Full wwPDB EM Validation Report

Mar 9, 2026 – 08:32 AM UTC

PDB ID	:	6BX0 / pdb_00006bx0
EMDB ID	:	EMD-7301
Title	:	Atomic resolution structure of human bufavirus 2
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2017-12-15
Resolution	:	3.79 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

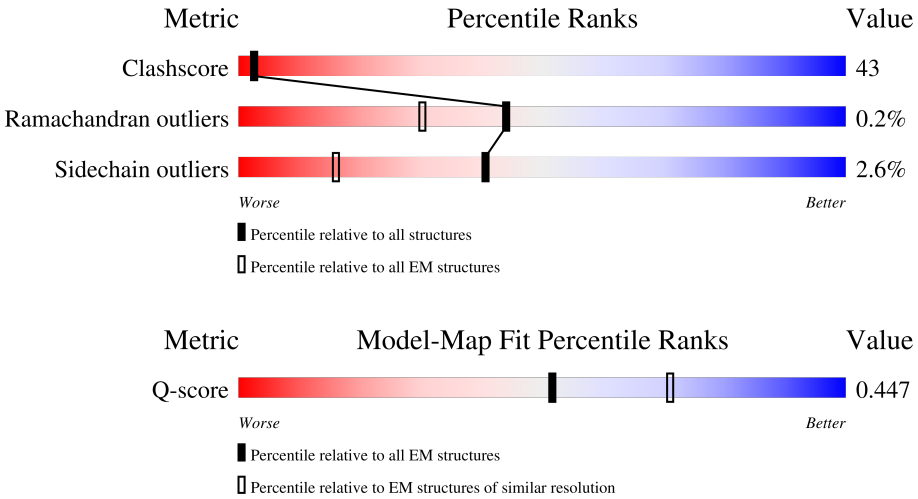
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 3.79 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10018 (3.29 - 4.29)

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	0	537	42% 54% .
1	1	537	43% 53% .
1	2	537	43% 53% .
1	3	537	43% 54% .

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Mol	Chain	Length	Quality of chain
1	4	537	43% 53%
1	5	537	42% 54%
1	6	537	43% 53%
1	7	537	42% 54%
1	A	537	43% 53%
1	B	537	42% 54%
1	C	537	42% 54%
1	D	537	42% 54%
1	E	537	42% 54%
1	F	537	43% 53%
1	G	537	43% 53%
1	H	537	42% 54%
1	I	537	42% 54%
1	J	537	43% 53%
1	K	537	42% 54%
1	L	537	42% 54%
1	M	537	42% 54%
1	N	537	42% 54%
1	O	537	42% 54%
1	P	537	42% 54%
1	Q	537	42% 54%
1	R	537	43% 53%
1	S	537	43% 53%
1	T	537	43% 53%
1	U	537	43% 53%

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Mol	Chain	Length	Quality of chain
1	V	537	42% 54%
1	W	537	43% 53%
1	X	537	43% 53%
1	Y	537	43% 54%
1	Z	537	43% 54%
1	a	537	42% 54%
1	b	537	42% 54%
1	c	537	43% 53%
1	d	537	42% 54%
1	e	537	42% 54%
1	f	537	43% 53%
1	g	537	43% 53%
1	h	537	42% 54%
1	i	537	43% 53%
1	j	537	43% 54%
1	k	537	42% 54%
1	l	537	43% 53%
1	m	537	42% 54%
1	n	537	42% 54%
1	o	537	43% 53%
1	p	537	42% 54%
1	q	537	43% 53%
1	r	537	43% 53%
1	s	537	42% 54%
1	t	537	42% 54%

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Mol	Chain	Length	Quality of chain
1	u	537	42% 54%
1	v	537	43% 53%
1	w	537	44% 53%
1	x	537	42% 54%
1	y	537	42% 54%
1	z	537	44% 53%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 259560 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	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	B	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	C	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	D	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	E	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	F	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	G	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	H	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	I	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	J	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	K	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	L	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	M	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	N	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	O	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	P	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	Q	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	S	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	T	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	U	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	V	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	W	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	X	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	Y	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	Z	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	0	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	1	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	2	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	3	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	4	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	5	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	a	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	b	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	c	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	d	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	e	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	f	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	h	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	i	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	j	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	k	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	l	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	m	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	n	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	o	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	p	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	q	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	r	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	s	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	t	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	u	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	v	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	w	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	x	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	y	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	z	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		
1	6	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		

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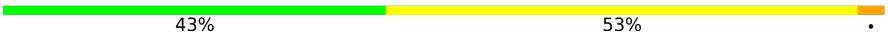
Mol	Chain	Residues	Atoms					AltConf	Trace
1	7	535	Total	C	N	O	S	0	0
			4326	2727	763	817	19		

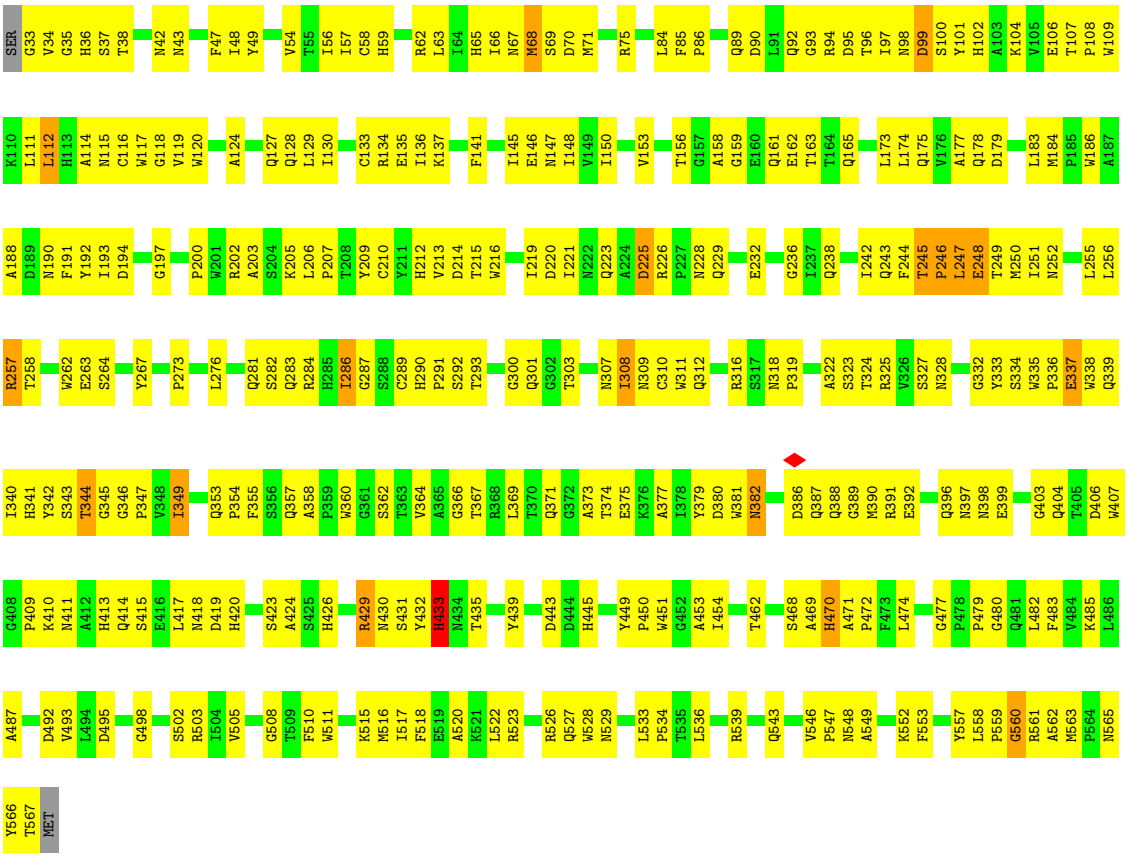
3 Residue-property plots (i)

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

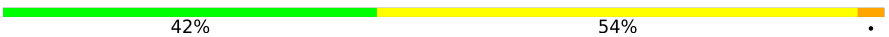
Chain A:

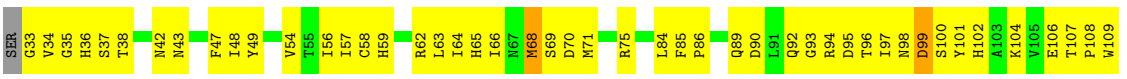


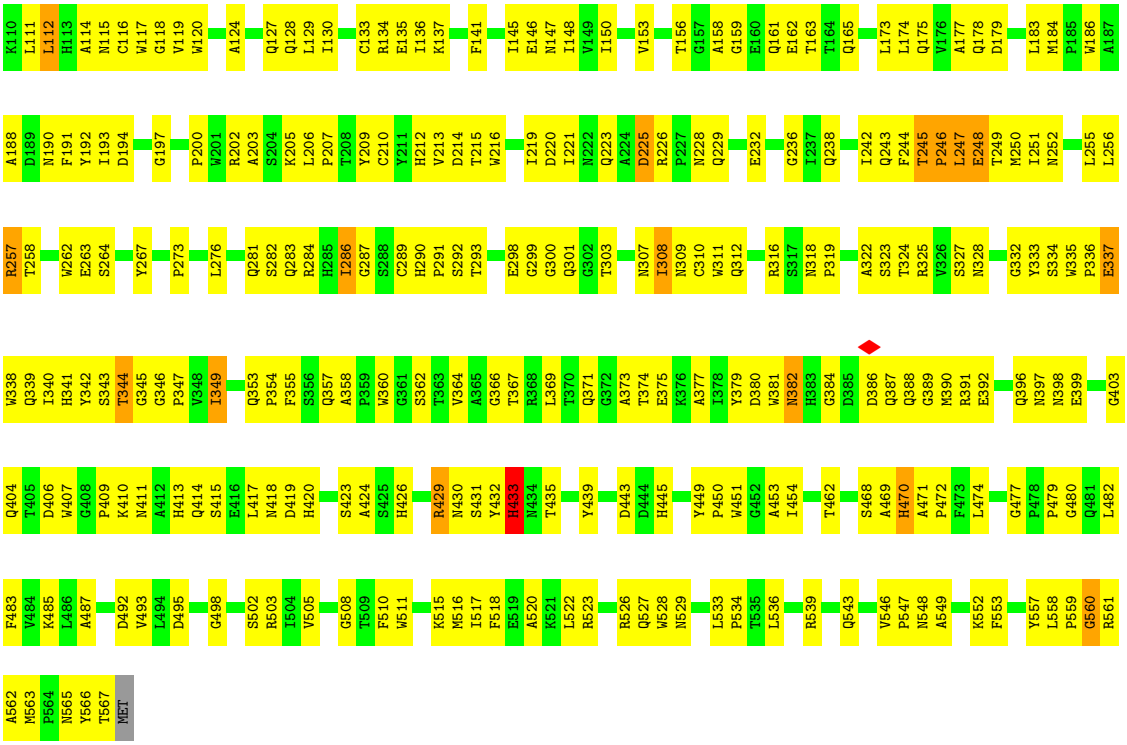


• Molecule 1: VP2

Chain B:

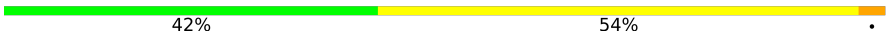


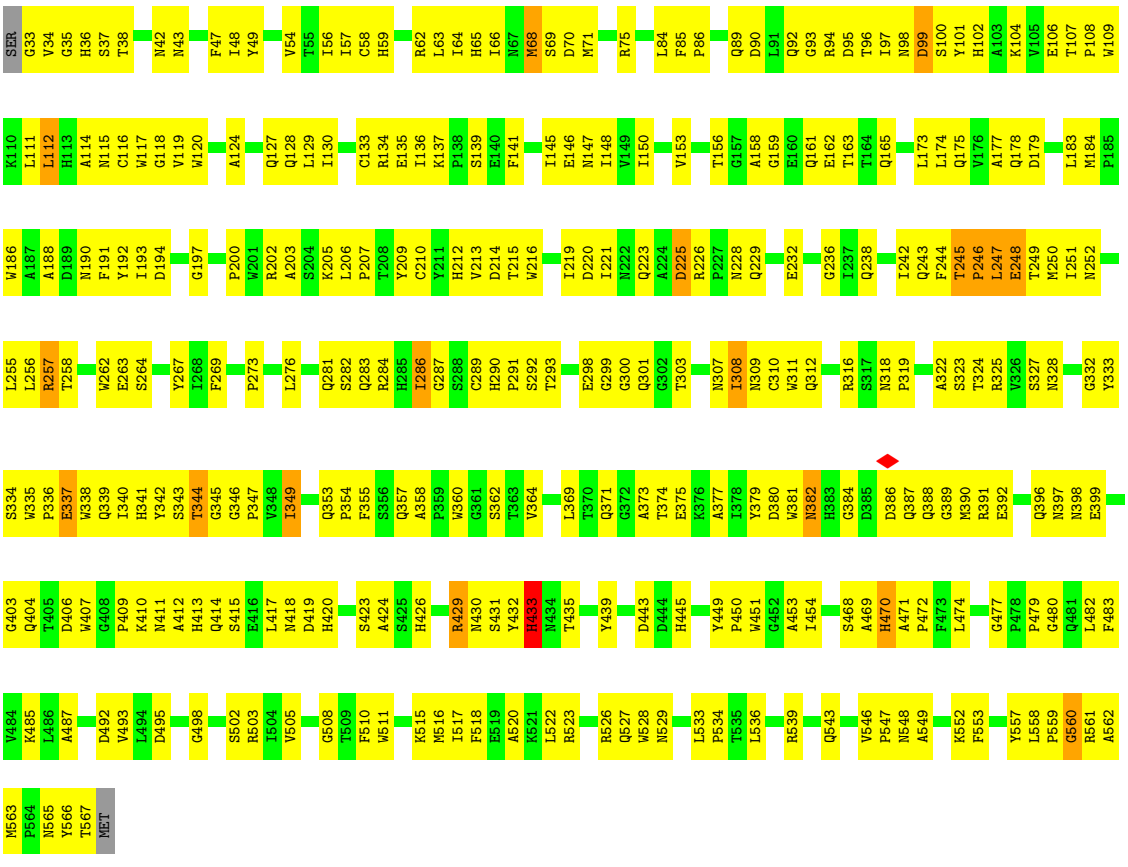




• Molecule 1: VP2

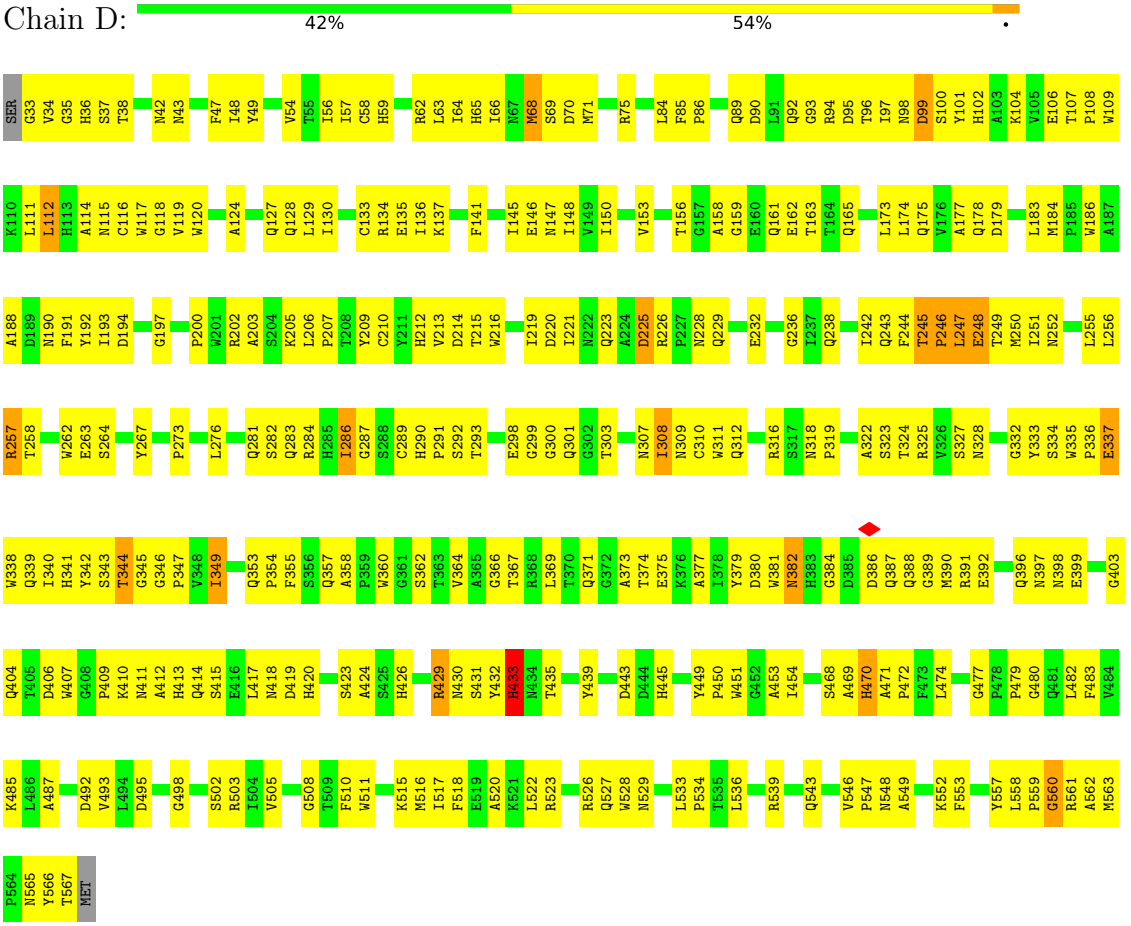
Chain C:





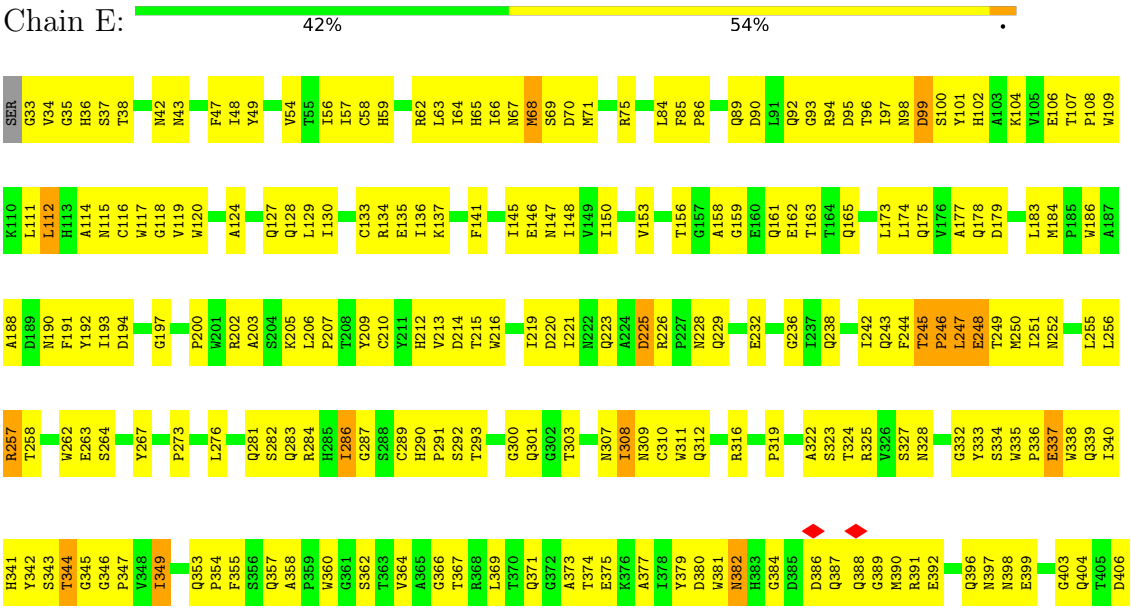
• Molecule 1: VP2

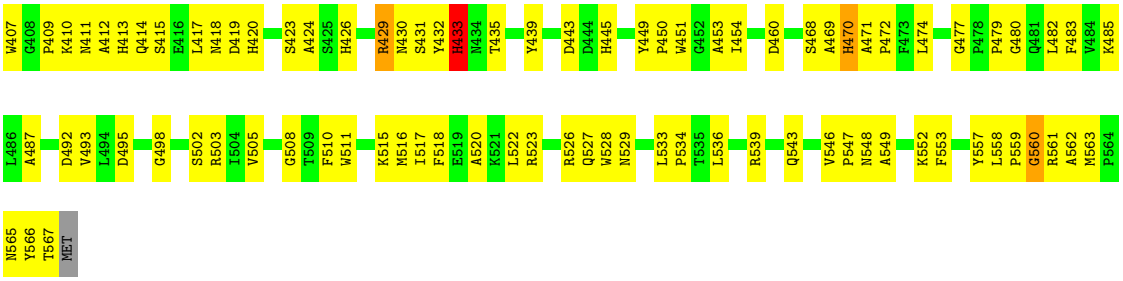
Chain D:



• Molecule 1: VP2

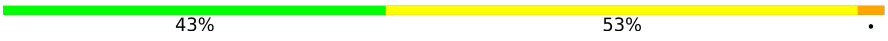
Chain E:

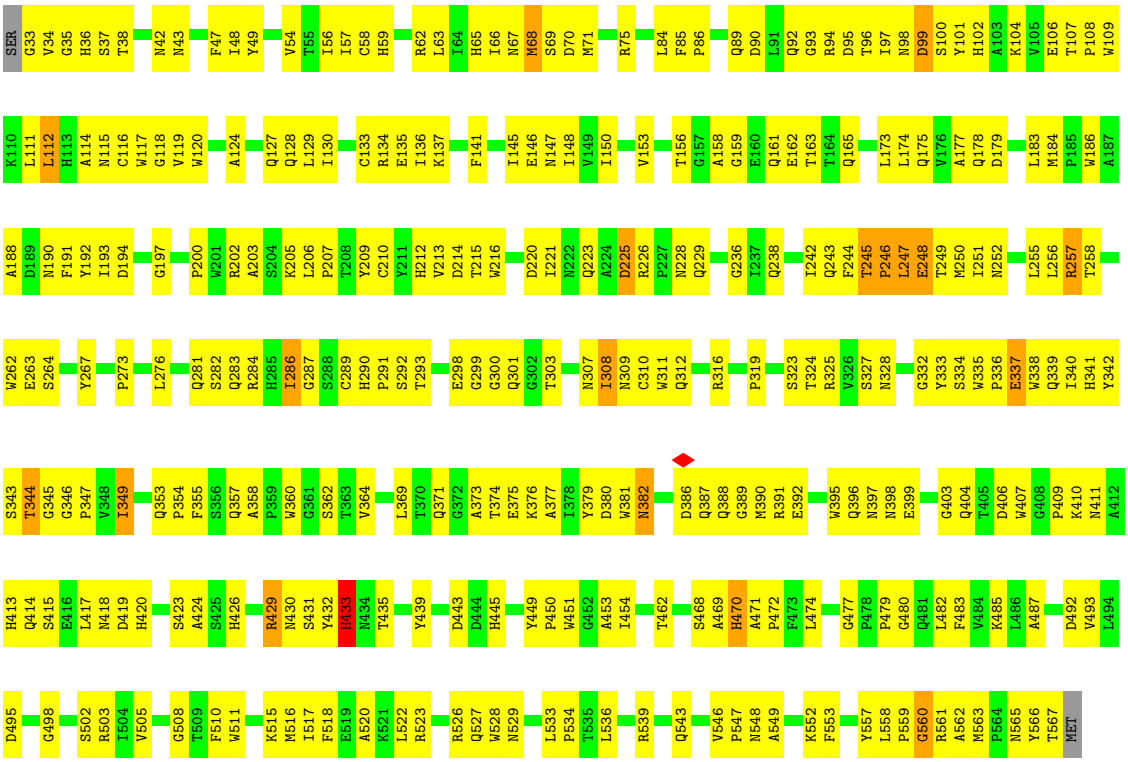




• Molecule 1: VP2

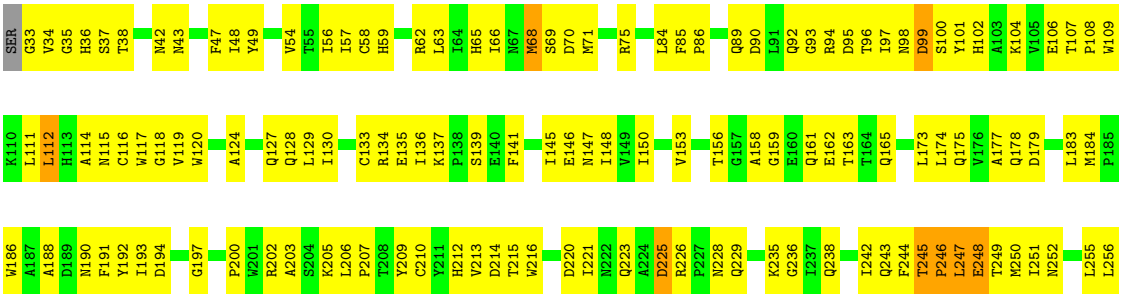
Chain F:

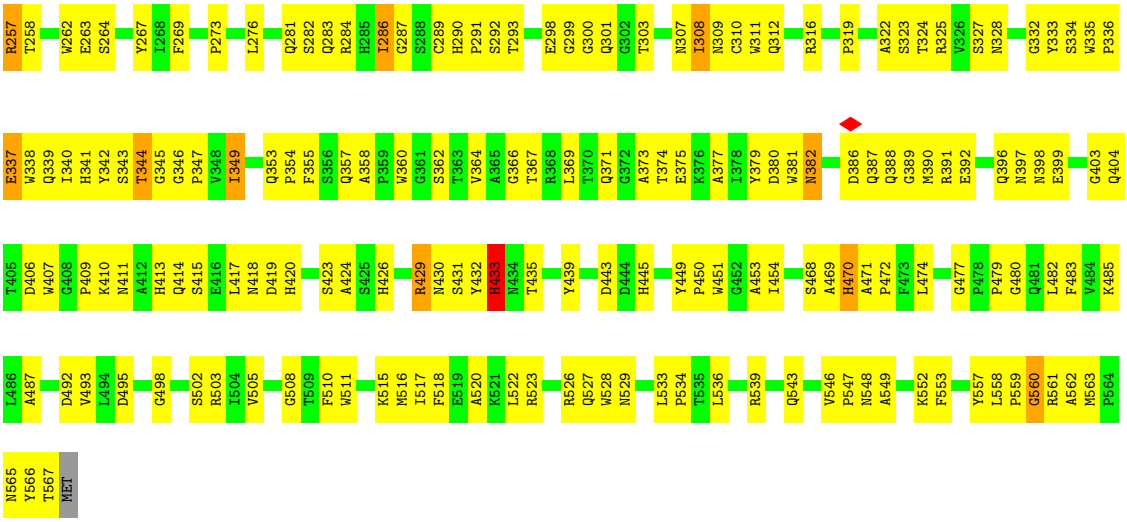




• Molecule 1: VP2

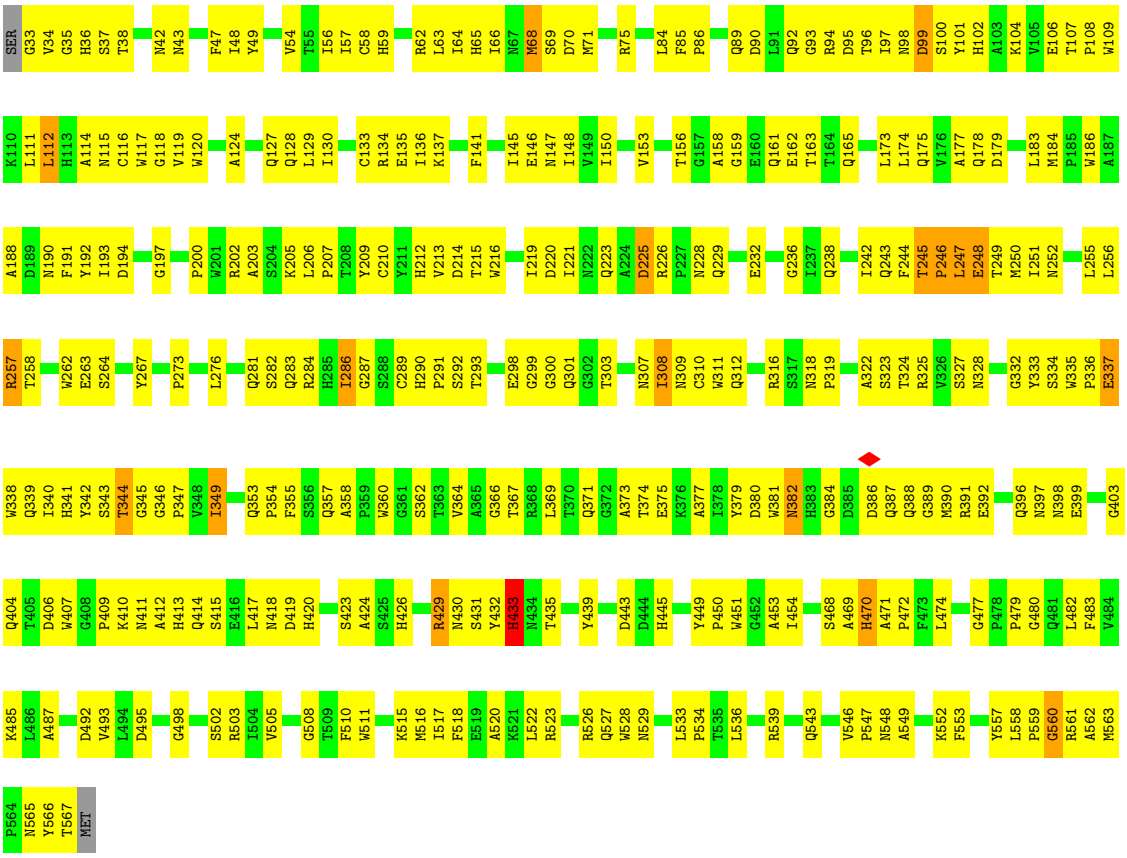
Chain G:





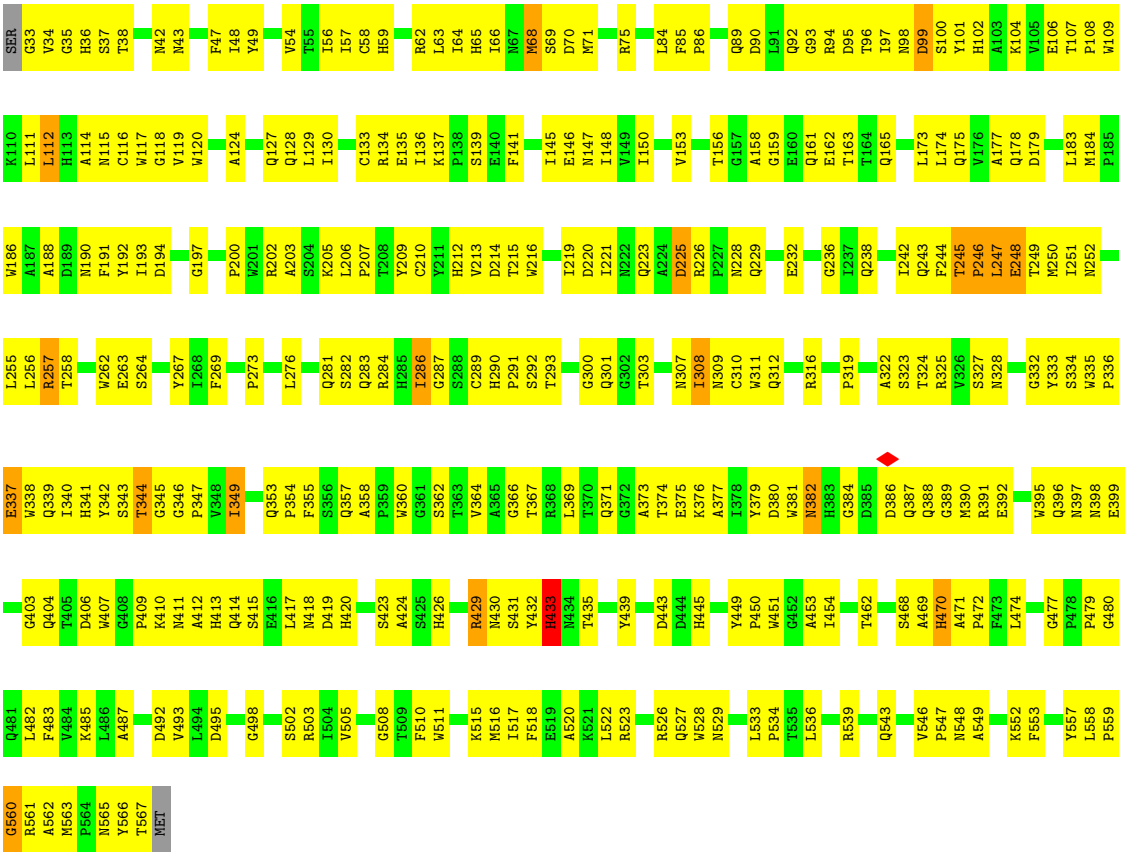
• Molecule 1: VP2

Chain H:



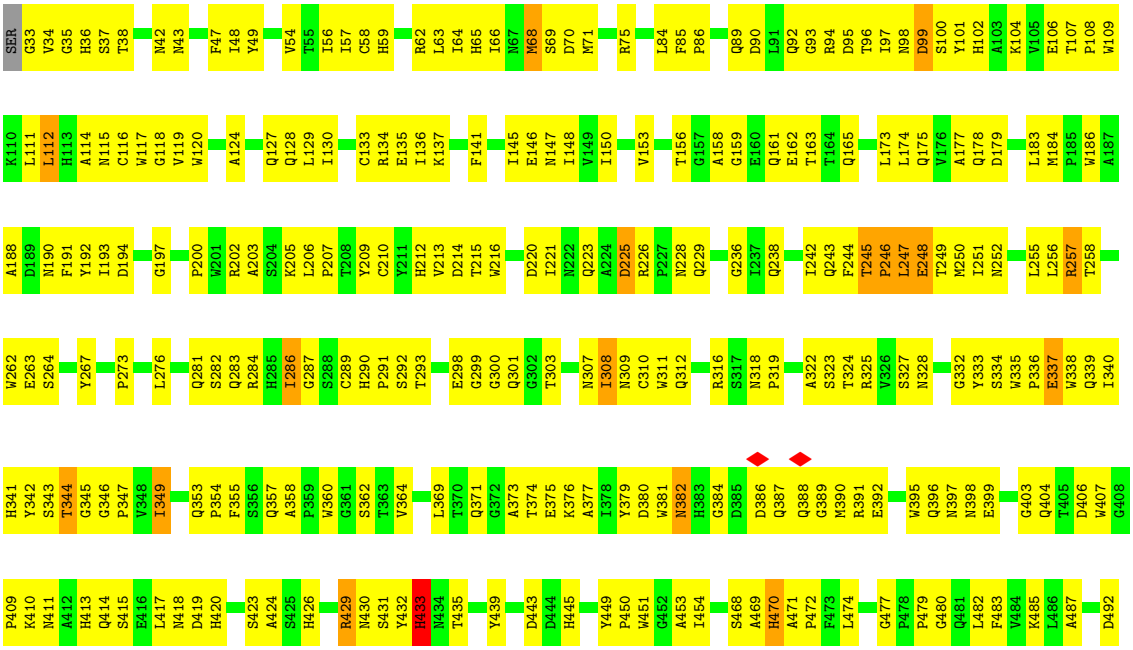
• Molecule 1: VP2

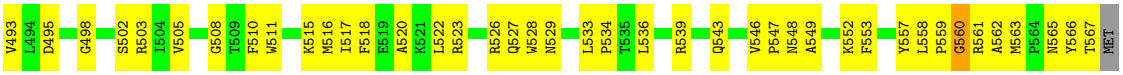
Chain I:



- Molecule 1: VP2

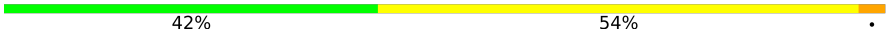
Chain J:

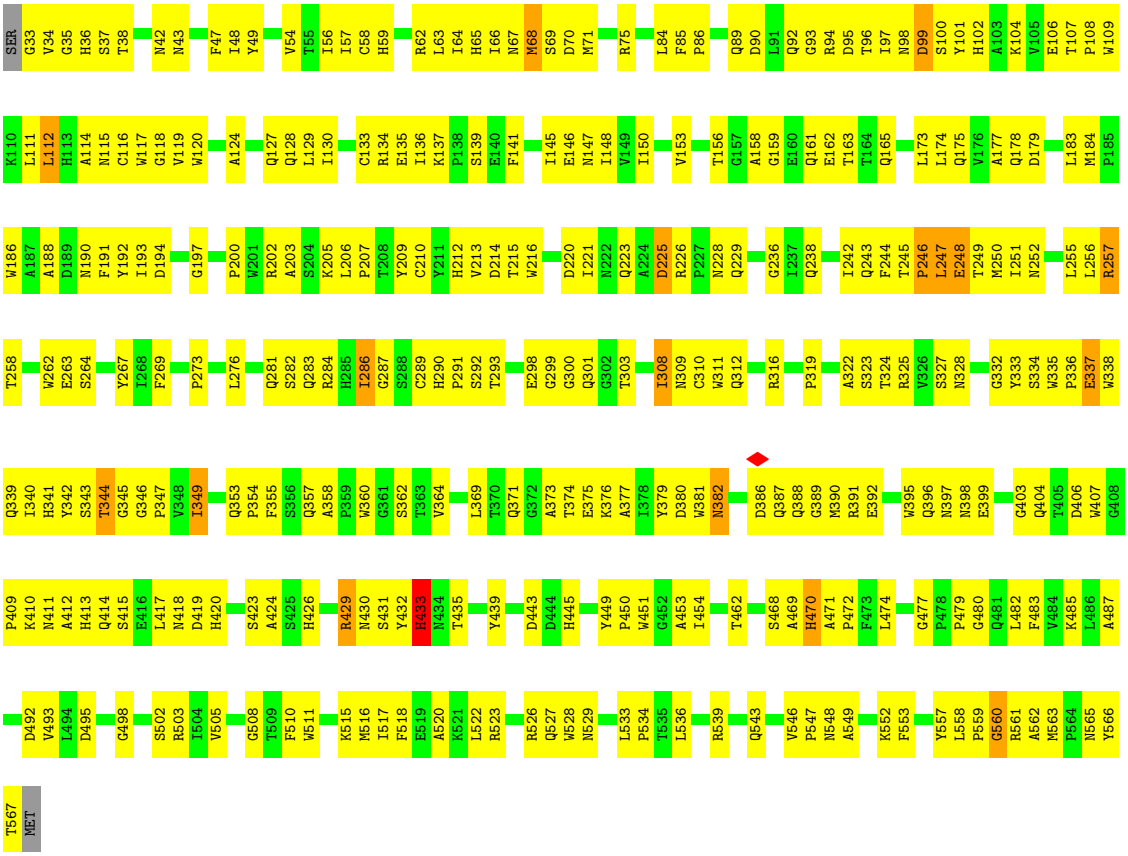




• Molecule 1: VP2

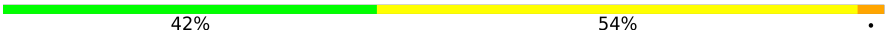
Chain K:

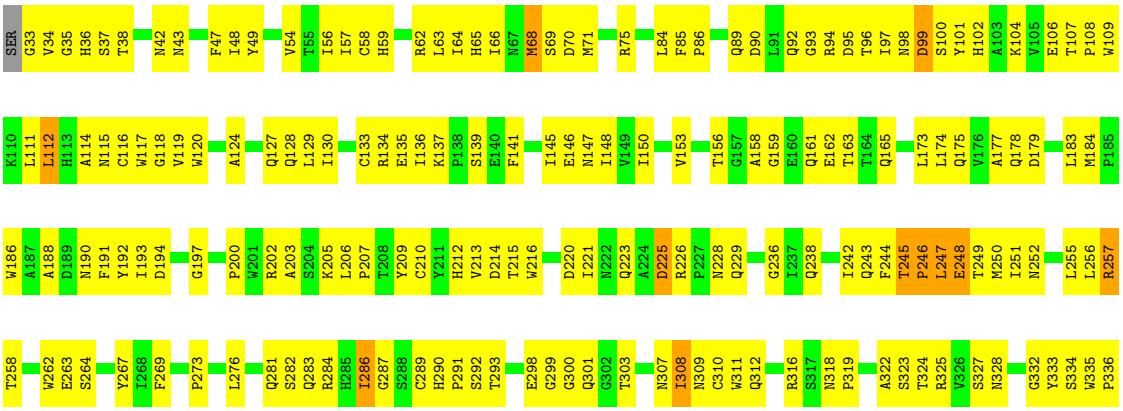


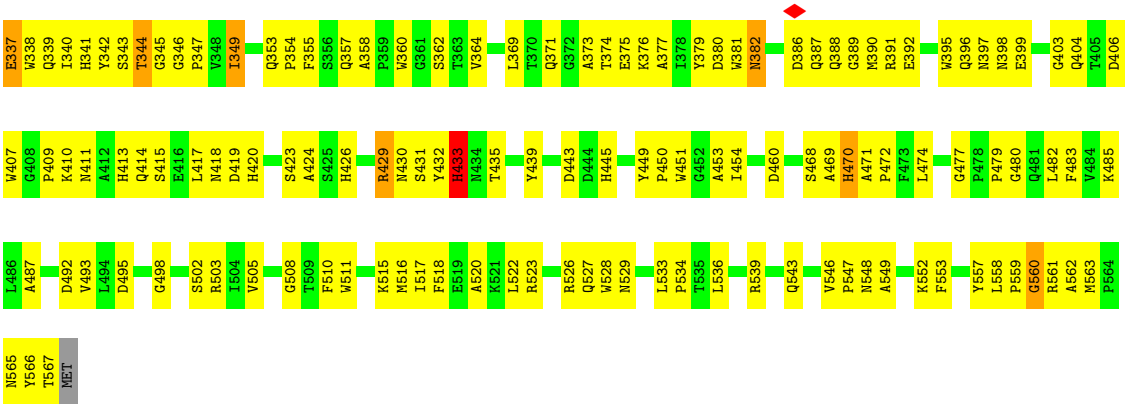


• Molecule 1: VP2

Chain L:

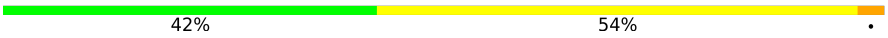


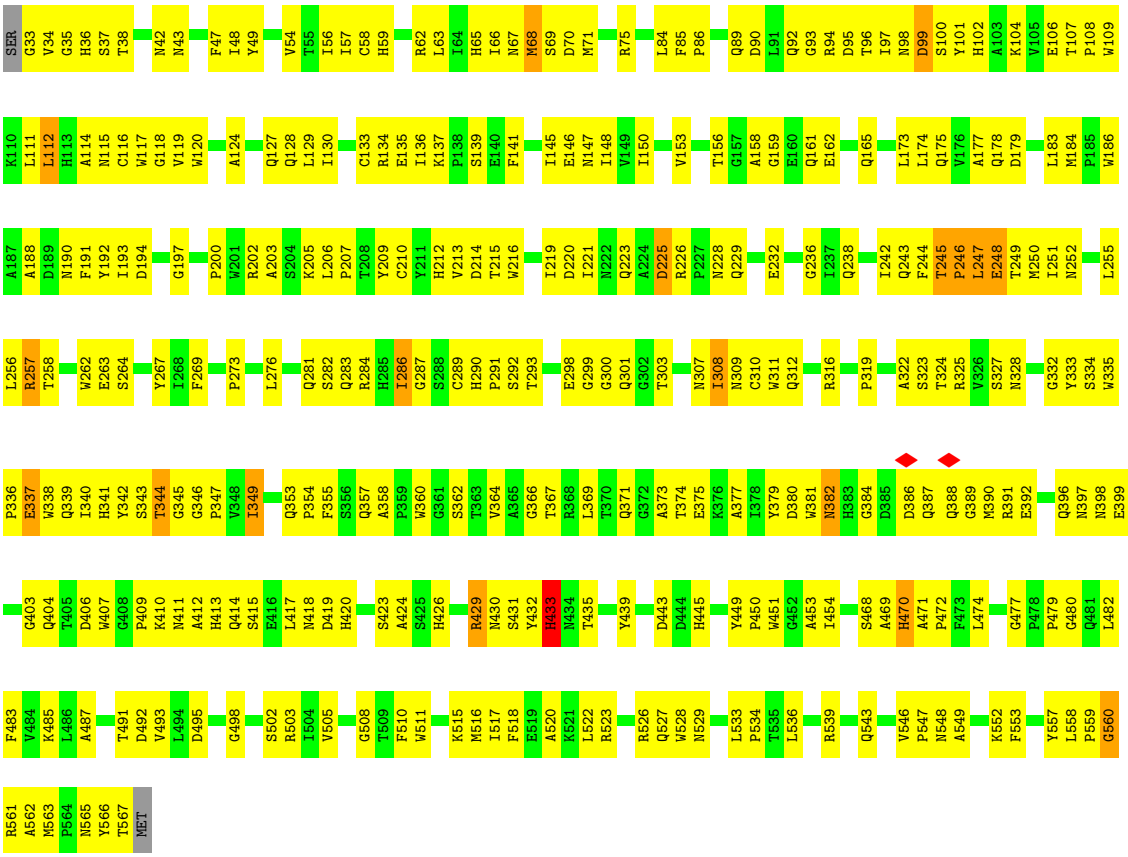




• Molecule 1: VP2

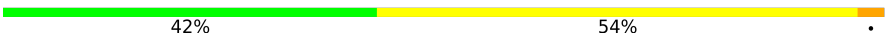
Chain M:

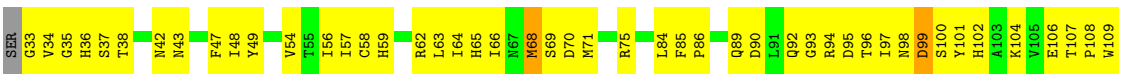


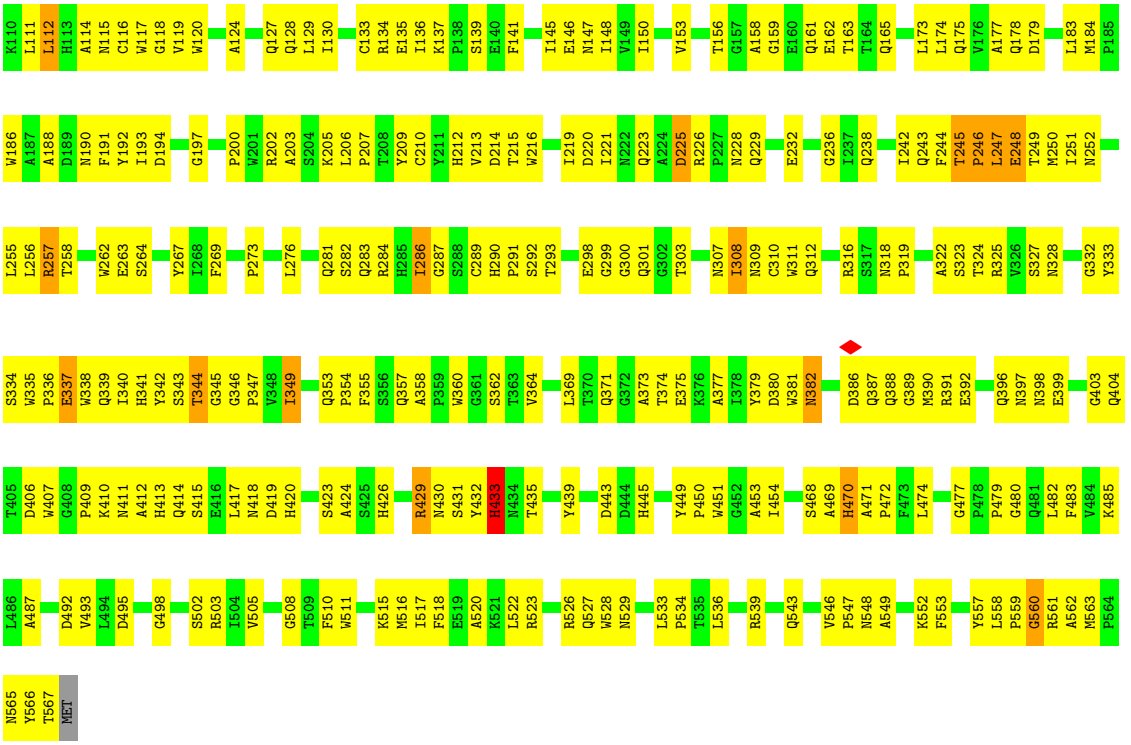


• Molecule 1: VP2

Chain N:

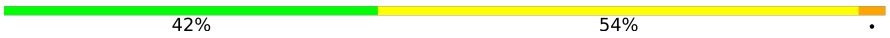


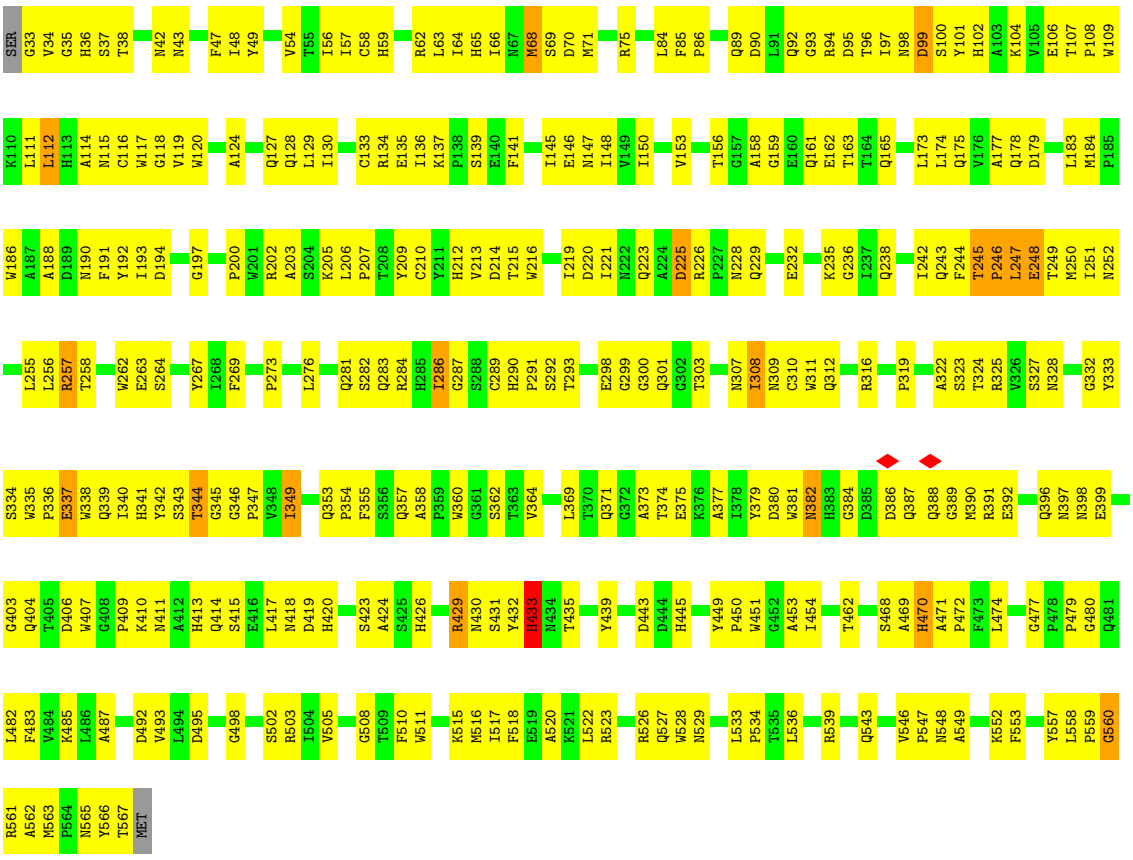




- Molecule 1: VP2

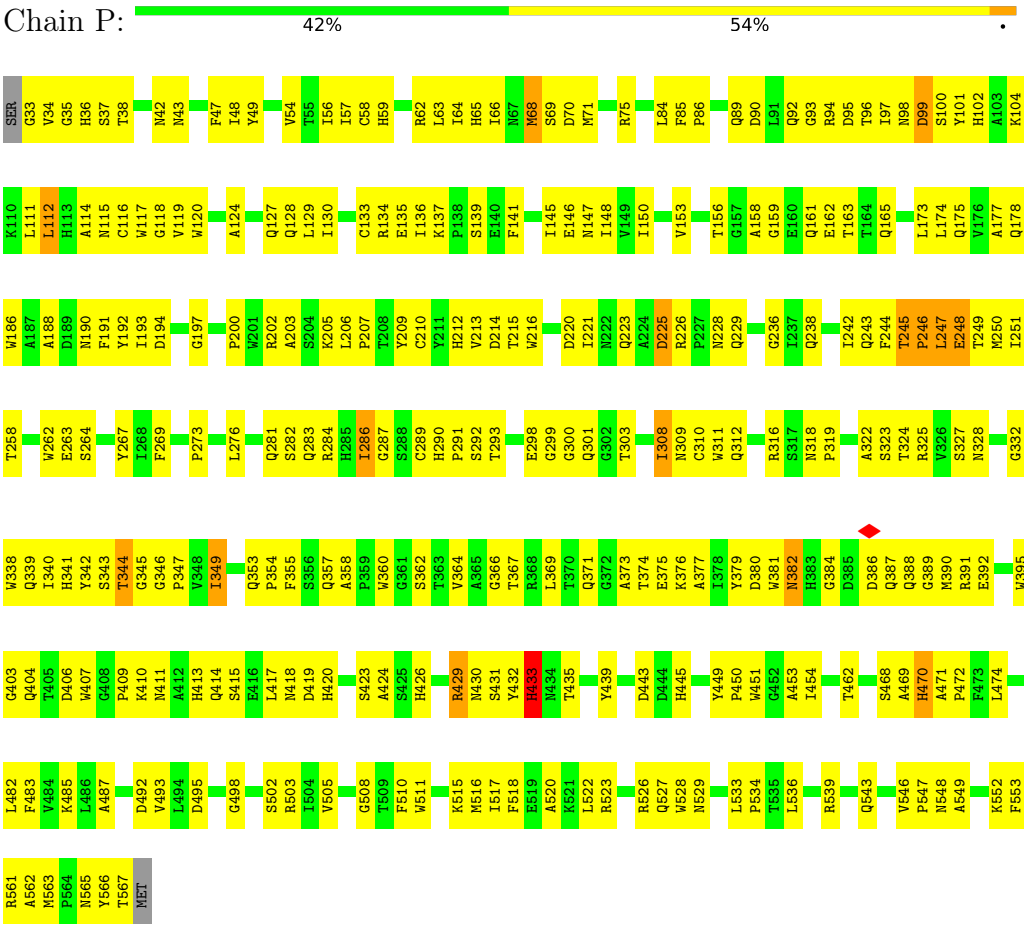
Chain O:





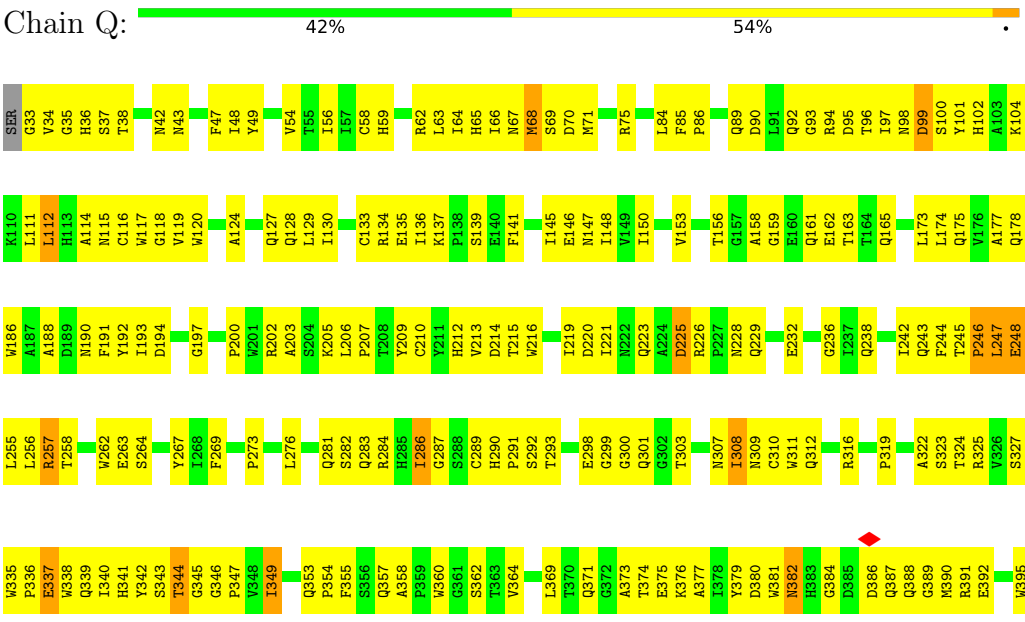
• Molecule 1: VP2

Chain P:



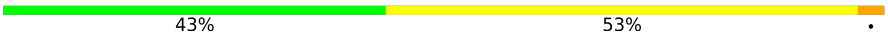
• Molecule 1: VP2

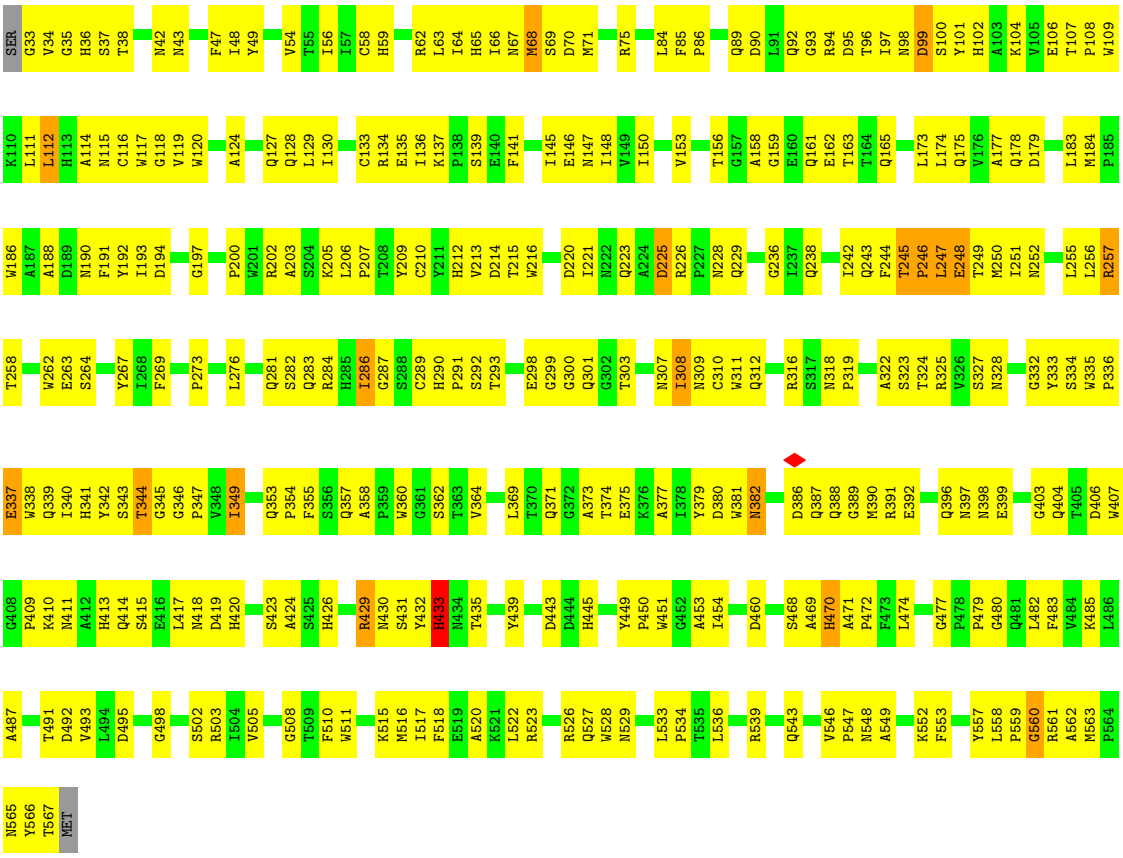
Chain Q:



• Molecule 1: VP2

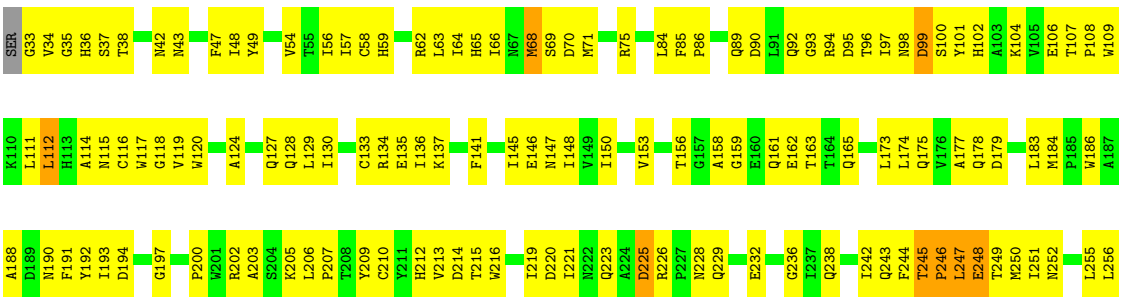
Chain R:

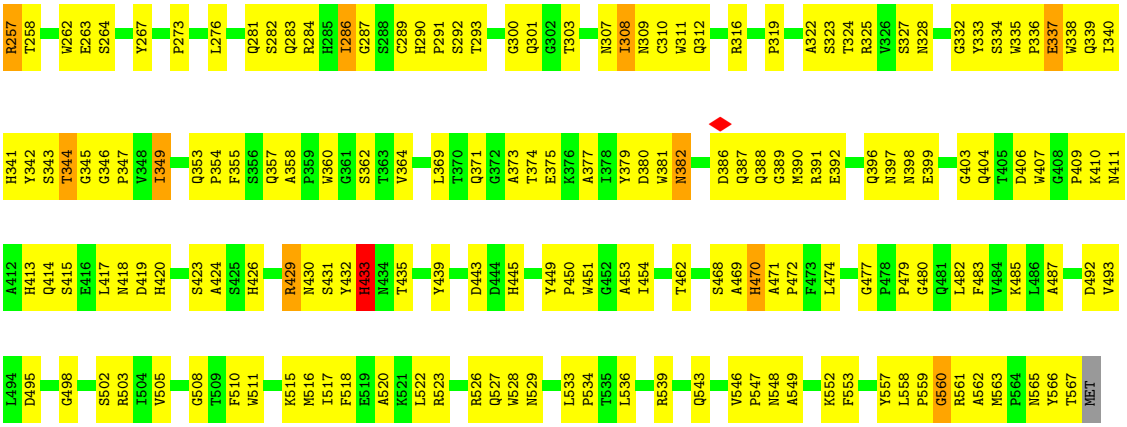




• Molecule 1: VP2

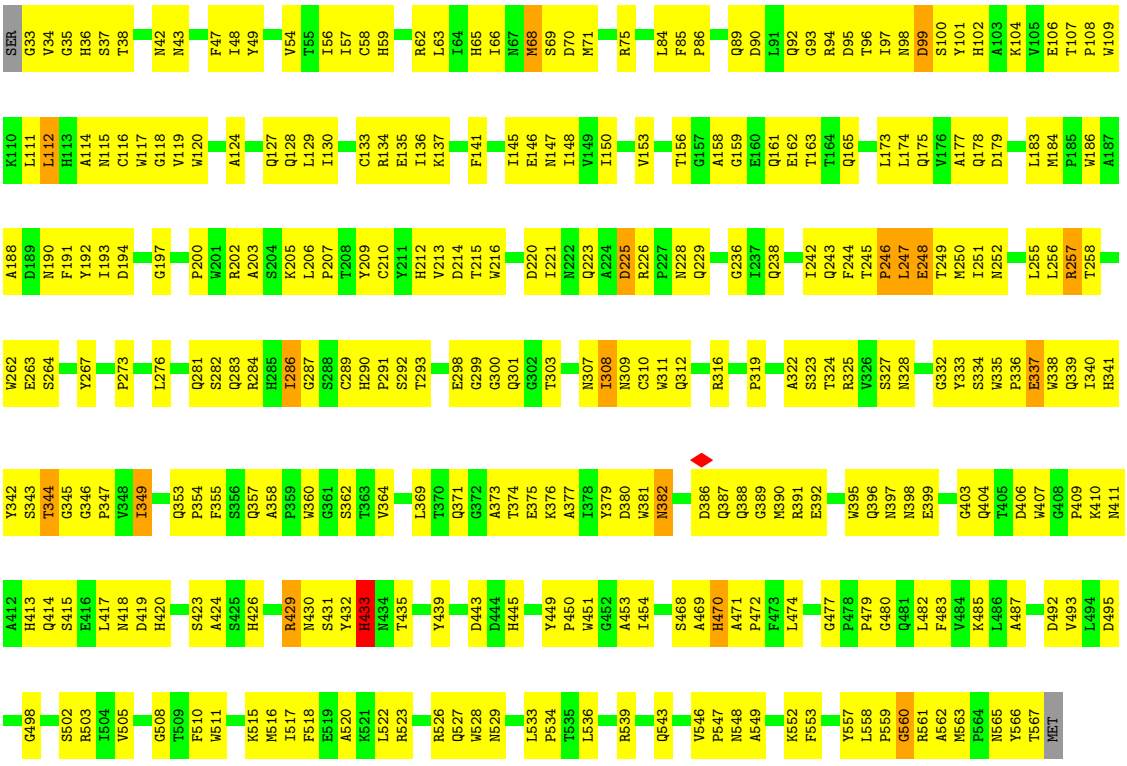
Chain S:





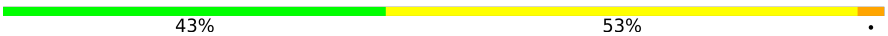
• Molecule 1: VP2

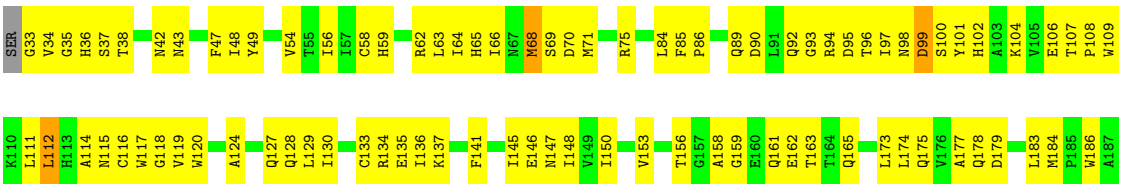
Chain T:

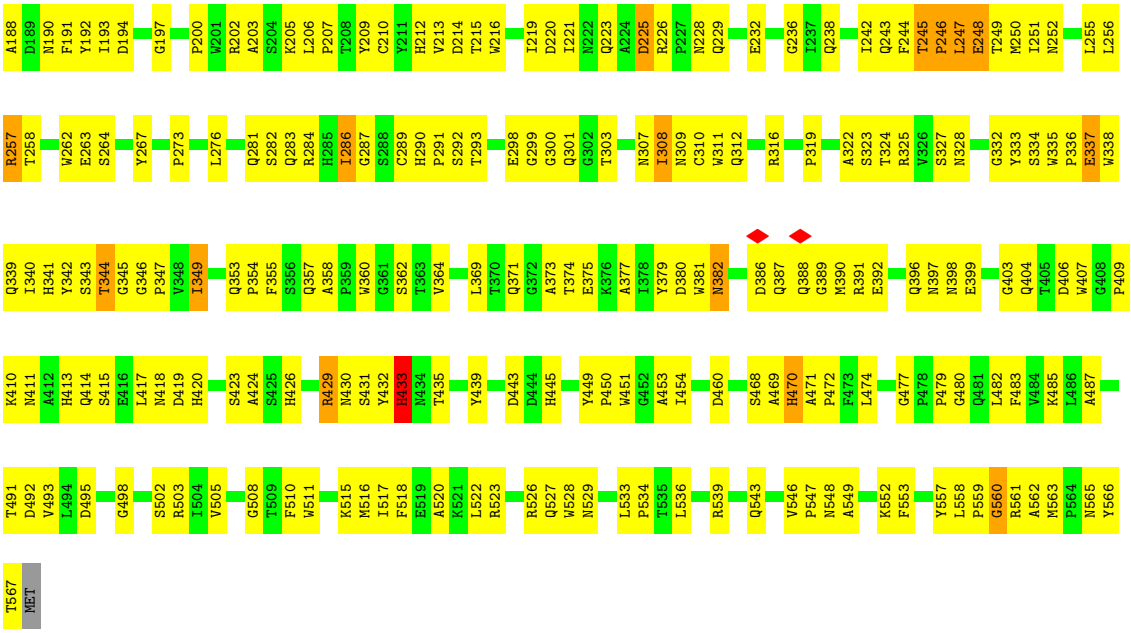


• Molecule 1: VP2

Chain U:

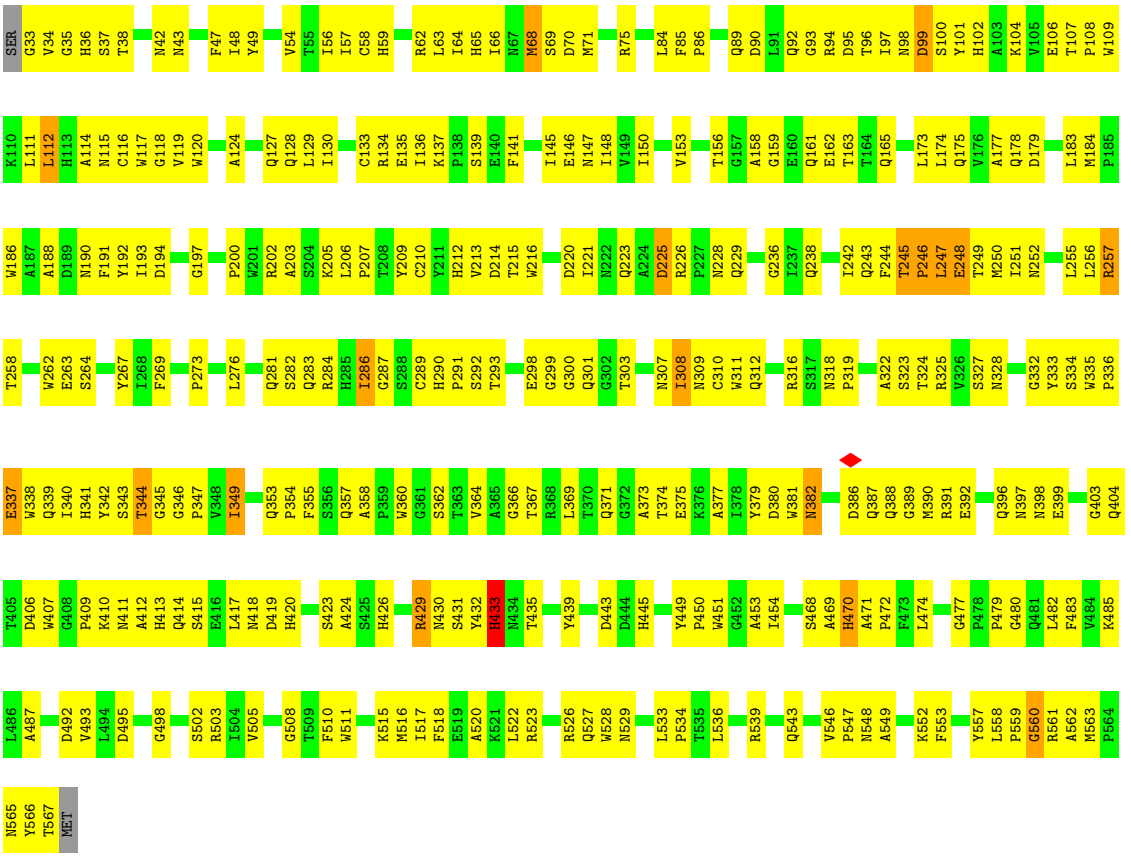






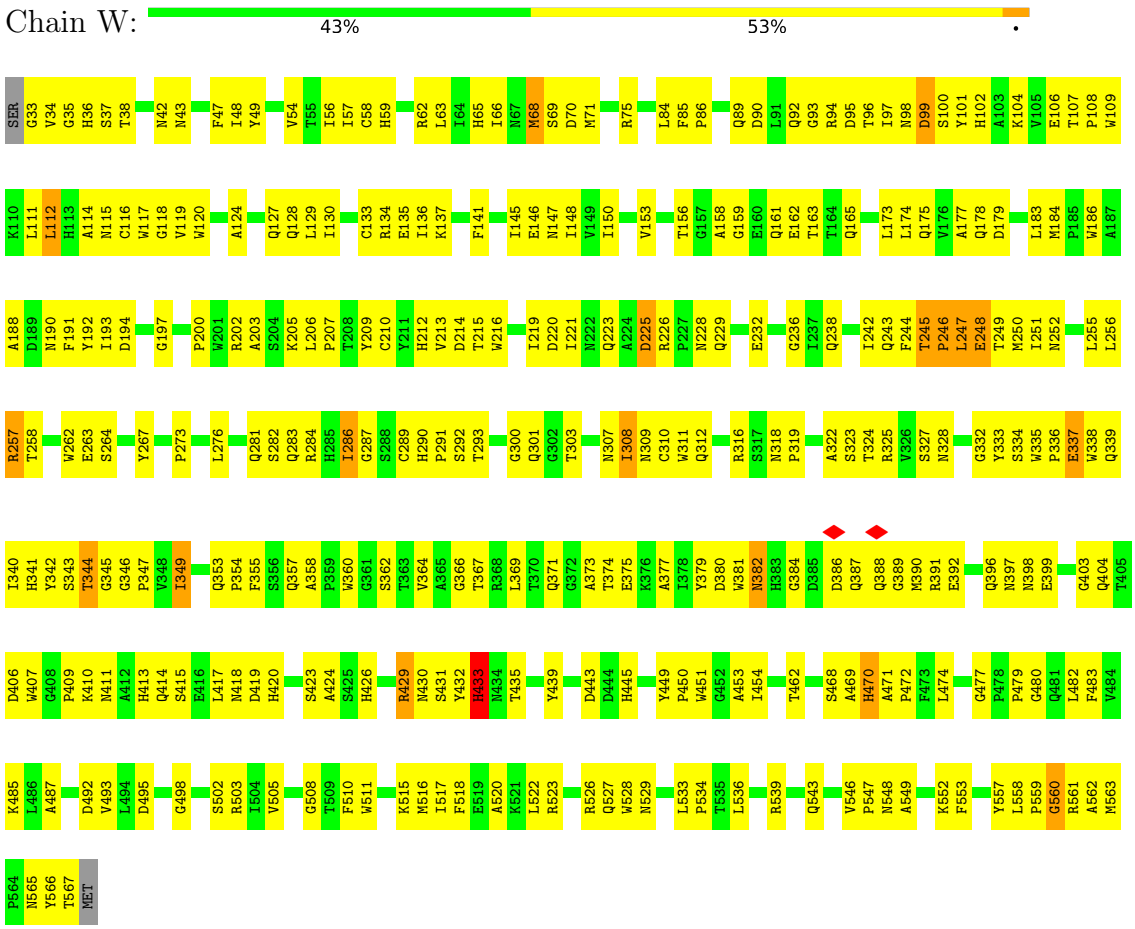
• Molecule 1: VP2

Chain V:



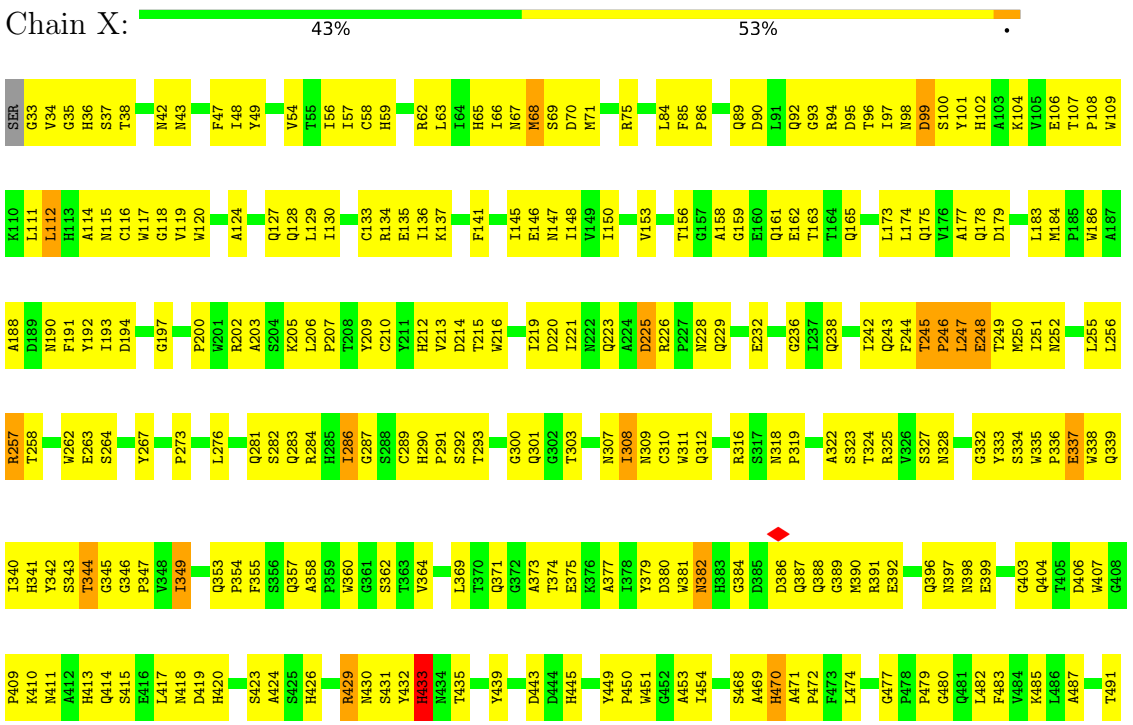
• Molecule 1: VP2

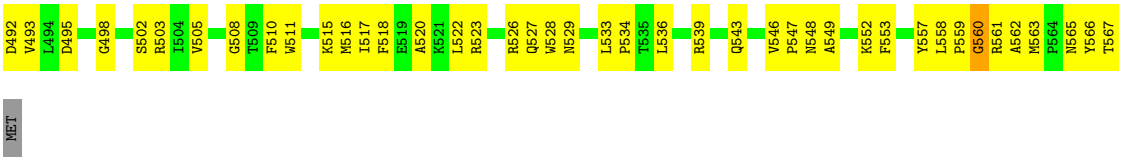
Chain W:



• Molecule 1: VP2

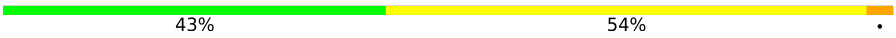
Chain X:

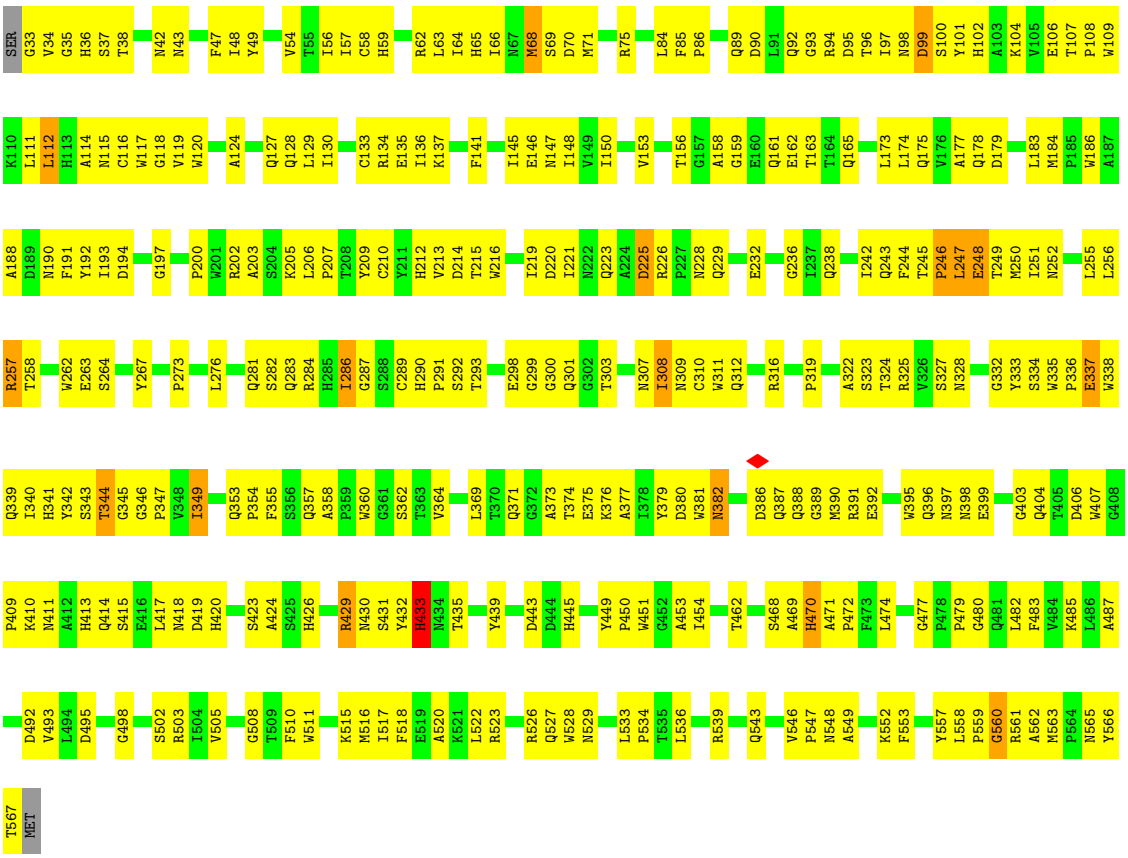




• Molecule 1: VP2

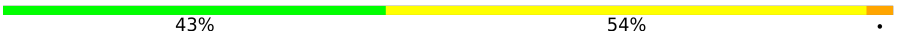
Chain Y:

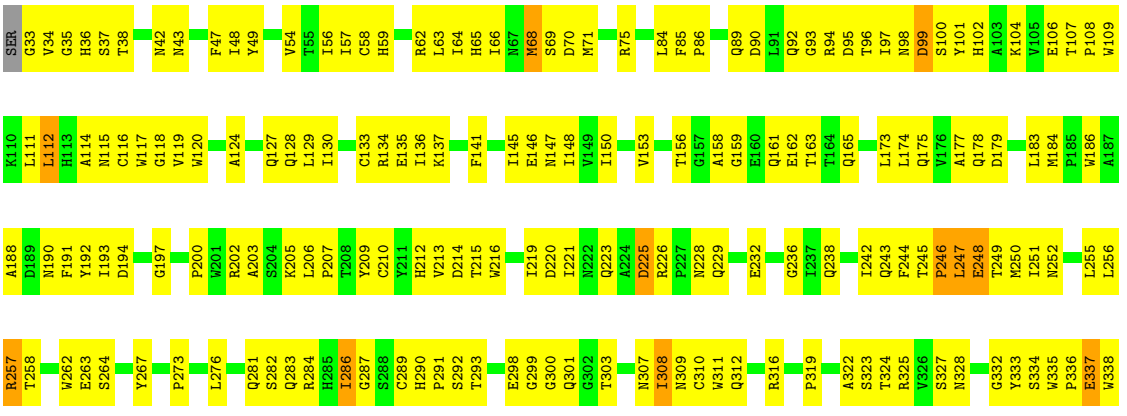


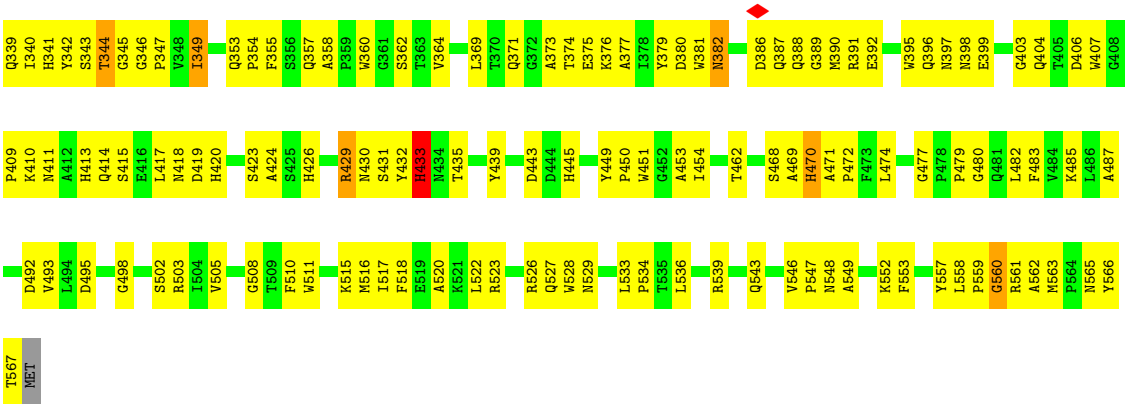


• Molecule 1: VP2

Chain Z:

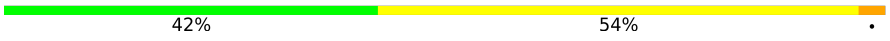


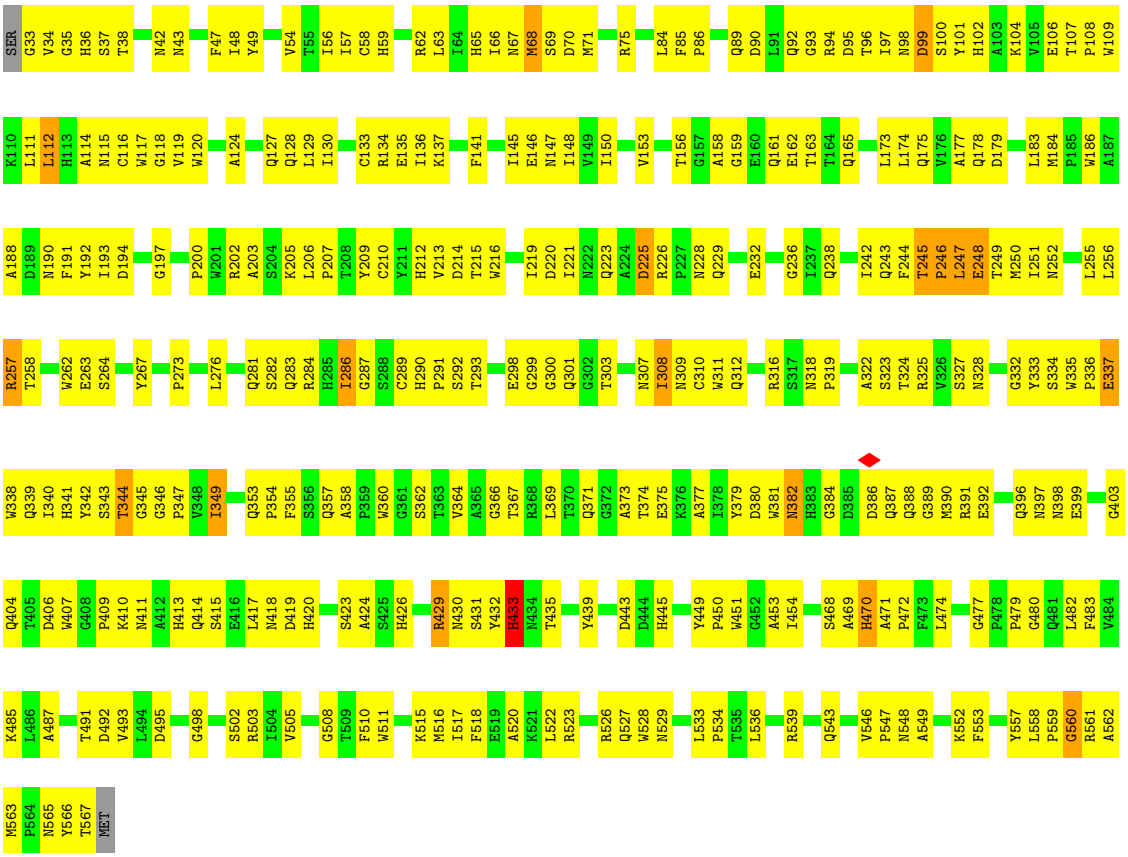




• Molecule 1: VP2

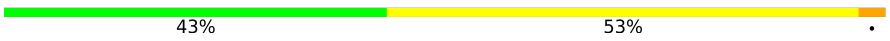
Chain 0:

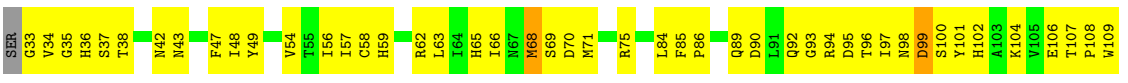


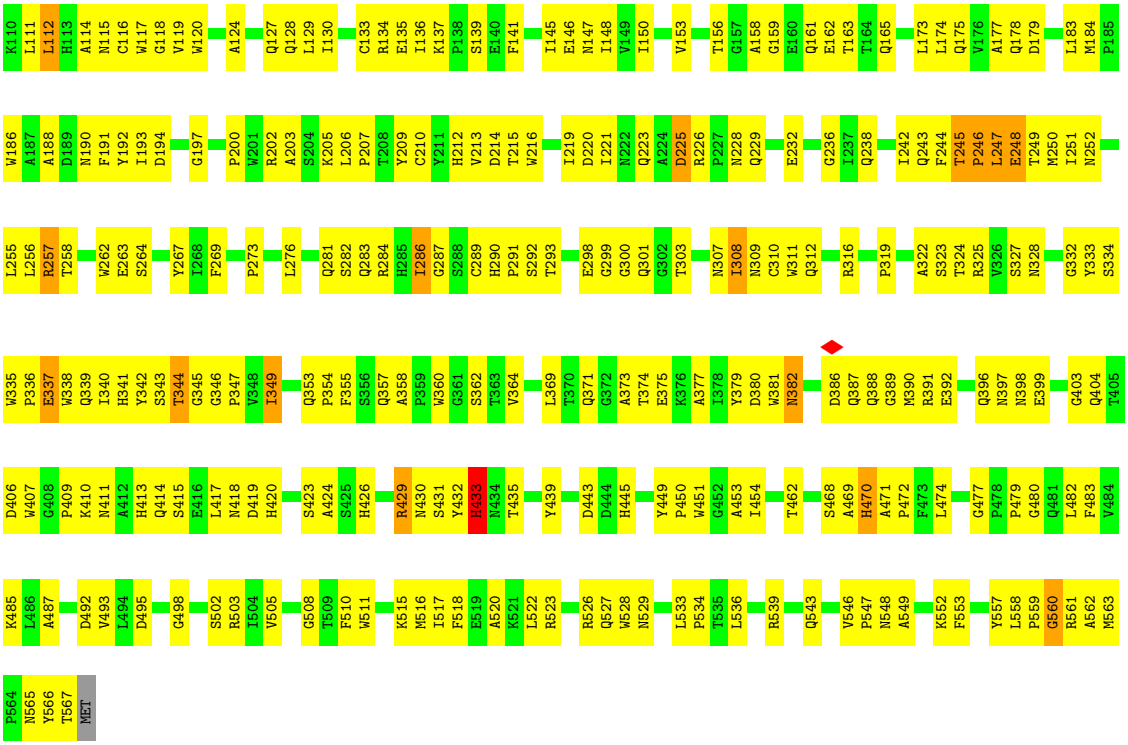


• Molecule 1: VP2

Chain 1:

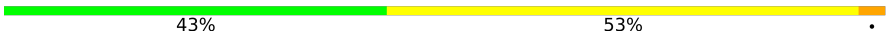


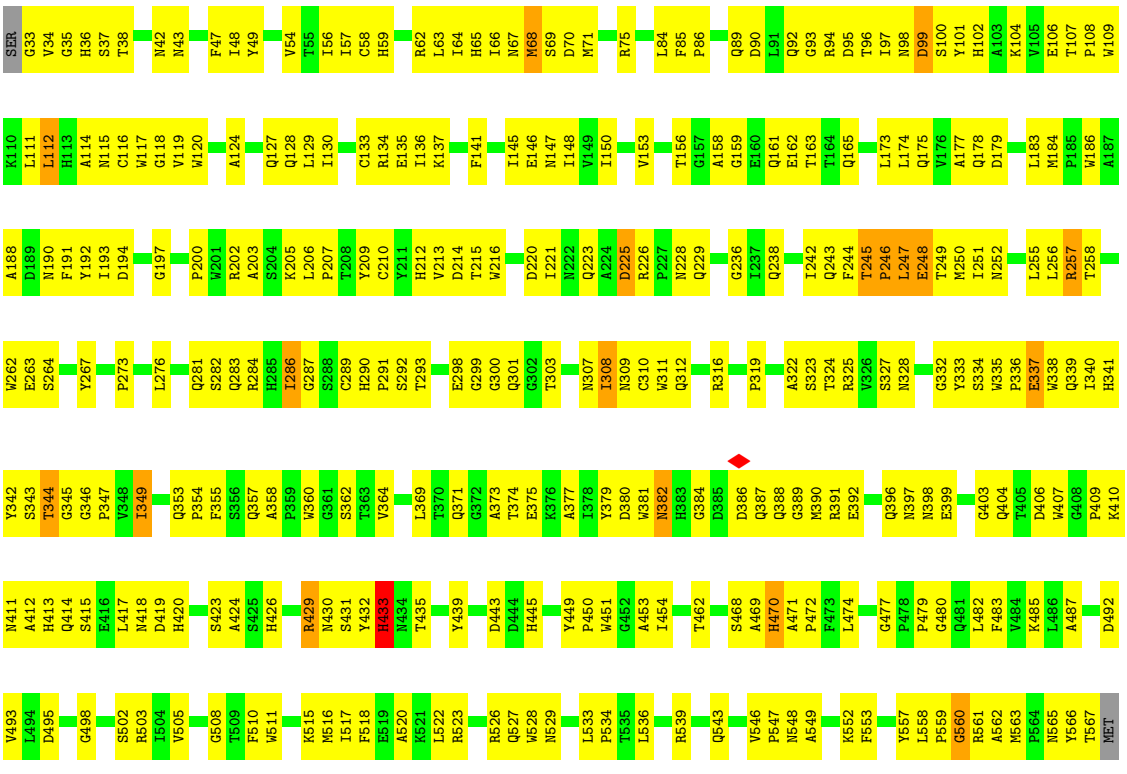




• Molecule 1: VP2

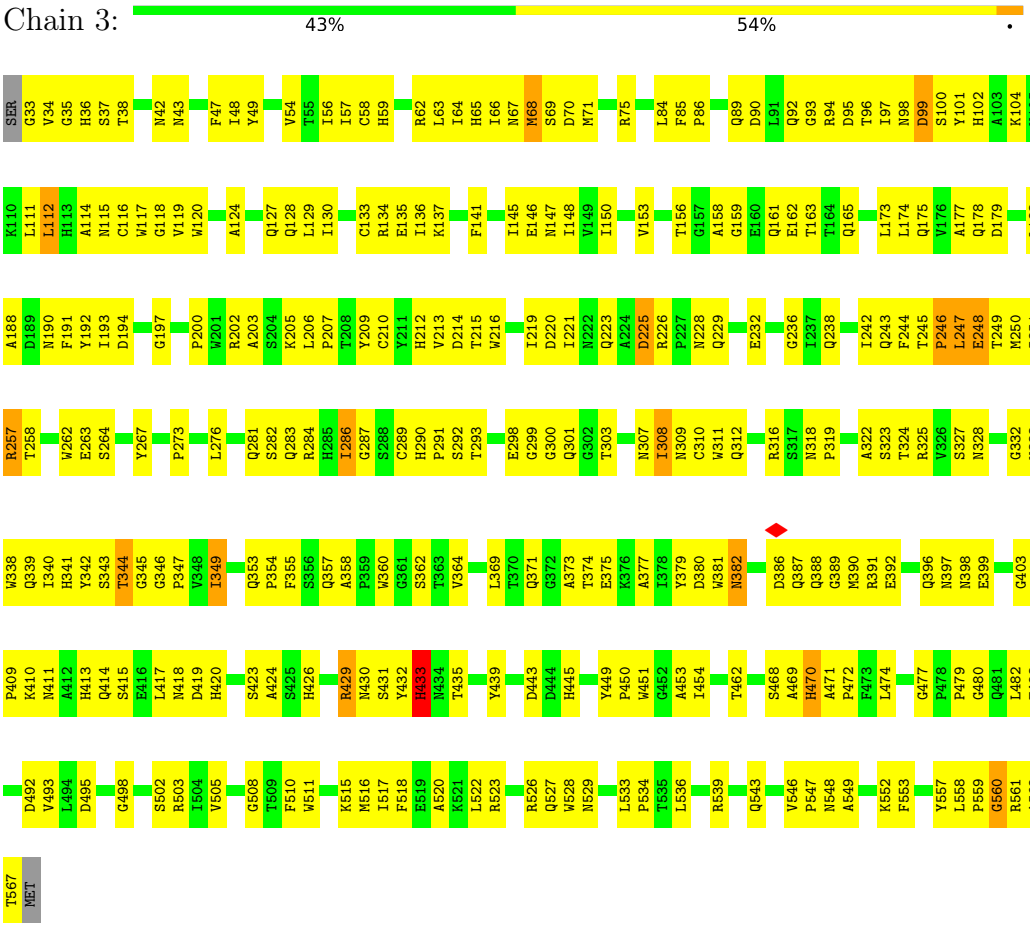
Chain 2:





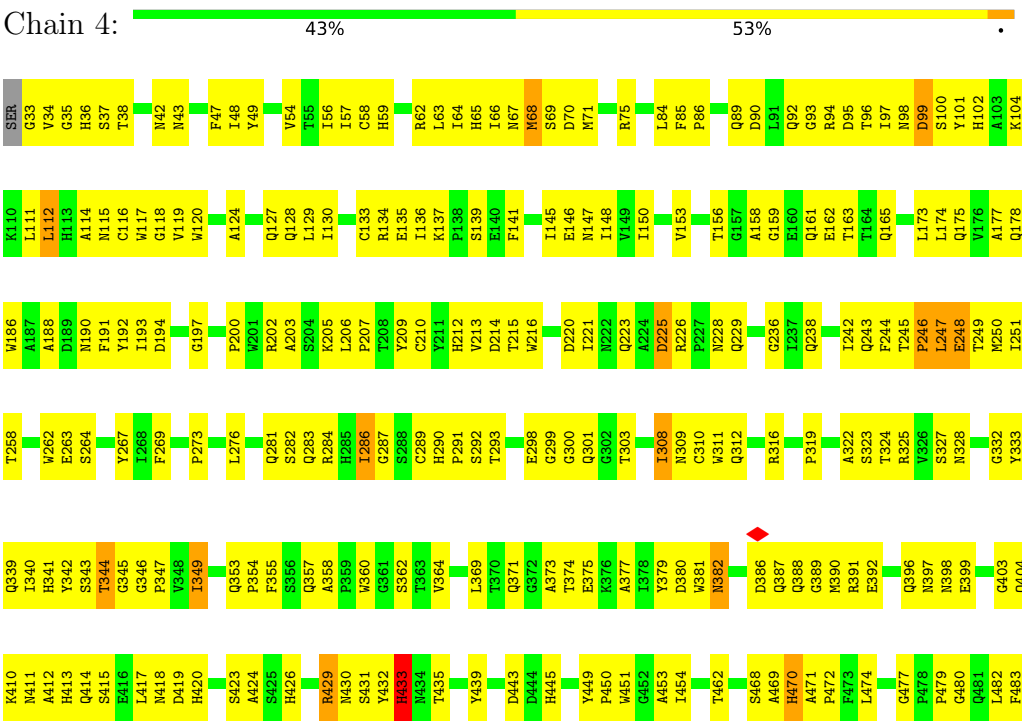
• Molecule 1: VP2

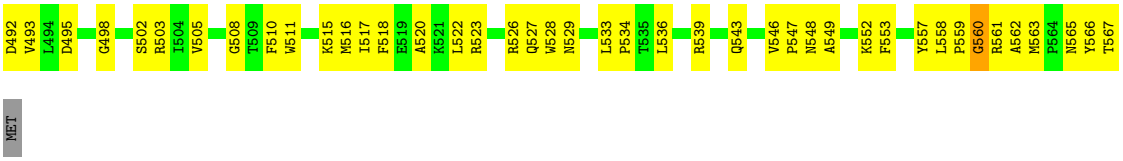
Chain 3:



• Molecule 1: VP2

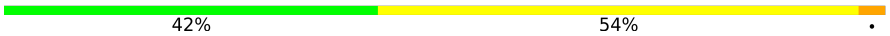
Chain 4:

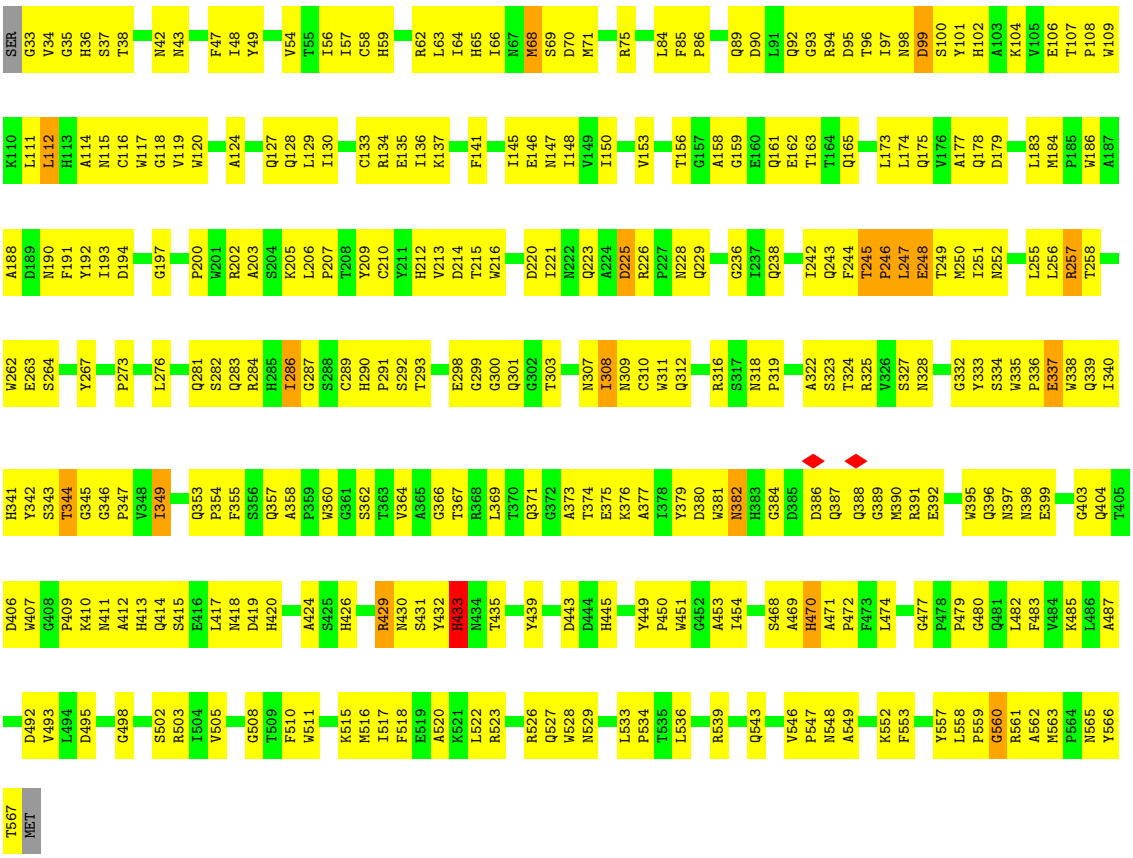




• Molecule 1: VP2

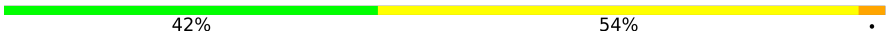
Chain 5:

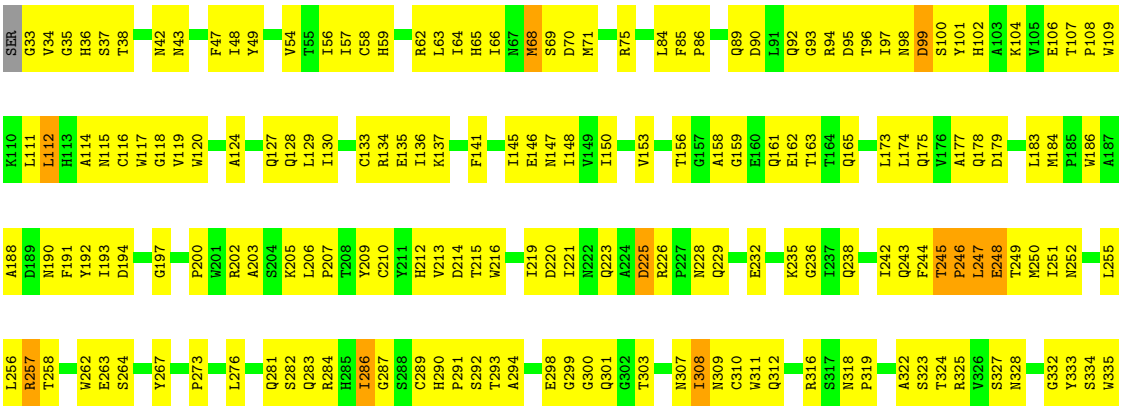


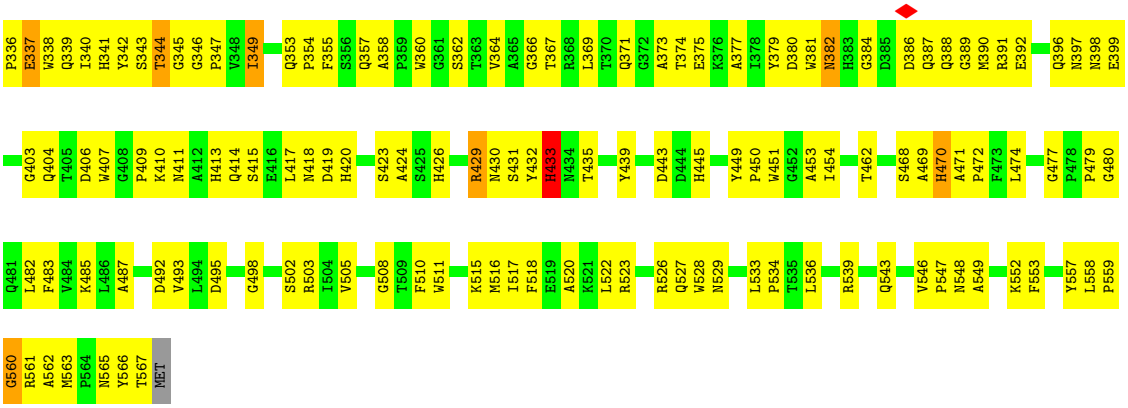


• Molecule 1: VP2

Chain a:

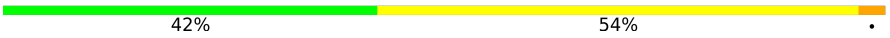


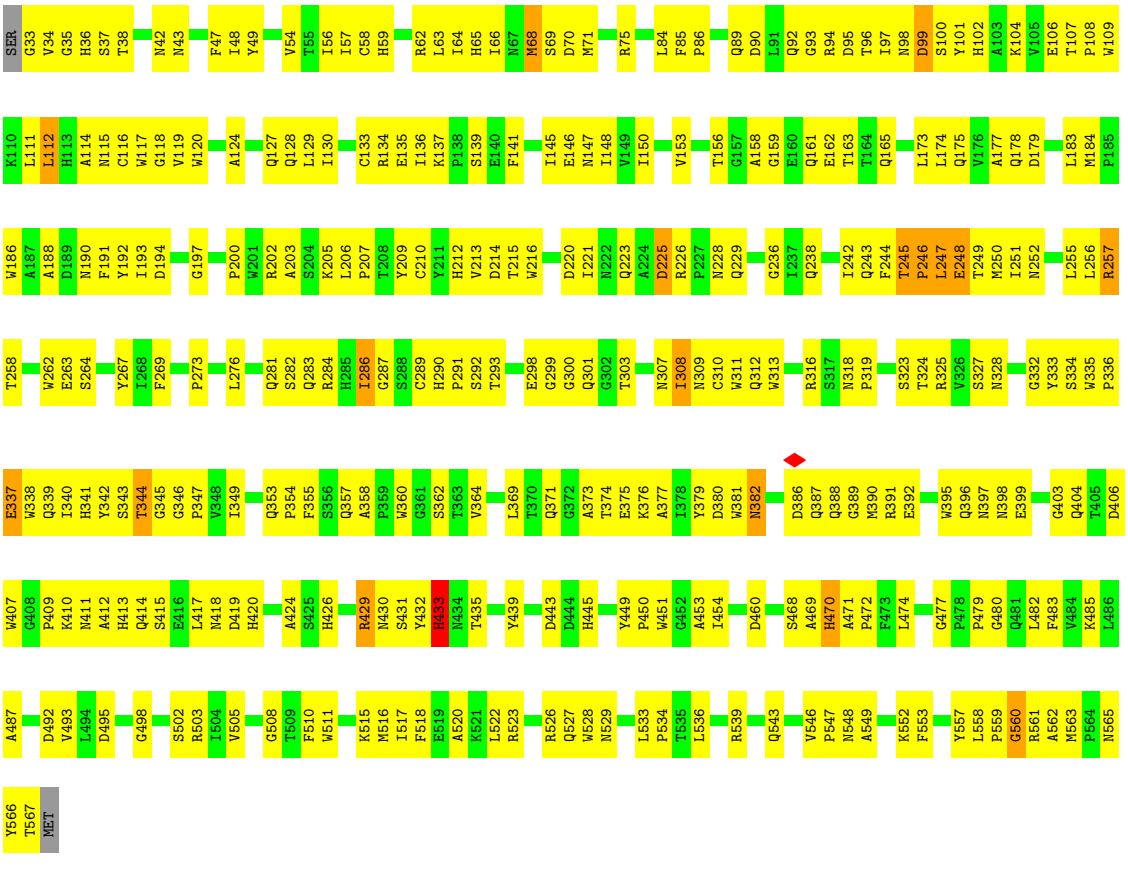




- Molecule 1: VP2

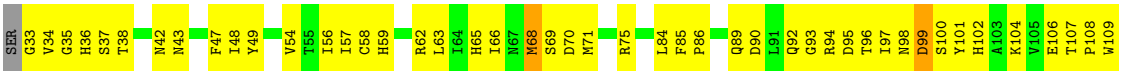
Chain b:

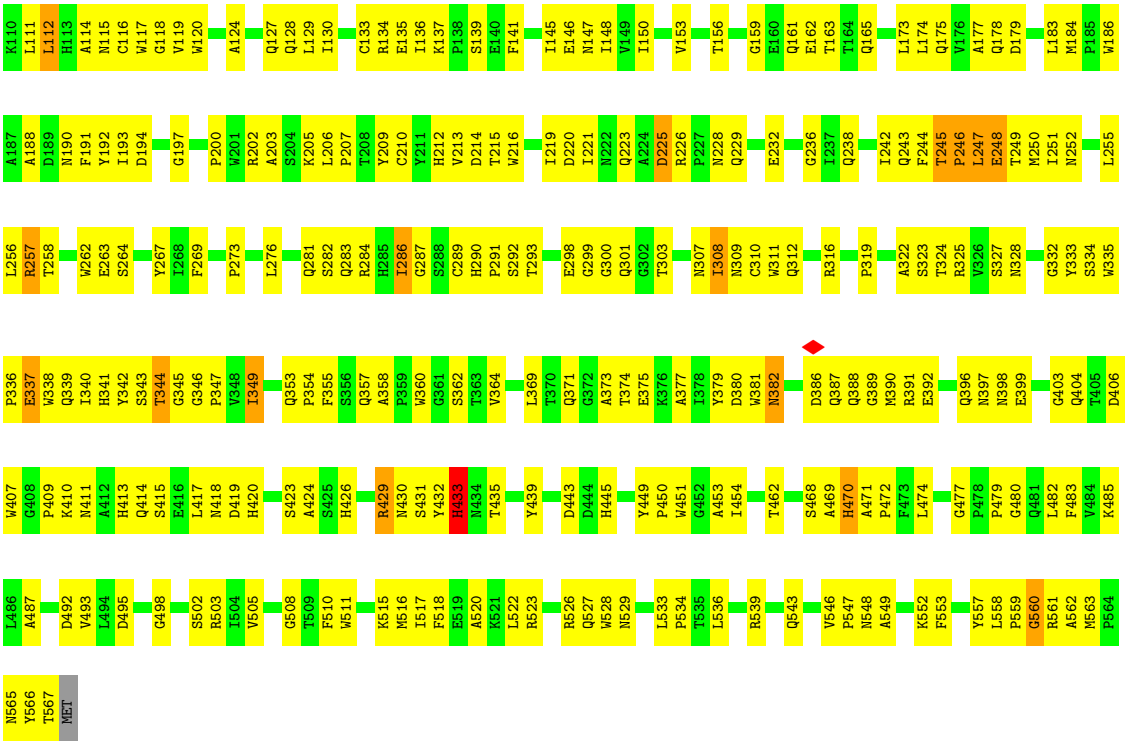




- Molecule 1: VP2

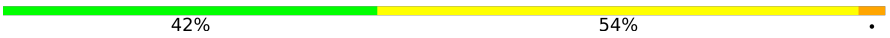
Chain c:

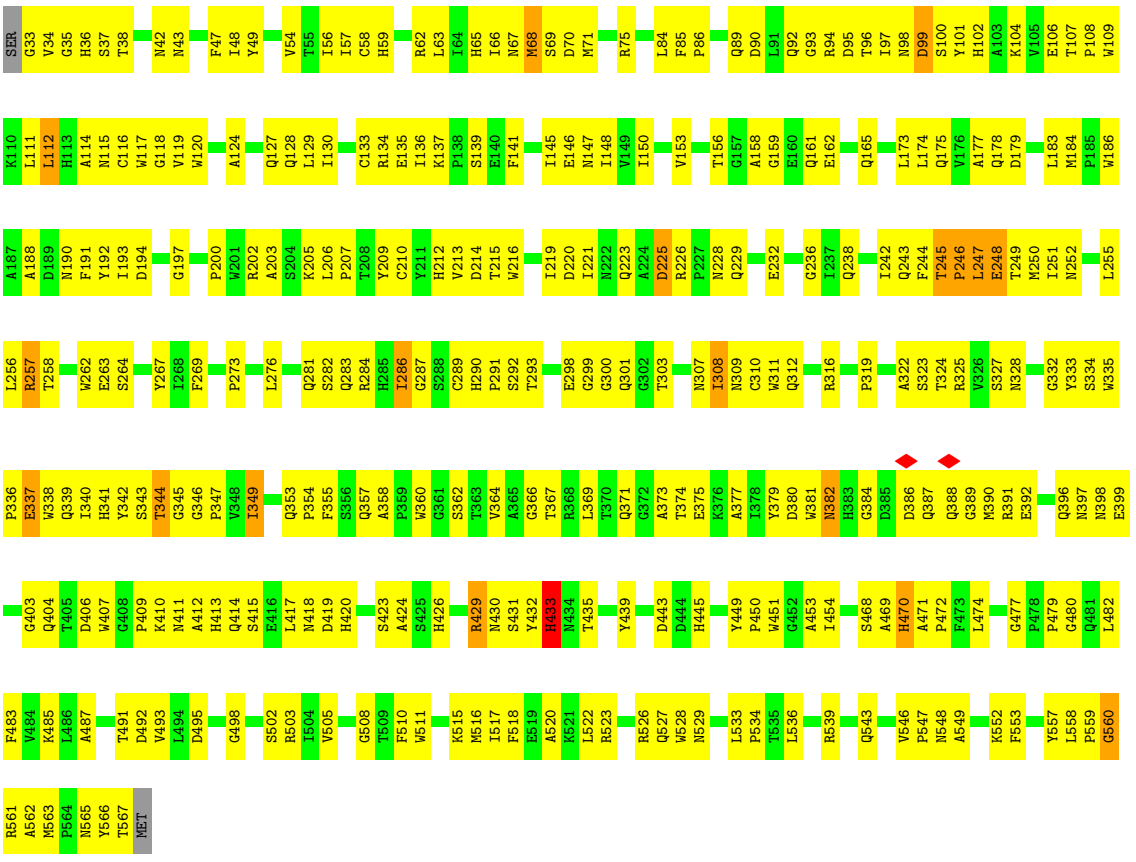




• Molecule 1: VP2

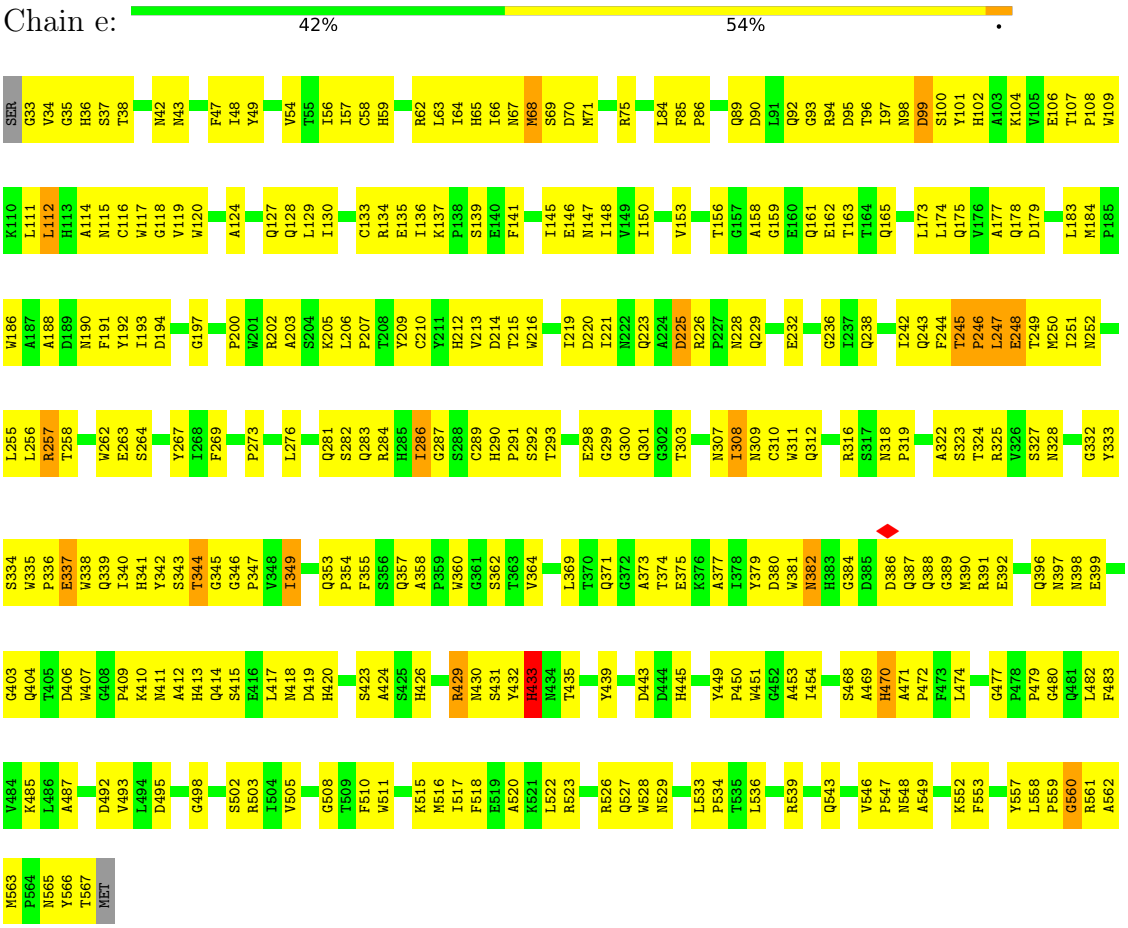
Chain d:





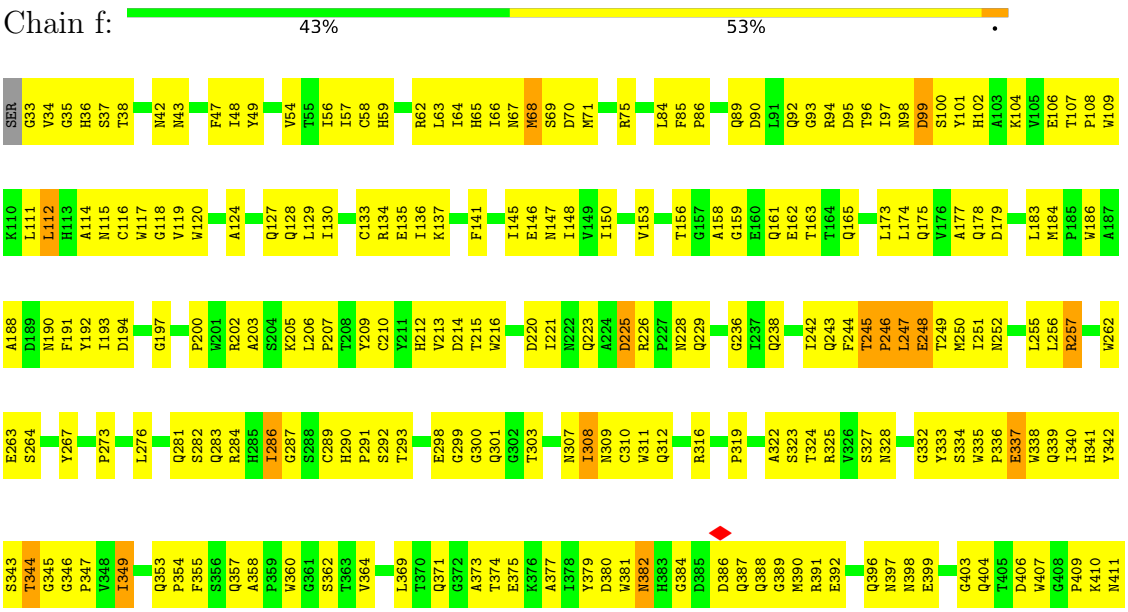
• Molecule 1: VP2

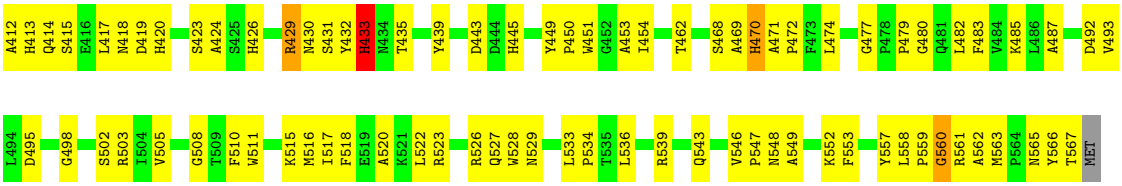
Chain e:



• Molecule 1: VP2

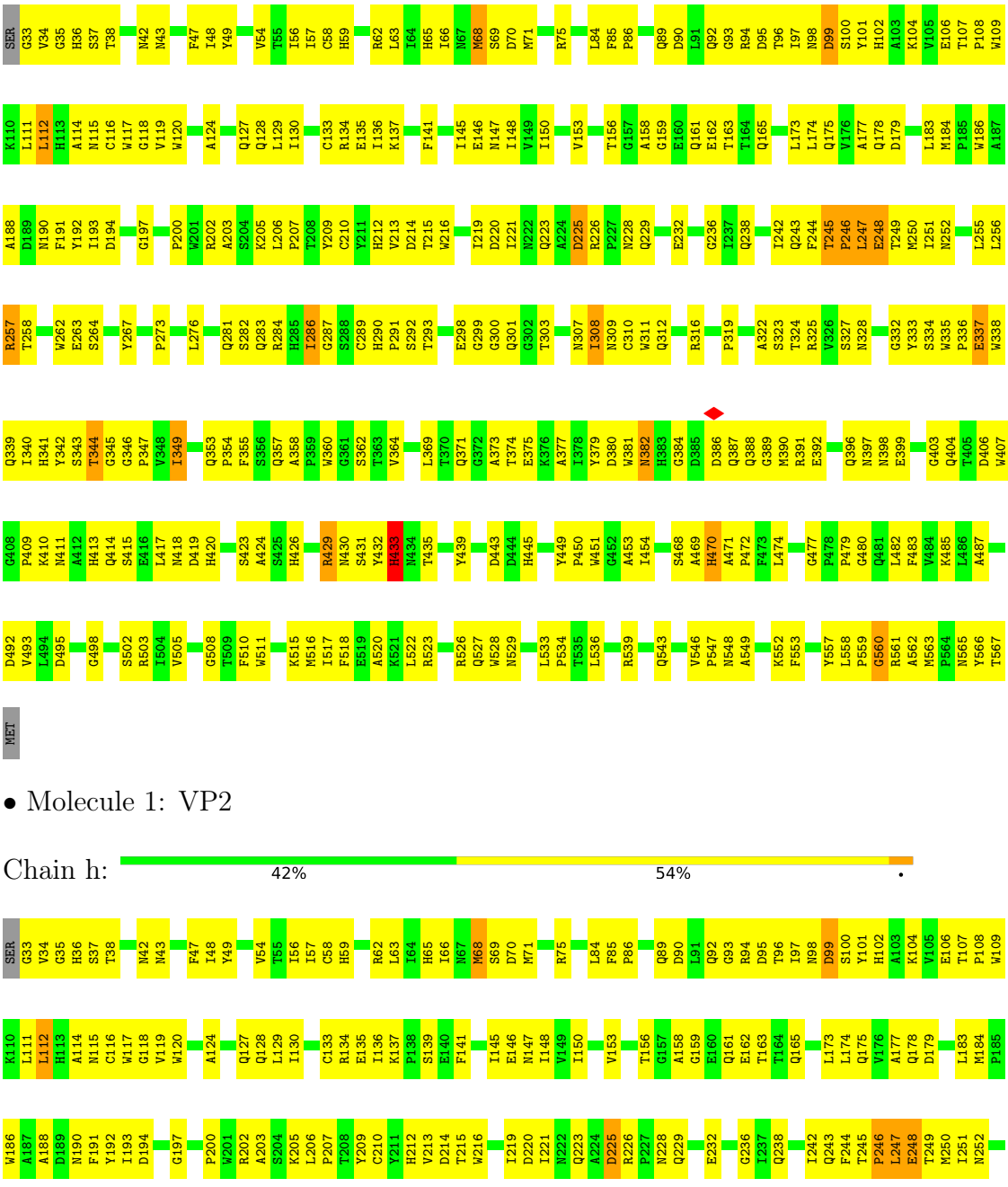
Chain f:





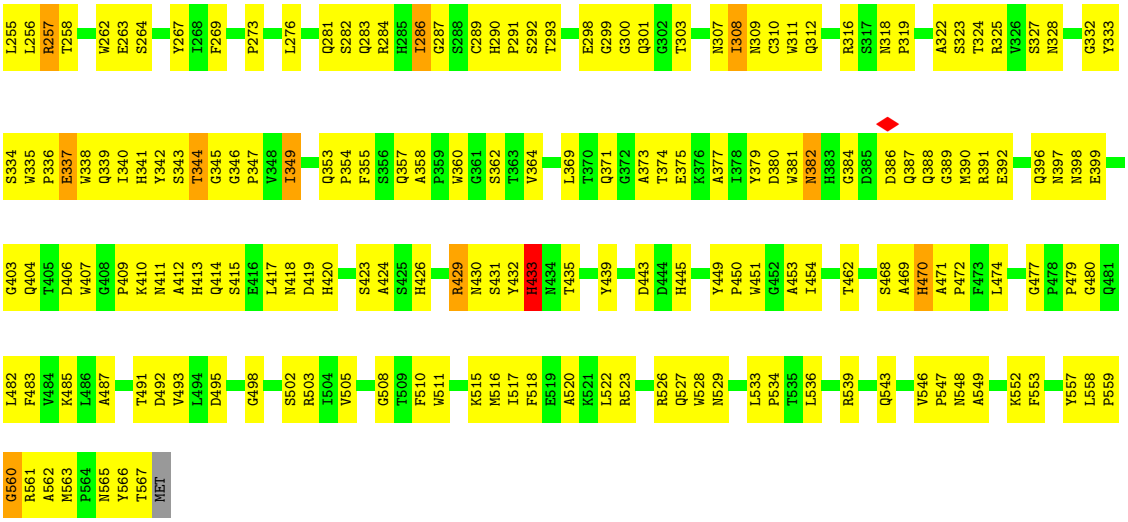
• Molecule 1: VP2

Chain g:



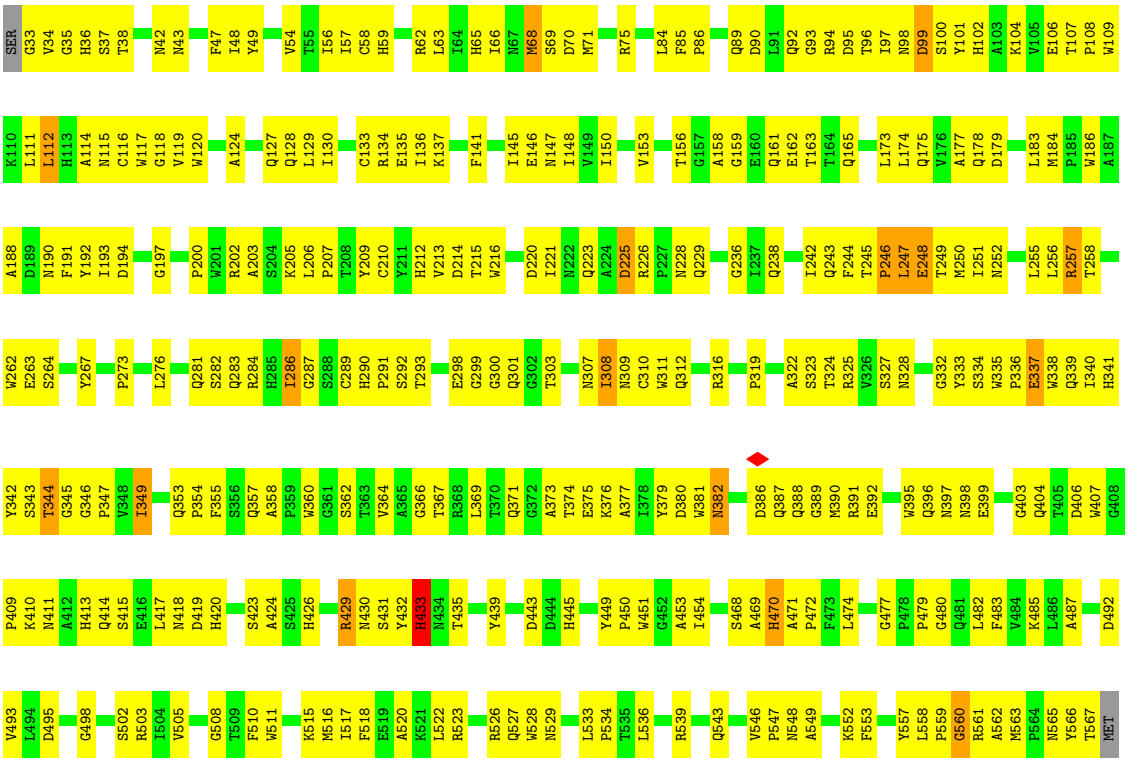
• Molecule 1: VP2

Chain h:



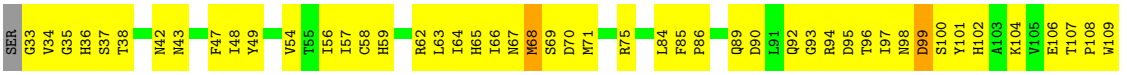
- Molecule 1: VP2

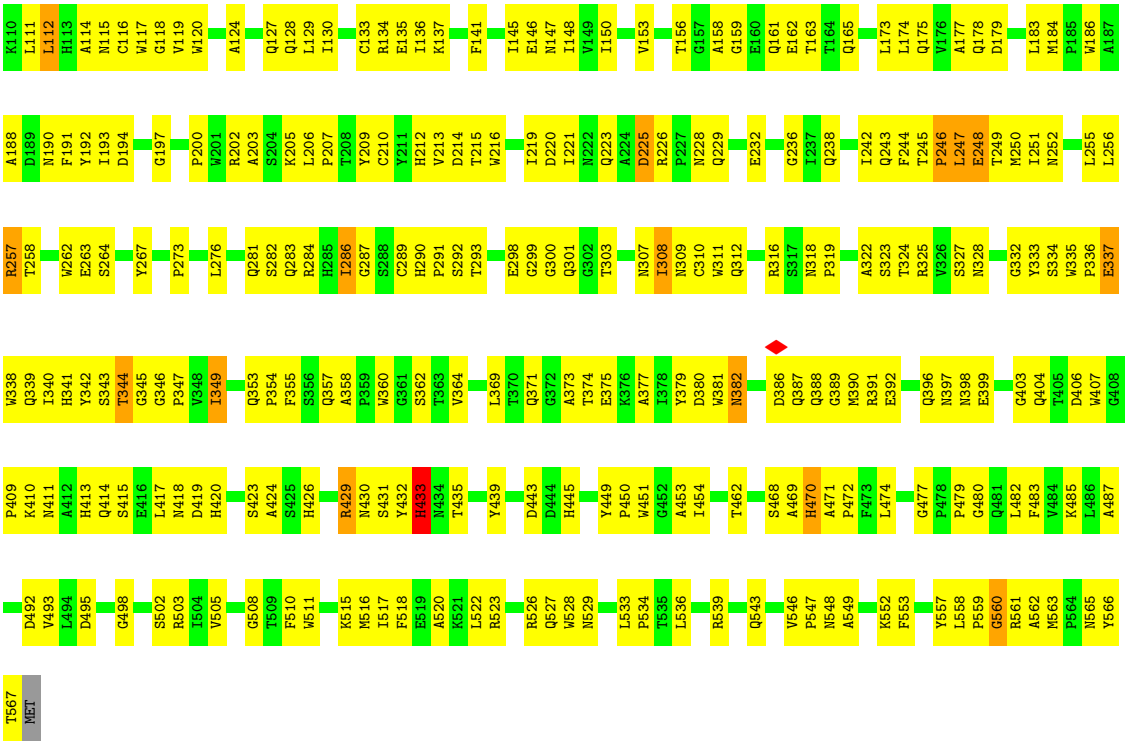
Chain i:



- Molecule 1: VP2

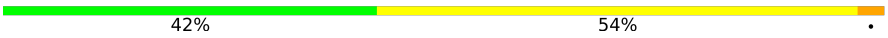
Chain j:

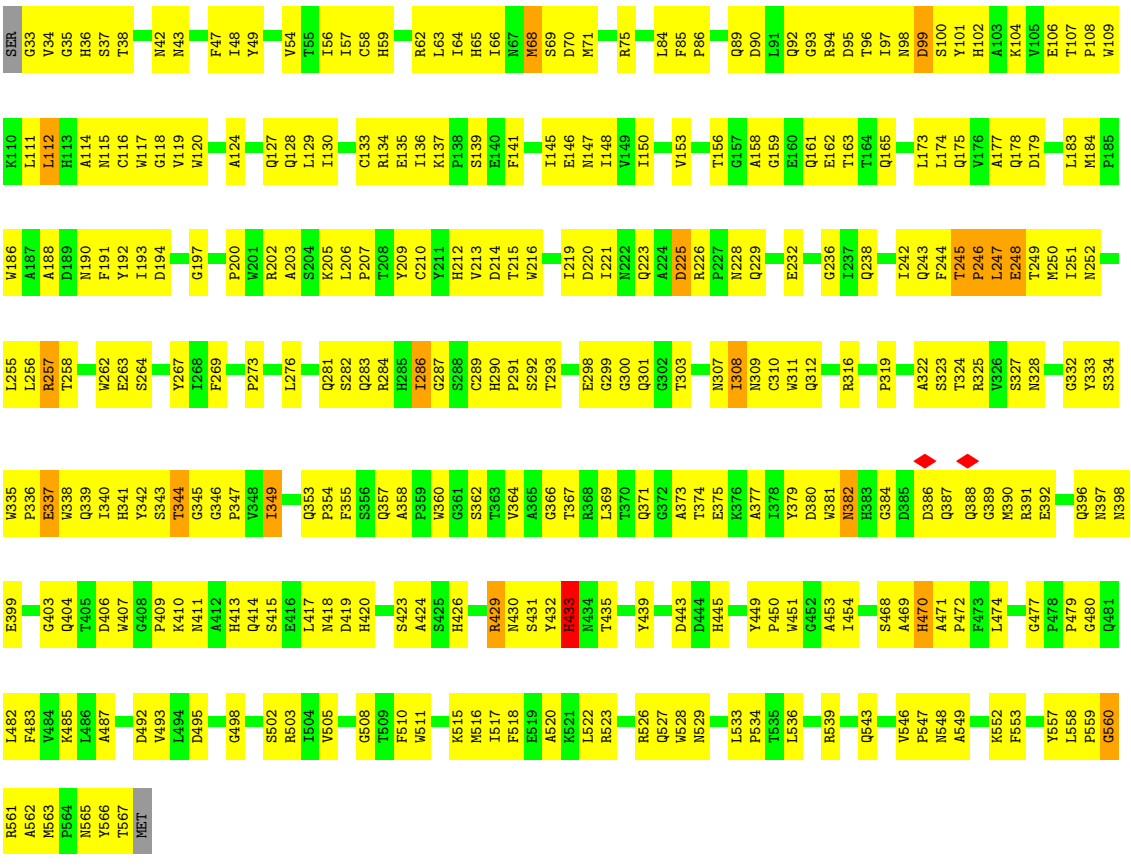




• Molecule 1: VP2

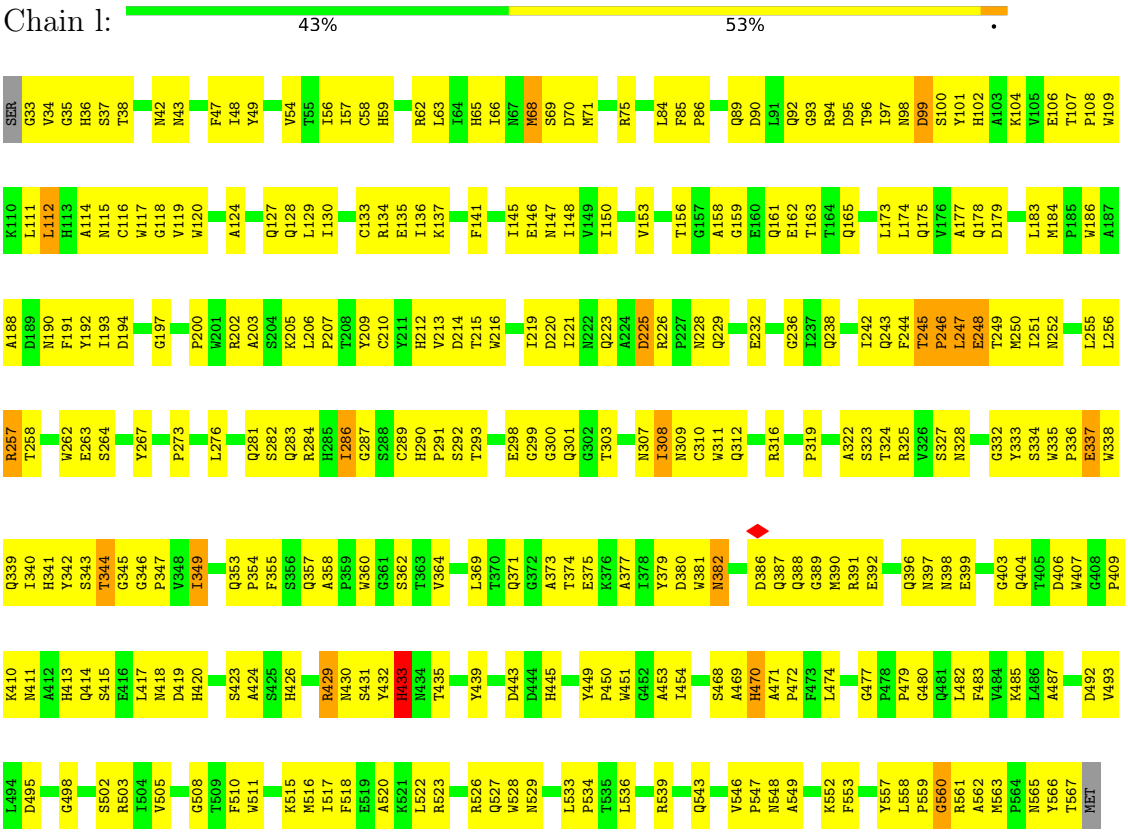
Chain k:





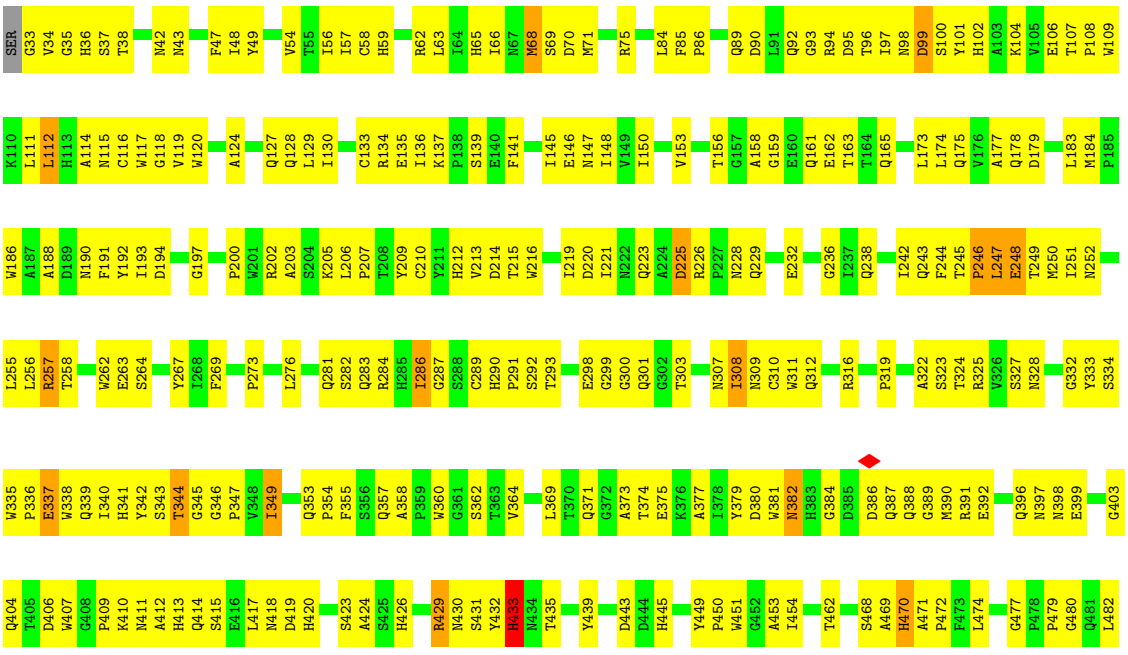
• Molecule 1: VP2

Chain l:



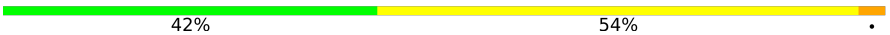
• Molecule 1: VP2

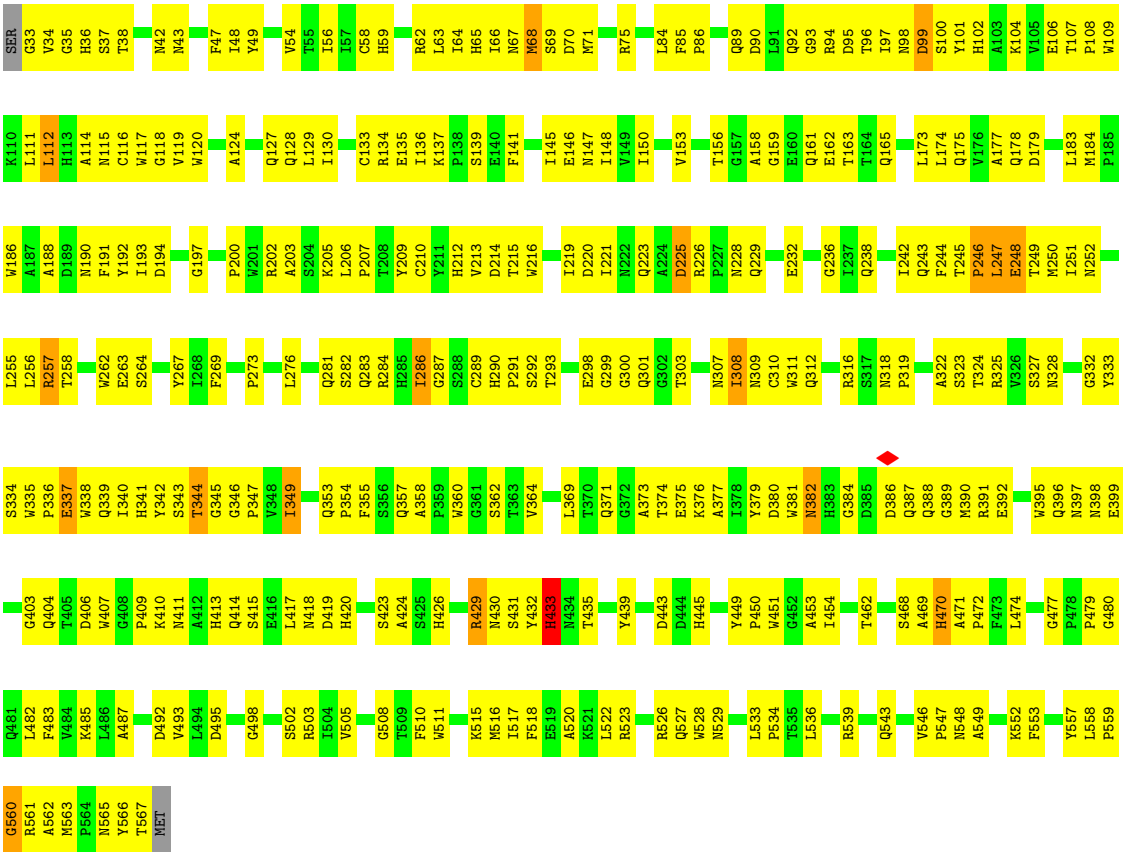
Chain m:



• Molecule 1: VP2

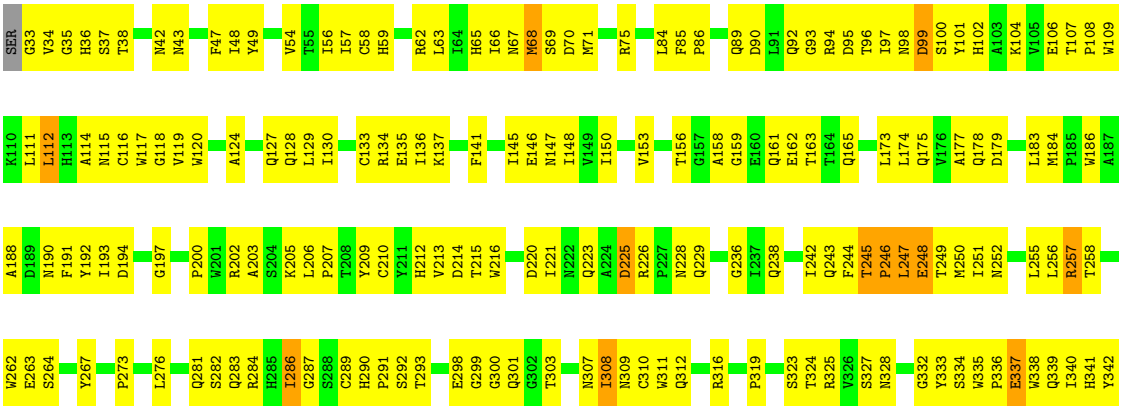
Chain n:

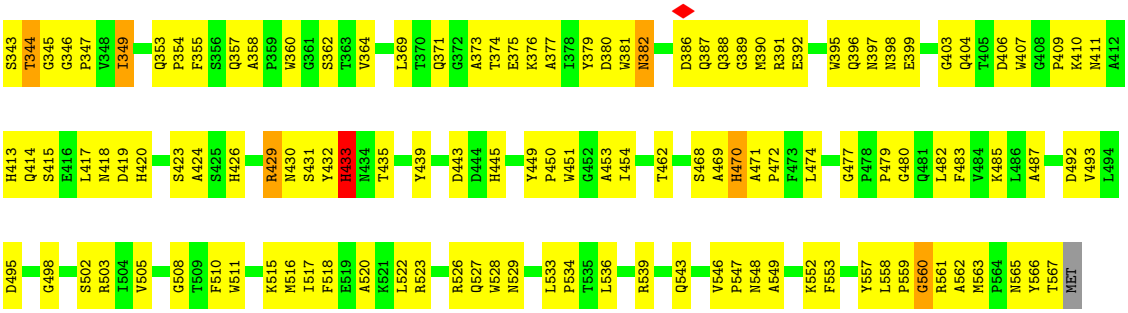




• Molecule 1: VP2

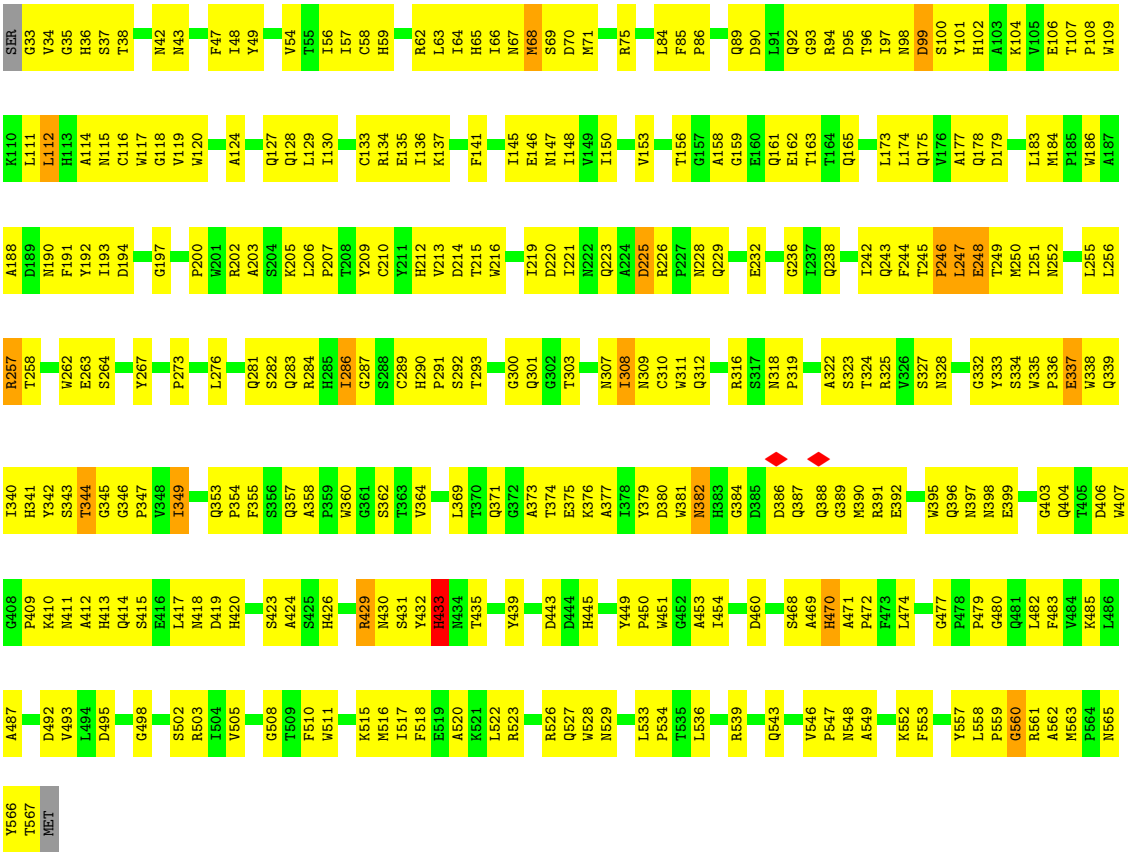
Chain o:





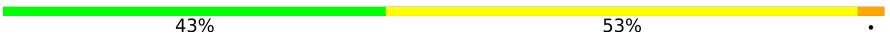
• Molecule 1: VP2

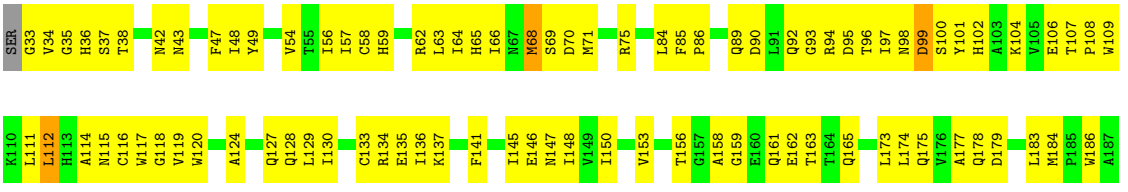
Chain p:

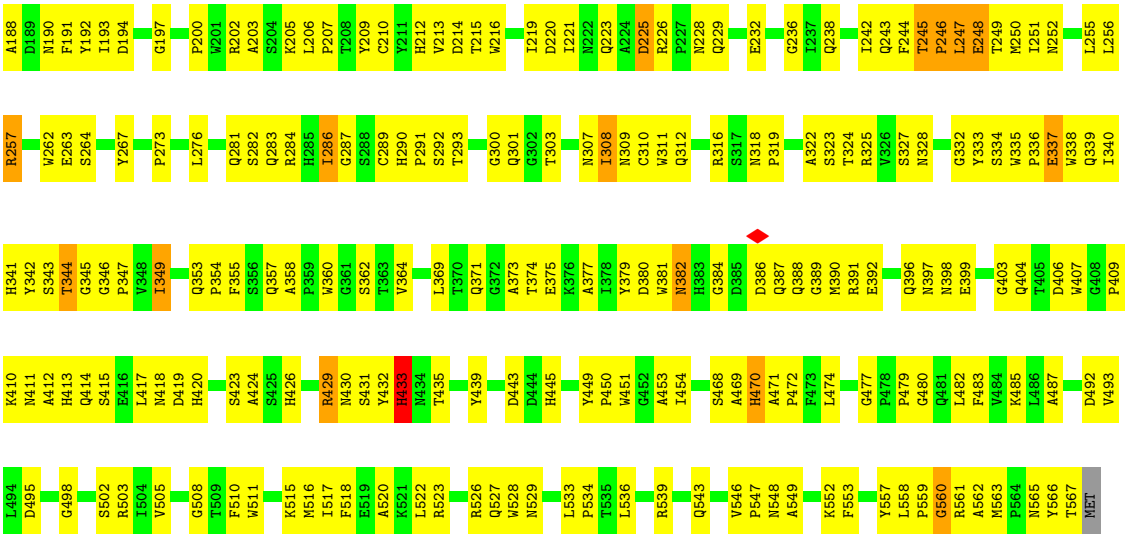


• Molecule 1: VP2

Chain q:

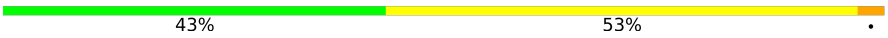


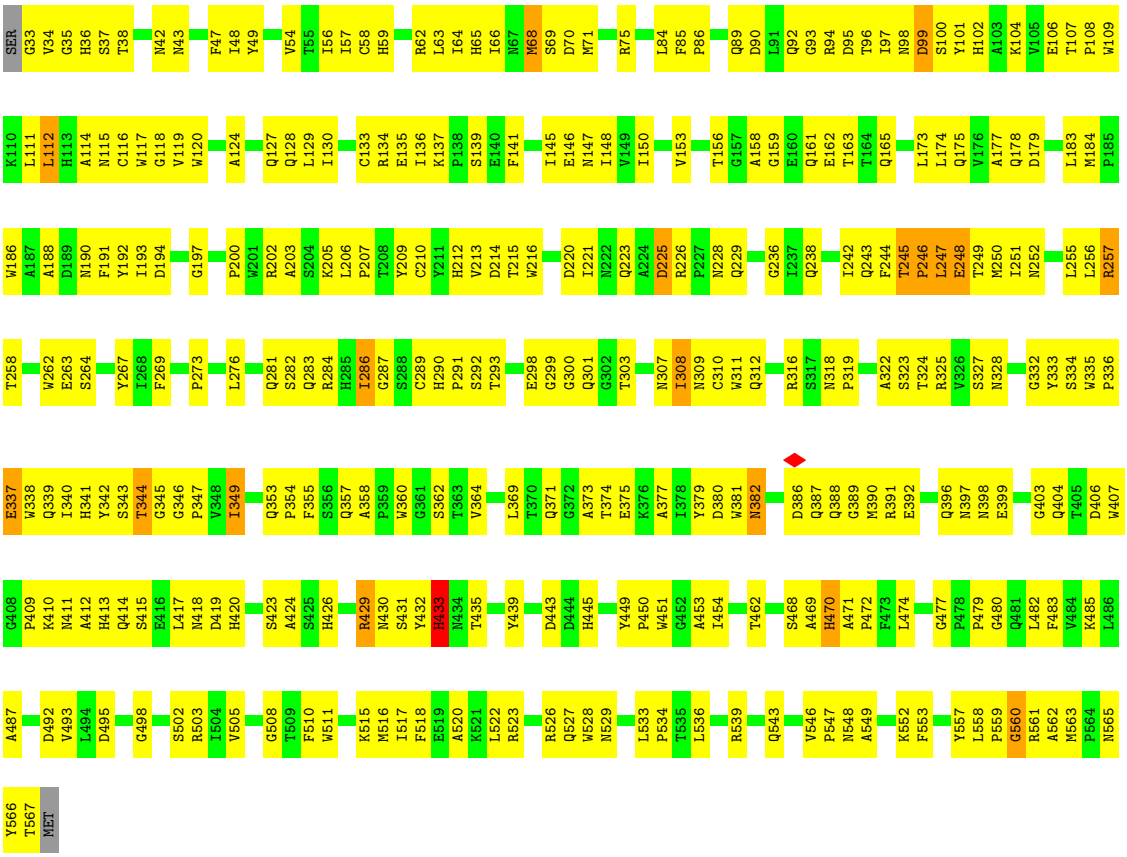




• Molecule 1: VP2

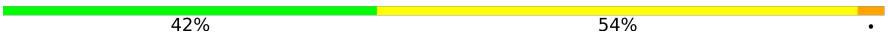
Chain r:

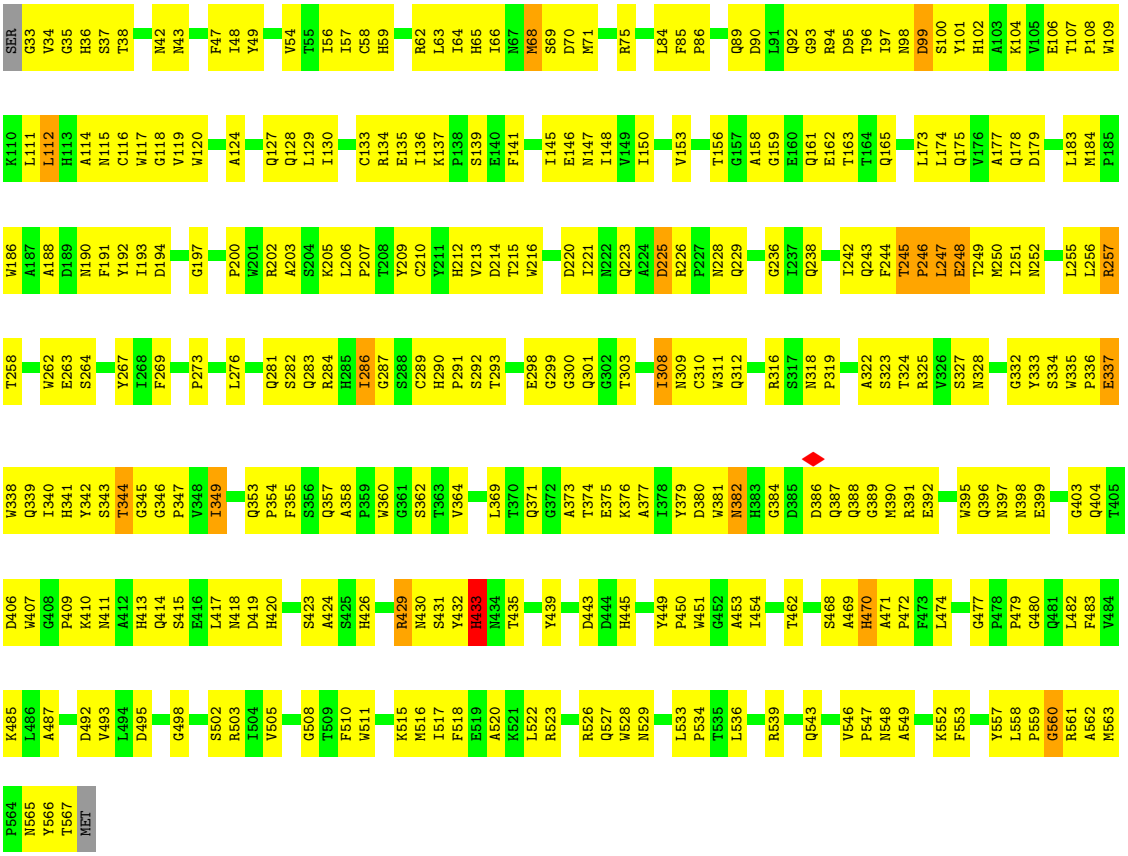




• Molecule 1: VP2

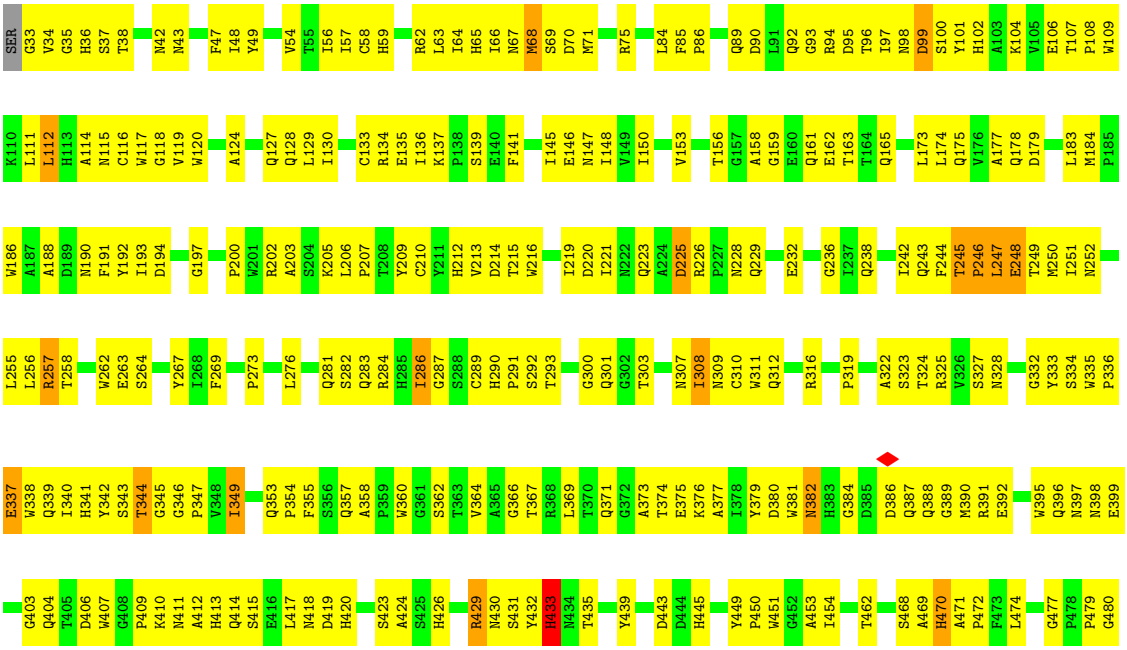
Chain s:

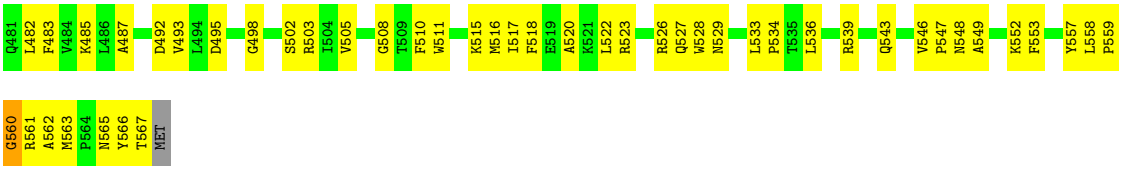




• Molecule 1: VP2

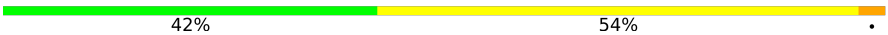
Chain t:

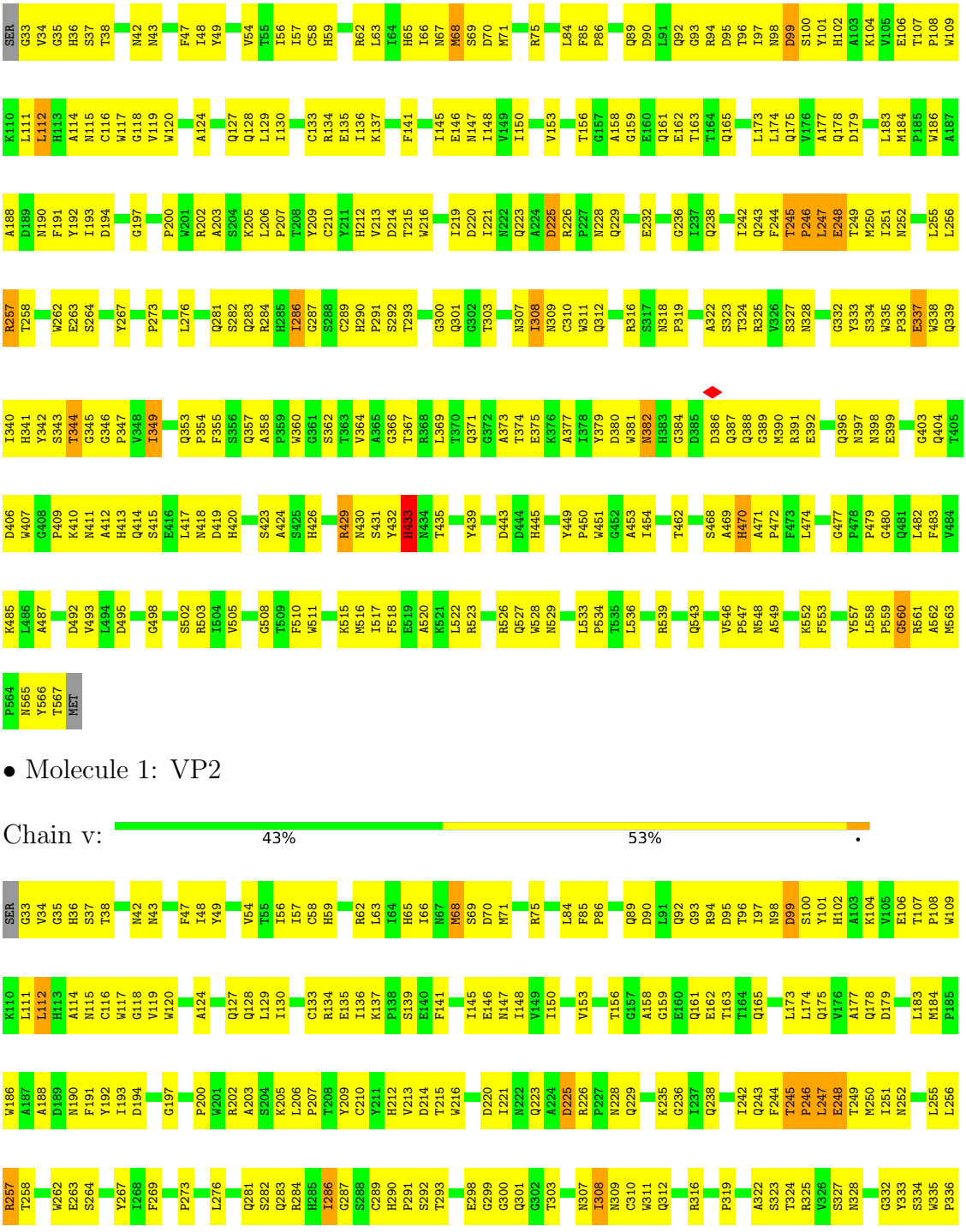




• Molecule 1: VP2

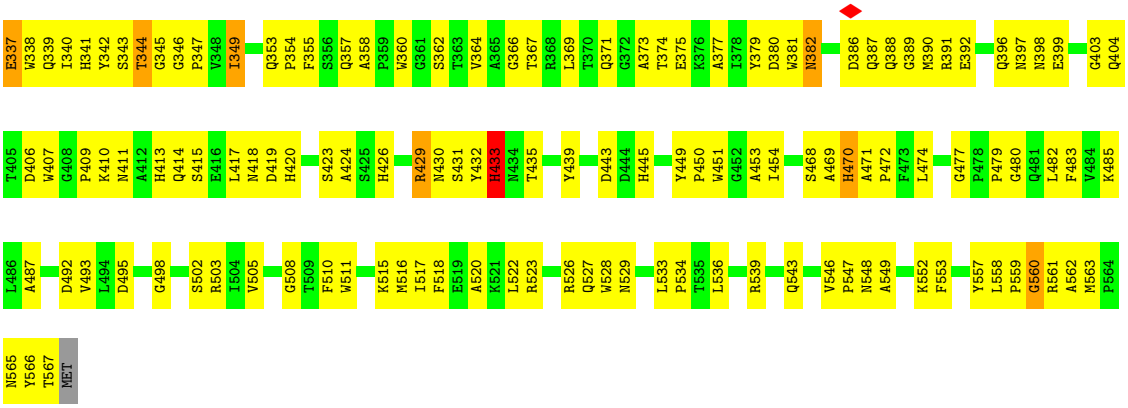
Chain u:





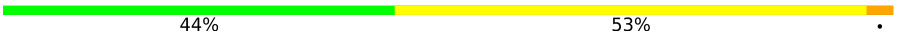
• Molecule 1: VP2

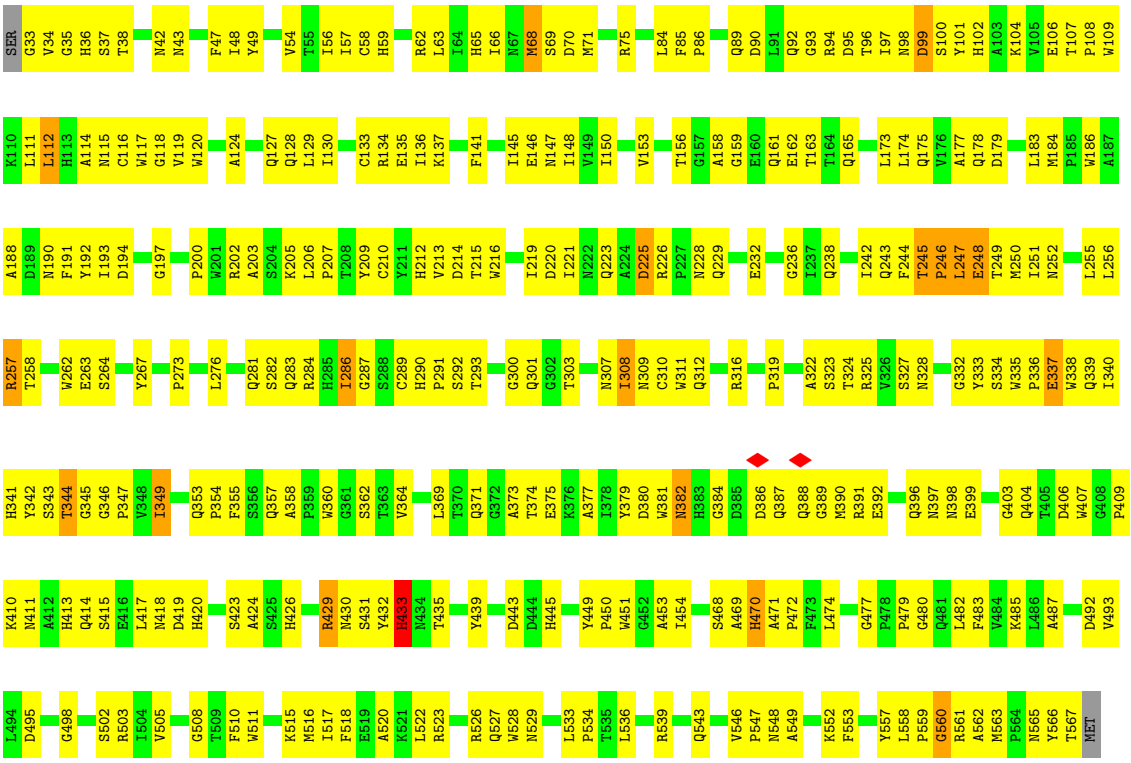
Chain v:



- Molecule 1: VP2

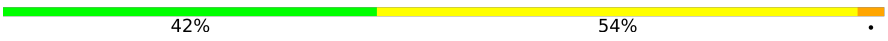
Chain w:

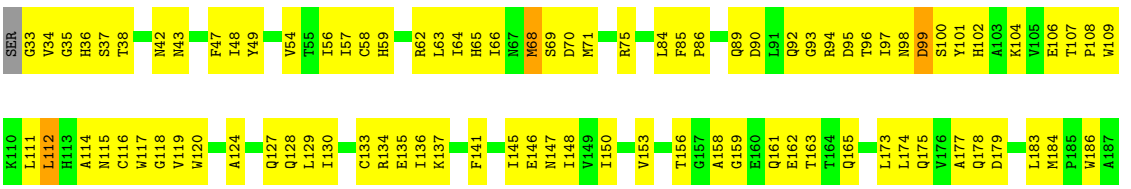


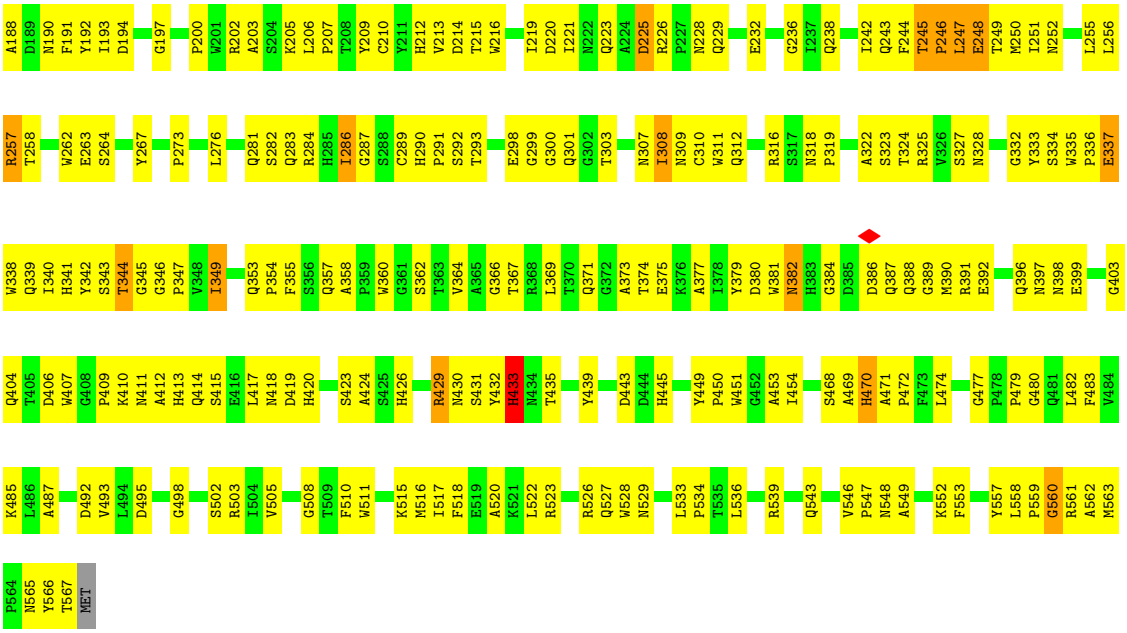


- Molecule 1: VP2

Chain x:

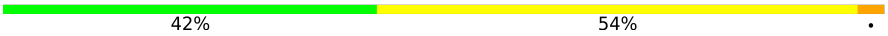


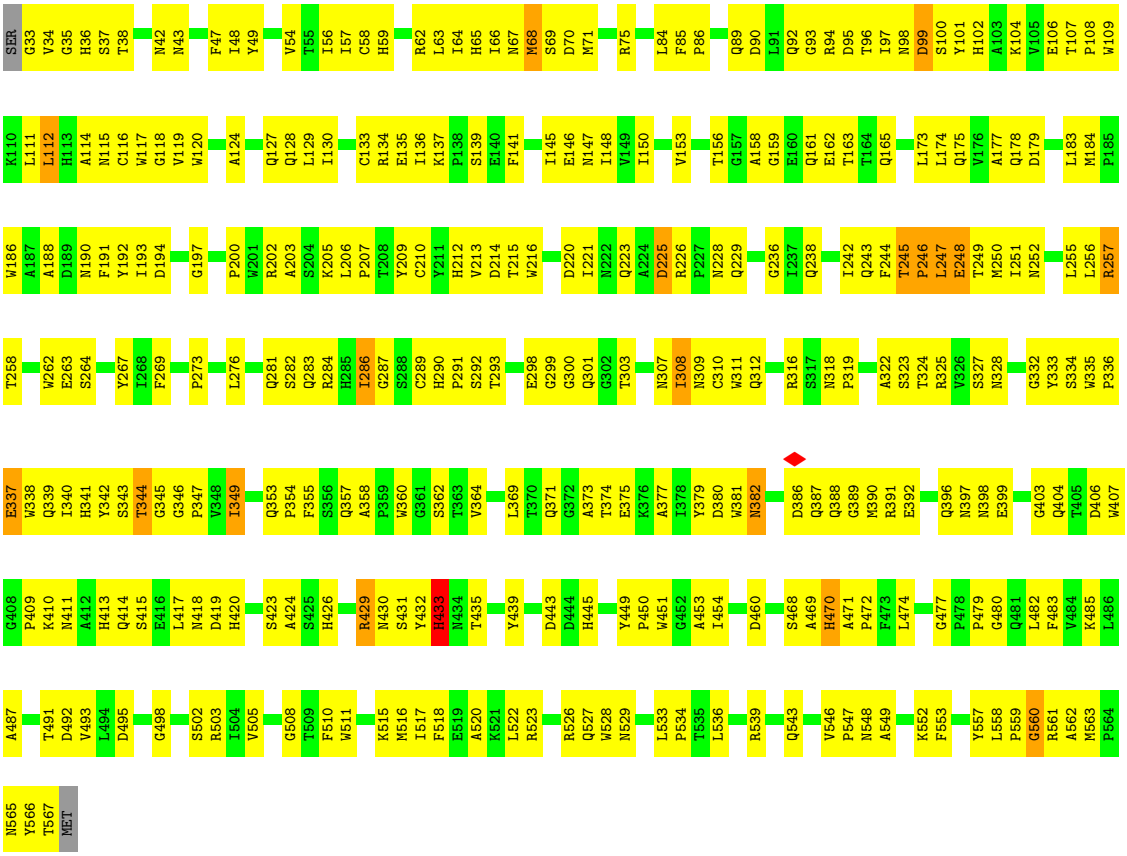




• Molecule 1: VP2

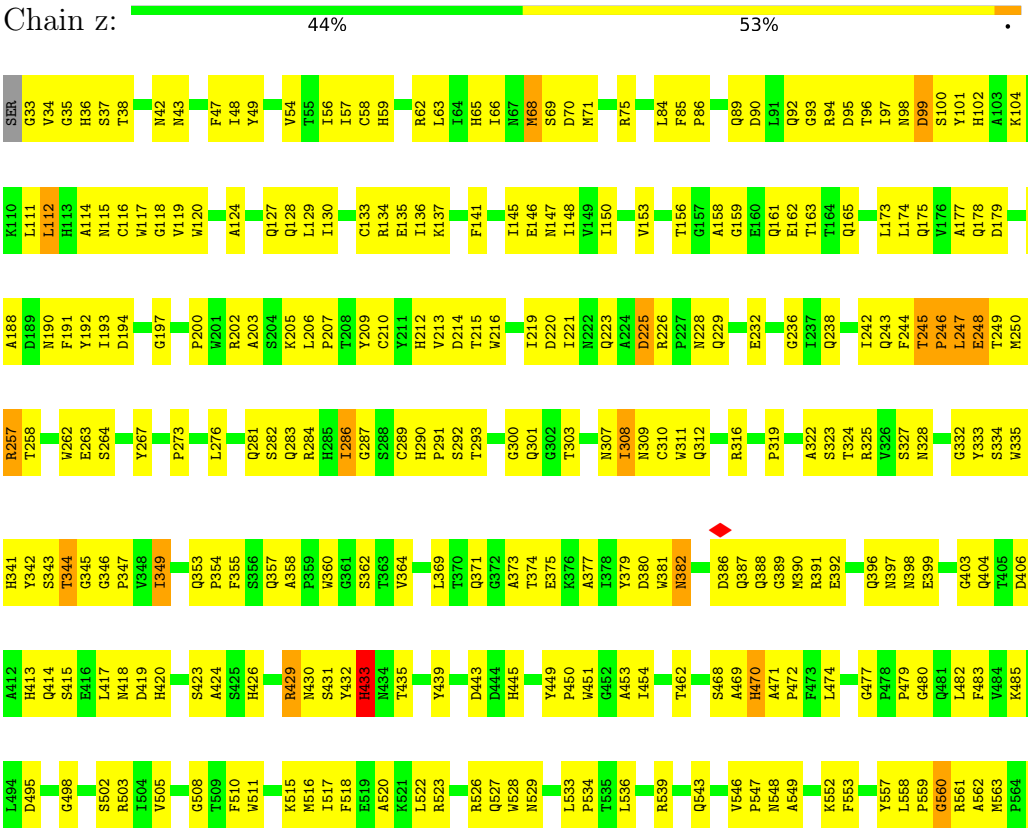
Chain y:





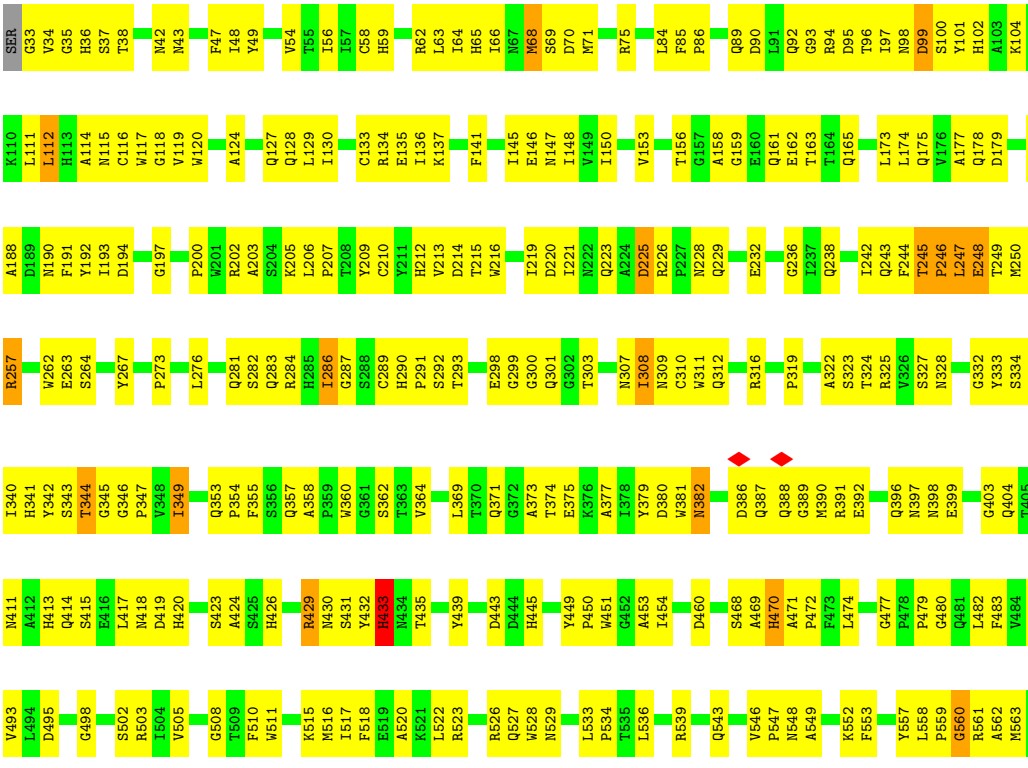
• Molecule 1: VP2

Chain z:



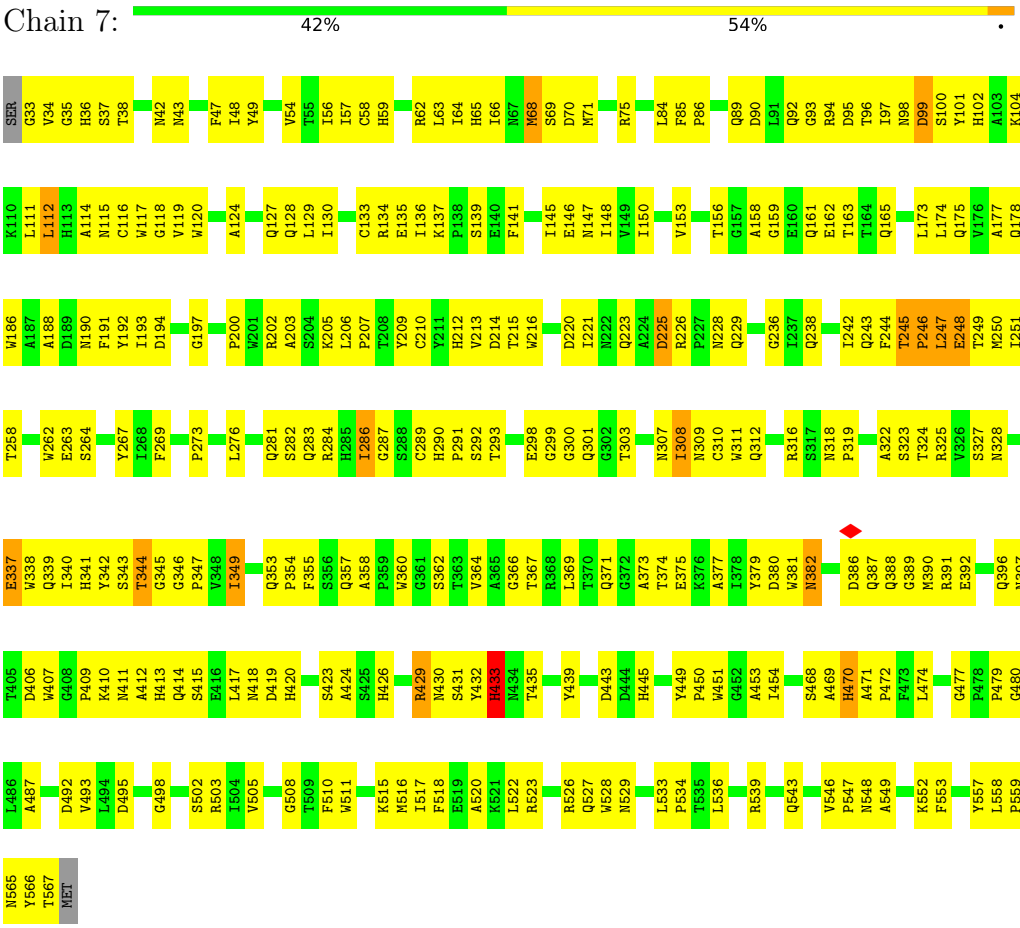
• Molecule 1: VP2

Chain 6:



• Molecule 1: VP2

Chain 7:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	7564	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 ($e^-/Å^2$)	57	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	17.508	Depositor
Minimum map value	-11.269	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	437.98, 437.98, 437.98	wwPDB
Map dimensions	359, 359, 359	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.22, 1.22, 1.22	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	0	0.49	0/4472	0.79	14/6114 (0.2%)
1	1	0.49	0/4472	0.79	14/6114 (0.2%)
1	2	0.49	0/4472	0.79	14/6114 (0.2%)
1	3	0.49	0/4472	0.79	14/6114 (0.2%)
1	4	0.49	0/4472	0.79	14/6114 (0.2%)
1	5	0.49	0/4472	0.79	14/6114 (0.2%)
1	6	0.49	0/4472	0.79	14/6114 (0.2%)
1	7	0.49	0/4472	0.79	14/6114 (0.2%)
1	A	0.49	0/4472	0.79	14/6114 (0.2%)
1	B	0.49	0/4472	0.79	14/6114 (0.2%)
1	C	0.49	0/4472	0.79	14/6114 (0.2%)
1	D	0.49	0/4472	0.79	14/6114 (0.2%)
1	E	0.49	0/4472	0.79	14/6114 (0.2%)
1	F	0.49	0/4472	0.79	14/6114 (0.2%)
1	G	0.49	0/4472	0.79	14/6114 (0.2%)
1	H	0.49	0/4472	0.79	14/6114 (0.2%)
1	I	0.49	0/4472	0.79	14/6114 (0.2%)
1	J	0.49	0/4472	0.79	14/6114 (0.2%)
1	K	0.49	0/4472	0.79	14/6114 (0.2%)
1	L	0.49	0/4472	0.79	14/6114 (0.2%)
1	M	0.49	0/4472	0.79	14/6114 (0.2%)
1	N	0.49	0/4472	0.79	14/6114 (0.2%)
1	O	0.49	0/4472	0.79	14/6114 (0.2%)
1	P	0.49	0/4472	0.79	14/6114 (0.2%)
1	Q	0.49	0/4472	0.79	14/6114 (0.2%)
1	R	0.49	0/4472	0.79	14/6114 (0.2%)
1	S	0.49	0/4472	0.79	14/6114 (0.2%)
1	T	0.49	0/4472	0.79	14/6114 (0.2%)
1	U	0.49	0/4472	0.79	14/6114 (0.2%)
1	V	0.49	0/4472	0.79	14/6114 (0.2%)
1	W	0.49	0/4472	0.79	14/6114 (0.2%)
1	X	0.49	0/4472	0.79	14/6114 (0.2%)
1	Y	0.49	0/4472	0.79	14/6114 (0.2%)
1	Z	0.49	0/4472	0.79	14/6114 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.49	0/4472	0.79	14/6114 (0.2%)
1	b	0.49	0/4472	0.79	14/6114 (0.2%)
1	c	0.49	0/4472	0.79	14/6114 (0.2%)
1	d	0.49	0/4472	0.79	14/6114 (0.2%)
1	e	0.49	0/4472	0.79	14/6114 (0.2%)
1	f	0.49	0/4472	0.79	14/6114 (0.2%)
1	g	0.49	0/4472	0.79	14/6114 (0.2%)
1	h	0.49	0/4472	0.79	14/6114 (0.2%)
1	i	0.49	0/4472	0.79	14/6114 (0.2%)
1	j	0.49	0/4472	0.79	14/6114 (0.2%)
1	k	0.49	0/4472	0.79	14/6114 (0.2%)
1	l	0.49	0/4472	0.79	14/6114 (0.2%)
1	m	0.49	0/4472	0.79	14/6114 (0.2%)
1	n	0.49	0/4472	0.79	14/6114 (0.2%)
1	o	0.49	0/4472	0.79	14/6114 (0.2%)
1	p	0.49	0/4472	0.79	14/6114 (0.2%)
1	q	0.49	0/4472	0.79	14/6114 (0.2%)
1	r	0.49	0/4472	0.79	14/6114 (0.2%)
1	s	0.49	0/4472	0.79	14/6114 (0.2%)
1	t	0.49	0/4472	0.79	14/6114 (0.2%)
1	u	0.49	0/4472	0.79	14/6114 (0.2%)
1	v	0.49	0/4472	0.79	14/6114 (0.2%)
1	w	0.49	0/4472	0.79	14/6114 (0.2%)
1	x	0.49	0/4472	0.79	14/6114 (0.2%)
1	y	0.49	0/4472	0.79	14/6114 (0.2%)
1	z	0.49	0/4472	0.79	14/6114 (0.2%)
All	All	0.49	0/268320	0.79	840/366840 (0.2%)

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	0	0	2
1	1	0	2
1	2	0	2
1	3	0	2
1	4	0	2
1	5	0	2
1	6	0	2
1	7	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
1	F	0	2
1	G	0	2
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
1	L	0	2
1	M	0	2
1	N	0	2
1	O	0	2
1	P	0	2
1	Q	0	2
1	R	0	2
1	S	0	2
1	T	0	2
1	U	0	2
1	V	0	2
1	W	0	2
1	X	0	2
1	Y	0	2
1	Z	0	2
1	a	0	2
1	b	0	2
1	c	0	2
1	d	0	2
1	e	0	2
1	f	0	2
1	g	0	2
1	h	0	2
1	i	0	2
1	j	0	2
1	k	0	2
1	l	0	2
1	m	0	2
1	n	0	2
1	o	0	2
1	p	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	2
1	r	0	2
1	s	0	2
1	t	0	2
1	u	0	2
1	v	0	2
1	w	0	2
1	x	0	2
1	y	0	2
1	z	0	2
All	All	0	120

There are no bond length outliers.

All (840) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	245	THR	CA-C-N	10.94	131.38	119.90
1	r	245	THR	C-N-CA	10.94	131.38	119.90
1	7	245	THR	CA-C-N	10.94	131.38	119.90
1	7	245	THR	C-N-CA	10.94	131.38	119.90
1	E	245	THR	CA-C-N	10.93	131.37	119.90
1	E	245	THR	C-N-CA	10.93	131.37	119.90
1	w	245	THR	CA-C-N	10.93	131.37	119.90
1	w	245	THR	C-N-CA	10.93	131.37	119.90
1	C	245	THR	CA-C-N	10.93	131.37	119.90
1	C	245	THR	C-N-CA	10.93	131.37	119.90
1	B	245	THR	CA-C-N	10.92	131.37	119.90
1	B	245	THR	C-N-CA	10.92	131.37	119.90
1	1	245	THR	CA-C-N	10.92	131.37	119.90
1	1	245	THR	C-N-CA	10.92	131.37	119.90
1	Q	245	THR	CA-C-N	10.92	131.37	119.90
1	Q	245	THR	C-N-CA	10.92	131.37	119.90
1	Z	245	THR	CA-C-N	10.92	131.37	119.90
1	Z	245	THR	C-N-CA	10.92	131.37	119.90
1	i	245	THR	CA-C-N	10.92	131.37	119.90
1	i	245	THR	C-N-CA	10.92	131.37	119.90
1	v	245	THR	CA-C-N	10.92	131.37	119.90
1	v	245	THR	C-N-CA	10.92	131.37	119.90
1	b	245	THR	CA-C-N	10.92	131.36	119.90
1	b	245	THR	C-N-CA	10.92	131.36	119.90
1	x	245	THR	CA-C-N	10.91	131.35	119.90
1	x	245	THR	C-N-CA	10.91	131.35	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	245	THR	CA-C-N	10.90	131.35	119.90
1	Y	245	THR	C-N-CA	10.90	131.35	119.90
1	g	245	THR	CA-C-N	10.90	131.35	119.90
1	g	245	THR	C-N-CA	10.90	131.35	119.90
1	l	245	THR	CA-C-N	10.90	131.35	119.90
1	l	245	THR	C-N-CA	10.90	131.35	119.90
1	K	245	THR	CA-C-N	10.90	131.34	119.90
1	K	245	THR	C-N-CA	10.90	131.34	119.90
1	4	245	THR	CA-C-N	10.90	131.34	119.90
1	4	245	THR	C-N-CA	10.90	131.34	119.90
1	q	245	THR	CA-C-N	10.90	131.34	119.90
1	q	245	THR	C-N-CA	10.90	131.34	119.90
1	D	245	THR	CA-C-N	10.89	131.34	119.90
1	D	245	THR	C-N-CA	10.89	131.34	119.90
1	P	245	THR	CA-C-N	10.89	131.34	119.90
1	P	245	THR	C-N-CA	10.89	131.34	119.90
1	X	245	THR	CA-C-N	10.89	131.34	119.90
1	X	245	THR	C-N-CA	10.89	131.34	119.90
1	0	245	THR	CA-C-N	10.89	131.34	119.90
1	0	245	THR	C-N-CA	10.89	131.34	119.90
1	m	245	THR	CA-C-N	10.89	131.34	119.90
1	m	245	THR	C-N-CA	10.89	131.34	119.90
1	s	245	THR	CA-C-N	10.89	131.34	119.90
1	s	245	THR	C-N-CA	10.89	131.34	119.90
1	f	245	THR	CA-C-N	10.89	131.34	119.90
1	f	245	THR	C-N-CA	10.89	131.34	119.90
1	W	245	THR	CA-C-N	10.89	131.34	119.90
1	W	245	THR	C-N-CA	10.89	131.34	119.90
1	d	245	THR	CA-C-N	10.89	131.34	119.90
1	d	245	THR	C-N-CA	10.89	131.34	119.90
1	A	245	THR	CA-C-N	10.89	131.33	119.90
1	A	245	THR	C-N-CA	10.89	131.33	119.90
1	R	495	ASP	N-CA-C	10.88	123.14	111.28
1	V	495	ASP	N-CA-C	10.88	123.14	111.28
1	5	245	THR	CA-C-N	10.88	131.32	119.90
1	5	245	THR	C-N-CA	10.88	131.32	119.90
1	n	245	THR	CA-C-N	10.88	131.32	119.90
1	n	245	THR	C-N-CA	10.88	131.32	119.90
1	y	245	THR	CA-C-N	10.88	131.32	119.90
1	y	245	THR	C-N-CA	10.88	131.32	119.90
1	G	245	THR	CA-C-N	10.88	131.32	119.90
1	G	245	THR	C-N-CA	10.88	131.32	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	245	THR	CA-C-N	10.88	131.32	119.90
1	V	245	THR	C-N-CA	10.88	131.32	119.90
1	j	245	THR	CA-C-N	10.88	131.32	119.90
1	j	245	THR	C-N-CA	10.88	131.32	119.90
1	t	245	THR	CA-C-N	10.88	131.32	119.90
1	t	245	THR	C-N-CA	10.88	131.32	119.90
1	u	245	THR	CA-C-N	10.88	131.32	119.90
1	u	245	THR	C-N-CA	10.88	131.32	119.90
1	O	245	THR	CA-C-N	10.88	131.32	119.90
1	O	245	THR	C-N-CA	10.88	131.32	119.90
1	S	495	ASP	N-CA-C	10.88	123.13	111.28
1	2	245	THR	CA-C-N	10.88	131.32	119.90
1	2	245	THR	C-N-CA	10.88	131.32	119.90
1	S	245	THR	CA-C-N	10.87	131.31	119.90
1	S	245	THR	C-N-CA	10.87	131.31	119.90
1	h	245	THR	CA-C-N	10.87	131.32	119.90
1	h	245	THR	C-N-CA	10.87	131.32	119.90
1	o	245	THR	CA-C-N	10.87	131.31	119.90
1	o	245	THR	C-N-CA	10.87	131.31	119.90
1	z	245	THR	CA-C-N	10.87	131.31	119.90
1	z	245	THR	C-N-CA	10.87	131.31	119.90
1	R	245	THR	CA-C-N	10.87	131.31	119.90
1	R	245	THR	C-N-CA	10.87	131.31	119.90
1	p	245	THR	CA-C-N	10.87	131.31	119.90
1	p	245	THR	C-N-CA	10.87	131.31	119.90
1	T	245	THR	CA-C-N	10.86	131.31	119.90
1	T	245	THR	C-N-CA	10.86	131.31	119.90
1	J	245	THR	CA-C-N	10.86	131.30	119.90
1	J	245	THR	C-N-CA	10.86	131.30	119.90
1	F	245	THR	CA-C-N	10.86	131.30	119.90
1	F	245	THR	C-N-CA	10.86	131.30	119.90
1	H	245	THR	CA-C-N	10.86	131.30	119.90
1	H	245	THR	C-N-CA	10.86	131.30	119.90
1	M	245	THR	CA-C-N	10.86	131.30	119.90
1	M	245	THR	C-N-CA	10.86	131.30	119.90
1	c	245	THR	CA-C-N	10.86	131.30	119.90
1	c	245	THR	C-N-CA	10.86	131.30	119.90
1	k	245	THR	CA-C-N	10.86	131.30	119.90
1	k	245	THR	C-N-CA	10.86	131.30	119.90
1	q	495	ASP	N-CA-C	10.86	123.11	111.28
1	6	245	THR	CA-C-N	10.86	131.30	119.90
1	6	245	THR	C-N-CA	10.86	131.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	245	THR	CA-C-N	10.86	131.30	119.90
1	I	245	THR	C-N-CA	10.86	131.30	119.90
1	k	495	ASP	N-CA-C	10.86	123.11	111.28
1	z	495	ASP	N-CA-C	10.86	123.11	111.28
1	t	495	ASP	N-CA-C	10.86	123.11	111.28
1	O	495	ASP	N-CA-C	10.85	123.11	111.28
1	3	245	THR	CA-C-N	10.85	131.29	119.90
1	3	245	THR	C-N-CA	10.85	131.29	119.90
1	h	495	ASP	N-CA-C	10.85	123.11	111.28
1	w	495	ASP	N-CA-C	10.85	123.11	111.28
1	r	495	ASP	N-CA-C	10.85	123.11	111.28
1	C	495	ASP	N-CA-C	10.85	123.10	111.28
1	Q	495	ASP	N-CA-C	10.85	123.10	111.28
1	e	495	ASP	N-CA-C	10.85	123.10	111.28
1	j	495	ASP	N-CA-C	10.85	123.11	111.28
1	n	495	ASP	N-CA-C	10.85	123.10	111.28
1	u	495	ASP	N-CA-C	10.85	123.11	111.28
1	y	495	ASP	N-CA-C	10.85	123.10	111.28
1	K	495	ASP	N-CA-C	10.85	123.10	111.28
1	P	495	ASP	N-CA-C	10.85	123.10	111.28
1	Z	495	ASP	N-CA-C	10.85	123.10	111.28
1	4	495	ASP	N-CA-C	10.85	123.10	111.28
1	l	495	ASP	N-CA-C	10.85	123.10	111.28
1	a	245	THR	CA-C-N	10.85	131.29	119.90
1	a	245	THR	C-N-CA	10.85	131.29	119.90
1	x	495	ASP	N-CA-C	10.85	123.10	111.28
1	G	495	ASP	N-CA-C	10.84	123.10	111.28
1	T	495	ASP	N-CA-C	10.84	123.10	111.28
1	U	245	THR	CA-C-N	10.84	131.29	119.90
1	U	245	THR	C-N-CA	10.84	131.29	119.90
1	J	495	ASP	N-CA-C	10.84	123.09	111.28
1	L	245	THR	CA-C-N	10.84	131.28	119.90
1	L	245	THR	C-N-CA	10.84	131.28	119.90
1	N	245	THR	CA-C-N	10.84	131.28	119.90
1	N	245	THR	C-N-CA	10.84	131.28	119.90
1	5	495	ASP	N-CA-C	10.84	123.09	111.28
1	e	245	THR	CA-C-N	10.84	131.28	119.90
1	e	245	THR	C-N-CA	10.84	131.28	119.90
1	E	495	ASP	N-CA-C	10.83	123.09	111.28
1	F	495	ASP	N-CA-C	10.83	123.09	111.28
1	W	495	ASP	N-CA-C	10.83	123.09	111.28
1	1	495	ASP	N-CA-C	10.83	123.09	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	495	ASP	N-CA-C	10.83	123.09	111.28
1	3	495	ASP	N-CA-C	10.83	123.09	111.28
1	A	495	ASP	N-CA-C	10.83	123.08	111.28
1	a	495	ASP	N-CA-C	10.83	123.08	111.28
1	2	495	ASP	N-CA-C	10.83	123.08	111.28
1	i	495	ASP	N-CA-C	10.83	123.08	111.28
1	v	495	ASP	N-CA-C	10.83	123.08	111.28
1	I	495	ASP	N-CA-C	10.82	123.07	111.28
1	d	495	ASP	N-CA-C	10.82	123.08	111.28
1	N	495	ASP	N-CA-C	10.82	123.07	111.28
1	X	495	ASP	N-CA-C	10.82	123.07	111.28
1	0	495	ASP	N-CA-C	10.82	123.07	111.28
1	L	495	ASP	N-CA-C	10.81	123.07	111.28
1	M	495	ASP	N-CA-C	10.81	123.07	111.28
1	U	495	ASP	N-CA-C	10.81	123.07	111.28
1	Y	495	ASP	N-CA-C	10.81	123.07	111.28
1	p	495	ASP	N-CA-C	10.81	123.07	111.28
1	6	495	ASP	N-CA-C	10.81	123.07	111.28
1	H	495	ASP	N-CA-C	10.81	123.06	111.28
1	b	495	ASP	N-CA-C	10.81	123.06	111.28
1	f	495	ASP	N-CA-C	10.81	123.06	111.28
1	g	495	ASP	N-CA-C	10.80	123.06	111.28
1	D	495	ASP	N-CA-C	10.80	123.05	111.28
1	s	495	ASP	N-CA-C	10.80	123.05	111.28
1	7	495	ASP	N-CA-C	10.80	123.05	111.28
1	B	495	ASP	N-CA-C	10.79	123.04	111.28
1	c	495	ASP	N-CA-C	10.79	123.04	111.28
1	m	495	ASP	N-CA-C	10.79	123.04	111.28
1	C	246	PRO	N-CA-C	-9.10	97.06	110.80
1	Q	246	PRO	N-CA-C	-9.10	97.06	110.80
1	Z	246	PRO	N-CA-C	-9.10	97.06	110.80
1	n	246	PRO	N-CA-C	-9.10	97.06	110.80
1	y	246	PRO	N-CA-C	-9.10	97.06	110.80
1	I	246	PRO	N-CA-C	-9.10	97.06	110.80
1	5	246	PRO	N-CA-C	-9.10	97.06	110.80
1	D	246	PRO	N-CA-C	-9.10	97.07	110.80
1	P	246	PRO	N-CA-C	-9.10	97.06	110.80
1	0	246	PRO	N-CA-C	-9.10	97.07	110.80
1	s	246	PRO	N-CA-C	-9.10	97.07	110.80
1	U	246	PRO	N-CA-C	-9.09	97.07	110.80
1	p	246	PRO	N-CA-C	-9.09	97.07	110.80
1	F	246	PRO	N-CA-C	-9.09	97.07	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	246	PRO	N-CA-C	-9.09	97.07	110.80
1	B	246	PRO	N-CA-C	-9.09	97.07	110.80
1	1	246	PRO	N-CA-C	-9.09	97.07	110.80
1	x	246	PRO	N-CA-C	-9.09	97.07	110.80
1	K	246	PRO	N-CA-C	-9.09	97.08	110.80
1	4	246	PRO	N-CA-C	-9.09	97.08	110.80
1	b	246	PRO	N-CA-C	-9.09	97.07	110.80
1	q	246	PRO	N-CA-C	-9.09	97.08	110.80
1	E	246	PRO	N-CA-C	-9.09	97.08	110.80
1	w	246	PRO	N-CA-C	-9.09	97.08	110.80
1	G	246	PRO	N-CA-C	-9.09	97.08	110.80
1	W	246	PRO	N-CA-C	-9.08	97.09	110.80
1	M	246	PRO	N-CA-C	-9.08	97.09	110.80
1	2	246	PRO	N-CA-C	-9.08	97.09	110.80
1	k	246	PRO	N-CA-C	-9.08	97.09	110.80
1	u	246	PRO	N-CA-C	-9.08	97.09	110.80
1	6	246	PRO	N-CA-C	-9.08	97.09	110.80
1	A	246	PRO	N-CA-C	-9.08	97.09	110.80
1	h	246	PRO	N-CA-C	-9.08	97.09	110.80
1	X	246	PRO	N-CA-C	-9.08	97.10	110.80
1	3	246	PRO	N-CA-C	-9.08	97.09	110.80
1	i	246	PRO	N-CA-C	-9.08	97.09	110.80
1	v	246	PRO	N-CA-C	-9.08	97.09	110.80
1	J	246	PRO	N-CA-C	-9.07	97.10	110.80
1	N	246	PRO	N-CA-C	-9.07	97.10	110.80
1	T	246	PRO	N-CA-C	-9.07	97.10	110.80
1	R	246	PRO	N-CA-C	-9.07	97.11	110.80
1	Y	246	PRO	N-CA-C	-9.07	97.11	110.80
1	g	246	PRO	N-CA-C	-9.07	97.11	110.80
1	l	246	PRO	N-CA-C	-9.07	97.11	110.80
1	S	246	PRO	N-CA-C	-9.07	97.11	110.80
1	j	246	PRO	N-CA-C	-9.07	97.11	110.80
1	o	246	PRO	N-CA-C	-9.07	97.11	110.80
1	t	246	PRO	N-CA-C	-9.07	97.11	110.80
1	z	246	PRO	N-CA-C	-9.07	97.11	110.80
1	7	246	PRO	N-CA-C	-9.07	97.11	110.80
1	a	246	PRO	N-CA-C	-9.06	97.11	110.80
1	d	246	PRO	N-CA-C	-9.06	97.12	110.80
1	e	246	PRO	N-CA-C	-9.06	97.12	110.80
1	L	246	PRO	N-CA-C	-9.05	97.13	110.80
1	f	246	PRO	N-CA-C	-9.05	97.13	110.80
1	H	246	PRO	N-CA-C	-9.05	97.13	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	246	PRO	N-CA-C	-9.05	97.14	110.80
1	V	246	PRO	N-CA-C	-9.04	97.14	110.80
1	r	246	PRO	N-CA-C	-9.04	97.14	110.80
1	m	246	PRO	N-CA-C	-9.04	97.15	110.80
1	e	286	ILE	N-CA-C	8.07	118.85	110.62
1	5	286	ILE	N-CA-C	8.06	118.84	110.62
1	k	286	ILE	N-CA-C	8.06	118.84	110.62
1	d	286	ILE	N-CA-C	8.06	118.84	110.62
1	G	286	ILE	N-CA-C	8.05	118.84	110.62
1	N	286	ILE	N-CA-C	8.05	118.83	110.62
1	s	286	ILE	N-CA-C	8.05	118.83	110.62
1	7	286	ILE	N-CA-C	8.05	118.83	110.62
1	J	286	ILE	N-CA-C	8.04	118.82	110.62
1	W	286	ILE	N-CA-C	8.04	118.82	110.62
1	F	286	ILE	N-CA-C	8.04	118.82	110.62
1	X	286	ILE	N-CA-C	8.04	118.82	110.62
1	a	286	ILE	N-CA-C	8.04	118.82	110.62
1	T	286	ILE	N-CA-C	8.03	118.81	110.62
1	2	286	ILE	N-CA-C	8.03	118.81	110.62
1	t	286	ILE	N-CA-C	8.03	118.81	110.62
1	C	286	ILE	N-CA-C	8.03	118.81	110.62
1	L	286	ILE	N-CA-C	8.03	118.81	110.62
1	l	286	ILE	N-CA-C	8.03	118.81	110.62
1	n	286	ILE	N-CA-C	8.03	118.81	110.62
1	y	286	ILE	N-CA-C	8.03	118.81	110.62
1	I	286	ILE	N-CA-C	8.03	118.81	110.62
1	4	286	ILE	N-CA-C	8.02	118.80	110.62
1	H	286	ILE	N-CA-C	8.02	118.80	110.62
1	E	286	ILE	N-CA-C	8.02	118.80	110.62
1	V	286	ILE	N-CA-C	8.01	118.79	110.62
1	0	286	ILE	N-CA-C	8.01	118.79	110.62
1	g	286	ILE	N-CA-C	8.01	118.79	110.62
1	r	286	ILE	N-CA-C	8.01	118.79	110.62
1	A	286	ILE	N-CA-C	8.01	118.79	110.62
1	P	286	ILE	N-CA-C	8.01	118.79	110.62
1	3	286	ILE	N-CA-C	8.01	118.79	110.62
1	i	286	ILE	N-CA-C	8.01	118.79	110.62
1	j	286	ILE	N-CA-C	8.01	118.79	110.62
1	v	286	ILE	N-CA-C	8.01	118.79	110.62
1	B	286	ILE	N-CA-C	8.00	118.78	110.62
1	S	286	ILE	N-CA-C	8.00	118.78	110.62
1	c	286	ILE	N-CA-C	8.00	118.78	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	286	ILE	N-CA-C	8.00	118.78	110.62
1	m	286	ILE	N-CA-C	8.00	118.78	110.62
1	o	286	ILE	N-CA-C	8.00	118.78	110.62
1	x	286	ILE	N-CA-C	8.00	118.78	110.62
1	z	286	ILE	N-CA-C	8.00	118.78	110.62
1	R	286	ILE	N-CA-C	8.00	118.78	110.62
1	Z	286	ILE	N-CA-C	8.00	118.78	110.62
1	O	286	ILE	N-CA-C	7.99	118.77	110.62
1	Q	286	ILE	N-CA-C	7.99	118.77	110.62
1	U	286	ILE	N-CA-C	7.99	118.77	110.62
1	w	286	ILE	N-CA-C	7.99	118.77	110.62
1	6	286	ILE	N-CA-C	7.99	118.77	110.62
1	M	286	ILE	N-CA-C	7.99	118.77	110.62
1	q	286	ILE	N-CA-C	7.99	118.77	110.62
1	Y	286	ILE	N-CA-C	7.98	118.76	110.62
1	D	286	ILE	N-CA-C	7.98	118.76	110.62
1	f	286	ILE	N-CA-C	7.98	118.76	110.62
1	u	286	ILE	N-CA-C	7.98	118.76	110.62
1	b	286	ILE	N-CA-C	7.98	118.75	110.62
1	K	286	ILE	N-CA-C	7.97	118.75	110.62
1	p	286	ILE	N-CA-C	7.95	118.73	110.62
1	1	286	ILE	N-CA-C	7.95	118.72	110.62
1	y	344	THR	N-CA-C	7.66	120.60	111.33
1	d	344	THR	N-CA-C	7.65	120.59	111.33
1	N	344	THR	N-CA-C	7.65	120.58	111.33
1	E	344	THR	N-CA-C	7.65	120.58	111.33
1	C	344	THR	N-CA-C	7.64	120.58	111.33
1	R	344	THR	N-CA-C	7.64	120.58	111.33
1	F	344	THR	N-CA-C	7.64	120.58	111.33
1	S	344	THR	N-CA-C	7.64	120.58	111.33
1	2	344	THR	N-CA-C	7.64	120.57	111.33
1	n	344	THR	N-CA-C	7.64	120.57	111.33
1	p	344	THR	N-CA-C	7.64	120.58	111.33
1	6	344	THR	N-CA-C	7.64	120.58	111.33
1	3	344	THR	N-CA-C	7.64	120.57	111.33
1	H	344	THR	N-CA-C	7.64	120.57	111.33
1	k	344	THR	N-CA-C	7.64	120.57	111.33
1	o	344	THR	N-CA-C	7.64	120.57	111.33
1	u	344	THR	N-CA-C	7.64	120.57	111.33
1	z	344	THR	N-CA-C	7.64	120.57	111.33
1	e	344	THR	N-CA-C	7.63	120.56	111.33
1	O	344	THR	N-CA-C	7.63	120.56	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	344	THR	N-CA-C	7.63	120.56	111.33
1	m	344	THR	N-CA-C	7.63	120.56	111.33
1	V	344	THR	N-CA-C	7.63	120.56	111.33
1	q	344	THR	N-CA-C	7.63	120.56	111.33
1	r	344	THR	N-CA-C	7.63	120.56	111.33
1	M	344	THR	N-CA-C	7.63	120.56	111.33
1	1	344	THR	N-CA-C	7.63	120.56	111.33
1	a	344	THR	N-CA-C	7.63	120.56	111.33
1	D	344	THR	N-CA-C	7.62	120.55	111.33
1	0	344	THR	N-CA-C	7.62	120.55	111.33
1	g	344	THR	N-CA-C	7.62	120.55	111.33
1	b	344	THR	N-CA-C	7.62	120.55	111.33
1	A	344	THR	N-CA-C	7.62	120.55	111.33
1	G	344	THR	N-CA-C	7.62	120.55	111.33
1	I	344	THR	N-CA-C	7.62	120.55	111.33
1	J	344	THR	N-CA-C	7.62	120.55	111.33
1	W	344	THR	N-CA-C	7.62	120.54	111.33
1	Z	344	THR	N-CA-C	7.62	120.54	111.33
1	5	344	THR	N-CA-C	7.62	120.54	111.33
1	f	344	THR	N-CA-C	7.62	120.54	111.33
1	i	344	THR	N-CA-C	7.62	120.54	111.33
1	j	344	THR	N-CA-C	7.62	120.55	111.33
1	t	344	THR	N-CA-C	7.62	120.55	111.33
1	v	344	THR	N-CA-C	7.62	120.55	111.33
1	c	344	THR	N-CA-C	7.61	120.54	111.33
1	L	344	THR	N-CA-C	7.61	120.54	111.33
1	Y	344	THR	N-CA-C	7.61	120.54	111.33
1	l	344	THR	N-CA-C	7.61	120.54	111.33
1	X	344	THR	N-CA-C	7.61	120.53	111.33
1	s	344	THR	N-CA-C	7.61	120.53	111.33
1	w	344	THR	N-CA-C	7.61	120.53	111.33
1	7	344	THR	N-CA-C	7.61	120.53	111.33
1	K	344	THR	N-CA-C	7.60	120.52	111.33
1	P	344	THR	N-CA-C	7.60	120.52	111.33
1	x	344	THR	N-CA-C	7.60	120.52	111.33
1	T	344	THR	N-CA-C	7.59	120.52	111.33
1	B	344	THR	N-CA-C	7.59	120.52	111.33
1	Q	344	THR	N-CA-C	7.59	120.52	111.33
1	h	344	THR	N-CA-C	7.59	120.52	111.33
1	4	344	THR	N-CA-C	7.57	120.49	111.33
1	I	308	ILE	CA-C-N	7.35	134.93	121.70
1	I	308	ILE	C-N-CA	7.35	134.93	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	308	ILE	CA-C-N	7.35	134.94	121.70
1	N	308	ILE	C-N-CA	7.35	134.94	121.70
1	v	308	ILE	CA-C-N	7.35	134.93	121.70
1	v	308	ILE	C-N-CA	7.35	134.93	121.70
1	e	308	ILE	CA-C-N	7.35	134.93	121.70
1	e	308	ILE	C-N-CA	7.35	134.93	121.70
1	Q	308	ILE	CA-C-N	7.34	134.91	121.70
1	Q	308	ILE	C-N-CA	7.34	134.91	121.70
1	0	308	ILE	CA-C-N	7.34	134.91	121.70
1	0	308	ILE	C-N-CA	7.34	134.91	121.70
1	r	308	ILE	CA-C-N	7.34	134.91	121.70
1	r	308	ILE	C-N-CA	7.34	134.91	121.70
1	t	308	ILE	CA-C-N	7.34	134.91	121.70
1	t	308	ILE	C-N-CA	7.34	134.91	121.70
1	x	308	ILE	CA-C-N	7.34	134.91	121.70
1	x	308	ILE	C-N-CA	7.34	134.91	121.70
1	T	308	ILE	CA-C-N	7.33	134.90	121.70
1	T	308	ILE	C-N-CA	7.33	134.90	121.70
1	3	308	ILE	CA-C-N	7.33	134.90	121.70
1	3	308	ILE	C-N-CA	7.33	134.90	121.70
1	b	308	ILE	CA-C-N	7.33	134.90	121.70
1	b	308	ILE	C-N-CA	7.33	134.90	121.70
1	i	308	ILE	CA-C-N	7.33	134.90	121.70
1	i	308	ILE	C-N-CA	7.33	134.90	121.70
1	4	308	ILE	CA-C-N	7.33	134.89	121.70
1	4	308	ILE	C-N-CA	7.33	134.89	121.70
1	G	308	ILE	CA-C-N	7.33	134.89	121.70
1	G	308	ILE	C-N-CA	7.33	134.89	121.70
1	C	308	ILE	CA-C-N	7.33	134.89	121.70
1	C	308	ILE	C-N-CA	7.33	134.89	121.70
1	E	308	ILE	CA-C-N	7.33	134.89	121.70
1	E	308	ILE	C-N-CA	7.33	134.89	121.70
1	L	308	ILE	CA-C-N	7.33	134.89	121.70
1	L	308	ILE	C-N-CA	7.33	134.89	121.70
1	M	308	ILE	CA-C-N	7.33	134.89	121.70
1	M	308	ILE	C-N-CA	7.33	134.89	121.70
1	O	308	ILE	CA-C-N	7.33	134.89	121.70
1	O	308	ILE	C-N-CA	7.33	134.89	121.70
1	W	308	ILE	CA-C-N	7.33	134.89	121.70
1	W	308	ILE	C-N-CA	7.33	134.89	121.70
1	Y	308	ILE	CA-C-N	7.33	134.89	121.70
1	Y	308	ILE	C-N-CA	7.33	134.89	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	308	ILE	CA-C-N	7.33	134.89	121.70
1	Z	308	ILE	C-N-CA	7.33	134.89	121.70
1	5	308	ILE	CA-C-N	7.33	134.89	121.70
1	5	308	ILE	C-N-CA	7.33	134.89	121.70
1	k	308	ILE	CA-C-N	7.33	134.89	121.70
1	k	308	ILE	C-N-CA	7.33	134.89	121.70
1	l	308	ILE	CA-C-N	7.33	134.89	121.70
1	l	308	ILE	C-N-CA	7.33	134.89	121.70
1	6	308	ILE	CA-C-N	7.33	134.89	121.70
1	6	308	ILE	C-N-CA	7.33	134.89	121.70
1	D	308	ILE	CA-C-N	7.32	134.88	121.70
1	D	308	ILE	C-N-CA	7.32	134.88	121.70
1	S	308	ILE	CA-C-N	7.32	134.88	121.70
1	S	308	ILE	C-N-CA	7.32	134.88	121.70
1	q	308	ILE	CA-C-N	7.32	134.88	121.70
1	q	308	ILE	C-N-CA	7.32	134.88	121.70
1	s	308	ILE	CA-C-N	7.32	134.88	121.70
1	s	308	ILE	C-N-CA	7.32	134.88	121.70
1	7	308	ILE	CA-C-N	7.32	134.88	121.70
1	7	308	ILE	C-N-CA	7.32	134.88	121.70
1	F	308	ILE	CA-C-N	7.32	134.88	121.70
1	F	308	ILE	C-N-CA	7.32	134.88	121.70
1	1	308	ILE	CA-C-N	7.32	134.88	121.70
1	1	308	ILE	C-N-CA	7.32	134.88	121.70
1	h	308	ILE	CA-C-N	7.32	134.88	121.70
1	h	308	ILE	C-N-CA	7.32	134.88	121.70
1	A	308	ILE	CA-C-N	7.32	134.88	121.70
1	A	308	ILE	C-N-CA	7.32	134.88	121.70
1	U	308	ILE	CA-C-N	7.32	134.88	121.70
1	U	308	ILE	C-N-CA	7.32	134.88	121.70
1	d	308	ILE	CA-C-N	7.32	134.88	121.70
1	d	308	ILE	C-N-CA	7.32	134.88	121.70
1	X	308	ILE	CA-C-N	7.32	134.87	121.70
1	X	308	ILE	C-N-CA	7.32	134.87	121.70
1	a	308	ILE	CA-C-N	7.31	134.86	121.70
1	a	308	ILE	C-N-CA	7.31	134.86	121.70
1	j	308	ILE	CA-C-N	7.31	134.86	121.70
1	j	308	ILE	C-N-CA	7.31	134.86	121.70
1	w	308	ILE	CA-C-N	7.31	134.86	121.70
1	w	308	ILE	C-N-CA	7.31	134.86	121.70
1	K	308	ILE	CA-C-N	7.31	134.86	121.70
1	K	308	ILE	C-N-CA	7.31	134.86	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	308	ILE	CA-C-N	7.31	134.86	121.70
1	P	308	ILE	C-N-CA	7.31	134.86	121.70
1	g	308	ILE	CA-C-N	7.31	134.85	121.70
1	g	308	ILE	C-N-CA	7.31	134.85	121.70
1	n	308	ILE	CA-C-N	7.31	134.85	121.70
1	n	308	ILE	C-N-CA	7.31	134.85	121.70
1	u	308	ILE	CA-C-N	7.31	134.85	121.70
1	u	308	ILE	C-N-CA	7.31	134.85	121.70
1	y	308	ILE	CA-C-N	7.31	134.85	121.70
1	y	308	ILE	C-N-CA	7.31	134.85	121.70
1	B	308	ILE	CA-C-N	7.30	134.85	121.70
1	B	308	ILE	C-N-CA	7.30	134.85	121.70
1	o	308	ILE	CA-C-N	7.30	134.85	121.70
1	o	308	ILE	C-N-CA	7.30	134.85	121.70
1	z	308	ILE	CA-C-N	7.30	134.85	121.70
1	z	308	ILE	C-N-CA	7.30	134.85	121.70
1	2	308	ILE	CA-C-N	7.30	134.85	121.70
1	2	308	ILE	C-N-CA	7.30	134.85	121.70
1	f	308	ILE	CA-C-N	7.30	134.85	121.70
1	f	308	ILE	C-N-CA	7.30	134.85	121.70
1	H	308	ILE	CA-C-N	7.30	134.84	121.70
1	H	308	ILE	C-N-CA	7.30	134.84	121.70
1	J	308	ILE	CA-C-N	7.30	134.84	121.70
1	J	308	ILE	C-N-CA	7.30	134.84	121.70
1	R	308	ILE	CA-C-N	7.30	134.84	121.70
1	R	308	ILE	C-N-CA	7.30	134.84	121.70
1	p	308	ILE	CA-C-N	7.29	134.82	121.70
1	p	308	ILE	C-N-CA	7.29	134.82	121.70
1	V	308	ILE	CA-C-N	7.29	134.82	121.70
1	V	308	ILE	C-N-CA	7.29	134.82	121.70
1	c	308	ILE	CA-C-N	7.29	134.81	121.70
1	c	308	ILE	C-N-CA	7.29	134.81	121.70
1	m	308	ILE	CA-C-N	7.29	134.81	121.70
1	m	308	ILE	C-N-CA	7.29	134.81	121.70
1	X	248	GLU	N-CA-C	-5.88	101.31	113.31
1	J	248	GLU	N-CA-C	-5.88	101.32	113.31
1	L	248	GLU	N-CA-C	-5.87	101.33	113.31
1	F	248	GLU	N-CA-C	-5.87	101.33	113.31
1	x	248	GLU	N-CA-C	-5.87	101.33	113.31
1	m	248	GLU	N-CA-C	-5.87	101.34	113.31
1	Q	248	GLU	N-CA-C	-5.87	101.35	113.31
1	Y	248	GLU	N-CA-C	-5.87	101.35	113.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	248	GLU	N-CA-C	-5.87	101.35	113.31
1	U	248	GLU	N-CA-C	-5.86	101.35	113.31
1	a	248	GLU	N-CA-C	-5.86	101.35	113.31
1	B	248	GLU	N-CA-C	-5.86	101.36	113.31
1	K	248	GLU	N-CA-C	-5.86	101.35	113.31
1	V	248	GLU	N-CA-C	-5.86	101.35	113.31
1	0	248	GLU	N-CA-C	-5.86	101.35	113.31
1	c	248	GLU	N-CA-C	-5.86	101.36	113.31
1	r	248	GLU	N-CA-C	-5.86	101.35	113.31
1	7	248	GLU	N-CA-C	-5.86	101.36	113.31
1	C	248	GLU	N-CA-C	-5.86	101.36	113.31
1	G	248	GLU	N-CA-C	-5.86	101.36	113.31
1	R	248	GLU	N-CA-C	-5.86	101.36	113.31
1	T	248	GLU	N-CA-C	-5.86	101.36	113.31
1	f	248	GLU	N-CA-C	-5.86	101.36	113.31
1	i	248	GLU	N-CA-C	-5.86	101.36	113.31
1	j	248	GLU	N-CA-C	-5.86	101.36	113.31
1	n	248	GLU	N-CA-C	-5.86	101.36	113.31
1	q	248	GLU	N-CA-C	-5.86	101.36	113.31
1	t	248	GLU	N-CA-C	-5.86	101.36	113.31
1	v	248	GLU	N-CA-C	-5.86	101.36	113.31
1	y	248	GLU	N-CA-C	-5.86	101.36	113.31
1	A	248	GLU	N-CA-C	-5.86	101.36	113.31
1	E	248	GLU	N-CA-C	-5.86	101.36	113.31
1	I	248	GLU	N-CA-C	-5.86	101.36	113.31
1	N	248	GLU	N-CA-C	-5.86	101.36	113.31
1	2	248	GLU	N-CA-C	-5.86	101.36	113.31
1	3	248	GLU	N-CA-C	-5.86	101.36	113.31
1	5	248	GLU	N-CA-C	-5.86	101.36	113.31
1	k	248	GLU	N-CA-C	-5.86	101.36	113.31
1	O	248	GLU	N-CA-C	-5.85	101.37	113.31
1	W	248	GLU	N-CA-C	-5.85	101.37	113.31
1	b	248	GLU	N-CA-C	-5.85	101.37	113.31
1	e	248	GLU	N-CA-C	-5.85	101.38	113.31
1	g	248	GLU	N-CA-C	-5.85	101.38	113.31
1	l	248	GLU	N-CA-C	-5.85	101.38	113.31
1	M	248	GLU	N-CA-C	-5.84	101.39	113.31
1	S	248	GLU	N-CA-C	-5.84	101.39	113.31
1	o	248	GLU	N-CA-C	-5.84	101.39	113.31
1	p	248	GLU	N-CA-C	-5.84	101.39	113.31
1	s	248	GLU	N-CA-C	-5.84	101.39	113.31
1	z	248	GLU	N-CA-C	-5.84	101.39	113.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	248	GLU	N-CA-C	-5.84	101.39	113.31
1	D	248	GLU	N-CA-C	-5.84	101.39	113.31
1	P	248	GLU	N-CA-C	-5.84	101.39	113.31
1	1	248	GLU	N-CA-C	-5.84	101.39	113.31
1	4	248	GLU	N-CA-C	-5.84	101.39	113.31
1	d	248	GLU	N-CA-C	-5.84	101.39	113.31
1	w	248	GLU	N-CA-C	-5.84	101.39	113.31
1	h	248	GLU	N-CA-C	-5.84	101.40	113.31
1	H	248	GLU	N-CA-C	-5.83	101.41	113.31
1	u	248	GLU	N-CA-C	-5.83	101.42	113.31
1	T	225	ASP	CA-C-N	5.62	131.82	121.70
1	T	225	ASP	C-N-CA	5.62	131.82	121.70
1	3	225	ASP	CA-C-N	5.62	131.82	121.70
1	3	225	ASP	C-N-CA	5.62	131.82	121.70
1	e	429	ARG	N-CA-C	5.62	117.41	111.28
1	n	429	ARG	N-CA-C	5.62	117.41	111.28
1	J	225	ASP	CA-C-N	5.62	131.81	121.70
1	J	225	ASP	C-N-CA	5.62	131.81	121.70
1	U	225	ASP	CA-C-N	5.62	131.81	121.70
1	U	225	ASP	C-N-CA	5.62	131.81	121.70
1	R	225	ASP	CA-C-N	5.62	131.81	121.70
1	R	225	ASP	C-N-CA	5.62	131.81	121.70
1	v	429	ARG	N-CA-C	5.61	117.40	111.28
1	4	225	ASP	CA-C-N	5.61	131.80	121.70
1	4	225	ASP	C-N-CA	5.61	131.80	121.70
1	O	225	ASP	CA-C-N	5.61	131.79	121.70
1	O	225	ASP	C-N-CA	5.61	131.79	121.70
1	a	225	ASP	CA-C-N	5.61	131.79	121.70
1	a	225	ASP	C-N-CA	5.61	131.79	121.70
1	I	225	ASP	CA-C-N	5.60	131.79	121.70
1	I	225	ASP	C-N-CA	5.60	131.79	121.70
1	X	429	ARG	N-CA-C	5.60	117.39	111.28
1	q	429	ARG	N-CA-C	5.60	117.39	111.28
1	7	429	ARG	N-CA-C	5.60	117.39	111.28
1	B	429	ARG	N-CA-C	5.60	117.38	111.28
1	C	429	ARG	N-CA-C	5.60	117.38	111.28
1	k	225	ASP	CA-C-N	5.60	131.78	121.70
1	k	225	ASP	C-N-CA	5.60	131.78	121.70
1	l	225	ASP	CA-C-N	5.60	131.78	121.70
1	l	225	ASP	C-N-CA	5.60	131.78	121.70
1	o	429	ARG	N-CA-C	5.60	117.38	111.28
1	y	225	ASP	CA-C-N	5.60	131.78	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	225	ASP	C-N-CA	5.60	131.78	121.70
1	W	225	ASP	CA-C-N	5.60	131.77	121.70
1	W	225	ASP	C-N-CA	5.60	131.77	121.70
1	i	225	ASP	CA-C-N	5.59	131.77	121.70
1	i	225	ASP	C-N-CA	5.59	131.77	121.70
1	D	225	ASP	CA-C-N	5.59	131.76	121.70
1	D	225	ASP	C-N-CA	5.59	131.76	121.70
1	P	225	ASP	CA-C-N	5.59	131.76	121.70
1	P	225	ASP	C-N-CA	5.59	131.76	121.70
1	X	225	ASP	CA-C-N	5.59	131.76	121.70
1	X	225	ASP	C-N-CA	5.59	131.76	121.70
1	0	225	ASP	CA-C-N	5.59	131.76	121.70
1	0	225	ASP	C-N-CA	5.59	131.76	121.70
1	r	225	ASP	CA-C-N	5.59	131.76	121.70
1	r	225	ASP	C-N-CA	5.59	131.76	121.70
1	v	225	ASP	CA-C-N	5.59	131.77	121.70
1	v	225	ASP	C-N-CA	5.59	131.77	121.70
1	F	429	ARG	N-CA-C	5.59	117.37	111.28
1	O	429	ARG	N-CA-C	5.59	117.37	111.28
1	W	429	ARG	N-CA-C	5.59	117.37	111.28
1	0	429	ARG	N-CA-C	5.59	117.37	111.28
1	r	429	ARG	N-CA-C	5.59	117.37	111.28
1	s	429	ARG	N-CA-C	5.59	117.37	111.28
1	R	429	ARG	N-CA-C	5.59	117.37	111.28
1	Y	429	ARG	N-CA-C	5.59	117.37	111.28
1	g	429	ARG	N-CA-C	5.59	117.37	111.28
1	l	429	ARG	N-CA-C	5.59	117.37	111.28
1	y	429	ARG	N-CA-C	5.59	117.37	111.28
1	A	225	ASP	CA-C-N	5.59	131.76	121.70
1	A	225	ASP	C-N-CA	5.59	131.76	121.70
1	H	225	ASP	CA-C-N	5.59	131.75	121.70
1	H	225	ASP	C-N-CA	5.59	131.75	121.70
1	K	429	ARG	N-CA-C	5.59	117.37	111.28
1	S	225	ASP	CA-C-N	5.59	131.75	121.70
1	S	225	ASP	C-N-CA	5.59	131.75	121.70
1	Y	225	ASP	CA-C-N	5.59	131.76	121.70
1	Y	225	ASP	C-N-CA	5.59	131.76	121.70
1	m	225	ASP	CA-C-N	5.59	131.75	121.70
1	m	225	ASP	C-N-CA	5.59	131.75	121.70
1	m	429	ARG	N-CA-C	5.59	117.37	111.28
1	n	225	ASP	CA-C-N	5.59	131.76	121.70
1	n	225	ASP	C-N-CA	5.59	131.76	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	225	ASP	CA-C-N	5.59	131.75	121.70
1	o	225	ASP	C-N-CA	5.59	131.75	121.70
1	x	225	ASP	CA-C-N	5.59	131.75	121.70
1	x	225	ASP	C-N-CA	5.59	131.75	121.70
1	z	225	ASP	CA-C-N	5.59	131.75	121.70
1	z	225	ASP	C-N-CA	5.59	131.75	121.70
1	B	225	ASP	CA-C-N	5.58	131.75	121.70
1	B	225	ASP	C-N-CA	5.58	131.75	121.70
1	F	225	ASP	CA-C-N	5.58	131.75	121.70
1	F	225	ASP	C-N-CA	5.58	131.75	121.70
1	G	225	ASP	CA-C-N	5.58	131.75	121.70
1	G	225	ASP	C-N-CA	5.58	131.75	121.70
1	S	429	ARG	N-CA-C	5.58	117.37	111.28
1	1	429	ARG	N-CA-C	5.58	117.37	111.28
1	2	225	ASP	CA-C-N	5.58	131.75	121.70
1	2	225	ASP	C-N-CA	5.58	131.75	121.70
1	5	225	ASP	CA-C-N	5.58	131.75	121.70
1	5	225	ASP	C-N-CA	5.58	131.75	121.70
1	c	225	ASP	CA-C-N	5.58	131.75	121.70
1	c	225	ASP	C-N-CA	5.58	131.75	121.70
1	h	225	ASP	CA-C-N	5.58	131.75	121.70
1	h	225	ASP	C-N-CA	5.58	131.75	121.70
1	h	429	ARG	N-CA-C	5.58	117.37	111.28
1	j	225	ASP	CA-C-N	5.58	131.75	121.70
1	j	225	ASP	C-N-CA	5.58	131.75	121.70
1	t	225	ASP	CA-C-N	5.58	131.75	121.70
1	t	225	ASP	C-N-CA	5.58	131.75	121.70
1	u	225	ASP	CA-C-N	5.58	131.75	121.70
1	u	225	ASP	C-N-CA	5.58	131.75	121.70
1	G	429	ARG	N-CA-C	5.58	117.36	111.28
1	I	429	ARG	N-CA-C	5.58	117.36	111.28
1	N	225	ASP	CA-C-N	5.58	131.75	121.70
1	N	225	ASP	C-N-CA	5.58	131.75	121.70
1	T	429	ARG	N-CA-C	5.58	117.36	111.28
1	V	225	ASP	CA-C-N	5.58	131.75	121.70
1	V	225	ASP	C-N-CA	5.58	131.75	121.70
1	i	429	ARG	N-CA-C	5.58	117.36	111.28
1	s	225	ASP	CA-C-N	5.58	131.75	121.70
1	s	225	ASP	C-N-CA	5.58	131.75	121.70
1	7	225	ASP	CA-C-N	5.58	131.75	121.70
1	7	225	ASP	C-N-CA	5.58	131.75	121.70
1	Q	429	ARG	N-CA-C	5.58	117.36	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	429	ARG	N-CA-C	5.58	117.36	111.28
1	1	225	ASP	CA-C-N	5.58	131.75	121.70
1	1	225	ASP	C-N-CA	5.58	131.75	121.70
1	b	429	ARG	N-CA-C	5.58	117.36	111.28
1	C	225	ASP	CA-C-N	5.58	131.74	121.70
1	C	225	ASP	C-N-CA	5.58	131.74	121.70
1	L	429	ARG	N-CA-C	5.58	117.36	111.28
1	Z	225	ASP	CA-C-N	5.58	131.74	121.70
1	Z	225	ASP	C-N-CA	5.58	131.74	121.70
1	b	225	ASP	CA-C-N	5.58	131.74	121.70
1	b	225	ASP	C-N-CA	5.58	131.74	121.70
1	e	225	ASP	CA-C-N	5.58	131.74	121.70
1	e	225	ASP	C-N-CA	5.58	131.74	121.70
1	g	225	ASP	CA-C-N	5.58	131.74	121.70
1	g	225	ASP	C-N-CA	5.58	131.74	121.70
1	E	429	ARG	N-CA-C	5.58	117.36	111.28
1	U	429	ARG	N-CA-C	5.58	117.36	111.28
1	k	429	ARG	N-CA-C	5.58	117.36	111.28
1	p	429	ARG	N-CA-C	5.58	117.36	111.28
1	w	225	ASP	CA-C-N	5.58	131.74	121.70
1	w	225	ASP	C-N-CA	5.58	131.74	121.70
1	w	429	ARG	N-CA-C	5.58	117.36	111.28
1	6	429	ARG	N-CA-C	5.58	117.36	111.28
1	A	429	ARG	N-CA-C	5.58	117.36	111.28
1	L	225	ASP	CA-C-N	5.58	131.74	121.70
1	L	225	ASP	C-N-CA	5.58	131.74	121.70
1	f	225	ASP	CA-C-N	5.58	131.74	121.70
1	f	225	ASP	C-N-CA	5.58	131.74	121.70
1	J	429	ARG	N-CA-C	5.57	117.35	111.28
1	M	429	ARG	N-CA-C	5.57	117.35	111.28
1	5	429	ARG	N-CA-C	5.57	117.35	111.28
1	a	429	ARG	N-CA-C	5.57	117.35	111.28
1	d	429	ARG	N-CA-C	5.57	117.35	111.28
1	V	429	ARG	N-CA-C	5.57	117.35	111.28
1	d	225	ASP	CA-C-N	5.57	131.72	121.70
1	d	225	ASP	C-N-CA	5.57	131.72	121.70
1	2	429	ARG	N-CA-C	5.56	117.34	111.28
1	3	429	ARG	N-CA-C	5.56	117.34	111.28
1	f	429	ARG	N-CA-C	5.56	117.34	111.28
1	j	429	ARG	N-CA-C	5.56	117.34	111.28
1	t	429	ARG	N-CA-C	5.56	117.34	111.28
1	u	429	ARG	N-CA-C	5.56	117.34	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	x	429	ARG	N-CA-C	5.56	117.34	111.28
1	D	429	ARG	N-CA-C	5.56	117.34	111.28
1	E	225	ASP	CA-C-N	5.56	131.71	121.70
1	E	225	ASP	C-N-CA	5.56	131.71	121.70
1	K	225	ASP	CA-C-N	5.56	131.71	121.70
1	K	225	ASP	C-N-CA	5.56	131.71	121.70
1	M	225	ASP	CA-C-N	5.56	131.71	121.70
1	M	225	ASP	C-N-CA	5.56	131.71	121.70
1	4	429	ARG	N-CA-C	5.56	117.34	111.28
1	p	225	ASP	CA-C-N	5.56	131.71	121.70
1	p	225	ASP	C-N-CA	5.56	131.71	121.70
1	6	225	ASP	CA-C-N	5.56	131.71	121.70
1	6	225	ASP	C-N-CA	5.56	131.71	121.70
1	P	429	ARG	N-CA-C	5.56	117.34	111.28
1	Q	225	ASP	CA-C-N	5.56	131.70	121.70
1	Q	225	ASP	C-N-CA	5.56	131.70	121.70
1	q	225	ASP	CA-C-N	5.55	131.70	121.70
1	q	225	ASP	C-N-CA	5.55	131.70	121.70
1	H	429	ARG	N-CA-C	5.55	117.33	111.28
1	c	429	ARG	N-CA-C	5.55	117.33	111.28
1	z	429	ARG	N-CA-C	5.54	117.32	111.28
1	N	429	ARG	N-CA-C	5.53	117.31	111.28
1	T	433	HIS	N-CA-C	5.43	118.10	110.23
1	i	433	HIS	N-CA-C	5.43	118.10	110.23
1	4	433	HIS	N-CA-C	5.42	118.09	110.23
1	r	433	HIS	N-CA-C	5.42	118.09	110.23
1	0	433	HIS	N-CA-C	5.42	118.08	110.23
1	Q	433	HIS	N-CA-C	5.41	118.08	110.23
1	Y	433	HIS	N-CA-C	5.41	118.08	110.23
1	e	433	HIS	N-CA-C	5.41	118.08	110.23
1	y	433	HIS	N-CA-C	5.41	118.08	110.23
1	v	433	HIS	N-CA-C	5.41	118.08	110.23
1	M	433	HIS	N-CA-C	5.41	118.07	110.23
1	k	433	HIS	N-CA-C	5.41	118.07	110.23
1	q	433	HIS	N-CA-C	5.41	118.07	110.23
1	s	433	HIS	N-CA-C	5.41	118.07	110.23
1	7	433	HIS	N-CA-C	5.41	118.07	110.23
1	C	433	HIS	N-CA-C	5.41	118.07	110.23
1	Z	433	HIS	N-CA-C	5.41	118.07	110.23
1	L	433	HIS	N-CA-C	5.40	118.06	110.23
1	3	433	HIS	N-CA-C	5.40	118.06	110.23
1	d	433	HIS	N-CA-C	5.40	118.06	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	433	HIS	N-CA-C	5.40	118.06	110.23
1	l	433	HIS	N-CA-C	5.40	118.06	110.23
1	m	433	HIS	N-CA-C	5.40	118.06	110.23
1	H	433	HIS	N-CA-C	5.40	118.06	110.23
1	S	433	HIS	N-CA-C	5.40	118.06	110.23
1	o	433	HIS	N-CA-C	5.40	118.06	110.23
1	x	433	HIS	N-CA-C	5.40	118.06	110.23
1	z	433	HIS	N-CA-C	5.40	118.06	110.23
1	E	433	HIS	N-CA-C	5.40	118.06	110.23
1	O	433	HIS	N-CA-C	5.40	118.06	110.23
1	U	433	HIS	N-CA-C	5.40	118.06	110.23
1	5	433	HIS	N-CA-C	5.40	118.06	110.23
1	p	433	HIS	N-CA-C	5.40	118.06	110.23
1	g	433	HIS	N-CA-C	5.40	118.06	110.23
1	A	433	HIS	N-CA-C	5.39	118.05	110.23
1	B	433	HIS	N-CA-C	5.39	118.05	110.23
1	b	433	HIS	N-CA-C	5.39	118.05	110.23
1	h	433	HIS	N-CA-C	5.39	118.04	110.23
1	W	433	HIS	N-CA-C	5.39	118.04	110.23
1	n	433	HIS	N-CA-C	5.39	118.04	110.23
1	w	433	HIS	N-CA-C	5.39	118.04	110.23
1	6	433	HIS	N-CA-C	5.39	118.04	110.23
1	D	433	HIS	N-CA-C	5.39	118.04	110.23
1	K	433	HIS	N-CA-C	5.39	118.04	110.23
1	N	433	HIS	N-CA-C	5.39	118.04	110.23
1	P	433	HIS	N-CA-C	5.39	118.04	110.23
1	V	433	HIS	N-CA-C	5.39	118.04	110.23
1	X	433	HIS	N-CA-C	5.39	118.04	110.23
1	a	433	HIS	N-CA-C	5.39	118.04	110.23
1	f	433	HIS	N-CA-C	5.39	118.04	110.23
1	F	433	HIS	N-CA-C	5.38	118.04	110.23
1	2	433	HIS	N-CA-C	5.38	118.04	110.23
1	c	433	HIS	N-CA-C	5.38	118.04	110.23
1	t	433	HIS	N-CA-C	5.38	118.04	110.23
1	G	433	HIS	N-CA-C	5.38	118.03	110.23
1	R	433	HIS	N-CA-C	5.38	118.03	110.23
1	1	433	HIS	N-CA-C	5.38	118.03	110.23
1	J	433	HIS	N-CA-C	5.37	118.01	110.23
1	I	433	HIS	N-CA-C	5.36	118.00	110.23
1	u	433	HIS	N-CA-C	5.36	118.00	110.23
1	F	560	GLY	N-CA-C	5.09	128.06	113.30
1	g	560	GLY	N-CA-C	5.09	128.06	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	560	GLY	N-CA-C	5.09	128.06	113.30
1	l	560	GLY	N-CA-C	5.09	128.06	113.30
1	x	560	GLY	N-CA-C	5.09	128.06	113.30
1	D	560	GLY	N-CA-C	5.09	128.06	113.30
1	P	560	GLY	N-CA-C	5.09	128.06	113.30
1	Q	560	GLY	N-CA-C	5.09	128.06	113.30
1	f	560	GLY	N-CA-C	5.09	128.06	113.30
1	q	560	GLY	N-CA-C	5.09	128.06	113.30
1	t	560	GLY	N-CA-C	5.09	128.06	113.30
1	v	560	GLY	N-CA-C	5.09	128.06	113.30
1	K	560	GLY	N-CA-C	5.09	128.06	113.30
1	0	560	GLY	N-CA-C	5.09	128.06	113.30
1	H	560	GLY	N-CA-C	5.09	128.05	113.30
1	c	560	GLY	N-CA-C	5.09	128.05	113.30
1	m	560	GLY	N-CA-C	5.09	128.05	113.30
1	b	560	GLY	N-CA-C	5.08	128.05	113.30
1	C	560	GLY	N-CA-C	5.08	128.04	113.30
1	E	560	GLY	N-CA-C	5.08	128.04	113.30
1	L	560	GLY	N-CA-C	5.08	128.04	113.30
1	M	560	GLY	N-CA-C	5.08	128.04	113.30
1	N	560	GLY	N-CA-C	5.08	128.04	113.30
1	O	560	GLY	N-CA-C	5.08	128.04	113.30
1	R	560	GLY	N-CA-C	5.08	128.04	113.30
1	T	560	GLY	N-CA-C	5.08	128.04	113.30
1	V	560	GLY	N-CA-C	5.08	128.04	113.30
1	W	560	GLY	N-CA-C	5.08	128.04	113.30
1	5	560	GLY	N-CA-C	5.08	128.04	113.30
1	k	560	GLY	N-CA-C	5.08	128.04	113.30
1	n	560	GLY	N-CA-C	5.08	128.04	113.30
1	p	560	GLY	N-CA-C	5.08	128.04	113.30
1	y	560	GLY	N-CA-C	5.08	128.04	113.30
1	6	560	GLY	N-CA-C	5.08	128.04	113.30
1	G	560	GLY	N-CA-C	5.08	128.03	113.30
1	Z	560	GLY	N-CA-C	5.08	128.03	113.30
1	3	560	GLY	N-CA-C	5.08	128.04	113.30
1	A	560	GLY	N-CA-C	5.08	128.03	113.30
1	1	560	GLY	N-CA-C	5.08	128.03	113.30
1	i	560	GLY	N-CA-C	5.08	128.02	113.30
1	j	560	GLY	N-CA-C	5.08	128.02	113.30
1	s	560	GLY	N-CA-C	5.08	128.02	113.30
1	u	560	GLY	N-CA-C	5.08	128.02	113.30
1	J	560	GLY	N-CA-C	5.08	128.02	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	560	GLY	N-CA-C	5.08	128.02	113.30
1	d	560	GLY	N-CA-C	5.08	128.02	113.30
1	w	560	GLY	N-CA-C	5.08	128.02	113.30
1	z	560	GLY	N-CA-C	5.08	128.02	113.30
1	B	560	GLY	N-CA-C	5.07	128.01	113.30
1	Y	560	GLY	N-CA-C	5.07	128.01	113.30
1	2	560	GLY	N-CA-C	5.07	128.00	113.30
1	e	560	GLY	N-CA-C	5.07	128.00	113.30
1	a	560	GLY	N-CA-C	5.07	128.00	113.30
1	o	560	GLY	N-CA-C	5.07	128.00	113.30
1	X	560	GLY	N-CA-C	5.07	127.99	113.30
1	7	560	GLY	N-CA-C	5.07	127.99	113.30
1	I	560	GLY	N-CA-C	5.06	127.99	113.30
1	4	560	GLY	N-CA-C	5.06	127.99	113.30
1	r	560	GLY	N-CA-C	5.06	127.99	113.30
1	S	560	GLY	N-CA-C	5.06	127.98	113.30

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	382	ASN	Peptide
1	0	68	MET	Peptide
1	1	382	ASN	Peptide
1	1	68	MET	Peptide
1	2	382	ASN	Peptide
1	2	68	MET	Peptide
1	3	382	ASN	Peptide
1	3	68	MET	Peptide
1	4	382	ASN	Peptide
1	4	68	MET	Peptide
1	5	382	ASN	Peptide
1	5	68	MET	Peptide
1	6	382	ASN	Peptide
1	6	68	MET	Peptide
1	7	382	ASN	Peptide
1	7	68	MET	Peptide
1	A	382	ASN	Peptide
1	A	68	MET	Peptide
1	B	382	ASN	Peptide
1	B	68	MET	Peptide
1	C	382	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	C	68	MET	Peptide
1	D	382	ASN	Peptide
1	D	68	MET	Peptide
1	E	382	ASN	Peptide
1	E	68	MET	Peptide
1	F	382	ASN	Peptide
1	F	68	MET	Peptide
1	G	382	ASN	Peptide
1	G	68	MET	Peptide
1	H	382	ASN	Peptide
1	H	68	MET	Peptide
1	I	382	ASN	Peptide
1	I	68	MET	Peptide
1	J	382	ASN	Peptide
1	J	68	MET	Peptide
1	K	382	ASN	Peptide
1	K	68	MET	Peptide
1	L	382	ASN	Peptide
1	L	68	MET	Peptide
1	M	382	ASN	Peptide
1	M	68	MET	Peptide
1	N	382	ASN	Peptide
1	N	68	MET	Peptide
1	O	382	ASN	Peptide
1	O	68	MET	Peptide
1	P	382	ASN	Peptide
1	P	68	MET	Peptide
1	Q	382	ASN	Peptide
1	Q	68	MET	Peptide
1	R	382	ASN	Peptide
1	R	68	MET	Peptide
1	S	382	ASN	Peptide
1	S	68	MET	Peptide
1	T	382	ASN	Peptide
1	T	68	MET	Peptide
1	U	382	ASN	Peptide
1	U	68	MET	Peptide
1	V	382	ASN	Peptide
1	V	68	MET	Peptide
1	W	382	ASN	Peptide
1	W	68	MET	Peptide
1	X	382	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	X	68	MET	Peptide
1	Y	382	ASN	Peptide
1	Y	68	MET	Peptide
1	Z	382	ASN	Peptide
1	Z	68	MET	Peptide
1	a	382	ASN	Peptide
1	a	68	MET	Peptide
1	b	382	ASN	Peptide
1	b	68	MET	Peptide
1	c	382	ASN	Peptide
1	c	68	MET	Peptide
1	d	382	ASN	Peptide
1	d	68	MET	Peptide
1	e	382	ASN	Peptide
1	e	68	MET	Peptide
1	f	382	ASN	Peptide
1	f	68	MET	Peptide
1	g	382	ASN	Peptide
1	g	68	MET	Peptide
1	h	382	ASN	Peptide
1	h	68	MET	Peptide
1	i	382	ASN	Peptide
1	i	68	MET	Peptide
1	j	382	ASN	Peptide
1	j	68	MET	Peptide
1	k	382	ASN	Peptide
1	k	68	MET	Peptide
1	l	382	ASN	Peptide
1	l	68	MET	Peptide
1	m	382	ASN	Peptide
1	m	68	MET	Peptide
1	n	382	ASN	Peptide
1	n	68	MET	Peptide
1	o	382	ASN	Peptide
1	o	68	MET	Peptide
1	p	382	ASN	Peptide
1	p	68	MET	Peptide
1	q	382	ASN	Peptide
1	q	68	MET	Peptide
1	r	382	ASN	Peptide
1	r	68	MET	Peptide
1	s	382	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	s	68	MET	Peptide
1	t	382	ASN	Peptide
1	t	68	MET	Peptide
1	u	382	ASN	Peptide
1	u	68	MET	Peptide
1	v	382	ASN	Peptide
1	v	68	MET	Peptide
1	w	382	ASN	Peptide
1	w	68	MET	Peptide
1	x	382	ASN	Peptide
1	x	68	MET	Peptide
1	y	382	ASN	Peptide
1	y	68	MET	Peptide
1	z	382	ASN	Peptide
1	z	68	MET	Peptide

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	0	4326	0	4014	467	0
1	1	4326	0	4013	456	0
1	2	4326	0	4014	462	0
1	3	4326	0	4014	470	0
1	4	4326	0	4013	463	0
1	5	4326	0	4013	463	0
1	6	4326	0	4014	456	0
1	7	4326	0	4013	465	0
1	A	4326	0	4014	462	0
1	B	4326	0	4013	466	0
1	C	4326	0	4014	465	0
1	D	4326	0	4013	459	0
1	E	4326	0	4014	461	0
1	F	4326	0	4013	454	0
1	G	4326	0	4014	458	0
1	H	4326	0	4013	470	0
1	I	4326	0	4014	463	0
1	J	4326	0	4013	461	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	K	4326	0	4013	464	0
1	L	4326	0	4014	467	0
1	M	4326	0	4014	466	0
1	N	4326	0	4014	464	0
1	O	4326	0	4014	466	0
1	P	4326	0	4013	463	0
1	Q	4326	0	4014	464	0
1	R	4326	0	4014	461	0
1	S	4326	0	4013	454	0
1	T	4326	0	4014	462	0
1	U	4326	0	4014	461	0
1	V	4326	0	4014	469	0
1	W	4326	0	4014	468	0
1	X	4326	0	4013	463	0
1	Y	4326	0	4014	464	0
1	Z	4326	0	4014	464	0
1	a	4326	0	4013	463	0
1	b	4326	0	4014	470	0
1	c	4326	0	4013	456	0
1	d	4326	0	4013	465	0
1	e	4326	0	4014	469	0
1	f	4326	0	4014	459	0
1	g	4326	0	4014	462	0
1	h	4326	0	4014	466	0
1	i	4326	0	4014	461	0
1	j	4326	0	4014	466	0
1	k	4326	0	4014	465	0
1	l	4326	0	4014	461	0
1	m	4326	0	4014	465	0
1	n	4326	0	4014	465	0
1	o	4326	0	4013	456	0
1	p	4326	0	4014	462	0
1	q	4326	0	4014	459	0
1	r	4326	0	4014	463	0
1	s	4326	0	4013	465	0
1	t	4326	0	4014	464	0
1	u	4326	0	4014	461	0
1	v	4326	0	4014	458	0
1	w	4326	0	4014	463	0
1	x	4326	0	4013	467	0
1	y	4326	0	4014	460	0
1	z	4326	0	4013	450	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	259560	0	240820	21372	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 43.

All (21372) 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:X:34:VAL:N	1:5:36:HIS:CE1	1.71	1.58
1:a:34:VAL:N	1:e:36:HIS:CE1	1.71	1.58
1:J:36:HIS:CE1	1:0:34:VAL:N	1.72	1.58
1:p:34:VAL:H	1:u:36:HIS:CE1	1.22	1.58
1:h:34:VAL:H	1:l:36:HIS:CE1	1.22	1.58
1:g:36:HIS:CE1	1:m:34:VAL:H	1.22	1.57
1:A:34:VAL:H	1:B:36:HIS:CE1	1.22	1.57
1:d:34:VAL:N	1:f:36:HIS:CE1	1.72	1.57
1:B:34:VAL:N	1:C:36:HIS:CE1	1.72	1.57
1:D:34:VAL:N	1:E:36:HIS:CE1	1.72	1.57
1:U:36:HIS:CE1	1:4:34:VAL:N	1.72	1.56
1:p:36:HIS:CE1	1:q:34:VAL:N	1.72	1.56
1:F:36:HIS:CE1	1:G:34:VAL:N	1.72	1.56
1:K:34:VAL:N	1:6:36:HIS:CE1	1.72	1.56
1:5:34:VAL:N	1:t:36:HIS:CE1	1.71	1.56
1:H:36:HIS:CE1	1:I:34:VAL:N	1.72	1.56
1:L:36:HIS:CE1	1:1:34:VAL:N	1.72	1.56
1:N:36:HIS:CE1	1:g:34:VAL:H	1.23	1.56
1:l:34:VAL:H	1:r:36:HIS:CE1	1.23	1.56
1:o:36:HIS:CE1	1:v:34:VAL:N	1.72	1.56
1:t:34:VAL:N	1:x:36:HIS:CE1	1.73	1.56
1:F:34:VAL:N	1:R:36:HIS:CE1	1.72	1.56
1:H:34:VAL:N	1:Z:36:HIS:CE1	1.72	1.56
1:o:34:VAL:N	1:y:36:HIS:CE1	1.72	1.56
1:A:36:HIS:CE1	1:E:34:VAL:H	1.24	1.56
1:O:36:HIS:CE1	1:P:34:VAL:N	1.71	1.56
1:Y:36:HIS:CE1	1:x:34:VAL:N	1.72	1.56
1:y:34:VAL:H	1:7:36:HIS:CE1	1.23	1.56
1:I:36:HIS:CE1	1:J:34:VAL:N	1.72	1.55
1:R:34:VAL:H	1:V:36:HIS:CE1	1.23	1.55
1:k:36:HIS:CE1	1:s:34:VAL:N	1.72	1.55
1:n:34:VAL:N	1:s:36:HIS:CE1	1.73	1.55
1:o:36:HIS:CE1	1:v:34:VAL:H	1.23	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:36:HIS:CE1	1:G:34:VAL:H	1.23	1.54
1:M:34:VAL:H	1:2:36:HIS:CE1	1.22	1.54
1:C:34:VAL:H	1:D:36:HIS:CE1	1.23	1.54
1:M:36:HIS:CE1	1:N:34:VAL:N	1.72	1.54
1:P:36:HIS:CE1	1:Q:34:VAL:N	1.73	1.54
1:i:36:HIS:CE1	1:6:34:VAL:H	1.22	1.54
1:R:34:VAL:N	1:V:36:HIS:CE1	1.73	1.54
1:f:34:VAL:H	1:h:36:HIS:CE1	1.22	1.54
1:T:36:HIS:CE1	1:U:34:VAL:H	1.22	1.54
1:d:36:HIS:CE1	1:r:34:VAL:N	1.72	1.54
1:e:34:VAL:N	1:q:36:HIS:CE1	1.73	1.54
1:v:36:HIS:CE1	1:w:34:VAL:N	1.72	1.54
1:y:34:VAL:N	1:7:36:HIS:CE1	1.73	1.54
1:C:34:VAL:N	1:D:36:HIS:CE1	1.73	1.54
1:G:36:HIS:CE1	1:W:34:VAL:N	1.72	1.54
1:b:36:HIS:CE1	1:c:34:VAL:N	1.68	1.54
1:e:34:VAL:H	1:q:36:HIS:CE1	1.23	1.54
1:S:36:HIS:CE1	1:3:34:VAL:H	1.23	1.53
1:j:34:VAL:N	1:z:36:HIS:CE1	1.73	1.53
1:n:34:VAL:H	1:s:36:HIS:CE1	1.23	1.53
1:P:36:HIS:CE1	1:Q:34:VAL:H	1.23	1.53
1:j:34:VAL:H	1:z:36:HIS:CE1	1.23	1.53
1:S:36:HIS:CE1	1:3:34:VAL:N	1.72	1.53
1:2:34:VAL:H	1:m:36:HIS:CE1	1.23	1.53
1:Q:36:HIS:CE1	1:S:34:VAL:N	1.72	1.53
1:v:36:HIS:CE1	1:w:34:VAL:H	1.22	1.52
1:G:36:HIS:CE1	1:W:34:VAL:H	1.22	1.52
1:n:36:HIS:CE1	1:z:34:VAL:N	1.72	1.52
1:V:34:VAL:H	1:W:36:HIS:CE1	1.22	1.52
1:V:34:VAL:N	1:W:36:HIS:CE1	1.72	1.51
1:i:36:HIS:CE1	1:6:34:VAL:N	1.72	1.51
1:1:36:HIS:CE1	1:i:34:VAL:N	1.72	1.51
1:T:34:VAL:N	1:c:36:HIS:CE1	1.72	1.51
1:T:36:HIS:CE1	1:U:34:VAL:N	1.72	1.51
1:w:36:HIS:CE1	1:7:34:VAL:N	1.72	1.51
1:N:36:HIS:CE1	1:g:34:VAL:N	1.73	1.51
1:H:36:HIS:CE1	1:I:34:VAL:H	1.23	1.51
1:l:34:VAL:N	1:r:36:HIS:CE1	1.73	1.51
1:t:34:VAL:H	1:x:36:HIS:CE1	1.23	1.51
1:X:36:HIS:CE1	1:Y:34:VAL:H	1.23	1.50
1:X:36:HIS:CE1	1:Y:34:VAL:N	1.73	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:36:HIS:HE1	1:g:34:VAL:N	1.02	1.50
1:Z:34:VAL:N	1:0:36:HIS:CE1	1.73	1.50
1:Z:34:VAL:H	1:0:36:HIS:CE1	1.23	1.50
1:g:36:HIS:CE1	1:m:34:VAL:N	1.72	1.50
1:h:34:VAL:N	1:l:36:HIS:CE1	1.72	1.50
1:l:34:VAL:N	1:r:36:HIS:HE1	1.03	1.50
1:M:36:HIS:CE1	1:N:34:VAL:H	1.22	1.50
1:A:34:VAL:N	1:B:36:HIS:HE1	1.00	1.50
1:a:36:HIS:HE1	1:u:34:VAL:N	1.02	1.50
1:d:36:HIS:CE1	1:r:34:VAL:H	1.22	1.49
1:J:36:HIS:CE1	1:0:34:VAL:H	1.22	1.49
1:L:36:HIS:HE1	1:1:34:VAL:N	1.01	1.49
1:n:34:VAL:N	1:s:36:HIS:HE1	1.03	1.49
1:P:36:HIS:HE1	1:Q:34:VAL:N	1.03	1.49
1:T:34:VAL:H	1:c:36:HIS:CE1	1.23	1.49
1:X:34:VAL:N	1:5:36:HIS:HE1	1.01	1.49
1:O:36:HIS:HE1	1:P:34:VAL:N	1.01	1.49
1:a:36:HIS:CE1	1:u:34:VAL:N	1.73	1.49
1:k:36:HIS:HE1	1:s:34:VAL:N	1.01	1.49
1:O:34:VAL:H	1:3:36:HIS:CE1	1.22	1.48
1:1:36:HIS:CE1	1:i:34:VAL:H	1.23	1.48
1:c:98:ASN:HB3	1:e:316:ARG:NH2	1.28	1.48
1:A:34:VAL:N	1:B:36:HIS:CE1	1.72	1.48
1:C:316:ARG:NH2	1:1:98:ASN:HB3	1.28	1.48
1:K:36:HIS:CE1	1:L:34:VAL:H	1.23	1.48
1:q:316:ARG:NH2	1:r:98:ASN:HB3	1.29	1.48
1:M:34:VAL:N	1:2:36:HIS:CE1	1.72	1.48
1:f:34:VAL:N	1:h:36:HIS:CE1	1.72	1.48
1:D:316:ARG:NH2	1:N:98:ASN:HB3	1.28	1.48
1:2:98:ASN:HB3	1:j:316:ARG:NH2	1.29	1.48
1:j:36:HIS:CE1	1:k:34:VAL:H	1.22	1.48
1:K:36:HIS:CE1	1:L:34:VAL:N	1.73	1.47
1:W:316:ARG:NH2	1:Y:98:ASN:HB3	1.29	1.47
1:2:34:VAL:N	1:m:36:HIS:CE1	1.73	1.47
1:j:36:HIS:CE1	1:k:34:VAL:N	1.72	1.47
1:Z:98:ASN:HB3	1:w:316:ARG:NH2	1.29	1.47
1:3:316:ARG:NH2	1:f:98:ASN:HB3	1.29	1.47
1:p:36:HIS:CE1	1:q:34:VAL:H	1.22	1.47
1:R:316:ARG:NH2	1:S:98:ASN:HB3	1.29	1.47
1:p:34:VAL:N	1:u:36:HIS:CE1	1.72	1.47
1:A:98:ASN:HB3	1:I:316:ARG:NH2	1.28	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:98:ASN:HB3	1:h:316:ARG:NH2	1.29	1.47
1:y:316:ARG:NH2	1:z:98:ASN:HB3	1.29	1.47
1:O:34:VAL:N	1:3:36:HIS:CE1	1.72	1.46
1:2:34:VAL:N	1:m:36:HIS:HE1	1.02	1.46
1:A:36:HIS:CE1	1:E:34:VAL:N	1.75	1.46
1:k:98:ASN:HB3	1:m:316:ARG:NH2	1.29	1.46
1:t:316:ARG:NH2	1:u:98:ASN:HB3	1.29	1.46
1:a:36:HIS:CE1	1:u:34:VAL:H	1.23	1.46
1:G:316:ARG:NH2	1:I:98:ASN:HB3	1.29	1.46
1:t:98:ASN:HB3	1:v:316:ARG:NH2	1.29	1.46
1:f:34:VAL:N	1:h:36:HIS:HE1	1.02	1.45
1:i:36:HIS:HE1	1:6:34:VAL:N	1.02	1.45
1:p:36:HIS:HE1	1:q:34:VAL:N	1.01	1.45
1:D:34:VAL:N	1:E:36:HIS:HE1	1.01	1.45
1:T:36:HIS:HE1	1:U:34:VAL:N	1.02	1.45
1:n:98:ASN:HB3	1:p:316:ARG:NH2	1.29	1.45
1:4:36:HIS:CE1	1:b:34:VAL:N	1.81	1.45
1:u:316:ARG:NH2	1:v:98:ASN:HB3	1.29	1.45
1:4:36:HIS:CE1	1:b:34:VAL:H	1.30	1.44
1:y:34:VAL:N	1:7:36:HIS:HE1	1.03	1.44
1:E:316:ARG:NH2	1:Q:98:ASN:HB3	1.29	1.44
1:h:34:VAL:N	1:l:36:HIS:HE1	1.02	1.44
1:A:316:ARG:NH2	1:G:98:ASN:HB3	1.30	1.44
1:K:36:HIS:HE1	1:L:34:VAL:N	1.03	1.44
1:b:36:HIS:HE1	1:c:34:VAL:N	0.97	1.44
1:B:98:ASN:HB3	1:L:316:ARG:NH2	1.28	1.44
1:R:34:VAL:N	1:V:36:HIS:HE1	1.03	1.44
1:g:36:HIS:HE1	1:m:34:VAL:N	1.02	1.44
1:V:98:ASN:HB3	1:X:316:ARG:NH2	1.29	1.44
1:4:36:HIS:HE1	1:b:34:VAL:N	1.10	1.43
1:X:36:HIS:HE1	1:Y:34:VAL:N	1.03	1.43
1:0:316:ARG:NH2	1:7:98:ASN:HB3	1.28	1.43
1:t:34:VAL:N	1:x:36:HIS:HE1	1.02	1.43
1:C:98:ASN:HB3	1:M:316:ARG:NH2	1.29	1.43
1:d:316:ARG:NH2	1:e:98:ASN:HB3	1.29	1.43
1:H:36:HIS:HE1	1:I:34:VAL:N	1.02	1.42
1:Z:34:VAL:N	1:0:36:HIS:HE1	1.03	1.42
1:B:34:VAL:N	1:C:36:HIS:HE1	1.01	1.42
1:F:34:VAL:N	1:R:36:HIS:HE1	1.01	1.42
1:1:36:HIS:HE1	1:i:34:VAL:N	1.02	1.42
1:o:34:VAL:N	1:y:36:HIS:HE1	1.01	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:98:ASN:HB3	1:Q:316:ARG:NH2	1.29	1.42
1:H:98:ASN:HB3	1:Y:316:ARG:NH2	1.29	1.42
1:Z:316:ARG:NH2	1:x:98:ASN:HB3	1.29	1.42
1:d:36:HIS:HE1	1:r:34:VAL:N	1.01	1.42
1:n:316:ARG:NH2	1:o:98:ASN:HB3	1.29	1.42
1:I:36:HIS:HE1	1:J:34:VAL:N	1.02	1.41
1:K:316:ARG:NH2	1:0:98:ASN:HB3	1.29	1.41
1:X:98:ASN:HB3	1:4:316:ARG:NH2	1.29	1.41
1:w:98:ASN:HB3	1:x:316:ARG:NH2	1.29	1.41
1:T:34:VAL:N	1:c:36:HIS:HE1	1.02	1.41
1:H:316:ARG:NH2	1:W:98:ASN:HB3	1.29	1.41
1:M:36:HIS:HE1	1:N:34:VAL:N	1.01	1.41
1:V:316:ARG:NH2	1:4:98:ASN:HB3	1.29	1.41
1:q:98:ASN:HB3	1:s:316:ARG:NH2	1.29	1.41
1:D:98:ASN:HB3	1:P:316:ARG:NH2	1.29	1.41
1:J:316:ARG:NH2	1:L:98:ASN:HB3	1.29	1.41
1:S:316:ARG:NH2	1:U:98:ASN:HB3	1.29	1.41
1:a:34:VAL:N	1:e:36:HIS:HE1	1.01	1.41
1:z:316:ARG:NH2	1:6:98:ASN:HB3	1.29	1.41
1:K:98:ASN:HB3	1:7:316:ARG:NH2	1.29	1.40
1:N:316:ARG:NH2	1:P:98:ASN:HB3	1.28	1.40
1:V:34:VAL:N	1:W:36:HIS:HE1	1.02	1.40
1:5:34:VAL:N	1:t:36:HIS:HE1	1.02	1.40
1:k:316:ARG:NH2	1:l:98:ASN:HB3	1.29	1.40
1:w:36:HIS:HE1	1:7:34:VAL:N	1.01	1.40
1:R:98:ASN:HB3	1:U:316:ARG:NH2	1.29	1.40
1:l:316:ARG:NH2	1:m:98:ASN:HB3	1.29	1.40
1:o:316:ARG:NH2	1:p:98:ASN:HB3	1.29	1.40
1:r:316:ARG:NH2	1:s:98:ASN:HB3	1.28	1.40
1:y:98:ASN:HB3	1:6:316:ARG:NH2	1.29	1.40
1:O:316:ARG:NH2	1:g:98:ASN:HB3	1.29	1.40
1:g:316:ARG:NH2	1:h:98:ASN:HB3	1.29	1.40
1:n:36:HIS:HE1	1:z:34:VAL:N	1.01	1.40
1:E:98:ASN:HB3	1:F:316:ARG:NH2	1.29	1.39
1:Q:36:HIS:HE1	1:S:34:VAL:N	1.01	1.39
1:A:257:ARG:HD2	1:B:37:SER:CA	1.51	1.39
1:5:98:ASN:HB3	1:a:316:ARG:NH2	1.28	1.39
1:2:316:ARG:NH2	1:i:98:ASN:HB3	1.29	1.39
1:5:316:ARG:NH2	1:b:98:ASN:HB3	1.35	1.39
1:F:37:SER:CA	1:G:257:ARG:HD2	1.53	1.38
1:K:257:ARG:HD2	1:6:37:SER:CA	1.53	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:37:SER:CA	1:N:257:ARG:HD2	1.53	1.38
1:d:37:SER:CA	1:r:257:ARG:HD2	1.53	1.38
1:i:37:SER:CA	1:6:257:ARG:HD2	1.54	1.38
1:o:37:SER:CA	1:v:257:ARG:HD2	1.54	1.38
1:B:257:ARG:HD2	1:C:37:SER:CA	1.54	1.38
1:T:37:SER:CA	1:U:257:ARG:HD2	1.54	1.38
1:T:98:ASN:HB3	1:f:316:ARG:NH2	1.29	1.38
1:V:257:ARG:HD2	1:W:37:SER:CA	1.53	1.38
1:Y:37:SER:CA	1:x:257:ARG:HD2	1.54	1.38
1:w:37:SER:CA	1:7:257:ARG:HD2	1.53	1.38
1:B:316:ARG:NH2	1:J:98:ASN:HB3	1.29	1.38
1:H:257:ARG:HD2	1:Z:37:SER:CA	1.54	1.38
1:T:316:ARG:NH2	1:3:98:ASN:HB3	1.29	1.38
1:U:37:SER:CA	1:4:257:ARG:HD2	1.53	1.38
1:a:257:ARG:HD2	1:e:37:SER:CA	1.54	1.38
1:b:37:SER:CA	1:c:257:ARG:HD2	1.53	1.38
1:a:98:ASN:HB3	1:b:316:ARG:NH2	1.37	1.38
1:a:37:SER:CA	1:u:257:ARG:HD2	1.53	1.38
1:i:316:ARG:NH2	1:j:98:ASN:HB3	1.29	1.38
1:p:37:SER:CA	1:q:257:ARG:HD2	1.53	1.37
1:j:37:SER:CA	1:k:257:ARG:HD2	1.54	1.37
1:p:34:VAL:N	1:u:36:HIS:HE1	1.02	1.37
1:D:257:ARG:HD2	1:E:37:SER:CA	1.53	1.37
1:I:37:SER:CA	1:J:257:ARG:HD2	1.54	1.37
1:M:98:ASN:HB3	1:1:316:ARG:NH2	1.29	1.37
1:O:257:ARG:HD2	1:3:37:SER:CA	1.54	1.37
1:Q:37:SER:CA	1:S:257:ARG:HD2	1.53	1.37
1:d:257:ARG:HD2	1:f:37:SER:CA	1.54	1.37
1:n:37:SER:CA	1:z:257:ARG:HD2	1.54	1.37
1:y:257:ARG:HD2	1:7:37:SER:CA	1.54	1.37
1:L:37:SER:CA	1:1:257:ARG:HD2	1.54	1.36
1:M:257:ARG:HD2	1:2:37:SER:CA	1.54	1.36
1:O:37:SER:CA	1:P:257:ARG:HD2	1.53	1.36
1:T:257:ARG:HD2	1:c:37:SER:CA	1.53	1.36
1:c:316:ARG:NH2	1:d:98:ASN:HB3	1.29	1.36
1:G:37:SER:CA	1:W:257:ARG:HD2	1.54	1.36
1:O:34:VAL:N	1:3:36:HIS:HE1	1.02	1.36
1:R:257:ARG:HD2	1:V:37:SER:CA	1.54	1.36
1:Z:257:ARG:HD2	1:0:37:SER:CA	1.54	1.36
1:5:257:ARG:HD2	1:t:37:SER:CA	1.55	1.36
1:h:257:ARG:HD2	1:l:37:SER:CA	1.53	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:36:HIS:HE1	1:k:34:VAL:N	1.02	1.36
1:X:37:SER:CA	1:Y:257:ARG:HD2	1.54	1.36
1:Y:36:HIS:HE1	1:x:34:VAL:N	1.01	1.36
1:1:37:SER:CA	1:i:257:ARG:HD2	1.53	1.36
1:k:37:SER:CA	1:s:257:ARG:HD2	1.53	1.36
1:A:36:HIS:HE1	1:E:34:VAL:N	1.05	1.36
1:C:34:VAL:N	1:D:36:HIS:HE1	1.03	1.36
1:H:34:VAL:N	1:Z:36:HIS:HE1	1.01	1.36
1:J:37:SER:CA	1:0:257:ARG:HD2	1.53	1.36
1:d:34:VAL:N	1:f:36:HIS:HE1	1.02	1.36
1:F:257:ARG:HD2	1:R:37:SER:CA	1.53	1.36
1:N:37:SER:CA	1:g:257:ARG:HD2	1.54	1.36
1:g:37:SER:CA	1:m:257:ARG:HD2	1.54	1.36
1:l:257:ARG:HD2	1:r:37:SER:CA	1.54	1.36
1:v:37:SER:CA	1:w:257:ARG:HD2	1.54	1.36
1:S:36:HIS:HE1	1:3:34:VAL:N	1.02	1.35
1:X:257:ARG:HD2	1:5:37:SER:CA	1.52	1.35
1:j:34:VAL:N	1:z:36:HIS:HE1	1.02	1.35
1:o:257:ARG:HD2	1:y:37:SER:CA	1.54	1.35
1:M:34:VAL:N	1:2:36:HIS:HE1	1.02	1.35
1:2:257:ARG:HD2	1:m:37:SER:CA	1.53	1.35
1:e:257:ARG:HD2	1:q:37:SER:CA	1.54	1.35
1:t:257:ARG:HD2	1:x:37:SER:CA	1.53	1.35
1:C:257:ARG:HD2	1:D:37:SER:CA	1.54	1.35
1:e:34:VAL:N	1:q:36:HIS:HE1	1.03	1.35
1:H:37:SER:CA	1:I:257:ARG:HD2	1.54	1.35
1:f:257:ARG:HD2	1:h:37:SER:CA	1.54	1.35
1:n:257:ARG:HD2	1:s:37:SER:CA	1.54	1.35
1:U:36:HIS:HE1	1:4:34:VAL:N	1.01	1.34
1:P:37:SER:CA	1:Q:257:ARG:HD2	1.54	1.34
1:K:34:VAL:N	1:6:36:HIS:HE1	1.01	1.34
1:K:37:SER:CA	1:L:257:ARG:HD2	1.54	1.34
1:p:257:ARG:HD2	1:u:37:SER:CA	1.54	1.34
1:S:37:SER:CA	1:3:257:ARG:HD2	1.54	1.33
1:j:257:ARG:HD2	1:z:37:SER:CA	1.54	1.33
1:J:36:HIS:HE1	1:0:34:VAL:N	1.01	1.33
1:4:37:SER:CA	1:b:257:ARG:HD2	1.56	1.32
1:U:246:PRO:O	1:U:249:THR:HG22	1.30	1.32
1:G:36:HIS:HE1	1:W:34:VAL:N	1.02	1.31
1:v:36:HIS:HE1	1:w:34:VAL:N	1.02	1.31
1:6:246:PRO:O	1:6:249:THR:HG22	1.30	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:246:PRO:O	1:L:249:THR:HG22	1.30	1.31
1:b:246:PRO:O	1:b:249:THR:HG22	1.30	1.31
1:F:36:HIS:HE1	1:G:34:VAL:N	1.02	1.31
1:O:36:HIS:NE2	1:P:34:VAL:HG23	1.46	1.31
1:A:37:SER:CA	1:E:257:ARG:HD2	1.57	1.30
1:J:246:PRO:O	1:J:249:THR:HG22	1.30	1.30
1:o:36:HIS:HE1	1:v:34:VAL:N	1.02	1.30
1:5:246:PRO:O	1:5:249:THR:HG22	1.30	1.30
1:k:36:HIS:NE2	1:s:34:VAL:HG23	1.47	1.30
1:T:36:HIS:NE2	1:U:34:VAL:HG23	1.47	1.30
1:T:246:PRO:O	1:T:249:THR:HG22	1.30	1.30
1:i:36:HIS:NE2	1:6:34:VAL:HG23	1.47	1.30
1:F:36:HIS:NE2	1:G:34:VAL:HG23	1.47	1.30
1:H:34:VAL:HG23	1:Z:36:HIS:NE2	1.47	1.30
1:I:246:PRO:O	1:I:249:THR:HG22	1.30	1.30
1:Y:36:HIS:NE2	1:x:34:VAL:HG23	1.47	1.30
1:i:246:PRO:O	1:i:249:THR:HG22	1.30	1.30
1:Q:36:HIS:NE2	1:S:34:VAL:HG23	1.47	1.29
1:c:246:PRO:O	1:c:249:THR:HG22	1.30	1.29
1:n:36:HIS:NE2	1:z:34:VAL:HG23	1.47	1.29
1:o:36:HIS:NE2	1:v:34:VAL:HG23	1.47	1.29
1:q:246:PRO:O	1:q:249:THR:HG22	1.30	1.29
1:t:246:PRO:O	1:t:249:THR:HG22	1.30	1.29
1:D:246:PRO:O	1:D:249:THR:HG22	1.30	1.29
1:W:246:PRO:O	1:W:249:THR:HG22	1.30	1.29
1:1:246:PRO:O	1:1:249:THR:HG22	1.30	1.29
1:o:34:VAL:HG23	1:y:36:HIS:NE2	1.47	1.29
1:w:246:PRO:O	1:w:249:THR:HG22	1.30	1.29
1:3:246:PRO:O	1:3:249:THR:HG22	1.30	1.29
1:j:36:HIS:NE2	1:k:34:VAL:HG23	1.47	1.29
1:p:36:HIS:NE2	1:q:34:VAL:HG23	1.47	1.29
1:D:34:VAL:HG23	1:E:36:HIS:NE2	1.47	1.29
1:F:34:VAL:HG23	1:R:36:HIS:NE2	1.47	1.29
1:P:36:HIS:NE2	1:Q:34:VAL:HG23	1.48	1.29
1:X:246:PRO:O	1:X:249:THR:HG22	1.30	1.29
1:v:36:HIS:NE2	1:w:34:VAL:HG23	1.47	1.29
1:G:36:HIS:NE2	1:W:34:VAL:HG23	1.47	1.28
1:Z:246:PRO:O	1:Z:249:THR:HG22	1.30	1.28
1:a:34:VAL:HG23	1:e:36:HIS:NE2	1.46	1.28
1:n:34:VAL:HG23	1:s:36:HIS:NE2	1.48	1.28
1:I:36:HIS:NE2	1:J:34:VAL:HG23	1.47	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:34:VAL:HG23	1:3:36:HIS:NE2	1.48	1.28
1:V:34:VAL:HG23	1:W:36:HIS:NE2	1.47	1.28
1:X:34:VAL:HG23	1:5:36:HIS:NE2	1.45	1.28
1:j:246:PRO:O	1:j:249:THR:HG22	1.30	1.28
1:w:36:HIS:NE2	1:7:34:VAL:HG23	1.47	1.28
1:y:246:PRO:O	1:y:249:THR:HG22	1.30	1.28
1:J:246:PRO:O	1:J:249:THR:CG2	1.82	1.28
1:P:246:PRO:O	1:P:249:THR:CG2	1.82	1.28
1:Y:246:PRO:O	1:Y:249:THR:HG22	1.30	1.28
1:0:246:PRO:O	1:0:249:THR:HG22	1.30	1.28
1:5:34:VAL:HG23	1:t:36:HIS:NE2	1.48	1.28
1:5:246:PRO:O	1:5:249:THR:CG2	1.82	1.28
1:r:246:PRO:O	1:r:249:THR:CG2	1.82	1.28
1:B:34:VAL:HG23	1:C:36:HIS:NE2	1.47	1.28
1:M:36:HIS:NE2	1:N:34:VAL:HG23	1.47	1.28
1:N:36:HIS:NE2	1:g:34:VAL:HG23	1.47	1.28
1:N:246:PRO:O	1:N:249:THR:CG2	1.82	1.28
1:R:246:PRO:O	1:R:249:THR:HG22	1.30	1.28
1:U:36:HIS:NE2	1:4:34:VAL:HG23	1.47	1.28
1:s:246:PRO:O	1:s:249:THR:CG2	1.82	1.28
1:C:246:PRO:O	1:C:249:THR:CG2	1.82	1.28
1:d:36:HIS:NE2	1:r:34:VAL:HG23	1.47	1.28
1:e:246:PRO:O	1:e:249:THR:CG2	1.82	1.28
1:D:246:PRO:O	1:D:249:THR:CG2	1.82	1.27
1:H:246:PRO:O	1:H:249:THR:CG2	1.82	1.27
1:K:34:VAL:HG23	1:6:36:HIS:NE2	1.47	1.27
1:R:246:PRO:O	1:R:249:THR:CG2	1.82	1.27
1:a:246:PRO:O	1:a:249:THR:HG22	1.30	1.27
1:h:246:PRO:O	1:h:249:THR:CG2	1.82	1.27
1:l:34:VAL:HG23	1:r:36:HIS:NE2	1.48	1.27
1:q:246:PRO:O	1:q:249:THR:CG2	1.82	1.27
1:x:246:PRO:O	1:x:249:THR:CG2	1.82	1.27
1:y:246:PRO:O	1:y:249:THR:CG2	1.82	1.27
1:U:246:PRO:O	1:U:249:THR:CG2	1.82	1.27
1:c:246:PRO:O	1:c:249:THR:CG2	1.82	1.27
1:g:246:PRO:O	1:g:249:THR:CG2	1.82	1.27
1:B:246:PRO:O	1:B:249:THR:HG22	1.30	1.27
1:S:246:PRO:O	1:S:249:THR:CG2	1.82	1.27
1:1:246:PRO:O	1:1:249:THR:CG2	1.82	1.27
1:2:34:VAL:HG23	1:m:36:HIS:NE2	1.47	1.27
1:l:246:PRO:O	1:l:249:THR:CG2	1.82	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:246:PRO:O	1:m:249:THR:CG2	1.82	1.27
1:6:246:PRO:O	1:6:249:THR:CG2	1.82	1.27
1:z:246:PRO:O	1:z:249:THR:CG2	1.82	1.27
1:J:36:HIS:NE2	1:0:34:VAL:HG23	1.47	1.27
1:K:246:PRO:O	1:K:249:THR:CG2	1.82	1.27
1:Q:35:GLY:O	1:S:257:ARG:HD3	1.09	1.27
1:T:246:PRO:O	1:T:249:THR:CG2	1.82	1.27
1:X:36:HIS:NE2	1:Y:34:VAL:HG23	1.48	1.27
1:n:35:GLY:O	1:z:257:ARG:HD3	1.09	1.27
1:y:34:VAL:HG23	1:7:36:HIS:NE2	1.48	1.27
1:L:36:HIS:NE2	1:1:34:VAL:HG23	1.47	1.26
1:P:246:PRO:O	1:P:249:THR:HG22	1.30	1.26
1:R:34:VAL:HG23	1:V:36:HIS:NE2	1.48	1.26
1:V:246:PRO:O	1:V:249:THR:CG2	1.82	1.26
1:Z:34:VAL:HG23	1:0:36:HIS:NE2	1.48	1.26
1:4:246:PRO:O	1:4:249:THR:CG2	1.82	1.26
1:i:246:PRO:O	1:i:249:THR:CG2	1.82	1.26
1:n:246:PRO:O	1:n:249:THR:CG2	1.82	1.26
1:r:246:PRO:O	1:r:249:THR:HG22	1.30	1.26
1:A:246:PRO:O	1:A:249:THR:CG2	1.82	1.26
1:F:246:PRO:O	1:F:249:THR:CG2	1.82	1.26
1:H:36:HIS:NE2	1:I:34:VAL:HG23	1.47	1.26
1:Q:246:PRO:O	1:Q:249:THR:CG2	1.82	1.26
1:S:35:GLY:O	1:3:257:ARG:HD3	1.09	1.26
1:T:34:VAL:HG23	1:c:36:HIS:NE2	1.47	1.26
1:V:257:ARG:HD3	1:W:35:GLY:O	1.09	1.26
1:Y:246:PRO:O	1:Y:249:THR:CG2	1.82	1.26
1:Z:246:PRO:O	1:Z:249:THR:CG2	1.82	1.26
1:0:246:PRO:O	1:0:249:THR:CG2	1.82	1.26
1:1:36:HIS:NE2	1:i:34:VAL:HG23	1.47	1.26
1:f:34:VAL:HG23	1:h:36:HIS:NE2	1.47	1.26
1:j:35:GLY:O	1:k:257:ARG:HD3	1.08	1.26
1:7:246:PRO:O	1:7:249:THR:CG2	1.82	1.26
1:A:34:VAL:HG23	1:B:36:HIS:NE2	1.46	1.26
1:B:246:PRO:O	1:B:249:THR:CG2	1.82	1.26
1:C:34:VAL:HG23	1:D:36:HIS:NE2	1.48	1.26
1:L:35:GLY:O	1:1:257:ARG:HD3	1.09	1.26
1:L:246:PRO:O	1:L:249:THR:CG2	1.82	1.26
1:O:246:PRO:O	1:O:249:THR:HG22	1.30	1.26
1:X:246:PRO:O	1:X:249:THR:CG2	1.82	1.26
1:a:246:PRO:O	1:a:249:THR:CG2	1.82	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:246:PRO:O	1:b:249:THR:CG2	1.82	1.26
1:e:34:VAL:HG23	1:q:36:HIS:NE2	1.48	1.26
1:j:34:VAL:HG23	1:z:36:HIS:NE2	1.47	1.26
1:j:257:ARG:HD3	1:z:35:GLY:O	1.09	1.26
1:l:246:PRO:O	1:l:249:THR:HG22	1.30	1.26
1:o:246:PRO:O	1:o:249:THR:CG2	1.82	1.26
1:p:34:VAL:HG23	1:u:36:HIS:NE2	1.47	1.26
1:u:246:PRO:O	1:u:249:THR:CG2	1.82	1.26
1:w:35:GLY:O	1:7:257:ARG:HD3	1.09	1.26
1:K:36:HIS:NE2	1:L:34:VAL:HG23	1.48	1.26
1:M:33:GLY:O	1:M:36:HIS:CD2	1.89	1.26
1:M:246:PRO:O	1:M:249:THR:CG2	1.82	1.26
1:O:246:PRO:O	1:O:249:THR:CG2	1.82	1.26
1:R:33:GLY:O	1:R:36:HIS:CD2	1.89	1.26
1:S:36:HIS:NE2	1:3:34:VAL:HG23	1.47	1.26
1:d:33:GLY:O	1:d:36:HIS:CD2	1.89	1.26
1:d:34:VAL:HG23	1:f:36:HIS:NE2	1.47	1.26
1:k:246:PRO:O	1:k:249:THR:CG2	1.82	1.26
1:o:257:ARG:HD3	1:y:35:GLY:O	1.09	1.26
1:s:246:PRO:O	1:s:249:THR:HG22	1.30	1.26
1:t:34:VAL:HG23	1:x:36:HIS:NE2	1.47	1.26
1:y:33:GLY:O	1:y:36:HIS:CD2	1.89	1.26
1:E:246:PRO:O	1:E:249:THR:HG22	1.30	1.26
1:F:257:ARG:HD3	1:R:35:GLY:O	1.09	1.26
1:N:246:PRO:O	1:N:249:THR:HG22	1.30	1.26
1:O:257:ARG:HD3	1:3:35:GLY:O	1.08	1.26
1:3:246:PRO:O	1:3:249:THR:CG2	1.82	1.26
1:d:246:PRO:O	1:d:249:THR:CG2	1.82	1.26
1:h:33:GLY:O	1:h:36:HIS:CD2	1.89	1.26
1:j:246:PRO:O	1:j:249:THR:CG2	1.82	1.26
1:k:246:PRO:O	1:k:249:THR:HG22	1.30	1.26
1:p:246:PRO:O	1:p:249:THR:CG2	1.82	1.26
1:S:33:GLY:O	1:S:36:HIS:CD2	1.89	1.25
1:2:246:PRO:O	1:2:249:THR:CG2	1.82	1.25
1:c:33:GLY:O	1:c:36:HIS:CD2	1.89	1.25
1:f:246:PRO:O	1:f:249:THR:CG2	1.82	1.25
1:g:246:PRO:O	1:g:249:THR:HG22	1.30	1.25
1:m:33:GLY:O	1:m:36:HIS:CD2	1.89	1.25
1:z:33:GLY:O	1:z:36:HIS:CD2	1.89	1.25
1:E:246:PRO:O	1:E:249:THR:CG2	1.82	1.25
1:M:34:VAL:HG23	1:2:36:HIS:NE2	1.47	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:33:GLY:O	1:1:36:HIS:CD2	1.89	1.25
1:a:36:HIS:NE2	1:u:34:VAL:HG23	1.46	1.25
1:v:246:PRO:O	1:v:249:THR:CG2	1.82	1.25
1:7:246:PRO:O	1:7:249:THR:HG22	1.30	1.25
1:A:33:GLY:O	1:A:36:HIS:CD2	1.89	1.25
1:F:246:PRO:O	1:F:249:THR:HG22	1.30	1.25
1:G:246:PRO:O	1:G:249:THR:CG2	1.82	1.25
1:K:33:GLY:O	1:K:36:HIS:CD2	1.89	1.25
1:M:191:PHE:HE1	1:M:470:HIS:CE1	1.55	1.25
1:V:191:PHE:HE1	1:V:470:HIS:CE1	1.55	1.25
1:2:33:GLY:O	1:2:36:HIS:CD2	1.89	1.25
1:d:191:PHE:HE1	1:d:470:HIS:CE1	1.55	1.25
1:g:33:GLY:O	1:g:36:HIS:CD2	1.89	1.25
1:q:33:GLY:O	1:q:36:HIS:CD2	1.89	1.25
1:r:33:GLY:O	1:r:36:HIS:CD2	1.89	1.25
1:u:33:GLY:O	1:u:36:HIS:CD2	1.89	1.25
1:w:191:PHE:HE1	1:w:470:HIS:CE1	1.55	1.25
1:x:246:PRO:O	1:x:249:THR:HG22	1.30	1.25
1:7:191:PHE:HE1	1:7:470:HIS:CE1	1.55	1.25
1:D:33:GLY:O	1:D:36:HIS:CD2	1.89	1.25
1:D:191:PHE:HE1	1:D:470:HIS:CE1	1.55	1.25
1:N:33:GLY:O	1:N:36:HIS:CD2	1.89	1.25
1:W:33:GLY:O	1:W:36:HIS:CD2	1.89	1.25
1:W:191:PHE:HE1	1:W:470:HIS:CE1	1.55	1.25
1:W:246:PRO:O	1:W:249:THR:CG2	1.82	1.25
1:Y:33:GLY:O	1:Y:36:HIS:CD2	1.89	1.25
1:2:191:PHE:HE1	1:2:470:HIS:CE1	1.55	1.25
1:4:33:GLY:O	1:4:36:HIS:CD2	1.89	1.25
1:b:36:HIS:NE2	1:c:34:VAL:HG23	1.50	1.25
1:f:33:GLY:O	1:f:36:HIS:CD2	1.89	1.25
1:l:33:GLY:O	1:l:36:HIS:CD2	1.89	1.25
1:q:191:PHE:HE1	1:q:470:HIS:CE1	1.55	1.25
1:r:191:PHE:HE1	1:r:470:HIS:CE1	1.55	1.25
1:E:33:GLY:O	1:E:36:HIS:CD2	1.89	1.25
1:I:191:PHE:HE1	1:I:470:HIS:CE1	1.55	1.25
1:N:191:PHE:HE1	1:N:470:HIS:CE1	1.55	1.25
1:V:33:GLY:O	1:V:36:HIS:CD2	1.89	1.25
1:V:246:PRO:O	1:V:249:THR:HG22	1.30	1.25
1:X:191:PHE:HE1	1:X:470:HIS:CE1	1.55	1.25
1:Z:33:GLY:O	1:Z:36:HIS:CD2	1.89	1.25
1:0:191:PHE:HE1	1:0:470:HIS:CE1	1.55	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:191:PHE:HE1	1:f:470:HIS:CE1	1.55	1.25
1:v:33:GLY:O	1:v:36:HIS:CD2	1.89	1.25
1:w:33:GLY:O	1:w:36:HIS:CD2	1.89	1.25
1:w:246:PRO:O	1:w:249:THR:CG2	1.82	1.25
1:z:191:PHE:HE1	1:z:470:HIS:CE1	1.55	1.25
1:7:33:GLY:O	1:7:36:HIS:CD2	1.89	1.25
1:G:33:GLY:O	1:G:36:HIS:CD2	1.89	1.24
1:H:246:PRO:O	1:H:249:THR:HG22	1.30	1.24
1:K:257:ARG:HD3	1:6:35:GLY:O	1.09	1.24
1:L:33:GLY:O	1:L:36:HIS:CD2	1.89	1.24
1:O:33:GLY:O	1:O:36:HIS:CD2	1.89	1.24
1:S:191:PHE:HE1	1:S:470:HIS:CE1	1.55	1.24
1:T:33:GLY:O	1:T:36:HIS:CD2	1.89	1.24
1:Y:191:PHE:HE1	1:Y:470:HIS:CE1	1.55	1.24
1:2:246:PRO:O	1:2:249:THR:HG22	1.30	1.24
1:b:33:GLY:O	1:b:36:HIS:CD2	1.89	1.24
1:c:191:PHE:HE1	1:c:470:HIS:CE1	1.55	1.24
1:f:246:PRO:O	1:f:249:THR:HG22	1.30	1.24
1:o:246:PRO:O	1:o:249:THR:HG22	1.30	1.24
1:p:33:GLY:O	1:p:36:HIS:CD2	1.89	1.24
1:p:257:ARG:HD3	1:u:35:GLY:O	1.08	1.24
1:t:191:PHE:HE1	1:t:470:HIS:CE1	1.55	1.24
1:N:35:GLY:O	1:g:257:ARG:HD3	1.08	1.24
1:U:35:GLY:O	1:4:257:ARG:HD3	1.09	1.24
1:X:34:VAL:CG2	1:5:36:HIS:NE2	2.00	1.24
1:Z:191:PHE:HE1	1:Z:470:HIS:CE1	1.55	1.24
1:1:191:PHE:HE1	1:1:470:HIS:CE1	1.55	1.24
1:2:257:ARG:HD3	1:m:35:GLY:O	1.09	1.24
1:e:246:PRO:O	1:e:249:THR:HG22	1.30	1.24
1:h:34:VAL:HG23	1:l:36:HIS:NE2	1.47	1.24
1:i:33:GLY:O	1:i:36:HIS:CD2	1.89	1.24
1:j:33:GLY:O	1:j:36:HIS:CD2	1.89	1.24
1:k:33:GLY:O	1:k:36:HIS:CD2	1.89	1.24
1:y:191:PHE:HE1	1:y:470:HIS:CE1	1.55	1.24
1:I:246:PRO:O	1:I:249:THR:CG2	1.82	1.24
1:J:33:GLY:O	1:J:36:HIS:CD2	1.89	1.24
1:P:33:GLY:O	1:P:36:HIS:CD2	1.89	1.24
1:R:191:PHE:HE1	1:R:470:HIS:CE1	1.55	1.24
1:3:33:GLY:O	1:3:36:HIS:CD2	1.89	1.24
1:5:33:GLY:O	1:5:36:HIS:CD2	1.89	1.24
1:l:191:PHE:HE1	1:l:470:HIS:CE1	1.55	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:257:ARG:HD3	1:s:35:GLY:O	1.08	1.24
1:s:33:GLY:O	1:s:36:HIS:CD2	1.89	1.24
1:F:191:PHE:HE1	1:F:470:HIS:CE1	1.55	1.24
1:K:35:GLY:O	1:L:257:ARG:HD3	1.08	1.24
1:K:191:PHE:HE1	1:K:470:HIS:CE1	1.55	1.24
1:P:35:GLY:O	1:Q:257:ARG:HD3	1.08	1.24
1:S:246:PRO:O	1:S:249:THR:HG22	1.30	1.24
1:4:191:PHE:HE1	1:4:470:HIS:CE1	1.55	1.24
1:a:35:GLY:O	1:u:257:ARG:HD3	1.10	1.24
1:e:33:GLY:O	1:e:36:HIS:CD2	1.89	1.24
1:g:36:HIS:NE2	1:m:34:VAL:HG23	1.47	1.24
1:g:191:PHE:HE1	1:g:470:HIS:CE1	1.55	1.24
1:j:191:PHE:HE1	1:j:470:HIS:CE1	1.55	1.24
1:l:257:ARG:HD3	1:r:35:GLY:O	1.08	1.24
1:t:246:PRO:O	1:t:249:THR:CG2	1.82	1.24
1:t:257:ARG:HD3	1:x:35:GLY:O	1.09	1.24
1:u:246:PRO:O	1:u:249:THR:HG22	1.30	1.24
1:v:35:GLY:O	1:w:257:ARG:HD3	1.08	1.24
1:E:191:PHE:HE1	1:E:470:HIS:CE1	1.55	1.24
1:F:33:GLY:O	1:F:36:HIS:CD2	1.89	1.24
1:G:35:GLY:O	1:W:257:ARG:HD3	1.09	1.24
1:J:191:PHE:HE1	1:J:470:HIS:CE1	1.55	1.24
1:O:35:GLY:O	1:P:257:ARG:HD3	1.09	1.24
1:U:33:GLY:O	1:U:36:HIS:CD2	1.89	1.24
1:3:191:PHE:HE1	1:3:470:HIS:CE1	1.55	1.24
1:5:191:PHE:HE1	1:5:470:HIS:CE1	1.55	1.24
1:e:191:PHE:HE1	1:e:470:HIS:CE1	1.55	1.24
1:p:36:HIS:NE2	1:q:34:VAL:CG2	2.01	1.24
1:p:191:PHE:HE1	1:p:470:HIS:CE1	1.55	1.24
1:u:191:PHE:HE1	1:u:470:HIS:CE1	1.55	1.24
1:x:33:GLY:O	1:x:36:HIS:CD2	1.89	1.24
1:A:191:PHE:HE1	1:A:470:HIS:CE1	1.55	1.23
1:A:246:PRO:O	1:A:249:THR:HG22	1.30	1.23
1:C:33:GLY:O	1:C:36:HIS:CD2	1.89	1.23
1:C:191:PHE:HE1	1:C:470:HIS:CE1	1.55	1.23
1:D:34:VAL:CG2	1:E:36:HIS:NE2	2.02	1.23
1:H:35:GLY:O	1:I:257:ARG:HD3	1.09	1.23
1:H:257:ARG:HD3	1:Z:35:GLY:O	1.09	1.23
1:O:191:PHE:HE1	1:O:470:HIS:CE1	1.55	1.23
1:f:257:ARG:HD3	1:h:35:GLY:O	1.08	1.23
1:k:35:GLY:O	1:s:257:ARG:HD3	1.09	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:33:GLY:O	1:o:36:HIS:CD2	1.89	1.23
1:o:191:PHE:HE1	1:o:470:HIS:CE1	1.55	1.23
1:z:246:PRO:O	1:z:249:THR:HG22	1.30	1.23
1:6:33:GLY:O	1:6:36:HIS:CD2	1.89	1.23
1:B:33:GLY:O	1:B:36:HIS:CD2	1.89	1.23
1:B:34:VAL:CG2	1:C:36:HIS:NE2	2.02	1.23
1:B:191:PHE:HE1	1:B:470:HIS:CE1	1.55	1.23
1:H:33:GLY:O	1:H:36:HIS:CD2	1.89	1.23
1:M:36:HIS:NE2	1:N:34:VAL:CG2	2.01	1.23
1:T:35:GLY:O	1:U:257:ARG:HD3	1.08	1.23
1:T:257:ARG:HD3	1:c:35:GLY:O	1.09	1.23
1:a:33:GLY:O	1:a:36:HIS:CD2	1.89	1.23
1:a:34:VAL:CG2	1:e:36:HIS:NE2	2.02	1.23
1:a:191:PHE:HE1	1:a:470:HIS:CE1	1.55	1.23
1:k:191:PHE:HE1	1:k:470:HIS:CE1	1.55	1.23
1:A:34:VAL:CG2	1:B:36:HIS:NE2	2.00	1.23
1:A:36:HIS:NE2	1:E:34:VAL:HG23	1.50	1.23
1:J:36:HIS:NE2	1:0:34:VAL:CG2	2.02	1.23
1:Y:35:GLY:O	1:x:257:ARG:HD3	1.09	1.23
1:0:33:GLY:O	1:0:36:HIS:CD2	1.89	1.23
1:d:34:VAL:CG2	1:f:36:HIS:NE2	2.02	1.23
1:d:36:HIS:NE2	1:r:34:VAL:CG2	2.02	1.23
1:h:191:PHE:HE1	1:h:470:HIS:CE1	1.55	1.23
1:i:35:GLY:O	1:6:257:ARG:HD3	1.08	1.23
1:F:36:HIS:NE2	1:G:34:VAL:CG2	2.02	1.23
1:I:35:GLY:O	1:J:257:ARG:HD3	1.08	1.23
1:M:34:VAL:CG2	1:2:36:HIS:NE2	2.02	1.23
1:Q:36:HIS:NE2	1:S:34:VAL:CG2	2.02	1.23
1:X:33:GLY:O	1:X:36:HIS:CD2	1.89	1.23
1:g:35:GLY:O	1:m:257:ARG:HD3	1.09	1.23
1:h:257:ARG:HD3	1:l:35:GLY:O	1.09	1.23
1:m:191:PHE:HE1	1:m:470:HIS:CE1	1.55	1.23
1:n:33:GLY:O	1:n:36:HIS:CD2	1.89	1.23
1:n:36:HIS:NE2	1:z:34:VAL:CG2	2.02	1.23
1:o:36:HIS:NE2	1:v:34:VAL:CG2	2.02	1.23
1:t:33:GLY:O	1:t:36:HIS:CD2	1.89	1.23
1:I:33:GLY:O	1:I:36:HIS:CD2	1.89	1.23
1:Q:33:GLY:O	1:Q:36:HIS:CD2	1.89	1.23
1:R:257:ARG:HD3	1:V:35:GLY:O	1.08	1.23
1:X:35:GLY:O	1:Y:257:ARG:HD3	1.08	1.23
1:1:35:GLY:O	1:i:257:ARG:HD3	1.09	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:257:ARG:HD3	1:q:35:GLY:O	1.08	1.23
1:x:191:PHE:HE1	1:x:470:HIS:CE1	1.55	1.23
1:C:257:ARG:HD3	1:D:35:GLY:O	1.08	1.22
1:G:191:PHE:HE1	1:G:470:HIS:CE1	1.55	1.22
1:H:191:PHE:HE1	1:H:470:HIS:CE1	1.55	1.22
1:I:36:HIS:NE2	1:J:34:VAL:CG2	2.02	1.22
1:2:93:GLY:O	1:2:96:THR:HG23	1.39	1.22
1:5:257:ARG:HD3	1:t:35:GLY:O	1.07	1.22
1:a:257:ARG:HD3	1:e:35:GLY:O	1.09	1.22
1:f:93:GLY:O	1:f:96:THR:HG23	1.39	1.22
1:h:34:VAL:CG2	1:l:36:HIS:NE2	2.02	1.22
1:i:191:PHE:HE1	1:i:470:HIS:CE1	1.55	1.22
1:m:93:GLY:O	1:m:96:THR:HG23	1.39	1.22
1:r:93:GLY:O	1:r:96:THR:HG23	1.39	1.22
1:v:191:PHE:HE1	1:v:470:HIS:CE1	1.55	1.22
1:H:36:HIS:NE2	1:I:34:VAL:CG2	2.02	1.22
1:N:93:GLY:O	1:N:96:THR:HG23	1.39	1.22
1:P:191:PHE:HE1	1:P:470:HIS:CE1	1.55	1.22
1:R:34:VAL:CG2	1:V:36:HIS:NE2	2.03	1.22
1:X:257:ARG:HD3	1:5:35:GLY:O	1.10	1.22
1:Z:257:ARG:HD3	1:0:35:GLY:O	1.08	1.22
1:b:191:PHE:HE1	1:b:470:HIS:CE1	1.55	1.22
1:h:93:GLY:O	1:h:96:THR:HG23	1.39	1.22
1:n:191:PHE:HE1	1:n:470:HIS:CE1	1.55	1.22
1:t:34:VAL:CG2	1:x:36:HIS:NE2	2.02	1.22
1:y:34:VAL:CG2	1:7:36:HIS:NE2	2.03	1.22
1:y:93:GLY:O	1:y:96:THR:HG23	1.39	1.22
1:G:36:HIS:NE2	1:W:34:VAL:CG2	2.02	1.22
1:G:246:PRO:O	1:G:249:THR:HG22	1.30	1.22
1:L:191:PHE:HE1	1:L:470:HIS:CE1	1.55	1.22
1:O:36:HIS:NE2	1:P:34:VAL:CG2	2.01	1.22
1:Q:191:PHE:HE1	1:Q:470:HIS:CE1	1.55	1.22
1:T:191:PHE:HE1	1:T:470:HIS:CE1	1.55	1.22
1:V:34:VAL:CG2	1:W:36:HIS:NE2	2.02	1.22
1:b:93:GLY:O	1:b:96:THR:HG23	1.39	1.22
1:g:36:HIS:NE2	1:m:34:VAL:CG2	2.02	1.22
1:k:36:HIS:NE2	1:s:34:VAL:CG2	2.02	1.22
1:m:246:PRO:O	1:m:249:THR:HG22	1.30	1.22
1:p:34:VAL:CG2	1:u:36:HIS:NE2	2.02	1.22
1:s:191:PHE:HE1	1:s:470:HIS:CE1	1.55	1.22
1:w:36:HIS:NE2	1:7:34:VAL:CG2	2.02	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:257:ARG:HD3	1:7:35:GLY:O	1.08	1.22
1:6:191:PHE:HE1	1:6:470:HIS:CE1	1.55	1.22
1:A:35:GLY:O	1:E:257:ARG:HD3	1.06	1.22
1:G:93:GLY:O	1:G:96:THR:HG23	1.39	1.22
1:L:93:GLY:O	1:L:96:THR:HG23	1.39	1.22
1:M:35:GLY:O	1:N:257:ARG:HD3	1.09	1.22
1:M:257:ARG:HD3	1:2:35:GLY:O	1.08	1.22
1:R:93:GLY:O	1:R:96:THR:HG23	1.39	1.22
1:d:257:ARG:HD3	1:f:35:GLY:O	1.08	1.22
1:o:35:GLY:O	1:v:257:ARG:HD3	1.09	1.22
1:v:36:HIS:NE2	1:w:34:VAL:CG2	2.02	1.22
1:v:246:PRO:O	1:v:249:THR:HG22	1.30	1.22
1:A:257:ARG:HD3	1:B:35:GLY:O	1.09	1.22
1:F:35:GLY:O	1:G:257:ARG:HD3	1.09	1.22
1:J:35:GLY:O	1:0:257:ARG:HD3	1.09	1.22
1:N:36:HIS:NE2	1:g:34:VAL:CG2	2.03	1.22
1:U:191:PHE:HE1	1:U:470:HIS:CE1	1.55	1.22
1:2:34:VAL:CG2	1:m:36:HIS:NE2	2.02	1.22
1:a:36:HIS:NE2	1:u:34:VAL:CG2	2.01	1.22
1:g:93:GLY:O	1:g:96:THR:HG23	1.39	1.22
1:j:36:HIS:NE2	1:k:34:VAL:CG2	2.02	1.22
1:n:34:VAL:CG2	1:s:36:HIS:NE2	2.03	1.22
1:K:93:GLY:O	1:K:96:THR:HG23	1.39	1.21
1:P:36:HIS:NE2	1:Q:34:VAL:CG2	2.03	1.21
1:5:34:VAL:CG2	1:t:36:HIS:NE2	2.03	1.21
1:t:93:GLY:O	1:t:96:THR:HG23	1.39	1.21
1:v:93:GLY:O	1:v:96:THR:HG23	1.39	1.21
1:B:257:ARG:HD3	1:C:35:GLY:O	1.09	1.21
1:F:93:GLY:O	1:F:96:THR:HG23	1.39	1.21
1:T:34:VAL:CG2	1:c:36:HIS:NE2	2.01	1.21
1:T:36:HIS:NE2	1:U:34:VAL:CG2	2.02	1.21
1:Z:34:VAL:CG2	1:0:36:HIS:NE2	2.03	1.21
1:1:93:GLY:O	1:1:96:THR:HG23	1.39	1.21
1:c:93:GLY:O	1:c:96:THR:HG23	1.39	1.21
1:h:246:PRO:O	1:h:249:THR:HG22	1.30	1.21
1:l:34:VAL:CG2	1:r:36:HIS:NE2	2.03	1.21
1:l:93:GLY:O	1:l:96:THR:HG23	1.39	1.21
1:n:246:PRO:O	1:n:249:THR:HG22	1.30	1.21
1:o:93:GLY:O	1:o:96:THR:HG23	1.39	1.21
1:A:37:SER:OG	1:E:257:ARG:HG2	1.05	1.21
1:H:34:VAL:CG2	1:Z:36:HIS:NE2	2.02	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:93:GLY:O	1:H:96:THR:HG23	1.39	1.21
1:L:36:HIS:NE2	1:1:34:VAL:CG2	2.02	1.21
1:O:34:VAL:CG2	1:3:36:HIS:NE2	2.03	1.21
1:X:36:HIS:NE2	1:Y:34:VAL:CG2	2.03	1.21
1:X:93:GLY:O	1:X:96:THR:HG23	1.39	1.21
1:0:93:GLY:O	1:0:96:THR:HG23	1.39	1.21
1:1:36:HIS:NE2	1:i:34:VAL:CG2	2.02	1.21
1:4:93:GLY:O	1:4:96:THR:HG23	1.39	1.21
1:b:35:GLY:O	1:c:257:ARG:HD3	1.05	1.21
1:d:35:GLY:O	1:r:257:ARG:HD3	1.09	1.21
1:e:34:VAL:CG2	1:q:36:HIS:NE2	2.03	1.21
1:i:36:HIS:NE2	1:6:34:VAL:CG2	2.02	1.21
1:C:34:VAL:CG2	1:D:36:HIS:NE2	2.03	1.21
1:D:257:ARG:HD3	1:E:35:GLY:O	1.09	1.21
1:F:34:VAL:CG2	1:R:36:HIS:NE2	2.02	1.21
1:I:93:GLY:O	1:I:96:THR:HG23	1.39	1.21
1:Y:36:HIS:NE2	1:x:34:VAL:CG2	2.02	1.21
1:f:34:VAL:CG2	1:h:36:HIS:NE2	2.02	1.21
1:x:93:GLY:O	1:x:96:THR:HG23	1.39	1.21
1:K:34:VAL:CG2	1:6:36:HIS:NE2	2.01	1.21
1:Q:246:PRO:O	1:Q:249:THR:HG22	1.30	1.21
1:b:36:HIS:NE2	1:c:34:VAL:CG2	2.03	1.21
1:b:37:SER:HA	1:c:257:ARG:CD	1.71	1.21
1:j:93:GLY:O	1:j:96:THR:HG23	1.39	1.21
1:o:34:VAL:CG2	1:y:36:HIS:NE2	2.02	1.21
1:D:93:GLY:O	1:D:96:THR:HG23	1.39	1.20
1:K:36:HIS:NE2	1:L:34:VAL:CG2	2.03	1.20
1:W:93:GLY:O	1:W:96:THR:HG23	1.39	1.20
1:p:35:GLY:O	1:q:257:ARG:HD3	1.09	1.20
1:M:246:PRO:O	1:M:249:THR:HG22	1.30	1.20
1:U:36:HIS:NE2	1:4:34:VAL:CG2	2.01	1.20
1:3:93:GLY:O	1:3:96:THR:HG23	1.39	1.20
1:q:93:GLY:O	1:q:96:THR:HG23	1.39	1.20
1:w:93:GLY:O	1:w:96:THR:HG23	1.39	1.20
1:A:93:GLY:O	1:A:96:THR:HG23	1.39	1.20
1:S:36:HIS:NE2	1:3:34:VAL:CG2	2.02	1.20
1:V:93:GLY:O	1:V:96:THR:HG23	1.39	1.20
1:X:257:ARG:CD	1:5:37:SER:HA	1.72	1.20
1:4:246:PRO:O	1:4:249:THR:HG22	1.30	1.20
1:p:246:PRO:O	1:p:249:THR:HG22	1.30	1.20
1:u:93:GLY:O	1:u:96:THR:HG23	1.39	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:ARG:CD	1:B:37:SER:HA	1.72	1.20
1:C:246:PRO:O	1:C:249:THR:HG22	1.30	1.20
1:T:93:GLY:O	1:T:96:THR:HG23	1.39	1.20
1:i:93:GLY:O	1:i:96:THR:HG23	1.39	1.20
1:p:93:GLY:O	1:p:96:THR:HG23	1.39	1.20
1:7:93:GLY:O	1:7:96:THR:HG23	1.39	1.20
1:Z:93:GLY:O	1:Z:96:THR:HG23	1.39	1.20
1:d:246:PRO:O	1:d:249:THR:HG22	1.30	1.20
1:j:34:VAL:CG2	1:z:36:HIS:NE2	2.02	1.20
1:E:93:GLY:O	1:E:96:THR:HG23	1.39	1.19
1:K:246:PRO:O	1:K:249:THR:HG22	1.30	1.19
1:l:257:ARG:HG2	1:r:37:SER:OG	1.02	1.19
1:o:257:ARG:HG2	1:y:37:SER:OG	1.01	1.19
1:F:257:ARG:HG2	1:R:37:SER:OG	1.01	1.19
1:H:257:ARG:CD	1:Z:37:SER:HA	1.73	1.19
1:L:37:SER:HA	1:1:257:ARG:CD	1.73	1.19
1:M:37:SER:HA	1:N:257:ARG:CD	1.73	1.19
1:N:37:SER:OG	1:g:257:ARG:HG2	1.02	1.19
1:O:257:ARG:HG2	1:3:37:SER:OG	1.02	1.19
1:R:257:ARG:HG2	1:V:37:SER:OG	1.02	1.19
1:T:257:ARG:CD	1:c:37:SER:HA	1.73	1.19
1:Y:37:SER:HA	1:x:257:ARG:CD	1.73	1.19
1:Y:93:GLY:O	1:Y:96:THR:HG23	1.39	1.19
1:4:35:GLY:O	1:b:257:ARG:HD3	1.05	1.19
1:d:37:SER:HA	1:r:257:ARG:CD	1.73	1.19
1:d:93:GLY:O	1:d:96:THR:HG23	1.39	1.19
1:g:37:SER:OG	1:m:257:ARG:HG2	1.02	1.19
1:w:37:SER:HA	1:7:257:ARG:CD	1.73	1.19
1:y:257:ARG:HG2	1:7:37:SER:OG	1.02	1.19
1:J:37:SER:HA	1:0:257:ARG:CD	1.73	1.19
1:V:257:ARG:CD	1:W:37:SER:HA	1.73	1.19
1:a:37:SER:HA	1:u:257:ARG:CD	1.73	1.19
1:J:37:SER:OG	1:0:257:ARG:HG2	1.01	1.19
1:M:93:GLY:O	1:M:96:THR:HG23	1.39	1.19
1:P:37:SER:OG	1:Q:257:ARG:HG2	1.02	1.19
1:1:37:SER:HA	1:i:257:ARG:CD	1.73	1.19
1:d:37:SER:OG	1:r:257:ARG:HG2	1.01	1.19
1:h:257:ARG:HG2	1:l:37:SER:OG	1.01	1.19
1:j:37:SER:HA	1:k:257:ARG:CD	1.73	1.19
1:6:93:GLY:O	1:6:96:THR:HG23	1.39	1.19
1:M:37:SER:OG	1:N:257:ARG:HG2	1.01	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:257:ARG:CD	1:3:37:SER:HA	1.73	1.19
1:U:93:GLY:O	1:U:96:THR:HG23	1.39	1.19
1:4:37:SER:OG	1:b:257:ARG:HG2	1.03	1.19
1:j:37:SER:OG	1:k:257:ARG:HG2	1.02	1.19
1:p:257:ARG:CD	1:u:37:SER:HA	1.73	1.19
1:p:257:ARG:HG2	1:u:37:SER:OG	1.02	1.19
1:A:36:HIS:NE2	1:E:34:VAL:CG2	2.06	1.18
1:K:257:ARG:HG2	1:6:37:SER:OG	1.01	1.18
1:O:93:GLY:O	1:O:96:THR:HG23	1.39	1.18
1:4:36:HIS:NE2	1:b:34:VAL:HG23	1.54	1.18
1:n:93:GLY:O	1:n:96:THR:HG23	1.39	1.18
1:n:257:ARG:HG2	1:s:37:SER:OG	1.02	1.18
1:B:93:GLY:O	1:B:96:THR:HG23	1.39	1.18
1:R:257:ARG:CD	1:V:37:SER:HA	1.74	1.18
1:U:37:SER:HA	1:4:257:ARG:CD	1.72	1.18
1:U:37:SER:OG	1:4:257:ARG:HG2	1.01	1.18
1:X:257:ARG:HG2	1:5:37:SER:OG	1.00	1.18
1:5:257:ARG:HG2	1:t:37:SER:OG	1.03	1.18
1:b:37:SER:OG	1:c:257:ARG:HG2	1.03	1.18
1:k:93:GLY:O	1:k:96:THR:HG23	1.39	1.18
1:v:37:SER:OG	1:w:257:ARG:HG2	1.02	1.18
1:z:93:GLY:O	1:z:96:THR:HG23	1.39	1.18
1:F:37:SER:HA	1:G:257:ARG:CD	1.73	1.18
1:G:37:SER:OG	1:W:257:ARG:HG2	1.01	1.18
1:I:37:SER:HA	1:J:257:ARG:CD	1.73	1.18
1:K:37:SER:HA	1:L:257:ARG:CD	1.74	1.18
1:K:257:ARG:CD	1:6:37:SER:HA	1.72	1.18
1:5:93:GLY:O	1:5:96:THR:HG23	1.39	1.18
1:f:257:ARG:HG2	1:h:37:SER:OG	1.02	1.18
1:j:257:ARG:HG2	1:z:37:SER:OG	1.01	1.18
1:o:37:SER:HA	1:v:257:ARG:CD	1.73	1.18
1:y:257:ARG:CD	1:7:37:SER:HA	1.74	1.18
1:A:257:ARG:CG	1:B:37:SER:OG	1.92	1.18
1:J:93:GLY:O	1:J:96:THR:HG23	1.39	1.18
1:O:37:SER:OG	1:P:257:ARG:CG	1.92	1.18
1:Q:93:GLY:O	1:Q:96:THR:HG23	1.39	1.18
1:S:37:SER:OG	1:3:257:ARG:HG2	1.01	1.18
1:S:93:GLY:O	1:S:96:THR:HG23	1.39	1.18
1:5:257:ARG:CD	1:t:37:SER:HA	1.73	1.18
1:a:93:GLY:O	1:a:96:THR:HG23	1.39	1.18
1:O:37:SER:HA	1:P:257:ARG:CD	1.72	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:37:SER:OG	1:u:257:ARG:CG	1.92	1.18
1:d:257:ARG:CD	1:f:37:SER:HA	1.73	1.18
1:o:37:SER:OG	1:v:257:ARG:HG2	1.01	1.18
1:B:257:ARG:CD	1:C:37:SER:HA	1.73	1.17
1:F:37:SER:OG	1:G:257:ARG:CG	1.93	1.17
1:M:257:ARG:CD	1:2:37:SER:HA	1.73	1.17
1:Q:37:SER:OG	1:S:257:ARG:CG	1.93	1.17
1:Z:257:ARG:HG2	1:0:37:SER:OG	1.02	1.17
1:a:257:ARG:CD	1:e:37:SER:HA	1.72	1.17
1:o:37:SER:OG	1:v:257:ARG:CG	1.93	1.17
1:F:37:SER:OG	1:G:257:ARG:HG2	1.01	1.17
1:F:257:ARG:CG	1:R:37:SER:OG	1.93	1.17
1:I:37:SER:OG	1:J:257:ARG:HG2	1.02	1.17
1:N:37:SER:HA	1:g:257:ARG:CD	1.73	1.17
1:X:37:SER:OG	1:Y:257:ARG:HG2	1.02	1.17
1:k:37:SER:HA	1:s:257:ARG:CD	1.73	1.17
1:k:37:SER:OG	1:s:257:ARG:CG	1.92	1.17
1:n:37:SER:OG	1:z:257:ARG:CG	1.93	1.17
1:o:257:ARG:CG	1:y:37:SER:OG	1.93	1.17
1:v:37:SER:HA	1:w:257:ARG:CD	1.73	1.17
1:C:257:ARG:HG2	1:D:37:SER:OG	1.02	1.17
1:F:257:ARG:CD	1:R:37:SER:HA	1.72	1.17
1:G:37:SER:HA	1:W:257:ARG:CD	1.73	1.17
1:H:257:ARG:HG2	1:Z:37:SER:OG	1.01	1.17
1:2:257:ARG:HG2	1:m:37:SER:OG	1.01	1.17
1:a:257:ARG:CG	1:e:37:SER:OG	1.92	1.17
1:e:257:ARG:HG2	1:q:37:SER:OG	1.02	1.17
1:l:257:ARG:CD	1:r:37:SER:HA	1.74	1.17
1:o:257:ARG:CD	1:y:37:SER:HA	1.73	1.17
1:B:257:ARG:HG2	1:C:37:SER:OG	1.01	1.17
1:B:257:ARG:CG	1:C:37:SER:OG	1.93	1.17
1:K:37:SER:OG	1:L:257:ARG:HG2	1.02	1.17
1:L:37:SER:OG	1:1:257:ARG:HG2	1.01	1.17
1:Z:257:ARG:CD	1:0:37:SER:HA	1.74	1.17
1:a:257:ARG:HG2	1:e:37:SER:OG	1.01	1.17
1:g:37:SER:HA	1:m:257:ARG:CD	1.73	1.17
1:h:257:ARG:CD	1:l:37:SER:HA	1.73	1.17
1:n:37:SER:HA	1:z:257:ARG:CD	1.73	1.17
1:p:37:SER:HA	1:q:257:ARG:CD	1.72	1.17
1:t:257:ARG:HG2	1:x:37:SER:OG	1.01	1.17
1:D:257:ARG:CD	1:E:37:SER:HA	1.73	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:37:SER:HA	1:I:257:ARG:CD	1.73	1.17
1:H:257:ARG:CG	1:Z:37:SER:OG	1.93	1.17
1:M:257:ARG:HG2	1:2:37:SER:OG	1.02	1.17
1:Q:37:SER:HA	1:S:257:ARG:CD	1.73	1.17
1:T:257:ARG:CG	1:c:37:SER:OG	1.92	1.17
1:X:37:SER:HA	1:Y:257:ARG:CD	1.74	1.17
1:Y:37:SER:OG	1:x:257:ARG:CG	1.93	1.17
1:Y:37:SER:OG	1:x:257:ARG:HG2	1.01	1.17
1:a:37:SER:OG	1:u:257:ARG:HG2	1.00	1.17
1:t:257:ARG:CD	1:x:37:SER:HA	1.73	1.17
1:D:257:ARG:HG2	1:E:37:SER:OG	1.01	1.16
1:H:37:SER:OG	1:I:257:ARG:HG2	1.01	1.16
1:N:37:SER:OG	1:g:257:ARG:CG	1.93	1.16
1:O:37:SER:OG	1:P:257:ARG:HG2	1.01	1.16
1:Q:37:SER:OG	1:S:257:ARG:HG2	1.01	1.16
1:T:37:SER:OG	1:U:257:ARG:HG2	1.02	1.16
1:T:37:SER:HA	1:U:257:ARG:CD	1.73	1.16
1:1:37:SER:OG	1:i:257:ARG:HG2	1.01	1.16
1:1:37:SER:OG	1:i:257:ARG:CG	1.92	1.16
1:d:257:ARG:HG2	1:f:37:SER:OG	1.02	1.16
1:i:37:SER:OG	1:6:257:ARG:HG2	1.02	1.16
1:k:37:SER:OG	1:s:257:ARG:HG2	1.01	1.16
1:n:257:ARG:CG	1:s:37:SER:OG	1.93	1.16
1:G:37:SER:OG	1:W:257:ARG:CG	1.93	1.16
1:P:37:SER:OG	1:Q:257:ARG:CG	1.94	1.16
1:S:37:SER:HA	1:3:257:ARG:CD	1.73	1.16
1:V:257:ARG:HG2	1:W:37:SER:OG	1.01	1.16
1:X:257:ARG:CG	1:5:37:SER:OG	1.91	1.16
1:i:37:SER:HA	1:6:257:ARG:CD	1.73	1.16
1:j:257:ARG:CD	1:z:37:SER:HA	1.73	1.16
1:p:257:ARG:CG	1:u:37:SER:OG	1.93	1.16
1:v:37:SER:OG	1:w:257:ARG:CG	1.93	1.16
1:C:257:ARG:CG	1:D:37:SER:OG	1.93	1.16
1:M:37:SER:OG	1:N:257:ARG:CG	1.92	1.16
1:P:93:GLY:O	1:P:96:THR:HG23	1.39	1.16
1:d:37:SER:OG	1:r:257:ARG:CG	1.92	1.16
1:e:257:ARG:CD	1:q:37:SER:HA	1.74	1.16
1:l:257:ARG:CG	1:r:37:SER:OG	1.93	1.16
1:n:37:SER:OG	1:z:257:ARG:HG2	1.01	1.16
1:p:37:SER:OG	1:q:257:ARG:HG2	1.01	1.16
1:s:93:GLY:O	1:s:96:THR:HG23	1.39	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:ARG:HG2	1:B:37:SER:OG	1.00	1.16
1:C:257:ARG:CD	1:D:37:SER:HA	1.74	1.16
1:O:36:HIS:HE1	1:P:33:GLY:C	1.54	1.16
1:T:257:ARG:HG2	1:c:37:SER:OG	1.01	1.16
1:X:33:GLY:C	1:5:36:HIS:HE1	1.53	1.16
1:4:36:HIS:NE2	1:b:34:VAL:CG2	2.08	1.16
1:e:257:ARG:CG	1:q:37:SER:OG	1.93	1.16
1:h:257:ARG:CG	1:l:37:SER:OG	1.93	1.16
1:w:37:SER:OG	1:7:257:ARG:HG2	1.01	1.16
1:D:257:ARG:CG	1:E:37:SER:OG	1.92	1.16
1:H:33:GLY:C	1:Z:36:HIS:HE1	1.54	1.16
1:I:37:SER:OG	1:J:257:ARG:CG	1.93	1.16
1:L:37:SER:OG	1:1:257:ARG:CG	1.93	1.16
1:Y:36:HIS:HE1	1:x:33:GLY:C	1.54	1.16
1:2:257:ARG:CD	1:m:37:SER:HA	1.73	1.16
1:2:257:ARG:CG	1:m:37:SER:OG	1.92	1.16
1:g:37:SER:OG	1:m:257:ARG:CG	1.93	1.16
1:j:37:SER:OG	1:k:257:ARG:CG	1.93	1.16
1:w:37:SER:OG	1:7:257:ARG:CG	1.92	1.16
1:S:37:SER:OG	1:3:257:ARG:CG	1.93	1.15
1:V:257:ARG:CG	1:W:37:SER:OG	1.92	1.15
1:p:37:SER:OG	1:q:257:ARG:CG	1.92	1.15
1:A:37:SER:HA	1:E:257:ARG:CD	1.76	1.15
1:D:33:GLY:C	1:E:36:HIS:HE1	1.55	1.15
1:J:37:SER:OG	1:0:257:ARG:CG	1.92	1.15
1:O:33:GLY:C	1:3:36:HIS:HE1	1.55	1.15
1:U:37:SER:OG	1:4:257:ARG:CG	1.92	1.15
1:a:33:GLY:C	1:e:36:HIS:HE1	1.53	1.15
1:f:257:ARG:CD	1:h:37:SER:HA	1.73	1.15
1:j:36:HIS:HE1	1:k:33:GLY:C	1.55	1.15
1:j:257:ARG:CG	1:z:37:SER:OG	1.93	1.15
1:k:36:HIS:HE1	1:s:33:GLY:C	1.55	1.15
1:p:36:HIS:HE1	1:q:33:GLY:C	1.55	1.15
1:H:37:SER:OG	1:I:257:ARG:CG	1.92	1.15
1:K:257:ARG:CG	1:6:37:SER:OG	1.92	1.15
1:O:257:ARG:CG	1:3:37:SER:OG	1.94	1.15
1:T:37:SER:OG	1:U:257:ARG:CG	1.93	1.15
1:F:36:HIS:HE1	1:G:33:GLY:C	1.55	1.15
1:K:37:SER:OG	1:L:257:ARG:CG	1.93	1.15
1:M:33:GLY:C	1:2:36:HIS:HE1	1.55	1.15
1:R:257:ARG:CG	1:V:37:SER:OG	1.93	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:37:SER:OG	1:Y:257:ARG:CG	1.94	1.15
1:Z:257:ARG:CG	1:0:37:SER:OG	1.93	1.15
1:5:257:ARG:CG	1:t:37:SER:OG	1.94	1.15
1:d:33:GLY:C	1:f:36:HIS:HE1	1.55	1.15
1:f:257:ARG:CG	1:h:37:SER:OG	1.93	1.15
1:i:37:SER:OG	1:6:257:ARG:CG	1.93	1.15
1:o:36:HIS:HE1	1:v:33:GLY:C	1.55	1.15
1:y:257:ARG:CG	1:7:37:SER:OG	1.93	1.15
1:R:33:GLY:C	1:V:36:HIS:HE1	1.55	1.15
1:X:36:HIS:HE1	1:Y:33:GLY:C	1.55	1.15
1:Z:33:GLY:C	1:0:36:HIS:HE1	1.55	1.15
1:a:36:HIS:HE1	1:u:33:GLY:C	1.55	1.15
1:d:257:ARG:CG	1:f:37:SER:OG	1.93	1.15
1:e:93:GLY:O	1:e:96:THR:HG23	1.39	1.15
1:t:257:ARG:CG	1:x:37:SER:OG	1.93	1.15
1:y:33:GLY:C	1:7:36:HIS:HE1	1.55	1.15
1:B:33:GLY:C	1:C:36:HIS:HE1	1.54	1.14
1:H:36:HIS:HE1	1:I:33:GLY:C	1.55	1.14
1:J:36:HIS:HE1	1:0:33:GLY:C	1.55	1.14
1:P:37:SER:HA	1:Q:257:ARG:CD	1.74	1.14
1:n:36:HIS:HE1	1:z:33:GLY:C	1.54	1.14
1:C:93:GLY:O	1:C:96:THR:HG23	1.39	1.14
1:M:257:ARG:CG	1:2:37:SER:OG	1.93	1.14
1:Q:36:HIS:HE1	1:S:33:GLY:C	1.54	1.14
1:5:33:GLY:C	1:t:36:HIS:HE1	1.54	1.14
1:t:33:GLY:C	1:x:36:HIS:HE1	1.55	1.14
1:V:33:GLY:C	1:W:36:HIS:HE1	1.55	1.14
1:g:36:HIS:HE1	1:m:33:GLY:C	1.54	1.14
1:n:257:ARG:CD	1:s:37:SER:HA	1.74	1.14
1:w:36:HIS:HE1	1:7:33:GLY:C	1.55	1.14
1:N:36:HIS:HE1	1:g:33:GLY:C	1.55	1.14
1:l:33:GLY:C	1:r:36:HIS:HE1	1.55	1.14
1:L:36:HIS:HE1	1:1:33:GLY:C	1.54	1.14
1:T:36:HIS:HE1	1:U:33:GLY:C	1.55	1.14
1:h:33:GLY:C	1:l:36:HIS:HE1	1.55	1.14
1:i:36:HIS:HE1	1:6:33:GLY:C	1.55	1.14
1:I:36:HIS:HE1	1:J:33:GLY:C	1.55	1.13
1:S:36:HIS:HE1	1:3:33:GLY:C	1.55	1.13
1:p:33:GLY:C	1:u:36:HIS:HE1	1.55	1.13
1:A:33:GLY:C	1:B:36:HIS:HE1	1.56	1.13
1:K:33:GLY:C	1:6:36:HIS:HE1	1.55	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:36:HIS:HE1	1:4:33:GLY:C	1.54	1.13
1:2:33:GLY:C	1:m:36:HIS:HE1	1.55	1.13
1:4:37:SER:HA	1:b:257:ARG:CD	1.78	1.13
1:j:33:GLY:C	1:z:36:HIS:HE1	1.55	1.13
1:n:33:GLY:C	1:s:36:HIS:HE1	1.55	1.13
1:A:36:HIS:HE1	1:E:33:GLY:C	1.56	1.13
1:A:37:SER:OG	1:E:257:ARG:CG	1.96	1.13
1:B:98:ASN:CB	1:L:316:ARG:NH2	2.12	1.13
1:P:36:HIS:HE1	1:Q:33:GLY:C	1.55	1.13
1:f:33:GLY:C	1:h:36:HIS:HE1	1.55	1.13
1:k:316:ARG:NH2	1:l:98:ASN:CB	2.12	1.13
1:D:98:ASN:CB	1:P:316:ARG:NH2	2.12	1.13
1:O:316:ARG:NH2	1:g:98:ASN:CB	2.12	1.13
1:b:37:SER:OG	1:c:257:ARG:CG	1.95	1.13
1:A:98:ASN:CB	1:I:316:ARG:NH2	2.12	1.12
1:C:98:ASN:CB	1:M:316:ARG:NH2	2.12	1.13
1:O:98:ASN:CB	1:h:316:ARG:NH2	2.12	1.12
1:T:33:GLY:C	1:c:36:HIS:HE1	1.55	1.12
1:1:36:HIS:HE1	1:i:33:GLY:C	1.55	1.13
1:4:37:SER:OG	1:b:257:ARG:CG	1.96	1.12
1:c:316:ARG:NH2	1:d:98:ASN:CB	2.12	1.12
1:q:98:ASN:CB	1:s:316:ARG:NH2	2.12	1.13
1:E:98:ASN:CB	1:F:316:ARG:NH2	2.12	1.12
1:G:316:ARG:NH2	1:I:98:ASN:CB	2.12	1.12
1:J:316:ARG:NH2	1:L:98:ASN:CB	2.12	1.12
1:d:316:ARG:NH2	1:e:98:ASN:CB	2.12	1.12
1:k:98:ASN:CB	1:m:316:ARG:NH2	2.12	1.12
1:t:98:ASN:CB	1:v:316:ARG:NH2	2.12	1.12
1:F:33:GLY:C	1:R:36:HIS:HE1	1.54	1.12
1:G:36:HIS:HE1	1:W:33:GLY:C	1.55	1.12
1:K:36:HIS:HE1	1:L:33:GLY:C	1.55	1.12
1:K:98:ASN:CB	1:7:316:ARG:NH2	2.12	1.12
1:M:98:ASN:CB	1:1:316:ARG:NH2	2.12	1.12
1:o:33:GLY:C	1:y:36:HIS:HE1	1.54	1.12
1:o:316:ARG:NH2	1:p:98:ASN:CB	2.12	1.12
1:v:36:HIS:HE1	1:w:33:GLY:C	1.55	1.12
1:V:316:ARG:NH2	1:4:98:ASN:CB	2.12	1.12
1:0:316:ARG:NH2	1:7:98:ASN:CB	2.12	1.12
1:5:98:ASN:CB	1:a:316:ARG:NH2	2.12	1.12
1:R:98:ASN:CB	1:U:316:ARG:NH2	2.12	1.12
1:V:98:ASN:CB	1:X:316:ARG:NH2	2.12	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:316:ARG:NH2	1:f:98:ASN:CB	2.12	1.12
1:b:36:HIS:HE1	1:c:33:GLY:C	1.55	1.12
1:H:316:ARG:NH2	1:W:98:ASN:CB	2.12	1.12
1:M:33:GLY:O	1:M:36:HIS:HD2	1.28	1.12
1:T:316:ARG:NH2	1:3:98:ASN:CB	2.12	1.12
1:X:98:ASN:CB	1:4:316:ARG:NH2	2.12	1.12
1:2:98:ASN:CB	1:j:316:ARG:NH2	2.12	1.12
1:i:316:ARG:NH2	1:j:98:ASN:CB	2.12	1.12
1:t:316:ARG:NH2	1:u:98:ASN:CB	2.12	1.12
1:w:98:ASN:CB	1:x:316:ARG:NH2	2.12	1.12
1:y:98:ASN:CB	1:6:316:ARG:NH2	2.12	1.12
1:K:316:ARG:NH2	1:0:98:ASN:CB	2.12	1.11
1:M:36:HIS:HE1	1:N:33:GLY:C	1.55	1.11
1:R:316:ARG:NH2	1:S:98:ASN:CB	2.12	1.11
1:d:36:HIS:HE1	1:r:33:GLY:C	1.55	1.11
1:B:316:ARG:NH2	1:J:98:ASN:CB	2.12	1.11
1:C:33:GLY:C	1:D:36:HIS:HE1	1.55	1.11
1:D:316:ARG:NH2	1:N:98:ASN:CB	2.12	1.11
1:E:316:ARG:NH2	1:Q:98:ASN:CB	2.12	1.11
1:F:98:ASN:CB	1:Q:316:ARG:NH2	2.12	1.11
1:c:98:ASN:CB	1:e:316:ARG:NH2	2.12	1.11
1:d:33:GLY:O	1:d:36:HIS:HD2	1.28	1.11
1:e:33:GLY:C	1:q:36:HIS:HE1	1.55	1.11
1:n:98:ASN:CB	1:p:316:ARG:NH2	2.12	1.11
1:n:316:ARG:NH2	1:o:98:ASN:CB	2.12	1.11
1:q:316:ARG:NH2	1:r:98:ASN:CB	2.12	1.11
1:y:316:ARG:NH2	1:z:98:ASN:CB	2.12	1.11
1:H:98:ASN:CB	1:Y:316:ARG:NH2	2.12	1.11
1:g:316:ARG:NH2	1:h:98:ASN:CB	2.12	1.11
1:z:316:ARG:NH2	1:6:98:ASN:CB	2.12	1.11
1:C:316:ARG:NH2	1:1:98:ASN:CB	2.12	1.11
1:S:316:ARG:NH2	1:U:98:ASN:CB	2.12	1.11
1:N:316:ARG:NH2	1:P:98:ASN:CB	2.12	1.11
1:T:98:ASN:CB	1:f:316:ARG:NH2	2.12	1.11
1:V:33:GLY:O	1:V:36:HIS:HD2	1.29	1.11
1:Z:316:ARG:NH2	1:x:98:ASN:CB	2.12	1.11
1:l:316:ARG:NH2	1:m:98:ASN:CB	2.12	1.11
1:7:33:GLY:O	1:7:36:HIS:HD2	1.28	1.11
1:2:316:ARG:NH2	1:i:98:ASN:CB	2.12	1.10
1:g:244:PHE:CE2	1:g:246:PRO:HB3	1.87	1.10
1:l:244:PHE:CE2	1:l:246:PRO:HB3	1.87	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:316:ARG:NH2	1:s:98:ASN:CB	2.12	1.10
1:C:244:PHE:CE2	1:C:246:PRO:HB3	1.87	1.10
1:H:33:GLY:O	1:H:36:HIS:HD2	1.28	1.10
1:M:244:PHE:CE2	1:M:246:PRO:HB3	1.87	1.10
1:O:244:PHE:CE2	1:O:246:PRO:HB3	1.87	1.10
1:R:244:PHE:CE2	1:R:246:PRO:HB3	1.87	1.10
1:1:244:PHE:CE2	1:1:246:PRO:HB3	1.87	1.10
1:c:244:PHE:CE2	1:c:246:PRO:HB3	1.87	1.10
1:d:244:PHE:CE2	1:d:246:PRO:HB3	1.87	1.10
1:e:244:PHE:CE2	1:e:246:PRO:HB3	1.87	1.10
1:j:33:GLY:O	1:j:36:HIS:HD2	1.28	1.10
1:j:244:PHE:CE2	1:j:246:PRO:HB3	1.87	1.10
1:k:244:PHE:CE2	1:k:246:PRO:HB3	1.87	1.10
1:u:316:ARG:NH2	1:v:98:ASN:CB	2.12	1.10
1:F:33:GLY:O	1:F:36:HIS:HD2	1.28	1.10
1:Q:244:PHE:CE2	1:Q:246:PRO:HB3	1.87	1.10
1:S:33:GLY:O	1:S:36:HIS:HD2	1.28	1.10
1:U:33:GLY:O	1:U:36:HIS:HD2	1.28	1.10
1:Z:244:PHE:CE2	1:Z:246:PRO:HB3	1.87	1.10
1:3:244:PHE:CE2	1:3:246:PRO:HB3	1.87	1.10
1:n:244:PHE:CE2	1:n:246:PRO:HB3	1.87	1.10
1:y:244:PHE:CE2	1:y:246:PRO:HB3	1.87	1.10
1:X:244:PHE:CE2	1:X:246:PRO:HB3	1.86	1.10
1:Y:244:PHE:CE2	1:Y:246:PRO:HB3	1.87	1.10
1:0:244:PHE:CE2	1:0:246:PRO:HB3	1.87	1.10
1:3:33:GLY:O	1:3:36:HIS:HD2	1.28	1.10
1:a:244:PHE:CE2	1:a:246:PRO:HB3	1.87	1.10
1:o:33:GLY:O	1:o:36:HIS:HD2	1.28	1.10
1:v:244:PHE:CE2	1:v:246:PRO:HB3	1.87	1.10
1:x:33:GLY:O	1:x:36:HIS:HD2	1.28	1.10
1:B:244:PHE:CE2	1:B:246:PRO:HB3	1.87	1.10
1:G:244:PHE:CE2	1:G:246:PRO:HB3	1.87	1.10
1:4:35:GLY:O	1:b:257:ARG:CD	2.00	1.10
1:b:35:GLY:O	1:c:257:ARG:CD	1.99	1.10
1:i:244:PHE:CE2	1:i:246:PRO:HB3	1.87	1.10
1:q:33:GLY:O	1:q:36:HIS:HD2	1.28	1.10
1:z:33:GLY:O	1:z:36:HIS:HD2	1.28	1.10
1:A:244:PHE:CE2	1:A:246:PRO:HB3	1.87	1.09
1:T:244:PHE:CE2	1:T:246:PRO:HB3	1.87	1.09
1:W:316:ARG:NH2	1:Y:98:ASN:CB	2.12	1.09
1:u:244:PHE:CE2	1:u:246:PRO:HB3	1.86	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:33:GLY:O	1:6:36:HIS:HD2	1.28	1.09
1:A:528:TRP:HB2	1:G:246:PRO:HG3	1.34	1.09
1:D:244:PHE:CE2	1:D:246:PRO:HB3	1.87	1.09
1:L:244:PHE:CE2	1:L:246:PRO:HB3	1.87	1.09
1:S:244:PHE:CE2	1:S:246:PRO:HB3	1.87	1.09
1:Z:98:ASN:CB	1:w:316:ARG:NH2	2.12	1.09
1:z:244:PHE:CE2	1:z:246:PRO:HB3	1.87	1.09
1:A:316:ARG:NH2	1:G:98:ASN:CB	2.13	1.09
1:D:33:GLY:O	1:D:36:HIS:HD2	1.28	1.09
1:N:244:PHE:CE2	1:N:246:PRO:HB3	1.87	1.09
1:P:244:PHE:CE2	1:P:246:PRO:HB3	1.87	1.09
1:W:244:PHE:CE2	1:W:246:PRO:HB3	1.87	1.09
1:2:244:PHE:CE2	1:2:246:PRO:HB3	1.86	1.09
1:5:316:ARG:NH2	1:b:98:ASN:CB	2.16	1.09
1:b:244:PHE:CE2	1:b:246:PRO:HB3	1.87	1.09
1:q:244:PHE:CE2	1:q:246:PRO:HB3	1.87	1.09
1:r:244:PHE:CE2	1:r:246:PRO:HB3	1.87	1.09
1:s:244:PHE:CE2	1:s:246:PRO:HB3	1.87	1.09
1:w:244:PHE:CE2	1:w:246:PRO:HB3	1.87	1.09
1:f:244:PHE:CE2	1:f:246:PRO:HB3	1.87	1.09
1:o:244:PHE:CE2	1:o:246:PRO:HB3	1.87	1.09
1:7:244:PHE:CE2	1:7:246:PRO:HB3	1.87	1.09
1:F:244:PHE:CE2	1:F:246:PRO:HB3	1.87	1.09
1:V:244:PHE:CE2	1:V:246:PRO:HB3	1.87	1.09
1:t:244:PHE:CE2	1:t:246:PRO:HB3	1.87	1.09
1:I:244:PHE:CE2	1:I:246:PRO:HB3	1.87	1.08
1:4:244:PHE:CE2	1:4:246:PRO:HB3	1.87	1.08
1:h:244:PHE:CE2	1:h:246:PRO:HB3	1.87	1.08
1:m:244:PHE:CE2	1:m:246:PRO:HB3	1.87	1.08
1:A:35:GLY:O	1:E:257:ARG:CD	2.01	1.08
1:E:244:PHE:CE2	1:E:246:PRO:HB3	1.87	1.08
1:J:244:PHE:CE2	1:J:246:PRO:HB3	1.87	1.08
1:K:244:PHE:CE2	1:K:246:PRO:HB3	1.87	1.08
1:5:244:PHE:CE2	1:5:246:PRO:HB3	1.87	1.08
1:p:244:PHE:CE2	1:p:246:PRO:HB3	1.87	1.08
1:6:244:PHE:CE2	1:6:246:PRO:HB3	1.87	1.08
1:U:244:PHE:CE2	1:U:246:PRO:HB3	1.87	1.08
1:H:244:PHE:CE2	1:H:246:PRO:HB3	1.87	1.08
1:g:33:GLY:O	1:g:36:HIS:HD2	1.29	1.08
1:l:33:GLY:O	1:l:36:HIS:HD2	1.28	1.08
1:P:33:GLY:O	1:P:36:HIS:HD2	1.28	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:33:GLY:O	1:h:36:HIS:HD2	1.28	1.08
1:x:244:PHE:CE2	1:x:246:PRO:HB3	1.87	1.08
1:a:246:PRO:HG3	1:b:528:TRP:HB2	1.34	1.07
1:D:246:PRO:HG3	1:P:528:TRP:HB2	1.37	1.07
1:X:257:ARG:CD	1:5:37:SER:CA	2.31	1.07
1:e:33:GLY:O	1:e:36:HIS:HD2	1.28	1.07
1:u:528:TRP:HB2	1:v:246:PRO:HG3	1.37	1.07
1:A:528:TRP:CB	1:G:246:PRO:HG3	1.84	1.07
1:K:35:GLY:O	1:L:257:ARG:CD	2.03	1.07
1:b:37:SER:CA	1:c:257:ARG:CD	2.30	1.07
1:c:246:PRO:HG3	1:e:528:TRP:HB2	1.37	1.07
1:m:33:GLY:O	1:m:36:HIS:HD2	1.28	1.07
1:q:246:PRO:HG3	1:s:528:TRP:HB2	1.37	1.07
1:s:33:GLY:O	1:s:36:HIS:HD2	1.28	1.07
1:v:35:GLY:O	1:w:257:ARG:CD	2.03	1.07
1:C:528:TRP:HB2	1:1:246:PRO:HG3	1.37	1.07
1:G:35:GLY:O	1:W:257:ARG:CD	2.03	1.07
1:J:37:SER:CA	1:0:257:ARG:CD	2.32	1.07
1:n:35:GLY:O	1:z:257:ARG:CD	2.03	1.07
1:C:33:GLY:O	1:C:36:HIS:HD2	1.28	1.07
1:H:257:ARG:CD	1:Z:35:GLY:O	2.03	1.07
1:I:37:SER:CA	1:J:257:ARG:CD	2.32	1.07
1:Q:35:GLY:O	1:S:257:ARG:CD	2.03	1.07
1:R:257:ARG:CD	1:V:35:GLY:O	2.03	1.07
1:0:528:TRP:HB2	1:7:246:PRO:HG3	1.37	1.07
1:5:257:ARG:CD	1:t:35:GLY:O	2.02	1.07
1:t:246:PRO:HG3	1:v:528:TRP:HB2	1.37	1.07
1:w:33:GLY:O	1:w:36:HIS:HD2	1.28	1.07
1:y:257:ARG:CD	1:7:35:GLY:O	2.03	1.07
1:G:528:TRP:HB2	1:I:246:PRO:HG3	1.37	1.06
1:M:246:PRO:HG3	1:1:528:TRP:HB2	1.37	1.06
1:P:35:GLY:O	1:Q:257:ARG:CD	2.02	1.06
1:Y:35:GLY:O	1:x:257:ARG:CD	2.03	1.06
1:d:257:ARG:CD	1:f:37:SER:CA	2.32	1.06
1:k:35:GLY:O	1:s:257:ARG:CD	2.03	1.06
1:n:257:ARG:CD	1:s:35:GLY:O	2.03	1.06
1:B:528:TRP:HB2	1:J:246:PRO:HG3	1.37	1.06
1:E:246:PRO:HG3	1:F:528:TRP:HB2	1.37	1.06
1:F:35:GLY:O	1:G:257:ARG:CD	2.03	1.06
1:F:257:ARG:CD	1:R:35:GLY:O	2.03	1.06
1:T:35:GLY:O	1:U:257:ARG:CD	2.03	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:246:PRO:HG3	1:X:528:TRP:HB2	1.37	1.06
1:W:33:GLY:O	1:W:36:HIS:HD2	1.28	1.06
1:1:35:GLY:O	1:i:257:ARG:CD	2.03	1.06
1:f:257:ARG:CD	1:h:35:GLY:O	2.03	1.06
1:i:35:GLY:O	1:6:257:ARG:CD	2.03	1.06
1:o:35:GLY:O	1:v:257:ARG:CD	2.03	1.06
1:A:257:ARG:CD	1:B:37:SER:CA	2.31	1.06
1:L:35:GLY:O	1:1:257:ARG:CD	2.03	1.06
1:M:35:GLY:O	1:N:257:ARG:CD	2.03	1.06
1:M:257:ARG:CD	1:2:37:SER:CA	2.32	1.06
1:O:246:PRO:HG3	1:h:528:TRP:HB2	1.37	1.06
1:O:257:ARG:CD	1:3:35:GLY:O	2.02	1.06
1:V:257:ARG:CD	1:W:35:GLY:O	2.03	1.06
1:5:257:ARG:CD	1:t:37:SER:CA	2.33	1.06
1:e:257:ARG:CD	1:q:35:GLY:O	2.03	1.06
1:h:257:ARG:CD	1:l:37:SER:CA	2.32	1.06
1:k:221:ILE:HG22	1:m:429:ARG:HD3	1.38	1.06
1:k:246:PRO:HG3	1:m:528:TRP:HB2	1.37	1.06
1:o:257:ARG:CD	1:y:35:GLY:O	2.03	1.06
1:o:528:TRP:HB2	1:p:246:PRO:HG3	1.37	1.06
1:p:257:ARG:CD	1:u:35:GLY:O	2.03	1.06
1:A:257:ARG:CD	1:B:35:GLY:O	2.03	1.06
1:C:257:ARG:CD	1:D:35:GLY:O	2.03	1.06
1:D:528:TRP:HB2	1:N:246:PRO:HG3	1.36	1.06
1:L:37:SER:CA	1:1:257:ARG:CD	2.32	1.06
1:M:257:ARG:CD	1:2:35:GLY:O	2.03	1.06
1:T:257:ARG:CD	1:c:35:GLY:O	2.03	1.06
1:Z:257:ARG:CD	1:0:35:GLY:O	2.03	1.06
1:5:221:ILE:HG22	1:a:429:ARG:HD3	1.37	1.06
1:c:528:TRP:HB2	1:d:246:PRO:HG3	1.37	1.06
1:d:35:GLY:O	1:r:257:ARG:CD	2.03	1.06
1:g:37:SER:CA	1:m:257:ARG:CD	2.33	1.06
1:q:528:TRP:HB2	1:r:246:PRO:HG3	1.37	1.06
1:w:35:GLY:O	1:7:257:ARG:CD	2.03	1.06
1:I:35:GLY:O	1:J:257:ARG:CD	2.03	1.06
1:O:35:GLY:O	1:P:257:ARG:CD	2.04	1.06
1:O:221:ILE:HG22	1:h:429:ARG:HD3	1.38	1.06
1:X:35:GLY:O	1:Y:257:ARG:CD	2.02	1.06
1:d:257:ARG:CD	1:f:35:GLY:O	2.03	1.06
1:f:33:GLY:O	1:f:36:HIS:HD2	1.28	1.06
1:g:35:GLY:O	1:m:257:ARG:CD	2.03	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:528:TRP:HB2	1:h:246:PRO:HG3	1.37	1.06
1:j:35:GLY:O	1:k:257:ARG:CD	2.03	1.06
1:K:257:ARG:CD	1:6:35:GLY:O	2.03	1.05
1:K:528:TRP:HB2	1:0:246:PRO:HG3	1.37	1.05
1:N:35:GLY:O	1:g:257:ARG:CD	2.03	1.05
1:2:33:GLY:O	1:2:36:HIS:HD2	1.28	1.05
1:2:257:ARG:CD	1:m:35:GLY:O	2.03	1.05
1:4:36:HIS:HE1	1:b:33:GLY:C	1.62	1.05
1:d:528:TRP:HB2	1:e:246:PRO:HG3	1.37	1.05
1:h:101:TYR:OH	1:h:236:GLY:HA3	1.57	1.05
1:h:257:ARG:CD	1:l:35:GLY:O	2.03	1.05
1:l:257:ARG:CD	1:r:35:GLY:O	2.03	1.05
1:l:528:TRP:HB2	1:m:246:PRO:HG3	1.37	1.05
1:m:101:TYR:OH	1:m:236:GLY:HA3	1.56	1.05
1:n:257:ARG:CD	1:s:37:SER:CA	2.33	1.05
1:v:101:TYR:OH	1:v:236:GLY:HA3	1.56	1.05
1:B:221:ILE:HG22	1:L:429:ARG:HD3	1.38	1.05
1:B:257:ARG:CD	1:C:35:GLY:O	2.03	1.05
1:B:429:ARG:HD3	1:J:221:ILE:HG22	1.38	1.05
1:C:246:PRO:HG3	1:M:528:TRP:HB2	1.37	1.05
1:D:257:ARG:CD	1:E:37:SER:CA	2.32	1.05
1:F:221:ILE:HG22	1:Q:429:ARG:HD3	1.38	1.05
1:G:101:TYR:OH	1:G:236:GLY:HA3	1.56	1.05
1:P:37:SER:CA	1:Q:257:ARG:CD	2.33	1.05
1:S:429:ARG:HD3	1:U:221:ILE:HG22	1.38	1.05
1:T:221:ILE:HG22	1:f:429:ARG:HD3	1.39	1.05
1:U:35:GLY:O	1:4:257:ARG:CD	2.03	1.05
1:W:101:TYR:OH	1:W:236:GLY:HA3	1.56	1.05
1:X:33:GLY:O	1:X:36:HIS:HD2	1.28	1.05
1:2:429:ARG:HD3	1:i:221:ILE:HG22	1.38	1.05
1:a:35:GLY:O	1:u:257:ARG:CD	2.04	1.05
1:n:429:ARG:HD3	1:o:221:ILE:HG22	1.38	1.05
1:o:101:TYR:OH	1:o:236:GLY:HA3	1.56	1.05
1:t:101:TYR:OH	1:t:236:GLY:HA3	1.56	1.05
1:B:191:PHE:CE1	1:B:470:HIS:CE1	2.45	1.05
1:C:221:ILE:HG22	1:M:429:ARG:HD3	1.38	1.05
1:F:101:TYR:OH	1:F:236:GLY:HA3	1.57	1.05
1:I:101:TYR:OH	1:I:236:GLY:HA3	1.56	1.05
1:J:35:GLY:O	1:0:257:ARG:CD	2.03	1.05
1:Q:33:GLY:O	1:Q:36:HIS:HD2	1.28	1.05
1:S:35:GLY:O	1:3:257:ARG:CD	2.03	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:191:PHE:CE1	1:T:470:HIS:CE1	2.45	1.05
1:T:528:TRP:HB2	1:3:246:PRO:HG3	1.37	1.05
1:V:221:ILE:HG22	1:X:429:ARG:HD3	1.38	1.05
1:V:246:PRO:HG3	1:X:528:TRP:CB	1.87	1.05
1:X:246:PRO:HG3	1:4:528:TRP:HB2	1.37	1.05
1:0:528:TRP:CB	1:7:246:PRO:HG3	1.87	1.05
1:2:257:ARG:CD	1:m:37:SER:CA	2.32	1.05
1:d:191:PHE:CE1	1:d:470:HIS:CE1	2.45	1.05
1:i:191:PHE:CE1	1:i:470:HIS:CE1	2.45	1.05
1:j:37:SER:CA	1:k:257:ARG:CD	2.33	1.05
1:j:257:ARG:CD	1:z:35:GLY:O	2.03	1.05
1:r:528:TRP:CB	1:s:246:PRO:HG3	1.87	1.05
1:w:101:TYR:OH	1:w:236:GLY:HA3	1.56	1.05
1:z:429:ARG:HD3	1:6:221:ILE:HG22	1.38	1.05
1:H:35:GLY:O	1:I:257:ARG:CD	2.03	1.05
1:H:429:ARG:HD3	1:W:221:ILE:HG22	1.38	1.05
1:K:33:GLY:O	1:K:36:HIS:HD2	1.28	1.05
1:K:246:PRO:HG3	1:7:528:TRP:CB	1.87	1.05
1:M:101:TYR:OH	1:M:236:GLY:HA3	1.57	1.05
1:M:191:PHE:CE1	1:M:470:HIS:CE1	2.45	1.05
1:N:528:TRP:CB	1:P:246:PRO:HG3	1.87	1.05
1:O:429:ARG:HD3	1:g:221:ILE:HG22	1.38	1.05
1:S:191:PHE:CE1	1:S:470:HIS:CE1	2.45	1.05
1:T:101:TYR:OH	1:T:236:GLY:HA3	1.56	1.05
1:V:528:TRP:CB	1:4:246:PRO:HG3	1.87	1.05
1:W:191:PHE:CE1	1:W:470:HIS:CE1	2.45	1.05
1:Y:191:PHE:CE1	1:Y:470:HIS:CE1	2.45	1.05
1:Z:191:PHE:CE1	1:Z:470:HIS:CE1	2.45	1.05
1:4:33:GLY:O	1:4:36:HIS:HD2	1.28	1.05
1:4:101:TYR:OH	1:4:236:GLY:HA3	1.56	1.05
1:a:101:TYR:OH	1:a:236:GLY:HA3	1.56	1.05
1:a:191:PHE:CE1	1:a:470:HIS:CE1	2.45	1.05
1:a:246:PRO:HG3	1:b:528:TRP:CB	1.86	1.05
1:i:101:TYR:OH	1:i:236:GLY:HA3	1.56	1.05
1:i:528:TRP:HB2	1:j:246:PRO:HG3	1.37	1.05
1:n:33:GLY:O	1:n:36:HIS:HD2	1.28	1.05
1:t:257:ARG:CD	1:x:35:GLY:O	2.03	1.05
1:v:191:PHE:CE1	1:v:470:HIS:CE1	2.45	1.05
1:w:191:PHE:CE1	1:w:470:HIS:CE1	2.45	1.05
1:w:221:ILE:HG22	1:x:429:ARG:HD3	1.38	1.05
1:z:191:PHE:CE1	1:z:470:HIS:CE1	2.45	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:TYR:OH	1:B:236:GLY:HA3	1.56	1.05
1:D:257:ARG:CD	1:E:35:GLY:O	2.03	1.05
1:D:528:TRP:CB	1:N:246:PRO:HG3	1.87	1.05
1:G:191:PHE:CE1	1:G:470:HIS:CE1	2.45	1.05
1:M:37:SER:CA	1:N:257:ARG:CD	2.32	1.05
1:O:257:ARG:CD	1:3:37:SER:CA	2.33	1.05
1:0:33:GLY:O	1:0:36:HIS:HD2	1.28	1.05
1:0:429:ARG:HD3	1:7:221:ILE:HG22	1.38	1.05
1:2:528:TRP:HB2	1:i:246:PRO:HG3	1.37	1.05
1:5:246:PRO:HG3	1:a:528:TRP:HB2	1.38	1.05
1:5:528:TRP:CB	1:b:246:PRO:HG3	1.87	1.05
1:d:37:SER:CA	1:r:257:ARG:CD	2.32	1.05
1:d:101:TYR:OH	1:d:236:GLY:HA3	1.57	1.05
1:d:429:ARG:HD3	1:e:221:ILE:HG22	1.38	1.05
1:k:429:ARG:HD3	1:l:221:ILE:HG22	1.38	1.05
1:p:35:GLY:O	1:q:257:ARG:CD	2.03	1.05
1:p:37:SER:CA	1:q:257:ARG:CD	2.32	1.05
1:q:221:ILE:HG22	1:s:429:ARG:HD3	1.38	1.05
1:q:528:TRP:CB	1:r:246:PRO:HG3	1.87	1.05
1:H:221:ILE:HG22	1:Y:429:ARG:HD3	1.38	1.04
1:K:101:TYR:OH	1:K:236:GLY:HA3	1.57	1.04
1:O:33:GLY:O	1:O:36:HIS:HD2	1.28	1.04
1:O:246:PRO:HG3	1:h:528:TRP:CB	1.87	1.04
1:Q:101:TYR:OH	1:Q:236:GLY:HA3	1.56	1.04
1:R:191:PHE:CE1	1:R:470:HIS:CE1	2.45	1.04
1:R:528:TRP:CB	1:S:246:PRO:HG3	1.87	1.04
1:T:246:PRO:HG3	1:f:528:TRP:HB2	1.37	1.04
1:U:191:PHE:CE1	1:U:470:HIS:CE1	2.45	1.04
1:W:528:TRP:CB	1:Y:246:PRO:HG3	1.87	1.04
1:Z:429:ARG:HD3	1:x:221:ILE:HG22	1.38	1.04
1:a:37:SER:CA	1:u:257:ARG:CD	2.32	1.04
1:a:257:ARG:CD	1:e:35:GLY:O	2.04	1.04
1:k:246:PRO:HG3	1:m:528:TRP:CB	1.87	1.04
1:w:37:SER:CA	1:7:257:ARG:CD	2.32	1.04
1:y:191:PHE:CE1	1:y:470:HIS:CE1	2.45	1.04
1:y:528:TRP:CB	1:z:246:PRO:HG3	1.87	1.04
1:6:191:PHE:CE1	1:6:470:HIS:CE1	2.45	1.04
1:A:101:TYR:OH	1:A:236:GLY:HA3	1.56	1.04
1:B:246:PRO:HG3	1:L:528:TRP:CB	1.87	1.04
1:D:221:ILE:HG22	1:P:429:ARG:HD3	1.38	1.04
1:H:528:TRP:CB	1:W:246:PRO:HG3	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:528:TRP:CB	1:L:246:PRO:HG3	1.88	1.04
1:N:101:TYR:OH	1:N:236:GLY:HA3	1.57	1.04
1:R:246:PRO:HG3	1:U:528:TRP:CB	1.88	1.04
1:U:101:TYR:OH	1:U:236:GLY:HA3	1.56	1.04
1:V:101:TYR:OH	1:V:236:GLY:HA3	1.56	1.04
1:W:429:ARG:HD3	1:Y:221:ILE:HG22	1.38	1.04
1:Z:221:ILE:HG22	1:w:429:ARG:HD3	1.38	1.04
1:Z:246:PRO:HG3	1:w:528:TRP:CB	1.88	1.04
1:2:191:PHE:CE1	1:2:470:HIS:CE1	2.45	1.04
1:3:191:PHE:CE1	1:3:470:HIS:CE1	2.45	1.04
1:a:98:ASN:CB	1:b:316:ARG:NH2	2.21	1.04
1:f:191:PHE:CE1	1:f:470:HIS:CE1	2.45	1.04
1:f:257:ARG:CD	1:h:37:SER:CA	2.33	1.04
1:j:191:PHE:CE1	1:j:470:HIS:CE1	2.45	1.04
1:k:33:GLY:O	1:k:36:HIS:HD2	1.28	1.04
1:n:101:TYR:OH	1:n:236:GLY:HA3	1.57	1.04
1:o:429:ARG:HD3	1:p:221:ILE:HG22	1.38	1.04
1:q:191:PHE:CE1	1:q:470:HIS:CE1	2.45	1.04
1:t:528:TRP:HB2	1:u:246:PRO:HG3	1.37	1.04
1:w:246:PRO:HG3	1:x:528:TRP:CB	1.87	1.04
1:y:246:PRO:HG3	1:6:528:TRP:CB	1.88	1.04
1:6:101:TYR:OH	1:6:236:GLY:HA3	1.56	1.04
1:D:191:PHE:CE1	1:D:470:HIS:CE1	2.45	1.04
1:E:221:ILE:HG22	1:F:429:ARG:HD3	1.38	1.04
1:R:429:ARG:HD3	1:S:221:ILE:HG22	1.38	1.04
1:V:257:ARG:CD	1:W:37:SER:CA	2.32	1.04
1:Y:37:SER:CA	1:x:257:ARG:CD	2.32	1.04
1:0:101:TYR:OH	1:0:236:GLY:HA3	1.56	1.04
1:t:221:ILE:HG22	1:v:429:ARG:HD3	1.39	1.04
1:y:101:TYR:OH	1:y:236:GLY:HA3	1.57	1.04
1:z:528:TRP:CB	1:6:246:PRO:HG3	1.87	1.04
1:7:101:TYR:OH	1:7:236:GLY:HA3	1.56	1.04
1:B:528:TRP:CB	1:J:246:PRO:HG3	1.87	1.04
1:G:429:ARG:HD3	1:I:221:ILE:HG22	1.39	1.04
1:H:257:ARG:CD	1:Z:37:SER:CA	2.32	1.04
1:M:246:PRO:HG3	1:1:528:TRP:CB	1.87	1.04
1:R:101:TYR:OH	1:R:236:GLY:HA3	1.56	1.04
1:S:528:TRP:CB	1:U:246:PRO:HG3	1.87	1.04
1:5:246:PRO:HG3	1:a:528:TRP:CB	1.87	1.04
1:5:528:TRP:HB2	1:b:246:PRO:HG3	1.34	1.04
1:d:528:TRP:CB	1:e:246:PRO:HG3	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:37:SER:CA	1:s:257:ARG:CD	2.32	1.04
1:o:528:TRP:CB	1:p:246:PRO:HG3	1.87	1.04
1:p:191:PHE:CE1	1:p:470:HIS:CE1	2.45	1.04
1:r:101:TYR:OH	1:r:236:GLY:HA3	1.56	1.04
1:u:101:TYR:OH	1:u:236:GLY:HA3	1.56	1.04
1:u:528:TRP:CB	1:v:246:PRO:HG3	1.87	1.04
1:y:429:ARG:HD3	1:z:221:ILE:HG22	1.38	1.04
1:A:246:PRO:HG3	1:I:528:TRP:HB2	1.37	1.04
1:C:191:PHE:CE1	1:C:470:HIS:CE1	2.45	1.04
1:E:191:PHE:CE1	1:E:470:HIS:CE1	2.45	1.04
1:E:246:PRO:HG3	1:F:528:TRP:CB	1.87	1.04
1:F:257:ARG:CD	1:R:37:SER:CA	2.32	1.04
1:H:37:SER:CA	1:I:257:ARG:CD	2.32	1.04
1:K:528:TRP:CB	1:0:246:PRO:HG3	1.87	1.04
1:L:191:PHE:CE1	1:L:470:HIS:CE1	2.45	1.04
1:O:37:SER:CA	1:P:257:ARG:CD	2.32	1.04
1:X:101:TYR:OH	1:X:236:GLY:HA3	1.57	1.04
1:X:246:PRO:HG3	1:4:528:TRP:CB	1.87	1.04
1:Z:101:TYR:OH	1:Z:236:GLY:HA3	1.56	1.04
1:Z:528:TRP:HB2	1:x:246:PRO:HG3	1.37	1.04
1:1:191:PHE:CE1	1:1:470:HIS:CE1	2.45	1.04
1:b:191:PHE:CE1	1:b:470:HIS:CE1	2.45	1.04
1:c:191:PHE:CE1	1:c:470:HIS:CE1	2.45	1.04
1:e:101:TYR:OH	1:e:236:GLY:HA3	1.56	1.04
1:e:191:PHE:CE1	1:e:470:HIS:CE1	2.45	1.04
1:h:191:PHE:CE1	1:h:470:HIS:CE1	2.45	1.04
1:i:429:ARG:HD3	1:j:221:ILE:HG22	1.39	1.04
1:k:528:TRP:CB	1:l:246:PRO:HG3	1.88	1.04
1:p:257:ARG:CD	1:u:37:SER:CA	2.32	1.04
1:t:257:ARG:CD	1:x:37:SER:CA	2.33	1.04
1:7:191:PHE:CE1	1:7:470:HIS:CE1	2.45	1.04
1:A:221:ILE:HG22	1:I:429:ARG:HD3	1.38	1.03
1:B:257:ARG:CD	1:C:37:SER:CA	2.32	1.03
1:C:101:TYR:OH	1:C:236:GLY:HA3	1.56	1.03
1:C:246:PRO:HG3	1:M:528:TRP:CB	1.88	1.03
1:D:246:PRO:HG3	1:P:528:TRP:CB	1.87	1.03
1:E:528:TRP:CB	1:Q:246:PRO:HG3	1.88	1.03
1:G:528:TRP:CB	1:I:246:PRO:HG3	1.87	1.03
1:H:101:TYR:OH	1:H:236:GLY:HA3	1.56	1.03
1:H:246:PRO:HG3	1:Y:528:TRP:HB2	1.37	1.03
1:K:246:PRO:HG3	1:7:528:TRP:HB2	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:528:TRP:CB	1:g:246:PRO:HG3	1.88	1.03
1:T:246:PRO:HG3	1:f:528:TRP:CB	1.87	1.03
1:V:191:PHE:CE1	1:V:470:HIS:CE1	2.45	1.03
1:X:257:ARG:CD	1:5:35:GLY:O	2.05	1.03
1:Y:101:TYR:OH	1:Y:236:GLY:HA3	1.56	1.03
1:2:246:PRO:HG3	1:j:528:TRP:HB2	1.37	1.03
1:f:101:TYR:OH	1:f:236:GLY:HA3	1.56	1.03
1:m:191:PHE:CE1	1:m:470:HIS:CE1	2.45	1.03
1:n:246:PRO:HG3	1:p:528:TRP:CB	1.88	1.03
1:o:257:ARG:CD	1:y:37:SER:CA	2.32	1.03
1:t:528:TRP:CB	1:u:246:PRO:HG3	1.87	1.03
1:x:191:PHE:CE1	1:x:470:HIS:CE1	2.45	1.03
1:A:191:PHE:CE1	1:A:470:HIS:CE1	2.45	1.03
1:D:429:ARG:HD3	1:N:221:ILE:HG22	1.38	1.03
1:E:101:TYR:OH	1:E:236:GLY:HA3	1.56	1.03
1:F:246:PRO:HG3	1:Q:528:TRP:CB	1.87	1.03
1:H:191:PHE:CE1	1:H:470:HIS:CE1	2.45	1.03
1:J:191:PHE:CE1	1:J:470:HIS:CE1	2.45	1.03
1:N:528:TRP:HB2	1:P:246:PRO:HG3	1.37	1.03
1:P:191:PHE:CE1	1:P:470:HIS:CE1	2.45	1.03
1:S:37:SER:CA	1:3:257:ARG:CD	2.32	1.03
1:T:429:ARG:HD3	1:3:221:ILE:HG22	1.39	1.03
1:V:528:TRP:HB2	1:4:246:PRO:HG3	1.37	1.03
1:0:191:PHE:CE1	1:0:470:HIS:CE1	2.45	1.03
1:2:528:TRP:CB	1:i:246:PRO:HG3	1.87	1.03
1:5:191:PHE:CE1	1:5:470:HIS:CE1	2.45	1.03
1:c:246:PRO:HG3	1:e:528:TRP:CB	1.87	1.03
1:c:528:TRP:CB	1:d:246:PRO:HG3	1.87	1.03
1:j:257:ARG:CD	1:z:37:SER:CA	2.33	1.03
1:o:191:PHE:CE1	1:o:470:HIS:CE1	2.45	1.03
1:q:246:PRO:HG3	1:s:528:TRP:CB	1.87	1.03
1:q:429:ARG:HD3	1:r:221:ILE:HG22	1.38	1.03
1:r:191:PHE:CE1	1:r:470:HIS:CE1	2.45	1.03
1:r:528:TRP:HB2	1:s:246:PRO:HG3	1.37	1.03
1:x:101:TYR:OH	1:x:236:GLY:HA3	1.57	1.03
1:C:429:ARG:HD3	1:1:221:ILE:HG22	1.38	1.03
1:C:528:TRP:CB	1:1:246:PRO:HG3	1.87	1.03
1:F:191:PHE:CE1	1:F:470:HIS:CE1	2.45	1.03
1:F:246:PRO:HG3	1:Q:528:TRP:HB2	1.37	1.03
1:H:246:PRO:HG3	1:Y:528:TRP:CB	1.87	1.03
1:I:191:PHE:CE1	1:I:470:HIS:CE1	2.45	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:191:PHE:CE1	1:N:470:HIS:CE1	2.45	1.03
1:T:528:TRP:CB	1:3:246:PRO:HG3	1.87	1.03
1:X:191:PHE:CE1	1:X:470:HIS:CE1	2.45	1.03
1:2:101:TYR:OH	1:2:236:GLY:HA3	1.56	1.03
1:3:528:TRP:HB2	1:f:246:PRO:HG3	1.37	1.03
1:a:257:ARG:CD	1:e:37:SER:CA	2.32	1.03
1:c:221:ILE:HG22	1:e:429:ARG:HD3	1.38	1.03
1:i:528:TRP:CB	1:j:246:PRO:HG3	1.87	1.03
1:l:528:TRP:CB	1:m:246:PRO:HG3	1.87	1.03
1:n:528:TRP:HB2	1:o:246:PRO:HG3	1.37	1.03
1:n:528:TRP:CB	1:o:246:PRO:HG3	1.87	1.03
1:s:191:PHE:CE1	1:s:470:HIS:CE1	2.45	1.03
1:t:191:PHE:CE1	1:t:470:HIS:CE1	2.45	1.03
1:t:246:PRO:HG3	1:v:528:TRP:CB	1.87	1.03
1:u:191:PHE:CE1	1:u:470:HIS:CE1	2.45	1.03
1:B:246:PRO:HG3	1:L:528:TRP:HB2	1.37	1.03
1:J:528:TRP:HB2	1:L:246:PRO:HG3	1.37	1.03
1:K:191:PHE:CE1	1:K:470:HIS:CE1	2.45	1.03
1:S:101:TYR:OH	1:S:236:GLY:HA3	1.56	1.03
1:Z:528:TRP:CB	1:x:246:PRO:HG3	1.87	1.03
1:4:191:PHE:CE1	1:4:470:HIS:CE1	2.45	1.03
1:g:429:ARG:HD3	1:h:221:ILE:HG22	1.38	1.03
1:g:528:TRP:CB	1:h:246:PRO:HG3	1.87	1.03
1:p:101:TYR:OH	1:p:236:GLY:HA3	1.56	1.03
1:s:101:TYR:OH	1:s:236:GLY:HA3	1.56	1.03
1:y:246:PRO:HG3	1:6:528:TRP:HB2	1.37	1.03
1:N:316:ARG:HH21	1:P:98:ASN:HB3	1.20	1.03
1:P:101:TYR:OH	1:P:236:GLY:HA3	1.56	1.03
1:Z:257:ARG:CD	1:0:37:SER:CA	2.33	1.03
1:5:33:GLY:O	1:5:36:HIS:HD2	1.28	1.03
1:b:101:TYR:OH	1:b:236:GLY:HA3	1.56	1.03
1:l:101:TYR:OH	1:l:236:GLY:HA3	1.56	1.03
1:n:191:PHE:CE1	1:n:470:HIS:CE1	2.45	1.03
1:z:101:TYR:OH	1:z:236:GLY:HA3	1.56	1.03
1:A:246:PRO:HG3	1:I:528:TRP:CB	1.88	1.02
1:K:429:ARG:HD3	1:0:221:ILE:HG22	1.38	1.02
1:L:101:TYR:OH	1:L:236:GLY:HA3	1.56	1.02
1:M:221:ILE:HG22	1:1:429:ARG:HD3	1.38	1.02
1:Q:191:PHE:CE1	1:Q:470:HIS:CE1	2.45	1.02
1:X:37:SER:CA	1:Y:257:ARG:CD	2.33	1.02
1:X:221:ILE:HG22	1:4:429:ARG:HD3	1.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:429:ARG:HD3	1:f:221:ILE:HG22	1.38	1.02
1:3:528:TRP:CB	1:f:246:PRO:HG3	1.87	1.02
1:c:429:ARG:HD3	1:d:221:ILE:HG22	1.38	1.02
1:g:191:PHE:CE1	1:g:470:HIS:CE1	2.45	1.02
1:l:191:PHE:CE1	1:l:470:HIS:CE1	2.45	1.02
1:l:429:ARG:HD3	1:m:221:ILE:HG22	1.38	1.02
1:t:429:ARG:HD3	1:u:221:ILE:HG22	1.39	1.02
1:y:257:ARG:CD	1:7:37:SER:CA	2.33	1.02
1:A:33:GLY:O	1:A:36:HIS:HD2	1.28	1.02
1:R:257:ARG:CD	1:V:37:SER:CA	2.33	1.02
1:2:221:ILE:HG22	1:j:429:ARG:HD3	1.38	1.02
1:2:246:PRO:HG3	1:j:528:TRP:CB	1.87	1.02
1:g:101:TYR:OH	1:g:236:GLY:HA3	1.57	1.02
1:r:316:ARG:HH21	1:s:98:ASN:HB3	1.20	1.02
1:N:429:ARG:HD3	1:P:221:ILE:HG22	1.38	1.02
1:O:101:TYR:OH	1:O:236:GLY:HA3	1.56	1.02
1:O:191:PHE:CE1	1:O:470:HIS:CE1	2.45	1.02
1:R:246:PRO:HG3	1:U:528:TRP:HB2	1.37	1.02
1:5:101:TYR:OH	1:5:236:GLY:HA3	1.57	1.02
1:k:191:PHE:CE1	1:k:470:HIS:CE1	2.45	1.02
1:u:429:ARG:HD3	1:v:221:ILE:HG22	1.39	1.02
1:D:101:TYR:OH	1:D:236:GLY:HA3	1.56	1.02
1:J:33:GLY:O	1:J:36:HIS:HD2	1.28	1.02
1:K:221:ILE:HG22	1:7:429:ARG:HD3	1.38	1.02
1:R:528:TRP:HB2	1:S:246:PRO:HG3	1.37	1.02
1:S:528:TRP:HB2	1:U:246:PRO:HG3	1.37	1.02
1:k:101:TYR:OH	1:k:236:GLY:HA3	1.56	1.02
1:u:33:GLY:O	1:u:36:HIS:HD2	1.28	1.02
1:y:528:TRP:HB2	1:z:246:PRO:HG3	1.37	1.02
1:A:528:TRP:HB2	1:G:246:PRO:CG	1.89	1.02
1:J:101:TYR:OH	1:J:236:GLY:HA3	1.56	1.02
1:K:257:ARG:CD	1:6:37:SER:CA	2.32	1.02
1:O:528:TRP:HB2	1:g:246:PRO:HG3	1.37	1.02
1:V:429:ARG:HD3	1:4:221:ILE:HG22	1.38	1.02
1:3:316:ARG:HH21	1:f:98:ASN:HB3	1.20	1.02
1:c:101:TYR:OH	1:c:236:GLY:HA3	1.56	1.02
1:q:101:TYR:OH	1:q:236:GLY:HA3	1.56	1.02
1:r:429:ARG:HD3	1:s:221:ILE:HG22	1.38	1.02
1:t:98:ASN:HB3	1:v:316:ARG:HH21	1.20	1.02
1:z:528:TRP:HB2	1:6:246:PRO:HG3	1.37	1.02
1:G:316:ARG:HH21	1:I:98:ASN:HB3	1.20	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:37:SER:CA	1:S:257:ARG:CD	2.32	1.01
1:U:37:SER:CA	1:4:257:ARG:CD	2.32	1.01
1:1:101:TYR:OH	1:1:236:GLY:HA3	1.56	1.01
1:a:33:GLY:O	1:a:36:HIS:HD2	1.28	1.01
1:n:37:SER:CA	1:z:257:ARG:CD	2.32	1.01
1:A:429:ARG:HD3	1:G:221:ILE:HG22	1.40	1.01
1:B:33:GLY:O	1:B:36:HIS:HD2	1.28	1.01
1:R:221:ILE:HG22	1:U:429:ARG:HD3	1.38	1.01
1:k:528:TRP:HB2	1:l:246:PRO:HG3	1.37	1.01
1:E:528:TRP:HB2	1:Q:246:PRO:HG3	1.37	1.01
1:2:98:ASN:HB3	1:j:316:ARG:HH21	1.20	1.01
1:n:221:ILE:HG22	1:p:429:ARG:HD3	1.38	1.01
1:C:257:ARG:CD	1:D:37:SER:CA	2.33	1.01
1:C:316:ARG:HH21	1:1:98:ASN:HB3	1.20	1.01
1:E:429:ARG:HD3	1:Q:221:ILE:HG22	1.38	1.01
1:K:37:SER:CA	1:L:257:ARG:CD	2.33	1.01
1:T:257:ARG:CD	1:c:37:SER:CA	2.32	1.01
1:X:431:SER:OG	1:X:433:HIS:NE2	1.94	1.01
1:0:431:SER:OG	1:0:433:HIS:NE2	1.94	1.01
1:3:101:TYR:OH	1:3:236:GLY:HA3	1.56	1.01
1:3:431:SER:OG	1:3:433:HIS:NE2	1.94	1.01
1:e:257:ARG:CD	1:q:37:SER:CA	2.33	1.01
1:i:37:SER:CA	1:6:257:ARG:CD	2.32	1.01
1:j:101:TYR:OH	1:j:236:GLY:HA3	1.56	1.01
1:n:246:PRO:HG3	1:p:528:TRP:HB2	1.37	1.01
1:y:221:ILE:HG22	1:6:429:ARG:HD3	1.38	1.01
1:z:431:SER:OG	1:z:433:HIS:NE2	1.94	1.01
1:C:98:ASN:HB3	1:M:316:ARG:HH21	1.20	1.00
1:E:431:SER:OG	1:E:433:HIS:NE2	1.94	1.00
1:H:528:TRP:HB2	1:W:246:PRO:HG3	1.37	1.00
1:I:33:GLY:O	1:I:36:HIS:HD2	1.28	1.00
1:I:431:SER:OG	1:I:433:HIS:NE2	1.94	1.00
1:M:431:SER:OG	1:M:433:HIS:NE2	1.94	1.00
1:O:431:SER:OG	1:O:433:HIS:NE2	1.94	1.00
1:S:431:SER:OG	1:S:433:HIS:NE2	1.94	1.00
1:T:37:SER:CA	1:U:257:ARG:CD	2.32	1.00
1:W:528:TRP:HB2	1:Y:246:PRO:HG3	1.37	1.00
1:a:431:SER:OG	1:a:433:HIS:NE2	1.94	1.00
1:c:98:ASN:HB3	1:e:316:ARG:HH21	1.20	1.00
1:d:316:ARG:HH21	1:e:98:ASN:HB3	1.21	1.00
1:j:431:SER:OG	1:j:433:HIS:NE2	1.94	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:431:SER:OG	1:k:433:HIS:NE2	1.94	1.00
1:n:431:SER:OG	1:n:433:HIS:NE2	1.94	1.00
1:p:431:SER:OG	1:p:433:HIS:NE2	1.94	1.00
1:t:431:SER:OG	1:t:433:HIS:NE2	1.94	1.00
1:w:246:PRO:HG3	1:x:528:TRP:HB2	1.37	1.00
1:y:431:SER:OG	1:y:433:HIS:NE2	1.94	1.00
1:A:37:SER:CA	1:E:257:ARG:CD	2.36	1.00
1:B:431:SER:OG	1:B:433:HIS:NE2	1.94	1.00
1:D:431:SER:OG	1:D:433:HIS:NE2	1.94	1.00
1:K:431:SER:OG	1:K:433:HIS:NE2	1.94	1.00
1:L:33:GLY:O	1:L:36:HIS:HD2	1.28	1.00
1:N:431:SER:OG	1:N:433:HIS:NE2	1.94	1.00
1:P:431:SER:OG	1:P:433:HIS:NE2	1.94	1.00
1:Q:431:SER:OG	1:Q:433:HIS:NE2	1.94	1.00
1:R:431:SER:OG	1:R:433:HIS:NE2	1.94	1.00
1:V:431:SER:OG	1:V:433:HIS:NE2	1.94	1.00
1:W:431:SER:OG	1:W:433:HIS:NE2	1.94	1.00
1:5:439:TYR:CE1	1:b:469:ALA:HB2	1.96	1.00
1:a:246:PRO:CG	1:b:528:TRP:HB2	1.91	1.00
1:d:431:SER:OG	1:d:433:HIS:NE2	1.94	1.00
1:q:431:SER:OG	1:q:433:HIS:NE2	1.94	1.00
1:r:431:SER:OG	1:r:433:HIS:NE2	1.94	1.00
1:v:33:GLY:O	1:v:36:HIS:HD2	1.28	1.00
1:v:431:SER:OG	1:v:433:HIS:NE2	1.94	1.00
1:G:33:GLY:O	1:G:36:HIS:HD2	1.28	1.00
1:G:431:SER:OG	1:G:433:HIS:NE2	1.94	1.00
1:J:429:ARG:HD3	1:L:221:ILE:HG22	1.38	1.00
1:J:431:SER:OG	1:J:433:HIS:NE2	1.94	1.00
1:L:431:SER:OG	1:L:433:HIS:NE2	1.94	1.00
1:Y:431:SER:OG	1:Y:433:HIS:NE2	1.94	1.00
1:Z:431:SER:OG	1:Z:433:HIS:NE2	1.94	1.00
1:1:37:SER:CA	1:i:257:ARG:CD	2.32	1.00
1:4:431:SER:OG	1:4:433:HIS:NE2	1.94	1.00
1:5:431:SER:OG	1:5:433:HIS:NE2	1.94	1.00
1:b:431:SER:OG	1:b:433:HIS:NE2	1.94	1.00
1:s:431:SER:OG	1:s:433:HIS:NE2	1.94	1.00
1:t:33:GLY:O	1:t:36:HIS:HD2	1.28	1.00
1:w:431:SER:OG	1:w:433:HIS:NE2	1.94	1.00
1:x:431:SER:OG	1:x:433:HIS:NE2	1.94	1.00
1:7:431:SER:OG	1:7:433:HIS:NE2	1.94	1.00
1:D:528:TRP:HB2	1:N:246:PRO:CG	1.92	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:431:SER:OG	1:H:433:HIS:NE2	1.94	1.00
1:Z:246:PRO:HG3	1:w:528:TRP:HB2	1.37	1.00
1:q:528:TRP:HB2	1:r:246:PRO:CG	1.92	1.00
1:C:431:SER:OG	1:C:433:HIS:NE2	1.94	1.00
1:K:246:PRO:CG	1:7:528:TRP:HB2	1.92	1.00
1:Z:528:TRP:HB2	1:x:246:PRO:CG	1.92	1.00
1:c:431:SER:OG	1:c:433:HIS:NE2	1.94	1.00
1:e:431:SER:OG	1:e:433:HIS:NE2	1.94	1.00
1:G:528:TRP:HB2	1:I:246:PRO:CG	1.92	1.00
1:H:246:PRO:CG	1:Y:528:TRP:HB2	1.92	1.00
1:R:33:GLY:O	1:R:36:HIS:HD2	1.28	1.00
1:V:528:TRP:HB2	1:4:246:PRO:CG	1.92	1.00
1:Z:98:ASN:HB3	1:w:316:ARG:HH21	1.20	1.00
1:1:431:SER:OG	1:1:433:HIS:NE2	1.94	1.00
1:b:33:GLY:O	1:b:36:HIS:HD2	1.28	1.00
1:l:431:SER:OG	1:l:433:HIS:NE2	1.94	1.00
1:u:431:SER:OG	1:u:433:HIS:NE2	1.94	1.00
1:A:431:SER:OG	1:A:433:HIS:NE2	1.94	1.00
1:F:431:SER:OG	1:F:433:HIS:NE2	1.94	1.00
1:2:316:ARG:HH21	1:i:98:ASN:HB3	1.20	1.00
1:g:431:SER:OG	1:g:433:HIS:NE2	1.94	1.00
1:F:37:SER:CA	1:G:257:ARG:CD	2.32	0.99
1:N:37:SER:CA	1:g:257:ARG:CD	2.33	0.99
1:U:431:SER:OG	1:U:433:HIS:NE2	1.94	0.99
1:W:528:TRP:HB2	1:Y:246:PRO:CG	1.92	0.99
1:b:37:SER:N	1:c:257:ARG:CD	2.25	0.99
1:l:257:ARG:CD	1:r:37:SER:CA	2.33	0.99
1:o:37:SER:CA	1:v:257:ARG:CD	2.32	0.99
1:t:246:PRO:CG	1:v:528:TRP:HB2	1.92	0.99
1:6:431:SER:OG	1:6:433:HIS:NE2	1.94	0.99
1:Z:246:PRO:CG	1:w:528:TRP:HB2	1.93	0.99
1:m:431:SER:OG	1:m:433:HIS:NE2	1.94	0.99
1:o:431:SER:OG	1:o:433:HIS:NE2	1.94	0.99
1:o:528:TRP:HB2	1:p:246:PRO:CG	1.92	0.99
1:y:33:GLY:O	1:y:36:HIS:HD2	1.28	0.99
1:E:246:PRO:CG	1:F:528:TRP:HB2	1.92	0.99
1:M:246:PRO:CG	1:1:528:TRP:HB2	1.92	0.99
1:R:528:TRP:HB2	1:S:246:PRO:CG	1.92	0.99
1:T:246:PRO:CG	1:f:528:TRP:HB2	1.92	0.99
1:2:528:TRP:HB2	1:i:246:PRO:CG	1.92	0.99
1:h:431:SER:OG	1:h:433:HIS:NE2	1.94	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:431:SER:OG	1:i:433:HIS:NE2	1.94	0.99
1:k:528:TRP:HB2	1:l:246:PRO:CG	1.93	0.99
1:y:528:TRP:HB2	1:z:246:PRO:CG	1.92	0.99
1:H:528:TRP:HB2	1:W:246:PRO:CG	1.92	0.99
1:5:528:TRP:HB2	1:b:246:PRO:CG	1.91	0.99
1:w:246:PRO:CG	1:x:528:TRP:HB2	1.92	0.99
1:G:37:SER:CA	1:W:257:ARG:CD	2.32	0.99
1:T:98:ASN:HB3	1:f:316:ARG:HH21	1.21	0.99
1:T:431:SER:OG	1:T:433:HIS:NE2	1.94	0.99
1:W:316:ARG:HH21	1:Y:98:ASN:HB3	1.21	0.99
1:a:221:ILE:HG22	1:b:429:ARG:HD3	1.44	0.99
1:O:528:TRP:HB2	1:g:246:PRO:CG	1.93	0.99
1:c:528:TRP:HB2	1:d:246:PRO:CG	1.92	0.99
1:d:528:TRP:HB2	1:e:246:PRO:CG	1.92	0.99
1:B:528:TRP:HB2	1:J:246:PRO:CG	1.92	0.99
1:u:528:TRP:HB2	1:v:246:PRO:CG	1.92	0.99
1:v:37:SER:CA	1:w:257:ARG:CD	2.33	0.99
1:A:257:ARG:CD	1:B:37:SER:N	2.26	0.99
1:C:246:PRO:CG	1:M:528:TRP:HB2	1.92	0.99
1:4:37:SER:CA	1:b:257:ARG:CD	2.36	0.99
1:t:528:TRP:HB2	1:u:246:PRO:CG	1.92	0.99
1:0:528:TRP:HB2	1:7:246:PRO:CG	1.92	0.98
1:B:246:PRO:CG	1:L:528:TRP:HB2	1.92	0.98
1:C:528:TRP:HB2	1:1:246:PRO:CG	1.92	0.98
1:D:246:PRO:CG	1:P:528:TRP:HB2	1.92	0.98
1:V:246:PRO:CG	1:X:528:TRP:HB2	1.92	0.98
1:2:431:SER:OG	1:2:433:HIS:NE2	1.94	0.98
1:f:431:SER:OG	1:f:433:HIS:NE2	1.94	0.98
1:k:246:PRO:CG	1:m:528:TRP:HB2	1.92	0.98
1:n:528:TRP:HB2	1:o:246:PRO:CG	1.92	0.98
1:S:528:TRP:HB2	1:U:246:PRO:CG	1.92	0.98
1:2:246:PRO:CG	1:j:528:TRP:HB2	1.92	0.98
1:5:246:PRO:CG	1:a:528:TRP:HB2	1.93	0.98
1:D:98:ASN:HB3	1:P:316:ARG:HH21	1.20	0.98
1:F:246:PRO:CG	1:Q:528:TRP:HB2	1.92	0.98
1:T:528:TRP:HB2	1:3:246:PRO:CG	1.92	0.98
1:q:246:PRO:CG	1:s:528:TRP:HB2	1.92	0.98
1:A:469:ALA:HB2	1:I:439:TYR:CE1	1.99	0.98
1:O:246:PRO:CG	1:h:528:TRP:HB2	1.92	0.98
1:R:246:PRO:CG	1:U:528:TRP:HB2	1.93	0.98
1:c:246:PRO:CG	1:e:528:TRP:HB2	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:246:PRO:CG	1:6:528:TRP:HB2	1.93	0.98
1:z:528:TRP:HB2	1:6:246:PRO:CG	1.92	0.98
1:g:528:TRP:HB2	1:h:246:PRO:CG	1.92	0.98
1:i:528:TRP:HB2	1:j:246:PRO:CG	1.92	0.98
1:N:439:TYR:CE1	1:P:469:ALA:HB2	1.99	0.98
1:X:246:PRO:CG	1:4:528:TRP:HB2	1.92	0.98
1:3:528:TRP:HB2	1:f:246:PRO:CG	1.92	0.98
1:A:246:PRO:CG	1:I:528:TRP:HB2	1.93	0.98
1:K:528:TRP:HB2	1:0:246:PRO:CG	1.92	0.98
1:T:33:GLY:O	1:T:36:HIS:HD2	1.28	0.98
1:l:528:TRP:HB2	1:m:246:PRO:CG	1.92	0.98
1:r:439:TYR:CE1	1:s:469:ALA:HB2	1.99	0.98
1:t:439:TYR:CE1	1:u:469:ALA:HB2	1.99	0.97
1:k:439:TYR:CE1	1:l:469:ALA:HB2	2.00	0.97
1:q:98:ASN:HB3	1:s:316:ARG:HH21	1.20	0.97
1:K:429:ARG:HD3	1:0:221:ILE:CG2	1.95	0.97
1:N:528:TRP:HB2	1:P:246:PRO:CG	1.92	0.97
1:X:221:ILE:CG2	1:4:429:ARG:HD3	1.95	0.97
1:Z:316:ARG:HH21	1:x:98:ASN:HB3	1.20	0.97
1:i:429:ARG:HD3	1:j:221:ILE:CG2	1.95	0.97
1:n:246:PRO:CG	1:p:528:TRP:HB2	1.93	0.97
1:n:439:TYR:CE1	1:o:469:ALA:HB2	1.99	0.97
1:A:439:TYR:CE1	1:G:469:ALA:HB2	1.99	0.97
1:E:221:ILE:CG2	1:F:429:ARG:HD3	1.94	0.97
1:H:429:ARG:HD3	1:W:221:ILE:CG2	1.95	0.97
1:H:469:ALA:HB2	1:Y:439:TYR:CE1	1.99	0.97
1:K:316:ARG:HH21	1:0:98:ASN:HB3	1.20	0.97
1:O:439:TYR:CE1	1:g:469:ALA:HB2	2.00	0.97
1:R:221:ILE:CG2	1:U:429:ARG:HD3	1.95	0.97
1:T:429:ARG:HD3	1:3:221:ILE:CG2	1.95	0.97
1:0:439:TYR:CE1	1:7:469:ALA:HB2	1.99	0.97
1:g:429:ARG:HD3	1:h:221:ILE:CG2	1.95	0.97
1:r:528:TRP:HB2	1:s:246:PRO:CG	1.92	0.97
1:y:221:ILE:CG2	1:6:429:ARG:HD3	1.95	0.97
1:E:439:TYR:CE1	1:Q:469:ALA:HB2	2.00	0.97
1:E:528:TRP:HB2	1:Q:246:PRO:CG	1.93	0.97
1:F:469:ALA:HB2	1:Q:439:TYR:CE1	2.00	0.97
1:Z:439:TYR:CE1	1:x:469:ALA:HB2	1.99	0.97
1:i:33:GLY:O	1:i:36:HIS:HD2	1.28	0.97
1:n:469:ALA:HB2	1:p:439:TYR:CE1	2.00	0.97
1:o:429:ARG:HD3	1:p:221:ILE:CG2	1.95	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:221:ILE:CG2	1:x:429:ARG:HD3	1.95	0.97
1:E:429:ARG:HD3	1:Q:221:ILE:CG2	1.95	0.97
1:E:469:ALA:HB2	1:F:439:TYR:CE1	2.00	0.97
1:M:469:ALA:HB2	1:1:439:TYR:CE1	2.00	0.97
1:O:221:ILE:CG2	1:h:429:ARG:HD3	1.95	0.97
1:V:469:ALA:HB2	1:X:439:TYR:CE1	1.99	0.97
1:J:37:SER:N	1:0:257:ARG:CD	2.28	0.97
1:J:528:TRP:HB2	1:L:246:PRO:CG	1.93	0.97
1:T:221:ILE:CG2	1:f:429:ARG:HD3	1.95	0.97
1:V:439:TYR:CE1	1:4:469:ALA:HB2	1.99	0.97
1:W:439:TYR:CE1	1:Y:469:ALA:HB2	1.99	0.97
1:5:221:ILE:CG2	1:a:429:ARG:HD3	1.93	0.97
1:c:439:TYR:CE1	1:d:469:ALA:HB2	2.00	0.97
1:h:257:ARG:CD	1:l:37:SER:N	2.28	0.97
1:k:221:ILE:CG2	1:m:429:ARG:HD3	1.95	0.97
1:l:429:ARG:HD3	1:m:221:ILE:CG2	1.95	0.97
1:q:221:ILE:CG2	1:s:429:ARG:HD3	1.95	0.97
1:w:37:SER:N	1:7:257:ARG:CD	2.28	0.97
1:B:221:ILE:CG2	1:L:429:ARG:HD3	1.95	0.97
1:C:469:ALA:HB2	1:M:439:TYR:CE1	2.00	0.97
1:D:221:ILE:CG2	1:P:429:ARG:HD3	1.95	0.97
1:D:439:TYR:CE1	1:N:469:ALA:HB2	1.99	0.97
1:K:469:ALA:HB2	1:7:439:TYR:CE1	1.99	0.97
1:R:316:ARG:HH21	1:S:98:ASN:HB3	1.20	0.97
1:V:257:ARG:CD	1:W:37:SER:N	2.28	0.97
1:X:98:ASN:HB3	1:4:316:ARG:HH21	1.20	0.97
1:c:221:ILE:CG2	1:e:429:ARG:HD3	1.95	0.97
1:n:221:ILE:CG2	1:p:429:ARG:HD3	1.95	0.97
1:u:439:TYR:CE1	1:v:469:ALA:HB2	1.99	0.97
1:y:429:ARG:HD3	1:z:221:ILE:CG2	1.95	0.97
1:H:221:ILE:CG2	1:Y:429:ARG:HD3	1.95	0.97
1:J:439:TYR:CE1	1:L:469:ALA:HB2	1.99	0.97
1:R:429:ARG:HD3	1:S:221:ILE:CG2	1.95	0.97
1:R:439:TYR:CE1	1:S:469:ALA:HB2	1.99	0.97
1:Z:429:ARG:HD3	1:x:221:ILE:CG2	1.95	0.97
1:Z:469:ALA:HB2	1:w:439:TYR:CE1	2.00	0.97
1:2:429:ARG:HD3	1:i:221:ILE:CG2	1.95	0.97
1:5:316:ARG:HH21	1:b:98:ASN:HB3	1.27	0.97
1:b:37:SER:CB	1:c:257:ARG:HG2	1.94	0.97
1:c:429:ARG:HD3	1:d:221:ILE:CG2	1.94	0.97
1:d:439:TYR:CE1	1:e:469:ALA:HB2	2.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:439:TYR:CE1	1:p:469:ALA:HB2	2.00	0.97
1:q:469:ALA:HB2	1:s:439:TYR:CE1	1.99	0.97
1:y:439:TYR:CE1	1:z:469:ALA:HB2	2.00	0.97
1:C:429:ARG:HD3	1:1:221:ILE:CG2	1.95	0.96
1:D:469:ALA:HB2	1:P:439:TYR:CE1	1.99	0.96
1:H:98:ASN:HB3	1:Y:316:ARG:HH21	1.20	0.96
1:V:221:ILE:CG2	1:X:429:ARG:HD3	1.95	0.96
1:0:429:ARG:HD3	1:7:221:ILE:CG2	1.95	0.96
1:q:439:TYR:CE1	1:r:469:ALA:HB2	1.99	0.96
1:B:257:ARG:CD	1:C:37:SER:N	2.29	0.96
1:B:469:ALA:HB2	1:L:439:TYR:CE1	2.00	0.96
1:D:257:ARG:CD	1:E:37:SER:N	2.28	0.96
1:F:37:SER:N	1:G:257:ARG:CD	2.29	0.96
1:M:37:SER:N	1:N:257:ARG:CD	2.28	0.96
1:M:221:ILE:CG2	1:1:429:ARG:HD3	1.94	0.96
1:Q:37:SER:N	1:S:257:ARG:CD	2.28	0.96
1:T:257:ARG:CD	1:c:37:SER:N	2.28	0.96
1:X:257:ARG:CD	1:5:37:SER:N	2.28	0.96
1:2:221:ILE:CG2	1:j:429:ARG:HD3	1.95	0.96
1:3:429:ARG:HD3	1:f:221:ILE:CG2	1.95	0.96
1:d:257:ARG:CD	1:f:37:SER:N	2.28	0.96
1:p:37:SER:N	1:q:257:ARG:CD	2.28	0.96
1:r:429:ARG:HD3	1:s:221:ILE:CG2	1.95	0.96
1:F:257:ARG:CD	1:R:37:SER:N	2.28	0.96
1:G:439:TYR:CE1	1:I:469:ALA:HB2	1.99	0.96
1:I:37:SER:N	1:J:257:ARG:CD	2.29	0.96
1:N:429:ARG:HD3	1:P:221:ILE:CG2	1.95	0.96
1:O:469:ALA:HB2	1:h:439:TYR:CE1	2.00	0.96
1:U:37:SER:N	1:4:257:ARG:CD	2.28	0.96
1:g:37:SER:N	1:m:257:ARG:CD	2.29	0.96
1:k:469:ALA:HB2	1:m:439:TYR:CE1	2.00	0.96
1:o:37:SER:N	1:v:257:ARG:CD	2.29	0.96
1:o:257:ARG:CD	1:y:37:SER:N	2.28	0.96
1:G:96:THR:OG1	1:G:342:TYR:OH	1.83	0.96
1:G:429:ARG:HD3	1:I:221:ILE:CG2	1.95	0.96
1:K:257:ARG:CD	1:6:37:SER:N	2.28	0.96
1:M:257:ARG:CD	1:2:37:SER:N	2.29	0.96
1:d:37:SER:N	1:r:257:ARG:CD	2.28	0.96
1:j:37:SER:N	1:k:257:ARG:CD	2.29	0.96
1:n:37:SER:N	1:z:257:ARG:CD	2.28	0.96
1:t:221:ILE:CG2	1:v:429:ARG:HD3	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:469:ALA:HB2	1:6:439:TYR:CE1	1.99	0.96
1:B:439:TYR:CE1	1:J:469:ALA:HB2	2.00	0.96
1:J:429:ARG:HD3	1:L:221:ILE:CG2	1.95	0.96
1:5:469:ALA:HB2	1:a:439:TYR:CE1	2.00	0.96
1:a:37:SER:N	1:u:257:ARG:CD	2.28	0.96
1:a:469:ALA:HB2	1:b:439:TYR:CE1	2.00	0.96
1:k:37:SER:N	1:s:257:ARG:CD	2.28	0.96
1:l:439:TYR:CE1	1:m:469:ALA:HB2	2.00	0.96
1:z:439:TYR:CE1	1:6:469:ALA:HB2	2.00	0.96
1:B:429:ARG:HD3	1:J:221:ILE:CG2	1.94	0.96
1:R:469:ALA:HB2	1:U:439:TYR:CE1	1.99	0.96
1:2:439:TYR:CE1	1:i:469:ALA:HB2	1.99	0.96
1:a:257:ARG:CD	1:e:37:SER:N	2.29	0.96
1:t:469:ALA:HB2	1:v:439:TYR:CE1	1.99	0.96
1:H:37:SER:N	1:I:257:ARG:CD	2.29	0.96
1:L:37:SER:N	1:1:257:ARG:CD	2.28	0.96
1:O:37:SER:N	1:P:257:ARG:CD	2.28	0.96
1:O:257:ARG:CD	1:3:37:SER:N	2.29	0.96
1:S:439:TYR:CE1	1:U:469:ALA:HB2	2.00	0.96
1:a:98:ASN:HB3	1:b:316:ARG:HH22	1.14	0.96
1:g:439:TYR:CE1	1:h:469:ALA:HB2	2.00	0.96
1:t:257:ARG:CD	1:x:37:SER:N	2.29	0.96
1:C:221:ILE:CG2	1:M:429:ARG:HD3	1.95	0.96
1:F:221:ILE:CG2	1:Q:429:ARG:HD3	1.95	0.96
1:T:37:SER:N	1:U:257:ARG:CD	2.29	0.96
1:T:439:TYR:CE1	1:3:469:ALA:HB2	1.99	0.96
1:T:469:ALA:HB2	1:f:439:TYR:CE1	1.99	0.96
1:1:37:SER:N	1:i:257:ARG:CD	2.29	0.96
1:5:257:ARG:CD	1:t:37:SER:N	2.29	0.96
1:b:37:SER:N	1:c:257:ARG:CG	2.29	0.96
1:d:429:ARG:HD3	1:e:221:ILE:CG2	1.95	0.96
1:q:429:ARG:HD3	1:r:221:ILE:CG2	1.95	0.96
1:y:257:ARG:CD	1:7:37:SER:N	2.29	0.96
1:R:257:ARG:CD	1:V:37:SER:N	2.29	0.96
1:V:429:ARG:HD3	1:4:221:ILE:CG2	1.95	0.96
1:W:429:ARG:HD3	1:Y:221:ILE:CG2	1.95	0.96
1:Z:257:ARG:CD	1:0:37:SER:N	2.29	0.96
1:2:257:ARG:CD	1:m:37:SER:N	2.29	0.96
1:c:469:ALA:HB2	1:e:439:TYR:CE1	1.99	0.96
1:i:37:SER:N	1:6:257:ARG:CD	2.29	0.96
1:x:96:THR:OG1	1:x:342:TYR:OH	1.83	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:316:ARG:HH21	1:z:98:ASN:HB3	1.20	0.96
1:C:439:TYR:CE1	1:1:469:ALA:HB2	2.00	0.96
1:H:439:TYR:CE1	1:W:469:ALA:HB2	2.00	0.96
1:K:221:ILE:CG2	1:7:429:ARG:HD3	1.95	0.96
1:Y:37:SER:N	1:x:257:ARG:CD	2.28	0.96
1:Z:221:ILE:CG2	1:w:429:ARG:HD3	1.95	0.96
1:5:429:ARG:HD3	1:b:221:ILE:HG22	1.47	0.96
1:i:439:TYR:CE1	1:j:469:ALA:HB2	1.99	0.96
1:n:429:ARG:HD3	1:o:221:ILE:CG2	1.95	0.96
1:w:469:ALA:HB2	1:x:439:TYR:CE1	2.00	0.96
1:D:429:ARG:HD3	1:N:221:ILE:CG2	1.95	0.95
1:H:257:ARG:CD	1:Z:37:SER:N	2.29	0.95
1:X:37:SER:N	1:Y:257:ARG:CD	2.29	0.95
1:f:257:ARG:CD	1:h:37:SER:N	2.29	0.95
1:t:429:ARG:HD3	1:u:221:ILE:CG2	1.95	0.95
1:3:439:TYR:CE1	1:f:469:ALA:HB2	1.99	0.95
1:A:221:ILE:CG2	1:I:429:ARG:HD3	1.95	0.95
1:E:33:GLY:O	1:E:36:HIS:HD2	1.28	0.95
1:U:247:LEU:O	1:U:248:GLU:HB2	1.66	0.95
1:2:469:ALA:HB2	1:j:439:TYR:CE1	1.99	0.95
1:4:37:SER:N	1:b:257:ARG:CD	2.29	0.95
1:6:247:LEU:O	1:6:248:GLU:HB2	1.66	0.95
1:K:439:TYR:CE1	1:0:469:ALA:HB2	1.99	0.95
1:O:429:ARG:HD3	1:g:221:ILE:CG2	1.95	0.95
1:X:469:ALA:HB2	1:4:439:TYR:CE1	1.99	0.95
1:a:247:LEU:O	1:a:248:GLU:HB2	1.67	0.95
1:g:247:LEU:O	1:g:248:GLU:HB2	1.67	0.95
1:k:429:ARG:HD3	1:l:221:ILE:CG2	1.95	0.95
1:p:257:ARG:CD	1:u:37:SER:N	2.29	0.95
1:C:257:ARG:CD	1:D:37:SER:N	2.29	0.95
1:e:257:ARG:CD	1:q:37:SER:N	2.29	0.95
1:B:247:LEU:O	1:B:248:GLU:HB2	1.67	0.95
1:K:37:SER:N	1:L:257:ARG:CD	2.29	0.95
1:j:257:ARG:CD	1:z:37:SER:N	2.29	0.95
1:n:257:ARG:CD	1:s:37:SER:N	2.29	0.95
1:u:429:ARG:HD3	1:v:221:ILE:CG2	1.95	0.95
1:A:257:ARG:HG2	1:B:37:SER:CB	1.96	0.95
1:G:37:SER:N	1:W:257:ARG:CD	2.28	0.95
1:N:37:SER:N	1:g:257:ARG:CD	2.29	0.95
1:P:37:SER:N	1:Q:257:ARG:CD	2.29	0.95
1:l:247:LEU:O	1:l:248:GLU:HB2	1.67	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:37:SER:N	1:w:257:ARG:CD	2.29	0.95
1:S:429:ARG:HD3	1:U:221:ILE:CG2	1.94	0.95
1:X:247:LEU:O	1:X:248:GLU:HB2	1.67	0.95
1:g:316:ARG:HH21	1:h:98:ASN:HB3	1.20	0.95
1:A:98:ASN:HB3	1:I:316:ARG:HH21	1.20	0.95
1:N:33:GLY:O	1:N:36:HIS:HD2	1.28	0.95
1:O:37:SER:CB	1:P:257:ARG:HG2	1.97	0.95
1:S:37:SER:N	1:3:257:ARG:CD	2.29	0.95
1:S:247:LEU:O	1:S:248:GLU:HB2	1.67	0.95
1:0:247:LEU:O	1:0:248:GLU:HB2	1.67	0.95
1:2:247:LEU:O	1:2:248:GLU:HB2	1.66	0.95
1:I:247:LEU:O	1:I:248:GLU:HB2	1.66	0.94
1:Q:247:LEU:O	1:Q:248:GLU:HB2	1.67	0.94
1:4:37:SER:HA	1:b:257:ARG:HD2	0.95	0.94
1:5:221:ILE:HG22	1:a:429:ARG:CD	1.97	0.94
1:f:247:LEU:O	1:f:248:GLU:HB2	1.67	0.94
1:n:247:LEU:O	1:n:248:GLU:HB2	1.66	0.94
1:o:257:ARG:HG2	1:y:37:SER:CB	1.97	0.94
1:p:33:GLY:O	1:p:36:HIS:HD2	1.28	0.94
1:t:247:LEU:O	1:t:248:GLU:HB2	1.67	0.94
1:z:247:LEU:O	1:z:248:GLU:HB2	1.67	0.94
1:z:429:ARG:HD3	1:6:221:ILE:CG2	1.95	0.94
1:F:257:ARG:HG2	1:R:37:SER:CB	1.97	0.94
1:4:37:SER:N	1:b:257:ARG:HD2	1.83	0.94
1:k:96:THR:OG1	1:k:342:TYR:OH	1.82	0.94
1:w:98:ASN:HB3	1:x:316:ARG:HH21	1.21	0.94
1:z:316:ARG:HH21	1:6:98:ASN:HB3	1.21	0.94
1:U:37:SER:CB	1:4:257:ARG:HG2	1.97	0.94
1:5:429:ARG:HD3	1:b:221:ILE:CG2	1.97	0.94
1:l:257:ARG:CD	1:r:37:SER:N	2.29	0.94
1:B:98:ASN:CB	1:L:316:ARG:HH21	1.78	0.94
1:h:257:ARG:HG2	1:l:37:SER:CB	1.97	0.94
1:k:37:SER:CB	1:s:257:ARG:HG2	1.97	0.94
1:l:316:ARG:HH21	1:m:98:ASN:HB3	1.20	0.94
1:z:316:ARG:HH21	1:6:98:ASN:CB	1.78	0.94
1:A:429:ARG:HD3	1:G:221:ILE:CG2	1.96	0.94
1:G:37:SER:CB	1:W:257:ARG:HG2	1.98	0.94
1:H:247:LEU:O	1:H:248:GLU:HB2	1.67	0.94
1:K:98:ASN:HB3	1:7:316:ARG:HH21	1.20	0.94
1:K:257:ARG:HG2	1:6:37:SER:CB	1.97	0.94
1:N:247:LEU:O	1:N:248:GLU:HB2	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:96:THR:OG1	1:O:342:TYR:OH	1.83	0.94
1:S:316:ARG:HH21	1:U:98:ASN:HB3	1.21	0.94
1:e:247:LEU:O	1:e:248:GLU:HB2	1.67	0.94
1:r:247:LEU:O	1:r:248:GLU:HB2	1.67	0.94
1:H:316:ARG:HH21	1:W:98:ASN:HB3	1.21	0.94
1:R:247:LEU:O	1:R:248:GLU:HB2	1.67	0.94
1:S:316:ARG:HH21	1:U:98:ASN:CB	1.78	0.94
1:T:257:ARG:HG2	1:c:37:SER:CB	1.97	0.94
1:1:33:GLY:O	1:1:36:HIS:HD2	1.28	0.94
1:g:37:SER:CB	1:m:257:ARG:HG2	1.98	0.94
1:v:37:SER:CB	1:w:257:ARG:HG2	1.98	0.94
1:x:247:LEU:O	1:x:248:GLU:HB2	1.66	0.94
1:E:96:THR:OG1	1:E:342:TYR:OH	1.83	0.94
1:c:33:GLY:O	1:c:36:HIS:HD2	1.28	0.94
1:t:316:ARG:HH21	1:u:98:ASN:HB3	1.21	0.94
1:C:247:LEU:O	1:C:248:GLU:HB2	1.67	0.94
1:E:221:ILE:HG22	1:F:429:ARG:CD	1.98	0.94
1:H:37:SER:CB	1:I:257:ARG:HG2	1.98	0.94
1:K:221:ILE:HG22	1:7:429:ARG:CD	1.98	0.94
1:Z:247:LEU:O	1:Z:248:GLU:HB2	1.67	0.94
1:1:37:SER:CB	1:i:257:ARG:HG2	1.98	0.94
1:a:257:ARG:HG2	1:e:37:SER:CB	1.97	0.94
1:o:429:ARG:CD	1:p:221:ILE:HG22	1.98	0.94
1:r:33:GLY:O	1:r:36:HIS:HD2	1.28	0.94
1:y:247:LEU:O	1:y:248:GLU:HB2	1.67	0.94
1:E:247:LEU:O	1:E:248:GLU:HB2	1.67	0.94
1:O:98:ASN:HB3	1:h:316:ARG:HH21	1.20	0.94
1:V:316:ARG:HH21	1:4:98:ASN:CB	1.78	0.94
1:X:257:ARG:HG2	1:5:37:SER:CB	1.97	0.94
1:Y:247:LEU:O	1:Y:248:GLU:HB2	1.67	0.94
1:p:96:THR:OG1	1:p:342:TYR:OH	1.82	0.94
1:p:247:LEU:O	1:p:248:GLU:HB2	1.66	0.94
1:t:257:ARG:HG2	1:x:37:SER:CB	1.98	0.94
1:w:37:SER:CB	1:7:257:ARG:HG2	1.97	0.94
1:A:34:VAL:HG22	1:B:36:HIS:NE2	1.83	0.94
1:A:98:ASN:CB	1:I:316:ARG:HH21	1.77	0.94
1:B:429:ARG:CD	1:J:221:ILE:HG22	1.98	0.94
1:K:96:THR:OG1	1:K:342:TYR:OH	1.82	0.94
1:K:98:ASN:CB	1:7:316:ARG:HH21	1.78	0.94
1:Q:37:SER:CB	1:S:257:ARG:HG2	1.97	0.94
1:R:257:ARG:HG2	1:V:37:SER:CB	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:257:ARG:HG2	1:W:37:SER:CB	1.98	0.94
1:V:429:ARG:CD	1:4:221:ILE:HG22	1.98	0.94
1:X:37:SER:CB	1:Y:257:ARG:HG2	1.99	0.94
1:Z:257:ARG:HG2	1:0:37:SER:CB	1.98	0.94
1:0:316:ARG:HH21	1:7:98:ASN:CB	1.78	0.94
1:a:37:SER:CB	1:u:257:ARG:HG2	1.98	0.94
1:y:257:ARG:HG2	1:7:37:SER:CB	1.98	0.94
1:y:316:ARG:HH21	1:z:98:ASN:CB	1.78	0.94
1:H:37:SER:HG	1:I:257:ARG:HG2	1.12	0.93
1:R:316:ARG:HH21	1:S:98:ASN:CB	1.78	0.93
1:V:316:ARG:HH21	1:4:98:ASN:HB3	1.20	0.93
1:Z:429:ARG:CD	1:x:221:ILE:HG22	1.98	0.93
1:d:257:ARG:HG2	1:f:37:SER:CB	1.98	0.93
1:n:37:SER:CB	1:z:257:ARG:HG2	1.97	0.93
1:B:98:ASN:HB3	1:L:316:ARG:HH21	1.20	0.93
1:B:257:ARG:HG2	1:C:37:SER:CB	1.97	0.93
1:F:98:ASN:CB	1:Q:316:ARG:HH21	1.78	0.93
1:H:221:ILE:HG22	1:Y:429:ARG:CD	1.99	0.93
1:M:257:ARG:HG2	1:2:37:SER:CB	1.98	0.93
1:W:429:ARG:CD	1:Y:221:ILE:HG22	1.98	0.93
1:Z:221:ILE:HG22	1:w:429:ARG:CD	1.98	0.93
1:c:96:THR:OG1	1:c:342:TYR:OH	1.83	0.93
1:c:429:ARG:CD	1:d:221:ILE:HG22	1.98	0.93
1:j:37:SER:CB	1:k:257:ARG:HG2	1.98	0.93
1:k:98:ASN:HB3	1:m:316:ARG:HH21	1.21	0.93
1:k:247:LEU:O	1:k:248:GLU:HB2	1.66	0.93
1:n:316:ARG:HH21	1:o:98:ASN:CB	1.78	0.93
1:F:221:ILE:HG22	1:Q:429:ARG:CD	1.98	0.93
1:M:221:ILE:HG22	1:1:429:ARG:CD	1.98	0.93
1:1:96:THR:OG1	1:1:342:TYR:OH	1.82	0.93
1:n:429:ARG:CD	1:o:221:ILE:HG22	1.98	0.93
1:y:98:ASN:HB3	1:6:316:ARG:HH21	1.20	0.93
1:F:37:SER:CB	1:G:257:ARG:HG2	1.98	0.93
1:J:316:ARG:HH21	1:L:98:ASN:HB3	1.20	0.93
1:O:247:LEU:O	1:O:248:GLU:HB2	1.67	0.93
1:V:96:THR:OG1	1:V:342:TYR:OH	1.82	0.93
1:V:98:ASN:CB	1:X:316:ARG:HH21	1.78	0.93
1:2:221:ILE:HG22	1:j:429:ARG:CD	1.99	0.93
1:3:429:ARG:CD	1:f:221:ILE:HG22	1.99	0.93
1:4:96:THR:OG1	1:4:342:TYR:OH	1.83	0.93
1:D:429:ARG:CD	1:N:221:ILE:HG22	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:98:ASN:HB3	1:1:316:ARG:HH21	1.21	0.93
1:N:37:SER:CB	1:g:257:ARG:HG2	1.98	0.93
1:O:316:ARG:HH21	1:g:98:ASN:HB3	1.21	0.93
1:c:246:PRO:O	1:c:249:THR:HG21	1.69	0.93
1:m:96:THR:OG1	1:m:342:TYR:OH	1.82	0.93
1:o:37:SER:CB	1:v:257:ARG:HG2	1.98	0.93
1:p:37:SER:CB	1:q:257:ARG:HG2	1.97	0.93
1:x:246:PRO:O	1:x:249:THR:HG21	1.69	0.93
1:L:37:SER:CB	1:1:257:ARG:HG2	1.97	0.93
1:M:37:SER:CB	1:N:257:ARG:HG2	1.97	0.93
1:O:257:ARG:HG2	1:3:37:SER:CB	1.98	0.93
1:R:221:ILE:HG22	1:U:429:ARG:CD	1.98	0.93
1:1:246:PRO:O	1:1:249:THR:HG21	1.69	0.93
1:d:37:SER:CB	1:r:257:ARG:HG2	1.97	0.93
1:p:257:ARG:HG2	1:u:37:SER:CB	1.98	0.93
1:t:316:ARG:HH21	1:u:98:ASN:CB	1.78	0.93
1:z:429:ARG:CD	1:6:221:ILE:HG22	1.98	0.93
1:D:257:ARG:HG2	1:E:37:SER:CB	1.97	0.93
1:H:246:PRO:O	1:H:249:THR:HG21	1.69	0.93
1:H:257:ARG:HG2	1:Z:37:SER:CB	1.97	0.93
1:J:37:SER:CB	1:0:257:ARG:HG2	1.97	0.93
1:K:37:SER:CB	1:L:257:ARG:HG2	1.98	0.93
1:S:429:ARG:CD	1:U:221:ILE:HG22	1.98	0.93
1:d:246:PRO:O	1:d:249:THR:HG21	1.69	0.93
1:f:257:ARG:HG2	1:h:37:SER:HG	1.22	0.93
1:p:257:ARG:HG2	1:u:37:SER:HG	1.12	0.93
1:q:429:ARG:CD	1:r:221:ILE:HG22	1.98	0.93
1:u:316:ARG:HH21	1:v:98:ASN:HB3	1.20	0.93
1:C:257:ARG:HG2	1:D:37:SER:CB	1.98	0.93
1:I:246:PRO:O	1:I:249:THR:HG21	1.69	0.93
1:L:247:LEU:O	1:L:248:GLU:HB2	1.67	0.93
1:M:96:THR:OG1	1:M:342:TYR:OH	1.83	0.93
1:M:246:PRO:O	1:M:249:THR:HG21	1.69	0.93
1:T:37:SER:CB	1:U:257:ARG:HG2	1.98	0.93
1:Y:37:SER:CB	1:x:257:ARG:HG2	1.97	0.93
1:b:247:LEU:O	1:b:248:GLU:HB2	1.67	0.93
1:i:37:SER:CB	1:6:257:ARG:HG2	1.98	0.93
1:l:257:ARG:HG2	1:r:37:SER:CB	1.98	0.93
1:u:429:ARG:CD	1:v:221:ILE:HG22	1.99	0.93
1:y:221:ILE:HG22	1:6:429:ARG:CD	1.98	0.93
1:7:96:THR:OG1	1:7:342:TYR:OH	1.83	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:ARG:HD2	1:B:37:SER:N	1.82	0.93
1:D:221:ILE:HG22	1:P:429:ARG:CD	1.98	0.93
1:K:257:ARG:HD2	1:6:37:SER:N	1.84	0.93
1:O:246:PRO:O	1:O:249:THR:HG21	1.69	0.93
1:R:98:ASN:HB3	1:U:316:ARG:HH21	1.20	0.93
1:R:429:ARG:CD	1:S:221:ILE:HG22	1.98	0.93
1:U:37:SER:N	1:4:257:ARG:HD2	1.84	0.93
1:d:247:LEU:O	1:d:248:GLU:HB2	1.67	0.93
1:j:96:THR:OG1	1:j:342:TYR:OH	1.82	0.93
1:n:98:ASN:CB	1:p:316:ARG:HH21	1.78	0.93
1:t:246:PRO:O	1:t:249:THR:HG21	1.69	0.93
1:I:37:SER:CB	1:J:257:ARG:HG2	1.98	0.93
1:J:37:SER:N	1:0:257:ARG:HD2	1.84	0.93
1:J:247:LEU:O	1:J:248:GLU:HB2	1.66	0.93
1:2:257:ARG:HG2	1:m:37:SER:HG	1.22	0.93
1:3:316:ARG:HH21	1:f:98:ASN:CB	1.78	0.93
1:a:221:ILE:CG2	1:b:429:ARG:HD3	1.99	0.93
1:b:246:PRO:O	1:b:249:THR:HG21	1.69	0.93
1:d:96:THR:OG1	1:d:342:TYR:OH	1.83	0.93
1:e:257:ARG:HG2	1:q:37:SER:CB	1.98	0.93
1:i:316:ARG:HH21	1:j:98:ASN:CB	1.78	0.93
1:k:246:PRO:O	1:k:249:THR:HG21	1.69	0.93
1:q:221:ILE:HG22	1:s:429:ARG:CD	1.98	0.93
1:t:429:ARG:CD	1:u:221:ILE:HG22	1.99	0.93
1:A:37:SER:N	1:E:257:ARG:CD	2.31	0.92
1:C:221:ILE:HG22	1:M:429:ARG:CD	1.98	0.92
1:E:316:ARG:HH21	1:Q:98:ASN:CB	1.78	0.92
1:H:429:ARG:CD	1:W:221:ILE:HG22	1.98	0.92
1:L:246:PRO:O	1:L:249:THR:HG21	1.69	0.92
1:5:257:ARG:HG2	1:t:37:SER:CB	1.98	0.92
1:d:429:ARG:CD	1:e:221:ILE:HG22	1.99	0.92
1:k:221:ILE:HG22	1:m:429:ARG:CD	1.98	0.92
1:n:316:ARG:HH21	1:o:98:ASN:HB3	1.20	0.92
1:r:246:PRO:O	1:r:249:THR:HG21	1.69	0.92
1:y:429:ARG:CD	1:z:221:ILE:HG22	1.98	0.92
1:J:429:ARG:CD	1:L:221:ILE:HG22	1.98	0.92
1:M:247:LEU:O	1:M:248:GLU:HB2	1.66	0.92
1:T:316:ARG:HH21	1:3:98:ASN:CB	1.78	0.92
1:T:316:ARG:HH21	1:3:98:ASN:HB3	1.21	0.92
1:V:246:PRO:O	1:V:249:THR:HG21	1.69	0.92
1:c:316:ARG:HH21	1:d:98:ASN:HB3	1.21	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:221:ILE:HG22	1:v:429:ARG:CD	1.99	0.92
1:7:247:LEU:O	1:7:248:GLU:HB2	1.67	0.92
1:A:37:SER:HA	1:E:257:ARG:HD2	0.93	0.92
1:G:429:ARG:CD	1:I:221:ILE:HG22	1.99	0.92
1:N:246:PRO:O	1:N:249:THR:HG21	1.69	0.92
1:O:221:ILE:HG22	1:h:429:ARG:CD	1.98	0.92
1:Y:246:PRO:O	1:Y:249:THR:HG21	1.69	0.92
1:Z:246:PRO:O	1:Z:249:THR:HG21	1.69	0.92
1:0:316:ARG:HH21	1:7:98:ASN:HB3	1.20	0.92
1:2:257:ARG:HG2	1:m:37:SER:CB	1.98	0.92
1:3:96:THR:OG1	1:3:342:TYR:OH	1.82	0.92
1:5:96:THR:OG1	1:5:342:TYR:OH	1.83	0.92
1:q:247:LEU:O	1:q:248:GLU:HB2	1.67	0.92
1:r:429:ARG:CD	1:s:221:ILE:HG22	1.98	0.92
1:w:221:ILE:HG22	1:x:429:ARG:CD	1.98	0.92
1:z:246:PRO:O	1:z:249:THR:HG21	1.69	0.92
1:A:221:ILE:HG22	1:I:429:ARG:CD	1.99	0.92
1:C:246:PRO:O	1:C:249:THR:HG21	1.69	0.92
1:D:247:LEU:O	1:D:248:GLU:HB2	1.67	0.92
1:X:34:VAL:HG22	1:5:36:HIS:NE2	1.85	0.92
1:2:98:ASN:CB	1:j:316:ARG:HH21	1.78	0.92
1:2:257:ARG:HD2	1:m:37:SER:N	1.85	0.92
1:5:247:LEU:O	1:5:248:GLU:HB2	1.67	0.92
1:k:316:ARG:HH21	1:l:98:ASN:HB3	1.21	0.92
1:7:246:PRO:O	1:7:249:THR:HG21	1.69	0.92
1:J:316:ARG:HH21	1:L:98:ASN:CB	1.78	0.92
1:N:429:ARG:CD	1:P:221:ILE:HG22	1.98	0.92
1:S:246:PRO:O	1:S:249:THR:HG21	1.69	0.92
1:V:247:LEU:O	1:V:248:GLU:HB2	1.67	0.92
1:k:429:ARG:CD	1:l:221:ILE:HG22	1.98	0.92
1:n:257:ARG:HG2	1:s:37:SER:CB	1.98	0.92
1:C:429:ARG:CD	1:1:221:ILE:HG22	1.98	0.92
1:J:96:THR:OG1	1:J:342:TYR:OH	1.83	0.92
1:T:247:LEU:O	1:T:248:GLU:HB2	1.67	0.92
1:e:246:PRO:O	1:e:249:THR:HG21	1.69	0.92
1:g:429:ARG:CD	1:h:221:ILE:HG22	1.98	0.92
1:i:247:LEU:O	1:i:248:GLU:HB2	1.67	0.92
1:i:316:ARG:HH21	1:j:98:ASN:HB3	1.21	0.92
1:l:429:ARG:CD	1:m:221:ILE:HG22	1.99	0.92
1:A:429:ARG:CD	1:G:221:ILE:HG22	2.00	0.92
1:D:98:ASN:CB	1:P:316:ARG:HH21	1.78	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:98:ASN:HB3	1:Q:316:ARG:HH21	1.20	0.92
1:O:429:ARG:CD	1:g:221:ILE:HG22	1.98	0.92
1:P:37:SER:CB	1:Q:257:ARG:HG2	1.99	0.92
1:T:221:ILE:HG22	1:f:429:ARG:CD	1.98	0.92
1:V:221:ILE:HG22	1:X:429:ARG:CD	1.98	0.92
1:X:257:ARG:HD2	1:5:37:SER:N	1.85	0.92
1:0:246:PRO:O	1:0:249:THR:HG21	1.69	0.92
1:0:429:ARG:CD	1:7:221:ILE:HG22	1.98	0.92
1:2:316:ARG:HH21	1:i:98:ASN:CB	1.78	0.92
1:a:36:HIS:NE2	1:u:34:VAL:HG22	1.85	0.92
1:c:221:ILE:HG22	1:e:429:ARG:CD	1.98	0.92
1:f:257:ARG:HG2	1:h:37:SER:CB	1.98	0.92
1:j:247:LEU:O	1:j:248:GLU:HB2	1.67	0.92
1:j:257:ARG:HG2	1:z:37:SER:CB	1.98	0.92
1:n:221:ILE:HG22	1:p:429:ARG:CD	1.98	0.92
1:B:257:ARG:HD2	1:C:37:SER:N	1.85	0.92
1:E:429:ARG:CD	1:Q:221:ILE:HG22	1.98	0.92
1:J:246:PRO:O	1:J:249:THR:HG21	1.69	0.92
1:K:37:SER:N	1:L:257:ARG:HD2	1.85	0.92
1:M:37:SER:N	1:N:257:ARG:HD2	1.84	0.92
1:S:37:SER:CB	1:3:257:ARG:HG2	1.98	0.92
1:X:246:PRO:O	1:X:249:THR:HG21	1.69	0.92
1:c:316:ARG:HH21	1:d:98:ASN:CB	1.78	0.92
1:f:257:ARG:HD2	1:h:37:SER:N	1.85	0.92
1:j:37:SER:N	1:k:257:ARG:HD2	1.85	0.92
1:A:257:ARG:HG2	1:B:37:SER:HG	1.09	0.92
1:B:221:ILE:HG22	1:L:429:ARG:CD	1.98	0.92
1:T:429:ARG:CD	1:3:221:ILE:HG22	1.99	0.92
1:U:96:THR:OG1	1:U:342:TYR:OH	1.82	0.92
1:Y:96:THR:OG1	1:Y:342:TYR:OH	1.83	0.92
1:Z:96:THR:OG1	1:Z:342:TYR:OH	1.83	0.92
1:2:429:ARG:CD	1:i:221:ILE:HG22	1.99	0.92
1:3:247:LEU:O	1:3:248:GLU:HB2	1.66	0.92
1:l:246:PRO:O	1:l:249:THR:HG21	1.69	0.92
1:M:98:ASN:CB	1:1:316:ARG:HH21	1.78	0.92
1:Q:246:PRO:O	1:Q:249:THR:HG21	1.69	0.92
1:T:37:SER:N	1:U:257:ARG:HD2	1.85	0.92
1:T:98:ASN:CB	1:f:316:ARG:HH21	1.78	0.92
1:V:98:ASN:HB3	1:X:316:ARG:HH21	1.20	0.92
1:5:323:SER:OG	1:b:98:ASN:HA	1.68	0.92
1:d:37:SER:N	1:r:257:ARG:HD2	1.84	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:257:ARG:HD2	1:z:37:SER:N	1.85	0.92
1:q:98:ASN:CB	1:s:316:ARG:HH21	1.78	0.92
1:A:316:ARG:HH21	1:G:98:ASN:HB3	1.20	0.91
1:D:96:THR:OG1	1:D:342:TYR:OH	1.83	0.91
1:E:316:ARG:HH21	1:Q:98:ASN:HB3	1.20	0.91
1:O:257:ARG:HD2	1:3:37:SER:N	1.85	0.91
1:b:37:SER:HA	1:c:257:ARG:HD2	0.92	0.91
1:g:246:PRO:O	1:g:249:THR:HG21	1.69	0.91
1:i:429:ARG:CD	1:j:221:ILE:HG22	1.99	0.91
1:l:96:THR:OG1	1:l:342:TYR:OH	1.83	0.91
1:m:247:LEU:O	1:m:248:GLU:HB2	1.67	0.91
1:q:96:THR:OG1	1:q:342:TYR:OH	1.82	0.91
1:E:246:PRO:O	1:E:249:THR:HG21	1.69	0.91
1:F:247:LEU:O	1:F:248:GLU:HB2	1.67	0.91
1:V:34:VAL:HG22	1:W:36:HIS:NE2	1.85	0.91
1:X:96:THR:OG1	1:X:342:TYR:OH	1.83	0.91
1:5:246:PRO:O	1:5:249:THR:HG21	1.69	0.91
1:f:96:THR:OG1	1:f:342:TYR:OH	1.82	0.91
1:n:246:PRO:O	1:n:249:THR:HG21	1.69	0.91
1:p:36:HIS:NE2	1:q:34:VAL:HG22	1.85	0.91
1:6:96:THR:OG1	1:6:342:TYR:OH	1.83	0.91
1:J:36:HIS:NE2	1:0:34:VAL:HG22	1.85	0.91
1:Q:37:SER:N	1:S:257:ARG:HD2	1.85	0.91
1:Z:257:ARG:HD2	1:0:37:SER:N	1.85	0.91
1:p:246:PRO:O	1:p:249:THR:HG21	1.69	0.91
1:w:36:HIS:NE2	1:7:34:VAL:HG22	1.85	0.91
1:S:37:SER:N	1:3:257:ARG:HD2	1.85	0.91
1:X:37:SER:N	1:Y:257:ARG:HD2	1.85	0.91
1:0:96:THR:OG1	1:0:342:TYR:OH	1.83	0.91
1:2:96:THR:OG1	1:2:342:TYR:OH	1.82	0.91
1:n:37:SER:N	1:z:257:ARG:HD2	1.85	0.91
1:o:247:LEU:O	1:o:248:GLU:HB2	1.67	0.91
1:q:316:ARG:HH21	1:r:98:ASN:HB3	1.20	0.91
1:A:316:ARG:HH22	1:G:98:ASN:HB3	1.10	0.91
1:C:257:ARG:HD2	1:D:37:SER:N	1.85	0.91
1:K:246:PRO:O	1:K:249:THR:HG21	1.69	0.91
1:K:429:ARG:CD	1:0:221:ILE:HG22	1.98	0.91
1:W:247:LEU:O	1:W:248:GLU:HB2	1.66	0.91
1:a:37:SER:HG	1:u:257:ARG:HG2	1.09	0.91
1:d:257:ARG:HD2	1:f:37:SER:N	1.85	0.91
1:g:96:THR:OG1	1:g:342:TYR:OH	1.83	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:247:LEU:O	1:h:248:GLU:HB2	1.67	0.91
1:B:34:VAL:HG22	1:C:36:HIS:NE2	1.86	0.91
1:D:34:VAL:HG22	1:E:36:HIS:NE2	1.85	0.91
1:M:257:ARG:HD2	1:2:37:SER:N	1.85	0.91
1:4:37:SER:HG	1:b:257:ARG:HG2	1.25	0.91
1:e:257:ARG:HD2	1:q:37:SER:N	1.85	0.91
1:j:36:HIS:NE2	1:k:34:VAL:HG22	1.86	0.91
1:s:247:LEU:O	1:s:248:GLU:HB2	1.67	0.91
1:u:247:LEU:O	1:u:248:GLU:HB2	1.66	0.91
1:6:246:PRO:O	1:6:249:THR:HG21	1.69	0.91
1:F:34:VAL:HG22	1:R:36:HIS:NE2	1.86	0.91
1:X:221:ILE:HG22	1:4:429:ARG:CD	1.98	0.91
1:a:257:ARG:HD2	1:e:37:SER:N	1.86	0.91
1:o:316:ARG:HH21	1:p:98:ASN:HB3	1.21	0.91
1:s:246:PRO:O	1:s:249:THR:HG21	1.69	0.91
1:G:37:SER:N	1:W:257:ARG:HD2	1.85	0.91
1:U:246:PRO:O	1:U:249:THR:HG21	1.69	0.91
1:4:246:PRO:O	1:4:249:THR:HG21	1.69	0.91
1:a:34:VAL:HG22	1:e:36:HIS:NE2	1.86	0.91
1:n:98:ASN:HB3	1:p:316:ARG:HH21	1.20	0.91
1:o:257:ARG:HD2	1:y:37:SER:N	1.85	0.91
1:p:34:VAL:HG22	1:u:36:HIS:NE2	1.86	0.91
1:A:247:LEU:O	1:A:248:GLU:HB2	1.67	0.91
1:G:247:LEU:O	1:G:248:GLU:HB2	1.66	0.91
1:G:316:ARG:HH21	1:I:98:ASN:CB	1.78	0.91
1:T:257:ARG:HD2	1:c:37:SER:N	1.84	0.91
1:k:37:SER:N	1:s:257:ARG:HD2	1.84	0.91
1:n:34:VAL:HG22	1:s:36:HIS:NE2	1.86	0.91
1:o:34:VAL:HG22	1:y:36:HIS:NE2	1.86	0.91
1:q:316:ARG:HH22	1:r:98:ASN:HB3	1.08	0.91
1:w:247:LEU:O	1:w:248:GLU:HB2	1.67	0.91
1:y:257:ARG:HD2	1:7:37:SER:N	1.85	0.91
1:D:316:ARG:HH21	1:N:98:ASN:HB3	1.20	0.91
1:D:316:ARG:HH22	1:N:98:ASN:HB3	1.08	0.91
1:F:257:ARG:HD2	1:R:37:SER:N	1.85	0.91
1:P:246:PRO:O	1:P:249:THR:HG21	1.69	0.91
1:P:247:LEU:O	1:P:248:GLU:HB2	1.67	0.91
1:1:247:LEU:O	1:1:248:GLU:HB2	1.67	0.91
1:c:247:LEU:O	1:c:248:GLU:HB2	1.67	0.91
1:v:37:SER:N	1:w:257:ARG:HD2	1.85	0.91
1:w:37:SER:N	1:7:257:ARG:HD2	1.84	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:98:ASN:HB3	1:1:316:ARG:HH22	1.08	0.90
1:P:36:HIS:NE2	1:Q:34:VAL:HG22	1.87	0.90
1:V:257:ARG:HD2	1:W:37:SER:N	1.84	0.90
1:X:37:SER:HA	1:Y:257:ARG:HD2	0.90	0.90
1:Y:33:GLY:O	1:Y:36:HIS:HD2	1.28	0.90
1:1:37:SER:N	1:i:257:ARG:HD2	1.85	0.90
1:h:257:ARG:HD2	1:l:37:SER:N	1.84	0.90
1:B:246:PRO:O	1:B:249:THR:HG21	1.69	0.90
1:G:246:PRO:O	1:G:249:THR:HG21	1.69	0.90
1:I:37:SER:N	1:J:257:ARG:HD2	1.85	0.90
1:O:34:VAL:HG22	1:3:36:HIS:NE2	1.86	0.90
1:R:257:ARG:HD2	1:V:37:SER:N	1.85	0.90
1:Z:257:ARG:HD2	1:0:37:SER:HA	0.90	0.90
1:5:316:ARG:HH22	1:b:98:ASN:HB3	1.12	0.90
1:a:37:SER:N	1:u:257:ARG:HD2	1.84	0.90
1:A:96:THR:OG1	1:A:342:TYR:OH	1.83	0.90
1:C:316:ARG:HH21	1:1:98:ASN:CB	1.78	0.90
1:E:98:ASN:HB3	1:F:316:ARG:HH21	1.21	0.90
1:P:37:SER:N	1:Q:257:ARG:HD2	1.85	0.90
1:R:34:VAL:HG22	1:V:36:HIS:NE2	1.86	0.90
1:b:37:SER:N	1:c:257:ARG:HD2	1.82	0.90
1:c:316:ARG:HH22	1:d:98:ASN:HB3	1.08	0.90
1:l:316:ARG:HH22	1:m:98:ASN:HB3	1.08	0.90
1:t:98:ASN:CB	1:v:316:ARG:HH21	1.78	0.90
1:w:98:ASN:CB	1:x:316:ARG:HH21	1.78	0.90
1:Z:33:GLY:O	1:Z:36:HIS:HD2	1.28	0.90
1:3:316:ARG:HH22	1:f:98:ASN:HB3	1.08	0.90
1:a:246:PRO:O	1:a:249:THR:HG21	1.69	0.90
1:g:37:SER:N	1:m:257:ARG:HD2	1.85	0.90
1:n:257:ARG:HD2	1:s:37:SER:N	1.85	0.90
1:q:98:ASN:HB3	1:s:316:ARG:HH22	1.08	0.90
1:v:37:SER:HA	1:w:257:ARG:HD2	0.90	0.90
1:v:246:PRO:O	1:v:249:THR:HG21	1.69	0.90
1:v:247:LEU:O	1:v:248:GLU:HB2	1.67	0.90
1:y:246:PRO:O	1:y:249:THR:HG21	1.69	0.90
1:y:257:ARG:HD2	1:7:37:SER:HA	0.91	0.90
1:G:37:SER:HA	1:W:257:ARG:HD2	0.90	0.90
1:K:247:LEU:O	1:K:248:GLU:HB2	1.67	0.90
1:O:37:SER:N	1:P:257:ARG:HD2	1.85	0.90
1:R:246:PRO:O	1:R:249:THR:HG21	1.69	0.90
1:R:257:ARG:HD2	1:V:37:SER:HA	0.90	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:316:ARG:HH22	1:h:98:ASN:HB3	1.08	0.90
1:y:34:VAL:HG22	1:7:36:HIS:NE2	1.86	0.90
1:D:98:ASN:HB3	1:P:316:ARG:HH22	1.08	0.90
1:M:257:ARG:HD2	1:2:37:SER:HA	0.90	0.90
1:V:316:ARG:HH22	1:4:98:ASN:HB3	1.08	0.90
1:c:98:ASN:CB	1:e:316:ARG:HH21	1.78	0.90
1:d:257:ARG:HD2	1:f:37:SER:HA	0.90	0.90
1:u:96:THR:OG1	1:u:342:TYR:OH	1.83	0.90
1:w:246:PRO:O	1:w:249:THR:HG21	1.69	0.90
1:K:98:ASN:HB3	1:7:316:ARG:HH22	1.08	0.90
1:2:98:ASN:HB3	1:j:316:ARG:HH22	1.08	0.90
1:h:34:VAL:HG22	1:l:36:HIS:NE2	1.85	0.90
1:o:37:SER:HA	1:v:257:ARG:HD2	0.90	0.90
1:C:98:ASN:CB	1:M:316:ARG:HH21	1.78	0.90
1:D:316:ARG:HH21	1:N:98:ASN:CB	1.78	0.90
1:F:37:SER:HA	1:G:257:ARG:HD2	0.90	0.90
1:F:257:ARG:HG2	1:R:37:SER:HG	1.10	0.90
1:G:37:SER:HG	1:W:257:ARG:HG2	1.28	0.90
1:K:37:SER:HA	1:L:257:ARG:HD2	0.90	0.90
1:L:37:SER:N	1:1:257:ARG:HD2	1.85	0.90
1:M:36:HIS:NE2	1:N:34:VAL:HG22	1.85	0.90
1:N:96:THR:OG1	1:N:342:TYR:OH	1.83	0.90
1:T:323:SER:OG	1:3:98:ASN:HA	1.72	0.90
1:V:98:ASN:HA	1:X:323:SER:OG	1.72	0.90
1:0:323:SER:OG	1:7:98:ASN:HA	1.72	0.90
1:o:257:ARG:HD2	1:y:37:SER:HA	0.90	0.90
1:p:257:ARG:HD2	1:u:37:SER:HA	0.90	0.90
1:r:96:THR:OG1	1:r:342:TYR:OH	1.83	0.90
1:A:323:SER:OG	1:G:98:ASN:HA	1.71	0.90
1:F:246:PRO:O	1:F:249:THR:HG21	1.69	0.90
1:H:316:ARG:HH21	1:W:98:ASN:CB	1.78	0.90
1:W:246:PRO:O	1:W:249:THR:HG21	1.69	0.90
1:q:98:ASN:HA	1:s:323:SER:OG	1.72	0.90
1:u:316:ARG:HH22	1:v:98:ASN:HB3	1.08	0.90
1:y:323:SER:OG	1:z:98:ASN:HA	1.72	0.90
1:D:98:ASN:HA	1:P:323:SER:OG	1.72	0.90
1:D:246:PRO:O	1:D:249:THR:HG21	1.69	0.90
1:F:36:HIS:NE2	1:G:34:VAL:HG22	1.86	0.90
1:F:257:ARG:HD2	1:R:37:SER:HA	0.90	0.90
1:L:37:SER:HA	1:1:257:ARG:HD2	0.90	0.90
1:R:323:SER:OG	1:S:98:ASN:HA	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:247:LEU:O	1:4:248:GLU:HB2	1.67	0.90
1:5:98:ASN:HB3	1:a:316:ARG:HH21	1.21	0.90
1:5:257:ARG:HD2	1:t:37:SER:N	1.86	0.90
1:d:36:HIS:NE2	1:r:34:VAL:HG22	1.85	0.90
1:i:323:SER:OG	1:j:98:ASN:HA	1.72	0.90
1:A:37:SER:CB	1:E:257:ARG:HG2	2.01	0.89
1:A:316:ARG:HH21	1:G:98:ASN:CB	1.78	0.89
1:B:316:ARG:HH21	1:J:98:ASN:HB3	1.21	0.89
1:K:257:ARG:HD2	1:6:37:SER:HA	0.89	0.89
1:U:37:SER:HA	1:4:257:ARG:HD2	0.89	0.89
1:a:98:ASN:HB3	1:b:316:ARG:HH21	1.27	0.89
1:o:36:HIS:NE2	1:v:34:VAL:HG22	1.86	0.89
1:p:257:ARG:HD2	1:u:37:SER:N	1.85	0.89
1:q:246:PRO:O	1:q:249:THR:HG21	1.69	0.89
1:q:316:ARG:HH21	1:r:98:ASN:CB	1.78	0.89
1:u:316:ARG:HH21	1:v:98:ASN:CB	1.78	0.89
1:H:257:ARG:HD2	1:Z:37:SER:HA	0.90	0.89
1:K:323:SER:OG	1:0:98:ASN:HA	1.72	0.89
1:L:225:ASP:HB2	1:L:226:ARG:HB2	1.54	0.89
1:S:316:ARG:HH22	1:U:98:ASN:HB3	1.08	0.89
1:T:225:ASP:HB2	1:T:226:ARG:HB2	1.54	0.89
1:d:316:ARG:HH21	1:e:98:ASN:CB	1.78	0.89
1:l:225:ASP:HB2	1:l:226:ARG:HB2	1.54	0.89
1:l:257:ARG:HD2	1:r:37:SER:HA	0.90	0.89
1:o:246:PRO:O	1:o:249:THR:HG21	1.69	0.89
1:p:37:SER:N	1:q:257:ARG:HD2	1.84	0.89
1:y:98:ASN:HB3	1:6:316:ARG:HH22	1.08	0.89
1:J:225:ASP:HB2	1:J:226:ARG:HB2	1.54	0.89
1:T:98:ASN:HA	1:f:323:SER:OG	1.72	0.89
1:X:98:ASN:HA	1:4:323:SER:OG	1.72	0.89
1:1:225:ASP:HB2	1:1:226:ARG:HB2	1.54	0.89
1:2:246:PRO:O	1:2:249:THR:HG21	1.69	0.89
1:5:429:ARG:CD	1:b:221:ILE:HG22	2.02	0.89
1:b:225:ASP:HB2	1:b:226:ARG:HB2	1.54	0.89
1:g:36:HIS:NE2	1:m:34:VAL:HG22	1.86	0.89
1:j:246:PRO:O	1:j:249:THR:HG21	1.69	0.89
1:o:323:SER:OG	1:p:98:ASN:HA	1.73	0.89
1:t:257:ARG:HD2	1:x:37:SER:N	1.85	0.89
1:E:98:ASN:HA	1:F:323:SER:OG	1.72	0.89
1:H:37:SER:HA	1:I:257:ARG:HD2	0.90	0.89
1:H:323:SER:OG	1:W:98:ASN:HA	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:257:ARG:HG2	1:2:37:SER:HG	1.12	0.89
1:T:34:VAL:HG22	1:c:36:HIS:NE2	1.85	0.89
1:T:246:PRO:O	1:T:249:THR:HG21	1.69	0.89
1:Y:36:HIS:NE2	1:x:34:VAL:HG22	1.86	0.89
1:Y:37:SER:HA	1:x:257:ARG:HD2	0.90	0.89
1:2:34:VAL:HG22	1:m:36:HIS:NE2	1.86	0.89
1:2:323:SER:OG	1:i:98:ASN:HA	1.72	0.89
1:c:225:ASP:HB2	1:c:226:ARG:HB2	1.54	0.89
1:f:246:PRO:O	1:f:249:THR:HG21	1.69	0.89
1:g:225:ASP:HB2	1:g:226:ARG:HB2	1.54	0.89
1:i:225:ASP:HB2	1:i:226:ARG:HB2	1.54	0.89
1:n:98:ASN:HA	1:p:323:SER:OG	1.72	0.89
1:u:323:SER:OG	1:v:98:ASN:HA	1.72	0.89
1:w:98:ASN:HA	1:x:323:SER:OG	1.72	0.89
1:z:316:ARG:HH22	1:6:98:ASN:HB3	1.08	0.89
1:B:98:ASN:HB3	1:L:316:ARG:HH22	1.08	0.89
1:C:34:VAL:HG22	1:D:36:HIS:NE2	1.86	0.89
1:F:37:SER:N	1:G:257:ARG:HD2	1.85	0.89
1:R:98:ASN:HB3	1:U:316:ARG:HH22	1.08	0.89
1:S:36:HIS:NE2	1:3:34:VAL:HG22	1.86	0.89
1:U:225:ASP:HB2	1:U:226:ARG:HB2	1.54	0.89
1:c:98:ASN:HA	1:e:323:SER:OG	1.72	0.89
1:l:323:SER:OG	1:m:98:ASN:HA	1.72	0.89
1:t:257:ARG:HD2	1:x:37:SER:HA	0.90	0.89
1:A:257:ARG:CG	1:B:37:SER:N	2.36	0.89
1:D:257:ARG:HD2	1:E:37:SER:N	1.84	0.89
1:H:37:SER:N	1:I:257:ARG:HD2	1.85	0.89
1:V:257:ARG:HD2	1:W:37:SER:HA	0.90	0.89
1:3:246:PRO:O	1:3:249:THR:HG21	1.69	0.89
1:4:37:SER:CB	1:b:257:ARG:HG2	2.02	0.89
1:5:225:ASP:HB2	1:5:226:ARG:HB2	1.54	0.89
1:g:37:SER:HA	1:m:257:ARG:HD2	0.90	0.89
1:u:225:ASP:HB2	1:u:226:ARG:HB2	1.54	0.89
1:6:225:ASP:HB2	1:6:226:ARG:HB2	1.54	0.89
1:E:323:SER:OG	1:Q:98:ASN:HA	1.72	0.89
1:H:34:VAL:HG22	1:Z:36:HIS:NE2	1.86	0.89
1:K:34:VAL:HG22	1:6:36:HIS:NE2	1.85	0.89
1:L:96:THR:OG1	1:L:342:TYR:OH	1.83	0.89
1:N:37:SER:HA	1:g:257:ARG:HD2	0.90	0.89
1:O:257:ARG:HD2	1:3:37:SER:HA	0.91	0.89
1:O:316:ARG:HH22	1:g:98:ASN:HB3	1.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:98:ASN:HA	1:U:323:SER:OG	1.72	0.89
1:3:323:SER:OG	1:f:98:ASN:HA	1.72	0.89
1:e:34:VAL:HG22	1:q:36:HIS:NE2	1.86	0.89
1:g:323:SER:OG	1:h:98:ASN:HA	1.72	0.89
1:i:246:PRO:O	1:i:249:THR:HG21	1.69	0.89
1:n:37:SER:HA	1:z:257:ARG:HD2	0.90	0.89
1:p:225:ASP:HB2	1:p:226:ARG:HB2	1.54	0.89
1:w:37:SER:HA	1:7:257:ARG:HD2	0.90	0.89
1:y:98:ASN:HA	1:6:323:SER:OG	1.72	0.89
1:A:225:ASP:HB2	1:A:226:ARG:HB2	1.54	0.89
1:A:246:PRO:O	1:A:249:THR:HG21	1.69	0.89
1:B:225:ASP:HB2	1:B:226:ARG:HB2	1.54	0.89
1:C:257:ARG:HD2	1:D:37:SER:HA	0.91	0.89
1:N:36:HIS:NE2	1:g:34:VAL:HG22	1.86	0.89
1:O:36:HIS:NE2	1:P:34:VAL:HG22	1.85	0.89
1:X:36:HIS:NE2	1:Y:34:VAL:HG22	1.86	0.89
1:1:36:HIS:NE2	1:i:34:VAL:HG22	1.85	0.89
1:d:257:ARG:HG2	1:f:37:SER:HG	1.12	0.89
1:d:323:SER:OG	1:e:98:ASN:HA	1.72	0.89
1:f:225:ASP:HB2	1:f:226:ARG:HB2	1.54	0.89
1:h:257:ARG:HD2	1:l:37:SER:HA	0.90	0.89
1:j:34:VAL:HG22	1:z:36:HIS:NE2	1.86	0.89
1:n:257:ARG:HG2	1:s:37:SER:HG	1.10	0.89
1:o:37:SER:N	1:v:257:ARG:HD2	1.85	0.89
1:C:98:ASN:HA	1:M:323:SER:OG	1.72	0.89
1:C:323:SER:OG	1:1:98:ASN:HA	1.72	0.89
1:E:225:ASP:HB2	1:E:226:ARG:HB2	1.54	0.89
1:J:323:SER:OG	1:L:98:ASN:HA	1.72	0.89
1:Q:37:SER:HA	1:S:257:ARG:HD2	0.90	0.89
1:S:37:SER:HA	1:3:257:ARG:HD2	0.90	0.89
1:2:98:ASN:HA	1:j:323:SER:OG	1.72	0.89
1:2:316:ARG:HH22	1:i:98:ASN:HB3	1.08	0.89
1:a:225:ASP:HB2	1:a:226:ARG:HB2	1.55	0.89
1:b:96:THR:OG1	1:b:342:TYR:OH	1.83	0.89
1:j:37:SER:HA	1:k:257:ARG:HD2	0.90	0.89
1:t:323:SER:OG	1:u:98:ASN:HA	1.72	0.89
1:D:257:ARG:HD2	1:E:37:SER:HA	0.90	0.89
1:H:225:ASP:HB2	1:H:226:ARG:HB2	1.54	0.89
1:Z:34:VAL:HG22	1:0:36:HIS:NE2	1.86	0.89
1:2:225:ASP:HB2	1:2:226:ARG:HB2	1.55	0.89
1:e:257:ARG:HD2	1:q:37:SER:HA	0.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:34:VAL:HG22	1:h:36:HIS:NE2	1.86	0.89
1:i:316:ARG:HH22	1:j:98:ASN:HB3	1.08	0.89
1:k:316:ARG:HH22	1:l:98:ASN:HB3	1.08	0.89
1:u:246:PRO:O	1:u:249:THR:HG21	1.69	0.89
1:A:98:ASN:HA	1:I:323:SER:OG	1.72	0.88
1:B:323:SER:OG	1:J:98:ASN:HA	1.73	0.88
1:I:36:HIS:NE2	1:J:34:VAL:HG22	1.86	0.88
1:N:225:ASP:HB2	1:N:226:ARG:HB2	1.54	0.88
1:O:98:ASN:HA	1:h:323:SER:OG	1.72	0.88
1:e:225:ASP:HB2	1:e:226:ARG:HB2	1.54	0.88
1:f:257:ARG:HD2	1:h:37:SER:HA	0.90	0.88
1:o:257:ARG:CG	1:y:37:SER:N	2.37	0.88
1:p:37:SER:HA	1:q:257:ARG:HD2	0.89	0.88
1:x:225:ASP:HB2	1:x:226:ARG:HB2	1.54	0.88
1:C:225:ASP:HB2	1:C:226:ARG:HB2	1.54	0.88
1:F:257:ARG:CG	1:R:37:SER:N	2.37	0.88
1:N:323:SER:OG	1:P:98:ASN:HA	1.72	0.88
1:W:323:SER:OG	1:Y:98:ASN:HA	1.72	0.88
1:Y:37:SER:N	1:x:257:ARG:CG	2.37	0.88
1:2:257:ARG:HD2	1:m:37:SER:HA	0.90	0.88
1:k:98:ASN:HA	1:m:323:SER:OG	1.73	0.88
1:r:225:ASP:HB2	1:r:226:ARG:HB2	1.54	0.88
1:r:323:SER:OG	1:s:98:ASN:HA	1.72	0.88
1:G:316:ARG:HH22	1:I:98:ASN:HB3	1.08	0.88
1:H:257:ARG:CG	1:Z:37:SER:N	2.37	0.88
1:L:36:HIS:NE2	1:1:34:VAL:HG22	1.86	0.88
1:L:37:SER:N	1:1:257:ARG:CG	2.37	0.88
1:P:37:SER:HA	1:Q:257:ARG:HD2	0.91	0.88
1:S:225:ASP:HB2	1:S:226:ARG:HB2	1.54	0.88
1:T:316:ARG:HH22	1:3:98:ASN:HB3	1.08	0.88
1:U:36:HIS:NE2	1:4:34:VAL:HG22	1.85	0.88
1:U:37:SER:N	1:4:257:ARG:CG	2.37	0.88
1:X:257:ARG:HG2	1:5:37:SER:HG	1.09	0.88
1:d:37:SER:HA	1:r:257:ARG:HD2	0.90	0.88
1:z:225:ASP:HB2	1:z:226:ARG:HB2	1.54	0.88
1:F:98:ASN:HA	1:Q:323:SER:OG	1.72	0.88
1:K:257:ARG:CG	1:6:37:SER:N	2.37	0.88
1:M:37:SER:HA	1:N:257:ARG:HD2	0.89	0.88
1:Y:37:SER:N	1:x:257:ARG:HD2	1.85	0.88
1:Z:98:ASN:HA	1:w:323:SER:OG	1.72	0.88
1:5:98:ASN:HA	1:a:323:SER:OG	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:257:ARG:HD2	1:t:37:SER:HA	0.91	0.88
1:5:257:ARG:CG	1:t:37:SER:N	2.36	0.88
1:h:96:THR:OG1	1:h:342:TYR:OH	1.82	0.88
1:i:37:SER:N	1:6:257:ARG:HD2	1.85	0.88
1:k:36:HIS:NE2	1:s:34:VAL:HG22	1.85	0.88
1:k:98:ASN:CB	1:m:316:ARG:HH21	1.78	0.88
1:l:34:VAL:HG22	1:r:36:HIS:NE2	1.86	0.88
1:l:316:ARG:HH21	1:m:98:ASN:CB	1.78	0.88
1:m:246:PRO:O	1:m:249:THR:HG21	1.69	0.88
1:n:257:ARG:HD2	1:s:37:SER:HA	0.91	0.88
1:n:323:SER:OG	1:o:98:ASN:HA	1.72	0.88
1:7:225:ASP:HB2	1:7:226:ARG:HB2	1.54	0.88
1:O:37:SER:N	1:P:257:ARG:CG	2.37	0.88
1:T:98:ASN:HB3	1:f:316:ARG:HH22	1.08	0.88
1:V:225:ASP:HB2	1:V:226:ARG:HB2	1.54	0.88
1:W:316:ARG:HH22	1:Y:98:ASN:HB3	1.08	0.88
1:b:36:HIS:NE2	1:c:34:VAL:HG22	1.86	0.88
1:g:316:ARG:HH21	1:h:98:ASN:CB	1.78	0.88
1:h:257:ARG:CG	1:l:37:SER:N	2.37	0.88
1:k:37:SER:N	1:s:257:ARG:CG	2.37	0.88
1:t:98:ASN:HB3	1:v:316:ARG:HH22	1.08	0.88
1:v:36:HIS:NE2	1:w:34:VAL:HG22	1.86	0.88
1:G:225:ASP:HB2	1:G:226:ARG:HB2	1.54	0.88
1:I:37:SER:HA	1:J:257:ARG:HD2	0.90	0.88
1:O:98:ASN:CB	1:h:316:ARG:HH21	1.78	0.88
1:O:316:ARG:HH21	1:g:98:ASN:CB	1.78	0.88
1:5:34:VAL:HG22	1:t:36:HIS:NE2	1.87	0.88
1:d:316:ARG:HH22	1:e:98:ASN:HB3	1.08	0.88
1:i:37:SER:N	1:6:257:ARG:CG	2.37	0.88
1:n:37:SER:HG	1:z:257:ARG:HG2	1.10	0.88
1:v:225:ASP:HB2	1:v:226:ARG:HB2	1.54	0.88
1:B:98:ASN:HA	1:L:323:SER:OG	1.72	0.88
1:B:257:ARG:HD2	1:C:37:SER:HA	0.90	0.88
1:C:316:ARG:HH22	1:1:98:ASN:HB3	1.08	0.88
1:J:37:SER:N	1:0:257:ARG:CG	2.37	0.88
1:K:36:HIS:NE2	1:L:34:VAL:HG22	1.86	0.88
1:O:257:ARG:CG	1:3:37:SER:N	2.37	0.88
1:P:225:ASP:HB2	1:P:226:ARG:HB2	1.54	0.88
1:S:37:SER:HG	1:3:257:ARG:HG2	1.11	0.88
1:S:323:SER:OG	1:U:98:ASN:HA	1.73	0.88
1:T:37:SER:N	1:U:257:ARG:CG	2.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:96:THR:OG1	1:T:342:TYR:OH	1.83	0.88
1:V:323:SER:OG	1:4:98:ASN:HA	1.72	0.88
1:Z:323:SER:OG	1:x:98:ASN:HA	1.72	0.88
1:g:37:SER:N	1:m:257:ARG:CG	2.37	0.88
1:h:246:PRO:O	1:h:249:THR:HG21	1.69	0.88
1:t:96:THR:OG1	1:t:342:TYR:OH	1.82	0.88
1:y:225:ASP:HB2	1:y:226:ARG:HB2	1.54	0.88
1:A:37:SER:N	1:E:257:ARG:HD2	1.87	0.88
1:G:36:HIS:NE2	1:W:34:VAL:HG22	1.86	0.88
1:I:37:SER:N	1:J:257:ARG:CG	2.37	0.88
1:M:34:VAL:HG22	1:2:36:HIS:NE2	1.86	0.88
1:M:225:ASP:HB2	1:M:226:ARG:HB2	1.54	0.88
1:N:37:SER:N	1:g:257:ARG:CG	2.37	0.88
1:X:225:ASP:HB2	1:X:226:ARG:HB2	1.54	0.88
1:j:37:SER:N	1:k:257:ARG:CG	2.37	0.88
1:s:225:ASP:HB2	1:s:226:ARG:HB2	1.54	0.88
1:D:257:ARG:CG	1:E:37:SER:N	2.37	0.88
1:H:98:ASN:HA	1:Y:323:SER:OG	1.72	0.88
1:I:96:THR:OG1	1:I:342:TYR:OH	1.83	0.88
1:R:225:ASP:HB2	1:R:226:ARG:HB2	1.54	0.88
1:Z:98:ASN:HB3	1:w:316:ARG:HH22	1.08	0.88
1:0:225:ASP:HB2	1:0:226:ARG:HB2	1.54	0.88
1:d:34:VAL:HG22	1:f:36:HIS:NE2	1.86	0.88
1:i:37:SER:HA	1:6:257:ARG:HD2	0.90	0.88
1:k:37:SER:HA	1:s:257:ARG:HD2	0.90	0.88
1:k:316:ARG:HH21	1:l:98:ASN:CB	1.78	0.88
1:p:37:SER:N	1:q:257:ARG:CG	2.37	0.88
1:w:37:SER:N	1:7:257:ARG:CG	2.37	0.88
1:C:98:ASN:HB3	1:M:316:ARG:HH22	1.08	0.88
1:H:257:ARG:HD2	1:Z:37:SER:N	1.85	0.88
1:K:98:ASN:HA	1:7:323:SER:OG	1.72	0.88
1:T:37:SER:HA	1:U:257:ARG:HD2	0.90	0.88
1:V:257:ARG:CG	1:W:37:SER:N	2.37	0.88
1:X:257:ARG:CG	1:5:37:SER:N	2.37	0.88
1:1:37:SER:HA	1:i:257:ARG:HD2	0.90	0.88
1:d:225:ASP:HB2	1:d:226:ARG:HB2	1.54	0.88
1:i:96:THR:OG1	1:i:342:TYR:OH	1.83	0.88
1:z:323:SER:OG	1:6:98:ASN:HA	1.73	0.88
1:A:36:HIS:NE2	1:E:34:VAL:HG22	1.89	0.87
1:G:323:SER:OG	1:I:98:ASN:HA	1.72	0.87
1:I:37:SER:HG	1:J:257:ARG:HG2	1.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:225:ASP:HB2	1:O:226:ARG:HB2	1.54	0.87
1:O:323:SER:OG	1:g:98:ASN:HA	1.72	0.87
1:Y:225:ASP:HB2	1:Y:226:ARG:HB2	1.54	0.87
1:a:257:ARG:HD2	1:e:37:SER:HA	0.89	0.87
1:i:36:HIS:NE2	1:6:34:VAL:HG22	1.86	0.87
1:l:257:ARG:HG2	1:r:37:SER:HG	1.06	0.87
1:l:257:ARG:CG	1:r:37:SER:N	2.38	0.87
1:t:257:ARG:HG2	1:x:37:SER:HG	1.05	0.87
1:A:257:ARG:HD2	1:B:37:SER:HA	0.89	0.87
1:D:323:SER:OG	1:N:98:ASN:HA	1.72	0.87
1:K:257:ARG:HG2	1:6:37:SER:HG	1.07	0.87
1:c:98:ASN:HB3	1:e:316:ARG:HH22	1.08	0.87
1:k:323:SER:OG	1:l:98:ASN:HA	1.72	0.87
1:n:37:SER:N	1:z:257:ARG:CG	2.37	0.87
1:n:257:ARG:CG	1:s:37:SER:N	2.38	0.87
1:o:316:ARG:HH22	1:p:98:ASN:HB3	1.08	0.87
1:t:98:ASN:HA	1:v:323:SER:OG	1.72	0.87
1:t:257:ARG:CG	1:x:37:SER:N	2.37	0.87
1:y:98:ASN:CB	1:6:316:ARG:HH21	1.78	0.87
1:H:37:SER:N	1:I:257:ARG:CG	2.37	0.87
1:K:225:ASP:HB2	1:K:226:ARG:HB2	1.54	0.87
1:M:257:ARG:CG	1:2:37:SER:N	2.37	0.87
1:P:37:SER:N	1:Q:257:ARG:CG	2.38	0.87
1:Q:37:SER:N	1:S:257:ARG:CG	2.37	0.87
1:X:98:ASN:CB	1:4:316:ARG:HH21	1.78	0.87
1:Z:257:ARG:CG	1:0:37:SER:N	2.38	0.87
1:d:257:ARG:CG	1:f:37:SER:N	2.37	0.87
1:q:323:SER:OG	1:r:98:ASN:HA	1.72	0.87
1:t:34:VAL:HG22	1:x:36:HIS:NE2	1.86	0.87
1:B:316:ARG:HH21	1:J:98:ASN:CB	1.78	0.87
1:F:37:SER:N	1:G:257:ARG:CG	2.37	0.87
1:F:98:ASN:HB3	1:Q:316:ARG:HH22	1.08	0.87
1:M:37:SER:N	1:N:257:ARG:CG	2.37	0.87
1:T:36:HIS:NE2	1:U:34:VAL:HG22	1.86	0.87
1:T:257:ARG:HD2	1:c:37:SER:HA	0.89	0.87
1:T:257:ARG:CG	1:c:37:SER:N	2.37	0.87
1:W:316:ARG:HH21	1:Y:98:ASN:CB	1.78	0.87
1:X:37:SER:N	1:Y:257:ARG:CG	2.38	0.87
1:Z:98:ASN:CB	1:w:316:ARG:HH21	1.78	0.87
1:Z:225:ASP:HB2	1:Z:226:ARG:HB2	1.54	0.87
1:b:35:GLY:O	1:c:257:ARG:NH1	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:225:ASP:HB2	1:k:226:ARG:HB2	1.54	0.87
1:n:316:ARG:HH22	1:o:98:ASN:HB3	1.08	0.87
1:o:37:SER:N	1:v:257:ARG:CG	2.37	0.87
1:p:257:ARG:CG	1:u:37:SER:N	2.37	0.87
1:R:98:ASN:CB	1:U:316:ARG:HH21	1.78	0.87
1:d:37:SER:N	1:r:257:ARG:CG	2.37	0.87
1:f:257:ARG:CG	1:h:37:SER:N	2.37	0.87
1:r:316:ARG:HH22	1:s:98:ASN:HB3	1.08	0.87
1:H:36:HIS:NE2	1:I:34:VAL:HG22	1.86	0.87
1:O:37:SER:HA	1:P:257:ARG:HD2	0.89	0.87
1:R:96:THR:OG1	1:R:342:TYR:OH	1.83	0.87
1:S:37:SER:N	1:3:257:ARG:CG	2.37	0.87
1:1:37:SER:N	1:i:257:ARG:CG	2.37	0.87
1:j:257:ARG:HD2	1:z:37:SER:HA	0.90	0.87
1:n:36:HIS:NE2	1:z:34:VAL:HG22	1.86	0.87
1:v:37:SER:N	1:w:257:ARG:CG	2.37	0.87
1:G:37:SER:N	1:W:257:ARG:CG	2.37	0.87
1:K:316:ARG:HH21	1:0:98:ASN:CB	1.78	0.87
1:M:37:SER:HG	1:N:257:ARG:HG2	1.05	0.87
1:Q:36:HIS:NE2	1:S:34:VAL:HG22	1.85	0.87
1:Q:96:THR:OG1	1:Q:342:TYR:OH	1.83	0.87
1:4:36:HIS:NE2	1:b:34:VAL:HG22	1.89	0.87
1:j:257:ARG:CG	1:z:37:SER:N	2.37	0.87
1:o:225:ASP:HB2	1:o:226:ARG:HB2	1.54	0.87
1:E:98:ASN:HB3	1:F:316:ARG:HH22	1.08	0.87
1:F:225:ASP:HB2	1:F:226:ARG:HB2	1.54	0.87
1:J:37:SER:HA	1:0:257:ARG:HD2	0.90	0.87
1:2:257:ARG:CG	1:m:37:SER:N	2.37	0.87
1:4:225:ASP:HB2	1:4:226:ARG:HB2	1.54	0.87
1:5:98:ASN:CB	1:a:316:ARG:HH21	1.78	0.87
1:n:96:THR:OG1	1:n:342:TYR:OH	1.82	0.87
1:M:98:ASN:HA	1:1:323:SER:OG	1.73	0.87
1:N:316:ARG:HH22	1:P:98:ASN:HB3	1.08	0.87
1:a:37:SER:HA	1:u:257:ARG:HD2	0.89	0.87
1:a:37:SER:N	1:u:257:ARG:CG	2.38	0.87
1:c:323:SER:OG	1:d:98:ASN:HA	1.73	0.87
1:n:225:ASP:HB2	1:n:226:ARG:HB2	1.54	0.87
1:B:257:ARG:CG	1:C:37:SER:N	2.37	0.86
1:3:225:ASP:HB2	1:3:226:ARG:HB2	1.54	0.86
1:l:257:ARG:HD2	1:r:37:SER:N	1.85	0.86
1:r:316:ARG:HH21	1:s:98:ASN:CB	1.78	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:37:SER:N	1:g:257:ARG:HD2	1.85	0.86
1:O:257:ARG:HG2	1:3:37:SER:HG	1.06	0.86
1:Q:225:ASP:HB2	1:Q:226:ARG:HB2	1.54	0.86
1:Z:316:ARG:HH22	1:x:98:ASN:HB3	1.08	0.86
1:h:225:ASP:HB2	1:h:226:ARG:HB2	1.54	0.86
1:H:98:ASN:HB3	1:Y:316:ARG:HH22	1.08	0.86
1:H:98:ASN:CB	1:Y:316:ARG:HH21	1.78	0.86
1:a:257:ARG:CG	1:e:37:SER:N	2.37	0.86
1:j:225:ASP:HB2	1:j:226:ARG:HB2	1.54	0.86
1:t:316:ARG:HH22	1:u:98:ASN:HB3	1.08	0.86
1:y:96:THR:OG1	1:y:342:TYR:OH	1.83	0.86
1:R:316:ARG:HH22	1:S:98:ASN:HB3	1.08	0.86
1:5:316:ARG:HH21	1:b:98:ASN:CB	1.82	0.86
1:e:257:ARG:CG	1:q:37:SER:N	2.38	0.86
1:J:37:SER:HG	1:0:257:ARG:HG2	1.05	0.86
1:N:37:SER:HG	1:g:257:ARG:HG2	1.04	0.86
1:O:98:ASN:HB3	1:h:316:ARG:HH22	1.08	0.86
1:Z:316:ARG:HH21	1:x:98:ASN:CB	1.78	0.86
1:a:98:ASN:CB	1:b:316:ARG:HH21	1.86	0.86
1:a:221:ILE:HG22	1:b:429:ARG:CD	2.05	0.86
1:m:225:ASP:HB2	1:m:226:ARG:HB2	1.54	0.86
1:y:316:ARG:HH22	1:z:98:ASN:HB3	1.08	0.86
1:C:257:ARG:CG	1:D:37:SER:N	2.38	0.86
1:a:96:THR:OG1	1:a:342:TYR:OH	1.82	0.86
1:k:98:ASN:HB3	1:m:316:ARG:HH22	1.08	0.86
1:q:225:ASP:HB2	1:q:226:ARG:HB2	1.54	0.86
1:K:37:SER:N	1:L:257:ARG:CG	2.38	0.86
1:N:316:ARG:HH21	1:P:98:ASN:CB	1.78	0.86
1:R:257:ARG:HG2	1:V:37:SER:HG	1.08	0.86
1:A:257:ARG:NH1	1:B:35:GLY:O	2.08	0.86
1:B:96:THR:OG1	1:B:342:TYR:OH	1.83	0.86
1:K:316:ARG:HH22	1:0:98:ASN:HB3	1.08	0.86
1:W:225:ASP:HB2	1:W:226:ARG:HB2	1.54	0.86
1:o:257:ARG:HG2	1:y:37:SER:HG	1.05	0.86
1:y:257:ARG:CG	1:7:37:SER:N	2.38	0.86
1:b:36:HIS:C	1:c:257:ARG:CD	2.48	0.86
1:e:96:THR:OG1	1:e:342:TYR:OH	1.83	0.86
1:w:225:ASP:HB2	1:w:226:ARG:HB2	1.54	0.86
1:A:98:ASN:HB3	1:I:316:ARG:HH22	1.07	0.86
1:I:225:ASP:HB2	1:I:226:ARG:HB2	1.54	0.86
1:R:257:ARG:CG	1:V:37:SER:N	2.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:257:ARG:HD2	1:5:37:SER:HA	0.88	0.86
1:D:225:ASP:HB2	1:D:226:ARG:HB2	1.54	0.85
1:v:37:SER:HG	1:w:257:ARG:HG2	1.05	0.85
1:y:257:ARG:HG2	1:7:37:SER:HG	1.08	0.85
1:C:96:THR:OG1	1:C:342:TYR:OH	1.83	0.85
1:H:316:ARG:HH22	1:W:98:ASN:HB3	1.08	0.85
1:P:96:THR:OG1	1:P:342:TYR:OH	1.83	0.85
1:X:98:ASN:HB3	1:4:316:ARG:HH22	1.08	0.85
1:Z:257:ARG:HG2	1:0:37:SER:HG	1.09	0.85
1:a:98:ASN:HA	1:b:323:SER:OG	1.76	0.85
1:j:37:SER:HG	1:k:257:ARG:HG2	1.05	0.85
1:b:37:SER:CA	1:c:257:ARG:CG	2.53	0.85
1:t:225:ASP:HB2	1:t:226:ARG:HB2	1.54	0.85
1:E:316:ARG:HH22	1:Q:98:ASN:HB3	1.07	0.85
1:B:316:ARG:HH22	1:J:98:ASN:HB3	1.08	0.85
1:w:98:ASN:HB3	1:x:316:ARG:HH22	1.08	0.85
1:s:96:THR:OG1	1:s:342:TYR:OH	1.82	0.85
1:J:316:ARG:HH22	1:L:98:ASN:HB3	1.08	0.85
1:v:96:THR:OG1	1:v:342:TYR:OH	1.82	0.85
1:5:98:ASN:HB3	1:a:316:ARG:HH22	1.07	0.85
1:b:37:SER:HG	1:c:257:ARG:HG2	1.02	0.85
1:k:35:GLY:O	1:s:257:ARG:NH1	2.10	0.85
1:A:37:SER:N	1:E:257:ARG:CG	2.39	0.85
1:A:84:LEU:HD12	1:I:319:PRO:HD3	1.59	0.85
1:b:37:SER:N	1:c:257:ARG:HG3	1.91	0.85
1:n:98:ASN:HB3	1:p:316:ARG:HH22	1.08	0.85
1:A:319:PRO:HD3	1:G:84:LEU:HD12	1.59	0.85
1:J:35:GLY:O	1:0:257:ARG:NH1	2.10	0.85
1:K:37:SER:HG	1:L:257:ARG:HG2	1.04	0.85
1:M:35:GLY:O	1:N:257:ARG:NH1	2.10	0.85
1:Y:37:SER:HG	1:x:257:ARG:HG2	1.03	0.85
1:O:35:GLY:O	1:P:257:ARG:NH1	2.10	0.84
1:d:35:GLY:O	1:r:257:ARG:NH1	2.10	0.84
1:h:257:ARG:NH1	1:l:35:GLY:O	2.10	0.84
1:J:133:CYS:HA	1:J:522:LEU:HA	1.60	0.84
1:T:257:ARG:NH1	1:c:35:GLY:O	2.10	0.84
1:l:133:CYS:HA	1:l:522:LEU:HA	1.60	0.84
1:K:257:ARG:NH1	1:6:35:GLY:O	2.10	0.84
1:K:319:PRO:HD3	1:0:84:LEU:HD12	1.59	0.84
1:b:37:SER:OG	1:c:257:ARG:N	2.09	0.84
1:g:133:CYS:HA	1:g:522:LEU:HA	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:ARG:NH1	1:C:35:GLY:O	2.11	0.84
1:D:257:ARG:NH1	1:E:35:GLY:O	2.10	0.84
1:T:133:CYS:HA	1:T:522:LEU:HA	1.60	0.84
1:U:35:GLY:O	1:4:257:ARG:NH1	2.10	0.84
1:1:133:CYS:HA	1:1:522:LEU:HA	1.60	0.84
1:i:133:CYS:HA	1:i:522:LEU:HA	1.60	0.84
1:K:84:LEU:HD12	1:7:319:PRO:HD3	1.60	0.84
1:5:133:CYS:HA	1:5:522:LEU:HA	1.60	0.84
1:p:35:GLY:O	1:q:257:ARG:NH1	2.10	0.84
1:C:84:LEU:HD12	1:M:319:PRO:HD3	1.60	0.84
1:1:35:GLY:O	1:i:257:ARG:NH1	2.11	0.84
1:c:133:CYS:HA	1:c:522:LEU:HA	1.60	0.84
1:g:35:GLY:O	1:m:257:ARG:NH1	2.11	0.84
1:t:319:PRO:HD3	1:u:84:LEU:HD12	1.60	0.84
1:w:35:GLY:O	1:7:257:ARG:NH1	2.10	0.84
1:H:35:GLY:O	1:I:257:ARG:NH1	2.11	0.84
1:M:84:LEU:HD12	1:1:319:PRO:HD3	1.60	0.84
1:V:319:PRO:HD3	1:4:84:LEU:HD12	1.60	0.84
1:X:84:LEU:HD12	1:4:319:PRO:HD3	1.60	0.84
1:X:257:ARG:NH1	1:5:35:GLY:O	2.11	0.84
1:4:37:SER:N	1:b:257:ARG:CG	2.40	0.84
1:c:319:PRO:HD3	1:d:84:LEU:HD12	1.60	0.84
1:t:257:ARG:NH1	1:x:35:GLY:O	2.11	0.84
1:V:257:ARG:NH1	1:W:35:GLY:O	2.10	0.84
1:u:319:PRO:HD3	1:v:84:LEU:HD12	1.60	0.84
1:B:84:LEU:HD12	1:L:319:PRO:HD3	1.59	0.84
1:E:98:ASN:CB	1:F:316:ARG:HH21	1.78	0.84
1:E:319:PRO:HD3	1:Q:84:LEU:HD12	1.60	0.84
1:F:96:THR:OG1	1:F:342:TYR:OH	1.83	0.84
1:K:133:CYS:HA	1:K:522:LEU:HA	1.60	0.84
1:O:37:SER:HG	1:P:257:ARG:HG2	1.04	0.84
1:d:319:PRO:HD3	1:e:84:LEU:HD12	1.60	0.84
1:n:84:LEU:HD12	1:p:319:PRO:HD3	1.60	0.84
1:o:96:THR:OG1	1:o:342:TYR:OH	1.82	0.84
1:C:133:CYS:HA	1:C:522:LEU:HA	1.60	0.84
1:H:257:ARG:HG2	1:Z:37:SER:HG	1.01	0.84
1:U:37:SER:HG	1:4:257:ARG:HG2	1.03	0.84
1:2:257:ARG:NH1	1:m:35:GLY:O	2.11	0.84
1:4:133:CYS:HA	1:4:522:LEU:HA	1.60	0.84
1:d:257:ARG:NH1	1:f:35:GLY:O	2.11	0.84
1:e:133:CYS:HA	1:e:522:LEU:HA	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:257:ARG:NH1	1:h:35:GLY:O	2.11	0.84
1:o:316:ARG:HH21	1:p:98:ASN:CB	1.78	0.84
1:V:98:ASN:HB3	1:X:316:ARG:HH22	1.08	0.83
1:D:257:ARG:HG2	1:E:37:SER:HG	1.01	0.83
1:M:133:CYS:HA	1:M:522:LEU:HA	1.60	0.83
1:M:257:ARG:NH1	1:2:35:GLY:O	2.11	0.83
1:S:319:PRO:HD3	1:U:84:LEU:HD12	1.60	0.83
1:U:133:CYS:HA	1:U:522:LEU:HA	1.60	0.83
1:Y:133:CYS:HA	1:Y:522:LEU:HA	1.59	0.83
1:a:257:ARG:NH1	1:e:35:GLY:O	2.11	0.83
1:6:93:GLY:O	1:6:96:THR:CG2	2.26	0.83
1:W:133:CYS:HA	1:W:522:LEU:HA	1.60	0.83
1:d:133:CYS:HA	1:d:522:LEU:HA	1.60	0.83
1:w:133:CYS:HA	1:w:522:LEU:HA	1.60	0.83
1:z:319:PRO:HD3	1:6:84:LEU:HD12	1.60	0.83
1:6:133:CYS:HA	1:6:522:LEU:HA	1.60	0.83
1:E:133:CYS:HA	1:E:522:LEU:HA	1.60	0.83
1:o:257:ARG:NH1	1:y:35:GLY:O	2.10	0.83
1:p:37:SER:HG	1:q:257:ARG:HG2	1.01	0.83
1:p:133:CYS:HA	1:p:522:LEU:HA	1.60	0.83
1:y:300:GLY:HA2	1:y:301:GLN:HB3	1.61	0.83
1:C:319:PRO:HD3	1:1:84:LEU:HD12	1.60	0.83
1:N:35:GLY:O	1:g:257:ARG:NH1	2.11	0.83
1:R:300:GLY:HA2	1:R:301:GLN:HB3	1.61	0.83
1:Z:133:CYS:HA	1:Z:522:LEU:HA	1.60	0.83
1:a:35:GLY:O	1:u:257:ARG:NH1	2.11	0.83
1:n:133:CYS:HA	1:n:522:LEU:HA	1.60	0.83
1:Q:133:CYS:HA	1:Q:522:LEU:HA	1.60	0.83
1:0:316:ARG:HH22	1:7:98:ASN:HB3	1.08	0.83
1:b:133:CYS:HA	1:b:522:LEU:HA	1.60	0.83
1:c:84:LEU:HD12	1:e:319:PRO:HD3	1.59	0.83
1:j:300:GLY:HA2	1:j:301:GLN:HB3	1.61	0.83
1:j:498:GLY:O	1:j:502:SER:CB	2.24	0.83
1:r:300:GLY:HA2	1:r:301:GLN:HB3	1.61	0.83
1:L:133:CYS:HA	1:L:522:LEU:HA	1.60	0.83
1:L:300:GLY:HA2	1:L:301:GLN:HB3	1.61	0.83
1:X:133:CYS:HA	1:X:522:LEU:HA	1.60	0.83
1:3:300:GLY:HA2	1:3:301:GLN:HB3	1.61	0.83
1:r:498:GLY:O	1:r:502:SER:CB	2.24	0.83
1:A:37:SER:HG	1:E:257:ARG:HG2	1.02	0.83
1:C:93:GLY:O	1:C:96:THR:CG2	2.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:498:GLY:O	1:J:502:SER:CB	2.24	0.83
1:K:35:GLY:O	1:L:257:ARG:NH1	2.11	0.83
1:M:300:GLY:HA2	1:M:301:GLN:HB3	1.61	0.83
1:N:300:GLY:HA2	1:N:301:GLN:HB3	1.61	0.83
1:X:35:GLY:O	1:Y:257:ARG:NH1	2.11	0.83
1:Y:93:GLY:O	1:Y:96:THR:CG2	2.26	0.83
1:Z:93:GLY:O	1:Z:96:THR:CG2	2.26	0.83
1:3:498:GLY:O	1:3:502:SER:CB	2.24	0.83
1:5:498:GLY:O	1:5:502:SER:CB	2.24	0.83
1:e:93:GLY:O	1:e:96:THR:CG2	2.26	0.83
1:q:133:CYS:HA	1:q:522:LEU:HA	1.60	0.83
1:z:96:THR:OG1	1:z:342:TYR:OH	1.83	0.83
1:C:257:ARG:HG2	1:D:37:SER:HG	1.03	0.83
1:G:35:GLY:O	1:W:257:ARG:NH1	2.11	0.83
1:H:93:GLY:O	1:H:96:THR:CG2	2.26	0.83
1:O:84:LEU:HD12	1:h:319:PRO:HD3	1.60	0.83
1:P:300:GLY:HA2	1:P:301:GLN:HB3	1.61	0.83
1:T:300:GLY:HA2	1:T:301:GLN:HB3	1.61	0.83
1:V:84:LEU:HD12	1:X:319:PRO:HD3	1.60	0.83
1:Z:257:ARG:NH1	1:0:35:GLY:O	2.11	0.83
1:0:133:CYS:HA	1:0:522:LEU:HA	1.60	0.83
1:d:300:GLY:HA2	1:d:301:GLN:HB3	1.61	0.83
1:t:84:LEU:HD12	1:v:319:PRO:HD3	1.60	0.83
1:F:93:GLY:O	1:F:96:THR:CG2	2.26	0.83
1:G:319:PRO:HD3	1:I:84:LEU:HD12	1.60	0.83
1:M:335:TRP:CD1	1:M:336:PRO:HD2	2.14	0.83
1:R:84:LEU:HD12	1:U:319:PRO:HD3	1.60	0.83
1:S:96:THR:OG1	1:S:342:TYR:OH	1.83	0.83
1:0:319:PRO:HD3	1:7:84:LEU:HD12	1.59	0.83
1:2:133:CYS:HA	1:2:522:LEU:HA	1.60	0.83
1:4:300:GLY:HA2	1:4:301:GLN:HB3	1.61	0.83
1:b:300:GLY:HA2	1:b:301:GLN:HB3	1.61	0.83
1:e:257:ARG:HG2	1:q:37:SER:HG	1.03	0.83
1:i:300:GLY:HA2	1:i:301:GLN:HB3	1.61	0.83
1:k:319:PRO:HD3	1:l:84:LEU:HD12	1.60	0.83
1:o:93:GLY:O	1:o:96:THR:CG2	2.26	0.83
1:y:84:LEU:HD12	1:6:319:PRO:HD3	1.60	0.83
1:B:257:ARG:HG2	1:C:37:SER:HG	1.01	0.82
1:D:133:CYS:HA	1:D:522:LEU:HA	1.60	0.82
1:E:335:TRP:CD1	1:E:336:PRO:HD2	2.14	0.82
1:H:257:ARG:NH1	1:Z:35:GLY:O	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:300:GLY:HA2	1:K:301:GLN:HB3	1.61	0.82
1:L:35:GLY:O	1:1:257:ARG:NH1	2.11	0.82
1:O:319:PRO:HD3	1:g:84:LEU:HD12	1.60	0.82
1:T:35:GLY:O	1:U:257:ARG:NH1	2.11	0.82
1:U:335:TRP:CD1	1:U:336:PRO:HD2	2.14	0.82
1:V:133:CYS:HA	1:V:522:LEU:HA	1.60	0.82
1:d:335:TRP:CD1	1:d:336:PRO:HD2	2.14	0.82
1:f:133:CYS:HA	1:f:522:LEU:HA	1.60	0.82
1:h:335:TRP:CD1	1:h:336:PRO:HD2	2.14	0.82
1:i:37:SER:HG	1:6:257:ARG:HG2	1.00	0.82
1:l:257:ARG:NH1	1:r:35:GLY:O	2.11	0.82
1:m:300:GLY:HA2	1:m:301:GLN:HB3	1.61	0.82
1:m:335:TRP:CD1	1:m:336:PRO:HD2	2.14	0.82
1:v:35:GLY:O	1:w:257:ARG:NH1	2.11	0.82
1:6:335:TRP:CD1	1:6:336:PRO:HD2	2.14	0.82
1:E:93:GLY:O	1:E:96:THR:CG2	2.26	0.82
1:F:84:LEU:HD12	1:Q:319:PRO:HD3	1.60	0.82
1:H:84:LEU:HD12	1:Y:319:PRO:HD3	1.59	0.82
1:M:93:GLY:O	1:M:96:THR:CG2	2.26	0.82
1:N:335:TRP:CD1	1:N:336:PRO:HD2	2.14	0.82
1:O:335:TRP:CD1	1:O:336:PRO:HD2	2.14	0.82
1:S:35:GLY:O	1:3:257:ARG:NH1	2.11	0.82
1:Y:35:GLY:O	1:x:257:ARG:NH1	2.11	0.82
1:e:257:ARG:NH1	1:q:35:GLY:O	2.11	0.82
1:i:35:GLY:O	1:6:257:ARG:NH1	2.11	0.82
1:k:84:LEU:HD12	1:m:319:PRO:HD3	1.60	0.82
1:k:335:TRP:CD1	1:k:336:PRO:HD2	2.14	0.82
1:p:93:GLY:O	1:p:96:THR:CG2	2.26	0.82
1:p:335:TRP:CD1	1:p:336:PRO:HD2	2.14	0.82
1:s:300:GLY:HA2	1:s:301:GLN:HB3	1.61	0.82
1:7:133:CYS:HA	1:7:522:LEU:HA	1.60	0.82
1:I:35:GLY:O	1:J:257:ARG:NH1	2.11	0.82
1:N:133:CYS:HA	1:N:522:LEU:HA	1.60	0.82
1:Q:35:GLY:O	1:S:257:ARG:NH1	2.10	0.82
1:T:37:SER:HG	1:U:257:ARG:HG2	1.00	0.82
1:Z:319:PRO:HD3	1:x:84:LEU:HD12	1.60	0.82
1:3:335:TRP:CD1	1:3:336:PRO:HD2	2.14	0.82
1:g:335:TRP:CD1	1:g:336:PRO:HD2	2.14	0.82
1:h:300:GLY:HA2	1:h:301:GLN:HB3	1.61	0.82
1:n:319:PRO:HD3	1:o:84:LEU:HD12	1.60	0.82
1:r:133:CYS:HA	1:r:522:LEU:HA	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:133:CYS:HA	1:s:522:LEU:HA	1.60	0.82
1:A:300:GLY:HA2	1:A:301:GLN:HB3	1.61	0.82
1:F:109:TRP:CZ3	1:F:485:LYS:HB3	2.15	0.82
1:K:335:TRP:CD1	1:K:336:PRO:HD2	2.14	0.82
1:P:133:CYS:HA	1:P:522:LEU:HA	1.60	0.82
1:4:335:TRP:CD1	1:4:336:PRO:HD2	2.14	0.82
1:d:93:GLY:O	1:d:96:THR:CG2	2.26	0.82
1:j:35:GLY:O	1:k:257:ARG:NH1	2.11	0.82
1:j:335:TRP:CD1	1:j:336:PRO:HD2	2.14	0.82
1:o:35:GLY:O	1:v:257:ARG:NH1	2.11	0.82
1:r:335:TRP:CD1	1:r:336:PRO:HD2	2.14	0.82
1:x:133:CYS:HA	1:x:522:LEU:HA	1.60	0.82
1:y:335:TRP:CD1	1:y:336:PRO:HD2	2.14	0.82
1:C:109:TRP:CZ3	1:C:485:LYS:HB3	2.15	0.82
1:C:257:ARG:NH1	1:D:35:GLY:O	2.11	0.82
1:H:133:CYS:HA	1:H:522:LEU:HA	1.60	0.82
1:H:300:GLY:HA2	1:H:301:GLN:HB3	1.61	0.82
1:R:109:TRP:CZ3	1:R:485:LYS:HB3	2.15	0.82
1:S:335:TRP:CD1	1:S:336:PRO:HD2	2.14	0.82
1:5:257:ARG:NH1	1:t:35:GLY:O	2.11	0.82
1:f:109:TRP:CZ3	1:f:485:LYS:HB3	2.15	0.82
1:j:257:ARG:NH1	1:z:35:GLY:O	2.11	0.82
1:l:335:TRP:CD1	1:l:336:PRO:HD2	2.14	0.82
1:x:300:GLY:HA2	1:x:301:GLN:HB3	1.61	0.82
1:y:109:TRP:CZ3	1:y:485:LYS:HB3	2.15	0.82
1:z:335:TRP:CD1	1:z:336:PRO:HD2	2.14	0.82
1:B:300:GLY:HA2	1:B:301:GLN:HB3	1.61	0.82
1:B:335:TRP:CD1	1:B:336:PRO:HD2	2.14	0.82
1:F:35:GLY:O	1:G:257:ARG:NH1	2.11	0.82
1:R:133:CYS:HA	1:R:522:LEU:HA	1.60	0.82
1:R:335:TRP:CD1	1:R:336:PRO:HD2	2.14	0.82
1:U:300:GLY:HA2	1:U:301:GLN:HB3	1.61	0.82
1:Y:109:TRP:CZ3	1:Y:485:LYS:HB3	2.15	0.82
1:Z:109:TRP:CZ3	1:Z:485:LYS:HB3	2.15	0.82
1:Z:300:GLY:HA2	1:Z:301:GLN:HB3	1.61	0.82
1:2:109:TRP:CZ3	1:2:485:LYS:HB3	2.15	0.82
1:2:319:PRO:HD3	1:i:84:LEU:HD12	1.60	0.82
1:h:133:CYS:HA	1:h:522:LEU:HA	1.60	0.82
1:n:35:GLY:O	1:z:257:ARG:NH1	2.10	0.82
1:n:335:TRP:CD1	1:n:336:PRO:HD2	2.14	0.82
1:o:109:TRP:CZ3	1:o:485:LYS:HB3	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:300:GLY:HA2	1:t:301:GLN:HB3	1.61	0.82
1:u:300:GLY:HA2	1:u:301:GLN:HB3	1.61	0.82
1:y:319:PRO:HD3	1:z:84:LEU:HD12	1.60	0.82
1:z:109:TRP:CZ3	1:z:485:LYS:HB3	2.15	0.82
1:A:335:TRP:CD1	1:A:336:PRO:HD2	2.14	0.82
1:B:109:TRP:CZ3	1:B:485:LYS:HB3	2.15	0.82
1:F:257:ARG:NH1	1:R:35:GLY:O	2.10	0.82
1:I:300:GLY:HA2	1:I:301:GLN:HB3	1.61	0.82
1:R:319:PRO:HD3	1:S:84:LEU:HD12	1.60	0.82
1:S:109:TRP:CZ3	1:S:485:LYS:HB3	2.15	0.82
1:T:84:LEU:HD12	1:f:319:PRO:HD3	1.60	0.82
1:T:319:PRO:HD3	1:3:84:LEU:HD12	1.60	0.82
1:U:109:TRP:CZ3	1:U:485:LYS:HB3	2.15	0.82
1:Y:300:GLY:HA2	1:Y:301:GLN:HB3	1.61	0.82
1:4:35:GLY:O	1:b:257:ARG:NH1	2.11	0.82
1:a:300:GLY:HA2	1:a:301:GLN:HB3	1.61	0.82
1:a:335:TRP:CD1	1:a:336:PRO:HD2	2.14	0.82
1:e:109:TRP:CZ3	1:e:485:LYS:HB3	2.15	0.82
1:p:257:ARG:NH1	1:u:35:GLY:O	2.11	0.82
1:u:335:TRP:CD1	1:u:336:PRO:HD2	2.14	0.82
1:v:133:CYS:HA	1:v:522:LEU:HA	1.60	0.82
1:y:133:CYS:HA	1:y:522:LEU:HA	1.60	0.82
1:6:109:TRP:CZ3	1:6:485:LYS:HB3	2.15	0.82
1:6:300:GLY:HA2	1:6:301:GLN:HB3	1.61	0.82
1:B:319:PRO:HD3	1:J:84:LEU:HD12	1.60	0.82
1:E:84:LEU:HD12	1:F:319:PRO:HD3	1.60	0.82
1:F:37:SER:HG	1:G:257:ARG:CG	1.78	0.82
1:G:109:TRP:CZ3	1:G:485:LYS:HB3	2.15	0.82
1:N:93:GLY:O	1:N:96:THR:CG2	2.26	0.82
1:O:257:ARG:NH1	1:3:35:GLY:O	2.11	0.82
1:Q:335:TRP:CD1	1:Q:336:PRO:HD2	2.14	0.82
1:T:335:TRP:CD1	1:T:336:PRO:HD2	2.14	0.82
1:X:335:TRP:CD1	1:X:336:PRO:HD2	2.14	0.82
1:Z:84:LEU:HD12	1:w:319:PRO:HD3	1.60	0.82
1:3:93:GLY:O	1:3:96:THR:CG2	2.26	0.82
1:5:300:GLY:HA2	1:5:301:GLN:HB3	1.61	0.82
1:a:109:TRP:CZ3	1:a:485:LYS:HB3	2.15	0.82
1:i:319:PRO:HD3	1:j:84:LEU:HD12	1.60	0.82
1:l:319:PRO:HD3	1:m:84:LEU:HD12	1.60	0.82
1:x:335:TRP:CD1	1:x:336:PRO:HD2	2.14	0.82
1:G:133:CYS:HA	1:G:522:LEU:HA	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:335:TRP:CD1	1:H:336:PRO:HD2	2.14	0.82
1:J:300:GLY:HA2	1:J:301:GLN:HB3	1.61	0.82
1:J:319:PRO:HD3	1:L:84:LEU:HD12	1.60	0.82
1:N:319:PRO:HD3	1:P:84:LEU:HD12	1.59	0.82
1:O:300:GLY:HA2	1:O:301:GLN:HB3	1.61	0.82
1:P:335:TRP:CD1	1:P:336:PRO:HD2	2.14	0.82
1:W:319:PRO:HD3	1:Y:84:LEU:HD12	1.60	0.82
1:0:335:TRP:CD1	1:0:336:PRO:HD2	2.14	0.82
1:2:84:LEU:HD12	1:j:319:PRO:HD3	1.60	0.82
1:a:257:ARG:CG	1:e:37:SER:CA	2.58	0.82
1:a:257:ARG:HG2	1:e:37:SER:HG	1.01	0.82
1:g:319:PRO:HD3	1:h:84:LEU:HD12	1.60	0.82
1:i:335:TRP:CD1	1:i:336:PRO:HD2	2.14	0.82
1:j:93:GLY:O	1:j:96:THR:CG2	2.26	0.82
1:m:133:CYS:HA	1:m:522:LEU:HA	1.60	0.82
1:o:498:GLY:O	1:o:502:SER:CB	2.24	0.82
1:r:93:GLY:O	1:r:96:THR:CG2	2.26	0.82
1:v:109:TRP:CZ3	1:v:485:LYS:HB3	2.15	0.82
1:B:133:CYS:HA	1:B:522:LEU:HA	1.60	0.82
1:D:319:PRO:HD3	1:N:84:LEU:HD12	1.59	0.82
1:F:335:TRP:CD1	1:F:336:PRO:HD2	2.14	0.82
1:G:362:SER:HB2	1:G:369:LEU:HG	1.62	0.82
1:P:109:TRP:CZ3	1:P:485:LYS:HB3	2.15	0.82
1:P:362:SER:HB2	1:P:369:LEU:HG	1.62	0.82
1:S:133:CYS:HA	1:S:522:LEU:HA	1.60	0.82
1:T:362:SER:HB2	1:T:369:LEU:HG	1.62	0.82
1:3:319:PRO:HD3	1:f:84:LEU:HD12	1.60	0.82
1:h:109:TRP:CZ3	1:h:485:LYS:HB3	2.15	0.82
1:i:362:SER:HB2	1:i:369:LEU:HG	1.62	0.82
1:m:109:TRP:CZ3	1:m:485:LYS:HB3	2.15	0.82
1:o:319:PRO:HD3	1:p:84:LEU:HD12	1.60	0.82
1:q:319:PRO:HD3	1:r:84:LEU:HD12	1.59	0.82
1:q:362:SER:HB2	1:q:369:LEU:HG	1.62	0.82
1:s:109:TRP:CZ3	1:s:485:LYS:HB3	2.15	0.82
1:v:362:SER:HB2	1:v:369:LEU:HG	1.62	0.82
1:y:362:SER:HB2	1:y:369:LEU:HG	1.62	0.82
1:D:93:GLY:O	1:D:96:THR:CG2	2.26	0.81
1:D:335:TRP:CD1	1:D:336:PRO:HD2	2.14	0.81
1:D:362:SER:HB2	1:D:369:LEU:HG	1.62	0.81
1:F:257:ARG:CG	1:R:37:SER:CA	2.58	0.81
1:F:498:GLY:O	1:F:502:SER:CB	2.24	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:362:SER:HB2	1:R:369:LEU:HG	1.62	0.81
1:a:133:CYS:HA	1:a:522:LEU:HA	1.60	0.81
1:i:96:THR:HG1	1:i:342:TYR:HH	1.09	0.81
1:k:37:SER:HG	1:s:257:ARG:HG2	1.00	0.81
1:k:300:GLY:HA2	1:k:301:GLN:HB3	1.61	0.81
1:n:498:GLY:O	1:n:502:SER:CB	2.24	0.81
1:o:335:TRP:CD1	1:o:336:PRO:HD2	2.14	0.81
1:r:319:PRO:HD3	1:s:84:LEU:HD12	1.59	0.81
1:s:335:TRP:CD1	1:s:336:PRO:HD2	2.14	0.81
1:x:109:TRP:CZ3	1:x:485:LYS:HB3	2.15	0.81
1:A:133:CYS:HA	1:A:522:LEU:HA	1.60	0.81
1:G:37:SER:CA	1:W:257:ARG:CG	2.59	0.81
1:I:133:CYS:HA	1:I:522:LEU:HA	1.60	0.81
1:O:93:GLY:O	1:O:96:THR:CG2	2.26	0.81
1:Q:37:SER:CA	1:S:257:ARG:CG	2.58	0.81
1:W:335:TRP:CD1	1:W:336:PRO:HD2	2.14	0.81
1:X:37:SER:HG	1:Y:257:ARG:HG2	1.03	0.81
1:0:300:GLY:HA2	1:0:301:GLN:HB3	1.61	0.81
1:5:84:LEU:HD12	1:a:319:PRO:HD3	1.60	0.81
1:d:37:SER:HG	1:r:257:ARG:HG2	1.00	0.81
1:k:133:CYS:HA	1:k:522:LEU:HA	1.60	0.81
1:o:257:ARG:CG	1:y:37:SER:CA	2.58	0.81
1:q:84:LEU:HD12	1:s:319:PRO:HD3	1.60	0.81
1:q:93:GLY:O	1:q:96:THR:CG2	2.26	0.81
1:s:362:SER:HB2	1:s:369:LEU:HG	1.62	0.81
1:t:133:CYS:HA	1:t:522:LEU:HA	1.60	0.81
1:u:133:CYS:HA	1:u:522:LEU:HA	1.60	0.81
1:w:335:TRP:CD1	1:w:336:PRO:HD2	2.14	0.81
1:7:335:TRP:CD1	1:7:336:PRO:HD2	2.14	0.81
1:A:109:TRP:CZ3	1:A:485:LYS:HB3	2.15	0.81
1:B:257:ARG:CG	1:C:37:SER:CA	2.58	0.81
1:D:84:LEU:HD12	1:P:319:PRO:HD3	1.59	0.81
1:H:96:THR:OG1	1:H:342:TYR:OH	1.83	0.81
1:H:109:TRP:CZ3	1:H:485:LYS:HB3	2.15	0.81
1:I:109:TRP:CZ3	1:I:485:LYS:HB3	2.15	0.81
1:N:362:SER:HB2	1:N:369:LEU:HG	1.62	0.81
1:O:133:CYS:HA	1:O:522:LEU:HA	1.60	0.81
1:Q:300:GLY:HA2	1:Q:301:GLN:HB3	1.61	0.81
1:Q:498:GLY:O	1:Q:502:SER:CB	2.24	0.81
1:R:257:ARG:NH1	1:V:35:GLY:O	2.11	0.81
1:T:109:TRP:CZ3	1:T:485:LYS:HB3	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:335:TRP:CD1	1:V:336:PRO:HD2	2.14	0.81
1:V:362:SER:HB2	1:V:369:LEU:HG	1.62	0.81
1:X:300:GLY:HA2	1:X:301:GLN:HB3	1.61	0.81
1:Z:362:SER:HB2	1:Z:369:LEU:HG	1.62	0.81
1:0:109:TRP:CZ3	1:0:485:LYS:HB3	2.15	0.81
1:1:300:GLY:HA2	1:1:301:GLN:HB3	1.61	0.81
1:2:335:TRP:CD1	1:2:336:PRO:HD2	2.14	0.81
1:3:133:CYS:HA	1:3:522:LEU:HA	1.60	0.81
1:5:362:SER:HB2	1:5:369:LEU:HG	1.62	0.81
1:a:498:GLY:O	1:a:502:SER:CB	2.24	0.81
1:c:300:GLY:HA2	1:c:301:GLN:HB3	1.61	0.81
1:k:93:GLY:O	1:k:96:THR:CG2	2.26	0.81
1:k:109:TRP:CZ3	1:k:485:LYS:HB3	2.15	0.81
1:n:37:SER:CA	1:z:257:ARG:CG	2.58	0.81
1:n:300:GLY:HA2	1:n:301:GLN:HB3	1.61	0.81
1:q:109:TRP:CZ3	1:q:485:LYS:HB3	2.15	0.81
1:q:335:TRP:CD1	1:q:336:PRO:HD2	2.14	0.81
1:r:362:SER:HB2	1:r:369:LEU:HG	1.62	0.81
1:t:109:TRP:CZ3	1:t:485:LYS:HB3	2.15	0.81
1:t:335:TRP:CD1	1:t:336:PRO:HD2	2.14	0.81
1:u:109:TRP:CZ3	1:u:485:LYS:HB3	2.15	0.81
1:v:37:SER:CA	1:w:257:ARG:CG	2.59	0.81
1:v:335:TRP:CD1	1:v:336:PRO:HD2	2.14	0.81
1:w:84:LEU:HD12	1:x:319:PRO:HD3	1.60	0.81
1:w:109:TRP:CZ3	1:w:485:LYS:HB3	2.15	0.81
1:w:498:GLY:O	1:w:502:SER:CB	2.24	0.81
1:z:133:CYS:HA	1:z:522:LEU:HA	1.60	0.81
1:7:362:SER:HB2	1:7:369:LEU:HG	1.63	0.81
1:B:498:GLY:O	1:B:502:SER:CB	2.24	0.81
1:D:109:TRP:CZ3	1:D:485:LYS:HB3	2.15	0.81
1:D:257:ARG:CG	1:E:37:SER:CA	2.58	0.81
1:G:335:TRP:CD1	1:G:336:PRO:HD2	2.14	0.81
1:H:319:PRO:HD3	1:W:84:LEU:HD12	1.60	0.81
1:I:335:TRP:CD1	1:I:336:PRO:HD2	2.14	0.81
1:J:335:TRP:CD1	1:J:336:PRO:HD2	2.14	0.81
1:L:37:SER:CA	1:1:257:ARG:CG	2.58	0.81
1:L:335:TRP:CD1	1:L:336:PRO:HD2	2.14	0.81
1:L:362:SER:HB2	1:L:369:LEU:HG	1.62	0.81
1:O:109:TRP:CZ3	1:O:485:LYS:HB3	2.15	0.81
1:V:300:GLY:HA2	1:V:301:GLN:HB3	1.61	0.81
1:W:362:SER:HB2	1:W:369:LEU:HG	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:109:TRP:CZ3	1:X:485:LYS:HB3	2.15	0.81
1:Y:37:SER:CA	1:x:257:ARG:CG	2.58	0.81
1:Y:362:SER:HB2	1:Y:369:LEU:HG	1.62	0.81
1:4:109:TRP:CZ3	1:4:485:LYS:HB3	2.15	0.81
1:5:335:TRP:CD1	1:5:336:PRO:HD2	2.14	0.81
1:e:300:GLY:HA2	1:e:301:GLN:HB3	1.61	0.81
1:p:257:ARG:CG	1:u:37:SER:CA	2.59	0.81
1:q:300:GLY:HA2	1:q:301:GLN:HB3	1.61	0.81
1:w:362:SER:HB2	1:w:369:LEU:HG	1.62	0.81
1:y:257:ARG:NH1	1:7:35:GLY:O	2.11	0.81
1:C:300:GLY:HA2	1:C:301:GLN:HB3	1.61	0.81
1:C:335:TRP:CD1	1:C:336:PRO:HD2	2.14	0.81
1:D:300:GLY:HA2	1:D:301:GLN:HB3	1.61	0.81
1:G:300:GLY:HA2	1:G:301:GLN:HB3	1.61	0.81
1:H:257:ARG:CG	1:Z:37:SER:CA	2.58	0.81
1:J:362:SER:HB2	1:J:369:LEU:HG	1.62	0.81
1:K:109:TRP:CZ3	1:K:485:LYS:HB3	2.15	0.81
1:P:35:GLY:O	1:Q:257:ARG:NH1	2.11	0.81
1:T:257:ARG:CG	1:c:37:SER:CA	2.59	0.81
1:W:109:TRP:CZ3	1:W:485:LYS:HB3	2.15	0.81
1:a:362:SER:HB2	1:a:369:LEU:HG	1.62	0.81
1:b:335:TRP:CD1	1:b:336:PRO:HD2	2.14	0.81
1:b:362:SER:HB2	1:b:369:LEU:HG	1.62	0.81
1:d:109:TRP:CZ3	1:d:485:LYS:HB3	2.15	0.81
1:f:335:TRP:CD1	1:f:336:PRO:HD2	2.14	0.81
1:j:109:TRP:CZ3	1:j:485:LYS:HB3	2.15	0.81
1:o:362:SER:HB2	1:o:369:LEU:HG	1.62	0.81
1:p:37:SER:CA	1:q:257:ARG:CG	2.58	0.81
1:r:109:TRP:CZ3	1:r:485:LYS:HB3	2.15	0.81
1:3:109:TRP:CZ3	1:3:485:LYS:HB3	2.15	0.81
1:f:362:SER:HB2	1:f:369:LEU:HG	1.62	0.81
1:i:109:TRP:CZ3	1:i:485:LYS:HB3	2.15	0.81
1:j:133:CYS:HA	1:j:522:LEU:HA	1.60	0.81
1:l:109:TRP:CZ3	1:l:485:LYS:HB3	2.15	0.81
1:n:257:ARG:NH1	1:s:35:GLY:O	2.11	0.81
1:o:37:SER:HG	1:v:257:ARG:CG	1.79	0.81
1:p:109:TRP:CZ3	1:p:485:LYS:HB3	2.15	0.81
1:w:37:SER:CA	1:7:257:ARG:CG	2.58	0.81
1:7:300:GLY:HA2	1:7:301:GLN:HB3	1.61	0.81
1:E:109:TRP:CZ3	1:E:485:LYS:HB3	2.15	0.81
1:E:300:GLY:HA2	1:E:301:GLN:HB3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:362:SER:HB2	1:F:369:LEU:HG	1.62	0.81
1:H:37:SER:CA	1:I:257:ARG:CG	2.59	0.81
1:M:109:TRP:CZ3	1:M:485:LYS:HB3	2.15	0.81
1:N:37:SER:CA	1:g:257:ARG:CG	2.59	0.81
1:N:109:TRP:CZ3	1:N:485:LYS:HB3	2.15	0.81
1:N:498:GLY:O	1:N:502:SER:CB	2.24	0.81
1:W:93:GLY:O	1:W:96:THR:CG2	2.26	0.81
1:Z:335:TRP:CD1	1:Z:336:PRO:HD2	2.14	0.81
1:0:362:SER:HB2	1:0:369:LEU:HG	1.62	0.81
1:1:37:SER:CA	1:i:257:ARG:CG	2.59	0.81
1:e:498:GLY:O	1:e:502:SER:CB	2.24	0.81
1:g:109:TRP:CZ3	1:g:485:LYS:HB3	2.15	0.81
1:x:93:GLY:O	1:x:96:THR:CG2	2.26	0.81
1:B:362:SER:HB2	1:B:369:LEU:HG	1.62	0.81
1:I:362:SER:HB2	1:I:369:LEU:HG	1.62	0.81
1:L:498:GLY:O	1:L:502:SER:CB	2.24	0.81
1:V:109:TRP:CZ3	1:V:485:LYS:HB3	2.15	0.81
1:V:257:ARG:CG	1:W:37:SER:CA	2.59	0.81
1:W:498:GLY:O	1:W:502:SER:CB	2.24	0.81
1:Y:335:TRP:CD1	1:Y:336:PRO:HD2	2.14	0.81
1:2:362:SER:HB2	1:2:369:LEU:HG	1.62	0.81
1:b:109:TRP:CZ3	1:b:485:LYS:HB3	2.15	0.81
1:d:257:ARG:CG	1:f:37:SER:CA	2.59	0.81
1:e:335:TRP:CD1	1:e:336:PRO:HD2	2.14	0.81
1:k:498:GLY:O	1:k:502:SER:CB	2.24	0.81
1:m:498:GLY:O	1:m:502:SER:CB	2.24	0.81
1:t:257:ARG:CG	1:x:37:SER:CA	2.59	0.81
1:t:362:SER:HB2	1:t:369:LEU:HG	1.62	0.81
1:v:300:GLY:HA2	1:v:301:GLN:HB3	1.61	0.81
1:w:93:GLY:O	1:w:96:THR:CG2	2.26	0.81
1:C:498:GLY:O	1:C:502:SER:CB	2.24	0.81
1:H:498:GLY:O	1:H:502:SER:CB	2.24	0.81
1:L:109:TRP:CZ3	1:L:485:LYS:HB3	2.15	0.81
1:X:257:ARG:CG	1:5:37:SER:CA	2.58	0.81
1:X:362:SER:HB2	1:X:369:LEU:HG	1.62	0.81
1:1:37:SER:HG	1:i:257:ARG:HG2	1.00	0.81
1:5:109:TRP:CZ3	1:5:485:LYS:HB3	2.15	0.81
1:h:498:GLY:O	1:h:502:SER:CB	2.24	0.81
1:l:300:GLY:HA2	1:l:301:GLN:HB3	1.61	0.81
1:p:300:GLY:HA2	1:p:301:GLN:HB3	1.61	0.81
1:A:257:ARG:CD	1:B:36:HIS:C	2.53	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:109:TRP:CZ3	1:J:485:LYS:HB3	2.15	0.81
1:M:257:ARG:CG	1:2:37:SER:CA	2.59	0.81
1:5:284:ARG:HH22	1:b:100:SER:HA	1.45	0.81
1:b:93:GLY:O	1:b:96:THR:CG2	2.26	0.81
1:b:498:GLY:O	1:b:502:SER:CB	2.24	0.81
1:m:362:SER:HB2	1:m:369:LEU:HG	1.62	0.81
1:n:109:TRP:CZ3	1:n:485:LYS:HB3	2.15	0.81
1:o:133:CYS:HA	1:o:522:LEU:HA	1.60	0.81
1:x:362:SER:HB2	1:x:369:LEU:HG	1.62	0.81
1:A:362:SER:HB2	1:A:369:LEU:HG	1.62	0.80
1:F:133:CYS:HA	1:F:522:LEU:HA	1.60	0.80
1:K:257:ARG:CG	1:6:37:SER:CA	2.58	0.80
1:L:93:GLY:O	1:L:96:THR:CG2	2.26	0.80
1:O:498:GLY:O	1:O:502:SER:CB	2.24	0.80
1:S:362:SER:HB2	1:S:369:LEU:HG	1.62	0.80
1:g:300:GLY:HA2	1:g:301:GLN:HB3	1.61	0.80
1:h:362:SER:HB2	1:h:369:LEU:HG	1.62	0.80
1:i:37:SER:CA	1:6:257:ARG:CG	2.59	0.80
1:l:257:ARG:CG	1:r:37:SER:CA	2.59	0.80
1:x:498:GLY:O	1:x:502:SER:CB	2.24	0.80
1:7:109:TRP:CZ3	1:7:485:LYS:HB3	2.15	0.80
1:H:362:SER:HB2	1:H:369:LEU:HG	1.62	0.80
1:I:93:GLY:O	1:I:96:THR:CG2	2.26	0.80
1:K:37:SER:CA	1:L:257:ARG:CG	2.59	0.80
1:M:37:SER:CA	1:N:257:ARG:CG	2.59	0.80
1:Q:109:TRP:CZ3	1:Q:485:LYS:HB3	2.15	0.80
1:S:37:SER:CA	1:3:257:ARG:CG	2.59	0.80
1:T:37:SER:CA	1:U:257:ARG:CG	2.59	0.80
1:U:37:SER:CA	1:4:257:ARG:CG	2.58	0.80
1:1:109:TRP:CZ3	1:1:485:LYS:HB3	2.15	0.80
1:1:335:TRP:CD1	1:1:336:PRO:HD2	2.14	0.80
1:1:498:GLY:O	1:1:502:SER:CB	2.24	0.80
1:3:362:SER:HB2	1:3:369:LEU:HG	1.62	0.80
1:h:257:ARG:CG	1:l:37:SER:CA	2.59	0.80
1:j:362:SER:HB2	1:j:369:LEU:HG	1.62	0.80
1:z:362:SER:HB2	1:z:369:LEU:HG	1.62	0.80
1:A:137:LYS:HD3	1:A:273:PRO:HG3	1.64	0.80
1:O:37:SER:CA	1:P:257:ARG:CG	2.58	0.80
1:R:257:ARG:CG	1:V:37:SER:CA	2.59	0.80
1:Y:498:GLY:O	1:Y:502:SER:CB	2.24	0.80
1:5:406:ASP:OD1	1:b:341:HIS:NE2	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:109:TRP:CZ3	1:c:485:LYS:HB3	2.15	0.80
1:c:335:TRP:CD1	1:c:336:PRO:HD2	2.14	0.80
1:l:137:LYS:HD3	1:l:273:PRO:HG3	1.64	0.80
1:u:137:LYS:HD3	1:u:273:PRO:HG3	1.64	0.80
1:u:362:SER:HB2	1:u:369:LEU:HG	1.62	0.80
1:A:257:ARG:CG	1:B:37:SER:CA	2.58	0.80
1:J:36:HIS:C	1:0:257:ARG:CD	2.55	0.80
1:W:300:GLY:HA2	1:W:301:GLN:HB3	1.61	0.80
1:Z:498:GLY:O	1:Z:502:SER:CB	2.24	0.80
1:a:137:LYS:HD3	1:a:273:PRO:HG3	1.64	0.80
1:d:37:SER:CA	1:r:257:ARG:CG	2.59	0.80
1:g:37:SER:CA	1:m:257:ARG:CG	2.59	0.80
1:g:137:LYS:HD3	1:g:273:PRO:HG3	1.64	0.80
1:h:257:ARG:CD	1:l:36:HIS:C	2.55	0.80
1:i:137:LYS:HD3	1:i:273:PRO:HG3	1.64	0.80
1:j:257:ARG:CG	1:z:37:SER:CA	2.59	0.80
1:t:93:GLY:O	1:t:96:THR:CG2	2.26	0.80
1:y:257:ARG:CG	1:7:37:SER:CA	2.59	0.80
1:z:300:GLY:HA2	1:z:301:GLN:HB3	1.61	0.80
1:6:498:GLY:O	1:6:502:SER:CB	2.24	0.80
1:K:257:ARG:CD	1:6:36:HIS:C	2.55	0.80
1:L:37:SER:HG	1:1:257:ARG:HG2	0.99	0.80
1:P:93:GLY:O	1:P:96:THR:CG2	2.26	0.80
1:P:498:GLY:O	1:P:502:SER:CB	2.24	0.80
1:T:36:HIS:C	1:U:257:ARG:CD	2.55	0.80
1:T:137:LYS:HD3	1:T:273:PRO:HG3	1.64	0.80
1:c:498:GLY:O	1:c:502:SER:CB	2.24	0.80
1:i:36:HIS:C	1:6:257:ARG:CD	2.55	0.80
1:k:36:HIS:C	1:s:257:ARG:CD	2.55	0.80
1:B:137:LYS:HD3	1:B:273:PRO:HG3	1.64	0.80
1:F:137:LYS:HD3	1:F:273:PRO:HG3	1.64	0.80
1:M:96:THR:HG1	1:M:342:TYR:HH	1.05	0.80
1:O:257:ARG:CG	1:3:37:SER:CA	2.59	0.80
1:Z:257:ARG:CG	1:0:37:SER:CA	2.59	0.80
1:j:37:SER:CA	1:k:257:ARG:CG	2.59	0.80
1:l:93:GLY:O	1:l:96:THR:CG2	2.26	0.80
1:w:300:GLY:HA2	1:w:301:GLN:HB3	1.61	0.80
1:A:93:GLY:O	1:A:96:THR:CG2	2.26	0.80
1:C:257:ARG:CG	1:D:37:SER:CA	2.59	0.80
1:J:37:SER:CA	1:0:257:ARG:CG	2.59	0.80
1:P:37:SER:HG	1:Q:257:ARG:HG2	0.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:93:GLY:O	1:Q:96:THR:CG2	2.26	0.80
1:S:300:GLY:HA2	1:S:301:GLN:HB3	1.61	0.80
1:U:137:LYS:HD3	1:U:273:PRO:HG3	1.64	0.80
1:U:498:GLY:O	1:U:502:SER:CB	2.24	0.80
1:X:37:SER:CA	1:Y:257:ARG:CG	2.59	0.80
1:5:137:LYS:HD3	1:5:273:PRO:HG3	1.64	0.80
1:5:257:ARG:CG	1:t:37:SER:CA	2.58	0.80
1:e:257:ARG:CG	1:q:37:SER:CA	2.60	0.80
1:g:93:GLY:O	1:g:96:THR:CG2	2.26	0.80
1:h:93:GLY:O	1:h:96:THR:CG2	2.26	0.80
1:k:37:SER:CA	1:s:257:ARG:CG	2.58	0.80
1:m:93:GLY:O	1:m:96:THR:CG2	2.26	0.80
1:n:362:SER:HB2	1:n:369:LEU:HG	1.62	0.80
1:s:93:GLY:O	1:s:96:THR:CG2	2.26	0.80
1:u:93:GLY:O	1:u:96:THR:CG2	2.26	0.80
1:D:137:LYS:HD3	1:D:273:PRO:HG3	1.64	0.80
1:H:137:LYS:HD3	1:H:273:PRO:HG3	1.64	0.80
1:J:137:LYS:HD3	1:J:273:PRO:HG3	1.64	0.80
1:M:137:LYS:HD3	1:M:273:PRO:HG3	1.64	0.80
1:M:257:ARG:CD	1:2:36:HIS:C	2.55	0.80
1:O:36:HIS:C	1:P:257:ARG:CD	2.55	0.80
1:Q:37:SER:HG	1:S:257:ARG:CG	1.81	0.80
1:Q:362:SER:HB2	1:Q:369:LEU:HG	1.62	0.80
1:4:362:SER:HB2	1:4:369:LEU:HG	1.62	0.80
1:5:257:ARG:CD	1:t:36:HIS:C	2.55	0.80
1:d:36:HIS:C	1:r:257:ARG:CD	2.55	0.80
1:d:257:ARG:CD	1:f:36:HIS:C	2.55	0.80
1:g:36:HIS:C	1:m:257:ARG:CD	2.55	0.80
1:o:137:LYS:HD3	1:o:273:PRO:HG3	1.64	0.80
1:p:257:ARG:CD	1:u:36:HIS:C	2.55	0.80
1:q:137:LYS:HD3	1:q:273:PRO:HG3	1.64	0.80
1:r:137:LYS:HD3	1:r:273:PRO:HG3	1.64	0.80
1:x:137:LYS:HD3	1:x:273:PRO:HG3	1.64	0.80
1:6:137:LYS:HD3	1:6:273:PRO:HG3	1.64	0.80
1:7:137:LYS:HD3	1:7:273:PRO:HG3	1.64	0.80
1:I:36:HIS:C	1:J:257:ARG:CD	2.55	0.80
1:I:37:SER:CA	1:J:257:ARG:CG	2.59	0.80
1:K:362:SER:HB2	1:K:369:LEU:HG	1.62	0.80
1:M:36:HIS:C	1:N:257:ARG:CD	2.55	0.80
1:N:137:LYS:HD3	1:N:273:PRO:HG3	1.64	0.80
1:R:137:LYS:HD3	1:R:273:PRO:HG3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:137:LYS:HD3	1:V:273:PRO:HG3	1.64	0.80
1:f:257:ARG:CD	1:h:36:HIS:C	2.55	0.80
1:f:257:ARG:CG	1:h:37:SER:CA	2.59	0.80
1:f:300:GLY:HA2	1:f:301:GLN:HB3	1.61	0.80
1:n:93:GLY:O	1:n:96:THR:CG2	2.26	0.80
1:p:362:SER:HB2	1:p:369:LEU:HG	1.62	0.80
1:A:35:GLY:O	1:E:257:ARG:NH1	2.13	0.80
1:A:36:HIS:HE1	1:E:33:GLY:CA	1.95	0.80
1:G:93:GLY:O	1:G:96:THR:CG2	2.26	0.80
1:L:137:LYS:HD3	1:L:273:PRO:HG3	1.64	0.80
1:O:257:ARG:CD	1:3:36:HIS:C	2.55	0.80
1:W:96:THR:OG1	1:W:342:TYR:OH	1.82	0.80
1:1:137:LYS:HD3	1:1:273:PRO:HG3	1.64	0.80
1:2:257:ARG:CD	1:m:36:HIS:C	2.55	0.80
1:4:36:HIS:C	1:b:257:ARG:CD	2.55	0.80
1:5:319:PRO:HD3	1:b:84:LEU:HD12	1.61	0.80
1:b:137:LYS:HD3	1:b:273:PRO:HG3	1.64	0.80
1:d:137:LYS:HD3	1:d:273:PRO:HG3	1.64	0.80
1:f:93:GLY:O	1:f:96:THR:CG2	2.26	0.80
1:w:96:THR:OG1	1:w:342:TYR:OH	1.83	0.80
1:w:137:LYS:HD3	1:w:273:PRO:HG3	1.64	0.80
1:y:137:LYS:HD3	1:y:273:PRO:HG3	1.64	0.80
1:E:362:SER:HB2	1:E:369:LEU:HG	1.62	0.79
1:F:36:HIS:C	1:G:257:ARG:CD	2.55	0.79
1:F:37:SER:CA	1:G:257:ARG:CG	2.59	0.79
1:F:257:ARG:CD	1:R:36:HIS:C	2.55	0.79
1:J:93:GLY:O	1:J:96:THR:CG2	2.26	0.79
1:T:257:ARG:HG2	1:c:37:SER:HG	0.98	0.79
1:W:137:LYS:HD3	1:W:273:PRO:HG3	1.64	0.79
1:Y:137:LYS:HD3	1:Y:273:PRO:HG3	1.64	0.79
1:Z:137:LYS:HD3	1:Z:273:PRO:HG3	1.64	0.79
1:2:257:ARG:CG	1:m:37:SER:CA	2.59	0.79
1:2:300:GLY:HA2	1:2:301:GLN:HB3	1.61	0.79
1:c:137:LYS:HD3	1:c:273:PRO:HG3	1.64	0.79
1:o:36:HIS:C	1:v:257:ARG:CD	2.55	0.79
1:o:37:SER:CA	1:v:257:ARG:CG	2.59	0.79
1:o:257:ARG:CD	1:y:36:HIS:C	2.55	0.79
1:F:300:GLY:HA2	1:F:301:GLN:HB3	1.61	0.79
1:G:36:HIS:C	1:W:257:ARG:CD	2.55	0.79
1:K:36:HIS:C	1:L:257:ARG:CD	2.56	0.79
1:K:244:PHE:CZ	1:K:246:PRO:HB3	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:37:SER:CA	1:Q:257:ARG:CG	2.59	0.79
1:Q:244:PHE:CZ	1:Q:246:PRO:HB3	2.18	0.79
1:X:257:ARG:CD	1:5:36:HIS:C	2.56	0.79
1:2:137:LYS:HD3	1:2:273:PRO:HG3	1.64	0.79
1:4:244:PHE:CZ	1:4:246:PRO:HB3	2.18	0.79
1:5:257:ARG:N	1:t:37:SER:OG	2.16	0.79
1:d:244:PHE:CZ	1:d:246:PRO:HB3	2.18	0.79
1:j:36:HIS:C	1:k:257:ARG:CD	2.55	0.79
1:k:362:SER:HB2	1:k:369:LEU:HG	1.62	0.79
1:n:244:PHE:CZ	1:n:246:PRO:HB3	2.18	0.79
1:o:300:GLY:HA2	1:o:301:GLN:HB3	1.61	0.79
1:v:36:HIS:C	1:w:257:ARG:CD	2.55	0.79
1:C:244:PHE:CZ	1:C:246:PRO:HB3	2.18	0.79
1:D:257:ARG:CD	1:E:36:HIS:C	2.55	0.79
1:G:137:LYS:HD3	1:G:273:PRO:HG3	1.64	0.79
1:H:36:HIS:C	1:I:257:ARG:CD	2.55	0.79
1:L:36:HIS:C	1:1:257:ARG:CD	2.55	0.79
1:M:244:PHE:CZ	1:M:246:PRO:HB3	2.18	0.79
1:X:36:HIS:C	1:Y:257:ARG:CD	2.55	0.79
1:Y:36:HIS:C	1:x:257:ARG:CD	2.55	0.79
1:Z:257:ARG:CD	1:0:36:HIS:C	2.55	0.79
1:2:93:GLY:O	1:2:96:THR:CG2	2.26	0.79
1:e:244:PHE:CZ	1:e:246:PRO:HB3	2.18	0.79
1:p:244:PHE:CZ	1:p:246:PRO:HB3	2.18	0.79
1:s:137:LYS:HD3	1:s:273:PRO:HG3	1.64	0.79
1:t:257:ARG:CD	1:x:36:HIS:C	2.55	0.79
1:v:137:LYS:HD3	1:v:273:PRO:HG3	1.64	0.79
1:z:498:GLY:O	1:z:502:SER:CB	2.24	0.79
1:6:362:SER:HB2	1:6:369:LEU:HG	1.62	0.79
1:F:244:PHE:CZ	1:F:246:PRO:HB3	2.18	0.79
1:H:244:PHE:CZ	1:H:246:PRO:HB3	2.18	0.79
1:H:257:ARG:CD	1:Z:36:HIS:C	2.55	0.79
1:M:362:SER:HB2	1:M:369:LEU:HG	1.62	0.79
1:P:137:LYS:HD3	1:P:273:PRO:HG3	1.64	0.79
1:R:93:GLY:O	1:R:96:THR:CG2	2.26	0.79
1:T:257:ARG:CD	1:c:36:HIS:C	2.55	0.79
1:5:93:GLY:O	1:5:96:THR:CG2	2.26	0.79
1:5:257:ARG:HG3	1:t:37:SER:N	1.98	0.79
1:f:137:LYS:HD3	1:f:273:PRO:HG3	1.64	0.79
1:i:498:GLY:O	1:i:502:SER:CB	2.24	0.79
1:n:257:ARG:CG	1:s:37:SER:CA	2.59	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:244:PHE:CZ	1:o:246:PRO:HB3	2.18	0.79
1:p:36:HIS:C	1:q:257:ARG:CD	2.55	0.79
1:v:93:GLY:O	1:v:96:THR:CG2	2.26	0.79
1:x:244:PHE:CZ	1:x:246:PRO:HB3	2.18	0.79
1:C:362:SER:HB2	1:C:369:LEU:HG	1.62	0.79
1:E:244:PHE:CZ	1:E:246:PRO:HB3	2.18	0.79
1:O:362:SER:HB2	1:O:369:LEU:HG	1.62	0.79
1:Q:36:HIS:C	1:S:257:ARG:CD	2.55	0.79
1:R:257:ARG:CD	1:V:36:HIS:C	2.55	0.79
1:S:93:GLY:O	1:S:96:THR:CG2	2.26	0.79
1:U:36:HIS:C	1:4:257:ARG:CD	2.55	0.79
1:1:36:HIS:C	1:i:257:ARG:CD	2.55	0.79
1:4:137:LYS:HD3	1:4:273:PRO:HG3	1.64	0.79
1:a:36:HIS:CE1	1:u:34:VAL:HG23	2.17	0.79
1:a:37:SER:CA	1:u:257:ARG:CG	2.59	0.79
1:g:244:PHE:CZ	1:g:246:PRO:HB3	2.18	0.79
1:h:244:PHE:CZ	1:h:246:PRO:HB3	2.18	0.79
1:k:244:PHE:CZ	1:k:246:PRO:HB3	2.18	0.79
1:l:244:PHE:CZ	1:l:246:PRO:HB3	2.18	0.79
1:m:244:PHE:CZ	1:m:246:PRO:HB3	2.18	0.79
1:n:36:HIS:C	1:z:257:ARG:CD	2.55	0.79
1:z:244:PHE:CZ	1:z:246:PRO:HB3	2.18	0.79
1:A:36:HIS:CE1	1:E:33:GLY:N	2.51	0.79
1:B:257:ARG:CD	1:C:36:HIS:C	2.55	0.79
1:K:137:LYS:HD3	1:K:273:PRO:HG3	1.64	0.79
1:O:244:PHE:CZ	1:O:246:PRO:HB3	2.18	0.79
1:Q:37:SER:N	1:S:257:ARG:HG3	1.98	0.79
1:S:498:GLY:O	1:S:502:SER:CB	2.24	0.79
1:X:244:PHE:CZ	1:X:246:PRO:HB3	2.18	0.79
1:0:244:PHE:CZ	1:0:246:PRO:HB3	2.18	0.79
1:e:362:SER:HB2	1:e:369:LEU:HG	1.62	0.79
1:g:362:SER:HB2	1:g:369:LEU:HG	1.62	0.79
1:j:137:LYS:HD3	1:j:273:PRO:HG3	1.64	0.79
1:l:362:SER:HB2	1:l:369:LEU:HG	1.62	0.79
1:n:37:SER:N	1:z:257:ARG:HG3	1.98	0.79
1:y:93:GLY:O	1:y:96:THR:CG2	2.26	0.79
1:y:257:ARG:CD	1:7:36:HIS:C	2.55	0.79
1:z:93:GLY:O	1:z:96:THR:CG2	2.26	0.79
1:F:257:ARG:HG3	1:R:37:SER:N	1.98	0.79
1:R:244:PHE:CZ	1:R:246:PRO:HB3	2.18	0.79
1:S:244:PHE:CZ	1:S:246:PRO:HB3	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:498:GLY:O	1:T:502:SER:CB	2.24	0.79
1:U:362:SER:HB2	1:U:369:LEU:HG	1.62	0.79
1:V:257:ARG:CD	1:W:36:HIS:C	2.55	0.79
1:3:137:LYS:HD3	1:3:273:PRO:HG3	1.64	0.79
1:d:362:SER:HB2	1:d:369:LEU:HG	1.62	0.79
1:e:137:LYS:HD3	1:e:273:PRO:HG3	1.64	0.79
1:o:257:ARG:HG3	1:y:37:SER:N	1.98	0.79
1:u:244:PHE:CZ	1:u:246:PRO:HB3	2.18	0.79
1:w:36:HIS:C	1:7:257:ARG:CD	2.55	0.79
1:V:93:GLY:O	1:V:96:THR:CG2	2.26	0.79
1:a:257:ARG:N	1:e:37:SER:OG	2.16	0.79
1:c:362:SER:HB2	1:c:369:LEU:HG	1.62	0.79
1:p:137:LYS:HD3	1:p:273:PRO:HG3	1.64	0.79
1:t:244:PHE:CZ	1:t:246:PRO:HB3	2.17	0.79
1:y:244:PHE:CZ	1:y:246:PRO:HB3	2.18	0.79
1:A:244:PHE:CZ	1:A:246:PRO:HB3	2.18	0.79
1:C:137:LYS:HD3	1:C:273:PRO:HG3	1.64	0.79
1:E:137:LYS:HD3	1:E:273:PRO:HG3	1.64	0.79
1:G:244:PHE:CZ	1:G:246:PRO:HB3	2.18	0.79
1:H:257:ARG:N	1:Z:37:SER:OG	2.16	0.79
1:I:37:SER:OG	1:J:257:ARG:N	2.16	0.79
1:I:37:SER:N	1:J:257:ARG:HG3	1.98	0.79
1:O:137:LYS:HD3	1:O:273:PRO:HG3	1.64	0.79
1:V:244:PHE:CZ	1:V:246:PRO:HB3	2.18	0.79
1:Y:37:SER:OG	1:x:257:ARG:N	2.16	0.79
1:Y:37:SER:N	1:x:257:ARG:HG3	1.98	0.79
1:1:362:SER:HB2	1:1:369:LEU:HG	1.62	0.79
1:j:244:PHE:CZ	1:j:246:PRO:HB3	2.18	0.79
1:v:244:PHE:CZ	1:v:246:PRO:HB3	2.18	0.79
1:7:244:PHE:CZ	1:7:246:PRO:HB3	2.18	0.79
1:H:257:ARG:HG3	1:Z:37:SER:N	1.98	0.79
1:I:244:PHE:CZ	1:I:246:PRO:HB3	2.18	0.79
1:O:257:ARG:N	1:3:37:SER:OG	2.16	0.79
1:4:93:GLY:O	1:4:96:THR:CG2	2.26	0.79
1:e:257:ARG:CD	1:q:36:HIS:C	2.55	0.79
1:k:137:LYS:HD3	1:k:273:PRO:HG3	1.64	0.79
1:A:257:ARG:HG3	1:B:37:SER:N	1.98	0.78
1:F:257:ARG:N	1:R:37:SER:OG	2.16	0.78
1:O:37:SER:N	1:P:257:ARG:HG3	1.98	0.78
1:S:36:HIS:C	1:3:257:ARG:CD	2.55	0.78
1:T:93:GLY:O	1:T:96:THR:CG2	2.26	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:34:VAL:HG23	1:5:36:HIS:CE1	2.17	0.78
1:X:498:GLY:O	1:X:502:SER:CB	2.24	0.78
1:c:244:PHE:CZ	1:c:246:PRO:HB3	2.18	0.78
1:h:137:LYS:HD3	1:h:273:PRO:HG3	1.64	0.78
1:j:37:SER:OG	1:k:257:ARG:N	2.16	0.78
1:j:257:ARG:CD	1:z:36:HIS:C	2.55	0.78
1:7:93:GLY:O	1:7:96:THR:CG2	2.26	0.78
1:A:34:VAL:HG23	1:B:36:HIS:CE1	2.18	0.78
1:A:37:SER:CA	1:E:257:ARG:CG	2.61	0.78
1:B:257:ARG:N	1:C:37:SER:OG	2.16	0.78
1:D:244:PHE:CZ	1:D:246:PRO:HB3	2.18	0.78
1:K:93:GLY:O	1:K:96:THR:CG2	2.26	0.78
1:M:36:HIS:CE1	1:N:34:VAL:HG23	2.18	0.78
1:T:37:SER:N	1:U:257:ARG:HG3	1.98	0.78
1:1:244:PHE:CZ	1:1:246:PRO:HB3	2.18	0.78
1:3:244:PHE:CZ	1:3:246:PRO:HB3	2.18	0.78
1:a:33:GLY:CA	1:e:36:HIS:HE1	1.96	0.78
1:i:37:SER:N	1:6:257:ARG:HG3	1.98	0.78
1:m:137:LYS:HD3	1:m:273:PRO:HG3	1.64	0.78
1:o:257:ARG:N	1:y:37:SER:OG	2.16	0.78
1:z:137:LYS:HD3	1:z:273:PRO:HG3	1.64	0.78
1:C:257:ARG:CD	1:D:36:HIS:C	2.55	0.78
1:K:34:VAL:HG23	1:6:36:HIS:CE1	2.18	0.78
1:L:37:SER:OG	1:1:257:ARG:N	2.16	0.78
1:N:244:PHE:CZ	1:N:246:PRO:HB3	2.18	0.78
1:O:257:ARG:HG3	1:3:37:SER:N	1.98	0.78
1:S:137:LYS:HD3	1:S:273:PRO:HG3	1.64	0.78
1:5:257:ARG:HG2	1:t:37:SER:HG	1.44	0.78
1:a:257:ARG:CD	1:e:36:HIS:C	2.56	0.78
1:i:93:GLY:O	1:i:96:THR:CG2	2.26	0.78
1:k:37:SER:N	1:s:257:ARG:HG3	1.98	0.78
1:p:37:SER:N	1:q:257:ARG:HG3	1.98	0.78
1:r:244:PHE:CZ	1:r:246:PRO:HB3	2.18	0.78
1:w:36:HIS:CE1	1:7:34:VAL:HG23	2.18	0.78
1:A:36:HIS:C	1:E:257:ARG:CD	2.57	0.78
1:D:34:VAL:HG23	1:E:36:HIS:CE1	2.18	0.78
1:J:37:SER:OG	1:0:257:ARG:N	2.17	0.78
1:N:36:HIS:C	1:g:257:ARG:CD	2.55	0.78
1:N:37:SER:N	1:g:257:ARG:HG3	1.99	0.78
1:U:37:SER:OG	1:4:257:ARG:N	2.16	0.78
1:V:34:VAL:HG23	1:W:36:HIS:CE1	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:137:LYS:HD3	1:X:273:PRO:HG3	1.64	0.78
1:X:257:ARG:N	1:5:37:SER:OG	2.17	0.78
1:5:244:PHE:CZ	1:5:246:PRO:HB3	2.18	0.78
1:a:36:HIS:C	1:u:257:ARG:CD	2.56	0.78
1:d:36:HIS:CE1	1:r:34:VAL:HG23	2.19	0.78
1:p:36:HIS:CE1	1:q:34:VAL:HG23	2.19	0.78
1:p:257:ARG:HG3	1:u:37:SER:N	1.99	0.78
1:q:244:PHE:CZ	1:q:246:PRO:HB3	2.18	0.78
1:7:498:GLY:O	1:7:502:SER:CB	2.24	0.78
1:D:498:GLY:O	1:D:502:SER:CB	2.24	0.78
1:L:37:SER:N	1:1:257:ARG:HG3	1.98	0.78
1:P:244:PHE:CZ	1:P:246:PRO:HB3	2.18	0.78
1:X:36:HIS:HE1	1:Y:33:GLY:CA	1.97	0.78
1:X:93:GLY:O	1:X:96:THR:CG2	2.26	0.78
1:0:137:LYS:HD3	1:0:273:PRO:HG3	1.64	0.78
1:0:498:GLY:O	1:0:502:SER:CB	2.24	0.78
1:i:244:PHE:CZ	1:i:246:PRO:HB3	2.18	0.78
1:u:498:GLY:O	1:u:502:SER:CB	2.24	0.78
1:w:244:PHE:CZ	1:w:246:PRO:HB3	2.18	0.78
1:D:257:ARG:HG3	1:E:37:SER:N	1.98	0.78
1:G:37:SER:N	1:W:257:ARG:HG3	1.98	0.78
1:J:244:PHE:CZ	1:J:246:PRO:HB3	2.18	0.78
1:K:257:ARG:N	1:6:37:SER:OG	2.16	0.78
1:M:37:SER:N	1:N:257:ARG:HG3	1.98	0.78
1:N:37:SER:OG	1:g:257:ARG:N	2.17	0.78
1:U:36:HIS:CE1	1:4:34:VAL:HG23	2.19	0.78
1:W:244:PHE:CZ	1:W:246:PRO:HB3	2.18	0.78
1:Z:33:GLY:CA	1:0:36:HIS:HE1	1.97	0.78
1:2:34:VAL:HG23	1:m:36:HIS:CE1	2.18	0.78
1:j:37:SER:N	1:k:257:ARG:HG3	1.98	0.78
1:l:257:ARG:HG3	1:r:37:SER:N	1.99	0.78
1:s:244:PHE:CZ	1:s:246:PRO:HB3	2.18	0.78
1:A:257:ARG:N	1:B:37:SER:OG	2.17	0.78
1:Q:137:LYS:HD3	1:Q:273:PRO:HG3	1.64	0.78
1:T:34:VAL:HG23	1:c:36:HIS:CE1	2.18	0.78
1:U:93:GLY:O	1:U:96:THR:CG2	2.26	0.78
1:Z:257:ARG:HG3	1:0:37:SER:N	1.99	0.78
1:5:33:GLY:CA	1:t:36:HIS:HE1	1.96	0.78
1:a:84:LEU:HD12	1:b:319:PRO:HD3	1.66	0.78
1:l:257:ARG:CD	1:r:36:HIS:C	2.55	0.78
1:l:257:ARG:N	1:r:37:SER:OG	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:137:LYS:HD3	1:n:273:PRO:HG3	1.64	0.78
1:v:37:SER:N	1:w:257:ARG:HG3	1.98	0.78
1:G:36:HIS:HE1	1:W:33:GLY:CA	1.97	0.78
1:K:36:HIS:CE1	1:L:34:VAL:HG23	2.19	0.78
1:K:37:SER:OG	1:L:257:ARG:N	2.17	0.78
1:L:244:PHE:CZ	1:L:246:PRO:HB3	2.18	0.78
1:O:36:HIS:CE1	1:P:34:VAL:HG23	2.18	0.78
1:S:37:SER:OG	1:3:257:ARG:N	2.17	0.78
1:T:244:PHE:CZ	1:T:246:PRO:HB3	2.18	0.78
1:X:37:SER:N	1:Y:257:ARG:HG3	1.99	0.78
1:0:93:GLY:O	1:0:96:THR:CG2	2.26	0.78
1:g:37:SER:HG	1:m:257:ARG:HG2	0.98	0.78
1:j:34:VAL:HG23	1:z:36:HIS:CE1	2.18	0.78
1:q:498:GLY:O	1:q:502:SER:CB	2.24	0.78
1:A:498:GLY:O	1:A:502:SER:CB	2.24	0.78
1:H:36:HIS:CE1	1:I:34:VAL:HG23	2.18	0.78
1:H:37:SER:OG	1:I:257:ARG:N	2.17	0.78
1:M:37:SER:OG	1:N:257:ARG:N	2.17	0.78
1:V:498:GLY:O	1:V:502:SER:CB	2.24	0.78
1:d:37:SER:N	1:r:257:ARG:HG3	1.99	0.78
1:n:257:ARG:CD	1:s:36:HIS:C	2.55	0.78
1:t:34:VAL:HG23	1:x:36:HIS:CE1	2.18	0.78
1:t:257:ARG:N	1:x:37:SER:OG	2.17	0.78
1:v:36:HIS:HE1	1:w:33:GLY:CA	1.97	0.78
1:B:33:GLY:CA	1:C:36:HIS:HE1	1.97	0.78
1:D:257:ARG:N	1:E:37:SER:OG	2.16	0.78
1:F:36:HIS:CE1	1:G:34:VAL:HG23	2.18	0.78
1:G:36:HIS:CE1	1:W:34:VAL:HG23	2.19	0.78
1:P:36:HIS:HE1	1:Q:33:GLY:CA	1.97	0.78
1:1:36:HIS:CE1	1:i:34:VAL:HG23	2.18	0.78
1:b:244:PHE:CZ	1:b:246:PRO:HB3	2.18	0.78
1:f:257:ARG:HG3	1:h:37:SER:N	1.99	0.78
1:g:498:GLY:O	1:g:502:SER:CB	2.24	0.78
1:j:257:ARG:N	1:z:37:SER:OG	2.17	0.78
1:M:498:GLY:O	1:M:502:SER:CB	2.24	0.77
1:O:37:SER:OG	1:P:257:ARG:N	2.16	0.77
1:P:36:HIS:C	1:Q:257:ARG:CD	2.55	0.77
1:U:244:PHE:CZ	1:U:246:PRO:HB3	2.18	0.77
1:Y:244:PHE:CZ	1:Y:246:PRO:HB3	2.18	0.77
1:Z:244:PHE:CZ	1:Z:246:PRO:HB3	2.18	0.77
1:2:244:PHE:CZ	1:2:246:PRO:HB3	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:33:GLY:N	1:e:36:HIS:CE1	2.52	0.77
1:a:244:PHE:CZ	1:a:246:PRO:HB3	2.18	0.77
1:d:37:SER:OG	1:r:257:ARG:N	2.17	0.77
1:d:498:GLY:O	1:d:502:SER:CB	2.24	0.77
1:f:34:VAL:HG23	1:h:36:HIS:CE1	2.19	0.77
1:h:34:VAL:HG23	1:l:36:HIS:CE1	2.19	0.77
1:k:37:SER:OG	1:s:257:ARG:N	2.16	0.77
1:n:33:GLY:CA	1:s:36:HIS:HE1	1.97	0.77
1:o:37:SER:OG	1:v:257:ARG:N	2.17	0.77
1:p:37:SER:OG	1:q:257:ARG:N	2.16	0.77
1:v:36:HIS:CE1	1:w:34:VAL:HG23	2.19	0.77
1:v:498:GLY:O	1:v:502:SER:CB	2.24	0.77
1:6:244:PHE:CZ	1:6:246:PRO:HB3	2.18	0.77
1:F:37:SER:OG	1:G:257:ARG:N	2.17	0.77
1:F:37:SER:N	1:G:257:ARG:HG3	1.99	0.77
1:H:33:GLY:CA	1:Z:36:HIS:HE1	1.97	0.77
1:L:36:HIS:CE1	1:1:34:VAL:HG23	2.19	0.77
1:X:33:GLY:CA	1:5:36:HIS:HE1	1.97	0.77
1:a:257:ARG:HG3	1:e:37:SER:N	1.98	0.77
1:e:34:VAL:HG23	1:q:36:HIS:CE1	2.19	0.77
1:f:498:GLY:O	1:f:502:SER:CB	2.24	0.77
1:k:36:HIS:CE1	1:s:34:VAL:HG23	2.18	0.77
1:o:36:HIS:CE1	1:v:34:VAL:HG23	2.19	0.77
1:p:33:GLY:CA	1:u:36:HIS:HE1	1.97	0.77
1:t:33:GLY:CA	1:x:36:HIS:HE1	1.97	0.77
1:t:137:LYS:HD3	1:t:273:PRO:HG3	1.64	0.77
1:w:37:SER:N	1:7:257:ARG:HG3	1.98	0.77
1:B:244:PHE:CZ	1:B:246:PRO:HB3	2.18	0.77
1:C:257:ARG:N	1:D:37:SER:OG	2.17	0.77
1:H:36:HIS:HE1	1:I:33:GLY:CA	1.97	0.77
1:H:37:SER:N	1:I:257:ARG:HG3	1.99	0.77
1:I:36:HIS:HE1	1:J:33:GLY:CA	1.97	0.77
1:J:36:HIS:CE1	1:0:34:VAL:HG23	2.18	0.77
1:Q:37:SER:OG	1:S:257:ARG:N	2.16	0.77
1:T:36:HIS:CE1	1:U:34:VAL:HG23	2.19	0.77
1:X:257:ARG:HG3	1:5:37:SER:N	1.98	0.77
1:Y:36:HIS:HE1	1:x:33:GLY:CA	1.97	0.77
1:2:257:ARG:HG3	1:m:37:SER:N	1.99	0.77
1:f:244:PHE:CZ	1:f:246:PRO:HB3	2.18	0.77
1:l:498:GLY:O	1:l:502:SER:CB	2.24	0.77
1:n:37:SER:OG	1:z:257:ARG:N	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:37:SER:N	1:v:257:ARG:HG3	1.99	0.77
1:p:36:HIS:HE1	1:q:33:GLY:CA	1.98	0.77
1:p:498:GLY:O	1:p:502:SER:CB	2.24	0.77
1:t:257:ARG:HG3	1:x:37:SER:N	1.99	0.77
1:C:34:VAL:HG23	1:D:36:HIS:CE1	2.19	0.77
1:D:33:GLY:CA	1:E:36:HIS:HE1	1.98	0.77
1:F:34:VAL:HG23	1:R:36:HIS:CE1	2.19	0.77
1:G:498:GLY:O	1:G:502:SER:CB	2.24	0.77
1:K:37:SER:N	1:L:257:ARG:HG3	1.99	0.77
1:X:36:HIS:CE1	1:Y:33:GLY:N	2.53	0.77
1:Z:33:GLY:N	1:0:36:HIS:CE1	2.53	0.77
1:5:33:GLY:N	1:t:36:HIS:CE1	2.53	0.77
1:a:34:VAL:HG23	1:e:36:HIS:CE1	2.19	0.77
1:a:37:SER:N	1:u:257:ARG:HG3	2.00	0.77
1:a:341:HIS:NE2	1:b:406:ASP:OD1	2.16	0.77
1:e:257:ARG:N	1:q:37:SER:OG	2.17	0.77
1:g:36:HIS:CE1	1:m:34:VAL:HG23	2.19	0.77
1:o:34:VAL:HG23	1:y:36:HIS:CE1	2.19	0.77
1:w:37:SER:OG	1:7:257:ARG:N	2.16	0.77
1:y:257:ARG:HG3	1:7:37:SER:N	1.99	0.77
1:B:34:VAL:HG23	1:C:36:HIS:CE1	2.19	0.77
1:I:137:LYS:HD3	1:I:273:PRO:HG3	1.64	0.77
1:J:37:SER:N	1:0:257:ARG:HG3	1.98	0.77
1:R:257:ARG:HG3	1:V:37:SER:N	1.99	0.77
1:1:36:HIS:HE1	1:i:33:GLY:CA	1.97	0.77
1:2:498:GLY:O	1:2:502:SER:CB	2.24	0.77
1:j:36:HIS:CE1	1:k:34:VAL:HG23	2.19	0.77
1:E:498:GLY:O	1:E:502:SER:CB	2.24	0.77
1:O:33:GLY:N	1:3:36:HIS:CE1	2.53	0.77
1:P:36:HIS:CE1	1:Q:34:VAL:HG23	2.19	0.77
1:V:257:ARG:N	1:W:37:SER:OG	2.17	0.77
1:V:257:ARG:HG3	1:W:37:SER:N	1.99	0.77
1:i:36:HIS:CE1	1:6:34:VAL:HG23	2.19	0.77
1:i:36:HIS:HE1	1:6:33:GLY:CA	1.97	0.77
1:l:33:GLY:N	1:r:36:HIS:CE1	2.53	0.77
1:n:34:VAL:HG23	1:s:36:HIS:CE1	2.19	0.77
1:A:36:HIS:CE1	1:E:33:GLY:CA	2.68	0.77
1:I:36:HIS:CE1	1:J:34:VAL:HG23	2.19	0.77
1:T:36:HIS:HE1	1:U:33:GLY:CA	1.97	0.77
1:4:36:HIS:CE1	1:b:34:VAL:HG23	2.20	0.77
1:f:257:ARG:N	1:h:37:SER:OG	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:257:ARG:HG2	1:l:37:SER:HG	0.97	0.77
1:B:257:ARG:HG3	1:C:37:SER:N	1.98	0.77
1:C:33:GLY:N	1:D:36:HIS:CE1	2.53	0.77
1:G:36:HIS:CE1	1:W:33:GLY:N	2.53	0.77
1:K:36:HIS:CE1	1:L:33:GLY:N	2.53	0.77
1:K:498:GLY:O	1:K:502:SER:CB	2.24	0.77
1:N:36:HIS:CE1	1:g:33:GLY:N	2.53	0.77
1:Q:36:HIS:HE1	1:S:33:GLY:CA	1.97	0.77
1:R:33:GLY:N	1:V:36:HIS:CE1	2.53	0.77
1:T:257:ARG:HG3	1:c:37:SER:N	1.99	0.77
1:5:33:GLY:CA	1:t:36:HIS:CE1	2.68	0.77
1:e:257:ARG:HG3	1:q:37:SER:N	1.99	0.77
1:g:36:HIS:HE1	1:m:33:GLY:CA	1.97	0.77
1:j:36:HIS:CE1	1:k:33:GLY:N	2.53	0.77
1:p:33:GLY:N	1:u:36:HIS:CE1	2.53	0.77
1:p:257:ARG:N	1:u:37:SER:OG	2.17	0.77
1:v:36:HIS:CE1	1:w:33:GLY:N	2.53	0.77
1:y:33:GLY:N	1:7:36:HIS:CE1	2.53	0.77
1:y:257:ARG:N	1:7:37:SER:OG	2.17	0.77
1:B:33:GLY:N	1:C:36:HIS:CE1	2.53	0.77
1:C:257:ARG:HG3	1:D:37:SER:N	1.99	0.77
1:J:36:HIS:HE1	1:0:33:GLY:CA	1.98	0.77
1:L:36:HIS:HE1	1:1:33:GLY:CA	1.97	0.77
1:T:257:ARG:N	1:c:37:SER:OG	2.17	0.77
1:U:37:SER:N	1:4:257:ARG:HG3	1.98	0.77
1:V:33:GLY:CA	1:W:36:HIS:HE1	1.98	0.77
1:2:257:ARG:N	1:m:37:SER:OG	2.17	0.77
1:4:36:HIS:CE1	1:b:33:GLY:N	2.53	0.77
1:4:498:GLY:O	1:4:502:SER:CB	2.24	0.77
1:a:37:SER:OG	1:u:257:ARG:N	2.18	0.77
1:d:257:ARG:HG3	1:f:37:SER:N	1.98	0.77
1:e:33:GLY:N	1:q:36:HIS:CE1	2.53	0.77
1:n:36:HIS:HE1	1:z:33:GLY:CA	1.97	0.77
1:I:36:HIS:CE1	1:J:33:GLY:N	2.53	0.77
1:I:498:GLY:O	1:I:502:SER:CB	2.24	0.77
1:M:33:GLY:CA	1:2:36:HIS:HE1	1.97	0.77
1:M:257:ARG:HG3	1:2:37:SER:N	1.98	0.77
1:O:36:HIS:HE1	1:P:33:GLY:CA	1.97	0.77
1:R:257:ARG:N	1:V:37:SER:OG	2.17	0.77
1:1:37:SER:OG	1:i:257:ARG:N	2.17	0.77
1:a:36:HIS:HE1	1:u:33:GLY:CA	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:36:HIS:CE1	1:m:33:GLY:N	2.53	0.77
1:h:257:ARG:N	1:l:37:SER:OG	2.16	0.77
1:p:34:VAL:HG23	1:u:36:HIS:CE1	2.19	0.77
1:v:37:SER:OG	1:w:257:ARG:N	2.16	0.77
1:w:36:HIS:HE1	1:7:33:GLY:CA	1.98	0.77
1:C:33:GLY:CA	1:D:36:HIS:HE1	1.97	0.76
1:K:257:ARG:HG3	1:6:37:SER:N	1.98	0.76
1:Q:36:HIS:CE1	1:S:34:VAL:HG23	2.19	0.76
1:T:33:GLY:CA	1:c:36:HIS:HE1	1.98	0.76
1:X:37:SER:OG	1:Y:257:ARG:N	2.17	0.76
1:a:33:GLY:CA	1:e:36:HIS:CE1	2.68	0.76
1:b:36:HIS:CE1	1:c:34:VAL:CA	2.67	0.76
1:c:93:GLY:O	1:c:96:THR:CG2	2.26	0.76
1:g:37:SER:OG	1:m:257:ARG:N	2.17	0.76
1:n:257:ARG:N	1:s:37:SER:OG	2.17	0.76
1:G:37:SER:OG	1:W:257:ARG:N	2.17	0.76
1:K:33:GLY:CA	1:6:36:HIS:HE1	1.98	0.76
1:M:33:GLY:N	1:2:36:HIS:CE1	2.53	0.76
1:O:36:HIS:CE1	1:P:33:GLY:N	2.53	0.76
1:P:37:SER:OG	1:Q:257:ARG:N	2.17	0.76
1:P:37:SER:N	1:Q:257:ARG:HG3	1.99	0.76
1:S:36:HIS:HE1	1:3:33:GLY:CA	1.97	0.76
1:T:36:HIS:CE1	1:U:33:GLY:N	2.53	0.76
1:U:36:HIS:HE1	1:4:33:GLY:CA	1.98	0.76
1:V:257:ARG:HG2	1:W:37:SER:HG	0.96	0.76
1:Z:257:ARG:N	1:0:37:SER:OG	2.17	0.76
1:1:93:GLY:O	1:1:96:THR:CG2	2.26	0.76
1:d:33:GLY:N	1:f:36:HIS:CE1	2.53	0.76
1:d:33:GLY:CA	1:f:36:HIS:HE1	1.97	0.76
1:d:34:VAL:HG23	1:f:36:HIS:CE1	2.19	0.76
1:h:33:GLY:CA	1:l:36:HIS:HE1	1.97	0.76
1:k:36:HIS:HE1	1:s:33:GLY:CA	1.98	0.76
1:y:498:GLY:O	1:y:502:SER:CB	2.24	0.76
1:H:34:VAL:HG23	1:Z:36:HIS:CE1	2.19	0.76
1:T:37:SER:OG	1:U:257:ARG:N	2.16	0.76
1:Z:34:VAL:HG23	1:0:36:HIS:CE1	2.19	0.76
1:1:37:SER:N	1:i:257:ARG:HG3	1.99	0.76
1:i:36:HIS:CE1	1:6:33:GLY:N	2.53	0.76
1:i:37:SER:OG	1:6:257:ARG:N	2.16	0.76
1:j:33:GLY:N	1:z:36:HIS:CE1	2.53	0.76
1:l:33:GLY:CA	1:r:36:HIS:HE1	1.97	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:257:ARG:HG3	1:s:37:SER:N	1.99	0.76
1:K:36:HIS:HE1	1:L:33:GLY:CA	1.97	0.76
1:M:34:VAL:HG23	1:2:36:HIS:CE1	2.19	0.76
1:O:34:VAL:HG23	1:3:36:HIS:CE1	2.20	0.76
1:R:34:VAL:HG23	1:V:36:HIS:CE1	2.19	0.76
1:S:36:HIS:CE1	1:3:33:GLY:N	2.53	0.76
1:V:33:GLY:N	1:W:36:HIS:CE1	2.54	0.76
1:X:36:HIS:CE1	1:Y:34:VAL:HG23	2.19	0.76
1:Y:36:HIS:CE1	1:x:34:VAL:HG23	2.19	0.76
1:j:33:GLY:CA	1:z:36:HIS:HE1	1.97	0.76
1:k:36:HIS:CE1	1:s:33:GLY:N	2.54	0.76
1:n:36:HIS:CE1	1:z:34:VAL:HG23	2.19	0.76
1:w:36:HIS:CE1	1:7:33:GLY:N	2.54	0.76
1:N:36:HIS:HE1	1:g:33:GLY:CA	1.97	0.76
1:P:36:HIS:CE1	1:Q:33:GLY:N	2.53	0.76
1:R:498:GLY:O	1:R:502:SER:CB	2.24	0.76
1:S:36:HIS:CE1	1:3:34:VAL:HG23	2.18	0.76
1:b:36:HIS:HE1	1:c:33:GLY:CA	1.98	0.76
1:e:33:GLY:CA	1:q:36:HIS:HE1	1.97	0.76
1:f:33:GLY:N	1:h:36:HIS:CE1	2.53	0.76
1:g:37:SER:N	1:m:257:ARG:HG3	1.98	0.76
1:h:33:GLY:N	1:l:36:HIS:CE1	2.54	0.76
1:h:257:ARG:HG3	1:l:37:SER:N	1.98	0.76
1:o:33:GLY:CA	1:y:36:HIS:HE1	1.97	0.76
1:t:498:GLY:O	1:t:502:SER:CB	2.24	0.76
1:y:33:GLY:CA	1:7:36:HIS:HE1	1.97	0.76
1:A:37:SER:N	1:E:257:ARG:HG3	2.01	0.76
1:R:33:GLY:CA	1:V:36:HIS:HE1	1.97	0.76
1:2:33:GLY:N	1:m:36:HIS:CE1	2.53	0.76
1:a:36:HIS:CE1	1:u:33:GLY:N	2.54	0.76
1:f:33:GLY:CA	1:h:36:HIS:HE1	1.97	0.76
1:t:33:GLY:N	1:x:36:HIS:CE1	2.53	0.76
1:y:34:VAL:HG23	1:7:36:HIS:CE1	2.19	0.76
1:A:34:VAL:CA	1:B:36:HIS:CE1	2.69	0.76
1:F:33:GLY:CA	1:R:36:HIS:HE1	1.97	0.76
1:G:36:HIS:CE1	1:W:33:GLY:CA	2.69	0.76
1:I:36:HIS:CE1	1:J:33:GLY:CA	2.69	0.76
1:L:36:HIS:CE1	1:1:33:GLY:N	2.53	0.76
1:T:96:THR:HG1	1:T:342:TYR:HH	1.13	0.76
1:U:36:HIS:CE1	1:4:33:GLY:N	2.54	0.76
1:X:34:VAL:CA	1:5:36:HIS:CE1	2.69	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:36:HIS:CE1	1:x:33:GLY:N	2.53	0.76
1:2:33:GLY:CA	1:m:36:HIS:HE1	1.97	0.76
1:j:257:ARG:HG3	1:z:37:SER:N	1.99	0.76
1:l:33:GLY:CA	1:r:36:HIS:CE1	2.69	0.76
1:p:33:GLY:CA	1:u:36:HIS:CE1	2.69	0.76
1:H:33:GLY:N	1:Z:36:HIS:CE1	2.53	0.76
1:S:37:SER:N	1:3:257:ARG:HG3	1.99	0.76
1:X:33:GLY:N	1:5:36:HIS:CE1	2.53	0.76
1:B:93:GLY:O	1:B:96:THR:CG2	2.26	0.76
1:H:36:HIS:CE1	1:I:33:GLY:N	2.53	0.76
1:K:33:GLY:N	1:6:36:HIS:CE1	2.54	0.76
1:N:36:HIS:CE1	1:g:33:GLY:CA	2.69	0.76
1:4:37:SER:CA	1:b:257:ARG:CG	2.64	0.76
1:5:34:VAL:HG23	1:t:36:HIS:CE1	2.20	0.76
1:b:96:THR:HG1	1:b:342:TYR:HH	1.18	0.76
1:d:36:HIS:CE1	1:r:33:GLY:N	2.54	0.76
1:d:36:HIS:HE1	1:r:33:GLY:CA	1.98	0.76
1:n:33:GLY:N	1:s:36:HIS:CE1	2.53	0.76
1:A:37:SER:OG	1:E:257:ARG:N	2.18	0.76
1:L:36:HIS:CE1	1:1:33:GLY:CA	2.69	0.76
1:O:36:HIS:CE1	1:P:33:GLY:CA	2.69	0.76
1:Q:36:HIS:CE1	1:S:33:GLY:CA	2.69	0.76
1:Q:36:HIS:CE1	1:S:33:GLY:N	2.53	0.76
1:1:36:HIS:CE1	1:i:33:GLY:N	2.53	0.76
1:a:93:GLY:O	1:a:96:THR:CG2	2.26	0.76
1:d:257:ARG:N	1:f:37:SER:OG	2.16	0.76
1:j:257:ARG:HG2	1:z:37:SER:HG	0.95	0.76
1:w:37:SER:HG	1:7:257:ARG:HG2	0.95	0.76
1:B:33:GLY:CA	1:C:36:HIS:CE1	2.69	0.75
1:H:33:GLY:CA	1:Z:36:HIS:CE1	2.69	0.75
1:M:36:HIS:CE1	1:N:33:GLY:N	2.54	0.75
1:M:36:HIS:HE1	1:N:33:GLY:CA	1.98	0.75
1:Y:36:HIS:CE1	1:x:33:GLY:CA	2.69	0.75
1:n:36:HIS:CE1	1:z:33:GLY:CA	2.69	0.75
1:n:36:HIS:CE1	1:z:33:GLY:N	2.53	0.75
1:F:33:GLY:CA	1:R:36:HIS:CE1	2.69	0.75
1:M:257:ARG:N	1:2:37:SER:OG	2.16	0.75
1:N:36:HIS:CE1	1:g:34:VAL:HG23	2.19	0.75
1:O:33:GLY:CA	1:3:36:HIS:HE1	1.97	0.75
1:S:36:HIS:CE1	1:3:33:GLY:CA	2.69	0.75
1:U:36:HIS:CE1	1:4:33:GLY:CA	2.70	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:435:THR:HG21	1:b:339:GLN:HE22	1.52	0.75
1:D:34:VAL:CA	1:E:36:HIS:CE1	2.70	0.75
1:T:36:HIS:CE1	1:U:33:GLY:CA	2.69	0.75
1:T:284:ARG:HH22	1:3:100:SER:HA	1.52	0.75
1:i:36:HIS:CE1	1:6:33:GLY:CA	2.69	0.75
1:k:36:HIS:CE1	1:s:33:GLY:CA	2.70	0.75
1:o:33:GLY:CA	1:y:36:HIS:CE1	2.69	0.75
1:o:33:GLY:N	1:y:36:HIS:CE1	2.53	0.75
1:o:36:HIS:HE1	1:v:33:GLY:CA	1.97	0.75
1:v:36:HIS:CE1	1:w:33:GLY:CA	2.69	0.75
1:C:33:GLY:CA	1:D:36:HIS:CE1	2.69	0.75
1:F:33:GLY:N	1:R:36:HIS:CE1	2.53	0.75
1:J:36:HIS:CE1	1:0:34:VAL:CA	2.70	0.75
1:R:33:GLY:CA	1:V:36:HIS:CE1	2.69	0.75
1:i:284:ARG:HH22	1:j:100:SER:HA	1.52	0.75
1:j:33:GLY:CA	1:z:36:HIS:CE1	2.70	0.75
1:j:36:HIS:HE1	1:k:33:GLY:CA	1.97	0.75
1:o:36:HIS:CE1	1:v:33:GLY:CA	2.70	0.75
1:o:36:HIS:CE1	1:v:33:GLY:N	2.53	0.75
1:p:36:HIS:CE1	1:q:34:VAL:CA	2.70	0.75
1:u:284:ARG:HH22	1:v:100:SER:HA	1.52	0.75
1:y:33:GLY:CA	1:7:36:HIS:CE1	2.69	0.75
1:F:36:HIS:CE1	1:G:33:GLY:CA	2.70	0.75
1:F:36:HIS:HE1	1:G:33:GLY:CA	1.97	0.75
1:J:36:HIS:CE1	1:0:33:GLY:N	2.54	0.75
1:K:33:GLY:CA	1:6:36:HIS:CE1	2.70	0.75
1:K:284:ARG:HH22	1:0:100:SER:HA	1.52	0.75
1:N:284:ARG:HH22	1:P:100:SER:HA	1.52	0.75
1:P:36:HIS:CE1	1:Q:33:GLY:CA	2.69	0.75
1:T:33:GLY:N	1:c:36:HIS:CE1	2.54	0.75
1:X:100:SER:HA	1:4:284:ARG:HH22	1.52	0.75
1:1:36:HIS:CE1	1:i:33:GLY:CA	2.70	0.75
1:a:34:VAL:CA	1:e:36:HIS:CE1	2.69	0.75
1:f:33:GLY:CA	1:h:36:HIS:CE1	2.69	0.75
1:h:33:GLY:CA	1:l:36:HIS:CE1	2.69	0.75
1:w:36:HIS:CE1	1:7:33:GLY:CA	2.70	0.75
1:A:284:ARG:HH22	1:G:100:SER:HA	1.52	0.75
1:K:34:VAL:CA	1:6:36:HIS:CE1	2.70	0.75
1:U:36:HIS:CE1	1:4:34:VAL:CA	2.70	0.75
1:d:33:GLY:CA	1:f:36:HIS:CE1	2.69	0.75
1:n:33:GLY:CA	1:s:36:HIS:CE1	2.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:284:ARG:HH22	1:s:100:SER:HA	1.52	0.75
1:w:36:HIS:CE1	1:7:34:VAL:CA	2.70	0.75
1:D:33:GLY:N	1:E:36:HIS:CE1	2.54	0.75
1:E:284:ARG:HH22	1:Q:100:SER:HA	1.52	0.75
1:F:34:VAL:CA	1:R:36:HIS:CE1	2.70	0.75
1:F:36:HIS:CE1	1:G:33:GLY:N	2.53	0.75
1:S:284:ARG:HH22	1:U:100:SER:HA	1.52	0.75
1:V:33:GLY:CA	1:W:36:HIS:CE1	2.70	0.75
1:V:34:VAL:CA	1:W:36:HIS:CE1	2.70	0.75
1:X:36:HIS:CE1	1:Y:33:GLY:CA	2.69	0.75
1:2:33:GLY:CA	1:m:36:HIS:CE1	2.70	0.75
1:e:33:GLY:CA	1:q:36:HIS:CE1	2.70	0.75
1:l:34:VAL:HG23	1:r:36:HIS:CE1	2.19	0.75
1:o:34:VAL:CA	1:y:36:HIS:CE1	2.70	0.75
1:z:284:ARG:HH22	1:6:100:SER:HA	1.52	0.75
1:M:33:GLY:CA	1:2:36:HIS:CE1	2.69	0.75
1:T:33:GLY:CA	1:c:36:HIS:CE1	2.70	0.75
1:Z:33:GLY:CA	1:0:36:HIS:CE1	2.69	0.75
1:Z:100:SER:HA	1:w:284:ARG:HH22	1.52	0.75
1:b:36:HIS:CE1	1:c:33:GLY:CA	2.69	0.75
1:h:257:ARG:CG	1:l:37:SER:HG	1.89	0.75
1:p:36:HIS:CE1	1:q:33:GLY:CA	2.70	0.75
1:p:36:HIS:CE1	1:q:33:GLY:N	2.54	0.75
1:D:33:GLY:CA	1:E:36:HIS:CE1	2.70	0.75
1:H:36:HIS:CE1	1:I:33:GLY:CA	2.69	0.75
1:W:284:ARG:HH22	1:Y:100:SER:HA	1.52	0.75
1:5:70:ASP:O	1:5:503:ARG:NH2	2.20	0.75
1:d:284:ARG:HH22	1:e:100:SER:HA	1.52	0.75
1:n:100:SER:HA	1:p:284:ARG:HH22	1.52	0.75
1:n:284:ARG:HH22	1:o:100:SER:HA	1.52	0.75
1:o:284:ARG:HH22	1:p:100:SER:HA	1.52	0.75
1:A:406:ASP:OD1	1:G:341:HIS:NE2	2.20	0.74
1:C:100:SER:HA	1:M:284:ARG:HH22	1.52	0.74
1:H:36:HIS:CE1	1:I:34:VAL:CA	2.70	0.74
1:J:70:ASP:O	1:J:503:ARG:NH2	2.20	0.74
1:L:70:ASP:O	1:L:503:ARG:NH2	2.20	0.74
1:R:70:ASP:O	1:R:503:ARG:NH2	2.20	0.74
1:Y:36:HIS:CE1	1:x:34:VAL:CA	2.70	0.74
1:2:100:SER:HA	1:j:284:ARG:HH22	1.52	0.74
1:3:284:ARG:HH22	1:f:100:SER:HA	1.52	0.74
1:b:70:ASP:O	1:b:503:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:33:GLY:CA	1:x:36:HIS:CE1	2.69	0.74
1:y:70:ASP:O	1:y:503:ARG:NH2	2.20	0.74
1:B:34:VAL:CA	1:C:36:HIS:CE1	2.70	0.74
1:C:406:ASP:OD1	1:1:341:HIS:NE2	2.21	0.74
1:E:100:SER:HA	1:F:284:ARG:HH22	1.52	0.74
1:O:100:SER:HA	1:h:284:ARG:HH22	1.52	0.74
1:P:70:ASP:O	1:P:503:ARG:NH2	2.20	0.74
1:X:33:GLY:CA	1:5:36:HIS:CE1	2.69	0.74
1:a:36:HIS:CE1	1:u:34:VAL:CA	2.70	0.74
1:b:511:TRP:HE1	1:c:173:LEU:HD13	1.52	0.74
1:d:36:HIS:CE1	1:r:34:VAL:CA	2.70	0.74
1:k:70:ASP:O	1:k:503:ARG:NH2	2.20	0.74
1:s:70:ASP:O	1:s:503:ARG:NH2	2.20	0.74
1:v:70:ASP:O	1:v:503:ARG:NH2	2.20	0.74
1:D:70:ASP:O	1:D:503:ARG:NH2	2.20	0.74
1:F:100:SER:HA	1:Q:284:ARG:HH22	1.52	0.74
1:G:70:ASP:O	1:G:503:ARG:NH2	2.20	0.74
1:H:284:ARG:HH22	1:W:100:SER:HA	1.52	0.74
1:K:70:ASP:O	1:K:503:ARG:NH2	2.20	0.74
1:K:341:HIS:NE2	1:7:406:ASP:OD1	2.21	0.74
1:M:36:HIS:CE1	1:N:34:VAL:CA	2.70	0.74
1:O:70:ASP:O	1:O:503:ARG:NH2	2.20	0.74
1:R:284:ARG:HH22	1:S:100:SER:HA	1.52	0.74
1:T:34:VAL:CA	1:c:36:HIS:CE1	2.70	0.74
1:4:70:ASP:O	1:4:503:ARG:NH2	2.20	0.74
1:k:100:SER:HA	1:m:284:ARG:HH22	1.52	0.74
1:t:34:VAL:CA	1:x:36:HIS:CE1	2.70	0.74
1:w:100:SER:HA	1:x:284:ARG:HH22	1.52	0.74
1:H:34:VAL:CA	1:Z:36:HIS:CE1	2.70	0.74
1:O:33:GLY:CA	1:3:36:HIS:CE1	2.69	0.74
1:O:341:HIS:NE2	1:h:406:ASP:OD1	2.21	0.74
1:V:406:ASP:OD1	1:4:341:HIS:NE2	2.21	0.74
1:W:406:ASP:OD1	1:Y:341:HIS:NE2	2.21	0.74
1:2:341:HIS:NE2	1:j:406:ASP:OD1	2.20	0.74
1:a:36:HIS:CE1	1:u:33:GLY:CA	2.70	0.74
1:c:341:HIS:NE2	1:e:406:ASP:OD1	2.21	0.74
1:j:36:HIS:CE1	1:k:33:GLY:CA	2.69	0.74
1:k:341:HIS:NE2	1:m:406:ASP:OD1	2.21	0.74
1:q:70:ASP:O	1:q:503:ARG:NH2	2.20	0.74
1:A:33:GLY:CA	1:B:36:HIS:HE1	2.01	0.74
1:B:406:ASP:OD1	1:J:341:HIS:NE2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:70:ASP:O	1:W:503:ARG:NH2	2.20	0.74
1:Z:341:HIS:NE2	1:w:406:ASP:OD1	2.21	0.74
1:2:284:ARG:HH22	1:i:100:SER:HA	1.52	0.74
1:3:406:ASP:OD1	1:f:341:HIS:NE2	2.20	0.74
1:w:70:ASP:O	1:w:503:ARG:NH2	2.20	0.74
1:y:284:ARG:HH22	1:z:100:SER:HA	1.52	0.74
1:y:406:ASP:OD1	1:z:341:HIS:NE2	2.21	0.74
1:A:34:VAL:CG2	1:B:36:HIS:CE1	2.71	0.74
1:K:406:ASP:OD1	1:0:341:HIS:NE2	2.21	0.74
1:M:36:HIS:CE1	1:N:33:GLY:CA	2.70	0.74
1:O:511:TRP:HE1	1:P:173:LEU:HD13	1.53	0.74
1:R:406:ASP:OD1	1:S:341:HIS:NE2	2.21	0.74
1:0:406:ASP:OD1	1:7:341:HIS:NE2	2.21	0.74
1:4:37:SER:OG	1:b:257:ARG:N	2.21	0.74
1:5:173:LEU:HD13	1:t:511:TRP:HE1	1.53	0.74
1:5:341:HIS:NE2	1:a:406:ASP:OD1	2.21	0.74
1:d:34:VAL:CA	1:f:36:HIS:CE1	2.70	0.74
1:G:36:HIS:CE1	1:W:34:VAL:CA	2.70	0.74
1:L:36:HIS:CE1	1:1:34:VAL:CA	2.70	0.74
1:T:100:SER:HA	1:f:284:ARG:HH22	1.52	0.74
1:a:70:ASP:O	1:a:503:ARG:NH2	2.20	0.74
1:d:36:HIS:CE1	1:r:33:GLY:CA	2.70	0.74
1:r:70:ASP:O	1:r:503:ARG:NH2	2.20	0.74
1:B:70:ASP:O	1:B:503:ARG:NH2	2.20	0.74
1:D:100:SER:HA	1:P:284:ARG:HH22	1.52	0.74
1:E:406:ASP:OD1	1:Q:341:HIS:NE2	2.21	0.74
1:M:34:VAL:CA	1:2:36:HIS:CE1	2.70	0.74
1:N:70:ASP:O	1:N:503:ARG:NH2	2.20	0.74
1:O:173:LEU:HD13	1:3:511:TRP:HE1	1.53	0.74
1:V:341:HIS:NE2	1:X:406:ASP:OD1	2.21	0.74
1:X:341:HIS:NE2	1:4:406:ASP:OD1	2.21	0.74
1:1:36:HIS:CE1	1:i:34:VAL:CA	2.70	0.74
1:2:406:ASP:OD1	1:i:341:HIS:NE2	2.20	0.74
1:a:100:SER:HA	1:b:284:ARG:HH22	1.53	0.74
1:j:36:HIS:CE1	1:k:34:VAL:CA	2.70	0.74
1:j:511:TRP:HE1	1:k:173:LEU:HD13	1.53	0.74
1:q:406:ASP:OD1	1:r:341:HIS:NE2	2.20	0.74
1:A:284:ARG:HD2	1:G:346:GLY:HA2	1.70	0.74
1:B:346:GLY:HA2	1:L:284:ARG:HD2	1.70	0.74
1:D:284:ARG:HH22	1:N:100:SER:HA	1.52	0.74
1:D:406:ASP:OD1	1:N:341:HIS:NE2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:284:ARG:HH22	1:I:100:SER:HA	1.52	0.74
1:O:34:VAL:CA	1:3:36:HIS:CE1	2.71	0.74
1:S:406:ASP:OD1	1:U:341:HIS:NE2	2.21	0.74
1:T:341:HIS:NE2	1:f:406:ASP:OD1	2.20	0.74
1:T:409:PRO:HG3	1:T:432:TYR:CZ	2.23	0.74
1:2:34:VAL:CA	1:m:36:HIS:CE1	2.70	0.74
1:i:409:PRO:HG3	1:i:432:TYR:CZ	2.23	0.74
1:q:100:SER:HA	1:s:284:ARG:HH22	1.52	0.74
1:t:406:ASP:OD1	1:u:341:HIS:NE2	2.20	0.74
1:u:406:ASP:OD1	1:v:341:HIS:NE2	2.20	0.74
1:v:36:HIS:CE1	1:w:34:VAL:CA	2.70	0.74
1:C:293:THR:OG1	1:C:303:THR:OG1	2.06	0.74
1:E:409:PRO:HG3	1:E:432:TYR:CZ	2.23	0.74
1:J:36:HIS:CE1	1:0:33:GLY:CA	2.70	0.74
1:J:409:PRO:HG3	1:J:432:TYR:CZ	2.23	0.74
1:K:409:PRO:HG3	1:K:432:TYR:CZ	2.23	0.74
1:2:409:PRO:HG3	1:2:432:TYR:CZ	2.23	0.74
1:5:409:PRO:HG3	1:5:432:TYR:CZ	2.23	0.74
1:f:34:VAL:CA	1:h:36:HIS:CE1	2.71	0.74
1:f:409:PRO:HG3	1:f:432:TYR:CZ	2.23	0.74
1:k:511:TRP:HE1	1:s:173:LEU:HD13	1.53	0.74
1:n:293:THR:OG1	1:n:303:THR:OG1	2.06	0.74
1:p:34:VAL:CA	1:u:36:HIS:CE1	2.70	0.74
1:p:409:PRO:HG3	1:p:432:TYR:CZ	2.23	0.74
1:r:284:ARG:HD2	1:s:346:GLY:HA2	1.70	0.74
1:r:406:ASP:OD1	1:s:341:HIS:NE2	2.21	0.74
1:t:100:SER:HA	1:v:284:ARG:HH22	1.52	0.74
1:C:341:HIS:NE2	1:M:406:ASP:OD1	2.21	0.73
1:E:70:ASP:O	1:E:503:ARG:NH2	2.20	0.73
1:F:293:THR:OG1	1:F:303:THR:OG1	2.06	0.73
1:F:409:PRO:HG3	1:F:432:TYR:CZ	2.23	0.73
1:L:511:TRP:HE1	1:1:173:LEU:HD13	1.53	0.73
1:M:409:PRO:HG3	1:M:432:TYR:CZ	2.23	0.73
1:N:406:ASP:OD1	1:P:341:HIS:NE2	2.21	0.73
1:O:406:ASP:OD1	1:g:341:HIS:NE2	2.21	0.73
1:Q:293:THR:OG1	1:Q:303:THR:OG1	2.06	0.73
1:Y:409:PRO:HG3	1:Y:432:TYR:CZ	2.23	0.73
1:0:284:ARG:HH22	1:7:100:SER:HA	1.52	0.73
1:2:293:THR:OG1	1:2:303:THR:OG1	2.06	0.73
1:4:409:PRO:HG3	1:4:432:TYR:CZ	2.23	0.73
1:a:36:HIS:CE1	1:u:34:VAL:CG2	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:406:ASP:OD1	1:e:341:HIS:NE2	2.21	0.73
1:d:409:PRO:HG3	1:d:432:TYR:CZ	2.23	0.73
1:e:293:THR:OG1	1:e:303:THR:OG1	2.06	0.73
1:f:293:THR:OG1	1:f:303:THR:OG1	2.06	0.73
1:g:37:SER:HG	1:m:257:ARG:CG	1.90	0.73
1:i:293:THR:OG1	1:i:303:THR:OG1	2.06	0.73
1:n:341:HIS:NE2	1:p:406:ASP:OD1	2.21	0.73
1:n:511:TRP:HE1	1:z:173:LEU:HD13	1.53	0.73
1:p:70:ASP:O	1:p:503:ARG:NH2	2.20	0.73
1:q:284:ARG:HH22	1:r:100:SER:HA	1.52	0.73
1:z:70:ASP:O	1:z:503:ARG:NH2	2.20	0.73
1:z:406:ASP:OD1	1:6:341:HIS:NE2	2.21	0.73
1:A:36:HIS:CE1	1:E:34:VAL:HG23	2.21	0.73
1:B:341:HIS:NE2	1:L:406:ASP:OD1	2.21	0.73
1:C:284:ARG:HH22	1:1:100:SER:HA	1.52	0.73
1:C:346:GLY:HA2	1:M:284:ARG:HD2	1.70	0.73
1:F:36:HIS:CE1	1:G:34:VAL:CA	2.70	0.73
1:F:346:GLY:HA2	1:Q:284:ARG:HD2	1.70	0.73
1:I:511:TRP:HE1	1:J:173:LEU:HD13	1.53	0.73
1:K:36:HIS:CE1	1:L:33:GLY:CA	2.69	0.73
1:N:284:ARG:HD2	1:P:346:GLY:HA2	1.70	0.73
1:O:36:HIS:CE1	1:P:34:VAL:CA	2.69	0.73
1:Q:511:TRP:HE1	1:S:173:LEU:HD13	1.53	0.73
1:S:70:ASP:O	1:S:503:ARG:NH2	2.20	0.73
1:T:406:ASP:OD1	1:3:341:HIS:NE2	2.20	0.73
1:W:409:PRO:HG3	1:W:432:TYR:CZ	2.23	0.73
1:Y:511:TRP:HE1	1:x:173:LEU:HD13	1.53	0.73
1:Z:406:ASP:OD1	1:x:341:HIS:NE2	2.21	0.73
1:Z:409:PRO:HG3	1:Z:432:TYR:CZ	2.23	0.73
1:c:284:ARG:HH22	1:d:100:SER:HA	1.52	0.73
1:d:173:LEU:HD13	1:f:511:TRP:HE1	1.53	0.73
1:d:284:ARG:HD2	1:e:346:GLY:HA2	1.70	0.73
1:k:406:ASP:OD1	1:l:341:HIS:NE2	2.21	0.73
1:l:284:ARG:HD2	1:m:346:GLY:HA2	1.70	0.73
1:n:284:ARG:HD2	1:o:346:GLY:HA2	1.70	0.73
1:o:36:HIS:CE1	1:v:34:VAL:CA	2.70	0.73
1:o:293:THR:OG1	1:o:303:THR:OG1	2.06	0.73
1:o:409:PRO:HG3	1:o:432:TYR:CZ	2.23	0.73
1:r:409:PRO:HG3	1:r:432:TYR:CZ	2.23	0.73
1:s:498:GLY:O	1:s:502:SER:CB	2.24	0.73
1:A:33:GLY:N	1:B:36:HIS:CE1	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:341:HIS:NE2	1:I:406:ASP:OD1	2.21	0.73
1:G:406:ASP:OD1	1:I:341:HIS:NE2	2.20	0.73
1:G:511:TRP:HE1	1:W:173:LEU:HD13	1.53	0.73
1:H:173:LEU:HD13	1:Z:511:TRP:HE1	1.53	0.73
1:M:173:LEU:HD13	1:2:511:TRP:HE1	1.53	0.73
1:N:409:PRO:HG3	1:N:432:TYR:CZ	2.23	0.73
1:P:409:PRO:HG3	1:P:432:TYR:CZ	2.23	0.73
1:Y:70:ASP:O	1:Y:503:ARG:NH2	2.20	0.73
1:0:409:PRO:HG3	1:0:432:TYR:CZ	2.23	0.73
1:s:409:PRO:HG3	1:s:432:TYR:CZ	2.23	0.73
1:v:511:TRP:HE1	1:w:173:LEU:HD13	1.53	0.73
1:w:409:PRO:HG3	1:w:432:TYR:CZ	2.23	0.73
1:w:511:TRP:HE1	1:7:173:LEU:HD13	1.53	0.73
1:B:100:SER:HA	1:L:284:ARG:HH22	1.52	0.73
1:E:284:ARG:HD2	1:Q:346:GLY:HA2	1.70	0.73
1:K:293:THR:OG1	1:K:303:THR:OG1	2.06	0.73
1:M:100:SER:HA	1:1:284:ARG:HH22	1.52	0.73
1:N:293:THR:OG1	1:N:303:THR:OG1	2.06	0.73
1:T:293:THR:OG1	1:T:303:THR:OG1	2.06	0.73
1:V:100:SER:HA	1:X:284:ARG:HH22	1.52	0.73
1:V:173:LEU:HD13	1:W:511:TRP:HE1	1.53	0.73
1:X:409:PRO:HG3	1:X:432:TYR:CZ	2.23	0.73
1:0:293:THR:OG1	1:0:303:THR:OG1	2.06	0.73
1:3:284:ARG:HD2	1:f:346:GLY:HA2	1.70	0.73
1:5:34:VAL:CA	1:t:36:HIS:CE1	2.70	0.73
1:c:100:SER:HA	1:e:284:ARG:HH22	1.52	0.73
1:i:406:ASP:OD1	1:j:341:HIS:NE2	2.20	0.73
1:r:293:THR:OG1	1:r:303:THR:OG1	2.06	0.73
1:t:341:HIS:NE2	1:v:406:ASP:OD1	2.20	0.73
1:D:409:PRO:HG3	1:D:432:TYR:CZ	2.23	0.73
1:F:511:TRP:HE1	1:G:173:LEU:HD13	1.54	0.73
1:H:341:HIS:NE2	1:Y:406:ASP:OD1	2.21	0.73
1:I:36:HIS:CE1	1:J:34:VAL:CA	2.70	0.73
1:X:36:HIS:CE1	1:Y:34:VAL:CA	2.71	0.73
1:X:293:THR:OG1	1:X:303:THR:OG1	2.06	0.73
1:Z:34:VAL:CA	1:0:36:HIS:CE1	2.71	0.73
1:Z:173:LEU:HD13	1:0:511:TRP:HE1	1.54	0.73
1:g:36:HIS:CE1	1:m:33:GLY:CA	2.69	0.73
1:g:284:ARG:HD2	1:h:346:GLY:HA2	1.71	0.73
1:k:284:ARG:HH22	1:l:100:SER:HA	1.52	0.73
1:q:409:PRO:HG3	1:q:432:TYR:CZ	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:100:SER:HA	1:7:284:ARG:HH22	1.52	0.73
1:Z:70:ASP:O	1:Z:503:ARG:NH2	2.20	0.73
1:Z:346:GLY:HA2	1:w:284:ARG:HD2	1.70	0.73
1:2:346:GLY:HA2	1:j:284:ARG:HD2	1.70	0.73
1:4:36:HIS:HE1	1:b:33:GLY:CA	2.00	0.73
1:4:37:SER:N	1:b:257:ARG:HG3	2.03	0.73
1:4:293:THR:OG1	1:4:303:THR:OG1	2.06	0.73
1:5:100:SER:HA	1:a:284:ARG:HH22	1.52	0.73
1:c:406:ASP:OD1	1:d:341:HIS:NE2	2.21	0.73
1:e:70:ASP:O	1:e:503:ARG:NH2	2.20	0.73
1:e:409:PRO:HG3	1:e:432:TYR:CZ	2.23	0.73
1:g:316:ARG:HH22	1:h:98:ASN:CB	1.92	0.73
1:l:406:ASP:OD1	1:m:341:HIS:NE2	2.20	0.73
1:n:346:GLY:HA2	1:p:284:ARG:HD2	1.70	0.73
1:n:406:ASP:OD1	1:o:341:HIS:NE2	2.21	0.73
1:o:511:TRP:HE1	1:v:173:LEU:HD13	1.54	0.73
1:p:293:THR:OG1	1:p:303:THR:OG1	2.06	0.73
1:z:293:THR:OG1	1:z:303:THR:OG1	2.06	0.73
1:B:284:ARG:HH22	1:J:100:SER:HA	1.52	0.73
1:B:293:THR:OG1	1:B:303:THR:OG1	2.06	0.73
1:B:409:PRO:HG3	1:B:432:TYR:CZ	2.23	0.73
1:C:70:ASP:O	1:C:503:ARG:NH2	2.20	0.73
1:C:409:PRO:HG3	1:C:432:TYR:CZ	2.23	0.73
1:F:341:HIS:NE2	1:Q:406:ASP:OD1	2.21	0.73
1:J:284:ARG:HH22	1:L:100:SER:HA	1.52	0.73
1:K:36:HIS:CE1	1:L:34:VAL:CA	2.71	0.73
1:L:468:SER:HB3	1:L:474:LEU:HD11	1.71	0.73
1:M:70:ASP:O	1:M:503:ARG:NH2	2.20	0.73
1:M:341:HIS:NE2	1:1:406:ASP:OD1	2.21	0.73
1:M:511:TRP:HE1	1:N:173:LEU:HD13	1.53	0.73
1:Q:36:HIS:CE1	1:S:34:VAL:CA	2.70	0.73
1:S:293:THR:OG1	1:S:303:THR:OG1	2.06	0.73
1:V:284:ARG:HD2	1:4:346:GLY:HA2	1.70	0.73
1:X:511:TRP:HE1	1:Y:173:LEU:HD13	1.54	0.73
1:g:293:THR:OG1	1:g:303:THR:OG1	2.06	0.73
1:s:293:THR:OG1	1:s:303:THR:OG1	2.06	0.73
1:D:341:HIS:NE2	1:P:406:ASP:OD1	2.20	0.73
1:E:293:THR:OG1	1:E:303:THR:OG1	2.06	0.73
1:H:100:SER:HA	1:Y:284:ARG:HH22	1.52	0.73
1:K:346:GLY:HA2	1:7:284:ARG:HD2	1.71	0.73
1:O:284:ARG:HH22	1:g:100:SER:HA	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:409:PRO:HG3	1:Q:432:TYR:CZ	2.23	0.73
1:R:173:LEU:HD13	1:V:511:TRP:HE1	1.54	0.73
1:1:409:PRO:HG3	1:1:432:TYR:CZ	2.23	0.73
1:5:98:ASN:CB	1:a:316:ARG:HH22	1.91	0.73
1:a:293:THR:OG1	1:a:303:THR:OG1	2.06	0.73
1:a:409:PRO:HG3	1:a:432:TYR:CZ	2.23	0.73
1:b:468:SER:HB3	1:b:474:LEU:HD11	1.71	0.73
1:c:284:ARG:HD2	1:d:346:GLY:HA2	1.71	0.73
1:d:70:ASP:O	1:d:503:ARG:NH2	2.20	0.73
1:g:406:ASP:OD1	1:h:341:HIS:NE2	2.21	0.73
1:l:293:THR:OG1	1:l:303:THR:OG1	2.06	0.73
1:u:284:ARG:HD2	1:v:346:GLY:HA2	1.70	0.73
1:v:293:THR:OG1	1:v:303:THR:OG1	2.06	0.73
1:C:34:VAL:CA	1:D:36:HIS:CE1	2.71	0.73
1:J:406:ASP:OD1	1:L:341:HIS:NE2	2.21	0.73
1:M:346:GLY:HA2	1:1:284:ARG:HD2	1.71	0.73
1:N:36:HIS:CE1	1:g:34:VAL:CA	2.71	0.73
1:P:293:THR:OG1	1:P:303:THR:OG1	2.06	0.73
1:R:293:THR:OG1	1:R:303:THR:OG1	2.06	0.73
1:U:293:THR:OG1	1:U:303:THR:OG1	2.06	0.73
1:V:284:ARG:HH22	1:4:100:SER:HA	1.52	0.73
1:V:468:SER:HB3	1:V:474:LEU:HD11	1.71	0.73
1:W:284:ARG:HD2	1:Y:346:GLY:HA2	1.70	0.73
1:d:511:TRP:HE1	1:r:173:LEU:HD13	1.53	0.73
1:g:409:PRO:HG3	1:g:432:TYR:CZ	2.23	0.73
1:j:293:THR:OG1	1:j:303:THR:OG1	2.06	0.73
1:n:36:HIS:CE1	1:z:34:VAL:CA	2.70	0.73
1:n:409:PRO:HG3	1:n:432:TYR:CZ	2.23	0.73
1:p:173:LEU:HD13	1:u:511:TRP:HE1	1.53	0.73
1:t:284:ARG:HH22	1:u:100:SER:HA	1.52	0.73
1:y:100:SER:HA	1:6:284:ARG:HH22	1.52	0.73
1:y:173:LEU:HD13	1:7:511:TRP:HE1	1.54	0.73
1:E:341:HIS:NE2	1:F:406:ASP:OD1	2.21	0.73
1:G:293:THR:OG1	1:G:303:THR:OG1	2.06	0.73
1:I:468:SER:HB3	1:I:474:LEU:HD11	1.71	0.73
1:S:409:PRO:HG3	1:S:432:TYR:CZ	2.23	0.73
1:U:409:PRO:HG3	1:U:432:TYR:CZ	2.23	0.73
1:X:173:LEU:HD13	1:5:511:TRP:HE1	1.52	0.73
1:Z:284:ARG:HH22	1:x:100:SER:HA	1.52	0.73
1:3:293:THR:OG1	1:3:303:THR:OG1	2.06	0.73
1:b:409:PRO:HG3	1:b:432:TYR:CZ	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:409:PRO:HG3	1:c:432:TYR:CZ	2.23	0.73
1:j:409:PRO:HG3	1:j:432:TYR:CZ	2.23	0.73
1:k:36:HIS:CE1	1:s:34:VAL:CA	2.70	0.73
1:l:409:PRO:HG3	1:l:432:TYR:CZ	2.23	0.73
1:q:341:HIS:NE2	1:s:406:ASP:OD1	2.21	0.73
1:y:293:THR:OG1	1:y:303:THR:OG1	2.06	0.73
1:y:346:GLY:HA2	1:6:284:ARG:HD2	1.70	0.73
1:z:409:PRO:HG3	1:z:432:TYR:CZ	2.23	0.73
1:6:409:PRO:HG3	1:6:432:TYR:CZ	2.23	0.73
1:D:173:LEU:HD13	1:E:511:TRP:HE1	1.53	0.72
1:H:406:ASP:OD1	1:W:341:HIS:NE2	2.21	0.72
1:I:409:PRO:HG3	1:I:432:TYR:CZ	2.23	0.72
1:K:284:ARG:HD2	1:0:346:GLY:HA2	1.70	0.72
1:L:409:PRO:HG3	1:L:432:TYR:CZ	2.23	0.72
1:R:100:SER:HA	1:U:284:ARG:HH22	1.52	0.72
1:R:341:HIS:NE2	1:U:406:ASP:OD1	2.21	0.72
1:Z:284:ARG:HD2	1:x:346:GLY:HA2	1.70	0.72
1:1:70:ASP:O	1:1:503:ARG:NH2	2.20	0.72
1:3:409:PRO:HG3	1:3:432:TYR:CZ	2.23	0.72
1:e:34:VAL:CA	1:q:36:HIS:CE1	2.71	0.72
1:l:316:ARG:HH22	1:m:98:ASN:CB	1.92	0.72
1:o:406:ASP:OD1	1:p:341:HIS:NE2	2.21	0.72
1:p:468:SER:HB3	1:p:474:LEU:HD11	1.71	0.72
1:t:468:SER:HB3	1:t:474:LEU:HD11	1.71	0.72
1:v:468:SER:HB3	1:v:474:LEU:HD11	1.71	0.72
1:x:293:THR:OG1	1:x:303:THR:OG1	2.06	0.72
1:6:293:THR:OG1	1:6:303:THR:OG1	2.06	0.72
1:7:468:SER:HB3	1:7:474:LEU:HD11	1.71	0.72
1:C:173:LEU:HD13	1:D:511:TRP:HE1	1.54	0.72
1:E:468:SER:HB3	1:E:474:LEU:HD11	1.71	0.72
1:G:468:SER:HB3	1:G:474:LEU:HD11	1.71	0.72
1:H:293:THR:OG1	1:H:303:THR:OG1	2.06	0.72
1:H:346:GLY:HA2	1:Y:284:ARG:HD2	1.70	0.72
1:P:36:HIS:CE1	1:Q:34:VAL:CA	2.71	0.72
1:R:346:GLY:HA2	1:U:284:ARG:HD2	1.70	0.72
1:U:468:SER:HB3	1:U:474:LEU:HD11	1.71	0.72
1:Y:468:SER:HB3	1:Y:474:LEU:HD11	1.71	0.72
1:3:244:PHE:O	1:3:246:PRO:HD3	1.90	0.72
1:3:468:SER:HB3	1:3:474:LEU:HD11	1.71	0.72
1:5:94:ARG:HH11	1:a:424:ALA:HA	1.54	0.72
1:5:284:ARG:NH2	1:b:100:SER:HA	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:346:GLY:HA2	1:b:284:ARG:HD2	1.71	0.72
1:c:70:ASP:O	1:c:503:ARG:NH2	2.20	0.72
1:d:468:SER:HB3	1:d:474:LEU:HD11	1.71	0.72
1:j:468:SER:HB3	1:j:474:LEU:HD11	1.71	0.72
1:n:34:VAL:CA	1:s:36:HIS:CE1	2.71	0.72
1:p:511:TRP:HE1	1:q:173:LEU:HD13	1.53	0.72
1:t:409:PRO:HG3	1:t:432:TYR:CZ	2.23	0.72
1:v:409:PRO:HG3	1:v:432:TYR:CZ	2.23	0.72
1:w:341:HIS:NE2	1:x:406:ASP:OD1	2.21	0.72
1:w:468:SER:HB3	1:w:474:LEU:HD11	1.71	0.72
1:6:468:SER:HB3	1:6:474:LEU:HD11	1.71	0.72
1:F:36:HIS:CE1	1:G:34:VAL:CG2	2.72	0.72
1:F:173:LEU:HD13	1:R:511:TRP:HE1	1.53	0.72
1:G:409:PRO:HG3	1:G:432:TYR:CZ	2.23	0.72
1:H:409:PRO:HG3	1:H:432:TYR:CZ	2.23	0.72
1:N:244:PHE:O	1:N:246:PRO:HD3	1.90	0.72
1:S:468:SER:HB3	1:S:474:LEU:HD11	1.71	0.72
1:X:346:GLY:HA2	1:4:284:ARG:HD2	1.70	0.72
1:0:284:ARG:HD2	1:7:346:GLY:HA2	1.70	0.72
1:a:511:TRP:HE1	1:u:173:LEU:HD13	1.54	0.72
1:e:173:LEU:HD13	1:q:511:TRP:HE1	1.54	0.72
1:h:409:PRO:HG3	1:h:432:TYR:CZ	2.23	0.72
1:j:173:LEU:HD13	1:z:511:TRP:HE1	1.54	0.72
1:j:244:PHE:O	1:j:246:PRO:HD3	1.90	0.72
1:l:34:VAL:CA	1:r:36:HIS:CE1	2.71	0.72
1:l:468:SER:HB3	1:l:474:LEU:HD11	1.71	0.72
1:m:409:PRO:HG3	1:m:432:TYR:CZ	2.23	0.72
1:o:36:HIS:CE1	1:v:34:VAL:CG2	2.72	0.72
1:x:409:PRO:HG3	1:x:432:TYR:CZ	2.23	0.72
1:y:341:HIS:NE2	1:6:406:ASP:OD1	2.21	0.72
1:z:468:SER:HB3	1:z:474:LEU:HD11	1.71	0.72
1:A:100:SER:HA	1:I:284:ARG:HH22	1.52	0.72
1:C:244:PHE:O	1:C:246:PRO:HD3	1.90	0.72
1:H:36:HIS:CE1	1:I:34:VAL:CG2	2.72	0.72
1:I:244:PHE:O	1:I:246:PRO:HD3	1.90	0.72
1:K:468:SER:HB3	1:K:474:LEU:HD11	1.71	0.72
1:M:468:SER:HB3	1:M:474:LEU:HD11	1.71	0.72
1:S:511:TRP:HE1	1:3:173:LEU:HD13	1.53	0.72
1:V:346:GLY:HA2	1:X:284:ARG:HD2	1.70	0.72
1:W:244:PHE:O	1:W:246:PRO:HD3	1.90	0.72
1:W:468:SER:HB3	1:W:474:LEU:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:468:SER:HB3	1:Z:474:LEU:HD11	1.71	0.72
1:5:156:THR:HG21	1:t:165:GLN:HE21	1.54	0.72
1:5:284:ARG:HD2	1:b:346:GLY:HA2	1.70	0.72
1:b:165:GLN:HE21	1:c:156:THR:HG21	1.55	0.72
1:g:244:PHE:O	1:g:246:PRO:HD3	1.90	0.72
1:g:468:SER:HB3	1:g:474:LEU:HD11	1.71	0.72
1:i:70:ASP:O	1:i:503:ARG:NH2	2.20	0.72
1:l:244:PHE:O	1:l:246:PRO:HD3	1.90	0.72
1:o:173:LEU:HD13	1:y:511:TRP:HE1	1.53	0.72
1:r:244:PHE:O	1:r:246:PRO:HD3	1.90	0.72
1:t:244:PHE:O	1:t:246:PRO:HD3	1.90	0.72
1:A:33:GLY:CA	1:B:36:HIS:CE1	2.72	0.72
1:H:468:SER:HB3	1:H:474:LEU:HD11	1.71	0.72
1:H:511:TRP:HE1	1:I:173:LEU:HD13	1.53	0.72
1:K:173:LEU:HD13	1:6:511:TRP:HE1	1.53	0.72
1:P:244:PHE:O	1:P:246:PRO:HD3	1.90	0.72
1:V:34:VAL:CG2	1:W:36:HIS:CE1	2.72	0.72
1:4:468:SER:HB3	1:4:474:LEU:HD11	1.71	0.72
1:d:244:PHE:O	1:d:246:PRO:HD3	1.90	0.72
1:g:36:HIS:CE1	1:m:34:VAL:CA	2.70	0.72
1:h:34:VAL:CA	1:l:36:HIS:CE1	2.70	0.72
1:q:346:GLY:HA2	1:s:284:ARG:HD2	1.71	0.72
1:s:244:PHE:O	1:s:246:PRO:HD3	1.90	0.72
1:t:34:VAL:CG2	1:x:36:HIS:CE1	2.72	0.72
1:w:36:HIS:CE1	1:7:34:VAL:CG2	2.72	0.72
1:w:244:PHE:O	1:w:246:PRO:HD3	1.90	0.72
1:y:284:ARG:HD2	1:z:346:GLY:HA2	1.70	0.72
1:B:468:SER:HB3	1:B:474:LEU:HD11	1.71	0.72
1:D:293:THR:OG1	1:D:303:THR:OG1	2.06	0.72
1:D:346:GLY:HA2	1:P:284:ARG:HD2	1.70	0.72
1:F:34:VAL:CG2	1:R:36:HIS:CE1	2.73	0.72
1:O:346:GLY:HA2	1:h:284:ARG:HD2	1.70	0.72
1:T:36:HIS:CE1	1:U:34:VAL:CA	2.70	0.72
1:T:70:ASP:O	1:T:503:ARG:NH2	2.20	0.72
1:V:409:PRO:HG3	1:V:432:TYR:CZ	2.23	0.72
1:X:244:PHE:O	1:X:246:PRO:HD3	1.90	0.72
1:0:244:PHE:O	1:0:246:PRO:HD3	1.90	0.72
1:a:468:SER:HB3	1:a:474:LEU:HD11	1.71	0.72
1:b:36:HIS:CE1	1:c:33:GLY:N	2.58	0.72
1:c:346:GLY:HA2	1:e:284:ARG:HD2	1.70	0.72
1:e:244:PHE:O	1:e:246:PRO:HD3	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:244:PHE:O	1:i:246:PRO:HD3	1.90	0.72
1:k:409:PRO:HG3	1:k:432:TYR:CZ	2.23	0.72
1:n:70:ASP:O	1:n:503:ARG:NH2	2.20	0.72
1:n:468:SER:HB3	1:n:474:LEU:HD11	1.71	0.72
1:o:34:VAL:CG2	1:y:36:HIS:CE1	2.73	0.72
1:y:409:PRO:HG3	1:y:432:TYR:CZ	2.23	0.72
1:6:244:PHE:O	1:6:246:PRO:HD3	1.90	0.72
1:7:409:PRO:HG3	1:7:432:TYR:CZ	2.23	0.72
1:B:284:ARG:HD2	1:J:346:GLY:HA2	1.71	0.72
1:B:424:ALA:HA	1:J:94:ARG:HH11	1.55	0.72
1:H:284:ARG:HD2	1:W:346:GLY:HA2	1.71	0.72
1:I:70:ASP:O	1:I:503:ARG:NH2	2.20	0.72
1:M:244:PHE:O	1:M:246:PRO:HD3	1.90	0.72
1:N:36:HIS:CE1	1:g:34:VAL:CG2	2.73	0.72
1:O:409:PRO:HG3	1:O:432:TYR:CZ	2.23	0.72
1:Q:70:ASP:O	1:Q:503:ARG:NH2	2.20	0.72
1:R:284:ARG:HD2	1:S:346:GLY:HA2	1.71	0.72
1:R:409:PRO:HG3	1:R:432:TYR:CZ	2.23	0.72
1:T:244:PHE:O	1:T:246:PRO:HD3	1.90	0.72
1:U:511:TRP:HE1	1:4:173:LEU:HD13	1.53	0.72
1:g:284:ARG:HH22	1:h:100:SER:HA	1.52	0.72
1:g:511:TRP:HE1	1:m:173:LEU:HD13	1.53	0.72
1:h:173:LEU:HD13	1:l:511:TRP:HE1	1.53	0.72
1:i:36:HIS:CE1	1:6:34:VAL:CA	2.70	0.72
1:k:346:GLY:HA2	1:m:284:ARG:HD2	1.71	0.72
1:q:293:THR:OG1	1:q:303:THR:OG1	2.06	0.72
1:w:37:SER:HG	1:7:257:ARG:CG	1.87	0.72
1:w:346:GLY:HA2	1:x:284:ARG:HD2	1.71	0.72
1:x:468:SER:HB3	1:x:474:LEU:HD11	1.71	0.72
1:A:244:PHE:O	1:A:246:PRO:HD3	1.90	0.72
1:C:284:ARG:HD2	1:1:346:GLY:HA2	1.70	0.72
1:O:36:HIS:CE1	1:P:34:VAL:CG2	2.72	0.72
1:T:346:GLY:HA2	1:f:284:ARG:HD2	1.70	0.72
1:U:244:PHE:O	1:U:246:PRO:HD3	1.90	0.72
1:W:293:THR:OG1	1:W:303:THR:OG1	2.06	0.72
1:Y:244:PHE:O	1:Y:246:PRO:HD3	1.90	0.72
1:Y:293:THR:OG1	1:Y:303:THR:OG1	2.06	0.72
1:Z:293:THR:OG1	1:Z:303:THR:OG1	2.06	0.72
1:f:468:SER:HB3	1:f:474:LEU:HD11	1.71	0.72
1:h:70:ASP:O	1:h:503:ARG:NH2	2.20	0.72
1:m:70:ASP:O	1:m:503:ARG:NH2	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:70:ASP:O	1:t:503:ARG:NH2	2.20	0.72
1:u:244:PHE:O	1:u:246:PRO:HD3	1.90	0.72
1:u:409:PRO:HG3	1:u:432:TYR:CZ	2.23	0.72
1:A:94:ARG:HH11	1:I:424:ALA:HA	1.55	0.72
1:A:409:PRO:HG3	1:A:432:TYR:CZ	2.23	0.72
1:B:94:ARG:HH11	1:L:424:ALA:HA	1.55	0.72
1:D:424:ALA:HA	1:N:94:ARG:HH11	1.55	0.72
1:F:244:PHE:O	1:F:246:PRO:HD3	1.90	0.72
1:H:33:GLY:C	1:Z:36:HIS:CE1	2.44	0.72
1:I:293:THR:OG1	1:I:303:THR:OG1	2.06	0.72
1:L:36:HIS:CE1	1:1:34:VAL:CG2	2.73	0.72
1:Q:468:SER:HB3	1:Q:474:LEU:HD11	1.71	0.72
1:R:468:SER:HB3	1:R:474:LEU:HD11	1.71	0.72
1:2:284:ARG:HD2	1:i:346:GLY:HA2	1.70	0.72
1:2:468:SER:HB3	1:2:474:LEU:HD11	1.71	0.72
1:3:498:GLY:O	1:3:502:SER:HB2	1.90	0.72
1:b:36:HIS:C	1:c:257:ARG:HD3	2.15	0.72
1:j:498:GLY:O	1:j:502:SER:HB2	1.90	0.72
1:n:244:PHE:O	1:n:246:PRO:HD3	1.90	0.72
1:q:284:ARG:HD2	1:r:346:GLY:HA2	1.70	0.72
1:q:424:ALA:HA	1:r:94:ARG:HH11	1.55	0.72
1:w:293:THR:OG1	1:w:303:THR:OG1	2.06	0.72
1:A:108:PRO:O	1:A:485:LYS:HD3	1.90	0.72
1:A:293:THR:OG1	1:A:303:THR:OG1	2.06	0.72
1:D:468:SER:HB3	1:D:474:LEU:HD11	1.71	0.72
1:E:244:PHE:O	1:E:246:PRO:HD3	1.90	0.72
1:G:36:HIS:CE1	1:W:34:VAL:CG2	2.73	0.72
1:J:424:ALA:HA	1:L:94:ARG:HH11	1.55	0.72
1:O:156:THR:HG21	1:3:165:GLN:HE21	1.55	0.72
1:Q:244:PHE:O	1:Q:246:PRO:HD3	1.90	0.72
1:S:36:HIS:CE1	1:3:34:VAL:CA	2.70	0.72
1:Z:244:PHE:O	1:Z:246:PRO:HD3	1.90	0.72
1:4:244:PHE:O	1:4:246:PRO:HD3	1.90	0.72
1:5:293:THR:OG1	1:5:303:THR:OG1	2.06	0.72
1:b:36:HIS:CE1	1:c:33:GLY:C	2.43	0.72
1:f:70:ASP:O	1:f:503:ARG:NH2	2.20	0.72
1:j:70:ASP:O	1:j:503:ARG:NH2	2.20	0.72
1:k:36:HIS:CE1	1:s:34:VAL:CG2	2.72	0.72
1:l:34:VAL:CG2	1:r:36:HIS:CE1	2.73	0.72
1:l:284:ARG:HH22	1:m:100:SER:HA	1.52	0.72
1:m:244:PHE:O	1:m:246:PRO:HD3	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:244:PHE:O	1:o:246:PRO:HD3	1.90	0.72
1:t:173:LEU:HD13	1:x:511:TRP:HE1	1.54	0.72
1:u:468:SER:HB3	1:u:474:LEU:HD11	1.71	0.72
1:y:468:SER:HB3	1:y:474:LEU:HD11	1.71	0.72
1:A:173:LEU:HD13	1:B:511:TRP:HE1	1.54	0.71
1:A:346:GLY:HA2	1:I:284:ARG:HD2	1.70	0.71
1:A:511:TRP:HE1	1:E:173:LEU:HD13	1.54	0.71
1:D:34:VAL:CG2	1:E:36:HIS:CE1	2.72	0.71
1:D:284:ARG:HD2	1:N:346:GLY:HA2	1.70	0.71
1:F:156:THR:HG21	1:R:165:GLN:HE21	1.55	0.71
1:J:284:ARG:HD2	1:L:346:GLY:HA2	1.70	0.71
1:K:108:PRO:O	1:K:485:LYS:HD3	1.90	0.71
1:K:498:GLY:O	1:K:502:SER:HB2	1.90	0.71
1:O:109:TRP:CZ3	1:O:485:LYS:CB	2.73	0.71
1:O:284:ARG:HD2	1:g:346:GLY:HA2	1.70	0.71
1:Q:498:GLY:O	1:Q:502:SER:HB2	1.90	0.71
1:R:108:PRO:O	1:R:485:LYS:HD3	1.90	0.71
1:1:293:THR:OG1	1:1:303:THR:OG1	2.06	0.71
1:1:468:SER:HB3	1:1:474:LEU:HD11	1.71	0.71
1:3:70:ASP:O	1:3:503:ARG:NH2	2.20	0.71
1:4:498:GLY:O	1:4:502:SER:HB2	1.90	0.71
1:5:346:GLY:HA2	1:a:284:ARG:HD2	1.71	0.71
1:a:173:LEU:HD13	1:e:511:TRP:HE1	1.53	0.71
1:h:293:THR:OG1	1:h:303:THR:OG1	2.06	0.71
1:i:424:ALA:HA	1:j:94:ARG:HH11	1.55	0.71
1:k:284:ARG:HD2	1:l:346:GLY:HA2	1.70	0.71
1:k:424:ALA:HA	1:l:94:ARG:HH11	1.55	0.71
1:o:284:ARG:HD2	1:p:346:GLY:HA2	1.71	0.71
1:p:36:HIS:CE1	1:q:34:VAL:CG2	2.72	0.71
1:t:293:THR:OG1	1:t:303:THR:OG1	2.06	0.71
1:u:108:PRO:O	1:u:485:LYS:HD3	1.91	0.71
1:z:284:ARG:HD2	1:6:346:GLY:HA2	1.71	0.71
1:7:70:ASP:O	1:7:503:ARG:NH2	2.20	0.71
1:A:468:SER:HB3	1:A:474:LEU:HD11	1.71	0.71
1:B:316:ARG:HH22	1:J:98:ASN:CB	1.92	0.71
1:E:346:GLY:HA2	1:F:284:ARG:HD2	1.71	0.71
1:F:468:SER:HB3	1:F:474:LEU:HD11	1.71	0.71
1:L:293:THR:OG1	1:L:303:THR:OG1	2.06	0.71
1:N:468:SER:HB3	1:N:474:LEU:HD11	1.71	0.71
1:N:511:TRP:HE1	1:g:173:LEU:HD13	1.53	0.71
1:O:293:THR:OG1	1:O:303:THR:OG1	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:108:PRO:O	1:P:485:LYS:HD3	1.91	0.71
1:R:34:VAL:CA	1:V:36:HIS:CE1	2.71	0.71
1:T:424:ALA:HA	1:3:94:ARG:HH11	1.56	0.71
1:U:498:GLY:O	1:U:502:SER:HB2	1.90	0.71
1:V:70:ASP:O	1:V:503:ARG:NH2	2.20	0.71
1:V:257:ARG:CG	1:W:37:SER:HG	1.88	0.71
1:X:468:SER:HB3	1:X:474:LEU:HD11	1.71	0.71
1:0:468:SER:HB3	1:0:474:LEU:HD11	1.71	0.71
1:2:70:ASP:O	1:2:503:ARG:NH2	2.20	0.71
1:4:36:HIS:C	1:b:257:ARG:HD2	2.16	0.71
1:4:108:PRO:O	1:4:485:LYS:HD3	1.90	0.71
1:b:293:THR:OG1	1:b:303:THR:OG1	2.06	0.71
1:c:293:THR:OG1	1:c:303:THR:OG1	2.06	0.71
1:k:109:TRP:CZ3	1:k:485:LYS:CB	2.73	0.71
1:k:244:PHE:O	1:k:246:PRO:HD3	1.90	0.71
1:m:293:THR:OG1	1:m:303:THR:OG1	2.06	0.71
1:n:173:LEU:HD13	1:s:511:TRP:HE1	1.54	0.71
1:n:498:GLY:O	1:n:502:SER:HB2	1.90	0.71
1:o:156:THR:HG21	1:y:165:GLN:HE21	1.56	0.71
1:p:244:PHE:O	1:p:246:PRO:HD3	1.90	0.71
1:q:316:ARG:HH22	1:r:98:ASN:CB	1.92	0.71
1:q:468:SER:HB3	1:q:474:LEU:HD11	1.71	0.71
1:r:468:SER:HB3	1:r:474:LEU:HD11	1.71	0.71
1:s:108:PRO:O	1:s:485:LYS:HD3	1.91	0.71
1:u:293:THR:OG1	1:u:303:THR:OG1	2.06	0.71
1:v:36:HIS:CE1	1:w:34:VAL:CG2	2.73	0.71
1:6:498:GLY:O	1:6:502:SER:HB2	1.90	0.71
1:B:173:LEU:HD13	1:C:511:TRP:HE1	1.53	0.71
1:D:94:ARG:HH11	1:P:424:ALA:HA	1.55	0.71
1:D:316:ARG:HH22	1:N:98:ASN:CB	1.92	0.71
1:E:109:TRP:CZ3	1:E:485:LYS:CB	2.73	0.71
1:J:293:THR:OG1	1:J:303:THR:OG1	2.06	0.71
1:J:511:TRP:HE1	1:0:173:LEU:HD13	1.53	0.71
1:K:94:ARG:HH11	1:7:424:ALA:HA	1.55	0.71
1:K:244:PHE:O	1:K:246:PRO:HD3	1.90	0.71
1:M:36:HIS:CE1	1:N:34:VAL:CG2	2.72	0.71
1:M:108:PRO:O	1:M:485:LYS:HD3	1.90	0.71
1:N:424:ALA:HA	1:P:94:ARG:HH11	1.55	0.71
1:O:244:PHE:O	1:O:246:PRO:HD3	1.90	0.71
1:O:424:ALA:HA	1:g:94:ARG:HH11	1.55	0.71
1:Q:332:GLY:HA2	1:Q:353:GLN:HE22	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:34:VAL:CG2	1:V:36:HIS:CE1	2.73	0.71
1:R:109:TRP:CZ3	1:R:485:LYS:CB	2.73	0.71
1:S:284:ARG:HD2	1:U:346:GLY:HA2	1.71	0.71
1:T:36:HIS:CE1	1:U:34:VAL:CG2	2.73	0.71
1:T:284:ARG:HD2	1:3:346:GLY:HA2	1.70	0.71
1:V:244:PHE:O	1:V:246:PRO:HD3	1.90	0.71
1:V:424:ALA:HA	1:4:94:ARG:HH11	1.55	0.71
1:X:34:VAL:CG2	1:5:36:HIS:CE1	2.71	0.71
1:Z:94:ARG:HH11	1:w:424:ALA:HA	1.55	0.71
1:5:498:GLY:O	1:5:502:SER:HB2	1.90	0.71
1:c:468:SER:HB3	1:c:474:LEU:HD11	1.71	0.71
1:h:244:PHE:O	1:h:246:PRO:HD3	1.90	0.71
1:j:34:VAL:CA	1:z:36:HIS:CE1	2.70	0.71
1:k:293:THR:OG1	1:k:303:THR:OG1	2.06	0.71
1:l:173:LEU:HD13	1:r:511:TRP:HE1	1.53	0.71
1:o:468:SER:HB3	1:o:474:LEU:HD11	1.71	0.71
1:p:109:TRP:CZ3	1:p:485:LYS:CB	2.73	0.71
1:q:94:ARG:HH11	1:s:424:ALA:HA	1.55	0.71
1:y:108:PRO:O	1:y:485:LYS:HD3	1.91	0.71
1:y:109:TRP:CZ3	1:y:485:LYS:CB	2.73	0.71
1:7:244:PHE:O	1:7:246:PRO:HD3	1.90	0.71
1:A:109:TRP:CZ3	1:A:485:LYS:CB	2.73	0.71
1:A:165:GLN:HE21	1:E:156:THR:HG21	1.54	0.71
1:A:498:GLY:O	1:A:502:SER:HB2	1.90	0.71
1:B:109:TRP:CZ3	1:B:485:LYS:CB	2.73	0.71
1:C:109:TRP:CZ3	1:C:485:LYS:CB	2.73	0.71
1:E:94:ARG:HH11	1:F:424:ALA:HA	1.55	0.71
1:J:244:PHE:O	1:J:246:PRO:HD3	1.90	0.71
1:J:498:GLY:O	1:J:502:SER:HB2	1.90	0.71
1:L:498:GLY:O	1:L:502:SER:HB2	1.90	0.71
1:M:36:HIS:CE1	1:N:33:GLY:C	2.45	0.71
1:P:511:TRP:HE1	1:Q:173:LEU:HD13	1.54	0.71
1:Q:37:SER:HG	1:S:257:ARG:HG2	0.89	0.71
1:T:34:VAL:CG2	1:c:36:HIS:CE1	2.72	0.71
1:U:332:GLY:HA2	1:U:353:GLN:HE22	1.56	0.71
1:V:293:THR:OG1	1:V:303:THR:OG1	2.06	0.71
1:0:108:PRO:O	1:0:485:LYS:HD3	1.91	0.71
1:1:36:HIS:CE1	1:i:33:GLY:C	2.45	0.71
1:3:332:GLY:HA2	1:3:353:GLN:HE22	1.56	0.71
1:a:109:TRP:CZ3	1:a:485:LYS:CB	2.73	0.71
1:b:36:HIS:C	1:c:257:ARG:HD2	2.12	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:498:GLY:O	1:b:502:SER:HB2	1.90	0.71
1:d:36:HIS:CE1	1:r:33:GLY:C	2.45	0.71
1:d:108:PRO:O	1:d:485:LYS:HD3	1.91	0.71
1:d:332:GLY:HA2	1:d:353:GLN:HE22	1.56	0.71
1:e:108:PRO:O	1:e:485:LYS:HD3	1.90	0.71
1:g:70:ASP:O	1:g:503:ARG:NH2	2.20	0.71
1:i:284:ARG:HD2	1:j:346:GLY:HA2	1.70	0.71
1:j:332:GLY:HA2	1:j:353:GLN:HE22	1.56	0.71
1:r:332:GLY:HA2	1:r:353:GLN:HE22	1.56	0.71
1:t:308:ILE:HG23	1:t:309:ASN:HB3	1.73	0.71
1:v:108:PRO:O	1:v:485:LYS:HD3	1.90	0.71
1:y:34:VAL:CG2	1:7:36:HIS:CE1	2.73	0.71
1:y:34:VAL:CA	1:7:36:HIS:CE1	2.71	0.71
1:7:293:THR:OG1	1:7:303:THR:OG1	2.06	0.71
1:C:108:PRO:O	1:C:485:LYS:HD3	1.90	0.71
1:C:156:THR:HG21	1:D:165:GLN:HE21	1.56	0.71
1:D:332:GLY:HA2	1:D:353:GLN:HE22	1.56	0.71
1:F:98:ASN:CB	1:Q:316:ARG:HH22	1.92	0.71
1:I:308:ILE:HG23	1:I:309:ASN:HB3	1.73	0.71
1:K:34:VAL:CG2	1:6:36:HIS:CE1	2.72	0.71
1:M:109:TRP:CZ3	1:M:485:LYS:CB	2.73	0.71
1:M:332:GLY:HA2	1:M:353:GLN:HE22	1.56	0.71
1:N:332:GLY:HA2	1:N:353:GLN:HE22	1.56	0.71
1:N:379:TYR:HD2	1:N:392:GLU:HG3	1.56	0.71
1:O:94:ARG:HH11	1:h:424:ALA:HA	1.55	0.71
1:P:379:TYR:HD2	1:P:392:GLU:HG3	1.56	0.71
1:S:308:ILE:HG23	1:S:309:ASN:HB3	1.73	0.71
1:T:109:TRP:CZ3	1:T:485:LYS:CB	2.73	0.71
1:U:36:HIS:CE1	1:4:34:VAL:CG2	2.72	0.71
1:U:109:TRP:CZ3	1:U:485:LYS:CB	2.73	0.71
1:V:108:PRO:O	1:V:485:LYS:HD3	1.90	0.71
1:W:424:ALA:HA	1:Y:94:ARG:HH11	1.55	0.71
1:X:108:PRO:O	1:X:485:LYS:HD3	1.91	0.71
1:Y:109:TRP:CZ3	1:Y:485:LYS:CB	2.73	0.71
1:Z:109:TRP:CZ3	1:Z:485:LYS:CB	2.73	0.71
1:2:108:PRO:O	1:2:485:LYS:HD3	1.90	0.71
1:4:332:GLY:HA2	1:4:353:GLN:HE22	1.56	0.71
1:5:244:PHE:O	1:5:246:PRO:HD3	1.90	0.71
1:5:308:ILE:HG23	1:5:309:ASN:HB3	1.73	0.71
1:b:244:PHE:O	1:b:246:PRO:HD3	1.89	0.71
1:d:36:HIS:CE1	1:r:34:VAL:CG2	2.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:109:TRP:CZ3	1:e:485:LYS:CB	2.73	0.71
1:f:108:PRO:O	1:f:485:LYS:HD3	1.90	0.71
1:g:379:TYR:HD2	1:g:392:GLU:HG3	1.56	0.71
1:i:36:HIS:CE1	1:6:34:VAL:CG2	2.73	0.71
1:i:109:TRP:CZ3	1:i:485:LYS:CB	2.73	0.71
1:l:379:TYR:HD2	1:l:392:GLU:HG3	1.56	0.71
1:n:332:GLY:HA2	1:n:353:GLN:HE22	1.56	0.71
1:q:332:GLY:HA2	1:q:353:GLN:HE22	1.56	0.71
1:r:379:TYR:HD2	1:r:392:GLU:HG3	1.56	0.71
1:r:424:ALA:HA	1:s:94:ARG:HH11	1.55	0.71
1:u:109:TRP:CZ3	1:u:485:LYS:CB	2.73	0.71
1:u:498:GLY:O	1:u:502:SER:HB2	1.90	0.71
1:6:109:TRP:CZ3	1:6:485:LYS:CB	2.73	0.71
1:D:244:PHE:O	1:D:246:PRO:HD3	1.90	0.71
1:G:108:PRO:O	1:G:485:LYS:HD3	1.91	0.71
1:I:165:GLN:HE21	1:J:156:THR:HG21	1.55	0.71
1:I:332:GLY:HA2	1:I:353:GLN:HE22	1.56	0.71
1:M:165:GLN:HE21	1:N:156:THR:HG21	1.56	0.71
1:U:108:PRO:O	1:U:485:LYS:HD3	1.90	0.71
1:V:109:TRP:CZ3	1:V:485:LYS:CB	2.73	0.71
1:Z:379:TYR:HD2	1:Z:392:GLU:HG3	1.56	0.71
1:2:244:PHE:O	1:2:246:PRO:HD3	1.90	0.71
1:4:109:TRP:CZ3	1:4:485:LYS:CB	2.73	0.71
1:c:94:ARG:HH11	1:e:424:ALA:HA	1.55	0.71
1:d:109:TRP:CZ3	1:d:485:LYS:CB	2.73	0.71
1:d:165:GLN:HE21	1:r:156:THR:HG21	1.56	0.71
1:e:156:THR:HG21	1:q:165:GLN:HE21	1.56	0.71
1:h:34:VAL:CG2	1:l:36:HIS:CE1	2.73	0.71
1:j:165:GLN:HE21	1:k:156:THR:HG21	1.56	0.71
1:j:308:ILE:HG23	1:j:309:ASN:HB3	1.73	0.71
1:l:498:GLY:O	1:l:502:SER:HB2	1.90	0.71
1:n:316:ARG:HH22	1:o:98:ASN:CB	1.92	0.71
1:o:424:ALA:HA	1:p:94:ARG:HH11	1.55	0.71
1:s:379:TYR:HD2	1:s:392:GLU:HG3	1.56	0.71
1:t:284:ARG:HD2	1:u:346:GLY:HA2	1.71	0.71
1:y:379:TYR:HD2	1:y:392:GLU:HG3	1.56	0.71
1:z:308:ILE:HG23	1:z:309:ASN:HB3	1.73	0.71
1:6:332:GLY:HA2	1:6:353:GLN:HE22	1.56	0.71
1:7:108:PRO:O	1:7:485:LYS:HD3	1.91	0.71
1:7:109:TRP:CZ3	1:7:485:LYS:CB	2.73	0.71
1:A:36:HIS:CE1	1:E:33:GLY:C	2.45	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:THR:HG21	1:B:165:GLN:HE21	1.55	0.71
1:F:109:TRP:CZ3	1:F:485:LYS:CB	2.73	0.71
1:J:308:ILE:HG23	1:J:309:ASN:HB3	1.73	0.71
1:K:109:TRP:CZ3	1:K:485:LYS:CB	2.73	0.71
1:K:332:GLY:HA2	1:K:353:GLN:HE22	1.56	0.71
1:K:511:TRP:HE1	1:L:173:LEU:HD13	1.54	0.71
1:L:332:GLY:HA2	1:L:353:GLN:HE22	1.56	0.71
1:O:332:GLY:HA2	1:O:353:GLN:HE22	1.56	0.71
1:Q:308:ILE:HG23	1:Q:309:ASN:HB3	1.73	0.71
1:S:424:ALA:HA	1:U:94:ARG:HH11	1.55	0.71
1:W:108:PRO:O	1:W:485:LYS:HD3	1.90	0.71
1:Y:379:TYR:HD2	1:Y:392:GLU:HG3	1.56	0.71
1:1:36:HIS:CE1	1:i:34:VAL:CG2	2.72	0.71
1:1:308:ILE:HG23	1:1:309:ASN:HB3	1.73	0.71
1:2:34:VAL:CG2	1:m:36:HIS:CE1	2.72	0.71
1:b:332:GLY:HA2	1:b:353:GLN:HE22	1.56	0.71
1:c:308:ILE:HG23	1:c:309:ASN:HB3	1.73	0.71
1:d:293:THR:OG1	1:d:303:THR:OG1	2.06	0.71
1:e:34:VAL:CG2	1:q:36:HIS:CE1	2.73	0.71
1:f:109:TRP:CZ3	1:f:485:LYS:CB	2.73	0.71
1:h:468:SER:HB3	1:h:474:LEU:HD11	1.71	0.71
1:k:94:ARG:HH11	1:m:424:ALA:HA	1.55	0.71
1:k:332:GLY:HA2	1:k:353:GLN:HE22	1.56	0.71
1:l:70:ASP:O	1:l:503:ARG:NH2	2.20	0.71
1:m:468:SER:HB3	1:m:474:LEU:HD11	1.71	0.71
1:n:109:TRP:CZ3	1:n:485:LYS:CB	2.73	0.71
1:o:109:TRP:CZ3	1:o:485:LYS:CB	2.74	0.71
1:q:244:PHE:O	1:q:246:PRO:HD3	1.90	0.71
1:t:332:GLY:HA2	1:t:353:GLN:HE22	1.56	0.71
1:x:244:PHE:O	1:x:246:PRO:HD3	1.90	0.71
1:y:244:PHE:O	1:y:246:PRO:HD3	1.90	0.71
1:D:156:THR:HG21	1:E:165:GLN:HE21	1.56	0.71
1:G:244:PHE:O	1:G:246:PRO:HD3	1.90	0.71
1:G:424:ALA:HA	1:I:94:ARG:HH11	1.55	0.71
1:H:94:ARG:HH11	1:Y:424:ALA:HA	1.55	0.71
1:I:36:HIS:CE1	1:J:34:VAL:CG2	2.73	0.71
1:L:244:PHE:O	1:L:246:PRO:HD3	1.90	0.71
1:M:293:THR:OG1	1:M:303:THR:OG1	2.06	0.71
1:M:308:ILE:HG23	1:M:309:ASN:HB3	1.73	0.71
1:P:109:TRP:CZ3	1:P:485:LYS:CB	2.73	0.71
1:Q:109:TRP:CZ3	1:Q:485:LYS:CB	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:244:PHE:O	1:R:246:PRO:HD3	1.90	0.71
1:R:379:TYR:HD2	1:R:392:GLU:HG3	1.56	0.71
1:T:33:GLY:C	1:c:36:HIS:CE1	2.45	0.71
1:T:108:PRO:O	1:T:485:LYS:HD3	1.91	0.71
1:T:173:LEU:HD13	1:c:511:TRP:HE1	1.54	0.71
1:W:332:GLY:HA2	1:W:353:GLN:HE22	1.56	0.71
1:X:308:ILE:HG23	1:X:309:ASN:HB3	1.73	0.71
1:X:379:TYR:HD2	1:X:392:GLU:HG3	1.56	0.71
1:Y:108:PRO:O	1:Y:485:LYS:HD3	1.90	0.71
1:0:308:ILE:HG23	1:0:309:ASN:HB3	1.73	0.71
1:1:244:PHE:O	1:1:246:PRO:HD3	1.90	0.71
1:1:511:TRP:HE1	1:i:173:LEU:HD13	1.54	0.71
1:a:108:PRO:O	1:a:485:LYS:HD3	1.90	0.71
1:d:156:THR:HG21	1:f:165:GLN:HE21	1.55	0.71
1:f:244:PHE:O	1:f:246:PRO:HD3	1.90	0.71
1:f:308:ILE:HG23	1:f:309:ASN:HB3	1.73	0.71
1:g:36:HIS:CE1	1:m:34:VAL:CG2	2.73	0.71
1:g:498:GLY:O	1:g:502:SER:HB2	1.90	0.71
1:k:498:GLY:O	1:k:502:SER:HB2	1.90	0.71
1:n:308:ILE:HG23	1:n:309:ASN:HB3	1.73	0.71
1:o:70:ASP:O	1:o:503:ARG:NH2	2.20	0.71
1:p:165:GLN:HE21	1:q:156:THR:HG21	1.56	0.71
1:s:109:TRP:CZ3	1:s:485:LYS:CB	2.73	0.71
1:t:94:ARG:HH11	1:v:424:ALA:HA	1.55	0.71
1:t:424:ALA:HA	1:u:94:ARG:HH11	1.55	0.71
1:v:244:PHE:O	1:v:246:PRO:HD3	1.90	0.71
1:z:424:ALA:HA	1:6:94:ARG:HH11	1.55	0.71
1:6:108:PRO:O	1:6:485:LYS:HD3	1.90	0.71
1:B:244:PHE:O	1:B:246:PRO:HD3	1.90	0.71
1:C:34:VAL:CG2	1:D:36:HIS:CE1	2.73	0.71
1:C:308:ILE:HG23	1:C:309:ASN:HB3	1.73	0.71
1:C:424:ALA:HA	1:1:94:ARG:HH11	1.55	0.71
1:C:468:SER:HB3	1:C:474:LEU:HD11	1.71	0.71
1:D:108:PRO:O	1:D:485:LYS:HD3	1.91	0.71
1:E:424:ALA:HA	1:Q:94:ARG:HH11	1.55	0.71
1:G:284:ARG:HD2	1:I:346:GLY:HA2	1.71	0.71
1:H:244:PHE:O	1:H:246:PRO:HD3	1.90	0.71
1:J:316:ARG:HH22	1:L:98:ASN:CB	1.92	0.71
1:L:165:GLN:HE21	1:1:156:THR:HG21	1.56	0.71
1:M:156:THR:HG21	1:2:165:GLN:HE21	1.55	0.71
1:M:565:ASN:OD1	1:M:566:TYR:N	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:308:ILE:HG23	1:O:309:ASN:HB3	1.73	0.71
1:O:498:GLY:O	1:O:502:SER:HB2	1.90	0.71
1:P:308:ILE:HG23	1:P:309:ASN:HB3	1.73	0.71
1:P:468:SER:HB3	1:P:474:LEU:HD11	1.71	0.71
1:S:36:HIS:CE1	1:3:34:VAL:CG2	2.72	0.71
1:S:109:TRP:CZ3	1:S:485:LYS:CB	2.73	0.71
1:S:244:PHE:O	1:S:246:PRO:HD3	1.90	0.71
1:V:498:GLY:O	1:V:502:SER:HB2	1.90	0.71
1:X:94:ARG:HH11	1:4:424:ALA:HA	1.55	0.71
1:Z:108:PRO:O	1:Z:485:LYS:HD3	1.90	0.71
1:0:379:TYR:HD2	1:0:392:GLU:HG3	1.56	0.71
1:2:109:TRP:CZ3	1:2:485:LYS:CB	2.73	0.71
1:3:308:ILE:HG23	1:3:309:ASN:HB3	1.73	0.71
1:5:468:SER:HB3	1:5:474:LEU:HD11	1.71	0.71
1:c:109:TRP:CZ3	1:c:485:LYS:CB	2.73	0.71
1:d:308:ILE:HG23	1:d:309:ASN:HB3	1.73	0.71
1:e:308:ILE:HG23	1:e:309:ASN:HB3	1.73	0.71
1:f:173:LEU:HD13	1:h:511:TRP:HE1	1.53	0.71
1:f:332:GLY:HA2	1:f:353:GLN:HE22	1.56	0.71
1:h:379:TYR:HD2	1:h:392:GLU:HG3	1.56	0.71
1:i:108:PRO:O	1:i:485:LYS:HD3	1.90	0.71
1:k:308:ILE:HG23	1:k:309:ASN:HB3	1.73	0.71
1:m:109:TRP:CZ3	1:m:485:LYS:CB	2.74	0.71
1:s:308:ILE:HG23	1:s:309:ASN:HB3	1.73	0.71
1:t:379:TYR:HD2	1:t:392:GLU:HG3	1.56	0.71
1:w:108:PRO:O	1:w:485:LYS:HD3	1.90	0.71
1:x:379:TYR:HD2	1:x:392:GLU:HG3	1.56	0.71
1:7:332:GLY:HA2	1:7:353:GLN:HE22	1.56	0.71
1:A:424:ALA:HA	1:G:94:ARG:HH11	1.55	0.71
1:B:108:PRO:O	1:B:485:LYS:HD3	1.90	0.71
1:C:94:ARG:HH11	1:M:424:ALA:HA	1.55	0.71
1:C:332:GLY:HA2	1:C:353:GLN:HE22	1.56	0.71
1:E:565:ASN:OD1	1:E:566:TYR:N	2.24	0.71
1:F:70:ASP:O	1:F:503:ARG:NH2	2.20	0.71
1:H:565:ASN:OD1	1:H:566:TYR:N	2.24	0.71
1:J:36:HIS:CE1	1:0:34:VAL:CG2	2.72	0.71
1:J:109:TRP:CZ3	1:J:485:LYS:CB	2.73	0.71
1:L:109:TRP:CZ3	1:L:485:LYS:CB	2.73	0.71
1:V:332:GLY:HA2	1:V:353:GLN:HE22	1.56	0.71
1:W:379:TYR:HD2	1:W:392:GLU:HG3	1.56	0.71
1:0:70:ASP:O	1:0:503:ARG:NH2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:109:TRP:CZ3	1:1:485:LYS:CB	2.73	0.71
1:2:173:LEU:HD13	1:m:511:TRP:HE1	1.54	0.71
1:a:244:PHE:O	1:a:246:PRO:HD3	1.90	0.71
1:c:244:PHE:O	1:c:246:PRO:HD3	1.90	0.71
1:d:34:VAL:CG2	1:f:36:HIS:CE1	2.73	0.71
1:d:565:ASN:OD1	1:d:566:TYR:N	2.24	0.71
1:e:468:SER:HB3	1:e:474:LEU:HD11	1.71	0.71
1:g:308:ILE:HG23	1:g:309:ASN:HB3	1.73	0.71
1:g:565:ASN:OD1	1:g:566:TYR:N	2.24	0.71
1:h:109:TRP:CZ3	1:h:485:LYS:CB	2.73	0.71
1:j:34:VAL:CG2	1:z:36:HIS:CE1	2.72	0.71
1:j:379:TYR:HD2	1:j:392:GLU:HG3	1.56	0.71
1:l:308:ILE:HG23	1:l:309:ASN:HB3	1.73	0.71
1:l:565:ASN:OD1	1:l:566:TYR:N	2.24	0.71
1:m:332:GLY:HA2	1:m:353:GLN:HE22	1.56	0.71
1:n:94:ARG:HH11	1:p:424:ALA:HA	1.55	0.71
1:p:308:ILE:HG23	1:p:309:ASN:HB3	1.73	0.71
1:q:108:PRO:O	1:q:485:LYS:HD3	1.90	0.71
1:t:346:GLY:HA2	1:v:284:ARG:HD2	1.70	0.71
1:u:424:ALA:HA	1:v:94:ARG:HH11	1.56	0.71
1:v:165:GLN:HE21	1:w:156:THR:HG21	1.55	0.71
1:w:379:TYR:HD2	1:w:392:GLU:HG3	1.56	0.71
1:x:108:PRO:O	1:x:485:LYS:HD3	1.90	0.71
1:y:332:GLY:HA2	1:y:353:GLN:HE22	1.56	0.71
1:z:109:TRP:CZ3	1:z:485:LYS:CB	2.73	0.71
1:7:498:GLY:O	1:7:502:SER:HB2	1.90	0.71
1:E:308:ILE:HG23	1:E:309:ASN:HB3	1.73	0.70
1:G:565:ASN:OD1	1:G:566:TYR:N	2.24	0.70
1:I:109:TRP:CZ3	1:I:485:LYS:CB	2.73	0.70
1:I:379:TYR:HD2	1:I:392:GLU:HG3	1.56	0.70
1:J:468:SER:HB3	1:J:474:LEU:HD11	1.71	0.70
1:K:424:ALA:HA	1:0:94:ARG:HH11	1.55	0.70
1:R:565:ASN:OD1	1:R:566:TYR:N	2.24	0.70
1:T:468:SER:HB3	1:T:474:LEU:HD11	1.71	0.70
1:X:165:GLN:HE21	1:Y:156:THR:HG21	1.55	0.70
1:Y:36:HIS:CE1	1:x:33:GLY:C	2.44	0.70
1:Y:165:GLN:HE21	1:x:156:THR:HG21	1.55	0.70
1:2:308:ILE:HG23	1:2:309:ASN:HB3	1.73	0.70
1:2:332:GLY:HA2	1:2:353:GLN:HE22	1.56	0.70
1:a:332:GLY:HA2	1:a:353:GLN:HE22	1.56	0.70
1:a:379:TYR:HD2	1:a:392:GLU:HG3	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:108:PRO:O	1:b:485:LYS:HD3	1.90	0.70
1:b:109:TRP:CZ3	1:b:485:LYS:CB	2.73	0.70
1:h:332:GLY:HA2	1:h:353:GLN:HE22	1.56	0.70
1:i:468:SER:HB3	1:i:474:LEU:HD11	1.71	0.70
1:m:379:TYR:HD2	1:m:392:GLU:HG3	1.56	0.70
1:n:424:ALA:HA	1:o:94:ARG:HH11	1.55	0.70
1:p:565:ASN:OD1	1:p:566:TYR:N	2.24	0.70
1:r:108:PRO:O	1:r:485:LYS:HD3	1.90	0.70
1:s:468:SER:HB3	1:s:474:LEU:HD11	1.71	0.70
1:t:109:TRP:CZ3	1:t:485:LYS:CB	2.73	0.70
1:w:332:GLY:HA2	1:w:353:GLN:HE22	1.56	0.70
1:y:565:ASN:OD1	1:y:566:TYR:N	2.24	0.70
1:z:244:PHE:O	1:z:246:PRO:HD3	1.90	0.70
1:A:36:HIS:CE1	1:E:34:VAL:CA	2.74	0.70
1:B:332:GLY:HA2	1:B:353:GLN:HE22	1.56	0.70
1:D:308:ILE:HG23	1:D:309:ASN:HB3	1.73	0.70
1:E:108:PRO:O	1:E:485:LYS:HD3	1.90	0.70
1:G:165:GLN:HE21	1:W:156:THR:HG21	1.56	0.70
1:H:108:PRO:O	1:H:485:LYS:HD3	1.91	0.70
1:H:156:THR:HG21	1:Z:165:GLN:HE21	1.55	0.70
1:H:379:TYR:HD2	1:H:392:GLU:HG3	1.56	0.70
1:L:108:PRO:O	1:L:485:LYS:HD3	1.90	0.70
1:M:34:VAL:CG2	1:2:36:HIS:CE1	2.73	0.70
1:O:468:SER:HB3	1:O:474:LEU:HD11	1.71	0.70
1:P:37:SER:HG	1:Q:257:ARG:CG	1.91	0.70
1:Q:108:PRO:O	1:Q:485:LYS:HD3	1.90	0.70
1:R:332:GLY:HA2	1:R:353:GLN:HE22	1.56	0.70
1:T:565:ASN:OD1	1:T:566:TYR:N	2.24	0.70
1:X:70:ASP:O	1:X:503:ARG:NH2	2.20	0.70
1:Z:424:ALA:HA	1:x:94:ARG:HH11	1.55	0.70
1:3:379:TYR:HD2	1:3:392:GLU:HG3	1.56	0.70
1:5:109:TRP:CZ3	1:5:485:LYS:CB	2.73	0.70
1:a:33:GLY:C	1:e:36:HIS:CE1	2.43	0.70
1:e:332:GLY:HA2	1:e:353:GLN:HE22	1.56	0.70
1:f:34:VAL:CG2	1:h:36:HIS:CE1	2.73	0.70
1:i:565:ASN:OD1	1:i:566:TYR:N	2.24	0.70
1:k:468:SER:HB3	1:k:474:LEU:HD11	1.71	0.70
1:o:308:ILE:HG23	1:o:309:ASN:HB3	1.73	0.70
1:o:498:GLY:O	1:o:502:SER:HB2	1.90	0.70
1:v:498:GLY:O	1:v:502:SER:HB2	1.90	0.70
1:v:565:ASN:OD1	1:v:566:TYR:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:565:ASN:OD1	1:x:566:TYR:N	2.24	0.70
1:y:94:ARG:HH11	1:6:424:ALA:HA	1.55	0.70
1:B:379:TYR:HD2	1:B:392:GLU:HG3	1.56	0.70
1:E:316:ARG:HH22	1:Q:98:ASN:CB	1.92	0.70
1:F:94:ARG:HH11	1:Q:424:ALA:HA	1.55	0.70
1:F:308:ILE:HG23	1:F:309:ASN:HB3	1.73	0.70
1:F:498:GLY:O	1:F:502:SER:HB2	1.90	0.70
1:N:108:PRO:O	1:N:485:LYS:HD3	1.90	0.70
1:O:108:PRO:O	1:O:485:LYS:HD3	1.90	0.70
1:R:94:ARG:HH11	1:U:424:ALA:HA	1.55	0.70
1:S:332:GLY:HA2	1:S:353:GLN:HE22	1.56	0.70
1:T:332:GLY:HA2	1:T:353:GLN:HE22	1.56	0.70
1:Y:498:GLY:O	1:Y:502:SER:HB2	1.90	0.70
1:1:565:ASN:OD1	1:1:566:TYR:N	2.24	0.70
1:g:109:TRP:CZ3	1:g:485:LYS:CB	2.73	0.70
1:g:165:GLN:HE21	1:m:156:THR:HG21	1.56	0.70
1:i:332:GLY:HA2	1:i:353:GLN:HE22	1.56	0.70
1:k:165:GLN:HE21	1:s:156:THR:HG21	1.56	0.70
1:l:109:TRP:CZ3	1:l:485:LYS:CB	2.73	0.70
1:n:379:TYR:HD2	1:n:392:GLU:HG3	1.56	0.70
1:o:565:ASN:OD1	1:o:566:TYR:N	2.24	0.70
1:p:108:PRO:O	1:p:485:LYS:HD3	1.90	0.70
1:t:108:PRO:O	1:t:485:LYS:HD3	1.91	0.70
1:u:70:ASP:O	1:u:503:ARG:NH2	2.20	0.70
1:v:109:TRP:CZ3	1:v:485:LYS:CB	2.73	0.70
1:y:156:THR:HG21	1:7:165:GLN:HE21	1.56	0.70
1:z:332:GLY:HA2	1:z:353:GLN:HE22	1.56	0.70
1:B:565:ASN:OD1	1:B:566:TYR:N	2.24	0.70
1:E:332:GLY:HA2	1:E:353:GLN:HE22	1.56	0.70
1:G:109:TRP:CZ3	1:G:485:LYS:CB	2.73	0.70
1:G:498:GLY:O	1:G:502:SER:HB2	1.90	0.70
1:K:165:GLN:HE21	1:L:156:THR:HG21	1.56	0.70
1:K:565:ASN:OD1	1:K:566:TYR:N	2.24	0.70
1:O:565:ASN:OD1	1:O:566:TYR:N	2.24	0.70
1:S:498:GLY:O	1:S:502:SER:HB2	1.90	0.70
1:X:89:GLN:HE21	1:X:229:GLN:HB2	1.57	0.70
1:X:565:ASN:OD1	1:X:566:TYR:N	2.24	0.70
1:0:109:TRP:CZ3	1:0:485:LYS:CB	2.73	0.70
1:4:379:TYR:HD2	1:4:392:GLU:HG3	1.56	0.70
1:a:565:ASN:OD1	1:a:566:TYR:N	2.24	0.70
1:c:565:ASN:OD1	1:c:566:TYR:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:36:HIS:CE1	1:k:34:VAL:CG2	2.73	0.70
1:j:109:TRP:CZ3	1:j:485:LYS:CB	2.73	0.70
1:k:108:PRO:O	1:k:485:LYS:HD3	1.90	0.70
1:k:565:ASN:OD1	1:k:566:TYR:N	2.24	0.70
1:l:108:PRO:O	1:l:485:LYS:HD3	1.90	0.70
1:n:108:PRO:O	1:n:485:LYS:HD3	1.90	0.70
1:q:308:ILE:HG23	1:q:309:ASN:HB3	1.73	0.70
1:s:498:GLY:O	1:s:502:SER:HB2	1.90	0.70
1:v:379:TYR:HD2	1:v:392:GLU:HG3	1.56	0.70
1:z:498:GLY:O	1:z:502:SER:HB2	1.90	0.70
1:6:70:ASP:O	1:6:503:ARG:NH2	2.20	0.70
1:A:70:ASP:O	1:A:503:ARG:NH2	2.20	0.70
1:D:89:GLN:HE21	1:D:229:GLN:HB2	1.57	0.70
1:F:565:ASN:OD1	1:F:566:TYR:N	2.24	0.70
1:G:379:TYR:HD2	1:G:392:GLU:HG3	1.56	0.70
1:I:108:PRO:O	1:I:485:LYS:HD3	1.91	0.70
1:K:256:LEU:HD11	1:K:262:TRP:HB2	1.74	0.70
1:M:379:TYR:HD2	1:M:392:GLU:HG3	1.56	0.70
1:O:165:GLN:HE21	1:P:156:THR:HG21	1.56	0.70
1:P:89:GLN:HE21	1:P:229:GLN:HB2	1.57	0.70
1:Q:165:GLN:HE21	1:S:156:THR:HG21	1.56	0.70
1:Q:379:TYR:HD2	1:Q:392:GLU:HG3	1.56	0.70
1:R:156:THR:HG21	1:V:165:GLN:HE21	1.56	0.70
1:V:94:ARG:HH11	1:X:424:ALA:HA	1.55	0.70
1:X:33:GLY:C	1:5:36:HIS:CE1	2.43	0.70
1:Y:36:HIS:CE1	1:x:34:VAL:CG2	2.73	0.70
1:Z:156:THR:HG21	1:0:165:GLN:HE21	1.56	0.70
1:Z:498:GLY:O	1:Z:502:SER:HB2	1.90	0.70
1:0:89:GLN:HE21	1:0:229:GLN:HB2	1.57	0.70
1:0:424:ALA:HA	1:7:94:ARG:HH11	1.55	0.70
1:2:89:GLN:HE21	1:2:229:GLN:HB2	1.57	0.70
1:3:109:TRP:CZ3	1:3:485:LYS:CB	2.73	0.70
1:3:565:ASN:OD1	1:3:566:TYR:N	2.24	0.70
1:4:256:LEU:HD11	1:4:262:TRP:HB2	1.74	0.70
1:4:565:ASN:OD1	1:4:566:TYR:N	2.24	0.70
1:b:36:HIS:CE1	1:c:34:VAL:HG23	2.26	0.70
1:c:108:PRO:O	1:c:485:LYS:HD3	1.90	0.70
1:d:379:TYR:HD2	1:d:392:GLU:HG3	1.56	0.70
1:d:424:ALA:HA	1:e:94:ARG:HH11	1.56	0.70
1:g:108:PRO:O	1:g:485:LYS:HD3	1.90	0.70
1:h:108:PRO:O	1:h:485:LYS:HD3	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:108:PRO:O	1:m:485:LYS:HD3	1.91	0.70
1:n:156:THR:HG21	1:s:165:GLN:HE21	1.56	0.70
1:s:89:GLN:HE21	1:s:229:GLN:HB2	1.57	0.70
1:E:379:TYR:HD2	1:E:392:GLU:HG3	1.56	0.70
1:F:89:GLN:HE21	1:F:229:GLN:HB2	1.57	0.70
1:H:165:GLN:HE21	1:I:156:THR:HG21	1.56	0.70
1:K:379:TYR:HD2	1:K:392:GLU:HG3	1.56	0.70
1:N:308:ILE:HG23	1:N:309:ASN:HB3	1.73	0.70
1:S:108:PRO:O	1:S:485:LYS:HD3	1.91	0.70
1:T:511:TRP:HE1	1:U:173:LEU:HD13	1.53	0.70
1:V:33:GLY:C	1:W:36:HIS:CE1	2.45	0.70
1:W:109:TRP:CZ3	1:W:485:LYS:CB	2.73	0.70
1:X:109:TRP:CZ3	1:X:485:LYS:CB	2.73	0.70
1:Z:256:LEU:HD11	1:Z:262:TRP:HB2	1.74	0.70
1:Z:565:ASN:OD1	1:Z:566:TYR:N	2.24	0.70
1:1:498:GLY:O	1:1:502:SER:HB2	1.90	0.70
1:2:565:ASN:OD1	1:2:566:TYR:N	2.24	0.70
1:3:424:ALA:HA	1:f:94:ARG:HH11	1.55	0.70
1:5:108:PRO:O	1:5:485:LYS:HD3	1.90	0.70
1:b:379:TYR:HD2	1:b:392:GLU:HG3	1.56	0.70
1:c:379:TYR:HD2	1:c:392:GLU:HG3	1.56	0.70
1:f:89:GLN:HE21	1:f:229:GLN:HB2	1.57	0.70
1:i:511:TRP:HE1	1:6:173:LEU:HD13	1.53	0.70
1:j:565:ASN:OD1	1:j:566:TYR:N	2.24	0.70
1:o:108:PRO:O	1:o:485:LYS:HD3	1.91	0.70
1:p:332:GLY:HA2	1:p:353:GLN:HE22	1.56	0.70
1:p:379:TYR:HD2	1:p:392:GLU:HG3	1.56	0.70
1:q:379:TYR:HD2	1:q:392:GLU:HG3	1.56	0.70
1:r:256:LEU:HD11	1:r:262:TRP:HB2	1.74	0.70
1:s:62:ARG:NH1	1:s:197:GLY:O	2.25	0.70
1:w:165:GLN:HE21	1:7:156:THR:HG21	1.56	0.70
1:x:109:TRP:CZ3	1:x:485:LYS:CB	2.73	0.70
1:x:498:GLY:O	1:x:502:SER:HB2	1.90	0.70
1:6:256:LEU:HD11	1:6:262:TRP:HB2	1.74	0.70
1:C:498:GLY:O	1:C:502:SER:HB2	1.90	0.70
1:D:62:ARG:NH1	1:D:197:GLY:O	2.25	0.70
1:D:379:TYR:HD2	1:D:392:GLU:HG3	1.56	0.70
1:F:108:PRO:O	1:F:485:LYS:HD3	1.91	0.70
1:H:34:VAL:CG2	1:Z:36:HIS:CE1	2.73	0.70
1:H:109:TRP:CZ3	1:H:485:LYS:CB	2.73	0.70
1:H:498:GLY:O	1:H:502:SER:HB2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:89:GLN:HE21	1:L:229:GLN:HB2	1.57	0.70
1:L:379:TYR:HD2	1:L:392:GLU:HG3	1.56	0.70
1:L:565:ASN:OD1	1:L:566:TYR:N	2.24	0.70
1:N:109:TRP:CZ3	1:N:485:LYS:CB	2.73	0.70
1:N:256:LEU:HD11	1:N:262:TRP:HB2	1.74	0.70
1:O:62:ARG:NH1	1:O:197:GLY:O	2.25	0.70
1:O:379:TYR:HD2	1:O:392:GLU:HG3	1.56	0.70
1:P:62:ARG:NH1	1:P:197:GLY:O	2.25	0.70
1:P:165:GLN:HE21	1:Q:156:THR:HG21	1.56	0.70
1:P:498:GLY:O	1:P:502:SER:HB2	1.90	0.70
1:U:70:ASP:O	1:U:503:ARG:NH2	2.20	0.70
1:V:156:THR:HG21	1:W:165:GLN:HE21	1.56	0.70
1:Y:565:ASN:OD1	1:Y:566:TYR:N	2.24	0.70
1:Z:34:VAL:CG2	1:0:36:HIS:CE1	2.73	0.70
1:1:108:PRO:O	1:1:485:LYS:HD3	1.90	0.70
1:1:379:TYR:HD2	1:1:392:GLU:HG3	1.56	0.70
1:2:94:ARG:HH11	1:j:424:ALA:HA	1.55	0.70
1:2:283:GLN:HA	1:2:283:GLN:OE1	1.92	0.70
1:2:498:GLY:O	1:2:502:SER:HB2	1.90	0.70
1:e:256:LEU:HD11	1:e:262:TRP:HB2	1.74	0.70
1:f:156:THR:HG21	1:h:165:GLN:HE21	1.56	0.70
1:f:498:GLY:O	1:f:502:SER:HB2	1.90	0.70
1:h:283:GLN:HA	1:h:283:GLN:OE1	1.92	0.70
1:h:565:ASN:OD1	1:h:566:TYR:N	2.24	0.70
1:m:283:GLN:HA	1:m:283:GLN:OE1	1.92	0.70
1:n:34:VAL:CG2	1:s:36:HIS:CE1	2.73	0.70
1:n:165:GLN:HE21	1:z:156:THR:HG21	1.56	0.70
1:p:156:THR:HG21	1:u:165:GLN:HE21	1.56	0.70
1:q:89:GLN:HE21	1:q:229:GLN:HB2	1.57	0.70
1:r:109:TRP:CZ3	1:r:485:LYS:CB	2.73	0.70
1:r:308:ILE:HG23	1:r:309:ASN:HB3	1.73	0.70
1:t:256:LEU:HD11	1:t:262:TRP:HB2	1.74	0.70
1:u:379:TYR:HD2	1:u:392:GLU:HG3	1.56	0.70
1:y:89:GLN:HE21	1:y:229:GLN:HB2	1.57	0.70
1:z:256:LEU:HD11	1:z:262:TRP:HB2	1.74	0.70
1:A:89:GLN:HE21	1:A:229:GLN:HB2	1.57	0.70
1:A:379:TYR:HD2	1:A:392:GLU:HG3	1.56	0.70
1:B:62:ARG:NH1	1:B:197:GLY:O	2.25	0.70
1:C:256:LEU:HD11	1:C:262:TRP:HB2	1.74	0.70
1:G:283:GLN:OE1	1:G:283:GLN:HA	1.92	0.70
1:I:256:LEU:HD11	1:I:262:TRP:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:108:PRO:O	1:J:485:LYS:HD3	1.90	0.70
1:M:94:ARG:HH11	1:1:424:ALA:HA	1.55	0.70
1:P:36:HIS:CE1	1:Q:34:VAL:CG2	2.73	0.70
1:R:89:GLN:HE21	1:R:229:GLN:HB2	1.57	0.70
1:R:308:ILE:HG23	1:R:309:ASN:HB3	1.73	0.70
1:S:379:TYR:HD2	1:S:392:GLU:HG3	1.56	0.70
1:U:165:GLN:HE21	1:4:156:THR:HG21	1.56	0.70
1:U:256:LEU:HD11	1:U:262:TRP:HB2	1.74	0.70
1:Y:256:LEU:HD11	1:Y:262:TRP:HB2	1.74	0.70
1:2:424:ALA:HA	1:i:94:ARG:HH11	1.56	0.70
1:5:316:ARG:HH22	1:b:98:ASN:CB	1.94	0.70
1:a:62:ARG:NH1	1:a:197:GLY:O	2.25	0.70
1:b:565:ASN:OD1	1:b:566:TYR:N	2.24	0.70
1:d:62:ARG:NH1	1:d:197:GLY:O	2.25	0.70
1:e:498:GLY:O	1:e:502:SER:HB2	1.90	0.70
1:f:283:GLN:OE1	1:f:283:GLN:HA	1.92	0.70
1:f:565:ASN:OD1	1:f:566:TYR:N	2.24	0.70
1:h:156:THR:HG21	1:l:165:GLN:HE21	1.56	0.70
1:h:256:LEU:HD11	1:h:262:TRP:HB2	1.74	0.70
1:i:283:GLN:HA	1:i:283:GLN:OE1	1.92	0.70
1:m:565:ASN:OD1	1:m:566:TYR:N	2.24	0.70
1:o:165:GLN:HE21	1:v:156:THR:HG21	1.56	0.70
1:q:62:ARG:NH1	1:q:197:GLY:O	2.25	0.70
1:w:109:TRP:CZ3	1:w:485:LYS:CB	2.73	0.70
1:y:256:LEU:HD11	1:y:262:TRP:HB2	1.74	0.70
1:z:379:TYR:HD2	1:z:392:GLU:HG3	1.56	0.70
1:A:565:ASN:OD1	1:A:566:TYR:N	2.24	0.70
1:H:89:GLN:HE21	1:H:229:GLN:HB2	1.57	0.70
1:M:62:ARG:NH1	1:M:197:GLY:O	2.25	0.70
1:N:62:ARG:NH1	1:N:197:GLY:O	2.25	0.70
1:O:34:VAL:CG2	1:3:36:HIS:CE1	2.74	0.70
1:R:62:ARG:NH1	1:R:197:GLY:O	2.25	0.70
1:S:256:LEU:HD11	1:S:262:TRP:HB2	1.74	0.70
1:S:565:ASN:OD1	1:S:566:TYR:N	2.24	0.70
1:T:283:GLN:HA	1:T:283:GLN:OE1	1.92	0.70
1:U:89:GLN:HE21	1:U:229:GLN:HB2	1.57	0.70
1:U:379:TYR:HD2	1:U:392:GLU:HG3	1.56	0.70
1:V:256:LEU:HD11	1:V:262:TRP:HB2	1.74	0.70
1:W:498:GLY:O	1:W:502:SER:HB2	1.90	0.70
1:X:36:HIS:CE1	1:Y:34:VAL:CG2	2.74	0.70
1:Y:62:ARG:NH1	1:Y:197:GLY:O	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:89:GLN:HE21	1:b:229:GLN:HB2	1.57	0.70
1:c:498:GLY:O	1:c:502:SER:HB2	1.90	0.70
1:g:424:ALA:HA	1:h:94:ARG:HH11	1.55	0.70
1:k:62:ARG:NH1	1:k:197:GLY:O	2.25	0.70
1:k:379:TYR:HD2	1:k:392:GLU:HG3	1.56	0.70
1:l:424:ALA:HA	1:m:94:ARG:HH11	1.55	0.70
1:o:89:GLN:HE21	1:o:229:GLN:HB2	1.57	0.70
1:q:109:TRP:CZ3	1:q:485:LYS:CB	2.73	0.70
1:t:156:THR:HG21	1:x:165:GLN:HE21	1.56	0.70
1:u:89:GLN:HE21	1:u:229:GLN:HB2	1.57	0.70
1:u:565:ASN:OD1	1:u:566:TYR:N	2.24	0.70
1:v:283:GLN:OE1	1:v:283:GLN:HA	1.92	0.70
1:x:89:GLN:HE21	1:x:229:GLN:HB2	1.57	0.70
1:y:62:ARG:NH1	1:y:197:GLY:O	2.25	0.70
1:z:108:PRO:O	1:z:485:LYS:HD3	1.91	0.70
1:7:256:LEU:HD11	1:7:262:TRP:HB2	1.74	0.70
1:D:183:LEU:O	1:P:526:ARG:NH1	2.25	0.70
1:F:165:GLN:HE21	1:G:156:THR:HG21	1.56	0.70
1:K:156:THR:HG21	1:6:165:GLN:HE21	1.56	0.70
1:R:256:LEU:HD11	1:R:262:TRP:HB2	1.74	0.70
1:T:94:ARG:HH11	1:f:424:ALA:HA	1.56	0.70
1:T:308:ILE:HG23	1:T:309:ASN:HB3	1.73	0.70
1:V:565:ASN:OD1	1:V:566:TYR:N	2.24	0.70
1:X:498:GLY:O	1:X:502:SER:HB2	1.90	0.70
1:Z:62:ARG:NH1	1:Z:197:GLY:O	2.25	0.70
1:Z:283:GLN:HA	1:Z:283:GLN:OE1	1.92	0.70
1:1:165:GLN:HE21	1:i:156:THR:HG21	1.56	0.70
1:a:34:VAL:CG2	1:e:36:HIS:CE1	2.73	0.70
1:a:89:GLN:HE21	1:a:229:GLN:HB2	1.57	0.70
1:c:424:ALA:HA	1:d:94:ARG:HH11	1.55	0.70
1:i:256:LEU:HD11	1:i:262:TRP:HB2	1.74	0.70
1:i:379:TYR:HD2	1:i:392:GLU:HG3	1.56	0.70
1:m:256:LEU:HD11	1:m:262:TRP:HB2	1.74	0.70
1:o:379:TYR:HD2	1:o:392:GLU:HG3	1.56	0.70
1:r:62:ARG:NH1	1:r:197:GLY:O	2.25	0.70
1:s:565:ASN:OD1	1:s:566:TYR:N	2.24	0.70
1:t:565:ASN:OD1	1:t:566:TYR:N	2.24	0.70
1:w:498:GLY:O	1:w:502:SER:HB2	1.90	0.70
1:y:308:ILE:HG23	1:y:309:ASN:HB3	1.73	0.70
1:z:565:ASN:OD1	1:z:566:TYR:N	2.24	0.70
1:6:308:ILE:HG23	1:6:309:ASN:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:VAL:CG2	1:C:36:HIS:CE1	2.73	0.69
1:B:89:GLN:HE21	1:B:229:GLN:HB2	1.57	0.69
1:D:109:TRP:CZ3	1:D:485:LYS:CB	2.73	0.69
1:D:565:ASN:OD1	1:D:566:TYR:N	2.24	0.69
1:I:565:ASN:OD1	1:I:566:TYR:N	2.24	0.69
1:L:37:SER:HG	1:1:257:ARG:CG	1.91	0.69
1:P:565:ASN:OD1	1:P:566:TYR:N	2.24	0.69
1:Q:89:GLN:HE21	1:Q:229:GLN:HB2	1.57	0.69
1:T:256:LEU:HD11	1:T:262:TRP:HB2	1.74	0.69
1:T:379:TYR:HD2	1:T:392:GLU:HG3	1.56	0.69
1:U:308:ILE:HG23	1:U:309:ASN:HB3	1.73	0.69
1:W:89:GLN:HE21	1:W:229:GLN:HB2	1.57	0.69
1:Y:89:GLN:HE21	1:Y:229:GLN:HB2	1.57	0.69
1:Y:283:GLN:HA	1:Y:283:GLN:OE1	1.92	0.69
1:Z:89:GLN:HE21	1:Z:229:GLN:HB2	1.57	0.69
1:0:498:GLY:O	1:0:502:SER:HB2	1.90	0.69
1:h:89:GLN:HE21	1:h:229:GLN:HB2	1.57	0.69
1:n:98:ASN:CB	1:p:316:ARG:HH22	1.92	0.69
1:q:183:LEU:O	1:s:526:ARG:NH1	2.25	0.69
1:z:89:GLN:HE21	1:z:229:GLN:HB2	1.57	0.69
1:6:89:GLN:HE21	1:6:229:GLN:HB2	1.57	0.69
1:7:565:ASN:OD1	1:7:566:TYR:N	2.24	0.69
1:A:62:ARG:NH1	1:A:197:GLY:O	2.25	0.69
1:C:565:ASN:OD1	1:C:566:TYR:N	2.24	0.69
1:F:379:TYR:HD2	1:F:392:GLU:HG3	1.56	0.69
1:G:308:ILE:HG23	1:G:309:ASN:HB3	1.73	0.69
1:H:70:ASP:O	1:H:503:ARG:NH2	2.20	0.69
1:L:308:ILE:HG23	1:L:309:ASN:HB3	1.73	0.69
1:N:565:ASN:OD1	1:N:566:TYR:N	2.24	0.69
1:R:424:ALA:HA	1:S:94:ARG:HH11	1.55	0.69
1:S:89:GLN:HE21	1:S:229:GLN:HB2	1.57	0.69
1:W:283:GLN:OE1	1:W:283:GLN:HA	1.92	0.69
1:5:34:VAL:CG2	1:t:36:HIS:CE1	2.74	0.69
1:5:565:ASN:OD1	1:5:566:TYR:N	2.24	0.69
1:b:308:ILE:HG23	1:b:309:ASN:HB3	1.73	0.69
1:d:498:GLY:O	1:d:502:SER:HB2	1.90	0.69
1:e:62:ARG:NH1	1:e:197:GLY:O	2.25	0.69
1:g:89:GLN:HE21	1:g:229:GLN:HB2	1.57	0.69
1:i:308:ILE:HG23	1:i:309:ASN:HB3	1.73	0.69
1:i:498:GLY:O	1:i:502:SER:HB2	1.90	0.69
1:j:108:PRO:O	1:j:485:LYS:HD3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:332:GLY:HA2	1:l:353:GLN:HE22	1.56	0.69
1:m:89:GLN:HE21	1:m:229:GLN:HB2	1.57	0.69
1:q:565:ASN:OD1	1:q:566:TYR:N	2.24	0.69
1:v:308:ILE:HG23	1:v:309:ASN:HB3	1.73	0.69
1:w:89:GLN:HE21	1:w:229:GLN:HB2	1.57	0.69
1:w:283:GLN:HA	1:w:283:GLN:OE1	1.92	0.69
1:7:62:ARG:NH1	1:7:197:GLY:O	2.25	0.69
1:B:156:THR:HG21	1:C:165:GLN:HE21	1.56	0.69
1:B:308:ILE:HG23	1:B:309:ASN:HB3	1.73	0.69
1:C:62:ARG:NH1	1:C:197:GLY:O	2.25	0.69
1:D:498:GLY:O	1:D:502:SER:HB2	1.90	0.69
1:E:498:GLY:O	1:E:502:SER:HB2	1.90	0.69
1:F:36:HIS:CE1	1:G:33:GLY:C	2.45	0.69
1:J:165:GLN:HE21	1:0:156:THR:HG21	1.56	0.69
1:J:565:ASN:OD1	1:J:566:TYR:N	2.24	0.69
1:M:498:GLY:O	1:M:502:SER:HB2	1.90	0.69
1:O:89:GLN:HE21	1:O:229:GLN:HB2	1.57	0.69
1:Q:62:ARG:NH1	1:Q:197:GLY:O	2.25	0.69
1:T:498:GLY:O	1:T:502:SER:HB2	1.90	0.69
1:V:62:ARG:NH1	1:V:197:GLY:O	2.25	0.69
1:W:565:ASN:OD1	1:W:566:TYR:N	2.24	0.69
1:X:156:THR:HG21	1:5:165:GLN:HE21	1.56	0.69
1:0:565:ASN:OD1	1:0:566:TYR:N	2.24	0.69
1:3:62:ARG:NH1	1:3:197:GLY:O	2.25	0.69
1:3:108:PRO:O	1:3:485:LYS:HD3	1.91	0.69
1:4:308:ILE:HG23	1:4:309:ASN:HB3	1.73	0.69
1:b:37:SER:H	1:c:257:ARG:HG3	1.57	0.69
1:e:565:ASN:OD1	1:e:566:TYR:N	2.24	0.69
1:h:498:GLY:O	1:h:502:SER:HB2	1.90	0.69
1:j:62:ARG:NH1	1:j:197:GLY:O	2.25	0.69
1:j:89:GLN:HE21	1:j:229:GLN:HB2	1.57	0.69
1:k:89:GLN:HE21	1:k:229:GLN:HB2	1.57	0.69
1:n:89:GLN:HE21	1:n:229:GLN:HB2	1.57	0.69
1:u:62:ARG:NH1	1:u:197:GLY:O	2.25	0.69
1:u:316:ARG:HH22	1:v:98:ASN:CB	1.92	0.69
1:v:256:LEU:HD11	1:v:262:TRP:HB2	1.74	0.69
1:x:70:ASP:O	1:x:503:ARG:NH2	2.20	0.69
1:x:308:ILE:HG23	1:x:309:ASN:HB3	1.73	0.69
1:x:332:GLY:HA2	1:x:353:GLN:HE22	1.56	0.69
1:6:379:TYR:HD2	1:6:392:GLU:HG3	1.56	0.69
1:A:308:ILE:HG23	1:A:309:ASN:HB3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:256:LEU:HD11	1:G:262:TRP:HB2	1.74	0.69
1:H:62:ARG:NH1	1:H:197:GLY:O	2.25	0.69
1:H:424:ALA:HA	1:W:94:ARG:HH11	1.55	0.69
1:J:62:ARG:NH1	1:J:197:GLY:O	2.25	0.69
1:K:89:GLN:HE21	1:K:229:GLN:HB2	1.57	0.69
1:O:256:LEU:HD11	1:O:262:TRP:HB2	1.74	0.69
1:T:156:THR:HG21	1:c:165:GLN:HE21	1.56	0.69
1:U:283:GLN:HA	1:U:283:GLN:OE1	1.92	0.69
1:W:308:ILE:HG23	1:W:309:ASN:HB3	1.73	0.69
1:0:283:GLN:OE1	1:0:283:GLN:HA	1.92	0.69
1:0:332:GLY:HA2	1:0:353:GLN:HE22	1.56	0.69
1:2:379:TYR:HD2	1:2:392:GLU:HG3	1.56	0.69
1:4:36:HIS:CE1	1:b:34:VAL:CG2	2.75	0.69
1:4:89:GLN:HE21	1:4:229:GLN:HB2	1.57	0.69
1:a:308:ILE:HG23	1:a:309:ASN:HB3	1.73	0.69
1:c:332:GLY:HA2	1:c:353:GLN:HE22	1.56	0.69
1:g:62:ARG:NH1	1:g:197:GLY:O	2.25	0.69
1:l:62:ARG:NH1	1:l:197:GLY:O	2.25	0.69
1:l:89:GLN:HE21	1:l:229:GLN:HB2	1.57	0.69
1:n:565:ASN:OD1	1:n:566:TYR:N	2.24	0.69
1:o:332:GLY:HA2	1:o:353:GLN:HE22	1.56	0.69
1:r:565:ASN:OD1	1:r:566:TYR:N	2.24	0.69
1:w:94:ARG:HH11	1:x:424:ALA:HA	1.55	0.69
1:w:565:ASN:OD1	1:w:566:TYR:N	2.24	0.69
1:y:283:GLN:HA	1:y:283:GLN:OE1	1.92	0.69
1:y:424:ALA:HA	1:z:94:ARG:HH11	1.55	0.69
1:6:565:ASN:OD1	1:6:566:TYR:N	2.24	0.69
1:B:256:LEU:HD11	1:B:262:TRP:HB2	1.74	0.69
1:H:308:ILE:HG23	1:H:309:ASN:HB3	1.73	0.69
1:H:332:GLY:HA2	1:H:353:GLN:HE22	1.56	0.69
1:J:36:HIS:C	1:0:257:ARG:HD2	2.18	0.69
1:K:308:ILE:HG23	1:K:309:ASN:HB3	1.73	0.69
1:N:498:GLY:O	1:N:502:SER:HB2	1.90	0.69
1:R:283:GLN:HA	1:R:283:GLN:OE1	1.92	0.69
1:U:565:ASN:OD1	1:U:566:TYR:N	2.24	0.69
1:V:89:GLN:HE21	1:V:229:GLN:HB2	1.57	0.69
1:1:89:GLN:HE21	1:1:229:GLN:HB2	1.57	0.69
1:5:62:ARG:NH1	1:5:197:GLY:O	2.25	0.69
1:d:283:GLN:HA	1:d:283:GLN:OE1	1.92	0.69
1:f:379:TYR:HD2	1:f:392:GLU:HG3	1.56	0.69
1:i:165:GLN:HE21	1:6:156:THR:HG21	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:256:LEU:HD11	1:k:262:TRP:HB2	1.74	0.69
1:l:256:LEU:HD11	1:l:262:TRP:HB2	1.74	0.69
1:m:498:GLY:O	1:m:502:SER:HB2	1.90	0.69
1:n:62:ARG:NH1	1:n:197:GLY:O	2.25	0.69
1:p:33:GLY:C	1:u:36:HIS:CE1	2.44	0.69
1:p:498:GLY:O	1:p:502:SER:HB2	1.90	0.69
1:q:498:GLY:O	1:q:502:SER:HB2	1.90	0.69
1:v:332:GLY:HA2	1:v:353:GLN:HE22	1.56	0.69
1:w:308:ILE:HG23	1:w:309:ASN:HB3	1.73	0.69
1:6:283:GLN:HA	1:6:283:GLN:OE1	1.92	0.69
1:E:183:LEU:O	1:F:526:ARG:NH1	2.25	0.69
1:K:36:HIS:CE1	1:L:34:VAL:CG2	2.73	0.69
1:O:548:ASN:OD1	1:O:549:ALA:N	2.26	0.69
1:P:332:GLY:HA2	1:P:353:GLN:HE22	1.56	0.69
1:T:526:ARG:NH1	1:3:183:LEU:O	2.25	0.69
1:X:332:GLY:HA2	1:X:353:GLN:HE22	1.56	0.69
1:Y:308:ILE:HG23	1:Y:309:ASN:HB3	1.73	0.69
1:Z:308:ILE:HG23	1:Z:309:ASN:HB3	1.73	0.69
1:Z:332:GLY:HA2	1:Z:353:GLN:HE22	1.56	0.69
1:2:62:ARG:NH1	1:2:197:GLY:O	2.25	0.69
1:a:165:GLN:HE21	1:u:156:THR:HG21	1.56	0.69
1:b:283:GLN:HA	1:b:283:GLN:OE1	1.92	0.69
1:e:379:TYR:HD2	1:e:392:GLU:HG3	1.56	0.69
1:f:256:LEU:HD11	1:f:262:TRP:HB2	1.74	0.69
1:g:256:LEU:HD11	1:g:262:TRP:HB2	1.74	0.69
1:g:332:GLY:HA2	1:g:353:GLN:HE22	1.56	0.69
1:h:308:ILE:HG23	1:h:309:ASN:HB3	1.73	0.69
1:i:89:GLN:HE21	1:i:229:GLN:HB2	1.57	0.69
1:o:62:ARG:NH1	1:o:197:GLY:O	2.25	0.69
1:o:526:ARG:NH1	1:p:183:LEU:O	2.25	0.69
1:p:34:VAL:CG2	1:u:36:HIS:CE1	2.73	0.69
1:p:283:GLN:HA	1:p:283:GLN:OE1	1.92	0.69
1:r:498:GLY:O	1:r:502:SER:HB2	1.90	0.69
1:s:332:GLY:HA2	1:s:353:GLN:HE22	1.56	0.69
1:t:498:GLY:O	1:t:502:SER:HB2	1.90	0.69
1:u:308:ILE:HG23	1:u:309:ASN:HB3	1.73	0.69
1:w:548:ASN:OD1	1:w:549:ALA:N	2.26	0.69
1:x:62:ARG:NH1	1:x:197:GLY:O	2.25	0.69
1:7:89:GLN:HE21	1:7:229:GLN:HB2	1.57	0.69
1:F:62:ARG:NH1	1:F:197:GLY:O	2.25	0.69
1:F:256:LEU:HD11	1:F:262:TRP:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:332:GLY:HA2	1:F:353:GLN:HE22	1.56	0.69
1:G:332:GLY:HA2	1:G:353:GLN:HE22	1.56	0.69
1:I:498:GLY:O	1:I:502:SER:HB2	1.90	0.69
1:J:379:TYR:HD2	1:J:392:GLU:HG3	1.56	0.69
1:L:283:GLN:HA	1:L:283:GLN:OE1	1.92	0.69
1:L:548:ASN:OD1	1:L:549:ALA:N	2.26	0.69
1:M:256:LEU:HD11	1:M:262:TRP:HB2	1.74	0.69
1:N:283:GLN:HA	1:N:283:GLN:OE1	1.92	0.69
1:Q:565:ASN:OD1	1:Q:566:TYR:N	2.24	0.69
1:R:498:GLY:O	1:R:502:SER:HB2	1.90	0.69
1:S:62:ARG:NH1	1:S:197:GLY:O	2.25	0.69
1:T:89:GLN:HE21	1:T:229:GLN:HB2	1.57	0.69
1:T:165:GLN:HE21	1:U:156:THR:HG21	1.56	0.69
1:V:283:GLN:HA	1:V:283:GLN:OE1	1.92	0.69
1:V:379:TYR:HD2	1:V:392:GLU:HG3	1.56	0.69
1:W:548:ASN:OD1	1:W:549:ALA:N	2.26	0.69
1:X:283:GLN:HA	1:X:283:GLN:OE1	1.92	0.69
1:0:256:LEU:HD11	1:0:262:TRP:HB2	1.74	0.69
1:1:332:GLY:HA2	1:1:353:GLN:HE22	1.56	0.69
1:2:156:THR:HG21	1:m:165:GLN:HE21	1.56	0.69
1:2:256:LEU:HD11	1:2:262:TRP:HB2	1.74	0.69
1:3:89:GLN:HE21	1:3:229:GLN:HB2	1.57	0.69
1:4:283:GLN:OE1	1:4:283:GLN:HA	1.92	0.69
1:4:511:TRP:HE1	1:b:173:LEU:HD13	1.56	0.69
1:5:379:TYR:HD2	1:5:392:GLU:HG3	1.56	0.69
1:a:256:LEU:HD11	1:a:262:TRP:HB2	1.74	0.69
1:b:548:ASN:OD1	1:b:549:ALA:N	2.26	0.69
1:c:89:GLN:HE21	1:c:229:GLN:HB2	1.57	0.69
1:f:62:ARG:NH1	1:f:197:GLY:O	2.25	0.69
1:h:548:ASN:OD1	1:h:549:ALA:N	2.26	0.69
1:k:548:ASN:OD1	1:k:549:ALA:N	2.26	0.69
1:m:548:ASN:OD1	1:m:549:ALA:N	2.26	0.69
1:o:256:LEU:HD11	1:o:262:TRP:HB2	1.74	0.69
1:r:283:GLN:OE1	1:r:283:GLN:HA	1.92	0.69
1:s:283:GLN:HA	1:s:283:GLN:OE1	1.92	0.69
1:v:36:HIS:C	1:w:257:ARG:HD2	2.18	0.69
1:A:256:LEU:HD11	1:A:262:TRP:HB2	1.74	0.69
1:B:526:ARG:NH1	1:J:183:LEU:O	2.25	0.69
1:C:89:GLN:HE21	1:C:229:GLN:HB2	1.57	0.69
1:C:379:TYR:HD2	1:C:392:GLU:HG3	1.56	0.69
1:E:256:LEU:HD11	1:E:262:TRP:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:283:GLN:HA	1:E:283:GLN:OE1	1.92	0.69
1:G:36:HIS:C	1:W:257:ARG:HD2	2.18	0.69
1:I:62:ARG:NH1	1:I:197:GLY:O	2.25	0.69
1:J:36:HIS:CE1	1:0:33:GLY:C	2.45	0.69
1:K:283:GLN:OE1	1:K:283:GLN:HA	1.92	0.69
1:M:283:GLN:HA	1:M:283:GLN:OE1	1.92	0.69
1:P:283:GLN:HA	1:P:283:GLN:OE1	1.92	0.69
1:S:165:GLN:HE21	1:3:156:THR:HG21	1.56	0.69
1:U:62:ARG:NH1	1:U:197:GLY:O	2.25	0.69
1:U:548:ASN:OD1	1:U:549:ALA:N	2.26	0.69
1:V:107:THR:HG22	1:V:209:TYR:O	1.93	0.69
1:X:256:LEU:HD11	1:X:262:TRP:HB2	1.74	0.69
1:Y:332:GLY:HA2	1:Y:353:GLN:HE22	1.56	0.69
1:1:62:ARG:NH1	1:1:197:GLY:O	2.25	0.69
1:4:36:HIS:CE1	1:b:33:GLY:CA	2.74	0.69
1:5:89:GLN:HE21	1:5:229:GLN:HB2	1.57	0.69
1:a:156:THR:HG21	1:e:165:GLN:HE21	1.56	0.69
1:a:498:GLY:O	1:a:502:SER:HB2	1.90	0.69
1:c:62:ARG:NH1	1:c:197:GLY:O	2.25	0.69
1:d:36:HIS:C	1:r:257:ARG:HD2	2.18	0.69
1:d:256:LEU:HD11	1:d:262:TRP:HB2	1.74	0.69
1:e:89:GLN:HE21	1:e:229:GLN:HB2	1.57	0.69
1:f:257:ARG:HD2	1:h:36:HIS:C	2.18	0.69
1:i:526:ARG:NH1	1:j:183:LEU:O	2.25	0.69
1:l:107:THR:HG22	1:l:209:TYR:O	1.93	0.69
1:l:156:THR:HG21	1:r:165:GLN:HE21	1.56	0.69
1:l:283:GLN:HA	1:l:283:GLN:OE1	1.92	0.69
1:m:308:ILE:HG23	1:m:309:ASN:HB3	1.73	0.69
1:o:36:HIS:CE1	1:v:33:GLY:C	2.45	0.69
1:p:256:LEU:HD11	1:p:262:TRP:HB2	1.74	0.69
1:q:283:GLN:HA	1:q:283:GLN:OE1	1.92	0.69
1:t:62:ARG:NH1	1:t:197:GLY:O	2.25	0.69
1:u:256:LEU:HD11	1:u:262:TRP:HB2	1.74	0.69
1:v:62:ARG:NH1	1:v:197:GLY:O	2.25	0.69
1:y:498:GLY:O	1:y:502:SER:HB2	1.90	0.69
1:6:548:ASN:OD1	1:6:549:ALA:N	2.26	0.69
1:7:379:TYR:HD2	1:7:392:GLU:HG3	1.56	0.69
1:A:183:LEU:O	1:I:526:ARG:NH1	2.25	0.69
1:C:257:ARG:HD2	1:D:36:HIS:C	2.18	0.69
1:G:89:GLN:HE21	1:G:229:GLN:HB2	1.57	0.69
1:G:548:ASN:OD1	1:G:549:ALA:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:283:GLN:HA	1:J:283:GLN:OE1	1.92	0.69
1:K:36:HIS:C	1:L:257:ARG:HD2	2.18	0.69
1:L:62:ARG:NH1	1:L:197:GLY:O	2.25	0.69
1:M:36:HIS:C	1:N:257:ARG:HD2	2.18	0.69
1:N:89:GLN:HE21	1:N:229:GLN:HB2	1.57	0.69
1:N:165:GLN:HE21	1:g:156:THR:HG21	1.56	0.69
1:R:107:THR:HG22	1:R:209:TYR:O	1.93	0.69
1:U:107:THR:HG22	1:U:209:TYR:O	1.93	0.69
1:W:107:THR:HG22	1:W:209:TYR:O	1.93	0.69
1:0:62:ARG:NH1	1:0:197:GLY:O	2.25	0.69
1:5:183:LEU:O	1:a:526:ARG:NH1	2.26	0.69
1:b:62:ARG:NH1	1:b:197:GLY:O	2.25	0.69
1:e:257:ARG:HD2	1:q:36:HIS:C	2.18	0.69
1:g:107:THR:HG22	1:g:209:TYR:O	1.93	0.69
1:j:283:GLN:OE1	1:j:283:GLN:HA	1.92	0.69
1:n:526:ARG:NH1	1:o:183:LEU:O	2.26	0.69
1:v:89:GLN:HE21	1:v:229:GLN:HB2	1.57	0.69
1:w:107:THR:HG22	1:w:209:TYR:O	1.93	0.69
1:y:107:THR:HG22	1:y:209:TYR:O	1.93	0.69
1:z:62:ARG:NH1	1:z:197:GLY:O	2.25	0.69
1:6:62:ARG:NH1	1:6:197:GLY:O	2.25	0.69
1:7:107:THR:HG22	1:7:209:TYR:O	1.93	0.69
1:7:283:GLN:HA	1:7:283:GLN:OE1	1.92	0.69
1:A:332:GLY:HA2	1:A:353:GLN:HE22	1.56	0.69
1:B:498:GLY:O	1:B:502:SER:HB2	1.90	0.69
1:D:283:GLN:HA	1:D:283:GLN:OE1	1.92	0.69
1:E:62:ARG:NH1	1:E:197:GLY:O	2.25	0.69
1:F:183:LEU:O	1:Q:526:ARG:NH1	2.26	0.69
1:G:62:ARG:NH1	1:G:197:GLY:O	2.25	0.69
1:H:283:GLN:HA	1:H:283:GLN:OE1	1.92	0.69
1:J:548:ASN:OD1	1:J:549:ALA:N	2.26	0.69
1:O:36:HIS:CE1	1:P:33:GLY:C	2.44	0.69
1:Q:36:HIS:CE1	1:S:34:VAL:CG2	2.73	0.69
1:T:257:ARG:HD2	1:c:36:HIS:C	2.18	0.69
1:X:62:ARG:NH1	1:X:197:GLY:O	2.25	0.69
1:X:548:ASN:OD1	1:X:549:ALA:N	2.26	0.69
1:2:107:THR:HG22	1:2:209:TYR:O	1.93	0.69
1:d:107:THR:HG22	1:d:209:TYR:O	1.93	0.69
1:e:283:GLN:HA	1:e:283:GLN:OE1	1.92	0.69
1:f:107:THR:HG22	1:f:209:TYR:O	1.93	0.69
1:g:283:GLN:HA	1:g:283:GLN:OE1	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:526:ARG:NH1	1:h:183:LEU:O	2.25	0.69
1:h:62:ARG:NH1	1:h:197:GLY:O	2.25	0.69
1:j:156:THR:HG21	1:z:165:GLN:HE21	1.56	0.69
1:m:62:ARG:NH1	1:m:197:GLY:O	2.25	0.69
1:n:36:HIS:CE1	1:z:34:VAL:CG2	2.73	0.69
1:t:89:GLN:HE21	1:t:229:GLN:HB2	1.57	0.69
1:u:332:GLY:HA2	1:u:353:GLN:HE22	1.56	0.69
1:v:548:ASN:OD1	1:v:549:ALA:N	2.26	0.69
1:6:107:THR:HG22	1:6:209:TYR:O	1.93	0.69
1:C:283:GLN:HA	1:C:283:GLN:OE1	1.92	0.68
1:D:107:THR:HG22	1:D:209:TYR:O	1.93	0.68
1:E:526:ARG:NH1	1:Q:183:LEU:O	2.26	0.68
1:J:89:GLN:HE21	1:J:229:GLN:HB2	1.57	0.68
1:M:107:THR:HG22	1:M:209:TYR:O	1.93	0.68
1:M:548:ASN:OD1	1:M:549:ALA:N	2.26	0.68
1:T:62:ARG:NH1	1:T:197:GLY:O	2.25	0.68
1:W:256:LEU:HD11	1:W:262:TRP:HB2	1.74	0.68
1:X:36:HIS:CE1	1:Y:33:GLY:C	2.45	0.68
1:5:548:ASN:OD1	1:5:549:ALA:N	2.26	0.68
1:d:526:ARG:NH1	1:e:183:LEU:O	2.26	0.68
1:j:257:ARG:HD2	1:z:36:HIS:C	2.18	0.68
1:k:36:HIS:CE1	1:s:33:GLY:C	2.44	0.68
1:l:526:ARG:NH1	1:m:183:LEU:O	2.26	0.68
1:p:62:ARG:NH1	1:p:197:GLY:O	2.25	0.68
1:q:256:LEU:HD11	1:q:262:TRP:HB2	1.74	0.68
1:r:89:GLN:HE21	1:r:229:GLN:HB2	1.57	0.68
1:s:548:ASN:OD1	1:s:549:ALA:N	2.26	0.68
1:t:526:ARG:NH1	1:u:183:LEU:O	2.26	0.68
1:u:107:THR:HG22	1:u:209:TYR:O	1.93	0.68
1:x:283:GLN:HA	1:x:283:GLN:OE1	1.92	0.68
1:z:283:GLN:OE1	1:z:283:GLN:HA	1.92	0.68
1:C:183:LEU:O	1:M:526:ARG:NH1	2.26	0.68
1:L:107:THR:HG22	1:L:209:TYR:O	1.93	0.68
1:O:107:THR:HG22	1:O:209:TYR:O	1.93	0.68
1:P:548:ASN:OD1	1:P:549:ALA:N	2.26	0.68
1:V:548:ASN:OD1	1:V:549:ALA:N	2.26	0.68
1:0:548:ASN:OD1	1:0:549:ALA:N	2.26	0.68
1:1:36:HIS:C	1:i:257:ARG:HD2	2.18	0.68
1:1:283:GLN:HA	1:1:283:GLN:OE1	1.92	0.68
1:3:283:GLN:HA	1:3:283:GLN:OE1	1.92	0.68
1:5:283:GLN:HA	1:5:283:GLN:OE1	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:107:THR:HG22	1:b:209:TYR:O	1.93	0.68
1:c:256:LEU:HD11	1:c:262:TRP:HB2	1.74	0.68
1:c:283:GLN:HA	1:c:283:GLN:OE1	1.92	0.68
1:d:548:ASN:OD1	1:d:549:ALA:N	2.26	0.68
1:i:62:ARG:NH1	1:i:197:GLY:O	2.25	0.68
1:k:107:THR:HG22	1:k:209:TYR:O	1.93	0.68
1:w:36:HIS:CE1	1:7:33:GLY:C	2.44	0.68
1:w:256:LEU:HD11	1:w:262:TRP:HB2	1.74	0.68
1:A:526:ARG:NH1	1:G:183:LEU:O	2.25	0.68
1:D:256:LEU:HD11	1:D:262:TRP:HB2	1.74	0.68
1:I:36:HIS:C	1:J:257:ARG:HD2	2.18	0.68
1:J:332:GLY:HA2	1:J:353:GLN:HE22	1.56	0.68
1:S:36:HIS:C	1:3:257:ARG:HD2	2.18	0.68
1:S:283:GLN:OE1	1:S:283:GLN:HA	1.92	0.68
1:2:548:ASN:OD1	1:2:549:ALA:N	2.26	0.68
1:g:36:HIS:CE1	1:m:33:GLY:C	2.44	0.68
1:h:386:ASP:HB2	1:h:552:LYS:HE3	1.76	0.68
1:j:256:LEU:HD11	1:j:262:TRP:HB2	1.74	0.68
1:n:183:LEU:O	1:p:526:ARG:NH1	2.26	0.68
1:q:107:THR:HG22	1:q:209:TYR:O	1.93	0.68
1:y:257:ARG:HD2	1:7:36:HIS:C	2.18	0.68
1:7:548:ASN:OD1	1:7:549:ALA:N	2.26	0.68
1:A:107:THR:HG22	1:A:209:TYR:O	1.93	0.68
1:B:98:ASN:CB	1:L:316:ARG:HH22	1.92	0.68
1:E:107:THR:HG22	1:E:209:TYR:O	1.93	0.68
1:E:386:ASP:HB2	1:E:552:LYS:HE3	1.76	0.68
1:F:283:GLN:HA	1:F:283:GLN:OE1	1.92	0.68
1:H:256:LEU:HD11	1:H:262:TRP:HB2	1.74	0.68
1:I:89:GLN:HE21	1:I:229:GLN:HB2	1.57	0.68
1:R:257:ARG:HD2	1:V:36:HIS:C	2.18	0.68
1:U:36:HIS:C	1:4:257:ARG:HD2	2.18	0.68
1:X:386:ASP:HB2	1:X:552:LYS:HE3	1.76	0.68
1:3:256:LEU:HD11	1:3:262:TRP:HB2	1.74	0.68
1:5:256:LEU:HD11	1:5:262:TRP:HB2	1.74	0.68
1:5:257:ARG:HD2	1:t:36:HIS:C	2.18	0.68
1:b:386:ASP:HB2	1:b:552:LYS:HE3	1.76	0.68
1:f:548:ASN:OD1	1:f:549:ALA:N	2.26	0.68
1:h:107:THR:HG22	1:h:209:TYR:O	1.93	0.68
1:l:548:ASN:OD1	1:l:549:ALA:N	2.26	0.68
1:m:386:ASP:HB2	1:m:552:LYS:HE3	1.76	0.68
1:n:256:LEU:HD11	1:n:262:TRP:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:107:THR:HG22	1:p:209:TYR:O	1.93	0.68
1:p:386:ASP:HB2	1:p:552:LYS:HE3	1.76	0.68
1:D:548:ASN:OD1	1:D:549:ALA:N	2.26	0.68
1:K:257:ARG:HD2	1:6:36:HIS:C	2.18	0.68
1:L:256:LEU:HD11	1:L:262:TRP:HB2	1.74	0.68
1:L:386:ASP:HB2	1:L:552:LYS:HE3	1.76	0.68
1:O:283:GLN:OE1	1:O:283:GLN:HA	1.92	0.68
1:Q:256:LEU:HD11	1:Q:262:TRP:HB2	1.74	0.68
1:T:183:LEU:O	1:f:526:ARG:NH1	2.25	0.68
1:Y:548:ASN:OD1	1:Y:549:ALA:N	2.26	0.68
1:0:386:ASP:HB2	1:0:552:LYS:HE3	1.76	0.68
1:1:256:LEU:HD11	1:1:262:TRP:HB2	1.74	0.68
1:4:107:THR:HG22	1:4:209:TYR:O	1.93	0.68
1:b:256:LEU:HD11	1:b:262:TRP:HB2	1.74	0.68
1:d:89:GLN:HE21	1:d:229:GLN:HB2	1.57	0.68
1:f:386:ASP:HB2	1:f:552:LYS:HE3	1.76	0.68
1:g:548:ASN:OD1	1:g:549:ALA:N	2.26	0.68
1:k:316:ARG:HH22	1:l:98:ASN:CB	1.92	0.68
1:m:107:THR:HG22	1:m:209:TYR:O	1.93	0.68
1:o:283:GLN:HA	1:o:283:GLN:OE1	1.92	0.68
1:p:89:GLN:HE21	1:p:229:GLN:HB2	1.57	0.68
1:q:548:ASN:OD1	1:q:549:ALA:N	2.26	0.68
1:s:256:LEU:HD11	1:s:262:TRP:HB2	1.74	0.68
1:7:308:ILE:HG23	1:7:309:ASN:HB3	1.73	0.68
1:E:89:GLN:HE21	1:E:229:GLN:HB2	1.57	0.68
1:H:548:ASN:OD1	1:H:549:ALA:N	2.26	0.68
1:J:256:LEU:HD11	1:J:262:TRP:HB2	1.74	0.68
1:N:107:THR:HG22	1:N:209:TYR:O	1.93	0.68
1:N:526:ARG:NH1	1:P:183:LEU:O	2.25	0.68
1:P:107:THR:HG22	1:P:209:TYR:O	1.93	0.68
1:P:256:LEU:HD11	1:P:262:TRP:HB2	1.74	0.68
1:R:92:GLN:OE1	1:R:228:ASN:ND2	2.27	0.68
1:S:107:THR:HG22	1:S:209:TYR:O	1.93	0.68
1:V:308:ILE:HG23	1:V:309:ASN:HB3	1.73	0.68
1:W:92:GLN:OE1	1:W:228:ASN:ND2	2.27	0.68
1:X:92:GLN:OE1	1:X:228:ASN:ND2	2.27	0.68
1:X:107:THR:HG22	1:X:209:TYR:O	1.93	0.68
1:Z:548:ASN:OD1	1:Z:549:ALA:N	2.26	0.68
1:0:92:GLN:OE1	1:0:228:ASN:ND2	2.27	0.68
1:0:107:THR:HG22	1:0:209:TYR:O	1.93	0.68
1:2:386:ASP:HB2	1:2:552:LYS:HE3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:526:ARG:NH1	1:i:183:LEU:O	2.26	0.68
1:5:332:GLY:HA2	1:5:353:GLN:HE22	1.56	0.68
1:a:283:GLN:HA	1:a:283:GLN:OE1	1.92	0.68
1:a:386:ASP:HB2	1:a:552:LYS:HE3	1.76	0.68
1:o:37:SER:HG	1:v:257:ARG:HG2	0.87	0.68
1:p:257:ARG:HD2	1:u:36:HIS:C	2.18	0.68
1:r:107:THR:HG22	1:r:209:TYR:O	1.93	0.68
1:x:548:ASN:OD1	1:x:549:ALA:N	2.26	0.68
1:y:92:GLN:OE1	1:y:228:ASN:ND2	2.27	0.68
1:z:107:THR:HG22	1:z:209:TYR:O	1.93	0.68
1:A:316:ARG:HH22	1:G:98:ASN:CB	1.94	0.68
1:B:283:GLN:HA	1:B:283:GLN:OE1	1.92	0.68
1:B:386:ASP:HB2	1:B:552:LYS:HE3	1.76	0.68
1:F:33:GLY:C	1:R:36:HIS:CE1	2.44	0.68
1:K:107:THR:HG22	1:K:209:TYR:O	1.93	0.68
1:M:89:GLN:HE21	1:M:229:GLN:HB2	1.57	0.68
1:Q:283:GLN:HA	1:Q:283:GLN:OE1	1.92	0.68
1:S:36:HIS:CE1	1:3:33:GLY:C	2.45	0.68
1:W:62:ARG:NH1	1:W:197:GLY:O	2.25	0.68
1:4:62:ARG:NH1	1:4:197:GLY:O	2.25	0.68
1:h:33:GLY:C	1:l:36:HIS:CE1	2.45	0.68
1:k:283:GLN:HA	1:k:283:GLN:OE1	1.92	0.68
1:o:548:ASN:OD1	1:o:549:ALA:N	2.26	0.68
1:r:548:ASN:OD1	1:r:549:ALA:N	2.26	0.68
1:v:107:THR:HG22	1:v:209:TYR:O	1.93	0.68
1:w:92:GLN:OE1	1:w:228:ASN:ND2	2.27	0.68
1:x:256:LEU:HD11	1:x:262:TRP:HB2	1.74	0.68
1:6:92:GLN:OE1	1:6:228:ASN:ND2	2.27	0.68
1:A:257:ARG:HD2	1:B:36:HIS:C	2.16	0.68
1:F:548:ASN:OD1	1:F:549:ALA:N	2.26	0.68
1:I:548:ASN:OD1	1:I:549:ALA:N	2.26	0.68
1:J:526:ARG:NH1	1:L:183:LEU:O	2.26	0.68
1:N:548:ASN:OD1	1:N:549:ALA:N	2.26	0.68
1:Q:107:THR:HG22	1:Q:209:TYR:O	1.93	0.68
1:Q:548:ASN:OD1	1:Q:549:ALA:N	2.26	0.68
1:R:183:LEU:O	1:U:526:ARG:NH1	2.26	0.68
1:R:386:ASP:HB2	1:R:552:LYS:HE3	1.76	0.68
1:U:92:GLN:OE1	1:U:228:ASN:ND2	2.27	0.68
1:W:386:ASP:HB2	1:W:552:LYS:HE3	1.76	0.68
1:Z:33:GLY:C	1:0:36:HIS:CE1	2.45	0.68
1:1:548:ASN:OD1	1:1:549:ALA:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:247:LEU:O	1:2:248:GLU:CB	2.42	0.68
1:5:107:THR:HG22	1:5:209:TYR:O	1.93	0.68
1:c:98:ASN:CB	1:e:316:ARG:HH22	1.92	0.68
1:h:257:ARG:HD2	1:l:36:HIS:C	2.18	0.68
1:n:283:GLN:OE1	1:n:283:GLN:HA	1.92	0.68
1:s:107:THR:HG22	1:s:209:TYR:O	1.93	0.68
1:x:386:ASP:HB2	1:x:552:LYS:HE3	1.76	0.68
1:y:386:ASP:HB2	1:y:552:LYS:HE3	1.76	0.68
1:C:386:ASP:HB2	1:C:552:LYS:HE3	1.76	0.68
1:C:548:ASN:OD1	1:C:549:ALA:N	2.26	0.68
1:K:62:ARG:NH1	1:K:197:GLY:O	2.25	0.68
1:O:316:ARG:HH22	1:g:98:ASN:CB	1.92	0.68
1:T:386:ASP:HB2	1:T:552:LYS:HE3	1.76	0.68
1:X:257:ARG:HD2	1:5:36:HIS:C	2.19	0.68
1:e:548:ASN:OD1	1:e:549:ALA:N	2.26	0.68
1:f:247:LEU:O	1:f:248:GLU:CB	2.42	0.68
1:j:92:GLN:OE1	1:j:228:ASN:ND2	2.27	0.68
1:j:548:ASN:OD1	1:j:549:ALA:N	2.26	0.68
1:n:107:THR:HG22	1:n:209:TYR:O	1.93	0.68
1:r:526:ARG:NH1	1:s:183:LEU:O	2.25	0.68
1:t:548:ASN:OD1	1:t:549:ALA:N	2.26	0.68
1:w:62:ARG:NH1	1:w:197:GLY:O	2.25	0.68
1:A:548:ASN:OD1	1:A:549:ALA:N	2.26	0.68
1:G:107:THR:HG22	1:G:209:TYR:O	1.93	0.68
1:H:107:THR:HG22	1:H:209:TYR:O	1.93	0.68
1:H:386:ASP:HB2	1:H:552:LYS:HE3	1.76	0.68
1:Y:92:GLN:OE1	1:Y:228:ASN:ND2	2.27	0.68
1:2:336:PRO:HB3	1:2:432:TYR:O	1.94	0.68
1:3:92:GLN:OE1	1:3:228:ASN:ND2	2.27	0.68
1:3:548:ASN:OD1	1:3:549:ALA:N	2.26	0.68
1:a:107:THR:HG22	1:a:209:TYR:O	1.93	0.68
1:c:548:ASN:OD1	1:c:549:ALA:N	2.26	0.68
1:d:33:GLY:C	1:f:36:HIS:CE1	2.44	0.68
1:e:386:ASP:HB2	1:e:552:LYS:HE3	1.76	0.68
1:i:386:ASP:HB2	1:i:552:LYS:HE3	1.76	0.68
1:n:548:ASN:OD1	1:n:549:ALA:N	2.26	0.68
1:o:33:GLY:C	1:y:36:HIS:CE1	2.44	0.68
1:q:386:ASP:HB2	1:q:552:LYS:HE3	1.76	0.68
1:y:183:LEU:O	1:6:526:ARG:NH1	2.26	0.68
1:7:336:PRO:HB3	1:7:432:TYR:O	1.94	0.68
1:B:107:THR:HG22	1:B:209:TYR:O	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:92:GLN:OE1	1:C:228:ASN:ND2	2.27	0.67
1:D:386:ASP:HB2	1:D:552:LYS:HE3	1.76	0.67
1:F:107:THR:HG22	1:F:209:TYR:O	1.93	0.67
1:I:92:GLN:OE1	1:I:228:ASN:ND2	2.27	0.67
1:I:386:ASP:HB2	1:I:552:LYS:HE3	1.76	0.67
1:J:107:THR:HG22	1:J:209:TYR:O	1.93	0.67
1:P:54:VAL:HB	1:P:520:ALA:HB3	1.77	0.67
1:V:54:VAL:HB	1:V:520:ALA:HB3	1.77	0.67
1:W:336:PRO:HB3	1:W:432:TYR:O	1.95	0.67
1:Z:92:GLN:OE1	1:Z:228:ASN:ND2	2.27	0.67
1:3:107:THR:HG22	1:3:209:TYR:O	1.93	0.67
1:5:386:ASP:HB2	1:5:552:LYS:HE3	1.76	0.67
1:f:33:GLY:C	1:h:36:HIS:CE1	2.45	0.67
1:f:336:PRO:HB3	1:f:432:TYR:O	1.95	0.67
1:g:36:HIS:C	1:m:257:ARG:HD2	2.18	0.67
1:u:92:GLN:OE1	1:u:228:ASN:ND2	2.27	0.67
1:u:548:ASN:OD1	1:u:549:ALA:N	2.26	0.67
1:w:336:PRO:HB3	1:w:432:TYR:O	1.95	0.67
1:w:386:ASP:HB2	1:w:552:LYS:HE3	1.76	0.67
1:y:526:ARG:NH1	1:z:183:LEU:O	2.26	0.67
1:y:548:ASN:OD1	1:y:549:ALA:N	2.26	0.67
1:z:548:ASN:OD1	1:z:549:ALA:N	2.26	0.67
1:A:92:GLN:OE1	1:A:228:ASN:ND2	2.27	0.67
1:B:92:GLN:OE1	1:B:228:ASN:ND2	2.27	0.67
1:F:54:VAL:HB	1:F:520:ALA:HB3	1.77	0.67
1:K:548:ASN:OD1	1:K:549:ALA:N	2.26	0.67
1:R:526:ARG:NH1	1:S:183:LEU:O	2.26	0.67
1:R:548:ASN:OD1	1:R:549:ALA:N	2.26	0.67
1:S:336:PRO:HB3	1:S:432:TYR:O	1.95	0.67
1:S:548:ASN:OD1	1:S:549:ALA:N	2.26	0.67
1:V:98:ASN:CB	1:X:316:ARG:HH22	1.92	0.67
1:4:386:ASP:HB2	1:4:552:LYS:HE3	1.76	0.67
1:4:548:ASN:OD1	1:4:549:ALA:N	2.26	0.67
1:5:33:GLY:C	1:t:36:HIS:CE1	2.44	0.67
1:a:54:VAL:HB	1:a:520:ALA:HB3	1.77	0.67
1:a:92:GLN:OE1	1:a:228:ASN:ND2	2.27	0.67
1:e:92:GLN:OE1	1:e:228:ASN:ND2	2.27	0.67
1:i:92:GLN:OE1	1:i:228:ASN:ND2	2.27	0.67
1:o:54:VAL:HB	1:o:520:ALA:HB3	1.77	0.67
1:t:92:GLN:OE1	1:t:228:ASN:ND2	2.27	0.67
1:x:107:THR:HG22	1:x:209:TYR:O	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:54:VAL:HB	1:7:520:ALA:HB3	1.77	0.67
1:A:36:HIS:C	1:E:257:ARG:HD2	2.19	0.67
1:B:548:ASN:OD1	1:B:549:ALA:N	2.26	0.67
1:C:316:ARG:HH22	1:1:98:ASN:CB	1.92	0.67
1:E:336:PRO:HB3	1:E:432:TYR:O	1.95	0.67
1:G:336:PRO:HB3	1:G:432:TYR:O	1.95	0.67
1:H:316:ARG:HH22	1:W:98:ASN:CB	1.92	0.67
1:K:386:ASP:HB2	1:K:552:LYS:HE3	1.76	0.67
1:T:92:GLN:OE1	1:T:228:ASN:ND2	2.27	0.67
1:U:336:PRO:HB3	1:U:432:TYR:O	1.95	0.67
1:V:336:PRO:HB3	1:V:432:TYR:O	1.95	0.67
1:W:54:VAL:HB	1:W:520:ALA:HB3	1.77	0.67
1:W:97:ILE:HG21	1:W:340:ILE:HD12	1.77	0.67
1:W:526:ARG:NH1	1:Y:183:LEU:O	2.26	0.67
1:2:98:ASN:CB	1:j:316:ARG:HH22	1.92	0.67
1:e:107:THR:HG22	1:e:209:TYR:O	1.93	0.67
1:h:336:PRO:HB3	1:h:432:TYR:O	1.94	0.67
1:j:107:THR:HG22	1:j:209:TYR:O	1.93	0.67
1:m:336:PRO:HB3	1:m:432:TYR:O	1.94	0.67
1:o:107:THR:HG22	1:o:209:TYR:O	1.93	0.67
1:p:97:ILE:HG21	1:p:340:ILE:HD12	1.77	0.67
1:p:336:PRO:HB3	1:p:432:TYR:O	1.95	0.67
1:p:548:ASN:OD1	1:p:549:ALA:N	2.26	0.67
1:s:54:VAL:HB	1:s:520:ALA:HB3	1.77	0.67
1:v:336:PRO:HB3	1:v:432:TYR:O	1.95	0.67
1:z:336:PRO:HB3	1:z:432:TYR:O	1.95	0.67
1:B:54:VAL:HB	1:B:520:ALA:HB3	1.77	0.67
1:D:92:GLN:OE1	1:D:228:ASN:ND2	2.27	0.67
1:G:386:ASP:HB2	1:G:552:LYS:HE3	1.76	0.67
1:I:283:GLN:HA	1:I:283:GLN:OE1	1.92	0.67
1:J:386:ASP:HB2	1:J:552:LYS:HE3	1.76	0.67
1:K:36:HIS:CE1	1:L:33:GLY:C	2.45	0.67
1:L:247:LEU:O	1:L:248:GLU:CB	2.42	0.67
1:M:33:GLY:C	1:2:36:HIS:CE1	2.44	0.67
1:R:339:GLN:HE22	1:U:435:THR:HG21	1.60	0.67
1:Y:107:THR:HG22	1:Y:209:TYR:O	1.93	0.67
1:Z:183:LEU:O	1:w:526:ARG:NH1	2.26	0.67
1:4:92:GLN:OE1	1:4:228:ASN:ND2	2.27	0.67
1:a:336:PRO:HB3	1:a:432:TYR:O	1.95	0.67
1:a:548:ASN:OD1	1:a:549:ALA:N	2.26	0.67
1:b:247:LEU:O	1:b:248:GLU:CB	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:534:PRO:HG3	1:c:562:ALA:HB1	1.77	0.67
1:h:97:ILE:HG21	1:h:340:ILE:HD12	1.77	0.67
1:j:33:GLY:C	1:z:36:HIS:CE1	2.45	0.67
1:j:257:ARG:CG	1:z:37:SER:HG	1.87	0.67
1:l:97:ILE:HG21	1:l:340:ILE:HD12	1.77	0.67
1:m:97:ILE:HG21	1:m:340:ILE:HD12	1.77	0.67
1:q:92:GLN:OE1	1:q:228:ASN:ND2	2.27	0.67
1:t:386:ASP:HB2	1:t:552:LYS:HE3	1.76	0.67
1:u:526:ARG:NH1	1:v:183:LEU:O	2.25	0.67
1:v:54:VAL:HB	1:v:520:ALA:HB3	1.76	0.67
1:6:336:PRO:HB3	1:6:432:TYR:O	1.95	0.67
1:6:386:ASP:HB2	1:6:552:LYS:HE3	1.76	0.67
1:7:92:GLN:OE1	1:7:228:ASN:ND2	2.27	0.67
1:A:257:ARG:HD3	1:B:36:HIS:C	2.18	0.67
1:B:336:PRO:HB3	1:B:432:TYR:O	1.95	0.67
1:E:97:ILE:HG21	1:E:340:ILE:HD12	1.77	0.67
1:G:526:ARG:NH1	1:I:183:LEU:O	2.25	0.67
1:K:92:GLN:OE1	1:K:228:ASN:ND2	2.27	0.67
1:L:92:GLN:OE1	1:L:228:ASN:ND2	2.27	0.67
1:N:36:HIS:C	1:g:257:ARG:HD2	2.18	0.67
1:O:336:PRO:HB3	1:O:432:TYR:O	1.95	0.67
1:O:339:GLN:HE22	1:h:435:THR:HG21	1.60	0.67
1:P:92:GLN:OE1	1:P:228:ASN:ND2	2.27	0.67
1:Q:92:GLN:OE1	1:Q:228:ASN:ND2	2.27	0.67
1:R:97:ILE:HG21	1:R:340:ILE:HD12	1.77	0.67
1:S:386:ASP:HB2	1:S:552:LYS:HE3	1.76	0.67
1:U:386:ASP:HB2	1:U:552:LYS:HE3	1.76	0.67
1:V:92:GLN:OE1	1:V:228:ASN:ND2	2.27	0.67
1:Z:54:VAL:HB	1:Z:520:ALA:HB3	1.76	0.67
1:1:534:PRO:HG3	1:1:562:ALA:HB1	1.77	0.67
1:2:33:GLY:C	1:m:36:HIS:CE1	2.45	0.67
1:3:54:VAL:HB	1:3:520:ALA:HB3	1.77	0.67
1:3:96:THR:HG21	1:3:221:ILE:HG12	1.77	0.67
1:5:339:GLN:HE22	1:a:435:THR:HG21	1.60	0.67
1:c:336:PRO:HB3	1:c:432:TYR:O	1.95	0.67
1:d:534:PRO:HG3	1:d:562:ALA:HB1	1.77	0.67
1:g:97:ILE:HG21	1:g:340:ILE:HD12	1.77	0.67
1:h:96:THR:HG21	1:h:221:ILE:HG12	1.77	0.67
1:j:96:THR:HG21	1:j:221:ILE:HG12	1.77	0.67
1:k:336:PRO:HB3	1:k:432:TYR:O	1.95	0.67
1:l:336:PRO:HB3	1:l:432:TYR:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:339:GLN:HE22	1:p:435:THR:HG21	1.60	0.67
1:s:92:GLN:OE1	1:s:228:ASN:ND2	2.27	0.67
1:u:282:SER:HB3	1:u:403:GLY:HA2	1.77	0.67
1:u:283:GLN:HA	1:u:283:GLN:OE1	1.92	0.67
1:v:386:ASP:HB2	1:v:552:LYS:HE3	1.76	0.67
1:w:97:ILE:HG21	1:w:340:ILE:HD12	1.77	0.67
1:y:339:GLN:HE22	1:6:435:THR:HG21	1.60	0.67
1:z:386:ASP:HB2	1:z:552:LYS:HE3	1.76	0.67
1:A:283:GLN:HA	1:A:283:GLN:OE1	1.92	0.67
1:A:534:PRO:HG3	1:A:562:ALA:HB1	1.77	0.67
1:B:93:GLY:C	1:B:96:THR:HG23	2.20	0.67
1:C:96:THR:HG21	1:C:221:ILE:HG12	1.77	0.67
1:C:107:THR:HG22	1:C:209:TYR:O	1.93	0.67
1:C:435:THR:HG21	1:1:339:GLN:HE22	1.60	0.67
1:C:534:PRO:HG3	1:C:562:ALA:HB1	1.77	0.67
1:D:54:VAL:HB	1:D:520:ALA:HB3	1.77	0.67
1:E:339:GLN:HE22	1:F:435:THR:HG21	1.60	0.67
1:E:435:THR:HG21	1:Q:339:GLN:HE22	1.60	0.67
1:E:548:ASN:OD1	1:E:549:ALA:N	2.26	0.67
1:G:54:VAL:HB	1:G:520:ALA:HB3	1.77	0.67
1:H:435:THR:HG21	1:W:339:GLN:HE22	1.60	0.67
1:J:336:PRO:HB3	1:J:432:TYR:O	1.95	0.67
1:K:526:ARG:NH1	1:0:183:LEU:O	2.25	0.67
1:N:336:PRO:HB3	1:N:432:TYR:O	1.95	0.67
1:O:54:VAL:HB	1:O:520:ALA:HB3	1.77	0.67
1:P:36:HIS:CE1	1:Q:33:GLY:C	2.45	0.67
1:W:96:THR:HG21	1:W:221:ILE:HG12	1.77	0.67
1:Z:107:THR:HG22	1:Z:209:TYR:O	1.93	0.67
1:1:336:PRO:HB3	1:1:432:TYR:O	1.95	0.67
1:5:336:PRO:HB3	1:5:432:TYR:O	1.95	0.67
1:a:93:GLY:C	1:a:96:THR:HG23	2.20	0.67
1:b:92:GLN:OE1	1:b:228:ASN:ND2	2.27	0.67
1:d:54:VAL:HB	1:d:520:ALA:HB3	1.77	0.67
1:e:96:THR:HG21	1:e:221:ILE:HG12	1.77	0.67
1:e:336:PRO:HB3	1:e:432:TYR:O	1.95	0.67
1:i:107:THR:HG22	1:i:209:TYR:O	1.93	0.67
1:i:336:PRO:HB3	1:i:432:TYR:O	1.95	0.67
1:j:54:VAL:HB	1:j:520:ALA:HB3	1.77	0.67
1:l:435:THR:HG21	1:m:339:GLN:HE22	1.60	0.67
1:n:92:GLN:OE1	1:n:228:ASN:ND2	2.27	0.67
1:o:435:THR:HG21	1:p:339:GLN:HE22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:336:PRO:HB3	1:r:432:TYR:O	1.95	0.67
1:t:283:GLN:HA	1:t:283:GLN:OE1	1.92	0.67
1:u:534:PRO:HG3	1:u:562:ALA:HB1	1.77	0.67
1:w:54:VAL:HB	1:w:520:ALA:HB3	1.77	0.67
1:w:96:THR:HG21	1:w:221:ILE:HG12	1.77	0.67
1:w:339:GLN:HE22	1:x:435:THR:HG21	1.60	0.67
1:y:97:ILE:HG21	1:y:340:ILE:HD12	1.77	0.67
1:z:54:VAL:HB	1:z:520:ALA:HB3	1.77	0.67
1:A:282:SER:HB3	1:A:403:GLY:HA2	1.77	0.67
1:D:435:THR:HG21	1:N:339:GLN:HE22	1.60	0.67
1:F:37:SER:HG	1:G:257:ARG:HG2	0.86	0.67
1:F:96:THR:HG21	1:F:221:ILE:HG12	1.77	0.67
1:I:36:HIS:CE1	1:J:33:GLY:C	2.44	0.67
1:M:534:PRO:HG3	1:M:562:ALA:HB1	1.77	0.67
1:Q:36:HIS:C	1:S:257:ARG:HD3	2.20	0.67
1:Q:282:SER:HB3	1:Q:403:GLY:HA2	1.77	0.67
1:S:92:GLN:OE1	1:S:228:ASN:ND2	2.27	0.67
1:Z:534:PRO:HG3	1:Z:562:ALA:HB1	1.77	0.67
1:0:316:ARG:HH22	1:7:98:ASN:CB	1.92	0.67
1:3:97:ILE:HG21	1:3:340:ILE:HD12	1.77	0.67
1:3:316:ARG:HH22	1:f:98:ASN:CB	1.92	0.67
1:3:336:PRO:HB3	1:3:432:TYR:O	1.95	0.67
1:b:36:HIS:CE1	1:c:34:VAL:CG2	2.78	0.67
1:b:37:SER:HG	1:c:257:ARG:CG	1.93	0.67
1:g:92:GLN:OE1	1:g:228:ASN:ND2	2.27	0.67
1:g:336:PRO:HB3	1:g:432:TYR:O	1.95	0.67
1:g:386:ASP:HB2	1:g:552:LYS:HE3	1.76	0.67
1:g:435:THR:HG21	1:h:339:GLN:HE22	1.60	0.67
1:j:97:ILE:HG21	1:j:340:ILE:HD12	1.77	0.67
1:j:336:PRO:HB3	1:j:432:TYR:O	1.95	0.67
1:k:54:VAL:HB	1:k:520:ALA:HB3	1.77	0.67
1:l:68:MET:HA	1:l:69:SER:HB3	1.77	0.67
1:m:96:THR:HG21	1:m:221:ILE:HG12	1.77	0.67
1:x:92:GLN:OE1	1:x:228:ASN:ND2	2.27	0.67
1:z:92:GLN:OE1	1:z:228:ASN:ND2	2.27	0.67
1:6:247:LEU:O	1:6:248:GLU:CB	2.42	0.67
1:A:336:PRO:HB3	1:A:432:TYR:O	1.95	0.67
1:B:435:THR:HG21	1:J:339:GLN:HE22	1.60	0.67
1:C:336:PRO:HB3	1:C:432:TYR:O	1.95	0.67
1:C:339:GLN:HE22	1:M:435:THR:HG21	1.60	0.67
1:D:93:GLY:C	1:D:96:THR:HG23	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:36:HIS:C	1:G:257:ARG:HD2	2.18	0.67
1:F:336:PRO:HB3	1:F:432:TYR:O	1.95	0.67
1:H:97:ILE:HG21	1:H:340:ILE:HD12	1.77	0.67
1:K:257:ARG:HD3	1:6:36:HIS:C	2.20	0.67
1:M:54:VAL:HB	1:M:520:ALA:HB3	1.77	0.67
1:M:98:ASN:CB	1:1:316:ARG:HH22	1.92	0.67
1:M:257:ARG:HD2	1:2:36:HIS:C	2.18	0.67
1:N:97:ILE:HG21	1:N:340:ILE:HD12	1.77	0.67
1:O:534:PRO:HG3	1:O:562:ALA:HB1	1.77	0.67
1:P:534:PRO:HG3	1:P:562:ALA:HB1	1.77	0.67
1:S:54:VAL:HB	1:S:520:ALA:HB3	1.77	0.67
1:T:107:THR:HG22	1:T:209:TYR:O	1.93	0.67
1:T:336:PRO:HB3	1:T:432:TYR:O	1.95	0.67
1:T:534:PRO:HG3	1:T:562:ALA:HB1	1.77	0.67
1:T:548:ASN:OD1	1:T:549:ALA:N	2.26	0.67
1:U:36:HIS:C	1:4:257:ARG:HD3	2.20	0.67
1:U:247:LEU:O	1:U:248:GLU:CB	2.42	0.67
1:V:96:THR:HG21	1:V:221:ILE:HG12	1.77	0.67
1:X:183:LEU:O	1:4:526:ARG:NH1	2.25	0.67
1:Y:54:VAL:HB	1:Y:520:ALA:HB3	1.77	0.67
1:Y:386:ASP:HB2	1:Y:552:LYS:HE3	1.76	0.67
1:Y:534:PRO:HG3	1:Y:562:ALA:HB1	1.77	0.67
1:Z:386:ASP:HB2	1:Z:552:LYS:HE3	1.76	0.67
1:1:96:THR:HG21	1:1:221:ILE:HG12	1.77	0.67
1:2:97:ILE:HG21	1:2:340:ILE:HD12	1.77	0.67
1:b:49:TYR:HB3	1:e:49:TYR:HB3	1.75	0.67
1:c:96:THR:HG21	1:c:221:ILE:HG12	1.77	0.67
1:e:534:PRO:HG3	1:e:562:ALA:HB1	1.77	0.67
1:g:68:MET:HA	1:g:69:SER:HB3	1.77	0.67
1:i:548:ASN:OD1	1:i:549:ALA:N	2.26	0.67
1:k:339:GLN:HE22	1:m:435:THR:HG21	1.60	0.67
1:l:257:ARG:HD2	1:r:36:HIS:C	2.18	0.67
1:n:36:HIS:C	1:z:257:ARG:HD3	2.20	0.67
1:n:282:SER:HB3	1:n:403:GLY:HA2	1.77	0.67
1:o:96:THR:HG21	1:o:221:ILE:HG12	1.77	0.67
1:o:336:PRO:HB3	1:o:432:TYR:O	1.95	0.67
1:p:68:MET:HA	1:p:69:SER:HB3	1.77	0.67
1:q:54:VAL:HB	1:q:520:ALA:HB3	1.77	0.67
1:q:435:THR:HG21	1:r:339:GLN:HE22	1.60	0.67
1:r:97:ILE:HG21	1:r:340:ILE:HD12	1.77	0.67
1:t:54:VAL:HB	1:t:520:ALA:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:96:THR:HG21	1:t:221:ILE:HG12	1.77	0.67
1:u:68:MET:HA	1:u:69:SER:HB3	1.77	0.67
1:u:336:PRO:HB3	1:u:432:TYR:O	1.95	0.67
1:w:98:ASN:CB	1:x:316:ARG:HH22	1.92	0.67
1:x:97:ILE:HG21	1:x:340:ILE:HD12	1.77	0.67
1:6:68:MET:HA	1:6:69:SER:HB3	1.77	0.67
1:7:96:THR:HG21	1:7:221:ILE:HG12	1.77	0.67
1:A:68:MET:HA	1:A:69:SER:HB3	1.77	0.67
1:A:98:ASN:CB	1:I:316:ARG:HH22	1.92	0.67
1:D:96:THR:HG21	1:D:221:ILE:HG12	1.77	0.67
1:E:68:MET:HA	1:E:69:SER:HB3	1.77	0.67
1:H:92:GLN:OE1	1:H:228:ASN:ND2	2.27	0.67
1:I:54:VAL:HB	1:I:520:ALA:HB3	1.77	0.67
1:I:96:THR:HG21	1:I:221:ILE:HG12	1.77	0.67
1:Q:97:ILE:HG21	1:Q:340:ILE:HD12	1.77	0.67
1:R:98:ASN:CB	1:U:316:ARG:HH22	1.92	0.67
1:R:336:PRO:HB3	1:R:432:TYR:O	1.94	0.67
1:T:339:GLN:HE22	1:f:435:THR:HG21	1.60	0.67
1:Y:96:THR:HG21	1:Y:221:ILE:HG12	1.77	0.67
1:Z:98:ASN:CB	1:w:316:ARG:HH22	1.92	0.67
1:1:54:VAL:HB	1:1:520:ALA:HB3	1.77	0.67
1:1:97:ILE:HG21	1:1:340:ILE:HD12	1.77	0.67
1:1:107:THR:HG22	1:1:209:TYR:O	1.93	0.67
1:2:435:THR:HG21	1:i:339:GLN:HE22	1.60	0.67
1:3:282:SER:HB3	1:3:403:GLY:HA2	1.77	0.67
1:c:339:GLN:HE22	1:e:435:THR:HG21	1.60	0.67
1:f:97:ILE:HG21	1:f:340:ILE:HD12	1.77	0.67
1:k:534:PRO:HG3	1:k:562:ALA:HB1	1.77	0.67
1:l:92:GLN:OE1	1:l:228:ASN:ND2	2.27	0.67
1:l:386:ASP:HB2	1:l:552:LYS:HE3	1.76	0.67
1:o:36:HIS:C	1:v:257:ARG:HD2	2.18	0.67
1:q:96:THR:HG21	1:q:221:ILE:HG12	1.77	0.67
1:s:534:PRO:HG3	1:s:562:ALA:HB1	1.77	0.67
1:t:183:LEU:O	1:v:526:ARG:NH1	2.26	0.67
1:x:534:PRO:HG3	1:x:562:ALA:HB1	1.77	0.67
1:y:435:THR:HG21	1:z:339:GLN:HE22	1.60	0.67
1:H:534:PRO:HG3	1:H:562:ALA:HB1	1.77	0.67
1:I:336:PRO:HB3	1:I:432:TYR:O	1.94	0.67
1:J:68:MET:HA	1:J:69:SER:HB3	1.77	0.67
1:J:97:ILE:HG21	1:J:340:ILE:HD12	1.77	0.67
1:J:435:THR:HG21	1:L:339:GLN:HE22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:96:THR:HG21	1:L:221:ILE:HG12	1.77	0.67
1:M:36:HIS:C	1:N:257:ARG:HD3	2.20	0.67
1:M:183:LEU:O	1:1:526:ARG:NH1	2.25	0.67
1:O:183:LEU:O	1:h:526:ARG:NH1	2.26	0.67
1:R:435:THR:HG21	1:S:339:GLN:HE22	1.60	0.67
1:S:96:THR:HG21	1:S:221:ILE:HG12	1.77	0.67
1:S:534:PRO:HG3	1:S:562:ALA:HB1	1.77	0.67
1:T:68:MET:HA	1:T:69:SER:HB3	1.77	0.67
1:U:68:MET:HA	1:U:69:SER:HB3	1.77	0.67
1:Z:96:THR:HG21	1:Z:221:ILE:HG12	1.77	0.67
1:0:435:THR:HG21	1:7:339:GLN:HE22	1.60	0.67
1:0:534:PRO:HG3	1:0:562:ALA:HB1	1.77	0.67
1:4:336:PRO:HB3	1:4:432:TYR:O	1.94	0.67
1:b:534:PRO:HG3	1:b:562:ALA:HB1	1.77	0.67
1:c:54:VAL:HB	1:c:520:ALA:HB3	1.77	0.67
1:c:97:ILE:HG21	1:c:340:ILE:HD12	1.77	0.67
1:c:107:THR:HG22	1:c:209:TYR:O	1.93	0.67
1:d:36:HIS:C	1:r:257:ARG:HD3	2.20	0.67
1:d:257:ARG:HD2	1:f:36:HIS:C	2.18	0.67
1:d:435:THR:HG21	1:e:339:GLN:HE22	1.60	0.67
1:i:534:PRO:HG3	1:i:562:ALA:HB1	1.77	0.67
1:j:282:SER:HB3	1:j:403:GLY:HA2	1.77	0.67
1:r:54:VAL:HB	1:r:520:ALA:HB3	1.77	0.67
1:r:92:GLN:OE1	1:r:228:ASN:ND2	2.27	0.67
1:t:107:THR:HG22	1:t:209:TYR:O	1.93	0.67
1:t:336:PRO:HB3	1:t:432:TYR:O	1.95	0.67
1:t:435:THR:HG21	1:u:339:GLN:HE22	1.60	0.67
1:z:93:GLY:C	1:z:96:THR:HG23	2.20	0.67
1:A:435:THR:HG21	1:G:339:GLN:HE22	1.59	0.66
1:B:339:GLN:HE22	1:L:435:THR:HG21	1.60	0.66
1:F:92:GLN:OE1	1:F:228:ASN:ND2	2.27	0.66
1:G:36:HIS:CE1	1:W:33:GLY:C	2.44	0.66
1:H:183:LEU:O	1:Y:526:ARG:NH1	2.26	0.66
1:I:97:ILE:HG21	1:I:340:ILE:HD12	1.77	0.66
1:L:68:MET:HA	1:L:69:SER:HB3	1.77	0.66
1:L:534:PRO:HG3	1:L:562:ALA:HB1	1.77	0.66
1:N:54:VAL:HB	1:N:520:ALA:HB3	1.77	0.66
1:N:107:THR:HG21	1:N:209:TYR:HD2	1.61	0.66
1:O:96:THR:HG21	1:O:221:ILE:HG12	1.77	0.66
1:O:97:ILE:HG21	1:O:340:ILE:HD12	1.77	0.66
1:P:386:ASP:HB2	1:P:552:LYS:HE3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:282:SER:HB3	1:R:403:GLY:HA2	1.77	0.66
1:S:93:GLY:C	1:S:96:THR:HG23	2.20	0.66
1:U:93:GLY:C	1:U:96:THR:HG23	2.20	0.66
1:V:257:ARG:HD2	1:W:36:HIS:C	2.18	0.66
1:V:339:GLN:HE22	1:X:435:THR:HG21	1.60	0.66
1:X:534:PRO:HG3	1:X:562:ALA:HB1	1.77	0.66
1:5:68:MET:HA	1:5:69:SER:HB3	1.77	0.66
1:5:97:ILE:HG21	1:5:340:ILE:HD12	1.77	0.66
1:b:96:THR:HG21	1:b:221:ILE:HG12	1.77	0.66
1:b:97:ILE:HG21	1:b:340:ILE:HD12	1.77	0.66
1:d:96:THR:HG21	1:d:221:ILE:HG12	1.77	0.66
1:f:93:GLY:C	1:f:96:THR:HG23	2.20	0.66
1:i:36:HIS:C	1:6:257:ARG:HD3	2.20	0.66
1:n:33:GLY:C	1:s:36:HIS:CE1	2.45	0.66
1:q:93:GLY:C	1:q:96:THR:HG23	2.20	0.66
1:s:386:ASP:HB2	1:s:552:LYS:HE3	1.76	0.66
1:w:36:HIS:C	1:7:257:ARG:HD2	2.18	0.66
1:y:282:SER:HB3	1:y:403:GLY:HA2	1.77	0.66
1:y:336:PRO:HB3	1:y:432:TYR:O	1.95	0.66
1:z:96:THR:HG21	1:z:221:ILE:HG12	1.77	0.66
1:z:534:PRO:HG3	1:z:562:ALA:HB1	1.77	0.66
1:B:68:MET:HA	1:B:69:SER:HB3	1.77	0.66
1:D:257:ARG:HD3	1:E:36:HIS:C	2.20	0.66
1:F:107:THR:HG21	1:F:209:TYR:HD2	1.61	0.66
1:I:107:THR:HG21	1:I:209:TYR:HD2	1.61	0.66
1:I:107:THR:HG22	1:I:209:TYR:O	1.93	0.66
1:K:336:PRO:HB3	1:K:432:TYR:O	1.95	0.66
1:K:339:GLN:HE22	1:7:435:THR:HG21	1.60	0.66
1:M:96:THR:HG21	1:M:221:ILE:HG12	1.77	0.66
1:N:92:GLN:OE1	1:N:228:ASN:ND2	2.27	0.66
1:N:282:SER:HB3	1:N:403:GLY:HA2	1.77	0.66
1:O:107:THR:HG21	1:O:209:TYR:HD2	1.61	0.66
1:V:282:SER:HB3	1:V:403:GLY:HA2	1.77	0.66
1:V:435:THR:HG21	1:4:339:GLN:HE22	1.60	0.66
1:X:282:SER:HB3	1:X:403:GLY:HA2	1.77	0.66
1:2:68:MET:HA	1:2:69:SER:HB3	1.77	0.66
1:2:93:GLY:C	1:2:96:THR:HG23	2.20	0.66
1:4:534:PRO:HG3	1:4:562:ALA:HB1	1.77	0.66
1:b:68:MET:HA	1:b:69:SER:HB3	1.77	0.66
1:c:526:ARG:NH1	1:d:183:LEU:O	2.26	0.66
1:e:93:GLY:C	1:e:96:THR:HG23	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:92:GLN:OE1	1:f:228:ASN:ND2	2.27	0.66
1:i:68:MET:HA	1:i:69:SER:HB3	1.77	0.66
1:k:96:THR:HG21	1:k:221:ILE:HG12	1.77	0.66
1:k:107:THR:HG21	1:k:209:TYR:HD2	1.61	0.66
1:n:97:ILE:HG21	1:n:340:ILE:HD12	1.77	0.66
1:o:386:ASP:HB2	1:o:552:LYS:HE3	1.76	0.66
1:q:336:PRO:HB3	1:q:432:TYR:O	1.95	0.66
1:r:107:THR:HG21	1:r:209:TYR:HD2	1.61	0.66
1:t:97:ILE:HG21	1:t:340:ILE:HD12	1.77	0.66
1:y:98:ASN:CB	1:6:316:ARG:HH22	1.92	0.66
1:6:93:GLY:C	1:6:96:THR:HG23	2.20	0.66
1:D:336:PRO:HB3	1:D:432:TYR:O	1.95	0.66
1:F:386:ASP:HB2	1:F:552:LYS:HE3	1.76	0.66
1:G:36:HIS:C	1:W:257:ARG:HD3	2.20	0.66
1:G:92:GLN:OE1	1:G:228:ASN:ND2	2.27	0.66
1:J:92:GLN:OE1	1:J:228:ASN:ND2	2.27	0.66
1:K:534:PRO:HG3	1:K:562:ALA:HB1	1.77	0.66
1:L:97:ILE:HG21	1:L:340:ILE:HD12	1.77	0.66
1:M:107:THR:HG21	1:M:209:TYR:HD2	1.61	0.66
1:N:68:MET:HA	1:N:69:SER:HB3	1.77	0.66
1:Q:54:VAL:HB	1:Q:520:ALA:HB3	1.77	0.66
1:R:96:THR:HG21	1:R:221:ILE:HG12	1.77	0.66
1:U:282:SER:HB3	1:U:403:GLY:HA2	1.77	0.66
1:W:282:SER:HB3	1:W:403:GLY:HA2	1.77	0.66
1:2:92:GLN:OE1	1:2:228:ASN:ND2	2.27	0.66
1:4:97:ILE:HG21	1:4:340:ILE:HD12	1.77	0.66
1:a:68:MET:HA	1:a:69:SER:HB3	1.77	0.66
1:c:92:GLN:OE1	1:c:228:ASN:ND2	2.27	0.66
1:c:316:ARG:HH22	1:d:98:ASN:CB	1.92	0.66
1:d:107:THR:HG21	1:d:209:TYR:HD2	1.61	0.66
1:f:68:MET:HA	1:f:69:SER:HB3	1.77	0.66
1:k:97:ILE:HG21	1:k:340:ILE:HD12	1.77	0.66
1:k:183:LEU:O	1:m:526:ARG:NH1	2.26	0.66
1:l:107:THR:HG21	1:l:209:TYR:HD2	1.61	0.66
1:o:92:GLN:OE1	1:o:228:ASN:ND2	2.27	0.66
1:o:107:THR:HG21	1:o:209:TYR:HD2	1.61	0.66
1:r:282:SER:HB3	1:r:403:GLY:HA2	1.77	0.66
1:t:107:THR:HG21	1:t:209:TYR:HD2	1.61	0.66
1:u:97:ILE:HG21	1:u:340:ILE:HD12	1.77	0.66
1:y:96:THR:HG21	1:y:221:ILE:HG12	1.77	0.66
1:7:68:MET:HA	1:7:69:SER:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:ILE:HG21	1:A:340:ILE:HD12	1.77	0.66
1:C:93:GLY:C	1:C:96:THR:HG23	2.20	0.66
1:C:97:ILE:HG21	1:C:340:ILE:HD12	1.77	0.66
1:E:534:PRO:HG3	1:E:562:ALA:HB1	1.77	0.66
1:K:97:ILE:HG21	1:K:340:ILE:HD12	1.77	0.66
1:S:97:ILE:HG21	1:S:340:ILE:HD12	1.77	0.66
1:T:282:SER:HB3	1:T:403:GLY:HA2	1.77	0.66
1:V:183:LEU:O	1:X:526:ARG:NH1	2.25	0.66
1:0:282:SER:HB3	1:0:403:GLY:HA2	1.77	0.66
1:1:68:MET:HA	1:1:69:SER:HB3	1.77	0.66
1:4:36:HIS:CE1	1:b:34:VAL:CA	2.78	0.66
1:a:183:LEU:O	1:b:526:ARG:NH1	2.24	0.66
1:c:68:MET:HA	1:c:69:SER:HB3	1.77	0.66
1:d:282:SER:HB3	1:d:403:GLY:HA2	1.77	0.66
1:d:336:PRO:HB3	1:d:432:TYR:O	1.95	0.66
1:e:97:ILE:HG21	1:e:340:ILE:HD12	1.77	0.66
1:n:336:PRO:HB3	1:n:432:TYR:O	1.95	0.66
1:p:36:HIS:C	1:q:257:ARG:HD3	2.20	0.66
1:p:534:PRO:HG3	1:p:562:ALA:HB1	1.77	0.66
1:r:68:MET:HA	1:r:69:SER:HB3	1.77	0.66
1:t:339:GLN:HE22	1:v:435:THR:HG21	1.60	0.66
1:w:282:SER:HB3	1:w:403:GLY:HA2	1.77	0.66
1:6:282:SER:HB3	1:6:403:GLY:HA2	1.77	0.66
1:7:337:GLU:HB2	1:7:338:TRP:HA	1.78	0.66
1:A:49:TYR:HB3	1:F:49:TYR:HB3	1.77	0.66
1:F:534:PRO:HG3	1:F:562:ALA:HB1	1.77	0.66
1:G:93:GLY:C	1:G:96:THR:HG23	2.20	0.66
1:G:337:GLU:HB2	1:G:338:TRP:HA	1.78	0.66
1:H:526:ARG:NH1	1:W:183:LEU:O	2.25	0.66
1:I:36:HIS:C	1:J:257:ARG:HD3	2.20	0.66
1:J:93:GLY:C	1:J:96:THR:HG23	2.20	0.66
1:L:36:HIS:C	1:1:257:ARG:HD2	2.18	0.66
1:M:93:GLY:C	1:M:96:THR:HG23	2.20	0.66
1:M:282:SER:HB3	1:M:403:GLY:HA2	1.77	0.66
1:M:336:PRO:HB3	1:M:432:TYR:O	1.95	0.66
1:M:337:GLU:HB2	1:M:338:TRP:HA	1.78	0.66
1:N:386:ASP:HB2	1:N:552:LYS:HE3	1.76	0.66
1:O:92:GLN:OE1	1:O:228:ASN:ND2	2.27	0.66
1:O:386:ASP:HB2	1:O:552:LYS:HE3	1.76	0.66
1:P:282:SER:HB3	1:P:403:GLY:HA2	1.77	0.66
1:Q:386:ASP:HB2	1:Q:552:LYS:HE3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:36:HIS:C	1:U:257:ARG:HD3	2.20	0.66
1:V:68:MET:HA	1:V:69:SER:HB3	1.77	0.66
1:W:316:ARG:HH22	1:Y:98:ASN:CB	1.92	0.66
1:X:96:THR:HG21	1:X:221:ILE:HG12	1.77	0.66
1:Y:97:ILE:HG21	1:Y:340:ILE:HD12	1.77	0.66
1:Z:97:ILE:HG21	1:Z:340:ILE:HD12	1.77	0.66
1:Z:526:ARG:NH1	1:x:183:LEU:O	2.26	0.66
1:1:92:GLN:OE1	1:1:228:ASN:ND2	2.27	0.66
1:5:92:GLN:OE1	1:5:228:ASN:ND2	2.27	0.66
1:d:93:GLY:C	1:d:96:THR:HG23	2.20	0.66
1:d:257:ARG:HD3	1:f:36:HIS:C	2.20	0.66
1:d:337:GLU:HB2	1:d:338:TRP:HA	1.78	0.66
1:g:107:THR:HG21	1:g:209:TYR:HD2	1.61	0.66
1:i:282:SER:HB3	1:i:403:GLY:HA2	1.77	0.66
1:j:36:HIS:C	1:k:257:ARG:HD3	2.20	0.66
1:k:92:GLN:OE1	1:k:228:ASN:ND2	2.27	0.66
1:n:54:VAL:HB	1:n:520:ALA:HB3	1.77	0.66
1:o:36:HIS:C	1:v:257:ARG:HD3	2.21	0.66
1:r:386:ASP:HB2	1:r:552:LYS:HE3	1.76	0.66
1:v:36:HIS:C	1:w:257:ARG:HD3	2.20	0.66
1:v:92:GLN:OE1	1:v:228:ASN:ND2	2.27	0.66
1:v:337:GLU:HB2	1:v:338:TRP:HA	1.78	0.66
1:w:183:LEU:O	1:x:526:ARG:NH1	2.26	0.66
1:y:68:MET:HA	1:y:69:SER:HB3	1.77	0.66
1:z:97:ILE:HG21	1:z:340:ILE:HD12	1.77	0.66
1:z:282:SER:HB3	1:z:403:GLY:HA2	1.77	0.66
1:7:282:SER:HB3	1:7:403:GLY:HA2	1.77	0.66
1:A:36:HIS:CE1	1:E:34:VAL:CG2	2.76	0.66
1:A:54:VAL:HB	1:A:520:ALA:HB3	1.77	0.66
1:D:97:ILE:HG21	1:D:340:ILE:HD12	1.77	0.66
1:E:282:SER:HB3	1:E:403:GLY:HA2	1.77	0.66
1:F:36:HIS:C	1:G:257:ARG:HD3	2.21	0.66
1:F:257:ARG:HD2	1:R:36:HIS:C	2.18	0.66
1:G:96:THR:HG21	1:G:221:ILE:HG12	1.77	0.66
1:G:435:THR:HG21	1:I:339:GLN:HE22	1.60	0.66
1:J:337:GLU:HB2	1:J:338:TRP:HA	1.78	0.66
1:K:107:THR:HG21	1:K:209:TYR:HD2	1.61	0.66
1:M:257:ARG:HD3	1:2:36:HIS:C	2.20	0.66
1:O:282:SER:HB3	1:O:403:GLY:HA2	1.77	0.66
1:O:337:GLU:HB2	1:O:338:TRP:HA	1.78	0.66
1:P:68:MET:HA	1:P:69:SER:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:336:PRO:HB3	1:Q:432:TYR:O	1.95	0.66
1:R:68:MET:HA	1:R:69:SER:HB3	1.77	0.66
1:R:534:PRO:HG3	1:R:562:ALA:HB1	1.77	0.66
1:S:282:SER:HB3	1:S:403:GLY:HA2	1.77	0.66
1:U:97:ILE:HG21	1:U:340:ILE:HD12	1.77	0.66
1:V:337:GLU:HB2	1:V:338:TRP:HA	1.78	0.66
1:X:107:THR:HG21	1:X:209:TYR:HD2	1.61	0.66
1:Y:282:SER:HB3	1:Y:403:GLY:HA2	1.77	0.66
1:0:96:THR:HG21	1:0:221:ILE:HG12	1.77	0.66
1:0:526:ARG:NH1	1:7:183:LEU:O	2.25	0.66
1:5:257:ARG:HD3	1:t:36:HIS:C	2.20	0.66
1:5:337:GLU:HB2	1:5:338:TRP:HA	1.78	0.66
1:5:534:PRO:HG3	1:5:562:ALA:HB1	1.77	0.66
1:d:150:ILE:HD11	1:d:174:LEU:HB2	1.78	0.66
1:k:386:ASP:HB2	1:k:552:LYS:HE3	1.76	0.66
1:m:92:GLN:OE1	1:m:228:ASN:ND2	2.27	0.66
1:n:386:ASP:HB2	1:n:552:LYS:HE3	1.76	0.66
1:o:534:PRO:HG3	1:o:562:ALA:HB1	1.77	0.66
1:p:282:SER:HB3	1:p:403:GLY:HA2	1.77	0.66
1:s:282:SER:HB3	1:s:403:GLY:HA2	1.77	0.66
1:t:316:ARG:HH22	1:u:98:ASN:CB	1.92	0.66
1:u:435:THR:HG21	1:v:339:GLN:HE22	1.60	0.66
1:v:93:GLY:C	1:v:96:THR:HG23	2.20	0.66
1:6:97:ILE:HG21	1:6:340:ILE:HD12	1.77	0.66
1:7:386:ASP:HB2	1:7:552:LYS:HE3	1.76	0.66
1:A:339:GLN:HE22	1:I:435:THR:HG21	1.60	0.66
1:C:54:VAL:HB	1:C:520:ALA:HB3	1.77	0.66
1:D:526:ARG:NH1	1:N:183:LEU:O	2.25	0.66
1:J:150:ILE:HD11	1:J:174:LEU:HB2	1.78	0.66
1:J:534:PRO:HG3	1:J:562:ALA:HB1	1.77	0.66
1:L:150:ILE:HD11	1:L:174:LEU:HB2	1.78	0.66
1:M:150:ILE:HD11	1:M:174:LEU:HB2	1.78	0.66
1:N:36:HIS:C	1:g:257:ARG:HD3	2.21	0.66
1:P:107:THR:HG21	1:P:209:TYR:HD2	1.61	0.66
1:V:386:ASP:HB2	1:V:552:LYS:HE3	1.76	0.66
1:X:36:HIS:C	1:Y:257:ARG:HD3	2.21	0.66
1:X:336:PRO:HB3	1:X:432:TYR:O	1.95	0.66
1:X:337:GLU:HB2	1:X:338:TRP:HA	1.78	0.66
1:Y:150:ILE:HD11	1:Y:174:LEU:HB2	1.78	0.66
1:Z:150:ILE:HD11	1:Z:174:LEU:HB2	1.78	0.66
1:Z:257:ARG:HD3	1:0:36:HIS:C	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:282:SER:HB3	1:Z:403:GLY:HA2	1.77	0.66
1:0:107:THR:HG21	1:0:209:TYR:HD2	1.61	0.66
1:0:336:PRO:HB3	1:0:432:TYR:O	1.95	0.66
1:5:93:GLY:C	1:5:96:THR:HG23	2.20	0.66
1:5:150:ILE:HD11	1:5:174:LEU:HB2	1.78	0.66
1:a:247:LEU:O	1:a:248:GLU:CB	2.42	0.66
1:b:150:ILE:HD11	1:b:174:LEU:HB2	1.78	0.66
1:h:92:GLN:OE1	1:h:228:ASN:ND2	2.27	0.66
1:h:150:ILE:HD11	1:h:174:LEU:HB2	1.78	0.66
1:j:337:GLU:HB2	1:j:338:TRP:HA	1.78	0.66
1:j:534:PRO:HG3	1:j:562:ALA:HB1	1.77	0.66
1:k:337:GLU:HB2	1:k:338:TRP:HA	1.78	0.66
1:l:96:THR:HG21	1:l:221:ILE:HG12	1.77	0.66
1:m:150:ILE:HD11	1:m:174:LEU:HB2	1.78	0.66
1:n:257:ARG:HD3	1:s:36:HIS:C	2.21	0.66
1:n:337:GLU:HB2	1:n:338:TRP:HA	1.78	0.66
1:o:97:ILE:HG21	1:o:340:ILE:HD12	1.77	0.66
1:s:68:MET:HA	1:s:69:SER:HB3	1.77	0.66
1:s:107:THR:HG21	1:s:209:TYR:HD2	1.61	0.66
1:u:54:VAL:HB	1:u:520:ALA:HB3	1.77	0.66
1:u:337:GLU:HB2	1:u:338:TRP:HA	1.78	0.66
1:v:96:THR:HG21	1:v:221:ILE:HG12	1.77	0.66
1:A:386:ASP:HB2	1:A:552:LYS:HE3	1.76	0.66
1:B:150:ILE:HD11	1:B:174:LEU:HB2	1.78	0.66
1:B:534:PRO:HG3	1:B:562:ALA:HB1	1.77	0.66
1:F:337:GLU:HB2	1:F:338:TRP:HA	1.78	0.66
1:F:357:GLN:HB3	1:F:362:SER:HB3	1.78	0.66
1:I:247:LEU:O	1:I:248:GLU:CB	2.42	0.66
1:J:36:HIS:C	1:0:257:ARG:HD3	2.20	0.66
1:K:68:MET:HA	1:K:69:SER:HB3	1.77	0.66
1:L:54:VAL:HB	1:L:520:ALA:HB3	1.77	0.66
1:L:336:PRO:HB3	1:L:432:TYR:O	1.95	0.66
1:M:92:GLN:OE1	1:M:228:ASN:ND2	2.27	0.66
1:W:49:TYR:HB3	1:X:49:TYR:HB3	1.78	0.66
1:X:257:ARG:HD3	1:5:36:HIS:C	2.20	0.66
1:Y:107:THR:HG21	1:Y:209:TYR:HD2	1.61	0.66
1:Z:107:THR:HG21	1:Z:209:TYR:HD2	1.61	0.66
1:0:49:TYR:HB3	1:w:49:TYR:HB3	1.78	0.66
1:1:107:THR:HG21	1:1:209:TYR:HD2	1.61	0.66
1:1:282:SER:HB3	1:1:403:GLY:HA2	1.77	0.66
1:2:282:SER:HB3	1:2:403:GLY:HA2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:534:PRO:HG3	1:3:562:ALA:HB1	1.77	0.66
1:4:107:THR:HG21	1:4:209:TYR:HD2	1.61	0.66
1:a:150:ILE:HD11	1:a:174:LEU:HB2	1.78	0.66
1:c:107:THR:HG21	1:c:209:TYR:HD2	1.61	0.66
1:e:107:THR:HG21	1:e:209:TYR:HD2	1.61	0.66
1:g:96:THR:HG21	1:g:221:ILE:HG12	1.77	0.66
1:j:93:GLY:C	1:j:96:THR:HG23	2.20	0.66
1:k:282:SER:HB3	1:k:403:GLY:HA2	1.77	0.66
1:n:257:ARG:HD2	1:s:36:HIS:C	2.18	0.66
1:o:257:ARG:HD2	1:y:36:HIS:C	2.18	0.66
1:p:107:THR:HG21	1:p:209:TYR:HD2	1.61	0.66
1:u:386:ASP:HB2	1:u:552:LYS:HE3	1.76	0.66
1:v:36:HIS:CE1	1:w:33:GLY:C	2.44	0.66
1:x:282:SER:HB3	1:x:403:GLY:HA2	1.77	0.66
1:x:336:PRO:HB3	1:x:432:TYR:O	1.94	0.66
1:y:534:PRO:HG3	1:y:562:ALA:HB1	1.77	0.66
1:7:534:PRO:HG3	1:7:562:ALA:HB1	1.77	0.66
1:A:337:GLU:HB2	1:A:338:TRP:HA	1.78	0.66
1:B:247:LEU:O	1:B:248:GLU:CB	2.42	0.66
1:C:68:MET:HA	1:C:69:SER:HB3	1.77	0.66
1:C:150:ILE:HD11	1:C:174:LEU:HB2	1.78	0.66
1:D:98:ASN:CB	1:P:316:ARG:HH22	1.92	0.66
1:D:337:GLU:HB2	1:D:338:TRP:HA	1.78	0.66
1:E:92:GLN:OE1	1:E:228:ASN:ND2	2.27	0.66
1:E:107:THR:HG21	1:E:209:TYR:HD2	1.61	0.66
1:H:282:SER:HB3	1:H:403:GLY:HA2	1.77	0.66
1:K:183:LEU:O	1:7:526:ARG:NH1	2.25	0.66
1:L:36:HIS:C	1:1:257:ARG:HD3	2.20	0.66
1:N:96:THR:HG21	1:N:221:ILE:HG12	1.77	0.66
1:O:257:ARG:HD3	1:3:36:HIS:C	2.21	0.66
1:P:36:HIS:C	1:Q:257:ARG:HD2	2.18	0.66
1:P:36:HIS:C	1:Q:257:ARG:HD3	2.21	0.66
1:P:336:PRO:HB3	1:P:432:TYR:O	1.94	0.66
1:Q:337:GLU:HB2	1:Q:338:TRP:HA	1.78	0.66
1:S:68:MET:HA	1:S:69:SER:HB3	1.77	0.66
1:T:435:THR:HG21	1:3:339:GLN:HE22	1.60	0.66
1:U:107:THR:HG21	1:U:209:TYR:HD2	1.61	0.66
1:V:534:PRO:HG3	1:V:562:ALA:HB1	1.77	0.66
1:0:337:GLU:HB2	1:0:338:TRP:HA	1.78	0.66
1:3:337:GLU:HB2	1:3:338:TRP:HA	1.78	0.66
1:5:429:ARG:HH12	1:b:94:ARG:NH2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:534:PRO:HG3	1:a:562:ALA:HB1	1.77	0.66
1:b:336:PRO:HB3	1:b:432:TYR:O	1.94	0.66
1:c:150:ILE:HD11	1:c:174:LEU:HB2	1.78	0.66
1:c:282:SER:HB3	1:c:403:GLY:HA2	1.77	0.66
1:c:386:ASP:HB2	1:c:552:LYS:HE3	1.76	0.66
1:d:92:GLN:OE1	1:d:228:ASN:ND2	2.27	0.66
1:d:386:ASP:HB2	1:d:552:LYS:HE3	1.76	0.66
1:e:54:VAL:HB	1:e:520:ALA:HB3	1.77	0.66
1:e:68:MET:HA	1:e:69:SER:HB3	1.77	0.66
1:e:150:ILE:HD11	1:e:174:LEU:HB2	1.78	0.66
1:f:54:VAL:HB	1:f:520:ALA:HB3	1.77	0.66
1:i:93:GLY:C	1:i:96:THR:HG23	2.20	0.66
1:i:435:THR:HG21	1:j:339:GLN:HE22	1.60	0.66
1:m:534:PRO:HG3	1:m:562:ALA:HB1	1.77	0.66
1:o:337:GLU:HB2	1:o:338:TRP:HA	1.78	0.66
1:o:357:GLN:HB3	1:o:362:SER:HB3	1.78	0.66
1:p:36:HIS:CE1	1:q:33:GLY:C	2.45	0.66
1:p:92:GLN:OE1	1:p:228:ASN:ND2	2.27	0.66
1:q:97:ILE:HG21	1:q:340:ILE:HD12	1.77	0.66
1:q:98:ASN:CB	1:s:316:ARG:HH22	1.92	0.66
1:q:339:GLN:HE22	1:s:435:THR:HG21	1.60	0.66
1:s:93:GLY:C	1:s:96:THR:HG23	2.20	0.66
1:u:107:THR:HG21	1:u:209:TYR:HD2	1.61	0.66
1:v:247:LEU:O	1:v:248:GLU:CB	2.42	0.66
1:x:68:MET:HA	1:x:69:SER:HB3	1.77	0.66
1:z:68:MET:HA	1:z:69:SER:HB3	1.77	0.66
1:A:107:THR:HG21	1:A:209:TYR:HD2	1.61	0.66
1:B:183:LEU:O	1:L:526:ARG:NH1	2.26	0.66
1:C:107:THR:HG21	1:C:209:TYR:HD2	1.61	0.66
1:D:33:GLY:C	1:E:36:HIS:CE1	2.45	0.66
1:D:257:ARG:HD2	1:E:36:HIS:C	2.18	0.66
1:F:68:MET:HA	1:F:69:SER:HB3	1.77	0.66
1:G:282:SER:HB3	1:G:403:GLY:HA2	1.77	0.66
1:H:68:MET:HA	1:H:69:SER:HB3	1.77	0.66
1:H:257:ARG:HD3	1:Z:36:HIS:C	2.20	0.66
1:H:336:PRO:HB3	1:H:432:TYR:O	1.95	0.66
1:M:386:ASP:HB2	1:M:552:LYS:HE3	1.76	0.66
1:N:150:ILE:HD11	1:N:174:LEU:HB2	1.78	0.66
1:P:93:GLY:C	1:P:96:THR:HG23	2.20	0.66
1:Q:534:PRO:HG3	1:Q:562:ALA:HB1	1.77	0.66
1:R:54:VAL:HB	1:R:520:ALA:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:93:GLY:C	1:T:96:THR:HG23	2.20	0.66
1:T:97:ILE:HG21	1:T:340:ILE:HD12	1.77	0.66
1:T:316:ARG:HH22	1:3:98:ASN:CB	1.92	0.66
1:U:54:VAL:HB	1:U:520:ALA:HB3	1.77	0.66
1:U:357:GLN:HB3	1:U:362:SER:HB3	1.78	0.66
1:V:526:ARG:NH1	1:4:183:LEU:O	2.25	0.66
1:X:339:GLN:HE22	1:4:435:THR:HG21	1.60	0.66
1:Y:36:HIS:C	1:x:257:ARG:HD3	2.20	0.66
1:Z:357:GLN:HB3	1:Z:362:SER:HB3	1.78	0.66
1:2:54:VAL:HB	1:2:520:ALA:HB3	1.77	0.66
1:2:183:LEU:O	1:j:526:ARG:NH1	2.26	0.66
1:3:93:GLY:C	1:3:96:THR:HG23	2.20	0.66
1:3:435:THR:HG21	1:f:339:GLN:HE22	1.60	0.66
1:4:150:ILE:HD11	1:4:174:LEU:HB2	1.78	0.66
1:5:107:THR:HG21	1:5:209:TYR:HD2	1.61	0.66
1:b:54:VAL:HB	1:b:520:ALA:HB3	1.77	0.66
1:f:282:SER:HB3	1:f:403:GLY:HA2	1.77	0.66
1:h:107:THR:HG21	1:h:209:TYR:HD2	1.61	0.66
1:i:49:TYR:HB3	1:z:49:TYR:HB3	1.78	0.66
1:i:97:ILE:HG21	1:i:340:ILE:HD12	1.77	0.66
1:l:357:GLN:HB3	1:l:362:SER:HB3	1.78	0.66
1:m:54:VAL:HB	1:m:520:ALA:HB3	1.77	0.66
1:m:107:THR:HG21	1:m:209:TYR:HD2	1.61	0.66
1:n:36:HIS:C	1:z:257:ARG:HD2	2.18	0.66
1:o:68:MET:HA	1:o:69:SER:HB3	1.77	0.66
1:r:150:ILE:HD11	1:r:174:LEU:HB2	1.78	0.66
1:r:357:GLN:HB3	1:r:362:SER:HB3	1.78	0.66
1:v:97:ILE:HG21	1:v:340:ILE:HD12	1.77	0.66
1:x:54:VAL:HB	1:x:520:ALA:HB3	1.77	0.66
1:E:247:LEU:O	1:E:248:GLU:CB	2.42	0.65
1:G:247:LEU:O	1:G:248:GLU:CB	2.42	0.65
1:H:247:LEU:O	1:H:248:GLU:CB	2.42	0.65
1:H:337:GLU:HB2	1:H:338:TRP:HA	1.78	0.65
1:K:54:VAL:HB	1:K:520:ALA:HB3	1.77	0.65
1:K:435:THR:HG21	1:0:339:GLN:HE22	1.60	0.65
1:L:282:SER:HB3	1:L:403:GLY:HA2	1.77	0.65
1:M:255:LEU:O	1:M:256:LEU:HD23	1.97	0.65
1:R:257:ARG:HD3	1:V:36:HIS:C	2.21	0.65
1:S:49:TYR:HB3	1:T:49:TYR:HB3	1.78	0.65
1:V:107:THR:HG21	1:V:209:TYR:HD2	1.61	0.65
1:V:150:ILE:HD11	1:V:174:LEU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:336:PRO:HB3	1:Y:432:TYR:O	1.95	0.65
1:Z:339:GLN:HE22	1:w:435:THR:HG21	1.60	0.65
1:2:534:PRO:HG3	1:2:562:ALA:HB1	1.77	0.65
1:3:255:LEU:O	1:3:256:LEU:HD23	1.97	0.65
1:5:526:ARG:NH1	1:b:183:LEU:O	2.28	0.65
1:d:97:ILE:HG21	1:d:340:ILE:HD12	1.77	0.65
1:d:255:LEU:O	1:d:256:LEU:HD23	1.97	0.65
1:f:357:GLN:HB3	1:f:362:SER:HB3	1.78	0.65
1:g:357:GLN:HB3	1:g:362:SER:HB3	1.78	0.65
1:h:534:PRO:HG3	1:h:562:ALA:HB1	1.77	0.65
1:j:255:LEU:O	1:j:256:LEU:HD23	1.97	0.65
1:l:257:ARG:HD3	1:r:36:HIS:C	2.21	0.65
1:p:54:VAL:HB	1:p:520:ALA:HB3	1.77	0.65
1:q:526:ARG:NH1	1:r:183:LEU:O	2.25	0.65
1:t:247:LEU:O	1:t:248:GLU:CB	2.42	0.65
1:v:282:SER:HB3	1:v:403:GLY:HA2	1.77	0.65
1:x:247:LEU:O	1:x:248:GLU:CB	2.42	0.65
1:x:255:LEU:O	1:x:256:LEU:HD23	1.97	0.65
1:y:54:VAL:HB	1:y:520:ALA:HB3	1.77	0.65
1:y:337:GLU:HB2	1:y:338:TRP:HA	1.78	0.65
1:z:337:GLU:HB2	1:z:338:TRP:HA	1.78	0.65
1:6:357:GLN:HB3	1:6:362:SER:HB3	1.78	0.65
1:7:107:THR:HG21	1:7:209:TYR:HD2	1.61	0.65
1:A:96:THR:HG21	1:A:221:ILE:HG12	1.77	0.65
1:A:284:ARG:NH2	1:G:100:SER:HA	2.11	0.65
1:D:255:LEU:O	1:D:256:LEU:HD23	1.97	0.65
1:E:54:VAL:HB	1:E:520:ALA:HB3	1.77	0.65
1:E:89:GLN:HB3	1:E:90:ASP:HA	1.79	0.65
1:F:97:ILE:HG21	1:F:340:ILE:HD12	1.77	0.65
1:H:89:GLN:HB3	1:H:90:ASP:HA	1.79	0.65
1:J:107:THR:HG21	1:J:209:TYR:HD2	1.61	0.65
1:K:150:ILE:HD11	1:K:174:LEU:HB2	1.78	0.65
1:L:107:THR:HG21	1:L:209:TYR:HD2	1.61	0.65
1:N:357:GLN:HB3	1:N:362:SER:HB3	1.78	0.65
1:N:435:THR:HG21	1:P:339:GLN:HE22	1.60	0.65
1:O:435:THR:HG21	1:g:339:GLN:HE22	1.60	0.65
1:P:97:ILE:HG21	1:P:340:ILE:HD12	1.77	0.65
1:S:337:GLU:HB2	1:S:338:TRP:HA	1.78	0.65
1:S:357:GLN:HB3	1:S:362:SER:HB3	1.78	0.65
1:T:257:ARG:HD3	1:c:36:HIS:C	2.20	0.65
1:U:89:GLN:HB3	1:U:90:ASP:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:255:LEU:O	1:U:256:LEU:HD23	1.97	0.65
1:W:93:GLY:C	1:W:96:THR:HG23	2.20	0.65
1:W:435:THR:HG21	1:Y:339:GLN:HE22	1.60	0.65
1:Y:89:GLN:HB3	1:Y:90:ASP:HA	1.79	0.65
1:Y:93:GLY:C	1:Y:96:THR:HG23	2.20	0.65
1:Y:357:GLN:HB3	1:Y:362:SER:HB3	1.78	0.65
1:Z:257:ARG:HD2	1:0:36:HIS:C	2.18	0.65
1:Z:336:PRO:HB3	1:Z:432:TYR:O	1.95	0.65
1:1:150:ILE:HD11	1:1:174:LEU:HB2	1.78	0.65
1:1:386:ASP:HB2	1:1:552:LYS:HE3	1.76	0.65
1:2:339:GLN:HE22	1:j:435:THR:HG21	1.60	0.65
1:3:386:ASP:HB2	1:3:552:LYS:HE3	1.76	0.65
1:4:68:MET:HA	1:4:69:SER:HB3	1.77	0.65
1:b:107:THR:HG21	1:b:209:TYR:HD2	1.61	0.65
1:b:282:SER:HB3	1:b:403:GLY:HA2	1.77	0.65
1:d:89:GLN:HB3	1:d:90:ASP:HA	1.79	0.65
1:g:49:TYR:HB3	1:l:49:TYR:HB3	1.78	0.65
1:h:54:VAL:HB	1:h:520:ALA:HB3	1.77	0.65
1:j:386:ASP:HB2	1:j:552:LYS:HE3	1.76	0.65
1:k:36:HIS:C	1:s:257:ARG:HD2	2.18	0.65
1:k:435:THR:HG21	1:l:339:GLN:HE22	1.60	0.65
1:p:89:GLN:HB3	1:p:90:ASP:HA	1.79	0.65
1:q:255:LEU:O	1:q:256:LEU:HD23	1.97	0.65
1:q:337:GLU:HB2	1:q:338:TRP:HA	1.78	0.65
1:r:96:THR:HG21	1:r:221:ILE:HG12	1.77	0.65
1:r:435:THR:HG21	1:s:339:GLN:HE22	1.60	0.65
1:s:97:ILE:HG21	1:s:340:ILE:HD12	1.77	0.65
1:s:336:PRO:HB3	1:s:432:TYR:O	1.95	0.65
1:w:93:GLY:C	1:w:96:THR:HG23	2.20	0.65
1:w:107:THR:HG21	1:w:209:TYR:HD2	1.61	0.65
1:x:89:GLN:HB3	1:x:90:ASP:HA	1.79	0.65
1:x:337:GLU:HB2	1:x:338:TRP:HA	1.78	0.65
1:z:357:GLN:HB3	1:z:362:SER:HB3	1.78	0.65
1:6:89:GLN:HB3	1:6:90:ASP:HA	1.79	0.65
1:6:96:THR:HG21	1:6:221:ILE:HG12	1.77	0.65
1:6:107:THR:HG21	1:6:209:TYR:HD2	1.61	0.65
1:6:255:LEU:O	1:6:256:LEU:HD23	1.97	0.65
1:7:150:ILE:HD11	1:7:174:LEU:HB2	1.78	0.65
1:B:96:THR:HG21	1:B:221:ILE:HG12	1.77	0.65
1:B:257:ARG:HD2	1:C:36:HIS:C	2.18	0.65
1:G:68:MET:HA	1:G:69:SER:HB3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:97:ILE:HG21	1:G:340:ILE:HD12	1.77	0.65
1:H:54:VAL:HB	1:H:520:ALA:HB3	1.77	0.65
1:H:255:LEU:O	1:H:256:LEU:HD23	1.97	0.65
1:K:36:HIS:C	1:L:257:ARG:HD3	2.21	0.65
1:M:97:ILE:HG21	1:M:340:ILE:HD12	1.77	0.65
1:N:337:GLU:HB2	1:N:338:TRP:HA	1.78	0.65
1:O:68:MET:HA	1:O:69:SER:HB3	1.77	0.65
1:Q:36:HIS:C	1:S:257:ARG:HD2	2.18	0.65
1:Q:109:TRP:CE3	1:Q:485:LYS:HB2	2.32	0.65
1:Q:255:LEU:O	1:Q:256:LEU:HD23	1.97	0.65
1:R:337:GLU:HB2	1:R:338:TRP:HA	1.78	0.65
1:S:89:GLN:HB3	1:S:90:ASP:HA	1.79	0.65
1:S:255:LEU:O	1:S:256:LEU:HD23	1.97	0.65
1:U:96:THR:HG21	1:U:221:ILE:HG12	1.77	0.65
1:X:36:HIS:C	1:Y:257:ARG:HD2	2.18	0.65
1:X:89:GLN:HB3	1:X:90:ASP:HA	1.79	0.65
1:X:97:ILE:HG21	1:X:340:ILE:HD12	1.77	0.65
1:Z:68:MET:HA	1:Z:69:SER:HB3	1.77	0.65
1:Z:435:THR:HG21	1:x:339:GLN:HE22	1.60	0.65
1:0:89:GLN:HB3	1:0:90:ASP:HA	1.79	0.65
1:0:97:ILE:HG21	1:0:340:ILE:HD12	1.77	0.65
1:2:96:THR:HG21	1:2:221:ILE:HG12	1.77	0.65
1:2:357:GLN:HB3	1:2:362:SER:HB3	1.78	0.65
1:3:107:THR:HG21	1:3:209:TYR:HD2	1.61	0.65
1:4:54:VAL:HB	1:4:520:ALA:HB3	1.77	0.65
1:a:96:THR:HG21	1:a:221:ILE:HG12	1.77	0.65
1:a:97:ILE:HG21	1:a:340:ILE:HD12	1.77	0.65
1:c:89:GLN:HB3	1:c:90:ASP:HA	1.79	0.65
1:e:89:GLN:HB3	1:e:90:ASP:HA	1.79	0.65
1:f:96:THR:HG21	1:f:221:ILE:HG12	1.77	0.65
1:f:534:PRO:HG3	1:f:562:ALA:HB1	1.77	0.65
1:g:282:SER:HB3	1:g:403:GLY:HA2	1.77	0.65
1:j:107:THR:HG21	1:j:209:TYR:HD2	1.61	0.65
1:n:89:GLN:HB3	1:n:90:ASP:HA	1.79	0.65
1:n:534:PRO:HG3	1:n:562:ALA:HB1	1.77	0.65
1:o:257:ARG:HD3	1:y:36:HIS:C	2.20	0.65
1:p:36:HIS:C	1:q:257:ARG:HD2	2.18	0.65
1:p:96:THR:HG21	1:p:221:ILE:HG12	1.77	0.65
1:r:255:LEU:O	1:r:256:LEU:HD23	1.97	0.65
1:r:534:PRO:HG3	1:r:562:ALA:HB1	1.77	0.65
1:t:534:PRO:HG3	1:t:562:ALA:HB1	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:96:THR:HG21	1:u:221:ILE:HG12	1.77	0.65
1:y:257:ARG:HD3	1:7:36:HIS:C	2.21	0.65
1:z:89:GLN:HB3	1:z:90:ASP:HA	1.79	0.65
1:z:435:THR:HG21	1:6:339:GLN:HE22	1.60	0.65
1:6:54:VAL:HB	1:6:520:ALA:HB3	1.77	0.65
1:B:97:ILE:HG21	1:B:340:ILE:HD12	1.77	0.65
1:B:282:SER:HB3	1:B:403:GLY:HA2	1.77	0.65
1:D:339:GLN:HE22	1:P:435:THR:HG21	1.60	0.65
1:E:96:THR:HG21	1:E:221:ILE:HG12	1.77	0.65
1:F:257:ARG:HD3	1:R:36:HIS:C	2.20	0.65
1:G:534:PRO:HG3	1:G:562:ALA:HB1	1.77	0.65
1:I:89:GLN:HB3	1:I:90:ASP:HA	1.79	0.65
1:I:534:PRO:HG3	1:I:562:ALA:HB1	1.77	0.65
1:J:49:TYR:HB3	1:K:49:TYR:HB3	1.78	0.65
1:K:96:THR:HG21	1:K:221:ILE:HG12	1.77	0.65
1:L:255:LEU:O	1:L:256:LEU:HD23	1.97	0.65
1:M:68:MET:HA	1:M:69:SER:HB3	1.77	0.65
1:M:89:GLN:HB3	1:M:90:ASP:HA	1.79	0.65
1:O:257:ARG:HD2	1:3:36:HIS:C	2.18	0.65
1:P:109:TRP:CE3	1:P:485:LYS:HB2	2.32	0.65
1:Q:89:GLN:HB3	1:Q:90:ASP:HA	1.79	0.65
1:S:526:ARG:NH1	1:U:183:LEU:O	2.25	0.65
1:U:109:TRP:CE3	1:U:485:LYS:HB2	2.32	0.65
1:U:534:PRO:HG3	1:U:562:ALA:HB1	1.77	0.65
1:X:68:MET:HA	1:X:69:SER:HB3	1.77	0.65
1:0:357:GLN:HB3	1:0:362:SER:HB3	1.78	0.65
1:3:109:TRP:CE3	1:3:485:LYS:HB2	2.32	0.65
1:5:54:VAL:HB	1:5:520:ALA:HB3	1.77	0.65
1:5:173:LEU:HB2	1:5:487:ALA:HB3	1.79	0.65
1:5:247:LEU:O	1:5:248:GLU:CB	2.42	0.65
1:a:357:GLN:HB3	1:a:362:SER:HB3	1.78	0.65
1:b:255:LEU:O	1:b:256:LEU:HD23	1.97	0.65
1:e:33:GLY:C	1:q:36:HIS:CE1	2.45	0.65
1:k:68:MET:HA	1:k:69:SER:HB3	1.77	0.65
1:l:282:SER:HB3	1:l:403:GLY:HA2	1.77	0.65
1:n:109:TRP:CE3	1:n:485:LYS:HB2	2.32	0.65
1:t:33:GLY:C	1:x:36:HIS:CE1	2.45	0.65
1:t:89:GLN:HB3	1:t:90:ASP:HA	1.79	0.65
1:v:534:PRO:HG3	1:v:562:ALA:HB1	1.77	0.65
1:z:255:LEU:O	1:z:256:LEU:HD23	1.97	0.65
1:B:173:LEU:HB2	1:B:487:ALA:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:ARG:HD3	1:C:36:HIS:C	2.20	0.65
1:B:357:GLN:HB3	1:B:362:SER:HB3	1.78	0.65
1:C:89:GLN:HB3	1:C:90:ASP:HA	1.79	0.65
1:C:282:SER:HB3	1:C:403:GLY:HA2	1.77	0.65
1:C:337:GLU:HB2	1:C:338:TRP:HA	1.78	0.65
1:J:54:VAL:HB	1:J:520:ALA:HB3	1.77	0.65
1:J:282:SER:HB3	1:J:403:GLY:HA2	1.77	0.65
1:K:357:GLN:HB3	1:K:362:SER:HB3	1.78	0.65
1:L:342:TYR:CE1	1:L:347:PRO:HG3	2.32	0.65
1:L:357:GLN:HB3	1:L:362:SER:HB3	1.78	0.65
1:N:255:LEU:O	1:N:256:LEU:HD23	1.97	0.65
1:N:534:PRO:HG3	1:N:562:ALA:HB1	1.77	0.65
1:O:33:GLY:C	1:3:36:HIS:CE1	2.44	0.65
1:T:96:THR:HG21	1:T:221:ILE:HG12	1.77	0.65
1:T:107:THR:HG21	1:T:209:TYR:HD2	1.61	0.65
1:T:109:TRP:CE3	1:T:485:LYS:HB2	2.32	0.65
1:W:107:THR:HG21	1:W:209:TYR:HD2	1.61	0.65
1:X:357:GLN:HB3	1:X:362:SER:HB3	1.78	0.65
1:Y:49:TYR:HB3	1:Z:49:TYR:HB3	1.78	0.65
1:Y:68:MET:HA	1:Y:69:SER:HB3	1.77	0.65
1:Z:89:GLN:HB3	1:Z:90:ASP:HA	1.79	0.65
1:Z:93:GLY:C	1:Z:96:THR:HG23	2.20	0.65
1:0:54:VAL:HB	1:0:520:ALA:HB3	1.77	0.65
1:0:68:MET:HA	1:0:69:SER:HB3	1.77	0.65
1:1:89:GLN:HB3	1:1:90:ASP:HA	1.79	0.65
1:1:109:TRP:CE3	1:1:485:LYS:HB2	2.32	0.65
1:3:68:MET:HA	1:3:69:SER:HB3	1.77	0.65
1:3:357:GLN:HB3	1:3:362:SER:HB3	1.78	0.65
1:4:96:THR:HG21	1:4:221:ILE:HG12	1.77	0.65
1:a:36:HIS:C	1:u:257:ARG:HD2	2.19	0.65
1:a:173:LEU:HB2	1:a:487:ALA:HB3	1.79	0.65
1:a:282:SER:HB3	1:a:403:GLY:HA2	1.77	0.65
1:b:342:TYR:CE1	1:b:347:PRO:HG3	2.32	0.65
1:d:68:MET:HA	1:d:69:SER:HB3	1.77	0.65
1:e:282:SER:HB3	1:e:403:GLY:HA2	1.77	0.65
1:g:150:ILE:HD11	1:g:174:LEU:HB2	1.78	0.65
1:g:337:GLU:HB2	1:g:338:TRP:HA	1.78	0.65
1:h:255:LEU:O	1:h:256:LEU:HD23	1.97	0.65
1:i:107:THR:HG21	1:i:209:TYR:HD2	1.61	0.65
1:i:109:TRP:CE3	1:i:485:LYS:HB2	2.32	0.65
1:i:316:ARG:HH22	1:j:98:ASN:CB	1.92	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:68:MET:HA	1:j:69:SER:HB3	1.77	0.65
1:j:109:TRP:CE3	1:j:485:LYS:HB2	2.32	0.65
1:n:255:LEU:O	1:n:256:LEU:HD23	1.97	0.65
1:p:257:ARG:HD3	1:u:36:HIS:C	2.20	0.65
1:s:109:TRP:CE3	1:s:485:LYS:HB2	2.32	0.65
1:v:255:LEU:O	1:v:256:LEU:HD23	1.97	0.65
1:6:109:TRP:CE3	1:6:485:LYS:HB2	2.32	0.65
1:6:534:PRO:HG3	1:6:562:ALA:HB1	1.77	0.65
1:A:255:LEU:O	1:A:256:LEU:HD23	1.97	0.65
1:D:49:TYR:HB3	1:M:49:TYR:HB3	1.78	0.65
1:D:282:SER:HB3	1:D:403:GLY:HA2	1.77	0.65
1:E:49:TYR:HB3	1:P:49:TYR:HB3	1.78	0.65
1:H:36:HIS:C	1:I:257:ARG:HD3	2.21	0.65
1:H:339:GLN:HE22	1:Y:435:THR:HG21	1.60	0.65
1:J:173:LEU:HB2	1:J:487:ALA:HB3	1.79	0.65
1:L:36:HIS:CE1	1:1:33:GLY:C	2.44	0.65
1:N:36:HIS:CE1	1:g:33:GLY:C	2.45	0.65
1:O:36:HIS:C	1:P:257:ARG:HD3	2.20	0.65
1:Q:357:GLN:HB3	1:Q:362:SER:HB3	1.78	0.65
1:S:435:THR:HG21	1:U:339:GLN:HE22	1.60	0.65
1:T:150:ILE:HD11	1:T:174:LEU:HB2	1.78	0.65
1:V:357:GLN:HB3	1:V:362:SER:HB3	1.78	0.65
1:W:342:TYR:CE1	1:W:347:PRO:HG3	2.32	0.65
1:W:357:GLN:HB3	1:W:362:SER:HB3	1.78	0.65
1:X:173:LEU:HB2	1:X:487:ALA:HB3	1.79	0.65
1:Y:36:HIS:C	1:x:257:ARG:HD2	2.18	0.65
1:Y:337:GLU:HB2	1:Y:338:TRP:HA	1.78	0.65
1:Z:109:TRP:CE3	1:Z:485:LYS:HB2	2.32	0.65
1:1:49:TYR:HB3	1:2:49:TYR:HB3	1.78	0.65
1:2:342:TYR:CE1	1:2:347:PRO:HG3	2.32	0.65
1:4:89:GLN:HB3	1:4:90:ASP:HA	1.79	0.65
1:4:357:GLN:HB3	1:4:362:SER:HB3	1.78	0.65
1:5:282:SER:HB3	1:5:403:GLY:HA2	1.77	0.65
1:5:429:ARG:HH12	1:b:94:ARG:HH22	1.44	0.65
1:c:109:TRP:CE3	1:c:485:LYS:HB2	2.32	0.65
1:d:342:TYR:CE1	1:d:347:PRO:HG3	2.32	0.65
1:e:342:TYR:CE1	1:e:347:PRO:HG3	2.32	0.65
1:g:109:TRP:CE3	1:g:485:LYS:HB2	2.32	0.65
1:g:534:PRO:HG3	1:g:562:ALA:HB1	1.77	0.65
1:i:54:VAL:HB	1:i:520:ALA:HB3	1.77	0.65
1:i:150:ILE:HD11	1:i:174:LEU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:36:HIS:C	1:k:257:ARG:HD2	2.18	0.65
1:j:357:GLN:HB3	1:j:362:SER:HB3	1.78	0.65
1:l:109:TRP:CE3	1:l:485:LYS:HB2	2.32	0.65
1:l:150:ILE:HD11	1:l:174:LEU:HB2	1.78	0.65
1:m:255:LEU:O	1:m:256:LEU:HD23	1.97	0.65
1:n:357:GLN:HB3	1:n:362:SER:HB3	1.78	0.65
1:o:49:TYR:HB3	1:u:49:TYR:HB3	1.78	0.65
1:r:93:GLY:C	1:r:96:THR:HG23	2.20	0.65
1:r:337:GLU:HB2	1:r:338:TRP:HA	1.78	0.65
1:u:255:LEU:O	1:u:256:LEU:HD23	1.97	0.65
1:v:68:MET:HA	1:v:69:SER:HB3	1.77	0.65
1:v:342:TYR:CE1	1:v:347:PRO:HG3	2.32	0.65
1:w:357:GLN:HB3	1:w:362:SER:HB3	1.78	0.65
1:z:526:ARG:NH1	1:6:183:LEU:O	2.25	0.65
1:C:173:LEU:HB2	1:C:487:ALA:HB3	1.79	0.65
1:D:534:PRO:HG3	1:D:562:ALA:HB1	1.77	0.65
1:G:255:LEU:O	1:G:256:LEU:HD23	1.97	0.65
1:G:342:TYR:CE1	1:G:347:PRO:HG3	2.32	0.65
1:J:109:TRP:CE3	1:J:485:LYS:HB2	2.32	0.65
1:L:109:TRP:CE3	1:L:485:LYS:HB2	2.32	0.65
1:M:342:TYR:CE1	1:M:347:PRO:HG3	2.32	0.65
1:N:93:GLY:C	1:N:96:THR:HG23	2.20	0.65
1:N:284:ARG:NH2	1:P:100:SER:HA	2.12	0.65
1:R:173:LEU:HB2	1:R:487:ALA:HB3	1.79	0.65
1:S:36:HIS:C	1:3:257:ARG:HD3	2.21	0.65
1:Y:109:TRP:CE3	1:Y:485:LYS:HB2	2.32	0.65
1:0:173:LEU:HB2	1:0:487:ALA:HB3	1.79	0.65
1:1:36:HIS:C	1:i:257:ARG:HD3	2.21	0.65
1:5:109:TRP:CE3	1:5:485:LYS:HB2	2.32	0.65
1:a:36:HIS:C	1:u:257:ARG:HD3	2.21	0.65
1:a:107:THR:HG21	1:a:209:TYR:HD2	1.61	0.65
1:b:109:TRP:CE3	1:b:485:LYS:HB2	2.32	0.65
1:b:173:LEU:HB2	1:b:487:ALA:HB3	1.79	0.65
1:b:357:GLN:HB3	1:b:362:SER:HB3	1.78	0.65
1:d:49:TYR:HB3	1:q:49:TYR:HB3	1.78	0.65
1:e:173:LEU:HB2	1:e:487:ALA:HB3	1.79	0.65
1:e:337:GLU:HB2	1:e:338:TRP:HA	1.78	0.65
1:g:54:VAL:HB	1:g:520:ALA:HB3	1.77	0.65
1:i:96:THR:HG21	1:i:221:ILE:HG12	1.77	0.65
1:j:257:ARG:HD3	1:z:36:HIS:C	2.21	0.65
1:k:36:HIS:C	1:s:257:ARG:HD3	2.20	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:93:GLY:C	1:k:96:THR:HG23	2.20	0.65
1:l:342:TYR:CE1	1:l:347:PRO:HG3	2.32	0.65
1:n:96:THR:HG21	1:n:221:ILE:HG12	1.77	0.65
1:n:107:THR:HG21	1:n:209:TYR:HD2	1.61	0.65
1:p:49:TYR:HB3	1:s:49:TYR:HB3	1.78	0.65
1:p:337:GLU:HB2	1:p:338:TRP:HA	1.78	0.65
1:q:282:SER:HB3	1:q:403:GLY:HA2	1.77	0.65
1:t:257:ARG:HD2	1:x:36:HIS:C	2.18	0.65
1:u:89:GLN:HB3	1:u:90:ASP:HA	1.79	0.65
1:w:89:GLN:HB3	1:w:90:ASP:HA	1.78	0.65
1:w:342:TYR:CE1	1:w:347:PRO:HG3	2.32	0.65
1:z:109:TRP:CE3	1:z:485:LYS:HB2	2.32	0.65
1:7:255:LEU:O	1:7:256:LEU:HD23	1.97	0.65
1:7:357:GLN:HB3	1:7:362:SER:HB3	1.78	0.65
1:A:109:TRP:CE3	1:A:485:LYS:HB2	2.32	0.65
1:B:107:THR:HG21	1:B:209:TYR:HD2	1.61	0.65
1:C:342:TYR:CE1	1:C:347:PRO:HG3	2.32	0.65
1:D:107:THR:HG21	1:D:209:TYR:HD2	1.61	0.65
1:D:246:PRO:CG	1:P:528:TRP:CB	2.65	0.65
1:E:342:TYR:CE1	1:E:347:PRO:HG3	2.32	0.65
1:H:36:HIS:CE1	1:I:33:GLY:C	2.45	0.65
1:H:96:THR:HG21	1:H:221:ILE:HG12	1.77	0.65
1:I:93:GLY:C	1:I:96:THR:HG23	2.20	0.65
1:I:255:LEU:O	1:I:256:LEU:HD23	1.97	0.65
1:K:89:GLN:HB3	1:K:90:ASP:HA	1.79	0.65
1:P:173:LEU:HB2	1:P:487:ALA:HB3	1.79	0.65
1:Q:96:THR:HG21	1:Q:221:ILE:HG12	1.77	0.65
1:Q:107:THR:HG21	1:Q:209:TYR:HD2	1.61	0.65
1:Q:173:LEU:HB2	1:Q:487:ALA:HB3	1.79	0.65
1:R:255:LEU:O	1:R:256:LEU:HD23	1.97	0.65
1:S:109:TRP:CE3	1:S:485:LYS:HB2	2.32	0.65
1:S:150:ILE:HD11	1:S:174:LEU:HB2	1.78	0.65
1:V:342:TYR:CE1	1:V:347:PRO:HG3	2.32	0.65
1:X:54:VAL:HB	1:X:520:ALA:HB3	1.77	0.65
1:X:342:TYR:CE1	1:X:347:PRO:HG3	2.32	0.65
1:Z:337:GLU:HB2	1:Z:338:TRP:HA	1.78	0.65
1:1:93:GLY:C	1:1:96:THR:HG23	2.20	0.65
1:2:109:TRP:CE3	1:2:485:LYS:HB2	2.32	0.65
1:3:49:TYR:HB3	1:h:49:TYR:HB3	1.78	0.65
1:3:173:LEU:HB2	1:3:487:ALA:HB3	1.79	0.65
1:4:255:LEU:O	1:4:256:LEU:HD23	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:96:THR:HG21	1:5:221:ILE:HG12	1.77	0.65
1:5:357:GLN:HB3	1:5:362:SER:HB3	1.78	0.65
1:a:337:GLU:HB2	1:a:338:TRP:HA	1.78	0.65
1:c:49:TYR:HB3	1:f:49:TYR:HB3	1.78	0.65
1:d:109:TRP:CE3	1:d:485:LYS:HB2	2.32	0.65
1:f:342:TYR:CE1	1:f:347:PRO:HG3	2.32	0.65
1:g:342:TYR:CE1	1:g:347:PRO:HG3	2.32	0.65
1:j:173:LEU:HB2	1:j:487:ALA:HB3	1.79	0.65
1:k:150:ILE:HD11	1:k:174:LEU:HB2	1.78	0.65
1:l:255:LEU:O	1:l:256:LEU:HD23	1.97	0.65
1:o:282:SER:HB3	1:o:403:GLY:HA2	1.77	0.65
1:p:342:TYR:CE1	1:p:347:PRO:HG3	2.32	0.65
1:q:107:THR:HG21	1:q:209:TYR:HD2	1.61	0.65
1:r:284:ARG:NH2	1:s:100:SER:HA	2.12	0.65
1:s:337:GLU:HB2	1:s:338:TRP:HA	1.78	0.65
1:s:357:GLN:HB3	1:s:362:SER:HB3	1.78	0.65
1:t:255:LEU:O	1:t:256:LEU:HD23	1.97	0.65
1:t:257:ARG:HD3	1:x:36:HIS:C	2.21	0.65
1:t:337:GLU:HB2	1:t:338:TRP:HA	1.78	0.65
1:x:357:GLN:HB3	1:x:362:SER:HB3	1.78	0.65
1:y:173:LEU:HB2	1:y:487:ALA:HB3	1.79	0.65
1:y:255:LEU:O	1:y:256:LEU:HD23	1.97	0.65
1:y:316:ARG:HH22	1:z:98:ASN:CB	1.92	0.65
1:z:107:THR:HG21	1:z:209:TYR:HD2	1.61	0.65
1:z:150:ILE:HD11	1:z:174:LEU:HB2	1.78	0.65
1:A:89:GLN:HB3	1:A:90:ASP:HA	1.79	0.65
1:B:337:GLU:HB2	1:B:338:TRP:HA	1.78	0.65
1:F:255:LEU:O	1:F:256:LEU:HD23	1.97	0.65
1:F:282:SER:HB3	1:F:403:GLY:HA2	1.77	0.65
1:F:339:GLN:HE22	1:Q:435:THR:HG21	1.60	0.65
1:H:36:HIS:C	1:I:257:ARG:HD2	2.18	0.65
1:H:257:ARG:HD2	1:Z:36:HIS:C	2.18	0.65
1:H:357:GLN:HB3	1:H:362:SER:HB3	1.78	0.65
1:J:96:THR:HG21	1:J:221:ILE:HG12	1.77	0.65
1:J:357:GLN:HB3	1:J:362:SER:HB3	1.78	0.65
1:K:98:ASN:CB	1:7:316:ARG:HH22	1.92	0.65
1:L:173:LEU:HB2	1:L:487:ALA:HB3	1.79	0.65
1:M:109:TRP:CE3	1:M:485:LYS:HB2	2.32	0.65
1:O:89:GLN:HB3	1:O:90:ASP:HA	1.78	0.65
1:O:93:GLY:C	1:O:96:THR:HG23	2.20	0.65
1:O:150:ILE:HD11	1:O:174:LEU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:316:ARG:HH22	1:S:98:ASN:CB	1.92	0.65
1:T:54:VAL:HB	1:T:520:ALA:HB3	1.77	0.65
1:V:97:ILE:HG21	1:V:340:ILE:HD12	1.77	0.65
1:V:255:LEU:O	1:V:256:LEU:HD23	1.97	0.65
1:0:342:TYR:CE1	1:0:347:PRO:HG3	2.32	0.65
1:4:282:SER:HB3	1:4:403:GLY:HA2	1.77	0.65
1:c:183:LEU:O	1:e:526:ARG:NH1	2.26	0.65
1:d:284:ARG:NH2	1:e:100:SER:HA	2.12	0.65
1:g:255:LEU:O	1:g:256:LEU:HD23	1.97	0.65
1:h:68:MET:HA	1:h:69:SER:HB3	1.77	0.65
1:h:257:ARG:HD3	1:l:36:HIS:C	2.20	0.65
1:k:357:GLN:HB3	1:k:362:SER:HB3	1.78	0.65
1:l:337:GLU:HB2	1:l:338:TRP:HA	1.78	0.65
1:l:534:PRO:HG3	1:l:562:ALA:HB1	1.77	0.65
1:n:68:MET:HA	1:n:69:SER:HB3	1.77	0.65
1:n:173:LEU:HB2	1:n:487:ALA:HB3	1.79	0.65
1:q:109:TRP:CE3	1:q:485:LYS:HB2	2.32	0.65
1:q:534:PRO:HG3	1:q:562:ALA:HB1	1.77	0.65
1:r:109:TRP:CE3	1:r:485:LYS:HB2	2.32	0.65
1:t:93:GLY:C	1:t:96:THR:HG23	2.20	0.65
1:u:109:TRP:CE3	1:u:485:LYS:HB2	2.32	0.65
1:v:49:TYR:HB3	1:x:49:TYR:HB3	1.78	0.65
1:w:36:HIS:C	1:7:257:ARG:HD3	2.20	0.65
1:x:96:THR:HG21	1:x:221:ILE:HG12	1.77	0.65
1:7:97:ILE:HG21	1:7:340:ILE:HD12	1.77	0.65
1:D:109:TRP:CE3	1:D:485:LYS:HB2	2.32	0.65
1:E:337:GLU:HB2	1:E:338:TRP:HA	1.78	0.65
1:I:282:SER:HB3	1:I:403:GLY:HA2	1.77	0.65
1:I:337:GLU:HB2	1:I:338:TRP:HA	1.78	0.65
1:K:255:LEU:O	1:K:256:LEU:HD23	1.97	0.65
1:K:282:SER:HB3	1:K:403:GLY:HA2	1.77	0.65
1:N:109:TRP:CE3	1:N:485:LYS:HB2	2.32	0.65
1:O:36:HIS:C	1:P:257:ARG:HD2	2.18	0.65
1:O:357:GLN:HB3	1:O:362:SER:HB3	1.78	0.65
1:P:96:THR:HG21	1:P:221:ILE:HG12	1.77	0.65
1:P:357:GLN:HB3	1:P:362:SER:HB3	1.78	0.65
1:Q:49:TYR:HB3	1:R:49:TYR:HB3	1.78	0.65
1:Q:68:MET:HA	1:Q:69:SER:HB3	1.77	0.65
1:S:107:THR:HG21	1:S:209:TYR:HD2	1.61	0.65
1:S:342:TYR:CE1	1:S:347:PRO:HG3	2.32	0.65
1:W:89:GLN:HB3	1:W:90:ASP:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:109:TRP:CE3	1:W:485:LYS:HB2	2.32	0.65
1:1:342:TYR:CE1	1:1:347:PRO:HG3	2.32	0.65
1:2:257:ARG:HD3	1:m:36:HIS:C	2.21	0.65
1:2:337:GLU:HB2	1:2:338:TRP:HA	1.78	0.65
1:a:89:GLN:HB3	1:a:90:ASP:HA	1.79	0.65
1:c:93:GLY:C	1:c:96:THR:HG23	2.20	0.65
1:c:342:TYR:CE1	1:c:347:PRO:HG3	2.32	0.65
1:h:337:GLU:HB2	1:h:338:TRP:HA	1.78	0.65
1:k:89:GLN:HB3	1:k:90:ASP:HA	1.79	0.65
1:n:49:TYR:HB3	1:y:49:TYR:HB3	1.78	0.65
1:n:435:THR:HG21	1:o:339:GLN:HE22	1.60	0.65
1:o:255:LEU:O	1:o:256:LEU:HD23	1.97	0.65
1:s:96:THR:HG21	1:s:221:ILE:HG12	1.77	0.65
1:s:173:LEU:HB2	1:s:487:ALA:HB3	1.79	0.65
1:v:337:GLU:CB	1:v:338:TRP:HA	2.28	0.65
1:7:342:TYR:CE1	1:7:347:PRO:HG3	2.32	0.65
1:B:89:GLN:HB3	1:B:90:ASP:HA	1.79	0.64
1:D:150:ILE:HD11	1:D:174:LEU:HB2	1.78	0.64
1:G:49:TYR:HB3	1:H:49:TYR:HB3	1.78	0.64
1:G:337:GLU:CB	1:G:338:TRP:HA	2.28	0.64
1:I:68:MET:HA	1:I:69:SER:HB3	1.77	0.64
1:N:337:GLU:CB	1:N:338:TRP:HA	2.27	0.64
1:O:109:TRP:CE3	1:O:485:LYS:HB2	2.32	0.64
1:O:342:TYR:CE1	1:O:347:PRO:HG3	2.32	0.64
1:P:255:LEU:O	1:P:256:LEU:HD23	1.97	0.64
1:Q:342:TYR:CE1	1:Q:347:PRO:HG3	2.32	0.64
1:T:357:GLN:HB3	1:T:362:SER:HB3	1.78	0.64
1:V:257:ARG:HD3	1:W:36:HIS:C	2.20	0.64
1:V:316:ARG:HH22	1:4:98:ASN:CB	1.92	0.64
1:W:284:ARG:NH2	1:Y:100:SER:HA	2.12	0.64
1:X:109:TRP:CE3	1:X:485:LYS:HB2	2.32	0.64
1:X:337:GLU:CB	1:X:338:TRP:HA	2.27	0.64
1:Z:100:SER:HA	1:w:284:ARG:NH2	2.12	0.64
1:0:109:TRP:CE3	1:0:485:LYS:HB2	2.32	0.64
1:0:150:ILE:HD11	1:0:174:LEU:HB2	1.78	0.64
1:1:337:GLU:CB	1:1:338:TRP:HA	2.27	0.64
1:a:257:ARG:HD3	1:e:36:HIS:C	2.21	0.64
1:f:109:TRP:CE3	1:f:485:LYS:HB2	2.32	0.64
1:h:89:GLN:HB3	1:h:90:ASP:HA	1.79	0.64
1:h:337:GLU:CB	1:h:338:TRP:HA	2.27	0.64
1:i:357:GLN:HB3	1:i:362:SER:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:342:TYR:CE1	1:k:347:PRO:HG3	2.32	0.64
1:l:54:VAL:HB	1:l:520:ALA:HB3	1.77	0.64
1:m:109:TRP:CE3	1:m:485:LYS:HB2	2.32	0.64
1:m:282:SER:HB3	1:m:403:GLY:HA2	1.77	0.64
1:m:337:GLU:CB	1:m:338:TRP:HA	2.28	0.64
1:m:337:GLU:HB2	1:m:338:TRP:HA	1.78	0.64
1:n:337:GLU:CB	1:n:338:TRP:HA	2.27	0.64
1:q:150:ILE:HD11	1:q:174:LEU:HB2	1.78	0.64
1:t:68:MET:HA	1:t:69:SER:HB3	1.77	0.64
1:t:150:ILE:HD11	1:t:174:LEU:HB2	1.78	0.64
1:u:284:ARG:NH2	1:v:100:SER:HA	2.12	0.64
1:w:337:GLU:HB2	1:w:338:TRP:HA	1.78	0.64
1:C:100:SER:HA	1:M:284:ARG:NH2	2.13	0.64
1:C:257:ARG:HD3	1:D:36:HIS:C	2.21	0.64
1:C:526:ARG:NH1	1:1:183:LEU:O	2.26	0.64
1:K:342:TYR:CE1	1:K:347:PRO:HG3	2.32	0.64
1:N:342:TYR:CE1	1:N:347:PRO:HG3	2.32	0.64
1:P:337:GLU:HB2	1:P:338:TRP:HA	1.78	0.64
1:R:93:GLY:C	1:R:96:THR:HG23	2.20	0.64
1:U:49:TYR:HB3	1:V:49:TYR:HB3	1.78	0.64
1:X:150:ILE:HD11	1:X:174:LEU:HB2	1.78	0.64
1:2:337:GLU:CB	1:2:338:TRP:HA	2.27	0.64
1:a:471:ALA:HB2	1:b:328:ASN:ND2	2.11	0.64
1:c:337:GLU:CB	1:c:338:TRP:HA	2.27	0.64
1:e:247:LEU:O	1:e:248:GLU:CB	2.42	0.64
1:f:257:ARG:HD3	1:h:36:HIS:C	2.21	0.64
1:f:337:GLU:CB	1:f:338:TRP:HA	2.27	0.64
1:f:337:GLU:HB2	1:f:338:TRP:HA	1.78	0.64
1:h:109:TRP:CE3	1:h:485:LYS:HB2	2.32	0.64
1:h:282:SER:HB3	1:h:403:GLY:HA2	1.77	0.64
1:h:342:TYR:CE1	1:h:347:PRO:HG3	2.32	0.64
1:i:36:HIS:C	1:6:257:ARG:HD2	2.18	0.64
1:k:49:TYR:HB3	1:r:49:TYR:HB3	1.78	0.64
1:k:109:TRP:CE3	1:k:485:LYS:HB2	2.32	0.64
1:k:255:LEU:O	1:k:256:LEU:HD23	1.97	0.64
1:m:89:GLN:HB3	1:m:90:ASP:HA	1.79	0.64
1:m:342:TYR:CE1	1:m:347:PRO:HG3	2.32	0.64
1:n:342:TYR:CE1	1:n:347:PRO:HG3	2.32	0.64
1:q:68:MET:HA	1:q:69:SER:HB3	1.77	0.64
1:r:342:TYR:CE1	1:r:347:PRO:HG3	2.32	0.64
1:s:255:LEU:O	1:s:256:LEU:HD23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:282:SER:HB3	1:t:403:GLY:HA2	1.77	0.64
1:w:109:TRP:CE3	1:w:485:LYS:HB2	2.32	0.64
1:w:534:PRO:HG3	1:w:562:ALA:HB1	1.77	0.64
1:z:342:TYR:CE1	1:z:347:PRO:HG3	2.32	0.64
1:6:49:TYR:HB3	1:7:49:TYR:HB3	1.78	0.64
1:E:284:ARG:NH2	1:Q:100:SER:HA	2.12	0.64
1:I:150:ILE:HD11	1:I:174:LEU:HB2	1.78	0.64
1:J:284:ARG:NH2	1:L:100:SER:HA	2.12	0.64
1:K:109:TRP:CE3	1:K:485:LYS:HB2	2.32	0.64
1:K:337:GLU:CB	1:K:338:TRP:HA	2.28	0.64
1:N:89:GLN:HB3	1:N:90:ASP:HA	1.78	0.64
1:O:173:LEU:HB2	1:O:487:ALA:HB3	1.79	0.64
1:O:255:LEU:O	1:O:256:LEU:HD23	1.97	0.64
1:O:337:GLU:CB	1:O:338:TRP:HA	2.28	0.64
1:Q:337:GLU:CB	1:Q:338:TRP:HA	2.27	0.64
1:T:36:HIS:C	1:U:257:ARG:HD2	2.18	0.64
1:U:36:HIS:CE1	1:4:33:GLY:C	2.44	0.64
1:W:68:MET:HA	1:W:69:SER:HB3	1.77	0.64
1:W:534:PRO:HG3	1:W:562:ALA:HB1	1.77	0.64
1:Y:255:LEU:O	1:Y:256:LEU:HD23	1.97	0.64
1:Y:337:GLU:CB	1:Y:338:TRP:HA	2.27	0.64
1:0:337:GLU:CB	1:0:338:TRP:HA	2.27	0.64
1:4:109:TRP:CE3	1:4:485:LYS:HB2	2.32	0.64
1:4:165:GLN:HE21	1:b:156:THR:HG21	1.61	0.64
1:4:337:GLU:CB	1:4:338:TRP:HA	2.27	0.64
1:4:342:TYR:CE1	1:4:347:PRO:HG3	2.32	0.64
1:a:100:SER:HA	1:b:284:ARG:NH2	2.11	0.64
1:e:257:ARG:HD3	1:q:36:HIS:C	2.21	0.64
1:g:36:HIS:C	1:m:257:ARG:HD3	2.20	0.64
1:j:49:TYR:HB3	1:m:49:TYR:HB3	1.78	0.64
1:k:337:GLU:CB	1:k:338:TRP:HA	2.28	0.64
1:m:68:MET:HA	1:m:69:SER:HB3	1.77	0.64
1:o:109:TRP:CE3	1:o:485:LYS:HB2	2.32	0.64
1:o:342:TYR:CE1	1:o:347:PRO:HG3	2.32	0.64
1:r:337:GLU:CB	1:r:338:TRP:HA	2.28	0.64
1:s:342:TYR:CE1	1:s:347:PRO:HG3	2.32	0.64
1:u:93:GLY:C	1:u:96:THR:HG23	2.20	0.64
1:u:150:ILE:HD11	1:u:174:LEU:HB2	1.78	0.64
1:v:173:LEU:HB2	1:v:487:ALA:HB3	1.79	0.64
1:x:107:THR:HG21	1:x:209:TYR:HD2	1.61	0.64
1:y:93:GLY:C	1:y:96:THR:HG23	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:173:LEU:HB2	1:6:487:ALA:HB3	1.79	0.64
1:A:342:TYR:CE1	1:A:347:PRO:HG3	2.32	0.64
1:B:49:TYR:HB3	1:I:49:TYR:HB3	1.78	0.64
1:B:255:LEU:O	1:B:256:LEU:HD23	1.97	0.64
1:B:284:ARG:NH2	1:J:100:SER:HA	2.12	0.64
1:C:247:LEU:O	1:C:248:GLU:CB	2.42	0.64
1:C:255:LEU:O	1:C:256:LEU:HD23	1.97	0.64
1:C:337:GLU:CB	1:C:338:TRP:HA	2.27	0.64
1:D:68:MET:HA	1:D:69:SER:HB3	1.77	0.64
1:F:109:TRP:CE3	1:F:485:LYS:HB2	2.32	0.64
1:F:342:TYR:CE1	1:F:347:PRO:HG3	2.32	0.64
1:G:109:TRP:CE3	1:G:485:LYS:HB2	2.32	0.64
1:G:173:LEU:HB2	1:G:487:ALA:HB3	1.79	0.64
1:P:342:TYR:CE1	1:P:347:PRO:HG3	2.32	0.64
1:R:337:GLU:CB	1:R:338:TRP:HA	2.28	0.64
1:U:150:ILE:HD11	1:U:174:LEU:HB2	1.78	0.64
1:W:337:GLU:HB2	1:W:338:TRP:HA	1.78	0.64
1:W:337:GLU:CB	1:W:338:TRP:HA	2.28	0.64
1:X:34:VAL:HG22	1:5:36:HIS:CD2	2.33	0.64
1:1:255:LEU:O	1:1:256:LEU:HD23	1.97	0.64
1:a:255:LEU:O	1:a:256:LEU:HD23	1.97	0.64
1:c:255:LEU:O	1:c:256:LEU:HD23	1.97	0.64
1:d:37:SER:HG	1:r:257:ARG:CG	1.93	0.64
1:h:173:LEU:HB2	1:h:487:ALA:HB3	1.79	0.64
1:j:342:TYR:CE1	1:j:347:PRO:HG3	2.32	0.64
1:m:173:LEU:HB2	1:m:487:ALA:HB3	1.79	0.64
1:n:100:SER:HA	1:p:284:ARG:NH2	2.12	0.64
1:r:89:GLN:HB3	1:r:90:ASP:HA	1.79	0.64
1:u:247:LEU:O	1:u:248:GLU:CB	2.42	0.64
1:u:342:TYR:CE1	1:u:347:PRO:HG3	2.32	0.64
1:v:109:TRP:CE3	1:v:485:LYS:HB2	2.32	0.64
1:w:255:LEU:O	1:w:256:LEU:HD23	1.97	0.64
1:w:337:GLU:CB	1:w:338:TRP:HA	2.27	0.64
1:x:109:TRP:CE3	1:x:485:LYS:HB2	2.32	0.64
1:7:337:GLU:CB	1:7:338:TRP:HA	2.27	0.64
1:A:93:GLY:C	1:A:96:THR:HG23	2.20	0.64
1:A:150:ILE:HD11	1:A:174:LEU:HB2	1.78	0.64
1:A:247:LEU:O	1:A:248:GLU:CB	2.42	0.64
1:B:100:SER:HA	1:L:284:ARG:NH2	2.12	0.64
1:B:342:TYR:CE1	1:B:347:PRO:HG3	2.32	0.64
1:G:107:THR:HG21	1:G:209:TYR:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:284:ARG:NH2	1:I:100:SER:HA	2.12	0.64
1:H:109:TRP:CE3	1:H:485:LYS:HB2	2.32	0.64
1:I:173:LEU:HB2	1:I:487:ALA:HB3	1.79	0.64
1:P:150:ILE:HD11	1:P:174:LEU:HB2	1.78	0.64
1:U:173:LEU:HB2	1:U:487:ALA:HB3	1.79	0.64
1:V:337:GLU:CB	1:V:338:TRP:HA	2.28	0.64
1:W:255:LEU:O	1:W:256:LEU:HD23	1.97	0.64
1:Z:255:LEU:O	1:Z:256:LEU:HD23	1.97	0.64
1:Z:337:GLU:CB	1:Z:338:TRP:HA	2.28	0.64
1:3:284:ARG:NH2	1:f:100:SER:HA	2.12	0.64
1:4:49:TYR:HB3	1:5:49:TYR:HB3	1.79	0.64
1:5:100:SER:HA	1:a:284:ARG:NH2	2.13	0.64
1:e:255:LEU:O	1:e:256:LEU:HD23	1.97	0.64
1:e:337:GLU:CB	1:e:338:TRP:HA	2.28	0.64
1:k:37:SER:HG	1:s:257:ARG:CG	1.92	0.64
1:k:173:LEU:HB2	1:k:487:ALA:HB3	1.79	0.64
1:o:93:GLY:C	1:o:96:THR:HG23	2.20	0.64
1:q:342:TYR:CE1	1:q:347:PRO:HG3	2.32	0.64
1:s:150:ILE:HD11	1:s:174:LEU:HB2	1.78	0.64
1:u:173:LEU:HB2	1:u:487:ALA:HB3	1.79	0.64
1:v:150:ILE:HD11	1:v:174:LEU:HB2	1.78	0.64
1:y:337:GLU:CB	1:y:338:TRP:HA	2.28	0.64
1:7:173:LEU:HB2	1:7:487:ALA:HB3	1.79	0.64
1:A:173:LEU:HB2	1:A:487:ALA:HB3	1.79	0.64
1:C:33:GLY:C	1:D:36:HIS:CE1	2.45	0.64
1:C:49:TYR:HB3	1:L:49:TYR:HB3	1.78	0.64
1:D:141:PHE:HD1	1:D:516:MET:SD	2.21	0.64
1:D:342:TYR:CE1	1:D:347:PRO:HG3	2.32	0.64
1:E:150:ILE:HD11	1:E:174:LEU:HB2	1.78	0.64
1:F:93:GLY:C	1:F:96:THR:HG23	2.20	0.64
1:H:107:THR:HG21	1:H:209:TYR:HD2	1.61	0.64
1:K:173:LEU:HB2	1:K:487:ALA:HB3	1.79	0.64
1:N:49:TYR:HB3	1:O:49:TYR:HB3	1.78	0.64
1:R:284:ARG:NH2	1:S:100:SER:HA	2.12	0.64
1:R:342:TYR:CE1	1:R:347:PRO:HG3	2.32	0.64
1:T:255:LEU:O	1:T:256:LEU:HD23	1.97	0.64
1:T:337:GLU:CB	1:T:338:TRP:HA	2.27	0.64
1:V:109:TRP:CE3	1:V:485:LYS:HB2	2.32	0.64
1:V:284:ARG:NH2	1:4:100:SER:HA	2.12	0.64
1:2:150:ILE:HD11	1:2:174:LEU:HB2	1.78	0.64
1:3:342:TYR:CE1	1:3:347:PRO:HG3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:173:LEU:HB2	1:4:487:ALA:HB3	1.79	0.64
1:4:337:GLU:HB2	1:4:338:TRP:HA	1.78	0.64
1:5:337:GLU:CB	1:5:338:TRP:HA	2.27	0.64
1:5:527:GLN:NE2	1:b:243:GLN:HG2	2.13	0.64
1:a:257:ARG:HD2	1:e:36:HIS:C	2.19	0.64
1:a:342:TYR:CE1	1:a:347:PRO:HG3	2.32	0.64
1:c:435:THR:HG21	1:d:339:GLN:HE22	1.60	0.64
1:f:141:PHE:HD1	1:f:516:MET:SD	2.21	0.64
1:i:255:LEU:O	1:i:256:LEU:HD23	1.97	0.64
1:i:337:GLU:CB	1:i:338:TRP:HA	2.28	0.64
1:j:36:HIS:CE1	1:k:33:GLY:C	2.44	0.64
1:l:33:GLY:C	1:r:36:HIS:CE1	2.45	0.64
1:n:150:ILE:HD11	1:n:174:LEU:HB2	1.78	0.64
1:w:68:MET:HA	1:w:69:SER:HB3	1.77	0.64
1:x:150:ILE:HD11	1:x:174:LEU:HB2	1.78	0.64
1:y:109:TRP:CE3	1:y:485:LYS:HB2	2.32	0.64
1:7:109:TRP:CE3	1:7:485:LYS:HB2	2.32	0.64
1:E:255:LEU:O	1:E:256:LEU:HD23	1.97	0.64
1:G:150:ILE:HD11	1:G:174:LEU:HB2	1.78	0.64
1:H:150:ILE:HD11	1:H:174:LEU:HB2	1.78	0.64
1:I:109:TRP:CE3	1:I:485:LYS:HB2	2.32	0.64
1:I:357:GLN:HB3	1:I:362:SER:HB3	1.78	0.64
1:K:100:SER:HA	1:7:284:ARG:NH2	2.12	0.64
1:M:37:SER:H	1:N:257:ARG:HG3	1.63	0.64
1:M:173:LEU:HB2	1:M:487:ALA:HB3	1.79	0.64
1:O:100:SER:HA	1:h:284:ARG:NH2	2.12	0.64
1:R:109:TRP:CE3	1:R:485:LYS:HB2	2.32	0.64
1:T:284:ARG:NH2	1:3:100:SER:HA	2.12	0.64
1:T:342:TYR:CE1	1:T:347:PRO:HG3	2.32	0.64
1:V:173:LEU:HB2	1:V:487:ALA:HB3	1.79	0.64
1:2:100:SER:HA	1:j:284:ARG:NH2	2.12	0.64
1:2:107:THR:HG21	1:2:209:TYR:HD2	1.61	0.64
1:2:141:PHE:HD1	1:2:516:MET:SD	2.21	0.64
1:3:141:PHE:HD1	1:3:516:MET:SD	2.21	0.64
1:a:49:TYR:HB3	1:t:49:TYR:HB3	1.79	0.64
1:b:89:GLN:HB3	1:b:90:ASP:HA	1.79	0.64
1:c:357:GLN:HB3	1:c:362:SER:HB3	1.78	0.64
1:d:141:PHE:HD1	1:d:516:MET:SD	2.21	0.64
1:d:173:LEU:HB2	1:d:487:ALA:HB3	1.79	0.64
1:f:150:ILE:HD11	1:f:174:LEU:HB2	1.78	0.64
1:i:337:GLU:HB2	1:i:338:TRP:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:141:PHE:HD1	1:j:516:MET:SD	2.21	0.64
1:k:98:ASN:HA	1:m:323:SER:HG	1.63	0.64
1:k:100:SER:HA	1:m:284:ARG:NH2	2.13	0.64
1:o:141:PHE:HD1	1:o:516:MET:SD	2.21	0.64
1:q:141:PHE:HD1	1:q:516:MET:SD	2.21	0.64
1:r:173:LEU:HB2	1:r:487:ALA:HB3	1.79	0.64
1:t:100:SER:HA	1:v:284:ARG:NH2	2.12	0.64
1:t:173:LEU:HB2	1:t:487:ALA:HB3	1.79	0.64
1:v:107:THR:HG21	1:v:209:TYR:HD2	1.61	0.64
1:y:284:ARG:NH2	1:z:100:SER:HA	2.12	0.64
1:6:150:ILE:HD11	1:6:174:LEU:HB2	1.78	0.64
1:C:284:ARG:NH2	1:1:100:SER:HA	2.12	0.64
1:D:100:SER:HA	1:P:284:ARG:NH2	2.12	0.64
1:E:100:SER:HA	1:F:284:ARG:NH2	2.13	0.64
1:E:109:TRP:CE3	1:E:485:LYS:HB2	2.32	0.64
1:J:255:LEU:O	1:J:256:LEU:HD23	1.97	0.64
1:J:337:GLU:CB	1:J:338:TRP:HA	2.27	0.64
1:K:337:GLU:HB2	1:K:338:TRP:HA	1.78	0.64
1:L:89:GLN:HB3	1:L:90:ASP:HA	1.79	0.64
1:L:114:ALA:HB1	1:L:120:TRP:HE1	1.63	0.64
1:N:114:ALA:HB1	1:N:120:TRP:HE1	1.63	0.64
1:N:173:LEU:HB2	1:N:487:ALA:HB3	1.79	0.64
1:P:141:PHE:HD1	1:P:516:MET:SD	2.21	0.64
1:T:98:ASN:CB	1:f:316:ARG:HH22	1.92	0.64
1:T:337:GLU:HB2	1:T:338:TRP:HA	1.78	0.64
1:1:357:GLN:HB3	1:1:362:SER:HB3	1.78	0.64
1:2:257:ARG:HD2	1:m:36:HIS:C	2.18	0.64
1:f:107:THR:HG21	1:f:209:TYR:HD2	1.61	0.64
1:i:284:ARG:NH2	1:j:100:SER:HA	2.12	0.64
1:i:342:TYR:CE1	1:i:347:PRO:HG3	2.32	0.64
1:j:89:GLN:HB3	1:j:90:ASP:HA	1.79	0.64
1:o:284:ARG:NH2	1:p:100:SER:HA	2.12	0.64
1:p:150:ILE:HD11	1:p:174:LEU:HB2	1.78	0.64
1:p:255:LEU:O	1:p:256:LEU:HD23	1.97	0.64
1:t:109:TRP:CE3	1:t:485:LYS:HB2	2.32	0.64
1:t:284:ARG:NH2	1:u:100:SER:HA	2.12	0.64
1:t:357:GLN:HB3	1:t:362:SER:HB3	1.78	0.64
1:y:342:TYR:CE1	1:y:347:PRO:HG3	2.32	0.64
1:y:357:GLN:HB3	1:y:362:SER:HB3	1.78	0.64
1:6:337:GLU:HB2	1:6:338:TRP:HA	1.78	0.64
1:A:34:VAL:HG22	1:B:36:HIS:CD2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:114:ALA:HB1	1:B:120:TRP:HE1	1.63	0.64
1:F:141:PHE:HD1	1:F:516:MET:SD	2.21	0.64
1:L:93:GLY:C	1:L:96:THR:HG23	2.20	0.64
1:M:141:PHE:HD1	1:M:516:MET:SD	2.21	0.64
1:Q:150:ILE:HD11	1:Q:174:LEU:HB2	1.78	0.64
1:X:255:LEU:O	1:X:256:LEU:HD23	1.97	0.64
1:Y:342:TYR:CE1	1:Y:347:PRO:HG3	2.32	0.64
1:2:89:GLN:HB3	1:2:90:ASP:HA	1.79	0.64
1:3:114:ALA:HB1	1:3:120:TRP:HE1	1.63	0.64
1:3:150:ILE:HD11	1:3:174:LEU:HB2	1.78	0.64
1:a:114:ALA:HB1	1:a:120:TRP:HE1	1.63	0.64
1:a:257:ARG:HG3	1:e:37:SER:H	1.63	0.64
1:b:114:ALA:HB1	1:b:120:TRP:HE1	1.63	0.64
1:c:100:SER:HA	1:e:284:ARG:NH2	2.13	0.64
1:d:357:GLN:HB3	1:d:362:SER:HB3	1.78	0.64
1:g:337:GLU:CB	1:g:338:TRP:HA	2.27	0.64
1:j:150:ILE:HD11	1:j:174:LEU:HB2	1.78	0.64
1:n:284:ARG:NH2	1:o:100:SER:HA	2.12	0.64
1:q:100:SER:HA	1:s:284:ARG:NH2	2.12	0.64
1:q:284:ARG:NH2	1:r:100:SER:HA	2.12	0.64
1:s:141:PHE:HD1	1:s:516:MET:SD	2.21	0.64
1:v:89:GLN:HB3	1:v:90:ASP:HA	1.79	0.64
1:6:141:PHE:HD1	1:6:516:MET:SD	2.21	0.64
1:A:357:GLN:HB3	1:A:362:SER:HB3	1.78	0.64
1:B:257:ARG:HG3	1:C:37:SER:H	1.63	0.64
1:D:284:ARG:NH2	1:N:100:SER:HA	2.12	0.64
1:E:173:LEU:HB2	1:E:487:ALA:HB3	1.79	0.64
1:E:357:GLN:HB3	1:E:362:SER:HB3	1.78	0.64
1:F:89:GLN:HB3	1:F:90:ASP:HA	1.79	0.64
1:G:37:SER:H	1:W:257:ARG:HG3	1.63	0.64
1:G:141:PHE:HD1	1:G:516:MET:SD	2.21	0.64
1:K:33:GLY:C	1:6:36:HIS:CE1	2.44	0.64
1:L:141:PHE:HD1	1:L:516:MET:SD	2.21	0.64
1:L:337:GLU:HB2	1:L:338:TRP:HA	1.78	0.64
1:M:357:GLN:HB3	1:M:362:SER:HB3	1.78	0.64
1:R:357:GLN:HB3	1:R:362:SER:HB3	1.78	0.64
1:U:141:PHE:HD1	1:U:516:MET:SD	2.21	0.64
1:U:337:GLU:HB2	1:U:338:TRP:HA	1.78	0.64
1:U:337:GLU:CB	1:U:338:TRP:HA	2.27	0.64
1:Z:342:TYR:CE1	1:Z:347:PRO:HG3	2.32	0.64
1:0:255:LEU:O	1:0:256:LEU:HD23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:284:ARG:NH2	1:7:100:SER:HA	2.12	0.64
1:1:114:ALA:HB1	1:1:120:TRP:HE1	1.63	0.64
1:3:89:GLN:HB3	1:3:90:ASP:HA	1.79	0.64
1:4:36:HIS:CE1	1:b:33:GLY:C	2.52	0.64
1:4:141:PHE:HD1	1:4:516:MET:SD	2.21	0.64
1:5:255:LEU:O	1:5:256:LEU:HD23	1.97	0.64
1:b:93:GLY:C	1:b:96:THR:HG23	2.20	0.64
1:b:337:GLU:HB2	1:b:338:TRP:HA	1.78	0.64
1:e:109:TRP:CE3	1:e:485:LYS:HB2	2.32	0.64
1:f:89:GLN:HB3	1:f:90:ASP:HA	1.79	0.64
1:i:89:GLN:HB3	1:i:90:ASP:HA	1.79	0.64
1:j:114:ALA:HB1	1:j:120:TRP:HE1	1.63	0.64
1:n:191:PHE:CE1	1:n:470:HIS:HE1	2.16	0.64
1:o:89:GLN:HB3	1:o:90:ASP:HA	1.79	0.64
1:p:109:TRP:CE3	1:p:485:LYS:HB2	2.32	0.64
1:p:357:GLN:HB3	1:p:362:SER:HB3	1.78	0.64
1:s:337:GLU:CB	1:s:338:TRP:HA	2.27	0.64
1:v:37:SER:H	1:w:257:ARG:HG3	1.63	0.64
1:v:141:PHE:HD1	1:v:516:MET:SD	2.21	0.64
1:x:342:TYR:CE1	1:x:347:PRO:HG3	2.32	0.64
1:y:107:THR:HG21	1:y:209:TYR:HD2	1.61	0.64
1:y:150:ILE:HD11	1:y:174:LEU:HB2	1.78	0.64
1:z:141:PHE:HD1	1:z:516:MET:SD	2.21	0.64
1:6:337:GLU:CB	1:6:338:TRP:HA	2.28	0.64
1:C:109:TRP:CE3	1:C:485:LYS:HB2	2.32	0.63
1:F:150:ILE:HD11	1:F:174:LEU:HB2	1.78	0.63
1:K:34:VAL:HG22	1:6:36:HIS:CD2	2.34	0.63
1:M:339:GLN:HE22	1:1:435:THR:HG21	1.60	0.63
1:S:141:PHE:HD1	1:S:516:MET:SD	2.21	0.63
1:T:89:GLN:HB3	1:T:90:ASP:HA	1.79	0.63
1:T:100:SER:HA	1:f:284:ARG:NH2	2.12	0.63
1:T:141:PHE:HD1	1:T:516:MET:SD	2.21	0.63
1:V:141:PHE:HD1	1:V:516:MET:SD	2.21	0.63
1:W:141:PHE:HD1	1:W:516:MET:SD	2.21	0.63
1:W:150:ILE:HD11	1:W:174:LEU:HB2	1.78	0.63
1:W:173:LEU:HB2	1:W:487:ALA:HB3	1.79	0.63
1:1:337:GLU:HB2	1:1:338:TRP:HA	1.78	0.63
1:2:284:ARG:NH2	1:i:100:SER:HA	2.12	0.63
1:4:93:GLY:C	1:4:96:THR:HG23	2.20	0.63
1:a:109:TRP:CE3	1:a:485:LYS:HB2	2.32	0.63
1:c:114:ALA:HB1	1:c:120:TRP:HE1	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:337:GLU:HB2	1:c:338:TRP:HA	1.78	0.63
1:d:37:SER:H	1:r:257:ARG:HG3	1.63	0.63
1:g:284:ARG:NH2	1:h:100:SER:HA	2.12	0.63
1:j:37:SER:H	1:k:257:ARG:HG3	1.63	0.63
1:j:337:GLU:CB	1:j:338:TRP:HA	2.27	0.63
1:l:284:ARG:NH2	1:m:100:SER:HA	2.12	0.63
1:l:337:GLU:CB	1:l:338:TRP:HA	2.28	0.63
1:o:150:ILE:HD11	1:o:174:LEU:HB2	1.78	0.63
1:p:173:LEU:HB2	1:p:487:ALA:HB3	1.79	0.63
1:r:114:ALA:HB1	1:r:120:TRP:HE1	1.63	0.63
1:v:357:GLN:HB3	1:v:362:SER:HB3	1.78	0.63
1:w:37:SER:H	1:7:257:ARG:HG3	1.63	0.63
1:w:114:ALA:HB1	1:w:120:TRP:HE1	1.63	0.63
1:w:141:PHE:HD1	1:w:516:MET:SD	2.21	0.63
1:z:284:ARG:NH2	1:6:100:SER:HA	2.12	0.63
1:7:93:GLY:C	1:7:96:THR:HG23	2.20	0.63
1:7:141:PHE:HD1	1:7:516:MET:SD	2.21	0.63
1:A:141:PHE:HD1	1:A:516:MET:SD	2.21	0.63
1:B:109:TRP:CE3	1:B:485:LYS:HB2	2.32	0.63
1:F:100:SER:HA	1:Q:284:ARG:NH2	2.12	0.63
1:G:89:GLN:HB3	1:G:90:ASP:HA	1.79	0.63
1:H:342:TYR:CE1	1:H:347:PRO:HG3	2.32	0.63
1:I:337:GLU:CB	1:I:338:TRP:HA	2.28	0.63
1:K:141:PHE:HD1	1:K:516:MET:SD	2.21	0.63
1:Q:114:ALA:HB1	1:Q:120:TRP:HE1	1.63	0.63
1:R:107:THR:HG21	1:R:209:TYR:HD2	1.61	0.63
1:S:191:PHE:CE1	1:S:470:HIS:HE1	2.16	0.63
1:S:316:ARG:HH22	1:U:98:ASN:CB	1.92	0.63
1:U:36:HIS:CD2	1:4:34:VAL:HG22	2.34	0.63
1:U:342:TYR:CE1	1:U:347:PRO:HG3	2.32	0.63
1:V:100:SER:HA	1:X:284:ARG:NH2	2.12	0.63
1:W:114:ALA:HB1	1:W:120:TRP:HE1	1.63	0.63
1:2:173:LEU:HB2	1:2:487:ALA:HB3	1.79	0.63
1:3:337:GLU:CB	1:3:338:TRP:HA	2.27	0.63
1:a:94:ARG:HH11	1:b:424:ALA:HA	1.63	0.63
1:b:141:PHE:HD1	1:b:516:MET:SD	2.21	0.63
1:g:89:GLN:HB3	1:g:90:ASP:HA	1.79	0.63
1:m:357:GLN:HB3	1:m:362:SER:HB3	1.78	0.63
1:n:114:ALA:HB1	1:n:120:TRP:HE1	1.63	0.63
1:u:357:GLN:HB3	1:u:362:SER:HB3	1.78	0.63
1:w:150:ILE:HD11	1:w:174:LEU:HB2	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:173:LEU:HB2	1:w:487:ALA:HB3	1.79	0.63
1:D:114:ALA:HB1	1:D:120:TRP:HE1	1.63	0.63
1:E:246:PRO:CG	1:F:528:TRP:CB	2.65	0.63
1:E:337:GLU:CB	1:E:338:TRP:HA	2.28	0.63
1:F:173:LEU:HB2	1:F:487:ALA:HB3	1.79	0.63
1:F:337:GLU:CB	1:F:338:TRP:HA	2.27	0.63
1:G:357:GLN:HB3	1:G:362:SER:HB3	1.78	0.63
1:K:93:GLY:C	1:K:96:THR:HG23	2.20	0.63
1:O:257:ARG:HG3	1:3:37:SER:H	1.64	0.63
1:P:337:GLU:CB	1:P:338:TRP:HA	2.28	0.63
1:Q:36:HIS:CE1	1:S:33:GLY:C	2.44	0.63
1:R:150:ILE:HD11	1:R:174:LEU:HB2	1.78	0.63
1:S:284:ARG:NH2	1:U:100:SER:HA	2.12	0.63
1:T:173:LEU:HB2	1:T:487:ALA:HB3	1.79	0.63
1:Z:284:ARG:NH2	1:x:100:SER:HA	2.12	0.63
1:2:255:LEU:O	1:2:256:LEU:HD23	1.97	0.63
1:2:316:ARG:HH22	1:i:98:ASN:CB	1.92	0.63
1:5:89:GLN:HB3	1:5:90:ASP:HA	1.79	0.63
1:5:360:TRP:HZ3	1:b:220:ASP:OD1	1.80	0.63
1:a:244:PHE:CE2	1:a:246:PRO:CB	2.76	0.63
1:c:173:LEU:HB2	1:c:487:ALA:HB3	1.79	0.63
1:d:257:ARG:HG3	1:f:37:SER:H	1.63	0.63
1:o:173:LEU:HB2	1:o:487:ALA:HB3	1.79	0.63
1:o:528:TRP:CB	1:p:246:PRO:CG	2.65	0.63
1:p:337:GLU:CB	1:p:338:TRP:HA	2.28	0.63
1:q:114:ALA:HB1	1:q:120:TRP:HE1	1.63	0.63
1:q:146:GLU:O	1:q:511:TRP:HB2	1.99	0.63
1:q:357:GLN:HB3	1:q:362:SER:HB3	1.78	0.63
1:t:337:GLU:CB	1:t:338:TRP:HA	2.27	0.63
1:t:342:TYR:CE1	1:t:347:PRO:HG3	2.32	0.63
1:u:141:PHE:HD1	1:u:516:MET:SD	2.21	0.63
1:x:173:LEU:HB2	1:x:487:ALA:HB3	1.79	0.63
1:y:89:GLN:HB3	1:y:90:ASP:HA	1.79	0.63
1:z:191:PHE:CE1	1:z:470:HIS:HE1	2.16	0.63
1:z:316:ARG:HH22	1:6:98:ASN:CB	1.92	0.63
1:B:141:PHE:HD1	1:B:516:MET:SD	2.21	0.63
1:B:244:PHE:CE2	1:B:246:PRO:CB	2.76	0.63
1:B:337:GLU:CB	1:B:338:TRP:HA	2.27	0.63
1:D:146:GLU:O	1:D:511:TRP:HB2	1.99	0.63
1:D:357:GLN:HB3	1:D:362:SER:HB3	1.78	0.63
1:H:173:LEU:HB2	1:H:487:ALA:HB3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:284:ARG:NH2	1:W:100:SER:HA	2.12	0.63
1:J:141:PHE:HD1	1:J:516:MET:SD	2.21	0.63
1:M:114:ALA:HB1	1:M:120:TRP:HE1	1.63	0.63
1:M:257:ARG:HG3	1:2:37:SER:H	1.64	0.63
1:N:37:SER:H	1:g:257:ARG:HG3	1.64	0.63
1:P:89:GLN:HB3	1:P:90:ASP:HA	1.79	0.63
1:T:146:GLU:O	1:T:511:TRP:HB2	1.99	0.63
1:1:173:LEU:HB2	1:1:487:ALA:HB3	1.79	0.63
1:2:146:GLU:O	1:2:511:TRP:HB2	1.99	0.63
1:5:342:TYR:CE1	1:5:347:PRO:HG3	2.32	0.63
1:a:141:PHE:HD1	1:a:516:MET:SD	2.21	0.63
1:c:284:ARG:NH2	1:d:100:SER:HA	2.12	0.63
1:f:146:GLU:O	1:f:511:TRP:HB2	1.99	0.63
1:f:173:LEU:HB2	1:f:487:ALA:HB3	1.79	0.63
1:i:141:PHE:HD1	1:i:516:MET:SD	2.21	0.63
1:l:89:GLN:HB3	1:l:90:ASP:HA	1.79	0.63
1:o:337:GLU:CB	1:o:338:TRP:HA	2.27	0.63
1:6:342:TYR:CE1	1:6:347:PRO:HG3	2.32	0.63
1:B:246:PRO:CG	1:L:528:TRP:CB	2.65	0.63
1:H:100:SER:HA	1:Y:284:ARG:NH2	2.12	0.63
1:J:89:GLN:HB3	1:J:90:ASP:HA	1.79	0.63
1:J:146:GLU:O	1:J:511:TRP:HB2	1.99	0.63
1:J:342:TYR:CE1	1:J:347:PRO:HG3	2.32	0.63
1:R:100:SER:HA	1:U:284:ARG:NH2	2.12	0.63
1:S:173:LEU:HB2	1:S:487:ALA:HB3	1.79	0.63
1:V:93:GLY:C	1:V:96:THR:HG23	2.20	0.63
1:V:114:ALA:HB1	1:V:120:TRP:HE1	1.63	0.63
1:V:257:ARG:HG3	1:W:37:SER:H	1.63	0.63
1:3:146:GLU:O	1:3:511:TRP:HB2	1.99	0.63
1:d:114:ALA:HB1	1:d:120:TRP:HE1	1.63	0.63
1:f:255:LEU:O	1:f:256:LEU:HD23	1.97	0.63
1:g:114:ALA:HB1	1:g:120:TRP:HE1	1.63	0.63
1:h:357:GLN:HB3	1:h:362:SER:HB3	1.78	0.63
1:i:173:LEU:HB2	1:i:487:ALA:HB3	1.79	0.63
1:j:146:GLU:O	1:j:511:TRP:HB2	1.99	0.63
1:m:114:ALA:HB1	1:m:120:TRP:HE1	1.63	0.63
1:n:36:HIS:CE1	1:z:33:GLY:C	2.44	0.63
1:q:173:LEU:HB2	1:q:487:ALA:HB3	1.79	0.63
1:s:89:GLN:HB3	1:s:90:ASP:HA	1.79	0.63
1:y:100:SER:HA	1:6:284:ARG:NH2	2.12	0.63
1:A:100:SER:HA	1:I:284:ARG:NH2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:337:GLU:CB	1:D:338:TRP:HA	2.27	0.63
1:I:342:TYR:CE1	1:I:347:PRO:HG3	2.32	0.63
1:K:284:ARG:NH2	1:0:100:SER:HA	2.12	0.63
1:M:100:SER:HA	1:1:284:ARG:NH2	2.12	0.63
1:N:146:GLU:O	1:N:511:TRP:HB2	1.99	0.63
1:O:284:ARG:NH2	1:g:100:SER:HA	2.12	0.63
1:R:89:GLN:HB3	1:R:90:ASP:HA	1.79	0.63
1:U:146:GLU:O	1:U:511:TRP:HB2	1.99	0.63
1:V:89:GLN:HB3	1:V:90:ASP:HA	1.79	0.63
1:W:528:TRP:CB	1:Y:246:PRO:CG	2.65	0.63
1:X:100:SER:HA	1:4:284:ARG:NH2	2.12	0.63
1:Y:37:SER:H	1:x:257:ARG:HG3	1.63	0.63
1:0:141:PHE:HD1	1:0:516:MET:SD	2.21	0.63
1:5:141:PHE:HD1	1:5:516:MET:SD	2.21	0.63
1:5:146:GLU:O	1:5:511:TRP:HB2	1.99	0.63
1:a:337:GLU:CB	1:a:338:TRP:HA	2.28	0.63
1:g:141:PHE:HD1	1:g:516:MET:SD	2.21	0.63
1:h:114:ALA:HB1	1:h:120:TRP:HE1	1.63	0.63
1:i:146:GLU:O	1:i:511:TRP:HB2	1.99	0.63
1:k:114:ALA:HB1	1:k:120:TRP:HE1	1.63	0.63
1:k:284:ARG:NH2	1:l:100:SER:HA	2.12	0.63
1:6:146:GLU:O	1:6:511:TRP:HB2	1.99	0.63
1:7:114:ALA:HB1	1:7:120:TRP:HE1	1.63	0.63
1:D:173:LEU:HB2	1:D:487:ALA:HB3	1.79	0.63
1:H:34:VAL:HG22	1:Z:36:HIS:CD2	2.34	0.63
1:H:257:ARG:HG3	1:Z:37:SER:H	1.63	0.63
1:J:36:HIS:CD2	1:0:34:VAL:HG22	2.34	0.63
1:O:114:ALA:HB1	1:O:120:TRP:HE1	1.63	0.63
1:O:141:PHE:HD1	1:O:516:MET:SD	2.21	0.63
1:P:146:GLU:O	1:P:511:TRP:HB2	1.99	0.63
1:Y:36:HIS:CD2	1:x:34:VAL:HG22	2.34	0.63
1:Z:173:LEU:HB2	1:Z:487:ALA:HB3	1.79	0.63
1:3:526:ARG:NH1	1:f:183:LEU:O	2.26	0.63
1:4:36:HIS:C	1:b:257:ARG:HD3	2.22	0.63
1:e:141:PHE:HD1	1:e:516:MET:SD	2.21	0.63
1:k:141:PHE:HD1	1:k:516:MET:SD	2.21	0.63
1:l:141:PHE:HD1	1:l:516:MET:SD	2.21	0.63
1:l:257:ARG:HG3	1:r:37:SER:H	1.64	0.63
1:m:141:PHE:HD1	1:m:516:MET:SD	2.21	0.63
1:n:141:PHE:HD1	1:n:516:MET:SD	2.21	0.63
1:q:337:GLU:CB	1:q:338:TRP:HA	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:146:GLU:O	1:r:511:TRP:HB2	1.99	0.63
1:v:114:ALA:HB1	1:v:120:TRP:HE1	1.63	0.63
1:w:100:SER:HA	1:x:284:ARG:NH2	2.12	0.63
1:z:173:LEU:HB2	1:z:487:ALA:HB3	1.79	0.63
1:A:114:ALA:HB1	1:A:120:TRP:HE1	1.63	0.63
1:A:191:PHE:CE1	1:A:470:HIS:HE1	2.16	0.63
1:C:141:PHE:HD1	1:C:516:MET:SD	2.21	0.63
1:C:357:GLN:HB3	1:C:362:SER:HB3	1.78	0.63
1:E:141:PHE:HD1	1:E:516:MET:SD	2.21	0.63
1:F:146:GLU:O	1:F:511:TRP:HB2	1.99	0.63
1:F:257:ARG:HG3	1:R:37:SER:H	1.63	0.63
1:G:36:HIS:CD2	1:W:34:VAL:HG22	2.34	0.63
1:L:337:GLU:CB	1:L:338:TRP:HA	2.28	0.63
1:O:36:HIS:CD2	1:P:34:VAL:HG22	2.33	0.63
1:Q:141:PHE:HD1	1:Q:516:MET:SD	2.21	0.63
1:S:337:GLU:CB	1:S:338:TRP:HA	2.27	0.63
1:U:114:ALA:HB1	1:U:120:TRP:HE1	1.63	0.63
1:X:141:PHE:HD1	1:X:516:MET:SD	2.21	0.63
1:Y:173:LEU:HB2	1:Y:487:ALA:HB3	1.79	0.63
1:Z:246:PRO:CG	1:w:528:TRP:CB	2.65	0.63
1:0:146:GLU:O	1:0:511:TRP:HB2	1.99	0.63
1:a:34:VAL:HG22	1:e:36:HIS:CD2	2.33	0.63
1:b:337:GLU:CB	1:b:338:TRP:HA	2.28	0.63
1:c:141:PHE:HD1	1:c:516:MET:SD	2.21	0.63
1:e:357:GLN:HB3	1:e:362:SER:HB3	1.78	0.63
1:h:141:PHE:HD1	1:h:516:MET:SD	2.21	0.63
1:s:146:GLU:O	1:s:511:TRP:HB2	1.99	0.63
1:y:114:ALA:HB1	1:y:120:TRP:HE1	1.63	0.63
1:6:114:ALA:HB1	1:6:120:TRP:HE1	1.63	0.63
1:7:130:ILE:HD12	1:7:562:ALA:HB2	1.81	0.63
1:7:146:GLU:O	1:7:511:TRP:HB2	1.99	0.63
1:B:146:GLU:O	1:B:511:TRP:HB2	1.99	0.63
1:D:89:GLN:HB3	1:D:90:ASP:HA	1.79	0.63
1:M:36:HIS:CD2	1:N:34:VAL:HG22	2.34	0.63
1:R:114:ALA:HB1	1:R:120:TRP:HE1	1.63	0.63
1:R:141:PHE:HD1	1:R:516:MET:SD	2.21	0.63
1:V:130:ILE:HD12	1:V:562:ALA:HB2	1.81	0.63
1:W:404:GLN:HE22	1:W:443:ASP:N	1.97	0.63
1:X:93:GLY:C	1:X:96:THR:HG23	2.20	0.63
1:X:146:GLU:O	1:X:511:TRP:HB2	1.99	0.63
1:1:141:PHE:HD1	1:1:516:MET:SD	2.21	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:34:VAL:HG22	1:m:36:HIS:CD2	2.34	0.63
1:a:36:HIS:CD2	1:u:34:VAL:HG22	2.34	0.63
1:l:114:ALA:HB1	1:l:120:TRP:HE1	1.63	0.63
1:l:173:LEU:HB2	1:l:487:ALA:HB3	1.79	0.63
1:n:93:GLY:C	1:n:96:THR:HG23	2.20	0.63
1:o:36:HIS:CD2	1:v:34:VAL:HG22	2.34	0.63
1:o:146:GLU:O	1:o:511:TRP:HB2	1.99	0.63
1:o:257:ARG:HG3	1:y:37:SER:H	1.63	0.63
1:p:141:PHE:HD1	1:p:516:MET:SD	2.21	0.63
1:x:146:GLU:O	1:x:511:TRP:HB2	1.99	0.63
1:z:337:GLU:CB	1:z:338:TRP:HA	2.27	0.63
1:6:130:ILE:HD12	1:6:562:ALA:HB2	1.81	0.63
1:7:89:GLN:HB3	1:7:90:ASP:HA	1.79	0.63
1:A:36:HIS:C	1:E:257:ARG:HD3	2.23	0.62
1:F:404:GLN:HE22	1:F:443:ASP:N	1.97	0.62
1:G:114:ALA:HB1	1:G:120:TRP:HE1	1.63	0.62
1:H:146:GLU:O	1:H:511:TRP:HB2	1.99	0.62
1:K:114:ALA:HB1	1:K:120:TRP:HE1	1.63	0.62
1:M:191:PHE:CE1	1:M:470:HIS:HE1	2.16	0.62
1:Q:146:GLU:O	1:Q:511:TRP:HB2	1.99	0.62
1:T:114:ALA:HB1	1:T:120:TRP:HE1	1.63	0.62
1:U:130:ILE:HD12	1:U:562:ALA:HB2	1.81	0.62
1:X:114:ALA:HB1	1:X:120:TRP:HE1	1.63	0.62
1:Y:130:ILE:HD12	1:Y:562:ALA:HB2	1.81	0.62
1:Z:130:ILE:HD12	1:Z:562:ALA:HB2	1.81	0.62
1:2:244:PHE:CE2	1:2:246:PRO:CB	2.76	0.62
1:a:146:GLU:O	1:a:511:TRP:HB2	1.99	0.62
1:d:36:HIS:CD2	1:r:34:VAL:HG22	2.34	0.62
1:d:404:GLN:HE22	1:d:443:ASP:N	1.97	0.62
1:f:244:PHE:CE2	1:f:246:PRO:CB	2.76	0.62
1:i:114:ALA:HB1	1:i:120:TRP:HE1	1.63	0.62
1:n:146:GLU:O	1:n:511:TRP:HB2	1.99	0.62
1:q:89:GLN:HB3	1:q:90:ASP:HA	1.79	0.62
1:u:114:ALA:HB1	1:u:120:TRP:HE1	1.63	0.62
1:u:191:PHE:CE1	1:u:470:HIS:HE1	2.16	0.62
1:u:337:GLU:CB	1:u:338:TRP:HA	2.27	0.62
1:v:36:HIS:CD2	1:w:34:VAL:HG22	2.34	0.62
1:w:404:GLN:HE22	1:w:443:ASP:N	1.97	0.62
1:I:146:GLU:O	1:I:511:TRP:HB2	1.99	0.62
1:L:146:GLU:O	1:L:511:TRP:HB2	1.99	0.62
1:N:141:PHE:HD1	1:N:516:MET:SD	2.21	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:37:SER:HG	1:U:257:ARG:CG	1.93	0.62
1:V:146:GLU:O	1:V:511:TRP:HB2	1.99	0.62
1:W:146:GLU:O	1:W:511:TRP:HB2	1.99	0.62
1:Y:141:PHE:HD1	1:Y:516:MET:SD	2.21	0.62
1:Z:141:PHE:HD1	1:Z:516:MET:SD	2.21	0.62
1:0:93:GLY:C	1:0:96:THR:HG23	2.20	0.62
1:4:244:PHE:CE2	1:4:246:PRO:CB	2.76	0.62
1:f:34:VAL:HG22	1:h:36:HIS:CD2	2.34	0.62
1:f:114:ALA:HB1	1:f:120:TRP:HE1	1.63	0.62
1:g:173:LEU:HB2	1:g:487:ALA:HB3	1.79	0.62
1:h:146:GLU:O	1:h:511:TRP:HB2	1.99	0.62
1:k:36:HIS:CD2	1:s:34:VAL:HG22	2.34	0.62
1:l:146:GLU:O	1:l:511:TRP:HB2	1.99	0.62
1:m:130:ILE:HD12	1:m:562:ALA:HB2	1.81	0.62
1:n:36:HIS:CD2	1:z:34:VAL:HG22	2.34	0.62
1:o:404:GLN:HE22	1:o:443:ASP:N	1.97	0.62
1:p:146:GLU:O	1:p:511:TRP:HB2	1.99	0.62
1:x:141:PHE:HD1	1:x:516:MET:SD	2.21	0.62
1:y:141:PHE:HD1	1:y:516:MET:SD	2.21	0.62
1:y:146:GLU:O	1:y:511:TRP:HB2	1.99	0.62
1:B:191:PHE:CE1	1:B:470:HIS:HE1	2.16	0.62
1:C:146:GLU:O	1:C:511:TRP:HB2	1.99	0.62
1:D:247:LEU:O	1:D:248:GLU:CB	2.42	0.62
1:E:146:GLU:O	1:E:511:TRP:HB2	1.99	0.62
1:F:36:HIS:CD2	1:G:34:VAL:HG22	2.34	0.62
1:H:141:PHE:HD1	1:H:516:MET:SD	2.21	0.62
1:L:130:ILE:HD12	1:L:562:ALA:HB2	1.81	0.62
1:M:404:GLN:HE22	1:M:443:ASP:N	1.97	0.62
1:Q:36:HIS:CD2	1:S:34:VAL:HG22	2.34	0.62
1:Q:93:GLY:C	1:Q:96:THR:HG23	2.20	0.62
1:R:146:GLU:O	1:R:511:TRP:HB2	1.99	0.62
1:T:36:HIS:CD2	1:U:34:VAL:HG22	2.34	0.62
1:0:404:GLN:HE22	1:0:443:ASP:N	1.97	0.62
1:3:130:ILE:HD12	1:3:562:ALA:HB2	1.81	0.62
1:4:114:ALA:HB1	1:4:120:TRP:HE1	1.63	0.62
1:a:98:ASN:CB	1:b:316:ARG:HH22	2.00	0.62
1:b:36:HIS:CD2	1:c:34:VAL:HG22	2.34	0.62
1:d:191:PHE:CE1	1:d:470:HIS:HE1	2.16	0.62
1:e:146:GLU:O	1:e:511:TRP:HB2	1.99	0.62
1:g:146:GLU:O	1:g:511:TRP:HB2	1.99	0.62
1:i:37:SER:HG	1:6:257:ARG:CG	1.93	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:247:LEU:O	1:i:248:GLU:CB	2.42	0.62
1:j:130:ILE:HD12	1:j:562:ALA:HB2	1.81	0.62
1:m:146:GLU:O	1:m:511:TRP:HB2	1.99	0.62
1:r:141:PHE:HD1	1:r:516:MET:SD	2.21	0.62
1:t:141:PHE:HD1	1:t:516:MET:SD	2.21	0.62
1:t:146:GLU:O	1:t:511:TRP:HB2	1.99	0.62
1:w:146:GLU:O	1:w:511:TRP:HB2	1.99	0.62
1:A:337:GLU:CB	1:A:338:TRP:HA	2.28	0.62
1:C:130:ILE:HD12	1:C:562:ALA:HB2	1.81	0.62
1:D:130:ILE:HD12	1:D:562:ALA:HB2	1.81	0.62
1:M:130:ILE:HD12	1:M:562:ALA:HB2	1.81	0.62
1:O:526:ARG:NH1	1:g:183:LEU:O	2.26	0.62
1:T:34:VAL:HG22	1:c:36:HIS:CD2	2.34	0.62
1:T:247:LEU:O	1:T:248:GLU:CB	2.42	0.62
1:Y:114:ALA:HB1	1:Y:120:TRP:HE1	1.63	0.62
1:0:114:ALA:HB1	1:0:120:TRP:HE1	1.63	0.62
1:5:114:ALA:HB1	1:5:120:TRP:HE1	1.63	0.62
1:b:146:GLU:O	1:b:511:TRP:HB2	1.99	0.62
1:e:114:ALA:HB1	1:e:120:TRP:HE1	1.63	0.62
1:h:130:ILE:HD12	1:h:562:ALA:HB2	1.81	0.62
1:k:526:ARG:NH1	1:l:183:LEU:O	2.26	0.62
1:n:404:GLN:HE22	1:n:443:ASP:N	1.97	0.62
1:q:130:ILE:HD12	1:q:562:ALA:HB2	1.81	0.62
1:z:404:GLN:HE22	1:z:443:ASP:N	1.97	0.62
1:G:130:ILE:HD12	1:G:562:ALA:HB2	1.81	0.62
1:G:404:GLN:HE22	1:G:443:ASP:N	1.97	0.62
1:H:130:ILE:HD12	1:H:562:ALA:HB2	1.81	0.62
1:I:141:PHE:HD1	1:I:516:MET:SD	2.21	0.62
1:J:114:ALA:HB1	1:J:120:TRP:HE1	1.63	0.62
1:N:404:GLN:HE22	1:N:443:ASP:N	1.97	0.62
1:Q:404:GLN:HE22	1:Q:443:ASP:N	1.97	0.62
1:S:404:GLN:HE22	1:S:443:ASP:N	1.97	0.62
1:T:36:HIS:CE1	1:U:33:GLY:C	2.44	0.62
1:T:130:ILE:HD12	1:T:562:ALA:HB2	1.81	0.62
1:X:404:GLN:HE22	1:X:443:ASP:N	1.97	0.62
1:Y:404:GLN:HE22	1:Y:443:ASP:N	1.97	0.62
1:Z:114:ALA:HB1	1:Z:120:TRP:HE1	1.63	0.62
1:0:130:ILE:HD12	1:0:562:ALA:HB2	1.81	0.62
1:1:146:GLU:O	1:1:511:TRP:HB2	1.99	0.62
1:2:114:ALA:HB1	1:2:120:TRP:HE1	1.63	0.62
1:b:130:ILE:HD12	1:b:562:ALA:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:130:ILE:HD12	1:d:562:ALA:HB2	1.81	0.62
1:e:130:ILE:HD12	1:e:562:ALA:HB2	1.81	0.62
1:g:93:GLY:C	1:g:96:THR:HG23	2.20	0.62
1:i:36:HIS:CD2	1:6:34:VAL:HG22	2.34	0.62
1:i:130:ILE:HD12	1:i:562:ALA:HB2	1.81	0.62
1:r:244:PHE:CE2	1:r:246:PRO:CB	2.76	0.62
1:r:404:GLN:HE22	1:r:443:ASP:N	1.97	0.62
1:v:130:ILE:HD12	1:v:562:ALA:HB2	1.81	0.62
1:x:130:ILE:HD12	1:x:562:ALA:HB2	1.81	0.62
1:B:34:VAL:HG22	1:C:36:HIS:CD2	2.34	0.62
1:C:98:ASN:CB	1:M:316:ARG:HH22	1.92	0.62
1:K:191:PHE:CE1	1:K:470:HIS:HE1	2.16	0.62
1:K:244:PHE:CE2	1:K:246:PRO:CB	2.76	0.62
1:K:257:ARG:HG3	1:6:37:SER:H	1.63	0.62
1:L:36:HIS:CD2	1:1:34:VAL:HG22	2.34	0.62
1:O:37:SER:H	1:P:257:ARG:HG3	1.63	0.62
1:S:130:ILE:HD12	1:S:562:ALA:HB2	1.81	0.62
1:W:130:ILE:HD12	1:W:562:ALA:HB2	1.81	0.62
1:5:257:ARG:HG3	1:t:37:SER:H	1.63	0.62
1:a:191:PHE:CE1	1:a:470:HIS:HE1	2.16	0.62
1:b:404:GLN:HE22	1:b:443:ASP:N	1.97	0.62
1:k:146:GLU:O	1:k:511:TRP:HB2	1.99	0.62
1:t:191:PHE:CE1	1:t:470:HIS:HE1	2.16	0.62
1:u:404:GLN:HE22	1:u:443:ASP:N	1.97	0.62
1:A:257:ARG:HG3	1:B:37:SER:H	1.62	0.62
1:A:404:GLN:HE22	1:A:443:ASP:N	1.97	0.62
1:C:114:ALA:HB1	1:C:120:TRP:HE1	1.63	0.62
1:I:37:SER:H	1:J:257:ARG:HG3	1.63	0.62
1:L:404:GLN:HE22	1:L:443:ASP:N	1.97	0.62
1:P:37:SER:H	1:Q:257:ARG:HG3	1.64	0.62
1:T:34:VAL:O	1:T:34:VAL:HG12	2.00	0.62
1:V:404:GLN:HE22	1:V:443:ASP:N	1.97	0.62
1:X:130:ILE:HD12	1:X:562:ALA:HB2	1.81	0.62
1:Z:404:GLN:HE22	1:Z:443:ASP:N	1.97	0.62
1:1:36:HIS:CD2	1:i:34:VAL:HG22	2.34	0.62
1:3:34:VAL:HG12	1:3:34:VAL:O	2.00	0.62
1:k:130:ILE:HD12	1:k:562:ALA:HB2	1.81	0.62
1:k:244:PHE:CE2	1:k:246:PRO:CB	2.76	0.62
1:l:93:GLY:C	1:l:96:THR:HG23	2.20	0.62
1:n:257:ARG:HG3	1:s:37:SER:H	1.64	0.62
1:r:130:ILE:HD12	1:r:562:ALA:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:98:ASN:CB	1:v:316:ARG:HH22	1.92	0.62
1:v:404:GLN:HE22	1:v:443:ASP:N	1.97	0.62
1:w:130:ILE:HD12	1:w:562:ALA:HB2	1.81	0.62
1:z:130:ILE:HD12	1:z:562:ALA:HB2	1.81	0.62
1:C:34:VAL:HG12	1:C:34:VAL:O	2.00	0.62
1:E:93:GLY:C	1:E:96:THR:HG23	2.20	0.62
1:F:34:VAL:HG22	1:R:36:HIS:CD2	2.34	0.62
1:J:37:SER:H	1:0:257:ARG:HG3	1.63	0.62
1:M:146:GLU:O	1:M:511:TRP:HB2	1.99	0.62
1:N:244:PHE:CE2	1:N:246:PRO:CB	2.76	0.62
1:O:146:GLU:O	1:O:511:TRP:HB2	1.99	0.62
1:S:36:HIS:CD2	1:3:34:VAL:HG22	2.34	0.62
1:T:404:GLN:HE22	1:T:443:ASP:N	1.97	0.62
1:4:191:PHE:CE1	1:4:470:HIS:HE1	2.16	0.62
1:c:146:GLU:O	1:c:511:TRP:HB2	1.99	0.62
1:e:34:VAL:HG12	1:e:34:VAL:O	2.00	0.62
1:f:404:GLN:HE22	1:f:443:ASP:N	1.97	0.62
1:g:37:SER:H	1:m:257:ARG:HG3	1.63	0.62
1:i:34:VAL:HG12	1:i:34:VAL:O	2.00	0.62
1:t:114:ALA:HB1	1:t:120:TRP:HE1	1.63	0.62
1:6:379:TYR:HB2	1:6:392:GLU:HB3	1.82	0.62
1:E:114:ALA:HB1	1:E:120:TRP:HE1	1.63	0.62
1:I:34:VAL:O	1:I:34:VAL:HG12	2.00	0.62
1:I:114:ALA:HB1	1:I:120:TRP:HE1	1.63	0.62
1:N:130:ILE:HD12	1:N:562:ALA:HB2	1.81	0.62
1:Q:379:TYR:HB2	1:Q:392:GLU:HB3	1.82	0.62
1:R:404:GLN:HE22	1:R:443:ASP:N	1.97	0.62
1:U:37:SER:H	1:4:257:ARG:HG3	1.63	0.62
1:a:242:ILE:O	1:b:529:ASN:ND2	2.33	0.62
1:d:146:GLU:O	1:d:511:TRP:HB2	1.99	0.62
1:h:93:GLY:C	1:h:96:THR:HG23	2.20	0.62
1:h:257:ARG:HG3	1:l:37:SER:H	1.63	0.62
1:j:34:VAL:HG22	1:z:36:HIS:CD2	2.34	0.62
1:j:34:VAL:HG12	1:j:34:VAL:O	2.00	0.62
1:m:93:GLY:C	1:m:96:THR:HG23	2.20	0.62
1:s:130:ILE:HD12	1:s:562:ALA:HB2	1.81	0.62
1:x:337:GLU:CB	1:x:338:TRP:HA	2.28	0.62
1:y:404:GLN:HE22	1:y:443:ASP:N	1.97	0.62
1:A:246:PRO:HG2	1:A:249:THR:HG21	1.82	0.62
1:A:379:TYR:HB2	1:A:392:GLU:HB3	1.82	0.62
1:E:130:ILE:HD12	1:E:562:ALA:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:114:ALA:HB1	1:F:120:TRP:HE1	1.63	0.62
1:G:316:ARG:HH22	1:I:98:ASN:CB	1.92	0.62
1:H:337:GLU:CB	1:H:338:TRP:HA	2.28	0.62
1:J:379:TYR:HB2	1:J:392:GLU:HB3	1.82	0.62
1:K:37:SER:H	1:L:257:ARG:HG3	1.64	0.62
1:K:146:GLU:O	1:K:511:TRP:HB2	1.99	0.62
1:N:246:PRO:HG2	1:N:249:THR:HG21	1.82	0.62
1:O:130:ILE:HD12	1:O:562:ALA:HB2	1.81	0.62
1:P:34:VAL:O	1:P:34:VAL:HG12	2.00	0.62
1:P:130:ILE:HD12	1:P:562:ALA:HB2	1.81	0.62
1:P:379:TYR:HB2	1:P:392:GLU:HB3	1.82	0.62
1:R:130:ILE:HD12	1:R:562:ALA:HB2	1.81	0.62
1:S:328:ASN:ND2	1:U:471:ALA:HB2	2.15	0.62
1:U:379:TYR:HB2	1:U:392:GLU:HB3	1.82	0.62
1:Z:146:GLU:O	1:Z:511:TRP:HB2	1.99	0.62
1:1:404:GLN:HE22	1:1:443:ASP:N	1.97	0.62
1:2:404:GLN:HE22	1:2:443:ASP:N	1.97	0.62
1:4:146:GLU:O	1:4:511:TRP:HB2	1.99	0.62
1:5:404:GLN:HE22	1:5:443:ASP:N	1.97	0.62
1:c:404:GLN:HE22	1:c:443:ASP:N	1.97	0.62
1:d:316:ARG:HH22	1:e:98:ASN:CB	1.92	0.62
1:g:404:GLN:HE22	1:g:443:ASP:N	1.97	0.62
1:i:36:HIS:CE1	1:6:33:GLY:C	2.44	0.62
1:o:34:VAL:HG22	1:y:36:HIS:CD2	2.34	0.62
1:p:130:ILE:HD12	1:p:562:ALA:HB2	1.81	0.62
1:s:34:VAL:O	1:s:34:VAL:HG12	2.00	0.62
1:s:379:TYR:HB2	1:s:392:GLU:HB3	1.82	0.62
1:t:136:ILE:HG22	1:t:520:ALA:HB2	1.82	0.62
1:u:246:PRO:HG2	1:u:249:THR:HG21	1.82	0.62
1:u:379:TYR:HB2	1:u:392:GLU:HB3	1.82	0.62
1:z:114:ALA:HB1	1:z:120:TRP:HE1	1.63	0.62
1:D:34:VAL:HG12	1:D:34:VAL:O	2.00	0.61
1:H:114:ALA:HB1	1:H:120:TRP:HE1	1.63	0.61
1:H:246:PRO:HG2	1:H:249:THR:HG21	1.82	0.61
1:I:136:ILE:HG22	1:I:520:ALA:HB2	1.82	0.61
1:I:191:PHE:CE1	1:I:470:HIS:HE1	2.16	0.61
1:J:404:GLN:HE22	1:J:443:ASP:N	1.97	0.61
1:K:379:TYR:HB2	1:K:392:GLU:HB3	1.82	0.61
1:L:37:SER:H	1:1:257:ARG:HG3	1.63	0.61
1:M:337:GLU:CB	1:M:338:TRP:HA	2.27	0.61
1:Q:130:ILE:HD12	1:Q:562:ALA:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:34:VAL:HG12	1:R:34:VAL:O	2.00	0.61
1:Y:146:GLU:O	1:Y:511:TRP:HB2	1.99	0.61
1:2:136:ILE:HG22	1:2:520:ALA:HB2	1.82	0.61
1:e:257:ARG:CG	1:q:37:SER:HG	1.96	0.61
1:f:136:ILE:HG22	1:f:520:ALA:HB2	1.82	0.61
1:i:404:GLN:HE22	1:i:443:ASP:N	1.97	0.61
1:k:34:VAL:O	1:k:34:VAL:HG12	2.00	0.61
1:l:404:GLN:HE22	1:l:443:ASP:N	1.97	0.61
1:m:191:PHE:CE1	1:m:470:HIS:HE1	2.16	0.61
1:n:130:ILE:HD12	1:n:562:ALA:HB2	1.81	0.61
1:n:379:TYR:HB2	1:n:392:GLU:HB3	1.82	0.61
1:o:114:ALA:HB1	1:o:120:TRP:HE1	1.63	0.61
1:p:114:ALA:HB1	1:p:120:TRP:HE1	1.63	0.61
1:q:34:VAL:HG12	1:q:34:VAL:O	2.00	0.61
1:r:246:PRO:HG2	1:r:249:THR:HG21	1.82	0.61
1:t:34:VAL:HG22	1:x:36:HIS:CD2	2.34	0.61
1:v:379:TYR:HB2	1:v:392:GLU:HB3	1.82	0.61
1:w:471:ALA:HB2	1:x:328:ASN:ND2	2.15	0.61
1:x:246:PRO:HG2	1:x:249:THR:HG21	1.82	0.61
1:y:34:VAL:HG12	1:y:34:VAL:O	2.00	0.61
1:z:328:ASN:ND2	1:6:471:ALA:HB2	2.15	0.61
1:7:404:GLN:HE22	1:7:443:ASP:N	1.98	0.61
1:B:136:ILE:HG22	1:B:520:ALA:HB2	1.82	0.61
1:C:257:ARG:CG	1:D:37:SER:HG	1.96	0.61
1:C:404:GLN:HE22	1:C:443:ASP:N	1.97	0.61
1:D:404:GLN:HE22	1:D:443:ASP:N	1.97	0.61
1:F:136:ILE:HG22	1:F:520:ALA:HB2	1.82	0.61
1:G:379:TYR:HB2	1:G:392:GLU:HB3	1.82	0.61
1:H:36:HIS:CD2	1:I:34:VAL:HG22	2.34	0.61
1:H:37:SER:H	1:I:257:ARG:HG3	1.64	0.61
1:H:328:ASN:ND2	1:W:471:ALA:HB2	2.15	0.61
1:I:36:HIS:CD2	1:J:34:VAL:HG22	2.34	0.61
1:M:471:ALA:HB2	1:1:328:ASN:ND2	2.15	0.61
1:N:36:HIS:CD2	1:g:34:VAL:HG22	2.35	0.61
1:N:379:TYR:HB2	1:N:392:GLU:HB3	1.82	0.61
1:Q:246:PRO:HG2	1:Q:249:THR:HG21	1.82	0.61
1:R:312:GLN:OE1	1:R:324:THR:OG1	2.19	0.61
1:S:246:PRO:HG2	1:S:249:THR:HG21	1.82	0.61
1:Z:34:VAL:HG22	1:0:36:HIS:CD2	2.35	0.61
1:Z:328:ASN:ND2	1:x:471:ALA:HB2	2.16	0.61
1:2:379:TYR:HB2	1:2:392:GLU:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:379:TYR:HB2	1:3:392:GLU:HB3	1.82	0.61
1:4:136:ILE:HG22	1:4:520:ALA:HB2	1.82	0.61
1:4:379:TYR:HB2	1:4:392:GLU:HB3	1.82	0.61
1:5:379:TYR:HB2	1:5:392:GLU:HB3	1.82	0.61
1:a:136:ILE:HG22	1:a:520:ALA:HB2	1.82	0.61
1:a:338:TRP:O	1:b:414:GLN:N	2.31	0.61
1:d:328:ASN:ND2	1:e:471:ALA:HB2	2.16	0.61
1:d:337:GLU:CB	1:d:338:TRP:HA	2.28	0.61
1:f:379:TYR:HB2	1:f:392:GLU:HB3	1.82	0.61
1:g:328:ASN:ND2	1:h:471:ALA:HB2	2.15	0.61
1:h:191:PHE:CE1	1:h:470:HIS:HE1	2.16	0.61
1:k:136:ILE:HG22	1:k:520:ALA:HB2	1.82	0.61
1:p:34:VAL:HG22	1:u:36:HIS:CD2	2.34	0.61
1:p:93:GLY:C	1:p:96:THR:HG23	2.20	0.61
1:t:34:VAL:HG12	1:t:34:VAL:O	2.00	0.61
1:t:130:ILE:HD12	1:t:562:ALA:HB2	1.81	0.61
1:t:257:ARG:HG3	1:x:37:SER:H	1.64	0.61
1:y:130:ILE:HD12	1:y:562:ALA:HB2	1.81	0.61
1:y:312:GLN:OE1	1:y:324:THR:OG1	2.19	0.61
1:z:146:GLU:O	1:z:511:TRP:HB2	1.99	0.61
1:6:404:GLN:HE22	1:6:443:ASP:N	1.97	0.61
1:A:33:GLY:C	1:B:36:HIS:CE1	2.46	0.61
1:A:130:ILE:HD12	1:A:562:ALA:HB2	1.81	0.61
1:D:471:ALA:HB2	1:P:328:ASN:ND2	2.16	0.61
1:E:471:ALA:HB2	1:F:328:ASN:ND2	2.15	0.61
1:F:130:ILE:HD12	1:F:562:ALA:HB2	1.81	0.61
1:F:244:PHE:CE2	1:F:246:PRO:CB	2.76	0.61
1:G:146:GLU:O	1:G:511:TRP:HB2	1.99	0.61
1:H:471:ALA:HB2	1:Y:328:ASN:ND2	2.16	0.61
1:I:130:ILE:HD12	1:I:562:ALA:HB2	1.81	0.61
1:J:136:ILE:HG22	1:J:520:ALA:HB2	1.82	0.61
1:K:136:ILE:HG22	1:K:520:ALA:HB2	1.82	0.61
1:K:247:LEU:O	1:K:248:GLU:CB	2.42	0.61
1:O:404:GLN:HE22	1:O:443:ASP:N	1.97	0.61
1:S:114:ALA:HB1	1:S:120:TRP:HE1	1.63	0.61
1:S:136:ILE:HG22	1:S:520:ALA:HB2	1.82	0.61
1:S:146:GLU:O	1:S:511:TRP:HB2	1.99	0.61
1:U:404:GLN:HE22	1:U:443:ASP:N	1.97	0.61
1:X:36:HIS:CD2	1:Y:34:VAL:HG22	2.35	0.61
1:X:246:PRO:HG2	1:X:249:THR:HG21	1.82	0.61
1:Y:34:VAL:HG12	1:Y:34:VAL:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:246:PRO:HG2	1:0:249:THR:HG21	1.82	0.61
1:2:328:ASN:ND2	1:i:471:ALA:HB2	2.15	0.61
1:3:404:GLN:HE22	1:3:443:ASP:N	1.97	0.61
1:5:136:ILE:HG22	1:5:520:ALA:HB2	1.82	0.61
1:5:529:ASN:ND2	1:b:242:ILE:O	2.32	0.61
1:a:130:ILE:HD12	1:a:562:ALA:HB2	1.81	0.61
1:c:328:ASN:ND2	1:d:471:ALA:HB2	2.15	0.61
1:d:34:VAL:HG22	1:f:36:HIS:CD2	2.34	0.61
1:e:34:VAL:HG22	1:q:36:HIS:CD2	2.35	0.61
1:h:246:PRO:HG2	1:h:249:THR:HG21	1.82	0.61
1:h:404:GLN:HE22	1:h:443:ASP:N	1.97	0.61
1:n:246:PRO:HG2	1:n:249:THR:HG21	1.82	0.61
1:o:130:ILE:HD12	1:o:562:ALA:HB2	1.81	0.61
1:o:244:PHE:CE2	1:o:246:PRO:CB	2.76	0.61
1:q:246:PRO:HG2	1:q:249:THR:HG21	1.82	0.61
1:q:404:GLN:HE22	1:q:443:ASP:N	1.97	0.61
1:r:379:TYR:HB2	1:r:392:GLU:HB3	1.82	0.61
1:s:247:LEU:O	1:s:248:GLU:CB	2.42	0.61
1:u:130:ILE:HD12	1:u:562:ALA:HB2	1.81	0.61
1:x:114:ALA:HB1	1:x:120:TRP:HE1	1.63	0.61
1:x:379:TYR:HB2	1:x:392:GLU:HB3	1.82	0.61
1:B:130:ILE:HD12	1:B:562:ALA:HB2	1.81	0.61
1:C:34:VAL:HG22	1:D:36:HIS:CD2	2.35	0.61
1:C:471:ALA:HB2	1:M:328:ASN:ND2	2.16	0.61
1:D:246:PRO:HG2	1:D:249:THR:HG21	1.82	0.61
1:H:379:TYR:HB2	1:H:392:GLU:HB3	1.82	0.61
1:M:136:ILE:HG22	1:M:520:ALA:HB2	1.82	0.61
1:M:312:GLN:OE1	1:M:324:THR:OG1	2.18	0.61
1:O:34:VAL:HG12	1:O:34:VAL:O	2.00	0.61
1:O:136:ILE:HG22	1:O:520:ALA:HB2	1.83	0.61
1:P:136:ILE:HG22	1:P:520:ALA:HB2	1.82	0.61
1:Q:37:SER:H	1:S:257:ARG:HG3	1.63	0.61
1:R:471:ALA:HB2	1:U:328:ASN:ND2	2.16	0.61
1:T:471:ALA:HB2	1:f:328:ASN:ND2	2.15	0.61
1:V:312:GLN:OE1	1:V:324:THR:OG1	2.19	0.61
1:a:404:GLN:HE22	1:a:443:ASP:N	1.97	0.61
1:d:136:ILE:HG22	1:d:520:ALA:HB2	1.82	0.61
1:e:404:GLN:HE22	1:e:443:ASP:N	1.97	0.61
1:f:312:GLN:OE1	1:f:324:THR:OG1	2.19	0.61
1:g:34:VAL:O	1:g:34:VAL:HG12	2.00	0.61
1:j:379:TYR:HB2	1:j:392:GLU:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:404:GLN:HE22	1:k:443:ASP:N	1.98	0.61
1:l:34:VAL:HG22	1:r:36:HIS:CD2	2.35	0.61
1:l:328:ASN:ND2	1:m:471:ALA:HB2	2.16	0.61
1:m:246:PRO:HG2	1:m:249:THR:HG21	1.82	0.61
1:o:136:ILE:HG22	1:o:520:ALA:HB2	1.83	0.61
1:o:328:ASN:ND2	1:p:471:ALA:HB2	2.15	0.61
1:p:246:PRO:HG2	1:p:249:THR:HG21	1.82	0.61
1:q:136:ILE:HG22	1:q:520:ALA:HB2	1.82	0.61
1:q:471:ALA:HB2	1:s:328:ASN:ND2	2.16	0.61
1:s:136:ILE:HG22	1:s:520:ALA:HB2	1.82	0.61
1:u:136:ILE:HG22	1:u:520:ALA:HB2	1.82	0.61
1:v:146:GLU:O	1:v:511:TRP:HB2	1.99	0.61
1:w:36:HIS:CD2	1:7:34:VAL:HG22	2.34	0.61
1:y:257:ARG:HG3	1:7:37:SER:H	1.64	0.61
1:y:471:ALA:HB2	1:6:328:ASN:ND2	2.16	0.61
1:z:246:PRO:HG2	1:z:249:THR:HG21	1.82	0.61
1:A:146:GLU:O	1:A:511:TRP:HB2	1.99	0.61
1:B:86:PRO:HG3	1:B:95:ASP:HB2	1.83	0.61
1:C:246:PRO:HG2	1:C:249:THR:HG21	1.82	0.61
1:G:246:PRO:HG2	1:G:249:THR:HG21	1.82	0.61
1:K:404:GLN:HE22	1:K:443:ASP:N	1.97	0.61
1:L:379:TYR:HB2	1:L:392:GLU:HB3	1.82	0.61
1:P:247:LEU:O	1:P:248:GLU:CB	2.42	0.61
1:P:404:GLN:HE22	1:P:443:ASP:N	1.97	0.61
1:R:328:ASN:ND2	1:S:471:ALA:HB2	2.16	0.61
1:T:37:SER:H	1:U:257:ARG:HG3	1.63	0.61
1:T:257:ARG:HG3	1:c:37:SER:H	1.63	0.61
1:X:379:TYR:HB2	1:X:392:GLU:HB3	1.82	0.61
1:Y:136:ILE:HG22	1:Y:520:ALA:HB2	1.82	0.61
1:0:379:TYR:HB2	1:0:392:GLU:HB3	1.82	0.61
1:1:312:GLN:OE1	1:1:324:THR:OG1	2.18	0.61
1:2:130:ILE:HD12	1:2:562:ALA:HB2	1.81	0.61
1:2:312:GLN:OE1	1:2:324:THR:OG1	2.19	0.61
1:4:404:GLN:HE22	1:4:443:ASP:N	1.97	0.61
1:5:34:VAL:HG22	1:t:36:HIS:CD2	2.35	0.61
1:a:257:ARG:CG	1:e:37:SER:HG	1.93	0.61
1:b:34:VAL:HG12	1:b:34:VAL:O	2.00	0.61
1:b:379:TYR:HB2	1:b:392:GLU:HB3	1.82	0.61
1:c:130:ILE:HD12	1:c:562:ALA:HB2	1.81	0.61
1:c:312:GLN:OE1	1:c:324:THR:OG1	2.19	0.61
1:d:312:GLN:OE1	1:d:324:THR:OG1	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:257:ARG:HG3	1:z:37:SER:H	1.64	0.61
1:l:34:VAL:HG12	1:l:34:VAL:O	2.00	0.61
1:m:244:PHE:CE2	1:m:246:PRO:CB	2.76	0.61
1:p:36:HIS:CD2	1:q:34:VAL:HG22	2.34	0.61
1:w:379:TYR:HB2	1:w:392:GLU:HB3	1.82	0.61
1:7:312:GLN:OE1	1:7:324:THR:OG1	2.19	0.61
1:A:136:ILE:HG22	1:A:520:ALA:HB2	1.82	0.61
1:B:257:ARG:CG	1:C:37:SER:HG	1.94	0.61
1:B:404:GLN:HE22	1:B:443:ASP:N	1.97	0.61
1:D:136:ILE:HG22	1:D:520:ALA:HB2	1.83	0.61
1:E:246:PRO:HG2	1:E:249:THR:HG21	1.82	0.61
1:G:136:ILE:HG22	1:G:520:ALA:HB2	1.82	0.61
1:H:34:VAL:O	1:H:34:VAL:HG12	2.00	0.61
1:H:86:PRO:HG3	1:H:95:ASP:HB2	1.83	0.61
1:I:86:PRO:HG3	1:I:95:ASP:HB2	1.83	0.61
1:K:130:ILE:HD12	1:K:562:ALA:HB2	1.81	0.61
1:L:34:VAL:O	1:L:34:VAL:HG12	2.00	0.61
1:L:312:GLN:OE1	1:L:324:THR:OG1	2.19	0.61
1:M:34:VAL:HG22	1:2:36:HIS:CD2	2.34	0.61
1:O:328:ASN:ND2	1:g:471:ALA:HB2	2.16	0.61
1:P:86:PRO:HG3	1:P:95:ASP:HB2	1.83	0.61
1:S:37:SER:H	1:3:257:ARG:HG3	1.64	0.61
1:U:246:PRO:HG2	1:U:249:THR:HG21	1.82	0.61
1:W:379:TYR:HB2	1:W:392:GLU:HB3	1.82	0.61
1:X:471:ALA:HB2	1:4:328:ASN:ND2	2.16	0.61
1:Z:34:VAL:HG12	1:Z:34:VAL:O	2.00	0.61
1:1:86:PRO:HG3	1:1:95:ASP:HB2	1.83	0.61
1:1:130:ILE:HD12	1:1:562:ALA:HB2	1.81	0.61
1:2:257:ARG:HG3	1:m:37:SER:H	1.64	0.61
1:4:130:ILE:HD12	1:4:562:ALA:HB2	1.81	0.61
1:4:247:LEU:O	1:4:248:GLU:CB	2.42	0.61
1:5:130:ILE:HD12	1:5:562:ALA:HB2	1.81	0.61
1:a:86:PRO:HG3	1:a:95:ASP:HB2	1.83	0.61
1:c:86:PRO:HG3	1:c:95:ASP:HB2	1.83	0.61
1:e:246:PRO:HG2	1:e:249:THR:HG21	1.82	0.61
1:f:130:ILE:HD12	1:f:562:ALA:HB2	1.81	0.61
1:f:257:ARG:HG3	1:h:37:SER:H	1.64	0.61
1:g:312:GLN:OE1	1:g:324:THR:OG1	2.18	0.61
1:i:37:SER:H	1:6:257:ARG:HG3	1.63	0.61
1:j:36:HIS:CD2	1:k:34:VAL:HG22	2.34	0.61
1:j:404:GLN:HE22	1:j:443:ASP:N	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:404:GLN:HE22	1:m:443:ASP:N	1.97	0.61
1:p:404:GLN:HE22	1:p:443:ASP:N	1.97	0.61
1:r:136:ILE:HG22	1:r:520:ALA:HB2	1.82	0.61
1:s:86:PRO:HG3	1:s:95:ASP:HB2	1.83	0.61
1:s:404:GLN:HE22	1:s:443:ASP:N	1.98	0.61
1:t:86:PRO:HG3	1:t:95:ASP:HB2	1.83	0.61
1:u:328:ASN:ND2	1:v:471:ALA:HB2	2.16	0.61
1:v:246:PRO:HG2	1:v:249:THR:HG21	1.82	0.61
1:w:136:ILE:HG22	1:w:520:ALA:HB2	1.82	0.61
1:x:86:PRO:HG3	1:x:95:ASP:HB2	1.83	0.61
1:x:404:GLN:HE22	1:x:443:ASP:N	1.97	0.61
1:y:328:ASN:ND2	1:z:471:ALA:HB2	2.16	0.61
1:z:136:ILE:HG22	1:z:520:ALA:HB2	1.83	0.61
1:B:33:GLY:C	1:C:36:HIS:CE1	2.44	0.61
1:C:86:PRO:HG3	1:C:95:ASP:HB2	1.83	0.61
1:D:528:TRP:CB	1:N:246:PRO:CG	2.65	0.61
1:E:328:ASN:ND2	1:Q:471:ALA:HB2	2.16	0.61
1:H:404:GLN:HE22	1:H:443:ASP:N	1.97	0.61
1:I:404:GLN:HE22	1:I:443:ASP:N	1.97	0.61
1:J:130:ILE:HD12	1:J:562:ALA:HB2	1.81	0.61
1:L:246:PRO:HG2	1:L:249:THR:HG21	1.82	0.61
1:M:247:LEU:O	1:M:248:GLU:CB	2.42	0.61
1:N:34:VAL:HG12	1:N:34:VAL:O	2.00	0.61
1:N:136:ILE:HG22	1:N:520:ALA:HB2	1.83	0.61
1:R:257:ARG:HG3	1:V:37:SER:H	1.64	0.61
1:T:86:PRO:HG3	1:T:95:ASP:HB2	1.83	0.61
1:T:312:GLN:OE1	1:T:324:THR:OG1	2.19	0.61
1:U:312:GLN:OE1	1:U:324:THR:OG1	2.19	0.61
1:V:34:VAL:HG22	1:W:36:HIS:CD2	2.34	0.61
1:W:136:ILE:HG22	1:W:520:ALA:HB2	1.82	0.61
1:W:244:PHE:CE2	1:W:246:PRO:CB	2.76	0.61
1:X:257:ARG:HG3	1:5:37:SER:H	1.63	0.61
1:Y:86:PRO:HG3	1:Y:95:ASP:HB2	1.83	0.61
1:Y:312:GLN:OE1	1:Y:324:THR:OG1	2.19	0.61
1:Z:86:PRO:HG3	1:Z:95:ASP:HB2	1.83	0.61
1:1:316:ARG:HA	1:1:419:ASP:HB3	1.83	0.61
1:a:36:HIS:CE1	1:u:33:GLY:C	2.45	0.61
1:b:312:GLN:OE1	1:b:324:THR:OG1	2.19	0.61
1:c:136:ILE:HG22	1:c:520:ALA:HB2	1.82	0.61
1:e:86:PRO:HG3	1:e:95:ASP:HB2	1.83	0.61
1:g:247:LEU:O	1:g:248:GLU:CB	2.42	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:34:VAL:HG22	1:l:36:HIS:CD2	2.34	0.61
1:h:312:GLN:OE1	1:h:324:THR:OG1	2.18	0.61
1:i:86:PRO:HG3	1:i:95:ASP:HB2	1.83	0.61
1:i:136:ILE:HG22	1:i:520:ALA:HB2	1.82	0.61
1:k:328:ASN:ND2	1:l:471:ALA:HB2	2.16	0.61
1:l:130:ILE:HD12	1:l:562:ALA:HB2	1.81	0.61
1:l:312:GLN:OE1	1:l:324:THR:OG1	2.19	0.61
1:n:471:ALA:HB2	1:p:328:ASN:ND2	2.16	0.61
1:p:257:ARG:HG3	1:u:37:SER:H	1.64	0.61
1:r:34:VAL:HG12	1:r:34:VAL:O	2.00	0.61
1:u:146:GLU:O	1:u:511:TRP:HB2	1.99	0.61
1:w:244:PHE:CE2	1:w:246:PRO:CB	2.76	0.61
1:x:34:VAL:HG12	1:x:34:VAL:O	2.00	0.61
1:x:93:GLY:C	1:x:96:THR:HG23	2.20	0.61
1:6:312:GLN:OE1	1:6:324:THR:OG1	2.19	0.61
1:A:312:GLN:OE1	1:A:324:THR:OG1	2.19	0.61
1:C:244:PHE:CE2	1:C:246:PRO:CB	2.76	0.61
1:C:328:ASN:ND2	1:1:471:ALA:HB2	2.16	0.61
1:D:34:VAL:HG22	1:E:36:HIS:CD2	2.34	0.61
1:D:257:ARG:HG3	1:E:37:SER:H	1.63	0.61
1:D:312:GLN:OE1	1:D:324:THR:OG1	2.19	0.61
1:D:379:TYR:HB2	1:D:392:GLU:HB3	1.82	0.61
1:E:136:ILE:HG22	1:E:520:ALA:HB2	1.82	0.61
1:E:404:GLN:HE22	1:E:443:ASP:N	1.97	0.61
1:F:316:ARG:HA	1:F:419:ASP:HB3	1.83	0.61
1:H:93:GLY:C	1:H:96:THR:HG23	2.20	0.61
1:I:246:PRO:HG2	1:I:249:THR:HG21	1.82	0.61
1:K:328:ASN:ND2	1:0:471:ALA:HB2	2.16	0.61
1:O:34:VAL:HG22	1:3:36:HIS:CD2	2.35	0.61
1:Q:86:PRO:HG3	1:Q:95:ASP:HB2	1.83	0.61
1:V:136:ILE:HG22	1:V:520:ALA:HB2	1.82	0.61
1:V:246:PRO:HG2	1:V:249:THR:HG21	1.82	0.61
1:X:312:GLN:OE1	1:X:324:THR:OG1	2.19	0.61
1:Z:136:ILE:HG22	1:Z:520:ALA:HB2	1.83	0.61
1:Z:312:GLN:OE1	1:Z:324:THR:OG1	2.19	0.61
1:0:312:GLN:OE1	1:0:324:THR:OG1	2.18	0.61
1:1:136:ILE:HG22	1:1:520:ALA:HB2	1.82	0.61
1:a:243:GLN:HG2	1:b:527:GLN:NE2	2.16	0.61
1:b:246:PRO:HG2	1:b:249:THR:HG21	1.83	0.61
1:c:316:ARG:HA	1:c:419:ASP:HB3	1.83	0.61
1:g:130:ILE:HD12	1:g:562:ALA:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:34:VAL:O	1:h:34:VAL:HG12	2.00	0.61
1:h:244:PHE:CE2	1:h:246:PRO:CB	2.76	0.61
1:i:312:GLN:OE1	1:i:324:THR:OG1	2.19	0.61
1:k:86:PRO:HG3	1:k:95:ASP:HB2	1.83	0.61
1:k:471:ALA:HB2	1:m:328:ASN:ND2	2.15	0.61
1:l:247:LEU:O	1:l:248:GLU:CB	2.42	0.61
1:m:34:VAL:HG12	1:m:34:VAL:O	2.00	0.61
1:m:312:GLN:OE1	1:m:324:THR:OG1	2.19	0.61
1:n:37:SER:H	1:z:257:ARG:HG3	1.63	0.61
1:p:136:ILE:HG22	1:p:520:ALA:HB2	1.82	0.61
1:q:312:GLN:OE1	1:q:324:THR:OG1	2.19	0.61
1:q:379:TYR:HB2	1:q:392:GLU:HB3	1.82	0.61
1:t:246:PRO:HG2	1:t:249:THR:HG21	1.82	0.61
1:t:404:GLN:HE22	1:t:443:ASP:N	1.97	0.61
1:v:136:ILE:HG22	1:v:520:ALA:HB2	1.82	0.61
1:y:34:VAL:HG22	1:7:36:HIS:CD2	2.35	0.61
1:z:34:VAL:HG12	1:z:34:VAL:O	2.00	0.61
1:6:246:PRO:HG2	1:6:249:THR:HG21	1.82	0.61
1:7:136:ILE:HG22	1:7:520:ALA:HB2	1.82	0.61
1:A:37:SER:HG	1:E:257:ARG:CG	1.95	0.61
1:G:34:VAL:HG12	1:G:34:VAL:O	2.00	0.61
1:K:312:GLN:OE1	1:K:324:THR:OG1	2.18	0.61
1:M:34:VAL:HG12	1:M:34:VAL:O	2.00	0.61
1:O:86:PRO:HG3	1:O:95:ASP:HB2	1.83	0.61
1:Q:34:VAL:HG12	1:Q:34:VAL:O	2.00	0.61
1:R:34:VAL:HG22	1:V:36:HIS:CD2	2.35	0.61
1:T:136:ILE:HG22	1:T:520:ALA:HB2	1.82	0.61
1:Y:379:TYR:HB2	1:Y:392:GLU:HB3	1.82	0.61
1:Z:379:TYR:HB2	1:Z:392:GLU:HB3	1.82	0.61
1:4:312:GLN:OE1	1:4:324:THR:OG1	2.19	0.61
1:a:379:TYR:HB2	1:a:392:GLU:HB3	1.82	0.61
1:c:191:PHE:CE1	1:c:470:HIS:HE1	2.16	0.61
1:c:471:ALA:HB2	1:e:328:ASN:ND2	2.16	0.61
1:d:34:VAL:O	1:d:34:VAL:HG12	2.00	0.61
1:d:247:LEU:O	1:d:248:GLU:CB	2.42	0.61
1:k:244:PHE:HE2	1:k:246:PRO:HB3	1.63	0.61
1:n:86:PRO:HG3	1:n:95:ASP:HB2	1.83	0.61
1:o:316:ARG:HA	1:o:419:ASP:HB3	1.83	0.61
1:p:312:GLN:OE1	1:p:324:THR:OG1	2.19	0.61
1:t:244:PHE:CE2	1:t:246:PRO:CB	2.76	0.61
1:t:471:ALA:HB2	1:v:328:ASN:ND2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:312:GLN:OE1	1:u:324:THR:OG1	2.19	0.61
1:x:244:PHE:CE2	1:x:246:PRO:CB	2.76	0.61
1:7:246:PRO:HG2	1:7:249:THR:HG21	1.82	0.61
1:A:328:ASN:ND2	1:G:471:ALA:HB2	2.16	0.61
1:B:316:ARG:HA	1:B:419:ASP:HB3	1.83	0.61
1:E:312:GLN:OE1	1:E:324:THR:OG1	2.19	0.61
1:H:528:TRP:CB	1:W:246:PRO:CG	2.65	0.61
1:K:36:HIS:CD2	1:L:34:VAL:HG22	2.35	0.61
1:M:379:TYR:HB2	1:M:392:GLU:HB3	1.82	0.61
1:O:246:PRO:HG2	1:O:249:THR:HG21	1.82	0.61
1:O:471:ALA:HB2	1:h:328:ASN:ND2	2.16	0.61
1:P:36:HIS:CD2	1:Q:34:VAL:HG22	2.35	0.61
1:P:404:GLN:HE22	1:P:443:ASP:H	1.49	0.61
1:Q:312:GLN:OE1	1:Q:324:THR:OG1	2.18	0.61
1:R:379:TYR:HB2	1:R:392:GLU:HB3	1.82	0.61
1:S:34:VAL:HG12	1:S:34:VAL:O	2.00	0.61
1:S:312:GLN:OE1	1:S:324:THR:OG1	2.19	0.61
1:0:34:VAL:HG12	1:0:34:VAL:O	2.00	0.61
1:0:86:PRO:HG3	1:0:95:ASP:HB2	1.83	0.61
1:1:37:SER:H	1:i:257:ARG:HG3	1.64	0.61
1:2:246:PRO:HG2	1:2:249:THR:HG21	1.82	0.61
1:3:86:PRO:HG3	1:3:95:ASP:HB2	1.83	0.61
1:a:316:ARG:HA	1:a:419:ASP:HB3	1.83	0.61
1:e:244:PHE:CE2	1:e:246:PRO:CB	2.76	0.61
1:j:86:PRO:HG3	1:j:95:ASP:HB2	1.83	0.61
1:j:246:PRO:HG2	1:j:249:THR:HG21	1.82	0.61
1:n:34:VAL:HG12	1:n:34:VAL:O	2.00	0.61
1:p:37:SER:H	1:q:257:ARG:HG3	1.63	0.61
1:q:528:TRP:CB	1:r:246:PRO:CG	2.65	0.61
1:r:191:PHE:CE1	1:r:470:HIS:HE1	2.16	0.61
1:s:114:ALA:HB1	1:s:120:TRP:HE1	1.63	0.61
1:G:328:ASN:ND2	1:I:471:ALA:HB2	2.16	0.60
1:H:98:ASN:CB	1:Y:316:ARG:HH22	1.92	0.60
1:J:86:PRO:HG3	1:J:95:ASP:HB2	1.83	0.60
1:J:328:ASN:ND2	1:L:471:ALA:HB2	2.16	0.60
1:K:246:PRO:HG2	1:K:249:THR:HG21	1.82	0.60
1:L:316:ARG:HA	1:L:419:ASP:HB3	1.83	0.60
1:R:246:PRO:HG2	1:R:249:THR:HG21	1.82	0.60
1:V:316:ARG:HA	1:V:419:ASP:HB3	1.83	0.60
1:X:34:VAL:O	1:X:34:VAL:HG12	2.00	0.60
1:X:86:PRO:HG3	1:X:95:ASP:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:246:PRO:HG2	1:3:249:THR:HG21	1.82	0.60
1:5:316:ARG:HA	1:5:419:ASP:HB3	1.83	0.60
1:a:339:GLN:HE22	1:b:435:THR:HG21	1.65	0.60
1:b:316:ARG:HA	1:b:419:ASP:HB3	1.83	0.60
1:d:379:TYR:HB2	1:d:392:GLU:HB3	1.82	0.60
1:e:191:PHE:CE1	1:e:470:HIS:HE1	2.16	0.60
1:f:246:PRO:HG2	1:f:249:THR:HG21	1.83	0.60
1:g:36:HIS:CD2	1:m:34:VAL:HG22	2.34	0.60
1:k:246:PRO:HG2	1:k:249:THR:HG21	1.82	0.60
1:n:34:VAL:HG22	1:s:36:HIS:CD2	2.35	0.60
1:n:247:LEU:O	1:n:248:GLU:CB	2.42	0.60
1:p:379:TYR:HB2	1:p:392:GLU:HB3	1.82	0.60
1:x:136:ILE:HG22	1:x:520:ALA:HB2	1.82	0.60
1:A:380:ASP:OD1	1:A:391:ARG:NH2	2.30	0.60
1:B:379:TYR:HB2	1:B:392:GLU:HB3	1.82	0.60
1:C:191:PHE:CE1	1:C:470:HIS:HE1	2.16	0.60
1:D:316:ARG:HA	1:D:419:ASP:HB3	1.83	0.60
1:D:328:ASN:ND2	1:N:471:ALA:HB2	2.16	0.60
1:F:86:PRO:HG3	1:F:95:ASP:HB2	1.83	0.60
1:F:312:GLN:OE1	1:F:324:THR:OG1	2.19	0.60
1:H:136:ILE:HG22	1:H:520:ALA:HB2	1.83	0.60
1:I:244:PHE:CE2	1:I:246:PRO:CB	2.76	0.60
1:J:316:ARG:HA	1:J:419:ASP:HB3	1.83	0.60
1:K:34:VAL:HG12	1:K:34:VAL:O	2.00	0.60
1:N:328:ASN:ND2	1:P:471:ALA:HB2	2.16	0.60
1:O:379:TYR:HB2	1:O:392:GLU:HB3	1.82	0.60
1:P:114:ALA:HB1	1:P:120:TRP:HE1	1.63	0.60
1:P:191:PHE:CE1	1:P:470:HIS:HE1	2.16	0.60
1:S:86:PRO:HG3	1:S:95:ASP:HB2	1.83	0.60
1:V:379:TYR:HB2	1:V:392:GLU:HB3	1.82	0.60
1:1:191:PHE:CE1	1:1:470:HIS:HE1	2.16	0.60
1:2:316:ARG:HA	1:2:419:ASP:HB3	1.83	0.60
1:4:246:PRO:HG2	1:4:249:THR:HG21	1.82	0.60
1:4:404:GLN:HE22	1:4:443:ASP:H	1.49	0.60
1:5:406:ASP:CG	1:b:341:HIS:HE2	2.10	0.60
1:e:379:TYR:HB2	1:e:392:GLU:HB3	1.82	0.60
1:f:316:ARG:HA	1:f:419:ASP:HB3	1.83	0.60
1:g:316:ARG:HA	1:g:419:ASP:HB3	1.83	0.60
1:l:316:ARG:HA	1:l:419:ASP:HB3	1.83	0.60
1:n:312:GLN:OE1	1:n:324:THR:OG1	2.19	0.60
1:n:404:GLN:HE22	1:n:443:ASP:H	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:312:GLN:OE1	1:o:324:THR:OG1	2.19	0.60
1:s:246:PRO:HG2	1:s:249:THR:HG21	1.82	0.60
1:t:328:ASN:ND2	1:u:471:ALA:HB2	2.16	0.60
1:y:379:TYR:HB2	1:y:392:GLU:HB3	1.82	0.60
1:z:312:GLN:OE1	1:z:324:THR:OG1	2.19	0.60
1:z:316:ARG:HA	1:z:419:ASP:HB3	1.83	0.60
1:7:379:TYR:HB2	1:7:392:GLU:HB3	1.82	0.60
1:7:380:ASP:OD1	1:7:391:ARG:NH2	2.30	0.60
1:C:379:TYR:HB2	1:C:392:GLU:HB3	1.82	0.60
1:E:379:TYR:HB2	1:E:392:GLU:HB3	1.82	0.60
1:G:86:PRO:HG3	1:G:95:ASP:HB2	1.83	0.60
1:H:244:PHE:CE2	1:H:246:PRO:CB	2.76	0.60
1:L:136:ILE:HG22	1:L:520:ALA:HB2	1.82	0.60
1:L:186:TRP:NE1	1:L:188:ALA:O	2.35	0.60
1:M:246:PRO:HG2	1:M:249:THR:HG21	1.82	0.60
1:N:191:PHE:CE1	1:N:470:HIS:HE1	2.16	0.60
1:O:244:PHE:HE2	1:O:246:PRO:HB3	1.63	0.60
1:P:246:PRO:HG2	1:P:249:THR:HG21	1.82	0.60
1:Q:186:TRP:NE1	1:Q:188:ALA:O	2.35	0.60
1:Q:404:GLN:HE22	1:Q:443:ASP:H	1.50	0.60
1:R:184:MET:HG3	1:R:483:PHE:HE2	1.67	0.60
1:U:34:VAL:HG12	1:U:34:VAL:O	2.00	0.60
1:V:328:ASN:ND2	1:4:471:ALA:HB2	2.16	0.60
1:W:34:VAL:HG12	1:W:34:VAL:O	2.00	0.60
1:W:404:GLN:HE22	1:W:443:ASP:H	1.49	0.60
1:Y:184:MET:HG3	1:Y:483:PHE:HE2	1.67	0.60
1:Z:184:MET:HG3	1:Z:483:PHE:HE2	1.67	0.60
1:Z:316:ARG:HH22	1:x:98:ASN:CB	1.92	0.60
1:1:244:PHE:HE2	1:1:246:PRO:HB3	1.63	0.60
1:3:404:GLN:HE22	1:3:443:ASP:H	1.50	0.60
1:5:86:PRO:HG3	1:5:95:ASP:HB2	1.83	0.60
1:b:186:TRP:NE1	1:b:188:ALA:O	2.35	0.60
1:c:186:TRP:NE1	1:c:188:ALA:O	2.35	0.60
1:f:34:VAL:HG12	1:f:34:VAL:O	2.00	0.60
1:l:136:ILE:HG22	1:l:520:ALA:HB2	1.82	0.60
1:l:186:TRP:NE1	1:l:188:ALA:O	2.35	0.60
1:n:186:TRP:NE1	1:n:188:ALA:O	2.35	0.60
1:o:86:PRO:HG3	1:o:95:ASP:HB2	1.83	0.60
1:p:186:TRP:NE1	1:p:188:ALA:O	2.35	0.60
1:p:404:GLN:HE22	1:p:443:ASP:H	1.49	0.60
1:q:316:ARG:HA	1:q:419:ASP:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:328:ASN:ND2	1:r:471:ALA:HB2	2.16	0.60
1:v:34:VAL:HG12	1:v:34:VAL:O	2.00	0.60
1:y:136:ILE:HG22	1:y:520:ALA:HB2	1.82	0.60
1:y:184:MET:HG3	1:y:483:PHE:HE2	1.67	0.60
1:y:246:PRO:HG2	1:y:249:THR:HG21	1.82	0.60
1:z:86:PRO:HG3	1:z:95:ASP:HB2	1.83	0.60
1:6:34:VAL:HG12	1:6:34:VAL:O	2.00	0.60
1:7:316:ARG:HA	1:7:419:ASP:HB3	1.83	0.60
1:A:86:PRO:HG3	1:A:95:ASP:HB2	1.83	0.60
1:C:136:ILE:HG22	1:C:520:ALA:HB2	1.82	0.60
1:E:186:TRP:NE1	1:E:188:ALA:O	2.35	0.60
1:E:404:GLN:HE22	1:E:443:ASP:H	1.50	0.60
1:F:186:TRP:NE1	1:F:188:ALA:O	2.35	0.60
1:F:246:PRO:HG2	1:F:249:THR:HG21	1.82	0.60
1:H:191:PHE:CE1	1:H:470:HIS:HE1	2.16	0.60
1:I:312:GLN:OE1	1:I:324:THR:OG1	2.19	0.60
1:I:379:TYR:HB2	1:I:392:GLU:HB3	1.82	0.60
1:J:34:VAL:HG12	1:J:34:VAL:O	2.00	0.60
1:K:404:GLN:HE22	1:K:443:ASP:H	1.50	0.60
1:O:184:MET:HG3	1:O:483:PHE:HE2	1.66	0.60
1:Q:247:LEU:O	1:Q:248:GLU:CB	2.42	0.60
1:R:186:TRP:NE1	1:R:188:ALA:O	2.35	0.60
1:S:184:MET:HG3	1:S:483:PHE:HE2	1.67	0.60
1:S:316:ARG:HA	1:S:419:ASP:HB3	1.83	0.60
1:T:404:GLN:HE22	1:T:443:ASP:H	1.50	0.60
1:V:184:MET:HG3	1:V:483:PHE:HE2	1.67	0.60
1:Y:404:GLN:HE22	1:Y:443:ASP:H	1.50	0.60
1:Z:404:GLN:HE22	1:Z:443:ASP:H	1.50	0.60
1:1:186:TRP:NE1	1:1:188:ALA:O	2.35	0.60
1:2:186:TRP:NE1	1:2:188:ALA:O	2.35	0.60
1:4:34:VAL:HG12	1:4:34:VAL:O	2.00	0.60
1:5:34:VAL:O	1:5:34:VAL:HG12	2.00	0.60
1:5:380:ASP:OD1	1:5:391:ARG:NH2	2.30	0.60
1:b:136:ILE:HG22	1:b:520:ALA:HB2	1.82	0.60
1:d:246:PRO:HG2	1:d:249:THR:HG21	1.82	0.60
1:g:136:ILE:HG22	1:g:520:ALA:HB2	1.82	0.60
1:g:186:TRP:NE1	1:g:188:ALA:O	2.35	0.60
1:g:379:TYR:HB2	1:g:392:GLU:HB3	1.82	0.60
1:h:136:ILE:HG22	1:h:520:ALA:HB2	1.82	0.60
1:i:244:PHE:CE2	1:i:246:PRO:CB	2.76	0.60
1:k:37:SER:H	1:s:257:ARG:HG3	1.63	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:184:MET:HG3	1:k:483:PHE:HE2	1.67	0.60
1:k:379:TYR:HB2	1:k:392:GLU:HB3	1.82	0.60
1:l:379:TYR:HB2	1:l:392:GLU:HB3	1.82	0.60
1:n:328:ASN:ND2	1:o:471:ALA:HB2	2.16	0.60
1:o:186:TRP:NE1	1:o:188:ALA:O	2.35	0.60
1:r:328:ASN:ND2	1:s:471:ALA:HB2	2.16	0.60
1:s:404:GLN:HE22	1:s:443:ASP:H	1.50	0.60
1:u:316:ARG:HA	1:u:419:ASP:HB3	1.83	0.60
1:w:404:GLN:HE22	1:w:443:ASP:H	1.49	0.60
1:x:191:PHE:CE1	1:x:470:HIS:HE1	2.16	0.60
1:y:186:TRP:NE1	1:y:188:ALA:O	2.35	0.60
1:z:184:MET:HG3	1:z:483:PHE:HE2	1.67	0.60
1:z:186:TRP:NE1	1:z:188:ALA:O	2.35	0.60
1:A:186:TRP:NE1	1:A:188:ALA:O	2.35	0.60
1:A:316:ARG:HA	1:A:419:ASP:HB3	1.83	0.60
1:A:471:ALA:HB2	1:I:328:ASN:ND2	2.16	0.60
1:B:34:VAL:HG12	1:B:34:VAL:O	2.00	0.60
1:B:328:ASN:ND2	1:J:471:ALA:HB2	2.15	0.60
1:D:186:TRP:NE1	1:D:188:ALA:O	2.35	0.60
1:F:471:ALA:HB2	1:Q:328:ASN:ND2	2.16	0.60
1:G:404:GLN:HE22	1:G:443:ASP:H	1.49	0.60
1:J:186:TRP:NE1	1:J:188:ALA:O	2.35	0.60
1:K:471:ALA:HB2	1:7:328:ASN:ND2	2.16	0.60
1:L:534:PRO:HD3	1:L:563:MET:HE2	1.84	0.60
1:P:184:MET:HG3	1:P:483:PHE:HE2	1.67	0.60
1:R:136:ILE:HG22	1:R:520:ALA:HB2	1.82	0.60
1:S:186:TRP:NE1	1:S:188:ALA:O	2.35	0.60
1:U:404:GLN:HE22	1:U:443:ASP:H	1.49	0.60
1:V:380:ASP:OD1	1:V:391:ARG:NH2	2.30	0.60
1:2:34:VAL:HG12	1:2:34:VAL:O	2.00	0.60
1:3:191:PHE:CE1	1:3:470:HIS:HE1	2.16	0.60
1:3:312:GLN:OE1	1:3:324:THR:OG1	2.19	0.60
1:5:186:TRP:NE1	1:5:188:ALA:O	2.35	0.60
1:5:312:GLN:OE1	1:5:324:THR:OG1	2.19	0.60
1:5:471:ALA:HB2	1:a:328:ASN:ND2	2.15	0.60
1:a:404:GLN:HE22	1:a:443:ASP:H	1.50	0.60
1:c:244:PHE:HE2	1:c:246:PRO:HB3	1.63	0.60
1:d:184:MET:HG3	1:d:483:PHE:HE2	1.66	0.60
1:f:184:MET:HG3	1:f:483:PHE:HE2	1.67	0.60
1:g:246:PRO:HG2	1:g:249:THR:HG21	1.82	0.60
1:j:404:GLN:HE22	1:j:443:ASP:H	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:136:ILE:HG22	1:m:520:ALA:HB2	1.82	0.60
1:p:244:PHE:CE2	1:p:246:PRO:CB	2.76	0.60
1:s:184:MET:HG3	1:s:483:PHE:HE2	1.67	0.60
1:t:379:TYR:HB2	1:t:392:GLU:HB3	1.82	0.60
1:u:86:PRO:HG3	1:u:95:ASP:HB2	1.83	0.60
1:u:186:TRP:NE1	1:u:188:ALA:O	2.35	0.60
1:v:86:PRO:HG3	1:v:95:ASP:HB2	1.83	0.60
1:v:404:GLN:HE22	1:v:443:ASP:H	1.50	0.60
1:7:184:MET:HG3	1:7:483:PHE:HE2	1.67	0.60
1:A:34:VAL:O	1:A:34:VAL:HG12	2.00	0.60
1:B:471:ALA:HB2	1:L:328:ASN:ND2	2.16	0.60
1:E:34:VAL:O	1:E:34:VAL:HG12	2.00	0.60
1:G:186:TRP:NE1	1:G:188:ALA:O	2.35	0.60
1:M:186:TRP:NE1	1:M:188:ALA:O	2.35	0.60
1:S:244:PHE:CE2	1:S:246:PRO:CB	2.76	0.60
1:T:186:TRP:NE1	1:T:188:ALA:O	2.35	0.60
1:T:246:PRO:HG2	1:T:249:THR:HG21	1.82	0.60
1:T:328:ASN:ND2	1:3:471:ALA:HB2	2.16	0.60
1:W:328:ASN:ND2	1:Y:471:ALA:HB2	2.16	0.60
1:0:244:PHE:CE2	1:0:246:PRO:CB	2.76	0.60
1:2:184:MET:HG3	1:2:483:PHE:HE2	1.67	0.60
1:2:534:PRO:HD3	1:2:563:MET:HE2	1.84	0.60
1:3:328:ASN:ND2	1:f:471:ALA:HB2	2.15	0.60
1:5:328:ASN:ND2	1:b:471:ALA:HB2	2.17	0.60
1:a:34:VAL:HG12	1:a:34:VAL:O	2.00	0.60
1:b:534:PRO:HD3	1:b:563:MET:HE2	1.84	0.60
1:e:136:ILE:HG22	1:e:520:ALA:HB2	1.82	0.60
1:f:186:TRP:NE1	1:f:188:ALA:O	2.35	0.60
1:f:534:PRO:HD3	1:f:563:MET:HE2	1.84	0.60
1:h:186:TRP:NE1	1:h:188:ALA:O	2.35	0.60
1:i:246:PRO:HG2	1:i:249:THR:HG21	1.82	0.60
1:i:404:GLN:HE22	1:i:443:ASP:H	1.50	0.60
1:m:186:TRP:NE1	1:m:188:ALA:O	2.35	0.60
1:o:246:PRO:HG2	1:o:249:THR:HG21	1.82	0.60
1:q:186:TRP:NE1	1:q:188:ALA:O	2.35	0.60
1:s:191:PHE:CE1	1:s:470:HIS:HE1	2.16	0.60
1:t:312:GLN:OE1	1:t:324:THR:OG1	2.19	0.60
1:t:316:ARG:HA	1:t:419:ASP:HB3	1.83	0.60
1:u:534:PRO:HD3	1:u:563:MET:HE2	1.84	0.60
1:v:186:TRP:NE1	1:v:188:ALA:O	2.35	0.60
1:w:34:VAL:O	1:w:34:VAL:HG12	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:244:PHE:CE2	1:z:246:PRO:CB	2.76	0.60
1:6:404:GLN:HE22	1:6:443:ASP:H	1.49	0.60
1:B:404:GLN:HE22	1:B:443:ASP:H	1.50	0.60
1:C:184:MET:HG3	1:C:483:PHE:HE2	1.67	0.60
1:C:316:ARG:HA	1:C:419:ASP:HB3	1.83	0.60
1:D:534:PRO:HD3	1:D:563:MET:HE2	1.84	0.60
1:E:244:PHE:CE2	1:E:246:PRO:CB	2.76	0.60
1:H:534:PRO:HD3	1:H:563:MET:HE2	1.84	0.60
1:I:316:ARG:HA	1:I:419:ASP:HB3	1.83	0.60
1:J:312:GLN:OE1	1:J:324:THR:OG1	2.19	0.60
1:K:316:ARG:HH21	1:0:98:ASN:HB2	1.67	0.60
1:O:316:ARG:HA	1:O:419:ASP:HB3	1.83	0.60
1:X:244:PHE:CE2	1:X:246:PRO:CB	2.76	0.60
1:3:534:PRO:HD3	1:3:563:MET:HE2	1.84	0.60
1:5:246:PRO:HG2	1:5:249:THR:HG21	1.82	0.60
1:c:246:PRO:HG2	1:c:249:THR:HG21	1.82	0.60
1:d:186:TRP:NE1	1:d:188:ALA:O	2.35	0.60
1:e:184:MET:HG3	1:e:483:PHE:HE2	1.66	0.60
1:e:257:ARG:HG3	1:q:37:SER:H	1.64	0.60
1:e:316:ARG:HA	1:e:419:ASP:HB3	1.83	0.60
1:h:276:LEU:O	1:h:561:ARG:N	2.35	0.60
1:i:186:TRP:NE1	1:i:188:ALA:O	2.35	0.60
1:i:328:ASN:ND2	1:j:471:ALA:HB2	2.16	0.60
1:j:247:LEU:O	1:j:248:GLU:CB	2.42	0.60
1:j:534:PRO:HD3	1:j:563:MET:HE2	1.84	0.60
1:k:289:CYS:HB2	1:l:104:LYS:HE2	1.84	0.60
1:k:316:ARG:HA	1:k:419:ASP:HB3	1.83	0.60
1:o:247:LEU:O	1:o:248:GLU:CB	2.42	0.60
1:p:34:VAL:HG12	1:p:34:VAL:O	2.00	0.60
1:q:534:PRO:HD3	1:q:563:MET:HE2	1.84	0.60
1:r:312:GLN:OE1	1:r:324:THR:OG1	2.18	0.60
1:w:109:TRP:HZ3	1:w:485:LYS:HB3	1.67	0.60
1:z:379:TYR:HB2	1:z:392:GLU:HB3	1.82	0.60
1:7:86:PRO:HG3	1:7:95:ASP:HB2	1.83	0.60
1:A:534:PRO:HD3	1:A:563:MET:HE2	1.84	0.60
1:E:276:LEU:O	1:E:561:ARG:N	2.35	0.60
1:F:34:VAL:HG12	1:F:34:VAL:O	2.00	0.60
1:J:246:PRO:HG2	1:J:249:THR:HG21	1.82	0.60
1:M:184:MET:HG3	1:M:483:PHE:HE2	1.67	0.60
1:N:312:GLN:OE1	1:N:324:THR:OG1	2.19	0.60
1:Q:136:ILE:HG22	1:Q:520:ALA:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:184:MET:HG3	1:Q:483:PHE:HE2	1.67	0.60
1:S:276:LEU:O	1:S:561:ARG:N	2.35	0.60
1:T:289:CYS:HB2	1:3:104:LYS:HE2	1.84	0.60
1:T:379:TYR:HB2	1:T:392:GLU:HB3	1.82	0.60
1:U:136:ILE:HG22	1:U:520:ALA:HB2	1.82	0.60
1:V:86:PRO:HG3	1:V:95:ASP:HB2	1.83	0.60
1:V:404:GLN:HE22	1:V:443:ASP:H	1.50	0.60
1:W:109:TRP:HZ3	1:W:485:LYS:HB3	1.67	0.60
1:X:37:SER:H	1:Y:257:ARG:HG3	1.64	0.60
1:Y:316:ARG:HA	1:Y:419:ASP:HB3	1.83	0.60
1:Z:471:ALA:HB2	1:w:328:ASN:ND2	2.16	0.60
1:0:136:ILE:HG22	1:0:520:ALA:HB2	1.83	0.60
1:0:328:ASN:ND2	1:7:471:ALA:HB2	2.16	0.60
1:1:247:LEU:O	1:1:248:GLU:CB	2.42	0.60
1:2:404:GLN:HE22	1:2:443:ASP:H	1.50	0.60
1:4:109:TRP:HZ3	1:4:485:LYS:HB3	1.67	0.60
1:c:34:VAL:HG12	1:c:34:VAL:O	2.00	0.60
1:d:316:ARG:HA	1:d:419:ASP:HB3	1.83	0.60
1:f:404:GLN:HE22	1:f:443:ASP:H	1.50	0.60
1:g:184:MET:HG3	1:g:483:PHE:HE2	1.67	0.60
1:g:534:PRO:HD3	1:g:563:MET:HE2	1.84	0.60
1:i:184:MET:HG3	1:i:483:PHE:HE2	1.67	0.60
1:i:316:ARG:HA	1:i:419:ASP:HB3	1.83	0.60
1:i:380:ASP:OD1	1:i:391:ARG:NH2	2.30	0.60
1:j:191:PHE:CE1	1:j:470:HIS:HE1	2.16	0.60
1:l:184:MET:HG3	1:l:483:PHE:HE2	1.66	0.60
1:l:246:PRO:HG2	1:l:249:THR:HG21	1.82	0.60
1:m:276:LEU:O	1:m:561:ARG:N	2.35	0.60
1:x:534:PRO:HD3	1:x:563:MET:HE2	1.84	0.60
1:6:136:ILE:HG22	1:6:520:ALA:HB2	1.82	0.60
1:A:104:LYS:HE2	1:I:289:CYS:HB2	1.83	0.60
1:C:186:TRP:NE1	1:C:188:ALA:O	2.35	0.60
1:C:276:LEU:O	1:C:561:ARG:N	2.35	0.60
1:D:184:MET:HG3	1:D:483:PHE:HE2	1.66	0.60
1:E:316:ARG:HA	1:E:419:ASP:HB3	1.83	0.60
1:F:184:MET:HG3	1:F:483:PHE:HE2	1.66	0.60
1:H:186:TRP:NE1	1:H:188:ALA:O	2.35	0.60
1:H:404:GLN:HE22	1:H:443:ASP:H	1.49	0.60
1:I:244:PHE:HE2	1:I:246:PRO:HB3	1.63	0.60
1:I:404:GLN:HE22	1:I:443:ASP:H	1.49	0.60
1:K:109:TRP:HZ3	1:K:485:LYS:HB3	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:316:ARG:HA	1:M:419:ASP:HB3	1.83	0.60
1:R:33:GLY:C	1:V:36:HIS:CE1	2.45	0.60
1:R:316:ARG:HA	1:R:419:ASP:HB3	1.83	0.60
1:S:379:TYR:HB2	1:S:392:GLU:HB3	1.82	0.60
1:T:244:PHE:CE2	1:T:246:PRO:CB	2.76	0.60
1:T:534:PRO:HD3	1:T:563:MET:HE2	1.84	0.60
1:U:534:PRO:HD3	1:U:563:MET:HE2	1.84	0.60
1:V:104:LYS:HE2	1:X:289:CYS:HB2	1.84	0.60
1:V:471:ALA:HB2	1:X:328:ASN:ND2	2.16	0.60
1:W:312:GLN:OE1	1:W:324:THR:OG1	2.18	0.60
1:X:136:ILE:HG22	1:X:520:ALA:HB2	1.83	0.60
1:Z:316:ARG:HA	1:Z:419:ASP:HB3	1.83	0.60
1:0:289:CYS:HB2	1:7:104:LYS:HE2	1.84	0.60
1:0:316:ARG:HA	1:0:419:ASP:HB3	1.83	0.60
1:1:34:VAL:O	1:1:34:VAL:HG12	2.00	0.60
1:1:246:PRO:HG2	1:1:249:THR:HG21	1.82	0.60
1:e:276:LEU:O	1:e:561:ARG:N	2.35	0.60
1:e:312:GLN:OE1	1:e:324:THR:OG1	2.19	0.60
1:i:379:TYR:HB2	1:i:392:GLU:HB3	1.82	0.60
1:i:534:PRO:HD3	1:i:563:MET:HE2	1.84	0.60
1:l:534:PRO:HD3	1:l:563:MET:HE2	1.84	0.60
1:m:379:TYR:HB2	1:m:392:GLU:HB3	1.82	0.60
1:n:184:MET:HG3	1:n:483:PHE:HE2	1.67	0.60
1:o:34:VAL:O	1:o:34:VAL:HG12	2.00	0.60
1:o:184:MET:HG3	1:o:483:PHE:HE2	1.67	0.60
1:p:276:LEU:O	1:p:561:ARG:N	2.35	0.60
1:q:184:MET:HG3	1:q:483:PHE:HE2	1.67	0.60
1:t:404:GLN:HE22	1:t:443:ASP:H	1.50	0.60
1:u:34:VAL:HG12	1:u:34:VAL:O	2.00	0.60
1:y:316:ARG:HA	1:y:419:ASP:HB3	1.83	0.60
1:z:276:LEU:O	1:z:561:ARG:N	2.35	0.60
1:6:186:TRP:NE1	1:6:188:ALA:O	2.35	0.60
1:6:534:PRO:HD3	1:6:563:MET:HE2	1.84	0.60
1:7:404:GLN:HE22	1:7:443:ASP:H	1.50	0.60
1:C:257:ARG:HG3	1:D:37:SER:H	1.64	0.60
1:C:312:GLN:OE1	1:C:324:THR:OG1	2.19	0.60
1:D:104:LYS:HE2	1:P:289:CYS:HB2	1.84	0.60
1:E:86:PRO:HG3	1:E:95:ASP:HB2	1.83	0.60
1:F:37:SER:H	1:G:257:ARG:HG3	1.64	0.60
1:F:247:LEU:O	1:F:248:GLU:CB	2.42	0.60
1:F:379:TYR:HB2	1:F:392:GLU:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:104:LYS:HE2	1:Y:289:CYS:HB2	1.84	0.60
1:O:289:CYS:HB2	1:g:104:LYS:HE2	1.84	0.60
1:P:186:TRP:NE1	1:P:188:ALA:O	2.35	0.60
1:P:316:ARG:HA	1:P:419:ASP:HB3	1.83	0.60
1:T:184:MET:HG3	1:T:483:PHE:HE2	1.67	0.60
1:T:316:ARG:HA	1:T:419:ASP:HB3	1.83	0.60
1:U:186:TRP:NE1	1:U:188:ALA:O	2.35	0.60
1:X:98:ASN:HB2	1:4:316:ARG:HH21	1.67	0.60
1:X:247:LEU:O	1:X:248:GLU:CB	2.42	0.60
1:X:316:ARG:HA	1:X:419:ASP:HB3	1.83	0.60
1:Y:534:PRO:HD3	1:Y:563:MET:HE2	1.84	0.60
1:2:191:PHE:CE1	1:2:470:HIS:HE1	2.16	0.60
1:2:471:ALA:HB2	1:j:328:ASN:ND2	2.16	0.60
1:a:186:TRP:NE1	1:a:188:ALA:O	2.35	0.60
1:c:104:LYS:HE2	1:e:289:CYS:HB2	1.84	0.60
1:d:404:GLN:HE22	1:d:443:ASP:H	1.50	0.60
1:e:186:TRP:NE1	1:e:188:ALA:O	2.35	0.60
1:g:289:CYS:HB2	1:h:104:LYS:HE2	1.84	0.60
1:h:184:MET:HG3	1:h:483:PHE:HE2	1.66	0.60
1:h:379:TYR:HB2	1:h:392:GLU:HB3	1.82	0.60
1:i:289:CYS:HB2	1:j:104:LYS:HE2	1.84	0.60
1:l:289:CYS:HB2	1:m:104:LYS:HE2	1.84	0.60
1:l:316:ARG:HH21	1:m:98:ASN:HB2	1.67	0.60
1:n:136:ILE:HG22	1:n:520:ALA:HB2	1.82	0.60
1:o:37:SER:H	1:v:257:ARG:HG3	1.64	0.60
1:o:379:TYR:HB2	1:o:392:GLU:HB3	1.82	0.60
1:p:316:ARG:HA	1:p:419:ASP:HB3	1.83	0.60
1:q:104:LYS:HE2	1:s:289:CYS:HB2	1.84	0.60
1:s:186:TRP:NE1	1:s:188:ALA:O	2.35	0.60
1:t:186:TRP:NE1	1:t:188:ALA:O	2.35	0.60
1:y:86:PRO:HG3	1:y:95:ASP:HB2	1.83	0.60
1:y:104:LYS:HE2	1:6:289:CYS:HB2	1.84	0.60
1:y:289:CYS:HB2	1:z:104:LYS:HE2	1.84	0.60
1:B:186:TRP:NE1	1:B:188:ALA:O	2.35	0.59
1:C:534:PRO:HD3	1:C:563:MET:HE2	1.84	0.59
1:D:284:ARG:HG2	1:D:284:ARG:O	2.02	0.59
1:I:186:TRP:NE1	1:I:188:ALA:O	2.35	0.59
1:M:104:LYS:HE2	1:1:289:CYS:HB2	1.85	0.59
1:N:289:CYS:HB2	1:P:104:LYS:HE2	1.84	0.59
1:R:86:PRO:HG3	1:R:95:ASP:HB2	1.83	0.59
1:R:104:LYS:HE2	1:U:289:CYS:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:289:CYS:HB2	1:S:104:LYS:HE2	1.84	0.59
1:T:380:ASP:OD1	1:T:391:ARG:NH2	2.30	0.59
1:U:86:PRO:HG3	1:U:95:ASP:HB2	1.83	0.59
1:U:316:ARG:HA	1:U:419:ASP:HB3	1.83	0.59
1:Z:109:TRP:HZ3	1:Z:485:LYS:HB3	1.67	0.59
1:Z:257:ARG:HG3	1:0:37:SER:H	1.64	0.59
1:Z:289:CYS:HB2	1:x:104:LYS:HE2	1.84	0.59
1:3:247:LEU:O	1:3:248:GLU:CB	2.42	0.59
1:a:37:SER:H	1:u:257:ARG:HG3	1.64	0.59
1:a:184:MET:HG3	1:a:483:PHE:HE2	1.66	0.59
1:g:316:ARG:HH21	1:h:98:ASN:HB2	1.67	0.59
1:t:244:PHE:HE2	1:t:246:PRO:HB3	1.63	0.59
1:v:316:ARG:HA	1:v:419:ASP:HB3	1.83	0.59
1:w:380:ASP:OD1	1:w:391:ARG:NH2	2.30	0.59
1:x:186:TRP:NE1	1:x:188:ALA:O	2.35	0.59
1:x:404:GLN:HE22	1:x:443:ASP:H	1.49	0.59
1:y:33:GLY:C	1:7:36:HIS:CE1	2.45	0.59
1:B:184:MET:HG3	1:B:483:PHE:HE2	1.66	0.59
1:B:244:PHE:HE2	1:B:246:PRO:HB3	1.63	0.59
1:B:246:PRO:HG2	1:B:249:THR:HG21	1.82	0.59
1:C:289:CYS:HB2	1:1:104:LYS:HE2	1.84	0.59
1:G:184:MET:HG3	1:G:483:PHE:HE2	1.67	0.59
1:G:316:ARG:HA	1:G:419:ASP:HB3	1.83	0.59
1:K:276:LEU:O	1:K:561:ARG:N	2.35	0.59
1:K:316:ARG:HA	1:K:419:ASP:HB3	1.83	0.59
1:K:534:PRO:HD3	1:K:563:MET:HE2	1.84	0.59
1:O:186:TRP:NE1	1:O:188:ALA:O	2.35	0.59
1:U:284:ARG:O	1:U:284:ARG:HG2	2.02	0.59
1:W:186:TRP:NE1	1:W:188:ALA:O	2.35	0.59
1:W:246:PRO:HG2	1:W:249:THR:HG21	1.82	0.59
1:X:184:MET:HG3	1:X:483:PHE:HE2	1.67	0.59
1:Y:109:TRP:HZ3	1:Y:485:LYS:HB3	1.67	0.59
1:Z:534:PRO:HD3	1:Z:563:MET:HE2	1.84	0.59
1:2:86:PRO:HG3	1:2:95:ASP:HB2	1.83	0.59
1:3:186:TRP:NE1	1:3:188:ALA:O	2.35	0.59
1:3:284:ARG:HG2	1:3:284:ARG:O	2.02	0.59
1:4:534:PRO:HD3	1:4:563:MET:HE2	1.84	0.59
1:c:247:LEU:O	1:c:248:GLU:CB	2.42	0.59
1:c:289:CYS:HB2	1:d:104:LYS:HE2	1.85	0.59
1:f:86:PRO:HG3	1:f:95:ASP:HB2	1.83	0.59
1:f:191:PHE:CE1	1:f:470:HIS:HE1	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:284:ARG:HG2	1:j:284:ARG:O	2.02	0.59
1:j:312:GLN:OE1	1:j:324:THR:OG1	2.19	0.59
1:m:184:MET:HG3	1:m:483:PHE:HE2	1.67	0.59
1:p:86:PRO:HG3	1:p:95:ASP:HB2	1.83	0.59
1:q:284:ARG:HG2	1:q:284:ARG:O	2.02	0.59
1:r:289:CYS:HB2	1:s:104:LYS:HE2	1.84	0.59
1:s:316:ARG:HA	1:s:419:ASP:HB3	1.83	0.59
1:w:86:PRO:HG3	1:w:95:ASP:HB2	1.83	0.59
1:w:312:GLN:OE1	1:w:324:THR:OG1	2.19	0.59
1:6:284:ARG:O	1:6:284:ARG:HG2	2.02	0.59
1:7:244:PHE:CE2	1:7:246:PRO:CB	2.76	0.59
1:G:276:LEU:O	1:G:561:ARG:N	2.35	0.59
1:G:534:PRO:HD3	1:G:563:MET:HE2	1.84	0.59
1:H:257:ARG:CG	1:Z:37:SER:HG	1.94	0.59
1:K:289:CYS:HB2	1:0:104:LYS:HE2	1.84	0.59
1:M:86:PRO:HG3	1:M:95:ASP:HB2	1.83	0.59
1:O:191:PHE:CE1	1:O:470:HIS:HE1	2.16	0.59
1:W:86:PRO:HG3	1:W:95:ASP:HB2	1.83	0.59
1:Y:186:TRP:NE1	1:Y:188:ALA:O	2.35	0.59
1:Y:380:ASP:OD1	1:Y:391:ARG:NH2	2.30	0.59
1:Z:186:TRP:NE1	1:Z:188:ALA:O	2.35	0.59
1:0:184:MET:HG3	1:0:483:PHE:HE2	1.67	0.59
1:3:316:ARG:HA	1:3:419:ASP:HB3	1.83	0.59
1:a:246:PRO:HG2	1:a:249:THR:HG21	1.82	0.59
1:b:35:GLY:C	1:c:257:ARG:HD3	2.14	0.59
1:d:86:PRO:HG3	1:d:95:ASP:HB2	1.83	0.59
1:e:534:PRO:HD3	1:e:563:MET:HE2	1.84	0.59
1:j:184:MET:HG3	1:j:483:PHE:HE2	1.67	0.59
1:j:316:ARG:HA	1:j:419:ASP:HB3	1.83	0.59
1:k:186:TRP:NE1	1:k:188:ALA:O	2.35	0.59
1:m:534:PRO:HD3	1:m:563:MET:HE2	1.84	0.59
1:o:404:GLN:HE22	1:o:443:ASP:H	1.50	0.59
1:p:380:ASP:OD1	1:p:391:ARG:NH2	2.30	0.59
1:t:70:ASP:OD1	1:t:71:MET:N	2.36	0.59
1:t:284:ARG:O	1:t:284:ARG:HG2	2.02	0.59
1:t:534:PRO:HD3	1:t:563:MET:HE2	1.84	0.59
1:v:184:MET:HG3	1:v:483:PHE:HE2	1.67	0.59
1:v:276:LEU:O	1:v:561:ARG:N	2.35	0.59
1:w:186:TRP:NE1	1:w:188:ALA:O	2.35	0.59
1:w:246:PRO:HG2	1:w:249:THR:HG21	1.82	0.59
1:x:276:LEU:O	1:x:561:ARG:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:86:PRO:HG3	1:6:95:ASP:HB2	1.83	0.59
1:6:316:ARG:HA	1:6:419:ASP:HB3	1.83	0.59
1:6:380:ASP:OD1	1:6:391:ARG:NH2	2.30	0.59
1:7:186:TRP:NE1	1:7:188:ALA:O	2.35	0.59
1:C:335:TRP:CG	1:C:336:PRO:HD2	2.38	0.59
1:F:98:ASN:HB2	1:Q:316:ARG:HH21	1.67	0.59
1:G:312:GLN:OE1	1:G:324:THR:OG1	2.19	0.59
1:H:276:LEU:O	1:H:561:ARG:N	2.35	0.59
1:I:70:ASP:OD1	1:I:71:MET:N	2.36	0.59
1:I:335:TRP:CG	1:I:336:PRO:HD2	2.38	0.59
1:I:534:PRO:HD3	1:I:563:MET:HE2	1.84	0.59
1:J:534:PRO:HD3	1:J:563:MET:HE2	1.84	0.59
1:M:404:GLN:HE22	1:M:443:ASP:H	1.50	0.59
1:O:312:GLN:OE1	1:O:324:THR:OG1	2.19	0.59
1:P:284:ARG:HG2	1:P:284:ARG:O	2.02	0.59
1:P:312:GLN:OE1	1:P:324:THR:OG1	2.19	0.59
1:Q:276:LEU:O	1:Q:561:ARG:N	2.35	0.59
1:U:380:ASP:OD1	1:U:391:ARG:NH2	2.30	0.59
1:V:186:TRP:NE1	1:V:188:ALA:O	2.35	0.59
1:V:191:PHE:CE1	1:V:470:HIS:HE1	2.16	0.59
1:V:244:PHE:CE2	1:V:246:PRO:CB	2.76	0.59
1:W:380:ASP:OD1	1:W:391:ARG:NH2	2.30	0.59
1:X:104:LYS:HE2	1:4:289:CYS:HB2	1.84	0.59
1:Z:246:PRO:HG2	1:Z:249:THR:HG21	1.82	0.59
1:0:247:LEU:O	1:0:248:GLU:CB	2.42	0.59
1:1:404:GLN:HE22	1:1:443:ASP:H	1.50	0.59
1:3:70:ASP:OD1	1:3:71:MET:N	2.36	0.59
1:4:316:ARG:HA	1:4:419:ASP:HB3	1.83	0.59
1:b:86:PRO:HG3	1:b:95:ASP:HB2	1.83	0.59
1:c:379:TYR:HB2	1:c:392:GLU:HB3	1.82	0.59
1:e:335:TRP:CG	1:e:336:PRO:HD2	2.38	0.59
1:h:534:PRO:HD3	1:h:563:MET:HE2	1.84	0.59
1:j:186:TRP:NE1	1:j:188:ALA:O	2.35	0.59
1:k:191:PHE:CE1	1:k:470:HIS:HE1	2.16	0.59
1:k:312:GLN:OE1	1:k:324:THR:OG1	2.18	0.59
1:l:191:PHE:CE1	1:l:470:HIS:HE1	2.16	0.59
1:n:276:LEU:O	1:n:561:ARG:N	2.35	0.59
1:n:316:ARG:HH21	1:o:98:ASN:HB2	1.67	0.59
1:o:191:PHE:CE1	1:o:470:HIS:HE1	2.16	0.59
1:p:184:MET:HG3	1:p:483:PHE:HE2	1.67	0.59
1:r:404:GLN:HE22	1:r:443:ASP:H	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:335:TRP:CG	1:t:336:PRO:HD2	2.38	0.59
1:v:312:GLN:OE1	1:v:324:THR:OG1	2.19	0.59
1:v:534:PRO:HD3	1:v:563:MET:HE2	1.84	0.59
1:y:534:PRO:HD3	1:y:563:MET:HE2	1.84	0.59
1:z:284:ARG:HG2	1:z:284:ARG:O	2.02	0.59
1:6:191:PHE:CE1	1:6:470:HIS:HE1	2.16	0.59
1:E:184:MET:HG3	1:E:483:PHE:HE2	1.67	0.59
1:E:380:ASP:OD1	1:E:391:ARG:NH2	2.30	0.59
1:F:404:GLN:HE22	1:F:443:ASP:H	1.50	0.59
1:F:534:PRO:HD3	1:F:563:MET:HE2	1.84	0.59
1:I:284:ARG:O	1:I:284:ARG:HG2	2.02	0.59
1:P:335:TRP:CG	1:P:336:PRO:HD2	2.38	0.59
1:R:284:ARG:HG2	1:R:284:ARG:O	2.02	0.59
1:R:534:PRO:HD3	1:R:563:MET:HE2	1.84	0.59
1:T:104:LYS:HE2	1:f:289:CYS:HB2	1.84	0.59
1:V:34:VAL:HG12	1:V:34:VAL:O	2.00	0.59
1:X:284:ARG:HG2	1:X:284:ARG:O	2.02	0.59
1:Y:246:PRO:HG2	1:Y:249:THR:HG21	1.82	0.59
1:1:276:LEU:O	1:1:561:ARG:N	2.35	0.59
1:3:184:MET:HG3	1:3:483:PHE:HE2	1.67	0.59
1:4:276:LEU:O	1:4:561:ARG:N	2.35	0.59
1:5:404:GLN:HE22	1:5:443:ASP:H	1.49	0.59
1:b:404:GLN:HE22	1:b:443:ASP:H	1.49	0.59
1:c:335:TRP:CG	1:c:336:PRO:HD2	2.38	0.59
1:g:244:PHE:CE2	1:g:246:PRO:CB	2.76	0.59
1:h:86:PRO:HG3	1:h:95:ASP:HB2	1.83	0.59
1:j:70:ASP:OD1	1:j:71:MET:N	2.36	0.59
1:s:312:GLN:OE1	1:s:324:THR:OG1	2.19	0.59
1:w:534:PRO:HD3	1:w:563:MET:HE2	1.84	0.59
1:x:316:ARG:HA	1:x:419:ASP:HB3	1.83	0.59
1:y:404:GLN:HE22	1:y:443:ASP:H	1.50	0.59
1:6:70:ASP:OD1	1:6:71:MET:N	2.36	0.59
1:6:184:MET:HG3	1:6:483:PHE:HE2	1.67	0.59
1:7:191:PHE:CE1	1:7:470:HIS:HE1	2.16	0.59
1:A:98:ASN:HB2	1:I:316:ARG:HH21	1.67	0.59
1:A:527:GLN:NE2	1:G:243:GLN:HG2	2.18	0.59
1:E:109:TRP:HZ3	1:E:485:LYS:HB3	1.67	0.59
1:F:191:PHE:CE1	1:F:470:HIS:HE1	2.16	0.59
1:H:316:ARG:HA	1:H:419:ASP:HB3	1.83	0.59
1:J:404:GLN:HE22	1:J:443:ASP:H	1.49	0.59
1:K:316:ARG:HH22	1:0:98:ASN:CB	1.92	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:86:PRO:HG3	1:L:95:ASP:HB2	1.83	0.59
1:N:186:TRP:NE1	1:N:188:ALA:O	2.35	0.59
1:N:404:GLN:HE22	1:N:443:ASP:H	1.50	0.59
1:S:284:ARG:HG2	1:S:284:ARG:O	2.02	0.59
1:S:534:PRO:HD3	1:S:563:MET:HE2	1.84	0.59
1:T:335:TRP:CG	1:T:336:PRO:HD2	2.38	0.59
1:U:70:ASP:OD1	1:U:71:MET:N	2.36	0.59
1:W:316:ARG:HA	1:W:419:ASP:HB3	1.83	0.59
1:W:534:PRO:HD3	1:W:563:MET:HE2	1.84	0.59
1:X:186:TRP:NE1	1:X:188:ALA:O	2.35	0.59
1:Y:276:LEU:O	1:Y:561:ARG:N	2.35	0.59
1:Z:276:LEU:O	1:Z:561:ARG:N	2.35	0.59
1:0:284:ARG:HG2	1:0:284:ARG:O	2.02	0.59
1:1:335:TRP:CG	1:1:336:PRO:HD2	2.38	0.59
1:2:289:CYS:HB2	1:i:104:LYS:HE2	1.84	0.59
1:2:335:TRP:CG	1:2:336:PRO:HD2	2.38	0.59
1:5:534:PRO:HD3	1:5:563:MET:HE2	1.84	0.59
1:a:257:ARG:HG2	1:e:37:SER:CA	2.31	0.59
1:c:276:LEU:O	1:c:561:ARG:N	2.35	0.59
1:c:404:GLN:HE22	1:c:443:ASP:H	1.50	0.59
1:f:335:TRP:CG	1:f:336:PRO:HD2	2.38	0.59
1:g:86:PRO:HG3	1:g:95:ASP:HB2	1.83	0.59
1:g:284:ARG:HG2	1:g:284:ARG:O	2.02	0.59
1:h:316:ARG:HA	1:h:419:ASP:HB3	1.83	0.59
1:i:335:TRP:CG	1:i:336:PRO:HD2	2.38	0.59
1:k:70:ASP:OD1	1:k:71:MET:N	2.36	0.59
1:p:109:TRP:HZ3	1:p:485:LYS:HB3	1.67	0.59
1:r:316:ARG:HA	1:r:419:ASP:HB3	1.83	0.59
1:s:284:ARG:HG2	1:s:284:ARG:O	2.02	0.59
1:s:335:TRP:CG	1:s:336:PRO:HD2	2.38	0.59
1:w:316:ARG:HA	1:w:419:ASP:HB3	1.83	0.59
1:x:70:ASP:OD1	1:x:71:MET:N	2.36	0.59
1:y:284:ARG:HG2	1:y:284:ARG:O	2.02	0.59
1:7:34:VAL:HG12	1:7:34:VAL:O	2.00	0.59
1:A:284:ARG:HG2	1:A:284:ARG:O	2.02	0.59
1:B:312:GLN:OE1	1:B:324:THR:OG1	2.19	0.59
1:D:276:LEU:O	1:D:561:ARG:N	2.35	0.59
1:D:335:TRP:CG	1:D:336:PRO:HD2	2.38	0.59
1:E:98:ASN:CB	1:F:316:ARG:HH22	1.92	0.59
1:H:70:ASP:OD1	1:H:71:MET:N	2.36	0.59
1:I:276:LEU:O	1:I:561:ARG:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:404:GLN:HE22	1:L:443:ASP:H	1.50	0.59
1:N:70:ASP:OD1	1:N:71:MET:N	2.36	0.59
1:N:316:ARG:HA	1:N:419:ASP:HB3	1.83	0.59
1:O:70:ASP:OD1	1:O:71:MET:N	2.36	0.59
1:O:404:GLN:HE22	1:O:443:ASP:H	1.50	0.59
1:P:534:PRO:HD3	1:P:563:MET:HE2	1.84	0.59
1:R:276:LEU:O	1:R:561:ARG:N	2.35	0.59
1:R:404:GLN:HE22	1:R:443:ASP:H	1.50	0.59
1:U:184:MET:HG3	1:U:483:PHE:HE2	1.67	0.59
1:U:191:PHE:CE1	1:U:470:HIS:HE1	2.16	0.59
1:V:148:ILE:HG12	1:V:174:LEU:HD23	1.85	0.59
1:Z:380:ASP:OD1	1:Z:391:ARG:NH2	2.30	0.59
1:0:186:TRP:NE1	1:0:188:ALA:O	2.35	0.59
1:1:379:TYR:HB2	1:1:392:GLU:HB3	1.82	0.59
1:4:86:PRO:HG3	1:4:95:ASP:HB2	1.83	0.59
1:4:186:TRP:NE1	1:4:188:ALA:O	2.35	0.59
1:c:534:PRO:HD3	1:c:563:MET:HE2	1.84	0.59
1:d:534:PRO:HD3	1:d:563:MET:HE2	1.84	0.59
1:g:148:ILE:HG12	1:g:174:LEU:HD23	1.85	0.59
1:j:136:ILE:HG22	1:j:520:ALA:HB2	1.82	0.59
1:j:244:PHE:HE2	1:j:246:PRO:HB3	1.63	0.59
1:l:244:PHE:CE2	1:l:246:PRO:CB	2.76	0.59
1:l:284:ARG:O	1:l:284:ARG:HG2	2.02	0.59
1:m:316:ARG:HA	1:m:419:ASP:HB3	1.83	0.59
1:o:534:PRO:HD3	1:o:563:MET:HE2	1.84	0.59
1:q:276:LEU:O	1:q:561:ARG:N	2.35	0.59
1:r:70:ASP:OD1	1:r:71:MET:N	2.36	0.59
1:r:186:TRP:NE1	1:r:188:ALA:O	2.35	0.59
1:s:380:ASP:OD1	1:s:391:ARG:NH2	2.30	0.59
1:u:70:ASP:OD1	1:u:71:MET:N	2.36	0.59
1:u:284:ARG:HG2	1:u:284:ARG:O	2.02	0.59
1:x:312:GLN:OE1	1:x:324:THR:OG1	2.19	0.59
1:y:276:LEU:O	1:y:561:ARG:N	2.35	0.59
1:z:534:PRO:HD3	1:z:563:MET:HE2	1.84	0.59
1:A:70:ASP:OD1	1:A:71:MET:N	2.36	0.59
1:B:289:CYS:HB2	1:J:104:LYS:HE2	1.85	0.59
1:B:388:GLN:N	1:B:389:GLY:HA2	2.18	0.59
1:H:312:GLN:OE1	1:H:324:THR:OG1	2.19	0.59
1:L:70:ASP:OD1	1:L:71:MET:N	2.36	0.59
1:M:534:PRO:HD3	1:M:563:MET:HE2	1.84	0.59
1:Q:316:ARG:HA	1:Q:419:ASP:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:534:PRO:HD3	1:Q:563:MET:HE2	1.84	0.59
1:T:37:SER:CA	1:U:257:ARG:HG2	2.32	0.59
1:U:37:SER:HG	1:4:257:ARG:CG	1.95	0.59
1:X:98:ASN:CB	1:4:316:ARG:HH22	1.92	0.59
1:Z:284:ARG:HG2	1:Z:284:ARG:O	2.02	0.59
1:5:289:CYS:HB2	1:b:104:LYS:HE2	1.84	0.59
1:a:312:GLN:OE1	1:a:324:THR:OG1	2.19	0.59
1:a:388:GLN:N	1:a:389:GLY:HA2	2.18	0.59
1:c:184:MET:HG3	1:c:483:PHE:HE2	1.66	0.59
1:d:388:GLN:N	1:d:389:GLY:HA2	2.18	0.59
1:g:191:PHE:CE1	1:g:470:HIS:HE1	2.16	0.59
1:g:528:TRP:CB	1:h:246:PRO:CG	2.65	0.59
1:l:86:PRO:HG3	1:l:95:ASP:HB2	1.83	0.59
1:m:86:PRO:HG3	1:m:95:ASP:HB2	1.83	0.59
1:n:534:PRO:HD3	1:n:563:MET:HE2	1.84	0.59
1:o:316:ARG:HH22	1:p:98:ASN:CB	1.92	0.59
1:q:86:PRO:HG3	1:q:95:ASP:HB2	1.83	0.59
1:q:300:GLY:HA2	1:q:301:GLN:CB	2.33	0.59
1:q:335:TRP:CG	1:q:336:PRO:HD2	2.38	0.59
1:s:244:PHE:CE2	1:s:246:PRO:CB	2.76	0.59
1:t:276:LEU:O	1:t:561:ARG:N	2.35	0.59
1:u:276:LEU:O	1:u:561:ARG:N	2.35	0.59
1:x:380:ASP:OD1	1:x:391:ARG:NH2	2.30	0.59
1:y:109:TRP:HZ3	1:y:485:LYS:HB3	1.67	0.59
1:7:148:ILE:HG12	1:7:174:LEU:HD23	1.85	0.59
1:A:37:SER:H	1:E:257:ARG:HG3	1.66	0.59
1:A:276:LEU:O	1:A:561:ARG:N	2.35	0.59
1:B:148:ILE:HG12	1:B:174:LEU:HD23	1.85	0.59
1:B:257:ARG:HG2	1:C:37:SER:CA	2.31	0.59
1:B:276:LEU:O	1:B:561:ARG:N	2.35	0.59
1:C:109:TRP:NE1	1:C:247:LEU:HD23	2.18	0.59
1:D:300:GLY:HA2	1:D:301:GLN:CB	2.33	0.59
1:G:300:GLY:HA2	1:G:301:GLN:CB	2.33	0.59
1:M:109:TRP:NE1	1:M:247:LEU:HD23	2.18	0.59
1:M:276:LEU:O	1:M:561:ARG:N	2.35	0.59
1:M:388:GLN:N	1:M:389:GLY:HA2	2.18	0.59
1:N:276:LEU:O	1:N:561:ARG:N	2.35	0.59
1:P:244:PHE:CE2	1:P:246:PRO:CB	2.76	0.59
1:P:380:ASP:OD1	1:P:391:ARG:NH2	2.30	0.59
1:Q:284:ARG:O	1:Q:284:ARG:HG2	2.02	0.59
1:R:109:TRP:HZ3	1:R:485:LYS:HB3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:300:GLY:HA2	1:V:301:GLN:CB	2.33	0.59
1:X:257:ARG:CG	1:5:37:SER:CB	2.71	0.59
1:Y:284:ARG:O	1:Y:284:ARG:HG2	2.02	0.59
1:Z:335:TRP:CG	1:Z:336:PRO:HD2	2.38	0.59
1:5:257:ARG:N	1:t:37:SER:HG	2.00	0.59
1:a:148:ILE:HG12	1:a:174:LEU:HD23	1.85	0.59
1:b:70:ASP:OD1	1:b:71:MET:N	2.36	0.59
1:d:109:TRP:NE1	1:d:247:LEU:HD23	2.18	0.59
1:i:37:SER:CA	1:6:257:ARG:HG2	2.32	0.59
1:i:148:ILE:HG12	1:i:174:LEU:HD23	1.85	0.59
1:i:388:GLN:N	1:i:389:GLY:HA2	2.18	0.59
1:k:404:GLN:HE22	1:k:443:ASP:H	1.50	0.59
1:l:148:ILE:HG12	1:l:174:LEU:HD23	1.85	0.59
1:n:284:ARG:HG2	1:n:284:ARG:O	2.02	0.59
1:n:380:ASP:OD1	1:n:391:ARG:NH2	2.30	0.59
1:r:276:LEU:O	1:r:561:ARG:N	2.35	0.59
1:s:300:GLY:HA2	1:s:301:GLN:CB	2.33	0.59
1:v:300:GLY:HA2	1:v:301:GLN:CB	2.33	0.59
1:y:98:ASN:HB2	1:6:316:ARG:HH21	1.67	0.59
1:A:148:ILE:HG12	1:A:174:LEU:HD23	1.85	0.59
1:B:109:TRP:HZ3	1:B:485:LYS:HB3	1.67	0.59
1:D:85:PHE:HD1	1:D:99:ASP:HB3	1.68	0.59
1:D:86:PRO:HG3	1:D:95:ASP:HB2	1.83	0.59
1:H:335:TRP:CG	1:H:336:PRO:HD2	2.38	0.59
1:I:59:HIS:HE1	1:I:515:LYS:HZ1	1.49	0.59
1:K:86:PRO:HG3	1:K:95:ASP:HB2	1.83	0.59
1:K:186:TRP:NE1	1:K:188:ALA:O	2.35	0.59
1:L:85:PHE:HD1	1:L:99:ASP:HB3	1.68	0.59
1:P:300:GLY:HA2	1:P:301:GLN:CB	2.33	0.59
1:T:148:ILE:HG12	1:T:174:LEU:HD23	1.85	0.59
1:T:284:ARG:HG2	1:T:284:ARG:O	2.02	0.59
1:T:388:GLN:N	1:T:389:GLY:HA2	2.18	0.59
1:Y:335:TRP:CG	1:Y:336:PRO:HD2	2.38	0.59
1:Z:388:GLN:N	1:Z:389:GLY:HA2	2.18	0.59
1:0:191:PHE:CE1	1:0:470:HIS:HE1	2.16	0.59
1:0:276:LEU:O	1:0:561:ARG:N	2.35	0.59
1:0:388:GLN:N	1:0:389:GLY:HA2	2.18	0.59
1:1:184:MET:HG3	1:1:483:PHE:HE2	1.66	0.59
1:1:534:PRO:HD3	1:1:563:MET:HE2	1.84	0.59
1:3:136:ILE:HG22	1:3:520:ALA:HB2	1.82	0.59
1:b:85:PHE:HD1	1:b:99:ASP:HB3	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:148:ILE:HG12	1:d:174:LEU:HD23	1.85	0.59
1:d:276:LEU:O	1:d:561:ARG:N	2.35	0.59
1:e:109:TRP:NE1	1:e:247:LEU:HD23	2.18	0.59
1:g:244:PHE:HE2	1:g:246:PRO:HB3	1.63	0.59
1:i:284:ARG:HG2	1:i:284:ARG:O	2.02	0.59
1:n:316:ARG:HA	1:n:419:ASP:HB3	1.83	0.59
1:s:534:PRO:HD3	1:s:563:MET:HE2	1.84	0.59
1:t:316:ARG:HH21	1:u:98:ASN:HB2	1.67	0.59
1:u:148:ILE:HG12	1:u:174:LEU:HD23	1.85	0.59
1:x:335:TRP:CG	1:x:336:PRO:HD2	2.38	0.59
1:z:289:CYS:HB2	1:6:104:LYS:HE2	1.85	0.59
1:E:284:ARG:HG2	1:E:284:ARG:O	2.02	0.58
1:F:276:LEU:O	1:F:561:ARG:N	2.35	0.58
1:G:85:PHE:HD1	1:G:99:ASP:HB3	1.68	0.58
1:H:184:MET:HG3	1:H:483:PHE:HE2	1.67	0.58
1:I:85:PHE:HD1	1:I:99:ASP:HB3	1.68	0.58
1:I:184:MET:HG3	1:I:483:PHE:HE2	1.67	0.58
1:J:300:GLY:HA2	1:J:301:GLN:CB	2.33	0.58
1:K:184:MET:HG3	1:K:483:PHE:HE2	1.67	0.58
1:M:148:ILE:HG12	1:M:174:LEU:HD23	1.85	0.58
1:N:85:PHE:HD1	1:N:99:ASP:HB3	1.68	0.58
1:N:380:ASP:OD1	1:N:391:ARG:NH2	2.30	0.58
1:R:98:ASN:HB2	1:U:316:ARG:HH21	1.67	0.58
1:S:289:CYS:HB2	1:U:104:LYS:HE2	1.85	0.58
1:X:404:GLN:HE22	1:X:443:ASP:H	1.50	0.58
1:Y:148:ILE:HG12	1:Y:174:LEU:HD23	1.85	0.58
1:Y:388:GLN:N	1:Y:389:GLY:HA2	2.18	0.58
1:Z:85:PHE:HD1	1:Z:99:ASP:HB3	1.68	0.58
1:Z:104:LYS:HE2	1:w:289:CYS:HB2	1.84	0.58
1:1:85:PHE:HD1	1:1:99:ASP:HB3	1.68	0.58
1:2:59:HIS:HE1	1:2:515:LYS:HZ1	1.51	0.58
1:3:388:GLN:N	1:3:389:GLY:HA2	2.18	0.58
1:4:184:MET:HG3	1:4:483:PHE:HE2	1.67	0.58
1:5:184:MET:HG3	1:5:483:PHE:HE2	1.67	0.58
1:a:109:TRP:HZ3	1:a:485:LYS:HB3	1.67	0.58
1:a:276:LEU:O	1:a:561:ARG:N	2.35	0.58
1:c:85:PHE:HD1	1:c:99:ASP:HB3	1.68	0.58
1:j:388:GLN:N	1:j:389:GLY:HA2	2.18	0.58
1:l:300:GLY:HA2	1:l:301:GLN:CB	2.33	0.58
1:o:276:LEU:O	1:o:561:ARG:N	2.35	0.58
1:r:85:PHE:HD1	1:r:99:ASP:HB3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:244:PHE:HE2	1:s:246:PRO:HB3	1.63	0.58
1:t:85:PHE:HD1	1:t:99:ASP:HB3	1.68	0.58
1:t:289:CYS:HB2	1:u:104:LYS:HE2	1.84	0.58
1:v:148:ILE:HG12	1:v:174:LEU:HD23	1.85	0.58
1:v:284:ARG:HG2	1:v:284:ARG:O	2.02	0.58
1:w:388:GLN:N	1:w:389:GLY:HA2	2.18	0.58
1:z:85:PHE:HD1	1:z:99:ASP:HB3	1.68	0.58
1:D:109:TRP:NE1	1:D:247:LEU:HD23	2.18	0.58
1:E:534:PRO:HD3	1:E:563:MET:HE2	1.84	0.58
1:F:300:GLY:HA2	1:F:301:GLN:CB	2.33	0.58
1:G:109:TRP:NE1	1:G:247:LEU:HD23	2.18	0.58
1:G:148:ILE:HG12	1:G:174:LEU:HD23	1.85	0.58
1:H:380:ASP:OD1	1:H:391:ARG:NH2	2.30	0.58
1:I:109:TRP:HZ3	1:I:485:LYS:HB3	1.67	0.58
1:K:98:ASN:HB2	1:7:316:ARG:HH21	1.67	0.58
1:P:148:ILE:HG12	1:P:174:LEU:HD23	1.85	0.58
1:Q:109:TRP:NE1	1:Q:247:LEU:HD23	2.18	0.58
1:Q:380:ASP:OD1	1:Q:391:ARG:NH2	2.30	0.58
1:R:148:ILE:HG12	1:R:174:LEU:HD23	1.85	0.58
1:S:85:PHE:HD1	1:S:99:ASP:HB3	1.68	0.58
1:W:191:PHE:CE1	1:W:470:HIS:HE1	2.16	0.58
1:W:388:GLN:N	1:W:389:GLY:HA2	2.18	0.58
1:X:276:LEU:O	1:X:561:ARG:N	2.35	0.58
1:X:335:TRP:CG	1:X:336:PRO:HD2	2.38	0.58
1:X:388:GLN:N	1:X:389:GLY:HA2	2.18	0.58
1:Y:85:PHE:HD1	1:Y:99:ASP:HB3	1.68	0.58
1:Z:148:ILE:HG12	1:Z:174:LEU:HD23	1.85	0.58
1:1:388:GLN:N	1:1:389:GLY:HA2	2.18	0.58
1:2:148:ILE:HG12	1:2:174:LEU:HD23	1.85	0.58
1:2:300:GLY:HA2	1:2:301:GLN:CB	2.33	0.58
1:3:85:PHE:HD1	1:3:99:ASP:HB3	1.68	0.58
1:e:388:GLN:N	1:e:389:GLY:HA2	2.18	0.58
1:f:109:TRP:HZ3	1:f:485:LYS:HB3	1.67	0.58
1:f:148:ILE:HG12	1:f:174:LEU:HD23	1.85	0.58
1:j:85:PHE:HD1	1:j:99:ASP:HB3	1.68	0.58
1:k:300:GLY:HA2	1:k:301:GLN:CB	2.33	0.58
1:n:104:LYS:HE2	1:p:289:CYS:HB2	1.84	0.58
1:o:300:GLY:HA2	1:o:301:GLN:CB	2.33	0.58
1:p:284:ARG:O	1:p:284:ARG:HG2	2.02	0.58
1:p:534:PRO:HD3	1:p:563:MET:HE2	1.84	0.58
1:q:70:ASP:OD1	1:q:71:MET:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:85:PHE:HD1	1:q:99:ASP:HB3	1.68	0.58
1:r:86:PRO:HG3	1:r:95:ASP:HB2	1.83	0.58
1:s:148:ILE:HG12	1:s:174:LEU:HD23	1.85	0.58
1:s:388:GLN:N	1:s:389:GLY:HA2	2.18	0.58
1:t:184:MET:HG3	1:t:483:PHE:HE2	1.67	0.58
1:u:109:TRP:NE1	1:u:247:LEU:HD23	2.18	0.58
1:u:289:CYS:HB2	1:v:104:LYS:HE2	1.84	0.58
1:v:85:PHE:HD1	1:v:99:ASP:HB3	1.68	0.58
1:x:184:MET:HG3	1:x:483:PHE:HE2	1.66	0.58
1:y:148:ILE:HG12	1:y:174:LEU:HD23	1.85	0.58
1:y:335:TRP:CG	1:y:336:PRO:HD2	2.38	0.58
1:A:109:TRP:NE1	1:A:247:LEU:HD23	2.18	0.58
1:B:300:GLY:HA2	1:B:301:GLN:CB	2.33	0.58
1:C:148:ILE:HG12	1:C:174:LEU:HD23	1.85	0.58
1:C:388:GLN:N	1:C:389:GLY:HA2	2.18	0.58
1:D:70:ASP:OD1	1:D:71:MET:N	2.36	0.58
1:D:404:GLN:HE22	1:D:443:ASP:H	1.50	0.58
1:E:289:CYS:HB2	1:Q:104:LYS:HE2	1.84	0.58
1:G:284:ARG:HG2	1:G:284:ARG:O	2.02	0.58
1:J:184:MET:HG3	1:J:483:PHE:HE2	1.67	0.58
1:K:300:GLY:HA2	1:K:301:GLN:CB	2.33	0.58
1:K:335:TRP:CG	1:K:336:PRO:HD2	2.38	0.58
1:L:244:PHE:CD2	1:L:246:PRO:HD3	2.39	0.58
1:M:284:ARG:O	1:M:284:ARG:HG2	2.02	0.58
1:N:86:PRO:HG3	1:N:95:ASP:HB2	1.83	0.58
1:N:388:GLN:N	1:N:389:GLY:HA2	2.18	0.58
1:O:97:ILE:HG21	1:O:340:ILE:CD1	2.34	0.58
1:O:300:GLY:HA2	1:O:301:GLN:CB	2.33	0.58
1:O:388:GLN:N	1:O:389:GLY:HA2	2.18	0.58
1:P:388:GLN:N	1:P:389:GLY:HA2	2.18	0.58
1:R:70:ASP:OD1	1:R:71:MET:N	2.36	0.58
1:S:335:TRP:CG	1:S:336:PRO:HD2	2.38	0.58
1:T:97:ILE:HG21	1:T:340:ILE:CD1	2.34	0.58
1:W:148:ILE:HG12	1:W:174:LEU:HD23	1.85	0.58
1:W:184:MET:HG3	1:W:483:PHE:HE2	1.66	0.58
1:W:289:CYS:HB2	1:Y:104:LYS:HE2	1.84	0.58
1:Y:109:TRP:NE1	1:Y:247:LEU:HD23	2.18	0.58
1:Y:300:GLY:HA2	1:Y:301:GLN:CB	2.33	0.58
1:Z:300:GLY:HA2	1:Z:301:GLN:CB	2.33	0.58
1:0:335:TRP:CG	1:0:336:PRO:HD2	2.38	0.58
1:0:404:GLN:HE22	1:0:443:ASP:H	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:244:PHE:CE2	1:1:246:PRO:CB	2.76	0.58
1:2:85:PHE:HD1	1:2:99:ASP:HB3	1.68	0.58
1:3:244:PHE:HE2	1:3:246:PRO:HB3	1.63	0.58
1:5:109:TRP:NE1	1:5:247:LEU:HD23	2.18	0.58
1:5:300:GLY:HA2	1:5:301:GLN:CB	2.33	0.58
1:a:94:ARG:HH22	1:b:429:ARG:HH12	1.49	0.58
1:c:148:ILE:HG12	1:c:174:LEU:HD23	1.85	0.58
1:c:388:GLN:N	1:c:389:GLY:HA2	2.18	0.58
1:d:284:ARG:HG2	1:d:284:ARG:O	2.03	0.58
1:e:148:ILE:HG12	1:e:174:LEU:HD23	1.85	0.58
1:f:284:ARG:HG2	1:f:284:ARG:O	2.02	0.58
1:f:300:GLY:HA2	1:f:301:GLN:CB	2.33	0.58
1:g:335:TRP:CG	1:g:336:PRO:HD2	2.38	0.58
1:h:109:TRP:NE1	1:h:247:LEU:HD23	2.18	0.58
1:i:97:ILE:HG21	1:i:340:ILE:CD1	2.34	0.58
1:j:109:TRP:HZ3	1:j:485:LYS:HB3	1.67	0.58
1:k:97:ILE:HG21	1:k:340:ILE:CD1	2.34	0.58
1:m:109:TRP:NE1	1:m:247:LEU:HD23	2.18	0.58
1:m:404:GLN:HE22	1:m:443:ASP:H	1.50	0.58
1:o:148:ILE:HG12	1:o:174:LEU:HD23	1.85	0.58
1:q:109:TRP:NE1	1:q:247:LEU:HD23	2.18	0.58
1:q:404:GLN:HE22	1:q:443:ASP:H	1.50	0.58
1:r:380:ASP:OD1	1:r:391:ARG:NH2	2.30	0.58
1:r:388:GLN:N	1:r:389:GLY:HA2	2.18	0.58
1:t:388:GLN:N	1:t:389:GLY:HA2	2.18	0.58
1:w:148:ILE:HG12	1:w:174:LEU:HD23	1.85	0.58
1:y:70:ASP:OD1	1:y:71:MET:N	2.36	0.58
1:6:244:PHE:CE2	1:6:246:PRO:CB	2.76	0.58
1:6:276:LEU:O	1:6:561:ARG:N	2.35	0.58
1:B:104:LYS:HE2	1:L:289:CYS:HB2	1.84	0.58
1:C:104:LYS:HE2	1:M:289:CYS:HB2	1.84	0.58
1:C:404:GLN:HE22	1:C:443:ASP:H	1.50	0.58
1:D:388:GLN:N	1:D:389:GLY:HA2	2.18	0.58
1:E:244:PHE:CD2	1:E:246:PRO:HD3	2.39	0.58
1:F:104:LYS:HE2	1:Q:289:CYS:HB2	1.84	0.58
1:J:109:TRP:NE1	1:J:247:LEU:HD23	2.18	0.58
1:J:244:PHE:CD2	1:J:246:PRO:HD3	2.39	0.58
1:K:104:LYS:HE2	1:7:289:CYS:HB2	1.84	0.58
1:M:70:ASP:OD1	1:M:71:MET:N	2.36	0.58
1:N:184:MET:HG3	1:N:483:PHE:HE2	1.67	0.58
1:O:335:TRP:CG	1:O:336:PRO:HD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:97:ILE:HG21	1:Q:340:ILE:CD1	2.34	0.58
1:R:335:TRP:CG	1:R:336:PRO:HD2	2.38	0.58
1:T:316:ARG:HH21	1:3:98:ASN:HB2	1.67	0.58
1:U:37:SER:CA	1:4:257:ARG:HG2	2.31	0.58
1:V:316:ARG:HH21	1:4:98:ASN:HB2	1.67	0.58
1:W:109:TRP:NE1	1:W:247:LEU:HD23	2.18	0.58
1:X:534:PRO:HD3	1:X:563:MET:HE2	1.84	0.58
1:1:148:ILE:HG12	1:1:174:LEU:HD23	1.85	0.58
1:2:109:TRP:NE1	1:2:247:LEU:HD23	2.18	0.58
1:2:109:TRP:HZ3	1:2:485:LYS:HB3	1.67	0.58
1:3:335:TRP:CG	1:3:336:PRO:HD2	2.38	0.58
1:4:335:TRP:CG	1:4:336:PRO:HD2	2.38	0.58
1:5:104:LYS:HE2	1:a:289:CYS:HB2	1.85	0.58
1:b:244:PHE:CD2	1:b:246:PRO:HD3	2.39	0.58
1:c:244:PHE:CE2	1:c:246:PRO:CB	2.76	0.58
1:d:70:ASP:OD1	1:d:71:MET:N	2.36	0.58
1:e:96:THR:HG1	1:e:342:TYR:HH	1.08	0.58
1:e:404:GLN:HE22	1:e:443:ASP:H	1.49	0.58
1:f:85:PHE:HD1	1:f:99:ASP:HB3	1.68	0.58
1:k:388:GLN:N	1:k:389:GLY:HA2	2.18	0.58
1:l:70:ASP:OD1	1:l:71:MET:N	2.36	0.58
1:l:244:PHE:HE2	1:l:246:PRO:HB3	1.63	0.58
1:l:528:TRP:CB	1:m:246:PRO:CG	2.65	0.58
1:n:109:TRP:NE1	1:n:247:LEU:HD23	2.18	0.58
1:n:529:ASN:ND2	1:o:242:ILE:O	2.37	0.58
1:o:335:TRP:CG	1:o:336:PRO:HD2	2.38	0.58
1:p:244:PHE:CD2	1:p:246:PRO:HD3	2.39	0.58
1:t:109:TRP:HZ3	1:t:485:LYS:HB3	1.67	0.58
1:t:109:TRP:NE1	1:t:247:LEU:HD23	2.18	0.58
1:u:184:MET:HG3	1:u:483:PHE:HE2	1.67	0.58
1:v:109:TRP:NE1	1:v:247:LEU:HD23	2.18	0.58
1:w:109:TRP:NE1	1:w:247:LEU:HD23	2.18	0.58
1:y:97:ILE:HG21	1:y:340:ILE:CD1	2.34	0.58
1:7:85:PHE:HD1	1:7:99:ASP:HB3	1.68	0.58
1:7:388:GLN:N	1:7:389:GLY:HA2	2.18	0.58
1:A:36:HIS:CD2	1:E:34:VAL:HG22	2.38	0.58
1:B:109:TRP:NE1	1:B:247:LEU:HD23	2.18	0.58
1:B:242:ILE:O	1:L:529:ASN:ND2	2.37	0.58
1:B:284:ARG:HG2	1:B:284:ARG:O	2.02	0.58
1:C:244:PHE:CD2	1:C:246:PRO:HD3	2.39	0.58
1:F:242:ILE:O	1:Q:529:ASN:ND2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:109:TRP:NE1	1:I:247:LEU:HD23	2.18	0.58
1:I:388:GLN:N	1:I:389:GLY:HA2	2.18	0.58
1:J:244:PHE:CE2	1:J:246:PRO:CB	2.76	0.58
1:L:284:ARG:HG2	1:L:284:ARG:O	2.02	0.58
1:M:244:PHE:HE2	1:M:246:PRO:HB3	1.63	0.58
1:N:244:PHE:CD2	1:N:246:PRO:HD3	2.39	0.58
1:O:104:LYS:HE2	1:h:289:CYS:HB2	1.84	0.58
1:O:276:LEU:O	1:O:561:ARG:N	2.35	0.58
1:P:244:PHE:HE2	1:P:246:PRO:HB3	1.63	0.58
1:P:276:LEU:O	1:P:561:ARG:N	2.35	0.58
1:Q:244:PHE:CD2	1:Q:246:PRO:HD3	2.39	0.58
1:R:97:ILE:HG21	1:R:340:ILE:CD1	2.34	0.58
1:R:242:ILE:O	1:U:529:ASN:ND2	2.37	0.58
1:T:244:PHE:CD2	1:T:246:PRO:HD3	2.39	0.58
1:U:276:LEU:O	1:U:561:ARG:N	2.35	0.58
1:V:85:PHE:HD1	1:V:99:ASP:HB3	1.68	0.58
1:V:388:GLN:N	1:V:389:GLY:HA2	2.18	0.58
1:X:191:PHE:CE1	1:X:470:HIS:HE1	2.16	0.58
1:Z:109:TRP:NE1	1:Z:247:LEU:HD23	2.18	0.58
1:0:148:ILE:HG12	1:0:174:LEU:HD23	1.85	0.58
1:2:284:ARG:O	1:2:284:ARG:HG2	2.02	0.58
1:3:109:TRP:NE1	1:3:247:LEU:HD23	2.18	0.58
1:3:109:TRP:HZ3	1:3:485:LYS:HB3	1.67	0.58
1:5:244:PHE:CD2	1:5:246:PRO:HD3	2.39	0.58
1:a:94:ARG:NH2	1:b:429:ARG:HH12	2.01	0.58
1:c:244:PHE:CD2	1:c:246:PRO:HD3	2.39	0.58
1:d:244:PHE:HE2	1:d:246:PRO:HB3	1.63	0.58
1:f:109:TRP:NE1	1:f:247:LEU:HD23	2.18	0.58
1:g:97:ILE:HG21	1:g:340:ILE:CD1	2.34	0.58
1:h:85:PHE:HD1	1:h:99:ASP:HB3	1.68	0.58
1:h:404:GLN:HE22	1:h:443:ASP:H	1.50	0.58
1:j:97:ILE:HG21	1:j:340:ILE:CD1	2.34	0.58
1:j:335:TRP:CG	1:j:336:PRO:HD2	2.38	0.58
1:k:284:ARG:HG2	1:k:284:ARG:O	2.02	0.58
1:k:335:TRP:CG	1:k:336:PRO:HD2	2.38	0.58
1:l:97:ILE:HG21	1:l:340:ILE:CD1	2.34	0.58
1:l:335:TRP:CG	1:l:336:PRO:HD2	2.38	0.58
1:m:85:PHE:HD1	1:m:99:ASP:HB3	1.68	0.58
1:n:244:PHE:CD2	1:n:246:PRO:HD3	2.39	0.58
1:q:388:GLN:N	1:q:389:GLY:HA2	2.18	0.58
1:w:191:PHE:CE1	1:w:470:HIS:HE1	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:85:PHE:HD1	1:x:99:ASP:HB3	1.68	0.58
1:y:242:ILE:O	1:6:529:ASN:ND2	2.37	0.58
1:z:335:TRP:CG	1:z:336:PRO:HD2	2.38	0.58
1:z:404:GLN:HE22	1:z:443:ASP:H	1.50	0.58
1:7:247:LEU:O	1:7:248:GLU:CB	2.42	0.58
1:7:335:TRP:CG	1:7:336:PRO:HD2	2.38	0.58
1:A:184:MET:HG3	1:A:483:PHE:HE2	1.67	0.58
1:E:109:TRP:NE1	1:E:247:LEU:HD23	2.18	0.58
1:E:148:ILE:HG12	1:E:174:LEU:HD23	1.85	0.58
1:E:388:GLN:N	1:E:389:GLY:HA2	2.18	0.58
1:F:148:ILE:HG12	1:F:174:LEU:HD23	1.85	0.58
1:F:284:ARG:HG2	1:F:284:ARG:O	2.02	0.58
1:H:85:PHE:HD1	1:H:99:ASP:HB3	1.68	0.58
1:J:284:ARG:HG2	1:J:284:ARG:O	2.02	0.58
1:J:289:CYS:HB2	1:L:104:LYS:HE2	1.84	0.58
1:K:148:ILE:HG12	1:K:174:LEU:HD23	1.85	0.58
1:N:148:ILE:HG12	1:N:174:LEU:HD23	1.85	0.58
1:O:109:TRP:HZ3	1:O:485:LYS:HB3	1.67	0.58
1:O:242:ILE:O	1:h:529:ASN:ND2	2.37	0.58
1:O:284:ARG:HG2	1:O:284:ARG:O	2.02	0.58
1:O:529:ASN:ND2	1:g:242:ILE:O	2.37	0.58
1:Q:70:ASP:OD1	1:Q:71:MET:N	2.36	0.58
1:V:289:CYS:HB2	1:4:104:LYS:HE2	1.84	0.58
1:V:534:PRO:HD3	1:V:563:MET:HE2	1.84	0.58
1:W:335:TRP:CG	1:W:336:PRO:HD2	2.38	0.58
1:X:148:ILE:HG12	1:X:174:LEU:HD23	1.85	0.58
1:0:109:TRP:HZ3	1:0:485:LYS:HB3	1.67	0.58
1:0:534:PRO:HD3	1:0:563:MET:HE2	1.84	0.58
1:1:244:PHE:CD2	1:1:246:PRO:HD3	2.39	0.58
1:5:85:PHE:HD1	1:5:99:ASP:HB3	1.68	0.58
1:a:109:TRP:NE1	1:a:247:LEU:HD23	2.18	0.58
1:a:284:ARG:HG2	1:a:284:ARG:O	2.02	0.58
1:d:335:TRP:CG	1:d:336:PRO:HD2	2.38	0.58
1:e:244:PHE:CD2	1:e:246:PRO:HD3	2.39	0.58
1:f:276:LEU:O	1:f:561:ARG:N	2.35	0.58
1:g:70:ASP:OD1	1:g:71:MET:N	2.36	0.58
1:h:148:ILE:HG12	1:h:174:LEU:HD23	1.85	0.58
1:i:244:PHE:CD2	1:i:246:PRO:HD3	2.39	0.58
1:k:109:TRP:HZ3	1:k:485:LYS:HB3	1.67	0.58
1:k:242:ILE:O	1:m:529:ASN:ND2	2.37	0.58
1:k:276:LEU:O	1:k:561:ARG:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:70:ASP:OD1	1:n:71:MET:N	2.36	0.58
1:n:85:PHE:HD1	1:n:99:ASP:HB3	1.68	0.58
1:n:97:ILE:HG21	1:n:340:ILE:CD1	2.34	0.58
1:n:289:CYS:HB2	1:o:104:LYS:HE2	1.84	0.58
1:o:284:ARG:HG2	1:o:284:ARG:O	2.02	0.58
1:p:109:TRP:NE1	1:p:247:LEU:HD23	2.18	0.58
1:p:148:ILE:HG12	1:p:174:LEU:HD23	1.85	0.58
1:p:388:GLN:N	1:p:389:GLY:HA2	2.18	0.58
1:r:184:MET:HG3	1:r:483:PHE:HE2	1.67	0.58
1:s:85:PHE:HD1	1:s:99:ASP:HB3	1.68	0.58
1:w:184:MET:HG3	1:w:483:PHE:HE2	1.67	0.58
1:w:335:TRP:CG	1:w:336:PRO:HD2	2.38	0.58
1:x:244:PHE:CD2	1:x:246:PRO:HD3	2.39	0.58
1:6:335:TRP:CG	1:6:336:PRO:HD2	2.38	0.58
1:A:335:TRP:CG	1:A:336:PRO:HD2	2.38	0.58
1:C:529:ASN:ND2	1:1:242:ILE:O	2.37	0.58
1:D:244:PHE:CD2	1:D:246:PRO:HD3	2.39	0.58
1:F:335:TRP:CG	1:F:336:PRO:HD2	2.38	0.58
1:G:244:PHE:CE2	1:G:246:PRO:CB	2.76	0.58
1:H:244:PHE:CD2	1:H:246:PRO:HD3	2.39	0.58
1:I:244:PHE:CD2	1:I:246:PRO:HD3	2.39	0.58
1:J:85:PHE:HD1	1:J:99:ASP:HB3	1.68	0.58
1:K:388:GLN:N	1:K:389:GLY:HA2	2.18	0.58
1:L:335:TRP:CG	1:L:336:PRO:HD2	2.38	0.58
1:M:244:PHE:CD2	1:M:246:PRO:HD3	2.39	0.58
1:O:244:PHE:CD2	1:O:246:PRO:HD3	2.39	0.58
1:P:109:TRP:NE1	1:P:247:LEU:HD23	2.18	0.58
1:Q:85:PHE:HD1	1:Q:99:ASP:HB3	1.68	0.58
1:S:109:TRP:NE1	1:S:247:LEU:HD23	2.18	0.58
1:S:148:ILE:HG12	1:S:174:LEU:HD23	1.85	0.58
1:U:97:ILE:HG21	1:U:340:ILE:CD1	2.34	0.58
1:U:335:TRP:CG	1:U:336:PRO:HD2	2.38	0.58
1:V:335:TRP:CG	1:V:336:PRO:HD2	2.38	0.58
1:W:85:PHE:HD1	1:W:99:ASP:HB3	1.68	0.58
1:X:97:ILE:HG21	1:X:340:ILE:CD1	2.34	0.58
1:0:97:ILE:HG21	1:0:340:ILE:CD1	2.34	0.58
1:2:276:LEU:O	1:2:561:ARG:N	2.35	0.58
1:3:97:ILE:HG21	1:3:340:ILE:CD1	2.34	0.58
1:5:98:ASN:HB2	1:a:316:ARG:HH21	1.66	0.58
1:b:35:GLY:C	1:c:257:ARG:HH11	2.10	0.58
1:b:284:ARG:HG2	1:b:284:ARG:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:335:TRP:CG	1:b:336:PRO:HD2	2.38	0.58
1:d:289:CYS:HB2	1:e:104:LYS:HE2	1.84	0.58
1:g:388:GLN:N	1:g:389:GLY:HA2	2.18	0.58
1:h:244:PHE:CD2	1:h:246:PRO:HD3	2.39	0.58
1:h:335:TRP:CG	1:h:336:PRO:HD2	2.38	0.58
1:i:276:LEU:O	1:i:561:ARG:N	2.35	0.58
1:k:244:PHE:CD2	1:k:246:PRO:HD3	2.39	0.58
1:k:529:ASN:ND2	1:l:242:ILE:O	2.37	0.58
1:m:148:ILE:HG12	1:m:174:LEU:HD23	1.85	0.58
1:o:388:GLN:N	1:o:389:GLY:HA2	2.18	0.58
1:r:244:PHE:CD2	1:r:246:PRO:HD3	2.39	0.58
1:r:335:TRP:CG	1:r:336:PRO:HD2	2.38	0.58
1:s:276:LEU:O	1:s:561:ARG:N	2.35	0.58
1:t:244:PHE:CD2	1:t:246:PRO:HD3	2.39	0.58
1:z:109:TRP:NE1	1:z:247:LEU:HD23	2.18	0.58
1:A:388:GLN:N	1:A:389:GLY:HA2	2.18	0.58
1:B:534:PRO:HD3	1:B:563:MET:HE2	1.84	0.58
1:C:316:ARG:HH21	1:1:98:ASN:HB2	1.67	0.58
1:G:335:TRP:CG	1:G:336:PRO:HD2	2.38	0.58
1:J:528:TRP:CB	1:L:246:PRO:CG	2.65	0.58
1:K:257:ARG:HG2	1:6:37:SER:CA	2.32	0.58
1:L:109:TRP:NE1	1:L:247:LEU:HD23	2.18	0.58
1:M:335:TRP:CG	1:M:336:PRO:HD2	2.38	0.58
1:N:335:TRP:CG	1:N:336:PRO:HD2	2.38	0.58
1:O:109:TRP:NE1	1:O:247:LEU:HD23	2.18	0.58
1:P:85:PHE:HD1	1:P:99:ASP:HB3	1.68	0.58
1:S:404:GLN:HE22	1:S:443:ASP:H	1.50	0.58
1:T:85:PHE:HD1	1:T:99:ASP:HB3	1.68	0.58
1:U:244:PHE:CE2	1:U:246:PRO:CB	2.76	0.58
1:U:388:GLN:N	1:U:389:GLY:HA2	2.18	0.58
1:V:247:LEU:O	1:V:248:GLU:CB	2.42	0.58
1:V:284:ARG:HG2	1:V:284:ARG:O	2.02	0.58
1:X:109:TRP:HZ3	1:X:485:LYS:HB3	1.68	0.58
1:1:109:TRP:NE1	1:1:247:LEU:HD23	2.18	0.58
1:4:148:ILE:HG12	1:4:174:LEU:HD23	1.85	0.58
1:4:388:GLN:N	1:4:389:GLY:HA2	2.18	0.58
1:5:284:ARG:HG2	1:5:284:ARG:O	2.02	0.58
1:b:109:TRP:NE1	1:b:247:LEU:HD23	2.18	0.58
1:d:244:PHE:CD2	1:d:246:PRO:HD3	2.39	0.58
1:g:404:GLN:HE22	1:g:443:ASP:H	1.49	0.58
1:j:109:TRP:NE1	1:j:247:LEU:HD23	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:109:TRP:NE1	1:k:247:LEU:HD23	2.18	0.58
1:l:388:GLN:N	1:l:389:GLY:HA2	2.18	0.58
1:l:404:GLN:HE22	1:l:443:ASP:H	1.50	0.58
1:m:244:PHE:CD2	1:m:246:PRO:HD3	2.39	0.58
1:q:244:PHE:CD2	1:q:246:PRO:HD3	2.39	0.58
1:s:109:TRP:NE1	1:s:247:LEU:HD23	2.18	0.58
1:u:244:PHE:HE2	1:u:246:PRO:HB3	1.63	0.58
1:u:300:GLY:HA2	1:u:301:GLN:CB	2.33	0.58
1:x:388:GLN:N	1:x:389:GLY:HA2	2.18	0.58
1:6:97:ILE:HG21	1:6:340:ILE:CD1	2.34	0.58
1:6:388:GLN:N	1:6:389:GLY:HA2	2.18	0.58
1:7:284:ARG:HG2	1:7:284:ARG:O	2.02	0.58
1:A:85:PHE:HD1	1:A:99:ASP:HB3	1.68	0.58
1:A:300:GLY:HA2	1:A:301:GLN:CB	2.33	0.58
1:F:388:GLN:N	1:F:389:GLY:HA2	2.18	0.58
1:I:97:ILE:HG21	1:I:340:ILE:CD1	2.34	0.58
1:J:148:ILE:HG12	1:J:174:LEU:HD23	1.85	0.58
1:J:529:ASN:ND2	1:L:242:ILE:O	2.37	0.58
1:M:85:PHE:HD1	1:M:99:ASP:HB3	1.68	0.58
1:M:97:ILE:HG21	1:M:340:ILE:CD1	2.34	0.58
1:O:148:ILE:HG12	1:O:174:LEU:HD23	1.85	0.58
1:S:244:PHE:CD2	1:S:246:PRO:HD3	2.39	0.58
1:T:243:GLN:HG2	1:f:527:GLN:NE2	2.19	0.58
1:T:527:GLN:NE2	1:3:243:GLN:HG2	2.19	0.58
1:V:244:PHE:CD2	1:V:246:PRO:HD3	2.39	0.58
1:Y:244:PHE:CE2	1:Y:246:PRO:CB	2.76	0.58
1:Y:247:LEU:O	1:Y:248:GLU:CB	2.42	0.58
1:Z:244:PHE:CD2	1:Z:246:PRO:HD3	2.39	0.58
1:2:70:ASP:OD1	1:2:71:MET:N	2.36	0.58
1:4:284:ARG:HG2	1:4:284:ARG:O	2.02	0.58
1:5:244:PHE:CE2	1:5:246:PRO:CB	2.76	0.58
1:a:534:PRO:HD3	1:a:563:MET:HE2	1.84	0.58
1:c:98:ASN:HB2	1:e:316:ARG:HH21	1.67	0.58
1:c:242:ILE:O	1:e:529:ASN:ND2	2.37	0.58
1:d:244:PHE:CE2	1:d:246:PRO:CB	2.76	0.58
1:f:257:ARG:HG2	1:h:37:SER:CA	2.32	0.58
1:g:109:TRP:NE1	1:g:247:LEU:HD23	2.18	0.58
1:h:284:ARG:O	1:h:284:ARG:HG2	2.02	0.58
1:i:527:GLN:NE2	1:j:243:GLN:HG2	2.19	0.58
1:k:148:ILE:HG12	1:k:174:LEU:HD23	1.85	0.58
1:l:244:PHE:CD2	1:l:246:PRO:HD3	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:335:TRP:CG	1:m:336:PRO:HD2	2.38	0.58
1:r:148:ILE:HG12	1:r:174:LEU:HD23	1.85	0.58
1:r:300:GLY:HA2	1:r:301:GLN:CB	2.33	0.58
1:t:97:ILE:HG21	1:t:340:ILE:CD1	2.34	0.58
1:u:335:TRP:CG	1:u:336:PRO:HD2	2.38	0.58
1:v:335:TRP:CG	1:v:336:PRO:HD2	2.38	0.58
1:x:284:ARG:HG2	1:x:284:ARG:O	2.02	0.58
1:y:85:PHE:HD1	1:y:99:ASP:HB3	1.68	0.58
1:z:97:ILE:HG21	1:z:340:ILE:CD1	2.34	0.58
1:z:148:ILE:HG12	1:z:174:LEU:HD23	1.85	0.58
1:z:323:SER:HG	1:6:98:ASN:HA	1.69	0.58
1:7:244:PHE:CD2	1:7:246:PRO:HD3	2.39	0.58
1:7:534:PRO:HD3	1:7:563:MET:HE2	1.84	0.58
1:A:289:CYS:HB2	1:G:104:LYS:HE2	1.85	0.58
1:B:85:PHE:HD1	1:B:99:ASP:HB3	1.68	0.58
1:B:316:ARG:HH21	1:J:98:ASN:HB2	1.67	0.58
1:G:527:GLN:NE2	1:I:243:GLN:HG2	2.19	0.58
1:G:529:ASN:ND2	1:I:242:ILE:O	2.37	0.58
1:H:109:TRP:NE1	1:H:247:LEU:HD23	2.18	0.58
1:H:388:GLN:N	1:H:389:GLY:HA2	2.18	0.58
1:I:148:ILE:HG12	1:I:174:LEU:HD23	1.85	0.58
1:N:300:GLY:HA2	1:N:301:GLN:CB	2.33	0.58
1:R:85:PHE:HD1	1:R:99:ASP:HB3	1.68	0.58
1:S:97:ILE:HG21	1:S:340:ILE:CD1	2.34	0.58
1:S:323:SER:HG	1:U:98:ASN:HA	1.69	0.58
1:T:109:TRP:NE1	1:T:247:LEU:HD23	2.18	0.58
1:T:191:PHE:CE1	1:T:470:HIS:HE1	2.16	0.58
1:T:276:LEU:O	1:T:561:ARG:N	2.35	0.58
1:X:109:TRP:NE1	1:X:247:LEU:HD23	2.18	0.58
1:Y:244:PHE:CD2	1:Y:246:PRO:HD3	2.39	0.58
1:2:527:GLN:NE2	1:i:243:GLN:HG2	2.19	0.58
1:4:109:TRP:NE1	1:4:247:LEU:HD23	2.18	0.58
1:a:85:PHE:HD1	1:a:99:ASP:HB3	1.68	0.58
1:b:148:ILE:HG12	1:b:174:LEU:HD23	1.85	0.58
1:c:109:TRP:NE1	1:c:247:LEU:HD23	2.18	0.58
1:d:85:PHE:HD1	1:d:99:ASP:HB3	1.69	0.58
1:d:97:ILE:HG21	1:d:340:ILE:CD1	2.34	0.58
1:d:323:SER:HG	1:e:98:ASN:HA	1.69	0.58
1:g:244:PHE:CD2	1:g:246:PRO:HD3	2.39	0.58
1:h:97:ILE:HG21	1:h:340:ILE:CD1	2.34	0.58
1:i:85:PHE:HD1	1:i:99:ASP:HB3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:109:TRP:NE1	1:i:247:LEU:HD23	2.18	0.58
1:i:191:PHE:CE1	1:i:470:HIS:HE1	2.16	0.58
1:k:104:LYS:HE2	1:m:289:CYS:HB2	1.85	0.58
1:l:109:TRP:NE1	1:l:247:LEU:HD23	2.18	0.58
1:m:97:ILE:HG21	1:m:340:ILE:CD1	2.34	0.58
1:m:284:ARG:HG2	1:m:284:ARG:O	2.02	0.58
1:p:97:ILE:HG21	1:p:340:ILE:CD1	2.34	0.58
1:r:109:TRP:NE1	1:r:247:LEU:HD23	2.18	0.58
1:r:284:ARG:HG2	1:r:284:ARG:O	2.02	0.58
1:t:242:ILE:O	1:v:529:ASN:ND2	2.37	0.58
1:t:243:GLN:HG2	1:v:527:GLN:NE2	2.19	0.58
1:u:85:PHE:HD1	1:u:99:ASP:HB3	1.68	0.58
1:u:388:GLN:N	1:u:389:GLY:HA2	2.18	0.58
1:w:85:PHE:HD1	1:w:99:ASP:HB3	1.69	0.58
1:x:97:ILE:HG21	1:x:340:ILE:CD1	2.34	0.58
1:x:109:TRP:NE1	1:x:247:LEU:HD23	2.18	0.58
1:A:244:PHE:HE2	1:A:246:PRO:HB3	1.63	0.57
1:B:97:ILE:HG21	1:B:340:ILE:CD1	2.34	0.57
1:C:85:PHE:HD1	1:C:99:ASP:HB3	1.68	0.57
1:C:242:ILE:O	1:M:529:ASN:ND2	2.37	0.57
1:C:284:ARG:HG2	1:C:284:ARG:O	2.02	0.57
1:H:97:ILE:HG21	1:H:340:ILE:CD1	2.34	0.57
1:J:276:LEU:O	1:J:561:ARG:N	2.35	0.57
1:J:335:TRP:CG	1:J:336:PRO:HD2	2.38	0.57
1:K:243:GLN:HG2	1:7:527:GLN:NE2	2.19	0.57
1:K:284:ARG:HG2	1:K:284:ARG:O	2.02	0.57
1:K:527:GLN:NE2	1:0:243:GLN:HG2	2.19	0.57
1:L:148:ILE:HG12	1:L:174:LEU:HD23	1.85	0.57
1:L:184:MET:HG3	1:L:483:PHE:HE2	1.67	0.57
1:N:529:ASN:ND2	1:P:242:ILE:O	2.37	0.57
1:P:244:PHE:CD2	1:P:246:PRO:HD3	2.39	0.57
1:Q:388:GLN:N	1:Q:389:GLY:HA2	2.18	0.57
1:R:243:GLN:HG2	1:U:527:GLN:NE2	2.19	0.57
1:S:109:TRP:HZ3	1:S:485:LYS:HB3	1.67	0.57
1:S:386:ASP:N	1:S:387:GLN:HA	2.19	0.57
1:V:109:TRP:HZ3	1:V:485:LYS:HB3	1.67	0.57
1:X:37:SER:CA	1:Y:257:ARG:HG2	2.32	0.57
1:Z:247:LEU:O	1:Z:248:GLU:CB	2.42	0.57
1:Z:257:ARG:HG2	1:0:37:SER:CA	2.32	0.57
1:0:109:TRP:NE1	1:0:247:LEU:HD23	2.18	0.57
1:1:300:GLY:HA2	1:1:301:GLN:CB	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:37:SER:H	1:b:257:ARG:HG3	1.67	0.57
1:5:148:ILE:HG12	1:5:174:LEU:HD23	1.85	0.57
1:d:528:TRP:CB	1:e:246:PRO:CG	2.65	0.57
1:e:85:PHE:HD1	1:e:99:ASP:HB3	1.68	0.57
1:e:284:ARG:HG2	1:e:284:ARG:O	2.02	0.57
1:f:70:ASP:OD1	1:f:71:MET:N	2.36	0.57
1:g:85:PHE:HD1	1:g:99:ASP:HB3	1.68	0.57
1:l:529:ASN:ND2	1:m:242:ILE:O	2.37	0.57
1:r:529:ASN:ND2	1:s:242:ILE:O	2.37	0.57
1:t:148:ILE:HG12	1:t:174:LEU:HD23	1.85	0.57
1:v:244:PHE:CE2	1:v:246:PRO:CB	2.76	0.57
1:z:386:ASP:N	1:z:387:GLN:HA	2.19	0.57
1:z:388:GLN:N	1:z:389:GLY:HA2	2.18	0.57
1:z:529:ASN:ND2	1:6:242:ILE:O	2.37	0.57
1:6:244:PHE:CD2	1:6:246:PRO:HD3	2.39	0.57
1:7:109:TRP:HZ3	1:7:485:LYS:HB3	1.67	0.57
1:A:242:ILE:O	1:I:529:ASN:ND2	2.37	0.57
1:B:243:GLN:HG2	1:L:527:GLN:NE2	2.19	0.57
1:B:335:TRP:CG	1:B:336:PRO:HD2	2.38	0.57
1:C:527:GLN:NE2	1:1:243:GLN:HG2	2.19	0.57
1:G:97:ILE:HG21	1:G:340:ILE:CD1	2.34	0.57
1:H:284:ARG:HG2	1:H:284:ARG:O	2.02	0.57
1:J:97:ILE:HG21	1:J:340:ILE:CD1	2.34	0.57
1:K:109:TRP:NE1	1:K:247:LEU:HD23	2.18	0.57
1:K:244:PHE:HE2	1:K:246:PRO:HB3	1.63	0.57
1:M:244:PHE:CE2	1:M:246:PRO:CB	2.76	0.57
1:N:37:SER:CA	1:g:257:ARG:HG2	2.32	0.57
1:Q:335:TRP:CG	1:Q:336:PRO:HD2	2.38	0.57
1:S:388:GLN:N	1:S:389:GLY:HA2	2.18	0.57
1:S:529:ASN:ND2	1:U:242:ILE:O	2.37	0.57
1:U:244:PHE:CD2	1:U:246:PRO:HD3	2.39	0.57
1:V:527:GLN:NE2	1:4:243:GLN:HG2	2.20	0.57
1:W:70:ASP:OD1	1:W:71:MET:N	2.36	0.57
1:Z:244:PHE:CE2	1:Z:246:PRO:CB	2.76	0.57
1:1:97:ILE:HG21	1:1:340:ILE:CD1	2.34	0.57
1:2:104:LYS:HE2	1:j:289:CYS:HB2	1.84	0.57
1:2:386:ASP:N	1:2:387:GLN:HA	2.19	0.57
1:a:97:ILE:HG21	1:a:340:ILE:CD1	2.34	0.57
1:a:335:TRP:CG	1:a:336:PRO:HD2	2.38	0.57
1:b:184:MET:HG3	1:b:483:PHE:HE2	1.67	0.57
1:c:243:GLN:HG2	1:e:527:GLN:NE2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:97:ILE:HG21	1:f:340:ILE:CD1	2.34	0.57
1:f:386:ASP:N	1:f:387:GLN:HA	2.19	0.57
1:g:529:ASN:ND2	1:h:242:ILE:O	2.37	0.57
1:k:534:PRO:HD3	1:k:563:MET:HE2	1.84	0.57
1:n:244:PHE:CE2	1:n:246:PRO:CB	2.76	0.57
1:n:335:TRP:CG	1:n:336:PRO:HD2	2.38	0.57
1:p:335:TRP:CG	1:p:336:PRO:HD2	2.38	0.57
1:s:244:PHE:CD2	1:s:246:PRO:HD3	2.39	0.57
1:u:527:GLN:NE2	1:v:243:GLN:HG2	2.19	0.57
1:z:244:PHE:CD2	1:z:246:PRO:HD3	2.39	0.57
1:z:247:LEU:O	1:z:248:GLU:CB	2.42	0.57
1:6:85:PHE:HD1	1:6:99:ASP:HB3	1.68	0.57
1:7:276:LEU:O	1:7:561:ARG:N	2.35	0.57
1:A:529:ASN:ND2	1:G:242:ILE:O	2.36	0.57
1:D:527:GLN:NE2	1:N:243:GLN:HG2	2.19	0.57
1:E:97:ILE:HG21	1:E:340:ILE:CD1	2.34	0.57
1:F:109:TRP:HZ3	1:F:485:LYS:HB3	1.67	0.57
1:H:529:ASN:ND2	1:W:242:ILE:O	2.37	0.57
1:J:37:SER:CB	1:0:257:ARG:CG	2.72	0.57
1:K:244:PHE:CD2	1:K:246:PRO:HD3	2.39	0.57
1:L:276:LEU:O	1:L:561:ARG:N	2.35	0.57
1:L:386:ASP:N	1:L:387:GLN:HA	2.19	0.57
1:N:534:PRO:HD3	1:N:563:MET:HE2	1.84	0.57
1:R:109:TRP:NE1	1:R:247:LEU:HD23	2.18	0.57
1:T:529:ASN:ND2	1:3:242:ILE:O	2.37	0.57
1:V:109:TRP:NE1	1:V:247:LEU:HD23	2.18	0.57
1:W:97:ILE:HG21	1:W:340:ILE:CD1	2.34	0.57
1:X:243:GLN:HG2	1:4:527:GLN:NE2	2.19	0.57
1:Z:529:ASN:ND2	1:x:242:ILE:O	2.37	0.57
1:2:97:ILE:HG21	1:2:340:ILE:CD1	2.34	0.57
1:3:148:ILE:HG12	1:3:174:LEU:HD23	1.85	0.57
1:3:289:CYS:HB2	1:f:104:LYS:HE2	1.84	0.57
1:5:97:ILE:HG21	1:5:340:ILE:CD1	2.34	0.57
1:5:276:LEU:O	1:5:561:ARG:N	2.35	0.57
1:5:335:TRP:CG	1:5:336:PRO:HD2	2.38	0.57
1:b:276:LEU:O	1:b:561:ARG:N	2.35	0.57
1:c:97:ILE:HG21	1:c:340:ILE:CD1	2.34	0.57
1:c:300:GLY:HA2	1:c:301:GLN:CB	2.33	0.57
1:d:529:ASN:ND2	1:e:242:ILE:O	2.37	0.57
1:h:388:GLN:N	1:h:389:GLY:HA2	2.18	0.57
1:j:148:ILE:HG12	1:j:174:LEU:HD23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:244:PHE:CD2	1:j:246:PRO:HD3	2.39	0.57
1:l:85:PHE:HD1	1:l:99:ASP:HB3	1.68	0.57
1:m:388:GLN:N	1:m:389:GLY:HA2	2.18	0.57
1:n:242:ILE:O	1:p:529:ASN:ND2	2.37	0.57
1:n:388:GLN:N	1:n:389:GLY:HA2	2.18	0.57
1:o:244:PHE:CD2	1:o:246:PRO:HD3	2.39	0.57
1:q:527:GLN:NE2	1:r:243:GLN:HG2	2.19	0.57
1:r:534:PRO:HD3	1:r:563:MET:HE2	1.84	0.57
1:t:59:HIS:HE1	1:t:515:LYS:HZ1	1.51	0.57
1:v:97:ILE:HG21	1:v:340:ILE:CD1	2.34	0.57
1:w:70:ASP:OD1	1:w:71:MET:N	2.36	0.57
1:w:242:ILE:O	1:x:529:ASN:ND2	2.37	0.57
1:y:243:GLN:HG2	1:6:527:GLN:NE2	2.20	0.57
1:A:97:ILE:HG21	1:A:340:ILE:CD1	2.34	0.57
1:D:289:CYS:HB2	1:N:104:LYS:HE2	1.84	0.57
1:E:335:TRP:CG	1:E:336:PRO:HD2	2.38	0.57
1:E:529:ASN:ND2	1:Q:242:ILE:O	2.37	0.57
1:F:85:PHE:HD1	1:F:99:ASP:HB3	1.68	0.57
1:F:244:PHE:CD2	1:F:246:PRO:HD3	2.39	0.57
1:G:528:TRP:CB	1:I:246:PRO:CG	2.65	0.57
1:K:529:ASN:ND2	1:0:242:ILE:O	2.37	0.57
1:L:300:GLY:HA2	1:L:301:GLN:CB	2.33	0.57
1:N:109:TRP:NE1	1:N:247:LEU:HD23	2.18	0.57
1:N:284:ARG:HG2	1:N:284:ARG:O	2.02	0.57
1:R:527:GLN:NE2	1:S:243:GLN:HG2	2.19	0.57
1:U:85:PHE:HD1	1:U:99:ASP:HB3	1.68	0.57
1:V:276:LEU:O	1:V:561:ARG:N	2.35	0.57
1:X:242:ILE:O	1:4:529:ASN:ND2	2.37	0.57
1:2:316:ARG:HH21	1:i:98:ASN:HB2	1.67	0.57
1:2:529:ASN:ND2	1:i:242:ILE:O	2.37	0.57
1:3:244:PHE:CD2	1:3:246:PRO:HD3	2.39	0.57
1:4:244:PHE:HE2	1:4:246:PRO:HB3	1.63	0.57
1:a:380:ASP:OD1	1:a:391:ARG:NH2	2.30	0.57
1:b:386:ASP:N	1:b:387:GLN:HA	2.19	0.57
1:i:529:ASN:ND2	1:j:242:ILE:O	2.37	0.57
1:k:527:GLN:NE2	1:l:243:GLN:HG2	2.19	0.57
1:q:97:ILE:HG21	1:q:340:ILE:CD1	2.34	0.57
1:w:97:ILE:HG21	1:w:340:ILE:CD1	2.34	0.57
1:z:109:TRP:HZ3	1:z:485:LYS:HB3	1.67	0.57
1:7:386:ASP:N	1:7:387:GLN:HA	2.19	0.57
1:B:244:PHE:CD2	1:B:246:PRO:HD3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:529:ASN:ND2	1:J:242:ILE:O	2.37	0.57
1:D:97:ILE:HG21	1:D:340:ILE:CD1	2.34	0.57
1:E:300:GLY:HA2	1:E:301:GLN:CB	2.33	0.57
1:G:289:CYS:HB2	1:I:104:LYS:HE2	1.84	0.57
1:H:148:ILE:HG12	1:H:174:LEU:HD23	1.85	0.57
1:H:242:ILE:O	1:Y:529:ASN:ND2	2.37	0.57
1:K:37:SER:CA	1:L:257:ARG:HG2	2.32	0.57
1:K:242:ILE:O	1:7:529:ASN:ND2	2.37	0.57
1:M:386:ASP:N	1:M:387:GLN:HA	2.19	0.57
1:O:527:GLN:NE2	1:g:243:GLN:HG2	2.20	0.57
1:O:534:PRO:HD3	1:O:563:MET:HE2	1.84	0.57
1:Q:244:PHE:CE2	1:Q:246:PRO:CB	2.76	0.57
1:R:191:PHE:CE1	1:R:470:HIS:HE1	2.16	0.57
1:R:388:GLN:N	1:R:389:GLY:HA2	2.18	0.57
1:S:247:LEU:O	1:S:248:GLU:CB	2.42	0.57
1:S:527:GLN:NE2	1:U:243:GLN:HG2	2.20	0.57
1:U:109:TRP:NE1	1:U:247:LEU:HD23	2.18	0.57
1:0:244:PHE:CD2	1:0:246:PRO:HD3	2.39	0.57
1:1:284:ARG:HG2	1:1:284:ARG:O	2.02	0.57
1:2:257:ARG:HG2	1:m:37:SER:CA	2.32	0.57
1:2:388:GLN:N	1:2:389:GLY:HA2	2.18	0.57
1:3:527:GLN:NE2	1:f:243:GLN:HG2	2.19	0.57
1:4:244:PHE:CD2	1:4:246:PRO:HD3	2.39	0.57
1:5:388:GLN:N	1:5:389:GLY:HA2	2.18	0.57
1:a:70:ASP:OD1	1:a:71:MET:N	2.36	0.57
1:a:371:GLN:HE22	1:b:415:SER:C	2.12	0.57
1:d:386:ASP:N	1:d:387:GLN:HA	2.19	0.57
1:g:109:TRP:HZ3	1:g:485:LYS:HB3	1.67	0.57
1:o:85:PHE:HD1	1:o:99:ASP:HB3	1.68	0.57
1:p:85:PHE:HD1	1:p:99:ASP:HB3	1.68	0.57
1:p:300:GLY:HA2	1:p:301:GLN:CB	2.33	0.57
1:t:529:ASN:ND2	1:u:242:ILE:O	2.37	0.57
1:u:97:ILE:HG21	1:u:340:ILE:CD1	2.34	0.57
1:u:386:ASP:N	1:u:387:GLN:HA	2.19	0.57
1:v:244:PHE:CD2	1:v:246:PRO:HD3	2.39	0.57
1:y:109:TRP:NE1	1:y:247:LEU:HD23	2.18	0.57
1:7:431:SER:OG	1:7:433:HIS:CE1	2.58	0.57
1:A:386:ASP:N	1:A:387:GLN:HA	2.19	0.57
1:B:527:GLN:NE2	1:J:243:GLN:HG2	2.20	0.57
1:G:388:GLN:N	1:G:389:GLY:HA2	2.18	0.57
1:J:386:ASP:N	1:J:387:GLN:HA	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:431:SER:OG	1:K:433:HIS:CE1	2.58	0.57
1:M:431:SER:OG	1:M:433:HIS:CE1	2.58	0.57
1:P:70:ASP:OD1	1:P:71:MET:N	2.36	0.57
1:T:98:ASN:HB2	1:f:316:ARG:HH21	1.67	0.57
1:T:242:ILE:O	1:f:529:ASN:ND2	2.37	0.57
1:V:386:ASP:N	1:V:387:GLN:HA	2.19	0.57
1:V:431:SER:OG	1:V:433:HIS:CE1	2.58	0.57
1:V:529:ASN:ND2	1:4:242:ILE:O	2.37	0.57
1:X:70:ASP:OD1	1:X:71:MET:N	2.36	0.57
1:X:244:PHE:CD2	1:X:246:PRO:HD3	2.39	0.57
1:Z:70:ASP:OD1	1:Z:71:MET:N	2.36	0.57
1:Z:243:GLN:HG2	1:w:527:GLN:NE2	2.19	0.57
1:0:70:ASP:OD1	1:0:71:MET:N	2.36	0.57
1:2:242:ILE:O	1:j:529:ASN:ND2	2.37	0.57
1:2:243:GLN:HG2	1:j:527:GLN:NE2	2.19	0.57
1:4:431:SER:OG	1:4:433:HIS:CE1	2.58	0.57
1:5:70:ASP:OD1	1:5:71:MET:N	2.36	0.57
1:a:244:PHE:CD2	1:a:246:PRO:HD3	2.39	0.57
1:b:300:GLY:HA2	1:b:301:GLN:CB	2.33	0.57
1:d:380:ASP:OD1	1:d:391:ARG:NH2	2.30	0.57
1:f:244:PHE:CD2	1:f:246:PRO:HD3	2.39	0.57
1:k:386:ASP:N	1:k:387:GLN:HA	2.19	0.57
1:l:257:ARG:HG2	1:r:37:SER:CA	2.32	0.57
1:q:289:CYS:HB2	1:r:104:LYS:HE2	1.84	0.57
1:s:97:ILE:HG21	1:s:340:ILE:CD1	2.34	0.57
1:t:104:LYS:HE2	1:v:289:CYS:HB2	1.84	0.57
1:t:527:GLN:NE2	1:u:243:GLN:HG2	2.19	0.57
1:v:388:GLN:N	1:v:389:GLY:HA2	2.18	0.57
1:w:104:LYS:HE2	1:x:289:CYS:HB2	1.84	0.57
1:x:148:ILE:HG12	1:x:174:LEU:HD23	1.85	0.57
1:x:333:TYR:HE2	1:x:335:TRP:CE3	2.23	0.57
1:y:527:GLN:NE2	1:z:243:GLN:HG2	2.19	0.57
1:z:527:GLN:NE2	1:6:243:GLN:HG2	2.20	0.57
1:7:109:TRP:NE1	1:7:247:LEU:HD23	2.18	0.57
1:A:243:GLN:HG2	1:I:527:GLN:NE2	2.20	0.57
1:B:70:ASP:OD1	1:B:71:MET:N	2.36	0.57
1:C:97:ILE:HG21	1:C:340:ILE:CD1	2.34	0.57
1:C:246:PRO:CG	1:M:528:TRP:CB	2.65	0.57
1:E:202:ARG:CZ	1:E:381:TRP:HE1	2.18	0.57
1:F:109:TRP:NE1	1:F:247:LEU:HD23	2.18	0.57
1:H:333:TYR:HE2	1:H:335:TRP:CE3	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:388:GLN:N	1:J:389:GLY:HA2	2.18	0.57
1:K:85:PHE:HD1	1:K:99:ASP:HB3	1.68	0.57
1:M:243:GLN:HG2	1:1:527:GLN:NE2	2.20	0.57
1:N:97:ILE:HG21	1:N:340:ILE:CD1	2.34	0.57
1:P:97:ILE:HG21	1:P:340:ILE:CD1	2.34	0.57
1:R:244:PHE:CD2	1:R:246:PRO:HD3	2.39	0.57
1:W:244:PHE:CD2	1:W:246:PRO:HD3	2.39	0.57
1:W:529:ASN:ND2	1:Y:242:ILE:O	2.37	0.57
1:Y:386:ASP:N	1:Y:387:GLN:HA	2.19	0.57
1:Z:97:ILE:HG21	1:Z:340:ILE:CD1	2.34	0.57
1:Z:242:ILE:O	1:w:529:ASN:ND2	2.37	0.57
1:Z:386:ASP:N	1:Z:387:GLN:HA	2.19	0.57
1:2:244:PHE:CD2	1:2:246:PRO:HD3	2.39	0.57
1:3:529:ASN:ND2	1:f:242:ILE:O	2.37	0.57
1:5:386:ASP:N	1:5:387:GLN:HA	2.19	0.57
1:c:284:ARG:HG2	1:c:284:ARG:O	2.02	0.57
1:c:527:GLN:NE2	1:d:243:GLN:HG2	2.20	0.57
1:f:388:GLN:N	1:f:389:GLY:HA2	2.18	0.57
1:h:247:LEU:O	1:h:248:GLU:CB	2.42	0.57
1:o:109:TRP:NE1	1:o:247:LEU:HD23	2.18	0.57
1:p:59:HIS:HE1	1:p:515:LYS:HZ1	1.53	0.57
1:r:97:ILE:HG21	1:r:340:ILE:CD1	2.34	0.57
1:s:70:ASP:OD1	1:s:71:MET:N	2.36	0.57
1:t:246:PRO:CG	1:v:528:TRP:CB	2.65	0.57
1:y:388:GLN:N	1:y:389:GLY:HA2	2.18	0.57
1:z:70:ASP:OD1	1:z:71:MET:N	2.36	0.57
1:6:109:TRP:NE1	1:6:247:LEU:HD23	2.18	0.57
1:B:380:ASP:OD1	1:B:391:ARG:NH2	2.30	0.57
1:D:148:ILE:HG12	1:D:174:LEU:HD23	1.85	0.57
1:E:85:PHE:HD1	1:E:99:ASP:HB3	1.68	0.57
1:E:431:SER:OG	1:E:433:HIS:CE1	2.58	0.57
1:F:97:ILE:HG21	1:F:340:ILE:CD1	2.34	0.57
1:F:202:ARG:CZ	1:F:381:TRP:HE1	2.18	0.57
1:G:244:PHE:CD2	1:G:246:PRO:HD3	2.39	0.57
1:H:289:CYS:HB2	1:W:104:LYS:HE2	1.85	0.57
1:J:70:ASP:OD1	1:J:71:MET:N	2.36	0.57
1:J:316:ARG:HH21	1:L:98:ASN:HB2	1.67	0.57
1:L:202:ARG:CZ	1:L:381:TRP:HE1	2.18	0.57
1:M:37:SER:CB	1:N:257:ARG:CG	2.72	0.57
1:M:202:ARG:CZ	1:M:381:TRP:HE1	2.18	0.57
1:P:333:TYR:HE2	1:P:335:TRP:CE3	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:333:TYR:HE2	1:U:335:TRP:CE3	2.23	0.57
1:W:527:GLN:NE2	1:Y:243:GLN:HG2	2.20	0.57
1:X:59:HIS:HE1	1:X:515:LYS:HZ1	1.53	0.57
1:Y:70:ASP:OD1	1:Y:71:MET:N	2.36	0.57
1:Y:97:ILE:HG21	1:Y:340:ILE:CD1	2.34	0.57
1:Z:527:GLN:NE2	1:x:243:GLN:HG2	2.19	0.57
1:0:528:TRP:CB	1:7:246:PRO:CG	2.65	0.57
1:1:333:TYR:HE2	1:1:335:TRP:CE3	2.23	0.57
1:3:380:ASP:OD1	1:3:391:ARG:NH2	2.30	0.57
1:4:85:PHE:HD1	1:4:99:ASP:HB3	1.68	0.57
1:4:97:ILE:HG21	1:4:340:ILE:CD1	2.34	0.57
1:b:202:ARG:CZ	1:b:381:TRP:HE1	2.18	0.57
1:d:202:ARG:CZ	1:d:381:TRP:HE1	2.18	0.57
1:d:431:SER:OG	1:d:433:HIS:CE1	2.58	0.57
1:g:276:LEU:O	1:g:561:ARG:N	2.35	0.57
1:k:85:PHE:HD1	1:k:99:ASP:HB3	1.68	0.57
1:l:109:TRP:HZ3	1:l:485:LYS:HB3	1.67	0.57
1:m:202:ARG:CZ	1:m:381:TRP:HE1	2.18	0.57
1:m:333:TYR:HE2	1:m:335:TRP:CE3	2.23	0.57
1:o:97:ILE:HG21	1:o:340:ILE:CD1	2.34	0.57
1:o:109:TRP:HZ3	1:o:485:LYS:HB3	1.67	0.57
1:o:202:ARG:CZ	1:o:381:TRP:HE1	2.18	0.57
1:o:407:TRP:CE3	1:o:410:LYS:HG2	2.40	0.57
1:p:202:ARG:CZ	1:p:381:TRP:HE1	2.18	0.57
1:p:431:SER:OG	1:p:433:HIS:CE1	2.58	0.57
1:q:109:TRP:HZ3	1:q:485:LYS:HB3	1.67	0.57
1:q:243:GLN:HG2	1:s:527:GLN:NE2	2.20	0.57
1:q:529:ASN:ND2	1:r:242:ILE:O	2.37	0.57
1:s:333:TYR:HE2	1:s:335:TRP:CE3	2.23	0.57
1:u:404:GLN:HE22	1:u:443:ASP:H	1.50	0.57
1:y:191:PHE:CE1	1:y:470:HIS:HE1	2.16	0.57
1:y:244:PHE:CD2	1:y:246:PRO:HD3	2.39	0.57
1:y:300:GLY:HA2	1:y:301:GLN:CB	2.33	0.57
1:6:148:ILE:HG12	1:6:174:LEU:HD23	1.85	0.57
1:6:386:ASP:N	1:6:387:GLN:HA	2.19	0.57
1:A:244:PHE:CD2	1:A:246:PRO:HD3	2.39	0.57
1:A:333:TYR:HE2	1:A:335:TRP:CE3	2.23	0.57
1:C:407:TRP:CE3	1:C:410:LYS:HG2	2.40	0.57
1:D:243:GLN:HG2	1:P:527:GLN:NE2	2.20	0.57
1:D:529:ASN:ND2	1:N:242:ILE:O	2.37	0.57
1:E:104:LYS:HE2	1:F:289:CYS:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:386:ASP:N	1:E:387:GLN:HA	2.19	0.57
1:F:407:TRP:CE3	1:F:410:LYS:HG2	2.40	0.57
1:H:243:GLN:HG2	1:Y:527:GLN:NE2	2.19	0.57
1:I:300:GLY:HA2	1:I:301:GLN:CB	2.33	0.57
1:J:527:GLN:NE2	1:L:243:GLN:HG2	2.19	0.57
1:N:386:ASP:N	1:N:387:GLN:HA	2.19	0.57
1:P:37:SER:CA	1:Q:257:ARG:HG2	2.32	0.57
1:Q:202:ARG:CZ	1:Q:381:TRP:HE1	2.18	0.57
1:Q:386:ASP:N	1:Q:387:GLN:HA	2.19	0.57
1:S:333:TYR:HE2	1:S:335:TRP:CE3	2.23	0.57
1:T:257:ARG:CG	1:c:37:SER:HG	1.91	0.57
1:U:148:ILE:HG12	1:U:174:LEU:HD23	1.85	0.57
1:V:202:ARG:CZ	1:V:381:TRP:HE1	2.18	0.57
1:V:242:ILE:O	1:X:529:ASN:ND2	2.37	0.57
1:W:407:TRP:CE3	1:W:410:LYS:HG2	2.40	0.57
1:X:333:TYR:HE2	1:X:335:TRP:CE3	2.23	0.57
1:0:59:HIS:HE1	1:0:515:LYS:HZ1	1.53	0.57
1:0:333:TYR:HE2	1:0:335:TRP:CE3	2.23	0.57
1:2:202:ARG:CZ	1:2:381:TRP:HE1	2.18	0.57
1:5:424:ALA:HA	1:b:94:ARG:HH11	1.70	0.57
1:c:333:TYR:HE2	1:c:335:TRP:CE3	2.23	0.57
1:e:97:ILE:HG21	1:e:340:ILE:CD1	2.34	0.57
1:e:407:TRP:CE3	1:e:410:LYS:HG2	2.40	0.57
1:f:202:ARG:CZ	1:f:381:TRP:HE1	2.18	0.57
1:h:202:ARG:CZ	1:h:381:TRP:HE1	2.18	0.57
1:h:333:TYR:HE2	1:h:335:TRP:CE3	2.23	0.57
1:i:386:ASP:N	1:i:387:GLN:HA	2.19	0.57
1:j:244:PHE:CE2	1:j:246:PRO:CB	2.76	0.57
1:j:380:ASP:OD1	1:j:391:ARG:NH2	2.30	0.57
1:l:276:LEU:O	1:l:561:ARG:N	2.35	0.57
1:m:247:LEU:O	1:m:248:GLU:CB	2.42	0.57
1:n:202:ARG:CZ	1:n:381:TRP:HE1	2.18	0.57
1:n:386:ASP:N	1:n:387:GLN:HA	2.19	0.57
1:o:70:ASP:OD1	1:o:71:MET:N	2.36	0.57
1:p:37:SER:HG	1:q:257:ARG:CG	1.94	0.57
1:q:148:ILE:HG12	1:q:174:LEU:HD23	1.85	0.57
1:r:386:ASP:N	1:r:387:GLN:HA	2.19	0.57
1:r:527:GLN:NE2	1:s:243:GLN:HG2	2.19	0.57
1:u:333:TYR:HE2	1:u:335:TRP:CE3	2.23	0.57
1:w:244:PHE:CD2	1:w:246:PRO:HD3	2.39	0.57
1:w:407:TRP:CE3	1:w:410:LYS:HG2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:202:ARG:CZ	1:7:381:TRP:HE1	2.18	0.57
1:A:404:GLN:HE22	1:A:443:ASP:H	1.50	0.57
1:D:257:ARG:CG	1:E:37:SER:HG	1.94	0.57
1:D:333:TYR:HE2	1:D:335:TRP:CE3	2.23	0.57
1:H:386:ASP:N	1:H:387:GLN:HA	2.19	0.57
1:K:97:ILE:HG21	1:K:340:ILE:CD1	2.34	0.57
1:M:333:TYR:HE2	1:M:335:TRP:CE3	2.23	0.57
1:M:380:ASP:OD1	1:M:391:ARG:NH2	2.30	0.57
1:N:333:TYR:HE2	1:N:335:TRP:CE3	2.23	0.57
1:N:527:GLN:NE2	1:P:243:GLN:HG2	2.19	0.57
1:O:243:GLN:HG2	1:h:527:GLN:NE2	2.20	0.57
1:Q:333:TYR:HE2	1:Q:335:TRP:CE3	2.23	0.57
1:Q:407:TRP:CE3	1:Q:410:LYS:HG2	2.40	0.57
1:R:529:ASN:ND2	1:S:242:ILE:O	2.37	0.57
1:S:70:ASP:OD1	1:S:71:MET:N	2.36	0.57
1:U:407:TRP:CE3	1:U:410:LYS:HG2	2.40	0.57
1:0:529:ASN:ND2	1:7:242:ILE:O	2.37	0.57
1:1:407:TRP:CE3	1:1:410:LYS:HG2	2.40	0.57
1:a:386:ASP:N	1:a:387:GLN:HA	2.19	0.57
1:b:388:GLN:N	1:b:389:GLY:HA2	2.18	0.57
1:c:316:ARG:HH21	1:d:98:ASN:HB2	1.67	0.57
1:h:59:HIS:HE1	1:h:515:LYS:HZ1	1.53	0.57
1:j:276:LEU:O	1:j:561:ARG:N	2.35	0.57
1:k:316:ARG:HH21	1:l:98:ASN:HB2	1.67	0.57
1:n:333:TYR:HE2	1:n:335:TRP:CE3	2.23	0.57
1:n:407:TRP:CE3	1:n:410:LYS:HG2	2.40	0.57
1:p:386:ASP:N	1:p:387:GLN:HA	2.19	0.57
1:q:242:ILE:O	1:s:529:ASN:ND2	2.37	0.57
1:r:202:ARG:CZ	1:r:381:TRP:HE1	2.18	0.57
1:u:529:ASN:ND2	1:v:242:ILE:O	2.37	0.57
1:w:247:LEU:O	1:w:248:GLU:CB	2.42	0.57
1:w:284:ARG:HG2	1:w:284:ARG:O	2.02	0.57
1:z:333:TYR:HE2	1:z:335:TRP:CE3	2.23	0.57
1:6:333:TYR:HE2	1:6:335:TRP:CE3	2.23	0.57
1:6:407:TRP:CE3	1:6:410:LYS:HG2	2.40	0.57
1:C:202:ARG:CZ	1:C:381:TRP:HE1	2.18	0.56
1:C:243:GLN:HG2	1:M:527:GLN:NE2	2.20	0.56
1:E:242:ILE:O	1:F:529:ASN:ND2	2.37	0.56
1:F:70:ASP:OD1	1:F:71:MET:N	2.36	0.56
1:F:243:GLN:HG2	1:Q:527:GLN:NE2	2.19	0.56
1:G:333:TYR:HE2	1:G:335:TRP:CE3	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:202:ARG:CZ	1:J:381:TRP:HE1	2.18	0.56
1:L:380:ASP:OD1	1:L:391:ARG:NH2	2.30	0.56
1:L:388:GLN:N	1:L:389:GLY:HA2	2.18	0.56
1:O:85:PHE:HD1	1:O:99:ASP:HB3	1.68	0.56
1:O:98:ASN:CB	1:h:316:ARG:HH22	1.92	0.56
1:O:333:TYR:HE2	1:O:335:TRP:CE3	2.23	0.56
1:O:386:ASP:N	1:O:387:GLN:HA	2.19	0.56
1:O:431:SER:OG	1:O:433:HIS:CE1	2.58	0.56
1:R:300:GLY:HA2	1:R:301:GLN:CB	2.33	0.56
1:U:386:ASP:N	1:U:387:GLN:HA	2.19	0.56
1:V:97:ILE:HG21	1:V:340:ILE:CD1	2.34	0.56
1:X:85:PHE:HD1	1:X:99:ASP:HB3	1.68	0.56
1:0:527:GLN:NE2	1:7:243:GLN:HG2	2.20	0.56
1:5:202:ARG:CZ	1:5:381:TRP:HE1	2.18	0.56
1:b:97:ILE:HG21	1:b:340:ILE:CD1	2.34	0.56
1:b:380:ASP:OD1	1:b:391:ARG:NH2	2.30	0.56
1:c:386:ASP:N	1:c:387:GLN:HA	2.19	0.56
1:c:407:TRP:CE3	1:c:410:LYS:HG2	2.40	0.56
1:d:300:GLY:HA2	1:d:301:GLN:CB	2.33	0.56
1:e:202:ARG:CZ	1:e:381:TRP:HE1	2.18	0.56
1:k:431:SER:OG	1:k:433:HIS:CE1	2.58	0.56
1:m:59:HIS:HE1	1:m:515:LYS:HZ1	1.53	0.56
1:m:380:ASP:OD1	1:m:391:ARG:NH2	2.30	0.56
1:n:244:PHE:HE2	1:n:246:PRO:HB3	1.63	0.56
1:q:333:TYR:HE2	1:q:335:TRP:CE3	2.23	0.56
1:r:316:ARG:HH21	1:s:98:ASN:HB2	1.67	0.56
1:r:333:TYR:HE2	1:r:335:TRP:CE3	2.23	0.56
1:t:257:ARG:CG	1:x:37:SER:HG	1.98	0.56
1:u:244:PHE:CD2	1:u:246:PRO:HD3	2.39	0.56
1:u:431:SER:OG	1:u:433:HIS:CE1	2.58	0.56
1:v:407:TRP:CE3	1:v:410:LYS:HG2	2.40	0.56
1:x:386:ASP:N	1:x:387:GLN:HA	2.19	0.56
1:y:529:ASN:ND2	1:z:242:ILE:O	2.37	0.56
1:7:97:ILE:HG21	1:7:340:ILE:CD1	2.34	0.56
1:A:431:SER:OG	1:A:433:HIS:CE1	2.58	0.56
1:A:528:TRP:CG	1:G:246:PRO:HG3	2.38	0.56
1:B:386:ASP:N	1:B:387:GLN:HA	2.19	0.56
1:D:109:TRP:HZ3	1:D:485:LYS:HB3	1.67	0.56
1:D:242:ILE:O	1:P:529:ASN:ND2	2.37	0.56
1:D:246:PRO:HG3	1:P:528:TRP:HB3	1.85	0.56
1:G:407:TRP:CE3	1:G:410:LYS:HG2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:407:TRP:CE3	1:H:410:LYS:HG2	2.40	0.56
1:I:407:TRP:CE3	1:I:410:LYS:HG2	2.40	0.56
1:L:97:ILE:HG21	1:L:340:ILE:CD1	2.34	0.56
1:M:242:ILE:O	1:1:529:ASN:ND2	2.37	0.56
1:M:407:TRP:CE3	1:M:410:LYS:HG2	2.40	0.56
1:N:202:ARG:CZ	1:N:381:TRP:HE1	2.18	0.56
1:O:316:ARG:HH21	1:g:98:ASN:HB2	1.67	0.56
1:Q:148:ILE:HG12	1:Q:174:LEU:HD23	1.85	0.56
1:Q:244:PHE:HE2	1:Q:246:PRO:HB3	1.63	0.56
1:T:386:ASP:N	1:T:387:GLN:HA	2.20	0.56
1:V:243:GLN:HG2	1:X:527:GLN:NE2	2.19	0.56
1:V:407:TRP:CE3	1:V:410:LYS:HG2	2.40	0.56
1:W:284:ARG:HG2	1:W:284:ARG:O	2.02	0.56
1:1:386:ASP:N	1:1:387:GLN:HA	2.19	0.56
1:3:244:PHE:CE2	1:3:246:PRO:CB	2.76	0.56
1:3:276:LEU:O	1:3:561:ARG:N	2.35	0.56
1:4:202:ARG:CZ	1:4:381:TRP:HE1	2.18	0.56
1:5:242:ILE:O	1:a:529:ASN:ND2	2.38	0.56
1:c:529:ASN:ND2	1:d:242:ILE:O	2.37	0.56
1:d:37:SER:CB	1:r:257:ARG:CG	2.72	0.56
1:d:333:TYR:HE2	1:d:335:TRP:CE3	2.23	0.56
1:d:527:GLN:NE2	1:e:243:GLN:HG2	2.19	0.56
1:e:333:TYR:HE2	1:e:335:TRP:CE3	2.23	0.56
1:g:333:TYR:HE2	1:g:335:TRP:CE3	2.23	0.56
1:i:407:TRP:CE3	1:i:410:LYS:HG2	2.40	0.56
1:k:333:TYR:HE2	1:k:335:TRP:CE3	2.23	0.56
1:l:407:TRP:CE3	1:l:410:LYS:HG2	2.40	0.56
1:n:257:ARG:HG2	1:s:37:SER:CA	2.32	0.56
1:n:527:GLN:NE2	1:o:243:GLN:HG2	2.19	0.56
1:o:289:CYS:HB2	1:p:104:LYS:HE2	1.85	0.56
1:o:529:ASN:ND2	1:p:242:ILE:O	2.37	0.56
1:t:300:GLY:HA2	1:t:301:GLN:CB	2.33	0.56
1:v:333:TYR:HE2	1:v:335:TRP:CE3	2.23	0.56
1:v:386:ASP:N	1:v:387:GLN:HA	2.19	0.56
1:x:407:TRP:CE3	1:x:410:LYS:HG2	2.40	0.56
1:7:407:TRP:CE3	1:7:410:LYS:HG2	2.40	0.56
1:A:202:ARG:CZ	1:A:381:TRP:HE1	2.18	0.56
1:A:407:TRP:CE3	1:A:410:LYS:HG2	2.40	0.56
1:C:333:TYR:HE2	1:C:335:TRP:CE3	2.23	0.56
1:E:243:GLN:HG2	1:F:527:GLN:NE2	2.20	0.56
1:E:333:TYR:HE2	1:E:335:TRP:CE3	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:333:TYR:HE2	1:F:335:TRP:CE3	2.23	0.56
1:G:62:ARG:HH12	1:G:119:VAL:HA	1.71	0.56
1:G:431:SER:OG	1:G:433:HIS:CE1	2.58	0.56
1:I:202:ARG:CZ	1:I:381:TRP:HE1	2.18	0.56
1:I:431:SER:OG	1:I:433:HIS:CE1	2.58	0.56
1:J:247:LEU:O	1:J:248:GLU:CB	2.42	0.56
1:J:333:TYR:HE2	1:J:335:TRP:CE3	2.23	0.56
1:K:202:ARG:CZ	1:K:381:TRP:HE1	2.18	0.56
1:K:386:ASP:N	1:K:387:GLN:HA	2.19	0.56
1:L:407:TRP:CE3	1:L:410:LYS:HG2	2.40	0.56
1:M:98:ASN:HB2	1:1:316:ARG:HH21	1.67	0.56
1:M:246:PRO:HG3	1:1:528:TRP:HB3	1.85	0.56
1:M:300:GLY:HA2	1:M:301:GLN:CB	2.33	0.56
1:N:59:HIS:HE1	1:N:515:LYS:HZ1	1.54	0.56
1:N:316:ARG:HH21	1:P:98:ASN:HB2	1.67	0.56
1:N:316:ARG:HH22	1:P:98:ASN:CB	1.92	0.56
1:Q:109:TRP:HZ3	1:Q:485:LYS:HB3	1.67	0.56
1:S:202:ARG:CZ	1:S:381:TRP:HE1	2.18	0.56
1:T:407:TRP:CE3	1:T:410:LYS:HG2	2.40	0.56
1:U:109:TRP:HZ3	1:U:485:LYS:HB3	1.67	0.56
1:U:202:ARG:CZ	1:U:381:TRP:HE1	2.18	0.56
1:W:247:LEU:O	1:W:248:GLU:CB	2.42	0.56
1:X:37:SER:CB	1:Y:257:ARG:CG	2.74	0.56
1:Y:333:TYR:HE2	1:Y:335:TRP:CE3	2.23	0.56
1:Y:431:SER:OG	1:Y:433:HIS:CE1	2.58	0.56
1:Z:333:TYR:HE2	1:Z:335:TRP:CE3	2.23	0.56
1:Z:431:SER:OG	1:Z:433:HIS:CE1	2.58	0.56
1:0:85:PHE:HD1	1:0:99:ASP:HB3	1.68	0.56
1:1:109:TRP:HZ3	1:1:485:LYS:HB3	1.67	0.56
1:1:380:ASP:OD1	1:1:391:ARG:NH2	2.30	0.56
1:2:333:TYR:HE2	1:2:335:TRP:CE3	2.23	0.56
1:4:100:SER:O	1:4:100:SER:OG	2.23	0.56
1:4:386:ASP:N	1:4:387:GLN:HA	2.19	0.56
1:5:243:GLN:HG2	1:a:527:GLN:NE2	2.21	0.56
1:5:333:TYR:HE2	1:5:335:TRP:CE3	2.23	0.56
1:a:338:TRP:CD1	1:b:417:LEU:HB2	2.40	0.56
1:b:407:TRP:CE3	1:b:410:LYS:HG2	2.40	0.56
1:c:109:TRP:HZ3	1:c:485:LYS:HB3	1.67	0.56
1:c:380:ASP:OD1	1:c:391:ARG:NH2	2.30	0.56
1:d:407:TRP:CE3	1:d:410:LYS:HG2	2.40	0.56
1:f:244:PHE:HE2	1:f:246:PRO:HB3	1.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:333:TYR:HE2	1:f:335:TRP:CE3	2.23	0.56
1:f:380:ASP:OD1	1:f:391:ARG:NH2	2.30	0.56
1:g:407:TRP:CE3	1:g:410:LYS:HG2	2.40	0.56
1:h:380:ASP:OD1	1:h:391:ARG:NH2	2.30	0.56
1:h:407:TRP:CE3	1:h:410:LYS:HG2	2.40	0.56
1:k:243:GLN:HG2	1:m:527:GLN:NE2	2.20	0.56
1:l:333:TYR:HE2	1:l:335:TRP:CE3	2.23	0.56
1:l:431:SER:OG	1:l:433:HIS:CE1	2.58	0.56
1:m:407:TRP:CE3	1:m:410:LYS:HG2	2.40	0.56
1:n:148:ILE:HG12	1:n:174:LEU:HD23	1.85	0.56
1:o:333:TYR:HE2	1:o:335:TRP:CE3	2.23	0.56
1:p:96:THR:HG1	1:p:342:TYR:HH	1.09	0.56
1:p:333:TYR:HE2	1:p:335:TRP:CE3	2.23	0.56
1:s:386:ASP:N	1:s:387:GLN:HA	2.19	0.56
1:t:407:TRP:CE3	1:t:410:LYS:HG2	2.40	0.56
1:t:431:SER:OG	1:t:433:HIS:CE1	2.58	0.56
1:u:202:ARG:CZ	1:u:381:TRP:HE1	2.18	0.56
1:u:407:TRP:CE3	1:u:410:LYS:HG2	2.40	0.56
1:v:431:SER:OG	1:v:433:HIS:CE1	2.58	0.56
1:y:247:LEU:O	1:y:248:GLU:CB	2.42	0.56
1:z:59:HIS:HE1	1:z:515:LYS:HZ1	1.54	0.56
1:z:202:ARG:CZ	1:z:381:TRP:HE1	2.18	0.56
1:6:202:ARG:CZ	1:6:381:TRP:HE1	2.18	0.56
1:B:431:SER:OG	1:B:433:HIS:CE1	2.58	0.56
1:D:386:ASP:N	1:D:387:GLN:HA	2.19	0.56
1:D:407:TRP:CE3	1:D:410:LYS:HG2	2.40	0.56
1:E:407:TRP:CE3	1:E:410:LYS:HG2	2.40	0.56
1:F:386:ASP:N	1:F:387:GLN:HA	2.19	0.56
1:G:70:ASP:OD1	1:G:71:MET:N	2.36	0.56
1:G:202:ARG:CZ	1:G:381:TRP:HE1	2.18	0.56
1:G:386:ASP:N	1:G:387:GLN:HA	2.20	0.56
1:P:386:ASP:N	1:P:387:GLN:HA	2.20	0.56
1:R:247:LEU:O	1:R:248:GLU:CB	2.42	0.56
1:T:62:ARG:HH12	1:T:119:VAL:HA	1.71	0.56
1:X:407:TRP:CE3	1:X:410:LYS:HG2	2.40	0.56
1:0:316:ARG:HH21	1:7:98:ASN:HB2	1.67	0.56
1:0:407:TRP:CE3	1:0:410:LYS:HG2	2.40	0.56
1:a:339:GLN:HA	1:b:413:HIS:HA	1.87	0.56
1:c:202:ARG:CZ	1:c:381:TRP:HE1	2.18	0.56
1:c:528:TRP:HB3	1:d:246:PRO:HG3	1.85	0.56
1:g:202:ARG:CZ	1:g:381:TRP:HE1	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:407:TRP:CE3	1:j:410:LYS:HG2	2.40	0.56
1:n:109:TRP:HZ3	1:n:485:LYS:HB3	1.67	0.56
1:n:243:GLN:HG2	1:p:527:GLN:NE2	2.20	0.56
1:p:407:TRP:CE3	1:p:410:LYS:HG2	2.40	0.56
1:q:246:PRO:HG3	1:s:528:TRP:HB3	1.85	0.56
1:s:202:ARG:CZ	1:s:381:TRP:HE1	2.18	0.56
1:t:202:ARG:CZ	1:t:381:TRP:HE1	2.18	0.56
1:u:316:ARG:HH21	1:v:98:ASN:HB2	1.67	0.56
1:v:62:ARG:HH12	1:v:119:VAL:HA	1.71	0.56
1:v:70:ASP:OD1	1:v:71:MET:N	2.36	0.56
1:y:316:ARG:HH21	1:z:98:ASN:HB2	1.67	0.56
1:E:527:GLN:NE2	1:Q:243:GLN:HG2	2.20	0.56
1:I:333:TYR:HE2	1:I:335:TRP:CE3	2.23	0.56
1:I:380:ASP:OD1	1:I:391:ARG:NH2	2.30	0.56
1:L:431:SER:OG	1:L:433:HIS:CE1	2.58	0.56
1:M:109:TRP:HZ3	1:M:485:LYS:HB3	1.67	0.56
1:O:37:SER:CA	1:P:257:ARG:HG2	2.31	0.56
1:O:202:ARG:CZ	1:O:381:TRP:HE1	2.18	0.56
1:P:202:ARG:CZ	1:P:381:TRP:HE1	2.18	0.56
1:S:290:HIS:HD2	1:S:291:PRO:HD2	1.71	0.56
1:X:62:ARG:HH12	1:X:119:VAL:HA	1.71	0.56
1:0:431:SER:OG	1:0:433:HIS:CE1	2.58	0.56
1:3:333:TYR:HE2	1:3:335:TRP:CE3	2.23	0.56
1:3:407:TRP:CE3	1:3:410:LYS:HG2	2.40	0.56
1:a:431:SER:OG	1:a:433:HIS:CE1	2.58	0.56
1:g:431:SER:OG	1:g:433:HIS:CE1	2.58	0.56
1:i:528:TRP:CB	1:j:246:PRO:CG	2.65	0.56
1:j:300:GLY:HA2	1:j:301:GLN:CB	2.33	0.56
1:j:431:SER:OG	1:j:433:HIS:CE1	2.58	0.56
1:l:202:ARG:CZ	1:l:381:TRP:HE1	2.18	0.56
1:l:527:GLN:NE2	1:m:243:GLN:HG2	2.19	0.56
1:o:386:ASP:N	1:o:387:GLN:HA	2.19	0.56
1:o:527:GLN:NE2	1:p:243:GLN:HG2	2.20	0.56
1:q:386:ASP:N	1:q:387:GLN:HA	2.19	0.56
1:q:407:TRP:CE3	1:q:410:LYS:HG2	2.40	0.56
1:t:333:TYR:HE2	1:t:335:TRP:CE3	2.23	0.56
1:v:202:ARG:CZ	1:v:381:TRP:HE1	2.18	0.56
1:w:98:ASN:HA	1:x:323:SER:HG	1.70	0.56
1:y:431:SER:OG	1:y:433:HIS:CE1	2.58	0.56
1:C:431:SER:OG	1:C:433:HIS:CE1	2.58	0.56
1:H:37:SER:CB	1:I:257:ARG:CG	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:527:GLN:NE2	1:W:243:GLN:HG2	2.20	0.56
1:H:528:TRP:CG	1:W:246:PRO:HG3	2.41	0.56
1:J:290:HIS:HD2	1:J:291:PRO:HD2	1.71	0.56
1:R:316:ARG:HH21	1:S:98:ASN:HB2	1.67	0.56
1:R:431:SER:OG	1:R:433:HIS:CE1	2.58	0.56
1:U:62:ARG:HH12	1:U:119:VAL:HA	1.71	0.56
1:U:300:GLY:HA2	1:U:301:GLN:CB	2.33	0.56
1:W:202:ARG:CZ	1:W:381:TRP:HE1	2.18	0.56
1:W:333:TYR:HE2	1:W:335:TRP:CE3	2.23	0.56
1:X:431:SER:OG	1:X:433:HIS:CE1	2.58	0.56
1:Z:191:PHE:CE1	1:Z:470:HIS:HE1	2.16	0.56
1:0:62:ARG:HH12	1:0:119:VAL:HA	1.71	0.56
1:0:386:ASP:N	1:0:387:GLN:HA	2.19	0.56
1:1:202:ARG:CZ	1:1:381:TRP:HE1	2.18	0.56
1:2:244:PHE:HE2	1:2:246:PRO:HB3	1.63	0.56
1:2:407:TRP:CE3	1:2:410:LYS:HG2	2.40	0.56
1:3:431:SER:OG	1:3:433:HIS:CE1	2.58	0.56
1:5:290:HIS:HD2	1:5:291:PRO:HD2	1.71	0.56
1:5:308:ILE:N	1:b:391:ARG:HH12	2.03	0.56
1:b:59:HIS:HE1	1:b:515:LYS:HZ1	1.54	0.56
1:b:431:SER:OG	1:b:433:HIS:CE1	2.58	0.56
1:f:407:TRP:CE3	1:f:410:LYS:HG2	2.40	0.56
1:i:62:ARG:HH12	1:i:119:VAL:HA	1.71	0.56
1:i:202:ARG:CZ	1:i:381:TRP:HE1	2.18	0.56
1:j:333:TYR:HE2	1:j:335:TRP:CE3	2.23	0.56
1:k:37:SER:CA	1:s:257:ARG:HG2	2.31	0.56
1:k:202:ARG:CZ	1:k:381:TRP:HE1	2.18	0.56
1:t:386:ASP:N	1:t:387:GLN:HA	2.19	0.56
1:v:380:ASP:OD1	1:v:391:ARG:NH2	2.30	0.56
1:y:528:TRP:CG	1:z:246:PRO:HG3	2.41	0.56
1:z:290:HIS:HD2	1:z:291:PRO:HD2	1.71	0.56
1:6:62:ARG:HH12	1:6:119:VAL:HA	1.71	0.56
1:6:109:TRP:HZ3	1:6:485:LYS:HB3	1.67	0.56
1:7:333:TYR:HE2	1:7:335:TRP:CE3	2.23	0.56
1:H:62:ARG:HH12	1:H:119:VAL:HA	1.71	0.56
1:J:62:ARG:HH12	1:J:119:VAL:HA	1.71	0.56
1:J:528:TRP:HB3	1:L:246:PRO:HG3	1.86	0.56
1:K:62:ARG:HH12	1:K:119:VAL:HA	1.71	0.56
1:N:407:TRP:CE3	1:N:410:LYS:HG2	2.40	0.56
1:R:290:HIS:HD2	1:R:291:PRO:HD2	1.71	0.56
1:R:528:TRP:CG	1:S:246:PRO:HG3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:202:ARG:CZ	1:T:381:TRP:HE1	2.18	0.56
1:T:333:TYR:HE2	1:T:335:TRP:CE3	2.23	0.56
1:V:98:ASN:HB2	1:X:316:ARG:HH21	1.67	0.56
1:V:333:TYR:HE2	1:V:335:TRP:CE3	2.23	0.56
1:2:290:HIS:HD2	1:2:291:PRO:HD2	1.71	0.56
1:2:380:ASP:OD1	1:2:391:ARG:NH2	2.30	0.56
1:3:386:ASP:N	1:3:387:GLN:HA	2.19	0.56
1:5:62:ARG:HH12	1:5:119:VAL:HA	1.71	0.56
1:a:104:LYS:HE2	1:b:289:CYS:HB2	1.86	0.56
1:e:386:ASP:N	1:e:387:GLN:HA	2.19	0.56
1:e:431:SER:OG	1:e:433:HIS:CE1	2.58	0.56
1:g:386:ASP:N	1:g:387:GLN:HA	2.19	0.56
1:g:527:GLN:NE2	1:h:243:GLN:HG2	2.20	0.56
1:k:98:ASN:CB	1:m:316:ARG:HH22	1.92	0.56
1:l:386:ASP:N	1:l:387:GLN:HA	2.19	0.56
1:t:380:ASP:OD1	1:t:391:ARG:NH2	2.30	0.56
1:w:202:ARG:CZ	1:w:381:TRP:HE1	2.18	0.56
1:w:243:GLN:HG2	1:x:527:GLN:NE2	2.20	0.56
1:x:62:ARG:HH12	1:x:119:VAL:HA	1.71	0.56
1:y:202:ARG:CZ	1:y:381:TRP:HE1	2.18	0.56
1:y:290:HIS:HD2	1:y:291:PRO:HD2	1.71	0.56
1:6:300:GLY:HA2	1:6:301:GLN:CB	2.33	0.56
1:B:407:TRP:CE3	1:B:410:LYS:HG2	2.40	0.56
1:C:62:ARG:HH12	1:C:119:VAL:HA	1.71	0.56
1:C:290:HIS:HD2	1:C:291:PRO:HD2	1.71	0.56
1:C:386:ASP:N	1:C:387:GLN:HA	2.19	0.56
1:D:202:ARG:CZ	1:D:381:TRP:HE1	2.18	0.56
1:F:59:HIS:HE1	1:F:515:LYS:HZ1	1.54	0.56
1:F:100:SER:O	1:F:100:SER:OG	2.23	0.56
1:H:431:SER:OG	1:H:433:HIS:CE1	2.58	0.56
1:I:386:ASP:N	1:I:387:GLN:HA	2.20	0.56
1:K:290:HIS:HD2	1:K:291:PRO:HD2	1.71	0.56
1:L:62:ARG:HH12	1:L:119:VAL:HA	1.71	0.56
1:Q:62:ARG:HH12	1:Q:119:VAL:HA	1.71	0.56
1:S:431:SER:OG	1:S:433:HIS:CE1	2.58	0.56
1:W:316:ARG:HH21	1:Y:98:ASN:HB2	1.67	0.56
1:a:333:TYR:HE2	1:a:335:TRP:CE3	2.23	0.56
1:b:62:ARG:HH12	1:b:119:VAL:HA	1.71	0.56
1:d:62:ARG:HH12	1:d:119:VAL:HA	1.71	0.56
1:d:109:TRP:HZ3	1:d:485:LYS:HB3	1.67	0.56
1:f:290:HIS:HD2	1:f:291:PRO:HD2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:386:ASP:N	1:j:387:GLN:HA	2.19	0.56
1:q:202:ARG:CZ	1:q:381:TRP:HE1	2.18	0.56
1:q:431:SER:OG	1:q:433:HIS:CE1	2.58	0.56
1:r:407:TRP:CE3	1:r:410:LYS:HG2	2.40	0.56
1:t:257:ARG:CG	1:x:37:SER:CB	2.73	0.56
1:w:300:GLY:HA2	1:w:301:GLN:CB	2.33	0.56
1:w:333:TYR:HE2	1:w:335:TRP:CE3	2.23	0.56
1:z:316:ARG:HH21	1:6:98:ASN:HB2	1.67	0.56
1:6:431:SER:OG	1:6:433:HIS:CE1	2.58	0.56
1:A:62:ARG:HH12	1:A:119:VAL:HA	1.71	0.56
1:A:316:ARG:HH21	1:G:98:ASN:HB2	1.68	0.56
1:B:98:ASN:HB2	1:L:316:ARG:HH21	1.67	0.56
1:B:333:TYR:HE2	1:B:335:TRP:CE3	2.23	0.56
1:R:202:ARG:CZ	1:R:381:TRP:HE1	2.18	0.56
1:R:333:TYR:HE2	1:R:335:TRP:CE3	2.23	0.56
1:U:431:SER:OG	1:U:433:HIS:CE1	2.58	0.56
1:V:290:HIS:HD2	1:V:291:PRO:HD2	1.71	0.56
1:X:202:ARG:CZ	1:X:381:TRP:HE1	2.18	0.56
1:X:386:ASP:N	1:X:387:GLN:HA	2.20	0.56
1:Y:290:HIS:HD2	1:Y:291:PRO:HD2	1.71	0.56
1:Y:407:TRP:CE3	1:Y:410:LYS:HG2	2.40	0.56
1:2:62:ARG:HH12	1:2:119:VAL:HA	1.71	0.56
1:3:300:GLY:HA2	1:3:301:GLN:CB	2.33	0.56
1:3:528:TRP:CG	1:f:246:PRO:HG3	2.41	0.56
1:4:62:ARG:HH12	1:4:119:VAL:HA	1.71	0.56
1:4:101:TYR:C	1:4:101:TYR:CD2	2.84	0.56
1:4:290:HIS:HD2	1:4:291:PRO:HD2	1.71	0.56
1:4:333:TYR:HE2	1:4:335:TRP:CE3	2.23	0.56
1:4:407:TRP:CE3	1:4:410:LYS:HG2	2.40	0.56
1:5:528:TRP:CG	1:b:246:PRO:HG3	2.41	0.56
1:a:407:TRP:CE3	1:a:410:LYS:HG2	2.40	0.56
1:e:290:HIS:HD2	1:e:291:PRO:HD2	1.71	0.56
1:g:62:ARG:HH12	1:g:119:VAL:HA	1.71	0.56
1:i:333:TYR:HE2	1:i:335:TRP:CE3	2.23	0.56
1:k:407:TRP:CE3	1:k:410:LYS:HG2	2.40	0.56
1:n:62:ARG:HH12	1:n:119:VAL:HA	1.71	0.56
1:r:62:ARG:HH12	1:r:119:VAL:HA	1.71	0.56
1:w:290:HIS:HD2	1:w:291:PRO:HD2	1.71	0.56
1:x:431:SER:OG	1:x:433:HIS:CE1	2.58	0.56
1:y:407:TRP:CE3	1:y:410:LYS:HG2	2.40	0.56
1:z:431:SER:OG	1:z:433:HIS:CE1	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:290:HIS:HD2	1:7:291:PRO:HD2	1.71	0.56
1:D:246:PRO:HG3	1:P:528:TRP:CG	2.41	0.56
1:D:380:ASP:OD1	1:D:391:ARG:NH2	2.30	0.56
1:D:431:SER:OG	1:D:433:HIS:CE1	2.58	0.56
1:G:290:HIS:HD2	1:G:291:PRO:HD2	1.71	0.56
1:J:194:ASP:HB3	1:J:207:PRO:HB3	1.88	0.56
1:J:407:TRP:CE3	1:J:410:LYS:HG2	2.40	0.56
1:K:101:TYR:C	1:K:101:TYR:CD2	2.84	0.56
1:K:333:TYR:HE2	1:K:335:TRP:CE3	2.23	0.56
1:L:109:TRP:HZ3	1:L:485:LYS:HB3	1.67	0.56
1:O:407:TRP:CE3	1:O:410:LYS:HG2	2.40	0.56
1:P:407:TRP:CE3	1:P:410:LYS:HG2	2.40	0.56
1:R:386:ASP:N	1:R:387:GLN:HA	2.19	0.56
1:R:407:TRP:CE3	1:R:410:LYS:HG2	2.40	0.56
1:S:101:TYR:C	1:S:101:TYR:CD2	2.84	0.56
1:S:316:ARG:HH21	1:U:98:ASN:HB2	1.67	0.56
1:T:194:ASP:HB3	1:T:207:PRO:HB3	1.88	0.56
1:T:528:TRP:CB	1:3:246:PRO:CG	2.65	0.56
1:W:276:LEU:O	1:W:561:ARG:N	2.35	0.56
1:W:290:HIS:HD2	1:W:291:PRO:HD2	1.71	0.56
1:W:300:GLY:HA2	1:W:301:GLN:CB	2.33	0.56
1:Z:407:TRP:CE3	1:Z:410:LYS:HG2	2.40	0.56
1:0:202:ARG:CZ	1:0:381:TRP:HE1	2.18	0.56
1:1:70:ASP:OD1	1:1:71:MET:N	2.36	0.56
1:2:246:PRO:HG3	1:j:528:TRP:CG	2.41	0.56
1:3:62:ARG:HH12	1:3:119:VAL:HA	1.71	0.56
1:3:202:ARG:CZ	1:3:381:TRP:HE1	2.18	0.56
1:a:202:ARG:CZ	1:a:381:TRP:HE1	2.18	0.56
1:b:333:TYR:HE2	1:b:335:TRP:CE3	2.23	0.56
1:e:62:ARG:HH12	1:e:119:VAL:HA	1.71	0.56
1:f:62:ARG:HH12	1:f:119:VAL:HA	1.71	0.56
1:g:100:SER:O	1:g:100:SER:OG	2.23	0.56
1:h:386:ASP:N	1:h:387:GLN:HA	2.19	0.56
1:i:194:ASP:HB3	1:i:207:PRO:HB3	1.88	0.56
1:l:290:HIS:HD2	1:l:291:PRO:HD2	1.71	0.56
1:m:70:ASP:OD1	1:m:71:MET:N	2.36	0.56
1:o:62:ARG:HH12	1:o:119:VAL:HA	1.71	0.56
1:p:257:ARG:CG	1:u:37:SER:CB	2.73	0.56
1:q:246:PRO:HG3	1:s:528:TRP:CG	2.41	0.56
1:r:316:ARG:HH22	1:s:98:ASN:CB	1.92	0.56
1:s:101:TYR:CD2	1:s:101:TYR:C	2.84	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:62:ARG:HH12	1:u:119:VAL:HA	1.71	0.56
1:v:290:HIS:HD2	1:v:291:PRO:HD2	1.71	0.56
1:z:101:TYR:C	1:z:101:TYR:CD2	2.84	0.56
1:A:429:ARG:HH12	1:G:94:ARG:HH22	1.54	0.55
1:A:528:TRP:HB3	1:G:246:PRO:HG3	1.83	0.55
1:B:202:ARG:CZ	1:B:381:TRP:HE1	2.18	0.55
1:E:290:HIS:HD2	1:E:291:PRO:HD2	1.71	0.55
1:F:62:ARG:HH12	1:F:119:VAL:HA	1.71	0.55
1:G:380:ASP:OD1	1:G:391:ARG:NH2	2.30	0.55
1:K:246:PRO:HG3	1:7:528:TRP:CG	2.41	0.55
1:K:407:TRP:CE3	1:K:410:LYS:HG2	2.40	0.55
1:L:333:TYR:HE2	1:L:335:TRP:CE3	2.23	0.55
1:M:62:ARG:HH12	1:M:119:VAL:HA	1.71	0.55
1:N:62:ARG:HH12	1:N:119:VAL:HA	1.71	0.55
1:P:101:TYR:CD2	1:P:101:TYR:C	2.84	0.55
1:R:62:ARG:HH12	1:R:119:VAL:HA	1.71	0.55
1:S:194:ASP:HB3	1:S:207:PRO:HB3	1.88	0.55
1:V:528:TRP:CG	1:4:246:PRO:HG3	2.41	0.55
1:X:246:PRO:CG	1:4:528:TRP:CB	2.65	0.55
1:Z:290:HIS:HD2	1:Z:291:PRO:HD2	1.71	0.55
1:1:194:ASP:HB3	1:1:207:PRO:HB3	1.88	0.55
1:2:431:SER:OG	1:2:433:HIS:CE1	2.58	0.55
1:5:407:TRP:CE3	1:5:410:LYS:HG2	2.40	0.55
1:a:101:TYR:CD2	1:a:101:TYR:C	2.84	0.55
1:f:431:SER:OG	1:f:433:HIS:CE1	2.58	0.55
1:g:290:HIS:HD2	1:g:291:PRO:HD2	1.71	0.55
1:j:62:ARG:HH12	1:j:119:VAL:HA	1.71	0.55
1:j:202:ARG:CZ	1:j:381:TRP:HE1	2.18	0.55
1:k:62:ARG:HH12	1:k:119:VAL:HA	1.71	0.55
1:l:62:ARG:HH12	1:l:119:VAL:HA	1.71	0.55
1:s:290:HIS:HD2	1:s:291:PRO:HD2	1.71	0.55
1:s:407:TRP:CE3	1:s:410:LYS:HG2	2.40	0.55
1:t:290:HIS:HD2	1:t:291:PRO:HD2	1.71	0.55
1:y:333:TYR:HE2	1:y:335:TRP:CE3	2.23	0.55
1:B:101:TYR:CD2	1:B:101:TYR:C	2.84	0.55
1:B:194:ASP:HB3	1:B:207:PRO:HB3	1.88	0.55
1:H:202:ARG:CZ	1:H:381:TRP:HE1	2.18	0.55
1:I:290:HIS:HD2	1:I:291:PRO:HD2	1.71	0.55
1:J:101:TYR:CD2	1:J:101:TYR:C	2.84	0.55
1:K:37:SER:CB	1:L:257:ARG:CG	2.73	0.55
1:N:37:SER:HG	1:g:257:ARG:CG	1.97	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:194:ASP:HB3	1:N:207:PRO:HB3	1.89	0.55
1:O:246:PRO:CG	1:h:528:TRP:CB	2.65	0.55
1:O:528:TRP:CG	1:g:246:PRO:HG3	2.42	0.55
1:P:194:ASP:HB3	1:P:207:PRO:HB3	1.88	0.55
1:Q:100:SER:O	1:Q:100:SER:OG	2.23	0.55
1:S:407:TRP:CE3	1:S:410:LYS:HG2	2.40	0.55
1:V:62:ARG:HH12	1:V:119:VAL:HA	1.71	0.55
1:X:101:TYR:CD2	1:X:101:TYR:C	2.84	0.55
1:Y:191:PHE:CE1	1:Y:470:HIS:HE1	2.16	0.55
1:Y:202:ARG:CZ	1:Y:381:TRP:HE1	2.18	0.55
1:Z:98:ASN:HB2	1:w:316:ARG:HH21	1.67	0.55
1:Z:202:ARG:CZ	1:Z:381:TRP:HE1	2.18	0.55
1:0:101:TYR:C	1:0:101:TYR:CD2	2.84	0.55
1:5:101:TYR:CD2	1:5:101:TYR:C	2.84	0.55
1:5:194:ASP:HB3	1:5:207:PRO:HB3	1.89	0.55
1:5:257:ARG:HG2	1:t:37:SER:CA	2.31	0.55
1:5:528:TRP:CB	1:b:246:PRO:CG	2.66	0.55
1:a:194:ASP:HB3	1:a:207:PRO:HB3	1.89	0.55
1:b:109:TRP:HZ3	1:b:485:LYS:HB3	1.67	0.55
1:c:70:ASP:OD1	1:c:71:MET:N	2.36	0.55
1:c:194:ASP:HB3	1:c:207:PRO:HB3	1.88	0.55
1:g:101:TYR:CD2	1:g:101:TYR:C	2.84	0.55
1:h:70:ASP:OD1	1:h:71:MET:N	2.36	0.55
1:h:290:HIS:HD2	1:h:291:PRO:HD2	1.71	0.55
1:k:528:TRP:CG	1:l:246:PRO:HG3	2.41	0.55
1:l:101:TYR:CD2	1:l:101:TYR:C	2.84	0.55
1:m:290:HIS:HD2	1:m:291:PRO:HD2	1.71	0.55
1:m:386:ASP:N	1:m:387:GLN:HA	2.19	0.55
1:n:300:GLY:HA2	1:n:301:GLN:CB	2.33	0.55
1:p:191:PHE:CE1	1:p:470:HIS:HE1	2.16	0.55
1:p:290:HIS:HD2	1:p:291:PRO:HD2	1.71	0.55
1:r:194:ASP:HB3	1:r:207:PRO:HB3	1.89	0.55
1:s:194:ASP:HB3	1:s:207:PRO:HB3	1.89	0.55
1:x:202:ARG:CZ	1:x:381:TRP:HE1	2.18	0.55
1:y:386:ASP:N	1:y:387:GLN:HA	2.19	0.55
1:z:194:ASP:HB3	1:z:207:PRO:HB3	1.88	0.55
1:z:244:PHE:HE2	1:z:246:PRO:HB3	1.63	0.55
1:7:62:ARG:HH12	1:7:119:VAL:HA	1.71	0.55
1:E:191:PHE:CE1	1:E:470:HIS:HE1	2.16	0.55
1:E:528:TRP:CG	1:Q:246:PRO:HG3	2.41	0.55
1:I:134:ARG:HG3	1:I:135:GLU:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:134:ARG:HG3	1:M:135:GLU:OE1	2.07	0.55
1:M:257:ARG:CG	1:2:37:SER:CB	2.73	0.55
1:N:528:TRP:CG	1:P:246:PRO:HG3	2.41	0.55
1:O:194:ASP:HB3	1:O:207:PRO:HB3	1.88	0.55
1:P:290:HIS:HD2	1:P:291:PRO:HD2	1.71	0.55
1:S:300:GLY:HA2	1:S:301:GLN:CB	2.33	0.55
1:Y:37:SER:HG	1:x:257:ARG:CG	1.95	0.55
1:1:290:HIS:HD2	1:1:291:PRO:HD2	1.71	0.55
1:d:59:HIS:HE1	1:d:515:LYS:HZ1	1.55	0.55
1:d:134:ARG:HG3	1:d:135:GLU:OE1	2.07	0.55
1:h:300:GLY:HA2	1:h:301:GLN:CB	2.33	0.55
1:l:100:SER:O	1:l:100:SER:OG	2.23	0.55
1:n:100:SER:O	1:n:100:SER:OG	2.23	0.55
1:r:528:TRP:CG	1:s:246:PRO:HG3	2.41	0.55
1:t:134:ARG:HG3	1:t:135:GLU:OE1	2.07	0.55
1:w:134:ARG:HG3	1:w:135:GLU:OE1	2.07	0.55
1:y:62:ARG:HH12	1:y:119:VAL:HA	1.71	0.55
1:z:300:GLY:HA2	1:z:301:GLN:CB	2.33	0.55
1:C:101:TYR:C	1:C:101:TYR:CD2	2.84	0.55
1:C:246:PRO:HG3	1:M:528:TRP:CG	2.41	0.55
1:E:134:ARG:HG3	1:E:135:GLU:OE1	2.07	0.55
1:F:257:ARG:HG2	1:R:37:SER:CA	2.31	0.55
1:F:290:HIS:HD2	1:F:291:PRO:HD2	1.71	0.55
1:G:37:SER:HG	1:W:257:ARG:N	2.05	0.55
1:H:300:GLY:HA2	1:H:301:GLN:CB	2.33	0.55
1:I:194:ASP:HB3	1:I:207:PRO:HB3	1.89	0.55
1:J:186:TRP:CZ2	1:J:188:ALA:HB3	2.42	0.55
1:J:431:SER:OG	1:J:433:HIS:CE1	2.58	0.55
1:K:528:TRP:CB	1:0:246:PRO:CG	2.65	0.55
1:N:101:TYR:CD2	1:N:101:TYR:C	2.84	0.55
1:Q:101:TYR:CD2	1:Q:101:TYR:C	2.84	0.55
1:Q:300:GLY:HA2	1:Q:301:GLN:CB	2.33	0.55
1:T:101:TYR:CD2	1:T:101:TYR:C	2.84	0.55
1:T:186:TRP:CZ2	1:T:188:ALA:HB3	2.42	0.55
1:T:290:HIS:HD2	1:T:291:PRO:HD2	1.71	0.55
1:U:186:TRP:CZ2	1:U:188:ALA:HB3	2.42	0.55
1:V:70:ASP:OD1	1:V:71:MET:N	2.36	0.55
1:W:134:ARG:HG3	1:W:135:GLU:OE1	2.07	0.55
1:W:386:ASP:N	1:W:387:GLN:HA	2.19	0.55
1:X:194:ASP:HB3	1:X:207:PRO:HB3	1.88	0.55
1:1:134:ARG:HG3	1:1:135:GLU:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:290:HIS:HD2	1:3:291:PRO:HD2	1.71	0.55
1:5:186:TRP:CZ2	1:5:188:ALA:HB3	2.42	0.55
1:c:134:ARG:HG3	1:c:135:GLU:OE1	2.07	0.55
1:c:290:HIS:HD2	1:c:291:PRO:HD2	1.71	0.55
1:g:300:GLY:HA2	1:g:301:GLN:CB	2.33	0.55
1:i:101:TYR:CD2	1:i:101:TYR:C	2.84	0.55
1:i:186:TRP:CZ2	1:i:188:ALA:HB3	2.42	0.55
1:j:134:ARG:HG3	1:j:135:GLU:OE1	2.07	0.55
1:j:290:HIS:HD2	1:j:291:PRO:HD2	1.71	0.55
1:k:186:TRP:CZ2	1:k:188:ALA:HB3	2.42	0.55
1:k:194:ASP:HB3	1:k:207:PRO:HB3	1.89	0.55
1:m:194:ASP:HB3	1:m:207:PRO:HB3	1.88	0.55
1:m:300:GLY:HA2	1:m:301:GLN:CB	2.33	0.55
1:n:246:PRO:HG3	1:p:528:TRP:CG	2.42	0.55
1:o:37:SER:CB	1:v:257:ARG:CG	2.73	0.55
1:p:70:ASP:OD1	1:p:71:MET:N	2.36	0.55
1:p:134:ARG:HG3	1:p:135:GLU:OE1	2.07	0.55
1:q:380:ASP:OD1	1:q:391:ARG:NH2	2.30	0.55
1:r:101:TYR:C	1:r:101:TYR:CD2	2.84	0.55
1:r:290:HIS:HD2	1:r:291:PRO:HD2	1.71	0.55
1:v:186:TRP:CZ2	1:v:188:ALA:HB3	2.42	0.55
1:w:276:LEU:O	1:w:561:ARG:N	2.35	0.55
1:z:407:TRP:CE3	1:z:410:LYS:HG2	2.40	0.55
1:6:186:TRP:CZ2	1:6:188:ALA:HB3	2.42	0.55
1:B:62:ARG:HH12	1:B:119:VAL:HA	1.71	0.55
1:D:62:ARG:HH12	1:D:119:VAL:HA	1.71	0.55
1:G:186:TRP:CZ2	1:G:188:ALA:HB3	2.42	0.55
1:L:134:ARG:HG3	1:L:135:GLU:OE1	2.07	0.55
1:M:186:TRP:CZ2	1:M:188:ALA:HB3	2.42	0.55
1:N:134:ARG:HG3	1:N:135:GLU:OE1	2.07	0.55
1:O:62:ARG:HH12	1:O:119:VAL:HA	1.71	0.55
1:O:186:TRP:CZ2	1:O:188:ALA:HB3	2.42	0.55
1:S:244:PHE:HE2	1:S:246:PRO:HB3	1.63	0.55
1:T:431:SER:OG	1:T:433:HIS:CE1	2.58	0.55
1:W:101:TYR:C	1:W:101:TYR:CD2	2.84	0.55
1:X:186:TRP:CZ2	1:X:188:ALA:HB3	2.42	0.55
1:0:186:TRP:CZ2	1:0:188:ALA:HB3	2.42	0.55
1:2:101:TYR:CD2	1:2:101:TYR:C	2.84	0.55
1:5:431:SER:OG	1:5:433:HIS:CE1	2.58	0.55
1:b:134:ARG:HG3	1:b:135:GLU:OE1	2.07	0.55
1:c:101:TYR:C	1:c:101:TYR:CD2	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:101:TYR:CD2	1:e:101:TYR:C	2.84	0.55
1:h:194:ASP:HB3	1:h:207:PRO:HB3	1.88	0.55
1:i:431:SER:OG	1:i:433:HIS:CE1	2.58	0.55
1:n:101:TYR:C	1:n:101:TYR:CD2	2.84	0.55
1:o:257:ARG:HG2	1:y:37:SER:CA	2.31	0.55
1:t:194:ASP:HB3	1:t:207:PRO:HB3	1.88	0.55
1:w:101:TYR:CD2	1:w:101:TYR:C	2.84	0.55
1:x:300:GLY:HA2	1:x:301:GLN:CB	2.33	0.55
1:z:134:ARG:HG3	1:z:135:GLU:OE1	2.07	0.55
1:A:109:TRP:HZ3	1:A:485:LYS:HB3	1.67	0.55
1:B:186:TRP:CZ2	1:B:188:ALA:HB3	2.42	0.55
1:D:528:TRP:CG	1:N:246:PRO:HG3	2.41	0.55
1:E:70:ASP:OD1	1:E:71:MET:N	2.36	0.55
1:E:101:TYR:CD2	1:E:101:TYR:C	2.84	0.55
1:F:246:PRO:CG	1:Q:528:TRP:CB	2.65	0.55
1:F:450:PRO:HD2	1:F:451:TRP:CZ3	2.42	0.55
1:H:186:TRP:CZ2	1:H:188:ALA:HB3	2.42	0.55
1:K:186:TRP:CZ2	1:K:188:ALA:HB3	2.42	0.55
1:K:450:PRO:HD2	1:K:451:TRP:CZ3	2.42	0.55
1:L:290:HIS:HD2	1:L:291:PRO:HD2	1.71	0.55
1:M:194:ASP:HB3	1:M:207:PRO:HB3	1.88	0.55
1:N:290:HIS:HD2	1:N:291:PRO:HD2	1.71	0.55
1:Q:186:TRP:CZ2	1:Q:188:ALA:HB3	2.42	0.55
1:Q:450:PRO:HD2	1:Q:451:TRP:CZ3	2.42	0.55
1:S:37:SER:CA	1:3:257:ARG:HG2	2.32	0.55
1:S:134:ARG:HG3	1:S:135:GLU:OE1	2.07	0.55
1:V:186:TRP:CZ2	1:V:188:ALA:HB3	2.42	0.55
1:W:450:PRO:HD2	1:W:451:TRP:CZ3	2.42	0.55
1:Y:194:ASP:HB3	1:Y:207:PRO:HB3	1.88	0.55
1:Z:528:TRP:HB3	1:x:246:PRO:HG3	1.86	0.55
1:0:194:ASP:HB3	1:0:207:PRO:HB3	1.89	0.55
1:1:37:SER:HG	1:i:257:ARG:CG	1.92	0.55
1:4:300:GLY:HA2	1:4:301:GLN:CB	2.33	0.55
1:5:415:SER:C	1:b:371:GLN:HE22	2.15	0.55
1:b:290:HIS:HD2	1:b:291:PRO:HD2	1.71	0.55
1:d:186:TRP:CZ2	1:d:188:ALA:HB3	2.42	0.55
1:f:101:TYR:C	1:f:101:TYR:CD2	2.85	0.55
1:h:450:PRO:HD2	1:h:451:TRP:CZ3	2.42	0.55
1:i:290:HIS:HD2	1:i:291:PRO:HD2	1.71	0.55
1:m:450:PRO:HD2	1:m:451:TRP:CZ3	2.42	0.55
1:n:290:HIS:HD2	1:n:291:PRO:HD2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:450:PRO:HD2	1:n:451:TRP:CZ3	2.42	0.55
1:o:290:HIS:HD2	1:o:291:PRO:HD2	1.71	0.55
1:o:316:ARG:HH21	1:p:98:ASN:HB2	1.67	0.55
1:o:528:TRP:CG	1:p:246:PRO:HG3	2.41	0.55
1:p:101:TYR:CD2	1:p:101:TYR:C	2.84	0.55
1:r:134:ARG:HG3	1:r:135:GLU:OE1	2.07	0.55
1:r:431:SER:OG	1:r:433:HIS:CE1	2.58	0.55
1:t:186:TRP:CZ2	1:t:188:ALA:HB3	2.42	0.55
1:v:134:ARG:HG3	1:v:135:GLU:OE1	2.07	0.55
1:w:386:ASP:N	1:w:387:GLN:HA	2.19	0.55
1:w:450:PRO:HD2	1:w:451:TRP:CZ3	2.42	0.55
1:7:186:TRP:CZ2	1:7:188:ALA:HB3	2.42	0.55
1:A:450:PRO:HD2	1:A:451:TRP:CZ3	2.42	0.55
1:C:257:ARG:HG2	1:D:37:SER:CA	2.32	0.55
1:E:246:PRO:HG3	1:F:528:TRP:CG	2.41	0.55
1:H:290:HIS:HD2	1:H:291:PRO:HD2	1.71	0.55
1:I:37:SER:CA	1:J:257:ARG:HG2	2.31	0.55
1:I:101:TYR:CD2	1:I:101:TYR:C	2.84	0.55
1:I:186:TRP:CZ2	1:I:188:ALA:HB3	2.42	0.55
1:J:450:PRO:HD2	1:J:451:TRP:CZ3	2.42	0.55
1:M:450:PRO:HD2	1:M:451:TRP:CZ3	2.42	0.55
1:N:186:TRP:CZ2	1:N:188:ALA:HB3	2.42	0.55
1:T:429:ARG:HH12	1:3:94:ARG:HH22	1.55	0.55
1:U:290:HIS:HD2	1:U:291:PRO:HD2	1.71	0.55
1:0:450:PRO:HD2	1:0:451:TRP:CZ3	2.42	0.55
1:1:101:TYR:CD2	1:1:101:TYR:C	2.84	0.55
1:2:194:ASP:HB3	1:2:207:PRO:HB3	1.88	0.55
1:3:134:ARG:HG3	1:3:135:GLU:OE1	2.07	0.55
1:4:450:PRO:HD2	1:4:451:TRP:CZ3	2.42	0.55
1:5:316:ARG:HH21	1:b:98:ASN:HB2	1.67	0.55
1:5:450:PRO:HD2	1:5:451:TRP:CZ3	2.42	0.55
1:a:62:ARG:HH12	1:a:119:VAL:HA	1.71	0.55
1:a:186:TRP:CZ2	1:a:188:ALA:HB3	2.42	0.55
1:b:450:PRO:HD2	1:b:451:TRP:CZ3	2.42	0.55
1:d:194:ASP:HB3	1:d:207:PRO:HB3	1.89	0.55
1:d:257:ARG:CG	1:f:37:SER:CB	2.73	0.55
1:d:450:PRO:HD2	1:d:451:TRP:CZ3	2.42	0.55
1:e:450:PRO:HD2	1:e:451:TRP:CZ3	2.42	0.55
1:f:194:ASP:HB3	1:f:207:PRO:HB3	1.88	0.55
1:i:429:ARG:HH12	1:j:94:ARG:HH22	1.55	0.55
1:k:380:ASP:OD1	1:k:391:ARG:NH2	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:186:TRP:CZ2	1:n:188:ALA:HB3	2.42	0.55
1:o:450:PRO:HD2	1:o:451:TRP:CZ3	2.42	0.55
1:q:62:ARG:HH12	1:q:119:VAL:HA	1.71	0.55
1:r:186:TRP:CZ2	1:r:188:ALA:HB3	2.42	0.55
1:u:429:ARG:HH12	1:v:94:ARG:HH22	1.55	0.55
1:u:450:PRO:HD2	1:u:451:TRP:CZ3	2.42	0.55
1:x:134:ARG:HG3	1:x:135:GLU:OE1	2.07	0.55
1:x:186:TRP:CZ2	1:x:188:ALA:HB3	2.42	0.55
1:x:290:HIS:HD2	1:x:291:PRO:HD2	1.71	0.55
1:z:186:TRP:CZ2	1:z:188:ALA:HB3	2.42	0.55
1:6:290:HIS:HD2	1:6:291:PRO:HD2	1.71	0.55
1:C:450:PRO:HD2	1:C:451:TRP:CZ3	2.42	0.55
1:E:59:HIS:HE1	1:E:515:LYS:HZ1	1.55	0.55
1:E:98:ASN:HB2	1:F:316:ARG:HH21	1.67	0.55
1:F:37:SER:CB	1:G:257:ARG:CG	2.73	0.55
1:G:134:ARG:HG3	1:G:135:GLU:OE1	2.07	0.55
1:G:194:ASP:HB3	1:G:207:PRO:HB3	1.88	0.55
1:L:450:PRO:HD2	1:L:451:TRP:CZ3	2.42	0.55
1:N:431:SER:OG	1:N:433:HIS:CE1	2.58	0.55
1:O:380:ASP:OD1	1:O:391:ARG:NH2	2.30	0.55
1:P:62:ARG:HH12	1:P:119:VAL:HA	1.71	0.55
1:P:431:SER:OG	1:P:433:HIS:CE1	2.58	0.55
1:S:62:ARG:HH12	1:S:119:VAL:HA	1.71	0.55
1:S:186:TRP:CZ2	1:S:188:ALA:HB3	2.42	0.55
1:V:134:ARG:HG3	1:V:135:GLU:OE1	2.07	0.55
1:V:450:PRO:HD2	1:V:451:TRP:CZ3	2.42	0.55
1:X:450:PRO:HD2	1:X:451:TRP:CZ3	2.42	0.55
1:Z:134:ARG:HG3	1:Z:135:GLU:OE1	2.07	0.55
1:Z:194:ASP:HB3	1:Z:207:PRO:HB3	1.89	0.55
1:1:62:ARG:HH12	1:1:119:VAL:HA	1.71	0.55
1:4:36:HIS:CD2	1:b:34:VAL:HG22	2.41	0.55
1:4:186:TRP:CZ2	1:4:188:ALA:HB3	2.42	0.55
1:a:220:ASP:OD1	1:b:360:TRP:HZ3	1.90	0.55
1:a:341:HIS:HE2	1:b:406:ASP:CG	2.14	0.55
1:h:134:ARG:HG3	1:h:135:GLU:OE1	2.07	0.55
1:l:528:TRP:CG	1:m:246:PRO:HG3	2.41	0.55
1:q:528:TRP:CG	1:r:246:PRO:HG3	2.41	0.55
1:s:431:SER:OG	1:s:433:HIS:CE1	2.58	0.55
1:t:62:ARG:HH12	1:t:119:VAL:HA	1.71	0.55
1:z:62:ARG:HH12	1:z:119:VAL:HA	1.71	0.55
1:z:380:ASP:OD1	1:z:391:ARG:NH2	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:134:ARG:HG3	1:7:135:GLU:OE1	2.07	0.55
1:7:450:PRO:HD2	1:7:451:TRP:CZ3	2.42	0.55
1:A:134:ARG:HG3	1:A:135:GLU:OE1	2.07	0.55
1:C:300:GLY:HA2	1:C:301:GLN:CB	2.33	0.55
1:D:316:ARG:HH21	1:N:98:ASN:HB2	1.67	0.55
1:G:101:TYR:C	1:G:101:TYR:CD2	2.85	0.55
1:H:134:ARG:HG3	1:H:135:GLU:OE1	2.07	0.55
1:I:62:ARG:HH12	1:I:119:VAL:HA	1.71	0.55
1:J:528:TRP:CG	1:L:246:PRO:HG3	2.41	0.55
1:M:101:TYR:CD2	1:M:101:TYR:C	2.84	0.55
1:Q:290:HIS:HD2	1:Q:291:PRO:HD2	1.71	0.55
1:R:257:ARG:HG2	1:V:37:SER:CA	2.32	0.55
1:T:134:ARG:HG3	1:T:135:GLU:OE1	2.07	0.55
1:V:101:TYR:CD2	1:V:101:TYR:C	2.84	0.55
1:W:62:ARG:HH12	1:W:119:VAL:HA	1.71	0.55
1:b:186:TRP:CZ2	1:b:188:ALA:HB3	2.42	0.55
1:d:101:TYR:CD2	1:d:101:TYR:C	2.84	0.55
1:f:450:PRO:HD2	1:f:451:TRP:CZ3	2.42	0.55
1:g:134:ARG:HG3	1:g:135:GLU:OE1	2.07	0.55
1:i:134:ARG:HG3	1:i:135:GLU:OE1	2.07	0.55
1:l:134:ARG:HG3	1:l:135:GLU:OE1	2.07	0.55
1:m:134:ARG:HG3	1:m:135:GLU:OE1	2.07	0.55
1:m:186:TRP:CZ2	1:m:188:ALA:HB3	2.42	0.55
1:m:431:SER:OG	1:m:433:HIS:CE1	2.58	0.55
1:p:186:TRP:CZ2	1:p:188:ALA:HB3	2.42	0.55
1:t:101:TYR:CD2	1:t:101:TYR:C	2.85	0.55
1:v:101:TYR:C	1:v:101:TYR:CD2	2.84	0.55
1:w:59:HIS:HE1	1:w:515:LYS:HZ1	1.55	0.55
1:B:290:HIS:HD2	1:B:291:PRO:HD2	1.71	0.55
1:D:450:PRO:HD2	1:D:451:TRP:CZ3	2.42	0.55
1:E:186:TRP:CZ2	1:E:188:ALA:HB3	2.42	0.55
1:E:194:ASP:HB3	1:E:207:PRO:HB3	1.88	0.55
1:K:70:ASP:OD1	1:K:71:MET:N	2.36	0.55
1:L:186:TRP:CZ2	1:L:188:ALA:HB3	2.42	0.55
1:Y:134:ARG:HG3	1:Y:135:GLU:OE1	2.07	0.55
1:Z:94:ARG:HH22	1:w:429:ARG:HH12	1.55	0.55
1:Z:186:TRP:CZ2	1:Z:188:ALA:HB3	2.42	0.55
1:2:450:PRO:HD2	1:2:451:TRP:CZ3	2.42	0.55
1:4:65:HIS:NE2	1:b:492:ASP:O	2.39	0.55
1:c:186:TRP:CZ2	1:c:188:ALA:HB3	2.42	0.55
1:c:431:SER:OG	1:c:433:HIS:CE1	2.58	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:290:HIS:HD2	1:d:291:PRO:HD2	1.71	0.55
1:h:186:TRP:CZ2	1:h:188:ALA:HB3	2.42	0.55
1:i:375:GLU:HG2	1:i:396:GLN:HE22	1.73	0.55
1:j:257:ARG:HG2	1:z:37:SER:CA	2.32	0.55
1:j:375:GLU:HG2	1:j:396:GLN:HE22	1.73	0.55
1:l:429:ARG:HH12	1:m:94:ARG:HH22	1.55	0.55
1:n:134:ARG:HG3	1:n:135:GLU:OE1	2.07	0.55
1:o:431:SER:OG	1:o:433:HIS:CE1	2.58	0.55
1:p:194:ASP:HB3	1:p:207:PRO:HB3	1.88	0.55
1:q:186:TRP:CZ2	1:q:188:ALA:HB3	2.42	0.55
1:s:186:TRP:CZ2	1:s:188:ALA:HB3	2.42	0.55
1:u:109:TRP:HZ3	1:u:485:LYS:HB3	1.67	0.55
1:u:134:ARG:HG3	1:u:135:GLU:OE1	2.07	0.55
1:v:194:ASP:HB3	1:v:207:PRO:HB3	1.88	0.55
1:v:450:PRO:HD2	1:v:451:TRP:CZ3	2.42	0.55
1:x:101:TYR:CD2	1:x:101:TYR:C	2.84	0.55
1:y:134:ARG:HG3	1:y:135:GLU:OE1	2.07	0.55
1:7:101:TYR:CD2	1:7:101:TYR:C	2.84	0.55
1:A:186:TRP:CZ2	1:A:188:ALA:HB3	2.42	0.54
1:B:334:SER:OG	1:B:435:THR:CG2	2.56	0.54
1:B:450:PRO:HD2	1:B:451:TRP:CZ3	2.42	0.54
1:D:134:ARG:HG3	1:D:135:GLU:OE1	2.07	0.54
1:D:186:TRP:CZ2	1:D:188:ALA:HB3	2.42	0.54
1:E:334:SER:OG	1:E:435:THR:CG2	2.56	0.54
1:E:414:GLN:N	1:Q:338:TRP:O	2.37	0.54
1:G:450:PRO:HD2	1:G:451:TRP:CZ3	2.42	0.54
1:H:246:PRO:HG3	1:Y:528:TRP:HB3	1.86	0.54
1:J:191:PHE:CE1	1:J:470:HIS:HE1	2.16	0.54
1:K:194:ASP:HB3	1:K:207:PRO:HB3	1.88	0.54
1:M:290:HIS:HD2	1:M:291:PRO:HD2	1.71	0.54
1:P:134:ARG:HG3	1:P:135:GLU:OE1	2.07	0.54
1:P:186:TRP:CZ2	1:P:188:ALA:HB3	2.42	0.54
1:Q:134:ARG:HG3	1:Q:135:GLU:OE1	2.07	0.54
1:R:94:ARG:HH22	1:U:429:ARG:HH12	1.55	0.54
1:R:246:PRO:CG	1:U:528:TRP:CB	2.66	0.54
1:W:429:ARG:HH12	1:Y:94:ARG:HH22	1.55	0.54
1:Y:101:TYR:CD2	1:Y:101:TYR:C	2.84	0.54
1:Y:186:TRP:CZ2	1:Y:188:ALA:HB3	2.42	0.54
1:Z:101:TYR:CD2	1:Z:101:TYR:C	2.84	0.54
1:0:290:HIS:HD2	1:0:291:PRO:HD2	1.71	0.54
1:1:450:PRO:HD2	1:1:451:TRP:CZ3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:98:ASN:HB2	1:j:316:ARG:HH21	1.67	0.54
1:3:375:GLU:HG2	1:3:396:GLN:HE22	1.73	0.54
1:4:194:ASP:HB3	1:4:207:PRO:HB3	1.88	0.54
1:a:290:HIS:HD2	1:a:291:PRO:HD2	1.71	0.54
1:a:334:SER:OG	1:a:435:THR:CG2	2.56	0.54
1:c:62:ARG:HH12	1:c:119:VAL:HA	1.71	0.54
1:e:244:PHE:HE2	1:e:246:PRO:HB3	1.63	0.54
1:e:257:ARG:HG2	1:q:37:SER:CA	2.32	0.54
1:e:300:GLY:HA2	1:e:301:GLN:CB	2.33	0.54
1:f:334:SER:OG	1:f:435:THR:CG2	2.56	0.54
1:g:194:ASP:HB3	1:g:207:PRO:HB3	1.88	0.54
1:g:380:ASP:OD1	1:g:391:ARG:NH2	2.30	0.54
1:g:528:TRP:CG	1:h:246:PRO:HG3	2.41	0.54
1:h:101:TYR:CD2	1:h:101:TYR:C	2.84	0.54
1:j:450:PRO:HD2	1:j:451:TRP:CZ3	2.42	0.54
1:m:101:TYR:CD2	1:m:101:TYR:C	2.84	0.54
1:n:528:TRP:CB	1:o:246:PRO:CG	2.65	0.54
1:p:62:ARG:HH12	1:p:119:VAL:HA	1.71	0.54
1:p:334:SER:OG	1:p:435:THR:CG2	2.56	0.54
1:q:134:ARG:HG3	1:q:135:GLU:OE1	2.07	0.54
1:q:316:ARG:HH21	1:r:98:ASN:HB2	1.67	0.54
1:q:450:PRO:HD2	1:q:451:TRP:CZ3	2.42	0.54
1:s:62:ARG:HH12	1:s:119:VAL:HA	1.71	0.54
1:t:375:GLU:HG2	1:t:396:GLN:HE22	1.72	0.54
1:t:429:ARG:HH12	1:u:94:ARG:HH22	1.55	0.54
1:u:186:TRP:CZ2	1:u:188:ALA:HB3	2.42	0.54
1:u:290:HIS:HD2	1:u:291:PRO:HD2	1.71	0.54
1:w:62:ARG:HH12	1:w:119:VAL:HA	1.71	0.54
1:y:94:ARG:HH22	1:6:429:ARG:HH12	1.55	0.54
1:y:98:ASN:HA	1:6:323:SER:HG	1.70	0.54
1:y:186:TRP:CZ2	1:y:188:ALA:HB3	2.42	0.54
1:6:134:ARG:HG3	1:6:135:GLU:OE1	2.07	0.54
1:6:450:PRO:HD2	1:6:451:TRP:CZ3	2.42	0.54
1:A:290:HIS:HD2	1:A:291:PRO:HD2	1.71	0.54
1:B:63:LEU:HD23	1:B:203:ALA:HB2	1.90	0.54
1:C:98:ASN:HB2	1:M:316:ARG:HH21	1.67	0.54
1:C:134:ARG:HG3	1:C:135:GLU:OE1	2.07	0.54
1:E:429:ARG:HH12	1:Q:94:ARG:HH22	1.55	0.54
1:F:186:TRP:CZ2	1:F:188:ALA:HB3	2.42	0.54
1:F:194:ASP:HB3	1:F:207:PRO:HB3	1.88	0.54
1:F:338:TRP:O	1:Q:414:GLN:N	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:101:TYR:CD2	1:H:101:TYR:C	2.84	0.54
1:H:156:THR:O	1:H:163:THR:OG1	2.25	0.54
1:I:375:GLU:HG2	1:I:396:GLN:HE22	1.73	0.54
1:I:450:PRO:HD2	1:I:451:TRP:CZ3	2.42	0.54
1:K:528:TRP:CG	1:0:246:PRO:HG3	2.41	0.54
1:L:37:SER:CB	1:1:257:ARG:CG	2.72	0.54
1:L:244:PHE:CE2	1:L:246:PRO:CB	2.76	0.54
1:L:334:SER:OG	1:L:435:THR:CG2	2.56	0.54
1:M:63:LEU:HD23	1:M:203:ALA:HB2	1.90	0.54
1:O:98:ASN:HB2	1:h:316:ARG:HH21	1.67	0.54
1:R:98:ASN:HA	1:U:323:SER:HG	1.70	0.54
1:R:134:ARG:HG3	1:R:135:GLU:OE1	2.07	0.54
1:R:186:TRP:CZ2	1:R:188:ALA:HB3	2.42	0.54
1:S:380:ASP:OD1	1:S:391:ARG:NH2	2.30	0.54
1:T:334:SER:OG	1:T:435:THR:CG2	2.56	0.54
1:T:375:GLU:HG2	1:T:396:GLN:HE22	1.73	0.54
1:T:528:TRP:HB3	1:3:246:PRO:HG3	1.85	0.54
1:U:450:PRO:HD2	1:U:451:TRP:CZ3	2.42	0.54
1:W:186:TRP:CZ2	1:W:188:ALA:HB3	2.42	0.54
1:X:246:PRO:HG3	1:4:528:TRP:CG	2.41	0.54
1:X:290:HIS:HD2	1:X:291:PRO:HD2	1.71	0.54
1:X:300:GLY:HA2	1:X:301:GLN:CB	2.33	0.54
1:Z:62:ARG:HH12	1:Z:119:VAL:HA	1.71	0.54
1:1:186:TRP:CZ2	1:1:188:ALA:HB3	2.42	0.54
1:1:431:SER:OG	1:1:433:HIS:CE1	2.58	0.54
1:2:334:SER:OG	1:2:435:THR:CG2	2.56	0.54
1:3:316:ARG:HH21	1:f:98:ASN:HB2	1.67	0.54
1:5:134:ARG:HG3	1:5:135:GLU:OE1	2.07	0.54
1:a:63:LEU:HD23	1:a:203:ALA:HB2	1.90	0.54
1:a:450:PRO:HD2	1:a:451:TRP:CZ3	2.42	0.54
1:c:450:PRO:HD2	1:c:451:TRP:CZ3	2.42	0.54
1:e:134:ARG:HG3	1:e:135:GLU:OE1	2.07	0.54
1:f:186:TRP:CZ2	1:f:188:ALA:HB3	2.42	0.54
1:f:286:ILE:HD11	1:f:327:SER:HB2	1.90	0.54
1:g:429:ARG:HH12	1:h:94:ARG:HH22	1.56	0.54
1:h:62:ARG:HH12	1:h:119:VAL:HA	1.71	0.54
1:h:431:SER:OG	1:h:433:HIS:CE1	2.58	0.54
1:k:286:ILE:HD11	1:k:327:SER:HB2	1.90	0.54
1:l:63:LEU:HD23	1:l:203:ALA:HB2	1.90	0.54
1:l:186:TRP:CZ2	1:l:188:ALA:HB3	2.42	0.54
1:m:62:ARG:HH12	1:m:119:VAL:HA	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:134:ARG:HG3	1:s:135:GLU:OE1	2.07	0.54
1:t:450:PRO:HD2	1:t:451:TRP:CZ3	2.42	0.54
1:u:101:TYR:CD2	1:u:101:TYR:C	2.84	0.54
1:w:98:ASN:HB2	1:x:316:ARG:HH21	1.67	0.54
1:A:101:TYR:CD2	1:A:101:TYR:C	2.84	0.54
1:E:62:ARG:HH12	1:E:119:VAL:HA	1.71	0.54
1:F:63:LEU:HD23	1:F:203:ALA:HB2	1.90	0.54
1:F:431:SER:OG	1:F:433:HIS:CE1	2.58	0.54
1:H:194:ASP:HB3	1:H:207:PRO:HB3	1.89	0.54
1:J:134:ARG:HG3	1:J:135:GLU:OE1	2.07	0.54
1:J:334:SER:OG	1:J:435:THR:CG2	2.56	0.54
1:L:101:TYR:CD2	1:L:101:TYR:C	2.84	0.54
1:O:134:ARG:HG3	1:O:135:GLU:OE1	2.07	0.54
1:O:286:ILE:HD11	1:O:327:SER:HB2	1.90	0.54
1:O:334:SER:OG	1:O:435:THR:CG2	2.56	0.54
1:P:156:THR:O	1:P:163:THR:OG1	2.25	0.54
1:P:286:ILE:HD11	1:P:327:SER:HB2	1.90	0.54
1:T:528:TRP:CG	1:3:246:PRO:HG3	2.41	0.54
1:U:134:ARG:HG3	1:U:135:GLU:OE1	2.07	0.54
1:U:286:ILE:HD11	1:U:327:SER:HB2	1.90	0.54
1:V:246:PRO:HG3	1:X:528:TRP:CG	2.41	0.54
1:X:375:GLU:HG2	1:X:396:GLN:HE22	1.73	0.54
1:0:300:GLY:HA2	1:0:301:GLN:CB	2.33	0.54
1:0:528:TRP:CG	1:7:246:PRO:HG3	2.41	0.54
1:1:375:GLU:HG2	1:1:396:GLN:HE22	1.73	0.54
1:2:186:TRP:CZ2	1:2:188:ALA:HB3	2.42	0.54
1:2:286:ILE:HD11	1:2:327:SER:HB2	1.90	0.54
1:3:450:PRO:HD2	1:3:451:TRP:CZ3	2.42	0.54
1:4:70:ASP:OD1	1:4:71:MET:N	2.36	0.54
1:5:191:PHE:CE1	1:5:470:HIS:HE1	2.16	0.54
1:b:101:TYR:C	1:b:101:TYR:CD2	2.84	0.54
1:b:334:SER:OG	1:b:435:THR:CG2	2.56	0.54
1:c:375:GLU:HG2	1:c:396:GLN:HE22	1.73	0.54
1:g:63:LEU:HD23	1:g:203:ALA:HB2	1.90	0.54
1:g:156:THR:O	1:g:163:THR:OG1	2.25	0.54
1:g:186:TRP:CZ2	1:g:188:ALA:HB3	2.42	0.54
1:i:334:SER:OG	1:i:435:THR:CG2	2.56	0.54
1:j:334:SER:OG	1:j:435:THR:CG2	2.56	0.54
1:k:98:ASN:HB2	1:m:316:ARG:HH21	1.67	0.54
1:k:290:HIS:HD2	1:k:291:PRO:HD2	1.71	0.54
1:k:334:SER:OG	1:k:435:THR:CG2	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:414:GLN:N	1:l:338:TRP:O	2.38	0.54
1:k:450:PRO:HD2	1:k:451:TRP:CZ3	2.42	0.54
1:l:286:ILE:HD11	1:l:327:SER:HB2	1.90	0.54
1:n:63:LEU:HD23	1:n:203:ALA:HB2	1.90	0.54
1:o:63:LEU:HD23	1:o:203:ALA:HB2	1.90	0.54
1:o:101:TYR:CD2	1:o:101:TYR:C	2.84	0.54
1:o:186:TRP:CZ2	1:o:188:ALA:HB3	2.42	0.54
1:o:194:ASP:HB3	1:o:207:PRO:HB3	1.88	0.54
1:q:429:ARG:HH12	1:r:94:ARG:HH22	1.56	0.54
1:s:286:ILE:HD11	1:s:327:SER:HB2	1.90	0.54
1:w:186:TRP:CZ2	1:w:188:ALA:HB3	2.42	0.54
1:x:194:ASP:HB3	1:x:207:PRO:HB3	1.88	0.54
1:A:63:LEU:HD23	1:A:203:ALA:HB2	1.90	0.54
1:A:309:ASN:HB2	1:G:391:ARG:HH22	1.72	0.54
1:B:429:ARG:HH12	1:J:94:ARG:HH22	1.56	0.54
1:C:286:ILE:HD11	1:C:327:SER:HB2	1.90	0.54
1:D:429:ARG:HH12	1:N:94:ARG:HH22	1.56	0.54
1:F:101:TYR:CD2	1:F:101:TYR:C	2.84	0.54
1:F:134:ARG:HG3	1:F:135:GLU:OE1	2.07	0.54
1:G:334:SER:OG	1:G:435:THR:CG2	2.56	0.54
1:H:286:ILE:HD11	1:H:327:SER:HB2	1.90	0.54
1:H:334:SER:OG	1:H:435:THR:CG2	2.56	0.54
1:L:100:SER:O	1:L:100:SER:OG	2.23	0.54
1:N:429:ARG:HH12	1:P:94:ARG:HH22	1.56	0.54
1:O:450:PRO:HD2	1:O:451:TRP:CZ3	2.42	0.54
1:Q:156:THR:O	1:Q:163:THR:OG1	2.25	0.54
1:R:101:TYR:CD2	1:R:101:TYR:C	2.84	0.54
1:T:286:ILE:HD11	1:T:327:SER:HB2	1.90	0.54
1:V:246:PRO:HG3	1:X:528:TRP:HB3	1.85	0.54
1:Y:63:LEU:HD23	1:Y:203:ALA:HB2	1.90	0.54
1:0:375:GLU:HG2	1:0:396:GLN:HE22	1.73	0.54
1:3:286:ILE:HD11	1:3:327:SER:HB2	1.90	0.54
1:3:334:SER:OG	1:3:435:THR:CG2	2.56	0.54
1:4:37:SER:CA	1:b:257:ARG:HG2	2.36	0.54
1:a:134:ARG:HG3	1:a:135:GLU:OE1	2.07	0.54
1:b:65:HIS:NE2	1:c:492:ASP:O	2.40	0.54
1:b:244:PHE:CE2	1:b:246:PRO:CB	2.76	0.54
1:d:63:LEU:HD23	1:d:203:ALA:HB2	1.90	0.54
1:d:286:ILE:HD11	1:d:327:SER:HB2	1.90	0.54
1:e:186:TRP:CZ2	1:e:188:ALA:HB3	2.42	0.54
1:g:286:ILE:HD11	1:g:327:SER:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:343:SER:HB3	1:g:345:GLY:O	2.08	0.54
1:h:375:GLU:HG2	1:h:396:GLN:HE22	1.73	0.54
1:i:286:ILE:HD11	1:i:327:SER:HB2	1.90	0.54
1:i:450:PRO:HD2	1:i:451:TRP:CZ3	2.42	0.54
1:j:101:TYR:C	1:j:101:TYR:CD2	2.84	0.54
1:k:101:TYR:CD2	1:k:101:TYR:C	2.84	0.54
1:k:134:ARG:HG3	1:k:135:GLU:OE1	2.07	0.54
1:l:194:ASP:HB3	1:l:207:PRO:HB3	1.89	0.54
1:l:380:ASP:OD1	1:l:391:ARG:NH2	2.30	0.54
1:m:334:SER:OG	1:m:435:THR:CG2	2.56	0.54
1:m:375:GLU:HG2	1:m:396:GLN:HE22	1.73	0.54
1:n:94:ARG:HH22	1:p:429:ARG:HH12	1.56	0.54
1:n:334:SER:OG	1:n:435:THR:CG2	2.56	0.54
1:n:338:TRP:O	1:p:414:GLN:N	2.38	0.54
1:u:63:LEU:HD23	1:u:203:ALA:HB2	1.90	0.54
1:x:286:ILE:HD11	1:x:327:SER:HB2	1.90	0.54
1:x:334:SER:OG	1:x:435:THR:CG2	2.56	0.54
1:y:101:TYR:C	1:y:101:TYR:CD2	2.84	0.54
1:6:101:TYR:CD2	1:6:101:TYR:C	2.84	0.54
1:6:286:ILE:HD11	1:6:327:SER:HB2	1.90	0.54
1:D:343:SER:HB3	1:D:345:GLY:O	2.08	0.54
1:M:286:ILE:HD11	1:M:327:SER:HB2	1.90	0.54
1:M:334:SER:OG	1:M:435:THR:CG2	2.56	0.54
1:O:101:TYR:C	1:O:101:TYR:CD2	2.84	0.54
1:O:290:HIS:HD2	1:O:291:PRO:HD2	1.71	0.54
1:O:414:GLN:N	1:g:338:TRP:O	2.37	0.54
1:Q:63:LEU:HD23	1:Q:203:ALA:HB2	1.90	0.54
1:Q:286:ILE:HD11	1:Q:327:SER:HB2	1.90	0.54
1:Q:334:SER:OG	1:Q:435:THR:CG2	2.56	0.54
1:Q:375:GLU:HG2	1:Q:396:GLN:HE22	1.73	0.54
1:R:375:GLU:HG2	1:R:396:GLN:HE22	1.73	0.54
1:R:450:PRO:HD2	1:R:451:TRP:CZ3	2.42	0.54
1:S:414:GLN:N	1:U:338:TRP:O	2.37	0.54
1:T:450:PRO:HD2	1:T:451:TRP:CZ3	2.42	0.54
1:V:334:SER:OG	1:V:435:THR:CG2	2.55	0.54
1:W:334:SER:OG	1:W:435:THR:CG2	2.56	0.54
1:W:528:TRP:CG	1:Y:246:PRO:HG3	2.41	0.54
1:X:334:SER:OG	1:X:435:THR:CG2	2.56	0.54
1:Y:62:ARG:HH12	1:Y:119:VAL:HA	1.71	0.54
1:Y:450:PRO:HD2	1:Y:451:TRP:CZ3	2.42	0.54
1:Z:63:LEU:HD23	1:Z:203:ALA:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:450:PRO:HD2	1:Z:451:TRP:CZ3	2.42	0.54
1:0:334:SER:OG	1:0:435:THR:CG2	2.56	0.54
1:0:343:SER:HB3	1:0:345:GLY:O	2.08	0.54
1:3:101:TYR:CD2	1:3:101:TYR:C	2.84	0.54
1:3:343:SER:HB3	1:3:345:GLY:O	2.08	0.54
1:5:334:SER:OG	1:5:435:THR:CG2	2.56	0.54
1:5:343:SER:HB3	1:5:345:GLY:O	2.08	0.54
1:a:391:ARG:HH12	1:b:308:ILE:N	2.06	0.54
1:b:100:SER:O	1:b:100:SER:OG	2.23	0.54
1:d:334:SER:OG	1:d:435:THR:CG2	2.56	0.54
1:e:286:ILE:HD11	1:e:327:SER:HB2	1.90	0.54
1:g:334:SER:OG	1:g:435:THR:CG2	2.56	0.54
1:h:257:ARG:CG	1:l:37:SER:CB	2.72	0.54
1:h:334:SER:OG	1:h:435:THR:CG2	2.56	0.54
1:i:300:GLY:HA2	1:i:301:GLN:CB	2.33	0.54
1:j:286:ILE:HD11	1:j:327:SER:HB2	1.90	0.54
1:j:343:SER:HB3	1:j:345:GLY:O	2.08	0.54
1:l:343:SER:HB3	1:l:345:GLY:O	2.08	0.54
1:n:194:ASP:HB3	1:n:207:PRO:HB3	1.88	0.54
1:n:286:ILE:HD11	1:n:327:SER:HB2	1.90	0.54
1:n:375:GLU:HG2	1:n:396:GLN:HE22	1.73	0.54
1:o:134:ARG:HG3	1:o:135:GLU:OE1	2.07	0.54
1:q:290:HIS:HD2	1:q:291:PRO:HD2	1.71	0.54
1:q:343:SER:HB3	1:q:345:GLY:O	2.08	0.54
1:r:286:ILE:HD11	1:r:327:SER:HB2	1.90	0.54
1:r:429:ARG:HH12	1:s:94:ARG:HH22	1.56	0.54
1:v:334:SER:OG	1:v:435:THR:CG2	2.56	0.54
1:w:334:SER:OG	1:w:435:THR:CG2	2.56	0.54
1:x:375:GLU:HG2	1:x:396:GLN:HE22	1.73	0.54
1:x:450:PRO:HD2	1:x:451:TRP:CZ3	2.42	0.54
1:y:375:GLU:HG2	1:y:396:GLN:HE22	1.73	0.54
1:y:414:GLN:N	1:z:338:TRP:O	2.37	0.54
1:z:334:SER:OG	1:z:435:THR:CG2	2.56	0.54
1:7:194:ASP:HB3	1:7:207:PRO:HB3	1.88	0.54
1:A:194:ASP:HB3	1:A:207:PRO:HB3	1.88	0.54
1:A:334:SER:OG	1:A:435:THR:CG2	2.56	0.54
1:B:134:ARG:HG3	1:B:135:GLU:OE1	2.07	0.54
1:C:70:ASP:OD1	1:C:71:MET:N	2.36	0.54
1:C:186:TRP:CZ2	1:C:188:ALA:HB3	2.42	0.54
1:D:244:PHE:CE2	1:D:246:PRO:CB	2.76	0.54
1:H:375:GLU:HG2	1:H:396:GLN:HE22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:450:PRO:HD2	1:H:451:TRP:CZ3	2.42	0.54
1:I:156:THR:O	1:I:163:THR:OG1	2.25	0.54
1:J:343:SER:HB3	1:J:345:GLY:O	2.08	0.54
1:J:429:ARG:HH12	1:L:94:ARG:HH22	1.55	0.54
1:K:343:SER:HB3	1:K:345:GLY:O	2.08	0.54
1:N:286:ILE:HD11	1:N:327:SER:HB2	1.90	0.54
1:N:334:SER:OG	1:N:435:THR:CG2	2.56	0.54
1:P:343:SER:HB3	1:P:345:GLY:O	2.08	0.54
1:S:334:SER:OG	1:S:435:THR:CG2	2.56	0.54
1:U:101:TYR:CD2	1:U:101:TYR:C	2.84	0.54
1:W:431:SER:OG	1:W:433:HIS:CE1	2.58	0.54
1:X:134:ARG:HG3	1:X:135:GLU:OE1	2.07	0.54
1:Z:246:PRO:HG3	1:w:528:TRP:CG	2.41	0.54
1:0:528:TRP:HB3	1:7:246:PRO:HG3	1.85	0.54
1:3:414:GLN:N	1:f:338:TRP:O	2.37	0.54
1:4:343:SER:HB3	1:4:345:GLY:O	2.08	0.54
1:d:316:ARG:HH21	1:e:98:ASN:HB2	1.67	0.54
1:e:194:ASP:HB3	1:e:207:PRO:HB3	1.89	0.54
1:i:528:TRP:CG	1:j:246:PRO:HG3	2.41	0.54
1:l:334:SER:OG	1:l:435:THR:CG2	2.56	0.54
1:s:343:SER:HB3	1:s:345:GLY:O	2.08	0.54
1:v:109:TRP:HZ3	1:v:485:LYS:HB3	1.67	0.54
1:x:343:SER:HB3	1:x:345:GLY:O	2.08	0.54
1:y:246:PRO:CG	1:6:528:TRP:CB	2.65	0.54
1:y:450:PRO:HD2	1:y:451:TRP:CZ3	2.42	0.54
1:z:414:GLN:N	1:6:338:TRP:O	2.37	0.54
1:z:528:TRP:CG	1:6:246:PRO:HG3	2.41	0.54
1:7:334:SER:OG	1:7:435:THR:CG2	2.56	0.54
1:A:94:ARG:HH22	1:I:429:ARG:HH12	1.56	0.54
1:A:375:GLU:HG2	1:A:396:GLN:HE22	1.73	0.54
1:B:414:GLN:N	1:J:338:TRP:O	2.37	0.54
1:C:244:PHE:HE2	1:C:246:PRO:HB3	1.63	0.54
1:D:286:ILE:HD11	1:D:327:SER:HB2	1.90	0.54
1:D:492:ASP:O	1:E:65:HIS:NE2	2.41	0.54
1:F:343:SER:HB3	1:F:345:GLY:O	2.08	0.54
1:G:528:TRP:CG	1:I:246:PRO:HG3	2.41	0.54
1:H:316:ARG:HH21	1:W:98:ASN:HB2	1.67	0.54
1:H:338:TRP:O	1:Y:414:GLN:N	2.38	0.54
1:H:343:SER:HB3	1:H:345:GLY:O	2.08	0.54
1:I:286:ILE:HD11	1:I:327:SER:HB2	1.90	0.54
1:J:71:MET:HB2	1:J:75:ARG:NH2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:63:LEU:HD23	1:P:203:ALA:HB2	1.90	0.54
1:R:334:SER:OG	1:R:435:THR:CG2	2.56	0.54
1:R:414:GLN:N	1:S:338:TRP:O	2.38	0.54
1:S:528:TRP:CG	1:U:246:PRO:HG3	2.41	0.54
1:V:94:ARG:HH22	1:X:429:ARG:HH12	1.56	0.54
1:V:194:ASP:HB3	1:V:207:PRO:HB3	1.89	0.54
1:W:194:ASP:HB3	1:W:207:PRO:HB3	1.88	0.54
1:X:71:MET:HB2	1:X:75:ARG:NH2	2.23	0.54
1:X:244:PHE:HE2	1:X:246:PRO:HB3	1.63	0.54
1:X:343:SER:HB3	1:X:345:GLY:O	2.08	0.54
1:Z:316:ARG:HH21	1:x:98:ASN:HB2	1.67	0.54
1:0:71:MET:HB2	1:0:75:ARG:NH2	2.23	0.54
1:0:429:ARG:HH12	1:7:94:ARG:HH22	1.56	0.54
1:1:63:LEU:HD23	1:1:203:ALA:HB2	1.90	0.54
1:2:338:TRP:O	1:j:414:GLN:N	2.38	0.54
1:2:406:ASP:CG	1:i:341:HIS:HE2	2.16	0.54
1:5:71:MET:HB2	1:5:75:ARG:NH2	2.23	0.54
1:b:42:ASN:ND2	1:c:252:ASN:OD1	2.41	0.54
1:g:450:PRO:HD2	1:g:451:TRP:CZ3	2.42	0.54
1:i:528:TRP:HB3	1:j:246:PRO:HG3	1.85	0.54
1:l:450:PRO:HD2	1:l:451:TRP:CZ3	2.42	0.54
1:n:98:ASN:HB2	1:p:316:ARG:HH21	1.67	0.54
1:p:63:LEU:HD23	1:p:203:ALA:HB2	1.90	0.54
1:p:65:HIS:NE2	1:q:492:ASP:O	2.41	0.54
1:p:247:LEU:O	1:p:248:GLU:CB	2.42	0.54
1:r:334:SER:OG	1:r:435:THR:CG2	2.56	0.54
1:s:63:LEU:HD23	1:s:203:ALA:HB2	1.90	0.54
1:u:194:ASP:HB3	1:u:207:PRO:HB3	1.88	0.54
1:u:375:GLU:HG2	1:u:396:GLN:HE22	1.72	0.54
1:w:431:SER:OG	1:w:433:HIS:CE1	2.58	0.54
1:y:334:SER:OG	1:y:435:THR:CG2	2.56	0.54
1:A:360:TRP:HZ3	1:G:220:ASP:OD1	1.91	0.54
1:C:194:ASP:HB3	1:C:207:PRO:HB3	1.89	0.54
1:D:290:HIS:HD2	1:D:291:PRO:HD2	1.71	0.54
1:D:414:GLN:N	1:N:338:TRP:O	2.38	0.54
1:G:429:ARG:HH12	1:I:94:ARG:HH22	1.55	0.54
1:N:65:HIS:NE2	1:g:492:ASP:O	2.41	0.54
1:N:450:PRO:HD2	1:N:451:TRP:CZ3	2.42	0.54
1:Q:194:ASP:HB3	1:Q:207:PRO:HB3	1.89	0.54
1:R:194:ASP:HB3	1:R:207:PRO:HB3	1.89	0.54
1:S:450:PRO:HD2	1:S:451:TRP:CZ3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:70:ASP:OD1	1:T:71:MET:N	2.36	0.54
1:T:300:GLY:HA2	1:T:301:GLN:CB	2.33	0.54
1:T:341:HIS:HE2	1:f:406:ASP:CG	2.16	0.54
1:V:429:ARG:HH12	1:4:94:ARG:HH22	1.56	0.54
1:X:492:ASP:O	1:5:65:HIS:NE2	2.41	0.54
1:0:134:ARG:HG3	1:0:135:GLU:OE1	2.07	0.54
1:3:71:MET:HB2	1:3:75:ARG:NH2	2.23	0.54
1:c:63:LEU:HD23	1:c:203:ALA:HB2	1.90	0.54
1:c:334:SER:OG	1:c:435:THR:CG2	2.56	0.54
1:e:70:ASP:OD1	1:e:71:MET:N	2.36	0.54
1:f:71:MET:HB2	1:f:75:ARG:NH2	2.23	0.54
1:h:63:LEU:HD23	1:h:203:ALA:HB2	1.90	0.54
1:i:70:ASP:OD1	1:i:71:MET:N	2.36	0.54
1:j:71:MET:HB2	1:j:75:ARG:NH2	2.23	0.54
1:j:186:TRP:CZ2	1:j:188:ALA:HB3	2.42	0.54
1:k:246:PRO:HG3	1:m:528:TRP:CG	2.41	0.54
1:l:71:MET:HB2	1:l:75:ARG:NH2	2.23	0.54
1:m:63:LEU:HD23	1:m:203:ALA:HB2	1.90	0.54
1:m:343:SER:HB3	1:m:345:GLY:O	2.08	0.54
1:n:528:TRP:CG	1:o:246:PRO:HG3	2.41	0.54
1:o:59:HIS:HE1	1:o:515:LYS:HZ1	1.56	0.54
1:o:343:SER:HB3	1:o:345:GLY:O	2.08	0.54
1:q:194:ASP:HB3	1:q:207:PRO:HB3	1.88	0.54
1:q:286:ILE:HD11	1:q:327:SER:HB2	1.90	0.54
1:t:246:PRO:HG3	1:v:528:TRP:CG	2.41	0.54
1:t:286:ILE:HD11	1:t:327:SER:HB2	1.90	0.54
1:u:334:SER:OG	1:u:435:THR:CG2	2.56	0.54
1:w:194:ASP:HB3	1:w:207:PRO:HB3	1.88	0.54
1:6:343:SER:HB3	1:6:345:GLY:O	2.08	0.54
1:7:63:LEU:HD23	1:7:203:ALA:HB2	1.90	0.54
1:B:71:MET:HB2	1:B:75:ARG:NH2	2.23	0.54
1:D:101:TYR:C	1:D:101:TYR:CD2	2.84	0.54
1:D:194:ASP:HB3	1:D:207:PRO:HB3	1.88	0.54
1:D:244:PHE:O	1:D:246:PRO:CD	2.56	0.54
1:E:63:LEU:HD23	1:E:203:ALA:HB2	1.90	0.54
1:E:316:ARG:HH21	1:Q:98:ASN:HB2	1.67	0.54
1:F:341:HIS:HE2	1:Q:406:ASP:CG	2.16	0.54
1:H:98:ASN:HB2	1:Y:316:ARG:HH21	1.67	0.54
1:H:244:PHE:O	1:H:246:PRO:CD	2.56	0.54
1:K:134:ARG:HG3	1:K:135:GLU:OE1	2.07	0.54
1:N:37:SER:CB	1:g:257:ARG:CG	2.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:244:PHE:O	1:N:246:PRO:CD	2.56	0.54
1:O:156:THR:O	1:O:163:THR:OG1	2.25	0.54
1:P:71:MET:HB2	1:P:75:ARG:NH2	2.23	0.54
1:S:71:MET:HB2	1:S:75:ARG:NH2	2.23	0.54
1:S:343:SER:HB3	1:S:345:GLY:O	2.08	0.54
1:T:109:TRP:HZ3	1:T:485:LYS:HB3	1.67	0.54
1:T:406:ASP:CG	1:3:341:HIS:HE2	2.16	0.54
1:U:63:LEU:HD23	1:U:203:ALA:HB2	1.90	0.54
1:U:71:MET:HB2	1:U:75:ARG:NH2	2.23	0.54
1:U:343:SER:HB3	1:U:345:GLY:O	2.08	0.54
1:Y:343:SER:HB3	1:Y:345:GLY:O	2.08	0.54
1:Z:343:SER:HB3	1:Z:345:GLY:O	2.08	0.54
1:Z:414:GLN:N	1:x:338:TRP:O	2.38	0.54
1:2:71:MET:HB2	1:2:75:ARG:NH2	2.23	0.54
1:2:94:ARG:HH22	1:j:429:ARG:HH12	1.55	0.54
1:3:429:ARG:HH12	1:f:94:ARG:HH22	1.55	0.54
1:4:63:LEU:HD23	1:4:203:ALA:HB2	1.89	0.54
1:4:134:ARG:HG3	1:4:135:GLU:OE1	2.07	0.54
1:5:338:TRP:O	1:a:414:GLN:N	2.38	0.54
1:a:71:MET:HB2	1:a:75:ARG:NH2	2.23	0.54
1:c:286:ILE:HD11	1:c:327:SER:HB2	1.90	0.54
1:e:334:SER:OG	1:e:435:THR:CG2	2.56	0.54
1:g:71:MET:HB2	1:g:75:ARG:NH2	2.23	0.54
1:g:244:PHE:O	1:g:246:PRO:CD	2.56	0.54
1:i:63:LEU:HD23	1:i:203:ALA:HB2	1.90	0.54
1:i:414:GLN:N	1:j:338:TRP:O	2.37	0.54
1:l:244:PHE:O	1:l:246:PRO:CD	2.56	0.54
1:l:257:ARG:CG	1:r:37:SER:HG	1.99	0.54
1:p:450:PRO:HD2	1:p:451:TRP:CZ3	2.42	0.54
1:q:101:TYR:CD2	1:q:101:TYR:C	2.84	0.54
1:q:244:PHE:CE2	1:q:246:PRO:CB	2.76	0.54
1:q:244:PHE:O	1:q:246:PRO:CD	2.56	0.54
1:r:450:PRO:HD2	1:r:451:TRP:CZ3	2.42	0.54
1:s:71:MET:HB2	1:s:75:ARG:NH2	2.23	0.54
1:w:65:HIS:NE2	1:7:492:ASP:O	2.41	0.54
1:w:375:GLU:HG2	1:w:396:GLN:HE22	1.73	0.54
1:x:71:MET:HB2	1:x:75:ARG:NH2	2.23	0.54
1:x:244:PHE:O	1:x:246:PRO:CD	2.56	0.54
1:z:343:SER:HB3	1:z:345:GLY:O	2.08	0.54
1:6:63:LEU:HD23	1:6:203:ALA:HB2	1.90	0.54
1:6:71:MET:HB2	1:6:75:ARG:NH2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:70:ASP:OD1	1:7:71:MET:N	2.36	0.54
1:7:286:ILE:HD11	1:7:327:SER:HB2	1.90	0.54
1:7:343:SER:HB3	1:7:345:GLY:O	2.08	0.54
1:A:85:PHE:CD1	1:A:99:ASP:CB	2.91	0.54
1:D:334:SER:OG	1:D:435:THR:CG2	2.56	0.54
1:D:406:ASP:CG	1:N:341:HIS:HE2	2.16	0.54
1:E:286:ILE:HD11	1:E:327:SER:HB2	1.90	0.54
1:F:37:SER:CA	1:G:257:ARG:HG2	2.32	0.54
1:G:65:HIS:NE2	1:W:492:ASP:O	2.41	0.54
1:K:94:ARG:HH22	1:7:429:ARG:HH12	1.56	0.54
1:K:334:SER:OG	1:K:435:THR:CG2	2.56	0.54
1:L:194:ASP:HB3	1:L:207:PRO:HB3	1.89	0.54
1:M:343:SER:HB3	1:M:345:GLY:O	2.08	0.54
1:O:429:ARG:HH12	1:g:94:ARG:HH22	1.56	0.54
1:P:334:SER:OG	1:P:435:THR:CG2	2.56	0.54
1:Q:343:SER:HB3	1:Q:345:GLY:O	2.08	0.54
1:T:63:LEU:HD23	1:T:203:ALA:HB2	1.90	0.54
1:V:63:LEU:HD23	1:V:203:ALA:HB2	1.90	0.54
1:V:286:ILE:HD11	1:V:327:SER:HB2	1.90	0.54
1:V:338:TRP:O	1:X:414:GLN:N	2.38	0.54
1:V:343:SER:HB3	1:V:345:GLY:O	2.08	0.54
1:W:286:ILE:HD11	1:W:327:SER:HB2	1.90	0.54
1:W:375:GLU:HG2	1:W:396:GLN:HE22	1.73	0.54
1:Y:375:GLU:HG2	1:Y:396:GLN:HE22	1.73	0.54
1:1:286:ILE:HD11	1:1:327:SER:HB2	1.90	0.54
1:1:334:SER:OG	1:1:435:THR:CG2	2.56	0.54
1:2:63:LEU:HD23	1:2:203:ALA:HB2	1.90	0.54
1:2:134:ARG:HG3	1:2:135:GLU:OE1	2.07	0.54
1:3:186:TRP:CZ2	1:3:188:ALA:HB3	2.42	0.54
1:4:334:SER:OG	1:4:435:THR:CG2	2.56	0.54
1:b:194:ASP:HB3	1:b:207:PRO:HB3	1.88	0.54
1:e:85:PHE:CD1	1:e:99:ASP:CB	2.91	0.54
1:e:343:SER:HB3	1:e:345:GLY:O	2.08	0.54
1:f:134:ARG:HG3	1:f:135:GLU:OE1	2.07	0.54
1:h:343:SER:HB3	1:h:345:GLY:O	2.08	0.54
1:i:406:ASP:CG	1:j:341:HIS:HE2	2.16	0.54
1:k:156:THR:O	1:k:163:THR:OG1	2.25	0.54
1:k:429:ARG:HH12	1:l:94:ARG:HH22	1.55	0.54
1:l:257:ARG:CG	1:r:37:SER:CB	2.73	0.54
1:n:406:ASP:CG	1:o:341:HIS:HE2	2.16	0.54
1:o:334:SER:OG	1:o:435:THR:CG2	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:71:MET:HB2	1:p:75:ARG:NH2	2.23	0.54
1:q:338:TRP:O	1:s:414:GLN:N	2.38	0.54
1:r:244:PHE:O	1:r:246:PRO:CD	2.56	0.54
1:t:63:LEU:HD23	1:t:203:ALA:HB2	1.90	0.54
1:t:94:ARG:HH22	1:v:429:ARG:HH12	1.55	0.54
1:w:100:SER:O	1:w:100:SER:OG	2.23	0.54
1:w:341:HIS:HE2	1:x:406:ASP:CG	2.16	0.54
1:y:194:ASP:HB3	1:y:207:PRO:HB3	1.89	0.54
1:z:71:MET:HB2	1:z:75:ARG:NH2	2.23	0.54
1:z:450:PRO:HD2	1:z:451:TRP:CZ3	2.42	0.54
1:6:334:SER:OG	1:6:435:THR:CG2	2.56	0.54
1:7:375:GLU:HG2	1:7:396:GLN:HE22	1.73	0.54
1:C:85:PHE:CD1	1:C:99:ASP:CB	2.92	0.53
1:C:334:SER:OG	1:C:435:THR:CG2	2.56	0.53
1:D:156:THR:O	1:D:163:THR:OG1	2.25	0.53
1:E:71:MET:HB2	1:E:75:ARG:NH2	2.23	0.53
1:E:450:PRO:HD2	1:E:451:TRP:CZ3	2.42	0.53
1:F:246:PRO:HG3	1:Q:528:TRP:CG	2.41	0.53
1:G:109:TRP:HZ3	1:G:485:LYS:HB3	1.67	0.53
1:G:323:SER:HG	1:I:98:ASN:HA	1.72	0.53
1:H:406:ASP:CG	1:W:341:HIS:HE2	2.16	0.53
1:I:63:LEU:HD23	1:I:203:ALA:HB2	1.90	0.53
1:J:65:HIS:NE2	1:0:492:ASP:O	2.41	0.53
1:J:286:ILE:HD11	1:J:327:SER:HB2	1.90	0.53
1:J:406:ASP:CG	1:L:341:HIS:HE2	2.16	0.53
1:M:85:PHE:CD1	1:M:99:ASP:CB	2.92	0.53
1:O:246:PRO:HG3	1:h:528:TRP:CG	2.41	0.53
1:P:450:PRO:HD2	1:P:451:TRP:CZ3	2.42	0.53
1:S:375:GLU:HG2	1:S:396:GLN:HE22	1.72	0.53
1:V:375:GLU:HG2	1:V:396:GLN:HE22	1.73	0.53
1:W:100:SER:O	1:W:100:SER:OG	2.23	0.53
1:W:343:SER:HB3	1:W:345:GLY:O	2.08	0.53
1:W:406:ASP:CG	1:Y:341:HIS:HE2	2.16	0.53
1:X:286:ILE:HD11	1:X:327:SER:HB2	1.90	0.53
1:0:244:PHE:HE2	1:0:246:PRO:HB3	1.63	0.53
1:2:244:PHE:O	1:2:246:PRO:CD	2.56	0.53
1:2:528:TRP:CG	1:i:246:PRO:HG3	2.41	0.53
1:5:94:ARG:HH22	1:a:429:ARG:HH12	1.56	0.53
1:5:286:ILE:HD11	1:5:327:SER:HB2	1.90	0.53
1:d:85:PHE:CD1	1:d:99:ASP:CB	2.92	0.53
1:d:343:SER:HB3	1:d:345:GLY:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:244:PHE:O	1:f:246:PRO:CD	2.56	0.53
1:g:37:SER:CB	1:m:257:ARG:CG	2.73	0.53
1:j:194:ASP:HB3	1:j:207:PRO:HB3	1.88	0.53
1:n:429:ARG:HH12	1:o:94:ARG:HH22	1.55	0.53
1:q:156:THR:O	1:q:163:THR:OG1	2.25	0.53
1:q:246:PRO:CG	1:s:528:TRP:CB	2.65	0.53
1:q:334:SER:OG	1:q:435:THR:CG2	2.56	0.53
1:q:406:ASP:CG	1:r:341:HIS:HE2	2.16	0.53
1:q:414:GLN:N	1:r:338:TRP:O	2.38	0.53
1:s:334:SER:OG	1:s:435:THR:CG2	2.56	0.53
1:t:246:PRO:HG3	1:v:528:TRP:HB3	1.86	0.53
1:u:85:PHE:CD1	1:u:99:ASP:CB	2.91	0.53
1:w:286:ILE:HD11	1:w:327:SER:HB2	1.90	0.53
1:z:375:GLU:HG2	1:z:396:GLN:HE22	1.73	0.53
1:7:71:MET:HB2	1:7:75:ARG:NH2	2.23	0.53
1:A:286:ILE:HD11	1:A:327:SER:HB2	1.90	0.53
1:A:338:TRP:O	1:I:414:GLN:N	2.37	0.53
1:A:343:SER:HB3	1:A:345:GLY:O	2.08	0.53
1:B:220:ASP:OD1	1:L:360:TRP:HZ3	1.92	0.53
1:B:338:TRP:O	1:L:414:GLN:N	2.38	0.53
1:C:341:HIS:HE2	1:M:406:ASP:CG	2.16	0.53
1:D:85:PHE:CD1	1:D:99:ASP:CB	2.91	0.53
1:E:343:SER:HB3	1:E:345:GLY:O	2.08	0.53
1:F:94:ARG:HH22	1:Q:429:ARG:HH12	1.55	0.53
1:F:156:THR:O	1:F:163:THR:OG1	2.25	0.53
1:F:334:SER:OG	1:F:435:THR:CG2	2.56	0.53
1:G:71:MET:HB2	1:G:75:ARG:NH2	2.23	0.53
1:G:85:PHE:CD1	1:G:99:ASP:CB	2.91	0.53
1:G:85:PHE:CD1	1:G:99:ASP:HB2	2.44	0.53
1:G:528:TRP:HB3	1:I:246:PRO:HG3	1.85	0.53
1:H:65:HIS:NE2	1:I:492:ASP:O	2.41	0.53
1:H:71:MET:HB2	1:H:75:ARG:NH2	2.23	0.53
1:K:63:LEU:HD23	1:K:203:ALA:HB2	1.90	0.53
1:K:85:PHE:CD1	1:K:99:ASP:CB	2.91	0.53
1:K:244:PHE:O	1:K:246:PRO:CD	2.56	0.53
1:L:59:HIS:HE1	1:L:515:LYS:HZ1	1.57	0.53
1:L:375:GLU:HG2	1:L:396:GLN:HE22	1.73	0.53
1:M:65:HIS:NE2	1:N:492:ASP:O	2.41	0.53
1:O:63:LEU:HD23	1:O:203:ALA:HB2	1.90	0.53
1:Q:431:SER:OG	1:Q:433:HIS:CE1	2.58	0.53
1:R:85:PHE:CD1	1:R:99:ASP:CB	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:246:PRO:HG3	1:f:528:TRP:CG	2.41	0.53
1:T:414:GLN:N	1:3:338:TRP:O	2.38	0.53
1:U:194:ASP:HB3	1:U:207:PRO:HB3	1.89	0.53
1:U:334:SER:OG	1:U:435:THR:CG2	2.56	0.53
1:V:71:MET:HB2	1:V:75:ARG:NH2	2.23	0.53
1:V:492:ASP:O	1:W:65:HIS:NE2	2.41	0.53
1:V:528:TRP:HB3	1:4:246:PRO:HG3	1.85	0.53
1:X:85:PHE:CD1	1:X:99:ASP:CB	2.92	0.53
1:X:85:PHE:CD1	1:X:99:ASP:HB2	2.44	0.53
1:X:94:ARG:HH22	1:4:429:ARG:HH12	1.56	0.53
1:Y:286:ILE:HD11	1:Y:327:SER:HB2	1.90	0.53
1:Z:375:GLU:HG2	1:Z:396:GLN:HE22	1.73	0.53
1:0:85:PHE:CD1	1:0:99:ASP:CB	2.91	0.53
1:0:286:ILE:HD11	1:0:327:SER:HB2	1.90	0.53
1:0:414:GLN:N	1:7:338:TRP:O	2.38	0.53
1:4:85:PHE:CD1	1:4:99:ASP:CB	2.91	0.53
1:4:244:PHE:O	1:4:246:PRO:CD	2.56	0.53
1:b:375:GLU:HG2	1:b:396:GLN:HE22	1.72	0.53
1:f:63:LEU:HD23	1:f:203:ALA:HB2	1.90	0.53
1:h:109:TRP:HZ3	1:h:485:LYS:HB3	1.67	0.53
1:i:65:HIS:NE2	1:6:492:ASP:O	2.41	0.53
1:i:156:THR:O	1:i:163:THR:OG1	2.25	0.53
1:k:63:LEU:HD23	1:k:203:ALA:HB2	1.90	0.53
1:l:492:ASP:O	1:r:65:HIS:NE2	2.42	0.53
1:m:71:MET:HB2	1:m:75:ARG:NH2	2.23	0.53
1:n:220:ASP:OD1	1:p:360:TRP:HZ3	1.91	0.53
1:o:145:ILE:HD11	1:o:482:LEU:HD21	1.91	0.53
1:o:156:THR:O	1:o:163:THR:OG1	2.25	0.53
1:p:286:ILE:HD11	1:p:327:SER:HB2	1.90	0.53
1:p:492:ASP:O	1:u:65:HIS:NE2	2.41	0.53
1:q:85:PHE:CD1	1:q:99:ASP:CB	2.91	0.53
1:t:145:ILE:HD11	1:t:482:LEU:HD21	1.91	0.53
1:u:286:ILE:HD11	1:u:327:SER:HB2	1.90	0.53
1:u:528:TRP:CG	1:v:246:PRO:HG3	2.41	0.53
1:v:65:HIS:NE2	1:w:492:ASP:O	2.41	0.53
1:v:71:MET:HB2	1:v:75:ARG:NH2	2.23	0.53
1:v:85:PHE:CD1	1:v:99:ASP:CB	2.91	0.53
1:v:85:PHE:CD1	1:v:99:ASP:HB2	2.44	0.53
1:w:343:SER:HB3	1:w:345:GLY:O	2.08	0.53
1:y:85:PHE:CD1	1:y:99:ASP:CB	2.91	0.53
1:6:194:ASP:HB3	1:6:207:PRO:HB3	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:85:PHE:CD1	1:A:99:ASP:HB2	2.44	0.53
1:A:156:THR:O	1:A:163:THR:OG1	2.25	0.53
1:C:343:SER:HB3	1:C:345:GLY:O	2.08	0.53
1:D:85:PHE:CD1	1:D:99:ASP:HB2	2.44	0.53
1:D:338:TRP:O	1:P:414:GLN:N	2.38	0.53
1:E:244:PHE:O	1:E:246:PRO:CD	2.56	0.53
1:E:360:TRP:HZ3	1:Q:220:ASP:OD1	1.92	0.53
1:F:71:MET:HB2	1:F:75:ARG:NH2	2.23	0.53
1:F:145:ILE:HD11	1:F:482:LEU:HD21	1.91	0.53
1:G:191:PHE:CE1	1:G:470:HIS:HE1	2.16	0.53
1:H:341:HIS:HE2	1:Y:406:ASP:CG	2.17	0.53
1:H:528:TRP:HB3	1:W:246:PRO:HG3	1.85	0.53
1:I:145:ILE:HD11	1:I:482:LEU:HD21	1.91	0.53
1:I:334:SER:OG	1:I:435:THR:CG2	2.56	0.53
1:N:129:LEU:HD11	1:N:136:ILE:HD13	1.91	0.53
1:O:94:ARG:HH22	1:h:429:ARG:HH12	1.56	0.53
1:O:246:PRO:HG3	1:h:528:TRP:HB3	1.85	0.53
1:R:129:LEU:HD11	1:R:136:ILE:HD13	1.91	0.53
1:R:286:ILE:HD11	1:R:327:SER:HB2	1.90	0.53
1:S:145:ILE:HD11	1:S:482:LEU:HD21	1.91	0.53
1:T:220:ASP:OD1	1:f:360:TRP:HZ3	1.92	0.53
1:W:145:ILE:HD11	1:W:482:LEU:HD21	1.91	0.53
1:X:220:ASP:OD1	1:4:360:TRP:HZ3	1.92	0.53
1:Z:71:MET:HB2	1:Z:75:ARG:NH2	2.23	0.53
1:Z:286:ILE:HD11	1:Z:327:SER:HB2	1.90	0.53
1:Z:341:HIS:HE2	1:w:406:ASP:CG	2.16	0.53
1:0:85:PHE:CD1	1:0:99:ASP:HB2	2.44	0.53
1:2:360:TRP:HZ3	1:i:220:ASP:OD1	1.91	0.53
1:3:194:ASP:HB3	1:3:207:PRO:HB3	1.89	0.53
1:4:145:ILE:HD11	1:4:482:LEU:HD21	1.91	0.53
1:a:129:LEU:HD11	1:a:136:ILE:HD13	1.91	0.53
1:a:286:ILE:HD11	1:a:327:SER:HB2	1.90	0.53
1:b:286:ILE:HD11	1:b:327:SER:HB2	1.90	0.53
1:d:85:PHE:CD1	1:d:99:ASP:HB2	2.44	0.53
1:e:85:PHE:CD1	1:e:99:ASP:HB2	2.44	0.53
1:m:156:THR:O	1:m:163:THR:OG1	2.25	0.53
1:n:71:MET:HB2	1:n:75:ARG:NH2	2.23	0.53
1:n:343:SER:HB3	1:n:345:GLY:O	2.08	0.53
1:o:37:SER:CA	1:v:257:ARG:HG2	2.32	0.53
1:p:244:PHE:O	1:p:246:PRO:CD	2.56	0.53
1:p:375:GLU:HG2	1:p:396:GLN:HE22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:85:PHE:CD1	1:q:99:ASP:HB2	2.44	0.53
1:q:191:PHE:CE1	1:q:470:HIS:HE1	2.16	0.53
1:r:343:SER:HB3	1:r:345:GLY:O	2.08	0.53
1:t:338:TRP:O	1:v:414:GLN:N	2.37	0.53
1:t:492:ASP:O	1:x:65:HIS:NE2	2.42	0.53
1:u:59:HIS:HE1	1:u:515:LYS:HZ1	1.57	0.53
1:u:85:PHE:CD1	1:u:99:ASP:HB2	2.44	0.53
1:u:343:SER:HB3	1:u:345:GLY:O	2.08	0.53
1:w:63:LEU:HD23	1:w:203:ALA:HB2	1.90	0.53
1:x:63:LEU:HD23	1:x:203:ALA:HB2	1.90	0.53
1:y:129:LEU:HD11	1:y:136:ILE:HD13	1.91	0.53
1:z:145:ILE:HD11	1:z:482:LEU:HD21	1.91	0.53
1:A:492:ASP:O	1:B:65:HIS:NE2	2.40	0.53
1:B:129:LEU:HD11	1:B:136:ILE:HD13	1.91	0.53
1:B:244:PHE:O	1:B:246:PRO:CD	2.56	0.53
1:B:286:ILE:HD11	1:B:327:SER:HB2	1.90	0.53
1:B:492:ASP:O	1:C:65:HIS:NE2	2.41	0.53
1:C:85:PHE:CD1	1:C:99:ASP:HB2	2.44	0.53
1:C:406:ASP:CG	1:1:341:HIS:HE2	2.17	0.53
1:E:375:GLU:HG2	1:E:396:GLN:HE22	1.73	0.53
1:F:173:LEU:HD22	1:F:255:LEU:HD12	1.91	0.53
1:F:375:GLU:HG2	1:F:396:GLN:HE22	1.73	0.53
1:H:63:LEU:HD23	1:H:203:ALA:HB2	1.90	0.53
1:H:220:ASP:OD1	1:Y:360:TRP:HZ3	1.92	0.53
1:J:360:TRP:HZ3	1:L:220:ASP:OD1	1.92	0.53
1:J:414:GLN:N	1:L:338:TRP:O	2.38	0.53
1:K:145:ILE:HD11	1:K:482:LEU:HD21	1.91	0.53
1:K:360:TRP:HZ3	1:0:220:ASP:OD1	1.92	0.53
1:K:429:ARG:HH12	1:0:94:ARG:HH22	1.56	0.53
1:L:286:ILE:HD11	1:L:327:SER:HB2	1.90	0.53
1:M:246:PRO:HG3	1:1:528:TRP:CG	2.41	0.53
1:M:375:GLU:HG2	1:M:396:GLN:HE22	1.73	0.53
1:N:343:SER:HB3	1:N:345:GLY:O	2.08	0.53
1:N:414:GLN:N	1:P:338:TRP:O	2.38	0.53
1:O:220:ASP:OD1	1:h:360:TRP:HZ3	1.92	0.53
1:Q:71:MET:HB2	1:Q:75:ARG:NH2	2.23	0.53
1:Q:85:PHE:CD1	1:Q:99:ASP:CB	2.91	0.53
1:R:429:ARG:HH12	1:S:94:ARG:HH22	1.55	0.53
1:S:63:LEU:HD23	1:S:203:ALA:HB2	1.90	0.53
1:T:156:THR:O	1:T:163:THR:OG1	2.25	0.53
1:W:129:LEU:HD11	1:W:136:ILE:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:360:TRP:HZ3	1:x:220:ASP:OD1	1.92	0.53
1:Z:406:ASP:CG	1:x:341:HIS:HE2	2.17	0.53
1:1:343:SER:HB3	1:1:345:GLY:O	2.08	0.53
1:5:375:GLU:HG2	1:5:396:GLN:HE22	1.72	0.53
1:a:244:PHE:O	1:a:246:PRO:CD	2.56	0.53
1:a:375:GLU:HG2	1:a:396:GLN:HE22	1.73	0.53
1:b:191:PHE:CE1	1:b:470:HIS:HE1	2.16	0.53
1:c:220:ASP:OD1	1:e:360:TRP:HZ3	1.92	0.53
1:d:173:LEU:HD22	1:d:255:LEU:HD12	1.91	0.53
1:d:406:ASP:CG	1:e:341:HIS:HE2	2.17	0.53
1:g:375:GLU:HG2	1:g:396:GLN:HE22	1.73	0.53
1:g:414:GLN:N	1:h:338:TRP:O	2.37	0.53
1:h:71:MET:HB2	1:h:75:ARG:NH2	2.23	0.53
1:i:109:TRP:HZ3	1:i:485:LYS:HB3	1.67	0.53
1:n:85:PHE:CD1	1:n:99:ASP:CB	2.91	0.53
1:n:431:SER:OG	1:n:433:HIS:CE1	2.58	0.53
1:o:71:MET:HB2	1:o:75:ARG:NH2	2.23	0.53
1:o:375:GLU:HG2	1:o:396:GLN:HE22	1.72	0.53
1:p:343:SER:HB3	1:p:345:GLY:O	2.08	0.53
1:q:145:ILE:HD11	1:q:482:LEU:HD21	1.91	0.53
1:r:129:LEU:HD11	1:r:136:ILE:HD13	1.91	0.53
1:s:450:PRO:HD2	1:s:451:TRP:CZ3	2.42	0.53
1:t:71:MET:HB2	1:t:75:ARG:NH2	2.23	0.53
1:t:98:ASN:HA	1:v:323:SER:HG	1.72	0.53
1:t:334:SER:OG	1:t:435:THR:CG2	2.56	0.53
1:t:406:ASP:CG	1:u:341:HIS:HE2	2.16	0.53
1:v:129:LEU:HD11	1:v:136:ILE:HD13	1.91	0.53
1:v:145:ILE:HD11	1:v:482:LEU:HD21	1.91	0.53
1:w:129:LEU:HD11	1:w:136:ILE:HD13	1.91	0.53
1:w:145:ILE:HD11	1:w:482:LEU:HD21	1.91	0.53
1:y:63:LEU:HD23	1:y:203:ALA:HB2	1.90	0.53
1:y:71:MET:HB2	1:y:75:ARG:NH2	2.23	0.53
1:y:286:ILE:HD11	1:y:327:SER:HB2	1.90	0.53
1:y:429:ARG:HH12	1:z:94:ARG:HH22	1.55	0.53
1:A:341:HIS:HE2	1:I:406:ASP:CG	2.16	0.53
1:A:417:LEU:HB2	1:G:338:TRP:CD1	2.44	0.53
1:B:406:ASP:CG	1:J:341:HIS:HE2	2.16	0.53
1:C:360:TRP:HZ3	1:1:220:ASP:OD1	1.92	0.53
1:D:145:ILE:HD11	1:D:482:LEU:HD21	1.91	0.53
1:G:129:LEU:HD11	1:G:136:ILE:HD13	1.91	0.53
1:H:85:PHE:CD1	1:H:99:ASP:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:109:TRP:HZ3	1:H:485:LYS:HB3	1.67	0.53
1:I:71:MET:HB2	1:I:75:ARG:NH2	2.23	0.53
1:L:191:PHE:CE1	1:L:470:HIS:HE1	2.16	0.53
1:M:85:PHE:CD1	1:M:99:ASP:HB2	2.44	0.53
1:N:85:PHE:CD1	1:N:99:ASP:CB	2.91	0.53
1:N:85:PHE:CD1	1:N:99:ASP:HB2	2.44	0.53
1:N:360:TRP:HZ3	1:P:220:ASP:OD1	1.92	0.53
1:O:375:GLU:HG2	1:O:396:GLN:HE22	1.73	0.53
1:P:173:LEU:HD22	1:P:255:LEU:HD12	1.91	0.53
1:Q:85:PHE:CD1	1:Q:99:ASP:HB2	2.44	0.53
1:R:63:LEU:HD23	1:R:203:ALA:HB2	1.90	0.53
1:R:71:MET:HB2	1:R:75:ARG:NH2	2.23	0.53
1:R:528:TRP:CB	1:S:246:PRO:CG	2.65	0.53
1:T:85:PHE:CD1	1:T:99:ASP:HB2	2.44	0.53
1:T:492:ASP:O	1:c:65:HIS:NE2	2.41	0.53
1:V:220:ASP:OD1	1:X:360:TRP:HZ3	1.92	0.53
1:Y:37:SER:CA	1:x:257:ARG:HG2	2.31	0.53
1:Y:71:MET:HB2	1:Y:75:ARG:NH2	2.23	0.53
1:Z:220:ASP:OD1	1:w:360:TRP:HZ3	1.92	0.53
1:0:360:TRP:HZ3	1:7:220:ASP:OD1	1.92	0.53
1:1:71:MET:HB2	1:1:75:ARG:NH2	2.23	0.53
1:3:85:PHE:CD1	1:3:99:ASP:CB	2.91	0.53
1:5:246:PRO:HG3	1:a:528:TRP:CG	2.41	0.53
1:5:341:HIS:HE2	1:a:406:ASP:CG	2.16	0.53
1:a:85:PHE:CD1	1:a:99:ASP:HB2	2.44	0.53
1:d:65:HIS:NE2	1:r:492:ASP:O	2.41	0.53
1:e:380:ASP:OD1	1:e:391:ARG:NH2	2.30	0.53
1:f:375:GLU:HG2	1:f:396:GLN:HE22	1.73	0.53
1:h:129:LEU:HD11	1:h:136:ILE:HD13	1.91	0.53
1:h:173:LEU:HD22	1:h:255:LEU:HD12	1.91	0.53
1:k:375:GLU:HG2	1:k:396:GLN:HE22	1.73	0.53
1:m:129:LEU:HD11	1:m:136:ILE:HD13	1.91	0.53
1:m:244:PHE:HE2	1:m:246:PRO:HB3	1.63	0.53
1:n:85:PHE:CD1	1:n:99:ASP:HB2	2.44	0.53
1:n:360:TRP:HZ3	1:o:220:ASP:OD1	1.92	0.53
1:o:173:LEU:HD22	1:o:255:LEU:HD12	1.91	0.53
1:r:360:TRP:HZ3	1:s:220:ASP:OD1	1.92	0.53
1:x:85:PHE:CD1	1:x:99:ASP:HB2	2.44	0.53
1:y:244:PHE:O	1:y:246:PRO:CD	2.56	0.53
1:z:63:LEU:HD23	1:z:203:ALA:HB2	1.90	0.53
1:A:37:SER:CB	1:E:257:ARG:CG	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:391:ARG:HH22	1:I:309:ASN:HB2	1.74	0.53
1:B:85:PHE:CD1	1:B:99:ASP:HB2	2.44	0.53
1:B:375:GLU:HG2	1:B:396:GLN:HE22	1.73	0.53
1:B:528:TRP:CG	1:J:246:PRO:HG3	2.41	0.53
1:C:380:ASP:OD1	1:C:391:ARG:NH2	2.30	0.53
1:F:220:ASP:OD1	1:Q:360:TRP:HZ3	1.92	0.53
1:G:145:ILE:HD11	1:G:482:LEU:HD21	1.91	0.53
1:G:173:LEU:HD22	1:G:255:LEU:HD12	1.91	0.53
1:G:375:GLU:HG2	1:G:396:GLN:HE22	1.73	0.53
1:G:414:GLN:N	1:I:338:TRP:O	2.37	0.53
1:H:59:HIS:HE1	1:H:515:LYS:HZ1	1.55	0.53
1:H:429:ARG:HH12	1:W:94:ARG:HH22	1.56	0.53
1:J:63:LEU:HD23	1:J:203:ALA:HB2	1.90	0.53
1:K:220:ASP:OD1	1:7:360:TRP:HZ3	1.92	0.53
1:M:173:LEU:HD22	1:M:255:LEU:HD12	1.91	0.53
1:M:244:PHE:O	1:M:246:PRO:CD	2.56	0.53
1:O:65:HIS:NE2	1:P:492:ASP:O	2.41	0.53
1:R:244:PHE:O	1:R:246:PRO:CD	2.56	0.53
1:R:343:SER:HB3	1:R:345:GLY:O	2.08	0.53
1:T:129:LEU:HD11	1:T:136:ILE:HD13	1.91	0.53
1:W:63:LEU:HD23	1:W:203:ALA:HB2	1.90	0.53
1:X:63:LEU:HD23	1:X:203:ALA:HB2	1.90	0.53
1:Y:334:SER:OG	1:Y:435:THR:CG2	2.56	0.53
1:Z:334:SER:OG	1:Z:435:THR:CG2	2.56	0.53
1:0:63:LEU:HD23	1:0:203:ALA:HB2	1.90	0.53
1:1:85:PHE:CD1	1:1:99:ASP:CB	2.91	0.53
1:1:145:ILE:HD11	1:1:482:LEU:HD21	1.91	0.53
1:c:71:MET:HB2	1:c:75:ARG:NH2	2.23	0.53
1:d:244:PHE:O	1:d:246:PRO:CD	2.56	0.53
1:d:429:ARG:HH12	1:e:94:ARG:HH22	1.55	0.53
1:f:85:PHE:CD1	1:f:99:ASP:HB2	2.44	0.53
1:f:129:LEU:HD11	1:f:136:ILE:HD13	1.91	0.53
1:f:343:SER:HB3	1:f:345:GLY:O	2.08	0.53
1:g:85:PHE:CD1	1:g:99:ASP:CB	2.91	0.53
1:g:547:PRO:HA	1:g:553:PHE:HB3	1.91	0.53
1:h:244:PHE:HE2	1:h:246:PRO:HB3	1.63	0.53
1:h:492:ASP:O	1:l:65:HIS:NE2	2.41	0.53
1:i:85:PHE:CD1	1:i:99:ASP:HB2	2.44	0.53
1:i:244:PHE:O	1:i:246:PRO:CD	2.56	0.53
1:i:316:ARG:HH21	1:j:98:ASN:HB2	1.67	0.53
1:j:85:PHE:CD1	1:j:99:ASP:CB	2.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:59:HIS:HE1	1:k:515:LYS:HZ1	1.56	0.53
1:k:94:ARG:HH22	1:m:429:ARG:HH12	1.56	0.53
1:k:246:PRO:HG3	1:m:528:TRP:HB3	1.85	0.53
1:l:85:PHE:CD1	1:l:99:ASP:CB	2.91	0.53
1:l:375:GLU:HG2	1:l:396:GLN:HE22	1.73	0.53
1:l:414:GLN:N	1:m:338:TRP:O	2.38	0.53
1:m:173:LEU:HD22	1:m:255:LEU:HD12	1.91	0.53
1:o:547:PRO:HA	1:o:553:PHE:HB3	1.91	0.53
1:p:37:SER:CB	1:q:257:ARG:CG	2.72	0.53
1:r:85:PHE:CD1	1:r:99:ASP:CB	2.92	0.53
1:r:85:PHE:CD1	1:r:99:ASP:HB2	2.44	0.53
1:s:173:LEU:HD22	1:s:255:LEU:HD12	1.91	0.53
1:w:94:ARG:HH22	1:x:429:ARG:HH12	1.56	0.53
1:w:246:PRO:HG3	1:x:528:TRP:HB3	1.85	0.53
1:x:109:TRP:HZ3	1:x:485:LYS:HB3	1.67	0.53
1:A:129:LEU:HD11	1:A:136:ILE:HD13	1.91	0.53
1:B:85:PHE:CD1	1:B:99:ASP:CB	2.91	0.53
1:D:191:PHE:CE1	1:D:470:HIS:HE1	2.16	0.53
1:E:220:ASP:OD1	1:F:360:TRP:HZ3	1.92	0.53
1:E:547:PRO:HA	1:E:553:PHE:HB3	1.91	0.53
1:F:85:PHE:CD1	1:F:99:ASP:HB2	2.44	0.53
1:F:492:ASP:O	1:R:65:HIS:NE2	2.41	0.53
1:F:547:PRO:HA	1:F:553:PHE:HB3	1.91	0.53
1:G:244:PHE:O	1:G:246:PRO:CD	2.56	0.53
1:G:286:ILE:HD11	1:G:327:SER:HB2	1.90	0.53
1:H:98:ASN:HA	1:Y:323:SER:HG	1.71	0.53
1:I:244:PHE:O	1:I:246:PRO:CD	2.56	0.53
1:J:59:HIS:HE1	1:J:515:LYS:HZ1	1.57	0.53
1:K:341:HIS:HE2	1:7:406:ASP:CG	2.16	0.53
1:N:375:GLU:HG2	1:N:396:GLN:HE22	1.73	0.53
1:O:360:TRP:HZ3	1:g:220:ASP:OD1	1.92	0.53
1:Q:65:HIS:NE2	1:S:492:ASP:O	2.41	0.53
1:T:244:PHE:O	1:T:246:PRO:CD	2.56	0.53
1:V:360:TRP:HZ3	1:4:220:ASP:OD1	1.92	0.53
1:V:406:ASP:CG	1:4:341:HIS:HE2	2.16	0.53
1:W:85:PHE:CD1	1:W:99:ASP:HB2	2.44	0.53
1:W:360:TRP:HZ3	1:Y:220:ASP:OD1	1.92	0.53
1:X:129:LEU:HD11	1:X:136:ILE:HD13	1.91	0.53
1:Z:129:LEU:HD11	1:Z:136:ILE:HD13	1.91	0.53
1:0:129:LEU:HD11	1:0:136:ILE:HD13	1.91	0.53
1:2:85:PHE:CD1	1:2:99:ASP:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:129:LEU:HD11	1:2:136:ILE:HD13	1.91	0.53
1:2:145:ILE:HD11	1:2:482:LEU:HD21	1.91	0.53
1:2:375:GLU:HG2	1:2:396:GLN:HE22	1.73	0.53
1:4:375:GLU:HG2	1:4:396:GLN:HE22	1.73	0.53
1:5:63:LEU:HD23	1:5:203:ALA:HB2	1.90	0.53
1:a:85:PHE:CD1	1:a:99:ASP:CB	2.91	0.53
1:a:300:GLY:HA2	1:a:301:GLN:CB	2.33	0.53
1:b:145:ILE:HD11	1:b:482:LEU:HD21	1.91	0.53
1:c:85:PHE:CD1	1:c:99:ASP:CB	2.91	0.53
1:c:343:SER:HB3	1:c:345:GLY:O	2.08	0.53
1:d:71:MET:HB2	1:d:75:ARG:NH2	2.23	0.53
1:d:375:GLU:HG2	1:d:396:GLN:HE22	1.73	0.53
1:e:492:ASP:O	1:q:65:HIS:NE2	2.41	0.53
1:f:145:ILE:HD11	1:f:482:LEU:HD21	1.91	0.53
1:g:145:ILE:HD11	1:g:482:LEU:HD21	1.91	0.53
1:h:85:PHE:CD1	1:h:99:ASP:HB2	2.44	0.53
1:i:129:LEU:HD11	1:i:136:ILE:HD13	1.91	0.53
1:k:220:ASP:OD1	1:m:360:TRP:HZ3	1.92	0.53
1:k:360:TRP:HZ3	1:l:220:ASP:OD1	1.92	0.53
1:l:145:ILE:HD11	1:l:482:LEU:HD21	1.91	0.53
1:l:406:ASP:CG	1:m:341:HIS:HE2	2.16	0.53
1:m:85:PHE:CD1	1:m:99:ASP:HB2	2.44	0.53
1:n:417:LEU:HB2	1:o:338:TRP:CD1	2.44	0.53
1:p:547:PRO:HA	1:p:553:PHE:HB3	1.91	0.53
1:q:71:MET:HB2	1:q:75:ARG:NH2	2.23	0.53
1:r:414:GLN:N	1:s:338:TRP:O	2.38	0.53
1:s:85:PHE:CD1	1:s:99:ASP:CB	2.91	0.53
1:s:85:PHE:CD1	1:s:99:ASP:HB2	2.44	0.53
1:t:98:ASN:HB2	1:v:316:ARG:HH21	1.67	0.53
1:t:244:PHE:O	1:t:246:PRO:CD	2.56	0.53
1:t:414:GLN:N	1:u:338:TRP:O	2.37	0.53
1:u:244:PHE:CE2	1:u:246:PRO:CB	2.76	0.53
1:u:360:TRP:HZ3	1:v:220:ASP:OD1	1.91	0.53
1:v:244:PHE:O	1:v:246:PRO:CD	2.56	0.53
1:v:375:GLU:HG2	1:v:396:GLN:HE22	1.73	0.53
1:w:85:PHE:CD1	1:w:99:ASP:HB2	2.44	0.53
1:x:59:HIS:HE1	1:x:515:LYS:HZ1	1.55	0.53
1:y:343:SER:HB3	1:y:345:GLY:O	2.08	0.53
1:7:85:PHE:CD1	1:7:99:ASP:CB	2.91	0.53
1:B:343:SER:HB3	1:B:345:GLY:O	2.08	0.53
1:B:413:HIS:HA	1:J:339:GLN:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:63:LEU:HD23	1:C:203:ALA:HB2	1.90	0.53
1:D:71:MET:HB2	1:D:75:ARG:NH2	2.23	0.53
1:E:85:PHE:CD1	1:E:99:ASP:CB	2.91	0.53
1:F:338:TRP:CD1	1:Q:417:LEU:HB2	2.44	0.53
1:G:316:ARG:HH21	1:I:98:ASN:HB2	1.67	0.53
1:G:360:TRP:HZ3	1:I:220:ASP:OD1	1.92	0.53
1:I:85:PHE:CD1	1:I:99:ASP:CB	2.91	0.53
1:J:85:PHE:CD1	1:J:99:ASP:CB	2.91	0.53
1:K:71:MET:HB2	1:K:75:ARG:NH2	2.23	0.53
1:K:246:PRO:HG3	1:7:528:TRP:HB3	1.85	0.53
1:L:145:ILE:HD11	1:L:482:LEU:HD21	1.91	0.53
1:L:343:SER:HB3	1:L:345:GLY:O	2.08	0.53
1:M:71:MET:HB2	1:M:75:ARG:NH2	2.23	0.53
1:N:547:PRO:HA	1:N:553:PHE:HB3	1.91	0.53
1:O:59:HIS:HE1	1:O:515:LYS:HZ1	1.56	0.53
1:O:343:SER:HB3	1:O:345:GLY:O	2.08	0.53
1:O:417:LEU:HB2	1:g:338:TRP:CD1	2.44	0.53
1:P:65:HIS:NE2	1:Q:492:ASP:O	2.42	0.53
1:P:85:PHE:CD1	1:P:99:ASP:CB	2.91	0.53
1:P:85:PHE:CD1	1:P:99:ASP:HB2	2.44	0.53
1:R:417:LEU:HB2	1:S:338:TRP:CD1	2.44	0.53
1:T:85:PHE:CD1	1:T:99:ASP:CB	2.91	0.53
1:T:338:TRP:CD1	1:f:417:LEU:HB2	2.44	0.53
1:T:338:TRP:O	1:f:414:GLN:N	2.38	0.53
1:U:85:PHE:CD1	1:U:99:ASP:CB	2.91	0.53
1:U:145:ILE:HD11	1:U:482:LEU:HD21	1.91	0.53
1:V:85:PHE:CD1	1:V:99:ASP:CB	2.91	0.53
1:Y:85:PHE:CD1	1:Y:99:ASP:CB	2.91	0.53
1:Z:85:PHE:CD1	1:Z:99:ASP:HB2	2.44	0.53
1:1:65:HIS:NE2	1:i:492:ASP:O	2.41	0.53
1:2:343:SER:HB3	1:2:345:GLY:O	2.08	0.53
1:2:417:LEU:HB2	1:i:338:TRP:CD1	2.44	0.53
1:3:100:SER:O	1:3:100:SER:OG	2.23	0.53
1:3:360:TRP:HZ3	1:f:220:ASP:OD1	1.92	0.53
1:4:71:MET:HB2	1:4:75:ARG:NH2	2.23	0.53
1:5:85:PHE:CD1	1:5:99:ASP:CB	2.91	0.53
1:5:339:GLN:HA	1:a:413:HIS:HA	1.91	0.53
1:b:71:MET:HB2	1:b:75:ARG:NH2	2.23	0.53
1:b:343:SER:HB3	1:b:345:GLY:O	2.08	0.53
1:c:145:ILE:HD11	1:c:482:LEU:HD21	1.91	0.53
1:c:360:TRP:HZ3	1:d:220:ASP:OD1	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:528:TRP:CG	1:d:246:PRO:HG3	2.41	0.53
1:f:59:HIS:HE1	1:f:515:LYS:HZ1	1.57	0.53
1:i:85:PHE:CD1	1:i:99:ASP:CB	2.92	0.53
1:i:343:SER:HB3	1:i:345:GLY:O	2.08	0.53
1:j:492:ASP:O	1:z:65:HIS:NE2	2.41	0.53
1:k:85:PHE:CD1	1:k:99:ASP:CB	2.91	0.53
1:k:338:TRP:CD1	1:m:417:LEU:HB2	2.44	0.53
1:k:343:SER:HB3	1:k:345:GLY:O	2.08	0.53
1:l:360:TRP:HZ3	1:m:220:ASP:OD1	1.92	0.53
1:l:547:PRO:HA	1:l:553:PHE:HB3	1.91	0.53
1:n:65:HIS:NE2	1:z:492:ASP:O	2.41	0.53
1:n:492:ASP:O	1:s:65:HIS:NE2	2.42	0.53
1:n:547:PRO:HA	1:n:553:PHE:HB3	1.91	0.53
1:o:85:PHE:CD1	1:o:99:ASP:HB2	2.44	0.53
1:o:492:ASP:O	1:y:65:HIS:NE2	2.41	0.53
1:p:85:PHE:CD1	1:p:99:ASP:CB	2.92	0.53
1:q:375:GLU:HG2	1:q:396:GLN:HE22	1.73	0.53
1:r:375:GLU:HG2	1:r:396:GLN:HE22	1.73	0.53
1:s:547:PRO:HA	1:s:553:PHE:HB3	1.91	0.53
1:t:85:PHE:CD1	1:t:99:ASP:CB	2.91	0.53
1:t:220:ASP:OD1	1:v:360:TRP:HZ3	1.92	0.53
1:u:129:LEU:HD11	1:u:136:ILE:HD13	1.91	0.53
1:u:244:PHE:O	1:u:246:PRO:CD	2.56	0.53
1:v:63:LEU:HD23	1:v:203:ALA:HB2	1.90	0.53
1:v:173:LEU:HD22	1:v:255:LEU:HD12	1.91	0.53
1:v:191:PHE:CE1	1:v:470:HIS:HE1	2.16	0.53
1:v:286:ILE:HD11	1:v:327:SER:HB2	1.90	0.53
1:y:246:PRO:HG3	1:6:528:TRP:CG	2.41	0.53
1:y:417:LEU:HB2	1:z:338:TRP:CD1	2.44	0.53
1:z:173:LEU:HD22	1:z:255:LEU:HD12	1.91	0.53
1:6:244:PHE:O	1:6:246:PRO:CD	2.56	0.53
1:7:85:PHE:CD1	1:7:99:ASP:HB2	2.44	0.53
1:7:173:LEU:HD22	1:7:255:LEU:HD12	1.91	0.53
1:A:244:PHE:O	1:A:246:PRO:CD	2.56	0.53
1:C:492:ASP:O	1:D:65:HIS:NE2	2.42	0.53
1:D:94:ARG:HH22	1:P:429:ARG:HH12	1.56	0.53
1:E:338:TRP:CD1	1:F:417:LEU:HB2	2.44	0.53
1:F:65:HIS:NE2	1:G:492:ASP:O	2.41	0.53
1:F:286:ILE:HD11	1:F:327:SER:HB2	1.90	0.53
1:G:417:LEU:HB2	1:I:338:TRP:CD1	2.44	0.53
1:G:547:PRO:HA	1:G:553:PHE:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:257:ARG:HG2	1:Z:37:SER:CA	2.31	0.53
1:H:391:ARG:HH22	1:Y:309:ASN:HB2	1.74	0.53
1:J:375:GLU:HG2	1:J:396:GLN:HE22	1.73	0.53
1:L:63:LEU:HD23	1:L:203:ALA:HB2	1.90	0.53
1:L:71:MET:HB2	1:L:75:ARG:NH2	2.23	0.53
1:L:129:LEU:HD11	1:L:136:ILE:HD13	1.91	0.53
1:M:129:LEU:HD11	1:M:136:ILE:HD13	1.91	0.53
1:M:220:ASP:OD1	1:1:360:TRP:HZ3	1.92	0.53
1:O:71:MET:HB2	1:O:75:ARG:NH2	2.23	0.53
1:O:85:PHE:CD1	1:O:99:ASP:CB	2.92	0.53
1:P:547:PRO:HA	1:P:553:PHE:HB3	1.91	0.53
1:Q:547:PRO:HA	1:Q:553:PHE:HB3	1.91	0.53
1:R:246:PRO:HG3	1:U:528:TRP:CG	2.41	0.53
1:S:65:HIS:NE2	1:3:492:ASP:O	2.41	0.53
1:S:173:LEU:HD22	1:S:255:LEU:HD12	1.91	0.53
1:S:560:GLY:H	1:S:562:ALA:N	2.07	0.53
1:T:360:TRP:HZ3	1:3:220:ASP:OD1	1.91	0.53
1:T:391:ARG:HH22	1:f:309:ASN:HB2	1.74	0.53
1:T:429:ARG:HH12	1:3:94:ARG:NH2	2.07	0.53
1:V:173:LEU:HD22	1:V:255:LEU:HD12	1.91	0.53
1:Y:85:PHE:CD1	1:Y:99:ASP:HB2	2.44	0.53
1:Y:129:LEU:HD11	1:Y:136:ILE:HD13	1.91	0.53
1:Y:244:PHE:O	1:Y:246:PRO:CD	2.56	0.53
1:Y:560:GLY:H	1:Y:562:ALA:N	2.07	0.53
1:Z:85:PHE:CD1	1:Z:99:ASP:CB	2.91	0.53
1:Z:323:SER:HG	1:x:98:ASN:HA	1.71	0.53
1:2:220:ASP:OD1	1:j:360:TRP:HZ3	1.92	0.53
1:2:309:ASN:HB2	1:i:391:ARG:HH22	1.74	0.53
1:2:338:TRP:CD1	1:j:417:LEU:HB2	2.44	0.53
1:3:244:PHE:O	1:3:246:PRO:CD	2.56	0.53
1:4:286:ILE:HD11	1:4:327:SER:HB2	1.90	0.53
1:a:343:SER:HB3	1:a:345:GLY:O	2.08	0.53
1:a:492:ASP:O	1:e:65:HIS:NE2	2.42	0.53
1:b:63:LEU:HD23	1:b:203:ALA:HB2	1.90	0.53
1:d:129:LEU:HD11	1:d:136:ILE:HD13	1.91	0.53
1:e:71:MET:HB2	1:e:75:ARG:NH2	2.23	0.53
1:g:85:PHE:CD1	1:g:99:ASP:HB2	2.44	0.53
1:g:173:LEU:HD22	1:g:255:LEU:HD12	1.91	0.53
1:h:100:SER:O	1:h:100:SER:OG	2.23	0.53
1:h:286:ILE:HD11	1:h:327:SER:HB2	1.90	0.53
1:i:429:ARG:HH12	1:j:94:ARG:NH2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:65:HIS:NE2	1:k:492:ASP:O	2.41	0.53
1:j:244:PHE:O	1:j:246:PRO:CD	2.56	0.53
1:k:71:MET:HB2	1:k:75:ARG:NH2	2.23	0.53
1:m:286:ILE:HD11	1:m:327:SER:HB2	1.90	0.53
1:o:360:TRP:HZ3	1:p:220:ASP:OD1	1.92	0.53
1:o:413:HIS:HA	1:p:339:GLN:HA	1.91	0.53
1:r:547:PRO:HA	1:r:553:PHE:HB3	1.91	0.53
1:s:145:ILE:HD11	1:s:482:LEU:HD21	1.91	0.53
1:t:338:TRP:CD1	1:v:417:LEU:HB2	2.44	0.53
1:t:343:SER:HB3	1:t:345:GLY:O	2.08	0.53
1:u:173:LEU:HD22	1:u:255:LEU:HD12	1.91	0.53
1:u:414:GLN:N	1:v:338:TRP:O	2.38	0.53
1:y:85:PHE:CD1	1:y:99:ASP:HB2	2.44	0.53
1:y:339:GLN:HA	1:6:413:HIS:HA	1.91	0.53
1:z:547:PRO:HA	1:z:553:PHE:HB3	1.91	0.53
1:6:85:PHE:CD1	1:6:99:ASP:CB	2.92	0.53
1:A:173:LEU:HD22	1:A:255:LEU:HD12	1.91	0.53
1:A:429:ARG:HH12	1:G:94:ARG:NH2	2.07	0.53
1:A:560:GLY:H	1:A:562:ALA:N	2.07	0.53
1:C:71:MET:HB2	1:C:75:ARG:NH2	2.23	0.53
1:D:63:LEU:HD23	1:D:203:ALA:HB2	1.90	0.53
1:D:220:ASP:OD1	1:P:360:TRP:HZ3	1.92	0.53
1:D:257:ARG:CG	1:E:37:SER:CB	2.72	0.53
1:E:339:GLN:HA	1:F:413:HIS:HA	1.91	0.53
1:F:129:LEU:HD11	1:F:136:ILE:HD13	1.91	0.53
1:F:244:PHE:O	1:F:246:PRO:CD	2.56	0.53
1:F:244:PHE:HE2	1:F:246:PRO:HB3	1.63	0.53
1:G:63:LEU:HD23	1:G:203:ALA:HB2	1.90	0.53
1:G:429:ARG:HH12	1:I:94:ARG:NH2	2.07	0.53
1:H:94:ARG:HH22	1:Y:429:ARG:HH12	1.55	0.53
1:K:375:GLU:HG2	1:K:396:GLN:HE22	1.73	0.53
1:L:85:PHE:HD1	1:L:99:ASP:CB	2.22	0.53
1:O:244:PHE:O	1:O:246:PRO:CD	2.56	0.53
1:P:145:ILE:HD11	1:P:482:LEU:HD21	1.91	0.53
1:R:338:TRP:CD1	1:U:417:LEU:HB2	2.44	0.53
1:T:71:MET:HB2	1:T:75:ARG:NH2	2.23	0.53
1:T:343:SER:HB3	1:T:345:GLY:O	2.08	0.53
1:T:547:PRO:HA	1:T:553:PHE:HB3	1.91	0.53
1:U:244:PHE:O	1:U:246:PRO:CD	2.56	0.53
1:U:560:GLY:H	1:U:562:ALA:N	2.07	0.53
1:V:85:PHE:CD1	1:V:99:ASP:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:244:PHE:O	1:V:246:PRO:CD	2.56	0.53
1:W:85:PHE:HD1	1:W:99:ASP:CB	2.22	0.53
1:W:547:PRO:HA	1:W:553:PHE:HB3	1.91	0.53
1:Z:145:ILE:HD11	1:Z:482:LEU:HD21	1.91	0.53
1:Z:244:PHE:O	1:Z:246:PRO:CD	2.56	0.53
1:Z:309:ASN:HB2	1:x:391:ARG:HH22	1.74	0.53
1:2:85:PHE:HD1	1:2:99:ASP:CB	2.22	0.53
1:2:547:PRO:HA	1:2:553:PHE:HB3	1.91	0.53
1:5:309:ASN:HB2	1:b:391:ARG:HH22	1.74	0.53
1:b:85:PHE:HD1	1:b:99:ASP:CB	2.22	0.53
1:f:85:PHE:HD1	1:f:99:ASP:CB	2.22	0.53
1:f:101:TYR:CZ	1:f:236:GLY:HA3	2.44	0.53
1:f:547:PRO:HA	1:f:553:PHE:HB3	1.91	0.53
1:g:65:HIS:NE2	1:m:492:ASP:O	2.41	0.53
1:g:406:ASP:CG	1:h:341:HIS:HE2	2.16	0.53
1:h:85:PHE:CD1	1:h:99:ASP:CB	2.91	0.53
1:h:547:PRO:HA	1:h:553:PHE:HB3	1.91	0.53
1:i:71:MET:HB2	1:i:75:ARG:NH2	2.23	0.53
1:i:547:PRO:HA	1:i:553:PHE:HB3	1.91	0.53
1:k:65:HIS:NE2	1:s:492:ASP:O	2.41	0.53
1:k:417:LEU:HB2	1:l:338:TRP:CD1	2.44	0.53
1:l:85:PHE:CD1	1:l:99:ASP:HB2	2.44	0.53
1:m:85:PHE:CD1	1:m:99:ASP:CB	2.91	0.53
1:m:109:TRP:HZ3	1:m:485:LYS:HB3	1.67	0.53
1:o:65:HIS:NE2	1:v:492:ASP:O	2.41	0.53
1:o:129:LEU:HD11	1:o:136:ILE:HD13	1.91	0.53
1:o:417:LEU:HB2	1:p:338:TRP:CD1	2.44	0.53
1:o:560:GLY:H	1:o:562:ALA:N	2.07	0.53
1:r:417:LEU:HB2	1:s:338:TRP:CD1	2.44	0.53
1:t:309:ASN:HB2	1:u:391:ARG:HH22	1.74	0.53
1:v:343:SER:HB3	1:v:345:GLY:O	2.08	0.53
1:w:547:PRO:HA	1:w:553:PHE:HB3	1.91	0.53
1:y:338:TRP:CD1	1:6:417:LEU:HB2	2.44	0.53
1:z:560:GLY:H	1:z:562:ALA:N	2.07	0.53
1:6:145:ILE:HD11	1:6:482:LEU:HD21	1.91	0.53
1:6:173:LEU:HD22	1:6:255:LEU:HD12	1.91	0.53
1:6:560:GLY:H	1:6:562:ALA:N	2.07	0.53
1:7:244:PHE:O	1:7:246:PRO:CD	2.56	0.53
1:7:300:GLY:HA2	1:7:301:GLN:CB	2.33	0.53
1:C:94:ARG:HH22	1:M:429:ARG:HH12	1.56	0.52
1:D:59:HIS:HE1	1:D:515:LYS:HZ1	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:338:TRP:CD1	1:P:417:LEU:HB2	2.44	0.52
1:D:375:GLU:HG2	1:D:396:GLN:HE22	1.73	0.52
1:F:560:GLY:H	1:F:562:ALA:N	2.07	0.52
1:G:116:CYS:HB2	1:G:119:VAL:HG23	1.92	0.52
1:H:339:GLN:HA	1:Y:413:HIS:HA	1.92	0.52
1:I:343:SER:HB3	1:I:345:GLY:O	2.08	0.52
1:K:286:ILE:HD11	1:K:327:SER:HB2	1.90	0.52
1:L:85:PHE:CD1	1:L:99:ASP:CB	2.91	0.52
1:N:71:MET:HB2	1:N:75:ARG:NH2	2.23	0.52
1:N:417:LEU:HB2	1:P:338:TRP:CD1	2.44	0.52
1:O:85:PHE:CD1	1:O:99:ASP:HB2	2.44	0.52
1:O:406:ASP:CG	1:g:341:HIS:HE2	2.16	0.52
1:O:492:ASP:O	1:3:65:HIS:NE2	2.41	0.52
1:Q:191:PHE:CE1	1:Q:470:HIS:HE1	2.16	0.52
1:R:85:PHE:HD1	1:R:99:ASP:CB	2.22	0.52
1:R:85:PHE:CD1	1:R:99:ASP:HB2	2.44	0.52
1:R:94:ARG:NH2	1:U:429:ARG:HH12	2.08	0.52
1:R:339:GLN:HA	1:U:413:HIS:HA	1.92	0.52
1:R:547:PRO:HA	1:R:553:PHE:HB3	1.91	0.52
1:S:547:PRO:HA	1:S:553:PHE:HB3	1.91	0.52
1:U:85:PHE:CD1	1:U:99:ASP:HB2	2.44	0.52
1:U:129:LEU:HD11	1:U:136:ILE:HD13	1.91	0.52
1:U:173:LEU:HD22	1:U:255:LEU:HD12	1.91	0.52
1:V:417:LEU:HB2	1:4:338:TRP:CD1	2.44	0.52
1:Y:145:ILE:HD11	1:Y:482:LEU:HD21	1.91	0.52
1:Z:413:HIS:HA	1:x:339:GLN:HA	1.92	0.52
1:Z:560:GLY:H	1:Z:562:ALA:N	2.07	0.52
1:2:414:GLN:N	1:i:338:TRP:O	2.38	0.52
1:2:560:GLY:H	1:2:562:ALA:N	2.07	0.52
1:3:156:THR:O	1:3:163:THR:OG1	2.25	0.52
1:3:417:LEU:HB2	1:f:338:TRP:CD1	2.44	0.52
1:5:323:SER:HG	1:b:98:ASN:HA	1.74	0.52
1:5:429:ARG:NH2	1:b:228:ASN:OD1	2.43	0.52
1:a:560:GLY:H	1:a:562:ALA:N	2.07	0.52
1:b:85:PHE:CD1	1:b:99:ASP:CB	2.91	0.52
1:b:129:LEU:HD11	1:b:136:ILE:HD13	1.91	0.52
1:b:244:PHE:O	1:b:246:PRO:CD	2.56	0.52
1:e:63:LEU:HD23	1:e:203:ALA:HB2	1.90	0.52
1:e:560:GLY:H	1:e:562:ALA:N	2.07	0.52
1:g:360:TRP:HZ3	1:h:220:ASP:OD1	1.92	0.52
1:i:360:TRP:HZ3	1:j:220:ASP:OD1	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:129:LEU:HD11	1:j:136:ILE:HD13	1.91	0.52
1:j:145:ILE:HD11	1:j:482:LEU:HD21	1.91	0.52
1:k:85:PHE:CD1	1:k:99:ASP:HB2	2.44	0.52
1:k:244:PHE:O	1:k:246:PRO:CD	2.56	0.52
1:l:173:LEU:HD22	1:l:255:LEU:HD12	1.91	0.52
1:m:547:PRO:HA	1:m:553:PHE:HB3	1.91	0.52
1:o:244:PHE:O	1:o:246:PRO:CD	2.56	0.52
1:o:286:ILE:HD11	1:o:327:SER:HB2	1.90	0.52
1:o:429:ARG:HH12	1:p:94:ARG:HH22	1.56	0.52
1:p:129:LEU:HD11	1:p:136:ILE:HD13	1.91	0.52
1:p:173:LEU:HD22	1:p:255:LEU:HD12	1.91	0.52
1:q:63:LEU:HD23	1:q:203:ALA:HB2	1.90	0.52
1:q:220:ASP:OD1	1:s:360:TRP:HZ3	1.92	0.52
1:q:338:TRP:CD1	1:s:417:LEU:HB2	2.44	0.52
1:t:94:ARG:NH2	1:v:429:ARG:HH12	2.08	0.52
1:t:360:TRP:HZ3	1:u:220:ASP:OD1	1.91	0.52
1:u:560:GLY:H	1:u:562:ALA:N	2.07	0.52
1:v:116:CYS:HB2	1:v:119:VAL:HG23	1.92	0.52
1:v:547:PRO:HA	1:v:553:PHE:HB3	1.91	0.52
1:w:85:PHE:HD1	1:w:99:ASP:CB	2.23	0.52
1:w:220:ASP:OD1	1:x:360:TRP:HZ3	1.92	0.52
1:y:85:PHE:HD1	1:y:99:ASP:CB	2.22	0.52
1:y:101:TYR:CZ	1:y:236:GLY:HA3	2.44	0.52
1:y:528:TRP:CB	1:z:246:PRO:CG	2.65	0.52
1:y:547:PRO:HA	1:y:553:PHE:HB3	1.91	0.52
1:B:94:ARG:HH22	1:L:429:ARG:HH12	1.56	0.52
1:B:338:TRP:CD1	1:L:417:LEU:HB2	2.44	0.52
1:B:560:GLY:H	1:B:562:ALA:N	2.07	0.52
1:C:413:HIS:HA	1:1:339:GLN:HA	1.91	0.52
1:C:429:ARG:HH12	1:1:94:ARG:HH22	1.56	0.52
1:D:244:PHE:HE2	1:D:246:PRO:HB3	1.63	0.52
1:E:94:ARG:HH22	1:F:429:ARG:HH12	1.56	0.52
1:E:116:CYS:HB2	1:E:119:VAL:HG23	1.91	0.52
1:E:129:LEU:HD11	1:E:136:ILE:HD13	1.91	0.52
1:E:173:LEU:HD22	1:E:255:LEU:HD12	1.91	0.52
1:E:244:PHE:HE2	1:E:246:PRO:HB3	1.63	0.52
1:F:85:PHE:CD1	1:F:99:ASP:CB	2.91	0.52
1:F:339:GLN:HA	1:Q:413:HIS:HA	1.91	0.52
1:G:100:SER:O	1:G:100:SER:OG	2.23	0.52
1:G:343:SER:HB3	1:G:345:GLY:O	2.08	0.52
1:H:246:PRO:CG	1:Y:528:TRP:CB	2.65	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:560:GLY:H	1:I:562:ALA:N	2.07	0.52
1:J:429:ARG:HH12	1:L:94:ARG:NH2	2.08	0.52
1:K:338:TRP:CD1	1:7:417:LEU:HB2	2.44	0.52
1:K:339:GLN:HA	1:7:413:HIS:HA	1.92	0.52
1:L:560:GLY:H	1:L:562:ALA:N	2.07	0.52
1:O:338:TRP:CD1	1:h:417:LEU:HB2	2.44	0.52
1:O:338:TRP:O	1:h:414:GLN:N	2.38	0.52
1:P:116:CYS:HB2	1:P:119:VAL:HG23	1.92	0.52
1:Q:145:ILE:HD11	1:Q:482:LEU:HD21	1.91	0.52
1:R:173:LEU:HD22	1:R:255:LEU:HD12	1.91	0.52
1:S:85:PHE:CD1	1:S:99:ASP:CB	2.91	0.52
1:S:286:ILE:HD11	1:S:327:SER:HB2	1.90	0.52
1:S:429:ARG:HH12	1:U:94:ARG:HH22	1.56	0.52
1:U:375:GLU:HG2	1:U:396:GLN:HE22	1.73	0.52
1:V:339:GLN:HA	1:X:413:HIS:HA	1.92	0.52
1:V:413:HIS:HA	1:4:339:GLN:HA	1.91	0.52
1:W:173:LEU:HD22	1:W:255:LEU:HD12	1.91	0.52
1:X:338:TRP:CD1	1:4:417:LEU:HB2	2.44	0.52
1:Y:65:HIS:NE2	1:x:492:ASP:O	2.41	0.52
1:0:413:HIS:HA	1:7:339:GLN:HA	1.92	0.52
1:1:173:LEU:HD22	1:1:255:LEU:HD12	1.91	0.52
1:3:85:PHE:CD1	1:3:99:ASP:HB2	2.44	0.52
1:3:129:LEU:HD11	1:3:136:ILE:HD13	1.91	0.52
1:3:145:ILE:HD11	1:3:482:LEU:HD21	1.91	0.52
1:4:85:PHE:CD1	1:4:99:ASP:HB2	2.44	0.52
1:5:439:TYR:CE1	1:b:469:ALA:CB	2.83	0.52
1:b:560:GLY:H	1:b:562:ALA:N	2.07	0.52
1:c:94:ARG:HH22	1:e:429:ARG:HH12	1.56	0.52
1:c:429:ARG:HH12	1:d:94:ARG:HH22	1.56	0.52
1:c:547:PRO:HA	1:c:553:PHE:HB3	1.91	0.52
1:d:492:ASP:O	1:f:65:HIS:NE2	2.41	0.52
1:e:375:GLU:HG2	1:e:396:GLN:HE22	1.73	0.52
1:f:560:GLY:H	1:f:562:ALA:N	2.07	0.52
1:j:85:PHE:CD1	1:j:99:ASP:HB2	2.44	0.52
1:k:338:TRP:O	1:m:414:GLN:N	2.37	0.52
1:n:309:ASN:HB2	1:o:391:ARG:HH22	1.74	0.52
1:n:413:HIS:HA	1:o:339:GLN:HA	1.91	0.52
1:p:116:CYS:HB2	1:p:119:VAL:HG23	1.91	0.52
1:p:244:PHE:HE2	1:p:246:PRO:HB3	1.63	0.52
1:r:71:MET:HB2	1:r:75:ARG:NH2	2.23	0.52
1:s:116:CYS:HB2	1:s:119:VAL:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:85:PHE:HD1	1:t:99:ASP:CB	2.22	0.52
1:t:173:LEU:HD22	1:t:255:LEU:HD12	1.91	0.52
1:u:417:LEU:HB2	1:v:338:TRP:CD1	2.44	0.52
1:u:528:TRP:HB3	1:v:246:PRO:HG3	1.85	0.52
1:v:100:SER:O	1:v:100:SER:OG	2.23	0.52
1:w:173:LEU:HD22	1:w:255:LEU:HD12	1.91	0.52
1:y:94:ARG:NH2	1:6:429:ARG:HH12	2.08	0.52
1:y:173:LEU:HD22	1:y:255:LEU:HD12	1.91	0.52
1:y:220:ASP:OD1	1:6:360:TRP:HZ3	1.91	0.52
1:z:85:PHE:CD1	1:z:99:ASP:CB	2.91	0.52
1:6:129:LEU:HD11	1:6:136:ILE:HD13	1.91	0.52
1:6:375:GLU:HG2	1:6:396:GLN:HE22	1.73	0.52
1:A:244:PHE:CE2	1:A:246:PRO:CB	2.76	0.52
1:A:257:ARG:CG	1:B:37:SER:CB	2.71	0.52
1:C:417:LEU:HB2	1:1:338:TRP:CD1	2.44	0.52
1:C:560:GLY:H	1:C:562:ALA:N	2.07	0.52
1:E:101:TYR:CZ	1:E:236:GLY:HA3	2.44	0.52
1:E:391:ARG:HH22	1:F:309:ASN:HB2	1.75	0.52
1:H:129:LEU:HD11	1:H:136:ILE:HD13	1.91	0.52
1:H:173:LEU:HD22	1:H:255:LEU:HD12	1.91	0.52
1:H:338:TRP:CD1	1:Y:417:LEU:HB2	2.44	0.52
1:H:360:TRP:HZ3	1:W:220:ASP:OD1	1.92	0.52
1:H:492:ASP:O	1:Z:65:HIS:NE2	2.41	0.52
1:I:173:LEU:HD22	1:I:255:LEU:HD12	1.91	0.52
1:J:37:SER:HG	1:0:257:ARG:CG	1.98	0.52
1:J:309:ASN:HB2	1:L:391:ARG:HH22	1.75	0.52
1:L:244:PHE:O	1:L:246:PRO:CD	2.56	0.52
1:M:94:ARG:HH22	1:1:429:ARG:HH12	1.56	0.52
1:M:492:ASP:O	1:2:65:HIS:NE2	2.41	0.52
1:Q:244:PHE:O	1:Q:246:PRO:CD	2.56	0.52
1:R:101:TYR:CZ	1:R:236:GLY:HA3	2.44	0.52
1:R:220:ASP:OD1	1:U:360:TRP:HZ3	1.92	0.52
1:R:246:PRO:HG3	1:U:528:TRP:HB3	1.86	0.52
1:R:360:TRP:HZ3	1:S:220:ASP:OD1	1.92	0.52
1:V:309:ASN:HB2	1:4:391:ARG:HH22	1.74	0.52
1:V:560:GLY:H	1:V:562:ALA:N	2.07	0.52
1:X:37:SER:HG	1:Y:257:ARG:CG	1.96	0.52
1:X:560:GLY:H	1:X:562:ALA:N	2.07	0.52
1:Z:417:LEU:HB2	1:x:338:TRP:CD1	2.44	0.52
1:Z:429:ARG:HH12	1:x:94:ARG:HH22	1.56	0.52
1:0:560:GLY:H	1:0:562:ALA:N	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:547:PRO:HA	1:1:553:PHE:HB3	1.91	0.52
1:2:85:PHE:CD1	1:2:99:ASP:CB	2.91	0.52
1:a:65:HIS:NE2	1:u:492:ASP:O	2.41	0.52
1:a:116:CYS:HB2	1:a:119:VAL:HG23	1.92	0.52
1:c:391:ARG:HH22	1:e:309:ASN:HB2	1.74	0.52
1:g:413:HIS:HA	1:h:339:GLN:HA	1.91	0.52
1:j:156:THR:O	1:j:163:THR:OG1	2.25	0.52
1:k:406:ASP:CG	1:l:341:HIS:HE2	2.16	0.52
1:m:100:SER:O	1:m:100:SER:OG	2.23	0.52
1:m:145:ILE:HD11	1:m:482:LEU:HD21	1.91	0.52
1:n:145:ILE:HD11	1:n:482:LEU:HD21	1.91	0.52
1:n:244:PHE:O	1:n:246:PRO:CD	2.56	0.52
1:o:85:PHE:CD1	1:o:99:ASP:CB	2.91	0.52
1:o:309:ASN:HB2	1:p:391:ARG:HH22	1.75	0.52
1:p:85:PHE:CD1	1:p:99:ASP:HB2	2.44	0.52
1:q:59:HIS:HE1	1:q:515:LYS:HZ1	1.56	0.52
1:q:94:ARG:HH22	1:s:429:ARG:HH12	1.56	0.52
1:q:244:PHE:HE2	1:q:246:PRO:HB3	1.63	0.52
1:r:528:TRP:HB3	1:s:246:PRO:HG3	1.85	0.52
1:u:547:PRO:HA	1:u:553:PHE:HB3	1.91	0.52
1:v:560:GLY:H	1:v:562:ALA:N	2.07	0.52
1:w:85:PHE:CD1	1:w:99:ASP:CB	2.92	0.52
1:x:129:LEU:HD11	1:x:136:ILE:HD13	1.91	0.52
1:x:173:LEU:HD22	1:x:255:LEU:HD12	1.91	0.52
1:y:246:PRO:HG3	1:6:528:TRP:HB3	1.86	0.52
1:y:360:TRP:HZ3	1:z:220:ASP:OD1	1.92	0.52
1:6:85:PHE:CD1	1:6:99:ASP:HB2	2.44	0.52
1:7:560:GLY:H	1:7:562:ALA:N	2.07	0.52
1:A:316:ARG:HH22	1:G:98:ASN:HD22	1.57	0.52
1:B:116:CYS:HB2	1:B:119:VAL:HG23	1.92	0.52
1:B:547:PRO:HA	1:B:553:PHE:HB3	1.91	0.52
1:C:59:HIS:HE1	1:C:515:LYS:HZ1	1.58	0.52
1:C:129:LEU:HD11	1:C:136:ILE:HD13	1.91	0.52
1:C:309:ASN:HB2	1:1:391:ARG:HH22	1.74	0.52
1:D:94:ARG:NH2	1:P:429:ARG:HH12	2.08	0.52
1:D:360:TRP:HZ3	1:N:220:ASP:OD1	1.92	0.52
1:E:85:PHE:CD1	1:E:99:ASP:HB2	2.44	0.52
1:E:560:GLY:H	1:E:562:ALA:N	2.07	0.52
1:F:391:ARG:HH22	1:Q:309:ASN:HB2	1.75	0.52
1:G:560:GLY:H	1:G:562:ALA:N	2.07	0.52
1:I:85:PHE:HD1	1:I:99:ASP:CB	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:85:PHE:CD1	1:I:99:ASP:HB2	2.44	0.52
1:I:129:LEU:HD11	1:I:136:ILE:HD13	1.91	0.52
1:J:85:PHE:HD1	1:J:99:ASP:CB	2.22	0.52
1:K:65:HIS:NE2	1:L:492:ASP:O	2.42	0.52
1:K:85:PHE:CD1	1:K:99:ASP:HB2	2.44	0.52
1:K:173:LEU:HD22	1:K:255:LEU:HD12	1.91	0.52
1:K:309:ASN:HB2	1:0:391:ARG:HH22	1.74	0.52
1:K:417:LEU:HB2	1:0:338:TRP:CD1	2.45	0.52
1:O:37:SER:CB	1:P:257:ARG:CG	2.72	0.52
1:O:129:LEU:HD11	1:O:136:ILE:HD13	1.91	0.52
1:O:560:GLY:H	1:O:562:ALA:N	2.07	0.52
1:Q:116:CYS:HB2	1:Q:119:VAL:HG23	1.92	0.52
1:Q:560:GLY:H	1:Q:562:ALA:N	2.07	0.52
1:R:244:PHE:HE2	1:R:246:PRO:HB3	1.63	0.52
1:S:360:TRP:HZ3	1:U:220:ASP:OD1	1.92	0.52
1:W:71:MET:HB2	1:W:75:ARG:NH2	2.23	0.52
1:W:85:PHE:CD1	1:W:99:ASP:CB	2.92	0.52
1:W:417:LEU:HB2	1:Y:338:TRP:CD1	2.44	0.52
1:X:65:HIS:NE2	1:Y:492:ASP:O	2.42	0.52
1:X:145:ILE:HD11	1:X:482:LEU:HD21	1.91	0.52
1:Z:528:TRP:CG	1:x:246:PRO:HG3	2.41	0.52
1:5:85:PHE:HD1	1:5:99:ASP:CB	2.22	0.52
1:a:85:PHE:HD1	1:a:99:ASP:CB	2.22	0.52
1:c:173:LEU:HD22	1:c:255:LEU:HD12	1.91	0.52
1:c:338:TRP:CD1	1:e:417:LEU:HB2	2.44	0.52
1:c:339:GLN:HA	1:e:413:HIS:HA	1.92	0.52
1:e:129:LEU:HD11	1:e:136:ILE:HD13	1.91	0.52
1:f:85:PHE:CD1	1:f:99:ASP:CB	2.91	0.52
1:g:417:LEU:HB2	1:h:338:TRP:CD1	2.44	0.52
1:h:145:ILE:HD11	1:h:482:LEU:HD21	1.91	0.52
1:k:129:LEU:HD11	1:k:136:ILE:HD13	1.91	0.52
1:k:339:GLN:HA	1:m:413:HIS:HA	1.91	0.52
1:l:413:HIS:HA	1:m:339:GLN:HA	1.92	0.52
1:l:417:LEU:HB2	1:m:338:TRP:CD1	2.44	0.52
1:n:560:GLY:H	1:n:562:ALA:N	2.07	0.52
1:q:94:ARG:NH2	1:s:429:ARG:HH12	2.08	0.52
1:q:360:TRP:HZ3	1:r:220:ASP:OD1	1.92	0.52
1:r:145:ILE:HD11	1:r:482:LEU:HD21	1.91	0.52
1:s:375:GLU:HG2	1:s:396:GLN:HE22	1.73	0.52
1:t:85:PHE:CD1	1:t:99:ASP:HB2	2.44	0.52
1:t:528:TRP:CG	1:u:246:PRO:HG3	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:560:GLY:H	1:t:562:ALA:N	2.07	0.52
1:u:116:CYS:HB2	1:u:119:VAL:HG23	1.91	0.52
1:u:429:ARG:HH12	1:v:94:ARG:NH2	2.07	0.52
1:w:71:MET:HB2	1:w:75:ARG:NH2	2.23	0.52
1:y:244:PHE:CE2	1:y:246:PRO:CB	2.76	0.52
1:z:286:ILE:HD11	1:z:327:SER:HB2	1.90	0.52
1:z:429:ARG:HH12	1:6:94:ARG:HH22	1.56	0.52
1:6:547:PRO:HA	1:6:553:PHE:HB3	1.91	0.52
1:A:116:CYS:HB2	1:A:119:VAL:HG23	1.92	0.52
1:A:547:PRO:HA	1:A:553:PHE:HB3	1.91	0.52
1:C:375:GLU:HG2	1:C:396:GLN:HE22	1.73	0.52
1:C:528:TRP:CG	1:1:246:PRO:HG3	2.41	0.52
1:D:339:GLN:HA	1:P:413:HIS:HA	1.92	0.52
1:E:417:LEU:HB2	1:Q:338:TRP:CD1	2.44	0.52
1:J:85:PHE:CD1	1:J:99:ASP:HB2	2.44	0.52
1:J:145:ILE:HD11	1:J:482:LEU:HD21	1.91	0.52
1:J:173:LEU:HD22	1:J:255:LEU:HD12	1.91	0.52
1:K:37:SER:HG	1:L:257:ARG:CG	1.97	0.52
1:K:316:ARG:HH22	1:0:98:ASN:HD22	1.58	0.52
1:K:391:ARG:HH22	1:7:309:ASN:HB2	1.74	0.52
1:M:85:PHE:HD1	1:M:99:ASP:CB	2.22	0.52
1:M:338:TRP:CD1	1:1:417:LEU:HB2	2.44	0.52
1:N:528:TRP:HB3	1:P:246:PRO:HG3	1.85	0.52
1:O:429:ARG:HH12	1:g:94:ARG:NH2	2.08	0.52
1:Q:85:PHE:HD1	1:Q:99:ASP:CB	2.22	0.52
1:R:560:GLY:H	1:R:562:ALA:N	2.07	0.52
1:T:94:ARG:HH22	1:f:429:ARG:HH12	1.55	0.52
1:V:116:CYS:HB2	1:V:119:VAL:HG23	1.91	0.52
1:V:129:LEU:HD11	1:V:136:ILE:HD13	1.91	0.52
1:X:98:ASN:HD22	1:4:316:ARG:HH22	1.58	0.52
1:Z:528:TRP:CB	1:x:246:PRO:CG	2.65	0.52
1:1:560:GLY:H	1:1:562:ALA:N	2.07	0.52
1:2:429:ARG:HH12	1:i:94:ARG:HH22	1.55	0.52
1:3:63:LEU:HD23	1:3:203:ALA:HB2	1.90	0.52
1:4:173:LEU:HD22	1:4:255:LEU:HD12	1.91	0.52
1:5:59:HIS:HE1	1:5:515:LYS:HZ1	1.58	0.52
1:a:547:PRO:HA	1:a:553:PHE:HB3	1.91	0.52
1:c:338:TRP:O	1:e:414:GLN:N	2.38	0.52
1:c:417:LEU:HB2	1:d:338:TRP:CD1	2.44	0.52
1:e:59:HIS:HE1	1:e:515:LYS:HZ1	1.58	0.52
1:i:145:ILE:HD11	1:i:482:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:63:LEU:HD23	1:j:203:ALA:HB2	1.90	0.52
1:n:116:CYS:HB2	1:n:119:VAL:HG23	1.92	0.52
1:o:429:ARG:HH12	1:p:94:ARG:NH2	2.08	0.52
1:p:156:THR:O	1:p:163:THR:OG1	2.25	0.52
1:p:560:GLY:H	1:p:562:ALA:N	2.07	0.52
1:q:528:TRP:HB3	1:r:246:PRO:HG3	1.85	0.52
1:t:129:LEU:HD11	1:t:136:ILE:HD13	1.91	0.52
1:y:560:GLY:H	1:y:562:ALA:N	2.07	0.52
1:z:85:PHE:HD1	1:z:99:ASP:CB	2.22	0.52
1:z:85:PHE:CD1	1:z:99:ASP:HB2	2.44	0.52
1:z:413:HIS:HA	1:6:339:GLN:HA	1.91	0.52
1:B:85:PHE:HD1	1:B:99:ASP:CB	2.22	0.52
1:B:309:ASN:HB2	1:J:391:ARG:HH22	1.75	0.52
1:C:145:ILE:HD11	1:C:482:LEU:HD21	1.91	0.52
1:D:129:LEU:HD11	1:D:136:ILE:HD13	1.91	0.52
1:D:413:HIS:HA	1:N:339:GLN:HA	1.91	0.52
1:D:547:PRO:HA	1:D:553:PHE:HB3	1.91	0.52
1:F:85:PHE:HD1	1:F:99:ASP:CB	2.22	0.52
1:J:417:LEU:HB2	1:L:338:TRP:CD1	2.44	0.52
1:J:560:GLY:H	1:J:562:ALA:N	2.08	0.52
1:L:65:HIS:NE2	1:1:492:ASP:O	2.41	0.52
1:M:560:GLY:H	1:M:562:ALA:N	2.07	0.52
1:N:116:CYS:HB2	1:N:119:VAL:HG23	1.92	0.52
1:N:145:ILE:HD11	1:N:482:LEU:HD21	1.91	0.52
1:N:560:GLY:H	1:N:562:ALA:N	2.07	0.52
1:P:375:GLU:HG2	1:P:396:GLN:HE22	1.73	0.52
1:S:85:PHE:CD1	1:S:99:ASP:HB2	2.44	0.52
1:S:413:HIS:HA	1:U:339:GLN:HA	1.91	0.52
1:T:116:CYS:HB2	1:T:119:VAL:HG23	1.92	0.52
1:T:145:ILE:HD11	1:T:482:LEU:HD21	1.91	0.52
1:U:116:CYS:HB2	1:U:119:VAL:HG23	1.91	0.52
1:U:547:PRO:HA	1:U:553:PHE:HB3	1.91	0.52
1:V:145:ILE:HD11	1:V:482:LEU:HD21	1.91	0.52
1:W:560:GLY:H	1:W:562:ALA:N	2.07	0.52
1:Y:101:TYR:CZ	1:Y:236:GLY:HA3	2.44	0.52
1:Z:66:ILE:HD12	1:Z:510:PHE:HE1	1.75	0.52
1:Z:492:ASP:O	1:0:65:HIS:NE2	2.42	0.52
1:0:145:ILE:HD11	1:0:482:LEU:HD21	1.91	0.52
1:0:309:ASN:HB2	1:7:391:ARG:HH22	1.74	0.52
1:1:85:PHE:CD1	1:1:99:ASP:HB2	2.44	0.52
1:1:129:LEU:HD11	1:1:136:ILE:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:161:GLN:N	1:1:161:GLN:OE1	2.43	0.52
1:5:85:PHE:CD1	1:5:99:ASP:HB2	2.44	0.52
1:5:145:ILE:HD11	1:5:482:LEU:HD21	1.91	0.52
1:5:173:LEU:HD22	1:5:255:LEU:HD12	1.91	0.52
1:5:246:PRO:CG	1:a:528:TRP:CB	2.65	0.52
1:5:263:GLU:HB2	1:5:264:SER:OG	2.10	0.52
1:5:560:GLY:H	1:5:562:ALA:N	2.07	0.52
1:a:246:PRO:HG3	1:b:528:TRP:CG	2.40	0.52
1:c:98:ASN:HD22	1:e:316:ARG:HH22	1.58	0.52
1:c:161:GLN:N	1:c:161:GLN:OE1	2.43	0.52
1:c:246:PRO:HG3	1:e:528:TRP:CG	2.41	0.52
1:c:560:GLY:H	1:c:562:ALA:N	2.07	0.52
1:d:116:CYS:HB2	1:d:119:VAL:HG23	1.91	0.52
1:d:528:TRP:CG	1:e:246:PRO:HG3	2.41	0.52
1:i:116:CYS:HB2	1:i:119:VAL:HG23	1.92	0.52
1:i:161:GLN:N	1:i:161:GLN:OE1	2.43	0.52
1:i:417:LEU:HB2	1:j:338:TRP:CD1	2.44	0.52
1:k:429:ARG:HH12	1:l:94:ARG:NH2	2.08	0.52
1:k:560:GLY:H	1:k:562:ALA:N	2.07	0.52
1:n:338:TRP:CD1	1:p:417:LEU:HB2	2.44	0.52
1:q:339:GLN:HA	1:s:413:HIS:HA	1.92	0.52
1:r:116:CYS:HB2	1:r:119:VAL:HG23	1.92	0.52
1:w:560:GLY:H	1:w:562:ALA:N	2.07	0.52
1:x:85:PHE:HD1	1:x:99:ASP:CB	2.22	0.52
1:y:244:PHE:HE2	1:y:246:PRO:HB3	1.63	0.52
1:z:360:TRP:HZ3	1:6:220:ASP:OD1	1.92	0.52
1:z:528:TRP:HB3	1:6:246:PRO:HG3	1.85	0.52
1:6:116:CYS:HB2	1:6:119:VAL:HG23	1.92	0.52
1:7:59:HIS:HE1	1:7:515:LYS:HZ1	1.57	0.52
1:7:145:ILE:HD11	1:7:482:LEU:HD21	1.91	0.52
1:C:173:LEU:HD22	1:C:255:LEU:HD12	1.91	0.52
1:C:414:GLN:N	1:1:338:TRP:O	2.38	0.52
1:D:161:GLN:N	1:D:161:GLN:OE1	2.43	0.52
1:D:391:ARG:HH22	1:P:309:ASN:HB2	1.74	0.52
1:E:94:ARG:NH2	1:F:429:ARG:HH12	2.08	0.52
1:E:117:TRP:HA	1:E:454:ILE:HD11	1.92	0.52
1:E:156:THR:O	1:E:163:THR:OG1	2.25	0.52
1:E:161:GLN:N	1:E:161:GLN:OE1	2.43	0.52
1:F:117:TRP:HA	1:F:454:ILE:HD11	1.92	0.52
1:F:246:PRO:HG3	1:Q:528:TRP:HB3	1.85	0.52
1:H:85:PHE:HD1	1:H:99:ASP:CB	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:85:PHE:CD1	1:H:99:ASP:CB	2.91	0.52
1:H:246:PRO:HG3	1:Y:528:TRP:CG	2.41	0.52
1:H:413:HIS:HA	1:W:339:GLN:HA	1.91	0.52
1:L:66:ILE:HD12	1:L:510:PHE:HE1	1.75	0.52
1:L:85:PHE:CD1	1:L:99:ASP:HB2	2.44	0.52
1:L:161:GLN:N	1:L:161:GLN:OE1	2.43	0.52
1:M:339:GLN:HA	1:1:413:HIS:HA	1.91	0.52
1:M:341:HIS:HE2	1:1:406:ASP:CG	2.16	0.52
1:M:547:PRO:HA	1:M:553:PHE:HB3	1.91	0.52
1:N:63:LEU:HD23	1:N:203:ALA:HB2	1.90	0.52
1:N:85:PHE:HD1	1:N:99:ASP:CB	2.22	0.52
1:O:339:GLN:HA	1:h:413:HIS:HA	1.92	0.52
1:R:116:CYS:HB2	1:R:119:VAL:HG23	1.92	0.52
1:S:85:PHE:HD1	1:S:99:ASP:CB	2.22	0.52
1:T:161:GLN:N	1:T:161:GLN:OE1	2.43	0.52
1:T:417:LEU:HB2	1:3:338:TRP:CD1	2.44	0.52
1:U:161:GLN:N	1:U:161:GLN:OE1	2.43	0.52
1:U:263:GLU:HB2	1:U:264:SER:OG	2.10	0.52
1:V:263:GLU:HB2	1:V:264:SER:OG	2.10	0.52
1:V:391:ARG:HH22	1:X:309:ASN:HB2	1.74	0.52
1:X:263:GLU:HB2	1:X:264:SER:OG	2.10	0.52
1:Y:66:ILE:HD12	1:Y:510:PHE:HE1	1.75	0.52
1:Z:101:TYR:CZ	1:Z:236:GLY:HA3	2.44	0.52
1:Z:338:TRP:CD1	1:w:417:LEU:HB2	2.44	0.52
1:Z:339:GLN:HA	1:w:413:HIS:HA	1.91	0.52
1:0:263:GLU:HB2	1:0:264:SER:OG	2.10	0.52
1:3:429:ARG:HH12	1:f:94:ARG:NH2	2.07	0.52
1:4:129:LEU:HD11	1:4:136:ILE:HD13	1.91	0.52
1:4:161:GLN:N	1:4:161:GLN:OE1	2.43	0.52
1:a:37:SER:CB	1:u:257:ARG:CG	2.72	0.52
1:b:66:ILE:HD12	1:b:510:PHE:HE1	1.75	0.52
1:b:161:GLN:N	1:b:161:GLN:OE1	2.43	0.52
1:c:85:PHE:CD1	1:c:99:ASP:HB2	2.44	0.52
1:c:129:LEU:HD11	1:c:136:ILE:HD13	1.91	0.52
1:c:429:ARG:HH12	1:d:94:ARG:NH2	2.08	0.52
1:d:85:PHE:HD1	1:d:99:ASP:CB	2.23	0.52
1:d:560:GLY:H	1:d:562:ALA:N	2.08	0.52
1:k:309:ASN:HB2	1:l:391:ARG:HH22	1.75	0.52
1:n:85:PHE:HD1	1:n:99:ASP:CB	2.22	0.52
1:o:85:PHE:HD1	1:o:99:ASP:CB	2.22	0.52
1:o:117:TRP:HA	1:o:454:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:117:TRP:HA	1:p:454:ILE:HD11	1.92	0.52
1:q:129:LEU:HD11	1:q:136:ILE:HD13	1.91	0.52
1:s:161:GLN:N	1:s:161:GLN:OE1	2.43	0.52
1:t:391:ARG:HH22	1:v:309:ASN:HB2	1.74	0.52
1:t:528:TRP:HB3	1:u:246:PRO:HG3	1.85	0.52
1:u:71:MET:HB2	1:u:75:ARG:NH2	2.23	0.52
1:u:145:ILE:HD11	1:u:482:LEU:HD21	1.91	0.52
1:u:413:HIS:HA	1:v:339:GLN:HA	1.91	0.52
1:w:339:GLN:HA	1:x:413:HIS:HA	1.91	0.52
1:x:145:ILE:HD11	1:x:482:LEU:HD21	1.91	0.52
1:6:66:ILE:HD12	1:6:510:PHE:HE1	1.75	0.52
1:6:263:GLU:HB2	1:6:264:SER:OG	2.10	0.52
1:7:263:GLU:HB2	1:7:264:SER:OG	2.10	0.52
1:A:66:ILE:HD12	1:A:510:PHE:HE1	1.75	0.52
1:A:71:MET:HB2	1:A:75:ARG:NH2	2.23	0.52
1:A:220:ASP:OD1	1:I:360:TRP:HZ3	1.92	0.52
1:A:528:TRP:CB	1:G:246:PRO:CG	2.62	0.52
1:B:94:ARG:NH2	1:L:429:ARG:HH12	2.08	0.52
1:C:85:PHE:HD1	1:C:99:ASP:CB	2.22	0.52
1:C:161:GLN:N	1:C:161:GLN:OE1	2.43	0.52
1:C:220:ASP:OD1	1:M:360:TRP:HZ3	1.92	0.52
1:C:316:ARG:HH22	1:1:98:ASN:HD22	1.58	0.52
1:D:116:CYS:HB2	1:D:119:VAL:HG23	1.92	0.52
1:E:145:ILE:HD11	1:E:482:LEU:HD21	1.91	0.52
1:J:244:PHE:HE2	1:J:246:PRO:HB3	1.63	0.52
1:J:263:GLU:HB2	1:J:264:SER:OG	2.10	0.52
1:J:413:HIS:HA	1:L:339:GLN:HA	1.91	0.52
1:K:129:LEU:HD11	1:K:136:ILE:HD13	1.91	0.52
1:K:161:GLN:N	1:K:161:GLN:OE1	2.43	0.52
1:M:94:ARG:NH2	1:1:429:ARG:HH12	2.08	0.52
1:M:116:CYS:HB2	1:M:119:VAL:HG23	1.92	0.52
1:M:145:ILE:HD11	1:M:482:LEU:HD21	1.91	0.52
1:O:37:SER:HG	1:P:257:ARG:CG	1.97	0.52
1:O:161:GLN:N	1:O:161:GLN:OE1	2.43	0.52
1:P:109:TRP:HZ3	1:P:485:LYS:HB3	1.67	0.52
1:Q:66:ILE:HD12	1:Q:510:PHE:HE1	1.75	0.52
1:R:406:ASP:CG	1:S:341:HIS:HE2	2.16	0.52
1:S:161:GLN:N	1:S:161:GLN:OE1	2.43	0.52
1:T:66:ILE:HD12	1:T:510:PHE:HE1	1.75	0.52
1:U:66:ILE:HD12	1:U:510:PHE:HE1	1.75	0.52
1:V:59:HIS:HE1	1:V:515:LYS:HZ1	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:85:PHE:HD1	1:V:99:ASP:CB	2.22	0.52
1:V:338:TRP:CD1	1:X:417:LEU:HB2	2.44	0.52
1:W:66:ILE:HD12	1:W:510:PHE:HE1	1.75	0.52
1:W:263:GLU:HB2	1:W:264:SER:OG	2.10	0.52
1:W:413:HIS:HA	1:Y:339:GLN:HA	1.91	0.52
1:W:429:ARG:HH12	1:Y:94:ARG:NH2	2.08	0.52
1:X:380:ASP:OD1	1:X:391:ARG:NH2	2.30	0.52
1:X:391:ARG:HH22	1:4:309:ASN:HB2	1.74	0.52
1:Z:98:ASN:HD22	1:w:316:ARG:HH22	1.58	0.52
1:Z:116:CYS:HB2	1:Z:119:VAL:HG23	1.91	0.52
1:Z:161:GLN:N	1:Z:161:GLN:OE1	2.43	0.52
1:0:380:ASP:OD1	1:0:391:ARG:NH2	2.30	0.52
1:0:417:LEU:HB2	1:7:338:TRP:CD1	2.44	0.52
1:2:94:ARG:NH2	1:j:429:ARG:HH12	2.07	0.52
1:3:116:CYS:HB2	1:3:119:VAL:HG23	1.92	0.52
1:3:161:GLN:N	1:3:161:GLN:OE1	2.43	0.52
1:4:37:SER:CB	1:b:257:ARG:CG	2.77	0.52
1:5:116:CYS:HB2	1:5:119:VAL:HG23	1.91	0.52
1:5:316:ARG:HH22	1:b:98:ASN:HD22	1.55	0.52
1:b:85:PHE:CD1	1:b:99:ASP:HB2	2.44	0.52
1:b:244:PHE:HE2	1:b:246:PRO:HB3	1.63	0.52
1:c:413:HIS:HA	1:d:339:GLN:HA	1.91	0.52
1:d:145:ILE:HD11	1:d:482:LEU:HD21	1.91	0.52
1:d:161:GLN:N	1:d:161:GLN:OE1	2.43	0.52
1:d:360:TRP:HZ3	1:e:220:ASP:OD1	1.92	0.52
1:d:413:HIS:HA	1:e:339:GLN:HA	1.91	0.52
1:d:417:LEU:HB2	1:e:338:TRP:CD1	2.44	0.52
1:d:547:PRO:HA	1:d:553:PHE:HB3	1.91	0.52
1:e:145:ILE:HD11	1:e:482:LEU:HD21	1.91	0.52
1:e:173:LEU:HD22	1:e:255:LEU:HD12	1.91	0.52
1:i:66:ILE:HD12	1:i:510:PHE:HE1	1.75	0.52
1:j:116:CYS:HB2	1:j:119:VAL:HG23	1.92	0.52
1:j:161:GLN:N	1:j:161:GLN:OE1	2.43	0.52
1:k:161:GLN:N	1:k:161:GLN:OE1	2.43	0.52
1:m:101:TYR:CZ	1:m:236:GLY:HA3	2.44	0.52
1:n:66:ILE:HD12	1:n:510:PHE:HE1	1.75	0.52
1:n:129:LEU:HD11	1:n:136:ILE:HD13	1.91	0.52
1:p:161:GLN:N	1:p:161:GLN:OE1	2.43	0.52
1:q:116:CYS:HB2	1:q:119:VAL:HG23	1.92	0.52
1:q:161:GLN:N	1:q:161:GLN:OE1	2.43	0.52
1:q:247:LEU:O	1:q:248:GLU:CB	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:547:PRO:HA	1:q:553:PHE:HB3	1.91	0.52
1:r:85:PHE:HD1	1:r:99:ASP:CB	2.22	0.52
1:r:413:HIS:HA	1:s:339:GLN:HA	1.91	0.52
1:r:560:GLY:H	1:r:562:ALA:N	2.07	0.52
1:v:37:SER:CB	1:w:257:ARG:CG	2.73	0.52
1:v:85:PHE:HD1	1:v:99:ASP:CB	2.22	0.52
1:v:263:GLU:HB2	1:v:264:SER:OG	2.10	0.52
1:x:85:PHE:CD1	1:x:99:ASP:CB	2.91	0.52
1:y:116:CYS:HB2	1:y:119:VAL:HG23	1.92	0.52
1:y:161:GLN:N	1:y:161:GLN:OE1	2.43	0.52
1:y:380:ASP:OD1	1:y:391:ARG:NH2	2.30	0.52
1:z:161:GLN:N	1:z:161:GLN:OE1	2.43	0.52
1:6:161:GLN:N	1:6:161:GLN:OE1	2.43	0.52
1:7:116:CYS:HB2	1:7:119:VAL:HG23	1.92	0.52
1:7:129:LEU:HD11	1:7:136:ILE:HD13	1.91	0.52
1:A:145:ILE:HD11	1:A:482:LEU:HD21	1.91	0.52
1:B:161:GLN:N	1:B:161:GLN:OE1	2.43	0.52
1:C:156:THR:O	1:C:163:THR:OG1	2.25	0.52
1:D:263:GLU:HB2	1:D:264:SER:OG	2.10	0.52
1:D:316:ARG:HH22	1:N:98:ASN:HD22	1.58	0.52
1:D:528:TRP:HB3	1:N:246:PRO:HG3	1.85	0.52
1:E:406:ASP:CG	1:Q:341:HIS:HE2	2.16	0.52
1:E:413:HIS:HA	1:Q:339:GLN:HA	1.91	0.52
1:G:263:GLU:HB2	1:G:264:SER:OG	2.10	0.52
1:G:309:ASN:HB2	1:I:391:ARG:HH22	1.74	0.52
1:I:117:TRP:HA	1:I:454:ILE:HD11	1.92	0.52
1:J:116:CYS:HB2	1:J:119:VAL:HG23	1.91	0.52
1:M:161:GLN:N	1:M:161:GLN:OE1	2.43	0.52
1:N:101:TYR:CZ	1:N:236:GLY:HA3	2.44	0.52
1:N:413:HIS:HA	1:P:339:GLN:HA	1.92	0.52
1:N:429:ARG:HH12	1:P:94:ARG:NH2	2.08	0.52
1:P:161:GLN:N	1:P:161:GLN:OE1	2.43	0.52
1:Q:37:SER:CB	1:S:257:ARG:CG	2.72	0.52
1:Q:117:TRP:HA	1:Q:454:ILE:HD11	1.92	0.52
1:Q:129:LEU:HD11	1:Q:136:ILE:HD13	1.91	0.52
1:R:161:GLN:N	1:R:161:GLN:OE1	2.43	0.52
1:R:244:PHE:CE2	1:R:246:PRO:CB	2.76	0.52
1:R:528:TRP:HB3	1:S:246:PRO:HG3	1.85	0.52
1:T:309:ASN:HB2	1:3:391:ARG:HH22	1.74	0.52
1:V:547:PRO:HA	1:V:553:PHE:HB3	1.91	0.52
1:W:316:ARG:HH22	1:Y:98:ASN:HD22	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:161:GLN:N	1:Y:161:GLN:OE1	2.43	0.52
1:Y:173:LEU:HD22	1:Y:255:LEU:HD12	1.91	0.52
1:Y:344:THR:N	1:Y:345:GLY:HA3	2.25	0.52
1:Z:173:LEU:HD22	1:Z:255:LEU:HD12	1.91	0.52
1:Z:344:THR:N	1:Z:345:GLY:HA3	2.25	0.52
1:1:244:PHE:O	1:1:246:PRO:CD	2.56	0.52
1:3:173:LEU:HD22	1:3:255:LEU:HD12	1.91	0.52
1:a:161:GLN:N	1:a:161:GLN:OE1	2.43	0.52
1:b:173:LEU:HD22	1:b:255:LEU:HD12	1.91	0.52
1:c:406:ASP:CG	1:d:341:HIS:HE2	2.16	0.52
1:e:161:GLN:N	1:e:161:GLN:OE1	2.43	0.52
1:g:37:SER:CA	1:m:257:ARG:HG2	2.32	0.52
1:h:101:TYR:CZ	1:h:236:GLY:HA3	2.44	0.52
1:h:116:CYS:HB2	1:h:119:VAL:HG23	1.92	0.52
1:i:309:ASN:HB2	1:j:391:ARG:HH22	1.74	0.52
1:k:225:ASP:HB2	1:k:226:ARG:CB	2.36	0.52
1:m:85:PHE:HD1	1:m:99:ASP:CB	2.22	0.52
1:m:116:CYS:HB2	1:m:119:VAL:HG23	1.92	0.52
1:n:37:SER:CB	1:z:257:ARG:CG	2.72	0.52
1:n:339:GLN:HA	1:p:413:HIS:HA	1.91	0.52
1:p:145:ILE:HD11	1:p:482:LEU:HD21	1.91	0.52
1:q:117:TRP:HA	1:q:454:ILE:HD11	1.92	0.52
1:q:263:GLU:HB2	1:q:264:SER:OG	2.10	0.52
1:q:316:ARG:HH22	1:r:98:ASN:HD22	1.58	0.52
1:q:391:ARG:HH22	1:s:309:ASN:HB2	1.74	0.52
1:q:413:HIS:HA	1:r:339:GLN:HA	1.92	0.52
1:r:63:LEU:HD23	1:r:203:ALA:HB2	1.90	0.52
1:s:85:PHE:HD1	1:s:99:ASP:CB	2.22	0.52
1:t:117:TRP:HA	1:t:454:ILE:HD11	1.92	0.52
1:u:66:ILE:HD12	1:u:510:PHE:HE1	1.75	0.52
1:u:101:TYR:CZ	1:u:236:GLY:HA3	2.44	0.52
1:u:309:ASN:HB2	1:v:391:ARG:HH22	1.74	0.52
1:v:37:SER:HG	1:w:257:ARG:CG	1.98	0.52
1:w:66:ILE:HD12	1:w:510:PHE:HE1	1.75	0.52
1:w:263:GLU:HB2	1:w:264:SER:OG	2.10	0.52
1:y:528:TRP:HB3	1:z:246:PRO:HG3	1.86	0.52
1:7:85:PHE:HD1	1:7:99:ASP:CB	2.22	0.52
1:7:344:THR:N	1:7:345:GLY:HA3	2.25	0.52
1:A:414:GLN:N	1:G:338:TRP:O	2.39	0.52
1:B:316:ARG:HH22	1:J:98:ASN:HD22	1.58	0.52
1:B:344:THR:N	1:B:345:GLY:HA3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:338:TRP:CD1	1:M:417:LEU:HB2	2.44	0.52
1:C:339:GLN:HA	1:M:413:HIS:HA	1.91	0.52
1:D:117:TRP:HA	1:D:454:ILE:HD11	1.92	0.52
1:F:98:ASN:HA	1:Q:323:SER:HG	1.71	0.52
1:G:85:PHE:HD1	1:G:99:ASP:CB	2.22	0.52
1:H:94:ARG:NH2	1:Y:429:ARG:HH12	2.08	0.52
1:H:145:ILE:HD11	1:H:482:LEU:HD21	1.91	0.52
1:K:98:ASN:HD22	1:7:316:ARG:HH22	1.58	0.52
1:N:109:TRP:HZ3	1:N:485:LYS:HB3	1.67	0.52
1:O:85:PHE:HD1	1:O:99:ASP:CB	2.22	0.52
1:P:85:PHE:HD1	1:P:99:ASP:CB	2.22	0.52
1:Q:161:GLN:N	1:Q:161:GLN:OE1	2.43	0.52
1:Q:281:GLN:HG2	1:Q:567:THR:HB	1.92	0.52
1:R:380:ASP:OD1	1:R:391:ARG:NH2	2.30	0.52
1:S:129:LEU:HD11	1:S:136:ILE:HD13	1.91	0.52
1:T:85:PHE:HD1	1:T:99:ASP:CB	2.22	0.52
1:W:161:GLN:N	1:W:161:GLN:OE1	2.43	0.52
1:Y:116:CYS:HB2	1:Y:119:VAL:HG23	1.92	0.52
1:Z:94:ARG:NH2	1:w:429:ARG:HH12	2.08	0.52
1:0:116:CYS:HB2	1:0:119:VAL:HG23	1.91	0.52
1:5:244:PHE:HE2	1:5:246:PRO:HB3	1.63	0.52
1:e:85:PHE:HD1	1:e:99:ASP:CB	2.22	0.52
1:h:263:GLU:HB2	1:h:264:SER:OG	2.10	0.52
1:i:85:PHE:HD1	1:i:99:ASP:CB	2.23	0.52
1:k:85:PHE:HD1	1:k:99:ASP:CB	2.22	0.52
1:k:316:ARG:HH22	1:l:98:ASN:HD22	1.58	0.52
1:m:263:GLU:HB2	1:m:264:SER:OG	2.10	0.52
1:n:281:GLN:HG2	1:n:567:THR:HB	1.92	0.52
1:o:257:ARG:CG	1:y:37:SER:CB	2.72	0.52
1:o:380:ASP:OD1	1:o:391:ARG:NH2	2.30	0.52
1:q:309:ASN:HB2	1:r:391:ARG:HH22	1.74	0.52
1:r:429:ARG:HH12	1:s:94:ARG:NH2	2.08	0.52
1:t:161:GLN:N	1:t:161:GLN:OE1	2.43	0.52
1:u:380:ASP:OD1	1:u:391:ARG:NH2	2.30	0.52
1:w:161:GLN:N	1:w:161:GLN:OE1	2.43	0.52
1:x:263:GLU:HB2	1:x:264:SER:OG	2.10	0.52
1:y:344:THR:N	1:y:345:GLY:HA3	2.25	0.52
1:z:129:LEU:HD11	1:z:136:ILE:HD13	1.91	0.52
1:7:547:PRO:HA	1:7:553:PHE:HB3	1.91	0.52
1:A:101:TYR:CZ	1:A:236:GLY:HA3	2.44	0.51
1:A:161:GLN:N	1:A:161:GLN:OE1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:ALA:CB	1:I:439:TYR:CE1	2.86	0.51
1:B:98:ASN:HD22	1:L:316:ARG:HH22	1.58	0.51
1:B:360:TRP:HZ3	1:J:220:ASP:OD1	1.92	0.51
1:D:309:ASN:HB2	1:N:391:ARG:HH22	1.74	0.51
1:D:417:LEU:HB2	1:N:338:TRP:CD1	2.45	0.51
1:E:309:ASN:HB2	1:Q:391:ARG:HH22	1.75	0.51
1:F:257:ARG:CG	1:R:37:SER:CB	2.72	0.51
1:G:37:SER:CA	1:W:257:ARG:HG2	2.32	0.51
1:H:117:TRP:HA	1:H:454:ILE:HD11	1.92	0.51
1:H:263:GLU:HB2	1:H:264:SER:OG	2.10	0.51
1:I:161:GLN:N	1:I:161:GLN:OE1	2.43	0.51
1:J:129:LEU:HD11	1:J:136:ILE:HD13	1.91	0.51
1:K:492:ASP:O	1:6:65:HIS:NE2	2.41	0.51
1:K:547:PRO:HA	1:K:553:PHE:HB3	1.91	0.51
1:N:173:LEU:HD22	1:N:255:LEU:HD12	1.91	0.51
1:N:309:ASN:HB2	1:P:391:ARG:HH22	1.74	0.51
1:O:309:ASN:HB2	1:g:391:ARG:HH22	1.75	0.51
1:O:316:ARG:HH22	1:g:98:ASN:HD22	1.58	0.51
1:O:413:HIS:HA	1:g:339:GLN:HA	1.91	0.51
1:P:560:GLY:H	1:P:562:ALA:N	2.07	0.51
1:R:338:TRP:O	1:U:414:GLN:N	2.37	0.51
1:S:153:VAL:HB	1:S:505:VAL:HG23	1.93	0.51
1:S:429:ARG:HH12	1:U:94:ARG:NH2	2.08	0.51
1:S:528:TRP:HB3	1:U:246:PRO:HG3	1.85	0.51
1:U:65:HIS:NE2	1:4:492:ASP:O	2.41	0.51
1:V:316:ARG:HH22	1:4:98:ASN:HD22	1.58	0.51
1:X:116:CYS:HB2	1:X:119:VAL:HG23	1.92	0.51
1:X:281:GLN:HG2	1:X:567:THR:HB	1.93	0.51
1:X:339:GLN:HA	1:4:413:HIS:HA	1.91	0.51
1:X:344:THR:N	1:X:345:GLY:HA3	2.25	0.51
1:Z:263:GLU:HB2	1:Z:264:SER:OG	2.10	0.51
1:Z:429:ARG:HH12	1:x:94:ARG:NH2	2.08	0.51
1:0:85:PHE:HD1	1:0:99:ASP:CB	2.22	0.51
1:0:244:PHE:O	1:0:246:PRO:CD	2.56	0.51
1:0:281:GLN:HG2	1:0:567:THR:HB	1.93	0.51
1:0:344:THR:N	1:0:345:GLY:HA3	2.25	0.51
1:1:116:CYS:HB2	1:1:119:VAL:HG23	1.92	0.51
1:2:161:GLN:N	1:2:161:GLN:OE1	2.43	0.51
1:2:413:HIS:HA	1:i:339:GLN:HA	1.91	0.51
1:2:492:ASP:O	1:m:65:HIS:NE2	2.42	0.51
1:3:406:ASP:CG	1:f:341:HIS:HE2	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:528:TRP:CB	1:f:246:PRO:CG	2.65	0.51
1:5:66:ILE:HD12	1:5:510:PHE:HE1	1.75	0.51
1:a:344:THR:N	1:a:345:GLY:HA3	2.25	0.51
1:c:244:PHE:O	1:c:246:PRO:CD	2.56	0.51
1:e:156:THR:O	1:e:163:THR:OG1	2.25	0.51
1:h:257:ARG:HG2	1:l:37:SER:CA	2.32	0.51
1:h:281:GLN:HG2	1:h:567:THR:HB	1.93	0.51
1:i:413:HIS:HA	1:j:339:GLN:HA	1.91	0.51
1:l:161:GLN:N	1:l:161:GLN:OE1	2.43	0.51
1:l:263:GLU:HB2	1:l:264:SER:OG	2.10	0.51
1:n:161:GLN:N	1:n:161:GLN:OE1	2.43	0.51
1:n:528:TRP:HB3	1:o:246:PRO:HG3	1.86	0.51
1:t:429:ARG:HH12	1:u:94:ARG:NH2	2.07	0.51
1:u:161:GLN:N	1:u:161:GLN:OE1	2.43	0.51
1:v:161:GLN:N	1:v:161:GLN:OE1	2.43	0.51
1:w:246:PRO:HG3	1:x:528:TRP:CG	2.41	0.51
1:y:98:ASN:HD22	1:6:316:ARG:HH22	1.58	0.51
1:y:406:ASP:CG	1:z:341:HIS:HE2	2.16	0.51
1:z:153:VAL:HB	1:z:505:VAL:HG23	1.93	0.51
1:A:85:PHE:HD1	1:A:99:ASP:CB	2.22	0.51
1:E:66:ILE:HD12	1:E:510:PHE:HE1	1.75	0.51
1:E:85:PHE:HD1	1:E:99:ASP:CB	2.22	0.51
1:E:98:ASN:HD22	1:F:316:ARG:HH22	1.58	0.51
1:G:37:SER:CB	1:W:257:ARG:CG	2.73	0.51
1:G:153:VAL:HB	1:G:505:VAL:HG23	1.93	0.51
1:G:161:GLN:N	1:G:161:GLN:OE1	2.43	0.51
1:H:116:CYS:HB2	1:H:119:VAL:HG23	1.92	0.51
1:I:116:CYS:HB2	1:I:119:VAL:HG23	1.92	0.51
1:J:66:ILE:HD12	1:J:510:PHE:HE1	1.75	0.51
1:J:161:GLN:N	1:J:161:GLN:OE1	2.43	0.51
1:K:263:GLU:HB2	1:K:264:SER:OG	2.10	0.51
1:L:173:LEU:HD22	1:L:255:LEU:HD12	1.91	0.51
1:M:98:ASN:HD22	1:1:316:ARG:HH22	1.58	0.51
1:N:66:ILE:HD12	1:N:510:PHE:HE1	1.75	0.51
1:O:145:ILE:HD11	1:O:482:LEU:HD21	1.91	0.51
1:O:225:ASP:HB2	1:O:226:ARG:CB	2.36	0.51
1:Q:153:VAL:HB	1:Q:505:VAL:HG23	1.93	0.51
1:R:316:ARG:HH22	1:S:98:ASN:HD22	1.58	0.51
1:R:341:HIS:HE2	1:U:406:ASP:CG	2.17	0.51
1:R:344:THR:N	1:R:345:GLY:HA3	2.26	0.51
1:R:429:ARG:HH12	1:S:94:ARG:NH2	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:316:ARG:HH22	1:3:98:ASN:HD22	1.58	0.51
1:T:339:GLN:HA	1:f:413:HIS:HA	1.91	0.51
1:U:244:PHE:HE2	1:U:246:PRO:HB3	1.63	0.51
1:W:153:VAL:HB	1:W:505:VAL:HG23	1.93	0.51
1:X:94:ARG:NH2	1:4:429:ARG:HH12	2.08	0.51
1:X:244:PHE:O	1:X:246:PRO:CD	2.56	0.51
1:Z:85:PHE:HD1	1:Z:99:ASP:CB	2.22	0.51
1:Z:156:THR:O	1:Z:163:THR:OG1	2.25	0.51
1:Z:338:TRP:O	1:w:414:GLN:N	2.38	0.51
1:2:98:ASN:HD22	1:j:316:ARG:HH22	1.58	0.51
1:5:129:LEU:HD11	1:5:136:ILE:HD13	1.91	0.51
1:5:161:GLN:N	1:5:161:GLN:OE1	2.43	0.51
1:b:116:CYS:HB2	1:b:119:VAL:HG23	1.91	0.51
1:c:116:CYS:HB2	1:c:119:VAL:HG23	1.92	0.51
1:c:316:ARG:HH22	1:d:98:ASN:HD22	1.58	0.51
1:d:66:ILE:HD12	1:d:510:PHE:HE1	1.75	0.51
1:d:263:GLU:HB2	1:d:264:SER:OG	2.10	0.51
1:f:116:CYS:HB2	1:f:119:VAL:HG23	1.92	0.51
1:i:316:ARG:HH22	1:j:98:ASN:HD22	1.58	0.51
1:i:323:SER:HG	1:j:98:ASN:HA	1.72	0.51
1:l:156:THR:O	1:l:163:THR:OG1	2.25	0.51
1:n:117:TRP:HA	1:n:454:ILE:HD11	1.92	0.51
1:n:153:VAL:HB	1:n:505:VAL:HG23	1.93	0.51
1:n:341:HIS:HE2	1:p:406:ASP:CG	2.17	0.51
1:n:391:ARG:HH22	1:p:309:ASN:HB2	1.75	0.51
1:q:173:LEU:HD22	1:q:255:LEU:HD12	1.91	0.51
1:q:417:LEU:HB2	1:r:338:TRP:CD1	2.45	0.51
1:q:560:GLY:H	1:q:562:ALA:N	2.08	0.51
1:r:101:TYR:CZ	1:r:236:GLY:HA3	2.44	0.51
1:r:173:LEU:HD22	1:r:255:LEU:HD12	1.91	0.51
1:s:109:TRP:HZ3	1:s:485:LYS:HB3	1.67	0.51
1:s:244:PHE:O	1:s:246:PRO:CD	2.56	0.51
1:s:560:GLY:H	1:s:562:ALA:N	2.07	0.51
1:u:85:PHE:HD1	1:u:99:ASP:CB	2.22	0.51
1:v:153:VAL:HB	1:v:505:VAL:HG23	1.93	0.51
1:w:153:VAL:HB	1:w:505:VAL:HG23	1.93	0.51
1:x:116:CYS:HB2	1:x:119:VAL:HG23	1.92	0.51
1:x:117:TRP:HA	1:x:454:ILE:HD11	1.92	0.51
1:y:341:HIS:HE2	1:6:406:ASP:CG	2.16	0.51
1:z:429:ARG:HH12	1:6:94:ARG:NH2	2.08	0.51
1:A:344:THR:N	1:A:345:GLY:HA3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:THR:O	1:B:163:THR:OG1	2.25	0.51
1:C:98:ASN:HD22	1:M:316:ARG:HH22	1.58	0.51
1:D:85:PHE:HD1	1:D:99:ASP:CB	2.22	0.51
1:D:173:LEU:HD22	1:D:255:LEU:HD12	1.91	0.51
1:D:341:HIS:HE2	1:P:406:ASP:CG	2.16	0.51
1:G:344:THR:N	1:G:345:GLY:HA3	2.25	0.51
1:G:406:ASP:CG	1:I:341:HIS:HE2	2.16	0.51
1:H:344:THR:N	1:H:345:GLY:HA3	2.25	0.51
1:H:560:GLY:H	1:H:562:ALA:N	2.07	0.51
1:K:94:ARG:NH2	1:7:429:ARG:HH12	2.08	0.51
1:K:101:TYR:CZ	1:K:236:GLY:HA3	2.44	0.51
1:K:281:GLN:HG2	1:K:567:THR:HB	1.93	0.51
1:K:413:HIS:HA	1:0:339:GLN:HA	1.92	0.51
1:L:116:CYS:HB2	1:L:119:VAL:HG23	1.91	0.51
1:M:117:TRP:HA	1:M:454:ILE:HD11	1.92	0.51
1:M:344:THR:N	1:M:345:GLY:HA3	2.25	0.51
1:O:547:PRO:HA	1:O:553:PHE:HB3	1.91	0.51
1:R:66:ILE:HD12	1:R:510:PHE:HE1	1.75	0.51
1:R:98:ASN:HD22	1:U:316:ARG:HH22	1.58	0.51
1:S:263:GLU:HB2	1:S:264:SER:OG	2.10	0.51
1:T:323:SER:HG	1:3:98:ASN:HA	1.72	0.51
1:T:413:HIS:HA	1:3:339:GLN:HA	1.92	0.51
1:U:117:TRP:HA	1:U:454:ILE:HD11	1.92	0.51
1:W:117:TRP:HA	1:W:454:ILE:HD11	1.92	0.51
1:X:85:PHE:HD1	1:X:99:ASP:CB	2.22	0.51
1:Y:156:THR:O	1:Y:163:THR:OG1	2.25	0.51
1:Y:263:GLU:HB2	1:Y:264:SER:OG	2.10	0.51
1:2:116:CYS:HB2	1:2:119:VAL:HG23	1.92	0.51
1:2:429:ARG:HH12	1:i:94:ARG:NH2	2.07	0.51
1:3:281:GLN:HG2	1:3:567:THR:HB	1.93	0.51
1:3:316:ARG:HH22	1:f:98:ASN:HD22	1.58	0.51
1:4:101:TYR:CZ	1:4:236:GLY:HA3	2.44	0.51
1:4:263:GLU:HB2	1:4:264:SER:OG	2.10	0.51
1:4:281:GLN:HG2	1:4:567:THR:HB	1.93	0.51
1:4:547:PRO:HA	1:4:553:PHE:HB3	1.91	0.51
1:5:391:ARG:HH22	1:a:309:ASN:HB2	1.76	0.51
1:b:124:ALA:HB2	1:e:529:ASN:O	2.10	0.51
1:d:344:THR:N	1:d:345:GLY:HA3	2.25	0.51
1:e:109:TRP:HZ3	1:e:485:LYS:HB3	1.67	0.51
1:f:161:GLN:N	1:f:161:GLN:OE1	2.43	0.51
1:g:161:GLN:N	1:g:161:GLN:OE1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:263:GLU:HB2	1:g:264:SER:OG	2.10	0.51
1:g:560:GLY:H	1:g:562:ALA:N	2.07	0.51
1:h:85:PHE:HD1	1:h:99:ASP:CB	2.22	0.51
1:j:173:LEU:HD22	1:j:255:LEU:HD12	1.91	0.51
1:j:281:GLN:HG2	1:j:567:THR:HB	1.93	0.51
1:j:344:THR:N	1:j:345:GLY:HA3	2.25	0.51
1:k:413:HIS:HA	1:l:339:GLN:HA	1.91	0.51
1:l:429:ARG:HH12	1:m:94:ARG:NH2	2.08	0.51
1:m:244:PHE:O	1:m:246:PRO:CD	2.56	0.51
1:m:281:GLN:HG2	1:m:567:THR:HB	1.93	0.51
1:o:116:CYS:HB2	1:o:119:VAL:HG23	1.91	0.51
1:o:316:ARG:HH22	1:p:98:ASN:HD22	1.58	0.51
1:o:332:GLY:HA2	1:o:353:GLN:NE2	2.26	0.51
1:p:66:ILE:HD12	1:p:510:PHE:HE1	1.75	0.51
1:q:341:HIS:HE2	1:s:406:ASP:CG	2.16	0.51
1:r:66:ILE:HD12	1:r:510:PHE:HE1	1.75	0.51
1:r:263:GLU:HB2	1:r:264:SER:OG	2.10	0.51
1:t:116:CYS:HB2	1:t:119:VAL:HG23	1.92	0.51
1:t:417:LEU:HB2	1:u:338:TRP:CD1	2.44	0.51
1:u:263:GLU:HB2	1:u:264:SER:OG	2.10	0.51
1:u:344:THR:N	1:u:345:GLY:HA3	2.25	0.51
1:v:344:THR:N	1:v:345:GLY:HA3	2.25	0.51
1:w:117:TRP:HA	1:w:454:ILE:HD11	1.92	0.51
1:x:560:GLY:H	1:x:562:ALA:N	2.07	0.51
1:z:263:GLU:HB2	1:z:264:SER:OG	2.10	0.51
1:6:117:TRP:HA	1:6:454:ILE:HD11	1.92	0.51
1:A:263:GLU:HB2	1:A:264:SER:OG	2.10	0.51
1:A:338:TRP:CD1	1:I:417:LEU:HB2	2.44	0.51
1:B:263:GLU:HB2	1:B:264:SER:OG	2.10	0.51
1:B:339:GLN:HA	1:L:413:HIS:HA	1.92	0.51
1:D:66:ILE:HD12	1:D:510:PHE:HE1	1.75	0.51
1:D:560:GLY:H	1:D:562:ALA:N	2.07	0.51
1:F:116:CYS:HB2	1:F:119:VAL:HG23	1.92	0.51
1:F:281:GLN:HG2	1:F:567:THR:HB	1.93	0.51
1:F:380:ASP:OD1	1:F:391:ARG:NH2	2.30	0.51
1:I:547:PRO:HA	1:I:553:PHE:HB3	1.91	0.51
1:J:109:TRP:HZ3	1:J:485:LYS:HB3	1.67	0.51
1:K:429:ARG:HH12	1:0:94:ARG:NH2	2.08	0.51
1:M:66:ILE:HD12	1:M:510:PHE:HE1	1.75	0.51
1:M:263:GLU:HB2	1:M:264:SER:OG	2.10	0.51
1:N:263:GLU:HB2	1:N:264:SER:OG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:116:CYS:HB2	1:O:119:VAL:HG23	1.92	0.51
1:P:244:PHE:O	1:P:246:PRO:CD	2.56	0.51
1:Q:173:LEU:HD22	1:Q:255:LEU:HD12	1.91	0.51
1:R:309:ASN:HB2	1:S:391:ARG:HH22	1.74	0.51
1:T:560:GLY:H	1:T:562:ALA:N	2.07	0.51
1:U:85:PHE:HD1	1:U:99:ASP:CB	2.22	0.51
1:X:161:GLN:N	1:X:161:GLN:OE1	2.43	0.51
1:Z:391:ARG:HH22	1:w:309:ASN:HB2	1.75	0.51
1:0:173:LEU:HD22	1:0:255:LEU:HD12	1.91	0.51
1:1:66:ILE:HD12	1:1:510:PHE:HE1	1.75	0.51
1:2:173:LEU:HD22	1:2:255:LEU:HD12	1.91	0.51
1:2:263:GLU:HB2	1:2:264:SER:OG	2.10	0.51
1:2:341:HIS:HE2	1:j:406:ASP:CG	2.16	0.51
1:3:344:THR:N	1:3:345:GLY:HA3	2.25	0.51
1:3:413:HIS:HA	1:f:339:GLN:HA	1.91	0.51
1:3:439:TYR:CE1	1:f:469:ALA:CB	2.86	0.51
1:4:380:ASP:OD1	1:4:391:ARG:NH2	2.30	0.51
1:5:98:ASN:HD22	1:a:316:ARG:HH22	1.59	0.51
1:5:220:ASP:OD1	1:a:360:TRP:HZ3	1.93	0.51
1:a:263:GLU:HB2	1:a:264:SER:OG	2.10	0.51
1:c:59:HIS:HE1	1:c:515:LYS:NZ	2.09	0.51
1:e:263:GLU:HB2	1:e:264:SER:OG	2.10	0.51
1:f:173:LEU:HD22	1:f:255:LEU:HD12	1.91	0.51
1:g:66:ILE:HD12	1:g:510:PHE:HE1	1.75	0.51
1:i:560:GLY:H	1:i:562:ALA:N	2.07	0.51
1:k:100:SER:O	1:k:100:SER:OG	2.23	0.51
1:k:145:ILE:HD11	1:k:482:LEU:HD21	1.91	0.51
1:k:547:PRO:HA	1:k:553:PHE:HB3	1.91	0.51
1:l:560:GLY:H	1:l:562:ALA:N	2.07	0.51
1:m:161:GLN:N	1:m:161:GLN:OE1	2.43	0.51
1:m:560:GLY:H	1:m:562:ALA:N	2.07	0.51
1:n:173:LEU:HD22	1:n:255:LEU:HD12	1.91	0.51
1:p:85:PHE:HD1	1:p:99:ASP:CB	2.22	0.51
1:q:85:PHE:HD1	1:q:99:ASP:CB	2.22	0.51
1:q:429:ARG:HH12	1:r:94:ARG:NH2	2.08	0.51
1:r:309:ASN:HB2	1:s:391:ARG:HH22	1.74	0.51
1:t:263:GLU:HB2	1:t:264:SER:OG	2.10	0.51
1:t:339:GLN:HA	1:v:413:HIS:HA	1.91	0.51
1:t:439:TYR:CE1	1:u:469:ALA:CB	2.87	0.51
1:x:66:ILE:HD12	1:x:510:PHE:HE1	1.75	0.51
1:x:344:THR:N	1:x:345:GLY:HA3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:338:TRP:O	1:6:414:GLN:N	2.38	0.51
1:y:429:ARG:HH12	1:z:94:ARG:NH2	2.08	0.51
1:z:309:ASN:HB2	1:6:391:ARG:HH22	1.75	0.51
1:6:101:TYR:CZ	1:6:236:GLY:HA3	2.44	0.51
1:6:244:PHE:HE2	1:6:246:PRO:HB3	1.63	0.51
1:A:339:GLN:HA	1:I:413:HIS:HA	1.91	0.51
1:B:145:ILE:HD11	1:B:482:LEU:HD21	1.91	0.51
1:B:341:HIS:HE2	1:L:406:ASP:CG	2.17	0.51
1:D:153:VAL:HB	1:D:505:VAL:HG23	1.93	0.51
1:F:332:GLY:HA2	1:F:353:GLN:NE2	2.26	0.51
1:H:66:ILE:HD12	1:H:510:PHE:HE1	1.75	0.51
1:I:65:HIS:NE2	1:J:492:ASP:O	2.41	0.51
1:J:547:PRO:HA	1:J:553:PHE:HB3	1.91	0.51
1:K:59:HIS:HE1	1:K:515:LYS:NZ	2.09	0.51
1:L:344:THR:N	1:L:345:GLY:HA3	2.25	0.51
1:N:244:PHE:HE2	1:N:246:PRO:HB3	1.63	0.51
1:N:316:ARG:HH22	1:P:98:ASN:HD22	1.58	0.51
1:O:244:PHE:CE2	1:O:246:PRO:CB	2.76	0.51
1:P:59:HIS:HE1	1:P:515:LYS:NZ	2.09	0.51
1:P:129:LEU:HD11	1:P:136:ILE:HD13	1.91	0.51
1:R:492:ASP:O	1:V:65:HIS:NE2	2.42	0.51
1:S:117:TRP:HA	1:S:454:ILE:HD11	1.92	0.51
1:S:309:ASN:HB2	1:U:391:ARG:HH22	1.75	0.51
1:S:417:LEU:HB2	1:U:338:TRP:CD1	2.44	0.51
1:T:94:ARG:NH2	1:f:429:ARG:HH12	2.07	0.51
1:T:173:LEU:HD22	1:T:255:LEU:HD12	1.91	0.51
1:U:59:HIS:HE1	1:U:515:LYS:NZ	2.09	0.51
1:U:101:TYR:CZ	1:U:236:GLY:HA3	2.44	0.51
1:V:429:ARG:HH12	1:4:94:ARG:NH2	2.08	0.51
1:W:309:ASN:HB2	1:Y:391:ARG:HH22	1.75	0.51
1:W:344:THR:N	1:W:345:GLY:HA3	2.25	0.51
1:W:414:GLN:N	1:Y:338:TRP:O	2.37	0.51
1:W:439:TYR:CE1	1:Y:469:ALA:CB	2.86	0.51
1:X:66:ILE:HD12	1:X:510:PHE:HE1	1.75	0.51
1:1:59:HIS:HE1	1:1:515:LYS:NZ	2.09	0.51
1:3:547:PRO:HA	1:3:553:PHE:HB3	1.91	0.51
1:4:59:HIS:HE1	1:4:515:LYS:NZ	2.09	0.51
1:4:85:PHE:HD1	1:4:99:ASP:CB	2.22	0.51
1:5:228:ASN:OD1	1:a:429:ARG:NH2	2.43	0.51
1:5:246:PRO:HG3	1:a:528:TRP:HB3	1.85	0.51
1:5:547:PRO:HA	1:5:553:PHE:HB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:156:THR:O	1:a:163:THR:OG1	2.25	0.51
1:c:66:ILE:HD12	1:c:510:PHE:HE1	1.75	0.51
1:d:117:TRP:HA	1:d:454:ILE:HD11	1.92	0.51
1:f:263:GLU:HB2	1:f:264:SER:OG	2.10	0.51
1:g:364:VAL:HG21	1:g:539:ARG:HD3	1.93	0.51
1:h:66:ILE:HD12	1:h:510:PHE:HE1	1.75	0.51
1:h:161:GLN:N	1:h:161:GLN:OE1	2.43	0.51
1:i:173:LEU:HD22	1:i:255:LEU:HD12	1.91	0.51
1:k:116:CYS:HB2	1:k:119:VAL:HG23	1.92	0.51
1:l:364:VAL:HG21	1:l:539:ARG:HD3	1.93	0.51
1:n:37:SER:HG	1:z:257:ARG:N	2.08	0.51
1:q:66:ILE:HD12	1:q:510:PHE:HE1	1.75	0.51
1:q:153:VAL:HB	1:q:505:VAL:HG23	1.93	0.51
1:r:109:TRP:HZ3	1:r:485:LYS:HB3	1.67	0.51
1:r:316:ARG:HH22	1:s:98:ASN:HD22	1.58	0.51
1:s:129:LEU:HD11	1:s:136:ILE:HD13	1.91	0.51
1:s:364:VAL:HG21	1:s:539:ARG:HD3	1.93	0.51
1:t:341:HIS:HE2	1:v:406:ASP:CG	2.16	0.51
1:t:547:PRO:HA	1:t:553:PHE:HB3	1.91	0.51
1:w:116:CYS:HB2	1:w:119:VAL:HG23	1.92	0.51
1:w:281:GLN:HG2	1:w:567:THR:HB	1.93	0.51
1:w:338:TRP:CD1	1:x:417:LEU:HB2	2.44	0.51
1:y:66:ILE:HD12	1:y:510:PHE:HE1	1.75	0.51
1:y:281:GLN:HG2	1:y:567:THR:HB	1.92	0.51
1:y:309:ASN:HB2	1:z:391:ARG:HH22	1.74	0.51
1:y:316:ARG:HH22	1:z:98:ASN:HD22	1.58	0.51
1:y:492:ASP:O	1:7:65:HIS:NE2	2.42	0.51
1:z:117:TRP:HA	1:z:454:ILE:HD11	1.92	0.51
1:z:417:LEU:HB2	1:6:338:TRP:CD1	2.44	0.51
1:6:59:HIS:HE1	1:6:515:LYS:NZ	2.09	0.51
1:6:85:PHE:HD1	1:6:99:ASP:CB	2.22	0.51
1:A:246:PRO:HG3	1:I:528:TRP:CG	2.42	0.51
1:B:391:ARG:HH22	1:L:309:ASN:HB2	1.74	0.51
1:B:417:LEU:HB2	1:J:338:TRP:CD1	2.44	0.51
1:B:528:TRP:CB	1:J:246:PRO:CG	2.65	0.51
1:B:528:TRP:HB3	1:J:246:PRO:HG3	1.85	0.51
1:C:109:TRP:HZ3	1:C:485:LYS:HB3	1.67	0.51
1:C:263:GLU:HB2	1:C:264:SER:OG	2.10	0.51
1:D:429:ARG:HH12	1:N:94:ARG:NH2	2.08	0.51
1:F:153:VAL:HB	1:F:505:VAL:HG23	1.93	0.51
1:G:413:HIS:HA	1:I:339:GLN:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:429:ARG:HH12	1:W:94:ARG:NH2	2.08	0.51
1:I:263:GLU:HB2	1:I:264:SER:OG	2.10	0.51
1:J:281:GLN:HG2	1:J:567:THR:HB	1.93	0.51
1:K:406:ASP:CG	1:0:341:HIS:HE2	2.16	0.51
1:L:263:GLU:HB2	1:L:264:SER:OG	2.10	0.51
1:M:37:SER:HG	1:N:257:ARG:CG	1.98	0.51
1:M:267:TYR:OH	1:M:477:GLY:O	2.29	0.51
1:N:161:GLN:N	1:N:161:GLN:OE1	2.43	0.51
1:N:406:ASP:CG	1:P:341:HIS:HE2	2.16	0.51
1:O:173:LEU:HD22	1:O:255:LEU:HD12	1.91	0.51
1:Q:59:HIS:HE1	1:Q:515:LYS:NZ	2.09	0.51
1:R:145:ILE:HD11	1:R:482:LEU:HD21	1.91	0.51
1:R:281:GLN:HG2	1:R:567:THR:HB	1.92	0.51
1:V:246:PRO:CG	1:X:528:TRP:CB	2.65	0.51
1:V:281:GLN:HG2	1:V:567:THR:HB	1.93	0.51
1:W:116:CYS:HB2	1:W:119:VAL:HG23	1.92	0.51
1:W:281:GLN:HG2	1:W:567:THR:HB	1.93	0.51
1:X:173:LEU:HD22	1:X:255:LEU:HD12	1.91	0.51
1:Y:547:PRO:HA	1:Y:553:PHE:HB3	1.91	0.51
1:0:66:ILE:HD12	1:0:510:PHE:HE1	1.75	0.51
1:0:161:GLN:N	1:0:161:GLN:OE1	2.43	0.51
1:0:547:PRO:HA	1:0:553:PHE:HB3	1.91	0.51
1:1:85:PHE:HD1	1:1:99:ASP:CB	2.22	0.51
1:2:153:VAL:HB	1:2:505:VAL:HG23	1.93	0.51
1:2:339:GLN:HA	1:j:413:HIS:HA	1.91	0.51
1:2:391:ARG:HH22	1:j:309:ASN:HB2	1.74	0.51
1:2:469:ALA:CB	1:j:439:TYR:CE1	2.86	0.51
1:3:59:HIS:HE1	1:3:515:LYS:NZ	2.09	0.51
1:3:85:PHE:HD1	1:3:99:ASP:CB	2.22	0.51
1:5:281:GLN:HG2	1:5:567:THR:HB	1.93	0.51
1:a:391:ARG:HH22	1:b:309:ASN:HB2	1.75	0.51
1:b:344:THR:N	1:b:345:GLY:HA3	2.25	0.51
1:b:547:PRO:HA	1:b:553:PHE:HB3	1.91	0.51
1:c:59:HIS:HE1	1:c:515:LYS:HZ1	1.58	0.51
1:c:85:PHE:HD1	1:c:99:ASP:CB	2.22	0.51
1:c:364:VAL:HG21	1:c:539:ARG:HD3	1.93	0.51
1:d:267:TYR:OH	1:d:477:GLY:O	2.29	0.51
1:d:316:ARG:HH22	1:e:98:ASN:HD22	1.58	0.51
1:e:257:ARG:CG	1:q:37:SER:CB	2.73	0.51
1:f:153:VAL:HB	1:f:505:VAL:HG23	1.93	0.51
1:g:309:ASN:HB2	1:h:391:ARG:HH22	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:429:ARG:HH12	1:h:94:ARG:NH2	2.08	0.51
1:h:244:PHE:O	1:h:246:PRO:CD	2.56	0.51
1:h:560:GLY:H	1:h:562:ALA:N	2.07	0.51
1:k:37:SER:CB	1:s:257:ARG:CG	2.72	0.51
1:k:94:ARG:NH2	1:m:429:ARG:HH12	2.08	0.51
1:k:117:TRP:HA	1:k:454:ILE:HD11	1.92	0.51
1:k:341:HIS:HE2	1:m:406:ASP:CG	2.16	0.51
1:l:66:ILE:HD12	1:l:510:PHE:HE1	1.75	0.51
1:m:66:ILE:HD12	1:m:510:PHE:HE1	1.75	0.51
1:o:66:ILE:HD12	1:o:510:PHE:HE1	1.75	0.51
1:o:161:GLN:N	1:o:161:GLN:OE1	2.43	0.51
1:o:281:GLN:HG2	1:o:567:THR:HB	1.93	0.51
1:r:161:GLN:N	1:r:161:GLN:OE1	2.43	0.51
1:s:59:HIS:HE1	1:s:515:LYS:NZ	2.09	0.51
1:v:37:SER:CA	1:w:257:ARG:HG2	2.32	0.51
1:w:344:THR:N	1:w:345:GLY:HA3	2.25	0.51
1:y:267:TYR:OH	1:y:477:GLY:O	2.29	0.51
1:A:308:ILE:N	1:G:391:ARG:HH12	2.08	0.51
1:A:406:ASP:CG	1:G:341:HIS:HE2	2.16	0.51
1:B:246:PRO:HG3	1:L:528:TRP:CG	2.41	0.51
1:C:66:ILE:HD12	1:C:510:PHE:HE1	1.75	0.51
1:C:244:PHE:O	1:C:246:PRO:CD	2.56	0.51
1:C:246:PRO:HG3	1:M:528:TRP:HB3	1.86	0.51
1:D:281:GLN:HG2	1:D:567:THR:HB	1.93	0.51
1:E:263:GLU:HB2	1:E:264:SER:OG	2.10	0.51
1:E:429:ARG:HH12	1:Q:94:ARG:NH2	2.08	0.51
1:F:66:ILE:HD12	1:F:510:PHE:HE1	1.75	0.51
1:F:94:ARG:NH2	1:Q:429:ARG:HH12	2.08	0.51
1:F:161:GLN:N	1:F:161:GLN:OE1	2.43	0.51
1:G:281:GLN:HG2	1:G:567:THR:HB	1.92	0.51
1:H:547:PRO:HA	1:H:553:PHE:HB3	1.91	0.51
1:I:364:VAL:HG21	1:I:539:ARG:HD3	1.93	0.51
1:K:85:PHE:HD1	1:K:99:ASP:CB	2.22	0.51
1:L:117:TRP:HA	1:L:454:ILE:HD11	1.92	0.51
1:O:94:ARG:NH2	1:h:429:ARG:HH12	2.08	0.51
1:O:117:TRP:HA	1:O:454:ILE:HD11	1.92	0.51
1:U:281:GLN:HG2	1:U:567:THR:HB	1.93	0.51
1:V:94:ARG:NH2	1:X:429:ARG:HH12	2.08	0.51
1:V:161:GLN:N	1:V:161:GLN:OE1	2.43	0.51
1:W:59:HIS:HE1	1:W:515:LYS:NZ	2.09	0.51
1:X:341:HIS:HE2	1:4:406:ASP:CG	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:109:TRP:CD1	1:Y:247:LEU:HD22	2.46	0.51
1:0:267:TYR:OH	1:0:477:GLY:O	2.29	0.51
1:0:332:GLY:HA2	1:0:353:GLN:NE2	2.26	0.51
1:1:267:TYR:OH	1:1:477:GLY:O	2.29	0.51
1:2:439:TYR:CE1	1:i:469:ALA:CB	2.86	0.51
1:5:364:VAL:HG21	1:5:539:ARG:HD3	1.93	0.51
1:b:263:GLU:HB2	1:b:264:SER:OG	2.10	0.51
1:c:153:VAL:HB	1:c:505:VAL:HG23	1.93	0.51
1:c:267:TYR:OH	1:c:477:GLY:O	2.29	0.51
1:d:309:ASN:HB2	1:e:391:ARG:HH22	1.75	0.51
1:e:244:PHE:O	1:e:246:PRO:CD	2.56	0.51
1:j:59:HIS:HE1	1:j:515:LYS:NZ	2.09	0.51
1:j:85:PHE:HD1	1:j:99:ASP:CB	2.23	0.51
1:j:547:PRO:HA	1:j:553:PHE:HB3	1.91	0.51
1:k:173:LEU:HD22	1:k:255:LEU:HD12	1.91	0.51
1:n:358:ALA:HB2	1:n:399:GLU:HG3	1.93	0.51
1:n:429:ARG:HH12	1:o:94:ARG:NH2	2.08	0.51
1:o:153:VAL:HB	1:o:505:VAL:HG23	1.93	0.51
1:q:281:GLN:HG2	1:q:567:THR:HB	1.93	0.51
1:t:109:TRP:CD1	1:t:247:LEU:HD22	2.46	0.51
1:t:316:ARG:HH22	1:u:98:ASN:HD22	1.58	0.51
1:t:344:THR:N	1:t:345:GLY:HA3	2.25	0.51
1:w:244:PHE:O	1:w:246:PRO:CD	2.56	0.51
1:x:161:GLN:N	1:x:161:GLN:OE1	2.43	0.51
1:x:547:PRO:HA	1:x:553:PHE:HB3	1.91	0.51
1:y:145:ILE:HD11	1:y:482:LEU:HD21	1.91	0.51
1:6:214:ASP:OD2	1:6:238:GLN:HB3	2.11	0.51
1:6:281:GLN:HG2	1:6:567:THR:HB	1.93	0.51
1:7:161:GLN:N	1:7:161:GLN:OE1	2.43	0.51
1:7:267:TYR:OH	1:7:477:GLY:O	2.29	0.51
1:7:281:GLN:HG2	1:7:567:THR:HB	1.93	0.51
1:A:98:ASN:HD22	1:I:316:ARG:HH22	1.58	0.51
1:B:214:ASP:OD2	1:B:238:GLN:HB3	2.11	0.51
1:B:429:ARG:HH12	1:J:94:ARG:NH2	2.08	0.51
1:C:391:ARG:HH22	1:M:309:ASN:HB2	1.75	0.51
1:H:161:GLN:N	1:H:161:GLN:OE1	2.43	0.51
1:H:417:LEU:HB2	1:W:338:TRP:CD1	2.44	0.51
1:I:225:ASP:HB2	1:I:226:ARG:CB	2.36	0.51
1:I:344:THR:N	1:I:345:GLY:HA3	2.25	0.51
1:J:244:PHE:O	1:J:246:PRO:CD	2.56	0.51
1:J:364:VAL:HG21	1:J:539:ARG:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:547:PRO:HA	1:L:553:PHE:HB3	1.91	0.51
1:O:98:ASN:HD22	1:h:316:ARG:HH22	1.58	0.51
1:O:358:ALA:HB2	1:O:399:GLU:HG3	1.93	0.51
1:P:109:TRP:CD1	1:P:247:LEU:HD22	2.46	0.51
1:P:263:GLU:HB2	1:P:264:SER:OG	2.10	0.51
1:P:364:VAL:HG21	1:P:539:ARG:HD3	1.93	0.51
1:Q:344:THR:N	1:Q:345:GLY:HA3	2.25	0.51
1:R:117:TRP:HA	1:R:454:ILE:HD11	1.92	0.51
1:T:263:GLU:HB2	1:T:264:SER:OG	2.10	0.51
1:T:469:ALA:CB	1:f:439:TYR:CE1	2.86	0.51
1:U:214:ASP:OD2	1:U:238:GLN:HB3	2.11	0.51
1:V:267:TYR:OH	1:V:477:GLY:O	2.29	0.51
1:X:267:TYR:OH	1:X:477:GLY:O	2.29	0.51
1:X:332:GLY:HA2	1:X:353:GLN:NE2	2.26	0.51
1:X:547:PRO:HA	1:X:553:PHE:HB3	1.91	0.51
1:Z:109:TRP:CD1	1:Z:247:LEU:HD22	2.46	0.51
1:Z:547:PRO:HA	1:Z:553:PHE:HB3	1.91	0.51
1:0:429:ARG:HH12	1:7:94:ARG:NH2	2.08	0.51
1:1:153:VAL:HB	1:1:505:VAL:HG23	1.93	0.51
1:1:364:VAL:HG21	1:1:539:ARG:HD3	1.93	0.51
1:3:309:ASN:HB2	1:f:391:ARG:HH22	1.74	0.51
1:3:358:ALA:HB2	1:3:399:GLU:HG3	1.93	0.51
1:4:560:GLY:H	1:4:562:ALA:N	2.07	0.51
1:5:109:TRP:CD1	1:5:247:LEU:HD22	2.46	0.51
1:5:109:TRP:HZ3	1:5:485:LYS:HB3	1.67	0.51
1:5:492:ASP:O	1:t:65:HIS:NE2	2.42	0.51
1:a:117:TRP:HA	1:a:454:ILE:HD11	1.92	0.51
1:b:117:TRP:HA	1:b:454:ILE:HD11	1.92	0.51
1:b:358:ALA:HB2	1:b:399:GLU:HG3	1.93	0.51
1:c:344:THR:N	1:c:345:GLY:HA3	2.25	0.51
1:d:528:TRP:HB3	1:e:246:PRO:HG3	1.86	0.51
1:e:547:PRO:HA	1:e:553:PHE:HB3	1.91	0.51
1:h:153:VAL:HB	1:h:505:VAL:HG23	1.93	0.51
1:h:344:THR:N	1:h:345:GLY:HA3	2.25	0.51
1:i:263:GLU:HB2	1:i:264:SER:OG	2.10	0.51
1:j:153:VAL:HB	1:j:505:VAL:HG23	1.93	0.51
1:j:358:ALA:HB2	1:j:399:GLU:HG3	1.93	0.51
1:j:364:VAL:HG21	1:j:539:ARG:HD3	1.93	0.51
1:k:263:GLU:HB2	1:k:264:SER:OG	2.10	0.51
1:l:309:ASN:HB2	1:m:391:ARG:HH22	1.74	0.51
1:l:344:THR:N	1:l:345:GLY:HA3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:153:VAL:HB	1:m:505:VAL:HG23	1.93	0.51
1:n:59:HIS:HE1	1:n:515:LYS:NZ	2.09	0.51
1:n:344:THR:N	1:n:345:GLY:HA3	2.26	0.51
1:q:59:HIS:HE1	1:q:515:LYS:NZ	2.09	0.51
1:s:109:TRP:CD1	1:s:247:LEU:HD22	2.46	0.51
1:t:364:VAL:HG21	1:t:539:ARG:HD3	1.93	0.51
1:v:281:GLN:HG2	1:v:567:THR:HB	1.93	0.51
1:w:94:ARG:NH2	1:x:429:ARG:HH12	2.08	0.51
1:y:156:THR:O	1:y:163:THR:OG1	2.25	0.51
1:6:364:VAL:HG21	1:6:539:ARG:HD3	1.93	0.51
1:A:94:ARG:NH2	1:I:429:ARG:HH12	2.08	0.51
1:B:117:TRP:HA	1:B:454:ILE:HD11	1.92	0.51
1:C:59:HIS:HE1	1:C:515:LYS:NZ	2.09	0.51
1:C:323:SER:HG	1:1:98:ASN:HA	1.76	0.51
1:C:429:ARG:HH12	1:1:94:ARG:NH2	2.08	0.51
1:C:439:TYR:CE1	1:1:469:ALA:CB	2.87	0.51
1:C:547:PRO:HA	1:C:553:PHE:HB3	1.91	0.51
1:D:59:HIS:HE1	1:D:515:LYS:NZ	2.09	0.51
1:D:228:ASN:OD1	1:P:429:ARG:NH2	2.44	0.51
1:D:332:GLY:HA2	1:D:353:GLN:NE2	2.26	0.51
1:D:344:THR:N	1:D:345:GLY:HA3	2.25	0.51
1:G:117:TRP:HA	1:G:454:ILE:HD11	1.92	0.51
1:G:332:GLY:HA2	1:G:353:GLN:NE2	2.26	0.51
1:H:37:SER:HG	1:I:257:ARG:N	2.09	0.51
1:I:109:TRP:CD1	1:I:247:LEU:HD22	2.46	0.51
1:K:380:ASP:OD1	1:K:391:ARG:NH2	2.30	0.51
1:L:358:ALA:HB2	1:L:399:GLU:HG3	1.93	0.51
1:M:358:ALA:HB2	1:M:399:GLU:HG3	1.93	0.51
1:P:358:ALA:HB2	1:P:399:GLU:HG3	1.93	0.51
1:Q:263:GLU:HB2	1:Q:264:SER:OG	2.10	0.51
1:Q:332:GLY:HA2	1:Q:353:GLN:NE2	2.26	0.51
1:Q:358:ALA:HB2	1:Q:399:GLU:HG3	1.93	0.51
1:R:156:THR:O	1:R:163:THR:OG1	2.25	0.51
1:T:98:ASN:HD22	1:f:316:ARG:HH22	1.58	0.51
1:U:364:VAL:HG21	1:U:539:ARG:HD3	1.93	0.51
1:W:244:PHE:O	1:W:246:PRO:CD	2.56	0.51
1:X:492:ASP:OD1	1:X:493:VAL:N	2.44	0.51
1:Z:281:GLN:HG2	1:Z:567:THR:HB	1.92	0.51
1:1:263:GLU:HB2	1:1:264:SER:OG	2.10	0.51
1:1:344:THR:N	1:1:345:GLY:HA3	2.25	0.51
1:2:257:ARG:N	1:m:37:SER:HG	2.06	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:364:VAL:HG21	1:3:539:ARG:HD3	1.93	0.51
1:3:560:GLY:H	1:3:562:ALA:N	2.07	0.51
1:4:364:VAL:HG21	1:4:539:ARG:HD3	1.93	0.51
1:5:244:PHE:O	1:5:246:PRO:CD	2.56	0.51
1:a:145:ILE:HD11	1:a:482:LEU:HD21	1.91	0.51
1:b:281:GLN:HG2	1:b:567:THR:HB	1.93	0.51
1:c:94:ARG:NH2	1:e:429:ARG:HH12	2.08	0.51
1:c:101:TYR:CZ	1:c:236:GLY:HA3	2.44	0.51
1:c:263:GLU:HB2	1:c:264:SER:OG	2.10	0.51
1:d:59:HIS:HE1	1:d:515:LYS:NZ	2.09	0.51
1:d:358:ALA:HB2	1:d:399:GLU:HG3	1.93	0.51
1:d:429:ARG:HH12	1:e:94:ARG:NH2	2.08	0.51
1:e:59:HIS:HE1	1:e:515:LYS:NZ	2.09	0.51
1:g:129:LEU:HD11	1:g:136:ILE:HD13	1.91	0.51
1:g:344:THR:N	1:g:345:GLY:HA3	2.25	0.51
1:h:117:TRP:HA	1:h:454:ILE:HD11	1.92	0.51
1:i:153:VAL:HB	1:i:505:VAL:HG23	1.92	0.51
1:j:560:GLY:H	1:j:562:ALA:N	2.07	0.51
1:k:214:ASP:OD2	1:k:238:GLN:HB3	2.11	0.51
1:k:358:ALA:HB2	1:k:399:GLU:HG3	1.93	0.51
1:l:129:LEU:HD11	1:l:136:ILE:HD13	1.91	0.51
1:n:414:GLN:N	1:o:338:TRP:O	2.38	0.51
1:p:263:GLU:HB2	1:p:264:SER:OG	2.10	0.51
1:p:281:GLN:HG2	1:p:567:THR:HB	1.93	0.51
1:q:228:ASN:OD1	1:s:429:ARG:NH2	2.44	0.51
1:q:344:THR:N	1:q:345:GLY:HA3	2.25	0.51
1:r:406:ASP:CG	1:s:341:HIS:HE2	2.16	0.51
1:t:413:HIS:HA	1:u:339:GLN:HA	1.91	0.51
1:t:528:TRP:CB	1:u:246:PRO:CG	2.65	0.51
1:v:117:TRP:HA	1:v:454:ILE:HD11	1.92	0.51
1:v:332:GLY:HA2	1:v:353:GLN:NE2	2.26	0.51
1:w:59:HIS:HE1	1:w:515:LYS:NZ	2.09	0.51
1:w:358:ALA:HB2	1:w:399:GLU:HG3	1.93	0.51
1:y:358:ALA:HB2	1:y:399:GLU:HG3	1.93	0.51
1:A:214:ASP:OD2	1:A:238:GLN:HB3	2.11	0.51
1:A:246:PRO:HG3	1:I:528:TRP:HB3	1.86	0.51
1:B:173:LEU:HD22	1:B:255:LEU:HD12	1.91	0.51
1:B:246:PRO:HG3	1:L:528:TRP:HB3	1.86	0.51
1:C:257:ARG:CG	1:D:37:SER:CB	2.73	0.51
1:D:407:TRP:HE3	1:D:410:LYS:HG2	1.76	0.51
1:E:429:ARG:NH2	1:Q:228:ASN:OD1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:59:HIS:HE1	1:G:515:LYS:NZ	2.09	0.51
1:H:153:VAL:HB	1:H:505:VAL:HG23	1.93	0.51
1:H:281:GLN:HG2	1:H:567:THR:HB	1.93	0.51
1:H:332:GLY:HA2	1:H:353:GLN:NE2	2.26	0.51
1:H:492:ASP:OD1	1:H:493:VAL:N	2.44	0.51
1:J:109:TRP:CD1	1:J:247:LEU:HD22	2.46	0.51
1:J:323:SER:HG	1:L:98:ASN:HA	1.75	0.51
1:K:214:ASP:OD2	1:K:238:GLN:HB3	2.11	0.51
1:K:364:VAL:HG21	1:K:539:ARG:HD3	1.93	0.51
1:L:59:HIS:HE1	1:L:515:LYS:NZ	2.09	0.51
1:L:214:ASP:OD2	1:L:238:GLN:HB3	2.11	0.51
1:L:281:GLN:HG2	1:L:567:THR:HB	1.93	0.51
1:M:59:HIS:HE1	1:M:515:LYS:NZ	2.09	0.51
1:M:364:VAL:HG21	1:M:539:ARG:HD3	1.93	0.51
1:O:214:ASP:OD2	1:O:238:GLN:HB3	2.11	0.51
1:O:263:GLU:HB2	1:O:264:SER:OG	2.10	0.51
1:O:341:HIS:HE2	1:h:406:ASP:CG	2.17	0.51
1:O:429:ARG:NH2	1:g:228:ASN:OD1	2.44	0.51
1:R:358:ALA:HB2	1:R:399:GLU:HG3	1.93	0.51
1:S:116:CYS:HB2	1:S:119:VAL:HG23	1.91	0.51
1:S:406:ASP:CG	1:U:341:HIS:HE2	2.16	0.51
1:U:492:ASP:OD1	1:U:493:VAL:N	2.44	0.51
1:V:66:ILE:HD12	1:V:510:PHE:HE1	1.75	0.51
1:V:214:ASP:OD2	1:V:238:GLN:HB3	2.11	0.51
1:V:332:GLY:HA2	1:V:353:GLN:NE2	2.26	0.51
1:W:358:ALA:HB2	1:W:399:GLU:HG3	1.93	0.51
1:X:101:TYR:CZ	1:X:236:GLY:HA3	2.44	0.51
1:X:338:TRP:O	1:4:414:GLN:N	2.38	0.51
1:X:358:ALA:HB2	1:X:399:GLU:HG3	1.93	0.51
1:Z:98:ASN:HA	1:w:323:SER:HG	1.74	0.51
1:0:101:TYR:CZ	1:0:236:GLY:HA3	2.44	0.51
1:0:358:ALA:HB2	1:0:399:GLU:HG3	1.93	0.51
1:0:429:ARG:NH2	1:7:228:ASN:OD1	2.44	0.51
1:0:492:ASP:OD1	1:0:493:VAL:N	2.44	0.51
1:1:281:GLN:HG2	1:1:567:THR:HB	1.93	0.51
1:2:316:ARG:HH22	1:i:98:ASN:HD22	1.58	0.51
1:2:358:ALA:HB2	1:2:399:GLU:HG3	1.93	0.51
1:3:109:TRP:CD1	1:3:247:LEU:HD22	2.46	0.51
1:3:153:VAL:HB	1:3:505:VAL:HG23	1.93	0.51
1:4:66:ILE:HD12	1:4:510:PHE:HE1	1.75	0.51
1:4:214:ASP:OD2	1:4:238:GLN:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:338:TRP:CD1	1:a:417:LEU:HB2	2.45	0.51
1:a:173:LEU:HD22	1:a:255:LEU:HD12	1.91	0.51
1:a:214:ASP:OD2	1:a:238:GLN:HB3	2.11	0.51
1:b:214:ASP:OD2	1:b:238:GLN:HB3	2.11	0.51
1:c:281:GLN:HG2	1:c:567:THR:HB	1.93	0.51
1:d:364:VAL:HG21	1:d:539:ARG:HD3	1.93	0.51
1:f:109:TRP:CD1	1:f:247:LEU:HD22	2.46	0.51
1:f:257:ARG:N	1:h:37:SER:HG	2.06	0.51
1:f:358:ALA:HB2	1:f:399:GLU:HG3	1.93	0.51
1:g:117:TRP:HA	1:g:454:ILE:HD11	1.92	0.51
1:j:263:GLU:HB2	1:j:264:SER:OG	2.10	0.51
1:k:98:ASN:HD22	1:m:316:ARG:HH22	1.58	0.51
1:k:429:ARG:NH2	1:l:228:ASN:OD1	2.44	0.51
1:m:117:TRP:HA	1:m:454:ILE:HD11	1.92	0.51
1:m:344:THR:N	1:m:345:GLY:HA3	2.25	0.51
1:n:94:ARG:NH2	1:p:429:ARG:HH12	2.08	0.51
1:n:228:ASN:OD1	1:p:429:ARG:NH2	2.44	0.51
1:n:263:GLU:HB2	1:n:264:SER:OG	2.10	0.51
1:n:323:SER:HG	1:o:98:ASN:HA	1.72	0.51
1:s:263:GLU:HB2	1:s:264:SER:OG	2.10	0.51
1:u:214:ASP:OD2	1:u:238:GLN:HB3	2.11	0.51
1:v:59:HIS:HE1	1:v:515:LYS:NZ	2.09	0.51
1:w:391:ARG:HH22	1:x:309:ASN:HB2	1.75	0.51
1:w:492:ASP:OD1	1:w:493:VAL:N	2.45	0.51
1:x:153:VAL:HB	1:x:505:VAL:HG23	1.93	0.51
1:x:281:GLN:HG2	1:x:567:THR:HB	1.93	0.51
1:y:117:TRP:HA	1:y:454:ILE:HD11	1.92	0.51
1:y:391:ARG:HH22	1:6:309:ASN:HB2	1.75	0.51
1:z:244:PHE:O	1:z:246:PRO:CD	2.56	0.51
1:z:406:ASP:CG	1:6:341:HIS:HE2	2.16	0.51
1:7:66:ILE:HD12	1:7:510:PHE:HE1	1.75	0.51
1:A:364:VAL:HG21	1:A:539:ARG:HD3	1.93	0.50
1:C:364:VAL:HG21	1:C:539:ARG:HD3	1.93	0.50
1:E:281:GLN:HG2	1:E:567:THR:HB	1.93	0.50
1:E:323:SER:HG	1:Q:98:ASN:HA	1.72	0.50
1:E:332:GLY:HA2	1:E:353:GLN:NE2	2.26	0.50
1:E:337:GLU:HA	1:E:338:TRP:C	2.37	0.50
1:E:344:THR:N	1:E:345:GLY:HA3	2.25	0.50
1:F:263:GLU:HB2	1:F:264:SER:OG	2.10	0.50
1:G:337:GLU:HA	1:G:338:TRP:C	2.36	0.50
1:H:228:ASN:OD1	1:Y:429:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:309:ASN:HB2	1:W:391:ARG:HH22	1.75	0.50
1:I:100:SER:O	1:I:100:SER:OG	2.23	0.50
1:I:153:VAL:HB	1:I:505:VAL:HG23	1.93	0.50
1:J:358:ALA:HB2	1:J:399:GLU:HG3	1.93	0.50
1:K:109:TRP:CD1	1:K:247:LEU:HD22	2.46	0.50
1:K:267:TYR:OH	1:K:477:GLY:O	2.29	0.50
1:K:414:GLN:N	1:0:338:TRP:O	2.38	0.50
1:N:153:VAL:HB	1:N:505:VAL:HG23	1.93	0.50
1:N:528:TRP:CB	1:P:246:PRO:CG	2.65	0.50
1:R:109:TRP:CD1	1:R:247:LEU:HD22	2.46	0.50
1:R:391:ARG:HH22	1:U:309:ASN:HB2	1.75	0.50
1:S:156:THR:O	1:S:163:THR:OG1	2.25	0.50
1:T:153:VAL:HB	1:T:505:VAL:HG23	1.93	0.50
1:V:228:ASN:OD1	1:X:429:ARG:NH2	2.44	0.50
1:W:492:ASP:OD1	1:W:493:VAL:N	2.45	0.50
1:Y:117:TRP:HA	1:Y:454:ILE:HD11	1.92	0.50
1:Z:117:TRP:HA	1:Z:454:ILE:HD11	1.92	0.50
1:Z:358:ALA:HB2	1:Z:399:GLU:HG3	1.93	0.50
1:Z:469:ALA:CB	1:w:439:TYR:CE1	2.87	0.50
1:1:101:TYR:CZ	1:1:236:GLY:HA3	2.44	0.50
1:1:117:TRP:HA	1:1:454:ILE:HD11	1.92	0.50
1:1:156:THR:O	1:1:163:THR:OG1	2.25	0.50
1:1:492:ASP:OD1	1:1:493:VAL:N	2.44	0.50
1:2:109:TRP:CD1	1:2:247:LEU:HD22	2.46	0.50
1:2:214:ASP:OD2	1:2:238:GLN:HB3	2.11	0.50
1:2:344:THR:N	1:2:345:GLY:HA3	2.25	0.50
1:2:364:VAL:HG21	1:2:539:ARG:HD3	1.93	0.50
1:4:267:TYR:OH	1:4:477:GLY:O	2.29	0.50
1:5:358:ALA:HB2	1:5:399:GLU:HG3	1.93	0.50
1:a:246:PRO:CG	1:b:528:TRP:CB	2.65	0.50
1:a:364:VAL:HG21	1:a:539:ARG:HD3	1.93	0.50
1:a:533:LEU:HD21	1:t:127:GLN:HE21	1.76	0.50
1:b:59:HIS:HE1	1:b:515:LYS:NZ	2.09	0.50
1:c:117:TRP:HA	1:c:454:ILE:HD11	1.92	0.50
1:c:429:ARG:NH2	1:d:228:ASN:OD1	2.44	0.50
1:c:469:ALA:CB	1:e:439:TYR:CE1	2.86	0.50
1:c:492:ASP:OD1	1:c:493:VAL:N	2.44	0.50
1:e:66:ILE:HD12	1:e:510:PHE:HE1	1.75	0.50
1:e:364:VAL:HG21	1:e:539:ARG:HD3	1.93	0.50
1:f:66:ILE:HD12	1:f:510:PHE:HE1	1.75	0.50
1:f:344:THR:N	1:f:345:GLY:HA3	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:316:ARG:HH22	1:h:98:ASN:HD22	1.58	0.50
1:h:214:ASP:OD2	1:h:238:GLN:HB3	2.11	0.50
1:i:344:THR:N	1:i:345:GLY:HA3	2.25	0.50
1:j:109:TRP:CD1	1:j:247:LEU:HD22	2.46	0.50
1:j:267:TYR:OH	1:j:477:GLY:O	2.29	0.50
1:k:391:ARG:HH22	1:m:309:ASN:HB2	1.75	0.50
1:l:117:TRP:HA	1:l:454:ILE:HD11	1.92	0.50
1:l:316:ARG:HH22	1:m:98:ASN:HD22	1.58	0.50
1:m:214:ASP:OD2	1:m:238:GLN:HB3	2.11	0.50
1:n:214:ASP:OD2	1:n:238:GLN:HB3	2.11	0.50
1:n:332:GLY:HA2	1:n:353:GLN:NE2	2.26	0.50
1:o:109:TRP:CD1	1:o:247:LEU:HD22	2.46	0.50
1:o:263:GLU:HB2	1:o:264:SER:OG	2.10	0.50
1:o:267:TYR:OH	1:o:477:GLY:O	2.29	0.50
1:p:337:GLU:HA	1:p:338:TRP:C	2.37	0.50
1:r:153:VAL:HB	1:r:505:VAL:HG23	1.93	0.50
1:r:244:PHE:HE2	1:r:246:PRO:HB3	1.63	0.50
1:s:358:ALA:HB2	1:s:399:GLU:HG3	1.93	0.50
1:t:66:ILE:HD12	1:t:510:PHE:HE1	1.75	0.50
1:u:364:VAL:HG21	1:u:539:ARG:HD3	1.93	0.50
1:w:364:VAL:HG21	1:w:539:ARG:HD3	1.93	0.50
1:x:214:ASP:OD2	1:x:238:GLN:HB3	2.11	0.50
1:x:358:ALA:HB2	1:x:399:GLU:HG3	1.93	0.50
1:x:492:ASP:OD1	1:x:493:VAL:N	2.44	0.50
1:y:109:TRP:CD1	1:y:247:LEU:HD22	2.46	0.50
1:z:116:CYS:HB2	1:z:119:VAL:HG23	1.91	0.50
1:z:316:ARG:HH22	1:6:98:ASN:HD22	1.58	0.50
1:6:492:ASP:OD1	1:6:493:VAL:N	2.45	0.50
1:7:332:GLY:HA2	1:7:353:GLN:NE2	2.26	0.50
1:A:390:MET:HA	1:A:391:ARG:HD2	1.94	0.50
1:A:413:HIS:HA	1:G:339:GLN:HA	1.93	0.50
1:B:66:ILE:HD12	1:B:510:PHE:HE1	1.75	0.50
1:B:109:TRP:CD1	1:B:247:LEU:HD22	2.46	0.50
1:B:364:VAL:HG21	1:B:539:ARG:HD3	1.93	0.50
1:C:228:ASN:OD1	1:M:429:ARG:NH2	2.44	0.50
1:D:429:ARG:NH2	1:N:228:ASN:OD1	2.44	0.50
1:F:98:ASN:HD22	1:Q:316:ARG:HH22	1.58	0.50
1:F:267:TYR:OH	1:F:477:GLY:O	2.29	0.50
1:G:66:ILE:HD12	1:G:510:PHE:HE1	1.75	0.50
1:H:214:ASP:OD2	1:H:238:GLN:HB3	2.11	0.50
1:H:316:ARG:HH22	1:W:98:ASN:HD22	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:358:ALA:HB2	1:H:399:GLU:HG3	1.93	0.50
1:J:380:ASP:OD1	1:J:391:ARG:NH2	2.30	0.50
1:J:407:TRP:HE3	1:J:410:LYS:HG2	1.76	0.50
1:K:153:VAL:HB	1:K:505:VAL:HG23	1.93	0.50
1:K:429:ARG:NH2	1:0:228:ASN:OD1	2.44	0.50
1:K:560:GLY:H	1:K:562:ALA:N	2.08	0.50
1:N:429:ARG:NH2	1:P:228:ASN:OD1	2.44	0.50
1:O:267:TYR:OH	1:O:477:GLY:O	2.29	0.50
1:O:289:CYS:HA	1:g:212:HIS:CE1	2.47	0.50
1:O:391:ARG:HH22	1:h:309:ASN:HB2	1.75	0.50
1:P:407:TRP:HE3	1:P:410:LYS:HG2	1.77	0.50
1:Q:214:ASP:OD2	1:Q:238:GLN:HB3	2.11	0.50
1:R:228:ASN:OD1	1:U:429:ARG:NH2	2.44	0.50
1:R:308:ILE:N	1:S:391:ARG:HH12	2.10	0.50
1:R:364:VAL:HG21	1:R:539:ARG:HD3	1.93	0.50
1:S:244:PHE:O	1:S:246:PRO:CD	2.56	0.50
1:S:267:TYR:OH	1:S:477:GLY:O	2.29	0.50
1:S:316:ARG:HH22	1:U:98:ASN:HD22	1.59	0.50
1:S:358:ALA:HB2	1:S:399:GLU:HG3	1.93	0.50
1:S:429:ARG:NH2	1:U:228:ASN:OD1	2.44	0.50
1:T:109:TRP:CD1	1:T:247:LEU:HD22	2.46	0.50
1:T:344:THR:N	1:T:345:GLY:HA3	2.25	0.50
1:U:59:HIS:HE1	1:U:515:LYS:HZ1	1.58	0.50
1:V:344:THR:N	1:V:345:GLY:HA3	2.25	0.50
1:W:364:VAL:HG21	1:W:539:ARG:HD3	1.93	0.50
1:X:117:TRP:HA	1:X:454:ILE:HD11	1.92	0.50
1:X:228:ASN:OD1	1:4:429:ARG:NH2	2.44	0.50
1:Z:429:ARG:NH2	1:x:228:ASN:OD1	2.45	0.50
1:2:66:ILE:HD12	1:2:510:PHE:HE1	1.75	0.50
1:2:228:ASN:OD1	1:j:429:ARG:NH2	2.45	0.50
1:3:66:ILE:HD12	1:3:510:PHE:HE1	1.75	0.50
1:3:267:TYR:OH	1:3:477:GLY:O	2.29	0.50
1:3:429:ARG:NH2	1:f:228:ASN:OD1	2.45	0.50
1:4:109:TRP:CD1	1:4:247:LEU:HD22	2.46	0.50
1:4:156:THR:O	1:4:163:THR:OG1	2.25	0.50
1:a:66:ILE:HD12	1:a:510:PHE:HE1	1.75	0.50
1:a:281:GLN:HG2	1:a:567:THR:HB	1.93	0.50
1:b:390:MET:HA	1:b:391:ARG:HD2	1.94	0.50
1:d:257:ARG:HG2	1:f:37:SER:CA	2.31	0.50
1:e:117:TRP:HA	1:e:454:ILE:HD11	1.92	0.50
1:e:267:TYR:OH	1:e:477:GLY:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:431:SER:HG	1:e:433:HIS:CD2	2.25	0.50
1:f:214:ASP:OD2	1:f:238:GLN:HB3	2.11	0.50
1:f:364:VAL:HG21	1:f:539:ARG:HD3	1.93	0.50
1:g:59:HIS:HE1	1:g:515:LYS:NZ	2.09	0.50
1:g:358:ALA:HB2	1:g:399:GLU:HG3	1.93	0.50
1:k:109:TRP:CD1	1:k:247:LEU:HD22	2.46	0.50
1:k:289:CYS:HA	1:l:212:HIS:CE1	2.47	0.50
1:k:407:TRP:HE3	1:k:410:LYS:HG2	1.76	0.50
1:p:332:GLY:HA2	1:p:353:GLN:NE2	2.26	0.50
1:p:344:THR:N	1:p:345:GLY:HA3	2.25	0.50
1:q:429:ARG:NH2	1:r:228:ASN:OD1	2.44	0.50
1:r:429:ARG:NH2	1:s:228:ASN:OD1	2.44	0.50
1:t:225:ASP:HB2	1:t:226:ARG:CB	2.36	0.50
1:u:390:MET:HA	1:u:391:ARG:HD2	1.94	0.50
1:w:98:ASN:HD22	1:x:316:ARG:HH22	1.58	0.50
1:x:332:GLY:HA2	1:x:353:GLN:NE2	2.26	0.50
1:y:228:ASN:OD1	1:6:429:ARG:NH2	2.44	0.50
1:y:308:ILE:N	1:z:391:ARG:HH12	2.10	0.50
1:y:364:VAL:HG21	1:y:539:ARG:HD3	1.93	0.50
1:y:390:MET:HA	1:y:391:ARG:HD2	1.94	0.50
1:z:267:TYR:OH	1:z:477:GLY:O	2.29	0.50
1:z:429:ARG:NH2	1:6:228:ASN:OD1	2.44	0.50
1:7:214:ASP:OD2	1:7:238:GLN:HB3	2.11	0.50
1:C:94:ARG:NH2	1:M:429:ARG:HH12	2.08	0.50
1:C:117:TRP:HA	1:C:454:ILE:HD11	1.92	0.50
1:C:153:VAL:HB	1:C:505:VAL:HG23	1.93	0.50
1:C:214:ASP:OD2	1:C:238:GLN:HB3	2.11	0.50
1:C:267:TYR:OH	1:C:477:GLY:O	2.29	0.50
1:E:528:TRP:CB	1:Q:246:PRO:CG	2.65	0.50
1:F:109:TRP:CD1	1:F:247:LEU:HD22	2.46	0.50
1:I:66:ILE:HD12	1:I:510:PHE:HE1	1.75	0.50
1:I:337:GLU:HA	1:I:338:TRP:C	2.37	0.50
1:J:59:HIS:HE1	1:J:515:LYS:NZ	2.09	0.50
1:J:379:TYR:CD2	1:J:392:GLU:HG3	2.44	0.50
1:K:66:ILE:HD12	1:K:510:PHE:HE1	1.75	0.50
1:M:228:ASN:OD1	1:1:429:ARG:NH2	2.44	0.50
1:M:391:ARG:HH12	1:1:308:ILE:N	2.10	0.50
1:M:391:ARG:HH22	1:1:309:ASN:HB2	1.75	0.50
1:O:66:ILE:HD12	1:O:510:PHE:HE1	1.75	0.50
1:O:391:ARG:HH12	1:h:308:ILE:N	2.10	0.50
1:P:267:TYR:OH	1:P:477:GLY:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:337:GLU:HA	1:P:338:TRP:C	2.37	0.50
1:R:59:HIS:HE1	1:R:515:LYS:NZ	2.09	0.50
1:R:390:MET:HA	1:R:391:ARG:HD2	1.94	0.50
1:T:228:ASN:OD1	1:f:429:ARG:NH2	2.45	0.50
1:T:281:GLN:HG2	1:T:567:THR:HB	1.93	0.50
1:T:364:VAL:HG21	1:T:539:ARG:HD3	1.93	0.50
1:V:492:ASP:OD1	1:V:493:VAL:N	2.44	0.50
1:W:390:MET:HA	1:W:391:ARG:HD2	1.94	0.50
1:X:59:HIS:HE1	1:X:515:LYS:NZ	2.09	0.50
1:Y:281:GLN:HG2	1:Y:567:THR:HB	1.93	0.50
1:Y:358:ALA:HB2	1:Y:399:GLU:HG3	1.93	0.50
1:0:117:TRP:HA	1:0:454:ILE:HD11	1.92	0.50
1:3:59:HIS:HE1	1:3:515:LYS:HZ1	1.60	0.50
1:3:263:GLU:HB2	1:3:264:SER:OG	2.10	0.50
1:5:59:HIS:HE1	1:5:515:LYS:NZ	2.09	0.50
1:5:379:TYR:CD2	1:5:392:GLU:HG3	2.44	0.50
1:a:246:PRO:HG3	1:b:528:TRP:HB3	1.87	0.50
1:c:156:THR:O	1:c:163:THR:OG1	2.25	0.50
1:c:308:ILE:N	1:d:391:ARG:HH12	2.10	0.50
1:d:332:GLY:HA2	1:d:353:GLN:NE2	2.26	0.50
1:e:153:VAL:HB	1:e:505:VAL:HG23	1.93	0.50
1:h:267:TYR:OH	1:h:477:GLY:O	2.29	0.50
1:i:109:TRP:CD1	1:i:247:LEU:HD22	2.46	0.50
1:i:281:GLN:HG2	1:i:567:THR:HB	1.93	0.50
1:j:59:HIS:HE1	1:j:515:LYS:HZ1	1.60	0.50
1:k:267:TYR:OH	1:k:477:GLY:O	2.29	0.50
1:k:391:ARG:HH12	1:m:308:ILE:N	2.10	0.50
1:l:59:HIS:HE1	1:l:515:LYS:NZ	2.09	0.50
1:l:358:ALA:HB2	1:l:399:GLU:HG3	1.93	0.50
1:l:429:ARG:NH2	1:m:228:ASN:OD1	2.45	0.50
1:r:407:TRP:HE3	1:r:410:LYS:HG2	1.76	0.50
1:s:267:TYR:OH	1:s:477:GLY:O	2.29	0.50
1:s:407:TRP:HE3	1:s:410:LYS:HG2	1.77	0.50
1:t:153:VAL:HB	1:t:505:VAL:HG23	1.93	0.50
1:t:281:GLN:HG2	1:t:567:THR:HB	1.93	0.50
1:t:337:GLU:HA	1:t:338:TRP:C	2.37	0.50
1:u:109:TRP:CD1	1:u:247:LEU:HD22	2.46	0.50
1:u:316:ARG:HH22	1:v:98:ASN:HD22	1.58	0.50
1:u:337:GLU:HA	1:u:338:TRP:C	2.37	0.50
1:v:267:TYR:OH	1:v:477:GLY:O	2.29	0.50
1:w:390:MET:HA	1:w:391:ARG:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:59:HIS:HE1	1:y:515:LYS:NZ	2.09	0.50
1:y:337:GLU:HA	1:y:338:TRP:C	2.37	0.50
1:z:281:GLN:HG2	1:z:567:THR:HB	1.93	0.50
1:z:358:ALA:HB2	1:z:399:GLU:HG3	1.93	0.50
1:7:153:VAL:HB	1:7:505:VAL:HG23	1.93	0.50
1:7:492:ASP:OD1	1:7:493:VAL:N	2.44	0.50
1:A:109:TRP:CD1	1:A:247:LEU:HD22	2.46	0.50
1:A:117:TRP:HA	1:A:454:ILE:HD11	1.92	0.50
1:A:225:ASP:HB2	1:A:226:ARG:CB	2.36	0.50
1:A:337:GLU:HA	1:A:338:TRP:C	2.37	0.50
1:B:228:ASN:OD1	1:L:429:ARG:NH2	2.45	0.50
1:B:281:GLN:HG2	1:B:567:THR:HB	1.93	0.50
1:B:358:ALA:HB2	1:B:399:GLU:HG3	1.93	0.50
1:C:407:TRP:HE3	1:C:410:LYS:HG2	1.77	0.50
1:C:431:SER:HG	1:C:433:HIS:CD2	2.25	0.50
1:D:308:ILE:N	1:N:391:ARG:HH12	2.10	0.50
1:D:391:ARG:HH12	1:P:308:ILE:N	2.10	0.50
1:E:308:ILE:N	1:Q:391:ARG:HH12	2.10	0.50
1:F:364:VAL:HG21	1:F:539:ARG:HD3	1.93	0.50
1:G:267:TYR:OH	1:G:477:GLY:O	2.29	0.50
1:G:390:MET:HA	1:G:391:ARG:HD2	1.94	0.50
1:H:337:GLU:HA	1:H:338:TRP:C	2.37	0.50
1:H:439:TYR:CE1	1:W:469:ALA:CB	2.87	0.50
1:I:214:ASP:OD2	1:I:238:GLN:HB3	2.11	0.50
1:I:281:GLN:HG2	1:I:567:THR:HB	1.93	0.50
1:K:338:TRP:O	1:7:414:GLN:N	2.38	0.50
1:L:390:MET:HA	1:L:391:ARG:HD2	1.94	0.50
1:M:109:TRP:CD1	1:M:247:LEU:HD22	2.46	0.50
1:N:117:TRP:HA	1:N:454:ILE:HD11	1.92	0.50
1:N:281:GLN:HG2	1:N:567:THR:HB	1.93	0.50
1:O:109:TRP:CD1	1:O:247:LEU:HD22	2.46	0.50
1:O:344:THR:N	1:O:345:GLY:HA3	2.25	0.50
1:O:407:TRP:HE3	1:O:410:LYS:HG2	1.77	0.50
1:P:153:VAL:HB	1:P:505:VAL:HG23	1.93	0.50
1:R:263:GLU:HB2	1:R:264:SER:OG	2.10	0.50
1:R:429:ARG:NH2	1:S:228:ASN:OD1	2.45	0.50
1:S:59:HIS:HE1	1:S:515:LYS:NZ	2.09	0.50
1:T:358:ALA:HB2	1:T:399:GLU:HG3	1.93	0.50
1:T:429:ARG:NH2	1:3:228:ASN:OD1	2.45	0.50
1:U:344:THR:N	1:U:345:GLY:HA3	2.25	0.50
1:V:153:VAL:HB	1:V:505:VAL:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:267:TYR:OH	1:W:477:GLY:O	2.29	0.50
1:W:323:SER:HG	1:Y:98:ASN:HA	1.74	0.50
1:X:153:VAL:HB	1:X:505:VAL:HG23	1.93	0.50
1:X:337:GLU:HA	1:X:338:TRP:C	2.37	0.50
1:Y:85:PHE:HD1	1:Y:99:ASP:CB	2.22	0.50
1:0:59:HIS:HE1	1:0:515:LYS:NZ	2.09	0.50
1:0:153:VAL:HB	1:0:505:VAL:HG23	1.93	0.50
1:0:316:ARG:HH22	1:7:98:ASN:HD22	1.58	0.50
1:0:337:GLU:HA	1:0:338:TRP:C	2.37	0.50
1:2:390:MET:HA	1:2:391:ARG:HD2	1.94	0.50
1:2:429:ARG:NH2	1:i:228:ASN:OD1	2.45	0.50
1:3:390:MET:HA	1:3:391:ARG:HD2	1.94	0.50
1:4:116:CYS:HB2	1:4:119:VAL:HG23	1.92	0.50
1:4:117:TRP:HA	1:4:454:ILE:HD11	1.92	0.50
1:4:153:VAL:HB	1:4:505:VAL:HG23	1.93	0.50
1:5:332:GLY:HA2	1:5:353:GLN:NE2	2.26	0.50
1:5:407:TRP:HE3	1:5:410:LYS:HG2	1.77	0.50
1:a:109:TRP:CD1	1:a:247:LEU:HD22	2.46	0.50
1:a:358:ALA:HB2	1:a:399:GLU:HG3	1.93	0.50
1:b:109:TRP:CD1	1:b:247:LEU:HD22	2.46	0.50
1:e:109:TRP:CD1	1:e:247:LEU:HD22	2.46	0.50
1:e:214:ASP:OD2	1:e:238:GLN:HB3	2.11	0.50
1:f:390:MET:HA	1:f:391:ARG:HD2	1.94	0.50
1:g:337:GLU:HA	1:g:338:TRP:C	2.37	0.50
1:g:429:ARG:NH2	1:h:228:ASN:OD1	2.45	0.50
1:h:407:TRP:HE3	1:h:410:LYS:HG2	1.76	0.50
1:i:59:HIS:HE1	1:i:515:LYS:NZ	2.09	0.50
1:i:429:ARG:NH2	1:j:228:ASN:OD1	2.45	0.50
1:i:492:ASP:OD1	1:i:493:VAL:N	2.44	0.50
1:j:390:MET:HA	1:j:391:ARG:HD2	1.94	0.50
1:j:492:ASP:OD1	1:j:493:VAL:N	2.44	0.50
1:l:267:TYR:OH	1:l:477:GLY:O	2.29	0.50
1:l:337:GLU:HA	1:l:338:TRP:C	2.37	0.50
1:l:407:TRP:HE3	1:l:410:LYS:HG2	1.77	0.50
1:n:246:PRO:CG	1:p:528:TRP:CB	2.66	0.50
1:o:364:VAL:HG21	1:o:539:ARG:HD3	1.93	0.50
1:q:225:ASP:HB2	1:q:226:ARG:CB	2.36	0.50
1:r:117:TRP:HA	1:r:454:ILE:HD11	1.92	0.50
1:r:364:VAL:HG21	1:r:539:ARG:HD3	1.93	0.50
1:s:337:GLU:HA	1:s:338:TRP:C	2.37	0.50
1:t:214:ASP:OD2	1:t:238:GLN:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:406:ASP:CG	1:v:341:HIS:HE2	2.16	0.50
1:v:337:GLU:HA	1:v:338:TRP:C	2.37	0.50
1:x:390:MET:HA	1:x:391:ARG:HD2	1.94	0.50
1:y:263:GLU:HB2	1:y:264:SER:OG	2.10	0.50
1:y:413:HIS:HA	1:z:339:GLN:HA	1.91	0.50
1:y:492:ASP:OD1	1:y:493:VAL:N	2.44	0.50
1:z:66:ILE:HD12	1:z:510:PHE:HE1	1.75	0.50
1:z:337:GLU:HA	1:z:338:TRP:C	2.37	0.50
1:7:59:HIS:HE1	1:7:515:LYS:NZ	2.09	0.50
1:A:246:PRO:CG	1:I:528:TRP:CB	2.66	0.50
1:A:407:TRP:HE3	1:A:410:LYS:HG2	1.77	0.50
1:A:492:ASP:OD1	1:A:493:VAL:N	2.44	0.50
1:B:308:ILE:N	1:J:391:ARG:HH12	2.10	0.50
1:C:109:TRP:CD1	1:C:247:LEU:HD22	2.46	0.50
1:D:109:TRP:CD1	1:D:247:LEU:HD22	2.46	0.50
1:D:225:ASP:HB2	1:D:226:ARG:CB	2.36	0.50
1:F:228:ASN:OD1	1:Q:429:ARG:NH2	2.45	0.50
1:H:391:ARG:HH12	1:Y:308:ILE:N	2.10	0.50
1:J:289:CYS:HA	1:L:212:HIS:CE1	2.47	0.50
1:J:332:GLY:HA2	1:J:353:GLN:NE2	2.26	0.50
1:K:156:THR:O	1:K:163:THR:OG1	2.25	0.50
1:L:109:TRP:CD1	1:L:247:LEU:HD22	2.46	0.50
1:M:257:ARG:HG2	1:2:37:SER:CA	2.32	0.50
1:N:214:ASP:OD2	1:N:238:GLN:HB3	2.11	0.50
1:N:344:THR:N	1:N:345:GLY:HA3	2.25	0.50
1:N:364:VAL:HG21	1:N:539:ARG:HD3	1.93	0.50
1:N:407:TRP:HE3	1:N:410:LYS:HG2	1.77	0.50
1:P:281:GLN:HG2	1:P:567:THR:HB	1.92	0.50
1:P:344:THR:N	1:P:345:GLY:HA3	2.25	0.50
1:Q:267:TYR:OH	1:Q:477:GLY:O	2.29	0.50
1:Q:492:ASP:OD1	1:Q:493:VAL:N	2.44	0.50
1:R:337:GLU:HA	1:R:338:TRP:C	2.37	0.50
1:R:413:HIS:HA	1:S:339:GLN:HA	1.91	0.50
1:S:281:GLN:HG2	1:S:567:THR:HB	1.93	0.50
1:S:337:GLU:HA	1:S:338:TRP:C	2.37	0.50
1:T:59:HIS:HE1	1:T:515:LYS:NZ	2.09	0.50
1:U:109:TRP:CD1	1:U:247:LEU:HD22	2.46	0.50
1:V:98:ASN:HD22	1:X:316:ARG:HH22	1.58	0.50
1:V:364:VAL:HG21	1:V:539:ARG:HD3	1.93	0.50
1:W:308:ILE:N	1:Y:391:ARG:HH12	2.10	0.50
1:Y:214:ASP:OD2	1:Y:238:GLN:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:214:ASP:OD2	1:Z:238:GLN:HB3	2.11	0.50
1:Z:308:ILE:N	1:x:391:ARG:HH12	2.10	0.50
1:Z:391:ARG:HH12	1:w:308:ILE:N	2.10	0.50
1:2:117:TRP:HA	1:2:454:ILE:HD11	1.92	0.50
1:3:407:TRP:HE3	1:3:410:LYS:HG2	1.76	0.50
1:3:492:ASP:OD1	1:3:493:VAL:N	2.45	0.50
1:4:379:TYR:CD2	1:4:392:GLU:HG3	2.44	0.50
1:5:411:ASN:HD22	1:b:342:TYR:H	1.57	0.50
1:5:414:GLN:N	1:b:338:TRP:O	2.40	0.50
1:c:289:CYS:HA	1:d:212:HIS:CE1	2.47	0.50
1:d:414:GLN:N	1:e:338:TRP:O	2.37	0.50
1:d:429:ARG:NH2	1:e:228:ASN:OD1	2.45	0.50
1:e:407:TRP:HE3	1:e:410:LYS:HG2	1.77	0.50
1:f:117:TRP:HA	1:f:454:ILE:HD11	1.92	0.50
1:g:85:PHE:HD1	1:g:99:ASP:CB	2.22	0.50
1:g:109:TRP:CD1	1:g:247:LEU:HD22	2.46	0.50
1:g:267:TYR:OH	1:g:477:GLY:O	2.29	0.50
1:h:337:GLU:HA	1:h:338:TRP:C	2.37	0.50
1:i:358:ALA:HB2	1:i:399:GLU:HG3	1.93	0.50
1:i:364:VAL:HG21	1:i:539:ARG:HD3	1.93	0.50
1:j:66:ILE:HD12	1:j:510:PHE:HE1	1.75	0.50
1:k:66:ILE:HD12	1:k:510:PHE:HE1	1.75	0.50
1:l:116:CYS:HB2	1:l:119:VAL:HG23	1.92	0.50
1:m:267:TYR:OH	1:m:477:GLY:O	2.29	0.50
1:m:337:GLU:HA	1:m:338:TRP:C	2.37	0.50
1:m:407:TRP:HE3	1:m:410:LYS:HG2	1.77	0.50
1:n:267:TYR:OH	1:n:477:GLY:O	2.29	0.50
1:n:316:ARG:HH22	1:o:98:ASN:HD22	1.58	0.50
1:n:429:ARG:NH2	1:o:228:ASN:OD1	2.45	0.50
1:p:257:ARG:N	1:u:37:SER:HG	2.08	0.50
1:q:308:ILE:N	1:r:391:ARG:HH12	2.10	0.50
1:q:364:VAL:HG21	1:q:539:ARG:HD3	1.93	0.50
1:r:214:ASP:OD2	1:r:238:GLN:HB3	2.11	0.50
1:r:281:GLN:HG2	1:r:567:THR:HB	1.93	0.50
1:s:153:VAL:HB	1:s:505:VAL:HG23	1.93	0.50
1:s:344:THR:N	1:s:345:GLY:HA3	2.25	0.50
1:t:100:SER:O	1:t:100:SER:OG	2.23	0.50
1:t:101:TYR:CZ	1:t:236:GLY:HA3	2.44	0.50
1:t:358:ALA:HB2	1:t:399:GLU:HG3	1.93	0.50
1:u:117:TRP:HA	1:u:454:ILE:HD11	1.92	0.50
1:u:281:GLN:HG2	1:u:567:THR:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:439:TYR:CE1	1:v:469:ALA:CB	2.86	0.50
1:v:59:HIS:HE1	1:v:515:LYS:HZ1	1.60	0.50
1:v:390:MET:HA	1:v:391:ARG:HD2	1.94	0.50
1:w:469:ALA:CB	1:x:439:TYR:CE1	2.87	0.50
1:x:337:GLU:HA	1:x:338:TRP:C	2.37	0.50
1:y:429:ARG:NH2	1:z:228:ASN:OD1	2.45	0.50
1:z:492:ASP:OD1	1:z:493:VAL:N	2.44	0.50
1:6:390:MET:HA	1:6:391:ARG:HD2	1.94	0.50
1:A:100:SER:O	1:A:100:SER:OG	2.23	0.50
1:A:127:GLN:HE21	1:F:533:LEU:HD21	1.77	0.50
1:A:281:GLN:HG2	1:A:567:THR:HB	1.93	0.50
1:B:429:ARG:NH2	1:J:228:ASN:OD1	2.44	0.50
1:D:214:ASP:OD2	1:D:238:GLN:HB3	2.11	0.50
1:E:153:VAL:HB	1:E:505:VAL:HG23	1.93	0.50
1:E:214:ASP:OD2	1:E:238:GLN:HB3	2.11	0.50
1:E:316:ARG:HH22	1:Q:98:ASN:HD22	1.58	0.50
1:H:212:HIS:CE1	1:Y:289:CYS:HA	2.47	0.50
1:H:390:MET:HA	1:H:391:ARG:HD2	1.94	0.50
1:H:429:ARG:NH2	1:W:228:ASN:OD1	2.44	0.50
1:I:101:TYR:CZ	1:I:236:GLY:HA3	2.44	0.50
1:I:358:ALA:HB2	1:I:399:GLU:HG3	1.93	0.50
1:K:116:CYS:HB2	1:K:119:VAL:HG23	1.92	0.50
1:K:228:ASN:OD1	1:7:429:ARG:NH2	2.44	0.50
1:K:344:THR:N	1:K:345:GLY:HA3	2.25	0.50
1:K:528:TRP:HB3	1:0:246:PRO:HG3	1.85	0.50
1:M:212:HIS:CE1	1:1:289:CYS:HA	2.47	0.50
1:O:212:HIS:CE1	1:h:289:CYS:HA	2.47	0.50
1:O:364:VAL:HG21	1:O:539:ARG:HD3	1.93	0.50
1:R:267:TYR:OH	1:R:477:GLY:O	2.29	0.50
1:R:391:ARG:HH12	1:U:308:ILE:N	2.10	0.50
1:R:492:ASP:OD1	1:R:493:VAL:N	2.44	0.50
1:S:66:ILE:HD12	1:S:510:PHE:HE1	1.75	0.50
1:S:344:THR:N	1:S:345:GLY:HA3	2.25	0.50
1:S:492:ASP:OD1	1:S:493:VAL:N	2.44	0.50
1:T:65:HIS:NE2	1:U:492:ASP:O	2.41	0.50
1:T:257:ARG:CG	1:c:37:SER:CB	2.72	0.50
1:T:492:ASP:OD1	1:T:493:VAL:N	2.44	0.50
1:U:390:MET:HA	1:U:391:ARG:HD2	1.94	0.50
1:V:59:HIS:HE1	1:V:515:LYS:NZ	2.09	0.50
1:V:178:GLN:HE21	1:V:262:TRP:HH2	1.60	0.50
1:V:289:CYS:HA	1:4:212:HIS:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:429:ARG:NH2	1:4:228:ASN:OD1	2.44	0.50
1:Y:59:HIS:HE1	1:Y:515:LYS:NZ	2.09	0.50
1:Z:407:TRP:HE3	1:Z:410:LYS:HG2	1.76	0.50
1:1:337:GLU:HA	1:1:338:TRP:C	2.37	0.50
1:4:223:GLN:HB3	1:4:226:ARG:HB3	1.94	0.50
1:5:94:ARG:NH2	1:a:429:ARG:HH12	2.08	0.50
1:5:390:MET:HA	1:5:391:ARG:HD2	1.94	0.50
1:c:309:ASN:HB2	1:d:391:ARG:HH22	1.75	0.50
1:c:341:HIS:HE2	1:e:406:ASP:CG	2.17	0.50
1:d:109:TRP:CD1	1:d:247:LEU:HD22	2.46	0.50
1:e:116:CYS:HB2	1:e:119:VAL:HG23	1.91	0.50
1:g:390:MET:HA	1:g:391:ARG:HD2	1.94	0.50
1:g:407:TRP:HE3	1:g:410:LYS:HG2	1.77	0.50
1:j:407:TRP:HE3	1:j:410:LYS:HG2	1.76	0.50
1:k:178:GLN:HE21	1:k:262:TRP:HH2	1.60	0.50
1:k:212:HIS:CE1	1:m:289:CYS:HA	2.47	0.50
1:k:344:THR:N	1:k:345:GLY:HA3	2.25	0.50
1:k:364:VAL:HG21	1:k:539:ARG:HD3	1.93	0.50
1:l:109:TRP:CD1	1:l:247:LEU:HD22	2.46	0.50
1:n:391:ARG:HH12	1:p:308:ILE:N	2.10	0.50
1:n:492:ASP:OD1	1:n:493:VAL:N	2.44	0.50
1:o:289:CYS:HA	1:p:212:HIS:CE1	2.47	0.50
1:o:390:MET:HA	1:o:391:ARG:HD2	1.94	0.50
1:p:153:VAL:HB	1:p:505:VAL:HG23	1.93	0.50
1:p:214:ASP:OD2	1:p:238:GLN:HB3	2.11	0.50
1:q:98:ASN:HB2	1:s:316:ARG:HH21	1.67	0.50
1:q:109:TRP:CD1	1:q:247:LEU:HD22	2.46	0.50
1:q:391:ARG:HH12	1:s:308:ILE:N	2.10	0.50
1:r:344:THR:N	1:r:345:GLY:HA3	2.25	0.50
1:s:66:ILE:HD12	1:s:510:PHE:HE1	1.75	0.50
1:t:492:ASP:OD1	1:t:493:VAL:N	2.44	0.50
1:u:153:VAL:HB	1:u:505:VAL:HG23	1.93	0.50
1:u:407:TRP:HE3	1:u:410:LYS:HG2	1.77	0.50
1:u:492:ASP:OD1	1:u:493:VAL:N	2.44	0.50
1:v:66:ILE:HD12	1:v:510:PHE:HE1	1.75	0.50
1:v:178:GLN:HE21	1:v:262:TRP:HH2	1.60	0.50
1:v:214:ASP:OD2	1:v:238:GLN:HB3	2.11	0.50
1:w:267:TYR:OH	1:w:477:GLY:O	2.29	0.50
1:x:59:HIS:HE1	1:x:515:LYS:NZ	2.09	0.50
1:x:225:ASP:HB2	1:x:226:ARG:CB	2.36	0.50
1:y:391:ARG:HH12	1:6:308:ILE:N	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:344:THR:N	1:z:345:GLY:HA3	2.25	0.50
1:6:344:THR:N	1:6:345:GLY:HA3	2.25	0.50
1:7:178:GLN:HE21	1:7:262:TRP:HH2	1.60	0.50
1:7:244:PHE:HE2	1:7:246:PRO:HB3	1.63	0.50
1:7:364:VAL:HG21	1:7:539:ARG:HD3	1.93	0.50
1:B:391:ARG:HH12	1:L:308:ILE:N	2.10	0.50
1:C:101:TYR:CZ	1:C:236:GLY:HA3	2.44	0.50
1:C:116:CYS:HB2	1:C:119:VAL:HG23	1.92	0.50
1:D:98:ASN:HB2	1:P:316:ARG:HH21	1.67	0.50
1:D:337:GLU:HA	1:D:338:TRP:C	2.37	0.50
1:D:364:VAL:HG21	1:D:539:ARG:HD3	1.93	0.50
1:D:469:ALA:CB	1:P:439:TYR:CE1	2.86	0.50
1:E:212:HIS:CE1	1:F:289:CYS:HA	2.47	0.50
1:E:407:TRP:HE3	1:E:410:LYS:HG2	1.76	0.50
1:F:492:ASP:OD1	1:F:493:VAL:N	2.44	0.50
1:G:178:GLN:HE21	1:G:262:TRP:HH2	1.60	0.50
1:G:214:ASP:OD2	1:G:238:GLN:HB3	2.11	0.50
1:H:59:HIS:HE1	1:H:515:LYS:NZ	2.09	0.50
1:H:225:ASP:HB2	1:H:226:ARG:CB	2.36	0.50
1:I:390:MET:HA	1:I:391:ARG:HD2	1.94	0.50
1:I:492:ASP:OD1	1:I:493:VAL:N	2.44	0.50
1:J:390:MET:HA	1:J:391:ARG:HD2	1.94	0.50
1:K:117:TRP:HA	1:K:454:ILE:HD11	1.92	0.50
1:K:212:HIS:CE1	1:7:289:CYS:HA	2.47	0.50
1:K:223:GLN:HB3	1:K:226:ARG:HB3	1.94	0.50
1:K:379:TYR:CD2	1:K:392:GLU:HG3	2.44	0.50
1:K:439:TYR:CE1	1:0:469:ALA:CB	2.86	0.50
1:K:492:ASP:OD1	1:K:493:VAL:N	2.44	0.50
1:L:267:TYR:OH	1:L:477:GLY:O	2.29	0.50
1:M:223:GLN:HB3	1:M:226:ARG:HB3	1.94	0.50
1:N:308:ILE:N	1:P:391:ARG:HH12	2.10	0.50
1:N:358:ALA:HB2	1:N:399:GLU:HG3	1.93	0.50
1:O:178:GLN:HE21	1:O:262:TRP:HH2	1.60	0.50
1:O:281:GLN:HG2	1:O:567:THR:HB	1.93	0.50
1:O:528:TRP:CB	1:g:246:PRO:CG	2.66	0.50
1:P:214:ASP:OD2	1:P:238:GLN:HB3	2.11	0.50
1:U:223:GLN:HB3	1:U:226:ARG:HB3	1.94	0.50
1:V:109:TRP:CD1	1:V:247:LEU:HD22	2.46	0.50
1:X:109:TRP:CD1	1:X:247:LEU:HD22	2.46	0.50
1:X:223:GLN:HB3	1:X:226:ARG:HB3	1.94	0.50
1:Y:390:MET:HA	1:Y:391:ARG:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:492:ASP:OD1	1:Y:493:VAL:N	2.44	0.50
1:Z:289:CYS:HA	1:x:212:HIS:CE1	2.47	0.50
1:Z:390:MET:HA	1:Z:391:ARG:HD2	1.94	0.50
1:Z:492:ASP:OD1	1:Z:493:VAL:N	2.44	0.50
1:0:109:TRP:CD1	1:0:247:LEU:HD22	2.46	0.50
1:0:223:GLN:HB3	1:0:226:ARG:HB3	1.94	0.50
1:4:344:THR:N	1:4:345:GLY:HA3	2.25	0.50
1:4:492:ASP:OD1	1:4:493:VAL:N	2.44	0.50
1:5:337:GLU:HA	1:5:338:TRP:C	2.37	0.50
1:5:391:ARG:HH12	1:a:308:ILE:N	2.10	0.50
1:b:267:TYR:OH	1:b:477:GLY:O	2.29	0.50
1:b:337:GLU:HA	1:b:338:TRP:C	2.37	0.50
1:d:223:GLN:HB3	1:d:226:ARG:HB3	1.94	0.50
1:d:492:ASP:OD1	1:d:493:VAL:N	2.44	0.50
1:f:267:TYR:OH	1:f:477:GLY:O	2.29	0.50
1:g:116:CYS:HB2	1:g:119:VAL:HG23	1.92	0.50
1:h:364:VAL:HG21	1:h:539:ARG:HD3	1.93	0.50
1:j:117:TRP:HA	1:j:454:ILE:HD11	1.92	0.50
1:k:281:GLN:HG2	1:k:567:THR:HB	1.93	0.50
1:l:85:PHE:HD1	1:l:99:ASP:CB	2.22	0.50
1:m:358:ALA:HB2	1:m:399:GLU:HG3	1.93	0.50
1:o:492:ASP:OD1	1:o:493:VAL:N	2.44	0.50
1:p:407:TRP:HE3	1:p:410:LYS:HG2	1.76	0.50
1:q:337:GLU:HA	1:q:338:TRP:C	2.37	0.50
1:q:492:ASP:OD1	1:q:493:VAL:N	2.44	0.50
1:r:528:TRP:CB	1:s:246:PRO:CG	2.65	0.50
1:s:214:ASP:OD2	1:s:238:GLN:HB3	2.11	0.50
1:t:391:ARG:HH12	1:v:308:ILE:N	2.10	0.50
1:t:429:ARG:NH2	1:u:228:ASN:OD1	2.45	0.50
1:u:225:ASP:HB2	1:u:226:ARG:CB	2.36	0.50
1:u:528:TRP:CB	1:v:246:PRO:CG	2.65	0.50
1:v:109:TRP:CD1	1:v:247:LEU:HD22	2.46	0.50
1:w:228:ASN:OD1	1:x:429:ARG:NH2	2.44	0.50
1:z:528:TRP:CB	1:6:246:PRO:CG	2.65	0.50
1:6:109:TRP:CD1	1:6:247:LEU:HD22	2.46	0.50
1:6:407:TRP:HE3	1:6:410:LYS:HG2	1.76	0.50
1:7:109:TRP:CD1	1:7:247:LEU:HD22	2.46	0.50
1:A:59:HIS:HE1	1:A:515:LYS:NZ	2.09	0.50
1:A:153:VAL:HB	1:A:505:VAL:HG23	1.93	0.50
1:A:267:TYR:OH	1:A:477:GLY:O	2.29	0.50
1:C:528:TRP:HB3	1:1:246:PRO:HG3	1.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:492:ASP:OD1	1:D:493:VAL:N	2.44	0.50
1:E:289:CYS:HA	1:Q:212:HIS:CE1	2.47	0.50
1:F:59:HIS:HE1	1:F:515:LYS:NZ	2.09	0.50
1:F:390:MET:HA	1:F:391:ARG:HD2	1.94	0.50
1:G:107:THR:CG2	1:G:209:TYR:HD2	2.25	0.50
1:G:109:TRP:CD1	1:G:247:LEU:HD22	2.46	0.50
1:G:308:ILE:N	1:I:391:ARG:HH12	2.10	0.50
1:H:109:TRP:CD1	1:H:247:LEU:HD22	2.46	0.50
1:J:337:GLU:HA	1:J:338:TRP:C	2.37	0.50
1:K:59:HIS:HE1	1:K:515:LYS:HZ1	1.59	0.50
1:M:214:ASP:OD2	1:M:238:GLN:HB3	2.11	0.50
1:N:247:LEU:O	1:N:248:GLU:CB	2.42	0.50
1:N:390:MET:HA	1:N:391:ARG:HD2	1.94	0.50
1:O:228:ASN:OD1	1:h:429:ARG:NH2	2.44	0.50
1:P:66:ILE:HD12	1:P:510:PHE:HE1	1.75	0.50
1:P:492:ASP:OD1	1:P:493:VAL:N	2.44	0.50
1:S:528:TRP:CB	1:U:246:PRO:CG	2.65	0.50
1:T:223:GLN:HB3	1:T:226:ARG:HB3	1.94	0.50
1:T:308:ILE:N	1:3:391:ARG:HH12	2.09	0.50
1:U:153:VAL:HB	1:U:505:VAL:HG23	1.93	0.50
1:U:178:GLN:HE21	1:U:262:TRP:HH2	1.60	0.50
1:V:379:TYR:CD2	1:V:392:GLU:HG3	2.44	0.50
1:V:390:MET:HA	1:V:391:ARG:HD2	1.94	0.50
1:V:414:GLN:N	1:4:338:TRP:O	2.38	0.50
1:W:109:TRP:CD1	1:W:247:LEU:HD22	2.46	0.50
1:W:214:ASP:OD2	1:W:238:GLN:HB3	2.11	0.50
1:X:390:MET:HA	1:X:391:ARG:HD2	1.94	0.50
1:Z:59:HIS:HE1	1:Z:515:LYS:NZ	2.09	0.50
1:0:214:ASP:OD2	1:0:238:GLN:HB3	2.11	0.50
1:0:407:TRP:HE3	1:0:410:LYS:HG2	1.76	0.50
1:1:109:TRP:CD1	1:1:247:LEU:HD22	2.46	0.50
1:2:267:TYR:OH	1:2:477:GLY:O	2.29	0.50
1:3:117:TRP:HA	1:3:454:ILE:HD11	1.92	0.50
1:4:59:HIS:HE1	1:4:515:LYS:HZ1	1.59	0.50
1:5:117:TRP:HA	1:5:454:ILE:HD11	1.92	0.50
1:5:214:ASP:OD2	1:5:238:GLN:HB3	2.11	0.50
1:c:98:ASN:HA	1:e:323:SER:HG	1.77	0.50
1:c:246:PRO:HG3	1:e:528:TRP:HB3	1.86	0.50
1:c:337:GLU:HA	1:c:338:TRP:C	2.37	0.50
1:e:223:GLN:HB3	1:e:226:ARG:HB3	1.94	0.50
1:f:225:ASP:HB2	1:f:226:ARG:CB	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:281:GLN:HG2	1:g:567:THR:HB	1.93	0.50
1:i:117:TRP:HA	1:i:454:ILE:HD11	1.92	0.50
1:i:223:GLN:HB3	1:i:226:ARG:HB3	1.94	0.50
1:i:308:ILE:N	1:j:391:ARG:HH12	2.09	0.50
1:k:153:VAL:HB	1:k:505:VAL:HG23	1.93	0.50
1:k:528:TRP:CB	1:l:246:PRO:CG	2.65	0.50
1:l:214:ASP:OD2	1:l:238:GLN:HB3	2.11	0.50
1:l:390:MET:HA	1:l:391:ARG:HD2	1.94	0.50
1:n:212:HIS:CE1	1:p:289:CYS:HA	2.47	0.50
1:n:308:ILE:N	1:o:391:ARG:HH12	2.10	0.50
1:o:59:HIS:HE1	1:o:515:LYS:NZ	2.09	0.50
1:o:214:ASP:OD2	1:o:238:GLN:HB3	2.11	0.50
1:p:109:TRP:CD1	1:p:247:LEU:HD22	2.46	0.50
1:q:214:ASP:OD2	1:q:238:GLN:HB3	2.11	0.50
1:q:390:MET:HA	1:q:391:ARG:HD2	1.94	0.50
1:r:178:GLN:HE21	1:r:262:TRP:HH2	1.60	0.50
1:r:308:ILE:N	1:s:391:ARG:HH12	2.10	0.50
1:r:358:ALA:HB2	1:r:399:GLU:HG3	1.93	0.50
1:r:390:MET:HA	1:r:391:ARG:HD2	1.94	0.50
1:s:281:GLN:HG2	1:s:567:THR:HB	1.93	0.50
1:s:332:GLY:HA2	1:s:353:GLN:NE2	2.26	0.50
1:t:390:MET:HA	1:t:391:ARG:HD2	1.94	0.50
1:u:59:HIS:HE1	1:u:515:LYS:NZ	2.09	0.50
1:v:107:THR:CG2	1:v:209:TYR:HD2	2.25	0.50
1:w:109:TRP:CD1	1:w:247:LEU:HD22	2.46	0.50
1:z:59:HIS:HE1	1:z:515:LYS:NZ	2.09	0.50
1:z:109:TRP:CD1	1:z:247:LEU:HD22	2.46	0.50
1:6:153:VAL:HB	1:6:505:VAL:HG23	1.93	0.50
1:6:178:GLN:HE21	1:6:262:TRP:HH2	1.60	0.50
1:6:223:GLN:HB3	1:6:226:ARG:HB3	1.94	0.50
1:7:379:TYR:CD2	1:7:392:GLU:HG3	2.44	0.50
1:7:390:MET:HA	1:7:391:ARG:HD2	1.94	0.50
1:A:429:ARG:NH2	1:G:228:ASN:OD1	2.44	0.50
1:B:153:VAL:HB	1:B:505:VAL:HG23	1.92	0.50
1:B:439:TYR:CE1	1:J:469:ALA:CB	2.87	0.50
1:C:223:GLN:HB3	1:C:226:ARG:HB3	1.94	0.50
1:C:390:MET:HA	1:C:391:ARG:HD2	1.94	0.50
1:F:337:GLU:HA	1:F:338:TRP:C	2.37	0.50
1:G:316:ARG:HH22	1:I:98:ASN:HD22	1.58	0.50
1:G:429:ARG:NH2	1:I:228:ASN:OD1	2.45	0.50
1:J:344:THR:N	1:J:345:GLY:HA3	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:337:GLU:HA	1:L:338:TRP:C	2.37	0.50
1:L:364:VAL:HG21	1:L:539:ARG:HD3	1.93	0.50
1:N:178:GLN:HE21	1:N:262:TRP:HH2	1.60	0.50
1:O:153:VAL:HB	1:O:505:VAL:HG23	1.93	0.50
1:P:332:GLY:HA2	1:P:353:GLN:NE2	2.26	0.50
1:P:390:MET:HA	1:P:391:ARG:HD2	1.94	0.50
1:R:223:GLN:HB3	1:R:226:ARG:HB3	1.94	0.50
1:T:117:TRP:HA	1:T:454:ILE:HD11	1.92	0.50
1:T:391:ARG:HH12	1:f:308:ILE:N	2.09	0.50
1:V:223:GLN:HB3	1:V:226:ARG:HB3	1.94	0.50
1:X:212:HIS:CE1	1:4:289:CYS:HA	2.47	0.50
1:X:214:ASP:OD2	1:X:238:GLN:HB3	2.11	0.50
1:X:246:PRO:HG3	1:4:528:TRP:HB3	1.85	0.50
1:X:407:TRP:HE3	1:X:410:LYS:HG2	1.76	0.50
1:X:469:ALA:CB	1:4:439:TYR:CE1	2.86	0.50
1:Y:407:TRP:HE3	1:Y:410:LYS:HG2	1.77	0.50
1:0:390:MET:HA	1:0:391:ARG:HD2	1.94	0.50
1:2:308:ILE:N	1:i:391:ARG:HH12	2.09	0.50
1:3:308:ILE:N	1:f:391:ARG:HH12	2.09	0.50
1:4:42:ASN:ND2	1:b:252:ASN:OD1	2.45	0.50
1:5:252:ASN:OD1	1:t:42:ASN:ND2	2.44	0.50
1:5:267:TYR:OH	1:5:477:GLY:O	2.29	0.50
1:e:101:TYR:CZ	1:e:236:GLY:HA3	2.44	0.50
1:e:390:MET:HA	1:e:391:ARG:HD2	1.94	0.50
1:g:214:ASP:OD2	1:g:238:GLN:HB3	2.11	0.50
1:g:223:GLN:HB3	1:g:226:ARG:HB3	1.94	0.50
1:h:109:TRP:CD1	1:h:247:LEU:HD22	2.46	0.50
1:h:358:ALA:HB2	1:h:399:GLU:HG3	1.93	0.50
1:h:492:ASP:OD1	1:h:493:VAL:N	2.44	0.50
1:i:289:CYS:HA	1:j:212:HIS:CE1	2.47	0.50
1:l:153:VAL:HB	1:l:505:VAL:HG23	1.93	0.50
1:m:364:VAL:HG21	1:m:539:ARG:HD3	1.93	0.50
1:m:492:ASP:OD1	1:m:493:VAL:N	2.44	0.50
1:o:337:GLU:HA	1:o:338:TRP:C	2.37	0.50
1:r:492:ASP:OD1	1:r:493:VAL:N	2.44	0.50
1:s:117:TRP:HA	1:s:454:ILE:HD11	1.92	0.50
1:s:492:ASP:OD1	1:s:493:VAL:N	2.44	0.50
1:u:267:TYR:OH	1:u:477:GLY:O	2.29	0.50
1:w:214:ASP:OD2	1:w:238:GLN:HB3	2.11	0.50
1:7:223:GLN:HB3	1:7:226:ARG:HB3	1.94	0.50
1:B:212:HIS:CE1	1:L:289:CYS:HA	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:533:LEU:HD21	1:I:127:GLN:HE21	1.77	0.49
1:C:178:GLN:HE21	1:C:262:TRP:HH2	1.60	0.49
1:C:338:TRP:O	1:M:414:GLN:N	2.38	0.49
1:C:429:ARG:NH2	1:1:228:ASN:OD1	2.45	0.49
1:D:212:HIS:CE1	1:P:289:CYS:HA	2.47	0.49
1:D:267:TYR:OH	1:D:477:GLY:O	2.29	0.49
1:E:59:HIS:HE1	1:E:515:LYS:NZ	2.09	0.49
1:E:109:TRP:CD1	1:E:247:LEU:HD22	2.46	0.49
1:F:214:ASP:OD2	1:F:238:GLN:HB3	2.11	0.49
1:H:308:ILE:N	1:W:391:ARG:HH12	2.10	0.49
1:J:117:TRP:HA	1:J:454:ILE:HD11	1.92	0.49
1:J:153:VAL:HB	1:J:505:VAL:HG23	1.93	0.49
1:J:214:ASP:OD2	1:J:238:GLN:HB3	2.11	0.49
1:J:223:GLN:HB3	1:J:226:ARG:HB3	1.94	0.49
1:J:267:TYR:OH	1:J:477:GLY:O	2.29	0.49
1:M:101:TYR:CZ	1:M:236:GLY:HA3	2.44	0.49
1:N:289:CYS:HA	1:P:212:HIS:CE1	2.47	0.49
1:N:492:ASP:OD1	1:N:493:VAL:N	2.44	0.49
1:O:252:ASN:OD1	1:3:42:ASN:ND2	2.45	0.49
1:S:109:TRP:CD1	1:S:247:LEU:HD22	2.46	0.49
1:T:267:TYR:OH	1:T:477:GLY:O	2.29	0.49
1:T:289:CYS:HA	1:3:212:HIS:CE1	2.47	0.49
1:U:267:TYR:OH	1:U:477:GLY:O	2.29	0.49
1:U:358:ALA:HB2	1:U:399:GLU:HG3	1.93	0.49
1:U:407:TRP:HE3	1:U:410:LYS:HG2	1.77	0.49
1:Z:228:ASN:OD1	1:w:429:ARG:NH2	2.44	0.49
1:1:223:GLN:HB3	1:1:226:ARG:HB3	1.94	0.49
1:2:289:CYS:HA	1:i:212:HIS:CE1	2.47	0.49
1:2:492:ASP:OD1	1:2:493:VAL:N	2.44	0.49
1:3:379:TYR:CD2	1:3:392:GLU:HG3	2.44	0.49
1:c:109:TRP:CD1	1:c:247:LEU:HD22	2.46	0.49
1:c:228:ASN:OD1	1:e:429:ARG:NH2	2.44	0.49
1:d:214:ASP:OD2	1:d:238:GLN:HB3	2.11	0.49
1:e:281:GLN:HG2	1:e:567:THR:HB	1.93	0.49
1:f:59:HIS:HE1	1:f:515:LYS:NZ	2.09	0.49
1:f:337:GLU:HA	1:f:338:TRP:C	2.37	0.49
1:f:492:ASP:O	1:h:65:HIS:NE2	2.42	0.49
1:g:153:VAL:HB	1:g:505:VAL:HG23	1.93	0.49
1:k:59:HIS:HE1	1:k:515:LYS:NZ	2.09	0.49
1:l:223:GLN:HB3	1:l:226:ARG:HB3	1.94	0.49
1:l:281:GLN:HG2	1:l:567:THR:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:109:TRP:CD1	1:m:247:LEU:HD22	2.46	0.49
1:p:59:HIS:HE1	1:p:515:LYS:NZ	2.09	0.49
1:q:212:HIS:CE1	1:s:289:CYS:HA	2.47	0.49
1:s:390:MET:HA	1:s:391:ARG:HD2	1.94	0.49
1:t:98:ASN:HD22	1:v:316:ARG:HH22	1.58	0.49
1:u:100:SER:O	1:u:100:SER:OG	2.23	0.49
1:u:289:CYS:HA	1:v:212:HIS:CE1	2.47	0.49
1:w:156:THR:O	1:w:163:THR:OG1	2.25	0.49
1:6:358:ALA:HB2	1:6:399:GLU:HG3	1.93	0.49
1:A:223:GLN:HB3	1:A:226:ARG:HB3	1.94	0.49
1:B:59:HIS:HE1	1:B:515:LYS:NZ	2.09	0.49
1:C:212:HIS:CE1	1:M:289:CYS:HA	2.47	0.49
1:C:281:GLN:HG2	1:C:567:THR:HB	1.93	0.49
1:C:344:THR:N	1:C:345:GLY:HA3	2.25	0.49
1:C:492:ASP:OD1	1:C:493:VAL:N	2.44	0.49
1:D:120:TRP:CZ3	1:D:516:MET:HG2	2.48	0.49
1:D:390:MET:HA	1:D:391:ARG:HD2	1.94	0.49
1:F:379:TYR:CD2	1:F:392:GLU:HG3	2.44	0.49
1:F:391:ARG:HH12	1:Q:308:ILE:N	2.10	0.49
1:H:289:CYS:HA	1:W:212:HIS:CE1	2.47	0.49
1:J:429:ARG:NH2	1:L:228:ASN:OD1	2.44	0.49
1:K:289:CYS:HA	1:0:212:HIS:CE1	2.47	0.49
1:L:153:VAL:HB	1:L:505:VAL:HG23	1.93	0.49
1:L:178:GLN:HE21	1:L:262:TRP:HH2	1.60	0.49
1:M:338:TRP:O	1:1:414:GLN:N	2.37	0.49
1:N:59:HIS:HE1	1:N:515:LYS:NZ	2.09	0.49
1:O:59:HIS:HE1	1:O:515:LYS:NZ	2.09	0.49
1:O:308:ILE:N	1:g:391:ARG:HH12	2.10	0.49
1:O:332:GLY:HA2	1:O:353:GLN:NE2	2.26	0.49
1:P:117:TRP:HA	1:P:454:ILE:HD11	1.92	0.49
1:Q:364:VAL:HG21	1:Q:539:ARG:HD3	1.93	0.49
1:R:153:VAL:HB	1:R:505:VAL:HG23	1.93	0.49
1:S:364:VAL:HG21	1:S:539:ARG:HD3	1.93	0.49
1:T:212:HIS:CE1	1:f:289:CYS:HA	2.47	0.49
1:V:244:PHE:HE2	1:V:246:PRO:HB3	1.63	0.49
1:V:337:GLU:HA	1:V:338:TRP:C	2.37	0.49
1:W:429:ARG:NH2	1:Y:228:ASN:OD1	2.45	0.49
1:W:533:LEU:HD21	1:X:127:GLN:HE21	1.77	0.49
1:X:379:TYR:CD2	1:X:392:GLU:HG3	2.44	0.49
1:Y:364:VAL:HG21	1:Y:539:ARG:HD3	1.93	0.49
1:Z:364:VAL:HG21	1:Z:539:ARG:HD3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:358:ALA:HB2	1:1:399:GLU:HG3	1.93	0.49
1:1:407:TRP:HE3	1:1:410:LYS:HG2	1.77	0.49
1:2:59:HIS:HE1	1:2:515:LYS:NZ	2.09	0.49
1:2:225:ASP:HB2	1:2:226:ARG:CB	2.36	0.49
1:2:337:GLU:HA	1:2:338:TRP:C	2.37	0.49
1:2:391:ARG:HH12	1:j:308:ILE:N	2.10	0.49
1:3:107:THR:CG2	1:3:209:TYR:HD2	2.25	0.49
1:5:492:ASP:OD1	1:5:493:VAL:N	2.44	0.49
1:a:153:VAL:HB	1:a:505:VAL:HG23	1.93	0.49
1:a:178:GLN:HE21	1:a:262:TRP:HH2	1.60	0.49
1:b:153:VAL:HB	1:b:505:VAL:HG23	1.93	0.49
1:b:364:VAL:HG21	1:b:539:ARG:HD3	1.93	0.49
1:h:59:HIS:HE1	1:h:515:LYS:NZ	2.09	0.49
1:h:223:GLN:HB3	1:h:226:ARG:HB3	1.94	0.49
1:j:101:TYR:CZ	1:j:236:GLY:HA3	2.44	0.49
1:j:379:TYR:CD2	1:j:392:GLU:HG3	2.44	0.49
1:k:101:TYR:CZ	1:k:236:GLY:HA3	2.44	0.49
1:k:228:ASN:OD1	1:m:429:ARG:NH2	2.45	0.49
1:k:247:LEU:O	1:k:248:GLU:CB	2.42	0.49
1:k:308:ILE:N	1:l:391:ARG:HH12	2.10	0.49
1:k:332:GLY:HA2	1:k:353:GLN:NE2	2.26	0.49
1:l:225:ASP:HB2	1:l:226:ARG:CB	2.36	0.49
1:m:59:HIS:HE1	1:m:515:LYS:NZ	2.09	0.49
1:n:98:ASN:HD22	1:p:316:ARG:HH22	1.58	0.49
1:n:337:GLU:HA	1:n:338:TRP:C	2.37	0.49
1:n:407:TRP:HE3	1:n:410:LYS:HG2	1.77	0.49
1:p:364:VAL:HG21	1:p:539:ARG:HD3	1.93	0.49
1:q:267:TYR:OH	1:q:477:GLY:O	2.29	0.49
1:r:59:HIS:HE1	1:r:515:LYS:NZ	2.09	0.49
1:r:109:TRP:CD1	1:r:247:LEU:HD22	2.46	0.49
1:t:228:ASN:OD1	1:v:429:ARG:NH2	2.45	0.49
1:u:107:THR:CG2	1:u:209:TYR:HD2	2.25	0.49
1:u:429:ARG:NH2	1:v:228:ASN:OD1	2.45	0.49
1:w:178:GLN:HE21	1:w:262:TRP:HH2	1.60	0.49
1:w:212:HIS:CE1	1:x:289:CYS:HA	2.47	0.49
1:w:391:ARG:HH12	1:x:308:ILE:N	2.10	0.49
1:x:109:TRP:CD1	1:x:247:LEU:HD22	2.46	0.49
1:y:153:VAL:HB	1:y:505:VAL:HG23	1.93	0.49
1:y:289:CYS:HA	1:z:212:HIS:CE1	2.47	0.49
1:z:214:ASP:OD2	1:z:238:GLN:HB3	2.11	0.49
1:z:364:VAL:HG21	1:z:539:ARG:HD3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:267:TYR:OH	1:6:477:GLY:O	2.29	0.49
1:A:107:THR:CG2	1:A:209:TYR:HD2	2.25	0.49
1:A:212:HIS:CE1	1:I:289:CYS:HA	2.46	0.49
1:B:252:ASN:OD1	1:C:42:ASN:ND2	2.45	0.49
1:B:337:GLU:HA	1:B:338:TRP:C	2.37	0.49
1:B:492:ASP:OD1	1:B:493:VAL:N	2.44	0.49
1:D:289:CYS:HA	1:N:212:HIS:CE1	2.47	0.49
1:D:439:TYR:CE1	1:N:469:ALA:CB	2.86	0.49
1:E:228:ASN:OD1	1:F:429:ARG:NH2	2.44	0.49
1:E:364:VAL:HG21	1:E:539:ARG:HD3	1.93	0.49
1:G:364:VAL:HG21	1:G:539:ARG:HD3	1.93	0.49
1:H:364:VAL:HG21	1:H:539:ARG:HD3	1.93	0.49
1:J:225:ASP:HB2	1:J:226:ARG:CB	2.36	0.49
1:K:308:ILE:N	1:0:391:ARG:HH12	2.10	0.49
1:L:332:GLY:HA2	1:L:353:GLN:NE2	2.26	0.49
1:M:407:TRP:HE3	1:M:410:LYS:HG2	1.76	0.49
1:N:109:TRP:CD1	1:N:247:LEU:HD22	2.46	0.49
1:O:107:THR:CG2	1:O:209:TYR:HD2	2.25	0.49
1:O:390:MET:HA	1:O:391:ARG:HD2	1.94	0.49
1:Q:178:GLN:HE21	1:Q:262:TRP:HH2	1.60	0.49
1:Q:407:TRP:HE3	1:Q:410:LYS:HG2	1.77	0.49
1:R:289:CYS:HA	1:S:212:HIS:CE1	2.47	0.49
1:S:214:ASP:OD2	1:S:238:GLN:HB3	2.11	0.49
1:T:390:MET:HA	1:T:391:ARG:HD2	1.94	0.49
1:V:342:TYR:H	1:X:411:ASN:HD22	1.61	0.49
1:V:439:TYR:CE1	1:4:469:ALA:CB	2.86	0.49
1:W:156:THR:O	1:W:163:THR:OG1	2.25	0.49
1:W:379:TYR:CD2	1:W:392:GLU:HG3	2.44	0.49
1:Z:212:HIS:CE1	1:w:289:CYS:HA	2.47	0.49
1:0:127:GLN:HE21	1:w:533:LEU:HD21	1.77	0.49
1:0:411:ASN:HD22	1:7:342:TYR:H	1.61	0.49
1:3:223:GLN:HB3	1:3:226:ARG:HB3	1.94	0.49
1:5:153:VAL:HB	1:5:505:VAL:HG23	1.93	0.49
1:5:223:GLN:HB3	1:5:226:ARG:HB3	1.94	0.49
1:5:342:TYR:H	1:a:411:ASN:HD22	1.60	0.49
1:5:344:THR:N	1:5:345:GLY:HA3	2.26	0.49
1:a:337:GLU:HA	1:a:338:TRP:C	2.37	0.49
1:a:390:MET:HA	1:a:391:ARG:HD2	1.94	0.49
1:a:492:ASP:OD1	1:a:493:VAL:N	2.44	0.49
1:b:178:GLN:HE21	1:b:262:TRP:HH2	1.60	0.49
1:c:223:GLN:HB3	1:c:226:ARG:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:407:TRP:HE3	1:c:410:LYS:HG2	1.77	0.49
1:d:101:TYR:CZ	1:d:236:GLY:HA3	2.44	0.49
1:d:281:GLN:HG2	1:d:567:THR:HB	1.93	0.49
1:d:289:CYS:HA	1:e:212:HIS:CE1	2.47	0.49
1:e:178:GLN:HE21	1:e:262:TRP:HH2	1.60	0.49
1:e:492:ASP:OD1	1:e:493:VAL:N	2.44	0.49
1:f:492:ASP:OD1	1:f:493:VAL:N	2.44	0.49
1:g:289:CYS:HA	1:h:212:HIS:CE1	2.47	0.49
1:i:267:TYR:OH	1:i:477:GLY:O	2.29	0.49
1:j:214:ASP:OD2	1:j:238:GLN:HB3	2.11	0.49
1:k:107:THR:CG2	1:k:209:TYR:HD2	2.25	0.49
1:k:390:MET:HA	1:k:391:ARG:HD2	1.94	0.49
1:l:289:CYS:HA	1:m:212:HIS:CE1	2.47	0.49
1:n:364:VAL:HG21	1:n:539:ARG:HD3	1.93	0.49
1:n:390:MET:HA	1:n:391:ARG:HD2	1.94	0.49
1:o:379:TYR:CD2	1:o:392:GLU:HG3	2.44	0.49
1:q:98:ASN:HD22	1:s:316:ARG:HH22	1.58	0.49
1:q:120:TRP:CZ3	1:q:516:MET:HG2	2.48	0.49
1:q:289:CYS:HA	1:r:212:HIS:CE1	2.47	0.49
1:q:439:TYR:CE1	1:r:469:ALA:CB	2.86	0.49
1:q:469:ALA:CB	1:s:439:TYR:CE1	2.86	0.49
1:r:289:CYS:HA	1:s:212:HIS:CE1	2.47	0.49
1:t:308:ILE:N	1:u:391:ARG:HH12	2.09	0.49
1:u:223:GLN:HB3	1:u:226:ARG:HB3	1.94	0.49
1:u:358:ALA:HB2	1:u:399:GLU:HG3	1.93	0.49
1:v:127:GLN:HE21	1:x:533:LEU:HD21	1.77	0.49
1:w:101:TYR:CZ	1:w:236:GLY:HA3	2.44	0.49
1:x:178:GLN:HE21	1:x:262:TRP:HH2	1.60	0.49
1:x:223:GLN:HB3	1:x:226:ARG:HB3	1.94	0.49
1:y:214:ASP:OD2	1:y:238:GLN:HB3	2.11	0.49
1:y:223:GLN:HB3	1:y:226:ARG:HB3	1.94	0.49
1:z:101:TYR:CZ	1:z:236:GLY:HA3	2.44	0.49
1:z:289:CYS:HA	1:6:212:HIS:CE1	2.47	0.49
1:A:42:ASN:ND2	1:E:252:ASN:OD1	2.46	0.49
1:A:358:ALA:HB2	1:A:399:GLU:HG3	1.93	0.49
1:B:178:GLN:HE21	1:B:262:TRP:HH2	1.60	0.49
1:B:390:MET:HA	1:B:391:ARG:HD2	1.94	0.49
1:D:98:ASN:HD22	1:P:316:ARG:HH22	1.58	0.49
1:E:178:GLN:HE21	1:E:262:TRP:HH2	1.60	0.49
1:G:289:CYS:HA	1:I:212:HIS:CE1	2.47	0.49
1:G:358:ALA:HB2	1:G:399:GLU:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:178:GLN:HE21	1:H:262:TRP:HH2	1.60	0.49
1:H:223:GLN:HB3	1:H:226:ARG:HB3	1.94	0.49
1:H:267:TYR:OH	1:H:477:GLY:O	2.29	0.49
1:J:492:ASP:OD1	1:J:493:VAL:N	2.44	0.49
1:K:411:ASN:HD22	1:0:342:TYR:H	1.61	0.49
1:O:101:TYR:CZ	1:O:236:GLY:HA3	2.44	0.49
1:P:120:TRP:CZ3	1:P:516:MET:HG2	2.48	0.49
1:Q:337:GLU:HA	1:Q:338:TRP:C	2.37	0.49
1:Q:390:MET:HA	1:Q:391:ARG:HD2	1.94	0.49
1:R:100:SER:O	1:R:100:SER:OG	2.23	0.49
1:R:212:HIS:CE1	1:U:289:CYS:HA	2.47	0.49
1:R:214:ASP:OD2	1:R:238:GLN:HB3	2.11	0.49
1:R:342:TYR:H	1:U:411:ASN:HD22	1.60	0.49
1:S:407:TRP:HE3	1:S:410:LYS:HG2	1.76	0.49
1:V:212:HIS:CE1	1:X:289:CYS:HA	2.47	0.49
1:V:358:ALA:HB2	1:V:399:GLU:HG3	1.93	0.49
1:W:127:GLN:HE21	1:X:533:LEU:HD21	1.77	0.49
1:Y:153:VAL:HB	1:Y:505:VAL:HG23	1.93	0.49
1:Z:316:ARG:HH22	1:x:98:ASN:HD22	1.58	0.49
1:Z:411:ASN:HD22	1:x:342:TYR:H	1.61	0.49
1:0:533:LEU:HD21	1:w:127:GLN:HE21	1.77	0.49
1:1:37:SER:CB	1:i:257:ARG:CG	2.73	0.49
1:1:114:ALA:HB1	1:1:120:TRP:NE1	2.28	0.49
1:3:101:TYR:CZ	1:3:236:GLY:HA3	2.44	0.49
1:3:120:TRP:CZ3	1:3:516:MET:HG2	2.48	0.49
1:3:127:GLN:HE21	1:h:533:LEU:HD21	1.77	0.49
1:5:225:ASP:HB2	1:5:226:ARG:CB	2.36	0.49
1:5:413:HIS:HA	1:b:339:GLN:HA	1.94	0.49
1:a:59:HIS:HE1	1:a:515:LYS:NZ	2.09	0.49
1:a:101:TYR:CZ	1:a:236:GLY:HA3	2.44	0.49
1:b:332:GLY:HA2	1:b:353:GLN:NE2	2.26	0.49
1:c:358:ALA:HB2	1:c:399:GLU:HG3	1.93	0.49
1:d:407:TRP:HE3	1:d:410:LYS:HG2	1.76	0.49
1:e:344:THR:N	1:e:345:GLY:HA3	2.25	0.49
1:f:252:ASN:OD1	1:h:42:ASN:ND2	2.46	0.49
1:g:120:TRP:CZ3	1:g:516:MET:HG2	2.48	0.49
1:i:101:TYR:CZ	1:i:236:GLY:HA3	2.44	0.49
1:i:390:MET:HA	1:i:391:ARG:HD2	1.94	0.49
1:j:107:THR:CG2	1:j:209:TYR:HD2	2.25	0.49
1:j:223:GLN:HB3	1:j:226:ARG:HB3	1.94	0.49
1:l:101:TYR:CZ	1:l:236:GLY:HA3	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:120:TRP:CZ3	1:l:516:MET:HG2	2.48	0.49
1:m:223:GLN:HB3	1:m:226:ARG:HB3	1.94	0.49
1:o:429:ARG:NH2	1:p:228:ASN:OD1	2.44	0.49
1:p:178:GLN:HE21	1:p:262:TRP:HH2	1.60	0.49
1:p:252:ASN:OD1	1:u:42:ASN:ND2	2.46	0.49
1:r:247:LEU:O	1:r:248:GLU:CB	2.42	0.49
1:s:120:TRP:CZ3	1:s:516:MET:HG2	2.48	0.49
1:t:212:HIS:CE1	1:v:289:CYS:HA	2.47	0.49
1:u:379:TYR:CD2	1:u:392:GLU:HG3	2.44	0.49
1:w:246:PRO:CG	1:x:528:TRP:CB	2.65	0.49
1:z:407:TRP:HE3	1:z:410:LYS:HG2	1.77	0.49
1:7:337:GLU:HA	1:7:338:TRP:C	2.37	0.49
1:A:59:HIS:HE1	1:A:515:LYS:HZ1	1.61	0.49
1:A:228:ASN:OD1	1:I:429:ARG:NH2	2.45	0.49
1:C:114:ALA:HB1	1:C:120:TRP:NE1	2.28	0.49
1:C:308:ILE:N	1:1:391:ARG:HH12	2.10	0.49
1:C:358:ALA:HB2	1:C:399:GLU:HG3	1.93	0.49
1:D:101:TYR:CZ	1:D:236:GLY:HA3	2.44	0.49
1:D:411:ASN:HD22	1:N:342:TYR:H	1.60	0.49
1:E:341:HIS:HE2	1:F:406:ASP:CG	2.16	0.49
1:F:358:ALA:HB2	1:F:399:GLU:HG3	1.93	0.49
1:G:96:THR:HG21	1:G:221:ILE:CG1	2.43	0.49
1:G:411:ASN:HD22	1:I:342:TYR:H	1.61	0.49
1:H:98:ASN:HD22	1:Y:316:ARG:HH22	1.58	0.49
1:H:244:PHE:HE2	1:H:246:PRO:HB3	1.63	0.49
1:I:178:GLN:HE21	1:I:262:TRP:HH2	1.60	0.49
1:J:316:ARG:HH22	1:L:98:ASN:HD22	1.58	0.49
1:K:42:ASN:ND2	1:L:252:ASN:OD1	2.46	0.49
1:M:114:ALA:HB1	1:M:120:TRP:NE1	2.28	0.49
1:M:281:GLN:HG2	1:M:567:THR:HB	1.93	0.49
1:M:337:GLU:HA	1:M:338:TRP:C	2.37	0.49
1:O:120:TRP:CZ3	1:O:516:MET:HG2	2.48	0.49
1:Q:107:THR:CG2	1:Q:209:TYR:HD2	2.25	0.49
1:Q:109:TRP:CD1	1:Q:247:LEU:HD22	2.46	0.49
1:Q:114:ALA:HB1	1:Q:120:TRP:NE1	2.28	0.49
1:Q:120:TRP:CZ3	1:Q:516:MET:HG2	2.48	0.49
1:S:289:CYS:HA	1:U:212:HIS:CE1	2.47	0.49
1:S:439:TYR:CE1	1:U:469:ALA:CB	2.87	0.49
1:T:101:TYR:CZ	1:T:236:GLY:HA3	2.44	0.49
1:U:337:GLU:HA	1:U:338:TRP:C	2.37	0.49
1:W:101:TYR:CZ	1:W:236:GLY:HA3	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:178:GLN:HE21	1:W:262:TRP:HH2	1.60	0.49
1:W:289:CYS:HA	1:Y:212:HIS:CE1	2.47	0.49
1:X:42:ASN:ND2	1:Y:252:ASN:OD1	2.46	0.49
1:X:100:SER:O	1:X:100:SER:OG	2.23	0.49
1:X:342:TYR:H	1:4:411:ASN:HD22	1.61	0.49
1:Z:153:VAL:HB	1:Z:505:VAL:HG23	1.93	0.49
1:0:289:CYS:HA	1:7:212:HIS:CE1	2.47	0.49
1:2:246:PRO:HG3	1:j:528:TRP:HB3	1.86	0.49
1:3:214:ASP:OD2	1:3:238:GLN:HB3	2.11	0.49
1:3:337:GLU:HA	1:3:338:TRP:C	2.37	0.49
1:5:469:ALA:CB	1:a:439:TYR:CE1	2.87	0.49
1:a:252:ASN:OD1	1:e:42:ASN:ND2	2.46	0.49
1:a:529:ASN:O	1:t:124:ALA:HB2	2.12	0.49
1:b:407:TRP:HE3	1:b:410:LYS:HG2	1.77	0.49
1:c:114:ALA:HB1	1:c:120:TRP:NE1	2.28	0.49
1:c:414:GLN:N	1:d:338:TRP:O	2.37	0.49
1:d:114:ALA:HB1	1:d:120:TRP:NE1	2.28	0.49
1:e:107:THR:CG2	1:e:209:TYR:HD2	2.25	0.49
1:e:114:ALA:HB1	1:e:120:TRP:NE1	2.28	0.49
1:f:281:GLN:HG2	1:f:567:THR:HB	1.93	0.49
1:i:214:ASP:OD2	1:i:238:GLN:HB3	2.11	0.49
1:j:120:TRP:CZ3	1:j:516:MET:HG2	2.48	0.49
1:j:337:GLU:HA	1:j:338:TRP:C	2.37	0.49
1:k:96:THR:HG21	1:k:221:ILE:CG1	2.43	0.49
1:n:107:THR:CG2	1:n:209:TYR:HD2	2.25	0.49
1:n:114:ALA:HB1	1:n:120:TRP:NE1	2.28	0.49
1:n:178:GLN:HE21	1:n:262:TRP:HH2	1.60	0.49
1:o:120:TRP:CZ3	1:o:516:MET:HG2	2.48	0.49
1:o:344:THR:N	1:o:345:GLY:HA3	2.25	0.49
1:p:267:TYR:OH	1:p:477:GLY:O	2.29	0.49
1:q:101:TYR:CZ	1:q:236:GLY:HA3	2.44	0.49
1:r:379:TYR:CD2	1:r:392:GLU:HG3	2.44	0.49
1:t:267:TYR:OH	1:t:477:GLY:O	2.29	0.49
1:t:342:TYR:H	1:v:411:ASN:HD22	1.61	0.49
1:u:308:ILE:N	1:v:391:ARG:HH12	2.09	0.49
1:v:358:ALA:HB2	1:v:399:GLU:HG3	1.93	0.49
1:v:364:VAL:HG21	1:v:539:ARG:HD3	1.93	0.49
1:x:101:TYR:CZ	1:x:236:GLY:HA3	2.44	0.49
1:x:267:TYR:OH	1:x:477:GLY:O	2.29	0.49
1:y:212:HIS:CE1	1:6:289:CYS:HA	2.47	0.49
1:y:342:TYR:H	1:6:411:ASN:HD22	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:59:HIS:HE1	1:6:515:LYS:HZ1	1.59	0.49
1:7:358:ALA:HB2	1:7:399:GLU:HG3	1.93	0.49
1:A:178:GLN:HE21	1:A:262:TRP:HH2	1.60	0.49
1:A:533:LEU:HD21	1:F:127:GLN:HE21	1.77	0.49
1:B:101:TYR:CZ	1:B:236:GLY:HA3	2.44	0.49
1:B:407:TRP:HE3	1:B:410:LYS:HG2	1.77	0.49
1:E:342:TYR:H	1:F:411:ASN:HD22	1.61	0.49
1:E:411:ASN:HD22	1:Q:342:TYR:H	1.60	0.49
1:F:120:TRP:CZ3	1:F:516:MET:HG2	2.48	0.49
1:F:212:HIS:CE1	1:Q:289:CYS:HA	2.47	0.49
1:F:344:THR:N	1:F:345:GLY:HA3	2.25	0.49
1:F:453:ALA:O	1:F:472:PRO:HD2	2.13	0.49
1:G:127:GLN:HE21	1:H:533:LEU:HD21	1.78	0.49
1:G:223:GLN:HB3	1:G:226:ARG:HB3	1.94	0.49
1:H:101:TYR:CZ	1:H:236:GLY:HA3	2.44	0.49
1:H:342:TYR:H	1:Y:411:ASN:HD22	1.61	0.49
1:I:267:TYR:OH	1:I:477:GLY:O	2.29	0.49
1:J:308:ILE:N	1:L:391:ARG:HH12	2.10	0.49
1:K:358:ALA:HB2	1:K:399:GLU:HG3	1.93	0.49
1:L:96:THR:HG21	1:L:221:ILE:CG1	2.43	0.49
1:L:407:TRP:HE3	1:L:410:LYS:HG2	1.76	0.49
1:N:332:GLY:HA2	1:N:353:GLN:NE2	2.26	0.49
1:O:96:THR:HG21	1:O:221:ILE:CG1	2.43	0.49
1:O:114:ALA:HB1	1:O:120:TRP:NE1	2.28	0.49
1:Q:42:ASN:ND2	1:S:252:ASN:OD1	2.46	0.49
1:S:101:TYR:CZ	1:S:236:GLY:HA3	2.44	0.49
1:S:127:GLN:HE21	1:T:533:LEU:HD21	1.78	0.49
1:S:533:LEU:HD21	1:T:127:GLN:HE21	1.77	0.49
1:T:225:ASP:HB2	1:T:226:ARG:CB	2.36	0.49
1:U:120:TRP:CZ3	1:U:516:MET:HG2	2.48	0.49
1:V:120:TRP:CZ3	1:V:516:MET:HG2	2.48	0.49
1:W:120:TRP:CZ3	1:W:516:MET:HG2	2.48	0.49
1:W:332:GLY:HA2	1:W:353:GLN:NE2	2.26	0.49
1:W:337:GLU:HA	1:W:338:TRP:C	2.37	0.49
1:X:391:ARG:HH12	1:4:308:ILE:N	2.10	0.49
1:Y:223:GLN:HB3	1:Y:226:ARG:HB3	1.94	0.49
1:1:390:MET:HA	1:1:391:ARG:HD2	1.94	0.49
1:2:96:THR:HG21	1:2:221:ILE:CG1	2.43	0.49
1:2:281:GLN:HG2	1:2:567:THR:HB	1.93	0.49
1:4:127:GLN:HE21	1:5:533:LEU:HD21	1.77	0.49
1:a:120:TRP:CZ3	1:a:516:MET:HG2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:267:TYR:OH	1:a:477:GLY:O	2.29	0.49
1:a:407:TRP:HE3	1:a:410:LYS:HG2	1.77	0.49
1:b:96:THR:HG21	1:b:221:ILE:CG1	2.43	0.49
1:c:214:ASP:OD2	1:c:238:GLN:HB3	2.11	0.49
1:c:391:ARG:HH12	1:e:308:ILE:N	2.10	0.49
1:d:337:GLU:HA	1:d:338:TRP:C	2.37	0.49
1:e:358:ALA:HB2	1:e:399:GLU:HG3	1.93	0.49
1:g:308:ILE:N	1:h:391:ARG:HH12	2.10	0.49
1:g:379:TYR:CD2	1:g:392:GLU:HG3	2.44	0.49
1:i:127:GLN:HE21	1:z:533:LEU:HD21	1.77	0.49
1:k:120:TRP:CZ3	1:k:516:MET:HG2	2.48	0.49
1:n:120:TRP:CZ3	1:n:516:MET:HG2	2.48	0.49
1:o:358:ALA:HB2	1:o:399:GLU:HG3	1.93	0.49
1:p:358:ALA:HB2	1:p:399:GLU:HG3	1.93	0.49
1:r:267:TYR:OH	1:r:477:GLY:O	2.29	0.49
1:t:178:GLN:HE21	1:t:262:TRP:HH2	1.60	0.49
1:t:289:CYS:HA	1:u:212:HIS:CE1	2.47	0.49
1:v:96:THR:HG21	1:v:221:ILE:CG1	2.43	0.49
1:w:42:ASN:ND2	1:7:252:ASN:OD1	2.46	0.49
1:w:120:TRP:CZ3	1:w:516:MET:HG2	2.48	0.49
1:w:379:TYR:CD2	1:w:392:GLU:HG3	2.44	0.49
1:x:364:VAL:HG21	1:x:539:ARG:HD3	1.93	0.49
1:7:117:TRP:HA	1:7:454:ILE:HD11	1.92	0.49
1:A:192:TYR:CD1	1:I:310:CYS:HB3	2.48	0.49
1:A:289:CYS:HA	1:G:212:HIS:CE1	2.48	0.49
1:A:332:GLY:HA2	1:A:353:GLN:NE2	2.26	0.49
1:B:120:TRP:CZ3	1:B:516:MET:HG2	2.48	0.49
1:B:267:TYR:OH	1:B:477:GLY:O	2.29	0.49
1:C:107:THR:CG2	1:C:209:TYR:HD2	2.25	0.49
1:C:289:CYS:HA	1:1:212:HIS:CE1	2.47	0.49
1:D:358:ALA:HB2	1:D:399:GLU:HG3	1.93	0.49
1:E:109:TRP:CZ3	1:E:485:LYS:HB2	2.48	0.49
1:E:120:TRP:CZ3	1:E:516:MET:HG2	2.48	0.49
1:E:267:TYR:OH	1:E:477:GLY:O	2.29	0.49
1:F:47:PHE:HE2	1:F:128:GLN:HB3	1.78	0.49
1:F:96:THR:HG21	1:F:221:ILE:CG1	2.43	0.49
1:F:407:TRP:HE3	1:F:410:LYS:HG2	1.76	0.49
1:G:59:HIS:HE1	1:G:515:LYS:HZ1	1.61	0.49
1:J:47:PHE:HE2	1:J:128:GLN:HB3	1.78	0.49
1:J:66:ILE:HD11	1:J:206:LEU:HD22	1.95	0.49
1:J:96:THR:HG21	1:J:221:ILE:CG1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:533:LEU:HD21	1:K:127:GLN:HE21	1.77	0.49
1:K:469:ALA:CB	1:7:439:TYR:CE1	2.86	0.49
1:L:107:THR:CG2	1:L:209:TYR:HD2	2.25	0.49
1:L:120:TRP:CZ3	1:L:516:MET:HG2	2.48	0.49
1:M:120:TRP:CZ3	1:M:516:MET:HG2	2.48	0.49
1:P:42:ASN:ND2	1:Q:252:ASN:OD1	2.46	0.49
1:P:178:GLN:HE21	1:P:262:TRP:HH2	1.60	0.49
1:Q:223:GLN:HB3	1:Q:226:ARG:HB3	1.94	0.49
1:S:308:ILE:N	1:U:391:ARG:HH12	2.10	0.49
1:T:214:ASP:OD2	1:T:238:GLN:HB3	2.11	0.49
1:U:453:ALA:O	1:U:472:PRO:HD2	2.13	0.49
1:V:117:TRP:HA	1:V:454:ILE:HD11	1.92	0.49
1:V:252:ASN:OD1	1:W:42:ASN:ND2	2.46	0.49
1:Y:107:THR:CG2	1:Y:209:TYR:HD2	2.25	0.49
1:Y:120:TRP:CZ3	1:Y:516:MET:HG2	2.48	0.49
1:Z:66:ILE:HD11	1:Z:206:LEU:HD22	1.95	0.49
1:Z:107:THR:CG2	1:Z:209:TYR:HD2	2.25	0.49
1:Z:223:GLN:HB3	1:Z:226:ARG:HB3	1.94	0.49
1:Z:252:ASN:OD1	1:0:42:ASN:ND2	2.46	0.49
1:0:120:TRP:CZ3	1:0:516:MET:HG2	2.48	0.49
1:2:47:PHE:HE2	1:2:128:GLN:HB3	1.78	0.49
1:3:114:ALA:HB1	1:3:120:TRP:NE1	2.28	0.49
1:4:47:PHE:HE2	1:4:128:GLN:HB3	1.78	0.49
1:4:358:ALA:HB2	1:4:399:GLU:HG3	1.93	0.49
1:5:47:PHE:HE2	1:5:128:GLN:HB3	1.78	0.49
1:5:66:ILE:HD11	1:5:206:LEU:HD22	1.95	0.49
1:c:212:HIS:CE1	1:e:289:CYS:HA	2.47	0.49
1:c:390:MET:HA	1:c:391:ARG:HD2	1.94	0.49
1:d:453:ALA:O	1:d:472:PRO:HD2	2.13	0.49
1:e:47:PHE:HE2	1:e:128:GLN:HB3	1.78	0.49
1:f:47:PHE:HE2	1:f:128:GLN:HB3	1.78	0.49
1:f:114:ALA:HB1	1:f:120:TRP:NE1	2.28	0.49
1:g:101:TYR:CZ	1:g:236:GLY:HA3	2.44	0.49
1:g:492:ASP:OD1	1:g:493:VAL:N	2.44	0.49
1:g:533:LEU:HD21	1:l:127:GLN:HE21	1.78	0.49
1:i:533:LEU:HD21	1:z:127:GLN:HE21	1.78	0.49
1:k:114:ALA:HB1	1:k:120:TRP:NE1	2.28	0.49
1:l:379:TYR:CD2	1:l:392:GLU:HG3	2.44	0.49
1:n:42:ASN:ND2	1:z:252:ASN:OD1	2.46	0.49
1:o:407:TRP:HE3	1:o:410:LYS:HG2	1.77	0.49
1:o:411:ASN:HD22	1:p:342:TYR:H	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:533:LEU:HD21	1:u:127:GLN:HE21	1.77	0.49
1:p:106:GLU:HA	1:p:210:CYS:HB3	1.95	0.49
1:r:332:GLY:HA2	1:r:353:GLN:NE2	2.26	0.49
1:s:101:TYR:CZ	1:s:236:GLY:HA3	2.44	0.49
1:s:178:GLN:HE21	1:s:262:TRP:HH2	1.60	0.49
1:s:223:GLN:HB3	1:s:226:ARG:HB3	1.94	0.49
1:x:453:ALA:O	1:x:472:PRO:HD2	2.13	0.49
1:y:47:PHE:HE2	1:y:128:GLN:HB3	1.78	0.49
1:z:332:GLY:HA2	1:z:353:GLN:NE2	2.26	0.49
1:z:439:TYR:CE1	1:6:469:ALA:CB	2.87	0.49
1:6:120:TRP:CZ3	1:6:516:MET:HG2	2.48	0.49
1:6:453:ALA:O	1:6:472:PRO:HD2	2.13	0.49
1:A:120:TRP:CZ3	1:A:516:MET:HG2	2.48	0.49
1:A:379:TYR:CD2	1:A:392:GLU:HG3	2.44	0.49
1:B:411:ASN:HD22	1:J:342:TYR:H	1.61	0.49
1:C:47:PHE:HE2	1:C:128:GLN:HB3	1.78	0.49
1:C:127:GLN:HE21	1:L:533:LEU:HD21	1.78	0.49
1:C:342:TYR:H	1:M:411:ASN:HD22	1.61	0.49
1:D:66:ILE:HD11	1:D:206:LEU:HD22	1.95	0.49
1:E:106:GLU:HA	1:E:210:CYS:HB3	1.95	0.49
1:E:358:ALA:HB2	1:E:399:GLU:HG3	1.93	0.49
1:E:390:MET:HA	1:E:391:ARG:HD2	1.94	0.49
1:E:492:ASP:OD1	1:E:493:VAL:N	2.45	0.49
1:G:407:TRP:HE3	1:G:410:LYS:HG2	1.77	0.49
1:G:453:ALA:O	1:G:472:PRO:HD2	2.13	0.49
1:H:42:ASN:ND2	1:I:252:ASN:OD1	2.46	0.49
1:H:66:ILE:HD11	1:H:206:LEU:HD22	1.95	0.49
1:H:453:ALA:O	1:H:472:PRO:HD2	2.13	0.49
1:K:47:PHE:HE2	1:K:128:GLN:HB3	1.78	0.49
1:K:120:TRP:CZ3	1:K:516:MET:HG2	2.48	0.49
1:K:246:PRO:CG	1:7:528:TRP:CB	2.65	0.49
1:K:391:ARG:HH12	1:7:308:ILE:N	2.10	0.49
1:M:59:HIS:HE1	1:M:515:LYS:HZ1	1.61	0.49
1:N:267:TYR:OH	1:N:477:GLY:O	2.29	0.49
1:N:379:TYR:CD2	1:N:392:GLU:HG3	2.44	0.49
1:N:411:ASN:HD22	1:P:342:TYR:H	1.60	0.49
1:O:247:LEU:O	1:O:248:GLU:CB	2.42	0.49
1:P:223:GLN:HB3	1:P:226:ARG:HB3	1.94	0.49
1:R:47:PHE:HE2	1:R:128:GLN:HB3	1.78	0.49
1:R:107:THR:CG2	1:R:209:TYR:HD2	2.25	0.49
1:S:114:ALA:HB1	1:S:120:TRP:NE1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:59:HIS:HE1	1:T:515:LYS:HZ1	1.60	0.49
1:T:98:ASN:HA	1:f:323:SER:HG	1.75	0.49
1:T:178:GLN:HE21	1:T:262:TRP:HH2	1.60	0.49
1:V:308:ILE:N	1:4:391:ARG:HH12	2.10	0.49
1:V:341:HIS:HE2	1:X:406:ASP:CG	2.17	0.49
1:W:109:TRP:CZ3	1:W:485:LYS:HB2	2.48	0.49
1:X:120:TRP:CZ3	1:X:516:MET:HG2	2.48	0.49
1:Y:66:ILE:HD11	1:Y:206:LEU:HD22	1.95	0.49
1:Z:120:TRP:CZ3	1:Z:516:MET:HG2	2.48	0.49
1:0:100:SER:O	1:0:100:SER:OG	2.23	0.49
1:1:214:ASP:OD2	1:1:238:GLN:HB3	2.11	0.49
1:2:342:TYR:H	1:j:411:ASN:HD22	1.61	0.49
1:3:411:ASN:HD22	1:f:342:TYR:H	1.61	0.49
1:5:96:THR:HG21	1:5:221:ILE:CG1	2.43	0.49
1:b:120:TRP:CZ3	1:b:516:MET:HG2	2.48	0.49
1:d:120:TRP:CZ3	1:d:516:MET:HG2	2.48	0.49
1:d:308:ILE:N	1:e:391:ARG:HH12	2.10	0.49
1:d:411:ASN:HD22	1:e:342:TYR:H	1.61	0.49
1:e:337:GLU:HA	1:e:338:TRP:C	2.37	0.49
1:f:96:THR:HG21	1:f:221:ILE:CG1	2.43	0.49
1:g:106:GLU:HA	1:g:210:CYS:HB3	1.95	0.49
1:h:332:GLY:HA2	1:h:353:GLN:NE2	2.26	0.49
1:i:178:GLN:HE21	1:i:262:TRP:HH2	1.60	0.49
1:i:244:PHE:HE2	1:i:246:PRO:HB3	1.63	0.49
1:i:411:ASN:HD22	1:j:342:TYR:H	1.61	0.49
1:j:42:ASN:ND2	1:k:252:ASN:OD1	2.46	0.49
1:k:127:GLN:HE21	1:r:533:LEU:HD21	1.77	0.49
1:l:308:ILE:N	1:m:391:ARG:HH12	2.10	0.49
1:m:390:MET:HA	1:m:391:ARG:HD2	1.94	0.49
1:n:127:GLN:HE21	1:y:533:LEU:HD21	1.78	0.49
1:n:223:GLN:HB3	1:n:226:ARG:HB3	1.94	0.49
1:n:252:ASN:OD1	1:s:42:ASN:ND2	2.46	0.49
1:n:289:CYS:HA	1:o:212:HIS:CE1	2.47	0.49
1:n:411:ASN:HD22	1:o:342:TYR:H	1.61	0.49
1:o:47:PHE:HE2	1:o:128:GLN:HB3	1.78	0.49
1:o:96:THR:HG21	1:o:221:ILE:CG1	2.43	0.49
1:o:308:ILE:N	1:p:391:ARG:HH12	2.10	0.49
1:o:406:ASP:CG	1:p:341:HIS:HE2	2.16	0.49
1:o:453:ALA:O	1:o:472:PRO:HD2	2.13	0.49
1:p:42:ASN:ND2	1:q:252:ASN:OD1	2.46	0.49
1:p:120:TRP:CZ3	1:p:516:MET:HG2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:96:THR:HG21	1:q:221:ILE:CG1	2.43	0.49
1:q:358:ALA:HB2	1:q:399:GLU:HG3	1.93	0.49
1:q:411:ASN:HD22	1:r:342:TYR:H	1.61	0.49
1:r:411:ASN:HD22	1:s:342:TYR:H	1.61	0.49
1:r:419:ASP:OD1	1:r:420:HIS:N	2.46	0.49
1:s:100:SER:O	1:s:100:SER:OG	2.23	0.49
1:t:252:ASN:OD1	1:x:42:ASN:ND2	2.46	0.49
1:u:178:GLN:HE21	1:u:262:TRP:HH2	1.60	0.49
1:v:223:GLN:HB3	1:v:226:ARG:HB3	1.94	0.49
1:v:453:ALA:O	1:v:472:PRO:HD2	2.13	0.49
1:v:492:ASP:OD1	1:v:493:VAL:N	2.44	0.49
1:w:332:GLY:HA2	1:w:353:GLN:NE2	2.26	0.49
1:x:66:ILE:HD11	1:x:206:LEU:HD22	1.95	0.49
1:x:244:PHE:HE2	1:x:246:PRO:HB3	1.63	0.49
1:y:252:ASN:OD1	1:7:42:ASN:ND2	2.46	0.49
1:z:56:ILE:HB	1:z:518:PHE:HB2	1.95	0.49
1:z:96:THR:HG21	1:z:221:ILE:CG1	2.43	0.49
1:6:337:GLU:HA	1:6:338:TRP:C	2.37	0.49
1:7:120:TRP:CZ3	1:7:516:MET:HG2	2.48	0.49
1:A:106:GLU:HA	1:A:210:CYS:HB3	1.95	0.49
1:C:56:ILE:HB	1:C:518:PHE:HB2	1.95	0.49
1:D:96:THR:HG21	1:D:221:ILE:CG1	2.43	0.49
1:D:252:ASN:OD1	1:E:42:ASN:ND2	2.46	0.49
1:E:245:THR:HA	1:E:246:PRO:HD2	1.50	0.49
1:E:338:TRP:O	1:F:414:GLN:N	2.37	0.49
1:G:439:TYR:CE1	1:I:469:ALA:CB	2.86	0.49
1:I:59:HIS:HE1	1:I:515:LYS:NZ	2.09	0.49
1:I:66:ILE:HD11	1:I:206:LEU:HD22	1.95	0.49
1:K:66:ILE:HD11	1:K:206:LEU:HD22	1.95	0.49
1:L:244:PHE:HE2	1:L:246:PRO:HB3	1.63	0.49
1:M:153:VAL:HB	1:M:505:VAL:HG23	1.93	0.49
1:M:252:ASN:OD1	1:2:42:ASN:ND2	2.46	0.49
1:M:453:ALA:O	1:M:472:PRO:HD2	2.13	0.49
1:N:106:GLU:HA	1:N:210:CYS:HB3	1.95	0.49
1:N:419:ASP:OD1	1:N:420:HIS:N	2.46	0.49
1:O:492:ASP:OD1	1:O:493:VAL:N	2.44	0.49
1:P:101:TYR:CZ	1:P:236:GLY:HA3	2.44	0.49
1:P:453:ALA:O	1:P:472:PRO:HD2	2.13	0.49
1:Q:127:GLN:HE21	1:R:533:LEU:HD21	1.78	0.49
1:R:252:ASN:OD1	1:V:42:ASN:ND2	2.46	0.49
1:R:407:TRP:HE3	1:R:410:LYS:HG2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:96:THR:HG21	1:S:221:ILE:CG1	2.43	0.49
1:S:225:ASP:HB2	1:S:226:ARG:CB	2.36	0.49
1:S:332:GLY:HA2	1:S:353:GLN:NE2	2.26	0.49
1:T:66:ILE:HD11	1:T:206:LEU:HD22	1.95	0.49
1:T:114:ALA:HB1	1:T:120:TRP:NE1	2.28	0.49
1:T:411:ASN:HD22	1:3:342:TYR:H	1.61	0.49
1:U:114:ALA:HB1	1:U:120:TRP:NE1	2.28	0.49
1:V:66:ILE:HD11	1:V:206:LEU:HD22	1.95	0.49
1:V:391:ARG:HH12	1:X:308:ILE:N	2.10	0.49
1:Y:419:ASP:OD1	1:Y:420:HIS:N	2.46	0.49
1:Z:419:ASP:OD1	1:Z:420:HIS:N	2.46	0.49
1:0:107:THR:CG2	1:0:209:TYR:HD2	2.25	0.49
1:0:406:ASP:CG	1:7:341:HIS:HE2	2.16	0.49
1:1:225:ASP:HB2	1:1:226:ARG:CB	2.36	0.49
1:2:114:ALA:HB1	1:2:120:TRP:NE1	2.28	0.49
1:2:212:HIS:CE1	1:j:289:CYS:HA	2.47	0.49
1:2:252:ASN:OD1	1:m:42:ASN:ND2	2.46	0.49
1:3:289:CYS:HA	1:f:212:HIS:CE1	2.47	0.49
1:4:337:GLU:HA	1:4:338:TRP:C	2.37	0.49
1:a:59:HIS:HE1	1:a:515:LYS:HZ1	1.61	0.49
1:a:134:ARG:O	1:a:276:LEU:N	2.32	0.49
1:d:153:VAL:HB	1:d:505:VAL:HG23	1.93	0.49
1:e:56:ILE:HB	1:e:518:PHE:HB2	1.95	0.49
1:f:120:TRP:CZ3	1:f:516:MET:HG2	2.48	0.49
1:f:419:ASP:OD1	1:f:420:HIS:N	2.46	0.49
1:g:42:ASN:ND2	1:m:252:ASN:OD1	2.46	0.49
1:i:56:ILE:HB	1:i:518:PHE:HB2	1.95	0.49
1:i:59:HIS:HE1	1:i:515:LYS:HZ1	1.60	0.49
1:i:66:ILE:HD11	1:i:206:LEU:HD22	1.95	0.49
1:i:114:ALA:HB1	1:i:120:TRP:NE1	2.28	0.49
1:i:225:ASP:HB2	1:i:226:ARG:CB	2.36	0.49
1:j:114:ALA:HB1	1:j:120:TRP:NE1	2.28	0.49
1:l:453:ALA:O	1:l:472:PRO:HD2	2.13	0.49
1:m:47:PHE:HE2	1:m:128:GLN:HB3	1.78	0.49
1:n:109:TRP:CD1	1:n:247:LEU:HD22	2.46	0.49
1:n:342:TYR:H	1:p:411:ASN:HD22	1.61	0.49
1:n:419:ASP:OD1	1:n:420:HIS:N	2.46	0.49
1:p:109:TRP:CZ3	1:p:485:LYS:HB2	2.48	0.49
1:p:492:ASP:OD1	1:p:493:VAL:N	2.44	0.49
1:s:56:ILE:HB	1:s:518:PHE:HB2	1.95	0.49
1:s:453:ALA:O	1:s:472:PRO:HD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:415:SER:C	1:u:371:GLN:HE22	2.21	0.49
1:u:332:GLY:HA2	1:u:353:GLN:NE2	2.26	0.49
1:v:225:ASP:HB2	1:v:226:ARG:CB	2.36	0.49
1:w:107:THR:CG2	1:w:209:TYR:HD2	2.25	0.49
1:w:109:TRP:CZ3	1:w:485:LYS:HB2	2.48	0.49
1:w:223:GLN:HB3	1:w:226:ARG:HB3	1.94	0.49
1:y:332:GLY:HA2	1:y:353:GLN:NE2	2.26	0.49
1:z:114:ALA:HB1	1:z:120:TRP:NE1	2.28	0.49
1:z:308:ILE:N	1:6:391:ARG:HH12	2.10	0.49
1:6:107:THR:CG2	1:6:209:TYR:HD2	2.25	0.49
1:6:114:ALA:HB1	1:6:120:TRP:NE1	2.28	0.49
1:A:419:ASP:OD1	1:A:420:HIS:N	2.46	0.49
1:B:289:CYS:HA	1:J:212:HIS:CE1	2.47	0.49
1:D:453:ALA:O	1:D:472:PRO:HD2	2.13	0.49
1:E:56:ILE:HB	1:E:518:PHE:HB2	1.95	0.49
1:E:391:ARG:HH12	1:F:308:ILE:N	2.10	0.49
1:E:533:LEU:HD21	1:P:127:GLN:HE21	1.77	0.49
1:F:342:TYR:H	1:Q:411:ASN:HD22	1.61	0.49
1:G:492:ASP:OD1	1:G:493:VAL:N	2.44	0.49
1:J:42:ASN:ND2	1:0:252:ASN:OD1	2.46	0.49
1:K:390:MET:HA	1:K:391:ARG:HD2	1.94	0.49
1:L:56:ILE:HB	1:L:518:PHE:HB2	1.95	0.49
1:L:419:ASP:OD1	1:L:420:HIS:N	2.46	0.49
1:N:114:ALA:HB1	1:N:120:TRP:NE1	2.28	0.49
1:N:323:SER:HG	1:P:98:ASN:HA	1.73	0.49
1:N:533:LEU:HD21	1:O:127:GLN:HE21	1.78	0.49
1:O:47:PHE:HE2	1:O:128:GLN:HB3	1.78	0.49
1:P:56:ILE:HB	1:P:518:PHE:HB2	1.95	0.49
1:Q:134:ARG:O	1:Q:276:LEU:N	2.32	0.49
1:Q:419:ASP:OD1	1:Q:420:HIS:N	2.46	0.49
1:R:120:TRP:CZ3	1:R:516:MET:HG2	2.48	0.49
1:S:56:ILE:HB	1:S:518:PHE:HB2	1.95	0.49
1:S:106:GLU:HA	1:S:210:CYS:HB3	1.95	0.49
1:T:56:ILE:HB	1:T:518:PHE:HB2	1.95	0.49
1:T:453:ALA:O	1:T:472:PRO:HD2	2.13	0.49
1:U:107:THR:CG2	1:U:209:TYR:HD2	2.25	0.49
1:V:47:PHE:HE2	1:V:128:GLN:HB3	1.78	0.49
1:V:407:TRP:HE3	1:V:410:LYS:HG2	1.77	0.49
1:W:106:GLU:HA	1:W:210:CYS:HB3	1.95	0.49
1:W:223:GLN:HB3	1:W:226:ARG:HB3	1.94	0.49
1:X:107:THR:CG2	1:X:209:TYR:HD2	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:127:GLN:HE21	1:Z:533:LEU:HD21	1.78	0.49
1:Y:178:GLN:HE21	1:Y:262:TRP:HH2	1.60	0.49
1:0:364:VAL:HG21	1:0:539:ARG:HD3	1.93	0.49
1:2:120:TRP:CZ3	1:2:516:MET:HG2	2.48	0.49
1:2:323:SER:HG	1:i:98:ASN:HA	1.75	0.49
1:2:419:ASP:OD1	1:2:420:HIS:N	2.46	0.49
1:3:528:TRP:HB3	1:f:246:PRO:HG3	1.86	0.49
1:4:66:ILE:HD11	1:4:206:LEU:HD22	1.95	0.49
1:4:120:TRP:CZ3	1:4:516:MET:HG2	2.48	0.49
1:a:66:ILE:HD11	1:a:206:LEU:HD22	1.95	0.49
1:a:257:ARG:CG	1:e:37:SER:CB	2.72	0.49
1:d:415:SER:C	1:e:371:GLN:HE22	2.21	0.49
1:g:127:GLN:HE21	1:l:533:LEU:HD21	1.78	0.49
1:g:453:ALA:O	1:g:472:PRO:HD2	2.13	0.49
1:h:390:MET:HA	1:h:391:ARG:HD2	1.94	0.49
1:i:134:ARG:O	1:i:276:LEU:N	2.32	0.49
1:k:47:PHE:HE2	1:k:128:GLN:HB3	1.78	0.49
1:k:106:GLU:HA	1:k:210:CYS:HB3	1.95	0.49
1:k:411:ASN:HD22	1:l:342:TYR:H	1.60	0.49
1:l:439:TYR:CE1	1:m:469:ALA:CB	2.87	0.49
1:o:178:GLN:HE21	1:o:262:TRP:HH2	1.60	0.49
1:o:414:GLN:N	1:p:338:TRP:O	2.37	0.49
1:p:56:ILE:HB	1:p:518:PHE:HB2	1.95	0.49
1:p:390:MET:HA	1:p:391:ARG:HD2	1.94	0.49
1:q:66:ILE:HD11	1:q:206:LEU:HD22	1.95	0.49
1:q:453:ALA:O	1:q:472:PRO:HD2	2.13	0.49
1:r:106:GLU:HA	1:r:210:CYS:HB3	1.95	0.49
1:u:106:GLU:HA	1:u:210:CYS:HB3	1.95	0.49
1:u:120:TRP:CZ3	1:u:516:MET:HG2	2.48	0.49
1:u:419:ASP:OD1	1:u:420:HIS:N	2.46	0.49
1:v:47:PHE:HE2	1:v:128:GLN:HB3	1.78	0.49
1:v:407:TRP:HE3	1:v:410:LYS:HG2	1.77	0.49
1:w:96:THR:HG21	1:w:221:ILE:CG1	2.43	0.49
1:w:106:GLU:HA	1:w:210:CYS:HB3	1.95	0.49
1:w:453:ALA:O	1:w:472:PRO:HD2	2.13	0.49
1:x:407:TRP:HE3	1:x:410:LYS:HG2	1.77	0.49
1:z:178:GLN:HE21	1:z:262:TRP:HH2	1.60	0.49
1:z:225:ASP:HB2	1:z:226:ARG:CB	2.36	0.49
1:z:419:ASP:OD1	1:z:420:HIS:N	2.46	0.49
1:7:47:PHE:HE2	1:7:128:GLN:HB3	1.78	0.49
1:A:114:ALA:HB1	1:A:120:TRP:NE1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:SER:C	1:G:371:GLN:HE22	2.21	0.48
1:B:59:HIS:HE1	1:B:515:LYS:HZ1	1.61	0.48
1:B:66:ILE:HD11	1:B:206:LEU:HD22	1.95	0.48
1:C:337:GLU:HA	1:C:338:TRP:C	2.37	0.48
1:C:391:ARG:HH12	1:M:308:ILE:N	2.10	0.48
1:E:107:THR:CG2	1:E:209:TYR:HD2	2.25	0.48
1:G:47:PHE:HE2	1:G:128:GLN:HB3	1.78	0.48
1:G:225:ASP:HB2	1:G:226:ARG:CB	2.36	0.48
1:I:96:THR:HG21	1:I:221:ILE:CG1	2.43	0.48
1:I:106:GLU:HA	1:I:210:CYS:HB3	1.95	0.48
1:I:453:ALA:O	1:I:472:PRO:HD2	2.13	0.48
1:J:120:TRP:CZ3	1:J:516:MET:HG2	2.48	0.48
1:J:419:ASP:OD1	1:J:420:HIS:N	2.46	0.48
1:K:337:GLU:HA	1:K:338:TRP:C	2.37	0.48
1:L:42:ASN:ND2	1:1:252:ASN:OD1	2.46	0.48
1:L:101:TYR:CZ	1:L:236:GLY:HA3	2.44	0.48
1:M:47:PHE:HE2	1:M:128:GLN:HB3	1.78	0.48
1:M:225:ASP:HB2	1:M:226:ARG:CB	2.36	0.48
1:N:223:GLN:HB3	1:N:226:ARG:HB3	1.94	0.48
1:P:114:ALA:HB1	1:P:120:TRP:NE1	2.28	0.48
1:P:379:TYR:CD2	1:P:392:GLU:HG3	2.44	0.48
1:R:106:GLU:HA	1:R:210:CYS:HB3	1.95	0.48
1:R:192:TYR:CD1	1:U:310:CYS:HB3	2.48	0.48
1:R:332:GLY:HA2	1:R:353:GLN:NE2	2.26	0.48
1:S:120:TRP:CZ3	1:S:516:MET:HG2	2.48	0.48
1:S:419:ASP:OD1	1:S:420:HIS:N	2.46	0.48
1:T:120:TRP:CZ3	1:T:516:MET:HG2	2.48	0.48
1:T:134:ARG:O	1:T:276:LEU:N	2.32	0.48
1:T:337:GLU:HA	1:T:338:TRP:C	2.37	0.48
1:T:342:TYR:H	1:f:411:ASN:HD22	1.61	0.48
1:U:42:ASN:ND2	1:4:252:ASN:OD1	2.46	0.48
1:U:106:GLU:HA	1:U:210:CYS:HB3	1.95	0.48
1:V:106:GLU:HA	1:V:210:CYS:HB3	1.95	0.48
1:W:96:THR:HG21	1:W:221:ILE:CG1	2.43	0.48
1:W:107:THR:CG2	1:W:209:TYR:HD2	2.25	0.48
1:W:453:ALA:O	1:W:472:PRO:HD2	2.13	0.48
1:Y:114:ALA:HB1	1:Y:120:TRP:NE1	2.28	0.48
1:Y:533:LEU:HD21	1:Z:127:GLN:HE21	1.78	0.48
1:Z:178:GLN:HE21	1:Z:262:TRP:HH2	1.60	0.48
1:Z:267:TYR:OH	1:Z:477:GLY:O	2.29	0.48
1:0:308:ILE:N	1:7:391:ARG:HH12	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:178:GLN:HE21	1:1:262:TRP:HH2	1.60	0.48
1:2:411:ASN:HD22	1:i:342:TYR:H	1.61	0.48
1:2:415:SER:C	1:i:371:GLN:HE22	2.21	0.48
1:4:56:ILE:HB	1:4:518:PHE:HB2	1.95	0.48
1:5:212:HIS:CE1	1:a:289:CYS:HA	2.47	0.48
1:5:419:ASP:OD1	1:5:420:HIS:N	2.46	0.48
1:a:56:ILE:HB	1:a:518:PHE:HB2	1.95	0.48
1:b:56:ILE:HB	1:b:518:PHE:HB2	1.95	0.48
1:b:101:TYR:CZ	1:b:236:GLY:HA3	2.44	0.48
1:b:419:ASP:OD1	1:b:420:HIS:N	2.46	0.48
1:c:178:GLN:HE21	1:c:262:TRP:HH2	1.60	0.48
1:c:192:TYR:CD1	1:e:310:CYS:HB3	2.48	0.48
1:d:47:PHE:HE2	1:d:128:GLN:HB3	1.78	0.48
1:d:252:ASN:OD1	1:f:42:ASN:ND2	2.46	0.48
1:f:407:TRP:HE3	1:f:410:LYS:HG2	1.77	0.48
1:g:47:PHE:HE2	1:g:128:GLN:HB3	1.78	0.48
1:h:47:PHE:HE2	1:h:128:GLN:HB3	1.78	0.48
1:h:252:ASN:OD1	1:l:42:ASN:ND2	2.46	0.48
1:i:337:GLU:HA	1:i:338:TRP:C	2.37	0.48
1:i:407:TRP:HE3	1:i:410:LYS:HG2	1.76	0.48
1:i:453:ALA:O	1:i:472:PRO:HD2	2.13	0.48
1:j:127:GLN:HE21	1:m:533:LEU:HD21	1.78	0.48
1:k:492:ASP:OD1	1:k:493:VAL:N	2.45	0.48
1:l:47:PHE:HE2	1:l:128:GLN:HB3	1.78	0.48
1:l:106:GLU:HA	1:l:210:CYS:HB3	1.95	0.48
1:l:107:THR:CG2	1:l:209:TYR:HD2	2.25	0.48
1:m:332:GLY:HA2	1:m:353:GLN:NE2	2.26	0.48
1:p:107:THR:CG2	1:p:209:TYR:HD2	2.25	0.48
1:p:533:LEU:HD21	1:s:127:GLN:HE21	1.78	0.48
1:s:96:THR:HG21	1:s:221:ILE:CG1	2.43	0.48
1:t:59:HIS:HE1	1:t:515:LYS:NZ	2.09	0.48
1:t:66:ILE:HD11	1:t:206:LEU:HD22	1.95	0.48
1:t:96:THR:HG21	1:t:221:ILE:CG1	2.43	0.48
1:t:106:GLU:HA	1:t:210:CYS:HB3	1.95	0.48
1:t:120:TRP:CZ3	1:t:516:MET:HG2	2.48	0.48
1:u:453:ALA:O	1:u:472:PRO:HD2	2.13	0.48
1:w:337:GLU:HA	1:w:338:TRP:C	2.37	0.48
1:w:407:TRP:HE3	1:w:410:LYS:HG2	1.77	0.48
1:y:106:GLU:HA	1:y:210:CYS:HB3	1.95	0.48
1:y:120:TRP:CZ3	1:y:516:MET:HG2	2.48	0.48
1:y:192:TYR:CD1	1:6:310:CYS:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:407:TRP:HE3	1:y:410:LYS:HG2	1.77	0.48
1:7:66:ILE:HD11	1:7:206:LEU:HD22	1.95	0.48
1:A:371:GLN:HE22	1:I:415:SER:C	2.22	0.48
1:A:453:ALA:O	1:A:472:PRO:HD2	2.13	0.48
1:B:56:ILE:HB	1:B:518:PHE:HB2	1.95	0.48
1:C:310:CYS:HB3	1:1:192:TYR:CD1	2.49	0.48
1:D:342:TYR:H	1:P:411:ASN:HD22	1.60	0.48
1:F:106:GLU:HA	1:F:210:CYS:HB3	1.95	0.48
1:F:178:GLN:HE21	1:F:262:TRP:HH2	1.60	0.48
1:H:120:TRP:CZ3	1:H:516:MET:HG2	2.48	0.48
1:I:42:ASN:ND2	1:J:252:ASN:OD1	2.46	0.48
1:I:56:ILE:HB	1:I:518:PHE:HB2	1.95	0.48
1:I:120:TRP:CZ3	1:I:516:MET:HG2	2.48	0.48
1:K:56:ILE:HB	1:K:518:PHE:HB2	1.95	0.48
1:L:223:GLN:HB3	1:L:226:ARG:HB3	1.94	0.48
1:M:390:MET:HA	1:M:391:ARG:HD2	1.94	0.48
1:N:42:ASN:ND2	1:g:252:ASN:OD1	2.46	0.48
1:O:106:GLU:HA	1:O:210:CYS:HB3	1.95	0.48
1:O:411:ASN:HD22	1:g:342:TYR:H	1.61	0.48
1:S:178:GLN:HE21	1:S:262:TRP:HH2	1.60	0.48
1:S:415:SER:C	1:U:371:GLN:HE22	2.21	0.48
1:T:47:PHE:HE2	1:T:128:GLN:HB3	1.78	0.48
1:T:371:GLN:HE22	1:f:415:SER:C	2.21	0.48
1:V:528:TRP:CB	1:4:246:PRO:CG	2.65	0.48
1:W:407:TRP:HE3	1:W:410:LYS:HG2	1.77	0.48
1:X:419:ASP:OD1	1:X:420:HIS:N	2.46	0.48
1:Y:56:ILE:HB	1:Y:518:PHE:HB2	1.95	0.48
1:Y:225:ASP:HB2	1:Y:226:ARG:CB	2.36	0.48
1:Y:267:TYR:OH	1:Y:477:GLY:O	2.29	0.48
1:Z:114:ALA:HB1	1:Z:120:TRP:NE1	2.28	0.48
1:0:419:ASP:OD1	1:0:420:HIS:N	2.46	0.48
1:1:419:ASP:OD1	1:1:420:HIS:N	2.46	0.48
1:2:156:THR:O	1:2:163:THR:OG1	2.25	0.48
1:2:246:PRO:O	1:2:246:PRO:HG2	2.14	0.48
1:2:407:TRP:HE3	1:2:410:LYS:HG2	1.77	0.48
1:3:178:GLN:HE21	1:3:262:TRP:HH2	1.60	0.48
1:4:341:HIS:CE1	1:4:343:SER:HB2	2.49	0.48
1:4:390:MET:HA	1:4:391:ARG:HD2	1.94	0.48
1:5:56:ILE:HB	1:5:518:PHE:HB2	1.95	0.48
1:5:120:TRP:CZ3	1:5:516:MET:HG2	2.48	0.48
1:c:419:ASP:OD1	1:c:420:HIS:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:225:ASP:HB2	1:d:226:ARG:CB	2.36	0.48
1:f:223:GLN:HB3	1:f:226:ARG:HB3	1.94	0.48
1:g:411:ASN:HD22	1:h:342:TYR:H	1.61	0.48
1:g:419:ASP:OD1	1:g:420:HIS:N	2.46	0.48
1:g:439:TYR:CE1	1:h:469:ALA:CB	2.87	0.48
1:j:178:GLN:HE21	1:j:262:TRP:HH2	1.60	0.48
1:k:337:GLU:HA	1:k:338:TRP:C	2.37	0.48
1:l:252:ASN:OD1	1:r:42:ASN:ND2	2.46	0.48
1:l:419:ASP:OD1	1:l:420:HIS:N	2.46	0.48
1:p:47:PHE:HE2	1:p:128:GLN:HB3	1.78	0.48
1:r:66:ILE:HD11	1:r:206:LEU:HD22	1.95	0.48
1:r:114:ALA:HB1	1:r:120:TRP:NE1	2.28	0.48
1:r:120:TRP:CZ3	1:r:516:MET:HG2	2.48	0.48
1:r:223:GLN:HB3	1:r:226:ARG:HB3	1.94	0.48
1:r:439:TYR:CE1	1:s:469:ALA:CB	2.86	0.48
1:t:56:ILE:HB	1:t:518:PHE:HB2	1.95	0.48
1:t:114:ALA:HB1	1:t:120:TRP:NE1	2.28	0.48
1:t:453:ALA:O	1:t:472:PRO:HD2	2.13	0.48
1:t:469:ALA:CB	1:v:439:TYR:CE1	2.86	0.48
1:u:114:ALA:HB1	1:u:120:TRP:NE1	2.28	0.48
1:u:415:SER:C	1:v:371:GLN:HE22	2.21	0.48
1:v:533:LEU:HD21	1:x:127:GLN:HE21	1.78	0.48
1:x:114:ALA:HB1	1:x:120:TRP:NE1	2.28	0.48
1:y:379:TYR:CD2	1:y:392:GLU:HG3	2.44	0.48
1:z:47:PHE:HE2	1:z:128:GLN:HB3	1.78	0.48
1:z:120:TRP:CZ3	1:z:516:MET:HG2	2.48	0.48
1:z:390:MET:HA	1:z:391:ARG:HD2	1.94	0.48
1:z:415:SER:C	1:6:371:GLN:HE22	2.21	0.48
1:6:106:GLU:HA	1:6:210:CYS:HB3	1.95	0.48
1:7:56:ILE:HB	1:7:518:PHE:HB2	1.95	0.48
1:7:106:GLU:HA	1:7:210:CYS:HB3	1.95	0.48
1:7:407:TRP:HE3	1:7:410:LYS:HG2	1.77	0.48
1:A:246:PRO:O	1:A:246:PRO:HG2	2.14	0.48
1:C:371:GLN:HE22	1:M:415:SER:C	2.22	0.48
1:D:310:CYS:HB3	1:N:192:TYR:CD1	2.48	0.48
1:D:533:LEU:HD21	1:M:127:GLN:HE21	1.77	0.48
1:E:47:PHE:HE2	1:E:128:GLN:HB3	1.78	0.48
1:E:341:HIS:CE1	1:E:343:SER:HB2	2.49	0.48
1:E:419:ASP:OD1	1:E:420:HIS:N	2.46	0.48
1:F:341:HIS:CE1	1:F:343:SER:HB2	2.49	0.48
1:G:415:SER:C	1:I:371:GLN:HE22	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:96:THR:HG21	1:H:221:ILE:CG1	2.43	0.48
1:H:114:ALA:HB1	1:H:120:TRP:NE1	2.28	0.48
1:H:415:SER:C	1:W:371:GLN:HE22	2.22	0.48
1:J:56:ILE:HB	1:J:518:PHE:HB2	1.95	0.48
1:K:341:HIS:CE1	1:K:343:SER:HB2	2.49	0.48
1:K:453:ALA:O	1:K:472:PRO:HD2	2.13	0.48
1:L:341:HIS:CE1	1:L:343:SER:HB2	2.49	0.48
1:N:66:ILE:HD11	1:N:206:LEU:HD22	1.95	0.48
1:N:120:TRP:CZ3	1:N:516:MET:HG2	2.48	0.48
1:N:439:TYR:CE1	1:P:469:ALA:CB	2.86	0.48
1:P:47:PHE:HE2	1:P:128:GLN:HB3	1.78	0.48
1:P:96:THR:HG21	1:P:221:ILE:CG1	2.43	0.48
1:P:419:ASP:OD1	1:P:420:HIS:N	2.46	0.48
1:R:371:GLN:HE22	1:U:415:SER:C	2.22	0.48
1:R:379:TYR:CD2	1:R:392:GLU:HG3	2.44	0.48
1:S:47:PHE:HE2	1:S:128:GLN:HB3	1.78	0.48
1:T:244:PHE:HE2	1:T:246:PRO:HB3	1.63	0.48
1:T:407:TRP:HE3	1:T:410:LYS:HG2	1.76	0.48
1:U:419:ASP:OD1	1:U:420:HIS:N	2.46	0.48
1:X:246:PRO:O	1:X:246:PRO:HG2	2.14	0.48
1:X:252:ASN:OD1	1:5:42:ASN:ND2	2.46	0.48
1:X:341:HIS:CE1	1:X:343:SER:HB2	2.49	0.48
1:X:364:VAL:HG21	1:X:539:ARG:HD3	1.93	0.48
1:Y:42:ASN:ND2	1:x:252:ASN:OD1	2.45	0.48
1:Y:47:PHE:HE2	1:Y:128:GLN:HB3	1.78	0.48
1:Z:47:PHE:HE2	1:Z:128:GLN:HB3	1.78	0.48
1:Z:56:ILE:HB	1:Z:518:PHE:HB2	1.95	0.48
1:0:246:PRO:O	1:0:246:PRO:HG2	2.14	0.48
1:0:341:HIS:CE1	1:0:343:SER:HB2	2.49	0.48
1:3:66:ILE:HD11	1:3:206:LEU:HD22	1.95	0.48
1:4:453:ALA:O	1:4:472:PRO:HD2	2.13	0.48
1:a:246:PRO:O	1:a:246:PRO:HG2	2.14	0.48
1:a:341:HIS:CE1	1:a:343:SER:HB2	2.49	0.48
1:b:106:GLU:HA	1:b:210:CYS:HB3	1.95	0.48
1:b:223:GLN:HB3	1:b:226:ARG:HB3	1.94	0.48
1:c:120:TRP:CZ3	1:c:516:MET:HG2	2.48	0.48
1:c:127:GLN:HE21	1:f:533:LEU:HD21	1.78	0.48
1:c:225:ASP:HB2	1:c:226:ARG:CB	2.36	0.48
1:d:390:MET:HA	1:d:391:ARG:HD2	1.94	0.48
1:d:419:ASP:OD1	1:d:420:HIS:N	2.46	0.48
1:e:120:TRP:CZ3	1:e:516:MET:HG2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:246:PRO:O	1:f:246:PRO:HG2	2.14	0.48
1:g:66:ILE:HD11	1:g:206:LEU:HD22	1.95	0.48
1:g:107:THR:CG2	1:g:209:TYR:HD2	2.25	0.48
1:g:178:GLN:HE21	1:g:262:TRP:HH2	1.60	0.48
1:h:107:THR:CG2	1:h:209:TYR:HD2	2.25	0.48
1:i:120:TRP:CZ3	1:i:516:MET:HG2	2.48	0.48
1:j:66:ILE:HD11	1:j:206:LEU:HD22	1.95	0.48
1:k:533:LEU:HD21	1:r:127:GLN:HE21	1.77	0.48
1:l:66:ILE:HD11	1:l:206:LEU:HD22	1.95	0.48
1:l:411:ASN:HD22	1:m:342:TYR:H	1.61	0.48
1:m:106:GLU:HA	1:m:210:CYS:HB3	1.95	0.48
1:m:107:THR:CG2	1:m:209:TYR:HD2	2.25	0.48
1:m:246:PRO:O	1:m:246:PRO:HG2	2.14	0.48
1:n:191:PHE:CD1	1:n:191:PHE:N	2.81	0.48
1:n:533:LEU:HD21	1:y:127:GLN:HE21	1.78	0.48
1:o:106:GLU:HA	1:o:210:CYS:HB3	1.95	0.48
1:o:419:ASP:OD1	1:o:420:HIS:N	2.46	0.48
1:p:246:PRO:O	1:p:246:PRO:HG2	2.14	0.48
1:p:419:ASP:OD1	1:p:420:HIS:N	2.46	0.48
1:r:337:GLU:HA	1:r:338:TRP:C	2.37	0.48
1:r:453:ALA:O	1:r:472:PRO:HD2	2.13	0.48
1:s:114:ALA:HB1	1:s:120:TRP:NE1	2.28	0.48
1:s:379:TYR:CD2	1:s:392:GLU:HG3	2.44	0.48
1:t:371:GLN:HE22	1:v:415:SER:C	2.21	0.48
1:u:246:PRO:O	1:u:246:PRO:HG2	2.14	0.48
1:v:42:ASN:ND2	1:w:252:ASN:OD1	2.46	0.48
1:w:371:GLN:HE22	1:x:415:SER:C	2.22	0.48
1:x:120:TRP:CZ3	1:x:516:MET:HG2	2.48	0.48
1:y:341:HIS:CE1	1:y:343:SER:HB2	2.49	0.48
1:y:371:GLN:HE22	1:6:415:SER:C	2.22	0.48
1:y:411:ASN:HD22	1:z:342:TYR:H	1.61	0.48
1:6:419:ASP:OD1	1:6:420:HIS:N	2.46	0.48
1:7:109:TRP:CZ3	1:7:485:LYS:HB2	2.48	0.48
1:A:66:ILE:HD11	1:A:206:LEU:HD22	1.95	0.48
1:A:391:ARG:HH12	1:I:308:ILE:N	2.10	0.48
1:B:109:TRP:CZ3	1:B:485:LYS:HB2	2.48	0.48
1:B:134:ARG:O	1:B:276:LEU:N	2.32	0.48
1:B:246:PRO:O	1:B:246:PRO:HG2	2.14	0.48
1:C:252:ASN:OD1	1:D:42:ASN:ND2	2.46	0.48
1:C:415:SER:C	1:1:371:GLN:HE22	2.22	0.48
1:D:192:TYR:CD1	1:P:310:CYS:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:192:TYR:CD1	1:F:310:CYS:HB3	2.49	0.48
1:F:191:PHE:CD1	1:F:191:PHE:N	2.81	0.48
1:G:42:ASN:ND2	1:W:252:ASN:OD1	2.46	0.48
1:G:533:LEU:HD21	1:H:127:GLN:HE21	1.78	0.48
1:H:252:ASN:OD1	1:Z:42:ASN:ND2	2.45	0.48
1:H:407:TRP:HE3	1:H:410:LYS:HG2	1.77	0.48
1:H:419:ASP:OD1	1:H:420:HIS:N	2.46	0.48
1:I:114:ALA:HB1	1:I:120:TRP:NE1	2.28	0.48
1:J:415:SER:C	1:L:371:GLN:HE22	2.22	0.48
1:K:178:GLN:HE21	1:K:262:TRP:HH2	1.60	0.48
1:K:252:ASN:OD1	1:6:42:ASN:ND2	2.46	0.48
1:K:257:ARG:CG	1:6:37:SER:CB	2.72	0.48
1:L:106:GLU:HA	1:L:210:CYS:HB3	1.95	0.48
1:M:66:ILE:HD11	1:M:206:LEU:HD22	1.95	0.48
1:M:419:ASP:OD1	1:M:420:HIS:N	2.46	0.48
1:N:127:GLN:HE21	1:O:533:LEU:HD21	1.78	0.48
1:N:310:CYS:HB3	1:P:192:TYR:CD1	2.49	0.48
1:N:337:GLU:HA	1:N:338:TRP:C	2.37	0.48
1:N:453:ALA:O	1:N:472:PRO:HD2	2.13	0.48
1:P:341:HIS:CE1	1:P:343:SER:HB2	2.49	0.48
1:Q:191:PHE:CD1	1:Q:191:PHE:N	2.81	0.48
1:Q:533:LEU:HD21	1:R:127:GLN:HE21	1.78	0.48
1:R:341:HIS:CE1	1:R:343:SER:HB2	2.49	0.48
1:R:411:ASN:HD22	1:S:342:TYR:H	1.61	0.48
1:S:66:ILE:HD11	1:S:206:LEU:HD22	1.95	0.48
1:S:390:MET:HA	1:S:391:ARG:HD2	1.94	0.48
1:U:127:GLN:HE21	1:V:533:LEU:HD21	1.77	0.48
1:V:56:ILE:HB	1:V:518:PHE:HB2	1.95	0.48
1:V:109:TRP:CZ3	1:V:485:LYS:HB2	2.48	0.48
1:W:114:ALA:HB1	1:W:120:TRP:NE1	2.28	0.48
1:W:246:PRO:O	1:W:246:PRO:HG2	2.14	0.48
1:Y:100:SER:O	1:Y:100:SER:OG	2.23	0.48
1:Z:225:ASP:HB2	1:Z:226:ARG:CB	2.36	0.48
1:1:120:TRP:CZ3	1:1:516:MET:HG2	2.48	0.48
1:1:127:GLN:HE21	1:2:533:LEU:HD21	1.78	0.48
1:1:191:PHE:N	1:1:191:PHE:CD1	2.81	0.48
1:2:191:PHE:N	1:2:191:PHE:CD1	2.81	0.48
1:2:246:PRO:CG	1:j:528:TRP:CB	2.65	0.48
1:4:106:GLU:HA	1:4:210:CYS:HB3	1.95	0.48
1:5:341:HIS:CE1	1:5:343:SER:HB2	2.49	0.48
1:b:341:HIS:CE1	1:b:343:SER:HB2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:492:ASP:OD1	1:b:493:VAL:N	2.44	0.48
1:d:107:THR:CG2	1:d:209:TYR:HD2	2.25	0.48
1:d:127:GLN:HE21	1:q:533:LEU:HD21	1.77	0.48
1:d:257:ARG:N	1:f:37:SER:HG	2.08	0.48
1:f:191:PHE:N	1:f:191:PHE:CD1	2.81	0.48
1:h:106:GLU:HA	1:h:210:CYS:HB3	1.95	0.48
1:h:120:TRP:CZ3	1:h:516:MET:HG2	2.48	0.48
1:i:47:PHE:HE2	1:i:128:GLN:HB3	1.78	0.48
1:l:492:ASP:OD1	1:l:493:VAL:N	2.44	0.48
1:m:120:TRP:CZ3	1:m:516:MET:HG2	2.48	0.48
1:o:244:PHE:HE2	1:o:246:PRO:HB3	1.63	0.48
1:o:252:ASN:OD1	1:y:42:ASN:ND2	2.45	0.48
1:o:341:HIS:CE1	1:o:343:SER:HB2	2.49	0.48
1:p:341:HIS:CE1	1:p:343:SER:HB2	2.49	0.48
1:q:178:GLN:HE21	1:q:262:TRP:HH2	1.60	0.48
1:q:192:TYR:CD1	1:s:310:CYS:HB3	2.49	0.48
1:q:310:CYS:HB3	1:r:192:TYR:CD1	2.49	0.48
1:q:342:TYR:H	1:s:411:ASN:HD22	1.61	0.48
1:r:310:CYS:HB3	1:s:192:TYR:CD1	2.49	0.48
1:s:47:PHE:HE2	1:s:128:GLN:HB3	1.78	0.48
1:s:341:HIS:CE1	1:s:343:SER:HB2	2.49	0.48
1:s:419:ASP:OD1	1:s:420:HIS:N	2.46	0.48
1:u:66:ILE:HD11	1:u:206:LEU:HD22	1.95	0.48
1:w:56:ILE:HB	1:w:518:PHE:HB2	1.95	0.48
1:w:114:ALA:HB1	1:w:120:TRP:NE1	2.28	0.48
1:w:246:PRO:O	1:w:246:PRO:HG2	2.14	0.48
1:y:419:ASP:OD1	1:y:420:HIS:N	2.46	0.48
1:z:66:ILE:HD11	1:z:206:LEU:HD22	1.95	0.48
1:z:106:GLU:HA	1:z:210:CYS:HB3	1.95	0.48
1:z:223:GLN:HB3	1:z:226:ARG:HB3	1.94	0.48
1:A:65:HIS:NE2	1:E:492:ASP:O	2.43	0.48
1:A:191:PHE:N	1:A:191:PHE:CD1	2.81	0.48
1:B:101:TYR:O	1:B:101:TYR:HD2	1.97	0.48
1:B:223:GLN:HB3	1:B:226:ARG:HB3	1.94	0.48
1:B:341:HIS:CE1	1:B:343:SER:HB2	2.49	0.48
1:B:419:ASP:OD1	1:B:420:HIS:N	2.46	0.48
1:C:120:TRP:CZ3	1:C:516:MET:HG2	2.48	0.48
1:D:178:GLN:HE21	1:D:262:TRP:HH2	1.60	0.48
1:D:223:GLN:HB3	1:D:226:ARG:HB3	1.94	0.48
1:E:127:GLN:HE21	1:P:533:LEU:HD21	1.77	0.48
1:E:246:PRO:O	1:E:246:PRO:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:107:THR:CG2	1:F:209:TYR:HD2	2.25	0.48
1:F:192:TYR:CD1	1:Q:310:CYS:HB3	2.49	0.48
1:F:252:ASN:OD1	1:R:42:ASN:ND2	2.46	0.48
1:F:419:ASP:OD1	1:F:420:HIS:N	2.46	0.48
1:H:47:PHE:HE2	1:H:128:GLN:HB3	1.78	0.48
1:H:107:THR:CG2	1:H:209:TYR:HD2	2.25	0.48
1:H:411:ASN:HD22	1:W:342:TYR:H	1.60	0.48
1:J:246:PRO:O	1:J:246:PRO:HG2	2.14	0.48
1:J:310:CYS:HB3	1:L:192:TYR:CD1	2.48	0.48
1:J:439:TYR:CE1	1:L:469:ALA:CB	2.86	0.48
1:K:106:GLU:HA	1:K:210:CYS:HB3	1.95	0.48
1:K:192:TYR:CD1	1:7:310:CYS:HB3	2.49	0.48
1:L:492:ASP:OD1	1:L:493:VAL:N	2.44	0.48
1:M:178:GLN:HE21	1:M:262:TRP:HH2	1.60	0.48
1:M:257:ARG:N	1:2:37:SER:HG	2.08	0.48
1:O:192:TYR:CD1	1:h:310:CYS:HB3	2.49	0.48
1:O:223:GLN:HB3	1:O:226:ARG:HB3	1.94	0.48
1:O:337:GLU:HA	1:O:338:TRP:C	2.37	0.48
1:P:66:ILE:HD11	1:P:206:LEU:HD22	1.95	0.48
1:Q:47:PHE:HE2	1:Q:128:GLN:HB3	1.78	0.48
1:R:419:ASP:OD1	1:R:420:HIS:N	2.46	0.48
1:S:223:GLN:HB3	1:S:226:ARG:HB3	1.94	0.48
1:T:37:SER:CB	1:U:257:ARG:CG	2.73	0.48
1:T:101:TYR:O	1:T:101:TYR:HD2	1.97	0.48
1:T:252:ASN:OD1	1:c:42:ASN:ND2	2.46	0.48
1:V:419:ASP:OD1	1:V:420:HIS:N	2.46	0.48
1:W:47:PHE:HE2	1:W:128:GLN:HB3	1.78	0.48
1:W:56:ILE:HB	1:W:518:PHE:HB2	1.95	0.48
1:W:415:SER:C	1:Y:371:GLN:HE22	2.21	0.48
1:Y:337:GLU:HA	1:Y:338:TRP:C	2.37	0.48
1:Y:453:ALA:O	1:Y:472:PRO:HD2	2.13	0.48
1:Z:192:TYR:CD1	1:w:310:CYS:HB3	2.48	0.48
1:Z:337:GLU:HA	1:Z:338:TRP:C	2.37	0.48
1:Z:371:GLN:HE22	1:w:415:SER:C	2.22	0.48
1:Z:415:SER:C	1:x:371:GLN:HE22	2.22	0.48
1:1:42:ASN:ND2	1:i:252:ASN:OD1	2.46	0.48
1:2:223:GLN:HB3	1:2:226:ARG:HB3	1.94	0.48
1:3:47:PHE:HE2	1:3:128:GLN:HB3	1.78	0.48
1:4:37:SER:HG	1:b:257:ARG:N	2.11	0.48
1:4:178:GLN:HE21	1:4:262:TRP:HH2	1.60	0.48
1:a:101:TYR:O	1:a:101:TYR:HD2	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:109:TRP:CZ3	1:a:485:LYS:HB2	2.48	0.48
1:a:419:ASP:OD1	1:a:420:HIS:N	2.46	0.48
1:b:66:ILE:HD11	1:b:206:LEU:HD22	1.95	0.48
1:c:66:ILE:HD11	1:c:206:LEU:HD22	1.95	0.48
1:c:191:PHE:N	1:c:191:PHE:CD1	2.81	0.48
1:d:66:ILE:HD11	1:d:206:LEU:HD22	1.95	0.48
1:e:419:ASP:OD1	1:e:420:HIS:N	2.46	0.48
1:f:156:THR:O	1:f:163:THR:OG1	2.25	0.48
1:h:246:PRO:O	1:h:246:PRO:HG2	2.14	0.48
1:i:42:ASN:ND2	1:6:252:ASN:OD1	2.46	0.48
1:i:101:TYR:O	1:i:101:TYR:HD2	1.97	0.48
1:l:178:GLN:HE21	1:l:262:TRP:HH2	1.60	0.48
1:m:419:ASP:OD1	1:m:420:HIS:N	2.46	0.48
1:n:47:PHE:HE2	1:n:128:GLN:HB3	1.78	0.48
1:n:192:TYR:CD1	1:p:310:CYS:HB3	2.48	0.48
1:n:257:ARG:CG	1:s:37:SER:CB	2.73	0.48
1:n:310:CYS:HB3	1:o:192:TYR:CD1	2.49	0.48
1:o:107:THR:CG2	1:o:209:TYR:HD2	2.25	0.48
1:o:127:GLN:HE21	1:u:533:LEU:HD21	1.78	0.48
1:o:310:CYS:HB3	1:p:192:TYR:CD1	2.49	0.48
1:q:114:ALA:HB1	1:q:120:TRP:NE1	2.28	0.48
1:s:66:ILE:HD11	1:s:206:LEU:HD22	1.95	0.48
1:t:310:CYS:HB3	1:u:192:TYR:CD1	2.49	0.48
1:t:379:TYR:CD2	1:t:392:GLU:HG3	2.43	0.48
1:u:191:PHE:N	1:u:191:PHE:CD1	2.81	0.48
1:v:101:TYR:O	1:v:101:TYR:HD2	1.97	0.48
1:v:101:TYR:CZ	1:v:236:GLY:HA3	2.44	0.48
1:w:47:PHE:HE2	1:w:128:GLN:HB3	1.78	0.48
1:x:96:THR:HG21	1:x:221:ILE:CG1	2.43	0.48
1:x:107:THR:CG2	1:x:209:TYR:HD2	2.25	0.48
1:6:56:ILE:HB	1:6:518:PHE:HB2	1.95	0.48
1:6:298:GLU:HA	1:6:299:GLY:HA2	1.56	0.48
1:C:419:ASP:OD1	1:C:420:HIS:N	2.46	0.48
1:D:114:ALA:HB1	1:D:120:TRP:NE1	2.28	0.48
1:D:246:PRO:O	1:D:246:PRO:HG2	2.14	0.48
1:D:341:HIS:CE1	1:D:343:SER:HB2	2.49	0.48
1:E:310:CYS:HB3	1:Q:192:TYR:CD1	2.48	0.48
1:E:453:ALA:O	1:E:472:PRO:HD2	2.13	0.48
1:F:386:ASP:H	1:F:387:GLN:HA	1.79	0.48
1:G:101:TYR:O	1:G:101:TYR:HD2	1.97	0.48
1:H:371:GLN:HE22	1:Y:415:SER:C	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:223:GLN:HB3	1:I:226:ARG:HB3	1.94	0.48
1:I:407:TRP:HE3	1:I:410:LYS:HG2	1.77	0.48
1:J:341:HIS:CE1	1:J:343:SER:HB2	2.49	0.48
1:L:47:PHE:HE2	1:L:128:GLN:HB3	1.78	0.48
1:L:66:ILE:HD11	1:L:206:LEU:HD22	1.95	0.48
1:L:191:PHE:N	1:L:191:PHE:CD1	2.81	0.48
1:M:42:ASN:ND2	1:N:252:ASN:OD1	2.46	0.48
1:M:109:TRP:CZ3	1:M:485:LYS:HB2	2.48	0.48
1:O:341:HIS:CE1	1:O:343:SER:HB2	2.49	0.48
1:P:101:TYR:O	1:P:101:TYR:HD2	1.97	0.48
1:P:246:PRO:O	1:P:246:PRO:HG2	2.14	0.48
1:Q:56:ILE:HB	1:Q:518:PHE:HB2	1.95	0.48
1:R:453:ALA:O	1:R:472:PRO:HD2	2.13	0.48
1:U:37:SER:CB	1:4:257:ARG:CG	2.72	0.48
1:U:56:ILE:HB	1:U:518:PHE:HB2	1.95	0.48
1:V:96:THR:HG21	1:V:221:ILE:CG1	2.43	0.48
1:V:101:TYR:O	1:V:101:TYR:HD2	1.97	0.48
1:V:341:HIS:CE1	1:V:343:SER:HB2	2.49	0.48
1:Z:100:SER:O	1:Z:100:SER:OG	2.23	0.48
1:Z:386:ASP:H	1:Z:387:GLN:HA	1.79	0.48
1:Z:453:ALA:O	1:Z:472:PRO:HD2	2.13	0.48
1:1:47:PHE:HE2	1:1:128:GLN:HB3	1.78	0.48
1:1:66:ILE:HD11	1:1:206:LEU:HD22	1.95	0.48
1:1:100:SER:O	1:1:100:SER:OG	2.23	0.48
1:1:341:HIS:CE1	1:1:343:SER:HB2	2.49	0.48
1:1:453:ALA:O	1:1:472:PRO:HD2	2.13	0.48
1:2:66:ILE:HD11	1:2:206:LEU:HD22	1.95	0.48
1:2:178:GLN:HE21	1:2:262:TRP:HH2	1.60	0.48
1:4:419:ASP:OD1	1:4:420:HIS:N	2.46	0.48
1:5:246:PRO:O	1:5:246:PRO:HG2	2.14	0.48
1:a:223:GLN:HB3	1:a:226:ARG:HB3	1.94	0.48
1:a:453:ALA:O	1:a:472:PRO:HD2	2.13	0.48
1:b:37:SER:HG	1:c:257:ARG:N	2.07	0.48
1:b:47:PHE:HE2	1:b:128:GLN:HB3	1.78	0.48
1:b:101:TYR:O	1:b:101:TYR:HD2	1.97	0.48
1:b:191:PHE:N	1:b:191:PHE:CD1	2.81	0.48
1:c:341:HIS:CE1	1:c:343:SER:HB2	2.49	0.48
1:c:371:GLN:HE22	1:e:415:SER:C	2.22	0.48
1:d:109:TRP:CZ3	1:d:485:LYS:HB2	2.48	0.48
1:d:379:TYR:CD2	1:d:392:GLU:HG3	2.44	0.48
1:e:252:ASN:OD1	1:q:42:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:453:ALA:O	1:f:472:PRO:HD2	2.13	0.48
1:g:341:HIS:CE1	1:g:343:SER:HB2	2.49	0.48
1:h:386:ASP:H	1:h:387:GLN:HA	1.79	0.48
1:i:246:PRO:O	1:i:246:PRO:HG2	2.14	0.48
1:j:106:GLU:HA	1:j:210:CYS:HB3	1.95	0.48
1:k:192:TYR:CD1	1:m:310:CYS:HB3	2.49	0.48
1:k:223:GLN:HB3	1:k:226:ARG:HB3	1.94	0.48
1:m:341:HIS:CE1	1:m:343:SER:HB2	2.49	0.48
1:m:386:ASP:H	1:m:387:GLN:HA	1.79	0.48
1:n:101:TYR:O	1:n:101:TYR:HD2	1.97	0.48
1:n:101:TYR:CZ	1:n:236:GLY:HA3	2.44	0.48
1:n:415:SER:C	1:o:371:GLN:HE22	2.21	0.48
1:o:42:ASN:ND2	1:v:252:ASN:OD1	2.46	0.48
1:o:56:ILE:HB	1:o:518:PHE:HB2	1.95	0.48
1:o:109:TRP:CZ3	1:o:485:LYS:HB2	2.48	0.48
1:o:191:PHE:N	1:o:191:PHE:CD1	2.81	0.48
1:o:386:ASP:H	1:o:387:GLN:HA	1.79	0.48
1:q:223:GLN:HB3	1:q:226:ARG:HB3	1.94	0.48
1:t:223:GLN:HB3	1:t:226:ARG:HB3	1.94	0.48
1:t:246:PRO:O	1:t:246:PRO:HG2	2.14	0.48
1:w:342:TYR:H	1:x:411:ASN:HD22	1.60	0.48
1:x:47:PHE:HE2	1:x:128:GLN:HB3	1.78	0.48
1:x:106:GLU:HA	1:x:210:CYS:HB3	1.95	0.48
1:x:419:ASP:OD1	1:x:420:HIS:N	2.46	0.48
1:y:453:ALA:O	1:y:472:PRO:HD2	2.13	0.48
1:6:127:GLN:HE21	1:7:533:LEU:HD21	1.77	0.48
1:6:386:ASP:H	1:6:387:GLN:HA	1.79	0.48
1:7:96:THR:HG21	1:7:221:ILE:CG1	2.43	0.48
1:7:419:ASP:OD1	1:7:420:HIS:N	2.46	0.48
1:B:106:GLU:HA	1:B:210:CYS:HB3	1.95	0.48
1:C:411:ASN:HD22	1:1:342:TYR:H	1.61	0.48
1:C:533:LEU:HD21	1:L:127:GLN:HE21	1.78	0.48
1:F:56:ILE:HB	1:F:518:PHE:HB2	1.95	0.48
1:F:371:GLN:HE22	1:Q:415:SER:C	2.21	0.48
1:G:114:ALA:HB1	1:G:120:TRP:NE1	2.28	0.48
1:G:120:TRP:CZ3	1:G:516:MET:HG2	2.48	0.48
1:I:379:TYR:CD2	1:I:392:GLU:HG3	2.44	0.48
1:J:453:ALA:O	1:J:472:PRO:HD2	2.13	0.48
1:P:106:GLU:HA	1:P:210:CYS:HB3	1.95	0.48
1:Q:101:TYR:CZ	1:Q:236:GLY:HA3	2.44	0.48
1:R:415:SER:C	1:S:371:GLN:HE22	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:42:ASN:ND2	1:U:252:ASN:OD1	2.46	0.48
1:T:246:PRO:O	1:T:246:PRO:HG2	2.14	0.48
1:U:101:TYR:O	1:U:101:TYR:HD2	1.97	0.48
1:U:341:HIS:CE1	1:U:343:SER:HB2	2.49	0.48
1:V:310:CYS:HB3	1:4:192:TYR:CD1	2.49	0.48
1:V:371:GLN:HE22	1:X:415:SER:C	2.22	0.48
1:W:310:CYS:HB3	1:Y:192:TYR:CD1	2.48	0.48
1:X:178:GLN:HE21	1:X:262:TRP:HH2	1.60	0.48
1:Y:341:HIS:CE1	1:Y:343:SER:HB2	2.49	0.48
1:Z:191:PHE:N	1:Z:191:PHE:CD1	2.81	0.48
1:0:178:GLN:HE21	1:0:262:TRP:HH2	1.60	0.48
1:0:415:SER:C	1:7:371:GLN:HE22	2.22	0.48
1:1:533:LEU:HD21	1:2:127:GLN:HE21	1.77	0.48
1:4:386:ASP:H	1:4:387:GLN:HA	1.79	0.48
1:5:192:TYR:CD1	1:a:310:CYS:HB3	2.49	0.48
1:a:106:GLU:HA	1:a:210:CYS:HB3	1.95	0.48
1:c:47:PHE:HE2	1:c:128:GLN:HB3	1.78	0.48
1:c:453:ALA:O	1:c:472:PRO:HD2	2.13	0.48
1:d:42:ASN:ND2	1:r:252:ASN:OD1	2.46	0.48
1:h:66:ILE:HD11	1:h:206:LEU:HD22	1.95	0.48
1:h:257:ARG:HH11	1:l:35:GLY:C	2.17	0.48
1:h:419:ASP:OD1	1:h:420:HIS:N	2.46	0.48
1:i:37:SER:CB	1:6:257:ARG:CG	2.73	0.48
1:i:106:GLU:HA	1:i:210:CYS:HB3	1.95	0.48
1:j:47:PHE:HE2	1:j:128:GLN:HB3	1.78	0.48
1:j:96:THR:HG21	1:j:221:ILE:CG1	2.43	0.48
1:l:528:TRP:HB3	1:m:246:PRO:HG3	1.86	0.48
1:n:56:ILE:HB	1:n:518:PHE:HB2	1.95	0.48
1:n:106:GLU:HA	1:n:210:CYS:HB3	1.95	0.48
1:p:66:ILE:HD11	1:p:206:LEU:HD22	1.95	0.48
1:p:127:GLN:HE21	1:s:533:LEU:HD21	1.77	0.48
1:p:223:GLN:HB3	1:p:226:ARG:HB3	1.94	0.48
1:p:453:ALA:O	1:p:472:PRO:HD2	2.13	0.48
1:q:246:PRO:O	1:q:246:PRO:HG2	2.14	0.48
1:q:341:HIS:CE1	1:q:343:SER:HB2	2.49	0.48
1:r:156:THR:O	1:r:163:THR:OG1	2.25	0.48
1:s:101:TYR:O	1:s:101:TYR:HD2	1.97	0.48
1:s:107:THR:CG2	1:s:209:TYR:HD2	2.25	0.48
1:u:411:ASN:HD22	1:v:342:TYR:H	1.61	0.48
1:v:56:ILE:HB	1:v:518:PHE:HB2	1.95	0.48
1:v:114:ALA:HB1	1:v:120:TRP:NE1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:341:HIS:CE1	1:v:343:SER:HB2	2.49	0.48
1:y:101:TYR:O	1:y:101:TYR:HD2	1.97	0.48
1:y:178:GLN:HE21	1:y:262:TRP:HH2	1.60	0.48
1:y:415:SER:C	1:z:371:GLN:HE22	2.21	0.48
1:6:101:TYR:HD2	1:6:101:TYR:O	1.97	0.48
1:6:341:HIS:CE1	1:6:343:SER:HB2	2.49	0.48
1:7:341:HIS:CE1	1:7:343:SER:HB2	2.49	0.48
1:B:257:ARG:CG	1:C:37:SER:CB	2.72	0.48
1:B:342:TYR:H	1:L:411:ASN:HD22	1.61	0.48
1:B:453:ALA:O	1:B:472:PRO:HD2	2.13	0.48
1:D:191:PHE:N	1:D:191:PHE:CD1	2.81	0.48
1:E:66:ILE:HD11	1:E:206:LEU:HD22	1.95	0.48
1:E:223:GLN:HB3	1:E:226:ARG:HB3	1.94	0.48
1:E:386:ASP:H	1:E:387:GLN:HA	1.79	0.48
1:F:42:ASN:ND2	1:G:252:ASN:OD1	2.46	0.48
1:G:101:TYR:CZ	1:G:236:GLY:HA3	2.44	0.48
1:G:341:HIS:CE1	1:G:343:SER:HB2	2.49	0.48
1:H:106:GLU:HA	1:H:210:CYS:HB3	1.95	0.48
1:H:246:PRO:O	1:H:246:PRO:HG2	2.14	0.48
1:I:101:TYR:O	1:I:101:TYR:HD2	1.97	0.48
1:I:246:PRO:O	1:I:246:PRO:HG2	2.14	0.48
1:J:127:GLN:HE21	1:K:533:LEU:HD21	1.77	0.48
1:K:310:CYS:HB3	1:0:192:TYR:CD1	2.49	0.48
1:K:371:GLN:HE22	1:7:415:SER:C	2.22	0.48
1:K:407:TRP:HE3	1:K:410:LYS:HG2	1.77	0.48
1:K:419:ASP:OD1	1:K:420:HIS:N	2.46	0.48
1:L:101:TYR:O	1:L:101:TYR:HD2	1.97	0.48
1:M:371:GLN:HE22	1:1:415:SER:C	2.22	0.48
1:M:379:TYR:CD2	1:M:392:GLU:HG3	2.44	0.48
1:N:415:SER:C	1:P:371:GLN:HE22	2.22	0.48
1:O:310:CYS:HB3	1:g:192:TYR:CD1	2.48	0.48
1:P:107:THR:CG2	1:P:209:TYR:HD2	2.25	0.48
1:Q:101:TYR:O	1:Q:101:TYR:HD2	1.97	0.48
1:Q:341:HIS:CE1	1:Q:343:SER:HB2	2.49	0.48
1:R:101:TYR:O	1:R:101:TYR:HD2	1.97	0.48
1:R:178:GLN:HE21	1:R:262:TRP:HH2	1.60	0.48
1:T:106:GLU:HA	1:T:210:CYS:HB3	1.95	0.48
1:U:225:ASP:HB2	1:U:226:ARG:CB	2.36	0.48
1:U:246:PRO:O	1:U:246:PRO:HG2	2.14	0.48
1:V:192:TYR:CD1	1:X:310:CYS:HB3	2.49	0.48
1:V:415:SER:C	1:4:371:GLN:HE22	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:56:ILE:HB	1:X:518:PHE:HB2	1.95	0.48
1:X:191:PHE:N	1:X:191:PHE:CD1	2.81	0.48
1:X:192:TYR:CD1	1:4:310:CYS:HB3	2.49	0.48
1:Y:379:TYR:CD2	1:Y:392:GLU:HG3	2.44	0.48
1:Y:386:ASP:H	1:Y:387:GLN:HA	1.79	0.48
1:Z:341:HIS:CE1	1:Z:343:SER:HB2	2.49	0.48
1:Z:379:TYR:CD2	1:Z:392:GLU:HG3	2.44	0.48
1:0:47:PHE:HE2	1:0:128:GLN:HB3	1.78	0.48
1:0:56:ILE:HB	1:0:518:PHE:HB2	1.95	0.48
1:1:101:TYR:O	1:1:101:TYR:HD2	1.97	0.48
1:2:192:TYR:CD1	1:j:310:CYS:HB3	2.49	0.48
1:2:371:GLN:HE22	1:j:415:SER:C	2.21	0.48
1:2:453:ALA:O	1:2:472:PRO:HD2	2.13	0.48
1:3:106:GLU:HA	1:3:210:CYS:HB3	1.95	0.48
1:3:310:CYS:HB3	1:f:192:TYR:CD1	2.49	0.48
1:4:101:TYR:O	1:4:101:TYR:HD2	1.97	0.48
1:c:101:TYR:O	1:c:101:TYR:HD2	1.97	0.48
1:c:342:TYR:H	1:e:411:ASN:HD22	1.61	0.48
1:c:415:SER:C	1:d:371:GLN:HE22	2.22	0.48
1:c:533:LEU:HD21	1:f:127:GLN:HE21	1.78	0.48
1:d:533:LEU:HD21	1:q:127:GLN:HE21	1.77	0.48
1:e:332:GLY:HA2	1:e:353:GLN:NE2	2.26	0.48
1:f:66:ILE:HD11	1:f:206:LEU:HD22	1.95	0.48
1:f:178:GLN:HE21	1:f:262:TRP:HH2	1.60	0.48
1:g:415:SER:C	1:h:371:GLN:HE22	2.22	0.48
1:h:341:HIS:CE1	1:h:343:SER:HB2	2.49	0.48
1:j:100:SER:O	1:j:100:SER:OG	2.23	0.48
1:k:341:HIS:CE1	1:k:343:SER:HB2	2.49	0.48
1:l:257:ARG:N	1:r:37:SER:HG	2.10	0.48
1:l:341:HIS:CE1	1:l:343:SER:HB2	2.49	0.48
1:m:66:ILE:HD11	1:m:206:LEU:HD22	1.95	0.48
1:o:223:GLN:HB3	1:o:226:ARG:HB3	1.94	0.48
1:p:386:ASP:H	1:p:387:GLN:HA	1.79	0.48
1:s:246:PRO:O	1:s:246:PRO:HG2	2.14	0.48
1:t:257:ARG:N	1:x:37:SER:HG	2.11	0.48
1:w:419:ASP:OD1	1:w:420:HIS:N	2.46	0.48
1:6:246:PRO:O	1:6:246:PRO:HG2	2.14	0.48
1:7:101:TYR:O	1:7:101:TYR:HD2	1.97	0.48
1:A:56:ILE:HB	1:A:518:PHE:HB2	1.95	0.48
1:A:101:TYR:O	1:A:101:TYR:HD2	1.97	0.48
1:B:415:SER:C	1:J:371:GLN:HE22	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:129:LEU:HD11	1:C:136:ILE:HG21	1.96	0.48
1:C:257:ARG:N	1:D:37:SER:HG	2.11	0.48
1:C:341:HIS:CE1	1:C:343:SER:HB2	2.49	0.48
1:D:415:SER:C	1:N:371:GLN:HE22	2.22	0.48
1:D:419:ASP:OD1	1:D:420:HIS:N	2.46	0.48
1:G:56:ILE:HB	1:G:518:PHE:HB2	1.95	0.48
1:H:386:ASP:H	1:H:387:GLN:HA	1.79	0.48
1:J:101:TYR:CZ	1:J:236:GLY:HA3	2.44	0.48
1:K:101:TYR:O	1:K:101:TYR:HD2	1.97	0.48
1:K:246:PRO:O	1:K:246:PRO:HG2	2.14	0.48
1:L:225:ASP:HB2	1:L:226:ARG:CB	2.36	0.48
1:L:246:PRO:O	1:L:246:PRO:HG2	2.14	0.48
1:N:156:THR:O	1:N:163:THR:OG1	2.25	0.48
1:Q:106:GLU:HA	1:Q:210:CYS:HB3	1.95	0.48
1:R:56:ILE:HB	1:R:518:PHE:HB2	1.95	0.48
1:U:47:PHE:HE2	1:U:128:GLN:HB3	1.78	0.48
1:U:66:ILE:HD11	1:U:206:LEU:HD22	1.95	0.48
1:U:386:ASP:H	1:U:387:GLN:HA	1.79	0.48
1:W:419:ASP:OD1	1:W:420:HIS:N	2.46	0.48
1:X:47:PHE:HE2	1:X:128:GLN:HB3	1.78	0.48
1:X:453:ALA:O	1:X:472:PRO:HD2	2.13	0.48
1:Y:106:GLU:HA	1:Y:210:CYS:HB3	1.95	0.48
1:0:310:CYS:HB3	1:7:192:TYR:CD1	2.49	0.48
1:2:101:TYR:O	1:2:101:TYR:HD2	1.97	0.48
1:2:310:CYS:HB3	1:i:192:TYR:CD1	2.49	0.48
1:3:96:THR:HG21	1:3:221:ILE:CG1	2.43	0.48
1:3:386:ASP:H	1:3:387:GLN:HA	1.79	0.48
1:3:415:SER:C	1:f:371:GLN:HE22	2.21	0.48
1:5:101:TYR:O	1:5:101:TYR:HD2	1.97	0.48
1:5:453:ALA:O	1:5:472:PRO:HD2	2.13	0.48
1:c:310:CYS:HB3	1:d:192:TYR:CD1	2.49	0.48
1:d:178:GLN:HE21	1:d:262:TRP:HH2	1.60	0.48
1:f:100:SER:O	1:f:100:SER:OG	2.23	0.48
1:g:101:TYR:O	1:g:101:TYR:HD2	1.97	0.48
1:h:129:LEU:HD11	1:h:136:ILE:HG21	1.96	0.48
1:i:419:ASP:OD1	1:i:420:HIS:N	2.46	0.48
1:l:101:TYR:O	1:l:101:TYR:HD2	1.97	0.48
1:l:246:PRO:O	1:l:246:PRO:HG2	2.14	0.48
1:l:415:SER:C	1:m:371:GLN:HE22	2.21	0.48
1:n:96:THR:HG21	1:n:221:ILE:CG1	2.43	0.48
1:n:341:HIS:CE1	1:n:343:SER:HB2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:191:PHE:N	1:q:191:PHE:CD1	2.81	0.48
1:q:419:ASP:OD1	1:q:420:HIS:N	2.46	0.48
1:s:106:GLU:HA	1:s:210:CYS:HB3	1.95	0.48
1:t:407:TRP:HE3	1:t:410:LYS:HG2	1.77	0.48
1:u:56:ILE:HB	1:u:518:PHE:HB2	1.95	0.48
1:u:101:TYR:O	1:u:101:TYR:HD2	1.97	0.48
1:v:120:TRP:CZ3	1:v:516:MET:HG2	2.48	0.48
1:x:246:PRO:O	1:x:246:PRO:HG2	2.14	0.48
1:6:47:PHE:HE2	1:6:128:GLN:HB3	1.78	0.48
1:6:225:ASP:HB2	1:6:226:ARG:CB	2.36	0.48
1:7:453:ALA:O	1:7:472:PRO:HD2	2.13	0.48
1:A:341:HIS:CE1	1:A:343:SER:HB2	2.49	0.48
1:B:192:TYR:CD1	1:L:310:CYS:HB3	2.49	0.48
1:B:310:CYS:HB3	1:J:192:TYR:CD1	2.49	0.48
1:B:371:GLN:HE22	1:L:415:SER:C	2.22	0.48
1:C:101:TYR:O	1:C:101:TYR:HD2	1.97	0.48
1:C:192:TYR:CD1	1:M:310:CYS:HB3	2.48	0.48
1:C:332:GLY:HA2	1:C:353:GLN:NE2	2.26	0.48
1:D:127:GLN:HE21	1:M:533:LEU:HD21	1.77	0.48
1:E:415:SER:C	1:Q:371:GLN:HE22	2.22	0.48
1:F:223:GLN:HB3	1:F:226:ARG:HB3	1.94	0.48
1:J:178:GLN:HE21	1:J:262:TRP:HH2	1.60	0.48
1:K:332:GLY:HA2	1:K:353:GLN:NE2	2.26	0.48
1:K:386:ASP:H	1:K:387:GLN:HA	1.79	0.48
1:M:96:THR:HG21	1:M:221:ILE:CG1	2.43	0.48
1:M:129:LEU:HD11	1:M:136:ILE:HG21	1.96	0.48
1:M:492:ASP:OD1	1:M:493:VAL:N	2.44	0.48
1:O:42:ASN:ND2	1:P:252:ASN:OD1	2.46	0.48
1:O:342:TYR:H	1:h:411:ASN:HD22	1.61	0.48
1:Q:96:THR:HG21	1:Q:221:ILE:CG1	2.43	0.48
1:S:246:PRO:O	1:S:246:PRO:HG2	2.14	0.48
1:S:379:TYR:CD2	1:S:392:GLU:HG3	2.44	0.48
1:T:192:TYR:CD1	1:f:310:CYS:HB3	2.49	0.48
1:T:419:ASP:OD1	1:T:420:HIS:N	2.46	0.48
1:V:453:ALA:O	1:V:472:PRO:HD2	2.13	0.48
1:W:89:GLN:NE2	1:W:229:GLN:HB2	2.28	0.48
1:X:66:ILE:HD11	1:X:206:LEU:HD22	1.95	0.48
1:X:371:GLN:HE22	1:4:415:SER:C	2.22	0.48
1:Z:101:TYR:O	1:Z:101:TYR:HD2	1.97	0.48
1:0:66:ILE:HD11	1:0:206:LEU:HD22	1.95	0.48
1:0:101:TYR:O	1:0:101:TYR:HD2	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:246:PRO:O	1:1:246:PRO:HG2	2.14	0.48
1:2:101:TYR:CZ	1:2:236:GLY:HA3	2.44	0.48
1:2:106:GLU:HA	1:2:210:CYS:HB3	1.95	0.48
1:2:292:SER:HB2	1:2:303:THR:O	2.14	0.48
1:3:419:ASP:OD1	1:3:420:HIS:N	2.46	0.48
1:4:246:PRO:O	1:4:246:PRO:HG2	2.14	0.48
1:4:407:TRP:HE3	1:4:410:LYS:HG2	1.77	0.48
1:a:212:HIS:CE1	1:b:289:CYS:HA	2.48	0.48
1:b:225:ASP:HB2	1:b:226:ARG:CB	2.36	0.48
1:c:100:SER:O	1:c:100:SER:OG	2.23	0.48
1:c:246:PRO:O	1:c:246:PRO:HG2	2.14	0.48
1:c:411:ASN:HD22	1:d:342:TYR:H	1.60	0.48
1:d:129:LEU:HD11	1:d:136:ILE:HG21	1.96	0.48
1:e:101:TYR:O	1:e:101:TYR:HD2	1.97	0.48
1:e:129:LEU:HD11	1:e:136:ILE:HG21	1.96	0.48
1:e:341:HIS:CE1	1:e:343:SER:HB2	2.49	0.48
1:f:292:SER:HB2	1:f:303:THR:O	2.14	0.48
1:g:246:PRO:O	1:g:246:PRO:HG2	2.14	0.48
1:g:310:CYS:HB3	1:h:192:TYR:CD1	2.49	0.48
1:i:415:SER:C	1:j:371:GLN:HE22	2.21	0.48
1:k:310:CYS:HB3	1:l:192:TYR:CD1	2.48	0.48
1:k:342:TYR:H	1:m:411:ASN:HD22	1.61	0.48
1:l:310:CYS:HB3	1:m:192:TYR:CD1	2.49	0.48
1:m:114:ALA:HB1	1:m:120:TRP:NE1	2.28	0.48
1:m:129:LEU:HD11	1:m:136:ILE:HG21	1.96	0.48
1:n:371:GLN:HE22	1:p:415:SER:C	2.22	0.48
1:q:371:GLN:HE22	1:s:415:SER:C	2.22	0.48
1:q:415:SER:C	1:r:371:GLN:HE22	2.22	0.48
1:r:96:THR:HG21	1:r:221:ILE:CG1	2.43	0.48
1:r:415:SER:C	1:s:371:GLN:HE22	2.22	0.48
1:t:47:PHE:HE2	1:t:128:GLN:HB3	1.78	0.48
1:t:101:TYR:O	1:t:101:TYR:HD2	1.97	0.48
1:v:106:GLU:HA	1:v:210:CYS:HB3	1.95	0.48
1:y:56:ILE:HB	1:y:518:PHE:HB2	1.95	0.48
1:z:101:TYR:O	1:z:101:TYR:HD2	1.97	0.48
1:z:379:TYR:CD2	1:z:392:GLU:HG3	2.44	0.48
1:z:453:ALA:O	1:z:472:PRO:HD2	2.13	0.48
1:6:66:ILE:HD11	1:6:206:LEU:HD22	1.95	0.48
1:B:114:ALA:HB1	1:B:120:TRP:NE1	2.28	0.47
1:C:66:ILE:HD11	1:C:206:LEU:HD22	1.95	0.47
1:D:371:GLN:HE22	1:P:415:SER:C	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:96:THR:HG21	1:E:221:ILE:CG1	2.43	0.47
1:F:101:TYR:O	1:F:101:TYR:HD2	1.97	0.47
1:G:292:SER:HB2	1:G:303:THR:O	2.14	0.47
1:G:379:TYR:CD2	1:G:392:GLU:HG3	2.44	0.47
1:H:341:HIS:CE1	1:H:343:SER:HB2	2.49	0.47
1:I:419:ASP:OD1	1:I:420:HIS:N	2.46	0.47
1:J:101:TYR:O	1:J:101:TYR:HD2	1.97	0.47
1:J:386:ASP:H	1:J:387:GLN:HA	1.79	0.47
1:K:257:ARG:CG	1:6:37:SER:HG	2.00	0.47
1:M:257:ARG:HH11	1:2:35:GLY:C	2.17	0.47
1:M:342:TYR:H	1:1:411:ASN:HD22	1.61	0.47
1:N:96:THR:HG21	1:N:221:ILE:CG1	2.43	0.47
1:R:246:PRO:O	1:R:246:PRO:HG2	2.14	0.47
1:R:310:CYS:HB3	1:S:192:TYR:CD1	2.49	0.47
1:S:453:ALA:O	1:S:472:PRO:HD2	2.13	0.47
1:T:415:SER:C	1:3:371:GLN:HE22	2.21	0.47
1:X:101:TYR:O	1:X:101:TYR:HD2	1.97	0.47
1:Y:101:TYR:O	1:Y:101:TYR:HD2	1.97	0.47
1:0:453:ALA:O	1:0:472:PRO:HD2	2.13	0.47
1:2:341:HIS:CE1	1:2:343:SER:HB2	2.49	0.47
1:3:453:ALA:O	1:3:472:PRO:HD2	2.13	0.47
1:3:533:LEU:HD21	1:h:127:GLN:HE21	1.77	0.47
1:4:124:ALA:HB2	1:5:529:ASN:O	2.14	0.47
1:4:533:LEU:HD21	1:5:127:GLN:HE21	1.78	0.47
1:a:127:GLN:HE21	1:t:533:LEU:HD21	1.78	0.47
1:b:246:PRO:O	1:b:246:PRO:HG2	2.14	0.47
1:e:66:ILE:HD11	1:e:206:LEU:HD22	1.95	0.47
1:f:101:TYR:O	1:f:101:TYR:HD2	1.97	0.47
1:f:106:GLU:HA	1:f:210:CYS:HB3	1.95	0.47
1:f:159:GLY:N	1:f:162:GLU:OE2	2.48	0.47
1:f:341:HIS:CE1	1:f:343:SER:HB2	2.49	0.47
1:h:114:ALA:HB1	1:h:120:TRP:NE1	2.28	0.47
1:j:37:SER:HG	1:k:257:ARG:CG	1.98	0.47
1:j:252:ASN:OD1	1:z:42:ASN:ND2	2.46	0.47
1:j:332:GLY:HA2	1:j:353:GLN:NE2	2.26	0.47
1:j:419:ASP:OD1	1:j:420:HIS:N	2.46	0.47
1:k:42:ASN:ND2	1:s:252:ASN:OD1	2.46	0.47
1:k:101:TYR:O	1:k:101:TYR:HD2	1.97	0.47
1:m:178:GLN:HE21	1:m:262:TRP:HH2	1.60	0.47
1:n:66:ILE:HD11	1:n:206:LEU:HD22	1.95	0.47
1:n:379:TYR:CD2	1:n:392:GLU:HG3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:101:TYR:O	1:o:101:TYR:HD2	1.97	0.47
1:q:129:LEU:HD11	1:q:136:ILE:HG21	1.96	0.47
1:u:341:HIS:CE1	1:u:343:SER:HB2	2.49	0.47
1:v:124:ALA:HB2	1:x:529:ASN:O	2.14	0.47
1:x:56:ILE:HB	1:x:518:PHE:HB2	1.95	0.47
1:x:386:ASP:H	1:x:387:GLN:HA	1.79	0.47
1:y:107:THR:CG2	1:y:209:TYR:HD2	2.25	0.47
1:y:310:CYS:HB3	1:z:192:TYR:CD1	2.49	0.47
1:D:129:LEU:HD11	1:D:136:ILE:HG21	1.96	0.47
1:E:101:TYR:O	1:E:101:TYR:HD2	1.97	0.47
1:E:159:GLY:N	1:E:162:GLU:OE2	2.48	0.47
1:F:66:ILE:HD11	1:F:206:LEU:HD22	1.95	0.47
1:G:106:GLU:HA	1:G:210:CYS:HB3	1.95	0.47
1:G:129:LEU:HD11	1:G:136:ILE:HG21	1.96	0.47
1:G:156:THR:O	1:G:163:THR:OG1	2.25	0.47
1:G:159:GLY:N	1:G:162:GLU:OE2	2.48	0.47
1:H:56:ILE:HB	1:H:518:PHE:HB2	1.95	0.47
1:H:192:TYR:CD1	1:Y:310:CYS:HB3	2.49	0.47
1:I:47:PHE:HE2	1:I:128:GLN:HB3	1.78	0.47
1:K:100:SER:O	1:K:100:SER:OG	2.23	0.47
1:K:342:TYR:H	1:7:411:ASN:HD22	1.61	0.47
1:M:192:TYR:CD1	1:1:310:CYS:HB3	2.49	0.47
1:N:56:ILE:HB	1:N:518:PHE:HB2	1.95	0.47
1:O:101:TYR:O	1:O:101:TYR:HD2	1.97	0.47
1:S:42:ASN:ND2	1:3:252:ASN:OD1	2.46	0.47
1:S:101:TYR:O	1:S:101:TYR:HD2	1.97	0.47
1:S:159:GLY:N	1:S:162:GLU:OE2	2.48	0.47
1:T:439:TYR:CE1	1:3:469:ALA:CB	2.86	0.47
1:U:533:LEU:HD21	1:V:127:GLN:HE21	1.78	0.47
1:V:156:THR:O	1:V:163:THR:OG1	2.25	0.47
1:V:292:SER:HB2	1:V:303:THR:O	2.14	0.47
1:X:106:GLU:HA	1:X:210:CYS:HB3	1.95	0.47
1:Y:292:SER:HB2	1:Y:303:THR:O	2.14	0.47
1:Z:106:GLU:HA	1:Z:210:CYS:HB3	1.95	0.47
1:0:129:LEU:HD11	1:0:136:ILE:HG21	1.96	0.47
1:2:159:GLY:N	1:2:162:GLU:OE2	2.48	0.47
1:4:109:TRP:CZ3	1:4:485:LYS:HB2	2.48	0.47
1:4:332:GLY:HA2	1:4:353:GLN:NE2	2.26	0.47
1:5:101:TYR:CZ	1:5:236:GLY:HA3	2.44	0.47
1:5:178:GLN:HE21	1:5:262:TRP:HH2	1.60	0.47
1:5:386:ASP:H	1:5:387:GLN:HA	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:98:ASN:HB2	1:b:316:ARG:HH21	1.74	0.47
1:b:107:THR:CG2	1:b:209:TYR:HD2	2.25	0.47
1:b:379:TYR:CD2	1:b:392:GLU:HG3	2.43	0.47
1:d:56:ILE:HB	1:d:518:PHE:HB2	1.95	0.47
1:d:96:THR:HG21	1:d:221:ILE:CG1	2.43	0.47
1:e:257:ARG:N	1:q:37:SER:HG	2.11	0.47
1:g:292:SER:HB2	1:g:303:THR:O	2.14	0.47
1:g:386:ASP:H	1:g:387:GLN:HA	1.79	0.47
1:g:528:TRP:HB3	1:h:246:PRO:HG3	1.85	0.47
1:i:129:LEU:HD11	1:i:136:ILE:HG21	1.96	0.47
1:i:379:TYR:CD2	1:i:392:GLU:HG3	2.44	0.47
1:j:101:TYR:O	1:j:101:TYR:HD2	1.97	0.47
1:k:453:ALA:O	1:k:472:PRO:HD2	2.13	0.47
1:o:528:TRP:HB3	1:p:246:PRO:HG3	1.85	0.47
1:p:101:TYR:HD2	1:p:101:TYR:O	1.97	0.47
1:p:101:TYR:CZ	1:p:236:GLY:HA3	2.44	0.47
1:r:56:ILE:HB	1:r:518:PHE:HB2	1.95	0.47
1:r:292:SER:HB2	1:r:303:THR:O	2.14	0.47
1:t:332:GLY:HA2	1:t:353:GLN:NE2	2.26	0.47
1:t:386:ASP:H	1:t:387:GLN:HA	1.79	0.47
1:u:292:SER:HB2	1:u:303:THR:O	2.14	0.47
1:u:310:CYS:HB3	1:v:192:TYR:CD1	2.49	0.47
1:v:292:SER:HB2	1:v:303:THR:O	2.14	0.47
1:w:89:GLN:NE2	1:w:229:GLN:HB2	2.29	0.47
1:w:192:TYR:CD1	1:x:310:CYS:HB3	2.49	0.47
1:y:59:HIS:HE1	1:y:515:LYS:HZ1	1.61	0.47
1:z:159:GLY:N	1:z:162:GLU:OE2	2.48	0.47
1:z:246:PRO:O	1:z:246:PRO:HG2	2.14	0.47
1:7:156:THR:O	1:7:163:THR:OG1	2.25	0.47
1:7:246:PRO:O	1:7:246:PRO:HG2	2.14	0.47
1:A:159:GLY:N	1:A:162:GLU:OE2	2.48	0.47
1:B:96:THR:HG21	1:B:221:ILE:CG1	2.43	0.47
1:B:127:GLN:HE21	1:I:533:LEU:HD21	1.78	0.47
1:B:159:GLY:N	1:B:162:GLU:OE2	2.48	0.47
1:C:179:ASP:O	1:C:480:GLY:HA3	2.15	0.47
1:C:246:PRO:O	1:C:246:PRO:HG2	2.14	0.47
1:C:386:ASP:H	1:C:387:GLN:HA	1.79	0.47
1:D:386:ASP:H	1:D:387:GLN:HA	1.79	0.47
1:E:439:TYR:CE1	1:Q:469:ALA:CB	2.87	0.47
1:F:292:SER:HB2	1:F:303:THR:O	2.14	0.47
1:G:419:ASP:OD1	1:G:420:HIS:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:310:CYS:HB3	1:W:192:TYR:CD1	2.49	0.47
1:I:332:GLY:HA2	1:I:353:GLN:NE2	2.26	0.47
1:K:109:TRP:CZ3	1:K:485:LYS:HB2	2.48	0.47
1:K:292:SER:HB2	1:K:303:THR:O	2.14	0.47
1:K:415:SER:C	1:0:371:GLN:HE22	2.22	0.47
1:L:386:ASP:H	1:L:387:GLN:HA	1.79	0.47
1:M:56:ILE:HB	1:M:518:PHE:HB2	1.95	0.47
1:O:66:ILE:HD11	1:O:206:LEU:HD22	1.95	0.47
1:O:129:LEU:HD11	1:O:136:ILE:HG21	1.96	0.47
1:O:419:ASP:OD1	1:O:420:HIS:N	2.46	0.47
1:P:292:SER:HB2	1:P:303:THR:O	2.14	0.47
1:Q:66:ILE:HD11	1:Q:206:LEU:HD22	1.95	0.47
1:Q:453:ALA:O	1:Q:472:PRO:HD2	2.13	0.47
1:R:159:GLY:N	1:R:162:GLU:OE2	2.48	0.47
1:S:310:CYS:HB3	1:U:192:TYR:CD1	2.49	0.47
1:U:124:ALA:HB2	1:V:529:ASN:O	2.15	0.47
1:U:292:SER:HB2	1:U:303:THR:O	2.14	0.47
1:V:246:PRO:O	1:V:246:PRO:HG2	2.14	0.47
1:V:411:ASN:HD22	1:4:342:TYR:H	1.61	0.47
1:X:129:LEU:HD11	1:X:136:ILE:HG21	1.96	0.47
1:1:379:TYR:CD2	1:1:392:GLU:HG3	2.44	0.47
1:2:100:SER:O	1:2:100:SER:OG	2.23	0.47
1:2:528:TRP:HB3	1:i:246:PRO:HG3	1.85	0.47
1:3:101:TYR:O	1:3:101:TYR:HD2	1.97	0.47
1:3:332:GLY:HA2	1:3:353:GLN:NE2	2.26	0.47
1:4:292:SER:HB2	1:4:303:THR:O	2.14	0.47
1:5:129:LEU:HD11	1:5:136:ILE:HG21	1.96	0.47
1:a:96:THR:HG21	1:a:221:ILE:CG1	2.43	0.47
1:a:114:ALA:HB1	1:a:120:TRP:NE1	2.28	0.47
1:a:469:ALA:HB2	1:b:439:TYR:CZ	2.49	0.47
1:d:257:ARG:HH11	1:f:35:GLY:C	2.17	0.47
1:d:310:CYS:HB3	1:e:192:TYR:CD1	2.49	0.47
1:d:341:HIS:CE1	1:d:343:SER:HB2	2.49	0.47
1:h:178:GLN:HE21	1:h:262:TRP:HH2	1.60	0.47
1:h:292:SER:HB2	1:h:303:THR:O	2.14	0.47
1:j:341:HIS:CE1	1:j:343:SER:HB2	2.49	0.47
1:j:386:ASP:H	1:j:387:GLN:HA	1.79	0.47
1:j:453:ALA:O	1:j:472:PRO:HD2	2.13	0.47
1:k:66:ILE:HD11	1:k:206:LEU:HD22	1.95	0.47
1:k:419:ASP:OD1	1:k:420:HIS:N	2.46	0.47
1:l:96:THR:HG21	1:l:221:ILE:CG1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:292:SER:HB2	1:l:303:THR:O	2.14	0.47
1:l:332:GLY:HA2	1:l:353:GLN:NE2	2.26	0.47
1:l:386:ASP:H	1:l:387:GLN:HA	1.79	0.47
1:m:292:SER:HB2	1:m:303:THR:O	2.14	0.47
1:n:134:ARG:O	1:n:276:LEU:N	2.32	0.47
1:n:453:ALA:O	1:n:472:PRO:HD2	2.13	0.47
1:o:66:ILE:HD11	1:o:206:LEU:HD22	1.95	0.47
1:o:246:PRO:O	1:o:246:PRO:HG2	2.14	0.47
1:o:292:SER:HB2	1:o:303:THR:O	2.14	0.47
1:p:96:THR:HG21	1:p:221:ILE:CG1	2.43	0.47
1:p:159:GLY:N	1:p:162:GLU:OE2	2.48	0.47
1:q:106:GLU:HA	1:q:210:CYS:HB3	1.95	0.47
1:q:159:GLY:N	1:q:162:GLU:OE2	2.48	0.47
1:q:292:SER:HB2	1:q:303:THR:O	2.14	0.47
1:q:386:ASP:H	1:q:387:GLN:HA	1.79	0.47
1:r:129:LEU:HD11	1:r:136:ILE:HG21	1.96	0.47
1:s:292:SER:HB2	1:s:303:THR:O	2.14	0.47
1:t:107:THR:CG2	1:t:209:TYR:HD2	2.25	0.47
1:t:419:ASP:OD1	1:t:420:HIS:N	2.46	0.47
1:v:129:LEU:HD11	1:v:136:ILE:HG21	1.96	0.47
1:v:159:GLY:N	1:v:162:GLU:OE2	2.48	0.47
1:v:379:TYR:CD2	1:v:392:GLU:HG3	2.43	0.47
1:v:419:ASP:OD1	1:v:420:HIS:N	2.46	0.47
1:x:341:HIS:CE1	1:x:343:SER:HB2	2.49	0.47
1:y:159:GLY:N	1:y:162:GLU:OE2	2.48	0.47
1:y:246:PRO:O	1:y:246:PRO:HG2	2.14	0.47
1:y:292:SER:HB2	1:y:303:THR:O	2.14	0.47
1:z:310:CYS:HB3	1:6:192:TYR:CD1	2.49	0.47
1:6:292:SER:HB2	1:6:303:THR:O	2.14	0.47
1:6:533:LEU:HD21	1:7:127:GLN:HE21	1.78	0.47
1:A:161:GLN:HB3	1:E:158:ALA:HA	1.95	0.47
1:A:292:SER:HB2	1:A:303:THR:O	2.14	0.47
1:D:56:ILE:HB	1:D:518:PHE:HB2	1.95	0.47
1:D:106:GLU:HA	1:D:210:CYS:HB3	1.95	0.47
1:D:159:GLY:N	1:D:162:GLU:OE2	2.48	0.47
1:D:292:SER:HB2	1:D:303:THR:O	2.14	0.47
1:G:124:ALA:HB2	1:H:529:ASN:O	2.14	0.47
1:I:386:ASP:H	1:I:387:GLN:HA	1.79	0.47
1:J:106:GLU:HA	1:J:210:CYS:HB3	1.95	0.47
1:J:129:LEU:HD11	1:J:136:ILE:HG21	1.96	0.47
1:J:411:ASN:HD22	1:L:342:TYR:H	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:191:PHE:N	1:K:191:PHE:CD1	2.81	0.47
1:L:292:SER:HB2	1:L:303:THR:O	2.14	0.47
1:L:379:TYR:CD2	1:L:392:GLU:HG3	2.44	0.47
1:M:246:PRO:O	1:M:246:PRO:HG2	2.14	0.47
1:M:292:SER:HB2	1:M:303:THR:O	2.14	0.47
1:N:124:ALA:HB2	1:O:529:ASN:O	2.15	0.47
1:N:129:LEU:HD11	1:N:136:ILE:HG21	1.96	0.47
1:N:246:PRO:O	1:N:246:PRO:HG2	2.14	0.47
1:N:292:SER:HB2	1:N:303:THR:O	2.14	0.47
1:O:56:ILE:HB	1:O:518:PHE:HB2	1.95	0.47
1:O:257:ARG:CG	1:3:37:SER:HG	1.99	0.47
1:O:453:ALA:O	1:O:472:PRO:HD2	2.13	0.47
1:O:469:ALA:CB	1:h:439:TYR:CE1	2.87	0.47
1:P:179:ASP:O	1:P:480:GLY:HA3	2.15	0.47
1:Q:379:TYR:CD2	1:Q:392:GLU:HG3	2.44	0.47
1:R:292:SER:HB2	1:R:303:THR:O	2.14	0.47
1:T:129:LEU:HD11	1:T:136:ILE:HG21	1.96	0.47
1:V:107:THR:CG2	1:V:209:TYR:HD2	2.25	0.47
1:W:528:TRP:HB3	1:Y:246:PRO:HG3	1.86	0.47
1:Y:263:GLU:HA	1:Y:264:SER:HA	1.75	0.47
1:Z:292:SER:HB2	1:Z:303:THR:O	2.14	0.47
1:Z:310:CYS:HB3	1:x:192:TYR:CD1	2.49	0.47
1:0:106:GLU:HA	1:0:210:CYS:HB3	1.95	0.47
1:2:107:THR:CG2	1:2:209:TYR:HD2	2.25	0.47
1:3:129:LEU:HD11	1:3:136:ILE:HG21	1.96	0.47
1:3:191:PHE:N	1:3:191:PHE:CD1	2.81	0.47
1:4:191:PHE:N	1:4:191:PHE:CD1	2.81	0.47
1:5:106:GLU:HA	1:5:210:CYS:HB3	1.95	0.47
1:5:257:ARG:HH11	1:t:35:GLY:C	2.17	0.47
1:a:98:ASN:HD22	1:b:316:ARG:HH22	1.62	0.47
1:a:159:GLY:N	1:a:162:GLU:OE2	2.48	0.47
1:b:127:GLN:HE21	1:e:533:LEU:HD21	1.78	0.47
1:b:292:SER:HB2	1:b:303:THR:O	2.14	0.47
1:d:246:PRO:O	1:d:246:PRO:HG2	2.14	0.47
1:e:225:ASP:HB2	1:e:226:ARG:CB	2.36	0.47
1:e:246:PRO:O	1:e:246:PRO:HG2	2.14	0.47
1:e:386:ASP:H	1:e:387:GLN:HA	1.79	0.47
1:h:453:ALA:O	1:h:472:PRO:HD2	2.13	0.47
1:i:439:TYR:CE1	1:j:469:ALA:CB	2.86	0.47
1:j:129:LEU:HD11	1:j:136:ILE:HG21	1.96	0.47
1:j:191:PHE:N	1:j:191:PHE:CD1	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:56:ILE:HB	1:k:518:PHE:HB2	1.95	0.47
1:k:129:LEU:HD11	1:k:136:ILE:HG21	1.96	0.47
1:m:109:TRP:CZ3	1:m:485:LYS:HB2	2.48	0.47
1:o:529:ASN:O	1:u:124:ALA:HB2	2.14	0.47
1:u:47:PHE:HE2	1:u:128:GLN:HB3	1.78	0.47
1:u:159:GLY:N	1:u:162:GLU:OE2	2.48	0.47
1:v:246:PRO:O	1:v:246:PRO:HG2	2.14	0.47
1:y:109:TRP:CZ3	1:y:485:LYS:HB2	2.48	0.47
1:z:386:ASP:H	1:z:387:GLN:HA	1.79	0.47
1:6:96:THR:HG21	1:6:221:ILE:CG1	2.43	0.47
1:6:124:ALA:HB2	1:7:529:ASN:O	2.15	0.47
1:7:292:SER:HB2	1:7:303:THR:O	2.14	0.47
1:A:47:PHE:HE2	1:A:128:GLN:HB3	1.78	0.47
1:A:179:ASP:O	1:A:480:GLY:HA3	2.15	0.47
1:A:411:ASN:HD22	1:G:342:TYR:H	1.61	0.47
1:B:469:ALA:CB	1:L:439:TYR:CE1	2.87	0.47
1:C:106:GLU:HA	1:C:210:CYS:HB3	1.95	0.47
1:C:159:GLY:N	1:C:162:GLU:OE2	2.48	0.47
1:C:528:TRP:CB	1:1:246:PRO:CG	2.65	0.47
1:E:246:PRO:HG3	1:F:528:TRP:HB3	1.85	0.47
1:F:246:PRO:O	1:F:246:PRO:HG2	2.14	0.47
1:G:310:CYS:HB3	1:I:192:TYR:CD1	2.49	0.47
1:K:179:ASP:O	1:K:480:GLY:HA3	2.15	0.47
1:L:453:ALA:O	1:L:472:PRO:HD2	2.13	0.47
1:M:159:GLY:N	1:M:162:GLU:OE2	2.48	0.47
1:M:341:HIS:CE1	1:M:343:SER:HB2	2.49	0.47
1:N:47:PHE:HE2	1:N:128:GLN:HB3	1.78	0.47
1:O:159:GLY:N	1:O:162:GLU:OE2	2.48	0.47
1:O:386:ASP:H	1:O:387:GLN:HA	1.79	0.47
1:O:415:SER:C	1:g:371:GLN:HE22	2.22	0.47
1:R:257:ARG:CG	1:V:37:SER:CB	2.73	0.47
1:S:386:ASP:H	1:S:387:GLN:HA	1.79	0.47
1:S:411:ASN:HD22	1:U:342:TYR:H	1.60	0.47
1:T:246:PRO:HG3	1:f:528:TRP:HB3	1.85	0.47
1:Z:342:TYR:H	1:w:411:ASN:HD22	1.60	0.47
1:0:156:THR:O	1:0:163:THR:OG1	2.25	0.47
1:1:106:GLU:HA	1:1:210:CYS:HB3	1.95	0.47
1:3:341:HIS:CE1	1:3:343:SER:HB2	2.49	0.47
1:4:161:GLN:HB3	1:b:158:ALA:HA	1.96	0.47
1:4:179:ASP:O	1:4:480:GLY:HA3	2.15	0.47
1:5:417:LEU:HB2	1:b:338:TRP:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:42:ASN:ND2	1:u:252:ASN:OD1	2.47	0.47
1:b:386:ASP:H	1:b:387:GLN:HA	1.79	0.47
1:c:379:TYR:CD2	1:c:392:GLU:HG3	2.44	0.47
1:e:89:GLN:NE2	1:e:229:GLN:HB2	2.28	0.47
1:e:106:GLU:HA	1:e:210:CYS:HB3	1.95	0.47
1:e:179:ASP:O	1:e:480:GLY:HA3	2.15	0.47
1:e:292:SER:HB2	1:e:303:THR:O	2.14	0.47
1:e:298:GLU:HA	1:e:299:GLY:HA2	1.56	0.47
1:f:107:THR:CG2	1:f:209:TYR:HD2	2.25	0.47
1:g:96:THR:HG21	1:g:221:ILE:CG1	2.43	0.47
1:g:332:GLY:HA2	1:g:353:GLN:NE2	2.26	0.47
1:h:56:ILE:HB	1:h:518:PHE:HB2	1.95	0.47
1:i:310:CYS:HB3	1:j:192:TYR:CD1	2.49	0.47
1:i:341:HIS:CE1	1:i:343:SER:HB2	2.49	0.47
1:k:159:GLY:N	1:k:162:GLU:OE2	2.48	0.47
1:k:415:SER:C	1:l:371:GLN:HE22	2.22	0.47
1:n:257:ARG:HH11	1:s:35:GLY:C	2.17	0.47
1:o:415:SER:C	1:p:371:GLN:HE22	2.21	0.47
1:p:379:TYR:CD2	1:p:392:GLU:HG3	2.44	0.47
1:q:56:ILE:HB	1:q:518:PHE:HB2	1.95	0.47
1:r:246:PRO:O	1:r:246:PRO:HG2	2.14	0.47
1:u:179:ASP:O	1:u:480:GLY:HA3	2.15	0.47
1:v:156:THR:O	1:v:163:THR:OG1	2.25	0.47
1:x:191:PHE:CD1	1:x:191:PHE:N	2.81	0.47
1:y:298:GLU:HA	1:y:299:GLY:HA2	1.56	0.47
1:z:411:ASN:HD22	1:6:342:TYR:H	1.61	0.47
1:7:107:THR:CG2	1:7:209:TYR:HD2	2.25	0.47
1:B:191:PHE:CD1	1:B:191:PHE:N	2.81	0.47
1:B:292:SER:HB2	1:B:303:THR:O	2.14	0.47
1:B:529:ASN:O	1:I:124:ALA:HB2	2.14	0.47
1:C:89:GLN:NE2	1:C:229:GLN:HB2	2.28	0.47
1:D:298:GLU:HA	1:D:299:GLY:HA2	1.56	0.47
1:E:379:TYR:CD2	1:E:392:GLU:HG3	2.44	0.47
1:G:66:ILE:HD11	1:G:206:LEU:HD22	1.95	0.47
1:G:191:PHE:N	1:G:191:PHE:CD1	2.81	0.47
1:H:100:SER:O	1:H:100:SER:OG	2.23	0.47
1:H:101:TYR:O	1:H:101:TYR:HD2	1.97	0.47
1:H:191:PHE:N	1:H:191:PHE:CD1	2.81	0.47
1:I:107:THR:CG2	1:I:209:TYR:HD2	2.25	0.47
1:K:107:THR:CG2	1:K:209:TYR:HD2	2.25	0.47
1:M:179:ASP:O	1:M:480:GLY:HA3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:371:GLN:HE22	1:h:415:SER:C	2.22	0.47
1:R:109:TRP:CZ3	1:R:485:LYS:HB2	2.48	0.47
1:T:310:CYS:HB3	1:3:192:TYR:CD1	2.49	0.47
1:T:341:HIS:CE1	1:T:343:SER:HB2	2.49	0.47
1:T:379:TYR:CD2	1:T:392:GLU:HG3	2.44	0.47
1:V:129:LEU:HD11	1:V:136:ILE:HG21	1.96	0.47
1:V:386:ASP:H	1:V:387:GLN:HA	1.79	0.47
1:W:411:ASN:HD22	1:Y:342:TYR:H	1.61	0.47
1:0:292:SER:HB2	1:0:303:THR:O	2.14	0.47
1:3:109:TRP:CZ3	1:3:485:LYS:HB2	2.48	0.47
1:3:124:ALA:HB2	1:h:529:ASN:O	2.14	0.47
1:a:191:PHE:CD1	1:a:191:PHE:N	2.81	0.47
1:a:292:SER:HB2	1:a:303:THR:O	2.14	0.47
1:b:453:ALA:O	1:b:472:PRO:HD2	2.13	0.47
1:d:159:GLY:N	1:d:162:GLU:OE2	2.48	0.47
1:d:179:ASP:O	1:d:480:GLY:HA3	2.15	0.47
1:d:292:SER:HB2	1:d:303:THR:O	2.14	0.47
1:g:35:GLY:C	1:m:257:ARG:HH11	2.17	0.47
1:g:56:ILE:HB	1:g:518:PHE:HB2	1.95	0.47
1:g:179:ASP:O	1:g:480:GLY:HA3	2.15	0.47
1:h:159:GLY:N	1:h:162:GLU:OE2	2.48	0.47
1:i:191:PHE:CD1	1:i:191:PHE:N	2.81	0.47
1:j:124:ALA:HB2	1:m:529:ASN:O	2.14	0.47
1:j:246:PRO:O	1:j:246:PRO:HG2	2.13	0.47
1:k:371:GLN:HE22	1:m:415:SER:C	2.22	0.47
1:k:529:ASN:O	1:r:124:ALA:HB2	2.15	0.47
1:m:101:TYR:O	1:m:101:TYR:HD2	1.97	0.47
1:n:469:ALA:CB	1:p:439:TYR:CE1	2.87	0.47
1:o:159:GLY:N	1:o:162:GLU:OE2	2.48	0.47
1:s:179:ASP:O	1:s:480:GLY:HA3	2.15	0.47
1:t:192:TYR:CD1	1:v:310:CYS:HB3	2.49	0.47
1:z:156:THR:O	1:z:163:THR:OG1	2.25	0.47
1:7:129:LEU:HD11	1:7:136:ILE:HG21	1.96	0.47
1:7:159:GLY:N	1:7:162:GLU:OE2	2.48	0.47
1:A:252:ASN:OD1	1:B:42:ASN:ND2	2.47	0.47
1:A:386:ASP:H	1:A:387:GLN:HA	1.79	0.47
1:A:390:MET:HA	1:A:391:ARG:HA	1.72	0.47
1:B:267:TYR:CE2	1:B:479:PRO:HD3	2.50	0.47
1:C:225:ASP:HB2	1:C:226:ARG:CB	2.36	0.47
1:C:292:SER:HB2	1:C:303:THR:O	2.14	0.47
1:D:107:THR:CG2	1:D:209:TYR:HD2	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:124:ALA:HB2	1:M:529:ASN:O	2.15	0.47
1:D:179:ASP:O	1:D:480:GLY:HA3	2.15	0.47
1:E:124:ALA:HB2	1:P:529:ASN:O	2.15	0.47
1:E:129:LEU:HD11	1:E:136:ILE:HG21	1.96	0.47
1:E:267:TYR:CE2	1:E:479:PRO:HD3	2.50	0.47
1:E:371:GLN:HE22	1:F:415:SER:C	2.22	0.47
1:F:159:GLY:N	1:F:162:GLU:OE2	2.48	0.47
1:F:287:GLY:H	1:F:325:ARG:HH12	1.63	0.47
1:G:246:PRO:O	1:G:246:PRO:HG2	2.14	0.47
1:G:390:MET:HA	1:G:391:ARG:HA	1.72	0.47
1:H:346:GLY:CA	1:Y:284:ARG:HD2	2.44	0.47
1:H:523:ARG:NH2	1:H:563:MET:HE3	2.30	0.47
1:I:129:LEU:HD11	1:I:136:ILE:HG21	1.96	0.47
1:J:115:ASN:C	1:J:190:ASN:HD21	2.23	0.47
1:J:159:GLY:N	1:J:162:GLU:OE2	2.48	0.47
1:K:159:GLY:N	1:K:162:GLU:OE2	2.48	0.47
1:K:343:SER:OG	1:K:344:THR:N	2.48	0.47
1:K:523:ARG:NH2	1:K:563:MET:HE3	2.30	0.47
1:L:129:LEU:HD11	1:L:136:ILE:HG21	1.96	0.47
1:L:267:TYR:CE2	1:L:479:PRO:HD3	2.50	0.47
1:M:89:GLN:NE2	1:M:229:GLN:HB2	2.28	0.47
1:N:101:TYR:O	1:N:101:TYR:HD2	1.97	0.47
1:N:341:HIS:CE1	1:N:343:SER:HB2	2.49	0.47
1:N:343:SER:OG	1:N:344:THR:N	2.48	0.47
1:Q:386:ASP:H	1:Q:387:GLN:HA	1.79	0.47
1:Q:523:ARG:NH2	1:Q:563:MET:HE3	2.30	0.47
1:R:96:THR:HG21	1:R:221:ILE:CG1	2.43	0.47
1:R:114:ALA:HB1	1:R:120:TRP:NE1	2.28	0.47
1:T:191:PHE:N	1:T:191:PHE:CD1	2.81	0.47
1:T:298:GLU:HA	1:T:299:GLY:HA2	1.56	0.47
1:U:96:THR:HG21	1:U:221:ILE:CG1	2.43	0.47
1:U:179:ASP:O	1:U:480:GLY:HA3	2.15	0.47
1:U:523:ARG:NH2	1:U:563:MET:HE3	2.30	0.47
1:V:89:GLN:NE2	1:V:229:GLN:HB2	2.28	0.47
1:V:159:GLY:N	1:V:162:GLU:OE2	2.48	0.47
1:W:267:TYR:CE2	1:W:479:PRO:HD3	2.50	0.47
1:W:292:SER:HB2	1:W:303:THR:O	2.14	0.47
1:W:341:HIS:CE1	1:W:343:SER:HB2	2.49	0.47
1:X:292:SER:HB2	1:X:303:THR:O	2.14	0.47
1:Z:246:PRO:HG3	1:w:528:TRP:HB3	1.86	0.47
1:0:179:ASP:O	1:0:480:GLY:HA3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:529:ASN:O	1:w:124:ALA:HB2	2.15	0.47
1:1:292:SER:HB2	1:1:303:THR:O	2.14	0.47
1:1:386:ASP:H	1:1:387:GLN:HA	1.79	0.47
1:2:179:ASP:O	1:2:480:GLY:HA3	2.15	0.47
1:2:523:ARG:NH2	1:2:563:MET:HE3	2.30	0.47
1:3:159:GLY:N	1:3:162:GLU:OE2	2.48	0.47
1:3:179:ASP:O	1:3:480:GLY:HA3	2.15	0.47
1:3:267:TYR:CE2	1:3:479:PRO:HD3	2.50	0.47
1:4:35:GLY:C	1:b:257:ARG:HH11	2.18	0.47
1:4:159:GLY:N	1:4:162:GLU:OE2	2.48	0.47
1:5:115:ASN:C	1:5:190:ASN:HD21	2.23	0.47
1:5:159:GLY:N	1:5:162:GLU:OE2	2.48	0.47
1:5:267:TYR:CE2	1:5:479:PRO:HD3	2.50	0.47
1:5:371:GLN:HE22	1:a:415:SER:C	2.22	0.47
1:a:267:TYR:CE2	1:a:479:PRO:HD3	2.50	0.47
1:b:115:ASN:C	1:b:190:ASN:HD21	2.23	0.47
1:b:129:LEU:HD11	1:b:136:ILE:HG21	1.96	0.47
1:b:267:TYR:CE2	1:b:479:PRO:HD3	2.50	0.47
1:c:89:GLN:NE2	1:c:229:GLN:HB2	2.28	0.47
1:c:106:GLU:HA	1:c:210:CYS:HB3	1.95	0.47
1:c:107:THR:CG2	1:c:209:TYR:HD2	2.25	0.47
1:c:159:GLY:N	1:c:162:GLU:OE2	2.48	0.47
1:c:292:SER:HB2	1:c:303:THR:O	2.14	0.47
1:d:106:GLU:HA	1:d:210:CYS:HB3	1.95	0.47
1:d:529:ASN:O	1:q:124:ALA:HB2	2.15	0.47
1:e:159:GLY:N	1:e:162:GLU:OE2	2.48	0.47
1:f:179:ASP:O	1:f:480:GLY:HA3	2.15	0.47
1:f:523:ARG:NH2	1:f:563:MET:HE3	2.30	0.47
1:g:529:ASN:O	1:l:124:ALA:HB2	2.15	0.47
1:h:96:THR:HG21	1:h:221:ILE:CG1	2.43	0.47
1:h:101:TYR:O	1:h:101:TYR:HD2	1.97	0.47
1:h:109:TRP:CZ3	1:h:485:LYS:HB2	2.48	0.47
1:h:179:ASP:O	1:h:480:GLY:HA3	2.15	0.47
1:i:298:GLU:HA	1:i:299:GLY:HA2	1.56	0.47
1:j:109:TRP:CZ3	1:j:485:LYS:HB2	2.48	0.47
1:j:159:GLY:N	1:j:162:GLU:OE2	2.48	0.47
1:j:179:ASP:O	1:j:480:GLY:HA3	2.15	0.47
1:j:533:LEU:HD21	1:m:127:GLN:HE21	1.78	0.47
1:k:386:ASP:H	1:k:387:GLN:HA	1.79	0.47
1:l:56:ILE:HB	1:l:518:PHE:HB2	1.95	0.47
1:l:179:ASP:O	1:l:480:GLY:HA3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:298:GLU:HA	1:l:299:GLY:HA2	1.56	0.47
1:m:56:ILE:HB	1:m:518:PHE:HB2	1.95	0.47
1:m:96:THR:HG21	1:m:221:ILE:CG1	2.43	0.47
1:m:159:GLY:N	1:m:162:GLU:OE2	2.48	0.47
1:m:179:ASP:O	1:m:480:GLY:HA3	2.15	0.47
1:m:453:ALA:O	1:m:472:PRO:HD2	2.13	0.47
1:n:292:SER:HB2	1:n:303:THR:O	2.14	0.47
1:n:523:ARG:NH2	1:n:563:MET:HE3	2.30	0.47
1:o:100:SER:O	1:o:100:SER:OG	2.23	0.47
1:p:129:LEU:HD11	1:p:136:ILE:HG21	1.96	0.47
1:p:191:PHE:N	1:p:191:PHE:CD1	2.81	0.47
1:p:267:TYR:CE2	1:p:479:PRO:HD3	2.50	0.47
1:q:47:PHE:HE2	1:q:128:GLN:HB3	1.78	0.47
1:q:101:TYR:O	1:q:101:TYR:HD2	1.97	0.47
1:q:179:ASP:O	1:q:480:GLY:HA3	2.15	0.47
1:r:47:PHE:HE2	1:r:128:GLN:HB3	1.78	0.47
1:r:101:TYR:O	1:r:101:TYR:HD2	1.97	0.47
1:r:341:HIS:CE1	1:r:343:SER:HB2	2.49	0.47
1:r:343:SER:OG	1:r:344:THR:N	2.48	0.47
1:t:129:LEU:HD11	1:t:136:ILE:HG21	1.96	0.47
1:t:159:GLY:N	1:t:162:GLU:OE2	2.48	0.47
1:t:411:ASN:HD22	1:u:342:TYR:H	1.61	0.47
1:u:386:ASP:H	1:u:387:GLN:HA	1.79	0.47
1:v:66:ILE:HD11	1:v:206:LEU:HD22	1.95	0.47
1:v:287:GLY:H	1:v:325:ARG:HH12	1.63	0.47
1:w:267:TYR:CE2	1:w:479:PRO:HD3	2.50	0.47
1:w:292:SER:HB2	1:w:303:THR:O	2.14	0.47
1:w:341:HIS:CE1	1:w:343:SER:HB2	2.49	0.47
1:x:101:TYR:O	1:x:101:TYR:HD2	1.97	0.47
1:x:523:ARG:NH2	1:x:563:MET:HE3	2.30	0.47
1:y:96:THR:HG21	1:y:221:ILE:CG1	2.43	0.47
1:6:179:ASP:O	1:6:480:GLY:HA3	2.15	0.47
1:6:529:ASN:O	1:7:124:ALA:HB2	2.15	0.47
1:7:386:ASP:H	1:7:387:GLN:HA	1.79	0.47
1:D:101:TYR:O	1:D:101:TYR:HD2	1.97	0.47
1:D:267:TYR:CE2	1:D:479:PRO:HD3	2.50	0.47
1:E:114:ALA:HB1	1:E:120:TRP:NE1	2.28	0.47
1:E:292:SER:HB2	1:E:303:THR:O	2.14	0.47
1:G:179:ASP:O	1:G:480:GLY:HA3	2.15	0.47
1:I:35:GLY:C	1:J:257:ARG:HH11	2.17	0.47
1:I:159:GLY:N	1:I:162:GLU:OE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:341:HIS:CE1	1:I:343:SER:HB2	2.49	0.47
1:J:267:TYR:CE2	1:J:479:PRO:HD3	2.50	0.47
1:L:115:ASN:C	1:L:190:ASN:HD21	2.23	0.47
1:M:107:THR:CG2	1:M:209:TYR:HD2	2.25	0.47
1:O:298:GLU:HA	1:O:299:GLY:HA2	1.56	0.47
1:P:129:LEU:HD11	1:P:136:ILE:HG21	1.96	0.47
1:P:523:ARG:NH2	1:P:563:MET:HE3	2.30	0.47
1:Q:292:SER:HB2	1:Q:303:THR:O	2.14	0.47
1:R:66:ILE:HD11	1:R:206:LEU:HD22	1.95	0.47
1:R:179:ASP:O	1:R:480:GLY:HA3	2.15	0.47
1:S:115:ASN:C	1:S:190:ASN:HD21	2.23	0.47
1:S:129:LEU:HD11	1:S:136:ILE:HG21	1.96	0.47
1:T:179:ASP:O	1:T:480:GLY:HA3	2.15	0.47
1:T:523:ARG:NH2	1:T:563:MET:HE3	2.30	0.47
1:U:115:ASN:C	1:U:190:ASN:HD21	2.23	0.47
1:U:529:ASN:O	1:V:124:ALA:HB2	2.15	0.47
1:V:115:ASN:C	1:V:190:ASN:HD21	2.23	0.47
1:W:124:ALA:HB2	1:X:529:ASN:O	2.15	0.47
1:W:129:LEU:HD11	1:W:136:ILE:HG21	1.96	0.47
1:X:267:TYR:CE2	1:X:479:PRO:HD3	2.50	0.47
1:X:287:GLY:H	1:X:325:ARG:HH12	1.63	0.47
1:Y:129:LEU:HD11	1:Y:136:ILE:HG21	1.96	0.47
1:Y:159:GLY:N	1:Y:162:GLU:OE2	2.48	0.47
1:Z:129:LEU:HD11	1:Z:136:ILE:HG21	1.96	0.47
1:Z:284:ARG:HD2	1:x:346:GLY:CA	2.44	0.47
1:0:267:TYR:CE2	1:0:479:PRO:HD3	2.50	0.47
1:1:56:ILE:HB	1:1:518:PHE:HB2	1.95	0.47
1:1:89:GLN:NE2	1:1:229:GLN:HB2	2.28	0.47
1:1:129:LEU:HD11	1:1:136:ILE:HG21	1.96	0.47
1:1:159:GLY:N	1:1:162:GLU:OE2	2.48	0.47
1:1:287:GLY:H	1:1:325:ARG:HH12	1.63	0.47
1:3:523:ARG:NH2	1:3:563:MET:HE3	2.30	0.47
1:4:107:THR:CG2	1:4:209:TYR:HD2	2.25	0.47
1:4:523:ARG:NH2	1:4:563:MET:HE3	2.30	0.47
1:5:158:ALA:HA	1:t:161:GLN:HB3	1.97	0.47
1:a:129:LEU:HD11	1:a:136:ILE:HG21	1.96	0.47
1:a:469:ALA:CB	1:b:439:TYR:CE1	2.86	0.47
1:c:56:ILE:HB	1:c:518:PHE:HB2	1.95	0.47
1:c:129:LEU:HD11	1:c:136:ILE:HG21	1.96	0.47
1:c:287:GLY:H	1:c:325:ARG:HH12	1.63	0.47
1:d:89:GLN:NE2	1:d:229:GLN:HB2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:386:ASP:H	1:d:387:GLN:HA	1.79	0.47
1:d:523:ARG:NH2	1:d:563:MET:HE3	2.30	0.47
1:i:179:ASP:O	1:i:480:GLY:HA3	2.15	0.47
1:i:523:ARG:NH2	1:i:563:MET:HE3	2.30	0.47
1:j:267:TYR:CE2	1:j:479:PRO:HD3	2.50	0.47
1:k:124:ALA:HB2	1:r:529:ASN:O	2.15	0.47
1:k:469:ALA:CB	1:m:439:TYR:CE1	2.87	0.47
1:n:159:GLY:N	1:n:162:GLU:OE2	2.48	0.47
1:p:114:ALA:HB1	1:p:120:TRP:NE1	2.28	0.47
1:q:267:TYR:CE2	1:q:479:PRO:HD3	2.50	0.47
1:q:379:TYR:CD2	1:q:392:GLU:HG3	2.44	0.47
1:r:107:THR:CG2	1:r:209:TYR:HD2	2.25	0.47
1:s:129:LEU:HD11	1:s:136:ILE:HG21	1.96	0.47
1:s:523:ARG:NH2	1:s:563:MET:HE3	2.30	0.47
1:v:191:PHE:N	1:v:191:PHE:CD1	2.81	0.47
1:v:523:ARG:NH2	1:v:563:MET:HE3	2.30	0.47
1:x:129:LEU:HD11	1:x:136:ILE:HG21	1.96	0.47
1:6:115:ASN:C	1:6:190:ASN:HD21	2.23	0.47
1:6:523:ARG:NH2	1:6:563:MET:HE3	2.30	0.47
1:7:115:ASN:C	1:7:190:ASN:HD21	2.23	0.47
1:7:179:ASP:O	1:7:480:GLY:HA3	2.15	0.47
1:A:129:LEU:HD11	1:A:136:ILE:HG21	1.96	0.47
1:A:342:TYR:H	1:I:411:ASN:HD22	1.61	0.47
1:B:115:ASN:C	1:B:190:ASN:HD21	2.23	0.47
1:B:129:LEU:HD11	1:B:136:ILE:HG21	1.96	0.47
1:C:453:ALA:O	1:C:472:PRO:HD2	2.13	0.47
1:D:47:PHE:HE2	1:D:128:GLN:HB3	1.78	0.47
1:E:191:PHE:N	1:E:191:PHE:CD1	2.81	0.47
1:F:343:SER:OG	1:F:344:THR:N	2.48	0.47
1:G:66:ILE:O	1:G:508:GLY:N	2.48	0.47
1:G:287:GLY:H	1:G:325:ARG:HH12	1.63	0.47
1:G:523:ARG:NH2	1:G:563:MET:HE3	2.30	0.47
1:H:129:LEU:HD11	1:H:136:ILE:HG21	1.96	0.47
1:I:523:ARG:NH2	1:I:563:MET:HE3	2.30	0.47
1:J:292:SER:HB2	1:J:303:THR:O	2.14	0.47
1:M:106:GLU:HA	1:M:210:CYS:HB3	1.95	0.47
1:M:386:ASP:H	1:M:387:GLN:HA	1.79	0.47
1:M:523:ARG:NH2	1:M:563:MET:HE3	2.30	0.47
1:N:37:SER:HG	1:g:257:ARG:N	2.11	0.47
1:N:107:THR:CG2	1:N:209:TYR:HD2	2.25	0.47
1:O:246:PRO:O	1:O:246:PRO:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:523:ARG:NH2	1:O:563:MET:HE3	2.30	0.47
1:Q:159:GLY:N	1:Q:162:GLU:OE2	2.48	0.47
1:Q:246:PRO:O	1:Q:246:PRO:HG2	2.14	0.47
1:R:215:THR:O	1:R:216:TRP:HD1	1.98	0.47
1:R:523:ARG:NH2	1:R:563:MET:HE3	2.30	0.47
1:S:343:SER:OG	1:S:344:THR:N	2.48	0.47
1:V:66:ILE:O	1:V:508:GLY:N	2.48	0.47
1:X:156:THR:O	1:X:163:THR:OG1	2.25	0.47
1:X:215:THR:O	1:X:216:TRP:HD1	1.98	0.47
1:X:225:ASP:HB2	1:X:226:ARG:CB	2.36	0.47
1:X:523:ARG:NH2	1:X:563:MET:HE3	2.30	0.47
1:Y:244:PHE:HE2	1:Y:246:PRO:HB3	1.63	0.47
1:Z:159:GLY:N	1:Z:162:GLU:OE2	2.48	0.47
1:Z:439:TYR:CE1	1:x:469:ALA:CB	2.87	0.47
1:0:215:THR:O	1:0:216:TRP:HD1	1.98	0.47
1:0:386:ASP:H	1:0:387:GLN:HA	1.79	0.47
1:0:523:ARG:NH2	1:0:563:MET:HE3	2.30	0.47
1:1:107:THR:CG2	1:1:209:TYR:HD2	2.25	0.47
1:1:124:ALA:HB2	1:2:529:ASN:O	2.15	0.47
1:2:267:TYR:CE2	1:2:479:PRO:HD3	2.50	0.47
1:3:56:ILE:HB	1:3:518:PHE:HB2	1.95	0.47
1:3:246:PRO:O	1:3:246:PRO:HG2	2.14	0.47
1:4:343:SER:OG	1:4:344:THR:N	2.48	0.47
1:5:439:TYR:CZ	1:b:469:ALA:HB2	2.48	0.47
1:5:523:ARG:NH2	1:5:563:MET:HE3	2.30	0.47
1:a:391:ARG:HH12	1:b:307:ASN:C	2.23	0.47
1:b:298:GLU:HA	1:b:299:GLY:HA2	1.56	0.47
1:c:386:ASP:H	1:c:387:GLN:HA	1.79	0.47
1:e:96:THR:HG21	1:e:221:ILE:CG1	2.43	0.47
1:e:100:SER:O	1:e:100:SER:OG	2.23	0.47
1:e:453:ALA:O	1:e:472:PRO:HD2	2.13	0.47
1:g:114:ALA:HB1	1:g:120:TRP:NE1	2.28	0.47
1:h:134:ARG:O	1:h:276:LEU:N	2.32	0.47
1:h:215:THR:O	1:h:216:TRP:HD1	1.98	0.47
1:i:343:SER:OG	1:i:344:THR:N	2.48	0.47
1:j:56:ILE:HB	1:j:518:PHE:HB2	1.95	0.47
1:j:523:ARG:NH2	1:j:563:MET:HE3	2.30	0.47
1:k:191:PHE:N	1:k:191:PHE:CD1	2.81	0.47
1:k:523:ARG:NH2	1:k:563:MET:HE3	2.30	0.47
1:m:215:THR:O	1:m:216:TRP:HD1	1.98	0.47
1:n:246:PRO:O	1:n:246:PRO:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:386:ASP:H	1:n:387:GLN:HA	1.79	0.47
1:o:287:GLY:H	1:o:325:ARG:HH12	1.63	0.47
1:o:343:SER:OG	1:o:344:THR:N	2.48	0.47
1:p:124:ALA:HB2	1:s:529:ASN:O	2.15	0.47
1:t:341:HIS:CE1	1:t:343:SER:HB2	2.49	0.47
1:t:523:ARG:NH2	1:t:563:MET:HE3	2.30	0.47
1:u:129:LEU:HD11	1:u:136:ILE:HG21	1.96	0.47
1:v:179:ASP:O	1:v:480:GLY:HA3	2.15	0.47
1:w:129:LEU:HD11	1:w:136:ILE:HG21	1.96	0.47
1:y:66:ILE:HD11	1:y:206:LEU:HD22	1.95	0.47
1:y:114:ALA:HB1	1:y:120:TRP:NE1	2.28	0.47
1:y:215:THR:O	1:y:216:TRP:HD1	1.98	0.47
1:z:115:ASN:C	1:z:190:ASN:HD21	2.23	0.47
1:z:129:LEU:HD11	1:z:136:ILE:HG21	1.96	0.47
1:7:66:ILE:O	1:7:508:GLY:N	2.48	0.47
1:7:89:GLN:NE2	1:7:229:GLN:HB2	2.28	0.47
1:A:124:ALA:HB2	1:F:529:ASN:O	2.15	0.47
1:A:267:TYR:CE2	1:A:479:PRO:HD3	2.50	0.47
1:B:523:ARG:NH2	1:B:563:MET:HE3	2.30	0.47
1:C:298:GLU:HA	1:C:299:GLY:HA2	1.56	0.47
1:D:529:ASN:O	1:M:124:ALA:HB2	2.15	0.47
1:E:115:ASN:C	1:E:190:ASN:HD21	2.23	0.47
1:E:528:TRP:HB3	1:Q:246:PRO:HG3	1.86	0.47
1:E:529:ASN:O	1:P:124:ALA:HB2	2.15	0.47
1:F:179:ASP:O	1:F:480:GLY:HA3	2.15	0.47
1:G:267:TYR:CE2	1:G:479:PRO:HD3	2.50	0.47
1:J:343:SER:OG	1:J:344:THR:N	2.48	0.47
1:J:523:ARG:NH2	1:J:563:MET:HE3	2.30	0.47
1:K:129:LEU:HD11	1:K:136:ILE:HG21	1.96	0.47
1:Q:129:LEU:HD11	1:Q:136:ILE:HG21	1.96	0.47
1:Q:529:ASN:O	1:R:124:ALA:HB2	2.15	0.47
1:R:129:LEU:HD11	1:R:136:ILE:HG21	1.96	0.47
1:R:298:GLU:HA	1:R:299:GLY:HA2	1.56	0.47
1:R:343:SER:OG	1:R:344:THR:N	2.48	0.47
1:T:159:GLY:N	1:T:162:GLU:OE2	2.48	0.47
1:T:343:SER:OG	1:T:344:THR:N	2.48	0.47
1:U:89:GLN:NE2	1:U:229:GLN:HB2	2.28	0.47
1:W:529:ASN:O	1:X:124:ALA:HB2	2.15	0.47
1:X:179:ASP:O	1:X:480:GLY:HA3	2.15	0.47
1:Z:263:GLU:HA	1:Z:264:SER:HA	1.76	0.47
1:0:124:ALA:HB2	1:w:529:ASN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:287:GLY:H	1:0:325:ARG:HH12	1.63	0.47
1:2:115:ASN:C	1:2:190:ASN:HD21	2.23	0.47
1:5:292:SER:HB2	1:5:303:THR:O	2.14	0.47
1:b:159:GLY:N	1:b:162:GLU:OE2	2.48	0.47
1:c:124:ALA:HB2	1:f:529:ASN:O	2.15	0.47
1:c:246:PRO:CG	1:e:528:TRP:CB	2.65	0.47
1:c:343:SER:OG	1:c:344:THR:N	2.48	0.47
1:d:101:TYR:O	1:d:101:TYR:HD2	1.97	0.47
1:d:124:ALA:HB2	1:q:529:ASN:O	2.15	0.47
1:e:523:ARG:NH2	1:e:563:MET:HE3	2.30	0.47
1:f:267:TYR:CE2	1:f:479:PRO:HD3	2.50	0.47
1:g:124:ALA:HB2	1:l:529:ASN:O	2.15	0.47
1:i:159:GLY:N	1:i:162:GLU:OE2	2.48	0.47
1:k:246:PRO:O	1:k:246:PRO:HG2	2.14	0.47
1:n:529:ASN:O	1:y:124:ALA:HB2	2.15	0.47
1:o:179:ASP:O	1:o:480:GLY:HA3	2.15	0.47
1:p:292:SER:HB2	1:p:303:THR:O	2.14	0.47
1:u:156:THR:O	1:u:163:THR:OG1	2.25	0.47
1:u:267:TYR:CE2	1:u:479:PRO:HD3	2.50	0.47
1:x:100:SER:O	1:x:100:SER:OG	2.23	0.47
1:y:129:LEU:HD11	1:y:136:ILE:HG21	1.96	0.47
1:y:257:ARG:CG	1:7:37:SER:CB	2.73	0.47
1:y:257:ARG:N	1:7:37:SER:HG	2.10	0.47
1:y:343:SER:OG	1:y:344:THR:N	2.48	0.47
1:y:523:ARG:NH2	1:y:563:MET:HE3	2.30	0.47
1:z:343:SER:OG	1:z:344:THR:N	2.48	0.47
1:7:225:ASP:HB2	1:7:226:ARG:CB	2.36	0.47
1:A:115:ASN:C	1:A:190:ASN:HD21	2.23	0.46
1:C:96:THR:HG21	1:C:221:ILE:CG1	2.43	0.46
1:C:523:ARG:NH2	1:C:563:MET:HE3	2.30	0.46
1:F:267:TYR:CE2	1:F:479:PRO:HD3	2.50	0.46
1:I:179:ASP:O	1:I:480:GLY:HA3	2.15	0.46
1:I:343:SER:OG	1:I:344:THR:N	2.48	0.46
1:J:66:ILE:O	1:J:508:GLY:N	2.48	0.46
1:J:107:THR:CG2	1:J:209:TYR:HD2	2.25	0.46
1:J:215:THR:O	1:J:216:TRP:HD1	1.98	0.46
1:K:96:THR:HG21	1:K:221:ILE:CG1	2.43	0.46
1:K:267:TYR:CE2	1:K:479:PRO:HD3	2.50	0.46
1:K:374:THR:OG1	1:K:396:GLN:O	2.34	0.46
1:L:159:GLY:N	1:L:162:GLU:OE2	2.48	0.46
1:O:287:GLY:H	1:O:325:ARG:HH12	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:257:ARG:N	1:V:37:SER:HG	2.10	0.46
1:S:59:HIS:HE1	1:S:515:LYS:HZ1	1.63	0.46
1:S:267:TYR:CE2	1:S:479:PRO:HD3	2.50	0.46
1:S:341:HIS:CE1	1:S:343:SER:HB2	2.49	0.46
1:V:179:ASP:O	1:V:480:GLY:HA3	2.15	0.46
1:W:343:SER:OG	1:W:344:THR:N	2.48	0.46
1:W:386:ASP:H	1:W:387:GLN:HA	1.79	0.46
1:W:523:ARG:NH2	1:W:563:MET:HE3	2.30	0.46
1:Y:124:ALA:HB2	1:Z:529:ASN:O	2.15	0.46
1:Y:529:ASN:O	1:Z:124:ALA:HB2	2.15	0.46
1:Z:246:PRO:O	1:Z:246:PRO:HG2	2.14	0.46
1:1:343:SER:OG	1:1:344:THR:N	2.48	0.46
1:2:89:GLN:NE2	1:2:229:GLN:HB2	2.28	0.46
1:3:66:ILE:O	1:3:508:GLY:N	2.48	0.46
1:4:129:LEU:HD11	1:4:136:ILE:HG21	1.96	0.46
1:4:267:TYR:CE2	1:4:479:PRO:HD3	2.50	0.46
1:5:66:ILE:O	1:5:508:GLY:N	2.48	0.46
1:5:215:THR:O	1:5:216:TRP:HD1	1.98	0.46
1:5:343:SER:OG	1:5:344:THR:N	2.48	0.46
1:a:115:ASN:C	1:a:190:ASN:HD21	2.23	0.46
1:a:523:ARG:NH2	1:a:563:MET:HE3	2.30	0.46
1:e:115:ASN:C	1:e:190:ASN:HD21	2.23	0.46
1:e:158:ALA:HA	1:q:161:GLN:HB3	1.97	0.46
1:f:89:GLN:NE2	1:f:229:GLN:HB2	2.28	0.46
1:f:115:ASN:C	1:f:190:ASN:HD21	2.23	0.46
1:f:343:SER:OG	1:f:344:THR:N	2.48	0.46
1:g:298:GLU:HA	1:g:299:GLY:HA2	1.56	0.46
1:i:96:THR:HG21	1:i:221:ILE:CG1	2.43	0.46
1:i:124:ALA:HB2	1:z:529:ASN:O	2.14	0.46
1:j:334:SER:OG	1:j:435:THR:OG1	2.18	0.46
1:k:287:GLY:H	1:k:325:ARG:HH12	1.63	0.46
1:l:114:ALA:HB1	1:l:120:TRP:NE1	2.28	0.46
1:m:134:ARG:O	1:m:276:LEU:N	2.32	0.46
1:m:267:TYR:CE2	1:m:479:PRO:HD3	2.50	0.46
1:n:129:LEU:HD11	1:n:136:ILE:HG21	1.96	0.46
1:o:267:TYR:CE2	1:o:479:PRO:HD3	2.50	0.46
1:p:115:ASN:C	1:p:190:ASN:HD21	2.23	0.46
1:p:529:ASN:O	1:s:124:ALA:HB2	2.15	0.46
1:q:407:TRP:HE3	1:q:410:LYS:HG2	1.77	0.46
1:s:156:THR:O	1:s:163:THR:OG1	2.25	0.46
1:u:115:ASN:C	1:u:190:ASN:HD21	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:101:TYR:O	1:w:101:TYR:HD2	1.97	0.46
1:w:523:ARG:NH2	1:w:563:MET:HE3	2.30	0.46
1:y:179:ASP:O	1:y:480:GLY:HA3	2.15	0.46
1:z:267:TYR:CE2	1:z:479:PRO:HD3	2.50	0.46
1:z:341:HIS:CE1	1:z:343:SER:HB2	2.49	0.46
1:B:47:PHE:HE2	1:B:128:GLN:HB3	1.78	0.46
1:B:298:GLU:HA	1:B:299:GLY:HA2	1.56	0.46
1:C:115:ASN:C	1:C:190:ASN:HD21	2.23	0.46
1:C:124:ALA:HB2	1:L:529:ASN:O	2.15	0.46
1:D:379:TYR:CD2	1:D:392:GLU:HG3	2.44	0.46
1:E:523:ARG:NH2	1:E:563:MET:HE3	2.30	0.46
1:F:245:THR:HA	1:F:246:PRO:HD2	1.50	0.46
1:F:523:ARG:NH2	1:F:563:MET:HE3	2.30	0.46
1:G:161:GLN:HB3	1:W:158:ALA:HA	1.98	0.46
1:J:355:PHE:HE1	1:J:357:GLN:NE2	2.14	0.46
1:K:37:SER:HG	1:L:257:ARG:N	2.11	0.46
1:K:114:ALA:HB1	1:K:120:TRP:NE1	2.28	0.46
1:N:529:ASN:O	1:O:124:ALA:HB2	2.15	0.46
1:P:298:GLU:HA	1:P:299:GLY:HA2	1.56	0.46
1:S:191:PHE:N	1:S:191:PHE:CD1	2.81	0.46
1:S:287:GLY:H	1:S:325:ARG:HH12	1.63	0.46
1:S:292:SER:HB2	1:S:303:THR:O	2.14	0.46
1:T:96:THR:HG21	1:T:221:ILE:CG1	2.43	0.46
1:T:386:ASP:H	1:T:387:GLN:HA	1.79	0.46
1:U:159:GLY:N	1:U:162:GLU:OE2	2.48	0.46
1:V:225:ASP:HB2	1:V:226:ARG:CB	2.36	0.46
1:W:101:TYR:O	1:W:101:TYR:HD2	1.97	0.46
1:W:179:ASP:O	1:W:480:GLY:HA3	2.15	0.46
1:Y:246:PRO:O	1:Y:246:PRO:HG2	2.14	0.46
1:0:439:TYR:CE1	1:7:469:ALA:CB	2.86	0.46
1:1:267:TYR:CE2	1:1:479:PRO:HD3	2.50	0.46
1:1:529:ASN:O	1:2:124:ALA:HB2	2.14	0.46
1:2:56:ILE:HB	1:2:518:PHE:HB2	1.95	0.46
1:2:66:ILE:O	1:2:508:GLY:N	2.48	0.46
1:4:287:GLY:H	1:4:325:ARG:HH12	1.63	0.46
1:5:107:THR:CG2	1:5:209:TYR:HD2	2.25	0.46
1:5:355:PHE:HE1	1:5:357:GLN:NE2	2.14	0.46
1:b:523:ARG:NH2	1:b:563:MET:HE3	2.30	0.46
1:c:267:TYR:CE2	1:c:479:PRO:HD3	2.50	0.46
1:d:245:THR:HA	1:d:246:PRO:HD2	1.50	0.46
1:f:66:ILE:O	1:f:508:GLY:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:523:ARG:NH2	1:g:563:MET:HE3	2.30	0.46
1:h:156:THR:O	1:h:163:THR:OG1	2.25	0.46
1:h:355:PHE:HE1	1:h:357:GLN:NE2	2.14	0.46
1:i:386:ASP:H	1:i:387:GLN:HA	1.79	0.46
1:j:37:SER:CB	1:k:257:ARG:CG	2.73	0.46
1:j:215:THR:O	1:j:216:TRP:HD1	1.98	0.46
1:j:292:SER:HB2	1:j:303:THR:O	2.14	0.46
1:j:343:SER:OG	1:j:344:THR:N	2.48	0.46
1:m:355:PHE:HE1	1:m:357:GLN:NE2	2.14	0.46
1:o:523:ARG:NH2	1:o:563:MET:HE3	2.30	0.46
1:q:115:ASN:C	1:q:190:ASN:HD21	2.23	0.46
1:r:115:ASN:C	1:r:190:ASN:HD21	2.23	0.46
1:r:523:ARG:NH2	1:r:563:MET:HE3	2.30	0.46
1:s:215:THR:O	1:s:216:TRP:HD1	1.98	0.46
1:t:179:ASP:O	1:t:480:GLY:HA3	2.15	0.46
1:t:292:SER:HB2	1:t:303:THR:O	2.14	0.46
1:t:343:SER:OG	1:t:344:THR:N	2.48	0.46
1:v:161:GLN:HB3	1:w:158:ALA:HA	1.98	0.46
1:v:267:TYR:CE2	1:v:479:PRO:HD3	2.50	0.46
1:v:386:ASP:H	1:v:387:GLN:HA	1.79	0.46
1:v:390:MET:HA	1:v:391:ARG:HA	1.72	0.46
1:w:66:ILE:HD11	1:w:206:LEU:HD22	1.95	0.46
1:w:159:GLY:N	1:w:162:GLU:OE2	2.48	0.46
1:w:179:ASP:O	1:w:480:GLY:HA3	2.15	0.46
1:w:343:SER:OG	1:w:344:THR:N	2.48	0.46
1:w:386:ASP:H	1:w:387:GLN:HA	1.79	0.46
1:y:115:ASN:C	1:y:190:ASN:HD21	2.23	0.46
1:6:89:GLN:NE2	1:6:229:GLN:HB2	2.28	0.46
1:B:379:TYR:CD2	1:B:392:GLU:HG3	2.44	0.46
1:C:158:ALA:HA	1:D:161:GLN:HB3	1.98	0.46
1:C:334:SER:OG	1:C:435:THR:HG23	2.16	0.46
1:C:529:ASN:O	1:L:124:ALA:HB2	2.15	0.46
1:D:523:ARG:NH2	1:D:563:MET:HE3	2.30	0.46
1:F:114:ALA:HB1	1:F:120:TRP:NE1	2.28	0.46
1:H:414:GLN:N	1:W:338:TRP:O	2.37	0.46
1:H:469:ALA:CB	1:Y:439:TYR:CE1	2.87	0.46
1:J:529:ASN:O	1:K:124:ALA:HB2	2.15	0.46
1:L:179:ASP:O	1:L:480:GLY:HA3	2.15	0.46
1:M:101:TYR:O	1:M:101:TYR:HD2	1.97	0.46
1:M:355:PHE:HE1	1:M:357:GLN:NE2	2.14	0.46
1:N:115:ASN:C	1:N:190:ASN:HD21	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:374:THR:OG1	1:N:396:GLN:O	2.34	0.46
1:N:523:ARG:NH2	1:N:563:MET:HE3	2.30	0.46
1:P:59:HIS:HE1	1:P:515:LYS:HZ1	1.64	0.46
1:P:215:THR:O	1:P:216:TRP:HD1	1.98	0.46
1:P:225:ASP:HB2	1:P:226:ARG:CB	2.36	0.46
1:Q:109:TRP:CZ3	1:Q:485:LYS:HB2	2.48	0.46
1:R:115:ASN:C	1:R:190:ASN:HD21	2.23	0.46
1:S:179:ASP:O	1:S:480:GLY:HA3	2.15	0.46
1:S:529:ASN:O	1:T:124:ALA:HB2	2.14	0.46
1:T:246:PRO:CG	1:f:528:TRP:CB	2.65	0.46
1:U:355:PHE:HE1	1:U:357:GLN:NE2	2.14	0.46
1:V:469:ALA:CB	1:X:439:TYR:CE1	2.86	0.46
1:W:66:ILE:HD11	1:W:206:LEU:HD22	1.95	0.46
1:W:159:GLY:N	1:W:162:GLU:OE2	2.48	0.46
1:W:215:THR:O	1:W:216:TRP:HD1	1.98	0.46
1:X:159:GLY:N	1:X:162:GLU:OE2	2.48	0.46
1:Y:191:PHE:CD1	1:Y:191:PHE:N	2.81	0.46
1:Y:334:SER:OG	1:Y:435:THR:HG23	2.16	0.46
1:Z:179:ASP:O	1:Z:480:GLY:HA3	2.15	0.46
1:1:179:ASP:O	1:1:480:GLY:HA3	2.15	0.46
1:2:343:SER:OG	1:2:344:THR:N	2.48	0.46
1:3:215:THR:O	1:3:216:TRP:HD1	1.98	0.46
1:4:96:THR:HG21	1:4:221:ILE:CG1	2.43	0.46
1:4:114:ALA:HB1	1:4:120:TRP:NE1	2.28	0.46
1:4:374:THR:OG1	1:4:396:GLN:O	2.34	0.46
1:a:47:PHE:HE2	1:a:128:GLN:HB3	1.78	0.46
1:b:156:THR:O	1:b:163:THR:OG1	2.25	0.46
1:c:215:THR:O	1:c:216:TRP:HD1	1.98	0.46
1:d:115:ASN:C	1:d:190:ASN:HD21	2.23	0.46
1:d:355:PHE:HE1	1:d:357:GLN:NE2	2.14	0.46
1:f:56:ILE:HB	1:f:518:PHE:HB2	1.95	0.46
1:g:115:ASN:C	1:g:190:ASN:HD21	2.23	0.46
1:g:343:SER:OG	1:g:344:THR:N	2.48	0.46
1:g:390:MET:HA	1:g:391:ARG:HA	1.72	0.46
1:h:267:TYR:CE2	1:h:479:PRO:HD3	2.50	0.46
1:h:343:SER:OG	1:h:344:THR:N	2.48	0.46
1:j:355:PHE:HE1	1:j:357:GLN:NE2	2.14	0.46
1:l:343:SER:OG	1:l:344:THR:N	2.48	0.46
1:m:287:GLY:H	1:m:325:ARG:HH12	1.63	0.46
1:n:246:PRO:HG3	1:p:528:TRP:HB3	1.86	0.46
1:o:114:ALA:HB1	1:o:120:TRP:NE1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:523:ARG:NH2	1:p:563:MET:HE3	2.30	0.46
1:r:179:ASP:O	1:r:480:GLY:HA3	2.15	0.46
1:s:225:ASP:HB2	1:s:226:ARG:CB	2.36	0.46
1:w:338:TRP:O	1:x:414:GLN:N	2.37	0.46
1:x:156:THR:O	1:x:163:THR:OG1	2.25	0.46
1:z:66:ILE:O	1:z:508:GLY:N	2.48	0.46
1:6:159:GLY:N	1:6:162:GLU:OE2	2.48	0.46
1:6:355:PHE:HE1	1:6:357:GLN:NE2	2.14	0.46
1:7:100:SER:O	1:7:100:SER:OG	2.23	0.46
1:A:334:SER:OG	1:A:435:THR:HG23	2.16	0.46
1:B:124:ALA:HB2	1:I:529:ASN:O	2.15	0.46
1:B:334:SER:OG	1:B:435:THR:HG23	2.16	0.46
1:C:100:SER:O	1:C:100:SER:OG	2.23	0.46
1:C:267:TYR:CE2	1:C:479:PRO:HD3	2.50	0.46
1:F:225:ASP:HB2	1:F:226:ARG:CB	2.36	0.46
1:H:267:TYR:CE2	1:H:479:PRO:HD3	2.50	0.46
1:I:292:SER:HB2	1:I:303:THR:O	2.14	0.46
1:J:124:ALA:HB2	1:K:529:ASN:O	2.15	0.46
1:K:287:GLY:H	1:K:325:ARG:HH12	1.63	0.46
1:L:156:THR:O	1:L:163:THR:OG1	2.25	0.46
1:L:298:GLU:HA	1:L:299:GLY:HA2	1.56	0.46
1:L:523:ARG:NH2	1:L:563:MET:HE3	2.30	0.46
1:N:159:GLY:N	1:N:162:GLU:OE2	2.48	0.46
1:N:179:ASP:O	1:N:480:GLY:HA3	2.15	0.46
1:P:109:TRP:CZ3	1:P:485:LYS:HB2	2.48	0.46
1:P:161:GLN:HB3	1:Q:158:ALA:HA	1.97	0.46
1:P:334:SER:OG	1:P:435:THR:HG23	2.16	0.46
1:R:59:HIS:HE1	1:R:515:LYS:HZ1	1.62	0.46
1:U:267:TYR:CE2	1:U:479:PRO:HD3	2.50	0.46
1:U:343:SER:OG	1:U:344:THR:N	2.48	0.46
1:W:245:THR:HA	1:W:246:PRO:HD2	1.50	0.46
1:X:158:ALA:HA	1:5:161:GLN:HB3	1.97	0.46
1:X:386:ASP:H	1:X:387:GLN:HA	1.79	0.46
1:Y:179:ASP:O	1:Y:480:GLY:HA3	2.15	0.46
1:Z:89:GLN:NE2	1:Z:229:GLN:HB2	2.28	0.46
1:Z:334:SER:OG	1:Z:435:THR:HG23	2.16	0.46
1:0:225:ASP:HB2	1:0:226:ARG:CB	2.36	0.46
1:1:215:THR:O	1:1:216:TRP:HD1	1.98	0.46
1:3:115:ASN:C	1:3:190:ASN:HD21	2.23	0.46
1:3:292:SER:HB2	1:3:303:THR:O	2.14	0.46
1:3:355:PHE:HE1	1:3:357:GLN:NE2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:115:ASN:C	1:4:190:ASN:HD21	2.23	0.46
1:5:100:SER:O	1:5:100:SER:OG	2.23	0.46
1:5:114:ALA:HB1	1:5:120:TRP:NE1	2.28	0.46
1:5:179:ASP:O	1:5:480:GLY:HA3	2.15	0.46
1:5:310:CYS:HB3	1:b:192:TYR:CD1	2.51	0.46
1:a:334:SER:OG	1:a:435:THR:HG23	2.16	0.46
1:b:179:ASP:O	1:b:480:GLY:HA3	2.15	0.46
1:c:179:ASP:O	1:c:480:GLY:HA3	2.15	0.46
1:c:529:ASN:O	1:f:124:ALA:HB2	2.14	0.46
1:e:267:TYR:CE2	1:e:479:PRO:HD3	2.50	0.46
1:e:334:SER:OG	1:e:435:THR:HG23	2.16	0.46
1:g:215:THR:O	1:g:216:TRP:HD1	1.98	0.46
1:g:334:SER:OG	1:g:435:THR:HG23	2.16	0.46
1:h:287:GLY:H	1:h:325:ARG:HH12	1.63	0.46
1:j:115:ASN:C	1:j:190:ASN:HD21	2.23	0.46
1:k:179:ASP:O	1:k:480:GLY:HA3	2.15	0.46
1:l:115:ASN:C	1:l:190:ASN:HD21	2.23	0.46
1:l:334:SER:OG	1:l:435:THR:HG23	2.16	0.46
1:l:523:ARG:NH2	1:l:563:MET:HE3	2.30	0.46
1:m:115:ASN:C	1:m:190:ASN:HD21	2.23	0.46
1:m:146:GLU:HA	1:m:147:ASN:HA	1.79	0.46
1:m:343:SER:OG	1:m:344:THR:N	2.48	0.46
1:n:109:TRP:CZ3	1:n:485:LYS:HB2	2.48	0.46
1:n:156:THR:O	1:n:163:THR:OG1	2.25	0.46
1:n:161:GLN:HB3	1:z:158:ALA:HA	1.98	0.46
1:q:107:THR:CG2	1:q:209:TYR:HD2	2.25	0.46
1:r:374:THR:OG1	1:r:396:GLN:O	2.34	0.46
1:s:59:HIS:HE1	1:s:515:LYS:HZ1	1.64	0.46
1:s:298:GLU:HA	1:s:299:GLY:HA2	1.56	0.46
1:t:89:GLN:NE2	1:t:229:GLN:HB2	2.28	0.46
1:v:115:ASN:C	1:v:190:ASN:HD21	2.23	0.46
1:w:215:THR:O	1:w:216:TRP:HD1	1.98	0.46
1:x:179:ASP:O	1:x:480:GLY:HA3	2.15	0.46
1:x:267:TYR:CE2	1:x:479:PRO:HD3	2.50	0.46
1:x:334:SER:OG	1:x:435:THR:OG1	2.17	0.46
1:z:191:PHE:N	1:z:191:PHE:CD1	2.81	0.46
1:z:287:GLY:H	1:z:325:ARG:HH12	1.63	0.46
1:z:292:SER:HB2	1:z:303:THR:O	2.14	0.46
1:6:215:THR:O	1:6:216:TRP:HD1	1.98	0.46
1:6:267:TYR:CE2	1:6:479:PRO:HD3	2.50	0.46
1:A:245:THR:HA	1:A:246:PRO:HD2	1.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:107:THR:CG2	1:B:209:TYR:HD2	2.25	0.46
1:D:115:ASN:C	1:D:190:ASN:HD21	2.23	0.46
1:E:215:THR:O	1:E:216:TRP:HD1	1.98	0.46
1:E:334:SER:OG	1:E:435:THR:HG23	2.16	0.46
1:G:341:HIS:HE1	1:G:343:SER:HB2	1.81	0.46
1:H:159:GLY:N	1:H:162:GLU:OE2	2.48	0.46
1:H:257:ARG:CG	1:Z:37:SER:CB	2.72	0.46
1:I:89:GLN:NE2	1:I:229:GLN:HB2	2.28	0.46
1:J:334:SER:OG	1:J:435:THR:HG23	2.16	0.46
1:L:215:THR:O	1:L:216:TRP:HD1	1.98	0.46
1:L:355:PHE:HE1	1:L:357:GLN:NE2	2.14	0.46
1:M:115:ASN:C	1:M:190:ASN:HD21	2.23	0.46
1:N:287:GLY:H	1:N:325:ARG:HH12	1.63	0.46
1:O:334:SER:OG	1:O:435:THR:HG23	2.16	0.46
1:P:102:HIS:HE1	1:P:104:LYS:HE3	1.81	0.46
1:Q:115:ASN:C	1:Q:190:ASN:HD21	2.23	0.46
1:S:66:ILE:O	1:S:508:GLY:N	2.48	0.46
1:S:161:GLN:HB3	1:3:158:ALA:HA	1.98	0.46
1:U:109:TRP:CZ3	1:U:485:LYS:HB2	2.48	0.46
1:U:215:THR:O	1:U:216:TRP:HD1	1.98	0.46
1:V:191:PHE:N	1:V:191:PHE:CD1	2.81	0.46
1:V:215:THR:O	1:V:216:TRP:HD1	1.98	0.46
1:Y:115:ASN:C	1:Y:190:ASN:HD21	2.23	0.46
1:Z:96:THR:HG21	1:Z:221:ILE:CG1	2.43	0.46
1:0:159:GLY:N	1:0:162:GLU:OE2	2.48	0.46
1:1:298:GLU:HA	1:1:299:GLY:HA2	1.56	0.46
1:1:523:ARG:NH2	1:1:563:MET:HE3	2.30	0.46
1:2:129:LEU:HD11	1:2:136:ILE:HG21	1.96	0.46
1:3:529:ASN:O	1:h:124:ALA:HB2	2.15	0.46
1:4:298:GLU:HA	1:4:299:GLY:HA2	1.56	0.46
1:5:298:GLU:HA	1:5:299:GLY:HA2	1.56	0.46
1:a:107:THR:CG2	1:a:209:TYR:HD2	2.25	0.46
1:b:215:THR:O	1:b:216:TRP:HD1	1.98	0.46
1:b:355:PHE:HE1	1:b:357:GLN:NE2	2.14	0.46
1:f:374:THR:OG1	1:f:396:GLN:O	2.34	0.46
1:j:225:ASP:HB2	1:j:226:ARG:CB	2.36	0.46
1:j:287:GLY:H	1:j:325:ARG:HH12	1.63	0.46
1:k:267:TYR:CE2	1:k:479:PRO:HD3	2.50	0.46
1:k:298:GLU:HA	1:k:299:GLY:HA2	1.56	0.46
1:k:334:SER:OG	1:k:435:THR:HG23	2.16	0.46
1:l:159:GLY:N	1:l:162:GLU:OE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:215:THR:O	1:l:216:TRP:HD1	1.98	0.46
1:l:374:THR:OG1	1:l:396:GLN:O	2.34	0.46
1:m:298:GLU:HA	1:m:299:GLY:HA2	1.56	0.46
1:m:379:TYR:CD2	1:m:392:GLU:HG3	2.44	0.46
1:n:66:ILE:O	1:n:508:GLY:N	2.48	0.46
1:n:115:ASN:C	1:n:190:ASN:HD21	2.23	0.46
1:n:158:ALA:HA	1:s:161:GLN:HB3	1.98	0.46
1:n:267:TYR:CE2	1:n:479:PRO:HD3	2.50	0.46
1:o:102:HIS:HE1	1:o:104:LYS:HE3	1.81	0.46
1:o:161:GLN:HB3	1:v:158:ALA:HA	1.98	0.46
1:o:225:ASP:HB2	1:o:226:ARG:CB	2.36	0.46
1:q:287:GLY:H	1:q:325:ARG:HH12	1.63	0.46
1:r:287:GLY:H	1:r:325:ARG:HH12	1.63	0.46
1:r:355:PHE:HE1	1:r:357:GLN:NE2	2.14	0.46
1:s:334:SER:OG	1:s:435:THR:HG23	2.16	0.46
1:u:245:THR:HA	1:u:246:PRO:HD2	1.50	0.46
1:u:334:SER:OG	1:u:435:THR:HG23	2.16	0.46
1:u:355:PHE:HE1	1:u:357:GLN:NE2	2.14	0.46
1:v:341:HIS:HE1	1:v:343:SER:HB2	1.81	0.46
1:x:159:GLY:N	1:x:162:GLU:OE2	2.48	0.46
1:z:179:ASP:O	1:z:480:GLY:HA3	2.15	0.46
1:6:191:PHE:N	1:6:191:PHE:CD1	2.81	0.46
1:6:332:GLY:HA2	1:6:353:GLN:NE2	2.26	0.46
1:7:101:TYR:CZ	1:7:236:GLY:HA3	2.44	0.46
1:A:355:PHE:HE1	1:A:357:GLN:NE2	2.14	0.46
1:A:523:ARG:NH2	1:A:563:MET:HE3	2.30	0.46
1:A:529:ASN:O	1:F:124:ALA:HB2	2.16	0.46
1:B:287:GLY:H	1:B:325:ARG:HH12	1.63	0.46
1:C:102:HIS:HE1	1:C:104:LYS:HE3	1.81	0.46
1:C:109:TRP:CZ3	1:C:485:LYS:HB2	2.48	0.46
1:C:355:PHE:HE1	1:C:357:GLN:NE2	2.14	0.46
1:D:287:GLY:H	1:D:325:ARG:HH12	1.63	0.46
1:F:102:HIS:HE1	1:F:104:LYS:HE3	1.81	0.46
1:F:215:THR:O	1:F:216:TRP:HD1	1.98	0.46
1:F:257:ARG:N	1:R:37:SER:HG	2.08	0.46
1:G:115:ASN:C	1:G:190:ASN:HD21	2.23	0.46
1:G:386:ASP:H	1:G:387:GLN:HA	1.79	0.46
1:H:179:ASP:O	1:H:480:GLY:HA3	2.15	0.46
1:H:292:SER:HB2	1:H:303:THR:O	2.14	0.46
1:H:334:SER:OG	1:H:435:THR:HG23	2.16	0.46
1:I:161:GLN:HB3	1:J:158:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:267:TYR:CE2	1:I:479:PRO:HD3	2.50	0.46
1:J:100:SER:O	1:J:100:SER:OG	2.23	0.46
1:K:115:ASN:C	1:K:190:ASN:HD21	2.23	0.46
1:L:334:SER:OG	1:L:435:THR:HG23	2.16	0.46
1:N:355:PHE:HE1	1:N:357:GLN:NE2	2.14	0.46
1:O:179:ASP:O	1:O:480:GLY:HA3	2.15	0.46
1:O:267:TYR:CE2	1:O:479:PRO:HD3	2.50	0.46
1:Q:161:GLN:HB3	1:S:158:ALA:HA	1.98	0.46
1:S:390:MET:HA	1:S:391:ARG:HA	1.72	0.46
1:U:332:GLY:HA2	1:U:353:GLN:NE2	2.26	0.46
1:V:100:SER:O	1:V:100:SER:OG	2.23	0.46
1:V:101:TYR:CZ	1:V:236:GLY:HA3	2.44	0.46
1:X:96:THR:HG21	1:X:221:ILE:CG1	2.43	0.46
1:X:355:PHE:HE1	1:X:357:GLN:NE2	2.14	0.46
1:Y:37:SER:HG	1:x:257:ARG:N	2.10	0.46
1:Y:96:THR:HG21	1:Y:221:ILE:CG1	2.43	0.46
1:Y:134:ARG:O	1:Y:276:LEU:N	2.32	0.46
1:Z:244:PHE:HE2	1:Z:246:PRO:HB3	1.63	0.46
1:0:355:PHE:HE1	1:0:357:GLN:NE2	2.14	0.46
1:2:257:ARG:HH11	1:m:35:GLY:C	2.17	0.46
1:2:332:GLY:HA2	1:2:353:GLN:NE2	2.26	0.46
1:2:355:PHE:HE1	1:2:357:GLN:NE2	2.14	0.46
1:2:374:THR:OG1	1:2:396:GLN:O	2.34	0.46
1:3:287:GLY:H	1:3:325:ARG:HH12	1.63	0.46
1:5:287:GLY:H	1:5:325:ARG:HH12	1.63	0.46
1:5:289:CYS:HA	1:b:212:HIS:CE1	2.51	0.46
1:5:390:MET:HA	1:5:391:ARG:HA	1.72	0.46
1:5:435:THR:HG21	1:b:339:GLN:NE2	2.26	0.46
1:b:334:SER:OG	1:b:435:THR:HG23	2.16	0.46
1:c:523:ARG:NH2	1:c:563:MET:HE3	2.30	0.46
1:f:102:HIS:HE1	1:f:104:LYS:HE3	1.81	0.46
1:f:129:LEU:HD11	1:f:136:ILE:HG21	1.96	0.46
1:f:257:ARG:HH11	1:h:35:GLY:C	2.17	0.46
1:f:332:GLY:HA2	1:f:353:GLN:NE2	2.26	0.46
1:f:355:PHE:HE1	1:f:357:GLN:NE2	2.14	0.46
1:g:159:GLY:N	1:g:162:GLU:OE2	2.48	0.46
1:g:341:HIS:HE1	1:g:343:SER:HB2	1.81	0.46
1:g:355:PHE:HE1	1:g:357:GLN:NE2	2.14	0.46
1:g:374:THR:OG1	1:g:396:GLN:O	2.34	0.46
1:h:115:ASN:C	1:h:190:ASN:HD21	2.23	0.46
1:h:523:ARG:NH2	1:h:563:MET:HE3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:292:SER:HB2	1:i:303:THR:O	2.14	0.46
1:i:470:HIS:O	1:i:470:HIS:CG	2.69	0.46
1:j:158:ALA:HA	1:z:161:GLN:HB3	1.98	0.46
1:l:355:PHE:HE1	1:l:357:GLN:NE2	2.14	0.46
1:o:215:THR:O	1:o:216:TRP:HD1	1.98	0.46
1:p:179:ASP:O	1:p:480:GLY:HA3	2.15	0.46
1:p:334:SER:OG	1:p:435:THR:HG23	2.16	0.46
1:q:523:ARG:NH2	1:q:563:MET:HE3	2.30	0.46
1:r:159:GLY:N	1:r:162:GLU:OE2	2.48	0.46
1:r:334:SER:OG	1:r:435:THR:HG23	2.16	0.46
1:s:109:TRP:CZ3	1:s:485:LYS:HB2	2.48	0.46
1:t:267:TYR:CE2	1:t:479:PRO:HD3	2.50	0.46
1:u:523:ARG:NH2	1:u:563:MET:HE3	2.30	0.46
1:v:102:HIS:HE1	1:v:104:LYS:HE3	1.81	0.46
1:x:292:SER:HB2	1:x:303:THR:O	2.14	0.46
1:y:66:ILE:O	1:y:508:GLY:N	2.48	0.46
1:z:470:HIS:O	1:z:470:HIS:CG	2.69	0.46
1:7:215:THR:O	1:7:216:TRP:HD1	1.98	0.46
1:A:215:THR:O	1:A:216:TRP:HD1	1.98	0.46
1:C:215:THR:O	1:C:216:TRP:HD1	1.98	0.46
1:E:179:ASP:O	1:E:480:GLY:HA3	2.15	0.46
1:E:343:SER:OG	1:E:344:THR:N	2.48	0.46
1:F:115:ASN:C	1:F:190:ASN:HD21	2.23	0.46
1:F:161:GLN:HB3	1:G:158:ALA:HA	1.98	0.46
1:G:102:HIS:HE1	1:G:104:LYS:HE3	1.81	0.46
1:G:175:GLN:HE21	1:G:485:LYS:HE2	1.81	0.46
1:H:404:GLN:HE22	1:H:443:ASP:HB2	1.81	0.46
1:I:191:PHE:N	1:I:191:PHE:CD1	2.81	0.46
1:I:334:SER:OG	1:I:435:THR:HG23	2.16	0.46
1:J:114:ALA:HB1	1:J:120:TRP:NE1	2.28	0.46
1:J:245:THR:HA	1:J:246:PRO:HD2	1.50	0.46
1:J:298:GLU:HA	1:J:299:GLY:HA2	1.56	0.46
1:M:267:TYR:CE2	1:M:479:PRO:HD3	2.50	0.46
1:M:343:SER:OG	1:M:344:THR:N	2.48	0.46
1:N:161:GLN:HB3	1:g:158:ALA:HA	1.97	0.46
1:N:334:SER:OG	1:N:435:THR:HG23	2.16	0.46
1:O:341:HIS:HE1	1:O:343:SER:HB2	1.81	0.46
1:Q:66:ILE:O	1:Q:508:GLY:N	2.48	0.46
1:Q:267:TYR:CE2	1:Q:479:PRO:HD3	2.50	0.46
1:R:66:ILE:O	1:R:508:GLY:N	2.48	0.46
1:S:470:HIS:O	1:S:470:HIS:CG	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:292:SER:HB2	1:T:303:THR:O	2.14	0.46
1:U:191:PHE:N	1:U:191:PHE:CD1	2.81	0.46
1:U:470:HIS:O	1:U:470:HIS:CG	2.69	0.46
1:V:257:ARG:CG	1:W:37:SER:CB	2.72	0.46
1:Y:267:TYR:CE2	1:Y:479:PRO:HD3	2.50	0.46
1:Y:355:PHE:HE1	1:Y:357:GLN:NE2	2.14	0.46
1:Z:115:ASN:C	1:Z:190:ASN:HD21	2.23	0.46
1:Z:257:ARG:CG	1:0:37:SER:CB	2.73	0.46
1:1:355:PHE:HE1	1:1:357:GLN:NE2	2.14	0.46
1:1:390:MET:HA	1:1:391:ARG:HA	1.72	0.46
1:1:404:GLN:HE22	1:1:443:ASP:HB2	1.81	0.46
1:2:109:TRP:CZ3	1:2:485:LYS:HB2	2.48	0.46
1:3:334:SER:HG	1:3:435:THR:CB	2.26	0.46
1:4:244:PHE:C	1:4:246:PRO:HD3	2.41	0.46
1:5:334:SER:OG	1:5:435:THR:HG23	2.16	0.46
1:a:287:GLY:H	1:a:325:ARG:HH12	1.63	0.46
1:a:298:GLU:HA	1:a:299:GLY:HA2	1.56	0.46
1:a:343:SER:OG	1:a:344:THR:N	2.48	0.46
1:a:379:TYR:CD2	1:a:392:GLU:HG3	2.44	0.46
1:c:404:GLN:HE22	1:c:443:ASP:HB2	1.81	0.46
1:d:343:SER:OG	1:d:344:THR:N	2.48	0.46
1:e:102:HIS:HE1	1:e:104:LYS:HE3	1.81	0.46
1:e:109:TRP:CZ3	1:e:485:LYS:HB2	2.48	0.46
1:e:215:THR:O	1:e:216:TRP:HD1	1.98	0.46
1:e:355:PHE:HE1	1:e:357:GLN:NE2	2.14	0.46
1:f:109:TRP:CZ3	1:f:485:LYS:HB2	2.48	0.46
1:g:267:TYR:CE2	1:g:479:PRO:HD3	2.50	0.46
1:h:374:THR:OG1	1:h:396:GLN:O	2.34	0.46
1:h:379:TYR:CD2	1:h:392:GLU:HG3	2.44	0.46
1:i:267:TYR:CE2	1:i:479:PRO:HD3	2.50	0.46
1:j:89:GLN:NE2	1:j:229:GLN:HB2	2.28	0.46
1:j:470:HIS:O	1:j:470:HIS:CG	2.69	0.46
1:l:129:LEU:HD11	1:l:136:ILE:HG21	1.96	0.46
1:l:158:ALA:HA	1:r:161:GLN:HB3	1.97	0.46
1:l:341:HIS:HE1	1:l:343:SER:HB2	1.81	0.46
1:m:523:ARG:NH2	1:m:563:MET:HE3	2.30	0.46
1:o:101:TYR:CZ	1:o:236:GLY:HA3	2.44	0.46
1:o:115:ASN:C	1:o:190:ASN:HD21	2.23	0.46
1:p:215:THR:O	1:p:216:TRP:HD1	1.98	0.46
1:q:355:PHE:HE1	1:q:357:GLN:NE2	2.14	0.46
1:r:191:PHE:N	1:r:191:PHE:CD1	2.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:102:HIS:HE1	1:s:104:LYS:HE3	1.81	0.46
1:s:159:GLY:N	1:s:162:GLU:OE2	2.48	0.46
1:t:334:SER:OG	1:t:435:THR:HG23	2.16	0.46
1:u:559:PRO:HA	1:u:560:GLY:HA3	1.80	0.46
1:w:245:THR:HA	1:w:246:PRO:HD2	1.50	0.46
1:y:102:HIS:HE1	1:y:104:LYS:HE3	1.81	0.46
1:6:109:TRP:CZ3	1:6:485:LYS:HB2	2.48	0.46
1:A:287:GLY:H	1:A:325:ARG:HH12	1.63	0.46
1:B:102:HIS:HE1	1:B:104:LYS:HE3	1.81	0.46
1:B:284:ARG:HD2	1:J:346:GLY:CA	2.44	0.46
1:B:343:SER:OG	1:B:344:THR:N	2.48	0.46
1:F:470:HIS:O	1:F:470:HIS:CG	2.69	0.46
1:G:215:THR:O	1:G:216:TRP:HD1	1.98	0.46
1:G:529:ASN:O	1:H:124:ALA:HB2	2.15	0.46
1:H:318:ASN:HA	1:H:319:PRO:HA	1.81	0.46
1:J:179:ASP:O	1:J:480:GLY:HA3	2.15	0.46
1:J:287:GLY:H	1:J:325:ARG:HH12	1.63	0.46
1:K:244:PHE:C	1:K:246:PRO:HD3	2.41	0.46
1:K:257:ARG:N	1:6:37:SER:HG	2.09	0.46
1:K:298:GLU:HA	1:K:299:GLY:HA2	1.56	0.46
1:K:334:SER:OG	1:K:435:THR:HG23	2.16	0.46
1:K:470:HIS:O	1:K:470:HIS:CG	2.69	0.46
1:L:343:SER:OG	1:L:344:THR:N	2.48	0.46
1:M:175:GLN:HE21	1:M:485:LYS:HE2	1.81	0.46
1:M:246:PRO:CG	1:1:528:TRP:CB	2.65	0.46
1:M:298:GLU:HA	1:M:299:GLY:HA2	1.56	0.46
1:O:89:GLN:NE2	1:O:229:GLN:HB2	2.29	0.46
1:O:109:TRP:CZ3	1:O:485:LYS:HB2	2.48	0.46
1:O:158:ALA:HA	1:3:161:GLN:HB3	1.98	0.46
1:O:292:SER:HB2	1:O:303:THR:O	2.14	0.46
1:P:159:GLY:N	1:P:162:GLU:OE2	2.48	0.46
1:Q:124:ALA:HB2	1:R:529:ASN:O	2.15	0.46
1:Q:179:ASP:O	1:Q:480:GLY:HA3	2.15	0.46
1:Q:213:VAL:O	1:Q:215:THR:HG23	2.16	0.46
1:Q:244:PHE:C	1:Q:246:PRO:HD3	2.41	0.46
1:R:102:HIS:HE1	1:R:104:LYS:HE3	1.81	0.46
1:S:223:GLN:HB2	1:S:229:GLN:O	2.16	0.46
1:S:341:HIS:HE1	1:S:343:SER:HB2	1.81	0.46
1:T:267:TYR:CE2	1:T:479:PRO:HD3	2.50	0.46
1:T:470:HIS:O	1:T:470:HIS:CG	2.69	0.46
1:V:263:GLU:HA	1:V:264:SER:HA	1.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:267:TYR:CE2	1:V:479:PRO:HD3	2.50	0.46
1:W:470:HIS:O	1:W:470:HIS:CG	2.69	0.46
1:X:257:ARG:N	1:5:37:SER:HG	2.08	0.46
1:Y:89:GLN:NE2	1:Y:229:GLN:HB2	2.28	0.46
1:Y:102:HIS:HE1	1:Y:104:LYS:HE3	1.81	0.46
1:Y:213:VAL:O	1:Y:215:THR:HG23	2.16	0.46
1:Y:470:HIS:O	1:Y:470:HIS:CG	2.69	0.46
1:Z:102:HIS:HE1	1:Z:104:LYS:HE3	1.81	0.46
1:Z:213:VAL:O	1:Z:215:THR:HG23	2.16	0.46
1:Z:332:GLY:HA2	1:Z:353:GLN:NE2	2.26	0.46
1:0:96:THR:HG21	1:0:221:ILE:CG1	2.43	0.46
1:2:102:HIS:HE1	1:2:104:LYS:HE3	1.81	0.46
1:3:225:ASP:HB2	1:3:226:ARG:CB	2.36	0.46
1:3:374:THR:OG1	1:3:396:GLN:O	2.34	0.46
1:3:470:HIS:O	1:3:470:HIS:CG	2.69	0.46
1:4:334:SER:OG	1:4:435:THR:HG23	2.16	0.46
1:4:470:HIS:O	1:4:470:HIS:CG	2.69	0.46
1:a:215:THR:O	1:a:216:TRP:HD1	1.98	0.46
1:b:343:SER:OG	1:b:344:THR:N	2.48	0.46
1:b:533:LEU:HD21	1:e:127:GLN:HE21	1.81	0.46
1:c:102:HIS:HE1	1:c:104:LYS:HE3	1.81	0.46
1:c:334:SER:OG	1:c:435:THR:HG23	2.16	0.46
1:c:355:PHE:HE1	1:c:357:GLN:NE2	2.14	0.46
1:d:175:GLN:HE21	1:d:485:LYS:HE2	1.81	0.46
1:d:191:PHE:N	1:d:191:PHE:CD1	2.81	0.46
1:d:267:TYR:CE2	1:d:479:PRO:HD3	2.50	0.46
1:g:129:LEU:HD11	1:g:136:ILE:HG21	1.96	0.46
1:h:102:HIS:HE1	1:h:104:LYS:HE3	1.81	0.46
1:i:529:ASN:O	1:z:124:ALA:HB2	2.15	0.46
1:j:102:HIS:HE1	1:j:104:LYS:HE3	1.81	0.46
1:k:66:ILE:O	1:k:508:GLY:N	2.48	0.46
1:k:284:ARG:HD2	1:l:346:GLY:CA	2.44	0.46
1:l:267:TYR:CE2	1:l:479:PRO:HD3	2.50	0.46
1:n:124:ALA:HB2	1:y:529:ASN:O	2.15	0.46
1:n:179:ASP:O	1:n:480:GLY:HA3	2.15	0.46
1:n:213:VAL:O	1:n:215:THR:HG23	2.16	0.46
1:n:244:PHE:C	1:n:246:PRO:HD3	2.41	0.46
1:o:124:ALA:HB2	1:u:529:ASN:O	2.16	0.46
1:o:470:HIS:O	1:o:470:HIS:CG	2.69	0.46
1:p:343:SER:OG	1:p:344:THR:N	2.48	0.46
1:q:334:SER:OG	1:q:435:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:115:ASN:C	1:s:190:ASN:HD21	2.23	0.46
1:s:343:SER:OG	1:s:344:THR:N	2.48	0.46
1:u:102:HIS:HE1	1:u:104:LYS:HE3	1.81	0.46
1:u:215:THR:O	1:u:216:TRP:HD1	1.98	0.46
1:v:175:GLN:HE21	1:v:485:LYS:HE2	1.81	0.46
1:v:529:ASN:O	1:x:124:ALA:HB2	2.15	0.46
1:w:244:PHE:HE2	1:w:246:PRO:HB3	1.63	0.46
1:x:334:SER:OG	1:x:435:THR:HG23	2.16	0.46
1:y:386:ASP:H	1:y:387:GLN:HA	1.79	0.46
1:y:404:GLN:HE22	1:y:443:ASP:HB2	1.81	0.46
1:z:223:GLN:HB2	1:z:229:GLN:O	2.16	0.46
1:6:379:TYR:CD2	1:6:392:GLU:HG3	2.44	0.46
1:7:191:PHE:N	1:7:191:PHE:CD1	2.81	0.46
1:7:267:TYR:CE2	1:7:479:PRO:HD3	2.50	0.46
1:A:96:THR:HG21	1:A:221:ILE:CG1	2.43	0.46
1:A:102:HIS:HE1	1:A:104:LYS:HE3	1.81	0.46
1:B:323:SER:HG	1:J:98:ASN:HA	1.76	0.46
1:C:343:SER:OG	1:C:344:THR:N	2.48	0.46
1:D:334:SER:OG	1:D:435:THR:HG23	2.16	0.46
1:D:355:PHE:HE1	1:D:357:GLN:NE2	2.14	0.46
1:G:343:SER:OG	1:G:344:THR:N	2.48	0.46
1:I:115:ASN:C	1:I:190:ASN:HD21	2.23	0.46
1:K:215:THR:O	1:K:216:TRP:HD1	1.98	0.46
1:L:404:GLN:HE22	1:L:443:ASP:HB2	1.81	0.46
1:M:244:PHE:C	1:M:246:PRO:HD3	2.41	0.46
1:M:245:THR:HA	1:M:246:PRO:HD2	1.50	0.46
1:N:102:HIS:HE1	1:N:104:LYS:HE3	1.81	0.46
1:N:298:GLU:HA	1:N:299:GLY:HA2	1.56	0.46
1:O:191:PHE:N	1:O:191:PHE:CD1	2.81	0.46
1:P:115:ASN:C	1:P:190:ASN:HD21	2.23	0.46
1:P:175:GLN:HE21	1:P:485:LYS:HE2	1.81	0.46
1:P:343:SER:OG	1:P:344:THR:N	2.48	0.46
1:P:355:PHE:HE1	1:P:357:GLN:NE2	2.14	0.46
1:S:124:ALA:HB2	1:T:529:ASN:O	2.16	0.46
1:T:341:HIS:HE1	1:T:343:SER:HB2	1.81	0.46
1:W:175:GLN:HE21	1:W:485:LYS:HE2	1.81	0.46
1:W:404:GLN:HE22	1:W:443:ASP:HB2	1.81	0.46
1:X:175:GLN:HE21	1:X:485:LYS:HE2	1.81	0.46
1:X:404:GLN:HE22	1:X:443:ASP:HB2	1.81	0.46
1:Y:332:GLY:HA2	1:Y:353:GLN:NE2	2.26	0.46
1:Z:215:THR:O	1:Z:216:TRP:HD1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:267:TYR:CE2	1:Z:479:PRO:HD3	2.50	0.46
1:Z:355:PHE:HE1	1:Z:357:GLN:NE2	2.14	0.46
1:Z:470:HIS:O	1:Z:470:HIS:CG	2.69	0.46
1:0:102:HIS:HE1	1:0:104:LYS:HE3	1.81	0.46
1:1:102:HIS:HE1	1:1:104:LYS:HE3	1.81	0.46
1:1:245:THR:HA	1:1:246:PRO:HD2	1.50	0.46
1:1:334:SER:OG	1:1:435:THR:HG23	2.16	0.46
1:3:102:HIS:HE1	1:3:104:LYS:HE3	1.81	0.46
1:4:215:THR:O	1:4:216:TRP:HD1	1.98	0.46
1:4:404:GLN:HE22	1:4:443:ASP:HB2	1.81	0.46
1:a:102:HIS:HE1	1:a:104:LYS:HE3	1.81	0.46
1:a:175:GLN:HE21	1:a:485:LYS:HE2	1.81	0.46
1:c:115:ASN:C	1:c:190:ASN:HD21	2.23	0.46
1:c:332:GLY:HA2	1:c:353:GLN:NE2	2.26	0.46
1:d:298:GLU:HA	1:d:299:GLY:HA2	1.56	0.46
1:e:213:VAL:O	1:e:215:THR:HG23	2.16	0.46
1:f:334:SER:OG	1:f:435:THR:HG23	2.16	0.46
1:h:225:ASP:HB2	1:h:226:ARG:CB	2.36	0.46
1:i:115:ASN:C	1:i:190:ASN:HD21	2.23	0.46
1:i:374:THR:OG1	1:i:396:GLN:O	2.34	0.46
1:j:334:SER:OG	1:j:435:THR:HG23	2.16	0.46
1:k:89:GLN:NE2	1:k:229:GLN:HB2	2.28	0.46
1:k:109:TRP:CZ3	1:k:485:LYS:HB2	2.48	0.46
1:k:292:SER:HB2	1:k:303:THR:O	2.14	0.46
1:k:341:HIS:HE1	1:k:343:SER:HB2	1.81	0.46
1:m:374:THR:OG1	1:m:396:GLN:O	2.34	0.46
1:n:223:GLN:HB2	1:n:229:GLN:O	2.16	0.46
1:o:129:LEU:HD11	1:o:136:ILE:HG21	1.96	0.46
1:q:215:THR:O	1:q:216:TRP:HD1	1.98	0.46
1:q:245:THR:HA	1:q:246:PRO:HD2	1.50	0.46
1:r:102:HIS:HE1	1:r:104:LYS:HE3	1.81	0.46
1:s:341:HIS:HE1	1:s:343:SER:HB2	1.81	0.46
1:t:191:PHE:N	1:t:191:PHE:CD1	2.81	0.46
1:t:355:PHE:HE1	1:t:357:GLN:NE2	2.14	0.46
1:u:287:GLY:H	1:u:325:ARG:HH12	1.63	0.46
1:v:215:THR:O	1:v:216:TRP:HD1	1.98	0.46
1:w:287:GLY:H	1:w:325:ARG:HH12	1.63	0.46
1:w:470:HIS:O	1:w:470:HIS:CG	2.69	0.46
1:x:102:HIS:HE1	1:x:104:LYS:HE3	1.81	0.46
1:x:355:PHE:HE1	1:x:357:GLN:NE2	2.14	0.46
1:x:404:GLN:HE22	1:x:443:ASP:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:107:THR:CG2	1:z:209:TYR:HD2	2.25	0.46
1:z:245:THR:HA	1:z:246:PRO:HD2	1.50	0.46
1:6:66:ILE:O	1:6:508:GLY:N	2.48	0.46
1:6:245:THR:HA	1:6:246:PRO:HD2	1.50	0.46
1:7:263:GLU:HA	1:7:264:SER:HA	1.76	0.46
1:A:109:TRP:CZ3	1:A:485:LYS:HB2	2.48	0.46
1:A:404:GLN:HE22	1:A:443:ASP:HB2	1.81	0.46
1:B:215:THR:O	1:B:216:TRP:HD1	1.98	0.46
1:B:346:GLY:CA	1:L:284:ARG:HD2	2.44	0.46
1:B:470:HIS:O	1:B:470:HIS:CG	2.69	0.46
1:C:213:VAL:O	1:C:215:THR:HG23	2.16	0.46
1:C:223:GLN:HB2	1:C:229:GLN:O	2.16	0.46
1:C:470:HIS:O	1:C:470:HIS:CG	2.69	0.46
1:D:215:THR:O	1:D:216:TRP:HD1	1.98	0.46
1:D:470:HIS:O	1:D:470:HIS:CG	2.69	0.46
1:E:244:PHE:C	1:E:246:PRO:HD3	2.41	0.46
1:F:89:GLN:NE2	1:F:229:GLN:HB2	2.28	0.46
1:F:223:GLN:HB2	1:F:229:GLN:O	2.16	0.46
1:F:375:GLU:OE2	1:F:445:HIS:NE2	2.49	0.46
1:G:334:SER:OG	1:G:435:THR:HG23	2.16	0.46
1:H:102:HIS:HE1	1:H:104:LYS:HE3	1.81	0.46
1:H:115:ASN:C	1:H:190:ASN:HD21	2.23	0.46
1:H:215:THR:O	1:H:216:TRP:HD1	1.98	0.46
1:H:355:PHE:HE1	1:H:357:GLN:NE2	2.14	0.46
1:I:287:GLY:H	1:I:325:ARG:HH12	1.63	0.46
1:I:355:PHE:HE1	1:I:357:GLN:NE2	2.14	0.46
1:J:374:THR:OG1	1:J:396:GLN:O	2.34	0.46
1:K:355:PHE:HE1	1:K:357:GLN:NE2	2.14	0.46
1:K:404:GLN:HE22	1:K:443:ASP:HB2	1.81	0.46
1:M:158:ALA:HA	1:2:161:GLN:HB3	1.97	0.46
1:N:66:ILE:O	1:N:508:GLY:N	2.48	0.46
1:N:100:SER:O	1:N:100:SER:OG	2.23	0.46
1:N:191:PHE:CD1	1:N:191:PHE:N	2.81	0.46
1:N:341:HIS:HE1	1:N:343:SER:HB2	1.81	0.46
1:O:66:ILE:O	1:O:508:GLY:N	2.48	0.46
1:O:284:ARG:HD2	1:g:346:GLY:CA	2.44	0.46
1:O:343:SER:OG	1:O:344:THR:N	2.48	0.46
1:P:341:HIS:HE1	1:P:343:SER:HB2	1.81	0.46
1:R:267:TYR:CE2	1:R:479:PRO:HD3	2.50	0.46
1:R:318:ASN:HA	1:R:319:PRO:HA	1.81	0.46
1:R:375:GLU:OE2	1:R:445:HIS:NE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:386:ASP:H	1:R:387:GLN:HA	1.79	0.46
1:R:404:GLN:HE22	1:R:443:ASP:HB2	1.81	0.46
1:S:107:THR:CG2	1:S:209:TYR:HD2	2.25	0.46
1:S:109:TRP:CZ3	1:S:485:LYS:HB2	2.48	0.46
1:S:175:GLN:HE21	1:S:485:LYS:HE2	1.81	0.46
1:T:115:ASN:C	1:T:190:ASN:HD21	2.23	0.46
1:T:213:VAL:O	1:T:215:THR:HG23	2.16	0.46
1:T:374:THR:OG1	1:T:396:GLN:O	2.34	0.46
1:U:491:THR:OG1	1:U:502:SER:O	2.30	0.46
1:V:114:ALA:HB1	1:V:120:TRP:NE1	2.28	0.46
1:V:175:GLN:HE21	1:V:485:LYS:HE2	1.81	0.46
1:V:341:HIS:HE1	1:V:343:SER:HB2	1.81	0.46
1:V:523:ARG:NH2	1:V:563:MET:HE3	2.30	0.46
1:W:102:HIS:HE1	1:W:104:LYS:HE3	1.81	0.46
1:W:355:PHE:HE1	1:W:357:GLN:NE2	2.14	0.46
1:X:102:HIS:HE1	1:X:104:LYS:HE3	1.81	0.46
1:X:115:ASN:C	1:X:190:ASN:HD21	2.23	0.46
1:Y:37:SER:CB	1:x:257:ARG:CG	2.72	0.46
1:Y:215:THR:O	1:Y:216:TRP:HD1	1.98	0.46
1:0:114:ALA:HB1	1:0:120:TRP:NE1	2.28	0.46
1:0:175:GLN:HE21	1:0:485:LYS:HE2	1.81	0.46
1:0:404:GLN:HE22	1:0:443:ASP:HB2	1.81	0.46
1:1:115:ASN:C	1:1:190:ASN:HD21	2.23	0.46
1:2:334:SER:OG	1:2:435:THR:HG23	2.16	0.46
1:2:341:HIS:HE1	1:2:343:SER:HB2	1.81	0.46
1:3:89:GLN:NE2	1:3:229:GLN:HB2	2.28	0.46
1:3:334:SER:OG	1:3:435:THR:HG23	2.16	0.46
1:5:307:ASN:C	1:b:391:ARG:HH12	2.23	0.46
1:5:341:HIS:HE1	1:5:343:SER:HB2	1.81	0.46
1:5:346:GLY:CA	1:a:284:ARG:HD2	2.45	0.46
1:a:244:PHE:C	1:a:246:PRO:HD3	2.41	0.46
1:a:470:HIS:O	1:a:470:HIS:CG	2.69	0.46
1:b:287:GLY:H	1:b:325:ARG:HH12	1.63	0.46
1:b:334:SER:HG	1:b:435:THR:CB	2.26	0.46
1:b:404:GLN:HE22	1:b:443:ASP:HB2	1.81	0.46
1:d:244:PHE:C	1:d:246:PRO:HD3	2.41	0.46
1:e:223:GLN:HB2	1:e:229:GLN:O	2.16	0.46
1:g:431:SER:OG	1:g:433:HIS:CD2	2.68	0.46
1:h:298:GLU:HA	1:h:299:GLY:HA2	1.56	0.46
1:i:107:THR:CG2	1:i:209:TYR:HD2	2.25	0.46
1:i:109:TRP:CZ3	1:i:485:LYS:HB2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:213:VAL:O	1:i:215:THR:HG23	2.16	0.46
1:k:215:THR:O	1:k:216:TRP:HD1	1.98	0.46
1:k:343:SER:OG	1:k:344:THR:N	2.48	0.46
1:k:346:GLY:CA	1:m:284:ARG:HD2	2.44	0.46
1:k:355:PHE:HE1	1:k:357:GLN:NE2	2.14	0.46
1:m:102:HIS:HE1	1:m:104:LYS:HE3	1.81	0.46
1:o:223:GLN:HB2	1:o:229:GLN:O	2.16	0.46
1:o:245:THR:HA	1:o:246:PRO:HD2	1.50	0.46
1:o:431:SER:OG	1:o:433:HIS:CD2	2.68	0.46
1:p:161:GLN:HB3	1:q:158:ALA:HA	1.98	0.46
1:q:332:GLY:HA2	1:q:353:GLN:NE2	2.26	0.46
1:q:374:THR:OG1	1:q:396:GLN:O	2.34	0.46
1:r:404:GLN:HE22	1:r:443:ASP:HB2	1.81	0.46
1:s:175:GLN:HE21	1:s:485:LYS:HE2	1.81	0.46
1:s:213:VAL:O	1:s:215:THR:HG23	2.16	0.46
1:s:355:PHE:HE1	1:s:357:GLN:NE2	2.14	0.46
1:t:223:GLN:HB2	1:t:229:GLN:O	2.16	0.46
1:t:287:GLY:H	1:t:325:ARG:HH12	1.63	0.46
1:u:96:THR:HG21	1:u:221:ILE:CG1	2.43	0.46
1:u:109:TRP:CZ3	1:u:485:LYS:HB2	2.48	0.46
1:v:334:SER:OG	1:v:435:THR:HG23	2.16	0.46
1:v:343:SER:OG	1:v:344:THR:N	2.48	0.46
1:w:102:HIS:HE1	1:w:104:LYS:HE3	1.81	0.46
1:w:175:GLN:HE21	1:w:485:LYS:HE2	1.81	0.46
1:x:215:THR:O	1:x:216:TRP:HD1	1.98	0.46
1:y:267:TYR:CE2	1:y:479:PRO:HD3	2.50	0.46
1:y:355:PHE:HE1	1:y:357:GLN:NE2	2.14	0.46
1:y:375:GLU:OE2	1:y:445:HIS:NE2	2.50	0.46
1:z:175:GLN:HE21	1:z:485:LYS:HE2	1.81	0.46
1:z:341:HIS:HE1	1:z:343:SER:HB2	1.81	0.46
1:z:523:ARG:NH2	1:z:563:MET:HE3	2.30	0.46
1:6:129:LEU:HD11	1:6:136:ILE:HG21	1.96	0.46
1:7:175:GLN:HE21	1:7:485:LYS:HE2	1.81	0.46
1:7:355:PHE:HE1	1:7:357:GLN:NE2	2.14	0.46
1:7:523:ARG:NH2	1:7:563:MET:HE3	2.30	0.46
1:A:244:PHE:C	1:A:246:PRO:HD3	2.41	0.45
1:A:469:ALA:HB2	1:I:439:TYR:CZ	2.49	0.45
1:B:89:GLN:NE2	1:B:229:GLN:HB2	2.28	0.45
1:B:175:GLN:HE21	1:B:485:LYS:HE2	1.81	0.45
1:B:244:PHE:C	1:B:246:PRO:HD3	2.41	0.45
1:D:213:VAL:O	1:D:215:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:GLN:HB2	1:D:229:GLN:O	2.16	0.45
1:D:284:ARG:HD2	1:N:346:GLY:CA	2.44	0.45
1:D:374:THR:OG1	1:D:396:GLN:O	2.34	0.45
1:D:375:GLU:OE2	1:D:445:HIS:NE2	2.50	0.45
1:E:146:GLU:HA	1:E:147:ASN:HA	1.79	0.45
1:F:129:LEU:HD11	1:F:136:ILE:HG21	1.96	0.45
1:F:213:VAL:O	1:F:215:THR:HG23	2.16	0.45
1:F:431:SER:OG	1:F:433:HIS:CD2	2.68	0.45
1:H:175:GLN:HE21	1:H:485:LYS:HE2	1.81	0.45
1:I:223:GLN:HB2	1:I:229:GLN:O	2.16	0.45
1:J:334:SER:HG	1:J:435:THR:CB	2.26	0.45
1:J:390:MET:HA	1:J:391:ARG:HA	1.72	0.45
1:L:175:GLN:HE21	1:L:485:LYS:HE2	1.81	0.45
1:M:191:PHE:N	1:M:191:PHE:CD1	2.81	0.45
1:M:341:HIS:HE1	1:M:343:SER:HB2	1.81	0.45
1:N:404:GLN:HE22	1:N:443:ASP:HB2	1.81	0.45
1:P:213:VAL:O	1:P:215:THR:HG23	2.16	0.45
1:P:223:GLN:HB2	1:P:229:GLN:O	2.16	0.45
1:P:244:PHE:C	1:P:246:PRO:HD3	2.41	0.45
1:Q:223:GLN:HB2	1:Q:229:GLN:O	2.16	0.45
1:S:37:SER:HG	1:3:257:ARG:N	2.09	0.45
1:T:287:GLY:H	1:T:325:ARG:HH12	1.63	0.45
1:U:66:ILE:O	1:U:508:GLY:N	2.48	0.45
1:U:379:TYR:CD2	1:U:392:GLU:HG3	2.43	0.45
1:V:213:VAL:O	1:V:215:THR:HG23	2.16	0.45
1:V:257:ARG:HG2	1:W:37:SER:CA	2.32	0.45
1:V:355:PHE:HE1	1:V:357:GLN:NE2	2.14	0.45
1:W:115:ASN:C	1:W:190:ASN:HD21	2.23	0.45
1:W:225:ASP:HB2	1:W:226:ARG:CB	2.36	0.45
1:W:318:ASN:HA	1:W:319:PRO:HA	1.81	0.45
1:X:114:ALA:HB1	1:X:120:TRP:NE1	2.28	0.45
1:Y:161:GLN:HB3	1:x:158:ALA:HA	1.98	0.45
1:Y:223:GLN:HB2	1:Y:229:GLN:O	2.16	0.45
1:Y:374:THR:OG1	1:Y:396:GLN:O	2.34	0.45
1:Y:431:SER:OG	1:Y:433:HIS:CD2	2.68	0.45
1:Z:134:ARG:O	1:Z:276:LEU:N	2.32	0.45
1:Z:223:GLN:HB2	1:Z:229:GLN:O	2.16	0.45
1:Z:431:SER:OG	1:Z:433:HIS:CD2	2.68	0.45
1:0:109:TRP:CZ3	1:0:485:LYS:HB2	2.48	0.45
1:0:115:ASN:C	1:0:190:ASN:HD21	2.23	0.45
1:0:375:GLU:OE2	1:0:445:HIS:NE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:244:PHE:C	1:2:246:PRO:HD3	2.41	0.45
1:2:379:TYR:CD2	1:2:392:GLU:HG3	2.44	0.45
1:3:375:GLU:OE2	1:3:445:HIS:NE2	2.50	0.45
1:4:355:PHE:HE1	1:4:357:GLN:NE2	2.14	0.45
1:5:98:ASN:HA	1:a:323:SER:HG	1.77	0.45
1:5:102:HIS:HE1	1:5:104:LYS:HE3	1.81	0.45
1:5:375:GLU:OE2	1:5:445:HIS:NE2	2.49	0.45
1:a:355:PHE:HE1	1:a:357:GLN:NE2	2.14	0.45
1:a:375:GLU:OE2	1:a:445:HIS:NE2	2.49	0.45
1:b:175:GLN:HE21	1:b:485:LYS:HE2	1.81	0.45
1:b:244:PHE:C	1:b:246:PRO:HD3	2.41	0.45
1:c:96:THR:HG21	1:c:221:ILE:CG1	2.43	0.45
1:d:158:ALA:HA	1:f:161:GLN:HB3	1.98	0.45
1:d:341:HIS:HE1	1:d:343:SER:HB2	1.81	0.45
1:e:343:SER:OG	1:e:344:THR:N	2.48	0.45
1:e:470:HIS:O	1:e:470:HIS:CG	2.69	0.45
1:f:341:HIS:HE1	1:f:343:SER:HB2	1.81	0.45
1:g:244:PHE:C	1:g:246:PRO:HD3	2.41	0.45
1:g:287:GLY:H	1:g:325:ARG:HH12	1.63	0.45
1:i:161:GLN:HB3	1:6:158:ALA:HA	1.98	0.45
1:i:341:HIS:HE1	1:i:343:SER:HB2	1.81	0.45
1:i:390:MET:HA	1:i:391:ARG:HA	1.72	0.45
1:j:161:GLN:HB3	1:k:158:ALA:HA	1.98	0.45
1:j:375:GLU:OE2	1:j:445:HIS:NE2	2.49	0.45
1:k:213:VAL:O	1:k:215:THR:HG23	2.16	0.45
1:l:146:GLU:HA	1:l:147:ASN:HA	1.79	0.45
1:l:244:PHE:C	1:l:246:PRO:HD3	2.41	0.45
1:l:390:MET:HA	1:l:391:ARG:HA	1.72	0.45
1:l:431:SER:OG	1:l:433:HIS:CD2	2.68	0.45
1:l:470:HIS:O	1:l:470:HIS:CG	2.69	0.45
1:m:225:ASP:HB2	1:m:226:ARG:CB	2.36	0.45
1:m:244:PHE:C	1:m:246:PRO:HD3	2.41	0.45
1:n:341:HIS:HE1	1:n:343:SER:HB2	1.81	0.45
1:o:213:VAL:O	1:o:215:THR:HG23	2.16	0.45
1:o:375:GLU:OE2	1:o:445:HIS:NE2	2.49	0.45
1:p:244:PHE:C	1:p:246:PRO:HD3	2.41	0.45
1:q:213:VAL:O	1:q:215:THR:HG23	2.16	0.45
1:q:470:HIS:O	1:q:470:HIS:CG	2.69	0.45
1:s:223:GLN:HB2	1:s:229:GLN:O	2.16	0.45
1:s:244:PHE:C	1:s:246:PRO:HD3	2.41	0.45
1:t:102:HIS:HE1	1:t:104:LYS:HE3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:115:ASN:C	1:t:190:ASN:HD21	2.23	0.45
1:t:156:THR:O	1:t:163:THR:OG1	2.25	0.45
1:u:404:GLN:HE22	1:u:443:ASP:HB2	1.81	0.45
1:v:404:GLN:HE22	1:v:443:ASP:HB2	1.81	0.45
1:v:431:SER:OG	1:v:433:HIS:CD2	2.68	0.45
1:w:37:SER:CB	1:7:257:ARG:CG	2.72	0.45
1:w:115:ASN:C	1:w:190:ASN:HD21	2.23	0.45
1:w:225:ASP:HB2	1:w:226:ARG:CB	2.36	0.45
1:w:355:PHE:HE1	1:w:357:GLN:NE2	2.14	0.45
1:w:404:GLN:HE22	1:w:443:ASP:HB2	1.81	0.45
1:z:390:MET:HA	1:z:391:ARG:HA	1.72	0.45
1:6:102:HIS:HE1	1:6:104:LYS:HE3	1.81	0.45
1:7:213:VAL:O	1:7:215:THR:HG23	2.16	0.45
1:7:341:HIS:HE1	1:7:343:SER:HB2	1.81	0.45
1:7:404:GLN:HE22	1:7:443:ASP:HB2	1.81	0.45
1:A:66:ILE:O	1:A:508:GLY:N	2.48	0.45
1:A:431:SER:OG	1:A:433:HIS:CD2	2.68	0.45
1:A:559:PRO:HA	1:A:560:GLY:HA3	1.80	0.45
1:B:213:VAL:O	1:B:215:THR:HG23	2.16	0.45
1:B:375:GLU:OE2	1:B:445:HIS:NE2	2.49	0.45
1:D:158:ALA:HA	1:E:161:GLN:HB3	1.98	0.45
1:F:101:TYR:CZ	1:F:236:GLY:HA3	2.44	0.45
1:F:175:GLN:HE21	1:F:485:LYS:HE2	1.81	0.45
1:G:35:GLY:O	1:G:36:HIS:C	2.60	0.45
1:G:223:GLN:HB2	1:G:229:GLN:O	2.16	0.45
1:H:158:ALA:HA	1:Z:161:GLN:HB3	1.98	0.45
1:H:213:VAL:O	1:H:215:THR:HG23	2.16	0.45
1:J:102:HIS:HE1	1:J:104:LYS:HE3	1.81	0.45
1:J:341:HIS:HE1	1:J:343:SER:HB2	1.81	0.45
1:J:375:GLU:OE2	1:J:445:HIS:NE2	2.50	0.45
1:K:175:GLN:HE21	1:K:485:LYS:HE2	1.81	0.45
1:L:102:HIS:HE1	1:L:104:LYS:HE3	1.81	0.45
1:L:244:PHE:C	1:L:246:PRO:HD3	2.41	0.45
1:L:287:GLY:H	1:L:325:ARG:HH12	1.63	0.45
1:L:334:SER:HG	1:L:435:THR:CB	2.26	0.45
1:M:375:GLU:OE2	1:M:445:HIS:NE2	2.50	0.45
1:O:213:VAL:O	1:O:215:THR:HG23	2.16	0.45
1:O:215:THR:O	1:O:216:TRP:HD1	1.98	0.45
1:O:257:ARG:CG	1:3:37:SER:CB	2.73	0.45
1:O:346:GLY:CA	1:h:284:ARG:HD2	2.44	0.45
1:O:355:PHE:HE1	1:O:357:GLN:NE2	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:374:THR:OG1	1:P:396:GLN:O	2.34	0.45
1:Q:225:ASP:HB2	1:Q:226:ARG:CB	2.36	0.45
1:Q:341:HIS:HE1	1:Q:343:SER:HB2	1.81	0.45
1:Q:375:GLU:OE2	1:Q:445:HIS:NE2	2.49	0.45
1:R:158:ALA:HA	1:V:161:GLN:HB3	1.98	0.45
1:R:287:GLY:H	1:R:325:ARG:HH12	1.63	0.45
1:R:355:PHE:HE1	1:R:357:GLN:NE2	2.14	0.45
1:S:523:ARG:NH2	1:S:563:MET:HE3	2.30	0.45
1:T:107:THR:CG2	1:T:209:TYR:HD2	2.25	0.45
1:U:102:HIS:HE1	1:U:104:LYS:HE3	1.81	0.45
1:U:129:LEU:HD11	1:U:136:ILE:HG21	1.96	0.45
1:V:334:SER:OG	1:V:435:THR:HG23	2.16	0.45
1:W:244:PHE:C	1:W:246:PRO:HD3	2.41	0.45
1:W:287:GLY:H	1:W:325:ARG:HH12	1.63	0.45
1:X:375:GLU:OE2	1:X:445:HIS:NE2	2.50	0.45
1:Z:374:THR:OG1	1:Z:396:GLN:O	2.34	0.45
1:1:244:PHE:C	1:1:246:PRO:HD3	2.41	0.45
1:1:374:THR:OG1	1:1:396:GLN:O	2.34	0.45
1:1:375:GLU:OE2	1:1:445:HIS:NE2	2.49	0.45
1:2:213:VAL:O	1:2:215:THR:HG23	2.16	0.45
1:2:298:GLU:HA	1:2:299:GLY:HA2	1.56	0.45
1:4:549:ALA:O	1:b:75:ARG:HD2	2.16	0.45
1:5:374:THR:OG1	1:5:396:GLN:O	2.34	0.45
1:a:213:VAL:O	1:a:215:THR:HG23	2.16	0.45
1:a:349:ILE:CD1	1:b:324:THR:HG22	2.46	0.45
1:b:102:HIS:HE1	1:b:104:LYS:HE3	1.81	0.45
1:c:375:GLU:OE2	1:c:445:HIS:NE2	2.49	0.45
1:d:375:GLU:OE2	1:d:445:HIS:NE2	2.50	0.45
1:e:287:GLY:H	1:e:325:ARG:HH12	1.63	0.45
1:e:404:GLN:HE22	1:e:443:ASP:HB2	1.81	0.45
1:e:431:SER:OG	1:e:433:HIS:CD2	2.68	0.45
1:f:244:PHE:C	1:f:246:PRO:HD3	2.41	0.45
1:g:213:VAL:O	1:g:215:THR:HG23	2.16	0.45
1:g:225:ASP:HB2	1:g:226:ARG:CB	2.36	0.45
1:m:375:GLU:OE2	1:m:445:HIS:NE2	2.50	0.45
1:n:346:GLY:CA	1:p:284:ARG:HD2	2.44	0.45
1:n:470:HIS:O	1:n:470:HIS:CG	2.69	0.45
1:o:89:GLN:NE2	1:o:229:GLN:HB2	2.28	0.45
1:q:223:GLN:HB2	1:q:229:GLN:O	2.16	0.45
1:q:284:ARG:HD2	1:r:346:GLY:CA	2.44	0.45
1:q:343:SER:OG	1:q:344:THR:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:375:GLU:OE2	1:q:445:HIS:NE2	2.50	0.45
1:r:66:ILE:O	1:r:508:GLY:N	2.48	0.45
1:r:341:HIS:HE1	1:r:343:SER:HB2	1.81	0.45
1:s:287:GLY:H	1:s:325:ARG:HH12	1.63	0.45
1:t:375:GLU:OE2	1:t:445:HIS:NE2	2.49	0.45
1:t:404:GLN:HE22	1:t:443:ASP:HB2	1.81	0.45
1:u:244:PHE:C	1:u:246:PRO:HD3	2.41	0.45
1:v:355:PHE:HE1	1:v:357:GLN:NE2	2.14	0.45
1:v:375:GLU:OE2	1:v:445:HIS:NE2	2.49	0.45
1:w:244:PHE:C	1:w:246:PRO:HD3	2.41	0.45
1:x:213:VAL:O	1:x:215:THR:HG23	2.16	0.45
1:y:158:ALA:HA	1:7:161:GLN:HB3	1.98	0.45
1:y:318:ASN:HA	1:y:319:PRO:HA	1.81	0.45
1:z:109:TRP:CZ3	1:z:485:LYS:HB2	2.48	0.45
1:6:375:GLU:OE2	1:6:445:HIS:NE2	2.50	0.45
1:7:287:GLY:H	1:7:325:ARG:HH12	1.63	0.45
1:B:179:ASP:O	1:B:480:GLY:HA3	2.15	0.45
1:B:355:PHE:HE1	1:B:357:GLN:NE2	2.14	0.45
1:C:404:GLN:HE22	1:C:443:ASP:HB2	1.81	0.45
1:D:343:SER:OG	1:D:344:THR:N	2.48	0.45
1:E:284:ARG:HD2	1:Q:346:GLY:CA	2.44	0.45
1:E:353:GLN:NE2	1:E:404:GLN:HB3	2.32	0.45
1:F:469:ALA:CB	1:Q:439:TYR:CE1	2.87	0.45
1:G:355:PHE:HE1	1:G:357:GLN:NE2	2.14	0.45
1:G:375:GLU:OE2	1:G:445:HIS:NE2	2.50	0.45
1:G:404:GLN:HE22	1:G:443:ASP:HB2	1.81	0.45
1:G:431:SER:OG	1:G:433:HIS:CD2	2.68	0.45
1:H:245:THR:HA	1:H:246:PRO:HD2	1.50	0.45
1:H:298:GLU:HA	1:H:299:GLY:HA2	1.56	0.45
1:H:374:THR:OG1	1:H:396:GLN:O	2.34	0.45
1:I:102:HIS:HE1	1:I:104:LYS:HE3	1.81	0.45
1:I:375:GLU:OE2	1:I:445:HIS:NE2	2.50	0.45
1:J:223:GLN:HB2	1:J:229:GLN:O	2.16	0.45
1:K:161:GLN:HB3	1:L:158:ALA:HA	1.98	0.45
1:K:223:GLN:HB2	1:K:229:GLN:O	2.16	0.45
1:K:431:SER:OG	1:K:433:HIS:CD2	2.68	0.45
1:L:66:ILE:O	1:L:508:GLY:N	2.48	0.45
1:M:223:GLN:HB2	1:M:229:GLN:O	2.16	0.45
1:P:353:GLN:NE2	1:P:404:GLN:HB3	2.32	0.45
1:Q:355:PHE:HE1	1:Q:357:GLN:NE2	2.14	0.45
1:S:215:THR:O	1:S:216:TRP:HD1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:109:TRP:CZ3	1:T:485:LYS:HB2	2.48	0.45
1:T:161:GLN:HB3	1:U:158:ALA:HA	1.98	0.45
1:T:175:GLN:HE21	1:T:485:LYS:HE2	1.81	0.45
1:T:353:GLN:NE2	1:T:404:GLN:HB3	2.32	0.45
1:T:404:GLN:HE22	1:T:443:ASP:HB2	1.81	0.45
1:U:35:GLY:O	1:U:36:HIS:C	2.60	0.45
1:U:375:GLU:OE2	1:U:445:HIS:NE2	2.50	0.45
1:V:98:ASN:HA	1:X:323:SER:HG	1.75	0.45
1:V:287:GLY:H	1:V:325:ARG:HH12	1.63	0.45
1:W:35:GLY:O	1:W:36:HIS:C	2.60	0.45
1:W:191:PHE:N	1:W:191:PHE:CD1	2.81	0.45
1:X:161:GLN:HB3	1:Y:158:ALA:HA	1.97	0.45
1:X:343:SER:OG	1:X:344:THR:N	2.48	0.45
1:Y:353:GLN:NE2	1:Y:404:GLN:HB3	2.32	0.45
1:Z:353:GLN:NE2	1:Z:404:GLN:HB3	2.32	0.45
1:0:343:SER:OG	1:0:344:THR:N	2.48	0.45
1:1:332:GLY:HA2	1:1:353:GLN:NE2	2.26	0.45
1:1:353:GLN:NE2	1:1:404:GLN:HB3	2.32	0.45
1:2:528:TRP:CB	1:i:246:PRO:CG	2.65	0.45
1:4:175:GLN:HE21	1:4:485:LYS:HE2	1.81	0.45
1:4:223:GLN:HB2	1:4:229:GLN:O	2.16	0.45
1:5:223:GLN:HB2	1:5:229:GLN:O	2.16	0.45
1:a:386:ASP:H	1:a:387:GLN:HA	1.79	0.45
1:c:223:GLN:HB2	1:c:229:GLN:O	2.16	0.45
1:c:244:PHE:C	1:c:246:PRO:HD3	2.41	0.45
1:c:245:THR:HA	1:c:246:PRO:HD2	1.50	0.45
1:c:353:GLN:NE2	1:c:404:GLN:HB3	2.32	0.45
1:d:223:GLN:HB2	1:d:229:GLN:O	2.16	0.45
1:d:284:ARG:HD2	1:e:346:GLY:CA	2.44	0.45
1:f:158:ALA:HA	1:h:161:GLN:HB3	1.98	0.45
1:f:213:VAL:O	1:f:215:THR:HG23	2.16	0.45
1:f:353:GLN:NE2	1:f:404:GLN:HB3	2.32	0.45
1:g:161:GLN:HB3	1:m:158:ALA:HA	1.98	0.45
1:g:404:GLN:HE22	1:g:443:ASP:HB2	1.81	0.45
1:h:244:PHE:C	1:h:246:PRO:HD3	2.41	0.45
1:h:375:GLU:OE2	1:h:445:HIS:NE2	2.50	0.45
1:i:175:GLN:HE21	1:i:485:LYS:HE2	1.81	0.45
1:i:287:GLY:H	1:i:325:ARG:HH12	1.63	0.45
1:i:404:GLN:HE22	1:i:443:ASP:HB2	1.81	0.45
1:j:529:ASN:O	1:m:124:ALA:HB2	2.16	0.45
1:k:244:PHE:C	1:k:246:PRO:HD3	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:374:THR:OG1	1:k:396:GLN:O	2.34	0.45
1:l:213:VAL:O	1:l:215:THR:HG23	2.16	0.45
1:l:375:GLU:OE2	1:l:445:HIS:NE2	2.50	0.45
1:m:334:SER:OG	1:m:435:THR:HG23	2.16	0.45
1:n:375:GLU:OE2	1:n:445:HIS:NE2	2.49	0.45
1:o:175:GLN:HE21	1:o:485:LYS:HE2	1.81	0.45
1:o:374:THR:OG1	1:o:396:GLN:O	2.34	0.45
1:p:353:GLN:NE2	1:p:404:GLN:HB3	2.32	0.45
1:p:355:PHE:HE1	1:p:357:GLN:NE2	2.14	0.45
1:s:267:TYR:CE2	1:s:479:PRO:HD3	2.50	0.45
1:s:353:GLN:NE2	1:s:404:GLN:HB3	2.32	0.45
1:t:257:ARG:HG2	1:x:37:SER:CA	2.32	0.45
1:v:35:GLY:O	1:v:36:HIS:C	2.60	0.45
1:v:223:GLN:HB2	1:v:229:GLN:O	2.17	0.45
1:w:37:SER:CA	1:7:257:ARG:HG2	2.31	0.45
1:w:161:GLN:HB3	1:7:158:ALA:HA	1.98	0.45
1:x:115:ASN:C	1:x:190:ASN:HD21	2.23	0.45
1:x:175:GLN:HE21	1:x:485:LYS:HE2	1.81	0.45
1:x:374:THR:OG1	1:x:396:GLN:O	2.34	0.45
1:z:355:PHE:HE1	1:z:357:GLN:NE2	2.14	0.45
1:7:114:ALA:HB1	1:7:120:TRP:NE1	2.28	0.45
1:7:134:ARG:O	1:7:276:LEU:N	2.32	0.45
1:A:89:GLN:NE2	1:A:229:GLN:HB2	2.28	0.45
1:A:310:CYS:HB3	1:G:192:TYR:CD1	2.51	0.45
1:A:341:HIS:HE1	1:A:343:SER:HB2	1.81	0.45
1:A:375:GLU:OE2	1:A:445:HIS:NE2	2.50	0.45
1:A:439:TYR:CE1	1:G:469:ALA:CB	2.86	0.45
1:B:374:THR:OG1	1:B:396:GLN:O	2.34	0.45
1:B:386:ASP:H	1:B:387:GLN:HA	1.79	0.45
1:C:287:GLY:H	1:C:325:ARG:HH12	1.63	0.45
1:C:346:GLY:CA	1:M:284:ARG:HD2	2.44	0.45
1:C:431:SER:OG	1:C:433:HIS:CD2	2.68	0.45
1:E:355:PHE:HE1	1:E:357:GLN:NE2	2.14	0.45
1:F:35:GLY:O	1:F:36:HIS:C	2.60	0.45
1:F:374:THR:OG1	1:F:396:GLN:O	2.34	0.45
1:G:353:GLN:NE2	1:G:404:GLN:HB3	2.32	0.45
1:G:374:THR:OG1	1:G:396:GLN:O	2.34	0.45
1:H:257:ARG:N	1:Z:37:SER:HG	2.10	0.45
1:I:404:GLN:HE22	1:I:443:ASP:HB2	1.81	0.45
1:J:161:GLN:HB3	1:0:158:ALA:HA	1.98	0.45
1:J:284:ARG:HD2	1:L:346:GLY:CA	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:353:GLN:NE2	1:J:404:GLN:HB3	2.32	0.45
1:K:353:GLN:NE2	1:K:404:GLN:HB3	2.32	0.45
1:L:161:GLN:HB3	1:1:158:ALA:HA	1.98	0.45
1:L:353:GLN:NE2	1:L:404:GLN:HB3	2.32	0.45
1:L:431:SER:OG	1:L:433:HIS:CD2	2.68	0.45
1:M:353:GLN:NE2	1:M:404:GLN:HB3	2.32	0.45
1:O:353:GLN:NE2	1:O:404:GLN:HB3	2.32	0.45
1:O:374:THR:OG1	1:O:396:GLN:O	2.34	0.45
1:P:267:TYR:CE2	1:P:479:PRO:HD3	2.50	0.45
1:P:287:GLY:H	1:P:325:ARG:HH12	1.63	0.45
1:Q:287:GLY:H	1:Q:325:ARG:HH12	1.63	0.45
1:Q:470:HIS:O	1:Q:470:HIS:CG	2.69	0.45
1:S:284:ARG:HD2	1:U:346:GLY:CA	2.44	0.45
1:S:334:SER:OG	1:S:435:THR:HG23	2.16	0.45
1:S:375:GLU:OE2	1:S:445:HIS:NE2	2.49	0.45
1:T:332:GLY:HA2	1:T:353:GLN:NE2	2.26	0.45
1:V:404:GLN:HE22	1:V:443:ASP:HB2	1.81	0.45
1:W:341:HIS:HE1	1:W:343:SER:HB2	1.81	0.45
1:X:341:HIS:HE1	1:X:343:SER:HB2	1.81	0.45
1:1:223:GLN:HB2	1:1:229:GLN:O	2.16	0.45
1:1:341:HIS:HE1	1:1:343:SER:HB2	1.81	0.45
1:2:287:GLY:H	1:2:325:ARG:HH12	1.63	0.45
1:2:353:GLN:NE2	1:2:404:GLN:HB3	2.32	0.45
1:4:353:GLN:NE2	1:4:404:GLN:HB3	2.32	0.45
1:4:431:SER:OG	1:4:433:HIS:CD2	2.68	0.45
1:5:353:GLN:NE2	1:5:404:GLN:HB3	2.32	0.45
1:5:411:ASN:ND2	1:b:342:TYR:H	2.14	0.45
1:a:89:GLN:NE2	1:a:229:GLN:HB2	2.28	0.45
1:a:124:ALA:HB2	1:t:529:ASN:O	2.16	0.45
1:a:374:THR:OG1	1:a:396:GLN:O	2.34	0.45
1:b:431:SER:OG	1:b:433:HIS:CD2	2.68	0.45
1:c:374:THR:OG1	1:c:396:GLN:O	2.34	0.45
1:d:353:GLN:NE2	1:d:404:GLN:HB3	2.32	0.45
1:g:66:ILE:O	1:g:508:GLY:N	2.48	0.45
1:g:375:GLU:OE2	1:g:445:HIS:NE2	2.50	0.45
1:g:470:HIS:O	1:g:470:HIS:CG	2.69	0.45
1:i:353:GLN:NE2	1:i:404:GLN:HB3	2.32	0.45
1:k:528:TRP:HB3	1:l:246:PRO:HG3	1.86	0.45
1:l:66:ILE:O	1:l:508:GLY:N	2.48	0.45
1:l:287:GLY:H	1:l:325:ARG:HH12	1.63	0.45
1:l:404:GLN:HE22	1:l:443:ASP:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:404:GLN:HE22	1:m:443:ASP:HB2	1.81	0.45
1:n:355:PHE:HE1	1:n:357:GLN:NE2	2.14	0.45
1:o:179:ASP:OD1	1:o:251:ILE:HG21	2.17	0.45
1:q:66:ILE:O	1:q:508:GLY:N	2.48	0.45
1:q:134:ARG:O	1:q:276:LEU:N	2.32	0.45
1:r:100:SER:O	1:r:100:SER:OG	2.23	0.45
1:s:374:THR:OG1	1:s:396:GLN:O	2.34	0.45
1:s:404:GLN:HE22	1:s:443:ASP:HB2	1.81	0.45
1:t:215:THR:O	1:t:216:TRP:HD1	1.98	0.45
1:u:66:ILE:O	1:u:508:GLY:N	2.48	0.45
1:u:89:GLN:NE2	1:u:229:GLN:HB2	2.28	0.45
1:u:341:HIS:HE1	1:u:343:SER:HB2	1.81	0.45
1:u:353:GLN:NE2	1:u:404:GLN:HB3	2.32	0.45
1:u:375:GLU:OE2	1:u:445:HIS:NE2	2.49	0.45
1:u:431:SER:OG	1:u:433:HIS:CD2	2.68	0.45
1:w:35:GLY:O	1:w:36:HIS:C	2.60	0.45
1:w:179:ASP:OD1	1:w:251:ILE:HG21	2.17	0.45
1:x:66:ILE:O	1:x:508:GLY:N	2.48	0.45
1:y:175:GLN:HE21	1:y:485:LYS:HE2	1.81	0.45
1:y:287:GLY:H	1:y:325:ARG:HH12	1.63	0.45
1:z:35:GLY:O	1:z:36:HIS:C	2.60	0.45
1:z:213:VAL:O	1:z:215:THR:HG23	2.16	0.45
1:z:215:THR:O	1:z:216:TRP:HD1	1.98	0.45
1:z:284:ARG:HD2	1:6:346:GLY:CA	2.44	0.45
1:z:334:SER:OG	1:z:435:THR:HG23	2.16	0.45
1:6:35:GLY:O	1:6:36:HIS:C	2.60	0.45
1:7:334:SER:OG	1:7:435:THR:HG23	2.16	0.45
1:A:353:GLN:NE2	1:A:404:GLN:HB3	2.32	0.45
1:B:158:ALA:HA	1:C:161:GLN:HB3	1.98	0.45
1:B:223:GLN:HB2	1:B:229:GLN:O	2.16	0.45
1:B:404:GLN:HE22	1:B:443:ASP:HB2	1.81	0.45
1:D:134:ARG:O	1:D:276:LEU:N	2.32	0.45
1:D:175:GLN:HE21	1:D:485:LYS:HE2	1.81	0.45
1:F:158:ALA:HA	1:R:161:GLN:HB3	1.98	0.45
1:F:179:ASP:OD1	1:F:251:ILE:HG21	2.17	0.45
1:F:334:SER:OG	1:F:435:THR:HG23	2.16	0.45
1:I:215:THR:O	1:I:216:TRP:HD1	1.98	0.45
1:I:244:PHE:C	1:I:246:PRO:HD3	2.41	0.45
1:J:244:PHE:C	1:J:246:PRO:HD3	2.41	0.45
1:K:89:GLN:NE2	1:K:229:GLN:HB2	2.29	0.45
1:L:341:HIS:HE1	1:L:343:SER:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:287:GLY:H	1:M:325:ARG:HH12	1.63	0.45
1:M:404:GLN:HE22	1:M:443:ASP:HB2	1.81	0.45
1:O:244:PHE:C	1:O:246:PRO:HD3	2.41	0.45
1:O:528:TRP:HB3	1:g:246:PRO:HG3	1.86	0.45
1:Q:175:GLN:HE21	1:Q:485:LYS:HE2	1.81	0.45
1:Q:374:THR:OG1	1:Q:396:GLN:O	2.34	0.45
1:R:175:GLN:HE21	1:R:485:LYS:HE2	1.81	0.45
1:R:223:GLN:HB2	1:R:229:GLN:O	2.16	0.45
1:S:35:GLY:O	1:S:36:HIS:C	2.60	0.45
1:S:134:ARG:O	1:S:276:LEU:N	2.32	0.45
1:S:213:VAL:O	1:S:215:THR:HG23	2.16	0.45
1:S:244:PHE:C	1:S:246:PRO:HD3	2.41	0.45
1:T:215:THR:O	1:T:216:TRP:HD1	1.98	0.45
1:U:179:ASP:OD1	1:U:251:ILE:HG21	2.17	0.45
1:U:223:GLN:HB2	1:U:229:GLN:O	2.16	0.45
1:U:353:GLN:NE2	1:U:404:GLN:HB3	2.32	0.45
1:U:404:GLN:HE22	1:U:443:ASP:HB2	1.81	0.45
1:V:134:ARG:O	1:V:276:LEU:N	2.32	0.45
1:W:179:ASP:OD1	1:W:251:ILE:HG21	2.17	0.45
1:W:244:PHE:HE2	1:W:246:PRO:HB3	1.63	0.45
1:X:334:SER:OG	1:X:435:THR:HG23	2.16	0.45
1:Y:341:HIS:HE1	1:Y:343:SER:HB2	1.81	0.45
1:Y:404:GLN:HE22	1:Y:443:ASP:HB2	1.81	0.45
1:Z:158:ALA:HA	1:0:161:GLN:HB3	1.97	0.45
1:Z:404:GLN:HE22	1:Z:443:ASP:HB2	1.81	0.45
1:0:341:HIS:HE1	1:0:343:SER:HB2	1.81	0.45
1:2:346:GLY:CA	1:j:284:ARG:HD2	2.44	0.45
1:2:375:GLU:OE2	1:2:445:HIS:NE2	2.49	0.45
1:3:341:HIS:HE1	1:3:343:SER:HB2	1.81	0.45
1:4:529:ASN:O	1:5:124:ALA:HB2	2.16	0.45
1:5:527:GLN:HE21	1:b:243:GLN:HG2	1.80	0.45
1:a:161:GLN:HB3	1:u:158:ALA:HA	1.98	0.45
1:a:223:GLN:HB2	1:a:229:GLN:O	2.16	0.45
1:a:338:TRP:N	1:b:414:GLN:O	2.49	0.45
1:a:404:GLN:HE22	1:a:443:ASP:HB2	1.81	0.45
1:b:66:ILE:O	1:b:508:GLY:N	2.48	0.45
1:c:298:GLU:HA	1:c:299:GLY:HA2	1.56	0.45
1:c:341:HIS:HE1	1:c:343:SER:HB2	1.81	0.45
1:d:287:GLY:H	1:d:325:ARG:HH12	1.63	0.45
1:f:215:THR:O	1:f:216:TRP:HD1	1.98	0.45
1:f:375:GLU:OE2	1:f:445:HIS:NE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:379:TYR:CD2	1:f:392:GLU:HG3	2.44	0.45
1:g:353:GLN:NE2	1:g:404:GLN:HB3	2.32	0.45
1:i:215:THR:O	1:i:216:TRP:HD1	1.98	0.45
1:k:353:GLN:NE2	1:k:404:GLN:HB3	2.32	0.45
1:l:353:GLN:NE2	1:l:404:GLN:HB3	2.32	0.45
1:m:191:PHE:N	1:m:191:PHE:CD1	2.81	0.45
1:m:470:HIS:O	1:m:470:HIS:CG	2.69	0.45
1:n:175:GLN:HE21	1:n:485:LYS:HE2	1.81	0.45
1:o:35:GLY:O	1:o:36:HIS:C	2.60	0.45
1:o:158:ALA:HA	1:y:161:GLN:HB3	1.98	0.45
1:o:334:SER:OG	1:o:435:THR:HG23	2.16	0.45
1:p:158:ALA:HA	1:u:161:GLN:HB3	1.98	0.45
1:q:179:ASP:OD1	1:q:251:ILE:HG21	2.17	0.45
1:r:284:ARG:HD2	1:s:346:GLY:CA	2.44	0.45
1:r:470:HIS:O	1:r:470:HIS:CG	2.69	0.45
1:t:244:PHE:C	1:t:246:PRO:HD3	2.41	0.45
1:t:245:THR:HA	1:t:246:PRO:HD2	1.50	0.45
1:v:353:GLN:NE2	1:v:404:GLN:HB3	2.32	0.45
1:w:191:PHE:N	1:w:191:PHE:CD1	2.81	0.45
1:w:341:HIS:HE1	1:w:343:SER:HB2	1.81	0.45
1:x:245:THR:HA	1:x:246:PRO:HD2	1.50	0.45
1:x:375:GLU:OE2	1:x:445:HIS:NE2	2.49	0.45
1:y:223:GLN:HB2	1:y:229:GLN:O	2.16	0.45
1:z:134:ARG:O	1:z:276:LEU:N	2.32	0.45
1:z:375:GLU:OE2	1:z:445:HIS:NE2	2.49	0.45
1:6:179:ASP:OD1	1:6:251:ILE:HG21	2.17	0.45
1:6:223:GLN:HB2	1:6:229:GLN:O	2.16	0.45
1:7:102:HIS:HE1	1:7:104:LYS:HE3	1.81	0.45
1:B:257:ARG:HH11	1:C:35:GLY:C	2.17	0.45
1:B:353:GLN:NE2	1:B:404:GLN:HB3	2.32	0.45
1:C:191:PHE:N	1:C:191:PHE:CD1	2.81	0.45
1:C:244:PHE:C	1:C:246:PRO:HD3	2.41	0.45
1:D:66:ILE:O	1:D:508:GLY:N	2.48	0.45
1:D:179:ASP:OD1	1:D:251:ILE:HG21	2.17	0.45
1:D:334:SER:HG	1:D:435:THR:CB	2.28	0.45
1:E:213:VAL:O	1:E:215:THR:HG23	2.16	0.45
1:E:341:HIS:HE1	1:E:343:SER:HB2	1.81	0.45
1:F:341:HIS:HE1	1:F:343:SER:HB2	1.81	0.45
1:G:244:PHE:C	1:G:246:PRO:HD3	2.41	0.45
1:H:161:GLN:HB3	1:I:158:ALA:HA	1.98	0.45
1:H:223:GLN:HB2	1:H:229:GLN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:375:GLU:OE2	1:H:445:HIS:NE2	2.50	0.45
1:M:332:GLY:HA2	1:M:353:GLN:NE2	2.26	0.45
1:O:404:GLN:HE22	1:O:443:ASP:HB2	1.81	0.45
1:P:375:GLU:OE2	1:P:445:HIS:NE2	2.50	0.45
1:P:404:GLN:HE22	1:P:443:ASP:HB2	1.81	0.45
1:Q:334:SER:OG	1:Q:435:THR:HG23	2.16	0.45
1:R:191:PHE:N	1:R:191:PHE:CD1	2.81	0.45
1:R:439:TYR:CZ	1:S:469:ALA:HB2	2.50	0.45
1:S:355:PHE:HE1	1:S:357:GLN:NE2	2.14	0.45
1:T:223:GLN:HB2	1:T:229:GLN:O	2.16	0.45
1:U:244:PHE:C	1:U:246:PRO:HD3	2.41	0.45
1:U:245:THR:HA	1:U:246:PRO:HD2	1.50	0.45
1:V:102:HIS:HE1	1:V:104:LYS:HE3	1.81	0.45
1:V:375:GLU:OE2	1:V:445:HIS:NE2	2.49	0.45
1:W:334:SER:OG	1:W:435:THR:HG23	2.16	0.45
1:X:109:TRP:CZ3	1:X:485:LYS:HB2	2.48	0.45
1:Y:244:PHE:C	1:Y:246:PRO:HD3	2.41	0.45
1:Z:244:PHE:C	1:Z:246:PRO:HD3	2.41	0.45
1:0:323:SER:HG	1:7:98:ASN:HA	1.75	0.45
1:0:334:SER:OG	1:0:435:THR:HG23	2.16	0.45
1:1:134:ARG:O	1:1:276:LEU:N	2.32	0.45
1:2:215:THR:O	1:2:216:TRP:HD1	1.98	0.45
1:3:213:VAL:O	1:3:215:THR:HG23	2.16	0.45
1:3:284:ARG:HD2	1:f:346:GLY:CA	2.44	0.45
1:3:353:GLN:NE2	1:3:404:GLN:HB3	2.32	0.45
1:4:89:GLN:NE2	1:4:229:GLN:HB2	2.28	0.45
1:5:244:PHE:C	1:5:246:PRO:HD3	2.41	0.45
1:a:179:ASP:O	1:a:480:GLY:HA3	2.15	0.45
1:a:353:GLN:NE2	1:a:404:GLN:HB3	2.32	0.45
1:b:341:HIS:HE1	1:b:343:SER:HB2	1.81	0.45
1:b:353:GLN:NE2	1:b:404:GLN:HB3	2.32	0.45
1:c:528:TRP:CB	1:d:246:PRO:CG	2.65	0.45
1:d:102:HIS:HE1	1:d:104:LYS:HE3	1.81	0.45
1:d:404:GLN:HE22	1:d:443:ASP:HB2	1.81	0.45
1:e:341:HIS:HE1	1:e:343:SER:HB2	1.81	0.45
1:e:353:GLN:NE2	1:e:404:GLN:HB3	2.32	0.45
1:f:287:GLY:H	1:f:325:ARG:HH12	1.63	0.45
1:f:298:GLU:HA	1:f:299:GLY:HA2	1.56	0.45
1:f:386:ASP:H	1:f:387:GLN:HA	1.79	0.45
1:h:179:ASP:OD1	1:h:251:ILE:HG21	2.17	0.45
1:h:341:HIS:HE1	1:h:343:SER:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:470:HIS:O	1:h:470:HIS:CG	2.69	0.45
1:i:223:GLN:HB2	1:i:229:GLN:O	2.16	0.45
1:k:404:GLN:HE22	1:k:443:ASP:HB2	1.81	0.45
1:m:341:HIS:HE1	1:m:343:SER:HB2	1.81	0.45
1:n:35:GLY:O	1:n:36:HIS:C	2.60	0.45
1:n:225:ASP:HB2	1:n:226:ARG:CB	2.36	0.45
1:n:374:THR:OG1	1:n:396:GLN:O	2.34	0.45
1:o:257:ARG:N	1:y:37:SER:HG	2.10	0.45
1:p:146:GLU:HA	1:p:147:ASN:HA	1.78	0.45
1:p:213:VAL:O	1:p:215:THR:HG23	2.16	0.45
1:p:287:GLY:H	1:p:325:ARG:HH12	1.63	0.45
1:q:175:GLN:HE21	1:q:485:LYS:HE2	1.81	0.45
1:r:35:GLY:O	1:r:36:HIS:C	2.60	0.45
1:r:109:TRP:CZ3	1:r:485:LYS:HB2	2.48	0.45
1:r:244:PHE:C	1:r:246:PRO:HD3	2.41	0.45
1:r:267:TYR:CE2	1:r:479:PRO:HD3	2.50	0.45
1:t:439:TYR:CZ	1:u:469:ALA:HB2	2.50	0.45
1:u:223:GLN:HB2	1:u:229:GLN:O	2.16	0.45
1:u:374:THR:OG1	1:u:396:GLN:O	2.34	0.45
1:v:244:PHE:C	1:v:246:PRO:HD3	2.41	0.45
1:v:374:THR:OG1	1:v:396:GLN:O	2.34	0.45
1:w:213:VAL:O	1:w:215:THR:HG23	2.16	0.45
1:z:244:PHE:C	1:z:246:PRO:HD3	2.41	0.45
1:6:287:GLY:H	1:6:325:ARG:HH12	1.63	0.45
1:6:353:GLN:NE2	1:6:404:GLN:HB3	2.32	0.45
1:6:374:THR:OG1	1:6:396:GLN:O	2.34	0.45
1:6:404:GLN:HE22	1:6:443:ASP:HB2	1.81	0.45
1:A:223:GLN:HB2	1:A:229:GLN:O	2.16	0.45
1:B:179:ASP:OD1	1:B:251:ILE:HG21	2.17	0.45
1:C:35:GLY:O	1:C:36:HIS:C	2.60	0.45
1:C:353:GLN:NE2	1:C:404:GLN:HB3	2.32	0.45
1:E:225:ASP:HB2	1:E:226:ARG:CB	2.36	0.45
1:G:213:VAL:O	1:G:215:THR:HG23	2.16	0.45
1:H:66:ILE:O	1:H:508:GLY:N	2.48	0.45
1:I:35:GLY:O	1:I:36:HIS:C	2.60	0.45
1:J:175:GLN:HE21	1:J:485:LYS:HE2	1.81	0.45
1:J:179:ASP:OD1	1:J:251:ILE:HG21	2.17	0.45
1:K:213:VAL:O	1:K:215:THR:HG23	2.16	0.45
1:K:341:HIS:HE1	1:K:343:SER:HB2	1.81	0.45
1:K:375:GLU:OE2	1:K:445:HIS:NE2	2.50	0.45
1:K:439:TYR:CZ	1:0:469:ALA:HB2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:134:ARG:O	1:M:276:LEU:N	2.32	0.45
1:M:334:SER:OG	1:M:435:THR:HG23	2.16	0.45
1:M:414:GLN:HA	1:M:426:HIS:O	2.17	0.45
1:N:35:GLY:O	1:N:36:HIS:C	2.60	0.45
1:N:244:PHE:C	1:N:246:PRO:HD3	2.41	0.45
1:N:267:TYR:CE2	1:N:479:PRO:HD3	2.50	0.45
1:N:284:ARG:HD2	1:P:346:GLY:CA	2.44	0.45
1:N:375:GLU:OE2	1:N:445:HIS:NE2	2.50	0.45
1:N:470:HIS:O	1:N:470:HIS:CG	2.69	0.45
1:O:115:ASN:C	1:O:190:ASN:HD21	2.23	0.45
1:Q:35:GLY:O	1:Q:36:HIS:C	2.60	0.45
1:Q:215:THR:O	1:Q:216:TRP:HD1	1.98	0.45
1:R:439:TYR:CE1	1:S:469:ALA:CB	2.87	0.45
1:T:375:GLU:OE2	1:T:445:HIS:NE2	2.50	0.45
1:T:390:MET:HA	1:T:391:ARG:HA	1.72	0.45
1:U:146:GLU:HA	1:U:147:ASN:HA	1.79	0.45
1:U:287:GLY:H	1:U:325:ARG:HH12	1.63	0.45
1:V:179:ASP:OD1	1:V:251:ILE:HG21	2.17	0.45
1:V:223:GLN:HB2	1:V:229:GLN:O	2.16	0.45
1:V:245:THR:HA	1:V:246:PRO:HD2	1.50	0.45
1:W:213:VAL:O	1:W:215:THR:HG23	2.16	0.45
1:Z:523:ARG:NH2	1:Z:563:MET:HE3	2.30	0.45
1:1:161:GLN:HB3	1:i:158:ALA:HA	1.98	0.45
1:1:431:SER:OG	1:1:433:HIS:CD2	2.68	0.45
1:2:134:ARG:O	1:2:276:LEU:N	2.32	0.45
1:2:386:ASP:H	1:2:387:GLN:HA	1.79	0.45
1:4:375:GLU:OE2	1:4:445:HIS:NE2	2.49	0.45
1:5:175:GLN:HE21	1:5:485:LYS:HE2	1.81	0.45
1:5:245:THR:HA	1:5:246:PRO:HD2	1.50	0.45
1:5:322:ALA:HB3	1:b:100:SER:HB2	1.99	0.45
1:5:381:TRP:O	1:5:381:TRP:CG	2.70	0.45
1:a:179:ASP:OD1	1:a:251:ILE:HG21	2.17	0.45
1:b:101:TYR:CD2	1:b:101:TYR:O	2.70	0.45
1:b:114:ALA:HB1	1:b:120:TRP:NE1	2.28	0.45
1:c:175:GLN:HE21	1:c:485:LYS:HE2	1.81	0.45
1:d:390:MET:HA	1:d:391:ARG:HA	1.72	0.45
1:e:244:PHE:C	1:e:246:PRO:HD3	2.41	0.45
1:f:223:GLN:HB2	1:f:229:GLN:O	2.16	0.45
1:h:213:VAL:O	1:h:215:THR:HG23	2.16	0.45
1:h:353:GLN:NE2	1:h:404:GLN:HB3	2.32	0.45
1:i:102:HIS:HE1	1:i:104:LYS:HE3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:213:VAL:O	1:j:215:THR:HG23	2.16	0.45
1:j:341:HIS:HE1	1:j:343:SER:HB2	1.81	0.45
1:j:353:GLN:NE2	1:j:404:GLN:HB3	2.32	0.45
1:j:404:GLN:HE22	1:j:443:ASP:HB2	1.81	0.45
1:l:257:ARG:HH11	1:r:35:GLY:C	2.17	0.45
1:m:179:ASP:OD1	1:m:251:ILE:HG21	2.17	0.45
1:o:439:TYR:CE1	1:p:469:ALA:CB	2.87	0.45
1:q:146:GLU:HA	1:q:147:ASN:HA	1.78	0.45
1:r:375:GLU:OE2	1:r:445:HIS:NE2	2.49	0.45
1:s:375:GLU:OE2	1:s:445:HIS:NE2	2.49	0.45
1:w:223:GLN:HB2	1:w:229:GLN:O	2.16	0.45
1:w:353:GLN:NE2	1:w:404:GLN:HB3	2.32	0.45
1:w:374:THR:OG1	1:w:396:GLN:O	2.34	0.45
1:x:223:GLN:HB2	1:x:229:GLN:O	2.16	0.45
1:x:318:ASN:HA	1:x:319:PRO:HA	1.81	0.45
1:z:374:THR:OG1	1:z:396:GLN:O	2.34	0.45
1:6:244:PHE:C	1:6:246:PRO:HD3	2.41	0.45
1:7:375:GLU:OE2	1:7:445:HIS:NE2	2.49	0.45
1:A:257:ARG:N	1:B:37:SER:HG	2.10	0.45
1:A:374:THR:OG1	1:A:396:GLN:O	2.34	0.45
1:A:470:HIS:O	1:A:470:HIS:CG	2.69	0.45
1:C:341:HIS:HE1	1:C:343:SER:HB2	1.81	0.45
1:C:375:GLU:OE2	1:C:445:HIS:NE2	2.50	0.45
1:D:244:PHE:C	1:D:246:PRO:HD3	2.41	0.45
1:D:439:TYR:CZ	1:N:469:ALA:HB2	2.50	0.45
1:E:287:GLY:H	1:E:325:ARG:HH12	1.63	0.45
1:E:469:ALA:CB	1:F:439:TYR:CE1	2.87	0.45
1:H:37:SER:CA	1:I:257:ARG:HG2	2.32	0.45
1:J:381:TRP:O	1:J:381:TRP:CG	2.70	0.45
1:K:158:ALA:HA	1:6:161:GLN:HB3	1.98	0.45
1:L:213:VAL:O	1:L:215:THR:HG23	2.16	0.45
1:N:35:GLY:C	1:g:257:ARG:HH11	2.17	0.45
1:N:213:VAL:O	1:N:215:THR:HG23	2.16	0.45
1:O:223:GLN:HB2	1:O:229:GLN:O	2.16	0.45
1:R:179:ASP:OD1	1:R:251:ILE:HG21	2.17	0.45
1:R:381:TRP:O	1:R:381:TRP:CG	2.70	0.45
1:R:431:SER:OG	1:R:433:HIS:CD2	2.68	0.45
1:S:245:THR:HA	1:S:246:PRO:HD2	1.50	0.45
1:S:374:THR:OG1	1:S:396:GLN:O	2.34	0.45
1:T:469:ALA:HB2	1:f:439:TYR:CZ	2.50	0.45
1:U:374:THR:OG1	1:U:396:GLN:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:35:GLY:O	1:V:36:HIS:C	2.60	0.45
1:V:158:ALA:HA	1:W:161:GLN:HB3	1.99	0.45
1:W:223:GLN:HB2	1:W:229:GLN:O	2.16	0.45
1:W:353:GLN:NE2	1:W:404:GLN:HB3	2.32	0.45
1:W:374:THR:OG1	1:W:396:GLN:O	2.34	0.45
1:X:353:GLN:NE2	1:X:404:GLN:HB3	2.32	0.45
1:Y:35:GLY:O	1:Y:36:HIS:C	2.60	0.45
1:Y:175:GLN:HE21	1:Y:485:LYS:HE2	1.81	0.45
1:Y:414:GLN:HA	1:Y:426:HIS:O	2.17	0.45
1:Z:35:GLY:O	1:Z:36:HIS:C	2.60	0.45
1:Z:341:HIS:HE1	1:Z:343:SER:HB2	1.81	0.45
1:Z:414:GLN:HA	1:Z:426:HIS:O	2.17	0.45
1:0:101:TYR:CD2	1:0:101:TYR:O	2.70	0.45
1:0:244:PHE:C	1:0:246:PRO:HD3	2.41	0.45
1:0:353:GLN:NE2	1:0:404:GLN:HB3	2.32	0.45
1:1:35:GLY:O	1:1:36:HIS:C	2.60	0.45
1:1:175:GLN:HE21	1:1:485:LYS:HE2	1.81	0.45
1:2:381:TRP:CG	1:2:381:TRP:O	2.70	0.45
1:2:439:TYR:CZ	1:i:469:ALA:HB2	2.50	0.45
1:3:146:GLU:HA	1:3:147:ASN:HA	1.78	0.45
1:3:175:GLN:HE21	1:3:485:LYS:HE2	1.81	0.45
1:4:341:HIS:HE1	1:4:343:SER:HB2	1.81	0.45
1:5:179:ASP:OD1	1:5:251:ILE:HG21	2.17	0.45
1:a:35:GLY:O	1:a:36:HIS:C	2.60	0.45
1:a:225:ASP:HB2	1:a:226:ARG:CB	2.36	0.45
1:b:213:VAL:O	1:b:215:THR:HG23	2.16	0.45
1:c:35:GLY:O	1:c:36:HIS:C	2.60	0.45
1:d:35:GLY:O	1:d:36:HIS:C	2.60	0.45
1:d:134:ARG:O	1:d:276:LEU:N	2.32	0.45
1:d:215:THR:O	1:d:216:TRP:HD1	1.98	0.45
1:d:334:SER:OG	1:d:435:THR:HG23	2.16	0.45
1:e:35:GLY:O	1:e:36:HIS:C	2.60	0.45
1:e:375:GLU:OE2	1:e:445:HIS:NE2	2.50	0.45
1:f:175:GLN:HE21	1:f:485:LYS:HE2	1.81	0.45
1:f:404:GLN:HE22	1:f:443:ASP:HB2	1.81	0.45
1:g:175:GLN:HE21	1:g:485:LYS:HE2	1.81	0.45
1:h:158:ALA:HA	1:l:161:GLN:HB3	1.98	0.45
1:h:404:GLN:HE22	1:h:443:ASP:HB2	1.81	0.45
1:i:332:GLY:HA2	1:i:353:GLN:NE2	2.26	0.45
1:i:375:GLU:OE2	1:i:445:HIS:NE2	2.49	0.45
1:m:175:GLN:HE21	1:m:485:LYS:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:213:VAL:O	1:m:215:THR:HG23	2.16	0.45
1:n:102:HIS:HE1	1:n:104:LYS:HE3	1.81	0.45
1:n:215:THR:O	1:n:216:TRP:HD1	1.98	0.45
1:n:287:GLY:H	1:n:325:ARG:HH12	1.63	0.45
1:n:318:ASN:HA	1:n:319:PRO:HA	1.81	0.45
1:n:439:TYR:CE1	1:o:469:ALA:CB	2.87	0.45
1:o:244:PHE:C	1:o:246:PRO:HD3	2.41	0.45
1:p:101:TYR:CD2	1:p:101:TYR:O	2.70	0.45
1:p:225:ASP:HB2	1:p:226:ARG:CB	2.36	0.45
1:q:101:TYR:CD2	1:q:101:TYR:O	2.70	0.45
1:r:213:VAL:O	1:r:215:THR:HG23	2.16	0.45
1:r:215:THR:O	1:r:216:TRP:HD1	1.98	0.45
1:r:298:GLU:HA	1:r:299:GLY:HA2	1.56	0.45
1:s:381:TRP:O	1:s:381:TRP:CG	2.70	0.45
1:s:431:SER:OG	1:s:433:HIS:CD2	2.68	0.45
1:t:35:GLY:O	1:t:36:HIS:C	2.60	0.45
1:t:158:ALA:HA	1:x:161:GLN:HB3	1.98	0.45
1:v:101:TYR:CD2	1:v:101:TYR:O	2.70	0.45
1:v:213:VAL:O	1:v:215:THR:HG23	2.16	0.45
1:y:179:ASP:OD1	1:y:251:ILE:HG21	2.17	0.45
1:y:381:TRP:O	1:y:381:TRP:CG	2.70	0.45
1:z:353:GLN:NE2	1:z:404:GLN:HB3	2.32	0.45
1:z:404:GLN:HE22	1:z:443:ASP:HB2	1.81	0.45
1:7:35:GLY:O	1:7:36:HIS:C	2.60	0.45
1:7:179:ASP:OD1	1:7:251:ILE:HG21	2.17	0.45
1:7:223:GLN:HB2	1:7:229:GLN:O	2.16	0.45
1:A:175:GLN:HE21	1:A:485:LYS:HE2	1.81	0.45
1:A:414:GLN:HA	1:A:426:HIS:O	2.17	0.45
1:B:35:GLY:O	1:B:36:HIS:C	2.60	0.45
1:D:101:TYR:CD2	1:D:101:TYR:O	2.70	0.45
1:D:381:TRP:O	1:D:381:TRP:CG	2.70	0.45
1:E:101:TYR:CD2	1:E:101:TYR:O	2.70	0.45
1:F:244:PHE:C	1:F:246:PRO:HD3	2.41	0.45
1:F:355:PHE:HE1	1:F:357:GLN:NE2	2.14	0.45
1:G:101:TYR:CD2	1:G:101:TYR:O	2.70	0.45
1:H:89:GLN:NE2	1:H:229:GLN:HB2	2.29	0.45
1:I:37:SER:CB	1:J:257:ARG:CG	2.73	0.45
1:I:101:TYR:CD2	1:I:101:TYR:O	2.70	0.45
1:I:175:GLN:HE21	1:I:485:LYS:HE2	1.81	0.45
1:L:101:TYR:CD2	1:L:101:TYR:O	2.70	0.45
1:L:114:ALA:HB1	1:L:120:TRP:NE1	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:35:GLY:O	1:M:36:HIS:C	2.60	0.45
1:M:102:HIS:HE1	1:M:104:LYS:HE3	1.81	0.45
1:M:215:THR:O	1:M:216:TRP:HD1	1.98	0.45
1:N:215:THR:O	1:N:216:TRP:HD1	1.98	0.45
1:O:35:GLY:O	1:O:36:HIS:C	2.60	0.45
1:O:161:GLN:HB3	1:P:158:ALA:HA	1.98	0.45
1:P:381:TRP:O	1:P:381:TRP:CG	2.70	0.45
1:Q:102:HIS:HE1	1:Q:104:LYS:HE3	1.81	0.45
1:R:213:VAL:O	1:R:215:THR:HG23	2.16	0.45
1:T:102:HIS:HE1	1:T:104:LYS:HE3	1.81	0.45
1:T:355:PHE:HE1	1:T:357:GLN:NE2	2.14	0.45
1:U:100:SER:O	1:U:100:SER:OG	2.23	0.45
1:V:244:PHE:C	1:V:246:PRO:HD3	2.41	0.45
1:W:101:TYR:CD2	1:W:101:TYR:O	2.70	0.45
1:W:263:GLU:HA	1:W:264:SER:HA	1.76	0.45
1:X:101:TYR:CD2	1:X:101:TYR:O	2.70	0.45
1:X:244:PHE:C	1:X:246:PRO:HD3	2.41	0.45
1:X:469:ALA:HB2	1:4:439:TYR:CZ	2.50	0.45
1:Y:375:GLU:OE2	1:Y:445:HIS:NE2	2.49	0.45
1:Z:175:GLN:HE21	1:Z:485:LYS:HE2	1.81	0.45
1:Z:287:GLY:H	1:Z:325:ARG:HH12	1.63	0.45
1:2:223:GLN:HB2	1:2:229:GLN:O	2.16	0.45
1:2:404:GLN:HE22	1:2:443:ASP:HB2	1.81	0.45
1:4:213:VAL:O	1:4:215:THR:HG23	2.16	0.45
1:5:257:ARG:CG	1:t:37:SER:CB	2.73	0.45
1:5:311:TRP:CZ3	1:b:377:ALA:HB2	2.52	0.45
1:a:100:SER:O	1:a:100:SER:OG	2.23	0.45
1:b:263:GLU:HA	1:b:264:SER:HA	1.76	0.45
1:c:179:ASP:OD1	1:c:251:ILE:HG21	2.17	0.45
1:c:431:SER:OG	1:c:433:HIS:CD2	2.68	0.45
1:e:191:PHE:CD1	1:e:191:PHE:N	2.81	0.45
1:f:381:TRP:O	1:f:381:TRP:CG	2.70	0.45
1:g:101:TYR:CD2	1:g:101:TYR:O	2.70	0.45
1:h:191:PHE:N	1:h:191:PHE:CD1	2.81	0.45
1:i:244:PHE:C	1:i:246:PRO:HD3	2.41	0.45
1:i:355:PHE:HE1	1:i:357:GLN:NE2	2.14	0.45
1:j:35:GLY:O	1:j:36:HIS:C	2.60	0.45
1:j:175:GLN:HE21	1:j:485:LYS:HE2	1.81	0.45
1:k:115:ASN:C	1:k:190:ASN:HD21	2.23	0.45
1:k:223:GLN:HB2	1:k:229:GLN:O	2.16	0.45
1:k:390:MET:HA	1:k:391:ARG:HA	1.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:101:TYR:CD2	1:l:101:TYR:O	2.70	0.45
1:l:102:HIS:HE1	1:l:104:LYS:HE3	1.81	0.45
1:n:334:SER:OG	1:n:435:THR:HG23	2.16	0.45
1:n:343:SER:OG	1:n:344:THR:N	2.48	0.45
1:o:341:HIS:HE1	1:o:343:SER:HB2	1.81	0.45
1:p:102:HIS:HE1	1:p:104:LYS:HE3	1.81	0.45
1:p:334:SER:HG	1:p:435:THR:CB	2.27	0.45
1:p:341:HIS:HE1	1:p:343:SER:HB2	1.81	0.45
1:q:334:SER:HG	1:q:435:THR:CB	2.28	0.45
1:u:213:VAL:O	1:u:215:THR:HG23	2.16	0.45
1:u:470:HIS:O	1:u:470:HIS:CG	2.69	0.45
1:w:334:SER:OG	1:w:435:THR:HG23	2.16	0.45
1:w:375:GLU:OE2	1:w:445:HIS:NE2	2.50	0.45
1:x:179:ASP:OD1	1:x:251:ILE:HG21	2.17	0.45
1:x:287:GLY:H	1:x:325:ARG:HH12	1.63	0.45
1:x:341:HIS:HE1	1:x:343:SER:HB2	1.81	0.45
1:x:470:HIS:O	1:x:470:HIS:CG	2.69	0.45
1:y:191:PHE:N	1:y:191:PHE:CD1	2.81	0.45
1:y:439:TYR:CZ	1:z:469:ALA:HB2	2.50	0.45
1:B:332:GLY:HA2	1:B:353:GLN:NE2	2.26	0.45
1:C:101:TYR:CD2	1:C:101:TYR:O	2.70	0.45
1:C:245:THR:HA	1:C:246:PRO:HD2	1.50	0.45
1:C:469:ALA:CB	1:M:439:TYR:CE1	2.87	0.45
1:E:375:GLU:OE2	1:E:445:HIS:NE2	2.50	0.45
1:H:179:ASP:OD1	1:H:251:ILE:HG21	2.17	0.45
1:I:179:ASP:OD1	1:I:251:ILE:HG21	2.17	0.45
1:I:374:THR:OG1	1:I:396:GLN:O	2.34	0.45
1:J:156:THR:O	1:J:163:THR:OG1	2.25	0.45
1:L:89:GLN:NE2	1:L:229:GLN:HB2	2.28	0.45
1:M:101:TYR:CD2	1:M:101:TYR:O	2.70	0.45
1:M:213:VAL:O	1:M:215:THR:HG23	2.16	0.45
1:N:109:TRP:CZ3	1:N:485:LYS:HB2	2.48	0.45
1:O:470:HIS:O	1:O:470:HIS:CG	2.69	0.45
1:P:431:SER:OG	1:P:433:HIS:CD2	2.68	0.45
1:R:101:TYR:CD2	1:R:101:TYR:O	2.70	0.45
1:R:341:HIS:HE1	1:R:343:SER:HB2	1.81	0.45
1:S:353:GLN:NE2	1:S:404:GLN:HB3	2.32	0.45
1:S:404:GLN:HE22	1:S:443:ASP:HB2	1.81	0.45
1:T:158:ALA:HA	1:c:161:GLN:HB3	1.99	0.45
1:U:161:GLN:HB3	1:4:158:ALA:HA	1.98	0.45
1:U:213:VAL:O	1:U:215:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:334:SER:OG	1:U:435:THR:HG23	2.16	0.45
1:V:414:GLN:HA	1:V:426:HIS:O	2.17	0.45
1:W:381:TRP:O	1:W:381:TRP:CG	2.70	0.45
1:W:414:GLN:HA	1:W:426:HIS:O	2.17	0.45
1:X:75:ARG:HD2	1:5:549:ALA:O	2.17	0.45
1:X:414:GLN:HA	1:X:426:HIS:O	2.17	0.45
1:Y:523:ARG:NH2	1:Y:563:MET:HE3	2.30	0.45
1:Z:375:GLU:OE2	1:Z:445:HIS:NE2	2.50	0.45
1:0:414:GLN:HA	1:0:426:HIS:O	2.17	0.45
1:1:96:THR:HG21	1:1:221:ILE:CG1	2.43	0.45
1:2:129:LEU:HD12	1:2:133:CYS:SG	2.57	0.45
1:2:158:ALA:HA	1:m:161:GLN:HB3	1.98	0.45
1:3:404:GLN:HE22	1:3:443:ASP:HB2	1.81	0.45
1:5:192:TYR:HD1	1:a:308:ILE:HG21	1.82	0.45
1:5:213:VAL:O	1:5:215:THR:HG23	2.16	0.45
1:b:223:GLN:HB2	1:b:229:GLN:O	2.16	0.45
1:b:375:GLU:OE2	1:b:445:HIS:NE2	2.49	0.45
1:c:134:ARG:O	1:c:276:LEU:N	2.32	0.45
1:d:101:TYR:CD2	1:d:101:TYR:O	2.70	0.45
1:d:470:HIS:O	1:d:470:HIS:CG	2.69	0.45
1:e:245:THR:HA	1:e:246:PRO:HD2	1.50	0.45
1:f:129:LEU:HD12	1:f:133:CYS:SG	2.57	0.45
1:g:381:TRP:O	1:g:381:TRP:CG	2.70	0.45
1:h:175:GLN:HE21	1:h:485:LYS:HE2	1.81	0.45
1:j:101:TYR:CD2	1:j:101:TYR:O	2.70	0.45
1:k:35:GLY:O	1:k:36:HIS:C	2.60	0.45
1:k:161:GLN:HB3	1:s:158:ALA:HA	1.98	0.45
1:k:179:ASP:OD1	1:k:251:ILE:HG21	2.17	0.45
1:l:179:ASP:OD1	1:l:251:ILE:HG21	2.17	0.45
1:l:381:TRP:CG	1:l:381:TRP:O	2.70	0.45
1:m:353:GLN:NE2	1:m:404:GLN:HB3	2.32	0.45
1:n:101:TYR:CD2	1:n:101:TYR:O	2.70	0.45
1:n:353:GLN:NE2	1:n:404:GLN:HB3	2.32	0.45
1:o:414:GLN:HA	1:o:426:HIS:O	2.17	0.45
1:p:375:GLU:OE2	1:p:445:HIS:NE2	2.50	0.45
1:q:341:HIS:HE1	1:q:343:SER:HB2	1.81	0.45
1:q:381:TRP:O	1:q:381:TRP:CG	2.70	0.45
1:q:439:TYR:CZ	1:r:469:ALA:HB2	2.50	0.45
1:r:386:ASP:H	1:r:387:GLN:HA	1.79	0.45
1:s:245:THR:HA	1:s:246:PRO:HD2	1.50	0.45
1:t:101:TYR:CD2	1:t:101:TYR:O	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:179:ASP:OD1	1:t:251:ILE:HG21	2.17	0.45
1:t:414:GLN:HA	1:t:426:HIS:O	2.17	0.45
1:u:175:GLN:HE21	1:u:485:LYS:HE2	1.81	0.45
1:u:414:GLN:HA	1:u:426:HIS:O	2.17	0.45
1:v:244:PHE:HE2	1:v:246:PRO:HB3	1.63	0.45
1:w:101:TYR:CD2	1:w:101:TYR:O	2.70	0.45
1:x:89:GLN:NE2	1:x:229:GLN:HB2	2.29	0.45
1:y:334:SER:OG	1:y:435:THR:HG23	2.16	0.45
1:y:431:SER:OG	1:y:433:HIS:CD2	2.68	0.45
1:7:244:PHE:C	1:7:246:PRO:HD3	2.41	0.45
1:7:245:THR:HA	1:7:246:PRO:HD2	1.50	0.45
1:7:414:GLN:HA	1:7:426:HIS:O	2.17	0.45
1:A:213:VAL:O	1:A:215:THR:HG23	2.16	0.44
1:B:225:ASP:HB2	1:B:226:ARG:CB	2.36	0.44
1:B:414:GLN:HA	1:B:426:HIS:O	2.17	0.44
1:C:469:ALA:HB2	1:M:439:TYR:CZ	2.50	0.44
1:D:35:GLY:O	1:D:36:HIS:C	2.60	0.44
1:E:35:GLY:O	1:E:36:HIS:C	2.60	0.44
1:E:102:HIS:HE1	1:E:104:LYS:HE3	1.81	0.44
1:F:390:MET:HA	1:F:391:ARG:HA	1.72	0.44
1:F:404:GLN:HE22	1:F:443:ASP:HB2	1.81	0.44
1:G:129:LEU:HD12	1:G:133:CYS:SG	2.57	0.44
1:G:470:HIS:O	1:G:470:HIS:CG	2.69	0.44
1:H:287:GLY:H	1:H:325:ARG:HH12	1.63	0.44
1:H:341:HIS:HE1	1:H:343:SER:HB2	1.81	0.44
1:H:431:SER:OG	1:H:433:HIS:CD2	2.68	0.44
1:I:213:VAL:O	1:I:215:THR:HG23	2.16	0.44
1:I:414:GLN:HA	1:I:426:HIS:O	2.17	0.44
1:I:470:HIS:O	1:I:470:HIS:CG	2.69	0.44
1:J:213:VAL:O	1:J:215:THR:HG23	2.16	0.44
1:L:179:ASP:OD1	1:L:251:ILE:HG21	2.17	0.44
1:L:223:GLN:HB2	1:L:229:GLN:O	2.16	0.44
1:L:375:GLU:OE2	1:L:445:HIS:NE2	2.50	0.44
1:M:100:SER:O	1:M:100:SER:OG	2.23	0.44
1:M:470:HIS:O	1:M:470:HIS:CG	2.69	0.44
1:N:386:ASP:H	1:N:387:GLN:HA	1.79	0.44
1:O:175:GLN:HE21	1:O:485:LYS:HE2	1.81	0.44
1:O:179:ASP:OD1	1:O:251:ILE:HG21	2.17	0.44
1:O:414:GLN:HA	1:O:426:HIS:O	2.17	0.44
1:Q:101:TYR:CD2	1:Q:101:TYR:O	2.70	0.44
1:Q:343:SER:OG	1:Q:344:THR:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:334:SER:OG	1:R:435:THR:HG23	2.16	0.44
1:T:334:SER:OG	1:T:435:THR:HG23	2.16	0.44
1:V:101:TYR:CD2	1:V:101:TYR:O	2.70	0.44
1:V:284:ARG:HD2	1:4:346:GLY:CA	2.44	0.44
1:W:375:GLU:OE2	1:W:445:HIS:NE2	2.50	0.44
1:Z:129:LEU:HD12	1:Z:133:CYS:SG	2.58	0.44
1:0:213:VAL:O	1:0:215:THR:HG23	2.16	0.44
1:1:179:ASP:OD1	1:1:251:ILE:HG21	2.17	0.44
1:2:35:GLY:O	1:2:36:HIS:C	2.60	0.44
1:2:175:GLN:HE21	1:2:485:LYS:HE2	1.81	0.44
1:3:101:TYR:CD2	1:3:101:TYR:O	2.70	0.44
1:4:134:ARG:O	1:4:276:LEU:N	2.32	0.44
1:a:257:ARG:N	1:e:37:SER:HG	2.10	0.44
1:a:263:GLU:HA	1:a:264:SER:HA	1.75	0.44
1:a:414:GLN:HA	1:a:426:HIS:O	2.17	0.44
1:b:179:ASP:OD1	1:b:251:ILE:HG21	2.17	0.44
1:d:213:VAL:O	1:d:215:THR:HG23	2.16	0.44
1:d:414:GLN:HA	1:d:426:HIS:O	2.17	0.44
1:e:101:TYR:CD2	1:e:101:TYR:O	2.70	0.44
1:g:129:LEU:HD12	1:g:133:CYS:SG	2.58	0.44
1:g:179:ASP:OD1	1:g:251:ILE:HG21	2.17	0.44
1:i:334:SER:OG	1:i:435:THR:HG23	2.16	0.44
1:j:414:GLN:HA	1:j:426:HIS:O	2.17	0.44
1:k:470:HIS:O	1:k:470:HIS:CG	2.69	0.44
1:l:175:GLN:HE21	1:l:485:LYS:HE2	1.81	0.44
1:n:284:ARG:HD2	1:o:346:GLY:CA	2.44	0.44
1:o:404:GLN:HE22	1:o:443:ASP:HB2	1.81	0.44
1:p:35:GLY:O	1:p:36:HIS:C	2.60	0.44
1:q:35:GLY:O	1:q:36:HIS:C	2.60	0.44
1:q:244:PHE:C	1:q:246:PRO:HD3	2.41	0.44
1:s:191:PHE:N	1:s:191:PHE:CD1	2.81	0.44
1:s:386:ASP:H	1:s:387:GLN:HA	1.79	0.44
1:s:470:HIS:O	1:s:470:HIS:CG	2.69	0.44
1:t:129:LEU:HD12	1:t:133:CYS:SG	2.57	0.44
1:t:175:GLN:HE21	1:t:485:LYS:HE2	1.81	0.44
1:t:353:GLN:NE2	1:t:404:GLN:HB3	2.32	0.44
1:t:374:THR:OG1	1:t:396:GLN:O	2.34	0.44
1:t:470:HIS:O	1:t:470:HIS:CG	2.69	0.44
1:v:381:TRP:O	1:v:381:TRP:CG	2.70	0.44
1:v:470:HIS:O	1:v:470:HIS:CG	2.69	0.44
1:w:263:GLU:HA	1:w:264:SER:HA	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:381:TRP:O	1:w:381:TRP:CG	2.70	0.44
1:w:414:GLN:HA	1:w:426:HIS:O	2.17	0.44
1:x:244:PHE:C	1:x:246:PRO:HD3	2.41	0.44
1:x:298:GLU:HA	1:x:299:GLY:HA2	1.56	0.44
1:y:101:TYR:CD2	1:y:101:TYR:O	2.70	0.44
1:y:213:VAL:O	1:y:215:THR:HG23	2.16	0.44
1:y:439:TYR:CE1	1:z:469:ALA:CB	2.87	0.44
1:z:101:TYR:CD2	1:z:101:TYR:O	2.70	0.44
1:6:156:THR:O	1:6:163:THR:OG1	2.25	0.44
1:6:334:SER:OG	1:6:435:THR:HG23	2.16	0.44
1:7:101:TYR:CD2	1:7:101:TYR:O	2.70	0.44
1:A:179:ASP:OD1	1:A:251:ILE:HG21	2.17	0.44
1:A:381:TRP:O	1:A:381:TRP:CG	2.70	0.44
1:C:129:LEU:HD12	1:C:133:CYS:SG	2.58	0.44
1:C:379:TYR:CD2	1:C:392:GLU:HG3	2.44	0.44
1:D:102:HIS:HE1	1:D:104:LYS:HE3	1.81	0.44
1:D:146:GLU:HA	1:D:147:ASN:HA	1.79	0.44
1:D:341:HIS:HE1	1:D:343:SER:HB2	1.81	0.44
1:D:404:GLN:HE22	1:D:443:ASP:HB2	1.81	0.44
1:E:308:ILE:HG21	1:Q:192:TYR:HD1	1.83	0.44
1:F:414:GLN:HA	1:F:426:HIS:O	2.17	0.44
1:G:381:TRP:O	1:G:381:TRP:CG	2.70	0.44
1:H:470:HIS:O	1:H:470:HIS:CG	2.69	0.44
1:I:129:LEU:HD12	1:I:133:CYS:SG	2.58	0.44
1:I:341:HIS:HE1	1:I:343:SER:HB2	1.81	0.44
1:I:353:GLN:NE2	1:I:404:GLN:HB3	2.32	0.44
1:J:183:LEU:HB3	1:J:250:MET:SD	2.58	0.44
1:J:470:HIS:O	1:J:470:HIS:CG	2.69	0.44
1:K:346:GLY:CA	1:7:284:ARG:HD2	2.44	0.44
1:L:374:THR:OG1	1:L:396:GLN:O	2.34	0.44
1:N:101:TYR:CD2	1:N:101:TYR:O	2.70	0.44
1:N:223:GLN:HB2	1:N:229:GLN:O	2.16	0.44
1:O:100:SER:O	1:O:100:SER:OG	2.23	0.44
1:O:375:GLU:OE2	1:O:445:HIS:NE2	2.50	0.44
1:P:470:HIS:O	1:P:470:HIS:CG	2.69	0.44
1:Q:353:GLN:NE2	1:Q:404:GLN:HB3	2.32	0.44
1:R:183:LEU:HB3	1:R:250:MET:SD	2.58	0.44
1:S:101:TYR:CD2	1:S:101:TYR:O	2.70	0.44
1:S:414:GLN:HA	1:S:426:HIS:O	2.17	0.44
1:T:244:PHE:C	1:T:246:PRO:HD3	2.41	0.44
1:U:334:SER:HG	1:U:435:THR:CB	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:129:LEU:HD12	1:W:133:CYS:SG	2.58	0.44
1:X:129:LEU:HD12	1:X:133:CYS:SG	2.58	0.44
1:X:179:ASP:OD1	1:X:251:ILE:HG21	2.17	0.44
1:Y:129:LEU:HD12	1:Y:133:CYS:SG	2.58	0.44
1:Y:287:GLY:H	1:Y:325:ARG:HH12	1.63	0.44
1:Z:59:HIS:HE1	1:Z:515:LYS:HZ1	1.65	0.44
1:Z:66:ILE:O	1:Z:508:GLY:N	2.48	0.44
1:Z:257:ARG:N	1:0:37:SER:HG	2.10	0.44
1:0:129:LEU:HD12	1:0:133:CYS:SG	2.58	0.44
1:0:223:GLN:HB2	1:0:229:GLN:O	2.16	0.44
1:0:470:HIS:O	1:0:470:HIS:CG	2.69	0.44
1:2:470:HIS:CG	1:2:470:HIS:O	2.69	0.44
1:3:244:PHE:C	1:3:246:PRO:HD3	2.41	0.44
1:3:414:GLN:HA	1:3:426:HIS:O	2.17	0.44
1:5:470:HIS:O	1:5:470:HIS:CG	2.69	0.44
1:a:332:GLY:HA2	1:a:353:GLN:NE2	2.26	0.44
1:f:35:GLY:O	1:f:36:HIS:C	2.60	0.44
1:f:179:ASP:OD1	1:f:251:ILE:HG21	2.17	0.44
1:f:245:THR:HA	1:f:246:PRO:HD2	1.50	0.44
1:g:102:HIS:HE1	1:g:104:LYS:HE3	1.81	0.44
1:g:223:GLN:HB2	1:g:229:GLN:O	2.16	0.44
1:g:334:SER:HG	1:g:435:THR:CB	2.27	0.44
1:h:223:GLN:HB2	1:h:229:GLN:O	2.16	0.44
1:j:183:LEU:HB3	1:j:250:MET:SD	2.58	0.44
1:k:375:GLU:OE2	1:k:445:HIS:NE2	2.50	0.44
1:k:414:GLN:HA	1:k:426:HIS:O	2.17	0.44
1:l:129:LEU:HD12	1:l:133:CYS:SG	2.58	0.44
1:l:439:TYR:CZ	1:m:469:ALA:HB2	2.50	0.44
1:m:223:GLN:HB2	1:m:229:GLN:O	2.16	0.44
1:n:381:TRP:O	1:n:381:TRP:CG	2.70	0.44
1:o:355:PHE:HE1	1:o:357:GLN:NE2	2.14	0.44
1:p:33:GLY:C	1:p:36:HIS:HD2	2.17	0.44
1:p:223:GLN:HB2	1:p:229:GLN:O	2.16	0.44
1:q:102:HIS:HE1	1:q:104:LYS:HE3	1.81	0.44
1:r:101:TYR:CD2	1:r:101:TYR:O	2.70	0.44
1:r:223:GLN:HB2	1:r:229:GLN:O	2.16	0.44
1:r:245:THR:HA	1:r:246:PRO:HD2	1.50	0.44
1:s:414:GLN:HA	1:s:426:HIS:O	2.17	0.44
1:t:213:VAL:O	1:t:215:THR:HG23	2.16	0.44
1:u:381:TRP:O	1:u:381:TRP:CG	2.70	0.44
1:v:129:LEU:HD12	1:v:133:CYS:SG	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:35:GLY:O	1:x:36:HIS:C	2.60	0.44
1:y:341:HIS:HE1	1:y:343:SER:HB2	1.81	0.44
1:6:100:SER:O	1:6:100:SER:OG	2.23	0.44
1:6:213:VAL:O	1:6:215:THR:HG23	2.16	0.44
1:B:100:SER:O	1:B:100:SER:OG	2.23	0.44
1:B:257:ARG:N	1:C:37:SER:HG	2.10	0.44
1:C:183:LEU:HB3	1:C:250:MET:SD	2.58	0.44
1:E:223:GLN:HB2	1:E:229:GLN:O	2.16	0.44
1:E:349:ILE:CD1	1:F:324:THR:HG22	2.48	0.44
1:E:414:GLN:HA	1:E:426:HIS:O	2.17	0.44
1:E:470:HIS:O	1:E:470:HIS:CG	2.69	0.44
1:F:346:GLY:CA	1:Q:284:ARG:HD2	2.44	0.44
1:H:35:GLY:O	1:H:36:HIS:C	2.60	0.44
1:I:245:THR:HA	1:I:246:PRO:HD2	1.50	0.44
1:O:102:HIS:HE1	1:O:104:LYS:HE3	1.81	0.44
1:O:390:MET:HA	1:O:391:ARG:HA	1.72	0.44
1:P:139:SER:O	1:P:269:PHE:N	2.45	0.44
1:P:191:PHE:N	1:P:191:PHE:CD1	2.81	0.44
1:P:414:GLN:HA	1:P:426:HIS:O	2.17	0.44
1:Q:183:LEU:HB3	1:Q:250:MET:SD	2.58	0.44
1:Q:381:TRP:O	1:Q:381:TRP:CG	2.70	0.44
1:Q:404:GLN:HE22	1:Q:443:ASP:HB2	1.81	0.44
1:Q:414:GLN:HA	1:Q:426:HIS:O	2.17	0.44
1:T:179:ASP:OD1	1:T:251:ILE:HG21	2.17	0.44
1:U:156:THR:O	1:U:163:THR:OG1	2.25	0.44
1:W:183:LEU:HB3	1:W:250:MET:SD	2.58	0.44
1:X:35:GLY:O	1:X:36:HIS:C	2.60	0.44
1:X:213:VAL:O	1:X:215:THR:HG23	2.16	0.44
1:X:470:HIS:O	1:X:470:HIS:CG	2.69	0.44
1:Y:179:ASP:OD1	1:Y:251:ILE:HG21	2.17	0.44
1:0:179:ASP:OD1	1:0:251:ILE:HG21	2.17	0.44
1:2:179:ASP:OD1	1:2:251:ILE:HG21	2.17	0.44
1:5:183:LEU:HB3	1:5:250:MET:SD	2.58	0.44
1:a:66:ILE:O	1:a:508:GLY:N	2.48	0.44
1:b:89:GLN:NE2	1:b:229:GLN:HB2	2.29	0.44
1:b:374:THR:OG1	1:b:396:GLN:O	2.34	0.44
1:b:414:GLN:HA	1:b:426:HIS:O	2.17	0.44
1:c:213:VAL:O	1:c:215:THR:HG23	2.16	0.44
1:c:349:ILE:CD1	1:e:324:THR:HG22	2.48	0.44
1:d:100:SER:O	1:d:100:SER:OG	2.23	0.44
1:d:129:LEU:HD12	1:d:133:CYS:SG	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:179:ASP:OD1	1:e:251:ILE:HG21	2.17	0.44
1:e:183:LEU:HB3	1:e:250:MET:SD	2.58	0.44
1:e:390:MET:HA	1:e:391:ARG:HA	1.72	0.44
1:f:470:HIS:O	1:f:470:HIS:CG	2.69	0.44
1:g:35:GLY:O	1:g:36:HIS:C	2.60	0.44
1:g:439:TYR:CZ	1:h:469:ALA:HB2	2.50	0.44
1:h:129:LEU:HD12	1:h:133:CYS:SG	2.58	0.44
1:h:183:LEU:HB3	1:h:250:MET:SD	2.58	0.44
1:h:357:GLN:CB	1:h:362:SER:HB3	2.48	0.44
1:k:175:GLN:HE21	1:k:485:LYS:HE2	1.81	0.44
1:m:129:LEU:HD12	1:m:133:CYS:SG	2.58	0.44
1:n:183:LEU:HB3	1:n:250:MET:SD	2.58	0.44
1:n:404:GLN:HE22	1:n:443:ASP:HB2	1.81	0.44
1:o:257:ARG:CG	1:y:37:SER:HG	1.98	0.44
1:o:390:MET:HA	1:o:391:ARG:HA	1.72	0.44
1:p:470:HIS:O	1:p:470:HIS:CG	2.69	0.44
1:s:35:GLY:O	1:s:36:HIS:C	2.60	0.44
1:w:129:LEU:HD12	1:w:133:CYS:SG	2.58	0.44
1:w:183:LEU:HB3	1:w:250:MET:SD	2.58	0.44
1:w:192:TYR:HD1	1:x:308:ILE:HG21	1.83	0.44
1:w:334:SER:N	1:w:435:THR:OG1	2.51	0.44
1:w:346:GLY:CA	1:x:284:ARG:HD2	2.44	0.44
1:x:431:SER:OG	1:x:433:HIS:CD2	2.68	0.44
1:y:183:LEU:HB3	1:y:250:MET:SD	2.58	0.44
1:z:414:GLN:HA	1:z:426:HIS:O	2.17	0.44
1:6:175:GLN:HE21	1:6:485:LYS:HE2	1.81	0.44
1:6:334:SER:HG	1:6:435:THR:CB	2.25	0.44
1:A:324:THR:HG22	1:G:349:ILE:CD1	2.47	0.44
1:B:66:ILE:O	1:B:508:GLY:N	2.48	0.44
1:C:324:THR:HG22	1:1:349:ILE:CD1	2.48	0.44
1:D:109:TRP:HZ3	1:D:485:LYS:CB	2.27	0.44
1:G:179:ASP:OD1	1:G:251:ILE:HG21	2.17	0.44
1:H:244:PHE:C	1:H:246:PRO:HD3	2.41	0.44
1:K:129:LEU:HD12	1:K:133:CYS:SG	2.58	0.44
1:L:334:SER:N	1:L:435:THR:OG1	2.51	0.44
1:L:414:GLN:HA	1:L:426:HIS:O	2.17	0.44
1:M:129:LEU:HD12	1:M:133:CYS:SG	2.58	0.44
1:N:139:SER:O	1:N:269:PHE:N	2.45	0.44
1:N:179:ASP:OD1	1:N:251:ILE:HG21	2.17	0.44
1:P:35:GLY:O	1:P:36:HIS:C	2.60	0.44
1:P:179:ASP:OD1	1:P:251:ILE:HG21	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:334:SER:N	1:P:435:THR:OG1	2.51	0.44
1:R:139:SER:O	1:R:269:PHE:N	2.45	0.44
1:S:37:SER:CB	1:3:257:ARG:CG	2.73	0.44
1:T:89:GLN:NE2	1:T:229:GLN:HB2	2.28	0.44
1:T:129:LEU:HD12	1:T:133:CYS:SG	2.58	0.44
1:T:431:SER:OG	1:T:433:HIS:CD2	2.68	0.44
1:U:175:GLN:HE21	1:U:485:LYS:HE2	1.81	0.44
1:U:183:LEU:HB3	1:U:250:MET:SD	2.58	0.44
1:V:353:GLN:NE2	1:V:404:GLN:HB3	2.32	0.44
1:W:334:SER:N	1:W:435:THR:OG1	2.51	0.44
1:X:223:GLN:HB2	1:X:229:GLN:O	2.16	0.44
1:X:245:THR:HA	1:X:246:PRO:HD2	1.50	0.44
1:Y:66:ILE:O	1:Y:508:GLY:N	2.48	0.44
1:Z:179:ASP:OD1	1:Z:251:ILE:HG21	2.17	0.44
1:0:35:GLY:O	1:0:36:HIS:C	2.60	0.44
1:1:213:VAL:O	1:1:215:THR:HG23	2.16	0.44
1:3:129:LEU:HD12	1:3:133:CYS:SG	2.58	0.44
1:3:183:LEU:HB3	1:3:250:MET:SD	2.58	0.44
1:3:223:GLN:HB2	1:3:229:GLN:O	2.16	0.44
1:4:129:LEU:HD12	1:4:133:CYS:SG	2.58	0.44
1:4:146:GLU:HA	1:4:147:ASN:HA	1.79	0.44
1:4:183:LEU:HB3	1:4:250:MET:SD	2.58	0.44
1:5:156:THR:O	1:5:163:THR:OG1	2.25	0.44
1:a:129:LEU:HD12	1:a:133:CYS:SG	2.57	0.44
1:a:158:ALA:HA	1:e:161:GLN:HB3	1.98	0.44
1:a:192:TYR:CD1	1:b:310:CYS:HB3	2.52	0.44
1:b:334:SER:N	1:b:435:THR:OG1	2.51	0.44
1:c:101:TYR:CD2	1:c:101:TYR:O	2.70	0.44
1:d:439:TYR:CZ	1:e:469:ALA:HB2	2.50	0.44
1:e:129:LEU:HD12	1:e:133:CYS:SG	2.58	0.44
1:e:175:GLN:HE21	1:e:485:LYS:HE2	1.81	0.44
1:g:183:LEU:HB3	1:g:250:MET:SD	2.58	0.44
1:g:324:THR:HG22	1:h:349:ILE:CD1	2.48	0.44
1:g:414:GLN:HA	1:g:426:HIS:O	2.17	0.44
1:i:129:LEU:HD12	1:i:133:CYS:SG	2.58	0.44
1:j:129:LEU:HD12	1:j:133:CYS:SG	2.58	0.44
1:j:223:GLN:HB2	1:j:229:GLN:O	2.16	0.44
1:k:102:HIS:HE1	1:k:104:LYS:HE3	1.81	0.44
1:l:35:GLY:O	1:l:36:HIS:C	2.60	0.44
1:l:324:THR:HG22	1:m:349:ILE:CD1	2.48	0.44
1:l:414:GLN:HA	1:l:426:HIS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:35:GLY:O	1:m:36:HIS:C	2.60	0.44
1:m:183:LEU:HB3	1:m:250:MET:SD	2.58	0.44
1:m:357:GLN:CB	1:m:362:SER:HB3	2.48	0.44
1:n:192:TYR:HD1	1:p:308:ILE:HG21	1.83	0.44
1:p:257:ARG:HG2	1:u:37:SER:CA	2.32	0.44
1:p:374:THR:OG1	1:p:396:GLN:O	2.34	0.44
1:p:414:GLN:HA	1:p:426:HIS:O	2.17	0.44
1:q:109:TRP:HZ3	1:q:485:LYS:CB	2.27	0.44
1:r:179:ASP:OD1	1:r:251:ILE:HG21	2.17	0.44
1:s:101:TYR:CD2	1:s:101:TYR:O	2.70	0.44
1:t:341:HIS:HE1	1:t:343:SER:HB2	1.81	0.44
1:u:35:GLY:O	1:u:36:HIS:C	2.60	0.44
1:u:179:ASP:OD1	1:u:251:ILE:HG21	2.17	0.44
1:v:37:SER:HG	1:w:257:ARG:N	2.10	0.44
1:x:183:LEU:HB3	1:x:250:MET:SD	2.58	0.44
1:x:353:GLN:NE2	1:x:404:GLN:HB3	2.32	0.44
1:6:183:LEU:HB3	1:6:250:MET:SD	2.58	0.44
1:7:353:GLN:NE2	1:7:404:GLN:HB3	2.32	0.44
1:A:101:TYR:CD2	1:A:101:TYR:O	2.70	0.44
1:A:349:ILE:CD1	1:I:324:THR:HG22	2.48	0.44
1:B:341:HIS:HE1	1:B:343:SER:HB2	1.81	0.44
1:C:175:GLN:HE21	1:C:485:LYS:HE2	1.81	0.44
1:C:179:ASP:OD1	1:C:251:ILE:HG21	2.17	0.44
1:E:89:GLN:NE2	1:E:229:GLN:HB2	2.28	0.44
1:G:183:LEU:HB3	1:G:250:MET:SD	2.58	0.44
1:H:183:LEU:HB3	1:H:250:MET:SD	2.58	0.44
1:H:308:ILE:HG21	1:W:192:TYR:HD1	1.83	0.44
1:H:414:GLN:HA	1:H:426:HIS:O	2.17	0.44
1:I:37:SER:HG	1:J:257:ARG:N	2.09	0.44
1:J:89:GLN:NE2	1:J:229:GLN:HB2	2.29	0.44
1:J:404:GLN:HE22	1:J:443:ASP:HB2	1.81	0.44
1:K:183:LEU:HB3	1:K:250:MET:SD	2.58	0.44
1:M:183:LEU:HB3	1:M:250:MET:SD	2.58	0.44
1:P:101:TYR:CD2	1:P:101:TYR:O	2.70	0.44
1:P:245:THR:HA	1:P:246:PRO:HD2	1.50	0.44
1:P:386:ASP:H	1:P:387:GLN:HA	1.79	0.44
1:R:129:LEU:HD12	1:R:133:CYS:SG	2.58	0.44
1:R:192:TYR:HD1	1:U:308:ILE:HG21	1.83	0.44
1:R:244:PHE:C	1:R:246:PRO:HD3	2.41	0.44
1:S:33:GLY:C	1:S:36:HIS:HD2	2.17	0.44
1:S:324:THR:HG22	1:U:349:ILE:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:549:ALA:O	1:3:75:ARG:HD2	2.18	0.44
1:V:183:LEU:HB3	1:V:250:MET:SD	2.58	0.44
1:V:349:ILE:CD1	1:X:324:THR:HG22	2.48	0.44
1:W:59:HIS:HE1	1:W:515:LYS:HZ1	1.65	0.44
1:W:523:ARG:O	1:W:523:ARG:HG3	2.18	0.44
1:X:183:LEU:HB3	1:X:250:MET:SD	2.58	0.44
1:Y:343:SER:OG	1:Y:344:THR:N	2.48	0.44
1:Z:192:TYR:HD1	1:w:308:ILE:HG21	1.83	0.44
1:Z:334:SER:N	1:Z:435:THR:OG1	2.51	0.44
1:0:183:LEU:HB3	1:0:250:MET:SD	2.58	0.44
1:1:101:TYR:CD2	1:1:101:TYR:O	2.70	0.44
1:2:414:GLN:HA	1:2:426:HIS:O	2.17	0.44
1:4:35:GLY:O	1:4:36:HIS:C	2.60	0.44
1:a:37:SER:HG	1:u:257:ARG:N	2.10	0.44
1:f:414:GLN:HA	1:f:426:HIS:O	2.17	0.44
1:h:334:SER:OG	1:h:435:THR:HG23	2.16	0.44
1:j:75:ARG:HD2	1:z:549:ALA:O	2.18	0.44
1:j:244:PHE:C	1:j:246:PRO:HD3	2.41	0.44
1:j:257:ARG:CG	1:z:37:SER:CB	2.73	0.44
1:k:101:TYR:CD2	1:k:101:TYR:O	2.70	0.44
1:l:223:GLN:HB2	1:l:229:GLN:O	2.16	0.44
1:n:263:GLU:HA	1:n:264:SER:HA	1.75	0.44
1:n:308:ILE:HG21	1:o:192:TYR:HD1	1.83	0.44
1:o:101:TYR:CD2	1:o:101:TYR:O	2.70	0.44
1:o:324:THR:HG22	1:p:349:ILE:CD1	2.48	0.44
1:p:66:ILE:O	1:p:508:GLY:N	2.48	0.44
1:p:404:GLN:HE22	1:p:443:ASP:HB2	1.81	0.44
1:q:349:ILE:CD1	1:s:324:THR:HG22	2.48	0.44
1:q:404:GLN:HE22	1:q:443:ASP:HB2	1.81	0.44
1:s:139:SER:O	1:s:269:PHE:N	2.45	0.44
1:s:179:ASP:OD1	1:s:251:ILE:HG21	2.17	0.44
1:t:139:SER:O	1:t:269:PHE:N	2.45	0.44
1:v:66:ILE:O	1:v:508:GLY:N	2.48	0.44
1:v:179:ASP:OD1	1:v:251:ILE:HG21	2.17	0.44
1:v:183:LEU:HB3	1:v:250:MET:SD	2.58	0.44
1:x:414:GLN:HA	1:x:426:HIS:O	2.17	0.44
1:y:35:GLY:O	1:y:36:HIS:C	2.60	0.44
1:y:129:LEU:HD12	1:y:133:CYS:SG	2.58	0.44
1:y:324:THR:HG22	1:z:349:ILE:CD1	2.48	0.44
1:z:324:THR:HG22	1:6:349:ILE:CD1	2.48	0.44
1:7:431:SER:OG	1:7:433:HIS:CD2	2.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:GLY:O	1:A:36:HIS:C	2.60	0.44
1:B:129:LEU:HD12	1:B:133:CYS:SG	2.58	0.44
1:B:263:GLU:HA	1:B:264:SER:HA	1.76	0.44
1:C:381:TRP:O	1:C:381:TRP:CG	2.70	0.44
1:D:349:ILE:CD1	1:P:324:THR:HG22	2.48	0.44
1:D:353:GLN:NE2	1:D:404:GLN:HB3	2.32	0.44
1:E:66:ILE:O	1:E:508:GLY:N	2.48	0.44
1:E:175:GLN:HE21	1:E:485:LYS:HE2	1.81	0.44
1:E:374:THR:OG1	1:E:396:GLN:O	2.34	0.44
1:E:381:TRP:CG	1:E:381:TRP:O	2.70	0.44
1:G:298:GLU:HA	1:G:299:GLY:HA2	1.56	0.44
1:H:284:ARG:HD2	1:W:346:GLY:CA	2.44	0.44
1:H:349:ILE:CD1	1:Y:324:THR:HG22	2.48	0.44
1:H:353:GLN:NE2	1:H:404:GLN:HB3	2.32	0.44
1:K:134:ARG:O	1:K:276:LEU:N	2.32	0.44
1:K:146:GLU:HA	1:K:147:ASN:HA	1.78	0.44
1:K:469:ALA:HB2	1:7:439:TYR:CZ	2.50	0.44
1:L:263:GLU:HA	1:L:264:SER:HA	1.76	0.44
1:L:460:ASP:OD1	1:L:460:ASP:N	2.50	0.44
1:L:470:HIS:O	1:L:470:HIS:CG	2.69	0.44
1:M:161:GLN:HB3	1:N:158:ALA:HA	1.98	0.44
1:M:349:ILE:CD1	1:1:324:THR:HG22	2.48	0.44
1:M:381:TRP:CG	1:M:381:TRP:O	2.70	0.44
1:M:390:MET:HA	1:M:391:ARG:HA	1.72	0.44
1:N:89:GLN:NE2	1:N:229:GLN:HB2	2.28	0.44
1:O:101:TYR:CD2	1:O:101:TYR:O	2.70	0.44
1:P:109:TRP:HZ3	1:P:485:LYS:CB	2.27	0.44
1:Q:263:GLU:HA	1:Q:264:SER:HA	1.76	0.44
1:R:414:GLN:HA	1:R:426:HIS:O	2.17	0.44
1:S:102:HIS:HE1	1:S:104:LYS:HE3	1.81	0.44
1:V:308:ILE:HG21	1:4:192:TYR:HD1	1.83	0.44
1:V:431:SER:OG	1:V:433:HIS:CD2	2.68	0.44
1:V:470:HIS:O	1:V:470:HIS:CG	2.69	0.44
1:W:308:ILE:HG21	1:Y:192:TYR:HD1	1.83	0.44
1:X:390:MET:HA	1:X:391:ARG:HA	1.72	0.44
1:Y:334:SER:N	1:Y:435:THR:OG1	2.51	0.44
1:Z:324:THR:HG22	1:x:349:ILE:CD1	2.48	0.44
1:Z:343:SER:OG	1:Z:344:THR:N	2.48	0.44
1:0:324:THR:HG22	1:7:349:ILE:CD1	2.48	0.44
1:0:381:TRP:O	1:0:381:TRP:CG	2.70	0.44
1:1:381:TRP:O	1:1:381:TRP:CG	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:192:TYR:HD1	1:j:308:ILE:HG21	1.83	0.44
1:3:308:ILE:HG21	1:f:192:TYR:HD1	1.83	0.44
1:4:102:HIS:HE1	1:4:104:LYS:HE3	1.81	0.44
1:5:311:TRP:CE3	1:b:377:ALA:HB2	2.53	0.44
1:a:341:HIS:HE1	1:a:343:SER:HB2	1.81	0.44
1:a:346:GLY:CA	1:b:284:ARG:HD2	2.46	0.44
1:a:381:TRP:O	1:a:381:TRP:CG	2.70	0.44
1:b:460:ASP:OD1	1:b:460:ASP:N	2.50	0.44
1:c:192:TYR:HD1	1:e:308:ILE:HG21	1.83	0.44
1:c:324:THR:HG22	1:d:349:ILE:CD1	2.48	0.44
1:c:381:TRP:O	1:c:381:TRP:CG	2.70	0.44
1:d:183:LEU:HB3	1:d:250:MET:SD	2.58	0.44
1:d:381:TRP:CG	1:d:381:TRP:O	2.70	0.44
1:d:439:TYR:CE1	1:e:469:ALA:CB	2.87	0.44
1:e:379:TYR:CD2	1:e:392:GLU:HG3	2.44	0.44
1:f:390:MET:HA	1:f:391:ARG:HA	1.72	0.44
1:i:89:GLN:NE2	1:i:229:GLN:HB2	2.28	0.44
1:i:179:ASP:OD1	1:i:251:ILE:HG21	2.17	0.44
1:i:183:LEU:HB3	1:i:250:MET:SD	2.58	0.44
1:i:431:SER:OG	1:i:433:HIS:CD2	2.68	0.44
1:k:129:LEU:HD12	1:k:133:CYS:SG	2.58	0.44
1:l:89:GLN:NE2	1:l:229:GLN:HB2	2.28	0.44
1:l:109:TRP:CZ3	1:l:485:LYS:HB2	2.48	0.44
1:l:183:LEU:HB3	1:l:250:MET:SD	2.58	0.44
1:n:414:GLN:HA	1:n:426:HIS:O	2.17	0.44
1:r:353:GLN:NE2	1:r:404:GLN:HB3	2.32	0.44
1:r:523:ARG:O	1:r:523:ARG:HG3	2.18	0.44
1:s:109:TRP:HZ3	1:s:485:LYS:CB	2.27	0.44
1:s:183:LEU:HB3	1:s:250:MET:SD	2.58	0.44
1:s:334:SER:N	1:s:435:THR:OG1	2.51	0.44
1:u:101:TYR:CD2	1:u:101:TYR:O	2.70	0.44
1:u:334:SER:HG	1:u:435:THR:CB	2.28	0.44
1:v:298:GLU:HA	1:v:299:GLY:HA2	1.56	0.44
1:y:192:TYR:HD1	1:6:308:ILE:HG21	1.83	0.44
1:y:244:PHE:C	1:y:246:PRO:HD3	2.41	0.44
1:y:470:HIS:O	1:y:470:HIS:CG	2.69	0.44
1:7:183:LEU:HB3	1:7:250:MET:SD	2.58	0.44
1:A:37:SER:HG	1:E:257:ARG:N	2.12	0.44
1:A:129:LEU:HD12	1:A:133:CYS:SG	2.58	0.44
1:A:334:SER:HG	1:A:435:THR:CB	2.28	0.44
1:B:334:SER:HG	1:B:435:THR:CB	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:381:TRP:O	1:B:381:TRP:CG	2.70	0.44
1:C:308:ILE:HG21	1:1:192:TYR:HD1	1.83	0.44
1:C:390:MET:HA	1:C:391:ARG:HA	1.72	0.44
1:E:334:SER:N	1:E:435:THR:OG1	2.51	0.44
1:E:404:GLN:HE22	1:E:443:ASP:HB2	1.81	0.44
1:F:101:TYR:CD2	1:F:101:TYR:O	2.70	0.44
1:F:129:LEU:HD12	1:F:133:CYS:SG	2.58	0.44
1:F:192:TYR:HD1	1:Q:308:ILE:HG21	1.83	0.44
1:F:353:GLN:NE2	1:F:404:GLN:HB3	2.32	0.44
1:F:381:TRP:O	1:F:381:TRP:CG	2.70	0.44
1:H:381:TRP:O	1:H:381:TRP:CG	2.70	0.44
1:K:192:TYR:HD1	1:7:308:ILE:HG21	1.83	0.44
1:L:549:ALA:O	1:1:75:ARG:HD2	2.18	0.44
1:M:35:GLY:C	1:N:257:ARG:HH11	2.17	0.44
1:N:183:LEU:HB3	1:N:250:MET:SD	2.58	0.44
1:N:523:ARG:O	1:N:523:ARG:HG3	2.18	0.44
1:P:183:LEU:HB3	1:P:250:MET:SD	2.58	0.44
1:R:35:GLY:O	1:R:36:HIS:C	2.60	0.44
1:R:324:THR:HG22	1:S:349:ILE:CD1	2.48	0.44
1:R:353:GLN:NE2	1:R:404:GLN:HB3	2.32	0.44
1:R:390:MET:HA	1:R:391:ARG:HA	1.72	0.44
1:T:183:LEU:HB3	1:T:250:MET:SD	2.58	0.44
1:U:414:GLN:HA	1:U:426:HIS:O	2.17	0.44
1:V:439:TYR:CZ	1:4:469:ALA:HB2	2.50	0.44
1:X:37:SER:HG	1:Y:257:ARG:N	2.11	0.44
1:X:334:SER:OG	1:X:435:THR:OG1	2.17	0.44
1:X:349:ILE:CD1	1:4:324:THR:HG22	2.48	0.44
1:X:381:TRP:O	1:X:381:TRP:CG	2.70	0.44
1:X:431:SER:OG	1:X:433:HIS:CD2	2.68	0.44
1:Y:183:LEU:HB3	1:Y:250:MET:SD	2.58	0.44
1:Z:349:ILE:CD1	1:w:324:THR:HG22	2.48	0.44
1:0:191:PHE:N	1:0:191:PHE:CD1	2.81	0.44
1:1:334:SER:N	1:1:435:THR:OG1	2.51	0.44
1:3:334:SER:N	1:3:435:THR:OG1	2.51	0.44
1:3:523:ARG:O	1:3:523:ARG:HG3	2.18	0.44
1:a:75:ARG:HD2	1:e:549:ALA:O	2.18	0.44
1:a:549:ALA:O	1:u:75:ARG:HD2	2.17	0.44
1:b:470:HIS:O	1:b:470:HIS:CG	2.69	0.44
1:c:183:LEU:HB3	1:c:250:MET:SD	2.58	0.44
1:d:161:GLN:HB3	1:r:158:ALA:HA	1.98	0.44
1:g:109:TRP:CZ3	1:g:485:LYS:HB2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:35:GLY:O	1:h:36:HIS:C	2.60	0.44
1:j:334:SER:N	1:j:435:THR:OG1	2.51	0.44
1:j:523:ARG:O	1:j:523:ARG:HG3	2.18	0.44
1:k:192:TYR:HD1	1:m:308:ILE:HG21	1.83	0.44
1:k:334:SER:N	1:k:435:THR:OG1	2.51	0.44
1:m:414:GLN:HA	1:m:426:HIS:O	2.17	0.44
1:n:179:ASP:OD1	1:n:251:ILE:HG21	2.17	0.44
1:o:129:LEU:HD12	1:o:133:CYS:SG	2.58	0.44
1:o:353:GLN:NE2	1:o:404:GLN:HB3	2.32	0.44
1:p:89:GLN:NE2	1:p:229:GLN:HB2	2.28	0.44
1:p:175:GLN:HE21	1:p:485:LYS:HE2	1.81	0.44
1:p:257:ARG:HH11	1:u:35:GLY:C	2.17	0.44
1:p:334:SER:N	1:p:435:THR:OG1	2.51	0.44
1:p:381:TRP:CG	1:p:381:TRP:O	2.70	0.44
1:q:346:GLY:CA	1:s:284:ARG:HD2	2.44	0.44
1:q:353:GLN:NE2	1:q:404:GLN:HB3	2.32	0.44
1:r:139:SER:O	1:r:269:PHE:N	2.45	0.44
1:r:324:THR:HG22	1:s:349:ILE:CD1	2.48	0.44
1:t:324:THR:HG22	1:u:349:ILE:CD1	2.48	0.44
1:t:559:PRO:HA	1:t:560:GLY:HA3	1.80	0.44
1:u:308:ILE:HG21	1:v:192:TYR:HD1	1.83	0.44
1:w:349:ILE:CD1	1:x:324:THR:HG22	2.48	0.44
1:w:523:ARG:HG3	1:w:523:ARG:O	2.18	0.44
1:y:139:SER:O	1:y:269:PHE:N	2.45	0.44
1:y:353:GLN:NE2	1:y:404:GLN:HB3	2.32	0.44
1:z:33:GLY:C	1:z:36:HIS:HD2	2.17	0.44
1:6:414:GLN:HA	1:6:426:HIS:O	2.17	0.44
1:A:257:ARG:CG	1:B:37:SER:HG	2.01	0.44
1:B:308:ILE:HG21	1:J:192:TYR:HD1	1.83	0.44
1:B:334:SER:N	1:B:435:THR:OG1	2.51	0.44
1:D:75:ARG:HD2	1:E:549:ALA:O	2.18	0.44
1:E:100:SER:O	1:E:100:SER:OG	2.23	0.44
1:G:139:SER:O	1:G:269:PHE:N	2.45	0.44
1:G:244:PHE:HE2	1:G:246:PRO:HB3	1.63	0.44
1:G:324:THR:HG22	1:I:349:ILE:CD1	2.48	0.44
1:H:324:THR:HG22	1:W:349:ILE:CD1	2.48	0.44
1:H:334:SER:HG	1:H:435:THR:CB	2.28	0.44
1:J:129:LEU:HD12	1:J:133:CYS:SG	2.58	0.44
1:J:191:PHE:CD1	1:J:191:PHE:N	2.81	0.44
1:K:35:GLY:O	1:K:36:HIS:C	2.60	0.44
1:K:102:HIS:HE1	1:K:104:LYS:HE3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:549:ALA:O	1:N:75:ARG:HD2	2.18	0.44
1:N:38:THR:HG22	1:N:147:ASN:HB3	2.00	0.44
1:O:98:ASN:HA	1:h:323:SER:HG	1.76	0.44
1:O:129:LEU:HD12	1:O:133:CYS:SG	2.58	0.44
1:O:192:TYR:HD1	1:h:308:ILE:HG21	1.83	0.44
1:O:308:ILE:HG21	1:g:192:TYR:HD1	1.83	0.44
1:O:324:THR:HG22	1:g:349:ILE:CD1	2.48	0.44
1:O:334:SER:N	1:O:435:THR:OG1	2.51	0.44
1:Q:129:LEU:HD12	1:Q:133:CYS:SG	2.58	0.44
1:Q:179:ASP:OD1	1:Q:251:ILE:HG21	2.17	0.44
1:Q:390:MET:HA	1:Q:391:ARG:HA	1.72	0.44
1:Q:431:SER:OG	1:Q:433:HIS:CD2	2.68	0.44
1:R:470:HIS:O	1:R:470:HIS:CG	2.69	0.44
1:S:146:GLU:HA	1:S:147:ASN:HA	1.79	0.44
1:T:101:TYR:CD2	1:T:101:TYR:O	2.70	0.44
1:W:324:THR:HG22	1:Y:349:ILE:CD1	2.48	0.44
1:X:374:THR:OG1	1:X:396:GLN:O	2.34	0.44
1:Z:183:LEU:HB3	1:Z:250:MET:SD	2.58	0.44
1:0:334:SER:OG	1:0:435:THR:OG1	2.17	0.44
1:1:470:HIS:O	1:1:470:HIS:CG	2.69	0.44
1:4:381:TRP:O	1:4:381:TRP:CG	2.70	0.44
1:5:404:GLN:HE22	1:5:443:ASP:HB2	1.81	0.44
1:a:334:SER:HG	1:a:435:THR:CB	2.27	0.44
1:a:334:SER:N	1:a:435:THR:OG1	2.51	0.44
1:b:523:ARG:O	1:b:523:ARG:HG3	2.18	0.44
1:c:334:SER:N	1:c:435:THR:OG1	2.51	0.44
1:d:37:SER:CA	1:r:257:ARG:HG2	2.32	0.44
1:d:549:ALA:O	1:r:75:ARG:HD2	2.18	0.44
1:e:381:TRP:O	1:e:381:TRP:CG	2.70	0.44
1:g:89:GLN:NE2	1:g:229:GLN:HB2	2.28	0.44
1:i:37:SER:HG	1:6:257:ARG:N	2.11	0.44
1:i:324:THR:HG22	1:j:349:ILE:CD1	2.48	0.44
1:j:298:GLU:HA	1:j:299:GLY:HA2	1.56	0.44
1:k:324:THR:HG22	1:l:349:ILE:CD1	2.48	0.44
1:l:334:SER:HG	1:l:435:THR:CB	2.28	0.44
1:l:334:SER:N	1:l:435:THR:OG1	2.51	0.44
1:n:129:LEU:HD12	1:n:133:CYS:SG	2.58	0.44
1:n:431:SER:OG	1:n:433:HIS:CD2	2.68	0.44
1:o:334:SER:HG	1:o:435:THR:CB	2.26	0.44
1:o:381:TRP:O	1:o:381:TRP:CG	2.70	0.44
1:o:523:ARG:HG3	1:o:523:ARG:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:179:ASP:OD1	1:p:251:ILE:HG21	2.17	0.44
1:p:549:ALA:O	1:q:75:ARG:HD2	2.18	0.44
1:q:334:SER:N	1:q:435:THR:OG1	2.51	0.44
1:q:357:GLN:CB	1:q:362:SER:HB3	2.48	0.44
1:r:38:THR:HG22	1:r:147:ASN:HB3	2.00	0.44
1:r:183:LEU:HB3	1:r:250:MET:SD	2.58	0.44
1:u:129:LEU:HD12	1:u:133:CYS:SG	2.58	0.44
1:x:381:TRP:O	1:x:381:TRP:CG	2.70	0.44
1:y:414:GLN:HA	1:y:426:HIS:O	2.17	0.44
1:z:102:HIS:HE1	1:z:104:LYS:HE3	1.81	0.44
1:z:179:ASP:OD1	1:z:251:ILE:HG21	2.17	0.44
1:7:470:HIS:O	1:7:470:HIS:CG	2.69	0.44
1:A:38:THR:HG22	1:A:147:ASN:HB3	2.00	0.44
1:A:311:TRP:CZ3	1:G:377:ALA:HB2	2.53	0.44
1:A:377:ALA:HB2	1:I:311:TRP:CZ3	2.53	0.44
1:B:101:TYR:CD2	1:B:101:TYR:O	2.70	0.44
1:B:324:THR:HG22	1:J:349:ILE:CD1	2.48	0.44
1:B:349:ILE:CD1	1:L:324:THR:HG22	2.48	0.44
1:C:334:SER:N	1:C:435:THR:OG1	2.51	0.44
1:C:349:ILE:CD1	1:M:324:THR:HG22	2.48	0.44
1:D:65:HIS:CD2	1:D:205:LYS:HE2	2.53	0.44
1:D:346:GLY:CA	1:P:284:ARG:HD2	2.44	0.44
1:D:357:GLN:CB	1:D:362:SER:HB3	2.48	0.44
1:E:179:ASP:OD1	1:E:251:ILE:HG21	2.17	0.44
1:E:263:GLU:HA	1:E:264:SER:HA	1.76	0.44
1:F:38:THR:HG22	1:F:147:ASN:HB3	2.00	0.44
1:F:349:ILE:CD1	1:Q:324:THR:HG22	2.48	0.44
1:J:101:TYR:CD2	1:J:101:TYR:O	2.70	0.44
1:J:324:THR:HG22	1:L:349:ILE:CD1	2.48	0.44
1:K:381:TRP:O	1:K:381:TRP:CG	2.70	0.44
1:L:523:ARG:HG3	1:L:523:ARG:O	2.18	0.44
1:M:38:THR:HG22	1:M:147:ASN:HB3	2.00	0.44
1:M:561:ARG:HA	1:M:561:ARG:HD3	1.88	0.44
1:N:134:ARG:O	1:N:276:LEU:N	2.32	0.44
1:N:175:GLN:HE21	1:N:485:LYS:HE2	1.81	0.44
1:N:324:THR:HG22	1:P:349:ILE:CD1	2.48	0.44
1:N:353:GLN:NE2	1:N:404:GLN:HB3	2.32	0.44
1:N:390:MET:HA	1:N:391:ARG:HA	1.72	0.44
1:O:381:TRP:O	1:O:381:TRP:CG	2.70	0.44
1:P:66:ILE:O	1:P:508:GLY:N	2.48	0.44
1:R:308:ILE:HG21	1:S:192:TYR:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:179:ASP:OD1	1:S:251:ILE:HG21	2.17	0.44
1:T:37:SER:HG	1:U:257:ARG:N	2.11	0.44
1:T:324:THR:HG22	1:3:349:ILE:CD1	2.48	0.44
1:U:65:HIS:CD2	1:U:205:LYS:HE2	2.53	0.44
1:U:101:TYR:CD2	1:U:101:TYR:O	2.70	0.44
1:V:257:ARG:N	1:W:37:SER:HG	2.12	0.44
1:X:66:ILE:O	1:X:508:GLY:N	2.48	0.44
1:0:245:THR:HA	1:0:246:PRO:HD2	1.50	0.44
1:1:183:LEU:HB3	1:1:250:MET:SD	2.58	0.44
1:2:334:SER:N	1:2:435:THR:OG1	2.51	0.44
1:4:101:TYR:CD2	1:4:101:TYR:O	2.70	0.44
1:4:179:ASP:OD1	1:4:251:ILE:HG21	2.17	0.44
1:5:101:TYR:CD2	1:5:101:TYR:O	2.70	0.44
1:a:191:PHE:CE2	1:b:327:SER:HA	2.53	0.44
1:a:523:ARG:O	1:a:523:ARG:HG3	2.18	0.44
1:b:38:THR:HG22	1:b:147:ASN:HB3	2.00	0.44
1:d:35:GLY:C	1:r:257:ARG:HH11	2.17	0.44
1:d:38:THR:HG22	1:d:147:ASN:HB3	2.00	0.44
1:d:324:THR:HG22	1:e:349:ILE:CD1	2.48	0.44
1:g:65:HIS:CD2	1:g:205:LYS:HE2	2.53	0.44
1:g:191:PHE:N	1:g:191:PHE:CD1	2.81	0.44
1:g:334:SER:N	1:g:435:THR:OG1	2.51	0.44
1:h:101:TYR:CD2	1:h:101:TYR:O	2.70	0.44
1:h:334:SER:N	1:h:435:THR:OG1	2.51	0.44
1:h:381:TRP:CG	1:h:381:TRP:O	2.70	0.44
1:h:414:GLN:HA	1:h:426:HIS:O	2.17	0.44
1:i:101:TYR:CD2	1:i:101:TYR:O	2.70	0.44
1:i:284:ARG:HD2	1:j:346:GLY:CA	2.44	0.44
1:i:523:ARG:O	1:i:523:ARG:HG3	2.18	0.44
1:i:549:ALA:O	1:6:75:ARG:HD2	2.18	0.44
1:j:374:THR:OG1	1:j:396:GLN:O	2.34	0.44
1:k:431:SER:OG	1:k:433:HIS:CD2	2.68	0.44
1:m:334:SER:N	1:m:435:THR:OG1	2.51	0.44
1:n:324:THR:HG22	1:o:349:ILE:CD1	2.48	0.44
1:q:414:GLN:HA	1:q:426:HIS:O	2.17	0.44
1:r:89:GLN:NE2	1:r:229:GLN:HB2	2.28	0.44
1:r:175:GLN:HE21	1:r:485:LYS:HE2	1.81	0.44
1:s:66:ILE:O	1:s:508:GLY:N	2.48	0.44
1:t:349:ILE:CD1	1:v:324:THR:HG22	2.48	0.44
1:u:263:GLU:HA	1:u:264:SER:HA	1.76	0.44
1:u:324:THR:HG22	1:v:349:ILE:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:308:ILE:HG21	1:z:192:TYR:HD1	1.83	0.44
1:7:298:GLU:HA	1:7:299:GLY:HA2	1.56	0.44
1:7:381:TRP:O	1:7:381:TRP:CG	2.70	0.44
1:A:263:GLU:HA	1:A:264:SER:HA	1.76	0.43
1:D:311:TRP:CZ3	1:N:377:ALA:HB2	2.53	0.43
1:D:334:SER:N	1:D:435:THR:OG1	2.51	0.43
1:D:533:LEU:HD13	1:D:563:MET:HE1	2.00	0.43
1:E:334:SER:HG	1:E:435:THR:CB	2.28	0.43
1:F:183:LEU:HB3	1:F:250:MET:SD	2.58	0.43
1:F:523:ARG:O	1:F:523:ARG:HG3	2.18	0.43
1:G:284:ARG:HD2	1:I:346:GLY:CA	2.44	0.43
1:H:101:TYR:CD2	1:H:101:TYR:O	2.70	0.43
1:I:533:LEU:HD13	1:I:563:MET:HE1	2.00	0.43
1:K:179:ASP:OD1	1:K:251:ILE:HG21	2.17	0.43
1:K:324:THR:HG22	1:0:349:ILE:CD1	2.48	0.43
1:L:38:THR:HG22	1:L:147:ASN:HB3	2.00	0.43
1:L:381:TRP:O	1:L:381:TRP:CG	2.70	0.43
1:M:65:HIS:CD2	1:M:205:LYS:HE2	2.53	0.43
1:N:414:GLN:HA	1:N:426:HIS:O	2.17	0.43
1:S:65:HIS:CD2	1:S:205:LYS:HE2	2.53	0.43
1:S:308:ILE:HG21	1:U:192:TYR:HD1	1.83	0.43
1:T:414:GLN:HA	1:T:426:HIS:O	2.17	0.43
1:T:439:TYR:CZ	1:3:469:ALA:HB2	2.50	0.43
1:T:549:ALA:O	1:U:75:ARG:HD2	2.18	0.43
1:U:129:LEU:HD12	1:U:133:CYS:SG	2.58	0.43
1:V:381:TRP:O	1:V:381:TRP:CG	2.70	0.43
1:X:65:HIS:CD2	1:X:205:LYS:HE2	2.53	0.43
1:X:192:TYR:HD1	1:4:308:ILE:HG21	1.83	0.43
1:Y:381:TRP:O	1:Y:381:TRP:CG	2.70	0.43
1:Y:549:ALA:O	1:x:75:ARG:HD2	2.18	0.43
1:Z:381:TRP:O	1:Z:381:TRP:CG	2.70	0.43
1:0:65:HIS:CD2	1:0:205:LYS:HE2	2.53	0.43
1:0:66:ILE:O	1:0:508:GLY:N	2.48	0.43
1:0:379:TYR:CD2	1:0:392:GLU:HG3	2.44	0.43
1:0:431:SER:OG	1:0:433:HIS:CD2	2.68	0.43
1:1:333:TYR:CE2	1:1:335:TRP:CE3	3.06	0.43
1:2:245:THR:HA	1:2:246:PRO:HD2	1.50	0.43
1:2:390:MET:HA	1:2:391:ARG:HA	1.72	0.43
1:a:101:TYR:CD2	1:a:101:TYR:O	2.70	0.43
1:b:129:LEU:HD12	1:b:133:CYS:SG	2.58	0.43
1:b:381:TRP:O	1:b:381:TRP:CG	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:470:HIS:O	1:c:470:HIS:CG	2.69	0.43
1:d:308:ILE:HG21	1:e:192:TYR:HD1	1.83	0.43
1:d:334:SER:N	1:d:435:THR:OG1	2.51	0.43
1:e:75:ARG:HD2	1:q:549:ALA:O	2.18	0.43
1:g:549:ALA:O	1:m:75:ARG:HD2	2.18	0.43
1:k:381:TRP:O	1:k:381:TRP:CG	2.70	0.43
1:m:101:TYR:CD2	1:m:101:TYR:O	2.70	0.43
1:m:381:TRP:O	1:m:381:TRP:CG	2.70	0.43
1:o:38:THR:HG22	1:o:147:ASN:HB3	2.00	0.43
1:p:183:LEU:HB3	1:p:250:MET:SD	2.58	0.43
1:q:65:HIS:CD2	1:q:205:LYS:HE2	2.53	0.43
1:q:311:TRP:CZ3	1:r:377:ALA:HB2	2.54	0.43
1:q:324:THR:HG22	1:r:349:ILE:CD1	2.48	0.43
1:t:65:HIS:CD2	1:t:205:LYS:HE2	2.53	0.43
1:u:38:THR:HG22	1:u:147:ASN:HB3	2.00	0.43
1:v:139:SER:O	1:v:269:PHE:N	2.45	0.43
1:z:308:ILE:HG21	1:6:192:TYR:HD1	1.83	0.43
1:6:65:HIS:CD2	1:6:205:LYS:HE2	2.53	0.43
1:6:101:TYR:CD2	1:6:101:TYR:O	2.70	0.43
1:B:65:HIS:CD2	1:B:205:LYS:HE2	2.53	0.43
1:B:523:ARG:O	1:B:523:ARG:HG3	2.18	0.43
1:C:75:ARG:HD2	1:D:549:ALA:O	2.18	0.43
1:C:192:TYR:HD1	1:M:308:ILE:HG21	1.83	0.43
1:D:324:THR:HG22	1:N:349:ILE:CD1	2.48	0.43
1:D:523:ARG:O	1:D:523:ARG:HG3	2.18	0.43
1:E:129:LEU:HD12	1:E:133:CYS:SG	2.58	0.43
1:E:183:LEU:HB3	1:E:250:MET:SD	2.58	0.43
1:G:65:HIS:CD2	1:G:205:LYS:HE2	2.53	0.43
1:H:75:ARG:HD2	1:Z:549:ALA:O	2.18	0.43
1:H:549:ALA:O	1:I:75:ARG:HD2	2.18	0.43
1:I:65:HIS:CD2	1:I:205:LYS:HE2	2.53	0.43
1:J:533:LEU:HD13	1:J:563:MET:HE1	2.01	0.43
1:K:101:TYR:CD2	1:K:101:TYR:O	2.70	0.43
1:K:311:TRP:CZ3	1:0:377:ALA:HB2	2.53	0.43
1:L:245:THR:HA	1:L:246:PRO:HD2	1.50	0.43
1:L:533:LEU:HD13	1:L:563:MET:HE1	2.00	0.43
1:M:66:ILE:O	1:M:508:GLY:N	2.48	0.43
1:M:357:GLN:CB	1:M:362:SER:HB3	2.48	0.43
1:N:334:SER:N	1:N:435:THR:OG1	2.51	0.43
1:N:549:ALA:O	1:g:75:ARG:HD2	2.18	0.43
1:O:379:TYR:CD2	1:O:392:GLU:HG3	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:439:TYR:CE1	1:g:469:ALA:CB	2.87	0.43
1:O:469:ALA:HB2	1:h:439:TYR:CZ	2.50	0.43
1:O:549:ALA:O	1:P:75:ARG:HD2	2.18	0.43
1:R:469:ALA:CB	1:U:439:TYR:CE1	2.86	0.43
1:T:308:ILE:HG21	1:3:192:TYR:HD1	1.83	0.43
1:T:334:SER:N	1:T:435:THR:OG1	2.51	0.43
1:T:357:GLN:CB	1:T:362:SER:HB3	2.47	0.43
1:U:341:HIS:HE1	1:U:343:SER:HB2	1.81	0.43
1:V:33:GLY:C	1:V:36:HIS:HD2	2.17	0.43
1:V:298:GLU:HA	1:V:299:GLY:HA2	1.56	0.43
1:W:38:THR:HG22	1:W:147:ASN:HB3	2.00	0.43
1:W:65:HIS:CD2	1:W:205:LYS:HE2	2.53	0.43
1:0:311:TRP:CZ3	1:7:377:ALA:HB2	2.54	0.43
1:0:374:THR:OG1	1:0:396:GLN:O	2.34	0.43
1:1:37:SER:HG	1:i:257:ARG:N	2.12	0.43
1:3:179:ASP:OD1	1:3:251:ILE:HG21	2.17	0.43
1:3:298:GLU:HA	1:3:299:GLY:HA2	1.56	0.43
1:4:334:SER:N	1:4:435:THR:OG1	2.51	0.43
1:5:129:LEU:HD12	1:5:133:CYS:SG	2.58	0.43
1:5:533:LEU:HD13	1:5:563:MET:HE1	2.00	0.43
1:a:65:HIS:CD2	1:a:205:LYS:HE2	2.53	0.43
1:a:342:TYR:H	1:b:411:ASN:HD22	1.65	0.43
1:c:333:TYR:CE2	1:c:335:TRP:CE3	3.06	0.43
1:c:439:TYR:CZ	1:d:469:ALA:HB2	2.50	0.43
1:d:65:HIS:CD2	1:d:205:LYS:HE2	2.53	0.43
1:e:334:SER:N	1:e:435:THR:OG1	2.51	0.43
1:f:334:SER:N	1:f:435:THR:OG1	2.51	0.43
1:i:414:GLN:HA	1:i:426:HIS:O	2.17	0.43
1:j:179:ASP:OD1	1:j:251:ILE:HG21	2.17	0.43
1:l:65:HIS:CD2	1:l:205:LYS:HE2	2.54	0.43
1:m:65:HIS:CD2	1:m:205:LYS:HE2	2.53	0.43
1:n:75:ARG:HD2	1:s:549:ALA:O	2.18	0.43
1:o:549:ALA:O	1:v:75:ARG:HD2	2.18	0.43
1:p:129:LEU:HD12	1:p:133:CYS:SG	2.58	0.43
1:q:533:LEU:HD13	1:q:563:MET:HE1	2.01	0.43
1:r:308:ILE:HG21	1:s:192:TYR:HD1	1.83	0.43
1:s:523:ARG:HG3	1:s:523:ARG:O	2.18	0.43
1:t:333:TYR:CE2	1:t:335:TRP:CE3	3.06	0.43
1:t:334:SER:N	1:t:435:THR:OG1	2.51	0.43
1:t:533:LEU:HD13	1:t:563:MET:HE1	2.01	0.43
1:v:65:HIS:CD2	1:v:205:LYS:HE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:245:THR:HA	1:v:246:PRO:HD2	1.50	0.43
1:w:65:HIS:CD2	1:w:205:LYS:HE2	2.53	0.43
1:x:101:TYR:CD2	1:x:101:TYR:O	2.70	0.43
1:y:469:ALA:CB	1:6:439:TYR:CE1	2.86	0.43
1:z:65:HIS:CD2	1:z:205:LYS:HE2	2.53	0.43
1:z:533:LEU:HD13	1:z:563:MET:HE1	2.01	0.43
1:6:341:HIS:HE1	1:6:343:SER:HB2	1.81	0.43
1:7:333:TYR:CE2	1:7:335:TRP:CE3	3.06	0.43
1:A:284:ARG:HD2	1:G:346:GLY:CA	2.44	0.43
1:B:183:LEU:HB3	1:B:250:MET:SD	2.58	0.43
1:D:129:LEU:HD12	1:D:133:CYS:SG	2.58	0.43
1:D:414:GLN:HA	1:D:426:HIS:O	2.17	0.43
1:F:533:LEU:HD13	1:F:563:MET:HE1	2.00	0.43
1:H:533:LEU:HD13	1:H:563:MET:HE1	2.00	0.43
1:I:66:ILE:O	1:I:508:GLY:N	2.48	0.43
1:I:333:TYR:CE2	1:I:335:TRP:CE3	3.06	0.43
1:I:381:TRP:CG	1:I:381:TRP:O	2.70	0.43
1:I:559:PRO:HA	1:I:560:GLY:HA3	1.80	0.43
1:J:146:GLU:HA	1:J:147:ASN:HA	1.79	0.43
1:J:439:TYR:CZ	1:L:469:ALA:HB2	2.50	0.43
1:K:65:HIS:CD2	1:K:205:LYS:HE2	2.53	0.43
1:K:414:GLN:HA	1:K:426:HIS:O	2.17	0.43
1:L:37:SER:HG	1:1:257:ARG:N	2.11	0.43
1:L:139:SER:O	1:L:269:PHE:N	2.45	0.43
1:M:179:ASP:OD1	1:M:251:ILE:HG21	2.17	0.43
1:M:334:SER:N	1:M:435:THR:OG1	2.51	0.43
1:M:469:ALA:HB2	1:1:439:TYR:CZ	2.50	0.43
1:N:65:HIS:CD2	1:N:205:LYS:HE2	2.53	0.43
1:O:431:SER:OG	1:O:433:HIS:CD2	2.68	0.43
1:P:523:ARG:HG3	1:P:523:ARG:O	2.18	0.43
1:P:549:ALA:O	1:Q:75:ARG:HD2	2.18	0.43
1:Q:533:LEU:HD13	1:Q:563:MET:HE1	2.00	0.43
1:R:349:ILE:CD1	1:U:324:THR:HG22	2.48	0.43
1:S:89:GLN:NE2	1:S:229:GLN:HB2	2.29	0.43
1:S:381:TRP:O	1:S:381:TRP:CG	2.70	0.43
1:S:431:SER:OG	1:S:433:HIS:CD2	2.68	0.43
1:S:533:LEU:HD13	1:S:563:MET:HE1	2.01	0.43
1:T:284:ARG:HD2	1:3:346:GLY:CA	2.44	0.43
1:T:523:ARG:HG3	1:T:523:ARG:O	2.18	0.43
1:U:381:TRP:O	1:U:381:TRP:CG	2.70	0.43
1:V:333:TYR:CE2	1:V:335:TRP:CE3	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:334:SER:N	1:V:435:THR:OG1	2.51	0.43
1:V:377:ALA:HB2	1:X:311:TRP:CZ3	2.54	0.43
1:W:533:LEU:HD13	1:W:563:MET:HE1	2.01	0.43
1:Z:533:LEU:HD13	1:Z:563:MET:HE1	2.00	0.43
1:1:38:THR:HG22	1:1:147:ASN:HB3	2.00	0.43
1:2:324:THR:HG22	1:i:349:ILE:CD1	2.48	0.43
1:2:333:TYR:CE2	1:2:335:TRP:CE3	3.06	0.43
1:3:65:HIS:CD2	1:3:205:LYS:HE2	2.54	0.43
1:3:324:THR:HG22	1:f:349:ILE:CD1	2.48	0.43
1:4:414:GLN:HA	1:4:426:HIS:O	2.17	0.43
1:4:523:ARG:O	1:4:523:ARG:HG3	2.18	0.43
1:5:109:TRP:HZ3	1:5:485:LYS:CB	2.28	0.43
1:5:146:GLU:HA	1:5:147:ASN:HA	1.78	0.43
1:5:191:PHE:N	1:5:191:PHE:CD1	2.81	0.43
1:5:349:ILE:CD1	1:a:324:THR:HG22	2.48	0.43
1:b:139:SER:O	1:b:269:PHE:N	2.45	0.43
1:b:533:LEU:HD13	1:b:563:MET:HE1	2.01	0.43
1:c:38:THR:HG22	1:c:147:ASN:HB3	2.00	0.43
1:c:308:ILE:HG21	1:d:192:TYR:HD1	1.83	0.43
1:d:357:GLN:CB	1:d:362:SER:HB3	2.48	0.43
1:h:65:HIS:CD2	1:h:205:LYS:HE2	2.53	0.43
1:h:75:ARG:HD2	1:l:549:ALA:O	2.19	0.43
1:i:308:ILE:HG21	1:j:192:TYR:HD1	1.83	0.43
1:i:334:SER:N	1:i:435:THR:OG1	2.51	0.43
1:i:439:TYR:CZ	1:j:469:ALA:HB2	2.50	0.43
1:k:263:GLU:HA	1:k:264:SER:HA	1.75	0.43
1:l:75:ARG:HD2	1:r:549:ALA:O	2.18	0.43
1:l:191:PHE:N	1:l:191:PHE:CD1	2.81	0.43
1:m:38:THR:HG22	1:m:147:ASN:HB3	2.00	0.43
1:p:75:ARG:HD2	1:u:549:ALA:O	2.18	0.43
1:q:89:GLN:NE2	1:q:229:GLN:HB2	2.29	0.43
1:q:523:ARG:O	1:q:523:ARG:HG3	2.18	0.43
1:r:414:GLN:HA	1:r:426:HIS:O	2.17	0.43
1:t:66:ILE:O	1:t:508:GLY:N	2.48	0.43
1:t:346:GLY:CA	1:v:284:ARG:HD2	2.44	0.43
1:t:381:TRP:O	1:t:381:TRP:CG	2.70	0.43
1:w:390:MET:HA	1:w:391:ARG:HA	1.72	0.43
1:w:533:LEU:HD13	1:w:563:MET:HE1	2.01	0.43
1:y:75:ARG:HD2	1:7:549:ALA:O	2.18	0.43
1:y:349:ILE:CD1	1:6:324:THR:HG22	2.48	0.43
1:6:129:LEU:HD12	1:6:133:CYS:SG	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:334:SER:N	1:7:435:THR:OG1	2.51	0.43
1:7:343:SER:OG	1:7:344:THR:N	2.48	0.43
1:A:523:ARG:O	1:A:523:ARG:HG3	2.18	0.43
1:B:75:ARG:HD2	1:C:549:ALA:O	2.18	0.43
1:B:377:ALA:HB2	1:L:311:TRP:CZ3	2.54	0.43
1:D:89:GLN:NE2	1:D:229:GLN:HB2	2.28	0.43
1:D:183:LEU:HB3	1:D:250:MET:SD	2.58	0.43
1:D:308:ILE:HG21	1:N:192:TYR:HD1	1.83	0.43
1:E:38:THR:HG22	1:E:147:ASN:HB3	2.00	0.43
1:E:324:THR:HG22	1:Q:349:ILE:CD1	2.48	0.43
1:F:65:HIS:CD2	1:F:205:LYS:HE2	2.53	0.43
1:F:334:SER:N	1:F:435:THR:OG1	2.51	0.43
1:F:549:ALA:O	1:G:75:ARG:HD2	2.18	0.43
1:H:38:THR:HG22	1:H:147:ASN:HB3	2.00	0.43
1:H:377:ALA:HB2	1:Y:311:TRP:CZ3	2.54	0.43
1:I:334:SER:N	1:I:435:THR:OG1	2.51	0.43
1:I:549:ALA:O	1:J:75:ARG:HD2	2.19	0.43
1:J:414:GLN:HA	1:J:426:HIS:O	2.17	0.43
1:K:308:ILE:HG21	1:0:192:TYR:HD1	1.83	0.43
1:K:334:SER:N	1:K:435:THR:OG1	2.51	0.43
1:K:523:ARG:O	1:K:523:ARG:HG3	2.18	0.43
1:L:65:HIS:CD2	1:L:205:LYS:HE2	2.53	0.43
1:L:129:LEU:HD12	1:L:133:CYS:SG	2.58	0.43
1:M:37:SER:CA	1:N:257:ARG:HG2	2.32	0.43
1:O:37:SER:HG	1:P:257:ARG:N	2.10	0.43
1:O:38:THR:HG22	1:O:147:ASN:HB3	2.00	0.43
1:O:65:HIS:CD2	1:O:205:LYS:HE2	2.53	0.43
1:O:263:GLU:HA	1:O:264:SER:HA	1.76	0.43
1:P:533:LEU:HD13	1:P:563:MET:HE1	2.01	0.43
1:R:89:GLN:NE2	1:R:229:GLN:HB2	2.28	0.43
1:T:65:HIS:CD2	1:T:205:LYS:HE2	2.53	0.43
1:U:523:ARG:O	1:U:523:ARG:HG3	2.18	0.43
1:V:523:ARG:O	1:V:523:ARG:HG3	2.18	0.43
1:X:35:GLY:C	1:Y:257:ARG:HH11	2.17	0.43
1:X:38:THR:HG22	1:X:147:ASN:HB3	2.00	0.43
1:Y:533:LEU:HD13	1:Y:563:MET:HE1	2.01	0.43
1:Z:257:ARG:HH11	1:0:35:GLY:C	2.18	0.43
1:0:38:THR:HG22	1:0:147:ASN:HB3	2.00	0.43
1:0:298:GLU:HA	1:0:299:GLY:HA2	1.56	0.43
1:1:414:GLN:HA	1:1:426:HIS:O	2.17	0.43
1:1:557:TYR:CZ	1:1:559:PRO:HG3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:101:TYR:CD2	1:2:101:TYR:O	2.70	0.43
1:4:65:HIS:CD2	1:4:205:LYS:HE2	2.53	0.43
1:5:334:SER:N	1:5:435:THR:OG1	2.51	0.43
1:5:414:GLN:HA	1:5:426:HIS:O	2.17	0.43
1:a:146:GLU:HA	1:a:147:ASN:HA	1.78	0.43
1:d:561:ARG:HA	1:d:561:ARG:HD3	1.88	0.43
1:e:557:TYR:CZ	1:e:559:PRO:HG3	2.54	0.43
1:f:333:TYR:CE2	1:f:335:TRP:CE3	3.06	0.43
1:g:333:TYR:CE2	1:g:335:TRP:CE3	3.06	0.43
1:h:38:THR:HG22	1:h:147:ASN:HB3	2.00	0.43
1:h:66:ILE:O	1:h:508:GLY:N	2.48	0.43
1:i:35:GLY:O	1:i:36:HIS:C	2.60	0.43
1:i:65:HIS:CD2	1:i:205:LYS:HE2	2.53	0.43
1:i:357:GLN:CB	1:i:362:SER:HB3	2.48	0.43
1:i:381:TRP:O	1:i:381:TRP:CG	2.70	0.43
1:j:65:HIS:CD2	1:j:205:LYS:HE2	2.54	0.43
1:j:549:ALA:O	1:k:75:ARG:HD2	2.18	0.43
1:k:139:SER:O	1:k:269:PHE:N	2.45	0.43
1:k:146:GLU:HA	1:k:147:ASN:HA	1.79	0.43
1:k:308:ILE:HG21	1:l:192:TYR:HD1	1.83	0.43
1:l:38:THR:HG22	1:l:147:ASN:HB3	2.00	0.43
1:l:333:TYR:CE2	1:l:335:TRP:CE3	3.06	0.43
1:n:59:HIS:HE1	1:n:515:LYS:HZ1	1.65	0.43
1:n:334:SER:N	1:n:435:THR:OG1	2.51	0.43
1:n:390:MET:HA	1:n:391:ARG:HA	1.72	0.43
1:o:133:CYS:HB2	1:o:520:ALA:HB1	2.01	0.43
1:o:183:LEU:HB3	1:o:250:MET:SD	2.58	0.43
1:p:38:THR:HG22	1:p:147:ASN:HB3	2.00	0.43
1:p:65:HIS:CD2	1:p:205:LYS:HE2	2.53	0.43
1:p:100:SER:O	1:p:100:SER:OG	2.23	0.43
1:q:38:THR:HG22	1:q:147:ASN:HB3	2.00	0.43
1:q:129:LEU:HD12	1:q:133:CYS:SG	2.58	0.43
1:r:129:LEU:HD12	1:r:133:CYS:SG	2.58	0.43
1:r:146:GLU:HA	1:r:147:ASN:HA	1.78	0.43
1:r:334:SER:N	1:r:435:THR:OG1	2.51	0.43
1:r:390:MET:HA	1:r:391:ARG:HA	1.72	0.43
1:r:559:PRO:HA	1:r:560:GLY:HA3	1.80	0.43
1:s:533:LEU:HD13	1:s:563:MET:HE1	2.01	0.43
1:t:75:ARG:HD2	1:x:549:ALA:O	2.18	0.43
1:t:257:ARG:HH11	1:x:35:GLY:C	2.18	0.43
1:v:89:GLN:NE2	1:v:229:GLN:HB2	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:38:THR:HG22	1:w:147:ASN:HB3	2.00	0.43
1:w:66:ILE:O	1:w:508:GLY:N	2.48	0.43
1:x:129:LEU:HD12	1:x:133:CYS:SG	2.58	0.43
1:x:533:LEU:HD13	1:x:563:MET:HE1	2.00	0.43
1:z:89:GLN:NE2	1:z:229:GLN:HB2	2.28	0.43
1:z:381:TRP:O	1:z:381:TRP:CG	2.70	0.43
1:7:334:SER:HG	1:7:435:THR:CB	2.27	0.43
1:A:65:HIS:CD2	1:A:205:LYS:HE2	2.53	0.43
1:A:183:LEU:HB3	1:A:250:MET:SD	2.58	0.43
1:A:334:SER:N	1:A:435:THR:OG1	2.51	0.43
1:B:68:MET:CA	1:B:69:SER:HB3	2.48	0.43
1:B:431:SER:OG	1:B:433:HIS:CD2	2.68	0.43
1:C:557:TYR:CZ	1:C:559:PRO:HG3	2.54	0.43
1:E:192:TYR:HD1	1:F:308:ILE:HG21	1.83	0.43
1:E:469:ALA:HB2	1:F:439:TYR:CZ	2.50	0.43
1:F:133:CYS:HB2	1:F:520:ALA:HB1	2.01	0.43
1:G:38:THR:HG22	1:G:147:ASN:HB3	2.00	0.43
1:G:89:GLN:NE2	1:G:229:GLN:HB2	2.28	0.43
1:G:133:CYS:HB2	1:G:520:ALA:HB1	2.01	0.43
1:G:308:ILE:HG21	1:I:192:TYR:HD1	1.83	0.43
1:G:533:LEU:HD13	1:G:563:MET:HE1	2.00	0.43
1:H:35:GLY:C	1:I:257:ARG:HH11	2.18	0.43
1:H:129:LEU:HD12	1:H:133:CYS:SG	2.58	0.43
1:H:557:TYR:CZ	1:H:559:PRO:HG3	2.54	0.43
1:I:146:GLU:HA	1:I:147:ASN:HA	1.79	0.43
1:J:334:SER:N	1:J:435:THR:OG1	2.51	0.43
1:K:349:ILE:CD1	1:7:324:THR:HG22	2.48	0.43
1:K:559:PRO:HA	1:K:560:GLY:HA3	1.80	0.43
1:L:133:CYS:HB2	1:L:520:ALA:HB1	2.01	0.43
1:N:129:LEU:HD12	1:N:133:CYS:SG	2.58	0.43
1:N:308:ILE:HG21	1:P:192:TYR:HD1	1.83	0.43
1:N:381:TRP:O	1:N:381:TRP:CG	2.70	0.43
1:O:139:SER:O	1:O:269:PHE:N	2.45	0.43
1:Q:38:THR:HG22	1:Q:147:ASN:HB3	2.00	0.43
1:R:65:HIS:CD2	1:R:205:LYS:HE2	2.53	0.43
1:R:75:ARG:HD2	1:V:549:ALA:O	2.18	0.43
1:R:377:ALA:HB2	1:U:311:TRP:CZ3	2.54	0.43
1:S:557:TYR:CZ	1:S:559:PRO:HG3	2.54	0.43
1:T:349:ILE:CD1	1:f:324:THR:HG22	2.48	0.43
1:T:381:TRP:O	1:T:381:TRP:CG	2.70	0.43
1:U:134:ARG:O	1:U:276:LEU:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:129:LEU:HD12	1:V:133:CYS:SG	2.57	0.43
1:V:324:THR:HG22	1:4:349:ILE:CD1	2.48	0.43
1:V:343:SER:OG	1:V:344:THR:N	2.48	0.43
1:W:66:ILE:O	1:W:508:GLY:N	2.48	0.43
1:X:146:GLU:HA	1:X:147:ASN:HA	1.79	0.43
1:X:318:ASN:HA	1:X:319:PRO:HA	1.81	0.43
1:X:377:ALA:HB2	1:4:311:TRP:CZ3	2.54	0.43
1:Z:101:TYR:CD2	1:Z:101:TYR:O	2.70	0.43
1:Z:311:TRP:CZ3	1:x:377:ALA:HB2	2.54	0.43
1:Z:439:TYR:CZ	1:x:469:ALA:HB2	2.50	0.43
1:0:390:MET:HA	1:0:391:ARG:HA	1.72	0.43
1:1:129:LEU:HD12	1:1:133:CYS:SG	2.58	0.43
1:2:75:ARG:HD2	1:m:549:ALA:O	2.18	0.43
1:2:349:ILE:CD1	1:j:324:THR:HG22	2.48	0.43
1:3:557:TYR:CZ	1:3:559:PRO:HG3	2.54	0.43
1:4:66:ILE:O	1:4:508:GLY:N	2.48	0.43
1:a:38:THR:HG22	1:a:147:ASN:HB3	2.00	0.43
1:a:183:LEU:HB3	1:a:250:MET:SD	2.58	0.43
1:a:244:PHE:HE2	1:a:246:PRO:HB3	1.63	0.43
1:b:65:HIS:CD2	1:b:205:LYS:HE2	2.53	0.43
1:b:183:LEU:HB3	1:b:250:MET:SD	2.58	0.43
1:c:129:LEU:HD12	1:c:133:CYS:SG	2.58	0.43
1:c:414:GLN:HA	1:c:426:HIS:O	2.17	0.43
1:c:557:TYR:CZ	1:c:559:PRO:HG3	2.54	0.43
1:d:66:ILE:O	1:d:508:GLY:N	2.48	0.43
1:d:179:ASP:OD1	1:d:251:ILE:HG21	2.17	0.43
1:e:66:ILE:O	1:e:508:GLY:N	2.48	0.43
1:f:101:TYR:CD2	1:f:101:TYR:O	2.70	0.43
1:j:357:GLN:CB	1:j:362:SER:HB3	2.48	0.43
1:j:381:TRP:O	1:j:381:TRP:CG	2.70	0.43
1:j:533:LEU:HD13	1:j:563:MET:HE1	2.01	0.43
1:j:557:TYR:CZ	1:j:559:PRO:HG3	2.54	0.43
1:k:38:THR:HG22	1:k:147:ASN:HB3	2.00	0.43
1:k:65:HIS:CD2	1:k:205:LYS:HE2	2.53	0.43
1:k:469:ALA:HB2	1:m:439:TYR:CZ	2.50	0.43
1:k:557:TYR:CZ	1:k:559:PRO:HG3	2.54	0.43
1:m:523:ARG:O	1:m:523:ARG:HG3	2.18	0.43
1:n:349:ILE:CD1	1:p:324:THR:HG22	2.48	0.43
1:n:533:LEU:HD13	1:n:563:MET:HE1	2.01	0.43
1:o:65:HIS:CD2	1:o:205:LYS:HE2	2.53	0.43
1:o:333:TYR:CE2	1:o:335:TRP:CE3	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:334:SER:N	1:o:435:THR:OG1	2.51	0.43
1:o:533:LEU:HD13	1:o:563:MET:HE1	2.01	0.43
1:p:559:PRO:HA	1:p:560:GLY:HA3	1.80	0.43
1:r:65:HIS:CD2	1:r:205:LYS:HE2	2.53	0.43
1:r:134:ARG:O	1:r:276:LEU:N	2.32	0.43
1:s:129:LEU:HD12	1:s:133:CYS:SG	2.58	0.43
1:t:183:LEU:HB3	1:t:250:MET:SD	2.58	0.43
1:u:183:LEU:HB3	1:u:250:MET:SD	2.58	0.43
1:u:334:SER:N	1:u:435:THR:OG1	2.51	0.43
1:v:133:CYS:HB2	1:v:520:ALA:HB1	2.01	0.43
1:x:38:THR:HG22	1:x:147:ASN:HB3	2.00	0.43
1:x:379:TYR:CD2	1:x:392:GLU:HG3	2.44	0.43
1:x:557:TYR:CZ	1:x:559:PRO:HG3	2.54	0.43
1:y:377:ALA:HB2	1:6:311:TRP:CZ3	2.54	0.43
1:y:390:MET:HA	1:y:391:ARG:HA	1.72	0.43
1:z:146:GLU:HA	1:z:147:ASN:HA	1.79	0.43
1:6:381:TRP:O	1:6:381:TRP:CG	2.70	0.43
1:6:523:ARG:O	1:6:523:ARG:HG3	2.18	0.43
1:7:523:ARG:O	1:7:523:ARG:HG3	2.18	0.43
1:B:38:THR:HG22	1:B:147:ASN:HB3	2.00	0.43
1:C:414:GLN:HA	1:C:426:HIS:O	2.17	0.43
1:D:38:THR:HG22	1:D:147:ASN:HB3	2.00	0.43
1:E:65:HIS:CD2	1:E:205:LYS:HE2	2.53	0.43
1:F:333:TYR:CE2	1:F:335:TRP:CE3	3.06	0.43
1:H:109:TRP:NE1	1:H:247:LEU:CD2	2.82	0.43
1:I:183:LEU:HB3	1:I:250:MET:SD	2.58	0.43
1:J:308:ILE:HG21	1:L:192:TYR:HD1	1.83	0.43
1:K:66:ILE:O	1:K:508:GLY:N	2.48	0.43
1:L:183:LEU:HB3	1:L:250:MET:SD	2.58	0.43
1:M:192:TYR:HD1	1:1:308:ILE:HG21	1.83	0.43
1:O:377:ALA:HB2	1:h:311:TRP:CZ3	2.54	0.43
1:O:557:TYR:CZ	1:O:559:PRO:HG3	2.54	0.43
1:P:129:LEU:HD12	1:P:133:CYS:SG	2.58	0.43
1:Q:109:TRP:NE1	1:Q:247:LEU:CD2	2.82	0.43
1:Q:334:SER:N	1:Q:435:THR:OG1	2.51	0.43
1:Q:549:ALA:O	1:S:75:ARG:HD2	2.18	0.43
1:R:133:CYS:HB2	1:R:520:ALA:HB1	2.01	0.43
1:R:334:SER:N	1:R:435:THR:OG1	2.51	0.43
1:S:183:LEU:HB3	1:S:250:MET:SD	2.58	0.43
1:S:334:SER:N	1:S:435:THR:OG1	2.51	0.43
1:T:35:GLY:O	1:T:36:HIS:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:38:THR:HG22	1:T:147:ASN:HB3	2.00	0.43
1:U:263:GLU:HA	1:U:264:SER:HA	1.76	0.43
1:V:397:ASN:N	1:V:398:ASN:HA	2.34	0.43
1:X:33:GLY:C	1:X:36:HIS:HD2	2.17	0.43
1:X:491:THR:OG1	1:X:502:SER:O	2.30	0.43
1:X:557:TYR:CZ	1:X:559:PRO:HG3	2.54	0.43
1:Z:38:THR:HG22	1:Z:147:ASN:HB3	2.00	0.43
1:2:557:TYR:CZ	1:2:559:PRO:HG3	2.54	0.43
1:3:357:GLN:CB	1:3:362:SER:HB3	2.47	0.43
1:3:533:LEU:HD13	1:3:563:MET:HE1	2.01	0.43
1:a:192:TYR:HD1	1:b:308:ILE:HG21	1.83	0.43
1:e:414:GLN:HA	1:e:426:HIS:O	2.17	0.43
1:g:38:THR:HG22	1:g:147:ASN:HB3	2.00	0.43
1:g:109:TRP:NE1	1:g:247:LEU:CD2	2.82	0.43
1:g:146:GLU:HA	1:g:147:ASN:HA	1.78	0.43
1:i:38:THR:HG22	1:i:147:ASN:HB3	2.00	0.43
1:j:133:CYS:HB2	1:j:520:ALA:HB1	2.01	0.43
1:k:183:LEU:HB3	1:k:250:MET:SD	2.58	0.43
1:k:349:ILE:CD1	1:m:324:THR:HG22	2.48	0.43
1:k:379:TYR:CD2	1:k:392:GLU:HG3	2.44	0.43
1:k:439:TYR:CE1	1:l:469:ALA:CB	2.87	0.43
1:l:109:TRP:NE1	1:l:247:LEU:CD2	2.82	0.43
1:m:133:CYS:HB2	1:m:520:ALA:HB1	2.01	0.43
1:n:38:THR:HG22	1:n:147:ASN:HB3	2.00	0.43
1:n:549:ALA:O	1:z:75:ARG:HD2	2.18	0.43
1:n:557:TYR:CZ	1:n:559:PRO:HG3	2.54	0.43
1:q:308:ILE:HG21	1:r:192:TYR:HD1	1.83	0.43
1:q:318:ASN:HA	1:q:319:PRO:HA	1.80	0.43
1:r:381:TRP:O	1:r:381:TRP:CG	2.70	0.43
1:t:38:THR:HG22	1:t:147:ASN:HB3	2.00	0.43
1:t:192:TYR:HD1	1:v:308:ILE:HG21	1.83	0.43
1:u:65:HIS:CD2	1:u:205:LYS:HE2	2.54	0.43
1:u:343:SER:OG	1:u:344:THR:N	2.48	0.43
1:u:523:ARG:O	1:u:523:ARG:HG3	2.18	0.43
1:v:38:THR:HG22	1:v:147:ASN:HB3	2.00	0.43
1:v:533:LEU:HD13	1:v:563:MET:HE1	2.01	0.43
1:x:109:TRP:NE1	1:x:247:LEU:CD2	2.82	0.43
1:x:523:ARG:O	1:x:523:ARG:HG3	2.18	0.43
1:y:65:HIS:CD2	1:y:205:LYS:HE2	2.53	0.43
1:y:334:SER:N	1:y:435:THR:OG1	2.51	0.43
1:z:557:TYR:CZ	1:z:559:PRO:HG3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:33:GLY:C	1:7:36:HIS:HD2	2.17	0.43
1:7:129:LEU:HD12	1:7:133:CYS:SG	2.58	0.43
1:7:397:ASN:N	1:7:398:ASN:HA	2.34	0.43
1:B:146:GLU:HA	1:B:147:ASN:HA	1.79	0.43
1:B:311:TRP:CZ3	1:J:377:ALA:HB2	2.54	0.43
1:C:533:LEU:HD13	1:C:563:MET:HE1	2.00	0.43
1:D:109:TRP:CZ3	1:D:485:LYS:HB2	2.48	0.43
1:E:431:SER:OG	1:E:433:HIS:CD2	2.68	0.43
1:E:557:TYR:CZ	1:E:559:PRO:HG3	2.54	0.43
1:F:334:SER:HG	1:F:435:THR:CB	2.27	0.43
1:G:414:GLN:HA	1:G:426:HIS:O	2.17	0.43
1:G:523:ARG:O	1:G:523:ARG:HG3	2.18	0.43
1:G:557:TYR:CZ	1:G:559:PRO:HG3	2.54	0.43
1:H:65:HIS:CD2	1:H:205:LYS:HE2	2.53	0.43
1:H:133:CYS:HB2	1:H:520:ALA:HB1	2.01	0.43
1:H:192:TYR:HD1	1:Y:308:ILE:HG21	1.83	0.43
1:H:469:ALA:HB2	1:Y:439:TYR:CZ	2.50	0.43
1:J:549:ALA:O	1:0:75:ARG:HD2	2.18	0.43
1:K:58:CYS:SG	1:K:516:MET:HB2	2.59	0.43
1:M:33:GLY:C	1:M:36:HIS:HD2	2.17	0.43
1:M:75:ARG:HD2	1:2:549:ALA:O	2.18	0.43
1:O:146:GLU:HA	1:O:147:ASN:HA	1.79	0.43
1:O:439:TYR:CZ	1:g:469:ALA:HB2	2.50	0.43
1:P:38:THR:HG22	1:P:147:ASN:HB3	2.00	0.43
1:Q:133:CYS:HB2	1:Q:520:ALA:HB1	2.01	0.43
1:Q:139:SER:O	1:Q:269:PHE:N	2.45	0.43
1:Q:146:GLU:HA	1:Q:147:ASN:HA	1.78	0.43
1:S:129:LEU:HD12	1:S:133:CYS:SG	2.57	0.43
1:T:257:ARG:N	1:c:37:SER:HG	2.12	0.43
1:U:557:TYR:CZ	1:U:559:PRO:HG3	2.54	0.43
1:W:58:CYS:SG	1:W:516:MET:HB2	2.59	0.43
1:W:311:TRP:CZ3	1:Y:377:ALA:HB2	2.54	0.43
1:W:333:TYR:CE2	1:W:335:TRP:CE3	3.06	0.43
1:X:58:CYS:SG	1:X:516:MET:HB2	2.59	0.43
1:Y:38:THR:HG22	1:Y:147:ASN:HB3	2.00	0.43
1:Y:101:TYR:CD2	1:Y:101:TYR:O	2.70	0.43
1:0:58:CYS:SG	1:0:516:MET:HB2	2.59	0.43
1:0:357:GLN:CB	1:0:362:SER:HB3	2.48	0.43
1:2:183:LEU:HB3	1:2:250:MET:SD	2.58	0.43
1:2:308:ILE:HG21	1:i:192:TYR:HD1	1.83	0.43
1:3:133:CYS:HB2	1:3:520:ALA:HB1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:381:TRP:O	1:3:381:TRP:CG	2.70	0.43
1:5:38:THR:HG22	1:5:147:ASN:HB3	2.00	0.43
1:5:94:ARG:NE	1:a:423:SER:O	2.52	0.43
1:a:431:SER:OG	1:a:433:HIS:CD2	2.68	0.43
1:b:133:CYS:HB2	1:b:520:ALA:HB1	2.01	0.43
1:c:533:LEU:HD13	1:c:563:MET:HE1	2.00	0.43
1:d:75:ARG:HD2	1:f:549:ALA:O	2.19	0.43
1:d:133:CYS:HB2	1:d:520:ALA:HB1	2.01	0.43
1:f:557:TYR:CZ	1:f:559:PRO:HG3	2.54	0.43
1:h:133:CYS:HB2	1:h:520:ALA:HB1	2.01	0.43
1:h:523:ARG:O	1:h:523:ARG:HG3	2.18	0.43
1:l:557:TYR:CZ	1:l:559:PRO:HG3	2.54	0.43
1:m:66:ILE:O	1:m:508:GLY:N	2.48	0.43
1:n:177:ALA:HB3	1:n:483:PHE:HB2	2.01	0.43
1:n:377:ALA:HB2	1:p:311:TRP:CZ3	2.54	0.43
1:o:109:TRP:NE1	1:o:247:LEU:CD2	2.82	0.43
1:o:308:ILE:HG21	1:p:192:TYR:HD1	1.83	0.43
1:o:439:TYR:CZ	1:p:469:ALA:HB2	2.50	0.43
1:q:183:LEU:HB3	1:q:250:MET:SD	2.58	0.43
1:t:397:ASN:N	1:t:398:ASN:HA	2.34	0.43
1:u:284:ARG:HD2	1:v:346:GLY:CA	2.44	0.43
1:u:311:TRP:CZ3	1:v:377:ALA:HB2	2.54	0.43
1:v:523:ARG:O	1:v:523:ARG:HG3	2.18	0.43
1:v:557:TYR:CZ	1:v:559:PRO:HG3	2.54	0.43
1:x:559:PRO:HA	1:x:560:GLY:HA3	1.80	0.43
1:y:89:GLN:NE2	1:y:229:GLN:HB2	2.28	0.43
1:y:133:CYS:HB2	1:y:520:ALA:HB1	2.01	0.43
1:z:129:LEU:HD12	1:z:133:CYS:SG	2.58	0.43
1:z:183:LEU:HB3	1:z:250:MET:SD	2.58	0.43
1:z:397:ASN:N	1:z:398:ASN:HA	2.34	0.43
1:6:397:ASN:N	1:6:398:ASN:HA	2.34	0.43
1:6:470:HIS:O	1:6:470:HIS:CG	2.69	0.43
1:A:58:CYS:SG	1:A:516:MET:HB2	2.59	0.43
1:A:343:SER:OG	1:A:344:THR:N	2.48	0.43
1:C:66:ILE:O	1:C:508:GLY:N	2.48	0.43
1:C:374:THR:OG1	1:C:396:GLN:O	2.34	0.43
1:C:523:ARG:O	1:C:523:ARG:HG3	2.18	0.43
1:F:109:TRP:NE1	1:F:247:LEU:CD2	2.82	0.43
1:F:557:TYR:CZ	1:F:559:PRO:HG3	2.54	0.43
1:H:379:TYR:CD2	1:H:392:GLU:HG3	2.44	0.43
1:H:523:ARG:O	1:H:523:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:38:THR:HG22	1:I:147:ASN:HB3	2.00	0.43
1:I:58:CYS:SG	1:I:516:MET:HB2	2.59	0.43
1:I:397:ASN:N	1:I:398:ASN:HA	2.34	0.43
1:J:38:THR:HG22	1:J:147:ASN:HB3	2.00	0.43
1:J:115:ASN:O	1:J:454:ILE:HD12	2.19	0.43
1:J:397:ASN:N	1:J:398:ASN:HA	2.34	0.43
1:J:557:TYR:CZ	1:J:559:PRO:HG3	2.54	0.43
1:K:377:ALA:HB2	1:7:311:TRP:CZ3	2.54	0.43
1:L:58:CYS:SG	1:L:516:MET:HB2	2.59	0.43
1:M:37:SER:HG	1:N:257:ARG:N	2.10	0.43
1:M:133:CYS:HB2	1:M:520:ALA:HB1	2.01	0.43
1:M:431:SER:OG	1:M:433:HIS:CD2	2.68	0.43
1:O:75:ARG:HD2	1:3:549:ALA:O	2.19	0.43
1:O:349:ILE:CD1	1:h:324:THR:HG22	2.48	0.43
1:P:65:HIS:CD2	1:P:205:LYS:HE2	2.53	0.43
1:P:115:ASN:O	1:P:454:ILE:HD12	2.19	0.43
1:P:177:ALA:HB3	1:P:483:PHE:HB2	2.01	0.43
1:Q:115:ASN:O	1:Q:454:ILE:HD12	2.19	0.43
1:Q:177:ALA:HB3	1:Q:483:PHE:HB2	2.01	0.43
1:Q:298:GLU:HA	1:Q:299:GLY:HA2	1.56	0.43
1:Q:557:TYR:CZ	1:Q:559:PRO:HG3	2.54	0.43
1:S:311:TRP:CZ3	1:U:377:ALA:HB2	2.54	0.43
1:S:397:ASN:N	1:S:398:ASN:HA	2.34	0.43
1:U:133:CYS:HB2	1:U:520:ALA:HB1	2.01	0.43
1:U:397:ASN:N	1:U:398:ASN:HA	2.34	0.43
1:V:311:TRP:CZ3	1:4:377:ALA:HB2	2.54	0.43
1:V:334:SER:HG	1:V:435:THR:CB	2.28	0.43
1:X:357:GLN:CB	1:X:362:SER:HB3	2.48	0.43
1:X:533:LEU:HD13	1:X:563:MET:HE1	2.01	0.43
1:Y:115:ASN:O	1:Y:454:ILE:HD12	2.19	0.43
1:Z:308:ILE:HG21	1:x:192:TYR:HD1	1.83	0.43
1:0:308:ILE:HG21	1:7:192:TYR:HD1	1.83	0.43
1:0:557:TYR:CZ	1:0:559:PRO:HG3	2.54	0.43
1:1:65:HIS:CD2	1:1:205:LYS:HE2	2.53	0.43
1:1:533:LEU:HD13	1:1:563:MET:HE1	2.01	0.43
1:3:177:ALA:HB3	1:3:483:PHE:HB2	2.01	0.43
1:3:311:TRP:CZ3	1:f:377:ALA:HB2	2.54	0.43
1:3:449:TYR:CD1	1:3:450:PRO:HA	2.54	0.43
1:4:58:CYS:SG	1:4:516:MET:HB2	2.59	0.43
1:5:89:GLN:NE2	1:5:229:GLN:HB2	2.29	0.43
1:5:115:ASN:O	1:5:454:ILE:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:377:ALA:HB2	1:a:311:TRP:CZ3	2.54	0.43
1:5:397:ASN:N	1:5:398:ASN:HA	2.34	0.43
1:5:557:TYR:CZ	1:5:559:PRO:HG3	2.54	0.43
1:a:318:ASN:HA	1:a:319:PRO:HA	1.81	0.43
1:a:533:LEU:HD13	1:a:563:MET:HE1	2.00	0.43
1:b:58:CYS:SG	1:b:516:MET:HB2	2.59	0.43
1:b:245:THR:HA	1:b:246:PRO:HD2	1.50	0.43
1:e:65:HIS:CD2	1:e:205:LYS:HE2	2.53	0.43
1:e:374:THR:OG1	1:e:396:GLN:O	2.34	0.43
1:e:533:LEU:HD13	1:e:563:MET:HE1	2.00	0.43
1:f:183:LEU:HB3	1:f:250:MET:SD	2.58	0.43
1:g:177:ALA:HB3	1:g:483:PHE:HB2	2.01	0.43
1:g:557:TYR:CZ	1:g:559:PRO:HG3	2.54	0.43
1:h:58:CYS:SG	1:h:516:MET:HB2	2.59	0.43
1:h:177:ALA:HB3	1:h:483:PHE:HB2	2.01	0.43
1:k:439:TYR:CZ	1:l:469:ALA:HB2	2.50	0.43
1:k:549:ALA:O	1:s:75:ARG:HD2	2.18	0.43
1:m:58:CYS:SG	1:m:516:MET:HB2	2.59	0.43
1:n:109:TRP:NE1	1:n:247:LEU:CD2	2.82	0.43
1:n:133:CYS:HB2	1:n:520:ALA:HB1	2.01	0.43
1:o:66:ILE:O	1:o:508:GLY:N	2.48	0.43
1:o:557:TYR:CZ	1:o:559:PRO:HG3	2.54	0.43
1:p:557:TYR:CZ	1:p:559:PRO:HG3	2.54	0.43
1:s:115:ASN:O	1:s:454:ILE:HD12	2.19	0.43
1:s:177:ALA:HB3	1:s:483:PHE:HB2	2.01	0.43
1:t:58:CYS:SG	1:t:516:MET:HB2	2.59	0.43
1:t:146:GLU:HA	1:t:147:ASN:HA	1.78	0.43
1:t:311:TRP:CZ3	1:u:377:ALA:HB2	2.54	0.43
1:v:334:SER:HG	1:v:435:THR:CB	2.27	0.43
1:w:58:CYS:SG	1:w:516:MET:HB2	2.59	0.43
1:w:133:CYS:HB2	1:w:520:ALA:HB1	2.01	0.43
1:w:333:TYR:CE2	1:w:335:TRP:CE3	3.06	0.43
1:x:133:CYS:HB2	1:x:520:ALA:HB1	2.01	0.43
1:x:357:GLN:CB	1:x:362:SER:HB3	2.48	0.43
1:y:38:THR:HG22	1:y:147:ASN:HB3	2.00	0.43
1:z:334:SER:N	1:z:435:THR:OG1	2.51	0.43
1:6:133:CYS:HB2	1:6:520:ALA:HB1	2.01	0.43
1:6:134:ARG:O	1:6:276:LEU:N	2.32	0.43
1:6:557:TYR:CZ	1:6:559:PRO:HG3	2.54	0.43
1:A:557:TYR:CZ	1:A:559:PRO:HG3	2.54	0.43
1:B:115:ASN:O	1:B:454:ILE:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:397:ASN:N	1:B:398:ASN:HA	2.34	0.43
1:C:38:THR:HG22	1:C:147:ASN:HB3	2.00	0.43
1:C:65:HIS:CD2	1:C:205:LYS:HE2	2.54	0.43
1:D:245:THR:HA	1:D:246:PRO:HD2	1.50	0.43
1:E:311:TRP:CZ3	1:Q:377:ALA:HB2	2.54	0.43
1:E:439:TYR:CZ	1:Q:469:ALA:HB2	2.50	0.43
1:F:58:CYS:SG	1:F:516:MET:HB2	2.59	0.43
1:G:311:TRP:CZ3	1:I:377:ALA:HB2	2.54	0.43
1:H:334:SER:N	1:H:435:THR:OG1	2.51	0.43
1:H:357:GLN:CB	1:H:362:SER:HB3	2.48	0.43
1:I:334:SER:HG	1:I:435:THR:CB	2.26	0.43
1:J:37:SER:HG	1:0:257:ARG:N	2.10	0.43
1:M:374:THR:OG1	1:M:396:GLN:O	2.34	0.43
1:O:35:GLY:C	1:P:257:ARG:HH11	2.17	0.43
1:O:183:LEU:HB3	1:O:250:MET:SD	2.58	0.43
1:O:397:ASN:N	1:O:398:ASN:HA	2.34	0.43
1:P:89:GLN:NE2	1:P:229:GLN:HB2	2.28	0.43
1:P:109:TRP:NE1	1:P:247:LEU:CD2	2.82	0.43
1:P:397:ASN:N	1:P:398:ASN:HA	2.34	0.43
1:Q:58:CYS:SG	1:Q:516:MET:HB2	2.59	0.43
1:R:38:THR:HG22	1:R:147:ASN:HB3	2.00	0.43
1:V:192:TYR:HD1	1:X:308:ILE:HG21	1.83	0.43
1:V:390:MET:HA	1:V:391:ARG:HA	1.72	0.43
1:W:146:GLU:HA	1:W:147:ASN:HA	1.79	0.43
1:X:177:ALA:HB3	1:X:483:PHE:HB2	2.01	0.43
1:Y:557:TYR:CZ	1:Y:559:PRO:HG3	2.54	0.43
1:Z:115:ASN:O	1:Z:454:ILE:HD12	2.19	0.43
1:Z:377:ALA:HB2	1:w:311:TRP:CZ3	2.54	0.43
1:0:109:TRP:NE1	1:0:247:LEU:CD2	2.82	0.43
1:0:177:ALA:HB3	1:0:483:PHE:HB2	2.01	0.43
1:0:533:LEU:HD13	1:0:563:MET:HE1	2.00	0.43
1:1:59:HIS:HE1	1:1:515:LYS:HZ1	1.66	0.43
1:1:139:SER:O	1:1:269:PHE:N	2.45	0.43
1:2:377:ALA:HB2	1:j:311:TRP:CZ3	2.54	0.43
1:3:38:THR:HG22	1:3:147:ASN:HB3	2.00	0.43
1:c:177:ALA:HB3	1:c:483:PHE:HB2	2.01	0.43
1:d:431:SER:OG	1:d:433:HIS:CD2	2.68	0.43
1:e:38:THR:HG22	1:e:147:ASN:HB3	2.00	0.43
1:f:75:ARG:HD2	1:h:549:ALA:O	2.18	0.43
1:g:58:CYS:SG	1:g:516:MET:HB2	2.59	0.43
1:i:333:TYR:CE2	1:i:335:TRP:CE3	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:38:THR:HG22	1:j:147:ASN:HB3	2.00	0.43
1:j:134:ARG:O	1:j:276:LEU:N	2.32	0.43
1:j:177:ALA:HB3	1:j:483:PHE:HB2	2.01	0.43
1:j:449:TYR:CD1	1:j:450:PRO:HA	2.54	0.43
1:k:35:GLY:C	1:s:257:ARG:HH11	2.17	0.43
1:k:333:TYR:CE2	1:k:335:TRP:CE3	3.06	0.43
1:k:377:ALA:HB2	1:m:311:TRP:CZ3	2.54	0.43
1:k:449:TYR:CD1	1:k:450:PRO:HA	2.54	0.43
1:l:58:CYS:SG	1:l:516:MET:HB2	2.59	0.43
1:l:177:ALA:HB3	1:l:483:PHE:HB2	2.01	0.43
1:m:177:ALA:HB3	1:m:483:PHE:HB2	2.01	0.43
1:n:58:CYS:SG	1:n:516:MET:HB2	2.59	0.43
1:n:115:ASN:O	1:n:454:ILE:HD12	2.19	0.43
1:n:523:ARG:O	1:n:523:ARG:HG3	2.18	0.43
1:o:58:CYS:SG	1:o:516:MET:HB2	2.59	0.43
1:p:225:ASP:CB	1:p:226:ARG:HB2	2.39	0.43
1:p:431:SER:OG	1:p:433:HIS:CD2	2.68	0.43
1:p:449:TYR:CD1	1:p:450:PRO:HA	2.54	0.43
1:s:65:HIS:CD2	1:s:205:LYS:HE2	2.53	0.43
1:s:109:TRP:NE1	1:s:247:LEU:CD2	2.82	0.43
1:s:390:MET:HA	1:s:391:ARG:HA	1.72	0.43
1:s:397:ASN:N	1:s:398:ASN:HA	2.34	0.43
1:u:58:CYS:SG	1:u:516:MET:HB2	2.59	0.43
1:u:557:TYR:CZ	1:u:559:PRO:HG3	2.54	0.43
1:v:414:GLN:HA	1:v:426:HIS:O	2.17	0.43
1:w:37:SER:HG	1:7:257:ARG:N	2.12	0.43
1:x:65:HIS:CD2	1:x:205:LYS:HE2	2.54	0.43
1:y:245:THR:HA	1:y:246:PRO:HD2	1.50	0.43
1:z:311:TRP:CZ3	1:6:377:ALA:HB2	2.54	0.43
1:6:115:ASN:O	1:6:454:ILE:HD12	2.19	0.43
1:6:449:TYR:CD1	1:6:450:PRO:HA	2.54	0.43
1:7:65:HIS:CD2	1:7:205:LYS:HE2	2.53	0.43
1:A:100:SER:HB2	1:I:322:ALA:HB3	2.01	0.43
1:A:112:LEU:HD11	1:A:482:LEU:HD23	2.01	0.43
1:A:158:ALA:HA	1:B:161:GLN:HB3	2.01	0.43
1:B:192:TYR:HD1	1:L:308:ILE:HG21	1.83	0.43
1:B:533:LEU:HD13	1:B:563:MET:HE1	2.00	0.43
1:D:318:ASN:HA	1:D:319:PRO:HA	1.81	0.43
1:D:431:SER:OG	1:D:433:HIS:CD2	2.68	0.43
1:F:66:ILE:O	1:F:508:GLY:N	2.48	0.43
1:G:109:TRP:NE1	1:G:247:LEU:CD2	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:177:ALA:HB3	1:G:483:PHE:HB2	2.01	0.43
1:H:311:TRP:CZ3	1:W:377:ALA:HB2	2.54	0.43
1:K:533:LEU:HD13	1:K:563:MET:HE1	2.00	0.43
1:K:549:ALA:O	1:L:75:ARG:HD2	2.18	0.43
1:M:115:ASN:O	1:M:454:ILE:HD12	2.19	0.43
1:N:58:CYS:SG	1:N:516:MET:HB2	2.59	0.43
1:N:146:GLU:HA	1:N:147:ASN:HA	1.79	0.43
1:O:449:TYR:CD1	1:O:450:PRO:HA	2.54	0.43
1:O:533:LEU:HD13	1:O:563:MET:HE1	2.01	0.43
1:P:390:MET:HA	1:P:391:ARG:HA	1.72	0.43
1:Q:43:ASN:HD22	1:Q:200:PRO:HB3	1.84	0.43
1:Q:449:TYR:CD1	1:Q:450:PRO:HA	2.54	0.43
1:R:109:TRP:NE1	1:R:247:LEU:CD2	2.82	0.43
1:S:38:THR:HG22	1:S:147:ASN:HB3	2.00	0.43
1:T:192:TYR:HD1	1:f:308:ILE:HG21	1.83	0.43
1:T:333:TYR:CE2	1:T:335:TRP:CE3	3.06	0.43
1:U:38:THR:HG22	1:U:147:ASN:HB3	2.00	0.43
1:U:109:TRP:NE1	1:U:247:LEU:CD2	2.82	0.43
1:U:390:MET:HA	1:U:391:ARG:HA	1.72	0.43
1:U:449:TYR:CD1	1:U:450:PRO:HA	2.54	0.43
1:U:460:ASP:OD1	1:U:460:ASP:N	2.50	0.43
1:V:38:THR:HG22	1:V:147:ASN:HB3	2.00	0.43
1:V:112:LEU:HD11	1:V:482:LEU:HD23	2.01	0.43
1:V:115:ASN:O	1:V:454:ILE:HD12	2.19	0.43
1:W:390:MET:HA	1:W:391:ARG:HA	1.72	0.43
1:X:109:TRP:NE1	1:X:247:LEU:CD2	2.82	0.43
1:Y:449:TYR:CD1	1:Y:450:PRO:HA	2.54	0.43
1:Z:557:TYR:CZ	1:Z:559:PRO:HG3	2.54	0.43
1:0:33:GLY:C	1:0:36:HIS:HD2	2.17	0.43
1:0:146:GLU:HA	1:0:147:ASN:HA	1.78	0.43
1:0:334:SER:N	1:0:435:THR:OG1	2.51	0.43
1:0:379:TYR:CE1	1:0:451:TRP:CE2	3.07	0.43
1:0:491:THR:OG1	1:0:502:SER:O	2.30	0.43
1:3:397:ASN:N	1:3:398:ASN:HA	2.34	0.43
1:4:533:LEU:HD13	1:4:563:MET:HE1	2.01	0.43
1:5:316:ARG:HH22	1:b:98:ASN:ND2	2.17	0.43
1:5:528:TRP:HB3	1:b:246:PRO:HG3	1.88	0.43
1:a:115:ASN:O	1:a:454:ILE:HD12	2.19	0.43
1:a:397:ASN:N	1:a:398:ASN:HA	2.34	0.43
1:c:66:ILE:O	1:c:508:GLY:N	2.48	0.43
1:d:43:ASN:HD22	1:d:200:PRO:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:374:THR:OG1	1:d:396:GLN:O	2.34	0.43
1:e:43:ASN:HD22	1:e:200:PRO:HB3	1.84	0.43
1:e:523:ARG:O	1:e:523:ARG:HG3	2.18	0.43
1:i:109:TRP:NE1	1:i:247:LEU:CD2	2.82	0.43
1:j:397:ASN:N	1:j:398:ASN:HA	2.34	0.43
1:k:397:ASN:N	1:k:398:ASN:HA	2.34	0.43
1:l:112:LEU:HD11	1:l:482:LEU:HD23	2.01	0.43
1:l:397:ASN:N	1:l:398:ASN:HA	2.34	0.43
1:n:43:ASN:HD22	1:n:200:PRO:HB3	1.84	0.43
1:n:139:SER:O	1:n:269:PHE:N	2.45	0.43
1:q:431:SER:OG	1:q:433:HIS:CD2	2.68	0.43
1:r:112:LEU:HD11	1:r:482:LEU:HD23	2.01	0.43
1:r:115:ASN:O	1:r:454:ILE:HD12	2.19	0.43
1:s:38:THR:HG22	1:s:147:ASN:HB3	2.00	0.43
1:t:334:SER:HG	1:t:435:THR:CB	2.26	0.43
1:t:377:ALA:HB2	1:v:311:TRP:CZ3	2.54	0.43
1:u:109:TRP:NE1	1:u:247:LEU:CD2	2.82	0.43
1:u:112:LEU:HD11	1:u:482:LEU:HD23	2.01	0.43
1:v:177:ALA:HB3	1:v:483:PHE:HB2	2.01	0.43
1:w:357:GLN:CB	1:w:362:SER:HB3	2.48	0.43
1:w:549:ALA:O	1:7:75:ARG:HD2	2.18	0.43
1:x:334:SER:N	1:x:435:THR:OG1	2.51	0.43
1:z:58:CYS:SG	1:z:516:MET:HB2	2.59	0.43
1:z:523:ARG:O	1:z:523:ARG:HG3	2.18	0.43
1:z:561:ARG:HA	1:z:561:ARG:HD3	1.88	0.43
1:6:109:TRP:NE1	1:6:247:LEU:CD2	2.82	0.43
1:6:263:GLU:HA	1:6:264:SER:HA	1.76	0.43
1:7:115:ASN:O	1:7:454:ILE:HD12	2.19	0.43
1:A:109:TRP:NE1	1:A:247:LEU:CD2	2.82	0.42
1:C:43:ASN:HD22	1:C:200:PRO:HB3	1.84	0.42
1:C:133:CYS:HB2	1:C:520:ALA:HB1	2.01	0.42
1:C:333:TYR:CE2	1:C:335:TRP:CE3	3.06	0.42
1:D:115:ASN:O	1:D:454:ILE:HD12	2.19	0.42
1:E:115:ASN:O	1:E:454:ILE:HD12	2.19	0.42
1:E:354:PRO:HA	1:E:373:ALA:HB3	2.01	0.42
1:E:449:TYR:CD1	1:E:450:PRO:HA	2.54	0.42
1:E:559:PRO:HA	1:E:560:GLY:HA3	1.80	0.42
1:E:561:ARG:HA	1:E:561:ARG:HD3	1.88	0.42
1:F:75:ARG:HD2	1:R:549:ALA:O	2.18	0.42
1:G:112:LEU:HD11	1:G:482:LEU:HD23	2.01	0.42
1:G:245:THR:HA	1:G:246:PRO:HD2	1.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:379:TYR:CE1	1:G:451:TRP:CE2	3.07	0.42
1:H:58:CYS:SG	1:H:516:MET:HB2	2.59	0.42
1:H:559:PRO:HA	1:H:560:GLY:HA3	1.80	0.42
1:J:35:GLY:O	1:J:36:HIS:C	2.60	0.42
1:J:311:TRP:CZ3	1:L:377:ALA:HB2	2.54	0.42
1:K:75:ARG:HD2	1:6:549:ALA:O	2.18	0.42
1:K:263:GLU:HA	1:K:264:SER:HA	1.76	0.42
1:M:43:ASN:HD22	1:M:200:PRO:HB3	1.84	0.42
1:N:112:LEU:HD11	1:N:482:LEU:HD23	2.01	0.42
1:N:115:ASN:O	1:N:454:ILE:HD12	2.19	0.42
1:N:559:PRO:HA	1:N:560:GLY:HA3	1.80	0.42
1:O:333:TYR:CE2	1:O:335:TRP:CE3	3.06	0.42
1:O:462:THR:OG1	1:h:443:ASP:OD1	2.37	0.42
1:P:449:TYR:CD1	1:P:450:PRO:HA	2.54	0.42
1:Q:382:ASN:OD1	1:Q:392:GLU:HG2	2.19	0.42
1:Q:523:ARG:O	1:Q:523:ARG:HG3	2.18	0.42
1:R:177:ALA:HB3	1:R:483:PHE:HB2	2.01	0.42
1:S:58:CYS:SG	1:S:516:MET:HB2	2.59	0.42
1:S:523:ARG:O	1:S:523:ARG:HG3	2.18	0.42
1:T:109:TRP:NE1	1:T:247:LEU:CD2	2.82	0.42
1:U:115:ASN:O	1:U:454:ILE:HD12	2.19	0.42
1:U:533:LEU:HD13	1:U:563:MET:HE1	2.01	0.42
1:U:549:ALA:O	1:4:75:ARG:HD2	2.18	0.42
1:W:133:CYS:HB2	1:W:520:ALA:HB1	2.01	0.42
1:W:557:TYR:CZ	1:W:559:PRO:HG3	2.54	0.42
1:X:334:SER:N	1:X:435:THR:OG1	2.51	0.42
1:X:379:TYR:CE1	1:X:451:TRP:CE2	3.07	0.42
1:X:397:ASN:N	1:X:398:ASN:HA	2.34	0.42
1:Y:33:GLY:C	1:Y:36:HIS:HD2	2.17	0.42
1:Z:33:GLY:C	1:Z:36:HIS:HD2	2.17	0.42
1:Z:449:TYR:CD1	1:Z:450:PRO:HA	2.54	0.42
1:Z:462:THR:OG1	1:w:443:ASP:OD1	2.37	0.42
1:1:66:ILE:O	1:1:508:GLY:N	2.48	0.42
1:1:177:ALA:HB3	1:1:483:PHE:HB2	2.01	0.42
1:2:382:ASN:OD1	1:2:392:GLU:HG2	2.19	0.42
1:3:35:GLY:O	1:3:36:HIS:C	2.60	0.42
1:4:109:TRP:NE1	1:4:247:LEU:CD2	2.82	0.42
1:4:559:PRO:HA	1:4:560:GLY:HA3	1.80	0.42
1:5:75:ARG:HD2	1:t:549:ALA:O	2.19	0.42
1:c:65:HIS:CD2	1:c:205:LYS:HE2	2.54	0.42
1:c:139:SER:O	1:c:269:PHE:N	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:33:GLY:C	1:d:36:HIS:HD2	2.17	0.42
1:d:379:TYR:CE1	1:d:451:TRP:CE2	3.07	0.42
1:e:133:CYS:HB2	1:e:520:ALA:HB1	2.01	0.42
1:e:333:TYR:CE2	1:e:335:TRP:CE3	3.06	0.42
1:f:516:MET:O	1:f:517:ILE:HD13	2.19	0.42
1:g:112:LEU:HD11	1:g:482:LEU:HD23	2.01	0.42
1:g:397:ASN:N	1:g:398:ASN:HA	2.34	0.42
1:g:511:TRP:HE1	1:m:173:LEU:CD1	2.29	0.42
1:h:382:ASN:OD1	1:h:392:GLU:HG2	2.19	0.42
1:i:250:MET:HB2	1:i:251:ILE:HG23	2.01	0.42
1:k:379:TYR:CE1	1:k:451:TRP:CE2	3.07	0.42
1:k:533:LEU:HD13	1:k:563:MET:HE1	2.01	0.42
1:n:382:ASN:OD1	1:n:392:GLU:HG2	2.19	0.42
1:n:449:TYR:CD1	1:n:450:PRO:HA	2.54	0.42
1:n:469:ALA:HB2	1:p:439:TYR:CZ	2.50	0.42
1:o:397:ASN:N	1:o:398:ASN:HA	2.34	0.42
1:p:115:ASN:O	1:p:454:ILE:HD12	2.19	0.42
1:p:354:PRO:HA	1:p:373:ALA:HB3	2.01	0.42
1:q:115:ASN:O	1:q:454:ILE:HD12	2.19	0.42
1:q:133:CYS:HB2	1:q:520:ALA:HB1	2.01	0.42
1:q:354:PRO:HA	1:q:373:ALA:HB3	2.01	0.42
1:r:58:CYS:SG	1:r:516:MET:HB2	2.59	0.42
1:r:357:GLN:CB	1:r:362:SER:HB3	2.47	0.42
1:s:89:GLN:NE2	1:s:229:GLN:HB2	2.28	0.42
1:t:357:GLN:CB	1:t:362:SER:HB3	2.48	0.42
1:v:112:LEU:HD11	1:v:482:LEU:HD23	2.01	0.42
1:w:377:ALA:HB2	1:x:311:TRP:CZ3	2.54	0.42
1:x:43:ASN:HD22	1:x:200:PRO:HB3	1.84	0.42
1:x:354:PRO:HA	1:x:373:ALA:HB3	2.01	0.42
1:y:109:TRP:NE1	1:y:247:LEU:CD2	2.82	0.42
1:y:250:MET:HB2	1:y:251:ILE:HG23	2.02	0.42
1:z:38:THR:HG22	1:z:147:ASN:HB3	2.00	0.42
1:6:334:SER:N	1:6:435:THR:OG1	2.51	0.42
1:6:460:ASP:OD1	1:6:460:ASP:N	2.50	0.42
1:7:112:LEU:HD11	1:7:482:LEU:HD23	2.01	0.42
1:A:397:ASN:N	1:A:398:ASN:HA	2.34	0.42
1:B:43:ASN:HD22	1:B:200:PRO:HB3	1.84	0.42
1:B:318:ASN:HA	1:B:319:PRO:HA	1.81	0.42
1:C:58:CYS:SG	1:C:516:MET:HB2	2.59	0.42
1:D:543:GLN:HA	1:D:546:VAL:HG12	2.02	0.42
1:E:382:ASN:OD1	1:E:392:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:543:GLN:HA	1:E:546:VAL:HG12	2.02	0.42
1:F:250:MET:HB2	1:F:251:ILE:HG23	2.02	0.42
1:G:333:TYR:CE2	1:G:335:TRP:CE3	3.06	0.42
1:G:354:PRO:HA	1:G:373:ALA:HB3	2.02	0.42
1:H:43:ASN:HD22	1:H:200:PRO:HB3	1.84	0.42
1:H:354:PRO:HA	1:H:373:ALA:HB3	2.02	0.42
1:H:439:TYR:CZ	1:W:469:ALA:HB2	2.50	0.42
1:I:431:SER:OG	1:I:433:HIS:CD2	2.68	0.42
1:I:557:TYR:CZ	1:I:559:PRO:HG3	2.54	0.42
1:J:449:TYR:CD1	1:J:450:PRO:HA	2.54	0.42
1:K:38:THR:HG22	1:K:147:ASN:HB3	2.00	0.42
1:K:109:TRP:NE1	1:K:247:LEU:CD2	2.82	0.42
1:K:177:ALA:HB3	1:K:483:PHE:HB2	2.01	0.42
1:L:543:GLN:HA	1:L:546:VAL:HG12	2.02	0.42
1:M:379:TYR:CE1	1:M:451:TRP:CE2	3.07	0.42
1:M:382:ASN:OD1	1:M:392:GLU:HG2	2.19	0.42
1:M:523:ARG:O	1:M:523:ARG:HG3	2.18	0.42
1:N:109:TRP:O	1:N:209:TYR:HB3	2.20	0.42
1:O:379:TYR:CE1	1:O:451:TRP:CE2	3.07	0.42
1:O:523:ARG:O	1:O:523:ARG:HG3	2.18	0.42
1:P:516:MET:O	1:P:517:ILE:HD13	2.19	0.42
1:Q:37:SER:HG	1:S:257:ARG:N	2.13	0.42
1:Q:65:HIS:CD2	1:Q:205:LYS:HE2	2.53	0.42
1:Q:379:TYR:CE1	1:Q:451:TRP:CE2	3.07	0.42
1:R:523:ARG:O	1:R:523:ARG:HG3	2.18	0.42
1:S:112:LEU:HD11	1:S:482:LEU:HD23	2.02	0.42
1:T:250:MET:HB2	1:T:251:ILE:HG23	2.02	0.42
1:U:58:CYS:SG	1:U:516:MET:HB2	2.59	0.42
1:U:109:TRP:HZ3	1:U:485:LYS:CB	2.27	0.42
1:V:65:HIS:CD2	1:V:205:LYS:HE2	2.54	0.42
1:V:75:ARG:HD2	1:W:549:ALA:O	2.18	0.42
1:W:43:ASN:HD22	1:W:200:PRO:HB3	1.84	0.42
1:W:357:GLN:CB	1:W:362:SER:HB3	2.48	0.42
1:X:43:ASN:HD22	1:X:200:PRO:HB3	1.84	0.42
1:X:134:ARG:O	1:X:276:LEU:N	2.32	0.42
1:Y:112:LEU:HD11	1:Y:482:LEU:HD23	2.01	0.42
1:Y:382:ASN:OD1	1:Y:392:GLU:HG2	2.19	0.42
1:Y:516:MET:O	1:Y:517:ILE:HD13	2.20	0.42
1:Z:112:LEU:HD11	1:Z:482:LEU:HD23	2.01	0.42
1:Z:382:ASN:OD1	1:Z:392:GLU:HG2	2.19	0.42
1:Z:516:MET:O	1:Z:517:ILE:HD13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:43:ASN:HD22	1:0:200:PRO:HB3	1.84	0.42
1:0:318:ASN:HA	1:0:319:PRO:HA	1.81	0.42
1:0:397:ASN:N	1:0:398:ASN:HA	2.34	0.42
1:1:109:TRP:NE1	1:1:247:LEU:CD2	2.82	0.42
1:1:516:MET:O	1:1:517:ILE:HD13	2.20	0.42
1:1:543:GLN:HA	1:1:546:VAL:HG12	2.02	0.42
1:2:516:MET:O	1:2:517:ILE:HD13	2.20	0.42
1:2:523:ARG:O	1:2:523:ARG:HG3	2.18	0.42
1:5:35:GLY:O	1:5:36:HIS:C	2.60	0.42
1:5:412:ALA:O	1:b:340:ILE:N	2.51	0.42
1:5:449:TYR:CD1	1:5:450:PRO:HA	2.54	0.42
1:a:43:ASN:HD22	1:a:200:PRO:HB3	1.84	0.42
1:b:543:GLN:HA	1:b:546:VAL:HG12	2.02	0.42
1:c:379:TYR:CE1	1:c:451:TRP:CE2	3.07	0.42
1:c:516:MET:O	1:c:517:ILE:HD13	2.20	0.42
1:d:115:ASN:O	1:d:454:ILE:HD12	2.19	0.42
1:d:397:ASN:N	1:d:398:ASN:HA	2.34	0.42
1:e:58:CYS:SG	1:e:516:MET:HB2	2.59	0.42
1:e:449:TYR:CD1	1:e:450:PRO:HA	2.54	0.42
1:f:382:ASN:OD1	1:f:392:GLU:HG2	2.19	0.42
1:g:115:ASN:O	1:g:454:ILE:HD12	2.19	0.42
1:h:173:LEU:CD1	1:l:511:TRP:HE1	2.29	0.42
1:i:382:ASN:OD1	1:i:392:GLU:HG2	2.19	0.42
1:j:382:ASN:OD1	1:j:392:GLU:HG2	2.19	0.42
1:k:523:ARG:O	1:k:523:ARG:HG3	2.18	0.42
1:m:382:ASN:OD1	1:m:392:GLU:HG2	2.19	0.42
1:m:557:TYR:CZ	1:m:559:PRO:HG3	2.54	0.42
1:n:65:HIS:CD2	1:n:205:LYS:HE2	2.53	0.42
1:n:109:TRP:O	1:n:209:TYR:HB3	2.20	0.42
1:n:146:GLU:HA	1:n:147:ASN:HA	1.79	0.42
1:n:379:TYR:CE1	1:n:451:TRP:CE2	3.07	0.42
1:n:543:GLN:HA	1:n:546:VAL:HG12	2.02	0.42
1:o:75:ARG:HD2	1:y:549:ALA:O	2.18	0.42
1:o:311:TRP:CZ3	1:p:377:ALA:HB2	2.54	0.42
1:p:382:ASN:OD1	1:p:392:GLU:HG2	2.20	0.42
1:p:543:GLN:HA	1:p:546:VAL:HG12	2.01	0.42
1:q:557:TYR:CZ	1:q:559:PRO:HG3	2.54	0.42
1:r:109:TRP:O	1:r:209:TYR:HB3	2.20	0.42
1:s:449:TYR:CD1	1:s:450:PRO:HA	2.54	0.42
1:s:516:MET:O	1:s:517:ILE:HD13	2.20	0.42
1:t:379:TYR:CE1	1:t:451:TRP:CE2	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:43:ASN:HD22	1:u:200:PRO:HB3	1.84	0.42
1:u:379:TYR:CE1	1:u:451:TRP:CE2	3.07	0.42
1:u:397:ASN:N	1:u:398:ASN:HA	2.34	0.42
1:v:109:TRP:NE1	1:v:247:LEU:CD2	2.82	0.42
1:v:333:TYR:CE2	1:v:335:TRP:CE3	3.06	0.42
1:v:354:PRO:HA	1:v:373:ALA:HB3	2.02	0.42
1:v:379:TYR:CE1	1:v:451:TRP:CE2	3.07	0.42
1:w:68:MET:SD	1:w:503:ARG:NE	2.92	0.42
1:w:146:GLU:HA	1:w:147:ASN:HA	1.79	0.42
1:w:516:MET:O	1:w:517:ILE:HD13	2.20	0.42
1:w:557:TYR:CZ	1:w:559:PRO:HG3	2.54	0.42
1:x:58:CYS:SG	1:x:516:MET:HB2	2.59	0.42
1:x:543:GLN:HA	1:x:546:VAL:HG12	2.02	0.42
1:y:177:ALA:HB3	1:y:483:PHE:HB2	2.01	0.42
1:y:443:ASP:OD1	1:z:462:THR:OG1	2.37	0.42
1:y:523:ARG:O	1:y:523:ARG:HG3	2.18	0.42
1:z:112:LEU:HD11	1:z:482:LEU:HD23	2.01	0.42
1:z:449:TYR:CD1	1:z:450:PRO:HA	2.54	0.42
1:6:38:THR:HG22	1:6:147:ASN:HB3	2.00	0.42
1:6:516:MET:O	1:6:517:ILE:HD13	2.20	0.42
1:7:38:THR:HG22	1:7:147:ASN:HB3	2.00	0.42
1:A:43:ASN:HD22	1:A:200:PRO:HB3	1.84	0.42
1:A:316:ARG:HH22	1:G:98:ASN:ND2	2.18	0.42
1:A:379:TYR:CE1	1:A:451:TRP:CE2	3.07	0.42
1:B:109:TRP:NE1	1:B:247:LEU:CD2	2.82	0.42
1:B:245:THR:HA	1:B:246:PRO:HD2	1.50	0.42
1:D:109:TRP:NE1	1:D:247:LEU:CD2	2.82	0.42
1:D:133:CYS:HB2	1:D:520:ALA:HB1	2.01	0.42
1:D:354:PRO:HA	1:D:373:ALA:HB3	2.02	0.42
1:D:449:TYR:CD1	1:D:450:PRO:HA	2.54	0.42
1:E:377:ALA:HB2	1:F:311:TRP:CZ3	2.54	0.42
1:F:397:ASN:N	1:F:398:ASN:HA	2.34	0.42
1:H:115:ASN:O	1:H:454:ILE:HD12	2.19	0.42
1:H:382:ASN:OD1	1:H:392:GLU:HG2	2.19	0.42
1:H:543:GLN:HA	1:H:546:VAL:HG12	2.02	0.42
1:I:112:LEU:HD11	1:I:482:LEU:HD23	2.01	0.42
1:I:357:GLN:CB	1:I:362:SER:HB3	2.48	0.42
1:I:379:TYR:CE1	1:I:451:TRP:CE2	3.07	0.42
1:I:516:MET:O	1:I:517:ILE:HD13	2.20	0.42
1:J:58:CYS:SG	1:J:516:MET:HB2	2.59	0.42
1:K:43:ASN:HD22	1:K:200:PRO:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:68:MET:SD	1:M:503:ARG:NE	2.92	0.42
1:M:397:ASN:N	1:M:398:ASN:HA	2.34	0.42
1:M:557:TYR:CZ	1:M:559:PRO:HG3	2.54	0.42
1:N:177:ALA:HB3	1:N:483:PHE:HB2	2.01	0.42
1:N:354:PRO:HA	1:N:373:ALA:HB3	2.01	0.42
1:O:109:TRP:NE1	1:O:247:LEU:CD2	2.82	0.42
1:O:177:ALA:HB3	1:O:483:PHE:HB2	2.01	0.42
1:O:354:PRO:HA	1:O:373:ALA:HB3	2.01	0.42
1:P:58:CYS:SG	1:P:516:MET:HB2	2.59	0.42
1:P:250:MET:HB2	1:P:251:ILE:HG23	2.02	0.42
1:Q:109:TRP:O	1:Q:209:TYR:HB3	2.20	0.42
1:Q:516:MET:O	1:Q:517:ILE:HD13	2.20	0.42
1:R:134:ARG:O	1:R:276:LEU:N	2.32	0.42
1:R:250:MET:HB2	1:R:251:ILE:HG23	2.02	0.42
1:R:443:ASP:OD1	1:S:462:THR:OG1	2.37	0.42
1:R:449:TYR:CD1	1:R:450:PRO:HA	2.54	0.42
1:S:449:TYR:CD1	1:S:450:PRO:HA	2.54	0.42
1:T:43:ASN:HD22	1:T:200:PRO:HB3	1.84	0.42
1:T:109:TRP:O	1:T:209:TYR:HB3	2.20	0.42
1:T:118:GLY:HA2	1:T:449:TYR:CE1	2.55	0.42
1:T:311:TRP:CZ3	1:3:377:ALA:HB2	2.54	0.42
1:T:382:ASN:OD1	1:T:392:GLU:HG2	2.20	0.42
1:T:449:TYR:CD1	1:T:450:PRO:HA	2.54	0.42
1:U:43:ASN:HD22	1:U:200:PRO:HB3	1.84	0.42
1:U:334:SER:N	1:U:435:THR:OG1	2.51	0.42
1:V:469:ALA:HB2	1:X:439:TYR:CZ	2.50	0.42
1:W:443:ASP:OD1	1:Y:462:THR:OG1	2.37	0.42
1:W:516:MET:O	1:W:517:ILE:HD13	2.20	0.42
1:X:523:ARG:O	1:X:523:ARG:HG3	2.18	0.42
1:Y:58:CYS:SG	1:Y:516:MET:HB2	2.59	0.42
1:Z:109:TRP:O	1:Z:209:TYR:HB3	2.20	0.42
1:0:250:MET:HB2	1:0:251:ILE:HG23	2.01	0.42
1:0:366:GLY:HA2	1:0:367:THR:HA	1.76	0.42
1:0:439:TYR:CZ	1:7:469:ALA:HB2	2.50	0.42
1:2:38:THR:HG22	1:2:147:ASN:HB3	2.00	0.42
1:2:43:ASN:HD22	1:2:200:PRO:HB3	1.84	0.42
1:2:379:TYR:CE1	1:2:451:TRP:CE2	3.07	0.42
1:2:397:ASN:HB2	1:2:399:GLU:N	2.35	0.42
1:4:43:ASN:HD22	1:4:200:PRO:HB3	1.84	0.42
1:4:177:ALA:HB3	1:4:483:PHE:HB2	2.01	0.42
1:5:523:ARG:O	1:5:523:ARG:HG3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:109:TRP:NE1	1:a:247:LEU:CD2	2.82	0.42
1:a:177:ALA:HB3	1:a:483:PHE:HB2	2.01	0.42
1:a:245:THR:HA	1:a:246:PRO:HD2	1.50	0.42
1:b:109:TRP:NE1	1:b:247:LEU:CD2	2.82	0.42
1:b:146:GLU:HA	1:b:147:ASN:HA	1.78	0.42
1:b:516:MET:O	1:b:517:ILE:HD13	2.19	0.42
1:c:43:ASN:HD22	1:c:200:PRO:HB3	1.84	0.42
1:c:397:ASN:N	1:c:398:ASN:HA	2.34	0.42
1:c:543:GLN:HA	1:c:546:VAL:HG12	2.02	0.42
1:d:68:MET:SD	1:d:503:ARG:NE	2.92	0.42
1:d:382:ASN:OD1	1:d:392:GLU:HG2	2.20	0.42
1:d:523:ARG:O	1:d:523:ARG:HG3	2.18	0.42
1:e:318:ASN:HA	1:e:319:PRO:HA	1.81	0.42
1:f:38:THR:HG22	1:f:147:ASN:HB3	2.00	0.42
1:f:43:ASN:HD22	1:f:200:PRO:HB3	1.84	0.42
1:f:354:PRO:HA	1:f:373:ALA:HB3	2.02	0.42
1:f:379:TYR:CE1	1:f:451:TRP:CE2	3.07	0.42
1:f:523:ARG:O	1:f:523:ARG:HG3	2.18	0.42
1:g:308:ILE:HG21	1:h:192:TYR:HD1	1.83	0.42
1:g:533:LEU:HD13	1:g:563:MET:HE1	2.00	0.42
1:h:109:TRP:HZ3	1:h:485:LYS:CB	2.27	0.42
1:h:397:ASN:HB2	1:h:399:GLU:N	2.35	0.42
1:h:557:TYR:CZ	1:h:559:PRO:HG3	2.54	0.42
1:i:109:TRP:O	1:i:209:TYR:HB3	2.20	0.42
1:i:118:GLY:HA2	1:i:449:TYR:CE1	2.55	0.42
1:k:115:ASN:O	1:k:454:ILE:HD12	2.19	0.42
1:l:379:TYR:CE1	1:l:451:TRP:CE2	3.07	0.42
1:l:523:ARG:O	1:l:523:ARG:HG3	2.18	0.42
1:m:397:ASN:HB2	1:m:399:GLU:N	2.35	0.42
1:n:298:GLU:HA	1:n:299:GLY:HA2	1.56	0.42
1:n:397:ASN:HB2	1:n:399:GLU:N	2.35	0.42
1:o:35:GLY:C	1:v:257:ARG:HH11	2.17	0.42
1:o:250:MET:HB2	1:o:251:ILE:HG23	2.02	0.42
1:q:543:GLN:HA	1:q:546:VAL:HG12	2.02	0.42
1:r:177:ALA:HB3	1:r:483:PHE:HB2	2.01	0.42
1:s:58:CYS:SG	1:s:516:MET:HB2	2.59	0.42
1:s:250:MET:HB2	1:s:251:ILE:HG23	2.02	0.42
1:t:112:LEU:HD11	1:t:482:LEU:HD23	2.01	0.42
1:t:322:ALA:HB3	1:u:100:SER:HB2	2.02	0.42
1:t:516:MET:O	1:t:517:ILE:HD13	2.20	0.42
1:w:43:ASN:HD22	1:w:200:PRO:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:109:TRP:NE1	1:w:247:LEU:CD2	2.82	0.42
1:w:431:SER:OG	1:w:433:HIS:CD2	2.68	0.42
1:x:115:ASN:O	1:x:454:ILE:HD12	2.19	0.42
1:x:382:ASN:OD1	1:x:392:GLU:HG2	2.19	0.42
1:y:311:TRP:CZ3	1:z:377:ALA:HB2	2.54	0.42
1:y:397:ASN:HB2	1:y:399:GLU:N	2.35	0.42
1:y:449:TYR:CD1	1:y:450:PRO:HA	2.54	0.42
1:6:43:ASN:HD22	1:6:200:PRO:HB3	1.84	0.42
1:6:58:CYS:SG	1:6:516:MET:HB2	2.59	0.42
1:6:533:LEU:HD13	1:6:563:MET:HE1	2.01	0.42
1:7:250:MET:HB2	1:7:251:ILE:HG23	2.02	0.42
1:A:35:GLY:C	1:E:257:ARG:HH11	2.18	0.42
1:A:449:TYR:CD1	1:A:450:PRO:HA	2.54	0.42
1:B:177:ALA:HB3	1:B:483:PHE:HB2	2.01	0.42
1:C:397:ASN:N	1:C:398:ASN:HA	2.34	0.42
1:D:94:ARG:NE	1:P:423:SER:O	2.53	0.42
1:D:100:SER:HB2	1:P:322:ALA:HB3	2.02	0.42
1:D:557:TYR:CZ	1:D:559:PRO:HG3	2.54	0.42
1:E:423:SER:O	1:Q:94:ARG:NE	2.53	0.42
1:G:334:SER:HG	1:G:435:THR:CB	2.27	0.42
1:G:334:SER:N	1:G:435:THR:OG1	2.51	0.42
1:I:134:ARG:O	1:I:276:LEU:N	2.32	0.42
1:J:333:TYR:CE2	1:J:335:TRP:CE3	3.06	0.42
1:K:543:GLN:HA	1:K:546:VAL:HG12	2.02	0.42
1:L:109:TRP:NE1	1:L:247:LEU:CD2	2.82	0.42
1:L:177:ALA:HB3	1:L:483:PHE:HB2	2.01	0.42
1:L:357:GLN:CB	1:L:362:SER:HB3	2.47	0.42
1:L:516:MET:O	1:L:517:ILE:HD13	2.20	0.42
1:M:58:CYS:SG	1:M:516:MET:HB2	2.59	0.42
1:M:109:TRP:O	1:M:209:TYR:HB3	2.20	0.42
1:M:112:LEU:HD11	1:M:482:LEU:HD23	2.01	0.42
1:N:118:GLY:HA2	1:N:449:TYR:CE1	2.55	0.42
1:N:357:GLN:CB	1:N:362:SER:HB3	2.48	0.42
1:O:43:ASN:HD22	1:O:200:PRO:HB3	1.84	0.42
1:O:109:TRP:O	1:O:209:TYR:HB3	2.20	0.42
1:O:118:GLY:HA2	1:O:449:TYR:CE1	2.55	0.42
1:O:322:ALA:HB3	1:g:100:SER:HB2	2.02	0.42
1:O:543:GLN:HA	1:O:546:VAL:HG12	2.02	0.42
1:P:112:LEU:HD11	1:P:482:LEU:HD23	2.01	0.42
1:Q:397:ASN:HB2	1:Q:399:GLU:N	2.35	0.42
1:Q:543:GLN:HA	1:Q:546:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:58:CYS:SG	1:R:516:MET:HB2	2.59	0.42
1:R:245:THR:HA	1:R:246:PRO:HD2	1.50	0.42
1:R:311:TRP:CZ3	1:S:377:ALA:HB2	2.54	0.42
1:R:397:ASN:HB2	1:R:399:GLU:N	2.35	0.42
1:T:115:ASN:O	1:T:454:ILE:HD12	2.19	0.42
1:T:322:ALA:HB3	1:3:100:SER:HB2	2.01	0.42
1:T:397:ASN:N	1:T:398:ASN:HA	2.34	0.42
1:T:557:TYR:CZ	1:T:559:PRO:HG3	2.54	0.42
1:U:516:MET:O	1:U:517:ILE:HD13	2.20	0.42
1:V:250:MET:HB2	1:V:251:ILE:HG23	2.02	0.42
1:V:379:TYR:CE1	1:V:451:TRP:CE2	3.07	0.42
1:V:557:TYR:CZ	1:V:559:PRO:HG3	2.54	0.42
1:W:68:MET:SD	1:W:503:ARG:NE	2.92	0.42
1:W:109:TRP:NE1	1:W:247:LEU:CD2	2.82	0.42
1:X:115:ASN:O	1:X:454:ILE:HD12	2.19	0.42
1:X:250:MET:HB2	1:X:251:ILE:HG23	2.02	0.42
1:Y:109:TRP:O	1:Y:209:TYR:HB3	2.20	0.42
1:Z:58:CYS:SG	1:Z:516:MET:HB2	2.59	0.42
1:Z:346:GLY:CA	1:w:284:ARG:HD2	2.44	0.42
1:0:115:ASN:O	1:0:454:ILE:HD12	2.19	0.42
1:0:333:TYR:CE2	1:0:335:TRP:CE3	3.06	0.42
1:1:43:ASN:HD22	1:1:200:PRO:HB3	1.85	0.42
1:1:379:TYR:CE1	1:1:451:TRP:CE2	3.07	0.42
1:2:65:HIS:CD2	1:2:205:LYS:HE2	2.53	0.42
1:2:109:TRP:O	1:2:209:TYR:HB3	2.20	0.42
1:2:177:ALA:HB3	1:2:483:PHE:HB2	2.01	0.42
1:2:354:PRO:HA	1:2:373:ALA:HB3	2.02	0.42
1:3:382:ASN:OD1	1:3:392:GLU:HG2	2.20	0.42
1:4:38:THR:HG22	1:4:147:ASN:HB3	2.00	0.42
1:4:449:TYR:CD1	1:4:450:PRO:HA	2.54	0.42
1:a:340:ILE:N	1:b:412:ALA:O	2.49	0.42
1:b:177:ALA:HB3	1:b:483:PHE:HB2	2.01	0.42
1:c:100:SER:HB2	1:e:322:ALA:HB3	2.01	0.42
1:c:109:TRP:NE1	1:c:247:LEU:CD2	2.82	0.42
1:d:109:TRP:O	1:d:209:TYR:HB3	2.20	0.42
1:d:112:LEU:HD11	1:d:482:LEU:HD23	2.01	0.42
1:d:557:TYR:CZ	1:d:559:PRO:HG3	2.54	0.42
1:e:397:ASN:N	1:e:398:ASN:HA	2.34	0.42
1:e:561:ARG:HA	1:e:561:ARG:HD3	1.88	0.42
1:f:65:HIS:CD2	1:f:205:LYS:HE2	2.54	0.42
1:f:397:ASN:HB2	1:f:399:GLU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:379:TYR:CE1	1:g:451:TRP:CE2	3.07	0.42
1:g:397:ASN:HB2	1:g:399:GLU:N	2.35	0.42
1:g:523:ARG:O	1:g:523:ARG:HG3	2.18	0.42
1:h:112:LEU:HD11	1:h:482:LEU:HD23	2.01	0.42
1:i:43:ASN:HD22	1:i:200:PRO:HB3	1.84	0.42
1:i:115:ASN:O	1:i:454:ILE:HD12	2.19	0.42
1:i:311:TRP:CZ3	1:j:377:ALA:HB2	2.54	0.42
1:j:33:GLY:C	1:j:36:HIS:HD2	2.17	0.42
1:k:43:ASN:HD22	1:k:200:PRO:HB3	1.84	0.42
1:k:109:TRP:NE1	1:k:247:LEU:CD2	2.82	0.42
1:k:109:TRP:O	1:k:209:TYR:HB3	2.20	0.42
1:k:354:PRO:HA	1:k:373:ALA:HB3	2.01	0.42
1:l:115:ASN:O	1:l:454:ILE:HD12	2.19	0.42
1:l:533:LEU:HD13	1:l:563:MET:HE1	2.01	0.42
1:m:112:LEU:HD11	1:m:482:LEU:HD23	2.02	0.42
1:n:94:ARG:NE	1:p:423:SER:O	2.53	0.42
1:n:516:MET:O	1:n:517:ILE:HD13	2.20	0.42
1:o:263:GLU:HA	1:o:264:SER:HA	1.76	0.42
1:p:250:MET:HB2	1:p:251:ILE:HG23	2.02	0.42
1:p:397:ASN:HB2	1:p:399:GLU:N	2.35	0.42
1:q:94:ARG:NE	1:s:423:SER:O	2.53	0.42
1:q:100:SER:HB2	1:s:322:ALA:HB3	2.02	0.42
1:q:109:TRP:NE1	1:q:247:LEU:CD2	2.82	0.42
1:q:192:TYR:HD1	1:s:308:ILE:HG21	1.83	0.42
1:q:397:ASN:N	1:q:398:ASN:HA	2.34	0.42
1:q:449:TYR:CD1	1:q:450:PRO:HA	2.54	0.42
1:r:43:ASN:HD22	1:r:200:PRO:HB3	1.84	0.42
1:r:311:TRP:CZ3	1:s:377:ALA:HB2	2.54	0.42
1:r:354:PRO:HA	1:r:373:ALA:HB3	2.02	0.42
1:r:516:MET:O	1:r:517:ILE:HD13	2.20	0.42
1:t:431:SER:OG	1:t:433:HIS:CD2	2.68	0.42
1:t:557:TYR:CZ	1:t:559:PRO:HG3	2.54	0.42
1:w:469:ALA:HB2	1:x:439:TYR:CZ	2.50	0.42
1:x:333:TYR:CE2	1:x:335:TRP:CE3	3.06	0.42
1:x:449:TYR:CD1	1:x:450:PRO:HA	2.54	0.42
1:y:58:CYS:SG	1:y:516:MET:HB2	2.59	0.42
1:y:115:ASN:O	1:y:454:ILE:HD12	2.19	0.42
1:y:134:ARG:O	1:y:276:LEU:N	2.32	0.42
1:6:390:MET:HA	1:6:391:ARG:HA	1.72	0.42
1:7:379:TYR:CE1	1:7:451:TRP:CE2	3.07	0.42
1:A:115:ASN:O	1:A:454:ILE:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:ASN:C	1:G:391:ARG:HH12	2.26	0.42
1:A:381:TRP:O	1:A:381:TRP:CD1	2.73	0.42
1:A:549:ALA:O	1:E:75:ARG:HD2	2.19	0.42
1:B:118:GLY:HA2	1:B:449:TYR:CE1	2.55	0.42
1:B:366:GLY:HA2	1:B:367:THR:HA	1.76	0.42
1:B:379:TYR:CE1	1:B:451:TRP:CE2	3.07	0.42
1:C:449:TYR:CD1	1:C:450:PRO:HA	2.54	0.42
1:D:192:TYR:HD1	1:P:308:ILE:HG21	1.83	0.42
1:D:377:ALA:HB2	1:P:311:TRP:CZ3	2.54	0.42
1:D:397:ASN:N	1:D:398:ASN:HA	2.34	0.42
1:E:250:MET:HB2	1:E:251:ILE:HG23	2.02	0.42
1:E:397:ASN:HB2	1:E:399:GLU:N	2.35	0.42
1:F:377:ALA:HB2	1:Q:311:TRP:CZ3	2.54	0.42
1:G:109:TRP:O	1:G:209:TYR:HB3	2.20	0.42
1:G:115:ASN:O	1:G:454:ILE:HD12	2.19	0.42
1:G:335:TRP:HD1	1:G:337:GLU:HB3	1.85	0.42
1:H:397:ASN:N	1:H:398:ASN:HA	2.34	0.42
1:I:354:PRO:HA	1:I:373:ALA:HB3	2.02	0.42
1:K:354:PRO:HA	1:K:373:ALA:HB3	2.01	0.42
1:K:382:ASN:OD1	1:K:392:GLU:HG2	2.19	0.42
1:K:397:ASN:N	1:K:398:ASN:HA	2.34	0.42
1:K:449:TYR:CD1	1:K:450:PRO:HA	2.54	0.42
1:L:112:LEU:HD11	1:L:482:LEU:HD23	2.01	0.42
1:L:115:ASN:O	1:L:454:ILE:HD12	2.19	0.42
1:L:397:ASN:N	1:L:398:ASN:HA	2.34	0.42
1:M:94:ARG:NE	1:1:423:SER:O	2.53	0.42
1:N:43:ASN:HD22	1:N:200:PRO:HB3	1.84	0.42
1:N:379:TYR:CE1	1:N:451:TRP:CE2	3.07	0.42
1:N:382:ASN:OD1	1:N:392:GLU:HG2	2.19	0.42
1:O:115:ASN:O	1:O:454:ILE:HD12	2.19	0.42
1:O:133:CYS:HB2	1:O:520:ALA:HB1	2.01	0.42
1:P:318:ASN:HA	1:P:319:PRO:HA	1.81	0.42
1:P:382:ASN:OD1	1:P:392:GLU:HG2	2.19	0.42
1:Q:59:HIS:HE1	1:Q:515:LYS:HZ1	1.66	0.42
1:R:115:ASN:O	1:R:454:ILE:HD12	2.19	0.42
1:R:225:ASP:HB2	1:R:226:ARG:CB	2.36	0.42
1:R:379:TYR:CE1	1:R:451:TRP:CE2	3.07	0.42
1:R:557:TYR:CZ	1:R:559:PRO:HG3	2.54	0.42
1:S:382:ASN:OD1	1:S:392:GLU:HG2	2.19	0.42
1:T:516:MET:O	1:T:517:ILE:HD13	2.20	0.42
1:V:109:TRP:O	1:V:209:TYR:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:139:SER:O	1:V:269:PHE:N	2.45	0.42
1:W:109:TRP:HZ3	1:W:485:LYS:CB	2.27	0.42
1:W:109:TRP:O	1:W:209:TYR:HB3	2.20	0.42
1:W:322:ALA:HB3	1:Y:100:SER:HB2	2.02	0.42
1:W:431:SER:OG	1:W:433:HIS:CD2	2.68	0.42
1:W:559:PRO:HA	1:W:560:GLY:HA3	1.80	0.42
1:X:89:GLN:NE2	1:X:229:GLN:HB2	2.28	0.42
1:Y:335:TRP:HD1	1:Y:337:GLU:HB3	1.85	0.42
1:Y:543:GLN:HA	1:Y:546:VAL:HG12	2.02	0.42
1:Z:335:TRP:HD1	1:Z:337:GLU:HB3	1.85	0.42
1:Z:381:TRP:O	1:Z:381:TRP:CD1	2.73	0.42
1:Z:543:GLN:HA	1:Z:546:VAL:HG12	2.02	0.42
1:2:100:SER:HB2	1:j:322:ALA:HB3	2.02	0.42
1:2:118:GLY:HA2	1:2:449:TYR:CE1	2.55	0.42
1:3:33:GLY:C	1:3:36:HIS:HD2	2.17	0.42
1:3:112:LEU:HD11	1:3:482:LEU:HD23	2.01	0.42
1:3:134:ARG:O	1:3:276:LEU:N	2.32	0.42
1:4:354:PRO:HA	1:4:373:ALA:HB3	2.01	0.42
1:4:379:TYR:CE1	1:4:451:TRP:CE2	3.07	0.42
1:4:382:ASN:OD1	1:4:392:GLU:HG2	2.20	0.42
1:4:397:ASN:N	1:4:398:ASN:HA	2.34	0.42
1:4:543:GLN:HA	1:4:546:VAL:HG12	2.02	0.42
1:5:65:HIS:CD2	1:5:205:LYS:HE2	2.53	0.42
1:5:250:MET:HB2	1:5:251:ILE:HG23	2.02	0.42
1:5:333:TYR:CE2	1:5:335:TRP:CE3	3.06	0.42
1:a:349:ILE:HD13	1:b:324:THR:HG22	2.01	0.42
1:a:379:TYR:CE1	1:a:451:TRP:CE2	3.07	0.42
1:b:115:ASN:O	1:b:454:ILE:HD12	2.19	0.42
1:b:357:GLN:CB	1:b:362:SER:HB3	2.48	0.42
1:b:397:ASN:N	1:b:398:ASN:HA	2.34	0.42
1:c:390:MET:HA	1:c:391:ARG:HA	1.72	0.42
1:c:423:SER:O	1:d:94:ARG:NE	2.53	0.42
1:d:58:CYS:SG	1:d:516:MET:HB2	2.59	0.42
1:d:533:LEU:HD13	1:d:563:MET:HE1	2.00	0.42
1:e:115:ASN:O	1:e:454:ILE:HD12	2.19	0.42
1:e:139:SER:O	1:e:269:PHE:N	2.45	0.42
1:f:109:TRP:O	1:f:209:TYR:HB3	2.20	0.42
1:f:118:GLY:HA2	1:f:449:TYR:CE1	2.55	0.42
1:f:177:ALA:HB3	1:f:483:PHE:HB2	2.01	0.42
1:f:308:ILE:HA	1:f:309:ASN:CB	2.50	0.42
1:f:431:SER:OG	1:f:433:HIS:CD2	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:118:GLY:HA2	1:g:449:TYR:CE1	2.55	0.42
1:g:423:SER:O	1:h:94:ARG:NE	2.53	0.42
1:g:449:TYR:CD1	1:g:450:PRO:HA	2.54	0.42
1:h:335:TRP:HD1	1:h:337:GLU:HB3	1.85	0.42
1:h:449:TYR:CD1	1:h:450:PRO:HA	2.54	0.42
1:h:533:LEU:HD13	1:h:563:MET:HE1	2.00	0.42
1:i:322:ALA:HB3	1:j:100:SER:HB2	2.01	0.42
1:i:449:TYR:CD1	1:i:450:PRO:HA	2.54	0.42
1:i:557:TYR:CZ	1:i:559:PRO:HG3	2.54	0.42
1:j:112:LEU:HD11	1:j:482:LEU:HD23	2.01	0.42
1:j:381:TRP:O	1:j:381:TRP:CD1	2.73	0.42
1:k:118:GLY:HA2	1:k:449:TYR:CE1	2.55	0.42
1:k:133:CYS:HB2	1:k:520:ALA:HB1	2.01	0.42
1:k:177:ALA:HB3	1:k:483:PHE:HB2	2.01	0.42
1:k:322:ALA:HB3	1:l:100:SER:HB2	2.02	0.42
1:l:109:TRP:O	1:l:209:TYR:HB3	2.20	0.42
1:l:118:GLY:HA2	1:l:449:TYR:CE1	2.55	0.42
1:m:109:TRP:HZ3	1:m:485:LYS:CB	2.28	0.42
1:m:335:TRP:HD1	1:m:337:GLU:HB3	1.85	0.42
1:m:397:ASN:N	1:m:398:ASN:HA	2.34	0.42
1:o:115:ASN:O	1:o:454:ILE:HD12	2.19	0.42
1:p:263:GLU:HA	1:p:264:SER:HA	1.76	0.42
1:p:397:ASN:N	1:p:398:ASN:HA	2.34	0.42
1:p:533:LEU:HD13	1:p:563:MET:HE1	2.01	0.42
1:r:323:SER:HG	1:s:98:ASN:HA	1.79	0.42
1:s:382:ASN:OD1	1:s:392:GLU:HG2	2.20	0.42
1:u:449:TYR:CD1	1:u:450:PRO:HA	2.54	0.42
1:v:109:TRP:O	1:v:209:TYR:HB3	2.20	0.42
1:v:334:SER:N	1:v:435:THR:OG1	2.51	0.42
1:v:335:TRP:HD1	1:v:337:GLU:HB3	1.85	0.42
1:v:516:MET:O	1:v:517:ILE:HD13	2.20	0.42
1:w:115:ASN:O	1:w:454:ILE:HD12	2.19	0.42
1:w:397:ASN:N	1:w:398:ASN:HA	2.34	0.42
1:x:112:LEU:HD11	1:x:482:LEU:HD23	2.01	0.42
1:x:397:ASN:N	1:x:398:ASN:HA	2.34	0.42
1:y:379:TYR:CE1	1:y:451:TRP:CE2	3.07	0.42
1:y:557:TYR:CZ	1:y:559:PRO:HG3	2.54	0.42
1:7:557:TYR:CZ	1:7:559:PRO:HG3	2.54	0.42
1:A:528:TRP:HB2	1:G:246:PRO:HG2	1.94	0.42
1:C:115:ASN:O	1:C:454:ILE:HD12	2.19	0.42
1:C:322:ALA:HB3	1:1:100:SER:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:379:TYR:CE1	1:C:451:TRP:CE2	3.07	0.42
1:D:58:CYS:SG	1:D:516:MET:HB2	2.59	0.42
1:D:516:MET:O	1:D:517:ILE:HD13	2.20	0.42
1:E:346:GLY:CA	1:F:284:ARG:HD2	2.44	0.42
1:E:397:ASN:N	1:E:398:ASN:HA	2.34	0.42
1:E:533:LEU:HD13	1:E:563:MET:HE1	2.01	0.42
1:F:35:GLY:C	1:G:257:ARG:HH11	2.17	0.42
1:F:115:ASN:O	1:F:454:ILE:HD12	2.19	0.42
1:G:516:MET:O	1:G:517:ILE:HD13	2.20	0.42
1:G:549:ALA:O	1:W:75:ARG:HD2	2.18	0.42
1:H:333:TYR:CE2	1:H:335:TRP:CE3	3.06	0.42
1:H:381:TRP:O	1:H:381:TRP:CD1	2.73	0.42
1:H:449:TYR:CD1	1:H:450:PRO:HA	2.54	0.42
1:I:115:ASN:O	1:I:454:ILE:HD12	2.19	0.42
1:I:335:TRP:HD1	1:I:337:GLU:HB3	1.85	0.42
1:I:381:TRP:O	1:I:381:TRP:CD1	2.73	0.42
1:J:65:HIS:CD2	1:J:205:LYS:HE2	2.53	0.42
1:J:250:MET:HB2	1:J:251:ILE:HG23	2.02	0.42
1:J:523:ARG:O	1:J:523:ARG:HG3	2.18	0.42
1:K:68:MET:SD	1:K:503:ARG:NE	2.92	0.42
1:K:112:LEU:HD11	1:K:482:LEU:HD23	2.01	0.42
1:K:225:ASP:HB2	1:K:226:ARG:CB	2.36	0.42
1:L:109:TRP:O	1:L:209:TYR:HB3	2.20	0.42
1:L:354:PRO:HA	1:L:373:ALA:HB3	2.01	0.42
1:M:533:LEU:HD13	1:M:563:MET:HE1	2.01	0.42
1:N:311:TRP:CZ3	1:P:377:ALA:HB2	2.54	0.42
1:N:516:MET:O	1:N:517:ILE:HD13	2.20	0.42
1:O:94:ARG:NE	1:h:423:SER:O	2.53	0.42
1:P:109:TRP:O	1:P:209:TYR:HB3	2.20	0.42
1:Q:89:GLN:NE2	1:Q:229:GLN:HB2	2.28	0.42
1:S:381:TRP:O	1:S:381:TRP:CD1	2.73	0.42
1:T:379:TYR:CE1	1:T:451:TRP:CE2	3.07	0.42
1:V:58:CYS:SG	1:V:516:MET:HB2	2.59	0.42
1:V:381:TRP:O	1:V:381:TRP:CD1	2.73	0.42
1:W:68:MET:CA	1:W:69:SER:HB3	2.48	0.42
1:W:115:ASN:O	1:W:454:ILE:HD12	2.19	0.42
1:W:250:MET:HB2	1:W:251:ILE:HG23	2.01	0.42
1:W:397:ASN:HB2	1:W:399:GLU:N	2.35	0.42
1:W:397:ASN:N	1:W:398:ASN:HA	2.34	0.42
1:X:112:LEU:HD11	1:X:482:LEU:HD23	2.01	0.42
1:X:333:TYR:CE2	1:X:335:TRP:CE3	3.06	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:59:HIS:HE1	1:Y:515:LYS:HZ1	1.67	0.42
1:Y:109:TRP:NE1	1:Y:247:LEU:CD2	2.82	0.42
1:Y:177:ALA:HB3	1:Y:483:PHE:HB2	2.01	0.42
1:Y:381:TRP:O	1:Y:381:TRP:CD1	2.73	0.42
1:Z:75:ARG:HD2	1:0:549:ALA:O	2.18	0.42
1:Z:100:SER:HB2	1:w:322:ALA:HB3	2.02	0.42
1:Z:177:ALA:HB3	1:Z:483:PHE:HB2	2.01	0.42
1:0:89:GLN:NE2	1:0:229:GLN:HB2	2.28	0.42
1:0:523:ARG:O	1:0:523:ARG:HG3	2.18	0.42
1:1:397:ASN:N	1:1:398:ASN:HA	2.34	0.42
1:1:523:ARG:HG3	1:1:523:ARG:O	2.18	0.42
1:1:549:ALA:O	1:i:75:ARG:HD2	2.18	0.42
1:2:58:CYS:SG	1:2:516:MET:HB2	2.59	0.42
1:2:308:ILE:HA	1:2:309:ASN:CB	2.50	0.42
1:3:381:TRP:O	1:3:381:TRP:CD1	2.73	0.42
1:4:112:LEU:HD11	1:4:482:LEU:HD23	2.01	0.42
1:5:58:CYS:SG	1:5:516:MET:HB2	2.59	0.42
1:5:118:GLY:HA2	1:5:449:TYR:CE1	2.55	0.42
1:5:177:ALA:HB3	1:5:483:PHE:HB2	2.01	0.42
1:a:118:GLY:HA2	1:a:449:TYR:CE1	2.55	0.42
1:b:109:TRP:CZ3	1:b:485:LYS:HB2	2.48	0.42
1:b:109:TRP:O	1:b:209:TYR:HB3	2.20	0.42
1:b:112:LEU:HD11	1:b:482:LEU:HD23	2.01	0.42
1:c:322:ALA:HB3	1:d:100:SER:HB2	2.02	0.42
1:e:177:ALA:HB3	1:e:483:PHE:HB2	2.01	0.42
1:f:397:ASN:N	1:f:398:ASN:HA	2.34	0.42
1:g:43:ASN:HD22	1:g:200:PRO:HB3	1.84	0.42
1:g:109:TRP:O	1:g:209:TYR:HB3	2.20	0.42
1:h:107:THR:OG1	1:h:108:PRO:HD2	2.20	0.42
1:h:250:MET:HB2	1:h:251:ILE:HG23	2.02	0.42
1:h:397:ASN:N	1:h:398:ASN:HA	2.34	0.42
1:i:379:TYR:CE1	1:i:451:TRP:CE2	3.07	0.42
1:i:397:ASN:N	1:i:398:ASN:HA	2.34	0.42
1:i:516:MET:O	1:i:517:ILE:HD13	2.20	0.42
1:j:58:CYS:SG	1:j:516:MET:HB2	2.59	0.42
1:j:543:GLN:HA	1:j:546:VAL:HG12	2.02	0.42
1:k:94:ARG:NE	1:m:423:SER:O	2.53	0.42
1:k:335:TRP:HD1	1:k:337:GLU:HB3	1.85	0.42
1:k:543:GLN:HA	1:k:546:VAL:HG12	2.02	0.42
1:l:284:ARG:HD2	1:m:346:GLY:CA	2.44	0.42
1:l:397:ASN:HB2	1:l:399:GLU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:423:SER:O	1:m:94:ARG:NE	2.53	0.42
1:l:449:TYR:CD1	1:l:450:PRO:HA	2.54	0.42
1:m:115:ASN:O	1:m:454:ILE:HD12	2.19	0.42
1:m:250:MET:HB2	1:m:251:ILE:HG23	2.01	0.42
1:m:449:TYR:CD1	1:m:450:PRO:HA	2.54	0.42
1:m:533:LEU:HD13	1:m:563:MET:HE1	2.01	0.42
1:n:89:GLN:NE2	1:n:229:GLN:HB2	2.28	0.42
1:n:311:TRP:CZ3	1:o:377:ALA:HB2	2.54	0.42
1:o:284:ARG:HD2	1:p:346:GLY:CA	2.44	0.42
1:p:43:ASN:HD22	1:p:200:PRO:HB3	1.84	0.42
1:q:58:CYS:SG	1:q:516:MET:HB2	2.59	0.42
1:q:377:ALA:HB2	1:s:311:TRP:CZ3	2.54	0.42
1:q:382:ASN:OD1	1:q:392:GLU:HG2	2.19	0.42
1:q:423:SER:O	1:r:94:ARG:NE	2.53	0.42
1:r:118:GLY:HA2	1:r:449:TYR:CE1	2.55	0.42
1:r:382:ASN:OD1	1:r:392:GLU:HG2	2.20	0.42
1:r:397:ASN:N	1:r:398:ASN:HA	2.34	0.42
1:s:109:TRP:O	1:s:209:TYR:HB3	2.20	0.42
1:s:112:LEU:HD11	1:s:482:LEU:HD23	2.01	0.42
1:s:334:SER:HG	1:s:435:THR:CB	2.26	0.42
1:s:381:TRP:O	1:s:381:TRP:CD1	2.73	0.42
1:t:335:TRP:HD1	1:t:337:GLU:HB3	1.85	0.42
1:t:354:PRO:HA	1:t:373:ALA:HB3	2.02	0.42
1:t:381:TRP:O	1:t:381:TRP:CD1	2.73	0.42
1:t:523:ARG:O	1:t:523:ARG:HG3	2.18	0.42
1:u:109:TRP:O	1:u:209:TYR:HB3	2.20	0.42
1:u:115:ASN:O	1:u:454:ILE:HD12	2.19	0.42
1:u:177:ALA:HB3	1:u:483:PHE:HB2	2.01	0.42
1:u:250:MET:HB2	1:u:251:ILE:HG23	2.02	0.42
1:u:381:TRP:O	1:u:381:TRP:CD1	2.73	0.42
1:v:58:CYS:SG	1:v:516:MET:HB2	2.59	0.42
1:v:115:ASN:O	1:v:454:ILE:HD12	2.19	0.42
1:y:333:TYR:CE2	1:y:335:TRP:CE3	3.06	0.42
1:y:346:GLY:CA	1:6:284:ARG:HD2	2.44	0.42
1:z:115:ASN:O	1:z:454:ILE:HD12	2.19	0.42
1:z:177:ALA:HB3	1:z:483:PHE:HB2	2.01	0.42
1:z:354:PRO:HA	1:z:373:ALA:HB3	2.01	0.42
1:z:382:ASN:OD1	1:z:392:GLU:HG2	2.19	0.42
1:6:109:TRP:HZ3	1:6:485:LYS:CB	2.27	0.42
1:7:58:CYS:SG	1:7:516:MET:HB2	2.59	0.42
1:7:381:TRP:O	1:7:381:TRP:CD1	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:390:MET:HA	1:7:391:ARG:HA	1.72	0.42
1:7:449:TYR:CD1	1:7:450:PRO:HA	2.54	0.42
1:A:109:TRP:O	1:A:209:TYR:HB3	2.20	0.42
1:A:118:GLY:HA2	1:A:449:TYR:CE1	2.55	0.42
1:A:250:MET:HB2	1:A:251:ILE:HG23	2.02	0.42
1:A:397:ASN:HB2	1:A:399:GLU:N	2.35	0.42
1:B:100:SER:HB2	1:L:322:ALA:HB3	2.02	0.42
1:B:381:TRP:O	1:B:381:TRP:CD1	2.73	0.42
1:B:423:SER:O	1:J:94:ARG:NE	2.53	0.42
1:C:107:THR:OG1	1:C:108:PRO:HD2	2.20	0.42
1:C:139:SER:O	1:C:269:PHE:N	2.45	0.42
1:C:177:ALA:HB3	1:C:483:PHE:HB2	2.01	0.42
1:C:561:ARG:HA	1:C:561:ARG:HD3	1.88	0.42
1:D:382:ASN:OD1	1:D:392:GLU:HG2	2.20	0.42
1:D:423:SER:O	1:N:94:ARG:NE	2.53	0.42
1:E:43:ASN:HD22	1:E:200:PRO:HB3	1.84	0.42
1:E:523:ARG:O	1:E:523:ARG:HG3	2.18	0.42
1:G:58:CYS:SG	1:G:516:MET:HB2	2.59	0.42
1:G:250:MET:HB2	1:G:251:ILE:HG23	2.01	0.42
1:G:263:GLU:HA	1:G:264:SER:HA	1.76	0.42
1:H:112:LEU:HD11	1:H:482:LEU:HD23	2.01	0.42
1:H:134:ARG:O	1:H:276:LEU:N	2.32	0.42
1:I:523:ARG:O	1:I:523:ARG:HG3	2.18	0.42
1:J:118:GLY:HA2	1:J:449:TYR:CE1	2.55	0.42
1:J:322:ALA:HB3	1:L:100:SER:HB2	2.02	0.42
1:J:354:PRO:HA	1:J:373:ALA:HB3	2.01	0.42
1:J:379:TYR:CE1	1:J:451:TRP:CE2	3.07	0.42
1:K:250:MET:HB2	1:K:251:ILE:HG23	2.02	0.42
1:K:308:ILE:HA	1:K:309:ASN:CB	2.50	0.42
1:K:379:TYR:CE1	1:K:451:TRP:CE2	3.07	0.42
1:K:557:TYR:CZ	1:K:559:PRO:HG3	2.54	0.42
1:L:382:ASN:OD1	1:L:392:GLU:HG2	2.19	0.42
1:M:377:ALA:HB2	1:1:311:TRP:CZ3	2.54	0.42
1:M:449:TYR:CD1	1:M:450:PRO:HA	2.54	0.42
1:N:245:THR:HA	1:N:246:PRO:HD2	1.50	0.42
1:N:557:TYR:CZ	1:N:559:PRO:HG3	2.54	0.42
1:O:335:TRP:HD1	1:O:337:GLU:HB3	1.85	0.42
1:O:382:ASN:OD1	1:O:392:GLU:HG2	2.20	0.42
1:P:43:ASN:HD22	1:P:200:PRO:HB3	1.84	0.42
1:P:335:TRP:HD1	1:P:337:GLU:HB3	1.85	0.42
1:P:557:TYR:CZ	1:P:559:PRO:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:68:MET:CA	1:Q:69:SER:HB3	2.48	0.42
1:Q:118:GLY:HA2	1:Q:449:TYR:CE1	2.55	0.42
1:Q:250:MET:HB2	1:Q:251:ILE:HG23	2.01	0.42
1:Q:354:PRO:HA	1:Q:373:ALA:HB3	2.02	0.42
1:Q:357:GLN:CB	1:Q:362:SER:HB3	2.47	0.42
1:Q:381:TRP:O	1:Q:381:TRP:CD1	2.73	0.42
1:Q:397:ASN:N	1:Q:398:ASN:HA	2.34	0.42
1:R:333:TYR:CE2	1:R:335:TRP:CE3	3.06	0.42
1:R:335:TRP:HD1	1:R:337:GLU:HB3	1.85	0.42
1:S:115:ASN:O	1:S:454:ILE:HD12	2.19	0.42
1:S:118:GLY:HA2	1:S:449:TYR:CE1	2.55	0.42
1:S:308:ILE:HA	1:S:309:ASN:CB	2.50	0.42
1:S:354:PRO:HA	1:S:373:ALA:HB3	2.01	0.42
1:S:516:MET:O	1:S:517:ILE:HD13	2.19	0.42
1:T:177:ALA:HB3	1:T:483:PHE:HB2	2.01	0.42
1:T:335:TRP:HD1	1:T:337:GLU:HB3	1.85	0.42
1:T:354:PRO:HA	1:T:373:ALA:HB3	2.02	0.42
1:T:381:TRP:O	1:T:381:TRP:CD1	2.73	0.42
1:T:511:TRP:HE1	1:U:173:LEU:CD1	2.29	0.42
1:U:112:LEU:HD11	1:U:482:LEU:HD23	2.01	0.42
1:U:382:ASN:OD1	1:U:392:GLU:HG2	2.19	0.42
1:V:354:PRO:HA	1:V:373:ALA:HB3	2.01	0.42
1:V:449:TYR:CD1	1:V:450:PRO:HA	2.54	0.42
1:V:533:LEU:HD13	1:V:563:MET:HE1	2.00	0.42
1:W:449:TYR:CD1	1:W:450:PRO:HA	2.54	0.42
1:X:346:GLY:CA	1:4:284:ARG:HD2	2.44	0.42
1:X:381:TRP:O	1:X:381:TRP:CD1	2.73	0.42
1:Y:379:TYR:CE1	1:Y:451:TRP:CE2	3.07	0.42
1:Y:523:ARG:O	1:Y:523:ARG:HG3	2.18	0.42
1:Z:109:TRP:NE1	1:Z:247:LEU:CD2	2.82	0.42
1:0:112:LEU:HD11	1:0:482:LEU:HD23	2.01	0.42
1:0:284:ARG:HD2	1:7:346:GLY:CA	2.44	0.42
1:0:381:TRP:O	1:0:381:TRP:CD1	2.73	0.42
1:1:58:CYS:SG	1:1:516:MET:HB2	2.59	0.42
1:1:449:TYR:CD1	1:1:450:PRO:HA	2.54	0.42
1:2:431:SER:OG	1:2:433:HIS:CD2	2.68	0.42
1:2:533:LEU:HD13	1:2:563:MET:HE1	2.01	0.42
1:3:322:ALA:HB3	1:f:100:SER:HB2	2.02	0.42
1:3:397:ASN:HB2	1:3:399:GLU:N	2.35	0.42
1:4:250:MET:HB2	1:4:251:ILE:HG23	2.01	0.42
1:4:397:ASN:HB2	1:4:399:GLU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:334:SER:HG	1:5:435:THR:CB	2.28	0.42
1:5:379:TYR:CE1	1:5:451:TRP:CE2	3.07	0.42
1:b:354:PRO:HA	1:b:373:ALA:HB3	2.02	0.42
1:b:382:ASN:OD1	1:b:392:GLU:HG2	2.19	0.42
1:c:311:TRP:CZ3	1:d:377:ALA:HB2	2.54	0.42
1:c:449:TYR:CD1	1:c:450:PRO:HA	2.54	0.42
1:c:523:ARG:O	1:c:523:ARG:HG3	2.18	0.42
1:d:333:TYR:CE2	1:d:335:TRP:CE3	3.06	0.42
1:d:449:TYR:CD1	1:d:450:PRO:HA	2.54	0.42
1:e:107:THR:OG1	1:e:108:PRO:HD2	2.20	0.42
1:e:109:TRP:O	1:e:209:TYR:HB3	2.20	0.42
1:e:379:TYR:CE1	1:e:451:TRP:CE2	3.07	0.42
1:f:58:CYS:SG	1:f:516:MET:HB2	2.59	0.42
1:f:133:CYS:HB2	1:f:520:ALA:HB1	2.01	0.42
1:f:263:GLU:HA	1:f:264:SER:HA	1.76	0.42
1:g:516:MET:O	1:g:517:ILE:HD13	2.20	0.42
1:h:89:GLN:NE2	1:h:229:GLN:HB2	2.28	0.42
1:h:354:PRO:HA	1:h:373:ALA:HB3	2.01	0.42
1:h:543:GLN:HA	1:h:546:VAL:HG12	2.02	0.42
1:i:335:TRP:HD1	1:i:337:GLU:HB3	1.85	0.42
1:i:354:PRO:HA	1:i:373:ALA:HB3	2.02	0.42
1:k:357:GLN:CB	1:k:362:SER:HB3	2.47	0.42
1:k:382:ASN:OD1	1:k:392:GLU:HG2	2.19	0.42
1:l:43:ASN:HD22	1:l:200:PRO:HB3	1.84	0.42
1:l:308:ILE:HA	1:l:309:ASN:CB	2.50	0.42
1:l:308:ILE:HG21	1:m:192:TYR:HD1	1.83	0.42
1:l:516:MET:O	1:l:517:ILE:HD13	2.20	0.42
1:m:107:THR:OG1	1:m:108:PRO:HD2	2.20	0.42
1:m:118:GLY:HA2	1:m:449:TYR:CE1	2.55	0.42
1:m:543:GLN:HA	1:m:546:VAL:HG12	2.02	0.42
1:n:354:PRO:HA	1:n:373:ALA:HB3	2.02	0.42
1:o:335:TRP:HD1	1:o:337:GLU:HB3	1.85	0.42
1:o:397:ASN:HB2	1:o:399:GLU:N	2.35	0.42
1:p:516:MET:O	1:p:517:ILE:HD13	2.20	0.42
1:p:561:ARG:HA	1:p:561:ARG:HD3	1.88	0.42
1:q:112:LEU:HD11	1:q:482:LEU:HD23	2.01	0.42
1:q:308:ILE:HA	1:q:309:ASN:CB	2.50	0.42
1:r:250:MET:HB2	1:r:251:ILE:HG23	2.02	0.42
1:r:379:TYR:CE1	1:r:451:TRP:CE2	3.07	0.42
1:s:335:TRP:HD1	1:s:337:GLU:HB3	1.85	0.42
1:t:115:ASN:O	1:t:454:ILE:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:397:ASN:HB2	1:u:399:GLU:N	2.35	0.42
1:w:68:MET:CA	1:w:69:SER:HB3	2.48	0.42
1:w:109:TRP:O	1:w:209:TYR:HB3	2.20	0.42
1:w:250:MET:HB2	1:w:251:ILE:HG23	2.02	0.42
1:w:382:ASN:OD1	1:w:392:GLU:HG2	2.19	0.42
1:w:449:TYR:CD1	1:w:450:PRO:HA	2.54	0.42
1:x:381:TRP:O	1:x:381:TRP:CD1	2.73	0.42
1:y:335:TRP:HD1	1:y:337:GLU:HB3	1.85	0.42
1:y:543:GLN:HA	1:y:546:VAL:HG12	2.02	0.42
1:z:381:TRP:O	1:z:381:TRP:CD1	2.73	0.42
1:z:559:PRO:HA	1:z:560:GLY:HA3	1.80	0.42
1:6:112:LEU:HD11	1:6:482:LEU:HD23	2.01	0.42
1:7:109:TRP:O	1:7:209:TYR:HB3	2.20	0.42
1:7:139:SER:O	1:7:269:PHE:N	2.45	0.42
1:7:543:GLN:HA	1:7:546:VAL:HG12	2.02	0.42
1:A:192:TYR:HD1	1:I:308:ILE:HG21	1.83	0.42
1:A:308:ILE:HG21	1:G:192:TYR:HD1	1.85	0.42
1:B:133:CYS:HB2	1:B:520:ALA:HB1	2.01	0.42
1:B:397:ASN:HB2	1:B:399:GLU:N	2.35	0.42
1:B:543:GLN:HA	1:B:546:VAL:HG12	2.02	0.42
1:C:100:SER:HB2	1:M:322:ALA:HB3	2.02	0.42
1:C:109:TRP:O	1:C:209:TYR:HB3	2.20	0.42
1:D:112:LEU:HD11	1:D:482:LEU:HD23	2.02	0.42
1:D:308:ILE:HA	1:D:309:ASN:CB	2.50	0.42
1:E:58:CYS:SG	1:E:516:MET:HB2	2.59	0.42
1:E:516:MET:O	1:E:517:ILE:HD13	2.20	0.42
1:F:94:ARG:NE	1:Q:423:SER:O	2.53	0.42
1:F:177:ALA:HB3	1:F:483:PHE:HB2	2.01	0.42
1:F:335:TRP:HD1	1:F:337:GLU:HB3	1.85	0.42
1:F:397:ASN:HB2	1:F:399:GLU:N	2.35	0.42
1:F:449:TYR:CD1	1:F:450:PRO:HA	2.54	0.42
1:G:322:ALA:HB3	1:I:100:SER:HB2	2.02	0.42
1:G:366:GLY:HA2	1:G:367:THR:HA	1.76	0.42
1:J:133:CYS:HB2	1:J:520:ALA:HB1	2.01	0.42
1:J:335:TRP:HD1	1:J:337:GLU:HB3	1.85	0.42
1:K:94:ARG:NE	1:7:423:SER:O	2.53	0.42
1:K:100:SER:HB2	1:7:322:ALA:HB3	2.02	0.42
1:K:397:ASN:HB2	1:K:399:GLU:N	2.35	0.42
1:K:516:MET:O	1:K:517:ILE:HD13	2.20	0.42
1:L:35:GLY:O	1:L:36:HIS:C	2.60	0.42
1:L:68:MET:CA	1:L:69:SER:HB3	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:109:TRP:CZ3	1:L:485:LYS:HB2	2.48	0.42
1:L:247:LEU:C	1:L:249:THR:N	2.78	0.42
1:N:397:ASN:N	1:N:398:ASN:HA	2.34	0.42
1:P:118:GLY:HA2	1:P:449:TYR:CE1	2.55	0.42
1:P:334:SER:HG	1:P:435:THR:CB	2.26	0.42
1:P:354:PRO:HA	1:P:373:ALA:HB3	2.02	0.42
1:P:381:TRP:O	1:P:381:TRP:CD1	2.73	0.42
1:Q:334:SER:OG	1:Q:435:THR:OG1	2.17	0.42
1:R:346:GLY:CA	1:U:284:ARG:HD2	2.44	0.42
1:R:354:PRO:HA	1:R:373:ALA:HB3	2.01	0.42
1:R:491:THR:OG1	1:R:502:SER:O	2.30	0.42
1:R:533:LEU:HD13	1:R:563:MET:HE1	2.00	0.42
1:R:543:GLN:HA	1:R:546:VAL:HG12	2.02	0.42
1:S:307:ASN:C	1:U:391:ARG:HH12	2.28	0.42
1:S:559:PRO:HA	1:S:560:GLY:HA3	1.80	0.42
1:T:75:ARG:HD2	1:c:549:ALA:O	2.18	0.42
1:T:94:ARG:NE	1:f:423:SER:O	2.53	0.42
1:T:133:CYS:HB2	1:T:520:ALA:HB1	2.01	0.42
1:T:397:ASN:HB2	1:T:399:GLU:N	2.35	0.42
1:U:308:ILE:HA	1:U:309:ASN:CB	2.50	0.42
1:U:335:TRP:HD1	1:U:337:GLU:HB3	1.85	0.42
1:U:379:TYR:CE1	1:U:451:TRP:CE2	3.07	0.42
1:U:511:TRP:HE1	1:4:173:LEU:CD1	2.29	0.42
1:V:133:CYS:HB2	1:V:520:ALA:HB1	2.01	0.42
1:V:423:SER:O	1:4:94:ARG:NE	2.53	0.42
1:V:516:MET:O	1:V:517:ILE:HD13	2.19	0.42
1:V:543:GLN:HA	1:V:546:VAL:HG12	2.02	0.42
1:W:107:THR:OG1	1:W:108:PRO:HD2	2.20	0.42
1:W:382:ASN:OD1	1:W:392:GLU:HG2	2.20	0.42
1:W:543:GLN:HA	1:W:546:VAL:HG12	2.02	0.42
1:X:449:TYR:CD1	1:X:450:PRO:HA	2.54	0.42
1:Y:65:HIS:CD2	1:Y:205:LYS:HE2	2.54	0.42
1:Y:68:MET:SD	1:Y:503:ARG:NE	2.92	0.42
1:Z:65:HIS:CD2	1:Z:205:LYS:HE2	2.54	0.42
1:Z:379:TYR:CE1	1:Z:451:TRP:CE2	3.07	0.42
1:Z:523:ARG:O	1:Z:523:ARG:HG3	2.18	0.42
1:0:134:ARG:O	1:0:276:LEU:N	2.32	0.42
1:0:322:ALA:HB3	1:7:100:SER:HB2	2.02	0.42
1:0:449:TYR:CD1	1:0:450:PRO:HA	2.54	0.42
1:1:118:GLY:HA2	1:1:449:TYR:CE1	2.55	0.42
1:2:397:ASN:N	1:2:398:ASN:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:43:ASN:HD22	1:3:200:PRO:HB3	1.84	0.42
1:3:58:CYS:SG	1:3:516:MET:HB2	2.59	0.42
1:3:390:MET:HA	1:3:391:ARG:HA	1.72	0.42
1:4:68:MET:SD	1:4:503:ARG:NE	2.92	0.42
1:4:225:ASP:HB2	1:4:226:ARG:CB	2.36	0.42
1:4:308:ILE:HA	1:4:309:ASN:CB	2.50	0.42
1:4:557:TYR:CZ	1:4:559:PRO:HG3	2.54	0.42
1:5:109:TRP:NE1	1:5:247:LEU:CD2	2.82	0.42
1:5:354:PRO:HA	1:5:373:ALA:HB3	2.02	0.42
1:5:516:MET:O	1:5:517:ILE:HD13	2.20	0.42
1:a:250:MET:HB2	1:a:251:ILE:HG23	2.02	0.42
1:a:381:TRP:O	1:a:381:TRP:CD1	2.73	0.42
1:a:397:ASN:HB2	1:a:399:GLU:N	2.35	0.42
1:b:35:GLY:O	1:b:36:HIS:C	2.60	0.42
1:c:58:CYS:SG	1:c:516:MET:HB2	2.59	0.42
1:c:118:GLY:HA2	1:c:449:TYR:CE1	2.55	0.42
1:c:284:ARG:HD2	1:d:346:GLY:CA	2.44	0.42
1:c:377:ALA:HB2	1:e:311:TRP:CZ3	2.54	0.42
1:f:533:LEU:HD13	1:f:563:MET:HE1	2.01	0.42
1:f:543:GLN:HA	1:f:546:VAL:HG12	2.02	0.42
1:g:308:ILE:HA	1:g:309:ASN:CB	2.50	0.42
1:h:109:TRP:NE1	1:h:247:LEU:CD2	2.82	0.42
1:h:115:ASN:O	1:h:454:ILE:HD12	2.19	0.42
1:h:118:GLY:HA2	1:h:449:TYR:CE1	2.55	0.42
1:i:133:CYS:HB2	1:i:520:ALA:HB1	2.01	0.42
1:i:397:ASN:HB2	1:i:399:GLU:N	2.35	0.42
1:i:511:TRP:HE1	1:6:173:LEU:CD1	2.29	0.42
1:j:397:ASN:HB2	1:j:399:GLU:N	2.35	0.42
1:k:134:ARG:O	1:k:276:LEU:N	2.32	0.42
1:k:246:PRO:CG	1:m:528:TRP:CB	2.65	0.42
1:k:308:ILE:HA	1:k:309:ASN:CB	2.50	0.42
1:k:311:TRP:CZ3	1:l:377:ALA:HB2	2.54	0.42
1:n:118:GLY:HA2	1:n:449:TYR:CE1	2.55	0.42
1:n:250:MET:HB2	1:n:251:ILE:HG23	2.02	0.42
1:n:333:TYR:CE2	1:n:335:TRP:CE3	3.06	0.42
1:n:357:GLN:CB	1:n:362:SER:HB3	2.48	0.42
1:n:381:TRP:O	1:n:381:TRP:CD1	2.73	0.42
1:n:397:ASN:N	1:n:398:ASN:HA	2.34	0.42
1:n:423:SER:O	1:o:94:ARG:NE	2.53	0.42
1:o:177:ALA:HB3	1:o:483:PHE:HB2	2.01	0.42
1:p:58:CYS:SG	1:p:516:MET:HB2	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:133:CYS:HB2	1:p:520:ALA:HB1	2.01	0.42
1:q:516:MET:O	1:q:517:ILE:HD13	2.20	0.42
1:r:449:TYR:CD1	1:r:450:PRO:HA	2.54	0.42
1:r:557:TYR:CZ	1:r:559:PRO:HG3	2.54	0.42
1:s:557:TYR:CZ	1:s:559:PRO:HG3	2.54	0.42
1:t:100:SER:HB2	1:v:322:ALA:HB3	2.02	0.42
1:t:307:ASN:C	1:u:391:ARG:HH12	2.28	0.42
1:u:118:GLY:HA2	1:u:449:TYR:CE1	2.55	0.42
1:v:549:ALA:O	1:w:75:ARG:HD2	2.18	0.42
1:w:107:THR:OG1	1:w:108:PRO:HD2	2.20	0.42
1:w:397:ASN:HB2	1:w:399:GLU:N	2.35	0.42
1:w:543:GLN:HA	1:w:546:VAL:HG12	2.02	0.42
1:y:146:GLU:HA	1:y:147:ASN:HA	1.79	0.42
1:y:284:ARG:HD2	1:z:346:GLY:CA	2.44	0.42
1:y:374:THR:OG1	1:y:396:GLN:O	2.34	0.42
1:y:491:THR:OG1	1:y:502:SER:O	2.30	0.42
1:y:533:LEU:HD13	1:y:563:MET:HE1	2.00	0.42
1:z:118:GLY:HA2	1:z:449:TYR:CE1	2.55	0.42
1:z:307:ASN:C	1:6:391:ARG:HH12	2.28	0.42
1:z:308:ILE:HA	1:z:309:ASN:CB	2.50	0.42
1:z:516:MET:O	1:z:517:ILE:HD13	2.20	0.42
1:6:379:TYR:CE1	1:6:451:TRP:CE2	3.07	0.42
1:7:354:PRO:HA	1:7:373:ALA:HB3	2.02	0.42
1:7:533:LEU:HD13	1:7:563:MET:HE1	2.01	0.42
1:A:37:SER:CA	1:E:257:ARG:HG2	2.33	0.42
1:A:68:MET:CA	1:A:69:SER:HB3	2.48	0.42
1:A:107:THR:OG1	1:A:108:PRO:HD2	2.20	0.42
1:A:177:ALA:HB3	1:A:483:PHE:HB2	2.01	0.42
1:B:58:CYS:SG	1:B:516:MET:HB2	2.59	0.42
1:B:112:LEU:HD11	1:B:482:LEU:HD23	2.01	0.42
1:B:250:MET:HB2	1:B:251:ILE:HG23	2.02	0.42
1:B:449:TYR:CD1	1:B:450:PRO:HA	2.54	0.42
1:C:118:GLY:HA2	1:C:449:TYR:CE1	2.55	0.42
1:C:318:ASN:HA	1:C:319:PRO:HA	1.81	0.42
1:C:377:ALA:HB2	1:M:311:TRP:CZ3	2.54	0.42
1:D:109:TRP:O	1:D:209:TYR:HB3	2.20	0.42
1:E:109:TRP:NE1	1:E:247:LEU:CD2	2.82	0.42
1:F:516:MET:O	1:F:517:ILE:HD13	2.20	0.42
1:F:543:GLN:HA	1:F:546:VAL:HG12	2.02	0.42
1:G:107:THR:OG1	1:G:108:PRO:HD2	2.20	0.42
1:G:307:ASN:C	1:I:391:ARG:HH12	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:381:TRP:O	1:G:381:TRP:CD1	2.73	0.42
1:H:107:THR:OG1	1:H:108:PRO:HD2	2.20	0.42
1:H:308:ILE:HA	1:H:309:ASN:CB	2.50	0.42
1:I:139:SER:O	1:I:269:PHE:N	2.45	0.42
1:J:109:TRP:O	1:J:209:TYR:HB3	2.20	0.42
1:J:177:ALA:HB3	1:J:483:PHE:HB2	2.01	0.42
1:J:382:ASN:OD1	1:J:392:GLU:HG2	2.20	0.42
1:J:397:ASN:HB2	1:J:399:GLU:N	2.35	0.42
1:J:516:MET:O	1:J:517:ILE:HD13	2.20	0.42
1:L:43:ASN:HD22	1:L:200:PRO:HB3	1.84	0.42
1:L:335:TRP:HD1	1:L:337:GLU:HB3	1.85	0.42
1:M:118:GLY:HA2	1:M:449:TYR:CE1	2.55	0.42
1:M:250:MET:HB2	1:M:251:ILE:HG23	2.02	0.42
1:M:333:TYR:CE2	1:M:335:TRP:CE3	3.06	0.42
1:M:381:TRP:O	1:M:381:TRP:CD1	2.73	0.42
1:N:250:MET:HB2	1:N:251:ILE:HG23	2.02	0.42
1:O:84:LEU:HD23	1:O:84:LEU:HA	1.90	0.42
1:O:235:LYS:HA	1:O:236:GLY:HA2	1.90	0.42
1:O:308:ILE:HA	1:O:309:ASN:CB	2.50	0.42
1:Q:333:TYR:CE2	1:Q:335:TRP:CE3	3.06	0.42
1:R:43:ASN:HD22	1:R:200:PRO:HB3	1.84	0.42
1:R:381:TRP:O	1:R:381:TRP:CD1	2.73	0.42
1:S:177:ALA:HB3	1:S:483:PHE:HB2	2.01	0.42
1:S:543:GLN:HA	1:S:546:VAL:HG12	2.02	0.42
1:T:112:LEU:HD11	1:T:482:LEU:HD23	2.01	0.42
1:T:308:ILE:HA	1:T:309:ASN:CB	2.50	0.42
1:V:100:SER:HB2	1:X:322:ALA:HB3	2.02	0.42
1:V:107:THR:OG1	1:V:108:PRO:HD2	2.20	0.42
1:V:118:GLY:HA2	1:V:449:TYR:CE1	2.55	0.42
1:V:177:ALA:HB3	1:V:483:PHE:HB2	2.01	0.42
1:V:322:ALA:HB3	1:4:100:SER:HB2	2.02	0.42
1:V:335:TRP:HD1	1:V:337:GLU:HB3	1.85	0.42
1:V:346:GLY:CA	1:X:284:ARG:HD2	2.44	0.42
1:X:549:ALA:O	1:Y:75:ARG:HD2	2.18	0.42
1:Z:68:MET:SD	1:Z:503:ARG:NE	2.92	0.42
1:0:109:TRP:O	1:0:209:TYR:HB3	2.20	0.42
1:1:334:SER:HG	1:1:435:THR:CB	2.27	0.42
1:2:133:CYS:HB2	1:2:520:ALA:HB1	2.01	0.42
1:2:357:GLN:CB	1:2:362:SER:HB3	2.48	0.42
1:3:543:GLN:HA	1:3:546:VAL:HG12	2.02	0.42
1:4:263:GLU:HA	1:4:264:SER:HA	1.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:516:MET:O	1:4:517:ILE:HD13	2.20	0.42
1:5:109:TRP:O	1:5:209:TYR:HB3	2.20	0.42
1:5:133:CYS:HB2	1:5:520:ALA:HB1	2.01	0.42
1:5:397:ASN:HB2	1:5:399:GLU:N	2.35	0.42
1:a:58:CYS:SG	1:a:516:MET:HB2	2.59	0.42
1:a:112:LEU:HD11	1:a:482:LEU:HD23	2.01	0.42
1:a:133:CYS:HB2	1:a:520:ALA:HB1	2.01	0.42
1:a:308:ILE:HA	1:a:309:ASN:CB	2.50	0.42
1:a:449:TYR:CD1	1:a:450:PRO:HA	2.54	0.42
1:a:543:GLN:HA	1:a:546:VAL:HG12	2.02	0.42
1:b:68:MET:CA	1:b:69:SER:HB3	2.48	0.42
1:b:559:PRO:HA	1:b:560:GLY:HA3	1.80	0.42
1:c:112:LEU:HD11	1:c:482:LEU:HD23	2.01	0.42
1:c:397:ASN:HB2	1:c:399:GLU:N	2.35	0.42
1:d:118:GLY:HA2	1:d:449:TYR:CE1	2.55	0.42
1:d:250:MET:HB2	1:d:251:ILE:HG23	2.02	0.42
1:d:311:TRP:CZ3	1:e:377:ALA:HB2	2.54	0.42
1:d:543:GLN:HA	1:d:546:VAL:HG12	2.01	0.42
1:e:397:ASN:HB2	1:e:399:GLU:N	2.35	0.42
1:f:357:GLN:CB	1:f:362:SER:HB3	2.48	0.42
1:f:449:TYR:CD1	1:f:450:PRO:HA	2.54	0.42
1:h:68:MET:CA	1:h:69:SER:HB3	2.48	0.42
1:i:381:TRP:O	1:i:381:TRP:CD1	2.73	0.42
1:j:43:ASN:HD22	1:j:200:PRO:HB3	1.84	0.42
1:m:109:TRP:NE1	1:m:247:LEU:CD2	2.82	0.42
1:n:68:MET:CA	1:n:69:SER:HB3	2.48	0.42
1:n:322:ALA:HB3	1:o:100:SER:HB2	2.02	0.42
1:o:449:TYR:CD1	1:o:450:PRO:HA	2.54	0.42
1:o:516:MET:O	1:o:517:ILE:HD13	2.20	0.42
1:o:543:GLN:HA	1:o:546:VAL:HG12	2.02	0.42
1:p:47:PHE:O	1:p:48:ILE:HD13	2.20	0.42
1:p:109:TRP:NE1	1:p:247:LEU:CD2	2.82	0.42
1:p:177:ALA:HB3	1:p:483:PHE:HB2	2.01	0.42
1:p:523:ARG:O	1:p:523:ARG:HG3	2.18	0.42
1:s:43:ASN:HD22	1:s:200:PRO:HB3	1.84	0.42
1:s:68:MET:CA	1:s:69:SER:HB3	2.48	0.42
1:s:354:PRO:HA	1:s:373:ALA:HB3	2.02	0.42
1:s:357:GLN:CB	1:s:362:SER:HB3	2.47	0.42
1:t:391:ARG:HH12	1:v:307:ASN:C	2.28	0.42
1:u:423:SER:O	1:v:94:ARG:NE	2.53	0.42
1:v:107:THR:OG1	1:v:108:PRO:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:381:TRP:O	1:v:381:TRP:CD1	2.73	0.42
1:x:109:TRP:O	1:x:209:TYR:HB3	2.20	0.42
1:x:308:ILE:HA	1:x:309:ASN:CB	2.50	0.42
1:y:354:PRO:HA	1:y:373:ALA:HB3	2.01	0.42
1:z:543:GLN:HA	1:z:546:VAL:HG12	2.02	0.42
1:6:250:MET:HB2	1:6:251:ILE:HG23	2.02	0.42
1:6:335:TRP:HD1	1:6:337:GLU:HB3	1.85	0.42
1:6:382:ASN:OD1	1:6:392:GLU:HG2	2.20	0.42
1:7:118:GLY:HA2	1:7:449:TYR:CE1	2.55	0.42
1:7:177:ALA:HB3	1:7:483:PHE:HB2	2.01	0.42
1:7:382:ASN:OD1	1:7:392:GLU:HG2	2.20	0.42
1:A:102:HIS:NE2	1:I:290:HIS:HB3	2.35	0.42
1:A:340:ILE:N	1:I:412:ALA:O	2.53	0.42
1:A:418:ASN:OD1	1:A:419:ASP:N	2.53	0.42
1:B:107:THR:OG1	1:B:108:PRO:HD2	2.20	0.42
1:B:308:ILE:HA	1:B:309:ASN:CB	2.50	0.42
1:B:333:TYR:CE2	1:B:335:TRP:CE3	3.06	0.42
1:C:382:ASN:OD1	1:C:392:GLU:HG2	2.19	0.42
1:E:47:PHE:O	1:E:48:ILE:HD13	2.20	0.42
1:E:177:ALA:HB3	1:E:483:PHE:HB2	2.01	0.42
1:E:381:TRP:O	1:E:381:TRP:CD1	2.73	0.42
1:F:71:MET:HB2	1:F:75:ARG:HH22	1.85	0.42
1:F:100:SER:HB2	1:Q:322:ALA:HB3	2.02	0.42
1:G:35:GLY:C	1:W:257:ARG:HH11	2.17	0.42
1:G:71:MET:HB2	1:G:75:ARG:HH22	1.85	0.42
1:H:109:TRP:O	1:H:209:TYR:HB3	2.20	0.42
1:H:250:MET:HB2	1:H:251:ILE:HG23	2.02	0.42
1:I:133:CYS:HB2	1:I:520:ALA:HB1	2.01	0.42
1:I:366:GLY:HA2	1:I:367:THR:HA	1.76	0.42
1:J:109:TRP:NE1	1:J:247:LEU:CD2	2.82	0.42
1:J:308:ILE:HA	1:J:309:ASN:CB	2.50	0.42
1:J:543:GLN:HA	1:J:546:VAL:HG12	2.02	0.42
1:K:109:TRP:O	1:K:209:TYR:HB3	2.20	0.42
1:K:173:LEU:CD1	1:6:511:TRP:HE1	2.29	0.42
1:K:316:ARG:HH22	1:0:98:ASN:ND2	2.18	0.42
1:K:322:ALA:HB3	1:0:100:SER:HB2	2.01	0.42
1:L:146:GLU:HA	1:L:147:ASN:HA	1.79	0.42
1:L:381:TRP:O	1:L:381:TRP:CD1	2.73	0.42
1:L:559:PRO:HA	1:L:560:GLY:HA3	1.80	0.42
1:M:100:SER:HB2	1:1:322:ALA:HB3	2.02	0.42
1:M:107:THR:OG1	1:M:108:PRO:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:346:GLY:CA	1:1:284:ARG:HD2	2.44	0.42
1:M:366:GLY:HA2	1:M:367:THR:HA	1.76	0.42
1:N:263:GLU:HA	1:N:264:SER:HA	1.76	0.42
1:N:308:ILE:HA	1:N:309:ASN:CB	2.50	0.42
1:N:449:TYR:CD1	1:N:450:PRO:HA	2.54	0.42
1:O:112:LEU:HD11	1:O:482:LEU:HD23	2.01	0.42
1:O:257:ARG:N	1:3:37:SER:HG	2.10	0.42
1:O:311:TRP:CZ3	1:g:377:ALA:HB2	2.54	0.42
1:O:357:GLN:CB	1:O:362:SER:HB3	2.48	0.42
1:R:225:ASP:CB	1:R:226:ARG:HB2	2.39	0.42
1:S:250:MET:HB2	1:S:251:ILE:HG23	2.01	0.42
1:S:333:TYR:CE2	1:S:335:TRP:CE3	3.06	0.42
1:S:397:ASN:HB2	1:S:399:GLU:N	2.35	0.42
1:T:377:ALA:HB2	1:f:311:TRP:CZ3	2.54	0.42
1:U:250:MET:HB2	1:U:251:ILE:HG23	2.02	0.42
1:U:354:PRO:HA	1:U:373:ALA:HB3	2.01	0.42
1:V:47:PHE:O	1:V:48:ILE:HD13	2.20	0.42
1:V:94:ARG:NE	1:X:423:SER:O	2.52	0.42
1:V:382:ASN:OD1	1:V:392:GLU:HG2	2.20	0.42
1:W:284:ARG:HD2	1:Y:346:GLY:CA	2.44	0.42
1:W:334:SER:OG	1:W:435:THR:OG1	2.18	0.42
1:X:109:TRP:O	1:X:209:TYR:HB3	2.20	0.42
1:X:418:ASN:OD1	1:X:419:ASP:N	2.53	0.42
1:Y:133:CYS:HB2	1:Y:520:ALA:HB1	2.01	0.42
1:Y:397:ASN:N	1:Y:398:ASN:HA	2.34	0.42
1:Z:71:MET:HB2	1:Z:75:ARG:HH22	1.85	0.42
1:Z:94:ARG:NE	1:w:423:SER:O	2.53	0.42
1:Z:118:GLY:HA2	1:Z:449:TYR:CE1	2.55	0.42
1:Z:307:ASN:C	1:x:391:ARG:HH12	2.28	0.42
1:0:418:ASN:OD1	1:0:419:ASP:N	2.53	0.42
1:0:423:SER:O	1:7:94:ARG:NE	2.52	0.42
1:1:47:PHE:O	1:1:48:ILE:HD13	2.20	0.42
1:1:112:LEU:HD11	1:1:482:LEU:HD23	2.01	0.42
1:1:115:ASN:O	1:1:454:ILE:HD12	2.19	0.42
1:1:382:ASN:OD1	1:1:392:GLU:HG2	2.19	0.42
1:1:397:ASN:HB2	1:1:399:GLU:N	2.35	0.42
1:1:418:ASN:OD1	1:1:419:ASP:N	2.53	0.42
1:2:335:TRP:HD1	1:2:337:GLU:HB3	1.85	0.42
1:2:423:SER:O	1:i:94:ARG:NE	2.53	0.42
1:2:449:TYR:CD1	1:2:450:PRO:HA	2.54	0.42
1:2:543:GLN:HA	1:2:546:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:109:TRP:NE1	1:3:247:LEU:CD2	2.82	0.42
1:3:115:ASN:O	1:3:454:ILE:HD12	2.19	0.42
1:3:343:SER:OG	1:3:344:THR:N	2.48	0.42
1:4:107:THR:OG1	1:4:108:PRO:HD2	2.20	0.42
1:5:43:ASN:HD22	1:5:200:PRO:HB3	1.84	0.42
1:5:335:TRP:HD1	1:5:337:GLU:HB3	1.85	0.42
1:5:382:ASN:OD1	1:5:392:GLU:HG2	2.20	0.42
1:a:107:THR:OG1	1:a:108:PRO:HD2	2.20	0.42
1:a:109:TRP:O	1:a:209:TYR:HB3	2.20	0.42
1:a:333:TYR:CE2	1:a:335:TRP:CE3	3.06	0.42
1:a:366:GLY:HA2	1:a:367:THR:HA	1.76	0.42
1:b:43:ASN:HD22	1:b:200:PRO:HB3	1.84	0.42
1:b:247:LEU:C	1:b:249:THR:N	2.78	0.42
1:b:335:TRP:HD1	1:b:337:GLU:HB3	1.85	0.42
1:b:557:TYR:CZ	1:b:559:PRO:HG3	2.54	0.42
1:c:418:ASN:OD1	1:c:419:ASP:N	2.53	0.42
1:d:107:THR:OG1	1:d:108:PRO:HD2	2.20	0.42
1:d:109:TRP:NE1	1:d:247:LEU:CD2	2.82	0.42
1:d:322:ALA:HB3	1:e:100:SER:HB2	2.02	0.42
1:d:381:TRP:O	1:d:381:TRP:CD1	2.73	0.42
1:e:118:GLY:HA2	1:e:449:TYR:CE1	2.55	0.42
1:e:382:ASN:OD1	1:e:392:GLU:HG2	2.19	0.42
1:f:112:LEU:HD11	1:f:482:LEU:HD23	2.01	0.42
1:f:335:TRP:HD1	1:f:337:GLU:HB3	1.85	0.42
1:f:561:ARG:HA	1:f:561:ARG:HD3	1.88	0.42
1:i:58:CYS:SG	1:i:516:MET:HB2	2.59	0.42
1:i:112:LEU:HD11	1:i:482:LEU:HD23	2.01	0.42
1:i:177:ALA:HB3	1:i:483:PHE:HB2	2.01	0.42
1:i:423:SER:O	1:j:94:ARG:NE	2.53	0.42
1:j:37:SER:HG	1:k:257:ARG:N	2.10	0.42
1:j:118:GLY:HA2	1:j:449:TYR:CE1	2.55	0.42
1:j:390:MET:HA	1:j:391:ARG:HA	1.72	0.42
1:m:354:PRO:HA	1:m:373:ALA:HB3	2.02	0.42
1:m:491:THR:OG1	1:m:502:SER:O	2.30	0.42
1:o:107:THR:OG1	1:o:108:PRO:HD2	2.20	0.42
1:o:379:TYR:CE1	1:o:451:TRP:CE2	3.07	0.42
1:p:308:ILE:HA	1:p:309:ASN:CB	2.50	0.42
1:p:379:TYR:CE1	1:p:451:TRP:CE2	3.07	0.42
1:p:381:TRP:O	1:p:381:TRP:CD1	2.73	0.42
1:q:109:TRP:O	1:q:209:TYR:HB3	2.20	0.42
1:q:177:ALA:HB3	1:q:483:PHE:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:133:CYS:HB2	1:r:520:ALA:HB1	2.01	0.42
1:r:381:TRP:O	1:r:381:TRP:CD1	2.73	0.42
1:t:47:PHE:O	1:t:48:ILE:HD13	2.20	0.42
1:t:134:ARG:O	1:t:276:LEU:N	2.32	0.42
1:t:412:ALA:O	1:u:340:ILE:N	2.53	0.42
1:t:449:TYR:CD1	1:t:450:PRO:HA	2.54	0.42
1:u:107:THR:OG1	1:u:108:PRO:HD2	2.20	0.42
1:u:382:ASN:OD1	1:u:392:GLU:HG2	2.19	0.42
1:u:418:ASN:OD1	1:u:419:ASP:N	2.53	0.42
1:v:35:GLY:C	1:w:257:ARG:HH11	2.17	0.42
1:v:43:ASN:HD22	1:v:200:PRO:HB3	1.84	0.42
1:v:250:MET:HB2	1:v:251:ILE:HG23	2.02	0.42
1:v:366:GLY:HA2	1:v:367:THR:HA	1.76	0.42
1:w:100:SER:HB2	1:x:322:ALA:HB3	2.02	0.42
1:w:379:TYR:CE1	1:w:451:TRP:CE2	3.07	0.42
1:x:71:MET:HB2	1:x:75:ARG:HH22	1.85	0.42
1:x:250:MET:HB2	1:x:251:ILE:HG23	2.02	0.42
1:y:112:LEU:HD11	1:y:482:LEU:HD23	2.01	0.42
1:y:225:ASP:HB2	1:y:226:ARG:CB	2.36	0.42
1:y:381:TRP:O	1:y:381:TRP:CD1	2.73	0.42
1:y:382:ASN:OD1	1:y:392:GLU:HG2	2.19	0.42
1:z:250:MET:HB2	1:z:251:ILE:HG23	2.02	0.42
1:z:397:ASN:HB2	1:z:399:GLU:N	2.35	0.42
1:6:308:ILE:HA	1:6:309:ASN:CB	2.50	0.42
1:6:354:PRO:HA	1:6:373:ALA:HB3	2.01	0.42
1:7:47:PHE:O	1:7:48:ILE:HD13	2.20	0.42
1:7:107:THR:OG1	1:7:108:PRO:HD2	2.20	0.42
1:7:308:ILE:HA	1:7:309:ASN:CB	2.50	0.42
1:7:335:TRP:HD1	1:7:337:GLU:HB3	1.85	0.42
1:7:374:THR:OG1	1:7:396:GLN:O	2.34	0.42
1:7:516:MET:O	1:7:517:ILE:HD13	2.20	0.42
1:A:75:ARG:HD2	1:B:549:ALA:O	2.20	0.41
1:A:318:ASN:HA	1:A:319:PRO:HA	1.81	0.41
1:A:334:SER:OG	1:A:435:THR:OG1	2.18	0.41
1:A:423:SER:O	1:G:94:ARG:NE	2.53	0.41
1:A:533:LEU:HD13	1:A:563:MET:HE1	2.01	0.41
1:B:307:ASN:C	1:J:391:ARG:HH12	2.28	0.41
1:B:335:TRP:HD1	1:B:337:GLU:HB3	1.85	0.41
1:B:439:TYR:CZ	1:J:469:ALA:HB2	2.50	0.41
1:C:94:ARG:NE	1:M:423:SER:O	2.53	0.41
1:C:308:ILE:HA	1:C:309:ASN:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:311:TRP:CZ3	1:1:377:ALA:HB2	2.54	0.41
1:C:397:ASN:HB2	1:C:399:GLU:N	2.35	0.41
1:D:177:ALA:HB3	1:D:483:PHE:HB2	2.01	0.41
1:E:133:CYS:HB2	1:E:520:ALA:HB1	2.01	0.41
1:E:308:ILE:HA	1:E:309:ASN:CB	2.50	0.41
1:E:379:TYR:CE1	1:E:451:TRP:CE2	3.07	0.41
1:E:391:ARG:HH12	1:F:307:ASN:C	2.28	0.41
1:F:107:THR:OG1	1:F:108:PRO:HD2	2.20	0.41
1:F:109:TRP:O	1:F:209:TYR:HB3	2.20	0.41
1:F:379:TYR:CE1	1:F:451:TRP:CE2	3.07	0.41
1:G:118:GLY:HA2	1:G:449:TYR:CE1	2.55	0.41
1:G:382:ASN:OD1	1:G:392:GLU:HG2	2.19	0.41
1:G:397:ASN:HB2	1:G:399:GLU:N	2.35	0.41
1:H:307:ASN:C	1:W:391:ARG:HH12	2.28	0.41
1:H:391:ARG:HH12	1:Y:307:ASN:C	2.28	0.41
1:I:47:PHE:O	1:I:48:ILE:HD13	2.20	0.41
1:I:107:THR:OG1	1:I:108:PRO:HD2	2.20	0.41
1:I:118:GLY:HA2	1:I:449:TYR:CE1	2.55	0.41
1:I:449:TYR:CD1	1:I:450:PRO:HA	2.54	0.41
1:K:107:THR:OG1	1:K:108:PRO:HD2	2.20	0.41
1:K:284:ARG:HD2	1:0:346:GLY:CA	2.44	0.41
1:L:308:ILE:HA	1:L:309:ASN:CB	2.50	0.41
1:L:557:TYR:CZ	1:L:559:PRO:HG3	2.54	0.41
1:M:543:GLN:HA	1:M:546:VAL:HG12	2.02	0.41
1:N:133:CYS:HB2	1:N:520:ALA:HB1	2.01	0.41
1:N:381:TRP:O	1:N:381:TRP:CD1	2.73	0.41
1:O:58:CYS:SG	1:O:516:MET:HB2	2.59	0.41
1:P:357:GLN:CB	1:P:362:SER:HB3	2.48	0.41
1:P:379:TYR:CE1	1:P:451:TRP:CE2	3.07	0.41
1:P:561:ARG:HA	1:P:561:ARG:HD3	1.88	0.41
1:Q:112:LEU:HD11	1:Q:482:LEU:HD23	2.01	0.41
1:R:107:THR:OG1	1:R:108:PRO:HD2	2.20	0.41
1:R:112:LEU:HD11	1:R:482:LEU:HD23	2.01	0.41
1:R:374:THR:OG1	1:R:396:GLN:O	2.34	0.41
1:R:382:ASN:OD1	1:R:392:GLU:HG2	2.19	0.41
1:R:397:ASN:N	1:R:398:ASN:HA	2.34	0.41
1:T:418:ASN:OD1	1:T:419:ASP:N	2.53	0.41
1:T:423:SER:O	1:3:94:ARG:NE	2.53	0.41
1:V:366:GLY:HA2	1:V:367:THR:HA	1.76	0.41
1:W:379:TYR:CE1	1:W:451:TRP:CE2	3.07	0.41
1:W:423:SER:O	1:Y:94:ARG:NE	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:100:SER:HB2	1:4:322:ALA:HB3	2.02	0.41
1:X:397:ASN:HB2	1:X:399:GLU:N	2.35	0.41
1:Y:118:GLY:HA2	1:Y:449:TYR:CE1	2.55	0.41
1:Y:250:MET:HB2	1:Y:251:ILE:HG23	2.01	0.41
1:Z:107:THR:OG1	1:Z:108:PRO:HD2	2.20	0.41
1:Z:133:CYS:HB2	1:Z:520:ALA:HB1	2.01	0.41
1:Z:298:GLU:HA	1:Z:299:GLY:HA2	1.56	0.41
1:Z:397:ASN:N	1:Z:398:ASN:HA	2.34	0.41
1:Z:423:SER:O	1:x:94:ARG:NE	2.53	0.41
1:0:118:GLY:HA2	1:0:449:TYR:CE1	2.55	0.41
1:0:308:ILE:HA	1:0:309:ASN:CB	2.50	0.41
1:1:107:THR:OG1	1:1:108:PRO:HD2	2.20	0.41
1:1:381:TRP:O	1:1:381:TRP:CD1	2.73	0.41
1:2:112:LEU:HD11	1:2:482:LEU:HD23	2.01	0.41
1:2:311:TRP:CZ3	1:i:377:ALA:HB2	2.54	0.41
1:3:118:GLY:HA2	1:3:449:TYR:CE1	2.55	0.41
1:3:307:ASN:C	1:f:391:ARG:HH12	2.28	0.41
1:3:379:TYR:CE1	1:3:451:TRP:CE2	3.07	0.41
1:4:109:TRP:O	1:4:209:TYR:HB3	2.20	0.41
1:4:133:CYS:HB2	1:4:520:ALA:HB1	2.01	0.41
1:4:381:TRP:O	1:4:381:TRP:CD1	2.73	0.41
1:5:221:ILE:HG22	1:a:429:ARG:CG	2.50	0.41
1:5:308:ILE:HA	1:5:309:ASN:CB	2.50	0.41
1:5:431:SER:OG	1:5:433:HIS:CD2	2.68	0.41
1:b:381:TRP:O	1:b:381:TRP:CD1	2.73	0.41
1:c:47:PHE:O	1:c:48:ILE:HD13	2.20	0.41
1:c:107:THR:OG1	1:c:108:PRO:HD2	2.20	0.41
1:c:115:ASN:O	1:c:454:ILE:HD12	2.19	0.41
1:c:381:TRP:O	1:c:381:TRP:CD1	2.73	0.41
1:c:382:ASN:OD1	1:c:392:GLU:HG2	2.19	0.41
1:c:439:TYR:CE1	1:d:469:ALA:CB	2.87	0.41
1:d:37:SER:HG	1:r:257:ARG:N	2.11	0.41
1:d:307:ASN:C	1:e:391:ARG:HH12	2.28	0.41
1:e:308:ILE:HA	1:e:309:ASN:CB	2.50	0.41
1:e:543:GLN:HA	1:e:546:VAL:HG12	2.02	0.41
1:g:284:ARG:HD2	1:h:346:GLY:CA	2.44	0.41
1:h:381:TRP:O	1:h:381:TRP:CD1	2.73	0.41
1:h:491:THR:OG1	1:h:502:SER:O	2.30	0.41
1:i:308:ILE:HA	1:i:309:ASN:CB	2.50	0.41
1:i:418:ASN:OD1	1:i:419:ASP:N	2.53	0.41
1:j:68:MET:CA	1:j:69:SER:HB3	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:109:TRP:NE1	1:j:247:LEU:CD2	2.82	0.41
1:j:115:ASN:O	1:j:454:ILE:HD12	2.19	0.41
1:j:379:TYR:CE1	1:j:451:TRP:CE2	3.07	0.41
1:k:112:LEU:HD11	1:k:482:LEU:HD23	2.01	0.41
1:k:516:MET:O	1:k:517:ILE:HD13	2.20	0.41
1:m:89:GLN:NE2	1:m:229:GLN:HB2	2.28	0.41
1:m:109:TRP:O	1:m:209:TYR:HB3	2.20	0.41
1:m:381:TRP:O	1:m:381:TRP:CD1	2.73	0.41
1:n:418:ASN:OD1	1:n:419:ASP:N	2.53	0.41
1:n:462:THR:OG1	1:p:443:ASP:OD1	2.37	0.41
1:o:109:TRP:O	1:o:209:TYR:HB3	2.20	0.41
1:o:307:ASN:C	1:p:391:ARG:HH12	2.28	0.41
1:o:354:PRO:HA	1:o:373:ALA:HB3	2.01	0.41
1:o:382:ASN:OD1	1:o:392:GLU:HG2	2.19	0.41
1:p:37:SER:HG	1:q:257:ARG:N	2.11	0.41
1:q:379:TYR:CE1	1:q:451:TRP:CE2	3.07	0.41
1:r:308:ILE:HA	1:r:309:ASN:CB	2.50	0.41
1:s:118:GLY:HA2	1:s:449:TYR:CE1	2.55	0.41
1:s:318:ASN:HA	1:s:319:PRO:HA	1.81	0.41
1:s:379:TYR:CE1	1:s:451:TRP:CE2	3.07	0.41
1:u:516:MET:O	1:u:517:ILE:HD13	2.20	0.41
1:v:71:MET:HB2	1:v:75:ARG:HH22	1.85	0.41
1:v:235:LYS:HA	1:v:236:GLY:HA2	1.90	0.41
1:v:382:ASN:OD1	1:v:392:GLU:HG2	2.19	0.41
1:w:381:TRP:O	1:w:381:TRP:CD1	2.73	0.41
1:w:559:PRO:HA	1:w:560:GLY:HA3	1.80	0.41
1:x:107:THR:OG1	1:x:108:PRO:HD2	2.20	0.41
1:x:134:ARG:O	1:x:276:LEU:N	2.32	0.41
1:x:177:ALA:HB3	1:x:483:PHE:HB2	2.01	0.41
1:x:343:SER:OG	1:x:344:THR:N	2.48	0.41
1:y:43:ASN:HD22	1:y:200:PRO:HB3	1.84	0.41
1:y:397:ASN:N	1:y:398:ASN:HA	2.34	0.41
1:6:109:TRP:O	1:6:209:TYR:HB3	2.20	0.41
1:6:118:GLY:HA2	1:6:449:TYR:CE1	2.55	0.41
1:7:43:ASN:HD22	1:7:200:PRO:HB3	1.84	0.41
1:7:133:CYS:HB2	1:7:520:ALA:HB1	2.01	0.41
1:A:311:TRP:CE3	1:G:377:ALA:HB2	2.56	0.41
1:A:354:PRO:HA	1:A:373:ALA:HB3	2.02	0.41
1:A:357:GLN:CB	1:A:362:SER:HB3	2.48	0.41
1:A:382:ASN:OD1	1:A:392:GLU:HG2	2.20	0.41
1:A:516:MET:O	1:A:517:ILE:HD13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:TRP:O	1:B:209:TYR:HB3	2.20	0.41
1:B:322:ALA:HB3	1:J:100:SER:HB2	2.02	0.41
1:B:557:TYR:CZ	1:B:559:PRO:HG3	2.54	0.41
1:C:334:SER:HG	1:C:435:THR:CB	2.26	0.41
1:C:543:GLN:HA	1:C:546:VAL:HG12	2.02	0.41
1:D:257:ARG:N	1:E:37:SER:HG	2.11	0.41
1:D:335:TRP:HD1	1:D:337:GLU:HB3	1.85	0.41
1:D:379:TYR:CE1	1:D:451:TRP:CE2	3.07	0.41
1:E:107:THR:OG1	1:E:108:PRO:HD2	2.20	0.41
1:E:148:ILE:O	1:E:258:THR:HG23	2.21	0.41
1:E:307:ASN:C	1:Q:391:ARG:HH12	2.28	0.41
1:F:308:ILE:HA	1:F:309:ASN:CB	2.50	0.41
1:F:354:PRO:HA	1:F:373:ALA:HB3	2.01	0.41
1:F:381:TRP:O	1:F:381:TRP:CD1	2.73	0.41
1:F:382:ASN:OD1	1:F:392:GLU:HG2	2.19	0.41
1:F:391:ARG:HH12	1:Q:307:ASN:C	2.28	0.41
1:G:43:ASN:HD22	1:G:200:PRO:HB3	1.84	0.41
1:G:449:TYR:CD1	1:G:450:PRO:HA	2.54	0.41
1:H:94:ARG:NE	1:Y:423:SER:O	2.53	0.41
1:H:177:ALA:HB3	1:H:483:PHE:HB2	2.01	0.41
1:H:322:ALA:HB3	1:W:100:SER:HB2	2.02	0.41
1:I:397:ASN:HB2	1:I:399:GLU:N	2.35	0.41
1:K:133:CYS:HB2	1:K:520:ALA:HB1	2.01	0.41
1:K:357:GLN:CB	1:K:362:SER:HB3	2.48	0.41
1:K:381:TRP:O	1:K:381:TRP:CD1	2.73	0.41
1:L:118:GLY:HA2	1:L:449:TYR:CE1	2.55	0.41
1:L:379:TYR:CE1	1:L:451:TRP:CE2	3.07	0.41
1:M:47:PHE:O	1:M:48:ILE:HD13	2.20	0.41
1:M:109:TRP:NE1	1:M:247:LEU:CD2	2.82	0.41
1:M:177:ALA:HB3	1:M:483:PHE:HB2	2.01	0.41
1:N:316:ARG:HH22	1:P:98:ASN:ND2	2.18	0.41
1:N:397:ASN:HB2	1:N:399:GLU:N	2.35	0.41
1:O:418:ASN:OD1	1:O:419:ASP:N	2.53	0.41
1:O:516:MET:O	1:O:517:ILE:HD13	2.20	0.41
1:P:68:MET:CA	1:P:69:SER:HB3	2.48	0.41
1:P:308:ILE:HA	1:P:309:ASN:CB	2.50	0.41
1:Q:335:TRP:HD1	1:Q:337:GLU:HB3	1.85	0.41
1:Q:418:ASN:OD1	1:Q:419:ASP:N	2.53	0.41
1:R:284:ARG:HD2	1:S:346:GLY:CA	2.44	0.41
1:S:133:CYS:HB2	1:S:520:ALA:HB1	2.01	0.41
1:S:335:TRP:HD1	1:S:337:GLU:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:418:ASN:OD1	1:S:419:ASP:N	2.53	0.41
1:T:58:CYS:SG	1:T:516:MET:HB2	2.59	0.41
1:V:68:MET:SD	1:V:503:ARG:NE	2.92	0.41
1:V:308:ILE:HA	1:V:309:ASN:CB	2.50	0.41
1:V:397:ASN:HB2	1:V:399:GLU:N	2.35	0.41
1:V:418:ASN:OD1	1:V:419:ASP:N	2.53	0.41
1:W:381:TRP:O	1:W:381:TRP:CD1	2.73	0.41
1:X:98:ASN:ND2	1:4:316:ARG:HH22	2.19	0.41
1:Y:71:MET:HB2	1:Y:75:ARG:HH22	1.85	0.41
1:Y:107:THR:OG1	1:Y:108:PRO:HD2	2.20	0.41
1:0:307:ASN:C	1:7:391:ARG:HH12	2.28	0.41
1:2:94:ARG:NE	1:j:423:SER:O	2.53	0.41
1:2:263:GLU:HA	1:2:264:SER:HA	1.76	0.41
1:2:391:ARG:HH12	1:j:307:ASN:C	2.28	0.41
1:2:418:ASN:OD1	1:2:419:ASP:N	2.53	0.41
1:5:68:MET:CA	1:5:69:SER:HB3	2.48	0.41
1:5:327:SER:HA	1:b:191:PHE:CE2	2.55	0.41
1:5:391:ARG:HH12	1:a:307:ASN:C	2.28	0.41
1:5:543:GLN:HA	1:5:546:VAL:HG12	2.02	0.41
1:a:335:TRP:HD1	1:a:337:GLU:HB3	1.85	0.41
1:a:374:THR:O	1:b:313:TRP:O	2.38	0.41
1:a:516:MET:O	1:a:517:ILE:HD13	2.20	0.41
1:b:308:ILE:HA	1:b:309:ASN:CB	2.50	0.41
1:b:379:TYR:CE1	1:b:451:TRP:CE2	3.07	0.41
1:c:98:ASN:ND2	1:e:316:ARG:HH22	2.18	0.41
1:e:47:PHE:O	1:e:48:ILE:HD13	2.20	0.41
1:f:418:ASN:OD1	1:f:419:ASP:N	2.53	0.41
1:g:245:THR:HA	1:g:246:PRO:HD2	1.50	0.41
1:g:543:GLN:HA	1:g:546:VAL:HG12	2.02	0.41
1:h:379:TYR:CE1	1:h:451:TRP:CE2	3.07	0.41
1:i:307:ASN:C	1:j:391:ARG:HH12	2.28	0.41
1:i:543:GLN:HA	1:i:546:VAL:HG12	2.02	0.41
1:j:308:ILE:HA	1:j:309:ASN:CB	2.50	0.41
1:k:47:PHE:O	1:k:48:ILE:HD13	2.20	0.41
1:k:58:CYS:SG	1:k:516:MET:HB2	2.59	0.41
1:k:84:LEU:HD23	1:k:84:LEU:HA	1.90	0.41
1:k:418:ASN:OD1	1:k:419:ASP:N	2.53	0.41
1:l:250:MET:HB2	1:l:251:ILE:HG23	2.02	0.41
1:l:311:TRP:CZ3	1:m:377:ALA:HB2	2.54	0.41
1:l:357:GLN:CB	1:l:362:SER:HB3	2.47	0.41
1:m:68:MET:CA	1:m:69:SER:HB3	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:308:ILE:HA	1:m:309:ASN:CB	2.50	0.41
1:n:112:LEU:HD11	1:n:482:LEU:HD23	2.01	0.41
1:n:307:ASN:C	1:o:391:ARG:HH12	2.28	0.41
1:n:334:SER:OG	1:n:435:THR:OG1	2.17	0.41
1:n:335:TRP:HD1	1:n:337:GLU:HB3	1.85	0.41
1:n:391:ARG:HH12	1:p:307:ASN:C	2.29	0.41
1:o:71:MET:HB2	1:o:75:ARG:HH22	1.85	0.41
1:o:308:ILE:HA	1:o:309:ASN:CB	2.50	0.41
1:p:71:MET:HB2	1:p:75:ARG:HH22	1.85	0.41
1:p:107:THR:OG1	1:p:108:PRO:HD2	2.20	0.41
1:q:335:TRP:HD1	1:q:337:GLU:HB3	1.85	0.41
1:r:307:ASN:C	1:s:391:ARG:HH12	2.28	0.41
1:r:423:SER:O	1:s:94:ARG:NE	2.53	0.41
1:r:533:LEU:HD13	1:r:563:MET:HE1	2.00	0.41
1:s:308:ILE:HA	1:s:309:ASN:CB	2.50	0.41
1:t:107:THR:OG1	1:t:108:PRO:HD2	2.20	0.41
1:t:118:GLY:HA2	1:t:449:TYR:CE1	2.55	0.41
1:t:133:CYS:HB2	1:t:520:ALA:HB1	2.01	0.41
1:t:308:ILE:HG21	1:u:192:TYR:HD1	1.83	0.41
1:u:68:MET:CA	1:u:69:SER:HB3	2.48	0.41
1:u:133:CYS:HB2	1:u:520:ALA:HB1	2.01	0.41
1:u:316:ARG:HH22	1:v:98:ASN:ND2	2.19	0.41
1:u:366:GLY:HA2	1:u:367:THR:HA	1.76	0.41
1:u:533:LEU:HD13	1:u:563:MET:HE1	2.00	0.41
1:v:118:GLY:HA2	1:v:449:TYR:CE1	2.55	0.41
1:v:397:ASN:HB2	1:v:399:GLU:N	2.35	0.41
1:v:449:TYR:CD1	1:v:450:PRO:HA	2.54	0.41
1:w:391:ARG:HH12	1:x:307:ASN:C	2.28	0.41
1:x:418:ASN:OD1	1:x:419:ASP:N	2.53	0.41
1:y:68:MET:SD	1:y:503:ARG:NE	2.92	0.41
1:y:107:THR:OG1	1:y:108:PRO:HD2	2.20	0.41
1:y:357:GLN:CB	1:y:362:SER:HB3	2.47	0.41
1:z:133:CYS:HB2	1:z:520:ALA:HB1	2.01	0.41
1:7:68:MET:SD	1:7:503:ARG:NE	2.92	0.41
1:A:133:CYS:HB2	1:A:520:ALA:HB1	2.01	0.41
1:A:257:ARG:HH11	1:B:35:GLY:C	2.15	0.41
1:A:335:TRP:HD1	1:A:337:GLU:HB3	1.85	0.41
1:A:462:THR:OG1	1:I:443:ASP:OD1	2.37	0.41
1:B:516:MET:O	1:B:517:ILE:HD13	2.20	0.41
1:C:47:PHE:O	1:C:48:ILE:HD13	2.21	0.41
1:D:107:THR:OG1	1:D:108:PRO:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:112:LEU:HD11	1:E:482:LEU:HD23	2.01	0.41
1:E:443:ASP:OD1	1:Q:462:THR:OG1	2.37	0.41
1:F:263:GLU:HA	1:F:264:SER:HA	1.76	0.41
1:H:71:MET:HB2	1:H:75:ARG:HH22	1.85	0.41
1:H:118:GLY:HA2	1:H:449:TYR:CE1	2.55	0.41
1:H:343:SER:OG	1:H:344:THR:N	2.48	0.41
1:J:43:ASN:HD22	1:J:200:PRO:HB3	1.84	0.41
1:J:65:HIS:HD2	1:J:205:LYS:HE2	1.86	0.41
1:J:68:MET:CA	1:J:69:SER:HB3	2.48	0.41
1:J:381:TRP:O	1:J:381:TRP:CD1	2.73	0.41
1:J:423:SER:O	1:L:94:ARG:NE	2.53	0.41
1:M:418:ASN:OD1	1:M:419:ASP:N	2.53	0.41
1:N:68:MET:CA	1:N:69:SER:HB3	2.48	0.41
1:N:307:ASN:C	1:P:391:ARG:HH12	2.28	0.41
1:N:423:SER:O	1:P:94:ARG:NE	2.53	0.41
1:N:533:LEU:HD13	1:N:563:MET:HE1	2.01	0.41
1:O:47:PHE:O	1:O:48:ILE:HD13	2.20	0.41
1:O:98:ASN:ND2	1:h:316:ARG:HH22	2.19	0.41
1:O:134:ARG:O	1:O:276:LEU:N	2.32	0.41
1:O:397:ASN:HB2	1:O:399:GLU:N	2.35	0.41
1:Q:65:HIS:HD2	1:Q:205:LYS:HE2	1.85	0.41
1:R:100:SER:HB2	1:U:322:ALA:HB3	2.01	0.41
1:R:516:MET:O	1:R:517:ILE:HD13	2.20	0.41
1:R:559:PRO:HA	1:R:560:GLY:HA3	1.80	0.41
1:S:109:TRP:O	1:S:209:TYR:HB3	2.19	0.41
1:T:148:ILE:O	1:T:258:THR:HG23	2.21	0.41
1:T:307:ASN:C	1:3:391:ARG:HH12	2.28	0.41
1:U:37:SER:HG	1:4:257:ARG:N	2.10	0.41
1:U:109:TRP:O	1:U:209:TYR:HB3	2.20	0.41
1:U:118:GLY:HA2	1:U:449:TYR:CE1	2.55	0.41
1:U:381:TRP:O	1:U:381:TRP:CD1	2.73	0.41
1:U:397:ASN:HB2	1:U:399:GLU:N	2.35	0.41
1:V:43:ASN:HD22	1:V:200:PRO:HB3	1.84	0.41
1:V:47:PHE:HE2	1:V:128:GLN:CB	2.34	0.41
1:V:146:GLU:HA	1:V:147:ASN:HA	1.79	0.41
1:V:391:ARG:HH12	1:X:307:ASN:C	2.29	0.41
1:W:247:LEU:C	1:W:249:THR:N	2.78	0.41
1:W:418:ASN:OD1	1:W:419:ASP:N	2.53	0.41
1:X:107:THR:OG1	1:X:108:PRO:HD2	2.20	0.41
1:X:118:GLY:HA2	1:X:449:TYR:CE1	2.55	0.41
1:X:308:ILE:HA	1:X:309:ASN:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:247:LEU:C	1:Y:249:THR:N	2.78	0.41
1:Y:418:ASN:OD1	1:Y:419:ASP:N	2.53	0.41
1:Z:247:LEU:C	1:Z:249:THR:N	2.78	0.41
1:Z:250:MET:HB2	1:Z:251:ILE:HG23	2.02	0.41
1:Z:418:ASN:OD1	1:Z:419:ASP:N	2.53	0.41
1:0:107:THR:OG1	1:0:108:PRO:HD2	2.20	0.41
1:0:316:ARG:HH22	1:7:98:ASN:ND2	2.18	0.41
1:0:397:ASN:HB2	1:0:399:GLU:N	2.35	0.41
1:0:543:GLN:HA	1:0:546:VAL:HG12	2.02	0.41
1:3:68:MET:CA	1:3:69:SER:HB3	2.48	0.41
1:3:107:THR:OG1	1:3:108:PRO:HD2	2.20	0.41
1:3:250:MET:HB2	1:3:251:ILE:HG23	2.02	0.41
1:3:308:ILE:HA	1:3:309:ASN:CB	2.50	0.41
1:3:418:ASN:OD1	1:3:419:ASP:N	2.53	0.41
1:3:423:SER:O	1:f:94:ARG:NE	2.53	0.41
1:4:68:MET:CA	1:4:69:SER:HB3	2.48	0.41
1:4:139:SER:O	1:4:269:PHE:N	2.45	0.41
1:5:65:HIS:HD2	1:5:205:LYS:HE2	1.86	0.41
1:a:557:TYR:CZ	1:a:559:PRO:HG3	2.54	0.41
1:b:118:GLY:HA2	1:b:449:TYR:CE1	2.55	0.41
1:b:333:TYR:CE2	1:b:335:TRP:CE3	3.06	0.41
1:b:390:MET:HA	1:b:391:ARG:HA	1.72	0.41
1:b:449:TYR:CD1	1:b:450:PRO:HA	2.54	0.41
1:c:148:ILE:O	1:c:258:THR:HG23	2.21	0.41
1:c:250:MET:HB2	1:c:251:ILE:HG23	2.01	0.41
1:c:334:SER:HG	1:c:435:THR:CB	2.27	0.41
1:d:47:PHE:O	1:d:48:ILE:HD13	2.20	0.41
1:d:177:ALA:HB3	1:d:483:PHE:HB2	2.01	0.41
1:e:109:TRP:HZ3	1:e:485:LYS:CB	2.27	0.41
1:e:516:MET:O	1:e:517:ILE:HD13	2.20	0.41
1:g:250:MET:HB2	1:g:251:ILE:HG23	2.02	0.41
1:h:109:TRP:O	1:h:209:TYR:HB3	2.20	0.41
1:h:308:ILE:HA	1:h:309:ASN:CB	2.50	0.41
1:h:431:SER:OG	1:h:433:HIS:CD2	2.68	0.41
1:j:107:THR:OG1	1:j:108:PRO:HD2	2.20	0.41
1:j:418:ASN:OD1	1:j:419:ASP:N	2.53	0.41
1:j:516:MET:O	1:j:517:ILE:HD13	2.20	0.41
1:k:397:ASN:HB2	1:k:399:GLU:N	2.35	0.41
1:k:423:SER:O	1:l:94:ARG:NE	2.53	0.41
1:l:47:PHE:HE2	1:l:128:GLN:CB	2.34	0.41
1:l:543:GLN:HA	1:l:546:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:97:ILE:CG2	1:m:340:ILE:HD12	2.49	0.41
1:m:148:ILE:O	1:m:258:THR:HG23	2.21	0.41
1:m:379:TYR:CE1	1:m:451:TRP:CE2	3.07	0.41
1:n:65:HIS:HD2	1:n:205:LYS:HE2	1.86	0.41
1:n:100:SER:HB2	1:p:322:ALA:HB3	2.02	0.41
1:p:112:LEU:HD11	1:p:482:LEU:HD23	2.01	0.41
1:q:107:THR:OG1	1:q:108:PRO:HD2	2.20	0.41
1:r:316:ARG:HH22	1:s:98:ASN:ND2	2.18	0.41
1:u:335:TRP:HD1	1:u:337:GLU:HB3	1.85	0.41
1:u:354:PRO:HA	1:u:373:ALA:HB3	2.02	0.41
1:u:357:GLN:CB	1:u:362:SER:HB3	2.48	0.41
1:v:263:GLU:HA	1:v:264:SER:HA	1.76	0.41
1:w:118:GLY:HA2	1:w:449:TYR:CE1	2.55	0.41
1:w:247:LEU:C	1:w:249:THR:N	2.78	0.41
1:w:418:ASN:OD1	1:w:419:ASP:N	2.53	0.41
1:x:118:GLY:HA2	1:x:449:TYR:CE1	2.55	0.41
1:y:516:MET:O	1:y:517:ILE:HD13	2.20	0.41
1:z:418:ASN:OD1	1:z:419:ASP:N	2.53	0.41
1:6:47:PHE:HE2	1:6:128:GLN:CB	2.34	0.41
1:6:333:TYR:CE2	1:6:335:TRP:CE3	3.06	0.41
1:7:65:HIS:HD2	1:7:205:LYS:HE2	1.86	0.41
1:7:397:ASN:HB2	1:7:399:GLU:N	2.35	0.41
1:A:47:PHE:HE2	1:A:128:GLN:CB	2.34	0.41
1:A:322:ALA:HB3	1:G:100:SER:HB2	2.02	0.41
1:A:346:GLY:CA	1:I:284:ARG:HD2	2.44	0.41
1:B:382:ASN:OD1	1:B:392:GLU:HG2	2.19	0.41
1:C:109:TRP:HZ3	1:C:485:LYS:CB	2.27	0.41
1:C:391:ARG:HH12	1:M:307:ASN:C	2.29	0.41
1:C:516:MET:O	1:C:517:ILE:HD13	2.20	0.41
1:D:68:MET:SD	1:D:503:ARG:NE	2.92	0.41
1:D:118:GLY:HA2	1:D:449:TYR:CE1	2.55	0.41
1:E:71:MET:HB2	1:E:75:ARG:HH22	1.86	0.41
1:E:134:ARG:O	1:E:276:LEU:N	2.32	0.41
1:E:322:ALA:HB3	1:Q:100:SER:HB2	2.02	0.41
1:F:298:GLU:HA	1:F:299:GLY:HA2	1.56	0.41
1:G:235:LYS:HA	1:G:236:GLY:HA2	1.90	0.41
1:G:397:ASN:N	1:G:398:ASN:HA	2.34	0.41
1:H:100:SER:HB2	1:Y:322:ALA:HB3	2.02	0.41
1:H:335:TRP:HD1	1:H:337:GLU:HB3	1.85	0.41
1:H:397:ASN:HB2	1:H:399:GLU:N	2.35	0.41
1:H:418:ASN:OD1	1:H:419:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:47:PHE:HE2	1:J:128:GLN:CB	2.34	0.41
1:K:47:PHE:O	1:K:48:ILE:HD13	2.20	0.41
1:K:65:HIS:HD2	1:K:205:LYS:HE2	1.85	0.41
1:K:68:MET:CA	1:K:69:SER:HB3	2.48	0.41
1:K:98:ASN:ND2	1:7:316:ARG:HH22	2.18	0.41
1:K:139:SER:O	1:K:269:PHE:N	2.45	0.41
1:K:391:ARG:HH12	1:7:307:ASN:C	2.28	0.41
1:L:333:TYR:CE2	1:L:335:TRP:CE3	3.06	0.41
1:L:390:MET:HA	1:L:391:ARG:HA	1.72	0.41
1:L:449:TYR:CD1	1:L:450:PRO:HA	2.54	0.41
1:N:543:GLN:HA	1:N:546:VAL:HG12	2.02	0.41
1:P:65:HIS:HD2	1:P:205:LYS:HE2	1.86	0.41
1:R:118:GLY:HA2	1:R:449:TYR:CE1	2.55	0.41
1:R:322:ALA:HB3	1:S:100:SER:HB2	2.02	0.41
1:S:423:SER:O	1:U:94:ARG:NE	2.53	0.41
1:T:533:LEU:HD13	1:T:563:MET:HE1	2.00	0.41
1:T:543:GLN:HA	1:T:546:VAL:HG12	2.02	0.41
1:V:65:HIS:HD2	1:V:205:LYS:HE2	1.86	0.41
1:V:98:ASN:ND2	1:X:316:ARG:HH22	2.18	0.41
1:V:307:ASN:C	1:4:391:ARG:HH12	2.28	0.41
1:V:374:THR:OG1	1:V:396:GLN:O	2.34	0.41
1:W:65:HIS:HD2	1:W:205:LYS:HE2	1.86	0.41
1:W:118:GLY:HA2	1:W:449:TYR:CE1	2.55	0.41
1:X:133:CYS:HB2	1:X:520:ALA:HB1	2.01	0.41
1:X:543:GLN:HA	1:X:546:VAL:HG12	2.02	0.41
1:Y:47:PHE:HE2	1:Y:128:GLN:CB	2.34	0.41
1:Z:322:ALA:HB3	1:x:100:SER:HB2	2.01	0.41
1:0:133:CYS:HB2	1:0:520:ALA:HB1	2.01	0.41
1:1:109:TRP:O	1:1:209:TYR:HB3	2.20	0.41
1:1:133:CYS:HB2	1:1:520:ALA:HB1	2.01	0.41
1:1:148:ILE:O	1:1:258:THR:HG23	2.21	0.41
1:2:109:TRP:NE1	1:2:247:LEU:CD2	2.82	0.41
1:3:516:MET:O	1:3:517:ILE:HD13	2.20	0.41
1:4:115:ASN:O	1:4:454:ILE:HD12	2.19	0.41
1:4:357:GLN:CB	1:4:362:SER:HB3	2.48	0.41
1:4:418:ASN:OD1	1:4:419:ASP:N	2.53	0.41
1:5:107:THR:OG1	1:5:108:PRO:HD2	2.20	0.41
1:5:381:TRP:O	1:5:381:TRP:CD1	2.73	0.41
1:c:133:CYS:HB2	1:c:520:ALA:HB1	2.01	0.41
1:c:559:PRO:HA	1:c:560:GLY:HA3	1.80	0.41
1:d:418:ASN:OD1	1:d:419:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:423:SER:O	1:e:94:ARG:NE	2.53	0.41
1:d:516:MET:O	1:d:517:ILE:HD13	2.20	0.41
1:e:65:HIS:HD2	1:e:205:LYS:HE2	1.86	0.41
1:e:257:ARG:HH11	1:q:35:GLY:C	2.17	0.41
1:g:311:TRP:CZ3	1:h:377:ALA:HB2	2.54	0.41
1:g:354:PRO:HA	1:g:373:ALA:HB3	2.02	0.41
1:g:381:TRP:O	1:g:381:TRP:CD1	2.73	0.41
1:h:97:ILE:CG2	1:h:340:ILE:HD12	2.49	0.41
1:h:148:ILE:O	1:h:258:THR:HG23	2.21	0.41
1:h:418:ASN:OD1	1:h:419:ASP:N	2.53	0.41
1:i:148:ILE:O	1:i:258:THR:HG23	2.21	0.41
1:i:334:SER:HG	1:i:435:THR:CB	2.27	0.41
1:i:533:LEU:HD13	1:i:563:MET:HE1	2.01	0.41
1:j:47:PHE:O	1:j:48:ILE:HD13	2.20	0.41
1:j:66:ILE:O	1:j:508:GLY:N	2.48	0.41
1:j:148:ILE:O	1:j:258:THR:HG23	2.21	0.41
1:j:250:MET:HB2	1:j:251:ILE:HG23	2.02	0.41
1:k:225:ASP:CB	1:k:226:ARG:HB2	2.39	0.41
1:k:307:ASN:C	1:l:391:ARG:HH12	2.28	0.41
1:k:327:SER:HA	1:l:191:PHE:CE2	2.56	0.41
1:l:354:PRO:HA	1:l:373:ALA:HB3	2.01	0.41
1:l:381:TRP:O	1:l:381:TRP:CD1	2.73	0.41
1:m:333:TYR:CE2	1:m:335:TRP:CE3	3.06	0.41
1:m:418:ASN:OD1	1:m:419:ASP:N	2.53	0.41
1:o:381:TRP:O	1:o:381:TRP:CD1	2.73	0.41
1:p:148:ILE:O	1:p:258:THR:HG23	2.21	0.41
1:q:68:MET:SD	1:q:503:ARG:NE	2.92	0.41
1:r:109:TRP:NE1	1:r:247:LEU:CD2	2.82	0.41
1:r:397:ASN:HB2	1:r:399:GLU:N	2.35	0.41
1:s:65:HIS:HD2	1:s:205:LYS:HE2	1.86	0.41
1:s:107:THR:OG1	1:s:108:PRO:HD2	2.20	0.41
1:s:397:ASN:HB2	1:s:399:GLU:N	2.35	0.41
1:t:43:ASN:HD22	1:t:200:PRO:HB3	1.84	0.41
1:t:366:GLY:HA2	1:t:367:THR:HA	1.76	0.41
1:t:397:ASN:HB2	1:t:399:GLU:N	2.35	0.41
1:w:65:HIS:HD2	1:w:205:LYS:HE2	1.86	0.41
1:w:354:PRO:HA	1:w:373:ALA:HB3	2.01	0.41
1:x:47:PHE:HE2	1:x:128:GLN:CB	2.34	0.41
1:x:335:TRP:HD1	1:x:337:GLU:HB3	1.85	0.41
1:x:397:ASN:HB2	1:x:399:GLU:N	2.35	0.41
1:y:118:GLY:HA2	1:y:449:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:322:ALA:HB3	1:z:100:SER:HB2	2.02	0.41
1:z:109:TRP:O	1:z:209:TYR:HB3	2.20	0.41
1:z:335:TRP:HD1	1:z:337:GLU:HB3	1.85	0.41
1:z:423:SER:O	1:6:94:ARG:NE	2.53	0.41
1:6:381:TRP:O	1:6:381:TRP:CD1	2.73	0.41
1:7:47:PHE:HE2	1:7:128:GLN:CB	2.34	0.41
1:7:418:ASN:OD1	1:7:419:ASP:N	2.53	0.41
1:A:98:ASN:ND2	1:I:316:ARG:HH22	2.18	0.41
1:A:191:PHE:CE2	1:I:327:SER:HA	2.56	0.41
1:B:357:GLN:CB	1:B:362:SER:HB3	2.47	0.41
1:C:57:ILE:HG12	1:C:517:ILE:CD1	2.51	0.41
1:C:68:MET:SD	1:C:503:ARG:NE	2.92	0.41
1:C:307:ASN:C	1:1:391:ARG:HH12	2.29	0.41
1:C:335:TRP:HD1	1:C:337:GLU:HB3	1.85	0.41
1:C:381:TRP:O	1:C:381:TRP:CD1	2.73	0.41
1:D:250:MET:HB2	1:D:251:ILE:HG23	2.02	0.41
1:D:333:TYR:CE2	1:D:335:TRP:CE3	3.06	0.41
1:E:67:ASN:OD1	1:E:67:ASN:N	2.54	0.41
1:F:112:LEU:HD11	1:F:482:LEU:HD23	2.01	0.41
1:H:47:PHE:HE2	1:H:128:GLN:CB	2.34	0.41
1:H:57:ILE:HG12	1:H:517:ILE:CD1	2.51	0.41
1:H:366:GLY:HA2	1:H:367:THR:HA	1.76	0.41
1:H:423:SER:O	1:W:94:ARG:NE	2.53	0.41
1:I:43:ASN:HD22	1:I:200:PRO:HB3	1.84	0.41
1:I:47:PHE:HE2	1:I:128:GLN:CB	2.34	0.41
1:J:107:THR:OG1	1:J:108:PRO:HD2	2.20	0.41
1:K:115:ASN:O	1:K:454:ILE:HD12	2.19	0.41
1:K:418:ASN:OD1	1:K:419:ASP:N	2.53	0.41
1:L:107:THR:OG1	1:L:108:PRO:HD2	2.20	0.41
1:L:397:ASN:HB2	1:L:399:GLU:N	2.35	0.41
1:L:418:ASN:OD1	1:L:419:ASP:N	2.53	0.41
1:M:65:HIS:HD2	1:M:205:LYS:HE2	1.86	0.41
1:M:354:PRO:HA	1:M:373:ALA:HB3	2.01	0.41
1:M:397:ASN:HB2	1:M:399:GLU:N	2.35	0.41
1:M:516:MET:O	1:M:517:ILE:HD13	2.20	0.41
1:N:322:ALA:HB3	1:P:100:SER:HB2	2.02	0.41
1:N:418:ASN:OD1	1:N:419:ASP:N	2.53	0.41
1:N:431:SER:OG	1:N:433:HIS:CD2	2.68	0.41
1:O:68:MET:SD	1:O:503:ARG:NE	2.92	0.41
1:O:107:THR:OG1	1:O:108:PRO:HD2	2.20	0.41
1:O:307:ASN:C	1:g:391:ARG:HH12	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:327:SER:HA	1:g:191:PHE:CE2	2.56	0.41
1:O:423:SER:O	1:g:94:ARG:NE	2.53	0.41
1:O:511:TRP:HE1	1:P:173:LEU:CD1	2.28	0.41
1:P:100:SER:O	1:P:100:SER:OG	2.23	0.41
1:R:109:TRP:O	1:R:209:TYR:HB3	2.20	0.41
1:R:146:GLU:HA	1:R:147:ASN:HA	1.79	0.41
1:R:357:GLN:CB	1:R:362:SER:HB3	2.47	0.41
1:T:71:MET:HB2	1:T:75:ARG:HH22	1.85	0.41
1:T:346:GLY:CA	1:f:284:ARG:HD2	2.44	0.41
1:U:47:PHE:HE2	1:U:128:GLN:CB	2.34	0.41
1:U:333:TYR:CE2	1:U:335:TRP:CE3	3.06	0.41
1:U:357:GLN:CB	1:U:362:SER:HB3	2.48	0.41
1:V:316:ARG:HH22	1:4:98:ASN:ND2	2.19	0.41
1:V:443:ASP:OD1	1:4:462:THR:OG1	2.37	0.41
1:W:335:TRP:HD1	1:W:337:GLU:HB3	1.85	0.41
1:X:34:VAL:CG2	1:5:36:HIS:CD2	2.91	0.41
1:X:57:ILE:HG12	1:X:517:ILE:CD1	2.51	0.41
1:Y:298:GLU:HA	1:Y:299:GLY:HA2	1.56	0.41
1:Z:397:ASN:HB2	1:Z:399:GLU:N	2.35	0.41
1:1:250:MET:HB2	1:1:251:ILE:HG23	2.02	0.41
1:2:47:PHE:O	1:2:48:ILE:HD13	2.20	0.41
1:2:284:ARG:HD2	1:i:346:GLY:CA	2.44	0.41
1:2:561:ARG:HA	1:2:561:ARG:HD3	1.88	0.41
1:3:47:PHE:O	1:3:48:ILE:HD13	2.20	0.41
1:3:148:ILE:O	1:3:258:THR:HG23	2.21	0.41
1:5:47:PHE:HE2	1:5:128:GLN:CB	2.34	0.41
1:5:318:ASN:HA	1:5:319:PRO:HA	1.81	0.41
1:a:47:PHE:O	1:a:48:ILE:HD13	2.20	0.41
1:b:84:LEU:HD23	1:b:84:LEU:HA	1.90	0.41
1:b:418:ASN:OD1	1:b:419:ASP:N	2.53	0.41
1:c:346:GLY:CA	1:e:284:ARG:HD2	2.44	0.41
1:d:65:HIS:HD2	1:d:205:LYS:HE2	1.86	0.41
1:d:366:GLY:HA2	1:d:367:THR:HA	1.76	0.41
1:d:397:ASN:HB2	1:d:399:GLU:N	2.35	0.41
1:e:57:ILE:HG12	1:e:517:ILE:CD1	2.51	0.41
1:e:335:TRP:HD1	1:e:337:GLU:HB3	1.85	0.41
1:e:381:TRP:O	1:e:381:TRP:CD1	2.73	0.41
1:f:47:PHE:O	1:f:48:ILE:HD13	2.20	0.41
1:f:109:TRP:NE1	1:f:247:LEU:CD2	2.82	0.41
1:g:47:PHE:HE2	1:g:128:GLN:CB	2.34	0.41
1:g:148:ILE:O	1:g:258:THR:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:247:LEU:C	1:g:249:THR:N	2.78	0.41
1:g:357:GLN:CB	1:g:362:SER:HB3	2.48	0.41
1:g:382:ASN:OD1	1:g:392:GLU:HG2	2.19	0.41
1:h:71:MET:HB2	1:h:75:ARG:HH22	1.85	0.41
1:k:68:MET:SD	1:k:503:ARG:NE	2.92	0.41
1:k:107:THR:OG1	1:k:108:PRO:HD2	2.20	0.41
1:l:133:CYS:HB2	1:l:520:ALA:HB1	2.01	0.41
1:l:148:ILE:O	1:l:258:THR:HG23	2.21	0.41
1:l:247:LEU:C	1:l:249:THR:N	2.78	0.41
1:l:307:ASN:C	1:m:391:ARG:HH12	2.28	0.41
1:l:382:ASN:OD1	1:l:392:GLU:HG2	2.19	0.41
1:m:43:ASN:HD22	1:m:200:PRO:HB3	1.84	0.41
1:m:71:MET:HB2	1:m:75:ARG:HH22	1.85	0.41
1:m:431:SER:OG	1:m:433:HIS:CD2	2.68	0.41
1:o:118:GLY:HA2	1:o:449:TYR:CE1	2.55	0.41
1:q:418:ASN:OD1	1:q:419:ASP:N	2.53	0.41
1:r:68:MET:CA	1:r:69:SER:HB3	2.48	0.41
1:r:431:SER:OG	1:r:433:HIS:CD2	2.68	0.41
1:r:543:GLN:HA	1:r:546:VAL:HG12	2.02	0.41
1:s:561:ARG:HA	1:s:561:ARG:HD3	1.88	0.41
1:t:47:PHE:HE2	1:t:128:GLN:CB	2.34	0.41
1:t:443:ASP:OD1	1:u:462:THR:OG1	2.37	0.41
1:u:47:PHE:HE2	1:u:128:GLN:CB	2.34	0.41
1:u:71:MET:HB2	1:u:75:ARG:HH22	1.85	0.41
1:u:148:ILE:O	1:u:258:THR:HG23	2.21	0.41
1:w:98:ASN:ND2	1:x:316:ARG:HH22	2.19	0.41
1:w:112:LEU:HD11	1:w:482:LEU:HD23	2.01	0.41
1:w:335:TRP:HD1	1:w:337:GLU:HB3	1.85	0.41
1:x:68:MET:SD	1:x:503:ARG:NE	2.92	0.41
1:y:225:ASP:CB	1:y:226:ARG:HB2	2.39	0.41
1:y:559:PRO:HA	1:y:560:GLY:HA3	1.80	0.41
1:6:177:ALA:HB3	1:6:483:PHE:HB2	2.01	0.41
1:6:357:GLN:CB	1:6:362:SER:HB3	2.48	0.41
1:A:65:HIS:HD2	1:A:205:LYS:HE2	1.86	0.41
1:A:71:MET:HB2	1:A:75:ARG:HH22	1.85	0.41
1:A:94:ARG:NE	1:I:423:SER:O	2.53	0.41
1:A:148:ILE:O	1:A:258:THR:HG23	2.21	0.41
1:B:47:PHE:O	1:B:48:ILE:HD13	2.20	0.41
1:B:57:ILE:HG12	1:B:517:ILE:CD1	2.51	0.41
1:B:98:ASN:ND2	1:L:316:ARG:HH22	2.18	0.41
1:B:391:ARG:HH12	1:L:307:ASN:C	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:65:HIS:HD2	1:C:205:LYS:HE2	1.86	0.41
1:C:257:ARG:HH11	1:D:35:GLY:C	2.18	0.41
1:C:284:ARG:HD2	1:1:346:GLY:CA	2.44	0.41
1:D:327:SER:HA	1:N:191:PHE:CE2	2.56	0.41
1:E:94:ARG:NE	1:F:423:SER:O	2.53	0.41
1:E:109:TRP:O	1:E:209:TYR:HB3	2.20	0.41
1:E:390:MET:HA	1:E:391:ARG:HA	1.72	0.41
1:F:65:HIS:HD2	1:F:205:LYS:HE2	1.86	0.41
1:G:57:ILE:HG12	1:G:517:ILE:CD1	2.51	0.41
1:G:327:SER:HA	1:I:191:PHE:CE2	2.56	0.41
1:H:257:ARG:HH11	1:Z:35:GLY:C	2.17	0.41
1:I:148:ILE:O	1:I:258:THR:HG23	2.21	0.41
1:I:543:GLN:HA	1:I:546:VAL:HG12	2.02	0.41
1:J:35:GLY:C	1:0:257:ARG:HH11	2.17	0.41
1:J:431:SER:OG	1:J:433:HIS:CD2	2.68	0.41
1:K:191:PHE:CE2	1:7:327:SER:HA	2.56	0.41
1:K:423:SER:O	1:0:94:ARG:NE	2.53	0.41
1:K:462:THR:OG1	1:7:443:ASP:OD1	2.37	0.41
1:L:84:LEU:HD23	1:L:84:LEU:HA	1.90	0.41
1:M:57:ILE:HG12	1:M:517:ILE:CD1	2.51	0.41
1:M:139:SER:O	1:M:269:PHE:N	2.45	0.41
1:M:469:ALA:CB	1:1:439:TYR:CE1	2.87	0.41
1:N:109:TRP:NE1	1:N:247:LEU:CD2	2.82	0.41
1:N:318:ASN:HA	1:N:319:PRO:HA	1.81	0.41
1:O:148:ILE:O	1:O:258:THR:HG23	2.21	0.41
1:P:57:ILE:HG12	1:P:517:ILE:CD1	2.51	0.41
1:P:107:THR:OG1	1:P:108:PRO:HD2	2.20	0.41
1:P:133:CYS:HB2	1:P:520:ALA:HB1	2.01	0.41
1:P:397:ASN:HB2	1:P:399:GLU:N	2.35	0.41
1:R:68:MET:SD	1:R:503:ARG:NE	2.92	0.41
1:R:423:SER:O	1:S:94:ARG:NE	2.53	0.41
1:S:379:TYR:CE1	1:S:451:TRP:CE2	3.07	0.41
1:T:57:ILE:HG12	1:T:517:ILE:CD1	2.51	0.41
1:U:543:GLN:HA	1:U:546:VAL:HG12	2.02	0.41
1:V:64:ILE:HG23	1:V:206:LEU:HD13	2.03	0.41
1:V:412:ALA:O	1:4:340:ILE:N	2.53	0.41
1:W:112:LEU:HD11	1:W:482:LEU:HD23	2.01	0.41
1:W:177:ALA:HB3	1:W:483:PHE:HB2	2.01	0.41
1:W:354:PRO:HA	1:W:373:ALA:HB3	2.01	0.41
1:Y:57:ILE:HG12	1:Y:517:ILE:CD1	2.51	0.41
1:Z:47:PHE:HE2	1:Z:128:GLN:CB	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:57:ILE:HG12	1:0:517:ILE:CD1	2.51	0.41
1:0:327:SER:HA	1:7:191:PHE:CE2	2.56	0.41
1:0:334:SER:HG	1:0:435:THR:CB	2.29	0.41
1:1:308:ILE:HA	1:1:309:ASN:CB	2.50	0.41
1:1:335:TRP:HD1	1:1:337:GLU:HB3	1.85	0.41
1:2:47:PHE:HE2	1:2:128:GLN:CB	2.34	0.41
1:2:107:THR:OG1	1:2:108:PRO:HD2	2.20	0.41
1:2:381:TRP:O	1:2:381:TRP:CD1	2.73	0.41
1:3:335:TRP:HD1	1:3:337:GLU:HB3	1.85	0.41
1:3:354:PRO:HA	1:3:373:ALA:HB3	2.02	0.41
1:4:47:PHE:O	1:4:48:ILE:HD13	2.20	0.41
1:4:65:HIS:HD2	1:4:205:LYS:HE2	1.86	0.41
1:5:112:LEU:HD11	1:5:482:LEU:HD23	2.01	0.41
1:5:263:GLU:HA	1:5:264:SER:HA	1.75	0.41
1:5:469:ALA:HB2	1:a:439:TYR:CZ	2.51	0.41
1:a:243:GLN:HG2	1:b:527:GLN:HE21	1.84	0.41
1:a:382:ASN:OD1	1:a:392:GLU:HG2	2.20	0.41
1:b:107:THR:OG1	1:b:108:PRO:HD2	2.20	0.41
1:b:397:ASN:HB2	1:b:399:GLU:N	2.35	0.41
1:c:84:LEU:HD23	1:c:84:LEU:HA	1.90	0.41
1:c:109:TRP:O	1:c:209:TYR:HB3	2.20	0.41
1:c:308:ILE:HA	1:c:309:ASN:CB	2.50	0.41
1:c:354:PRO:HA	1:c:373:ALA:HB3	2.02	0.41
1:d:308:ILE:HA	1:d:309:ASN:CB	2.50	0.41
1:f:47:PHE:HE2	1:f:128:GLN:CB	2.34	0.41
1:f:250:MET:HB2	1:f:251:ILE:HG23	2.02	0.41
1:f:381:TRP:O	1:f:381:TRP:CD1	2.73	0.41
1:g:65:HIS:HD2	1:g:205:LYS:HE2	1.85	0.41
1:g:327:SER:HA	1:h:191:PHE:CE2	2.56	0.41
1:g:335:TRP:HD1	1:g:337:GLU:HB3	1.85	0.41
1:h:65:HIS:HD2	1:h:205:LYS:HE2	1.86	0.41
1:h:139:SER:O	1:h:269:PHE:N	2.45	0.41
1:i:57:ILE:HG12	1:i:517:ILE:CD1	2.51	0.41
1:j:64:ILE:HG23	1:j:206:LEU:HD13	2.03	0.41
1:j:333:TYR:CE2	1:j:335:TRP:CE3	3.06	0.41
1:k:98:ASN:ND2	1:m:316:ARG:HH22	2.19	0.41
1:k:148:ILE:O	1:k:258:THR:HG23	2.21	0.41
1:k:245:THR:HA	1:k:246:PRO:HD2	1.50	0.41
1:m:65:HIS:HD2	1:m:205:LYS:HE2	1.86	0.41
1:n:47:PHE:HE2	1:n:128:GLN:CB	2.34	0.41
1:n:107:THR:OG1	1:n:108:PRO:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:65:HIS:HD2	1:o:205:LYS:HE2	1.86	0.41
1:o:112:LEU:HD11	1:o:482:LEU:HD23	2.01	0.41
1:o:146:GLU:HA	1:o:147:ASN:HA	1.79	0.41
1:p:67:ASN:OD1	1:p:67:ASN:N	2.54	0.41
1:p:109:TRP:O	1:p:209:TYR:HB3	2.20	0.41
1:q:118:GLY:HA2	1:q:449:TYR:CE1	2.55	0.41
1:q:250:MET:HB2	1:q:251:ILE:HG23	2.02	0.41
1:q:307:ASN:C	1:r:391:ARG:HH12	2.28	0.41
1:q:327:SER:HA	1:r:191:PHE:CE2	2.56	0.41
1:q:397:ASN:HB2	1:q:399:GLU:N	2.35	0.41
1:r:57:ILE:HG12	1:r:517:ILE:CD1	2.51	0.41
1:r:247:LEU:C	1:r:249:THR:N	2.78	0.41
1:r:418:ASN:OD1	1:r:419:ASP:N	2.53	0.41
1:s:57:ILE:HG12	1:s:517:ILE:CD1	2.51	0.41
1:t:109:TRP:NE1	1:t:247:LEU:CD2	2.82	0.41
1:t:191:PHE:CE2	1:v:327:SER:HA	2.56	0.41
1:t:382:ASN:OD1	1:t:392:GLU:HG2	2.19	0.41
1:u:322:ALA:HB3	1:v:100:SER:HB2	2.01	0.41
1:v:57:ILE:HG12	1:v:517:ILE:CD1	2.51	0.41
1:v:357:GLN:CB	1:v:362:SER:HB3	2.48	0.41
1:v:397:ASN:N	1:v:398:ASN:HA	2.34	0.41
1:w:47:PHE:HE2	1:w:128:GLN:CB	2.34	0.41
1:w:94:ARG:NE	1:x:423:SER:O	2.53	0.41
1:x:57:ILE:HG12	1:x:517:ILE:CD1	2.51	0.41
1:x:516:MET:O	1:x:517:ILE:HD13	2.19	0.41
1:y:100:SER:HB2	1:6:322:ALA:HB3	2.02	0.41
1:6:47:PHE:O	1:6:48:ILE:HD13	2.20	0.41
1:6:397:ASN:HB2	1:6:399:GLU:N	2.35	0.41
1:7:146:GLU:HA	1:7:147:ASN:HA	1.79	0.41
1:B:148:ILE:O	1:B:258:THR:HG23	2.21	0.41
1:D:47:PHE:O	1:D:48:ILE:HD13	2.20	0.41
1:D:57:ILE:HG12	1:D:517:ILE:CD1	2.51	0.41
1:D:64:ILE:HG23	1:D:206:LEU:HD13	2.03	0.41
1:D:219:ILE:HG22	1:D:232:GLU:HA	2.03	0.41
1:D:290:HIS:HB3	1:N:102:HIS:NE2	2.36	0.41
1:D:418:ASN:OD1	1:D:419:ASP:N	2.53	0.41
1:E:64:ILE:HG23	1:E:206:LEU:HD13	2.03	0.41
1:F:118:GLY:HA2	1:F:449:TYR:CE1	2.55	0.41
1:F:418:ASN:OD1	1:F:419:ASP:N	2.53	0.41
1:G:418:ASN:OD1	1:G:419:ASP:N	2.53	0.41
1:G:423:SER:O	1:I:94:ARG:NE	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:47:PHE:O	1:H:48:ILE:HD13	2.20	0.41
1:H:316:ARG:HH22	1:W:98:ASN:ND2	2.19	0.41
1:H:516:MET:O	1:H:517:ILE:HD13	2.20	0.41
1:I:109:TRP:NE1	1:I:247:LEU:CD2	2.82	0.41
1:K:47:PHE:HE2	1:K:128:GLN:CB	2.34	0.41
1:K:290:HIS:HB3	1:0:102:HIS:NE2	2.36	0.41
1:K:340:ILE:N	1:7:412:ALA:O	2.53	0.41
1:L:64:ILE:HG23	1:L:206:LEU:HD13	2.03	0.41
1:L:148:ILE:O	1:L:258:THR:HG23	2.21	0.41
1:M:308:ILE:HA	1:M:309:ASN:CB	2.50	0.41
1:N:47:PHE:O	1:N:48:ILE:HD13	2.21	0.41
1:N:247:LEU:C	1:N:249:THR:N	2.78	0.41
1:O:219:ILE:HG22	1:O:232:GLU:HA	2.03	0.41
1:O:245:THR:HA	1:O:246:PRO:HD2	1.50	0.41
1:O:381:TRP:O	1:O:381:TRP:CD1	2.73	0.41
1:Q:107:THR:OG1	1:Q:108:PRO:HD2	2.20	0.41
1:R:148:ILE:O	1:R:258:THR:HG23	2.21	0.41
1:R:418:ASN:OD1	1:R:419:ASP:N	2.53	0.41
1:S:107:THR:OG1	1:S:108:PRO:HD2	2.20	0.41
1:S:322:ALA:HB3	1:U:100:SER:HB2	2.02	0.41
1:T:334:SER:HG	1:T:435:THR:CB	2.27	0.41
1:U:47:PHE:O	1:U:48:ILE:HD13	2.20	0.41
1:U:177:ALA:HB3	1:U:483:PHE:HB2	2.01	0.41
1:U:247:LEU:C	1:U:249:THR:N	2.78	0.41
1:U:418:ASN:OD1	1:U:419:ASP:N	2.53	0.41
1:V:191:PHE:CE2	1:X:327:SER:HA	2.56	0.41
1:W:47:PHE:HE2	1:W:128:GLN:CB	2.34	0.41
1:W:97:ILE:CG2	1:W:340:ILE:HD12	2.49	0.41
1:X:68:MET:SD	1:X:503:ARG:NE	2.92	0.41
1:X:102:HIS:NE2	1:4:290:HIS:HB3	2.36	0.41
1:Y:148:ILE:O	1:Y:258:THR:HG23	2.21	0.41
1:Y:397:ASN:HB2	1:Y:399:GLU:N	2.35	0.41
1:Z:57:ILE:HG12	1:Z:517:ILE:CD1	2.51	0.41
1:Z:148:ILE:O	1:Z:258:THR:HG23	2.21	0.41
1:Z:173:LEU:CD1	1:0:511:TRP:HE1	2.30	0.41
1:0:68:MET:SD	1:0:503:ARG:NE	2.92	0.41
1:0:382:ASN:OD1	1:0:392:GLU:HG2	2.20	0.41
1:1:354:PRO:HA	1:1:373:ALA:HB3	2.01	0.41
1:2:307:ASN:C	1:i:391:ARG:HH12	2.28	0.41
1:2:322:ALA:HB3	1:i:100:SER:HB2	2.02	0.41
1:3:333:TYR:CE2	1:3:335:TRP:CE3	3.06	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:47:PHE:O	1:5:48:ILE:HD13	2.20	0.41
1:5:98:ASN:ND2	1:a:316:ARG:HH22	2.19	0.41
1:5:100:SER:HB2	1:a:322:ALA:HB3	2.02	0.41
1:a:57:ILE:HG12	1:a:517:ILE:CD1	2.51	0.41
1:a:357:GLN:CB	1:a:362:SER:HB3	2.48	0.41
1:b:57:ILE:HG12	1:b:517:ILE:CD1	2.51	0.41
1:b:64:ILE:HG23	1:b:206:LEU:HD13	2.03	0.41
1:c:391:ARG:HH12	1:e:307:ASN:C	2.29	0.41
1:d:57:ILE:HG12	1:d:517:ILE:CD1	2.51	0.41
1:d:354:PRO:HA	1:d:373:ALA:HB3	2.01	0.41
1:f:256:LEU:HD11	1:f:262:TRP:CB	2.49	0.41
1:g:133:CYS:HB2	1:g:520:ALA:HB1	2.01	0.41
1:g:307:ASN:C	1:h:391:ARG:HH12	2.28	0.41
1:h:43:ASN:HD22	1:h:200:PRO:HB3	1.84	0.41
1:h:219:ILE:HG22	1:h:232:GLU:HA	2.03	0.41
1:h:333:TYR:CE2	1:h:335:TRP:CE3	3.06	0.41
1:i:71:MET:HB2	1:i:75:ARG:HH22	1.85	0.41
1:j:257:ARG:HH11	1:z:35:GLY:C	2.18	0.41
1:j:318:ASN:HA	1:j:319:PRO:HA	1.81	0.41
1:j:559:PRO:HA	1:j:560:GLY:HA3	1.80	0.41
1:k:37:SER:HG	1:s:257:ARG:N	2.11	0.41
1:k:100:SER:HB2	1:m:322:ALA:HB3	2.02	0.41
1:k:219:ILE:HG22	1:k:232:GLU:HA	2.03	0.41
1:l:335:TRP:HD1	1:l:337:GLU:HB3	1.85	0.41
1:m:219:ILE:HG22	1:m:232:GLU:HA	2.03	0.41
1:m:516:MET:O	1:m:517:ILE:HD13	2.20	0.41
1:n:219:ILE:HG22	1:n:232:GLU:HA	2.03	0.41
1:o:423:SER:O	1:p:94:ARG:NE	2.53	0.41
1:p:64:ILE:HG23	1:p:206:LEU:HD13	2.03	0.41
1:p:65:HIS:HD2	1:p:205:LYS:HE2	1.86	0.41
1:q:43:ASN:HD22	1:q:200:PRO:HB3	1.84	0.41
1:q:47:PHE:O	1:q:48:ILE:HD13	2.20	0.41
1:q:64:ILE:HG23	1:q:206:LEU:HD13	2.03	0.41
1:q:219:ILE:HG22	1:q:232:GLU:HA	2.03	0.41
1:q:290:HIS:HB3	1:r:102:HIS:NE2	2.36	0.41
1:q:333:TYR:CE2	1:q:335:TRP:CE3	3.06	0.41
1:r:47:PHE:O	1:r:48:ILE:HD13	2.20	0.41
1:r:263:GLU:HA	1:r:264:SER:HA	1.76	0.41
1:r:322:ALA:HB3	1:s:100:SER:HB2	2.02	0.41
1:s:47:PHE:O	1:s:48:ILE:HD13	2.20	0.41
1:s:97:ILE:CG2	1:s:340:ILE:HD12	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:134:ARG:O	1:s:276:LEU:N	2.32	0.41
1:t:316:ARG:HH22	1:u:98:ASN:ND2	2.19	0.41
1:t:327:SER:HA	1:u:191:PHE:CE2	2.56	0.41
1:u:65:HIS:HD2	1:u:205:LYS:HE2	1.86	0.41
1:u:334:SER:OG	1:u:435:THR:OG1	2.18	0.41
1:v:418:ASN:OD1	1:v:419:ASP:N	2.53	0.41
1:w:97:ILE:CG2	1:w:340:ILE:HD12	2.49	0.41
1:w:177:ALA:HB3	1:w:483:PHE:HB2	2.01	0.41
1:x:47:PHE:O	1:x:48:ILE:HD13	2.20	0.41
1:y:148:ILE:O	1:y:258:THR:HG23	2.21	0.41
1:y:423:SER:O	1:z:94:ARG:NE	2.53	0.41
1:z:379:TYR:CE1	1:z:451:TRP:CE2	3.07	0.41
1:6:247:LEU:C	1:6:249:THR:N	2.78	0.41
1:6:418:ASN:OD1	1:6:419:ASP:N	2.53	0.41
1:7:64:ILE:HG23	1:7:206:LEU:HD13	2.03	0.41
1:7:109:TRP:NE1	1:7:247:LEU:CD2	2.82	0.41
1:A:308:ILE:HA	1:A:309:ASN:CB	2.50	0.41
1:C:98:ASN:HA	1:M:323:SER:HG	1.82	0.41
1:C:327:SER:HA	1:1:191:PHE:CE2	2.56	0.41
1:C:423:SER:O	1:1:94:ARG:NE	2.53	0.41
1:D:381:TRP:O	1:D:381:TRP:CD1	2.73	0.41
1:D:397:ASN:HB2	1:D:399:GLU:N	2.35	0.41
1:D:559:PRO:HA	1:D:560:GLY:HA3	1.80	0.41
1:E:47:PHE:HE2	1:E:128:GLN:CB	2.34	0.41
1:E:65:HIS:HD2	1:E:205:LYS:HE2	1.86	0.41
1:F:148:ILE:O	1:F:258:THR:HG23	2.21	0.41
1:G:357:GLN:CB	1:G:362:SER:HB3	2.47	0.41
1:H:219:ILE:HG22	1:H:232:GLU:HA	2.03	0.41
1:H:443:ASP:OD1	1:W:462:THR:OG1	2.37	0.41
1:I:109:TRP:O	1:I:209:TYR:HB3	2.20	0.41
1:J:112:LEU:HD11	1:J:482:LEU:HD23	2.01	0.41
1:K:118:GLY:HA2	1:K:449:TYR:CE1	2.55	0.41
1:L:57:ILE:HG12	1:L:517:ILE:CD1	2.51	0.41
1:M:109:TRP:CE3	1:M:109:TRP:HA	2.56	0.41
1:M:335:TRP:HD1	1:M:337:GLU:HB3	1.85	0.41
1:N:57:ILE:HG12	1:N:517:ILE:CD1	2.51	0.41
1:N:68:MET:HB3	1:N:69:SER:C	2.46	0.41
1:N:225:ASP:CB	1:N:226:ARG:HB2	2.39	0.41
1:N:412:ALA:O	1:P:340:ILE:N	2.53	0.41
1:O:100:SER:HB2	1:h:322:ALA:HB3	2.02	0.41
1:O:250:MET:HB2	1:O:251:ILE:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:97:ILE:CG2	1:P:340:ILE:HD12	2.49	0.41
1:Q:47:PHE:HE2	1:Q:128:GLN:CB	2.34	0.41
1:Q:47:PHE:O	1:Q:48:ILE:HD13	2.20	0.41
1:Q:62:ARG:NH1	1:Q:119:VAL:HA	2.36	0.41
1:Q:68:MET:HB3	1:Q:69:SER:C	2.46	0.41
1:Q:148:ILE:O	1:Q:258:THR:HG23	2.21	0.41
1:Q:219:ILE:HG22	1:Q:232:GLU:HA	2.03	0.41
1:R:191:PHE:CE2	1:U:327:SER:HA	2.56	0.41
1:R:290:HIS:HB3	1:S:102:HIS:NE2	2.36	0.41
1:R:391:ARG:HH12	1:U:307:ASN:C	2.29	0.41
1:S:43:ASN:HD22	1:S:200:PRO:HB3	1.84	0.41
1:S:109:TRP:NE1	1:S:247:LEU:CD2	2.82	0.41
1:S:334:SER:HG	1:S:435:THR:CB	2.27	0.41
1:T:47:PHE:HE2	1:T:128:GLN:CB	2.34	0.41
1:T:100:SER:HB2	1:f:322:ALA:HB3	2.02	0.41
1:T:109:TRP:CE3	1:T:109:TRP:HA	2.56	0.41
1:T:391:ARG:HH12	1:f:307:ASN:C	2.28	0.41
1:U:107:THR:OG1	1:U:108:PRO:HD2	2.20	0.41
1:U:298:GLU:HA	1:U:299:GLY:HA2	1.56	0.41
1:V:109:TRP:NE1	1:V:247:LEU:CD2	2.82	0.41
1:V:327:SER:HA	1:4:191:PHE:CE2	2.56	0.41
1:V:559:PRO:HA	1:V:560:GLY:HA3	1.80	0.41
1:W:57:ILE:HG12	1:W:517:ILE:CD1	2.51	0.41
1:W:307:ASN:C	1:Y:391:ARG:HH12	2.28	0.41
1:W:308:ILE:HA	1:W:309:ASN:CB	2.50	0.41
1:X:47:PHE:O	1:X:48:ILE:HD13	2.20	0.41
1:X:109:TRP:CE3	1:X:109:TRP:HA	2.56	0.41
1:X:219:ILE:HG22	1:X:232:GLU:HA	2.03	0.41
1:X:334:SER:HG	1:X:435:THR:CB	2.29	0.41
1:X:354:PRO:HA	1:X:373:ALA:HB3	2.02	0.41
1:X:382:ASN:OD1	1:X:392:GLU:HG2	2.20	0.41
1:Z:64:ILE:HG23	1:Z:206:LEU:HD13	2.03	0.41
1:0:47:PHE:O	1:0:48:ILE:HD13	2.20	0.41
1:0:109:TRP:CE3	1:0:109:TRP:HA	2.56	0.41
1:0:219:ILE:HG22	1:0:232:GLU:HA	2.03	0.41
1:0:354:PRO:HA	1:0:373:ALA:HB3	2.02	0.41
1:2:115:ASN:O	1:2:454:ILE:HD12	2.19	0.41
1:2:250:MET:HB2	1:2:251:ILE:HG23	2.02	0.41
1:3:64:ILE:HG23	1:3:206:LEU:HD13	2.03	0.41
1:3:109:TRP:O	1:3:209:TYR:HB3	2.20	0.41
1:3:256:LEU:HD11	1:3:262:TRP:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:47:PHE:HE2	1:4:128:GLN:CB	2.34	0.41
1:4:118:GLY:HA2	1:4:449:TYR:CE1	2.55	0.41
1:5:64:ILE:HG23	1:5:206:LEU:HD13	2.03	0.41
1:5:75:ARG:HH11	1:a:294:ALA:HB2	1.86	0.41
1:5:418:ASN:OD1	1:5:419:ASP:N	2.53	0.41
1:a:148:ILE:O	1:a:258:THR:HG23	2.21	0.41
1:b:68:MET:HB3	1:b:69:SER:C	2.46	0.41
1:c:94:ARG:NE	1:e:423:SER:O	2.53	0.41
1:c:219:ILE:HG22	1:c:232:GLU:HA	2.03	0.41
1:c:335:TRP:HD1	1:c:337:GLU:HB3	1.85	0.41
1:d:335:TRP:HD1	1:d:337:GLU:HB3	1.85	0.41
1:e:68:MET:SD	1:e:503:ARG:NE	2.92	0.41
1:e:134:ARG:O	1:e:276:LEU:N	2.32	0.41
1:f:107:THR:OG1	1:f:108:PRO:HD2	2.20	0.41
1:h:47:PHE:HE2	1:h:128:GLN:CB	2.34	0.41
1:i:109:TRP:CE3	1:i:109:TRP:HA	2.56	0.41
1:i:443:ASP:OD1	1:j:462:THR:OG1	2.37	0.41
1:j:354:PRO:HA	1:j:373:ALA:HB3	2.02	0.41
1:k:381:TRP:O	1:k:381:TRP:CD1	2.73	0.41
1:l:327:SER:HA	1:m:191:PHE:CE2	2.56	0.41
1:m:47:PHE:HE2	1:m:128:GLN:CB	2.34	0.41
1:m:57:ILE:HG12	1:m:517:ILE:CD1	2.51	0.41
1:n:47:PHE:O	1:n:48:ILE:HD13	2.20	0.41
1:n:62:ARG:NH1	1:n:119:VAL:HA	2.36	0.41
1:n:102:HIS:NE2	1:p:290:HIS:HB3	2.36	0.41
1:n:290:HIS:HB3	1:o:102:HIS:NE2	2.36	0.41
1:o:43:ASN:HD22	1:o:200:PRO:HB3	1.84	0.41
1:o:47:PHE:O	1:o:48:ILE:HD13	2.20	0.41
1:q:57:ILE:HG12	1:q:517:ILE:CD1	2.51	0.41
1:q:109:TRP:CE3	1:q:109:TRP:HA	2.56	0.41
1:s:68:MET:HB3	1:s:69:SER:C	2.46	0.41
1:s:133:CYS:HB2	1:s:520:ALA:HB1	2.01	0.41
1:t:67:ASN:OD1	1:t:67:ASN:N	2.54	0.41
1:t:94:ARG:NE	1:v:423:SER:O	2.53	0.41
1:t:98:ASN:ND2	1:v:316:ARG:HH22	2.19	0.41
1:t:148:ILE:O	1:t:258:THR:HG23	2.21	0.41
1:t:263:GLU:HA	1:t:264:SER:HA	1.76	0.41
1:t:284:ARG:HD2	1:u:346:GLY:CA	2.44	0.41
1:t:308:ILE:HA	1:t:309:ASN:CB	2.50	0.41
1:t:543:GLN:HA	1:t:546:VAL:HG12	2.02	0.41
1:u:308:ILE:HA	1:u:309:ASN:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:318:ASN:HA	1:u:319:PRO:HA	1.81	0.41
1:u:327:SER:HA	1:v:191:PHE:CE2	2.56	0.41
1:u:543:GLN:HA	1:u:546:VAL:HG12	2.02	0.41
1:v:543:GLN:HA	1:v:546:VAL:HG12	2.02	0.41
1:w:256:LEU:HD11	1:w:262:TRP:CB	2.49	0.41
1:y:109:TRP:O	1:y:209:TYR:HB3	2.20	0.41
1:y:308:ILE:HA	1:y:309:ASN:CB	2.50	0.41
1:y:391:ARG:HH12	1:6:307:ASN:C	2.29	0.41
1:y:418:ASN:OD1	1:y:419:ASP:N	2.53	0.41
1:z:107:THR:OG1	1:z:108:PRO:HD2	2.20	0.41
1:6:543:GLN:HA	1:6:546:VAL:HG12	2.02	0.41
1:7:366:GLY:HA2	1:7:367:THR:HA	1.76	0.41
1:7:559:PRO:HA	1:7:560:GLY:HA3	1.80	0.41
1:A:34:VAL:CG2	1:B:36:HIS:CD2	2.92	0.41
1:A:47:PHE:O	1:A:48:ILE:HD13	2.20	0.41
1:A:219:ILE:HG22	1:A:232:GLU:HA	2.03	0.41
1:A:366:GLY:HA2	1:A:367:THR:HA	1.76	0.41
1:A:543:GLN:HA	1:A:546:VAL:HG12	2.02	0.41
1:B:47:PHE:HE2	1:B:128:GLN:CB	2.34	0.41
1:B:109:TRP:CE3	1:B:109:TRP:HA	2.56	0.41
1:B:247:LEU:C	1:B:249:THR:N	2.78	0.41
1:B:316:ARG:HH22	1:J:98:ASN:ND2	2.19	0.41
1:B:462:THR:OG1	1:L:443:ASP:OD1	2.37	0.41
1:C:148:ILE:O	1:C:258:THR:HG23	2.21	0.41
1:C:191:PHE:CE2	1:M:327:SER:HA	2.56	0.41
1:D:43:ASN:HD22	1:D:200:PRO:HB3	1.84	0.41
1:D:109:TRP:CE3	1:D:109:TRP:HA	2.56	0.41
1:D:307:ASN:C	1:N:391:ARG:HH12	2.29	0.41
1:D:322:ALA:HB3	1:N:100:SER:HB2	2.01	0.41
1:E:118:GLY:HA2	1:E:449:TYR:CE1	2.55	0.41
1:E:191:PHE:CE2	1:F:327:SER:HA	2.56	0.41
1:E:219:ILE:HG22	1:E:232:GLU:HA	2.03	0.41
1:E:290:HIS:HB3	1:Q:102:HIS:NE2	2.36	0.41
1:E:327:SER:HA	1:Q:191:PHE:CE2	2.56	0.41
1:E:335:TRP:HD1	1:E:337:GLU:HB3	1.85	0.41
1:E:460:ASP:OD1	1:E:460:ASP:N	2.50	0.41
1:F:43:ASN:HD22	1:F:200:PRO:HB3	1.84	0.41
1:F:47:PHE:HE2	1:F:128:GLN:CB	2.34	0.41
1:F:47:PHE:O	1:F:48:ILE:HD13	2.20	0.41
1:F:57:ILE:HG12	1:F:517:ILE:CD1	2.51	0.41
1:F:102:HIS:NE2	1:Q:290:HIS:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:109:TRP:CE3	1:F:109:TRP:HA	2.56	0.41
1:F:191:PHE:CE2	1:Q:327:SER:HA	2.56	0.41
1:G:148:ILE:O	1:G:258:THR:HG23	2.21	0.41
1:G:290:HIS:HB3	1:I:102:HIS:NE2	2.36	0.41
1:G:308:ILE:HA	1:G:309:ASN:CB	2.50	0.41
1:G:316:ARG:HH22	1:I:98:ASN:ND2	2.19	0.41
1:G:439:TYR:CZ	1:I:469:ALA:HB2	2.50	0.41
1:H:65:HIS:HD2	1:H:205:LYS:HE2	1.86	0.41
1:H:68:MET:SD	1:H:503:ARG:NE	2.92	0.41
1:H:221:ILE:HG22	1:Y:429:ARG:CG	2.51	0.41
1:H:263:GLU:HA	1:H:264:SER:HA	1.76	0.41
1:H:379:TYR:CE1	1:H:451:TRP:CE2	3.07	0.41
1:H:412:ALA:O	1:W:340:ILE:N	2.53	0.41
1:I:57:ILE:HG12	1:I:517:ILE:CD1	2.51	0.41
1:I:62:ARG:NH1	1:I:119:VAL:HA	2.36	0.41
1:I:177:ALA:HB3	1:I:483:PHE:HB2	2.01	0.41
1:I:219:ILE:HG22	1:I:232:GLU:HA	2.03	0.41
1:I:308:ILE:HA	1:I:309:ASN:CB	2.50	0.41
1:I:382:ASN:OD1	1:I:392:GLU:HG2	2.19	0.41
1:J:47:PHE:O	1:J:48:ILE:HD13	2.20	0.41
1:J:64:ILE:HG23	1:J:206:LEU:HD13	2.03	0.41
1:J:71:MET:HB2	1:J:75:ARG:HH22	1.85	0.41
1:J:109:TRP:CE3	1:J:109:TRP:HA	2.56	0.41
1:J:148:ILE:O	1:J:258:THR:HG23	2.21	0.41
1:J:418:ASN:OD1	1:J:419:ASP:N	2.53	0.41
1:K:57:ILE:HG12	1:K:517:ILE:CD1	2.51	0.41
1:K:64:ILE:HG23	1:K:206:LEU:HD13	2.03	0.41
1:K:102:HIS:NE2	1:7:290:HIS:HB3	2.36	0.41
1:K:335:TRP:HD1	1:K:337:GLU:HB3	1.85	0.41
1:K:412:ALA:O	1:0:340:ILE:N	2.53	0.41
1:L:65:HIS:HD2	1:L:205:LYS:HE2	1.86	0.41
1:L:68:MET:HB3	1:L:69:SER:C	2.46	0.41
1:L:109:TRP:CE3	1:L:109:TRP:HA	2.56	0.41
1:L:250:MET:HB2	1:L:251:ILE:HG23	2.02	0.41
1:L:318:ASN:HA	1:L:319:PRO:HA	1.81	0.41
1:M:148:ILE:O	1:M:258:THR:HG23	2.21	0.41
1:M:191:PHE:CE2	1:1:327:SER:HA	2.56	0.41
1:N:33:GLY:C	1:N:36:HIS:HD2	2.17	0.41
1:O:109:TRP:CE3	1:O:109:TRP:HA	2.56	0.41
1:O:340:ILE:N	1:h:412:ALA:O	2.53	0.41
1:O:391:ARG:HH12	1:h:307:ASN:C	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:47:PHE:O	1:P:48:ILE:HD13	2.20	0.41
1:P:68:MET:HB3	1:P:69:SER:C	2.46	0.41
1:P:109:TRP:CE3	1:P:109:TRP:HA	2.56	0.41
1:P:146:GLU:HA	1:P:147:ASN:HA	1.79	0.41
1:P:418:ASN:OD1	1:P:419:ASP:N	2.53	0.41
1:Q:109:TRP:CE3	1:Q:109:TRP:HA	2.56	0.41
1:Q:308:ILE:HA	1:Q:309:ASN:CB	2.50	0.41
1:R:67:ASN:OD1	1:R:67:ASN:N	2.54	0.41
1:R:68:MET:HB3	1:R:69:SER:C	2.46	0.41
1:R:68:MET:CA	1:R:69:SER:HB3	2.48	0.41
1:R:71:MET:HB2	1:R:75:ARG:HH22	1.85	0.41
1:R:307:ASN:C	1:S:391:ARG:HH12	2.28	0.41
1:R:308:ILE:HA	1:R:309:ASN:CB	2.50	0.41
1:S:35:GLY:C	1:3:257:ARG:HH11	2.17	0.41
1:S:148:ILE:O	1:S:258:THR:HG23	2.21	0.41
1:S:219:ILE:HG22	1:S:232:GLU:HA	2.03	0.41
1:S:327:SER:HA	1:U:191:PHE:CE2	2.56	0.41
1:T:66:ILE:O	1:T:508:GLY:N	2.48	0.41
1:T:100:SER:O	1:T:100:SER:OG	2.23	0.41
1:T:107:THR:OG1	1:T:108:PRO:HD2	2.20	0.41
1:T:173:LEU:CD1	1:c:511:TRP:HE1	2.29	0.41
1:T:191:PHE:CE2	1:f:327:SER:HA	2.56	0.41
1:T:316:ARG:HH22	1:3:98:ASN:ND2	2.19	0.41
1:T:443:ASP:OD1	1:3:462:THR:OG1	2.37	0.41
1:U:33:GLY:C	1:U:36:HIS:HD2	2.17	0.41
1:U:68:MET:HB3	1:U:69:SER:C	2.46	0.41
1:V:102:HIS:NE2	1:X:290:HIS:HB3	2.36	0.41
1:V:109:TRP:CE3	1:V:109:TRP:HA	2.56	0.41
1:V:290:HIS:HB3	1:4:102:HIS:NE2	2.36	0.41
1:V:318:ASN:HA	1:V:319:PRO:HA	1.81	0.41
1:W:109:TRP:CE3	1:W:109:TRP:HA	2.56	0.41
1:W:256:LEU:HD11	1:W:262:TRP:CB	2.49	0.41
1:X:67:ASN:OD1	1:X:67:ASN:N	2.54	0.41
1:X:94:ARG:NE	1:4:423:SER:O	2.53	0.41
1:X:257:ARG:HH11	1:5:35:GLY:C	2.18	0.41
1:X:335:TRP:HD1	1:X:337:GLU:HB3	1.85	0.41
1:Y:64:ILE:HG23	1:Y:206:LEU:HD13	2.03	0.41
1:Y:109:TRP:CE3	1:Y:109:TRP:HA	2.56	0.41
1:Y:308:ILE:HA	1:Y:309:ASN:CB	2.50	0.41
1:Y:333:TYR:CE2	1:Y:335:TRP:HE3	2.39	0.41
1:Z:102:HIS:NE2	1:w:290:HIS:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:109:TRP:CE3	1:Z:109:TRP:HA	2.56	0.41
1:Z:191:PHE:CE2	1:w:327:SER:HA	2.56	0.41
1:Z:308:ILE:HA	1:Z:309:ASN:CB	2.50	0.41
1:Z:327:SER:HA	1:x:191:PHE:CE2	2.56	0.41
1:Z:333:TYR:CE2	1:Z:335:TRP:HE3	2.39	0.41
1:Z:376:LYS:HA	1:Z:395:TRP:HA	2.03	0.41
1:Z:391:ARG:HH12	1:w:307:ASN:C	2.28	0.41
1:Z:429:ARG:CG	1:x:221:ILE:HG22	2.51	0.41
1:0:148:ILE:O	1:0:258:THR:HG23	2.21	0.41
1:0:335:TRP:HD1	1:0:337:GLU:HB3	1.85	0.41
1:1:65:HIS:HD2	1:1:205:LYS:HE2	1.86	0.41
1:1:109:TRP:CE3	1:1:109:TRP:HA	2.56	0.41
1:1:219:ILE:HG22	1:1:232:GLU:HA	2.03	0.41
1:1:263:GLU:HA	1:1:264:SER:HA	1.76	0.41
1:2:327:SER:HA	1:i:191:PHE:CE2	2.56	0.41
1:2:462:THR:OG1	1:j:443:ASP:OD1	2.37	0.41
1:3:65:HIS:HD2	1:3:205:LYS:HE2	1.86	0.41
1:3:71:MET:HB2	1:3:75:ARG:HH22	1.85	0.41
1:3:443:ASP:OD1	1:f:462:THR:OG1	2.37	0.41
1:3:559:PRO:HA	1:3:560:GLY:HA3	1.80	0.41
1:4:57:ILE:HG12	1:4:517:ILE:CD1	2.51	0.41
1:4:64:ILE:HG23	1:4:206:LEU:HD13	2.03	0.41
1:4:97:ILE:CG2	1:4:340:ILE:HD12	2.49	0.41
1:4:335:TRP:HD1	1:4:337:GLU:HB3	1.85	0.41
1:5:57:ILE:HG12	1:5:517:ILE:CD1	2.51	0.41
1:5:71:MET:HB2	1:5:75:ARG:HH22	1.85	0.41
1:5:109:TRP:CE3	1:5:109:TRP:HA	2.56	0.41
1:5:148:ILE:O	1:5:258:THR:HG23	2.21	0.41
1:a:36:HIS:CD2	1:u:34:VAL:CG2	2.92	0.41
1:a:47:PHE:HE2	1:a:128:GLN:CB	2.34	0.41
1:a:109:TRP:CE3	1:a:109:TRP:HA	2.56	0.41
1:a:247:LEU:C	1:a:249:THR:N	2.78	0.41
1:a:377:ALA:HB2	1:b:311:TRP:CE3	2.56	0.41
1:a:390:MET:HA	1:a:391:ARG:HA	1.72	0.41
1:b:65:HIS:HD2	1:b:205:LYS:HE2	1.86	0.41
1:b:109:TRP:CE3	1:b:109:TRP:HA	2.56	0.41
1:b:148:ILE:O	1:b:258:THR:HG23	2.21	0.41
1:b:250:MET:HB2	1:b:251:ILE:HG23	2.02	0.41
1:c:57:ILE:HG12	1:c:517:ILE:CD1	2.51	0.41
1:c:65:HIS:HD2	1:c:205:LYS:HE2	1.86	0.41
1:c:109:TRP:CE3	1:c:109:TRP:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:191:PHE:CE2	1:e:327:SER:HA	2.56	0.41
1:c:327:SER:HA	1:d:191:PHE:CE2	2.56	0.41
1:d:68:MET:HB3	1:d:69:SER:C	2.46	0.41
1:d:139:SER:O	1:d:269:PHE:N	2.45	0.41
1:d:148:ILE:O	1:d:258:THR:HG23	2.21	0.41
1:d:327:SER:HA	1:e:191:PHE:CE2	2.56	0.41
1:e:64:ILE:HG23	1:e:206:LEU:HD13	2.03	0.41
1:e:112:LEU:HD11	1:e:482:LEU:HD23	2.01	0.41
1:e:148:ILE:O	1:e:258:THR:HG23	2.21	0.41
1:e:205:LYS:HE3	1:e:205:LYS:HB2	1.91	0.41
1:e:334:SER:HG	1:e:435:THR:CB	2.26	0.41
1:f:109:TRP:CE3	1:f:109:TRP:HA	2.56	0.41
1:f:115:ASN:O	1:f:454:ILE:HD12	2.19	0.41
1:g:47:PHE:O	1:g:48:ILE:HD13	2.20	0.41
1:g:107:THR:OG1	1:g:108:PRO:HD2	2.20	0.41
1:g:134:ARG:O	1:g:276:LEU:N	2.32	0.41
1:g:443:ASP:OD1	1:h:462:THR:OG1	2.37	0.41
1:h:47:PHE:O	1:h:48:ILE:HD13	2.20	0.41
1:h:57:ILE:HG12	1:h:517:ILE:CD1	2.51	0.41
1:h:146:GLU:HA	1:h:147:ASN:HA	1.79	0.41
1:h:337:GLU:CB	1:h:338:TRP:CA	2.99	0.41
1:h:516:MET:O	1:h:517:ILE:HD13	2.20	0.41
1:i:47:PHE:HE2	1:i:128:GLN:CB	2.34	0.41
1:i:66:ILE:O	1:i:508:GLY:N	2.48	0.41
1:i:316:ARG:HH22	1:j:98:ASN:ND2	2.19	0.41
1:j:71:MET:HB2	1:j:75:ARG:HH22	1.85	0.41
1:j:109:TRP:O	1:j:209:TYR:HB3	2.20	0.41
1:j:219:ILE:HG22	1:j:232:GLU:HA	2.03	0.41
1:j:256:LEU:HD11	1:j:262:TRP:CB	2.49	0.41
1:j:335:TRP:HD1	1:j:337:GLU:HB3	1.85	0.41
1:k:68:MET:HB3	1:k:69:SER:C	2.46	0.41
1:k:109:TRP:CE3	1:k:109:TRP:HA	2.56	0.41
1:k:340:ILE:N	1:m:412:ALA:O	2.53	0.41
1:k:391:ARG:HH12	1:m:307:ASN:C	2.28	0.41
1:l:47:PHE:O	1:l:48:ILE:HD13	2.20	0.41
1:l:57:ILE:HG12	1:l:517:ILE:CD1	2.51	0.41
1:l:65:HIS:HD2	1:l:205:LYS:HE2	1.86	0.41
1:l:107:THR:OG1	1:l:108:PRO:HD2	2.20	0.41
1:l:134:ARG:O	1:l:276:LEU:N	2.32	0.41
1:l:245:THR:HA	1:l:246:PRO:HD2	1.50	0.41
1:l:316:ARG:HH22	1:m:98:ASN:ND2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:322:ALA:HB3	1:m:100:SER:HB2	2.01	0.41
1:l:443:ASP:OD1	1:m:462:THR:OG1	2.37	0.41
1:m:139:SER:O	1:m:269:PHE:N	2.45	0.41
1:m:337:GLU:CB	1:m:338:TRP:CA	2.99	0.41
1:n:68:MET:HB3	1:n:69:SER:C	2.46	0.41
1:n:109:TRP:CE3	1:n:109:TRP:HA	2.56	0.41
1:n:148:ILE:O	1:n:258:THR:HG23	2.21	0.41
1:n:191:PHE:CE2	1:p:327:SER:HA	2.56	0.41
1:n:257:ARG:N	1:s:37:SER:HG	2.09	0.41
1:n:308:ILE:HA	1:n:309:ASN:CB	2.50	0.41
1:n:327:SER:HA	1:o:191:PHE:CE2	2.56	0.41
1:o:47:PHE:HE2	1:o:128:GLN:CB	2.34	0.41
1:o:57:ILE:HG12	1:o:517:ILE:CD1	2.51	0.41
1:o:109:TRP:CE3	1:o:109:TRP:HA	2.56	0.41
1:o:148:ILE:O	1:o:258:THR:HG23	2.21	0.41
1:o:298:GLU:HA	1:o:299:GLY:HA2	1.56	0.41
1:o:327:SER:HA	1:p:191:PHE:CE2	2.56	0.41
1:o:418:ASN:OD1	1:o:419:ASP:N	2.53	0.41
1:p:47:PHE:HE2	1:p:128:GLN:CB	2.34	0.41
1:p:134:ARG:O	1:p:276:LEU:N	2.32	0.41
1:p:219:ILE:HG22	1:p:232:GLU:HA	2.03	0.41
1:p:335:TRP:HD1	1:p:337:GLU:HB3	1.85	0.41
1:p:418:ASN:OD1	1:p:419:ASP:N	2.53	0.41
1:q:322:ALA:HB3	1:r:100:SER:HB2	2.01	0.41
1:q:381:TRP:O	1:q:381:TRP:CD1	2.73	0.41
1:r:68:MET:HB3	1:r:69:SER:C	2.46	0.41
1:r:148:ILE:O	1:r:258:THR:HG23	2.21	0.41
1:r:225:ASP:CB	1:r:226:ARG:HB2	2.39	0.41
1:r:412:ALA:O	1:s:340:ILE:N	2.53	0.41
1:r:443:ASP:OD1	1:s:462:THR:OG1	2.37	0.41
1:t:57:ILE:HG12	1:t:517:ILE:CD1	2.51	0.41
1:t:102:HIS:NE2	1:v:290:HIS:HB3	2.36	0.41
1:t:109:TRP:O	1:t:209:TYR:HB3	2.20	0.41
1:t:177:ALA:HB3	1:t:483:PHE:HB2	2.01	0.41
1:t:219:ILE:HG22	1:t:232:GLU:HA	2.03	0.41
1:t:250:MET:HB2	1:t:251:ILE:HG23	2.02	0.41
1:u:47:PHE:O	1:u:48:ILE:HD13	2.20	0.41
1:u:219:ILE:HG22	1:u:232:GLU:HA	2.03	0.41
1:u:307:ASN:C	1:v:391:ARG:HH12	2.28	0.41
1:u:412:ALA:O	1:v:340:ILE:N	2.53	0.41
1:w:57:ILE:HG12	1:w:517:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:71:MET:HB2	1:w:75:ARG:HH22	1.85	0.41
1:w:308:ILE:HA	1:w:309:ASN:CB	2.50	0.41
1:x:219:ILE:HG22	1:x:232:GLU:HA	2.03	0.41
1:x:366:GLY:HA2	1:x:367:THR:HA	1.76	0.41
1:x:379:TYR:CE1	1:x:451:TRP:CE2	3.07	0.41
1:y:67:ASN:OD1	1:y:67:ASN:N	2.54	0.41
1:y:68:MET:HB3	1:y:69:SER:C	2.46	0.41
1:y:71:MET:HB2	1:y:75:ARG:HH22	1.85	0.41
1:y:191:PHE:CE2	1:6:327:SER:HA	2.56	0.41
1:y:290:HIS:HB3	1:z:102:HIS:NE2	2.36	0.41
1:y:307:ASN:C	1:z:391:ARG:HH12	2.28	0.41
1:z:43:ASN:HD22	1:z:200:PRO:HB3	1.84	0.41
1:z:148:ILE:O	1:z:258:THR:HG23	2.21	0.41
1:z:219:ILE:HG22	1:z:232:GLU:HA	2.03	0.41
1:z:322:ALA:HB3	1:6:100:SER:HB2	2.02	0.41
1:z:327:SER:HA	1:6:191:PHE:CE2	2.56	0.41
1:z:334:SER:HG	1:z:435:THR:CB	2.27	0.41
1:6:68:MET:HB3	1:6:69:SER:C	2.46	0.41
1:6:107:THR:OG1	1:6:108:PRO:HD2	2.20	0.41
1:B:94:ARG:NE	1:L:423:SER:O	2.53	0.41
1:C:64:ILE:HG23	1:C:206:LEU:HD13	2.03	0.41
1:C:68:MET:HB3	1:C:69:SER:C	2.46	0.41
1:C:112:LEU:HD11	1:C:482:LEU:HD23	2.01	0.41
1:C:247:LEU:C	1:C:249:THR:N	2.78	0.41
1:C:354:PRO:HA	1:C:373:ALA:HB3	2.01	0.41
1:C:412:ALA:O	1:1:340:ILE:N	2.53	0.41
1:D:47:PHE:HE2	1:D:128:GLN:CB	2.34	0.41
1:D:65:HIS:HD2	1:D:205:LYS:HE2	1.85	0.41
1:D:68:MET:HB3	1:D:69:SER:C	2.46	0.41
1:D:257:ARG:HG2	1:E:37:SER:CA	2.32	0.41
1:D:469:ALA:HB2	1:P:439:TYR:CZ	2.50	0.41
1:E:68:MET:HB3	1:E:69:SER:C	2.46	0.41
1:E:412:ALA:O	1:Q:340:ILE:N	2.53	0.41
1:E:418:ASN:OD1	1:E:419:ASP:N	2.53	0.41
1:F:462:THR:OG1	1:Q:443:ASP:OD1	2.37	0.41
1:H:62:ARG:NH1	1:H:119:VAL:HA	2.36	0.41
1:H:64:ILE:HG23	1:H:206:LEU:HD13	2.03	0.41
1:H:191:PHE:CE2	1:Y:327:SER:HA	2.56	0.41
1:I:250:MET:HB2	1:I:251:ILE:HG23	2.02	0.41
1:J:145:ILE:HG23	1:J:510:PHE:CD2	2.56	0.41
1:J:263:GLU:HA	1:J:264:SER:HA	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:290:HIS:HB3	1:L:102:HIS:NE2	2.36	0.41
1:J:307:ASN:C	1:L:391:ARG:HH12	2.28	0.41
1:K:97:ILE:CG2	1:K:340:ILE:HD12	2.49	0.41
1:K:148:ILE:O	1:K:258:THR:HG23	2.21	0.41
1:M:68:MET:HB3	1:M:69:SER:C	2.46	0.41
1:M:68:MET:CA	1:M:69:SER:HB3	2.48	0.41
1:N:65:HIS:HD2	1:N:205:LYS:HE2	1.86	0.41
1:N:148:ILE:O	1:N:258:THR:HG23	2.21	0.41
1:N:335:TRP:HD1	1:N:337:GLU:HB3	1.85	0.41
1:N:443:ASP:OD1	1:P:462:THR:OG1	2.37	0.41
1:O:34:VAL:CG2	1:3:36:HIS:CD2	2.93	0.41
1:O:68:MET:HB3	1:O:69:SER:C	2.46	0.41
1:P:145:ILE:HG23	1:P:510:PHE:CD2	2.56	0.41
1:P:366:GLY:HA2	1:P:367:THR:HA	1.76	0.41
1:R:64:ILE:HG23	1:R:206:LEU:HD13	2.03	0.41
1:R:94:ARG:NE	1:U:423:SER:O	2.53	0.41
1:T:263:GLU:HA	1:T:264:SER:HA	1.75	0.41
1:U:219:ILE:HG22	1:U:232:GLU:HA	2.03	0.41
1:W:290:HIS:HB3	1:Y:102:HIS:NE2	2.36	0.41
1:W:327:SER:HA	1:Y:191:PHE:CE2	2.56	0.41
1:X:516:MET:O	1:X:517:ILE:HD13	2.20	0.41
1:Y:35:GLY:C	1:x:257:ARG:HH11	2.17	0.41
1:Y:256:LEU:HD11	1:Y:262:TRP:CB	2.49	0.41
1:Y:333:TYR:CE2	1:Y:335:TRP:CE3	3.06	0.41
1:Z:145:ILE:HG23	1:Z:510:PHE:CD2	2.56	0.41
1:Z:333:TYR:CE2	1:Z:335:TRP:CE3	3.06	0.41
1:0:67:ASN:OD1	1:0:67:ASN:N	2.54	0.41
1:0:290:HIS:HB3	1:7:102:HIS:NE2	2.36	0.41
1:1:57:ILE:HG12	1:1:517:ILE:CD1	2.51	0.41
1:1:559:PRO:HA	1:1:560:GLY:HA3	1.80	0.41
1:2:68:MET:SD	1:2:503:ARG:NE	2.92	0.41
1:2:256:LEU:HD11	1:2:262:TRP:CB	2.49	0.41
1:3:68:MET:SD	1:3:503:ARG:NE	2.92	0.41
1:3:219:ILE:HG22	1:3:232:GLU:HA	2.03	0.41
1:3:316:ARG:HH22	1:f:98:ASN:ND2	2.19	0.41
1:4:148:ILE:O	1:4:258:THR:HG23	2.21	0.41
1:5:435:THR:CG2	1:b:339:GLN:HE22	2.28	0.41
1:a:235:LYS:HA	1:a:236:GLY:HA2	1.90	0.41
1:a:377:ALA:HB2	1:b:311:TRP:CZ3	2.56	0.41
1:b:36:HIS:O	1:c:257:ARG:HD2	2.19	0.41
1:c:146:GLU:HA	1:c:147:ASN:HA	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:109:TRP:CE3	1:d:109:TRP:HA	2.56	0.41
1:d:491:THR:OG1	1:d:502:SER:O	2.30	0.41
1:e:47:PHE:HE2	1:e:128:GLN:CB	2.34	0.41
1:e:68:MET:HB3	1:e:69:SER:C	2.46	0.41
1:e:247:LEU:C	1:e:249:THR:N	2.78	0.41
1:e:354:PRO:HA	1:e:373:ALA:HB3	2.02	0.41
1:f:68:MET:SD	1:f:503:ARG:NE	2.92	0.41
1:f:247:LEU:C	1:f:249:THR:N	2.78	0.41
1:g:57:ILE:HG12	1:g:517:ILE:CD1	2.51	0.41
1:g:316:ARG:HH22	1:h:98:ASN:ND2	2.19	0.41
1:h:225:ASP:CB	1:h:226:ARG:HB2	2.39	0.41
1:j:57:ILE:HG12	1:j:517:ILE:CD1	2.51	0.41
1:j:65:HIS:HD2	1:j:205:LYS:HE2	1.86	0.41
1:j:68:MET:SD	1:j:503:ARG:NE	2.92	0.41
1:k:250:MET:HB2	1:k:251:ILE:HG23	2.02	0.41
1:n:64:ILE:HG23	1:n:206:LEU:HD13	2.03	0.41
1:n:316:ARG:HH22	1:o:98:ASN:ND2	2.19	0.41
1:n:443:ASP:OD1	1:o:462:THR:OG1	2.37	0.41
1:p:37:SER:CA	1:q:257:ARG:HG2	2.32	0.41
1:p:68:MET:HB3	1:p:69:SER:C	2.46	0.41
1:p:118:GLY:HA2	1:p:449:TYR:CE1	2.55	0.41
1:p:460:ASP:OD1	1:p:460:ASP:N	2.50	0.41
1:q:47:PHE:HE2	1:q:128:GLN:CB	2.34	0.41
1:q:65:HIS:HD2	1:q:205:LYS:HE2	1.86	0.41
1:q:68:MET:HB3	1:q:69:SER:C	2.46	0.41
1:q:412:ALA:O	1:r:340:ILE:N	2.53	0.41
1:r:335:TRP:HD1	1:r:337:GLU:HB3	1.85	0.41
1:s:109:TRP:CE3	1:s:109:TRP:HA	2.56	0.41
1:s:145:ILE:HG23	1:s:510:PHE:CD2	2.56	0.41
1:s:333:TYR:CE2	1:s:335:TRP:CE3	3.06	0.41
1:t:62:ARG:NH1	1:t:119:VAL:HA	2.36	0.41
1:t:65:HIS:HD2	1:t:205:LYS:HE2	1.86	0.41
1:t:462:THR:OG1	1:v:443:ASP:OD1	2.37	0.41
1:v:148:ILE:O	1:v:258:THR:HG23	2.21	0.41
1:v:308:ILE:HA	1:v:309:ASN:CB	2.50	0.41
1:w:109:TRP:CE3	1:w:109:TRP:HA	2.56	0.41
1:x:65:HIS:HD2	1:x:205:LYS:HE2	1.86	0.41
1:y:64:ILE:HG23	1:y:206:LEU:HD13	2.03	0.41
1:y:460:ASP:OD1	1:y:460:ASP:N	2.50	0.41
1:z:109:TRP:NE1	1:z:247:LEU:CD2	2.82	0.41
1:z:145:ILE:HG23	1:z:510:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:84:LEU:HD23	1:6:84:LEU:HA	1.90	0.41
1:6:145:ILE:HG23	1:6:510:PHE:CD2	2.56	0.41
1:7:109:TRP:CE3	1:7:109:TRP:HA	2.56	0.41
1:A:57:ILE:HG12	1:A:517:ILE:CD1	2.51	0.40
1:A:68:MET:HB3	1:A:69:SER:C	2.46	0.40
1:A:527:GLN:HE21	1:G:243:GLN:HG2	1.87	0.40
1:B:68:MET:HB3	1:B:69:SER:C	2.46	0.40
1:B:102:HIS:NE2	1:L:290:HIS:HB3	2.36	0.40
1:C:145:ILE:HG23	1:C:510:PHE:CD2	2.56	0.40
1:C:219:ILE:HG22	1:C:232:GLU:HA	2.03	0.40
1:C:340:ILE:N	1:M:412:ALA:O	2.53	0.40
1:D:145:ILE:HG23	1:D:510:PHE:CD2	2.56	0.40
1:D:412:ALA:O	1:N:340:ILE:N	2.53	0.40
1:E:366:GLY:HA2	1:E:367:THR:HA	1.76	0.40
1:F:68:MET:HB3	1:F:69:SER:C	2.46	0.40
1:F:98:ASN:ND2	1:Q:316:ARG:HH22	2.19	0.40
1:G:68:MET:HB3	1:G:69:SER:C	2.46	0.40
1:G:543:GLN:HA	1:G:546:VAL:HG12	2.02	0.40
1:H:68:MET:CA	1:H:69:SER:HB3	2.48	0.40
1:H:98:ASN:ND2	1:Y:316:ARG:HH22	2.19	0.40
1:H:102:HIS:NE2	1:Y:290:HIS:HB3	2.36	0.40
1:H:223:GLN:HB3	1:H:226:ARG:O	2.21	0.40
1:I:64:ILE:HG23	1:I:206:LEU:HD13	2.03	0.40
1:I:376:LYS:HA	1:I:395:TRP:HA	2.03	0.40
1:J:57:ILE:HG12	1:J:517:ILE:CD1	2.51	0.40
1:J:68:MET:HB3	1:J:69:SER:C	2.46	0.40
1:J:318:ASN:HA	1:J:319:PRO:HA	1.81	0.40
1:L:71:MET:HB2	1:L:75:ARG:HH22	1.85	0.40
1:M:391:ARG:HH12	1:1:307:ASN:C	2.28	0.40
1:N:109:TRP:CE3	1:N:109:TRP:HA	2.56	0.40
1:N:290:HIS:HB3	1:P:102:HIS:NE2	2.36	0.40
1:O:57:ILE:HG12	1:O:517:ILE:CD1	2.51	0.40
1:O:396:GLN:OE1	1:O:396:GLN:N	2.55	0.40
1:P:64:ILE:HG23	1:P:206:LEU:HD13	2.03	0.40
1:P:134:ARG:O	1:P:276:LEU:N	2.32	0.40
1:P:333:TYR:CE2	1:P:335:TRP:HE3	2.39	0.40
1:Q:64:ILE:HG23	1:Q:206:LEU:HD13	2.03	0.40
1:Q:67:ASN:OD1	1:Q:67:ASN:N	2.54	0.40
1:Q:381:TRP:CE3	1:Q:384:GLY:HA3	2.57	0.40
1:R:145:ILE:HG23	1:R:510:PHE:CD2	2.56	0.40
1:R:327:SER:HA	1:S:191:PHE:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:333:TYR:CE2	1:R:335:TRP:HE3	2.39	0.40
1:R:429:ARG:CG	1:S:221:ILE:HG22	2.51	0.40
1:S:47:PHE:O	1:S:48:ILE:HD13	2.20	0.40
1:S:68:MET:HB3	1:S:69:SER:C	2.46	0.40
1:T:68:MET:HB3	1:T:69:SER:C	2.46	0.40
1:T:223:GLN:HB3	1:T:226:ARG:O	2.22	0.40
1:T:376:LYS:HA	1:T:395:TRP:HA	2.04	0.40
1:U:145:ILE:HG23	1:U:510:PHE:CD2	2.56	0.40
1:U:223:GLN:HB3	1:U:226:ARG:O	2.22	0.40
1:V:145:ILE:HG23	1:V:510:PHE:CD2	2.56	0.40
1:W:47:PHE:O	1:W:48:ILE:HD13	2.20	0.40
1:W:223:GLN:HB3	1:W:226:ARG:O	2.22	0.40
1:X:148:ILE:O	1:X:258:THR:HG23	2.21	0.40
1:X:340:ILE:N	1:4:412:ALA:O	2.53	0.40
1:Y:62:ARG:NH1	1:Y:119:VAL:HA	2.36	0.40
1:Y:376:LYS:HA	1:Y:395:TRP:HA	2.04	0.40
1:Z:62:ARG:NH1	1:Z:119:VAL:HA	2.36	0.40
1:Z:65:HIS:HD2	1:Z:205:LYS:HE2	1.86	0.40
1:Z:68:MET:CA	1:Z:69:SER:HB3	2.48	0.40
1:Z:256:LEU:HD11	1:Z:262:TRP:CB	2.49	0.40
1:Z:316:ARG:HH22	1:x:98:ASN:ND2	2.18	0.40
1:0:516:MET:O	1:0:517:ILE:HD13	2.20	0.40
1:1:84:LEU:HD23	1:1:84:LEU:HA	1.90	0.40
1:1:146:GLU:HA	1:1:147:ASN:HA	1.79	0.40
1:1:511:TRP:HE1	1:i:173:LEU:CD1	2.29	0.40
1:2:64:ILE:HG23	1:2:206:LEU:HD13	2.03	0.40
1:2:98:ASN:ND2	1:j:316:ARG:HH22	2.19	0.40
1:2:109:TRP:CE3	1:2:109:TRP:HA	2.56	0.40
1:2:247:LEU:C	1:2:249:THR:N	2.78	0.40
1:2:333:TYR:CE2	1:2:335:TRP:HE3	2.39	0.40
1:2:412:ALA:O	1:i:340:ILE:N	2.53	0.40
1:3:57:ILE:HG12	1:3:517:ILE:CD1	2.51	0.40
1:3:109:TRP:CE3	1:3:109:TRP:HA	2.56	0.40
1:3:145:ILE:HG23	1:3:510:PHE:CD2	2.56	0.40
1:3:318:ASN:HA	1:3:319:PRO:HA	1.81	0.40
1:3:327:SER:HA	1:f:191:PHE:CE2	2.56	0.40
1:5:308:ILE:HG21	1:b:192:TYR:HD1	1.86	0.40
1:b:71:MET:HB2	1:b:75:ARG:HH22	1.85	0.40
1:b:318:ASN:HA	1:b:319:PRO:HA	1.81	0.40
1:b:511:TRP:HE1	1:c:173:LEU:CD1	2.29	0.40
1:b:529:ASN:O	1:e:124:ALA:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:307:ASN:C	1:d:391:ARG:HH12	2.28	0.40
1:d:333:TYR:CE2	1:d:335:TRP:HE3	2.39	0.40
1:d:412:ALA:O	1:e:340:ILE:N	2.53	0.40
1:e:145:ILE:HG23	1:e:510:PHE:CD2	2.56	0.40
1:e:381:TRP:CE3	1:e:384:GLY:HA3	2.57	0.40
1:f:64:ILE:HG23	1:f:206:LEU:HD13	2.03	0.40
1:f:65:HIS:HD2	1:f:205:LYS:HE2	1.86	0.40
1:g:418:ASN:OD1	1:g:419:ASP:N	2.53	0.40
1:g:561:ARG:HA	1:g:561:ARG:HD3	1.88	0.40
1:h:68:MET:HB3	1:h:69:SER:C	2.46	0.40
1:i:107:THR:OG1	1:i:108:PRO:HD2	2.20	0.40
1:i:366:GLY:HA2	1:i:367:THR:HA	1.76	0.40
1:j:109:TRP:CE3	1:j:109:TRP:HA	2.56	0.40
1:j:431:SER:OG	1:j:433:HIS:CD2	2.68	0.40
1:k:57:ILE:HG12	1:k:517:ILE:CD1	2.51	0.40
1:k:366:GLY:HA2	1:k:367:THR:HA	1.76	0.40
1:l:225:ASP:CB	1:l:226:ARG:HB2	2.39	0.40
1:m:68:MET:SD	1:m:503:ARG:NE	2.92	0.40
1:m:225:ASP:CB	1:m:226:ARG:HB2	2.39	0.40
1:n:67:ASN:OD1	1:n:67:ASN:N	2.54	0.40
1:n:381:TRP:CE3	1:n:384:GLY:HA3	2.57	0.40
1:o:68:MET:HB3	1:o:69:SER:C	2.46	0.40
1:r:65:HIS:HD2	1:r:205:LYS:HE2	1.86	0.40
1:r:107:THR:OG1	1:r:108:PRO:HD2	2.20	0.40
1:r:109:TRP:CE3	1:r:109:TRP:HA	2.56	0.40
1:r:290:HIS:HB3	1:s:102:HIS:NE2	2.36	0.40
1:s:333:TYR:CE2	1:s:335:TRP:HE3	2.39	0.40
1:s:418:ASN:OD1	1:s:419:ASP:N	2.53	0.40
1:s:543:GLN:HA	1:s:546:VAL:HG12	2.02	0.40
1:t:109:TRP:CE3	1:t:109:TRP:HA	2.56	0.40
1:t:290:HIS:HB3	1:u:102:HIS:NE2	2.36	0.40
1:t:423:SER:O	1:u:94:ARG:NE	2.53	0.40
1:u:57:ILE:HG12	1:u:517:ILE:CD1	2.51	0.40
1:u:68:MET:HB3	1:u:69:SER:C	2.46	0.40
1:w:223:GLN:HB3	1:w:226:ARG:O	2.22	0.40
1:w:340:ILE:N	1:x:412:ALA:O	2.53	0.40
1:x:62:ARG:NH1	1:x:119:VAL:HA	2.36	0.40
1:x:64:ILE:HG23	1:x:206:LEU:HD13	2.03	0.40
1:x:68:MET:HB3	1:x:69:SER:C	2.46	0.40
1:y:94:ARG:NE	1:6:423:SER:O	2.53	0.40
1:y:327:SER:HA	1:z:191:PHE:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:333:TYR:CE2	1:y:335:TRP:HE3	2.39	0.40
1:y:429:ARG:CG	1:z:221:ILE:HG22	2.51	0.40
1:z:57:ILE:HG12	1:z:517:ILE:CD1	2.51	0.40
1:z:68:MET:HB3	1:z:69:SER:C	2.46	0.40
1:z:439:TYR:CZ	1:6:469:ALA:HB2	2.50	0.40
1:6:219:ILE:HG22	1:6:232:GLU:HA	2.03	0.40
1:6:223:GLN:HB3	1:6:226:ARG:O	2.22	0.40
1:7:145:ILE:HG23	1:7:510:PHE:CD2	2.56	0.40
1:7:148:ILE:O	1:7:258:THR:HG23	2.21	0.40
1:B:64:ILE:HG23	1:B:206:LEU:HD13	2.03	0.40
1:B:65:HIS:HD2	1:B:205:LYS:HE2	1.86	0.40
1:B:191:PHE:CE2	1:L:327:SER:HA	2.56	0.40
1:B:327:SER:HA	1:J:191:PHE:CE2	2.56	0.40
1:B:429:ARG:CG	1:J:221:ILE:HG22	2.51	0.40
1:C:47:PHE:HE2	1:C:128:GLN:CB	2.34	0.40
1:C:109:TRP:CE3	1:C:109:TRP:HA	2.56	0.40
1:C:109:TRP:NE1	1:C:247:LEU:CD2	2.82	0.40
1:C:134:ARG:O	1:C:276:LEU:N	2.32	0.40
1:C:221:ILE:HG22	1:M:429:ARG:CG	2.51	0.40
1:C:381:TRP:CE3	1:C:384:GLY:HA3	2.57	0.40
1:C:418:ASN:OD1	1:C:419:ASP:N	2.53	0.40
1:C:443:ASP:OD1	1:1:462:THR:OG1	2.37	0.40
1:E:381:TRP:CE3	1:E:384:GLY:HA3	2.57	0.40
1:F:146:GLU:HA	1:F:147:ASN:HA	1.79	0.40
1:G:47:PHE:O	1:G:48:ILE:HD13	2.20	0.40
1:G:145:ILE:HG23	1:G:510:PHE:CD2	2.56	0.40
1:G:443:ASP:OD1	1:I:462:THR:OG1	2.37	0.40
1:H:68:MET:HB3	1:H:69:SER:C	2.46	0.40
1:H:561:ARG:HA	1:H:561:ARG:HD3	1.88	0.40
1:I:65:HIS:HD2	1:I:205:LYS:HE2	1.86	0.40
1:J:316:ARG:HH22	1:L:98:ASN:ND2	2.19	0.40
1:J:333:TYR:CE2	1:J:335:TRP:HE3	2.39	0.40
1:L:223:GLN:HB3	1:L:226:ARG:O	2.22	0.40
1:L:376:LYS:HA	1:L:395:TRP:HA	2.03	0.40
1:M:333:TYR:CE2	1:M:335:TRP:HE3	2.39	0.40
1:N:107:THR:OG1	1:N:108:PRO:HD2	2.20	0.40
1:O:223:GLN:HB3	1:O:226:ARG:O	2.22	0.40
1:P:223:GLN:HB3	1:P:226:ARG:O	2.22	0.40
1:P:333:TYR:CE2	1:P:335:TRP:CE3	3.06	0.40
1:R:460:ASP:OD1	1:R:460:ASP:N	2.50	0.40
1:S:57:ILE:HG12	1:S:517:ILE:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:145:ILE:HG23	1:S:510:PHE:CD2	2.57	0.40
1:T:47:PHE:O	1:T:48:ILE:HD13	2.20	0.40
1:T:65:HIS:HD2	1:T:205:LYS:HE2	1.86	0.40
1:U:333:TYR:CE2	1:U:335:TRP:HE3	2.39	0.40
1:V:57:ILE:HG12	1:V:517:ILE:CD1	2.51	0.40
1:V:311:TRP:CE3	1:4:377:ALA:HB2	2.56	0.40
1:W:145:ILE:HG23	1:W:510:PHE:CD2	2.56	0.40
1:X:65:HIS:HD2	1:X:205:LYS:HE2	1.86	0.40
1:X:223:GLN:HB3	1:X:226:ARG:O	2.22	0.40
1:X:256:LEU:HD11	1:X:262:TRP:CB	2.49	0.40
1:Y:68:MET:CA	1:Y:69:SER:HB3	2.48	0.40
1:Y:145:ILE:HG23	1:Y:510:PHE:CD2	2.56	0.40
1:Z:43:ASN:HD22	1:Z:200:PRO:HB3	1.84	0.40
1:Z:219:ILE:HG22	1:Z:232:GLU:HA	2.03	0.40
1:Z:354:PRO:HA	1:Z:373:ALA:HB3	2.01	0.40
1:Z:357:GLN:CB	1:Z:362:SER:HB3	2.47	0.40
1:0:47:PHE:HE2	1:0:128:GLN:CB	2.34	0.40
1:0:68:MET:HB3	1:0:69:SER:C	2.46	0.40
1:0:311:TRP:CE3	1:7:377:ALA:HB2	2.57	0.40
1:2:57:ILE:HG12	1:2:517:ILE:CD1	2.51	0.40
1:2:65:HIS:HD2	1:2:205:LYS:HE2	1.86	0.40
1:2:191:PHE:CE2	1:j:327:SER:HA	2.56	0.40
1:2:223:GLN:HB3	1:2:226:ARG:O	2.22	0.40
1:3:263:GLU:HA	1:3:264:SER:HA	1.76	0.40
1:3:333:TYR:CE2	1:3:335:TRP:HE3	2.39	0.40
1:3:431:SER:OG	1:3:433:HIS:CD2	2.68	0.40
1:4:71:MET:HB2	1:4:75:ARG:HH22	1.85	0.40
1:5:68:MET:HB3	1:5:69:SER:C	2.46	0.40
1:5:145:ILE:HG23	1:5:510:PHE:CD2	2.56	0.40
1:5:191:PHE:CE2	1:a:327:SER:HA	2.56	0.40
1:5:333:TYR:CE2	1:5:335:TRP:HE3	2.39	0.40
1:a:64:ILE:HG23	1:a:206:LEU:HD13	2.03	0.40
1:a:68:MET:HB3	1:a:69:SER:C	2.46	0.40
1:a:145:ILE:HG23	1:a:510:PHE:CD2	2.56	0.40
1:a:354:PRO:HA	1:a:373:ALA:HB3	2.01	0.40
1:a:418:ASN:OD1	1:a:419:ASP:N	2.53	0.40
1:a:462:THR:OG1	1:b:443:ASP:OD1	2.37	0.40
1:b:47:PHE:O	1:b:48:ILE:HD13	2.20	0.40
1:b:223:GLN:HB3	1:b:226:ARG:O	2.22	0.40
1:c:102:HIS:NE2	1:e:290:HIS:HB3	2.36	0.40
1:c:223:GLN:HB3	1:c:226:ARG:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:316:ARG:HH22	1:d:98:ASN:ND2	2.19	0.40
1:c:340:ILE:N	1:e:412:ALA:O	2.53	0.40
1:c:462:THR:OG1	1:e:443:ASP:OD1	2.37	0.40
1:d:68:MET:CA	1:d:69:SER:HB3	2.48	0.40
1:d:71:MET:HB2	1:d:75:ARG:HH22	1.85	0.40
1:d:381:TRP:CE3	1:d:384:GLY:HA3	2.57	0.40
1:e:219:ILE:HG22	1:e:232:GLU:HA	2.03	0.40
1:e:418:ASN:OD1	1:e:419:ASP:N	2.53	0.40
1:f:223:GLN:HB3	1:f:226:ARG:O	2.22	0.40
1:f:333:TYR:CE2	1:f:335:TRP:HE3	2.40	0.40
1:g:322:ALA:HB3	1:h:100:SER:HB2	2.02	0.40
1:h:333:TYR:CE2	1:h:335:TRP:HE3	2.39	0.40
1:i:47:PHE:O	1:i:48:ILE:HD13	2.20	0.40
1:i:68:MET:HB3	1:i:69:SER:C	2.46	0.40
1:i:100:SER:O	1:i:100:SER:OG	2.23	0.40
1:i:376:LYS:HA	1:i:395:TRP:HA	2.04	0.40
1:k:223:GLN:HB3	1:k:226:ARG:O	2.22	0.40
1:k:396:GLN:OE1	1:k:396:GLN:N	2.55	0.40
1:k:511:TRP:HE1	1:s:173:LEU:CD1	2.29	0.40
1:l:219:ILE:HG22	1:l:232:GLU:HA	2.03	0.40
1:m:47:PHE:O	1:m:48:ILE:HD13	2.20	0.40
1:o:205:LYS:HE3	1:o:205:LYS:HB2	1.92	0.40
1:p:390:MET:HA	1:p:391:ARG:HA	1.72	0.40
1:q:71:MET:HB2	1:q:75:ARG:HH22	1.85	0.40
1:q:145:ILE:HG23	1:q:510:PHE:CD2	2.56	0.40
1:q:377:ALA:HB2	1:s:311:TRP:CE3	2.57	0.40
1:q:559:PRO:HA	1:q:560:GLY:HA3	1.80	0.40
1:r:47:PHE:HE2	1:r:128:GLN:CB	2.34	0.40
1:r:318:ASN:HA	1:r:319:PRO:HA	1.81	0.40
1:s:64:ILE:HG23	1:s:206:LEU:HD13	2.03	0.40
1:t:469:ALA:HB2	1:v:439:TYR:CZ	2.50	0.40
1:v:68:MET:HB3	1:v:69:SER:C	2.46	0.40
1:w:47:PHE:O	1:w:48:ILE:HD13	2.20	0.40
1:w:145:ILE:HG23	1:w:510:PHE:CD2	2.56	0.40
1:x:223:GLN:HB3	1:x:226:ARG:O	2.22	0.40
1:y:68:MET:CA	1:y:69:SER:HB3	2.48	0.40
1:y:145:ILE:HG23	1:y:510:PHE:CD2	2.56	0.40
1:z:47:PHE:O	1:z:48:ILE:HD13	2.20	0.40
1:z:109:TRP:CE3	1:z:109:TRP:HA	2.56	0.40
1:6:33:GLY:C	1:6:36:HIS:HD2	2.17	0.40
1:6:333:TYR:CE2	1:6:335:TRP:HE3	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:57:ILE:HG12	1:7:517:ILE:CD1	2.51	0.40
1:A:145:ILE:HG23	1:A:510:PHE:CD2	2.56	0.40
1:A:391:ARG:HH12	1:I:307:ASN:C	2.30	0.40
1:B:145:ILE:HG23	1:B:510:PHE:CD2	2.56	0.40
1:B:354:PRO:HA	1:B:373:ALA:HB3	2.01	0.40
1:C:205:LYS:HE3	1:C:205:LYS:HB2	1.91	0.40
1:C:290:HIS:HB3	1:1:102:HIS:NE2	2.36	0.40
1:D:71:MET:HB2	1:D:75:ARG:HH22	1.85	0.40
1:D:377:ALA:HB2	1:P:311:TRP:CE3	2.57	0.40
1:E:62:ARG:NH1	1:E:119:VAL:HA	2.36	0.40
1:F:33:GLY:C	1:F:36:HIS:HD2	2.17	0.40
1:F:67:ASN:OD1	1:F:67:ASN:N	2.54	0.40
1:F:173:LEU:CD1	1:R:511:TRP:HE1	2.29	0.40
1:F:396:GLN:OE1	1:F:396:GLN:N	2.55	0.40
1:H:33:GLY:C	1:H:36:HIS:HD2	2.17	0.40
1:H:290:HIS:HB3	1:W:102:HIS:NE2	2.36	0.40
1:I:109:TRP:CE3	1:I:109:TRP:HA	2.56	0.40
1:I:263:GLU:HA	1:I:264:SER:HA	1.76	0.40
1:I:381:TRP:CE3	1:I:384:GLY:HA3	2.57	0.40
1:J:327:SER:HA	1:L:191:PHE:CE2	2.56	0.40
1:K:71:MET:HB2	1:K:75:ARG:HH22	1.85	0.40
1:K:109:TRP:HZ3	1:K:485:LYS:CB	2.27	0.40
1:K:145:ILE:HG23	1:K:510:PHE:CD2	2.56	0.40
1:K:561:ARG:HA	1:K:561:ARG:HD3	1.88	0.40
1:L:47:PHE:O	1:L:48:ILE:HD13	2.20	0.40
1:L:337:GLU:CB	1:L:338:TRP:CA	2.99	0.40
1:L:396:GLN:OE1	1:L:396:GLN:N	2.55	0.40
1:M:67:ASN:OD1	1:M:67:ASN:N	2.54	0.40
1:M:98:ASN:ND2	1:1:316:ARG:HH22	2.19	0.40
1:M:145:ILE:HG23	1:M:510:PHE:CD2	2.56	0.40
1:M:381:TRP:CE3	1:M:384:GLY:HA3	2.57	0.40
1:M:396:GLN:OE1	1:M:396:GLN:N	2.55	0.40
1:M:491:THR:OG1	1:M:502:SER:O	2.30	0.40
1:N:47:PHE:HE2	1:N:128:GLN:CB	2.34	0.40
1:O:47:PHE:HE2	1:O:128:GLN:CB	2.34	0.40
1:O:65:HIS:HD2	1:O:205:LYS:HE2	1.86	0.40
1:O:102:HIS:NE2	1:h:290:HIS:HB3	2.36	0.40
1:O:145:ILE:HG23	1:O:510:PHE:CD2	2.56	0.40
1:O:290:HIS:HB3	1:g:102:HIS:NE2	2.36	0.40
1:O:381:TRP:CE3	1:O:384:GLY:HA3	2.57	0.40
1:P:68:MET:SD	1:P:503:ARG:NE	2.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:223:GLN:HB3	1:Q:226:ARG:O	2.22	0.40
1:Q:396:GLN:OE1	1:Q:396:GLN:N	2.55	0.40
1:R:173:LEU:CD1	1:V:511:TRP:HE1	2.29	0.40
1:S:71:MET:HB2	1:S:75:ARG:HH22	1.85	0.40
1:S:109:TRP:CE3	1:S:109:TRP:HA	2.56	0.40
1:S:109:TRP:HZ3	1:S:485:LYS:CB	2.27	0.40
1:T:327:SER:HA	1:3:191:PHE:CE2	2.56	0.40
1:T:340:ILE:N	1:f:412:ALA:O	2.53	0.40
1:T:429:ARG:CG	1:3:221:ILE:HG22	2.51	0.40
1:U:68:MET:SD	1:U:503:ARG:NE	2.92	0.40
1:V:68:MET:HB3	1:V:69:SER:C	2.46	0.40
1:V:377:ALA:HB2	1:X:311:TRP:CE3	2.57	0.40
1:W:219:ILE:HG22	1:W:232:GLU:HA	2.03	0.40
1:W:333:TYR:CE2	1:W:335:TRP:HE3	2.39	0.40
1:X:47:PHE:HE2	1:X:128:GLN:CB	2.34	0.40
1:X:68:MET:HB3	1:X:69:SER:C	2.46	0.40
1:X:381:TRP:CE3	1:X:384:GLY:HA3	2.57	0.40
1:Y:43:ASN:HD22	1:Y:200:PRO:HB3	1.84	0.40
1:Y:47:PHE:O	1:Y:48:ILE:HD13	2.20	0.40
1:Y:65:HIS:HD2	1:Y:205:LYS:HE2	1.86	0.40
1:Y:354:PRO:HA	1:Y:373:ALA:HB3	2.02	0.40
1:Z:290:HIS:HB3	1:x:102:HIS:NE2	2.36	0.40
1:0:65:HIS:HD2	1:0:205:LYS:HE2	1.86	0.40
1:0:381:TRP:CE3	1:0:384:GLY:HA3	2.57	0.40
1:1:223:GLN:HB3	1:1:226:ARG:O	2.22	0.40
1:2:145:ILE:HG23	1:2:510:PHE:CD2	2.57	0.40
1:2:257:ARG:CG	1:m:37:SER:CB	2.73	0.40
1:3:67:ASN:OD1	1:3:67:ASN:N	2.54	0.40
1:3:396:GLN:OE1	1:3:396:GLN:N	2.55	0.40
1:4:67:ASN:OD1	1:4:67:ASN:N	2.54	0.40
1:4:109:TRP:HZ3	1:4:485:LYS:CB	2.27	0.40
1:4:145:ILE:HG23	1:4:510:PHE:CD2	2.56	0.40
1:5:366:GLY:HA2	1:5:367:THR:HA	1.76	0.40
1:b:337:GLU:CB	1:b:338:TRP:CA	2.99	0.40
1:b:376:LYS:HA	1:b:395:TRP:HA	2.04	0.40
1:b:396:GLN:OE1	1:b:396:GLN:N	2.55	0.40
1:c:263:GLU:HA	1:c:264:SER:HA	1.76	0.40
1:c:311:TRP:CE3	1:d:377:ALA:HB2	2.57	0.40
1:d:67:ASN:OD1	1:d:67:ASN:N	2.54	0.40
1:d:396:GLN:OE1	1:d:396:GLN:N	2.55	0.40
1:f:57:ILE:HG12	1:f:517:ILE:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:67:ASN:OD1	1:f:67:ASN:N	2.54	0.40
1:f:145:ILE:HG23	1:f:510:PHE:CD2	2.56	0.40
1:f:381:TRP:CE3	1:f:384:GLY:HA3	2.57	0.40
1:g:68:MET:HB3	1:g:69:SER:C	2.46	0.40
1:g:219:ILE:HG22	1:g:232:GLU:HA	2.03	0.40
1:h:68:MET:SD	1:h:503:ARG:NE	2.92	0.40
1:i:65:HIS:HD2	1:i:205:LYS:HE2	1.86	0.40
1:i:223:GLN:HB3	1:i:226:ARG:O	2.22	0.40
1:i:327:SER:HA	1:j:191:PHE:CE2	2.56	0.40
1:j:145:ILE:HG23	1:j:510:PHE:CD2	2.57	0.40
1:j:333:TYR:CE2	1:j:335:TRP:HE3	2.39	0.40
1:j:396:GLN:OE1	1:j:396:GLN:N	2.55	0.40
1:k:64:ILE:HG23	1:k:206:LEU:HD13	2.03	0.40
1:k:65:HIS:HD2	1:k:205:LYS:HE2	1.86	0.40
1:l:71:MET:HB2	1:l:75:ARG:HH22	1.85	0.40
1:l:223:GLN:HB3	1:l:226:ARG:O	2.21	0.40
1:l:311:TRP:CE3	1:m:377:ALA:HB2	2.57	0.40
1:l:418:ASN:OD1	1:l:419:ASP:N	2.53	0.40
1:m:68:MET:HB3	1:m:69:SER:C	2.46	0.40
1:m:97:ILE:CG2	1:m:340:ILE:HG21	2.52	0.40
1:m:333:TYR:CE2	1:m:335:TRP:HE3	2.39	0.40
1:n:223:GLN:HB3	1:n:226:ARG:O	2.22	0.40
1:n:340:ILE:N	1:p:412:ALA:O	2.53	0.40
1:n:377:ALA:HB2	1:p:311:TRP:CE3	2.57	0.40
1:o:67:ASN:OD1	1:o:67:ASN:N	2.54	0.40
1:p:223:GLN:HB3	1:p:226:ARG:O	2.22	0.40
1:p:318:ASN:HA	1:p:319:PRO:HA	1.81	0.40
1:p:381:TRP:CE3	1:p:384:GLY:HA3	2.57	0.40
1:q:469:ALA:HB2	1:s:439:TYR:CZ	2.50	0.40
1:r:64:ILE:HG23	1:r:206:LEU:HD13	2.03	0.40
1:r:145:ILE:HG23	1:r:510:PHE:CD2	2.56	0.40
1:s:68:MET:SD	1:s:503:ARG:NE	2.92	0.40
1:s:223:GLN:HB3	1:s:226:ARG:O	2.22	0.40
1:t:64:ILE:HG23	1:t:206:LEU:HD13	2.03	0.40
1:t:376:LYS:HA	1:t:395:TRP:HA	2.04	0.40
1:t:381:TRP:CE3	1:t:384:GLY:HA3	2.57	0.40
1:t:418:ASN:OD1	1:t:419:ASP:N	2.53	0.40
1:u:290:HIS:HB3	1:v:102:HIS:NE2	2.36	0.40
1:u:311:TRP:CE3	1:v:377:ALA:HB2	2.57	0.40
1:v:145:ILE:HG23	1:v:510:PHE:CD2	2.57	0.40
1:w:102:HIS:NE2	1:x:290:HIS:HB3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:191:PHE:CE2	1:x:327:SER:HA	2.56	0.40
1:w:219:ILE:HG22	1:w:232:GLU:HA	2.03	0.40
1:x:68:MET:CA	1:x:69:SER:HB3	2.48	0.40
1:x:148:ILE:O	1:x:258:THR:HG23	2.21	0.40
1:x:381:TRP:CE3	1:x:384:GLY:HA3	2.57	0.40
1:y:47:PHE:O	1:y:48:ILE:HD13	2.20	0.40
1:z:71:MET:HB2	1:z:75:ARG:HH22	1.85	0.40
1:6:68:MET:SD	1:6:503:ARG:NE	2.92	0.40
1:7:68:MET:HB3	1:7:69:SER:C	2.46	0.40
1:A:67:ASN:OD1	1:A:67:ASN:N	2.54	0.40
1:A:97:ILE:CG2	1:A:340:ILE:HD12	2.49	0.40
1:B:311:TRP:CE3	1:J:377:ALA:HB2	2.57	0.40
1:B:377:ALA:HB2	1:L:311:TRP:CE3	2.57	0.40
1:B:381:TRP:CE3	1:B:384:GLY:HA3	2.57	0.40
1:B:418:ASN:OD1	1:B:419:ASP:N	2.53	0.40
1:D:148:ILE:O	1:D:258:THR:HG23	2.21	0.40
1:D:173:LEU:CD1	1:E:511:TRP:HE1	2.29	0.40
1:D:366:GLY:HA2	1:D:367:THR:HA	1.76	0.40
1:D:381:TRP:CE3	1:D:384:GLY:HA3	2.57	0.40
1:D:396:GLN:OE1	1:D:396:GLN:N	2.55	0.40
1:E:311:TRP:CE3	1:Q:377:ALA:HB2	2.57	0.40
1:F:376:LYS:HA	1:F:395:TRP:HA	2.04	0.40
1:G:65:HIS:HD2	1:G:205:LYS:HE2	1.86	0.40
1:G:333:TYR:CE2	1:G:335:TRP:HE3	2.39	0.40
1:G:561:ARG:HA	1:G:561:ARG:HD3	1.88	0.40
1:H:148:ILE:O	1:H:258:THR:HG23	2.21	0.40
1:H:327:SER:HA	1:W:191:PHE:CE2	2.56	0.40
1:H:381:TRP:CE3	1:H:384:GLY:HA3	2.57	0.40
1:J:381:TRP:CE3	1:J:384:GLY:HA3	2.57	0.40
1:K:67:ASN:OD1	1:K:67:ASN:N	2.54	0.40
1:K:85:PHE:CD1	1:K:99:ASP:HB3	2.53	0.40
1:K:311:TRP:CE3	1:0:377:ALA:HB2	2.56	0.40
1:L:511:TRP:HE1	1:1:173:LEU:CD1	2.29	0.40
1:M:71:MET:HB2	1:M:75:ARG:HH22	1.85	0.40
1:M:219:ILE:HG22	1:M:232:GLU:HA	2.03	0.40
1:N:64:ILE:HG23	1:N:206:LEU:HD13	2.03	0.40
1:N:145:ILE:HG23	1:N:510:PHE:CD2	2.56	0.40
1:O:64:ILE:HG23	1:O:206:LEU:HD13	2.03	0.40
1:O:316:ARG:HH22	1:g:98:ASN:ND2	2.19	0.40
1:P:148:ILE:O	1:P:258:THR:HG23	2.21	0.40
1:P:381:TRP:CE3	1:P:384:GLY:HA3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:543:GLN:HA	1:P:546:VAL:HG12	2.02	0.40
1:Q:247:LEU:C	1:Q:249:THR:N	2.78	0.40
1:Q:333:TYR:CE2	1:Q:335:TRP:HE3	2.39	0.40
1:R:47:PHE:O	1:R:48:ILE:HD13	2.20	0.40
1:R:221:ILE:HG22	1:U:429:ARG:CG	2.51	0.40
1:S:47:PHE:HE2	1:S:128:GLN:CB	2.34	0.40
1:S:439:TYR:CZ	1:U:469:ALA:HB2	2.50	0.40
1:T:257:ARG:HG2	1:c:37:SER:CA	2.32	0.40
1:T:290:HIS:HB3	1:3:102:HIS:NE2	2.36	0.40
1:U:64:ILE:HG23	1:U:206:LEU:HD13	2.03	0.40
1:U:109:TRP:CE3	1:U:109:TRP:HA	2.56	0.40
1:V:97:ILE:CG2	1:V:340:ILE:HG21	2.52	0.40
1:V:148:ILE:O	1:V:258:THR:HG23	2.21	0.40
1:W:148:ILE:O	1:W:258:THR:HG23	2.21	0.40
1:W:381:TRP:CE3	1:W:384:GLY:HA3	2.57	0.40
1:X:333:TYR:CE2	1:X:335:TRP:HE3	2.39	0.40
1:Y:219:ILE:HG22	1:Y:232:GLU:HA	2.03	0.40
1:Z:47:PHE:O	1:Z:48:ILE:HD13	2.20	0.40
1:0:223:GLN:HB3	1:0:226:ARG:O	2.22	0.40
1:0:333:TYR:CE2	1:0:335:TRP:HE3	2.39	0.40
1:2:148:ILE:O	1:2:258:THR:HG23	2.21	0.40
1:2:377:ALA:HB2	1:j:311:TRP:CE3	2.57	0.40
1:2:381:TRP:CE3	1:2:384:GLY:HA3	2.57	0.40
1:4:97:ILE:CG2	1:4:340:ILE:HG21	2.52	0.40
1:4:561:ARG:HA	1:4:561:ARG:HD3	1.88	0.40
1:a:65:HIS:HD2	1:a:205:LYS:HE2	1.86	0.40
1:a:219:ILE:HG22	1:a:232:GLU:HA	2.03	0.40
1:a:381:TRP:CE3	1:a:384:GLY:HA3	2.57	0.40
1:d:146:GLU:HA	1:d:147:ASN:HA	1.78	0.40
1:d:247:LEU:C	1:d:249:THR:N	2.78	0.40
1:e:33:GLY:C	1:e:36:HIS:HD2	2.17	0.40
1:e:109:TRP:NE1	1:e:247:LEU:CD2	2.82	0.40
1:e:284:ARG:O	1:e:284:ARG:CG	2.70	0.40
1:f:257:ARG:CG	1:h:37:SER:CB	2.73	0.40
1:g:68:MET:CA	1:g:69:SER:HB3	2.48	0.40
1:g:71:MET:HB2	1:g:75:ARG:HH22	1.85	0.40
1:g:223:GLN:HB3	1:g:226:ARG:O	2.22	0.40
1:g:311:TRP:CE3	1:h:377:ALA:HB2	2.57	0.40
1:h:318:ASN:HA	1:h:319:PRO:HA	1.81	0.40
1:i:429:ARG:CG	1:j:221:ILE:HG22	2.51	0.40
1:j:47:PHE:HE2	1:j:128:GLN:CB	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:67:ASN:OD1	1:j:67:ASN:N	2.54	0.40
1:k:47:PHE:HE2	1:k:128:GLN:CB	2.34	0.40
1:k:102:HIS:NE2	1:m:290:HIS:HB3	2.36	0.40
1:k:145:ILE:HG23	1:k:510:PHE:CD2	2.56	0.40
1:k:290:HIS:HB3	1:l:102:HIS:NE2	2.36	0.40
1:k:316:ARG:HH22	1:l:98:ASN:ND2	2.19	0.40
1:k:381:TRP:CE3	1:k:384:GLY:HA3	2.57	0.40
1:l:109:TRP:CE3	1:l:109:TRP:HA	2.56	0.40
1:n:247:LEU:C	1:n:249:THR:N	2.78	0.40
1:n:376:LYS:HA	1:n:395:TRP:HA	2.04	0.40
1:n:396:GLN:OE1	1:n:396:GLN:N	2.55	0.40
1:o:223:GLN:HB3	1:o:226:ARG:O	2.21	0.40
1:o:376:LYS:HA	1:o:395:TRP:HA	2.04	0.40
1:p:57:ILE:HG12	1:p:517:ILE:CD1	2.51	0.40
1:q:191:PHE:CE2	1:s:327:SER:HA	2.56	0.40
1:q:396:GLN:OE1	1:q:396:GLN:N	2.55	0.40
1:q:443:ASP:OD1	1:r:462:THR:OG1	2.37	0.40
1:s:376:LYS:HA	1:s:395:TRP:HA	2.04	0.40
1:t:102:HIS:HE1	1:t:104:LYS:CE	2.35	0.40
1:u:67:ASN:OD1	1:u:67:ASN:N	2.54	0.40
1:u:97:ILE:CG2	1:u:340:ILE:HD12	2.49	0.40
1:u:390:MET:HA	1:u:391:ARG:HA	1.72	0.40
1:v:47:PHE:O	1:v:48:ILE:HD13	2.20	0.40
1:v:333:TYR:CE2	1:v:335:TRP:HE3	2.39	0.40
1:w:148:ILE:O	1:w:258:THR:HG23	2.21	0.40
1:w:333:TYR:CE2	1:w:335:TRP:HE3	2.39	0.40
1:x:263:GLU:HA	1:x:264:SER:HA	1.76	0.40
1:x:334:SER:HG	1:x:435:THR:CB	2.29	0.40
1:y:97:ILE:CG2	1:y:340:ILE:HG21	2.52	0.40
1:y:223:GLN:HB3	1:y:226:ARG:O	2.22	0.40
1:y:257:ARG:HG2	1:7:37:SER:CA	2.32	0.40
1:z:47:PHE:HE2	1:z:128:GLN:CB	2.34	0.40
1:6:64:ILE:HG23	1:6:206:LEU:HD13	2.03	0.40
1:7:318:ASN:HA	1:7:319:PRO:HA	1.81	0.40
1:7:333:TYR:CE2	1:7:335:TRP:HE3	2.39	0.40
1:B:219:ILE:HG22	1:B:232:GLU:HA	2.03	0.40
1:B:333:TYR:CE2	1:B:335:TRP:HE3	2.39	0.40
1:B:390:MET:HA	1:B:391:ARG:HA	1.72	0.40
1:C:250:MET:HB2	1:C:251:ILE:HG23	2.01	0.40
1:E:57:ILE:HG12	1:E:517:ILE:CD1	2.51	0.40
1:E:223:GLN:HB3	1:E:226:ARG:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:223:GLN:HB3	1:F:226:ARG:O	2.22	0.40
1:F:377:ALA:HB2	1:Q:311:TRP:CE3	2.57	0.40
1:G:396:GLN:OE1	1:G:396:GLN:N	2.55	0.40
1:H:284:ARG:O	1:H:284:ARG:CG	2.70	0.40
1:H:337:GLU:CB	1:H:338:TRP:CA	2.99	0.40
1:H:450:PRO:HG2	1:H:451:TRP:CD2	2.57	0.40
1:H:511:TRP:HE1	1:I:173:LEU:CD1	2.29	0.40
1:I:102:HIS:HE1	1:I:104:LYS:CE	2.35	0.40
1:I:145:ILE:HG23	1:I:510:PHE:CD2	2.56	0.40
1:I:418:ASN:OD1	1:I:419:ASP:N	2.53	0.40
1:J:311:TRP:CE3	1:L:377:ALA:HB2	2.57	0.40
1:J:376:LYS:HA	1:J:395:TRP:HA	2.03	0.40
1:K:97:ILE:CG2	1:K:340:ILE:HG21	2.52	0.40
1:K:376:LYS:HA	1:K:395:TRP:HA	2.04	0.40
1:K:377:ALA:HB2	1:7:311:TRP:CE3	2.57	0.40
1:L:333:TYR:CE2	1:L:335:TRP:HE3	2.39	0.40
1:M:263:GLU:HA	1:M:264:SER:HA	1.76	0.40
1:M:377:ALA:HB2	1:1:311:TRP:CE3	2.57	0.40
1:N:219:ILE:HG22	1:N:232:GLU:HA	2.03	0.40
1:N:223:GLN:HB3	1:N:226:ARG:O	2.22	0.40
1:O:97:ILE:CG2	1:O:340:ILE:HG21	2.52	0.40
1:P:71:MET:HB2	1:P:75:ARG:HH22	1.85	0.40
1:P:376:LYS:HA	1:P:395:TRP:HA	2.04	0.40
1:Q:376:LYS:HA	1:Q:395:TRP:HA	2.04	0.40
1:R:97:ILE:CG2	1:R:340:ILE:HG21	2.52	0.40
1:R:223:GLN:HB3	1:R:226:ARG:O	2.22	0.40
1:S:64:ILE:HG23	1:S:206:LEU:HD13	2.03	0.40
1:S:223:GLN:HB3	1:S:226:ARG:O	2.22	0.40
1:T:98:ASN:ND2	1:f:316:ARG:HH22	2.19	0.40
1:T:311:TRP:CE3	1:3:377:ALA:HB2	2.57	0.40
1:U:84:LEU:HD23	1:U:84:LEU:HA	1.90	0.40
1:U:148:ILE:O	1:U:258:THR:HG23	2.21	0.40
1:V:62:ARG:NH1	1:V:119:VAL:HA	2.36	0.40
1:V:333:TYR:CE2	1:V:335:TRP:HE3	2.39	0.40
1:V:561:ARG:HA	1:V:561:ARG:HD3	1.88	0.40
1:W:97:ILE:CG2	1:W:340:ILE:HG21	2.52	0.40
1:W:366:GLY:HA2	1:W:367:THR:HA	1.76	0.40
1:W:561:ARG:HA	1:W:561:ARG:HD3	1.88	0.40
1:Y:102:HIS:HE1	1:Y:104:LYS:CE	2.35	0.40
1:Y:357:GLN:CB	1:Y:362:SER:HB3	2.47	0.40
1:Y:561:ARG:HA	1:Y:561:ARG:HD3	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:102:HIS:HE1	1:Z:104:LYS:CE	2.35	0.40
1:Z:561:ARG:HA	1:Z:561:ARG:HD3	1.88	0.40
1:0:256:LEU:HD11	1:0:262:TRP:CB	2.49	0.40
1:1:37:SER:CA	1:i:257:ARG:HG2	2.32	0.40
1:1:97:ILE:CG2	1:1:340:ILE:HG21	2.52	0.40
1:2:67:ASN:OD1	1:2:67:ASN:N	2.54	0.40
1:2:102:HIS:NE2	1:j:290:HIS:HB3	2.36	0.40
1:2:396:GLN:OE1	1:2:396:GLN:N	2.55	0.40
1:3:47:PHE:HE2	1:3:128:GLN:CB	2.34	0.40
1:3:223:GLN:HB3	1:3:226:ARG:O	2.22	0.40
1:3:290:HIS:HB3	1:f:102:HIS:NE2	2.36	0.40
1:3:311:TRP:CE3	1:f:377:ALA:HB2	2.57	0.40
1:4:85:PHE:CD1	1:4:99:ASP:HB3	2.53	0.40
1:4:333:TYR:CE2	1:4:335:TRP:HE3	2.39	0.40
1:5:376:LYS:HA	1:5:395:TRP:HA	2.04	0.40
1:5:381:TRP:CE3	1:5:384:GLY:HA3	2.57	0.40
1:b:97:ILE:CG2	1:b:340:ILE:HG21	2.52	0.40
1:d:145:ILE:HG23	1:d:510:PHE:CD2	2.56	0.40
1:d:219:ILE:HG22	1:d:232:GLU:HA	2.03	0.40
1:d:429:ARG:CG	1:e:221:ILE:HG22	2.51	0.40
1:e:67:ASN:OD1	1:e:67:ASN:N	2.54	0.40
1:e:250:MET:HB2	1:e:251:ILE:HG23	2.01	0.40
1:e:333:TYR:CE2	1:e:335:TRP:HE3	2.39	0.40
1:g:97:ILE:CG2	1:g:340:ILE:HG21	2.52	0.40
1:g:109:TRP:CE3	1:g:109:TRP:HA	2.56	0.40
1:g:381:TRP:CE3	1:g:384:GLY:HA3	2.57	0.40
1:h:284:ARG:O	1:h:284:ARG:CG	2.70	0.40
1:h:381:TRP:CE3	1:h:384:GLY:HA3	2.57	0.40
1:i:146:GLU:HA	1:i:147:ASN:HA	1.79	0.40
1:i:290:HIS:HB3	1:j:102:HIS:NE2	2.36	0.40
1:j:205:LYS:HB2	1:j:205:LYS:HE3	1.91	0.40
1:k:97:ILE:CG2	1:k:340:ILE:HG21	2.52	0.40
1:l:68:MET:HB3	1:l:69:SER:C	2.46	0.40
1:l:68:MET:CA	1:l:69:SER:HB3	2.48	0.40
1:l:97:ILE:CG2	1:l:340:ILE:HG21	2.52	0.40
1:m:284:ARG:O	1:m:284:ARG:CG	2.70	0.40
1:m:381:TRP:CE3	1:m:384:GLY:HA3	2.57	0.40
1:n:311:TRP:CE3	1:o:377:ALA:HB2	2.57	0.40
1:n:333:TYR:CE2	1:n:335:TRP:HE3	2.39	0.40
1:o:33:GLY:C	1:o:36:HIS:HD2	2.17	0.40
1:o:173:LEU:CD1	1:y:511:TRP:HE1	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:376:LYS:HA	1:p:395:TRP:HA	2.03	0.40
1:p:511:TRP:HE1	1:q:173:LEU:CD1	2.29	0.40
1:q:97:ILE:CG2	1:q:340:ILE:HG21	2.52	0.40
1:q:381:TRP:CE3	1:q:384:GLY:HA3	2.57	0.40
1:r:33:GLY:C	1:r:36:HIS:HD2	2.17	0.40
1:r:327:SER:HA	1:s:191:PHE:CE2	2.56	0.40
1:s:146:GLU:HA	1:s:147:ASN:HA	1.79	0.40
1:s:148:ILE:O	1:s:258:THR:HG23	2.21	0.40
1:s:381:TRP:CE3	1:s:384:GLY:HA3	2.57	0.40
1:t:145:ILE:HG23	1:t:510:PHE:CD2	2.56	0.40
1:u:145:ILE:HG23	1:u:510:PHE:CD2	2.57	0.40
1:u:381:TRP:CE3	1:u:384:GLY:HA3	2.57	0.40
1:v:561:ARG:HA	1:v:561:ARG:HD3	1.88	0.40
1:w:381:TRP:CE3	1:w:384:GLY:HA3	2.57	0.40
1:x:284:ARG:O	1:x:284:ARG:CG	2.70	0.40
1:y:57:ILE:HG12	1:y:517:ILE:CD1	2.51	0.40
1:z:223:GLN:HB3	1:z:226:ARG:O	2.22	0.40
1:6:431:SER:OG	1:6:433:HIS:CD2	2.68	0.40
1:7:97:ILE:CG2	1:7:340:ILE:HG21	2.52	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	0	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	1	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	2	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	3	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	4	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	5	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	6	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	7	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	A	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	B	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	C	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	D	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	E	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	F	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	G	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	H	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	I	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	J	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	K	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	L	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	M	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	N	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	O	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	P	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	Q	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	R	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	S	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	T	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	U	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	V	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	W	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	X	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	Y	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	Z	533/537 (99%)	507 (95%)	25 (5%)	1 (0%)	43	73
1	a	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	b	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	c	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	d	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	e	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	f	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	g	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	h	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	i	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	j	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	k	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	l	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	m	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	n	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	o	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	p	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	q	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	r	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	s	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	t	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	u	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	v	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	w	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	x	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	y	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
1	z	533/537 (99%)	508 (95%)	24 (4%)	1 (0%)	43	73
All	All	31980/32220 (99%)	30479 (95%)	1441 (4%)	60 (0%)	44	73

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	193	ILE
1	H	193	ILE
1	S	193	ILE
1	V	193	ILE
1	1	193	ILE

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Mol	Chain	Res	Type
1	c	193	ILE
1	h	193	ILE
1	j	193	ILE
1	o	193	ILE
1	r	193	ILE
1	x	193	ILE
1	z	193	ILE
1	A	193	ILE
1	B	193	ILE
1	D	193	ILE
1	E	193	ILE
1	F	193	ILE
1	G	193	ILE
1	I	193	ILE
1	J	193	ILE
1	K	193	ILE
1	L	193	ILE
1	M	193	ILE
1	N	193	ILE
1	O	193	ILE
1	P	193	ILE
1	Q	193	ILE
1	R	193	ILE
1	T	193	ILE
1	U	193	ILE
1	W	193	ILE
1	X	193	ILE
1	Y	193	ILE
1	Z	193	ILE
1	0	193	ILE
1	2	193	ILE
1	3	193	ILE
1	4	193	ILE
1	5	193	ILE
1	a	193	ILE
1	b	193	ILE
1	d	193	ILE
1	e	193	ILE
1	f	193	ILE
1	g	193	ILE
1	i	193	ILE
1	k	193	ILE

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Mol	Chain	Res	Type
1	l	193	ILE
1	m	193	ILE
1	n	193	ILE
1	p	193	ILE
1	q	193	ILE
1	s	193	ILE
1	t	193	ILE
1	u	193	ILE
1	v	193	ILE
1	w	193	ILE
1	y	193	ILE
1	6	193	ILE
1	7	193	ILE

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	0	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	1	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	2	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	3	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	4	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	5	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	6	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	7	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	A	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	B	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	C	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	D	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	E	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	F	464/466 (100%)	452 (97%)	12 (3%)	40	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	H	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	I	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	J	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	K	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	L	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	M	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	N	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	O	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	P	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	Q	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	R	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	S	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	T	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	U	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	V	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	W	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	X	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	Y	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	Z	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	a	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	b	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	c	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	d	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	e	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	f	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	g	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	h	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	i	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	j	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	k	464/466 (100%)	452 (97%)	12 (3%)	40	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	l	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	m	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	n	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	o	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	p	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	q	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	r	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	s	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	t	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	u	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	v	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	w	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	x	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	y	464/466 (100%)	452 (97%)	12 (3%)	40	60
1	z	464/466 (100%)	452 (97%)	12 (3%)	40	60
All	All	27840/27960 (100%)	27120 (97%)	720 (3%)	41	60

All (720) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	99	ASP
1	A	111	LEU
1	A	112	LEU
1	A	247	LEU
1	A	257	ARG
1	A	337	GLU
1	A	349	ILE
1	A	430	ASN
1	A	433	HIS
1	A	470	HIS
1	A	536	LEU
1	A	558	LEU
1	B	99	ASP
1	B	111	LEU
1	B	112	LEU
1	B	247	LEU
1	B	257	ARG

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Mol	Chain	Res	Type
1	B	337	GLU
1	B	349	ILE
1	B	430	ASN
1	B	433	HIS
1	B	470	HIS
1	B	536	LEU
1	B	558	LEU
1	C	99	ASP
1	C	111	LEU
1	C	112	LEU
1	C	247	LEU
1	C	257	ARG
1	C	337	GLU
1	C	349	ILE
1	C	430	ASN
1	C	433	HIS
1	C	470	HIS
1	C	536	LEU
1	C	558	LEU
1	D	99	ASP
1	D	111	LEU
1	D	112	LEU
1	D	247	LEU
1	D	257	ARG
1	D	337	GLU
1	D	349	ILE
1	D	430	ASN
1	D	433	HIS
1	D	470	HIS
1	D	536	LEU
1	D	558	LEU
1	E	99	ASP
1	E	111	LEU
1	E	112	LEU
1	E	247	LEU
1	E	257	ARG
1	E	337	GLU
1	E	349	ILE
1	E	430	ASN
1	E	433	HIS
1	E	470	HIS
1	E	536	LEU

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Mol	Chain	Res	Type
1	E	558	LEU
1	F	99	ASP
1	F	111	LEU
1	F	112	LEU
1	F	247	LEU
1	F	257	ARG
1	F	337	GLU
1	F	349	ILE
1	F	430	ASN
1	F	433	HIS
1	F	470	HIS
1	F	536	LEU
1	F	558	LEU
1	G	99	ASP
1	G	111	LEU
1	G	112	LEU
1	G	247	LEU
1	G	257	ARG
1	G	337	GLU
1	G	349	ILE
1	G	430	ASN
1	G	433	HIS
1	G	470	HIS
1	G	536	LEU
1	G	558	LEU
1	H	99	ASP
1	H	111	LEU
1	H	112	LEU
1	H	247	LEU
1	H	257	ARG
1	H	337	GLU
1	H	349	ILE
1	H	430	ASN
1	H	433	HIS
1	H	470	HIS
1	H	536	LEU
1	H	558	LEU
1	I	99	ASP
1	I	111	LEU
1	I	112	LEU
1	I	247	LEU
1	I	257	ARG

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Mol	Chain	Res	Type
1	I	337	GLU
1	I	349	ILE
1	I	430	ASN
1	I	433	HIS
1	I	470	HIS
1	I	536	LEU
1	I	558	LEU
1	J	99	ASP
1	J	111	LEU
1	J	112	LEU
1	J	247	LEU
1	J	257	ARG
1	J	337	GLU
1	J	349	ILE
1	J	430	ASN
1	J	433	HIS
1	J	470	HIS
1	J	536	LEU
1	J	558	LEU
1	K	99	ASP
1	K	111	LEU
1	K	112	LEU
1	K	247	LEU
1	K	257	ARG
1	K	337	GLU
1	K	349	ILE
1	K	430	ASN
1	K	433	HIS
1	K	470	HIS
1	K	536	LEU
1	K	558	LEU
1	L	99	ASP
1	L	111	LEU
1	L	112	LEU
1	L	247	LEU
1	L	257	ARG
1	L	337	GLU
1	L	349	ILE
1	L	430	ASN
1	L	433	HIS
1	L	470	HIS
1	L	536	LEU

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Mol	Chain	Res	Type
1	L	558	LEU
1	M	99	ASP
1	M	111	LEU
1	M	112	LEU
1	M	247	LEU
1	M	257	ARG
1	M	337	GLU
1	M	349	ILE
1	M	430	ASN
1	M	433	HIS
1	M	470	HIS
1	M	536	LEU
1	M	558	LEU
1	N	99	ASP
1	N	111	LEU
1	N	112	LEU
1	N	247	LEU
1	N	257	ARG
1	N	337	GLU
1	N	349	ILE
1	N	430	ASN
1	N	433	HIS
1	N	470	HIS
1	N	536	LEU
1	N	558	LEU
1	O	99	ASP
1	O	111	LEU
1	O	112	LEU
1	O	247	LEU
1	O	257	ARG
1	O	337	GLU
1	O	349	ILE
1	O	430	ASN
1	O	433	HIS
1	O	470	HIS
1	O	536	LEU
1	O	558	LEU
1	P	99	ASP
1	P	111	LEU
1	P	112	LEU
1	P	247	LEU
1	P	257	ARG

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Mol	Chain	Res	Type
1	P	337	GLU
1	P	349	ILE
1	P	430	ASN
1	P	433	HIS
1	P	470	HIS
1	P	536	LEU
1	P	558	LEU
1	Q	99	ASP
1	Q	111	LEU
1	Q	112	LEU
1	Q	247	LEU
1	Q	257	ARG
1	Q	337	GLU
1	Q	349	ILE
1	Q	430	ASN
1	Q	433	HIS
1	Q	470	HIS
1	Q	536	LEU
1	Q	558	LEU
1	R	99	ASP
1	R	111	LEU
1	R	112	LEU
1	R	247	LEU
1	R	257	ARG
1	R	337	GLU
1	R	349	ILE
1	R	430	ASN
1	R	433	HIS
1	R	470	HIS
1	R	536	LEU
1	R	558	LEU
1	S	99	ASP
1	S	111	LEU
1	S	112	LEU
1	S	247	LEU
1	S	257	ARG
1	S	337	GLU
1	S	349	ILE
1	S	430	ASN
1	S	433	HIS
1	S	470	HIS
1	S	536	LEU

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Mol	Chain	Res	Type
1	S	558	LEU
1	T	99	ASP
1	T	111	LEU
1	T	112	LEU
1	T	247	LEU
1	T	257	ARG
1	T	337	GLU
1	T	349	ILE
1	T	430	ASN
1	T	433	HIS
1	T	470	HIS
1	T	536	LEU
1	T	558	LEU
1	U	99	ASP
1	U	111	LEU
1	U	112	LEU
1	U	247	LEU
1	U	257	ARG
1	U	337	GLU
1	U	349	ILE
1	U	430	ASN
1	U	433	HIS
1	U	470	HIS
1	U	536	LEU
1	U	558	LEU
1	V	99	ASP
1	V	111	LEU
1	V	112	LEU
1	V	247	LEU
1	V	257	ARG
1	V	337	GLU
1	V	349	ILE
1	V	430	ASN
1	V	433	HIS
1	V	470	HIS
1	V	536	LEU
1	V	558	LEU
1	W	99	ASP
1	W	111	LEU
1	W	112	LEU
1	W	247	LEU
1	W	257	ARG

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Mol	Chain	Res	Type
1	W	337	GLU
1	W	349	ILE
1	W	430	ASN
1	W	433	HIS
1	W	470	HIS
1	W	536	LEU
1	W	558	LEU
1	X	99	ASP
1	X	111	LEU
1	X	112	LEU
1	X	247	LEU
1	X	257	ARG
1	X	337	GLU
1	X	349	ILE
1	X	430	ASN
1	X	433	HIS
1	X	470	HIS
1	X	536	LEU
1	X	558	LEU
1	Y	99	ASP
1	Y	111	LEU
1	Y	112	LEU
1	Y	247	LEU
1	Y	257	ARG
1	Y	337	GLU
1	Y	349	ILE
1	Y	430	ASN
1	Y	433	HIS
1	Y	470	HIS
1	Y	536	LEU
1	Y	558	LEU
1	Z	99	ASP
1	Z	111	LEU
1	Z	112	LEU
1	Z	247	LEU
1	Z	257	ARG
1	Z	337	GLU
1	Z	349	ILE
1	Z	430	ASN
1	Z	433	HIS
1	Z	470	HIS
1	Z	536	LEU

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Mol	Chain	Res	Type
1	Z	558	LEU
1	0	99	ASP
1	0	111	LEU
1	0	112	LEU
1	0	247	LEU
1	0	257	ARG
1	0	337	GLU
1	0	349	ILE
1	0	430	ASN
1	0	433	HIS
1	0	470	HIS
1	0	536	LEU
1	0	558	LEU
1	1	99	ASP
1	1	111	LEU
1	1	112	LEU
1	1	247	LEU
1	1	257	ARG
1	1	337	GLU
1	1	349	ILE
1	1	430	ASN
1	1	433	HIS
1	1	470	HIS
1	1	536	LEU
1	1	558	LEU
1	2	99	ASP
1	2	111	LEU
1	2	112	LEU
1	2	247	LEU
1	2	257	ARG
1	2	337	GLU
1	2	349	ILE
1	2	430	ASN
1	2	433	HIS
1	2	470	HIS
1	2	536	LEU
1	2	558	LEU
1	3	99	ASP
1	3	111	LEU
1	3	112	LEU
1	3	247	LEU
1	3	257	ARG

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Mol	Chain	Res	Type
1	3	337	GLU
1	3	349	ILE
1	3	430	ASN
1	3	433	HIS
1	3	470	HIS
1	3	536	LEU
1	3	558	LEU
1	4	99	ASP
1	4	111	LEU
1	4	112	LEU
1	4	247	LEU
1	4	257	ARG
1	4	337	GLU
1	4	349	ILE
1	4	430	ASN
1	4	433	HIS
1	4	470	HIS
1	4	536	LEU
1	4	558	LEU
1	5	99	ASP
1	5	111	LEU
1	5	112	LEU
1	5	247	LEU
1	5	257	ARG
1	5	337	GLU
1	5	349	ILE
1	5	430	ASN
1	5	433	HIS
1	5	470	HIS
1	5	536	LEU
1	5	558	LEU
1	a	99	ASP
1	a	111	LEU
1	a	112	LEU
1	a	247	LEU
1	a	257	ARG
1	a	337	GLU
1	a	349	ILE
1	a	430	ASN
1	a	433	HIS
1	a	470	HIS
1	a	536	LEU

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Mol	Chain	Res	Type
1	a	558	LEU
1	b	99	ASP
1	b	111	LEU
1	b	112	LEU
1	b	247	LEU
1	b	257	ARG
1	b	337	GLU
1	b	349	ILE
1	b	430	ASN
1	b	433	HIS
1	b	470	HIS
1	b	536	LEU
1	b	558	LEU
1	c	99	ASP
1	c	111	LEU
1	c	112	LEU
1	c	247	LEU
1	c	257	ARG
1	c	337	GLU
1	c	349	ILE
1	c	430	ASN
1	c	433	HIS
1	c	470	HIS
1	c	536	LEU
1	c	558	LEU
1	d	99	ASP
1	d	111	LEU
1	d	112	LEU
1	d	247	LEU
1	d	257	ARG
1	d	337	GLU
1	d	349	ILE
1	d	430	ASN
1	d	433	HIS
1	d	470	HIS
1	d	536	LEU
1	d	558	LEU
1	e	99	ASP
1	e	111	LEU
1	e	112	LEU
1	e	247	LEU
1	e	257	ARG

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Mol	Chain	Res	Type
1	e	337	GLU
1	e	349	ILE
1	e	430	ASN
1	e	433	HIS
1	e	470	HIS
1	e	536	LEU
1	e	558	LEU
1	f	99	ASP
1	f	111	LEU
1	f	112	LEU
1	f	247	LEU
1	f	257	ARG
1	f	337	GLU
1	f	349	ILE
1	f	430	ASN
1	f	433	HIS
1	f	470	HIS
1	f	536	LEU
1	f	558	LEU
1	g	99	ASP
1	g	111	LEU
1	g	112	LEU
1	g	247	LEU
1	g	257	ARG
1	g	337	GLU
1	g	349	ILE
1	g	430	ASN
1	g	433	HIS
1	g	470	HIS
1	g	536	LEU
1	g	558	LEU
1	h	99	ASP
1	h	111	LEU
1	h	112	LEU
1	h	247	LEU
1	h	257	ARG
1	h	337	GLU
1	h	349	ILE
1	h	430	ASN
1	h	433	HIS
1	h	470	HIS
1	h	536	LEU

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Mol	Chain	Res	Type
1	h	558	LEU
1	i	99	ASP
1	i	111	LEU
1	i	112	LEU
1	i	247	LEU
1	i	257	ARG
1	i	337	GLU
1	i	349	ILE
1	i	430	ASN
1	i	433	HIS
1	i	470	HIS
1	i	536	LEU
1	i	558	LEU
1	j	99	ASP
1	j	111	LEU
1	j	112	LEU
1	j	247	LEU
1	j	257	ARG
1	j	337	GLU
1	j	349	ILE
1	j	430	ASN
1	j	433	HIS
1	j	470	HIS
1	j	536	LEU
1	j	558	LEU
1	k	99	ASP
1	k	111	LEU
1	k	112	LEU
1	k	247	LEU
1	k	257	ARG
1	k	337	GLU
1	k	349	ILE
1	k	430	ASN
1	k	433	HIS
1	k	470	HIS
1	k	536	LEU
1	k	558	LEU
1	l	99	ASP
1	l	111	LEU
1	l	112	LEU
1	l	247	LEU
1	l	257	ARG

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Mol	Chain	Res	Type
1	l	337	GLU
1	l	349	ILE
1	l	430	ASN
1	l	433	HIS
1	l	470	HIS
1	l	536	LEU
1	l	558	LEU
1	m	99	ASP
1	m	111	LEU
1	m	112	LEU
1	m	247	LEU
1	m	257	ARG
1	m	337	GLU
1	m	349	ILE
1	m	430	ASN
1	m	433	HIS
1	m	470	HIS
1	m	536	LEU
1	m	558	LEU
1	n	99	ASP
1	n	111	LEU
1	n	112	LEU
1	n	247	LEU
1	n	257	ARG
1	n	337	GLU
1	n	349	ILE
1	n	430	ASN
1	n	433	HIS
1	n	470	HIS
1	n	536	LEU
1	n	558	LEU
1	o	99	ASP
1	o	111	LEU
1	o	112	LEU
1	o	247	LEU
1	o	257	ARG
1	o	337	GLU
1	o	349	ILE
1	o	430	ASN
1	o	433	HIS
1	o	470	HIS
1	o	536	LEU

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Mol	Chain	Res	Type
1	o	558	LEU
1	p	99	ASP
1	p	111	LEU
1	p	112	LEU
1	p	247	LEU
1	p	257	ARG
1	p	337	GLU
1	p	349	ILE
1	p	430	ASN
1	p	433	HIS
1	p	470	HIS
1	p	536	LEU
1	p	558	LEU
1	q	99	ASP
1	q	111	LEU
1	q	112	LEU
1	q	247	LEU
1	q	257	ARG
1	q	337	GLU
1	q	349	ILE
1	q	430	ASN
1	q	433	HIS
1	q	470	HIS
1	q	536	LEU
1	q	558	LEU
1	r	99	ASP
1	r	111	LEU
1	r	112	LEU
1	r	247	LEU
1	r	257	ARG
1	r	337	GLU
1	r	349	ILE
1	r	430	ASN
1	r	433	HIS
1	r	470	HIS
1	r	536	LEU
1	r	558	LEU
1	s	99	ASP
1	s	111	LEU
1	s	112	LEU
1	s	247	LEU
1	s	257	ARG

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Mol	Chain	Res	Type
1	s	337	GLU
1	s	349	ILE
1	s	430	ASN
1	s	433	HIS
1	s	470	HIS
1	s	536	LEU
1	s	558	LEU
1	t	99	ASP
1	t	111	LEU
1	t	112	LEU
1	t	247	LEU
1	t	257	ARG
1	t	337	GLU
1	t	349	ILE
1	t	430	ASN
1	t	433	HIS
1	t	470	HIS
1	t	536	LEU
1	t	558	LEU
1	u	99	ASP
1	u	111	LEU
1	u	112	LEU
1	u	247	LEU
1	u	257	ARG
1	u	337	GLU
1	u	349	ILE
1	u	430	ASN
1	u	433	HIS
1	u	470	HIS
1	u	536	LEU
1	u	558	LEU
1	v	99	ASP
1	v	111	LEU
1	v	112	LEU
1	v	247	LEU
1	v	257	ARG
1	v	337	GLU
1	v	349	ILE
1	v	430	ASN
1	v	433	HIS
1	v	470	HIS
1	v	536	LEU

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Mol	Chain	Res	Type
1	v	558	LEU
1	w	99	ASP
1	w	111	LEU
1	w	112	LEU
1	w	247	LEU
1	w	257	ARG
1	w	337	GLU
1	w	349	ILE
1	w	430	ASN
1	w	433	HIS
1	w	470	HIS
1	w	536	LEU
1	w	558	LEU
1	x	99	ASP
1	x	111	LEU
1	x	112	LEU
1	x	247	LEU
1	x	257	ARG
1	x	337	GLU
1	x	349	ILE
1	x	430	ASN
1	x	433	HIS
1	x	470	HIS
1	x	536	LEU
1	x	558	LEU
1	y	99	ASP
1	y	111	LEU
1	y	112	LEU
1	y	247	LEU
1	y	257	ARG
1	y	337	GLU
1	y	349	ILE
1	y	430	ASN
1	y	433	HIS
1	y	470	HIS
1	y	536	LEU
1	y	558	LEU
1	z	99	ASP
1	z	111	LEU
1	z	112	LEU
1	z	247	LEU
1	z	257	ARG

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Mol	Chain	Res	Type
1	z	337	GLU
1	z	349	ILE
1	z	430	ASN
1	z	433	HIS
1	z	470	HIS
1	z	536	LEU
1	z	558	LEU
1	6	99	ASP
1	6	111	LEU
1	6	112	LEU
1	6	247	LEU
1	6	257	ARG
1	6	337	GLU
1	6	349	ILE
1	6	430	ASN
1	6	433	HIS
1	6	470	HIS
1	6	536	LEU
1	6	558	LEU
1	7	99	ASP
1	7	111	LEU
1	7	112	LEU
1	7	247	LEU
1	7	257	ARG
1	7	337	GLU
1	7	349	ILE
1	7	430	ASN
1	7	433	HIS
1	7	470	HIS
1	7	536	LEU
1	7	558	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1178) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	36	HIS
1	A	59	HIS
1	A	98	ASN
1	A	113	HIS
1	A	127	GLN
1	A	147	ASN
1	A	165	GLN

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Mol	Chain	Res	Type
1	A	182	ASN
1	A	190	ASN
1	A	212	HIS
1	A	281	GLN
1	A	285	HIS
1	A	290	HIS
1	A	328	ASN
1	A	330	HIS
1	A	371	GLN
1	A	383	HIS
1	A	404	GLN
1	A	411	ASN
1	A	463	HIS
1	A	541	HIS
1	B	36	HIS
1	B	42	ASN
1	B	59	HIS
1	B	98	ASN
1	B	113	HIS
1	B	127	GLN
1	B	165	GLN
1	B	182	ASN
1	B	190	ASN
1	B	212	HIS
1	B	281	GLN
1	B	285	HIS
1	B	290	HIS
1	B	328	ASN
1	B	330	HIS
1	B	357	GLN
1	B	371	GLN
1	B	383	HIS
1	B	404	GLN
1	B	411	ASN
1	B	541	HIS
1	C	36	HIS
1	C	59	HIS
1	C	98	ASN
1	C	113	HIS
1	C	127	GLN
1	C	165	GLN
1	C	182	ASN

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Mol	Chain	Res	Type
1	C	190	ASN
1	C	212	HIS
1	C	281	GLN
1	C	290	HIS
1	C	328	ASN
1	C	330	HIS
1	C	371	GLN
1	C	404	GLN
1	C	411	ASN
1	C	541	HIS
1	D	36	HIS
1	D	59	HIS
1	D	98	ASN
1	D	113	HIS
1	D	127	GLN
1	D	165	GLN
1	D	182	ASN
1	D	190	ASN
1	D	212	HIS
1	D	281	GLN
1	D	290	HIS
1	D	328	ASN
1	D	330	HIS
1	D	371	GLN
1	D	383	HIS
1	D	404	GLN
1	D	411	ASN
1	D	430	ASN
1	D	541	HIS
1	E	36	HIS
1	E	59	HIS
1	E	98	ASN
1	E	113	HIS
1	E	127	GLN
1	E	165	GLN
1	E	182	ASN
1	E	190	ASN
1	E	212	HIS
1	E	281	GLN
1	E	290	HIS
1	E	328	ASN
1	E	330	HIS

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Mol	Chain	Res	Type
1	E	371	GLN
1	E	383	HIS
1	E	404	GLN
1	E	411	ASN
1	E	430	ASN
1	E	541	HIS
1	F	36	HIS
1	F	42	ASN
1	F	59	HIS
1	F	98	ASN
1	F	113	HIS
1	F	127	GLN
1	F	165	GLN
1	F	182	ASN
1	F	190	ASN
1	F	212	HIS
1	F	281	GLN
1	F	285	HIS
1	F	290	HIS
1	F	328	ASN
1	F	330	HIS
1	F	371	GLN
1	F	383	HIS
1	F	404	GLN
1	F	411	ASN
1	F	430	ASN
1	F	541	HIS
1	G	36	HIS
1	G	59	HIS
1	G	98	ASN
1	G	113	HIS
1	G	127	GLN
1	G	165	GLN
1	G	182	ASN
1	G	190	ASN
1	G	212	HIS
1	G	281	GLN
1	G	290	HIS
1	G	328	ASN
1	G	330	HIS
1	G	371	GLN
1	G	383	HIS

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Mol	Chain	Res	Type
1	G	404	GLN
1	G	411	ASN
1	G	430	ASN
1	G	541	HIS
1	H	36	HIS
1	H	59	HIS
1	H	98	ASN
1	H	113	HIS
1	H	127	GLN
1	H	165	GLN
1	H	182	ASN
1	H	190	ASN
1	H	212	HIS
1	H	281	GLN
1	H	285	HIS
1	H	290	HIS
1	H	328	ASN
1	H	330	HIS
1	H	371	GLN
1	H	383	HIS
1	H	404	GLN
1	H	411	ASN
1	H	430	ASN
1	H	541	HIS
1	I	36	HIS
1	I	59	HIS
1	I	98	ASN
1	I	113	HIS
1	I	127	GLN
1	I	165	GLN
1	I	182	ASN
1	I	190	ASN
1	I	212	HIS
1	I	281	GLN
1	I	290	HIS
1	I	328	ASN
1	I	371	GLN
1	I	383	HIS
1	I	404	GLN
1	I	411	ASN
1	I	541	HIS
1	J	36	HIS

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Mol	Chain	Res	Type
1	J	42	ASN
1	J	59	HIS
1	J	98	ASN
1	J	102	HIS
1	J	113	HIS
1	J	127	GLN
1	J	165	GLN
1	J	182	ASN
1	J	190	ASN
1	J	212	HIS
1	J	281	GLN
1	J	290	HIS
1	J	328	ASN
1	J	330	HIS
1	J	371	GLN
1	J	383	HIS
1	J	404	GLN
1	J	411	ASN
1	J	541	HIS
1	K	36	HIS
1	K	59	HIS
1	K	98	ASN
1	K	113	HIS
1	K	127	GLN
1	K	165	GLN
1	K	182	ASN
1	K	190	ASN
1	K	212	HIS
1	K	281	GLN
1	K	285	HIS
1	K	290	HIS
1	K	328	ASN
1	K	330	HIS
1	K	371	GLN
1	K	383	HIS
1	K	404	GLN
1	K	411	ASN
1	K	430	ASN
1	K	541	HIS
1	L	36	HIS
1	L	59	HIS
1	L	98	ASN

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Mol	Chain	Res	Type
1	L	113	HIS
1	L	127	GLN
1	L	165	GLN
1	L	182	ASN
1	L	190	ASN
1	L	212	HIS
1	L	281	GLN
1	L	285	HIS
1	L	290	HIS
1	L	328	ASN
1	L	330	HIS
1	L	371	GLN
1	L	383	HIS
1	L	404	GLN
1	L	411	ASN
1	L	430	ASN
1	L	541	HIS
1	M	36	HIS
1	M	42	ASN
1	M	59	HIS
1	M	98	ASN
1	M	113	HIS
1	M	127	GLN
1	M	165	GLN
1	M	182	ASN
1	M	190	ASN
1	M	212	HIS
1	M	281	GLN
1	M	290	HIS
1	M	328	ASN
1	M	330	HIS
1	M	371	GLN
1	M	398	ASN
1	M	404	GLN
1	M	411	ASN
1	M	430	ASN
1	M	541	HIS
1	N	36	HIS
1	N	59	HIS
1	N	98	ASN
1	N	113	HIS
1	N	127	GLN

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Mol	Chain	Res	Type
1	N	165	GLN
1	N	182	ASN
1	N	190	ASN
1	N	212	HIS
1	N	281	GLN
1	N	290	HIS
1	N	328	ASN
1	N	330	HIS
1	N	371	GLN
1	N	383	HIS
1	N	404	GLN
1	N	411	ASN
1	N	541	HIS
1	O	36	HIS
1	O	59	HIS
1	O	98	ASN
1	O	113	HIS
1	O	127	GLN
1	O	165	GLN
1	O	182	ASN
1	O	190	ASN
1	O	212	HIS
1	O	281	GLN
1	O	290	HIS
1	O	328	ASN
1	O	330	HIS
1	O	371	GLN
1	O	383	HIS
1	O	404	GLN
1	O	411	ASN
1	O	430	ASN
1	O	541	HIS
1	P	36	HIS
1	P	42	ASN
1	P	59	HIS
1	P	98	ASN
1	P	113	HIS
1	P	127	GLN
1	P	165	GLN
1	P	182	ASN
1	P	190	ASN
1	P	212	HIS

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Mol	Chain	Res	Type
1	P	281	GLN
1	P	285	HIS
1	P	290	HIS
1	P	328	ASN
1	P	330	HIS
1	P	371	GLN
1	P	383	HIS
1	P	404	GLN
1	P	411	ASN
1	P	430	ASN
1	P	541	HIS
1	Q	36	HIS
1	Q	42	ASN
1	Q	59	HIS
1	Q	98	ASN
1	Q	113	HIS
1	Q	127	GLN
1	Q	165	GLN
1	Q	182	ASN
1	Q	190	ASN
1	Q	212	HIS
1	Q	281	GLN
1	Q	290	HIS
1	Q	328	ASN
1	Q	330	HIS
1	Q	371	GLN
1	Q	383	HIS
1	Q	398	ASN
1	Q	404	GLN
1	Q	411	ASN
1	Q	541	HIS
1	R	36	HIS
1	R	59	HIS
1	R	98	ASN
1	R	113	HIS
1	R	127	GLN
1	R	165	GLN
1	R	182	ASN
1	R	190	ASN
1	R	212	HIS
1	R	281	GLN
1	R	285	HIS

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Mol	Chain	Res	Type
1	R	290	HIS
1	R	328	ASN
1	R	330	HIS
1	R	371	GLN
1	R	383	HIS
1	R	398	ASN
1	R	404	GLN
1	R	411	ASN
1	R	541	HIS
1	S	36	HIS
1	S	42	ASN
1	S	59	HIS
1	S	98	ASN
1	S	113	HIS
1	S	127	GLN
1	S	147	ASN
1	S	165	GLN
1	S	182	ASN
1	S	190	ASN
1	S	212	HIS
1	S	281	GLN
1	S	290	HIS
1	S	328	ASN
1	S	330	HIS
1	S	371	GLN
1	S	383	HIS
1	S	404	GLN
1	S	411	ASN
1	S	541	HIS
1	T	36	HIS
1	T	42	ASN
1	T	59	HIS
1	T	98	ASN
1	T	113	HIS
1	T	127	GLN
1	T	165	GLN
1	T	182	ASN
1	T	190	ASN
1	T	212	HIS
1	T	281	GLN
1	T	285	HIS
1	T	290	HIS

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Mol	Chain	Res	Type
1	T	328	ASN
1	T	371	GLN
1	T	383	HIS
1	T	404	GLN
1	T	411	ASN
1	T	430	ASN
1	T	541	HIS
1	U	36	HIS
1	U	59	HIS
1	U	98	ASN
1	U	113	HIS
1	U	127	GLN
1	U	165	GLN
1	U	182	ASN
1	U	190	ASN
1	U	212	HIS
1	U	281	GLN
1	U	285	HIS
1	U	290	HIS
1	U	328	ASN
1	U	330	HIS
1	U	371	GLN
1	U	383	HIS
1	U	404	GLN
1	U	411	ASN
1	U	541	HIS
1	V	36	HIS
1	V	42	ASN
1	V	59	HIS
1	V	98	ASN
1	V	113	HIS
1	V	127	GLN
1	V	165	GLN
1	V	182	ASN
1	V	190	ASN
1	V	212	HIS
1	V	281	GLN
1	V	285	HIS
1	V	290	HIS
1	V	328	ASN
1	V	330	HIS
1	V	371	GLN

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Mol	Chain	Res	Type
1	V	383	HIS
1	V	398	ASN
1	V	404	GLN
1	V	411	ASN
1	V	541	HIS
1	W	36	HIS
1	W	42	ASN
1	W	59	HIS
1	W	98	ASN
1	W	113	HIS
1	W	127	GLN
1	W	165	GLN
1	W	182	ASN
1	W	190	ASN
1	W	212	HIS
1	W	281	GLN
1	W	290	HIS
1	W	328	ASN
1	W	330	HIS
1	W	371	GLN
1	W	383	HIS
1	W	404	GLN
1	W	411	ASN
1	W	541	HIS
1	X	36	HIS
1	X	42	ASN
1	X	59	HIS
1	X	98	ASN
1	X	113	HIS
1	X	127	GLN
1	X	165	GLN
1	X	182	ASN
1	X	190	ASN
1	X	212	HIS
1	X	281	GLN
1	X	290	HIS
1	X	328	ASN
1	X	330	HIS
1	X	371	GLN
1	X	383	HIS
1	X	404	GLN
1	X	411	ASN

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Mol	Chain	Res	Type
1	X	541	HIS
1	Y	36	HIS
1	Y	42	ASN
1	Y	59	HIS
1	Y	98	ASN
1	Y	127	GLN
1	Y	165	GLN
1	Y	182	ASN
1	Y	190	ASN
1	Y	212	HIS
1	Y	281	GLN
1	Y	285	HIS
1	Y	290	HIS
1	Y	328	ASN
1	Y	330	HIS
1	Y	371	GLN
1	Y	383	HIS
1	Y	404	GLN
1	Y	411	ASN
1	Y	430	ASN
1	Y	541	HIS
1	Z	36	HIS
1	Z	42	ASN
1	Z	59	HIS
1	Z	98	ASN
1	Z	127	GLN
1	Z	165	GLN
1	Z	182	ASN
1	Z	190	ASN
1	Z	212	HIS
1	Z	281	GLN
1	Z	285	HIS
1	Z	290	HIS
1	Z	328	ASN
1	Z	330	HIS
1	Z	371	GLN
1	Z	383	HIS
1	Z	404	GLN
1	Z	411	ASN
1	Z	541	HIS
1	0	36	HIS
1	0	42	ASN

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Mol	Chain	Res	Type
1	0	59	HIS
1	0	98	ASN
1	0	113	HIS
1	0	127	GLN
1	0	165	GLN
1	0	182	ASN
1	0	190	ASN
1	0	212	HIS
1	0	281	GLN
1	0	290	HIS
1	0	328	ASN
1	0	330	HIS
1	0	371	GLN
1	0	383	HIS
1	0	404	GLN
1	0	411	ASN
1	0	541	HIS
1	1	36	HIS
1	1	42	ASN
1	1	59	HIS
1	1	98	ASN
1	1	113	HIS
1	1	127	GLN
1	1	165	GLN
1	1	182	ASN
1	1	190	ASN
1	1	212	HIS
1	1	281	GLN
1	1	285	HIS
1	1	290	HIS
1	1	328	ASN
1	1	330	HIS
1	1	371	GLN
1	1	383	HIS
1	1	398	ASN
1	1	404	GLN
1	1	411	ASN
1	1	541	HIS
1	2	36	HIS
1	2	42	ASN
1	2	59	HIS
1	2	98	ASN

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Mol	Chain	Res	Type
1	2	113	HIS
1	2	127	GLN
1	2	165	GLN
1	2	182	ASN
1	2	190	ASN
1	2	212	HIS
1	2	281	GLN
1	2	285	HIS
1	2	290	HIS
1	2	328	ASN
1	2	330	HIS
1	2	371	GLN
1	2	383	HIS
1	2	404	GLN
1	2	411	ASN
1	2	430	ASN
1	2	541	HIS
1	3	36	HIS
1	3	59	HIS
1	3	98	ASN
1	3	127	GLN
1	3	165	GLN
1	3	182	ASN
1	3	190	ASN
1	3	212	HIS
1	3	281	GLN
1	3	290	HIS
1	3	328	ASN
1	3	330	HIS
1	3	371	GLN
1	3	383	HIS
1	3	404	GLN
1	3	411	ASN
1	3	430	ASN
1	3	541	HIS
1	4	36	HIS
1	4	42	ASN
1	4	59	HIS
1	4	98	ASN
1	4	113	HIS
1	4	127	GLN
1	4	165	GLN

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Mol	Chain	Res	Type
1	4	182	ASN
1	4	190	ASN
1	4	212	HIS
1	4	281	GLN
1	4	285	HIS
1	4	290	HIS
1	4	328	ASN
1	4	330	HIS
1	4	371	GLN
1	4	383	HIS
1	4	404	GLN
1	4	411	ASN
1	4	430	ASN
1	4	541	HIS
1	5	36	HIS
1	5	42	ASN
1	5	59	HIS
1	5	98	ASN
1	5	113	HIS
1	5	127	GLN
1	5	165	GLN
1	5	182	ASN
1	5	190	ASN
1	5	212	HIS
1	5	281	GLN
1	5	290	HIS
1	5	328	ASN
1	5	330	HIS
1	5	371	GLN
1	5	383	HIS
1	5	404	GLN
1	5	411	ASN
1	5	541	HIS
1	a	36	HIS
1	a	59	HIS
1	a	98	ASN
1	a	113	HIS
1	a	127	GLN
1	a	165	GLN
1	a	182	ASN
1	a	190	ASN
1	a	212	HIS

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Mol	Chain	Res	Type
1	a	281	GLN
1	a	290	HIS
1	a	328	ASN
1	a	330	HIS
1	a	357	GLN
1	a	371	GLN
1	a	383	HIS
1	a	404	GLN
1	a	411	ASN
1	a	541	HIS
1	b	36	HIS
1	b	59	HIS
1	b	98	ASN
1	b	113	HIS
1	b	127	GLN
1	b	165	GLN
1	b	182	ASN
1	b	190	ASN
1	b	212	HIS
1	b	281	GLN
1	b	285	HIS
1	b	290	HIS
1	b	328	ASN
1	b	330	HIS
1	b	371	GLN
1	b	383	HIS
1	b	404	GLN
1	b	411	ASN
1	b	430	ASN
1	b	541	HIS
1	c	36	HIS
1	c	42	ASN
1	c	59	HIS
1	c	98	ASN
1	c	113	HIS
1	c	127	GLN
1	c	165	GLN
1	c	182	ASN
1	c	190	ASN
1	c	212	HIS
1	c	281	GLN
1	c	285	HIS

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Mol	Chain	Res	Type
1	c	290	HIS
1	c	328	ASN
1	c	330	HIS
1	c	371	GLN
1	c	383	HIS
1	c	404	GLN
1	c	411	ASN
1	c	541	HIS
1	d	36	HIS
1	d	42	ASN
1	d	59	HIS
1	d	98	ASN
1	d	113	HIS
1	d	127	GLN
1	d	165	GLN
1	d	182	ASN
1	d	190	ASN
1	d	212	HIS
1	d	281	GLN
1	d	290	HIS
1	d	328	ASN
1	d	330	HIS
1	d	371	GLN
1	d	383	HIS
1	d	398	ASN
1	d	404	GLN
1	d	411	ASN
1	d	413	HIS
1	d	430	ASN
1	d	541	HIS
1	e	36	HIS
1	e	59	HIS
1	e	98	ASN
1	e	113	HIS
1	e	127	GLN
1	e	165	GLN
1	e	182	ASN
1	e	190	ASN
1	e	212	HIS
1	e	281	GLN
1	e	290	HIS
1	e	328	ASN

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Mol	Chain	Res	Type
1	e	330	HIS
1	e	371	GLN
1	e	404	GLN
1	e	411	ASN
1	e	413	HIS
1	e	541	HIS
1	f	36	HIS
1	f	42	ASN
1	f	59	HIS
1	f	98	ASN
1	f	113	HIS
1	f	127	GLN
1	f	165	GLN
1	f	182	ASN
1	f	190	ASN
1	f	212	HIS
1	f	281	GLN
1	f	285	HIS
1	f	290	HIS
1	f	328	ASN
1	f	330	HIS
1	f	371	GLN
1	f	383	HIS
1	f	404	GLN
1	f	411	ASN
1	f	430	ASN
1	f	541	HIS
1	g	36	HIS
1	g	59	HIS
1	g	98	ASN
1	g	113	HIS
1	g	127	GLN
1	g	165	GLN
1	g	182	ASN
1	g	190	ASN
1	g	212	HIS
1	g	281	GLN
1	g	290	HIS
1	g	328	ASN
1	g	330	HIS
1	g	371	GLN
1	g	383	HIS

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Mol	Chain	Res	Type
1	g	404	GLN
1	g	411	ASN
1	g	430	ASN
1	g	541	HIS
1	h	36	HIS
1	h	59	HIS
1	h	98	ASN
1	h	127	GLN
1	h	165	GLN
1	h	182	ASN
1	h	190	ASN
1	h	212	HIS
1	h	281	GLN
1	h	285	HIS
1	h	290	HIS
1	h	328	ASN
1	h	330	HIS
1	h	371	GLN
1	h	383	HIS
1	h	404	GLN
1	h	411	ASN
1	h	541	HIS
1	i	36	HIS
1	i	42	ASN
1	i	59	HIS
1	i	98	ASN
1	i	113	HIS
1	i	127	GLN
1	i	165	GLN
1	i	182	ASN
1	i	190	ASN
1	i	212	HIS
1	i	281	GLN
1	i	285	HIS
1	i	290	HIS
1	i	328	ASN
1	i	330	HIS
1	i	371	GLN
1	i	383	HIS
1	i	398	ASN
1	i	404	GLN
1	i	411	ASN

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Mol	Chain	Res	Type
1	i	430	ASN
1	i	541	HIS
1	j	36	HIS
1	j	59	HIS
1	j	98	ASN
1	j	127	GLN
1	j	165	GLN
1	j	182	ASN
1	j	190	ASN
1	j	212	HIS
1	j	281	GLN
1	j	290	HIS
1	j	328	ASN
1	j	330	HIS
1	j	371	GLN
1	j	383	HIS
1	j	398	ASN
1	j	404	GLN
1	j	411	ASN
1	j	413	HIS
1	j	430	ASN
1	j	541	HIS
1	k	36	HIS
1	k	59	HIS
1	k	98	ASN
1	k	113	HIS
1	k	127	GLN
1	k	165	GLN
1	k	182	ASN
1	k	190	ASN
1	k	212	HIS
1	k	281	GLN
1	k	285	HIS
1	k	290	HIS
1	k	328	ASN
1	k	330	HIS
1	k	371	GLN
1	k	383	HIS
1	k	404	GLN
1	k	411	ASN
1	k	430	ASN
1	k	541	HIS

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Mol	Chain	Res	Type
1	l	36	HIS
1	l	59	HIS
1	l	98	ASN
1	l	113	HIS
1	l	127	GLN
1	l	165	GLN
1	l	182	ASN
1	l	212	HIS
1	l	281	GLN
1	l	290	HIS
1	l	328	ASN
1	l	330	HIS
1	l	371	GLN
1	l	383	HIS
1	l	404	GLN
1	l	411	ASN
1	l	541	HIS
1	m	36	HIS
1	m	59	HIS
1	m	98	ASN
1	m	113	HIS
1	m	127	GLN
1	m	165	GLN
1	m	182	ASN
1	m	190	ASN
1	m	212	HIS
1	m	281	GLN
1	m	285	HIS
1	m	290	HIS
1	m	328	ASN
1	m	330	HIS
1	m	371	GLN
1	m	383	HIS
1	m	404	GLN
1	m	411	ASN
1	m	541	HIS
1	n	36	HIS
1	n	42	ASN
1	n	59	HIS
1	n	98	ASN
1	n	113	HIS
1	n	127	GLN

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Mol	Chain	Res	Type
1	n	165	GLN
1	n	182	ASN
1	n	190	ASN
1	n	212	HIS
1	n	281	GLN
1	n	290	HIS
1	n	328	ASN
1	n	371	GLN
1	n	383	HIS
1	n	398	ASN
1	n	404	GLN
1	n	411	ASN
1	n	541	HIS
1	o	36	HIS
1	o	42	ASN
1	o	59	HIS
1	o	98	ASN
1	o	113	HIS
1	o	127	GLN
1	o	165	GLN
1	o	182	ASN
1	o	190	ASN
1	o	212	HIS
1	o	281	GLN
1	o	285	HIS
1	o	290	HIS
1	o	328	ASN
1	o	330	HIS
1	o	371	GLN
1	o	383	HIS
1	o	404	GLN
1	o	411	ASN
1	o	430	ASN
1	o	541	HIS
1	p	36	HIS
1	p	59	HIS
1	p	98	ASN
1	p	113	HIS
1	p	127	GLN
1	p	165	GLN
1	p	182	ASN
1	p	190	ASN

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Mol	Chain	Res	Type
1	p	212	HIS
1	p	281	GLN
1	p	285	HIS
1	p	290	HIS
1	p	328	ASN
1	p	330	HIS
1	p	371	GLN
1	p	383	HIS
1	p	404	GLN
1	p	411	ASN
1	p	430	ASN
1	p	541	HIS
1	q	36	HIS
1	q	59	HIS
1	q	98	ASN
1	q	113	HIS
1	q	127	GLN
1	q	165	GLN
1	q	182	ASN
1	q	190	ASN
1	q	212	HIS
1	q	281	GLN
1	q	290	HIS
1	q	328	ASN
1	q	330	HIS
1	q	371	GLN
1	q	383	HIS
1	q	404	GLN
1	q	411	ASN
1	q	430	ASN
1	q	541	HIS
1	r	36	HIS
1	r	59	HIS
1	r	98	ASN
1	r	113	HIS
1	r	127	GLN
1	r	165	GLN
1	r	182	ASN
1	r	190	ASN
1	r	212	HIS
1	r	281	GLN
1	r	290	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	r	328	ASN
1	r	330	HIS
1	r	371	GLN
1	r	383	HIS
1	r	404	GLN
1	r	411	ASN
1	r	541	HIS
1	s	36	HIS
1	s	42	ASN
1	s	59	HIS
1	s	98	ASN
1	s	113	HIS
1	s	127	GLN
1	s	165	GLN
1	s	182	ASN
1	s	190	ASN
1	s	212	HIS
1	s	281	GLN
1	s	285	HIS
1	s	290	HIS
1	s	328	ASN
1	s	330	HIS
1	s	371	GLN
1	s	404	GLN
1	s	411	ASN
1	s	541	HIS
1	t	36	HIS
1	t	42	ASN
1	t	59	HIS
1	t	98	ASN
1	t	113	HIS
1	t	127	GLN
1	t	165	GLN
1	t	182	ASN
1	t	190	ASN
1	t	212	HIS
1	t	281	GLN
1	t	290	HIS
1	t	328	ASN
1	t	330	HIS
1	t	371	GLN
1	t	383	HIS

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Mol	Chain	Res	Type
1	t	404	GLN
1	t	411	ASN
1	t	541	HIS
1	u	36	HIS
1	u	59	HIS
1	u	98	ASN
1	u	113	HIS
1	u	127	GLN
1	u	165	GLN
1	u	182	ASN
1	u	212	HIS
1	u	281	GLN
1	u	285	HIS
1	u	290	HIS
1	u	328	ASN
1	u	330	HIS
1	u	371	GLN
1	u	383	HIS
1	u	404	GLN
1	u	411	ASN
1	u	430	ASN
1	u	541	HIS
1	v	36	HIS
1	v	59	HIS
1	v	98	ASN
1	v	113	HIS
1	v	127	GLN
1	v	165	GLN
1	v	182	ASN
1	v	190	ASN
1	v	212	HIS
1	v	281	GLN
1	v	290	HIS
1	v	328	ASN
1	v	330	HIS
1	v	371	GLN
1	v	383	HIS
1	v	404	GLN
1	v	411	ASN
1	v	430	ASN
1	v	541	HIS
1	w	36	HIS

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Mol	Chain	Res	Type
1	w	42	ASN
1	w	59	HIS
1	w	98	ASN
1	w	113	HIS
1	w	127	GLN
1	w	165	GLN
1	w	182	ASN
1	w	190	ASN
1	w	212	HIS
1	w	281	GLN
1	w	290	HIS
1	w	328	ASN
1	w	371	GLN
1	w	383	HIS
1	w	404	GLN
1	w	411	ASN
1	w	541	HIS
1	x	36	HIS
1	x	59	HIS
1	x	98	ASN
1	x	113	HIS
1	x	127	GLN
1	x	165	GLN
1	x	182	ASN
1	x	190	ASN
1	x	212	HIS
1	x	281	GLN
1	x	285	HIS
1	x	290	HIS
1	x	328	ASN
1	x	330	HIS
1	x	371	GLN
1	x	383	HIS
1	x	404	GLN
1	x	411	ASN
1	x	430	ASN
1	x	541	HIS
1	y	36	HIS
1	y	59	HIS
1	y	98	ASN
1	y	113	HIS
1	y	127	GLN

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Mol	Chain	Res	Type
1	y	147	ASN
1	y	165	GLN
1	y	182	ASN
1	y	190	ASN
1	y	212	HIS
1	y	281	GLN
1	y	285	HIS
1	y	290	HIS
1	y	328	ASN
1	y	330	HIS
1	y	371	GLN
1	y	383	HIS
1	y	398	ASN
1	y	404	GLN
1	y	411	ASN
1	y	541	HIS
1	z	36	HIS
1	z	42	ASN
1	z	59	HIS
1	z	98	ASN
1	z	113	HIS
1	z	127	GLN
1	z	147	ASN
1	z	165	GLN
1	z	182	ASN
1	z	190	ASN
1	z	212	HIS
1	z	281	GLN
1	z	285	HIS
1	z	290	HIS
1	z	328	ASN
1	z	330	HIS
1	z	357	GLN
1	z	371	GLN
1	z	383	HIS
1	z	404	GLN
1	z	411	ASN
1	z	541	HIS
1	6	36	HIS
1	6	42	ASN
1	6	59	HIS
1	6	98	ASN

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Mol	Chain	Res	Type
1	6	113	HIS
1	6	127	GLN
1	6	165	GLN
1	6	182	ASN
1	6	190	ASN
1	6	212	HIS
1	6	281	GLN
1	6	285	HIS
1	6	290	HIS
1	6	328	ASN
1	6	330	HIS
1	6	371	GLN
1	6	383	HIS
1	6	404	GLN
1	6	411	ASN
1	6	541	HIS
1	7	36	HIS
1	7	42	ASN
1	7	59	HIS
1	7	98	ASN
1	7	113	HIS
1	7	127	GLN
1	7	165	GLN
1	7	182	ASN
1	7	190	ASN
1	7	212	HIS
1	7	281	GLN
1	7	285	HIS
1	7	290	HIS
1	7	328	ASN
1	7	330	HIS
1	7	371	GLN
1	7	383	HIS
1	7	398	ASN
1	7	404	GLN
1	7	411	ASN
1	7	541	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

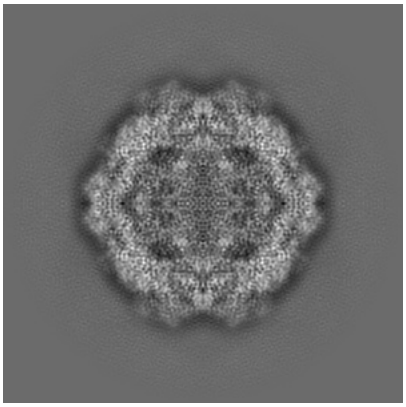
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-7301. These allow visual inspection of the internal detail of the map and identification of artifacts.

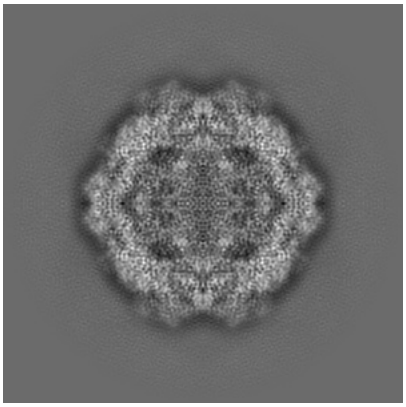
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

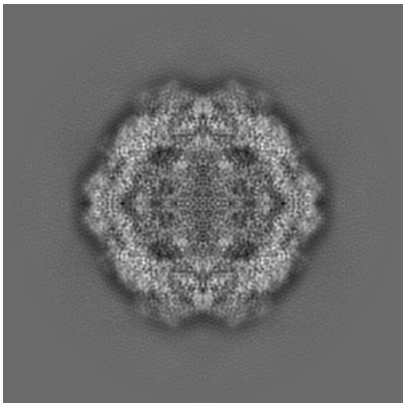
6.1.1 Primary map



X



Y

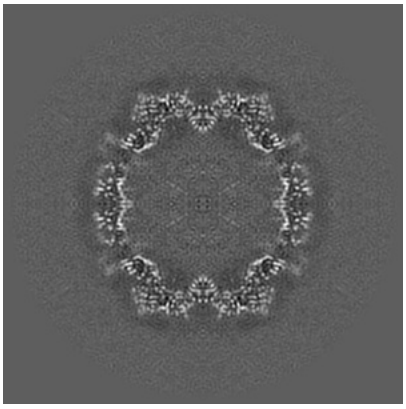


Z

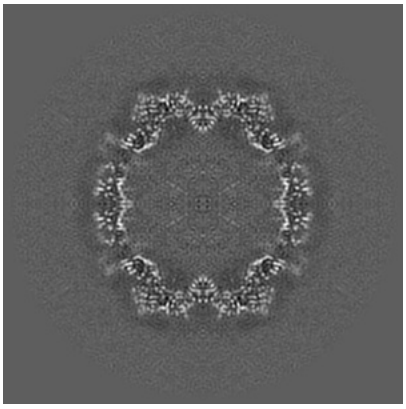
The images above show the map projected in three orthogonal directions.

6.2 Central slices

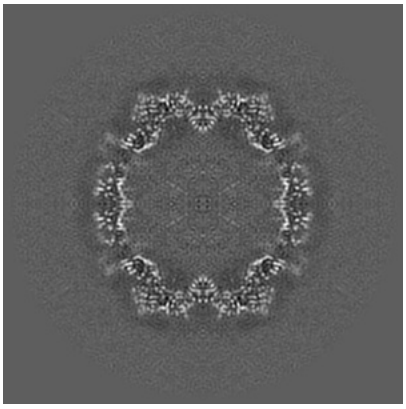
6.2.1 Primary map



X Index: 179



Y Index: 179

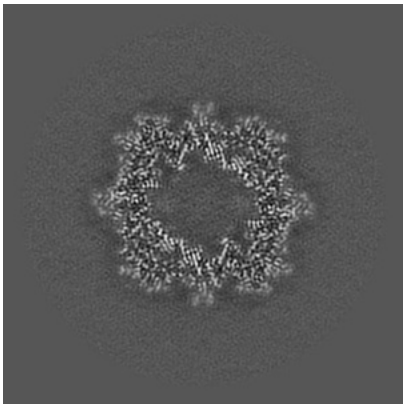


Z Index: 179

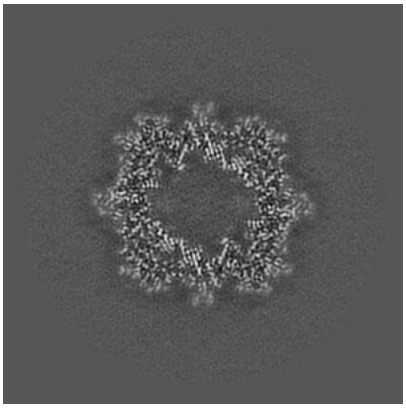
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

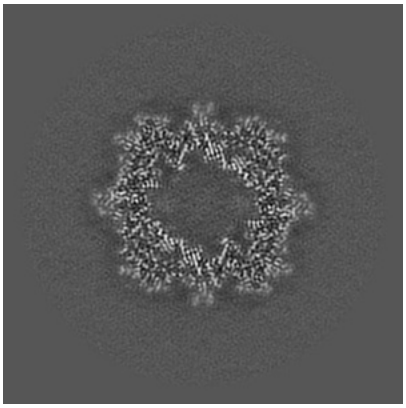
6.3.1 Primary map



X Index: 123



Y Index: 123

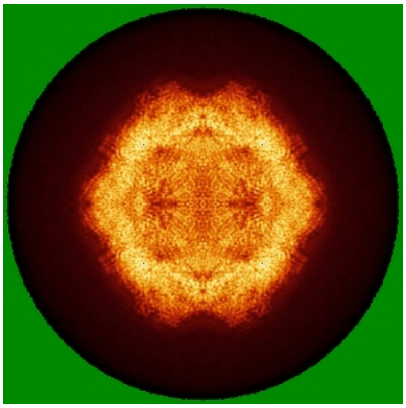


Z Index: 123

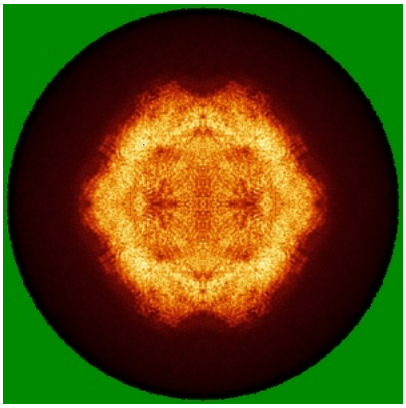
The images above show the largest variance slices of the map in three orthogonal directions.

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

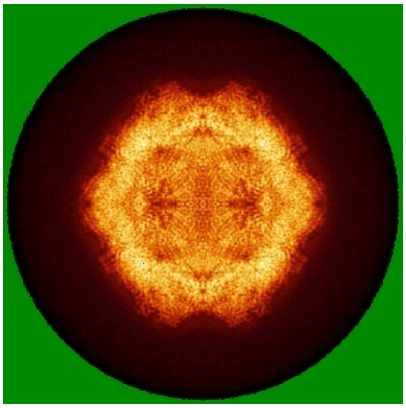
6.4.1 Primary map



X



Y

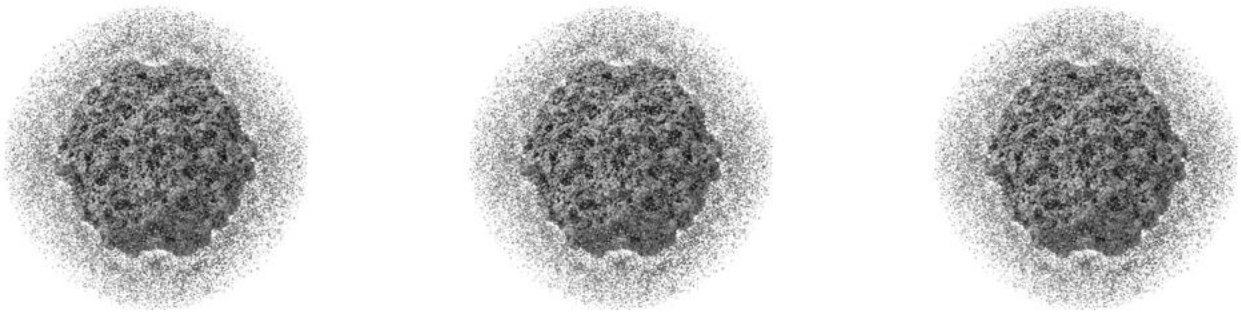


Z

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 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

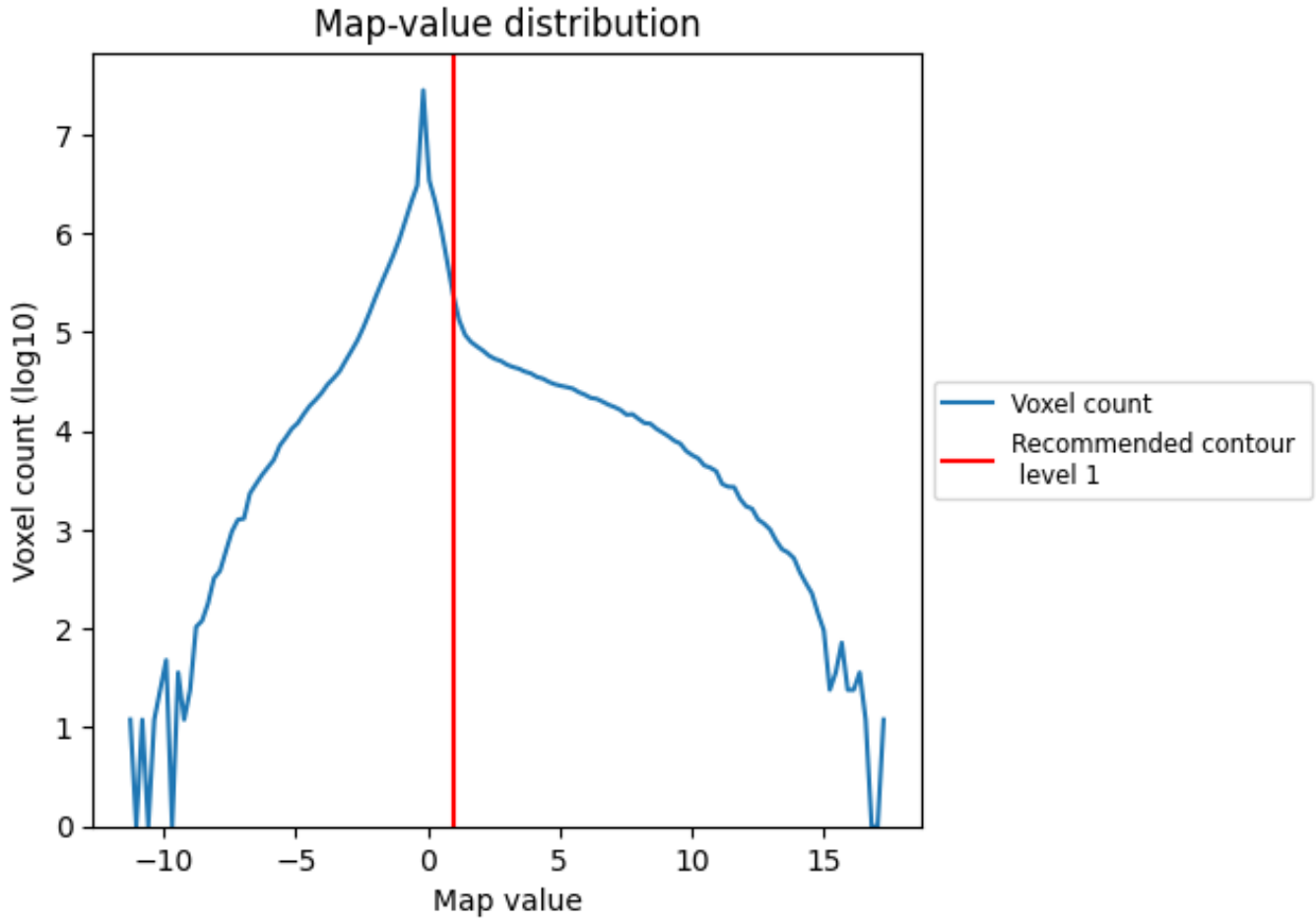
6.6 Mask visualisation (i)

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

7 Map analysis

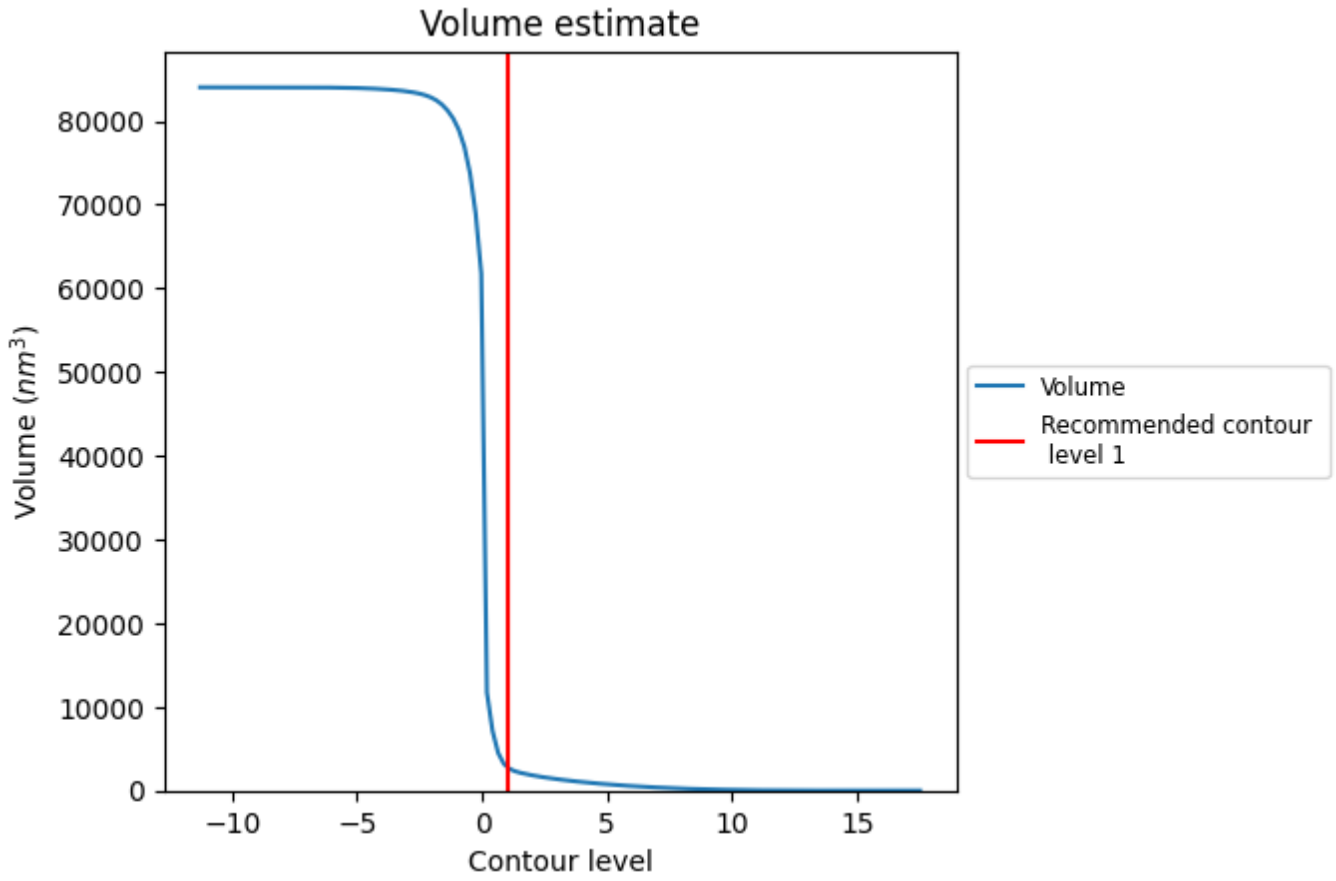
This section contains the results of statistical analysis of the map.

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.

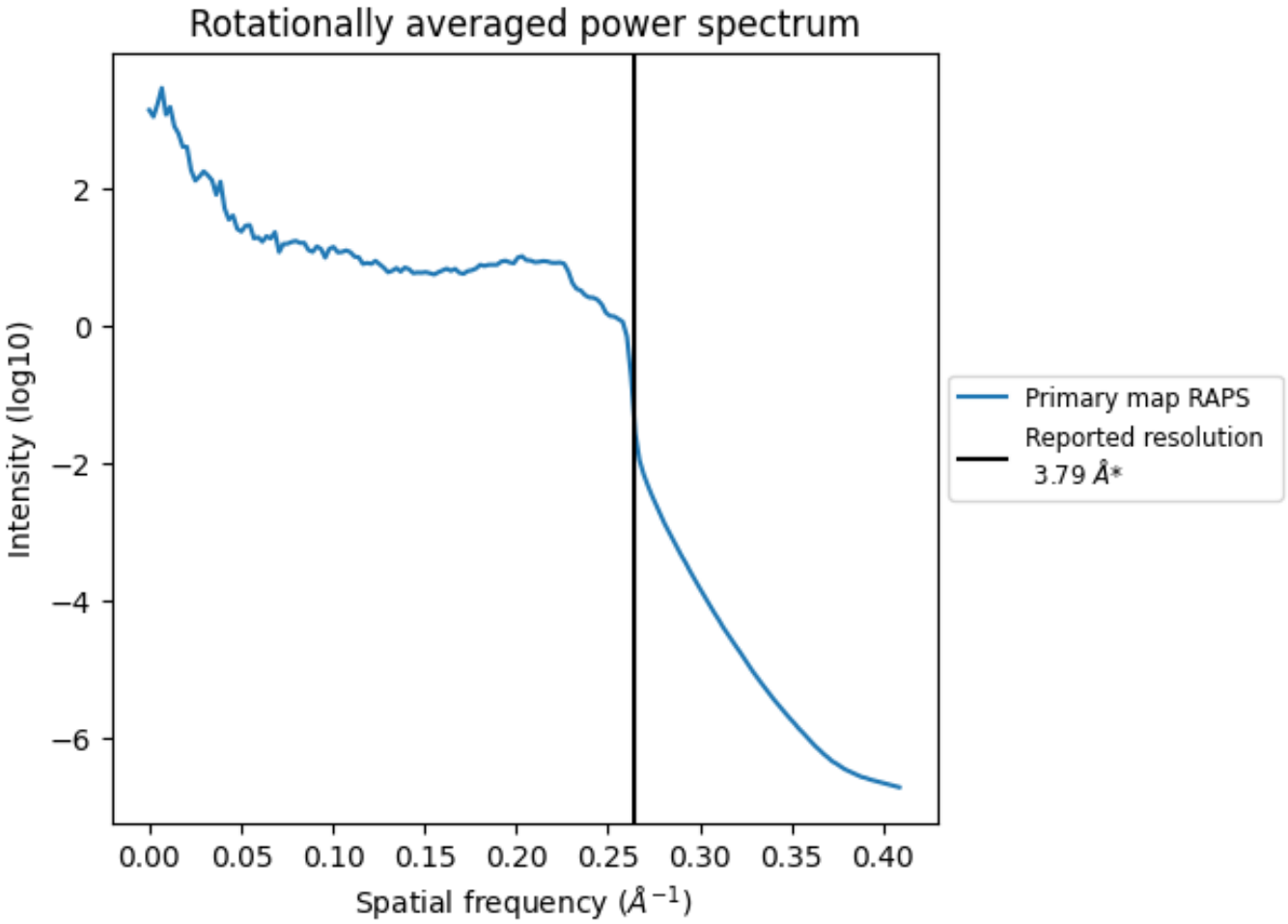
7.2 Volume estimate



The volume at the recommended contour level is 2859 nm^3; this corresponds to an approximate mass of 2582 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 0.264 Å^{-1}

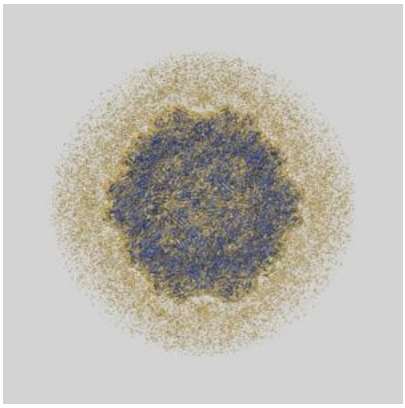
8 Fourier-Shell correlation

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

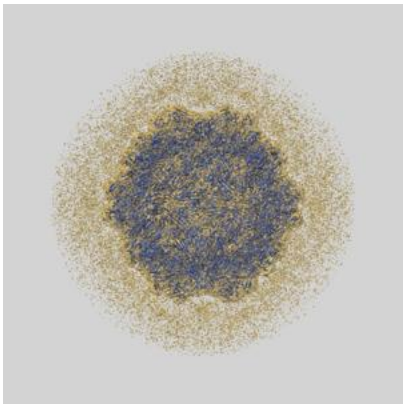
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-7301 and PDB model 6BX0. Per-residue inclusion information can be found in section 3 on page 10.

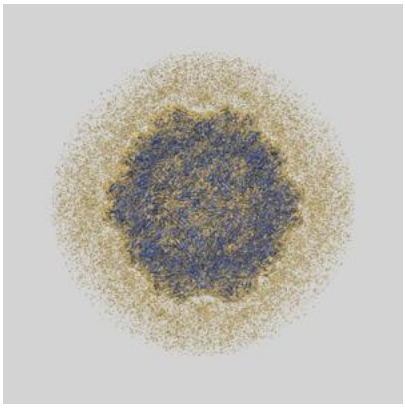
9.1 Map-model overlay



X



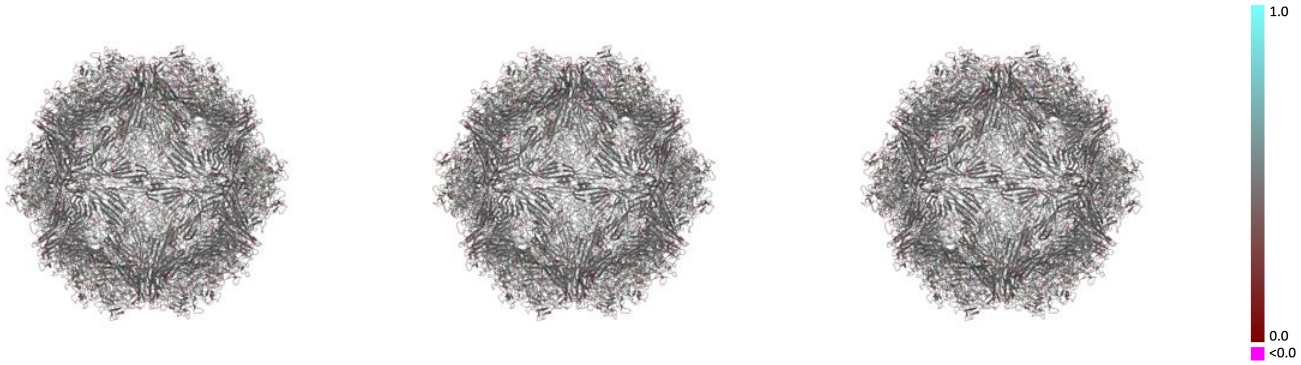
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

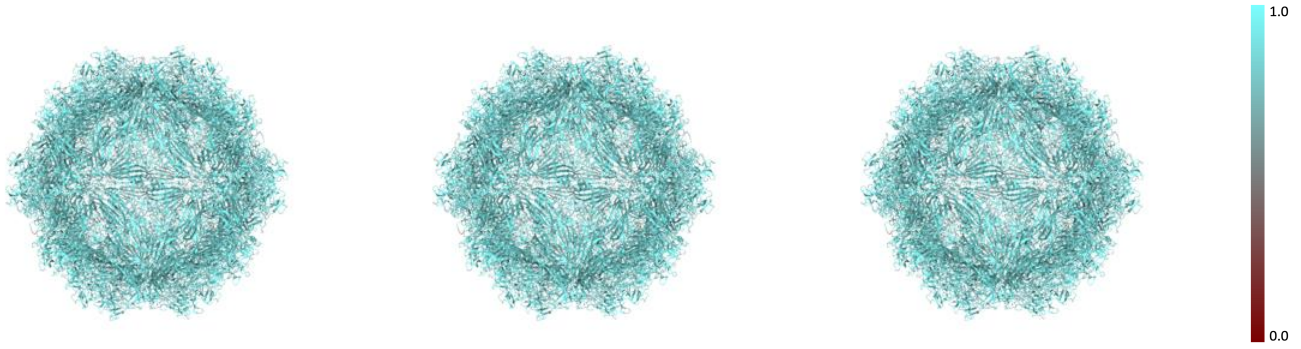
9.2 Q-score mapped to coordinate model (i)



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.

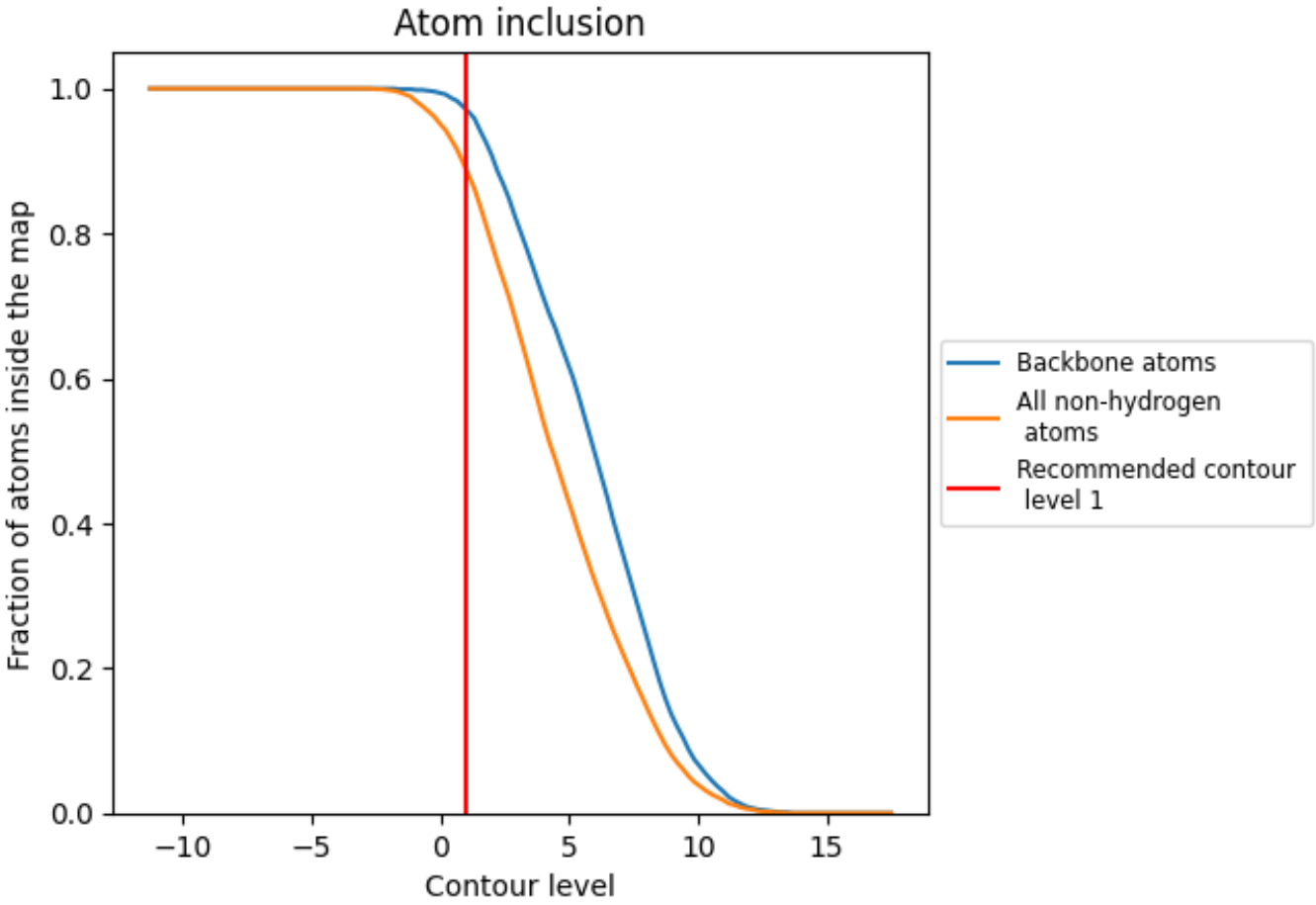
9.3 Atom inclusion mapped to coordinate model (i)



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).

9.4 Atom inclusion (i)



At the recommended contour level, 97% of all backbone atoms, 89% 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) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8890	0.4470
0	0.8880	0.4450
1	0.8890	0.4460
2	0.8890	0.4470
3	0.8890	0.4480
4	0.8880	0.4450
5	0.8890	0.4450
6	0.8880	0.4450
7	0.8880	0.4460
A	0.8900	0.4470
B	0.8890	0.4470
C	0.8880	0.4480
D	0.8880	0.4450
E	0.8880	0.4440
F	0.8890	0.4460
G	0.8890	0.4470
H	0.8890	0.4470
I	0.8890	0.4460
J	0.8880	0.4460
K	0.8880	0.4460
L	0.8890	0.4470
M	0.8880	0.4460
N	0.8880	0.4450
O	0.8880	0.4450
P	0.8880	0.4470
Q	0.8890	0.4470
R	0.8890	0.4470
S	0.8890	0.4470
T	0.8890	0.4480
U	0.8880	0.4450
V	0.8880	0.4450
W	0.8880	0.4450
X	0.8880	0.4460
Y	0.8890	0.4480
Z	0.8890	0.4480

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Chain	Atom inclusion	Q-score
a	0.8890	0.4460
b	0.8870	0.4480
c	0.8890	0.4460
d	0.8880	0.4460
e	0.8880	0.4470
f	0.8890	0.4460
g	0.8890	0.4470
h	0.8890	0.4480
i	0.8890	0.4480
j	0.8890	0.4470
k	0.8880	0.4440
l	0.8890	0.4470
m	0.8890	0.4470
n	0.8890	0.4460
o	0.8890	0.4470
p	0.8880	0.4460
q	0.8880	0.4450
r	0.8880	0.4460
s	0.8880	0.4450
t	0.8890	0.4470
u	0.8890	0.4470
v	0.8890	0.4480
w	0.8880	0.4460
x	0.8890	0.4470
y	0.8890	0.4480
z	0.8890	0.4470