Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 02:48 PM UTC

PDB ID	:	9N5L / pdb_00009n5l
EMDB ID	:	EMD-48926
Title	:	The Red Crowned-Crane Parvovirus Capsid
Authors	:	Hsi, J.; Mietzsch, M.; McKenna, R.
Deposited on	:	2025-02-04
Resolution	:	2.66 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:

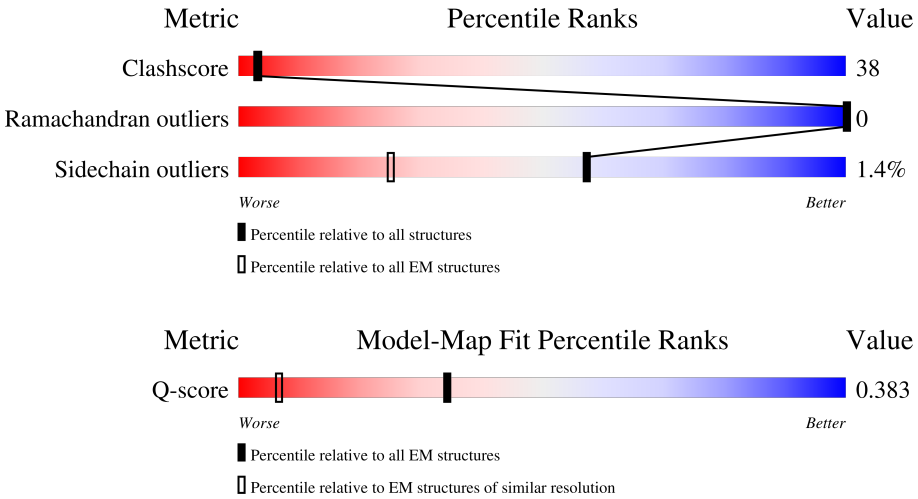
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 2.66 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	9119 (2.16 - 3.16)

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

Mol	Chain	Length	Quality of chain
1	1	531	6% 41% 52% • 5%
1	2	531	6% 41% 52% • 5%
1	3	531	7% 41% 52% • 5%
1	4	531	7% 41% 52% • 5%

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Mol	Chain	Length	Quality of chain
1	5	531	7% 41% 51% • 5%
1	6	531	7% 41% 52% • 5%
1	7	531	7% 40% 53% • 5%
1	8	531	7% 41% 51% • 5%
1	A	531	7% 41% 52% • 5%
1	B	531	6% 41% 52% • 5%
1	C	531	7% 41% 52% • 5%
1	D	531	7% 41% 51% • 5%
1	E	531	7% 41% 52% • 5%
1	F	531	7% 41% 52% • 5%
1	G	531	7% 41% 52% • 5%
1	H	531	7% 41% 52% • 5%
1	I	531	7% 41% 52% • 5%
1	J	531	6% 41% 51% • 5%
1	K	531	7% 41% 51% • 5%
1	L	531	6% 41% 52% • 5%
1	M	531	7% 41% 52% • 5%
1	N	531	7% 41% 51% • 5%
1	O	531	7% 41% 52% • 5%
1	P	531	7% 41% 52% • 5%
1	Q	531	7% 41% 52% • 5%
1	R	531	6% 41% 52% • 5%
1	S	531	6% 42% 51% • 5%
1	T	531	7% 41% 52% • 5%
1	U	531	6% 41% 52% • 5%

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Mol	Chain	Length	Quality of chain
1	V	531	7% 41% 51% • 5%
1	W	531	7% 41% 52% • 5%
1	X	531	7% 41% 52% • 5%
1	Y	531	7% 40% 53% • 5%
1	Z	531	7% 42% 51% • 5%
1	a	531	7% 41% 52% • 5%
1	b	531	7% 41% 52% • 5%
1	c	531	7% 41% 52% • 5%
1	d	531	7% 41% 52% • 5%
1	e	531	7% 41% 52% • 5%
1	f	531	7% 41% 52% • 5%
1	g	531	7% 41% 52% • 5%
1	h	531	7% 41% 52% • 5%
1	i	531	7% 41% 52% • 5%
1	j	531	7% 41% 52% • 5%
1	k	531	7% 41% 51% • 5%
1	l	531	7% 41% 52% • 5%
1	m	531	7% 41% 52% • 5%
1	n	531	7% 41% 52% • 5%
1	o	531	7% 41% 52% • 5%
1	p	531	7% 42% 51% • 5%
1	q	531	6% 41% 52% • 5%
1	r	531	6% 41% 52% • 5%
1	s	531	6% 41% 52% • 5%
1	t	531	7% 40% 52% • 5%

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Mol	Chain	Length	Quality of chain
1	u	531	7% 41% 51% • 5%
1	v	531	7% 42% 51% • 5%
1	w	531	7% 41% 52% • 5%
1	x	531	7% 40% 52% • 5%
1	y	531	8% 41% 52% • 5%
1	z	531	6% 41% 52% • 5%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 239580 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 Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	B	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	C	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	D	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	E	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	F	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	G	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	H	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	I	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	J	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	K	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	L	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	M	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	N	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	O	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	P	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	Q	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	S	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	T	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	U	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	V	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	W	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	X	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	Y	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	Z	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	a	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	b	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	c	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	d	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	e	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	f	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	g	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	h	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	i	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	j	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	k	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		
1	l	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	n	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	o	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	p	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	q	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	r	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	s	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	t	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	u	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	v	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	w	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	x	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	y	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	z	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	1	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	2	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	3	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	4	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	5	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	6	505	Total 3991	C 2510	N 686	O 768	S 27	0	0
1	7	505	Total 3991	C 2510	N 686	O 768	S 27	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	505	Total	C	N	O	S	0	0
			3991	2510	686	768	27		

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
2	A	2	Total	Mg	0
			2	2	
2	B	2	Total	Mg	0
			2	2	
2	C	2	Total	Mg	0
			2	2	
2	D	2	Total	Mg	0
			2	2	
2	E	2	Total	Mg	0
			2	2	
2	F	2	Total	Mg	0
			2	2	
2	G	2	Total	Mg	0
			2	2	
2	H	2	Total	Mg	0
			2	2	
2	I	2	Total	Mg	0
			2	2	
2	J	2	Total	Mg	0
			2	2	
2	K	2	Total	Mg	0
			2	2	
2	L	2	Total	Mg	0
			2	2	
2	M	2	Total	Mg	0
			2	2	
2	N	2	Total	Mg	0
			2	2	
2	O	2	Total	Mg	0
			2	2	
2	P	2	Total	Mg	0
			2	2	
2	Q	2	Total	Mg	0
			2	2	
2	R	2	Total	Mg	0
			2	2	

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Mol	Chain	Residues	Atoms	AltConf
2	S	2	Total Mg 2 2	0
2	T	2	Total Mg 2 2	0
2	U	2	Total Mg 2 2	0
2	V	2	Total Mg 2 2	0
2	W	2	Total Mg 2 2	0
2	X	2	Total Mg 2 2	0
2	Y	2	Total Mg 2 2	0
2	Z	2	Total Mg 2 2	0
2	a	2	Total Mg 2 2	0
2	b	2	Total Mg 2 2	0
2	c	2	Total Mg 2 2	0
2	d	2	Total Mg 2 2	0
2	e	2	Total Mg 2 2	0
2	f	2	Total Mg 2 2	0
2	g	2	Total Mg 2 2	0
2	h	2	Total Mg 2 2	0
2	i	2	Total Mg 2 2	0
2	j	2	Total Mg 2 2	0
2	k	2	Total Mg 2 2	0
2	l	2	Total Mg 2 2	0
2	m	2	Total Mg 2 2	0

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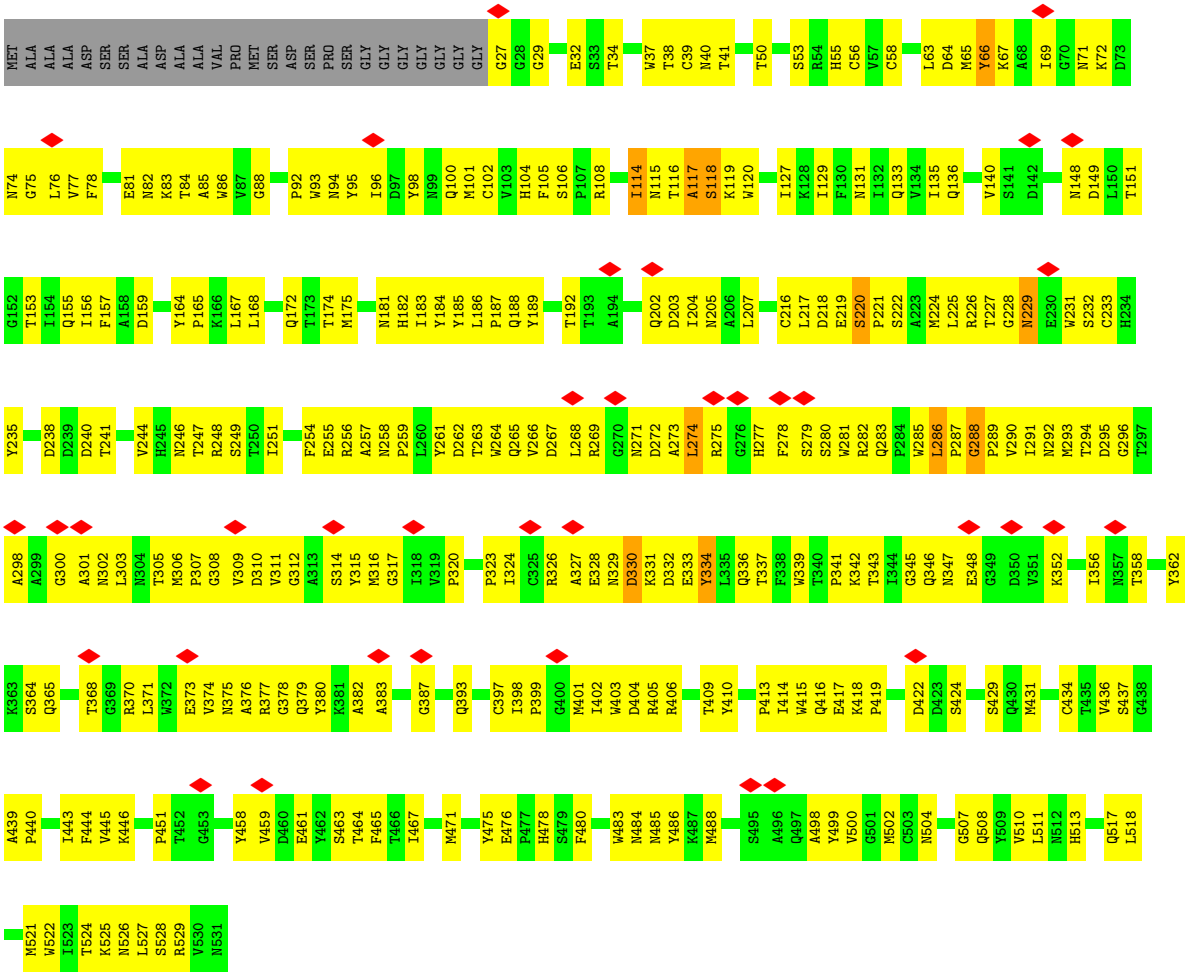
Mol	Chain	Residues	Atoms	AltConf
2	n	2	Total Mg 2 2	0
2	o	2	Total Mg 2 2	0
2	p	2	Total Mg 2 2	0
2	q	2	Total Mg 2 2	0
2	r	2	Total Mg 2 2	0
2	s	2	Total Mg 2 2	0
2	t	2	Total Mg 2 2	0
2	u	2	Total Mg 2 2	0
2	v	2	Total Mg 2 2	0
2	w	2	Total Mg 2 2	0
2	x	2	Total Mg 2 2	0
2	y	2	Total Mg 2 2	0
2	z	2	Total Mg 2 2	0
2	1	2	Total Mg 2 2	0
2	2	2	Total Mg 2 2	0
2	3	2	Total Mg 2 2	0
2	4	2	Total Mg 2 2	0
2	5	2	Total Mg 2 2	0
2	6	2	Total Mg 2 2	0
2	7	2	Total Mg 2 2	0
2	8	2	Total Mg 2 2	0

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.

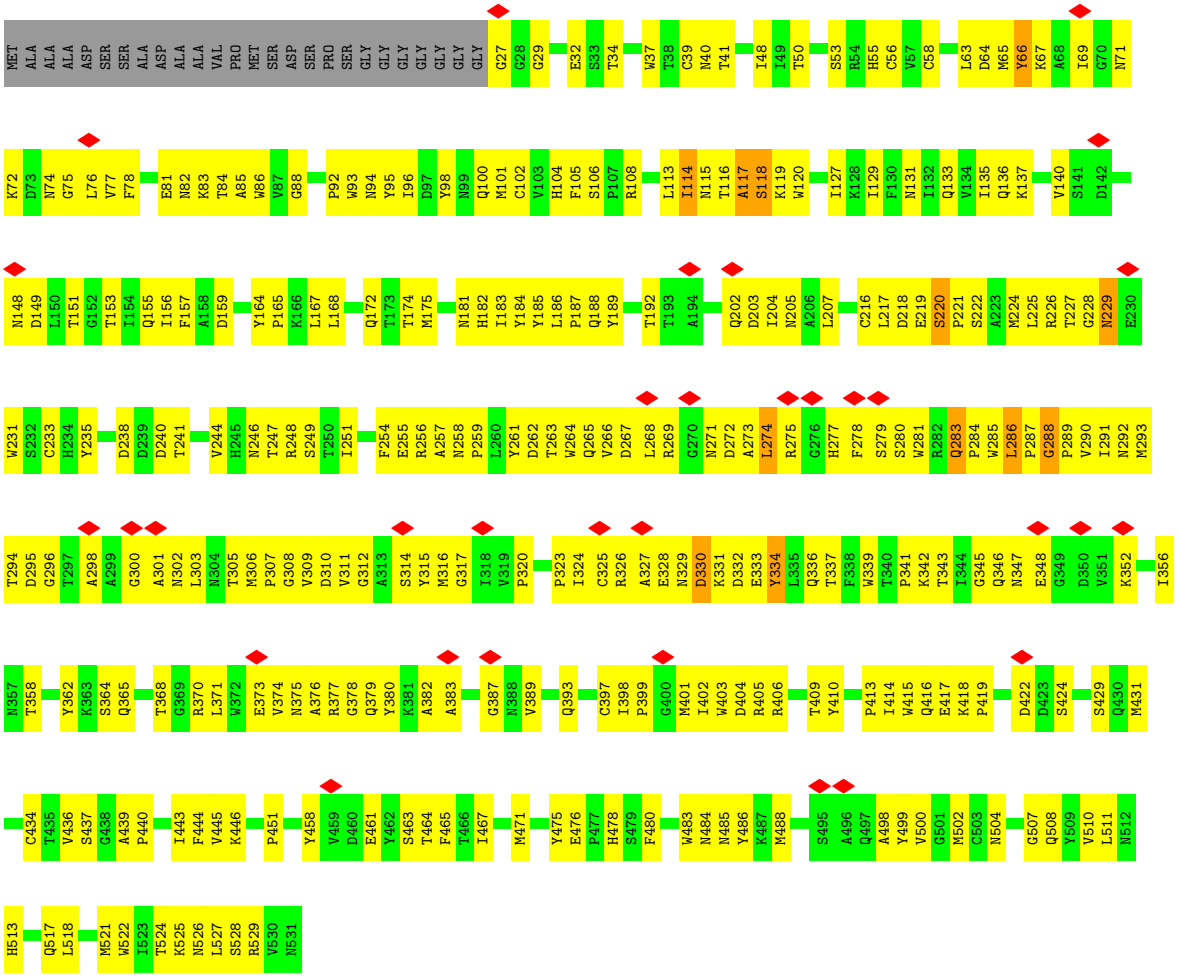
• Molecule 1: Major capsid protein

Chain A:



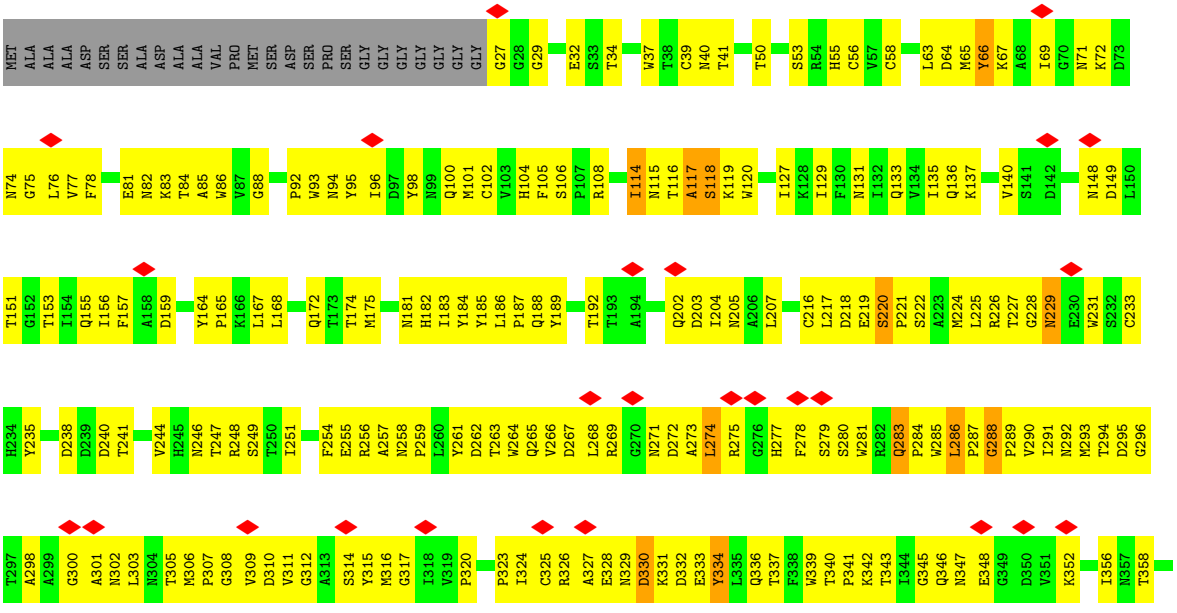
• Molecule 1: Major capsid protein

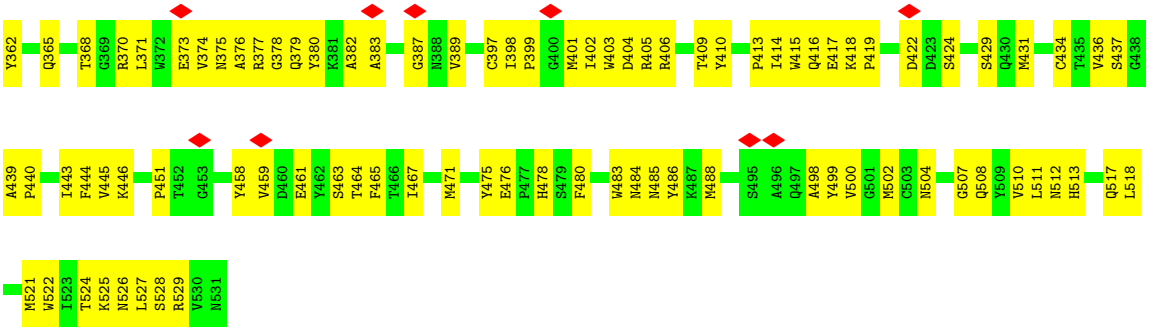
Chain B:



• Molecule 1: Major capsid protein

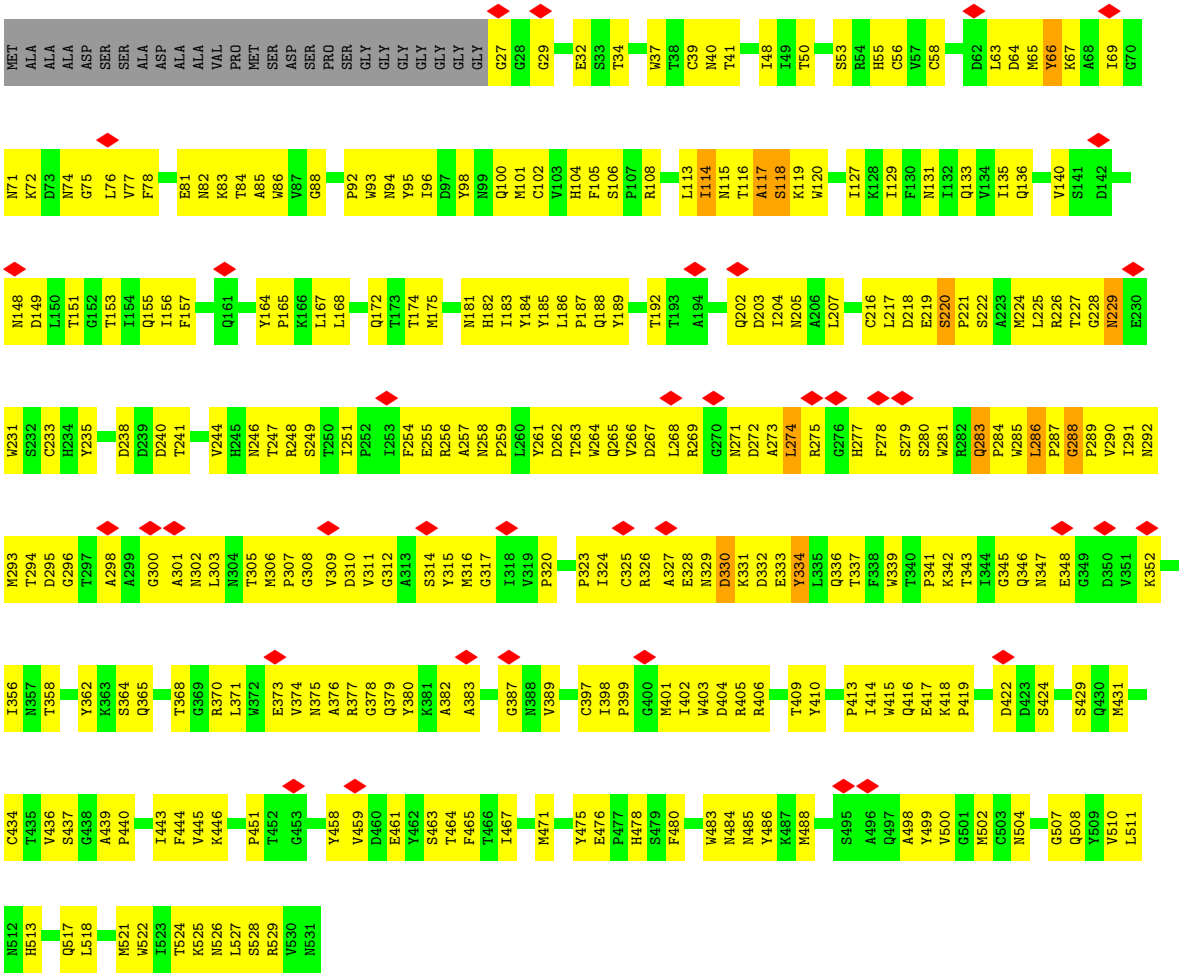
Chain C:





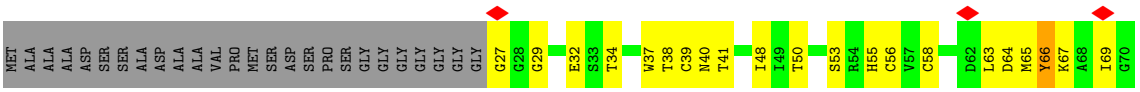
• Molecule 1: Major capsid protein

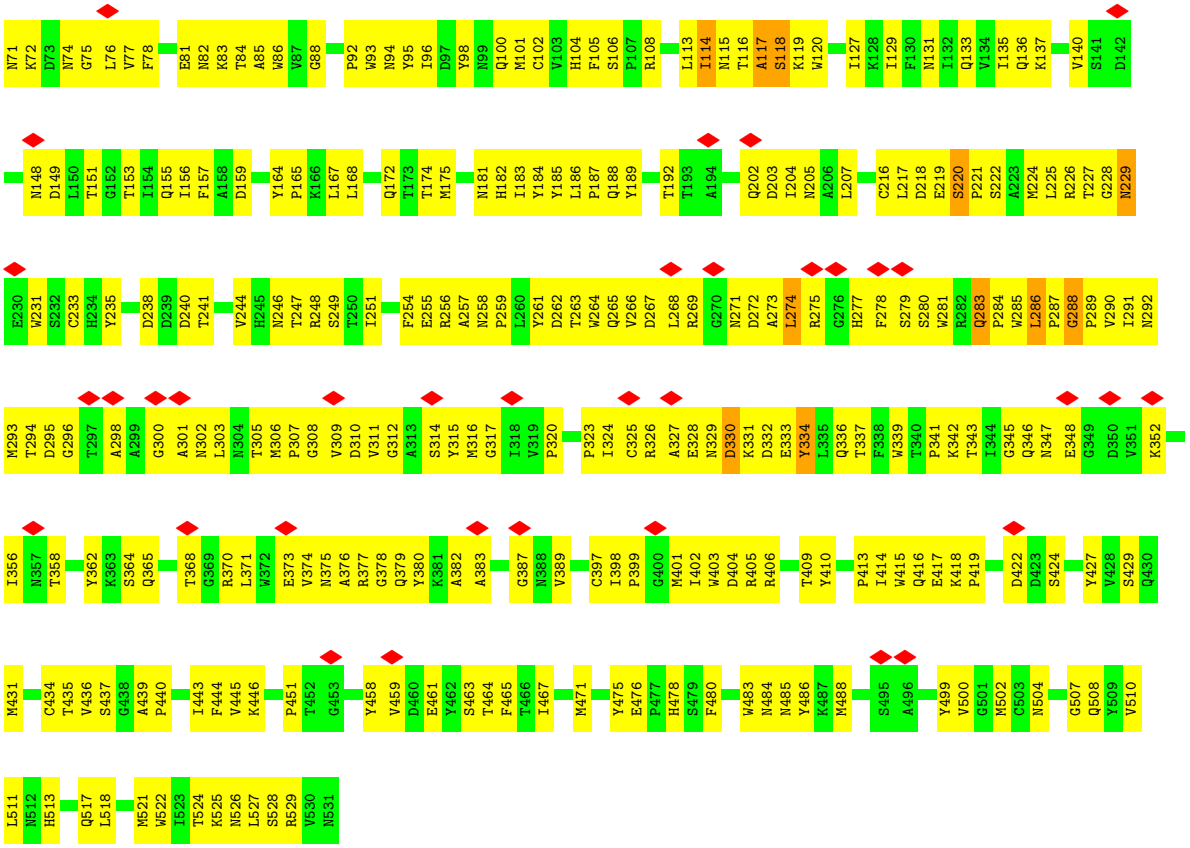
Chain D:



• Molecule 1: Major capsid protein

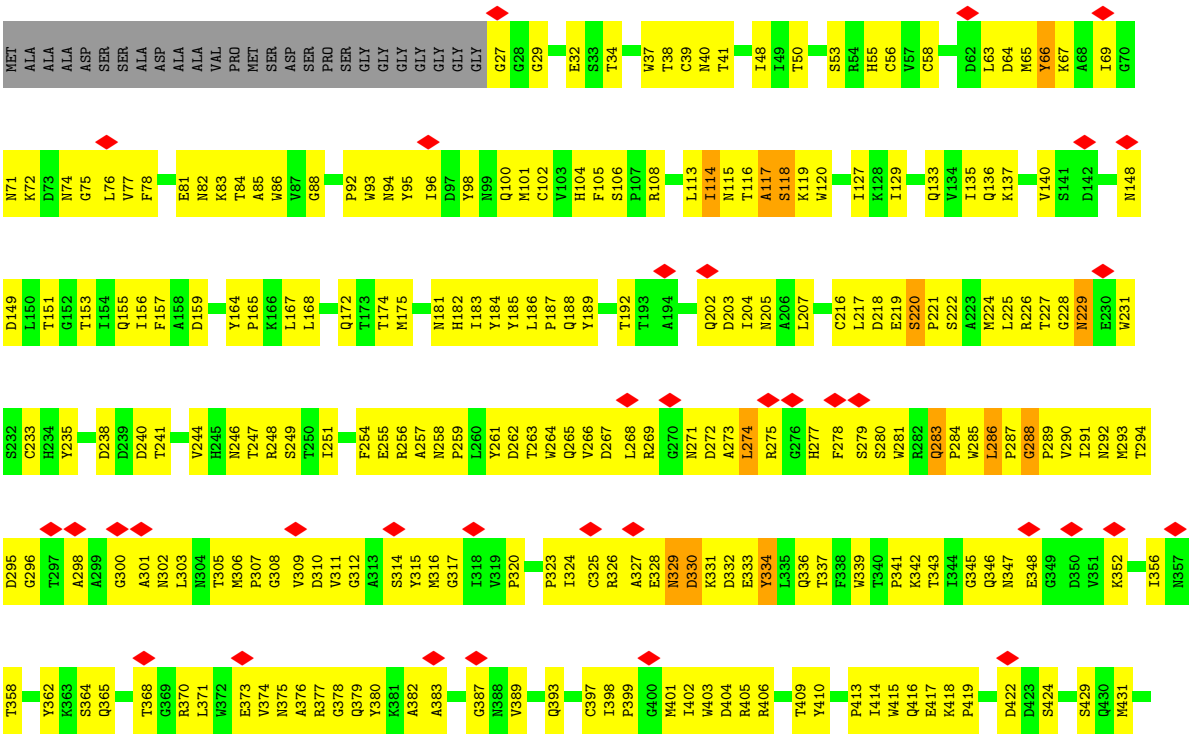
Chain E:

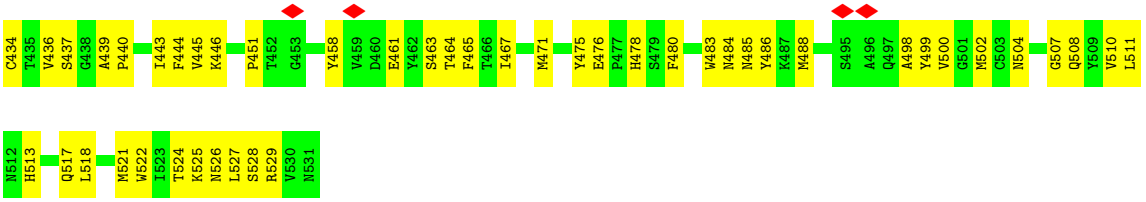




• Molecule 1: Major capsid protein

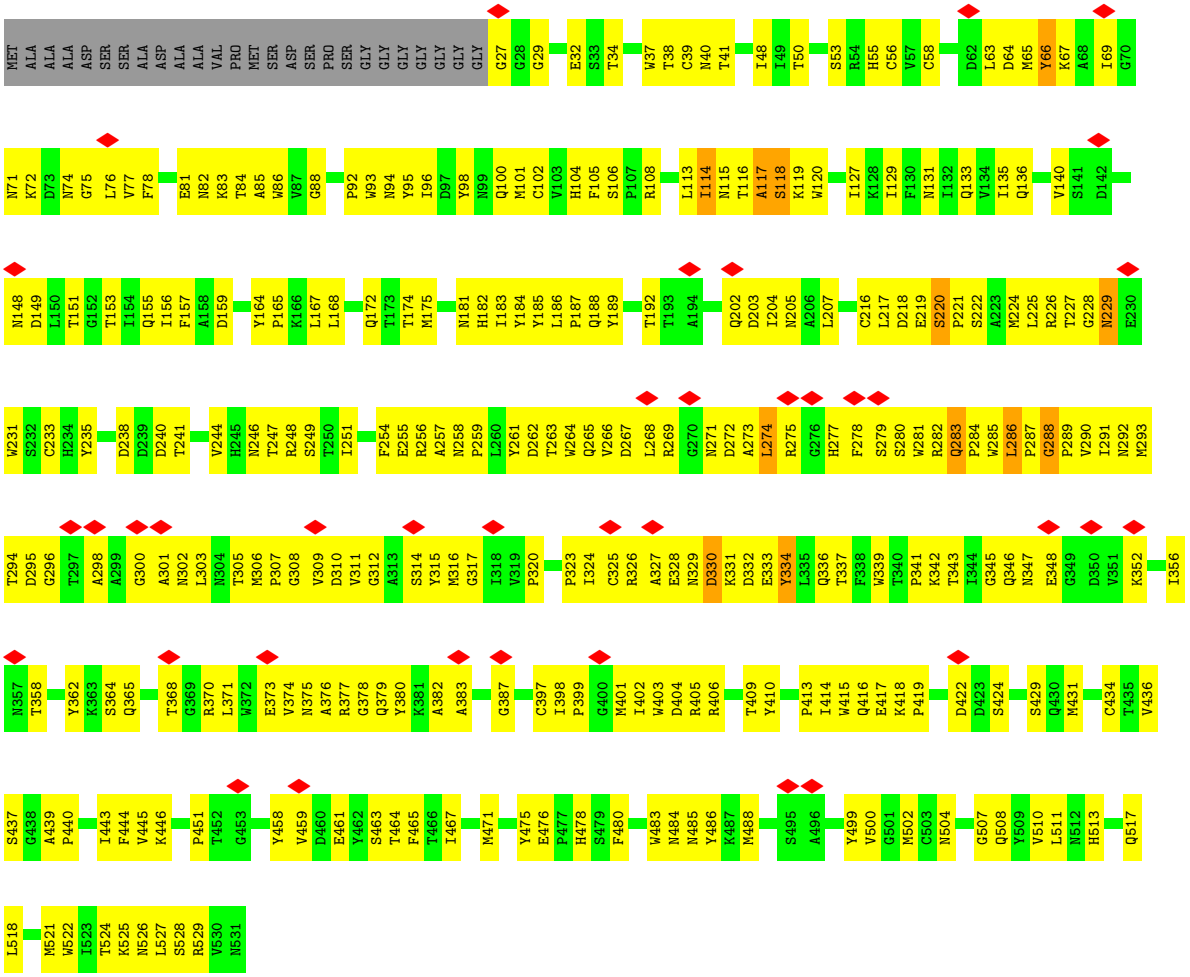
Chain F:





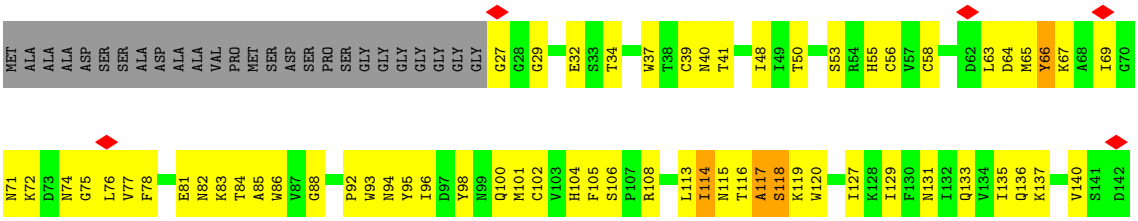
• Molecule 1: Major capsid protein

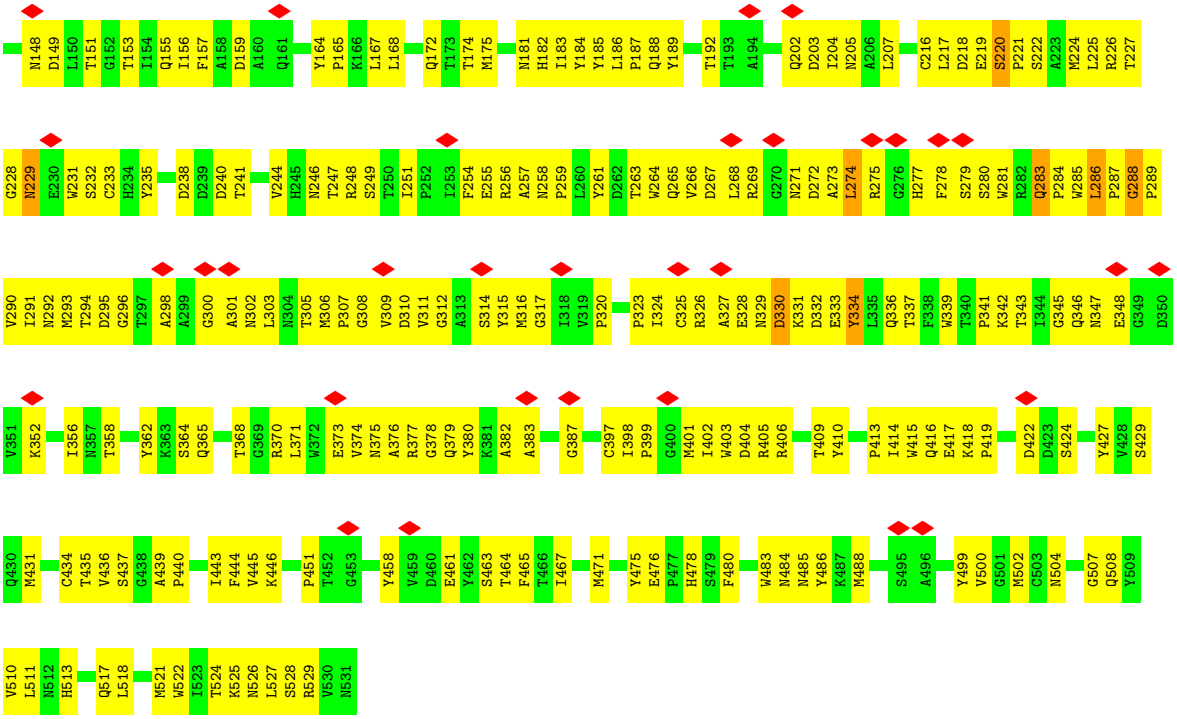
Chain G:



• Molecule 1: Major capsid protein

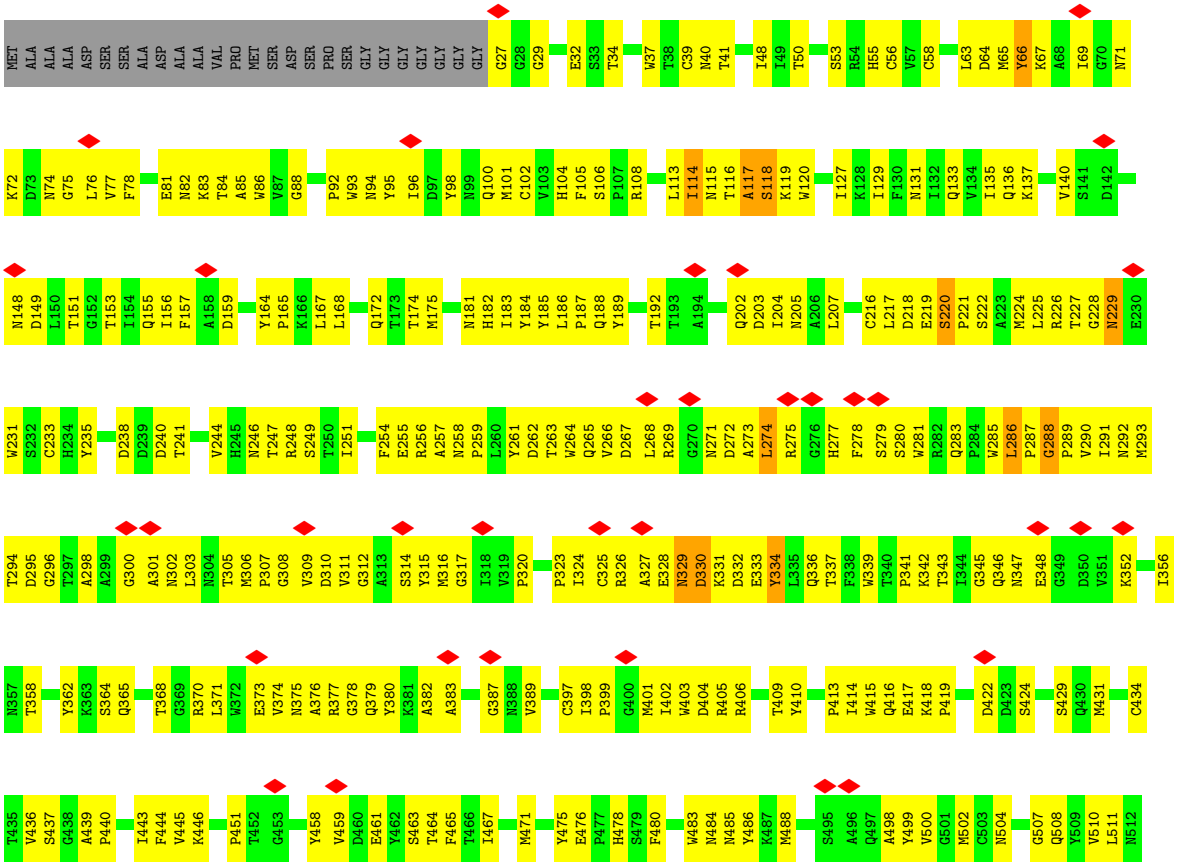
Chain H:





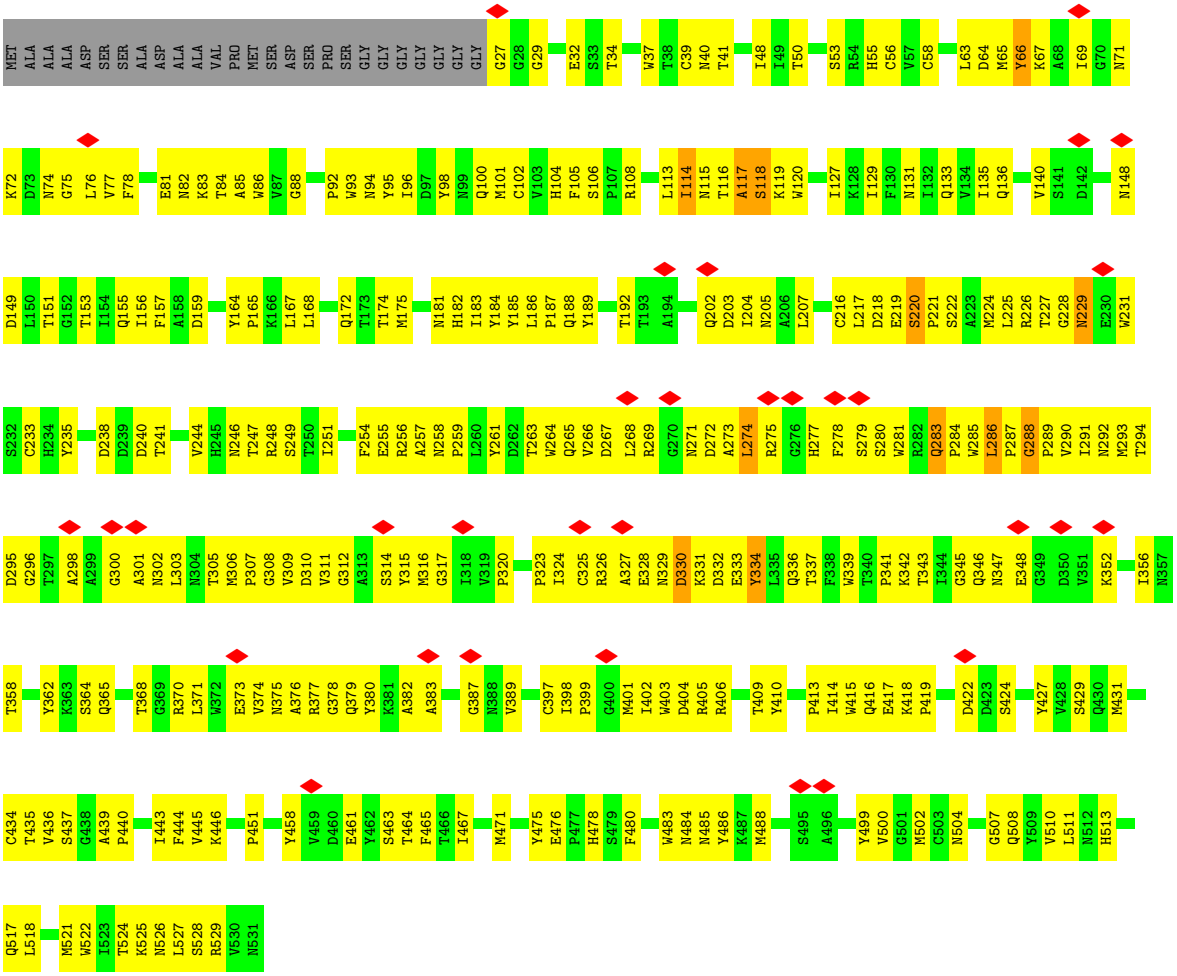
• Molecule 1: Major capsid protein

Chain I:



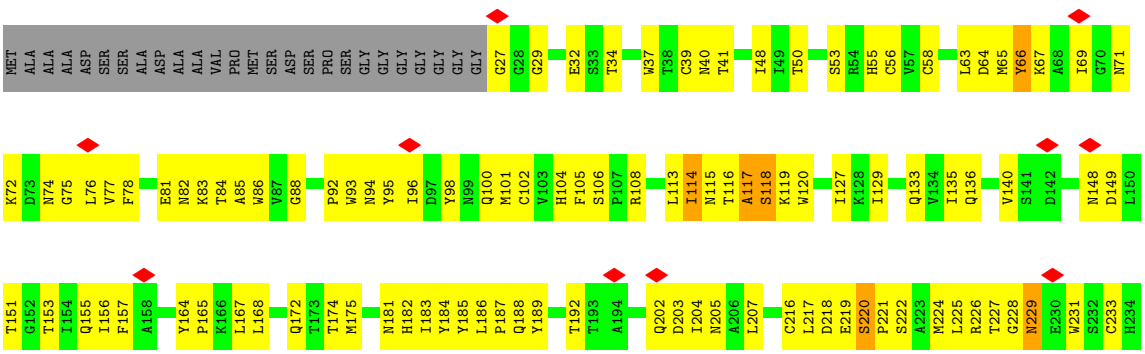
• Molecule 1: Major capsid protein

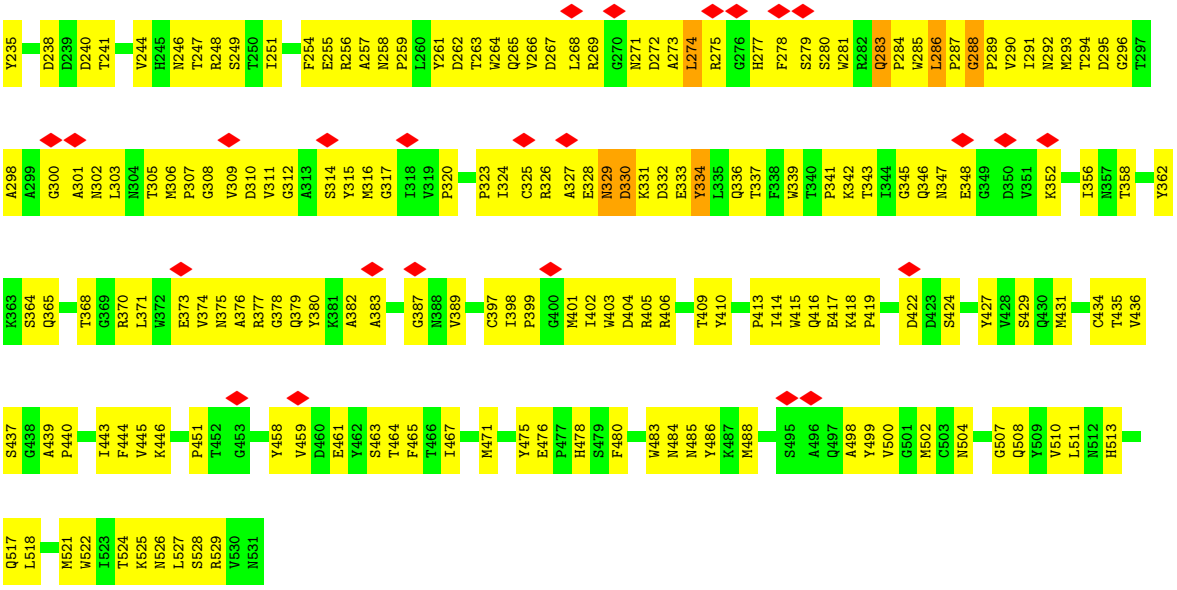
Chain J:



• Molecule 1: Major capsid protein

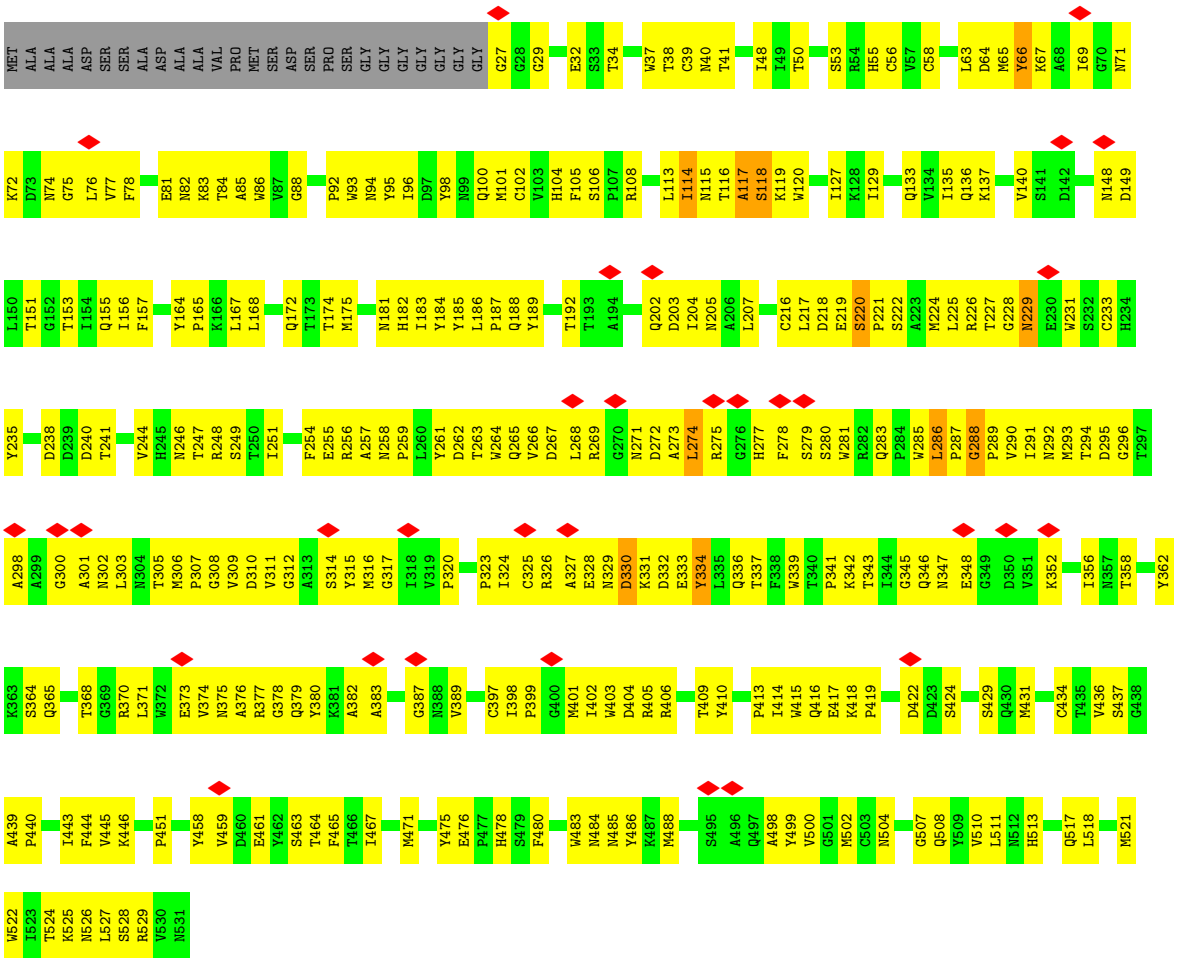
Chain K:





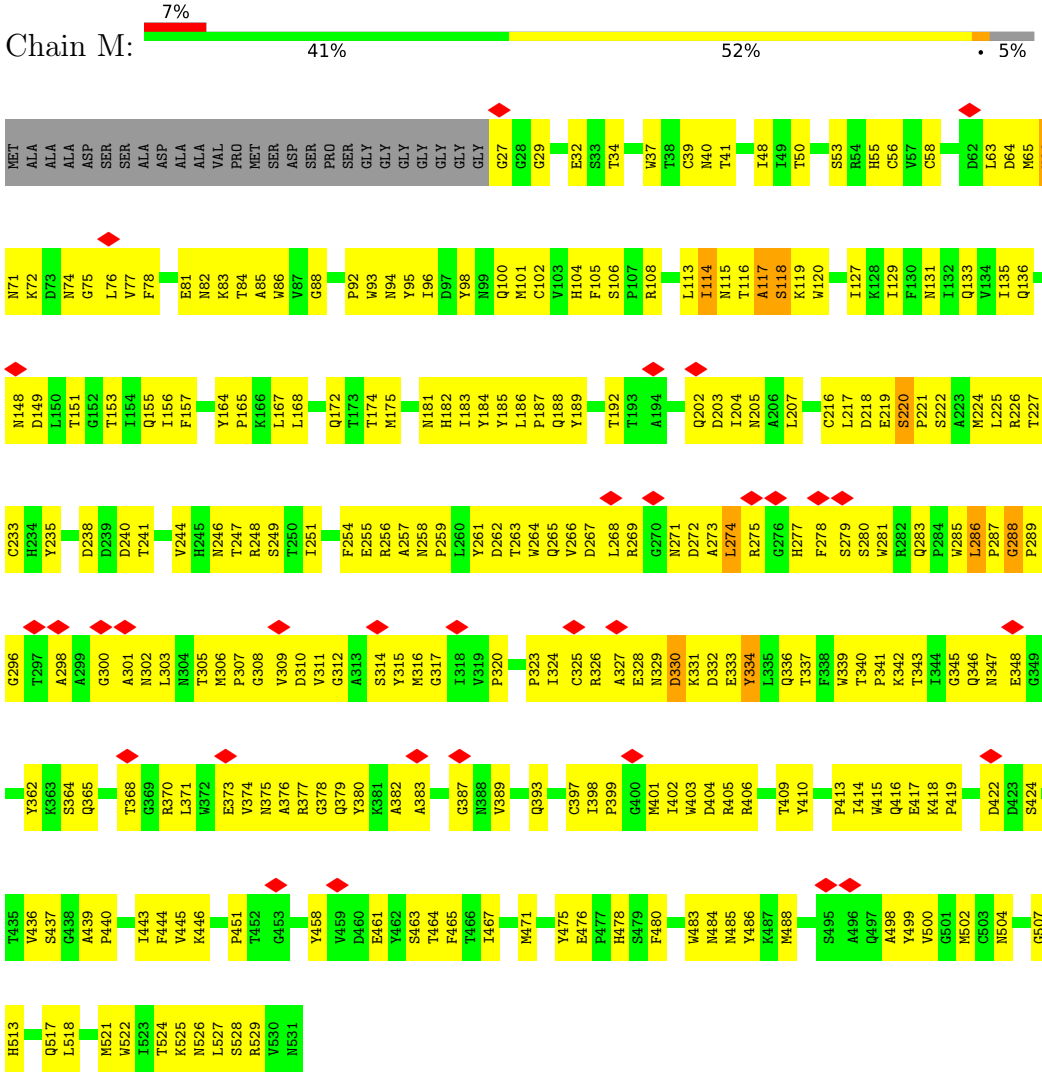
• Molecule 1: Major capsid protein

Chain L:



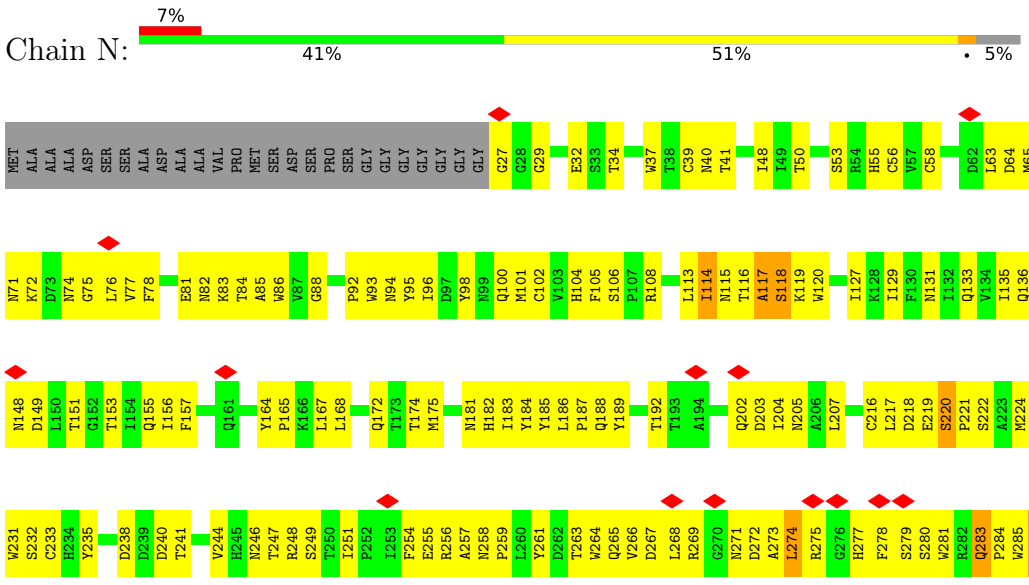
• Molecule 1: Major capsid protein

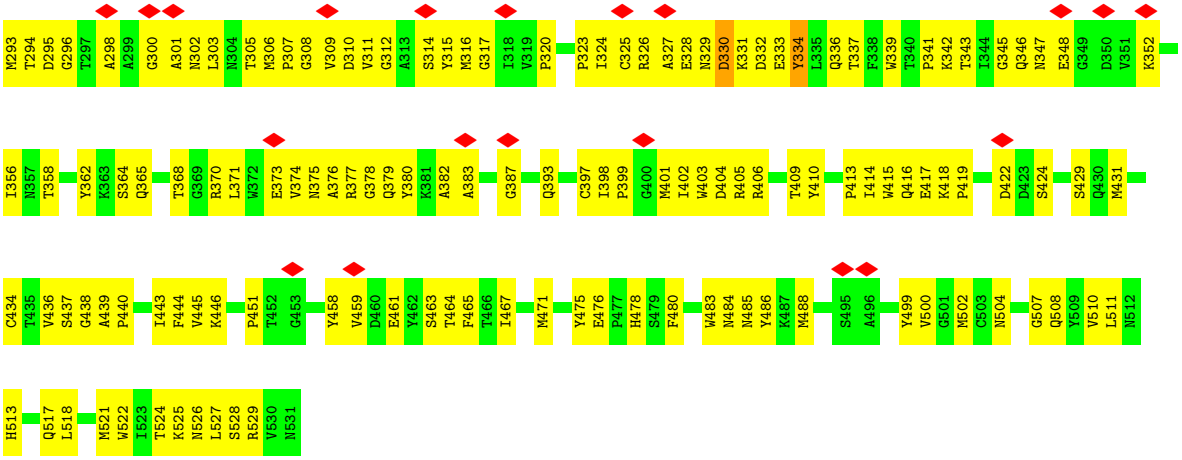
Chain M:



• Molecule 1: Major capsid protein

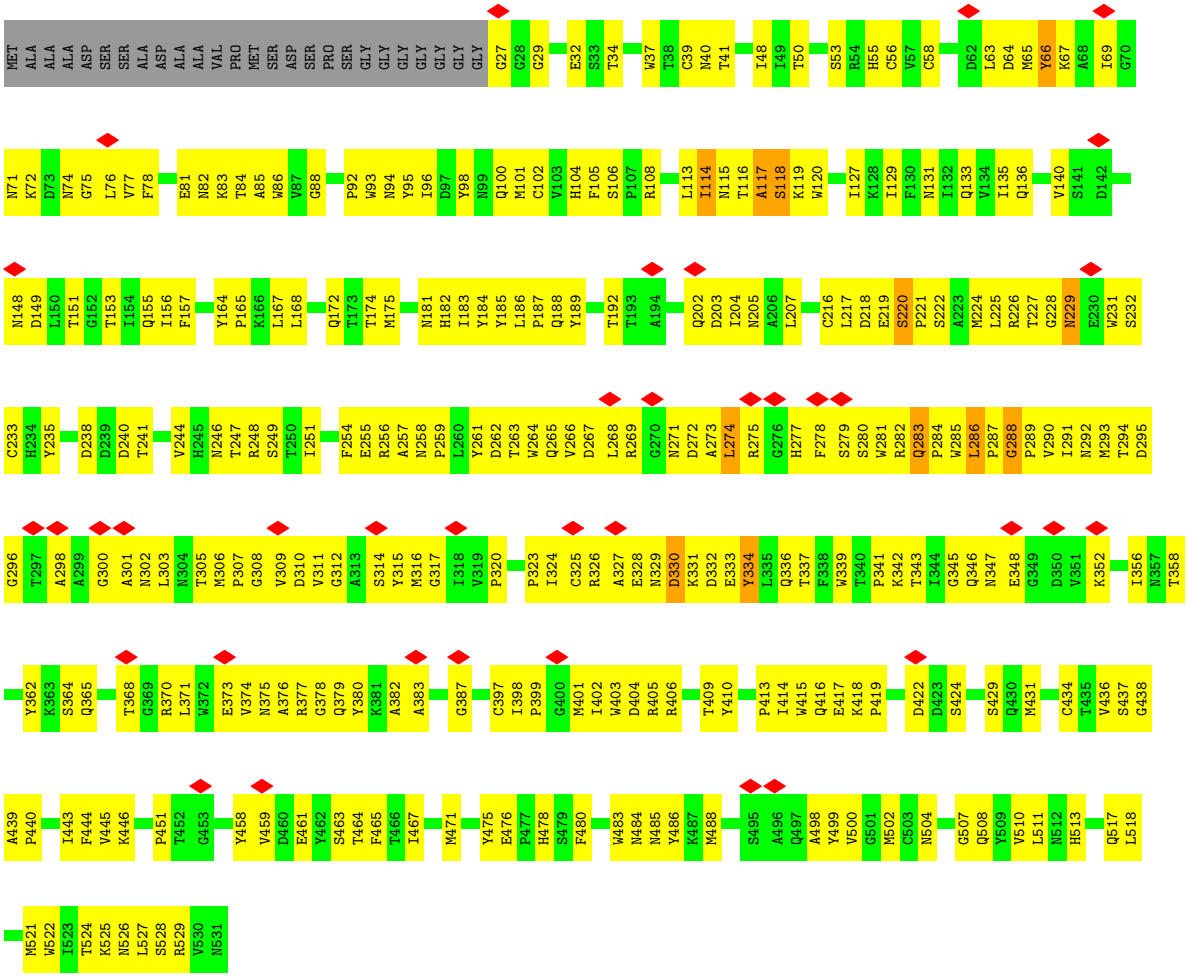
Chain N:





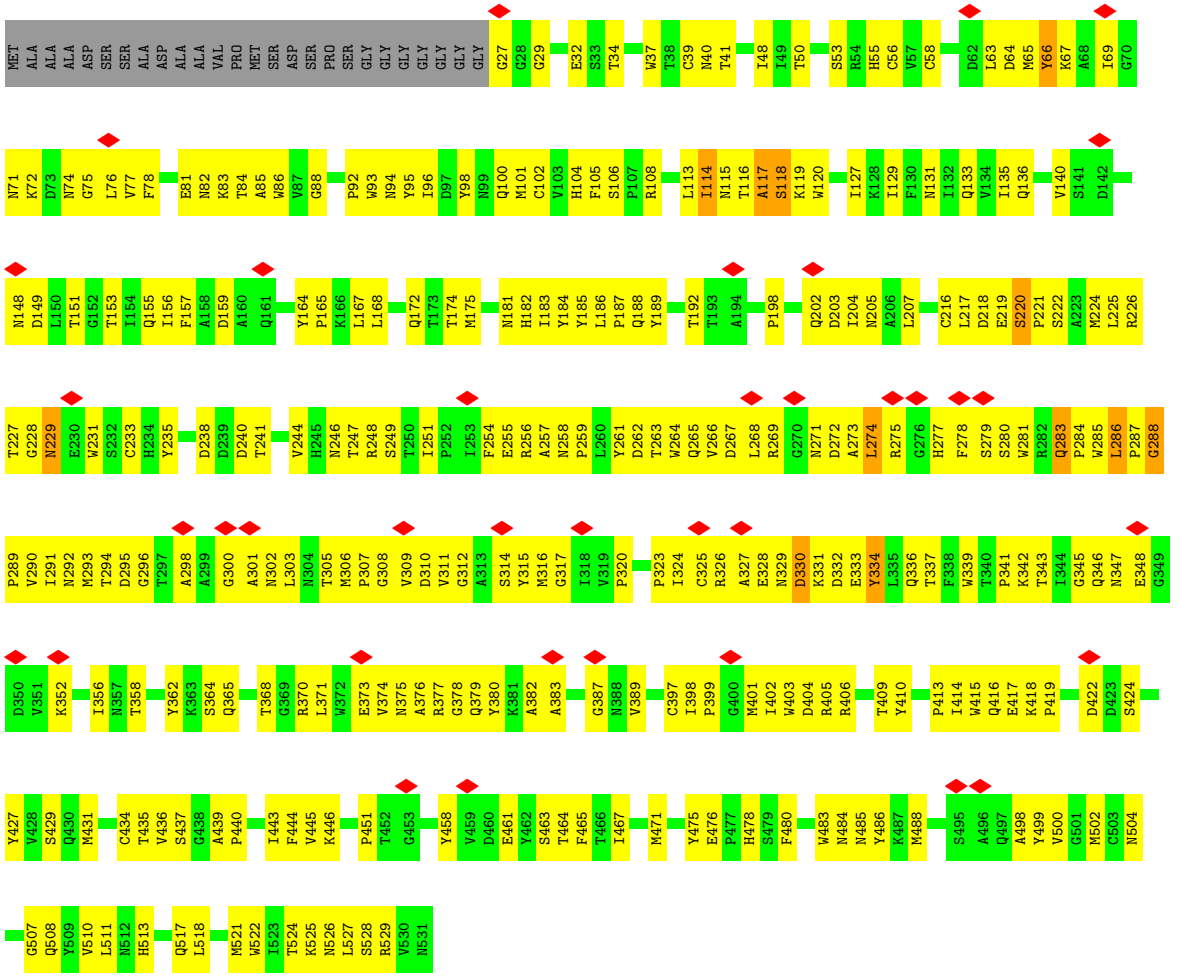
• Molecule 1: Major capsid protein

Chain O:



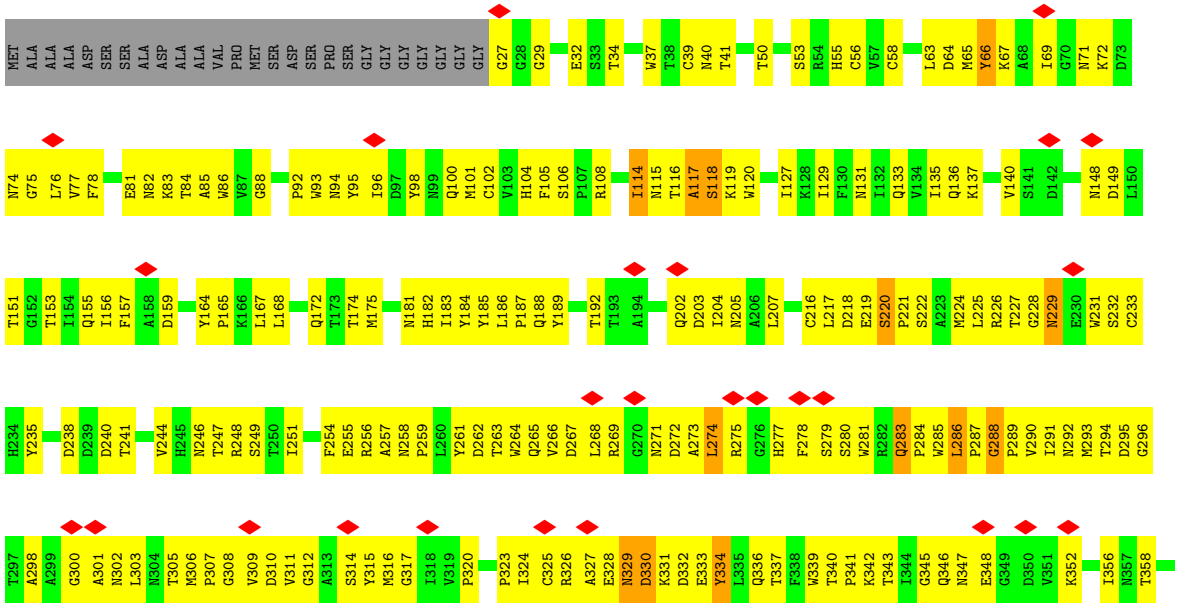
• Molecule 1: Major capsid protein

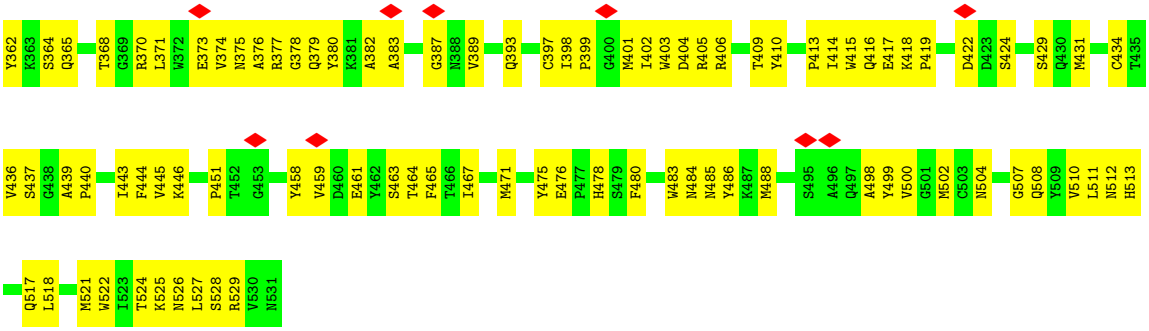
Chain P:



• Molecule 1: Major capsid protein

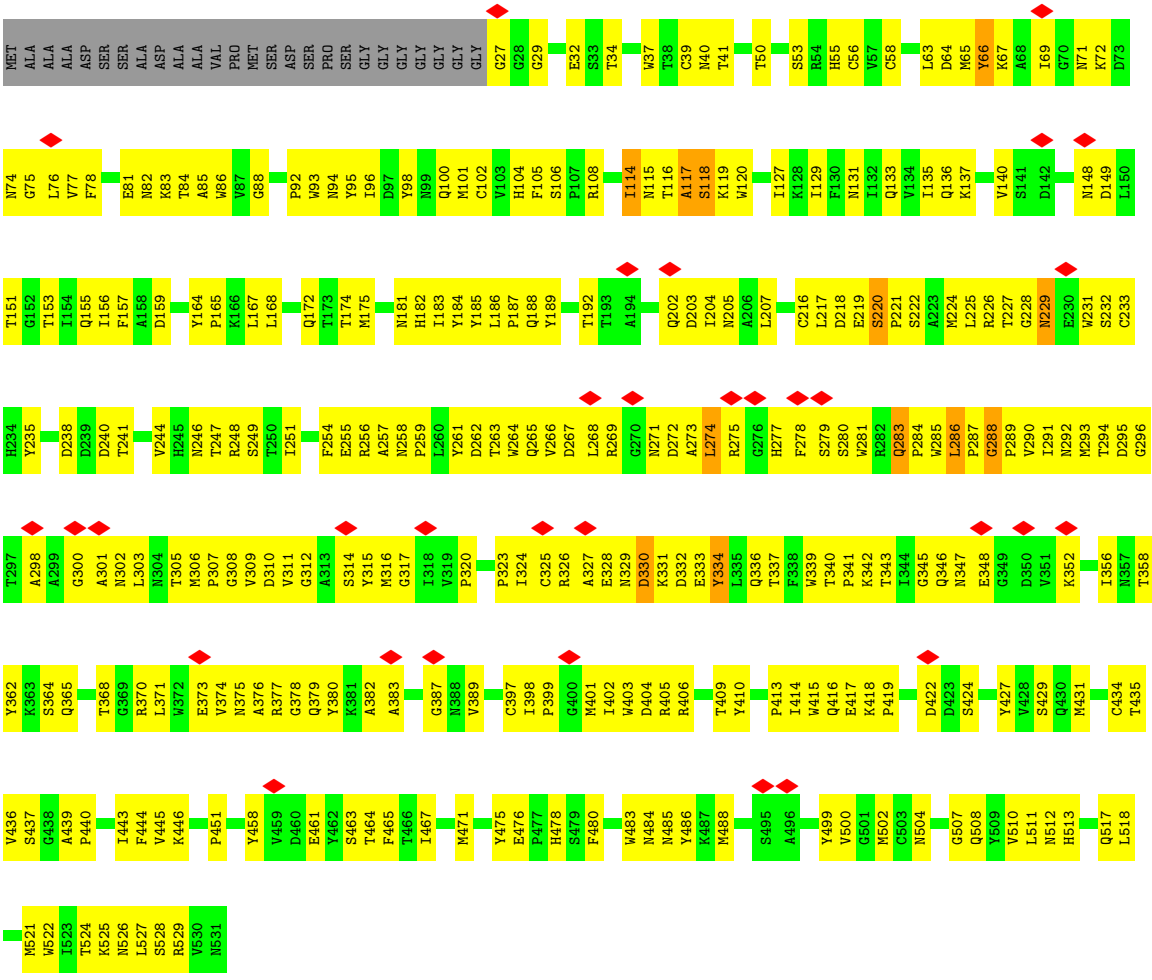
Chain Q:





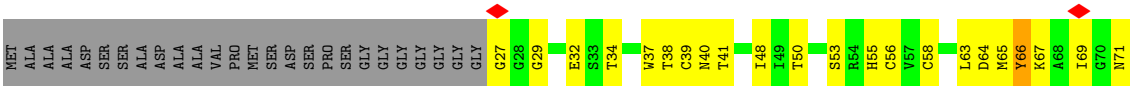
• Molecule 1: Major capsid protein

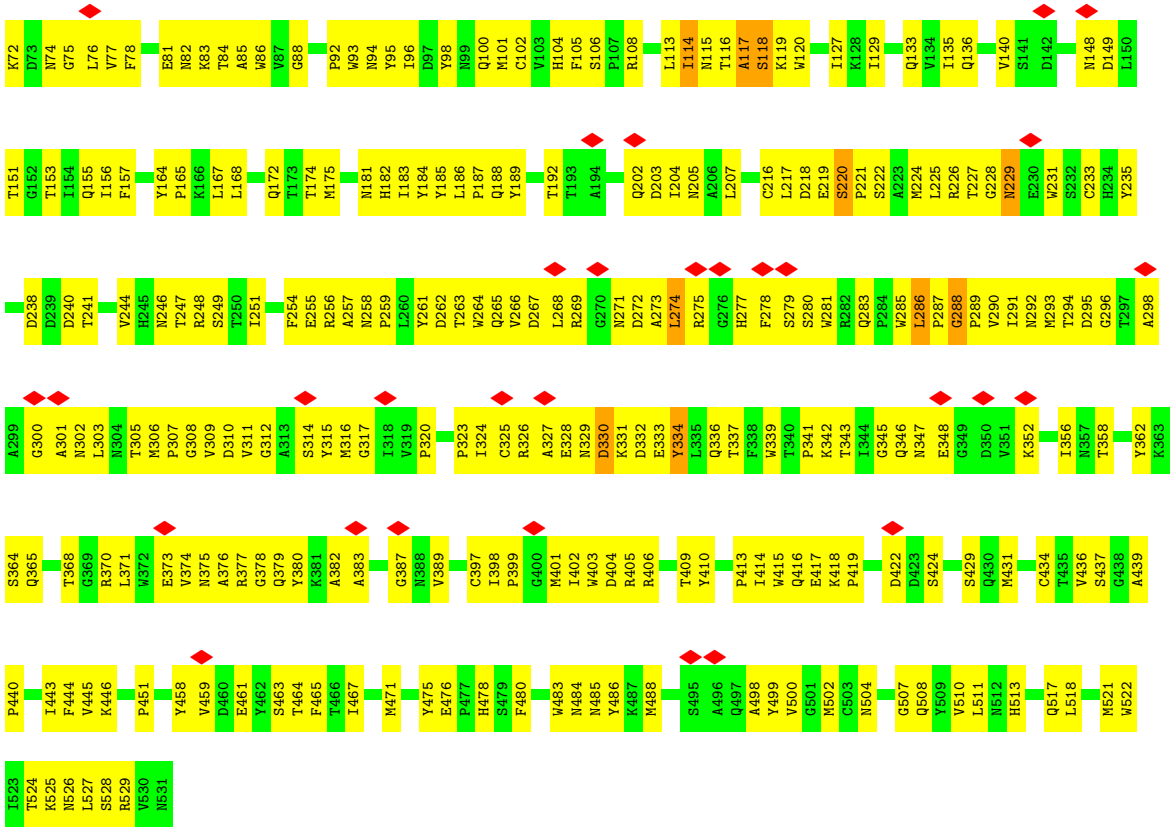
Chain R:



• Molecule 1: Major capsid protein

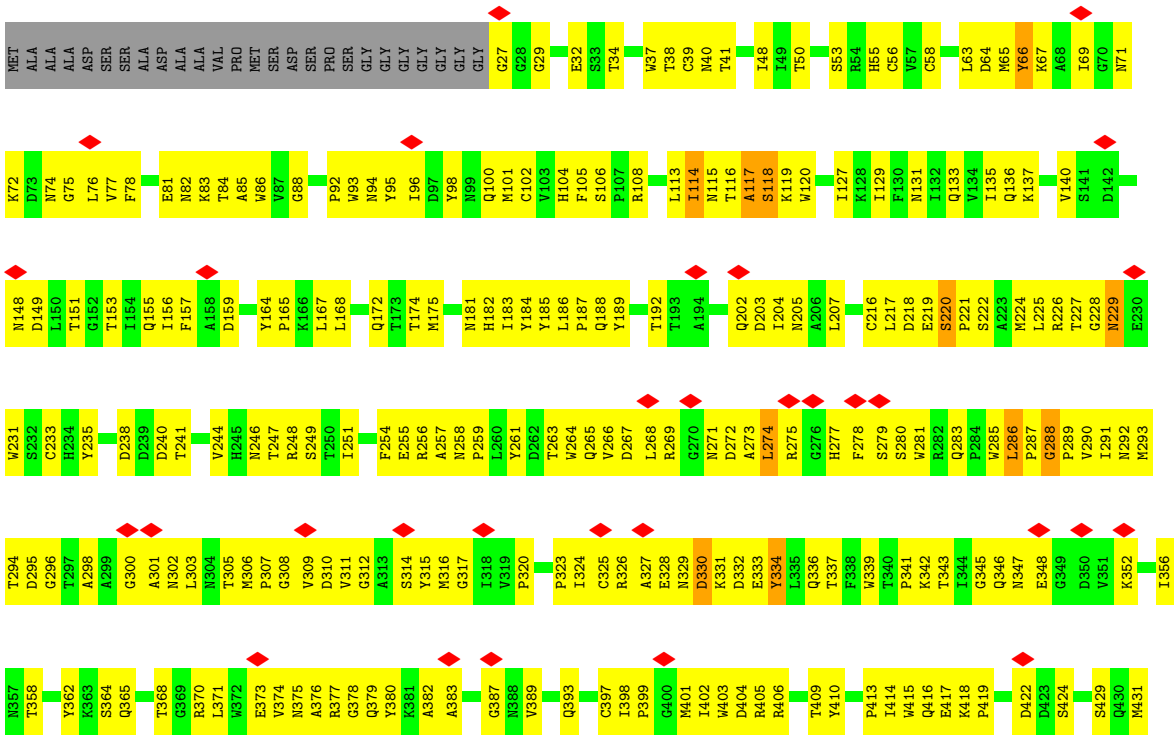
Chain S:

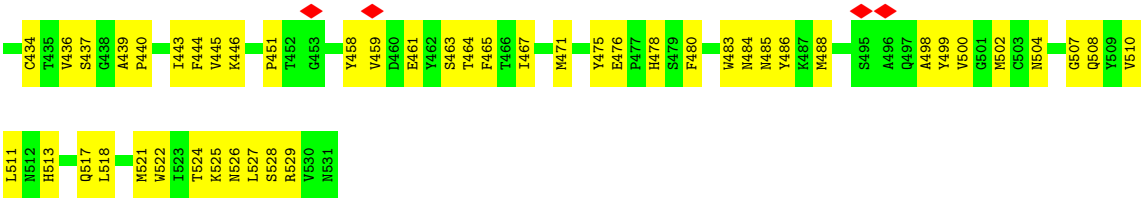




• Molecule 1: Major capsid protein

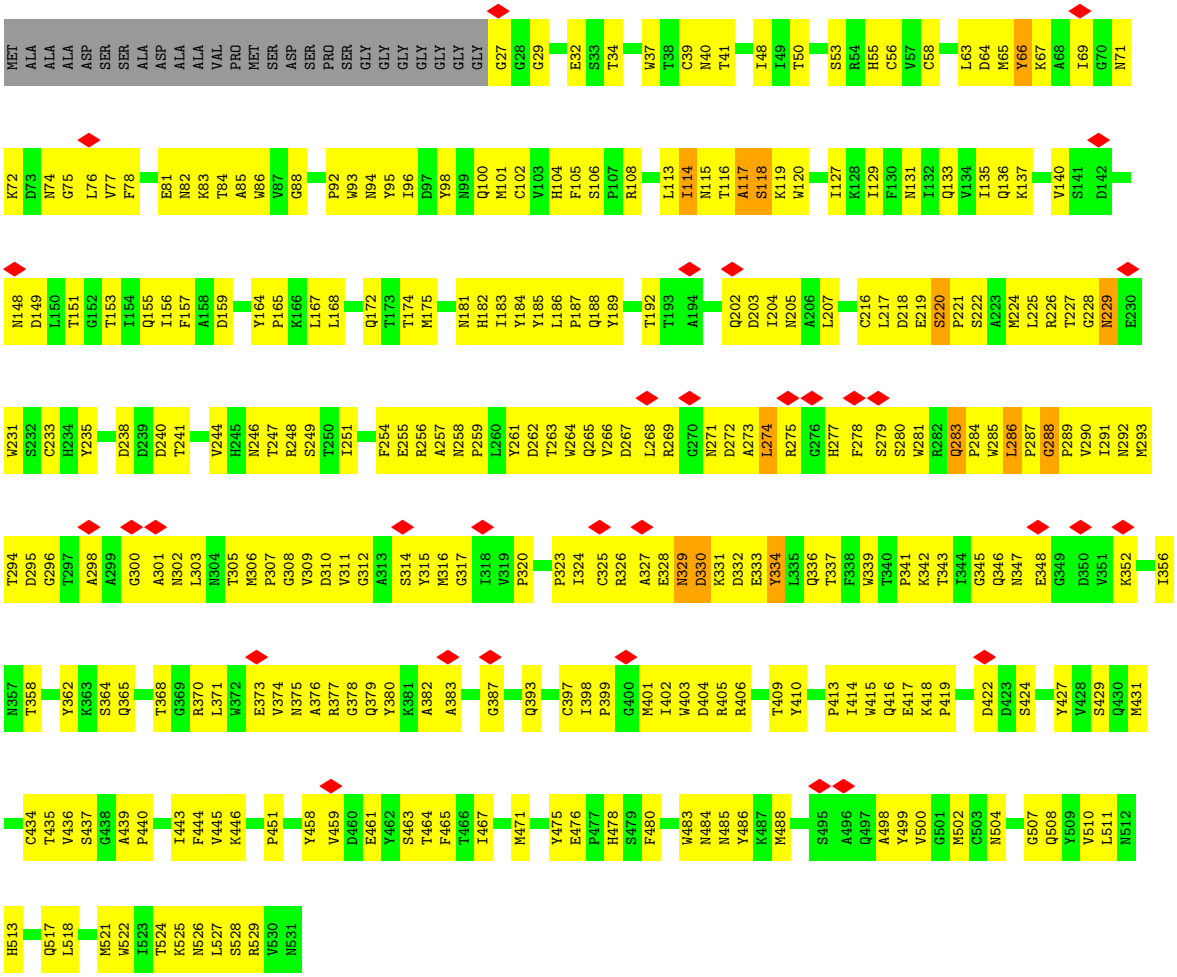
Chain T:





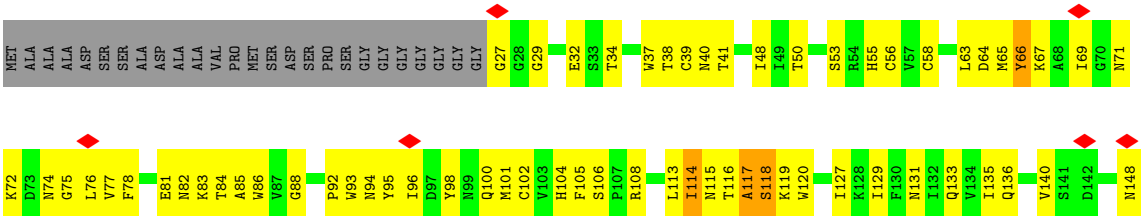
• Molecule 1: Major capsid protein

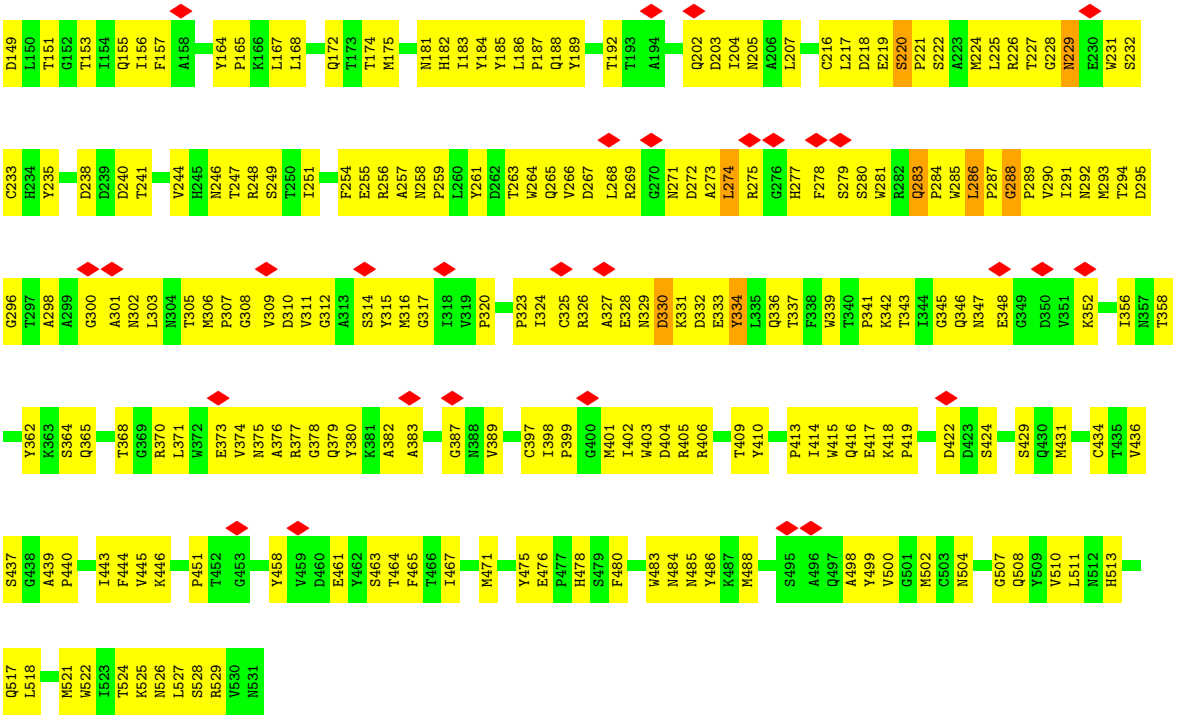
Chain U:



• Molecule 1: Major capsid protein

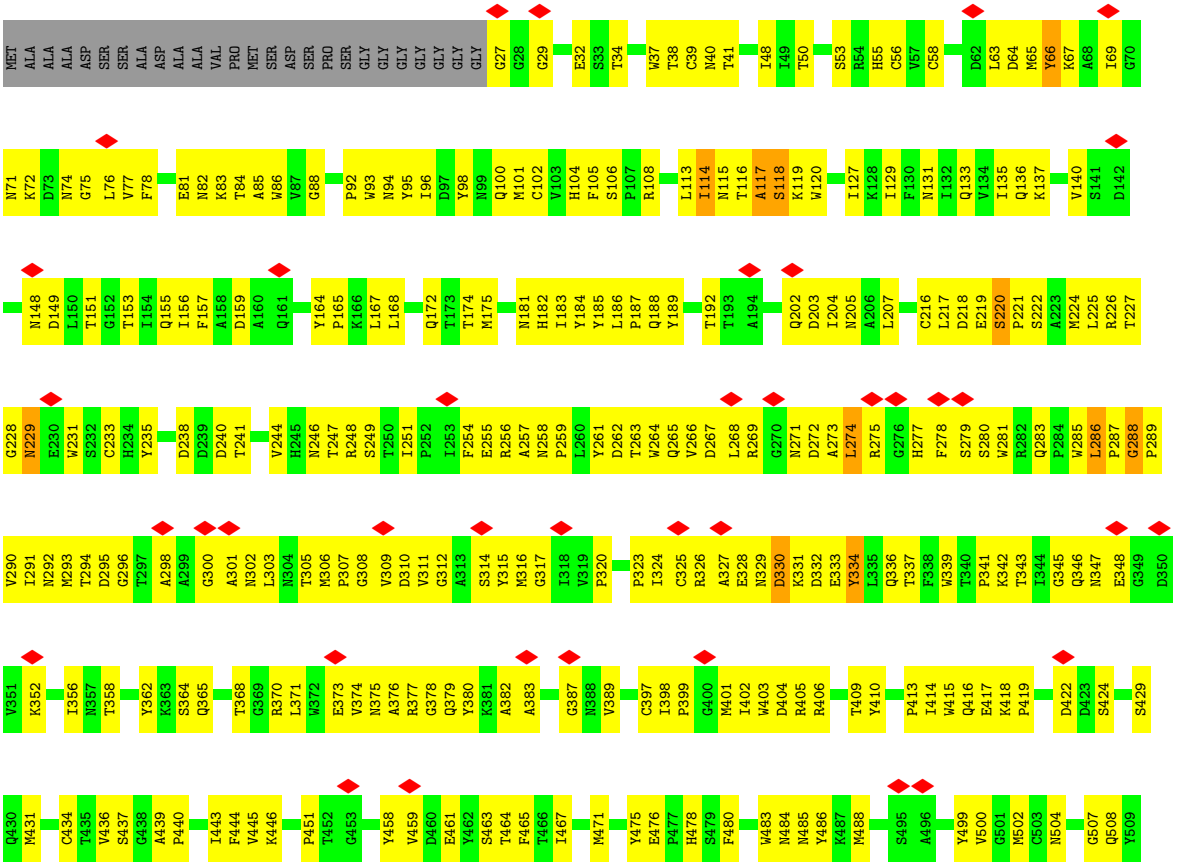
Chain V:

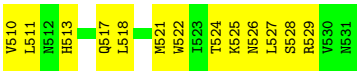




• Molecule 1: Major capsid protein

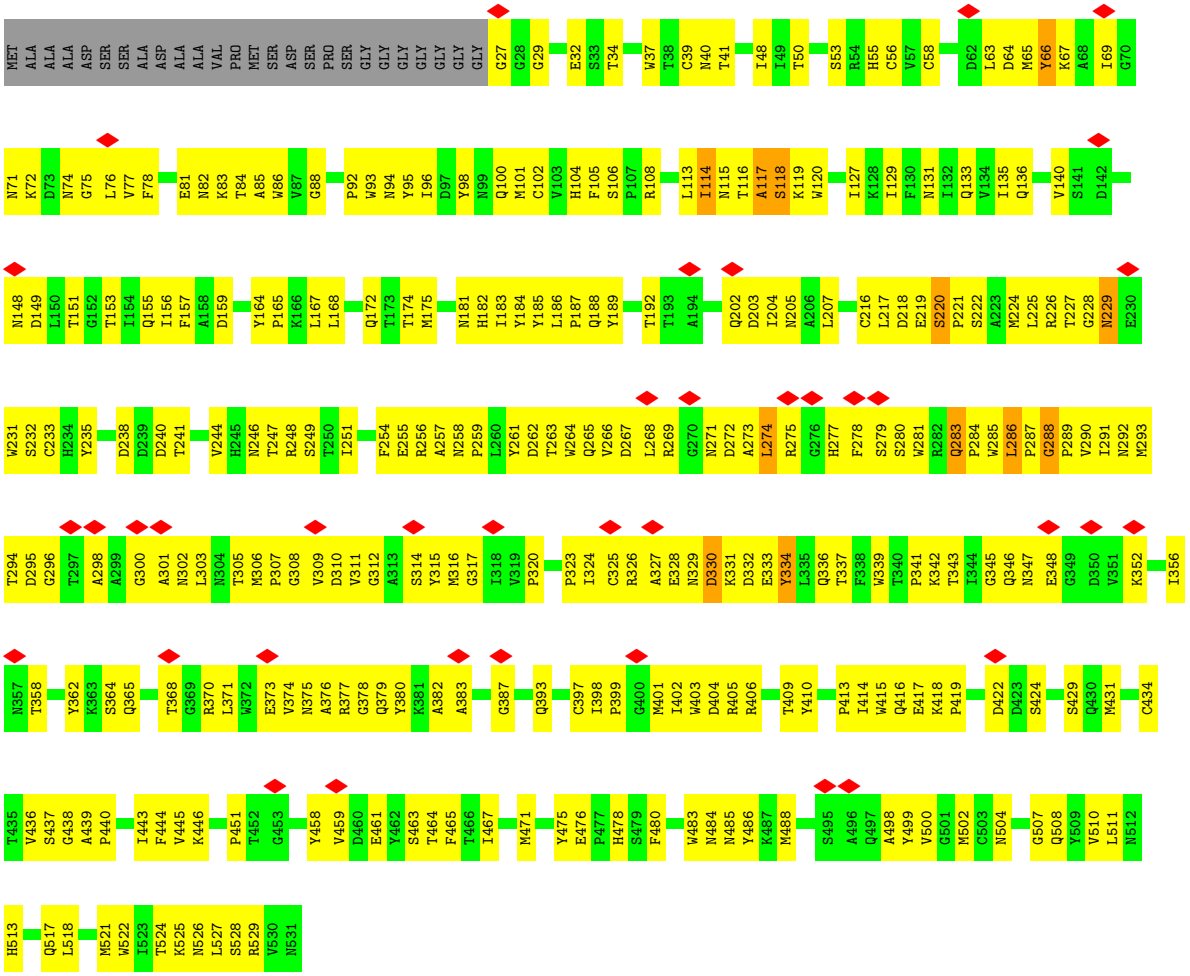
Chain W:





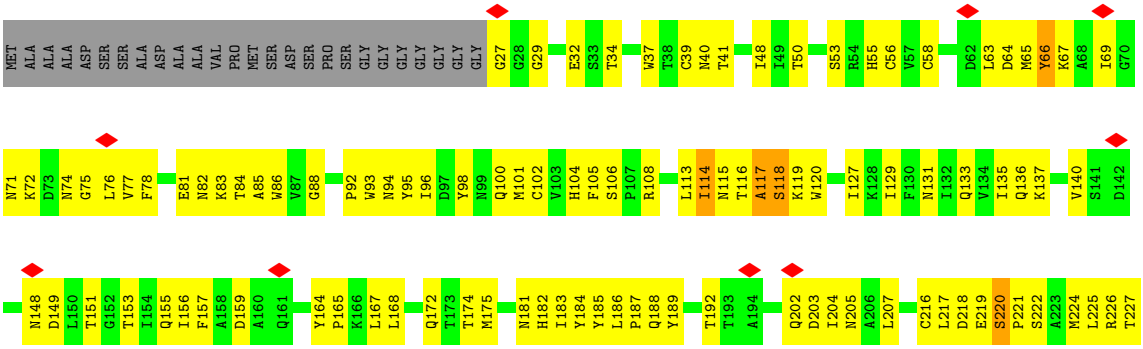
• Molecule 1: Major capsid protein

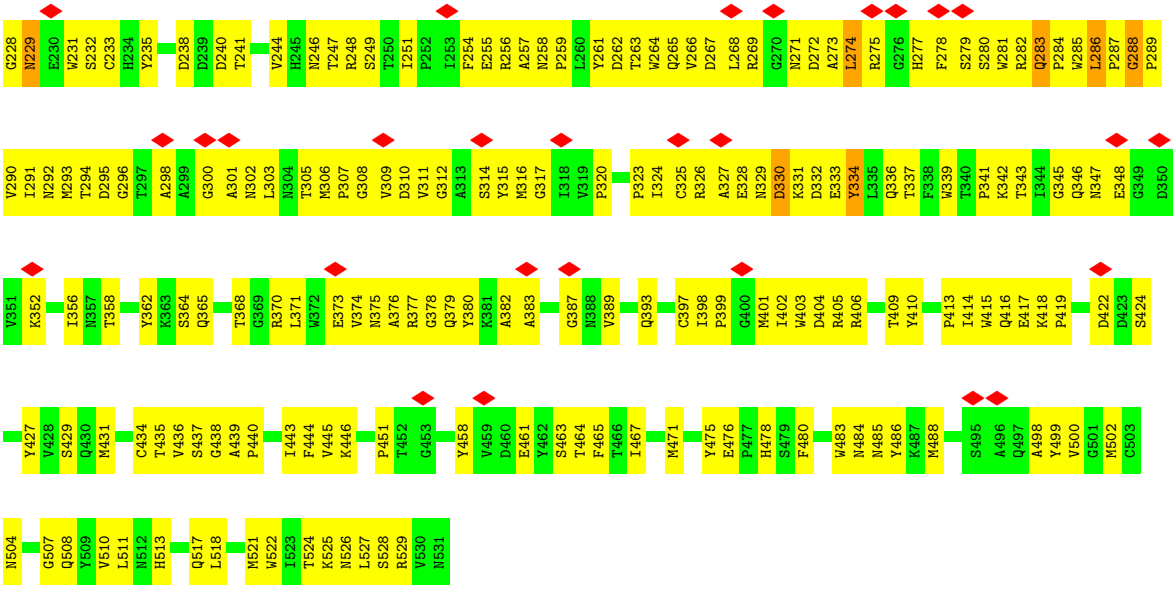
Chain X:



• Molecule 1: Major capsid protein

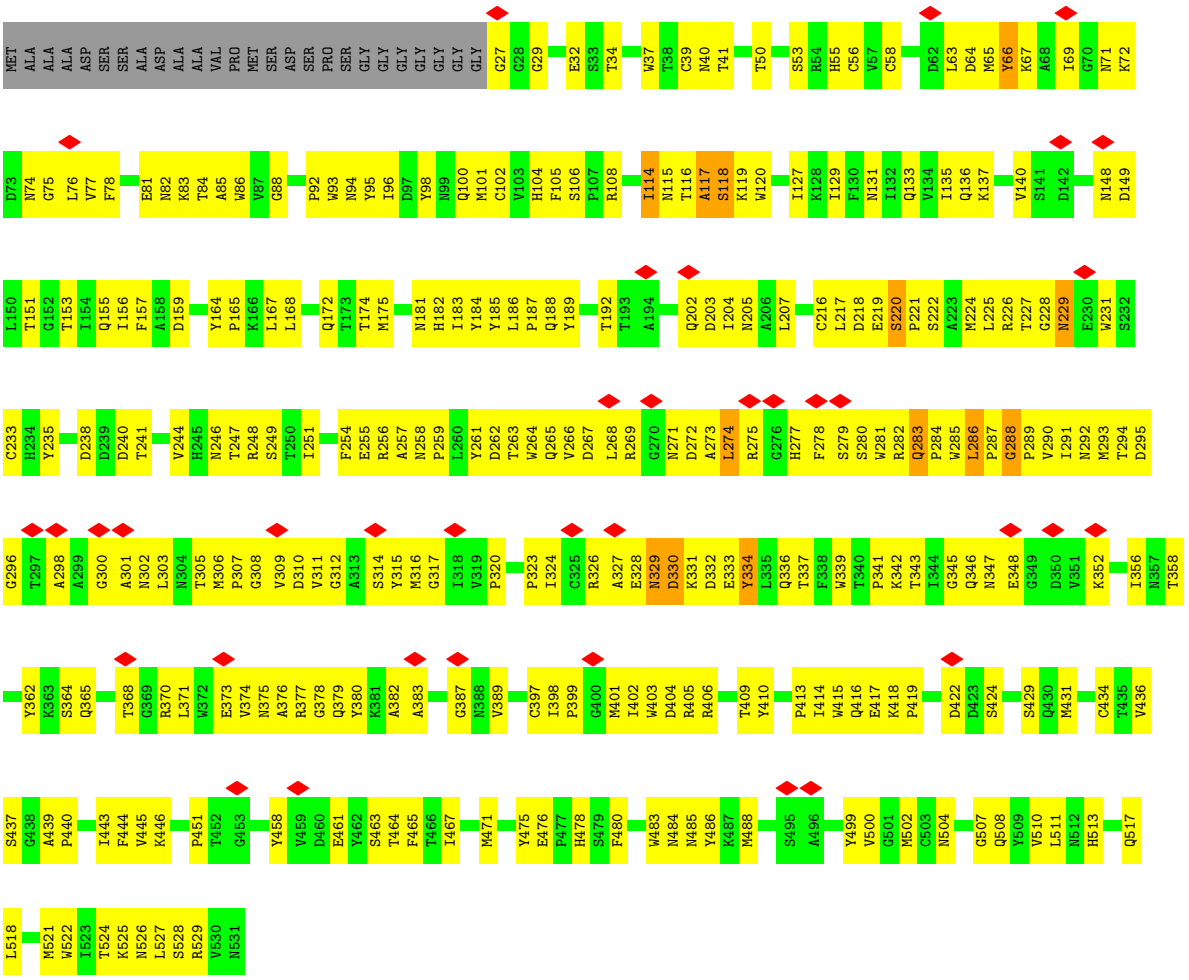
Chain Y:





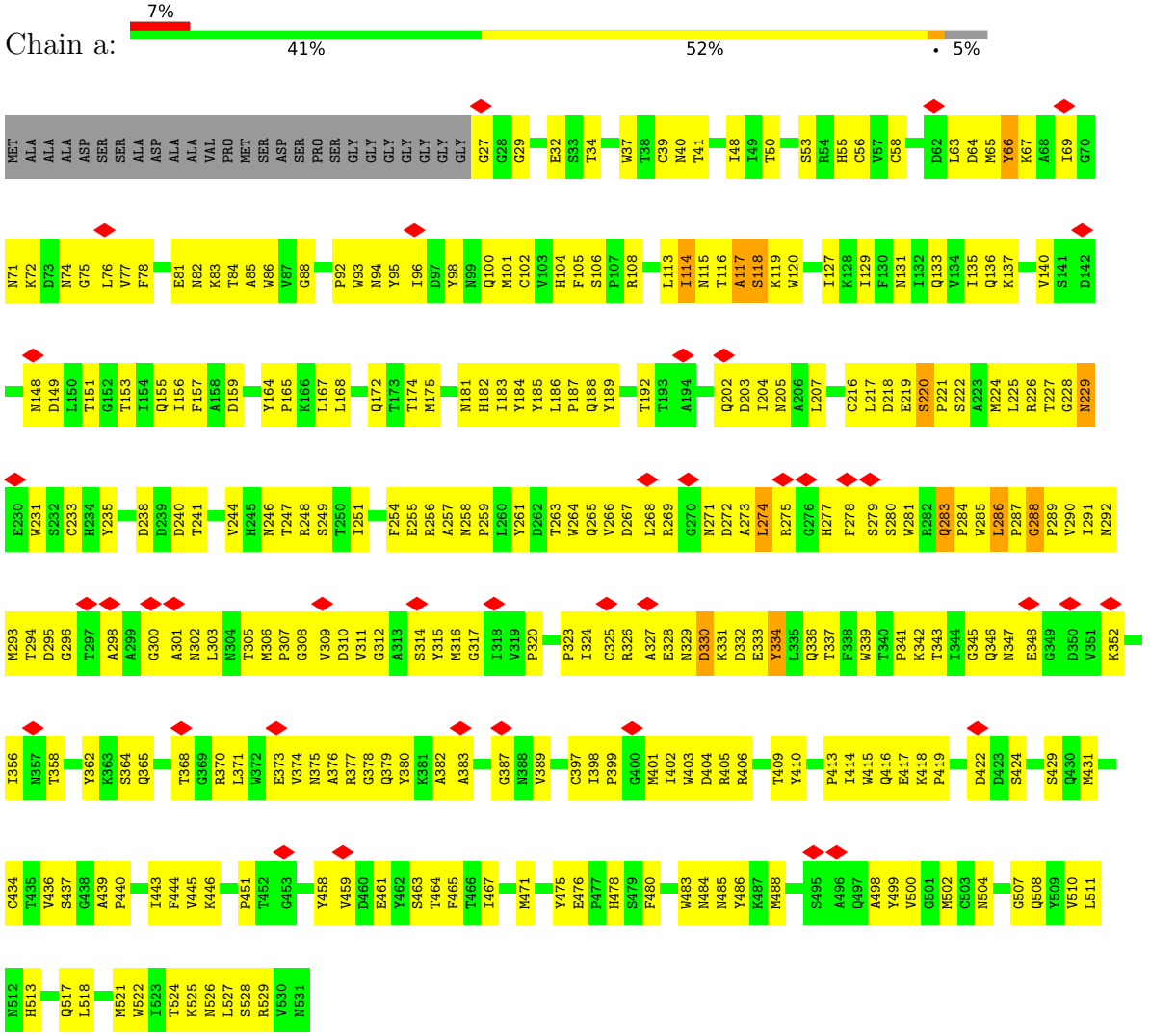
• Molecule 1: Major capsid protein

Chain Z:



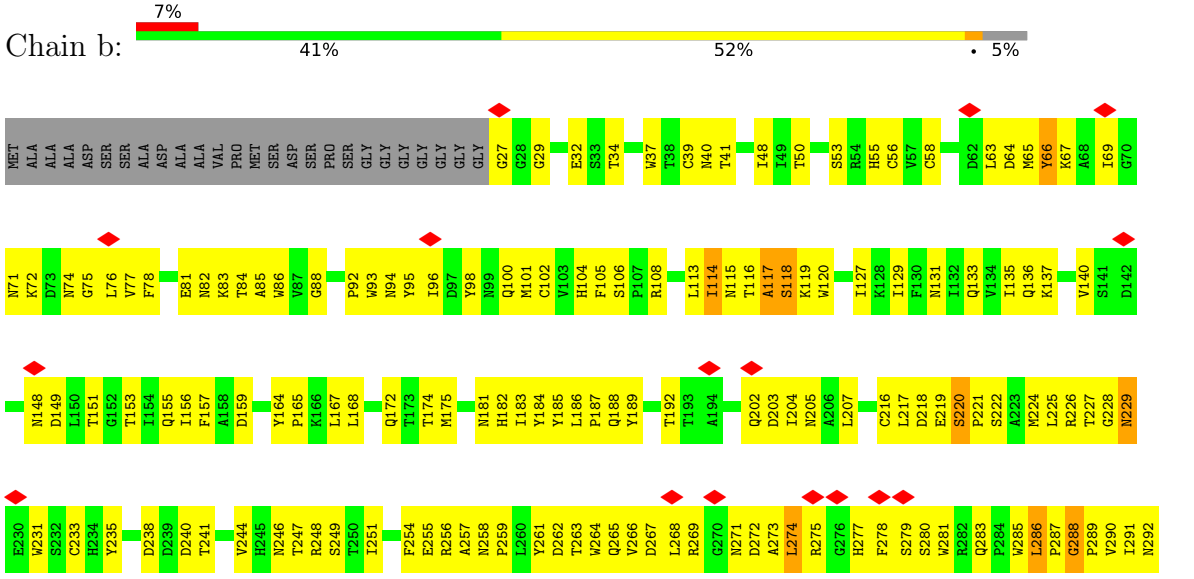
• Molecule 1: Major capsid protein

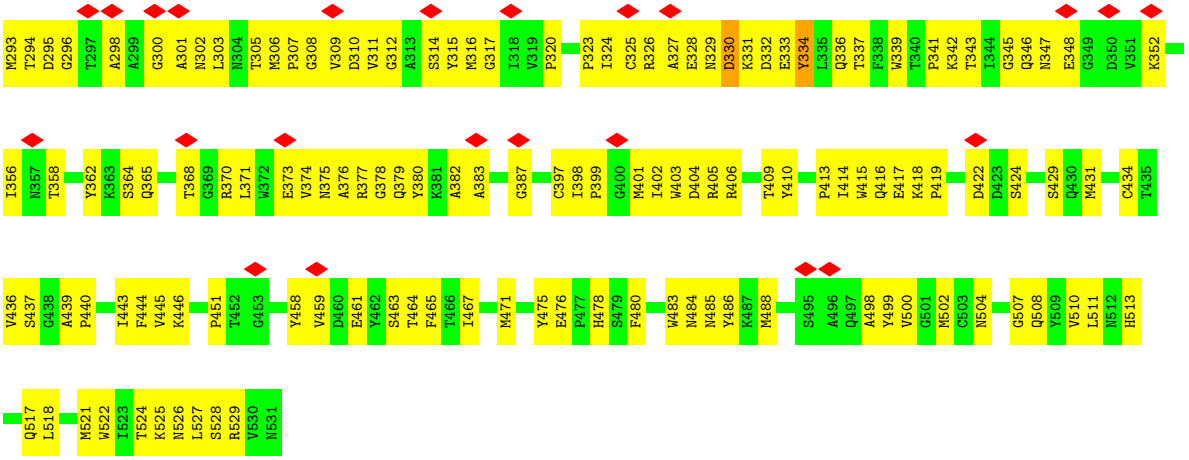
Chain a:



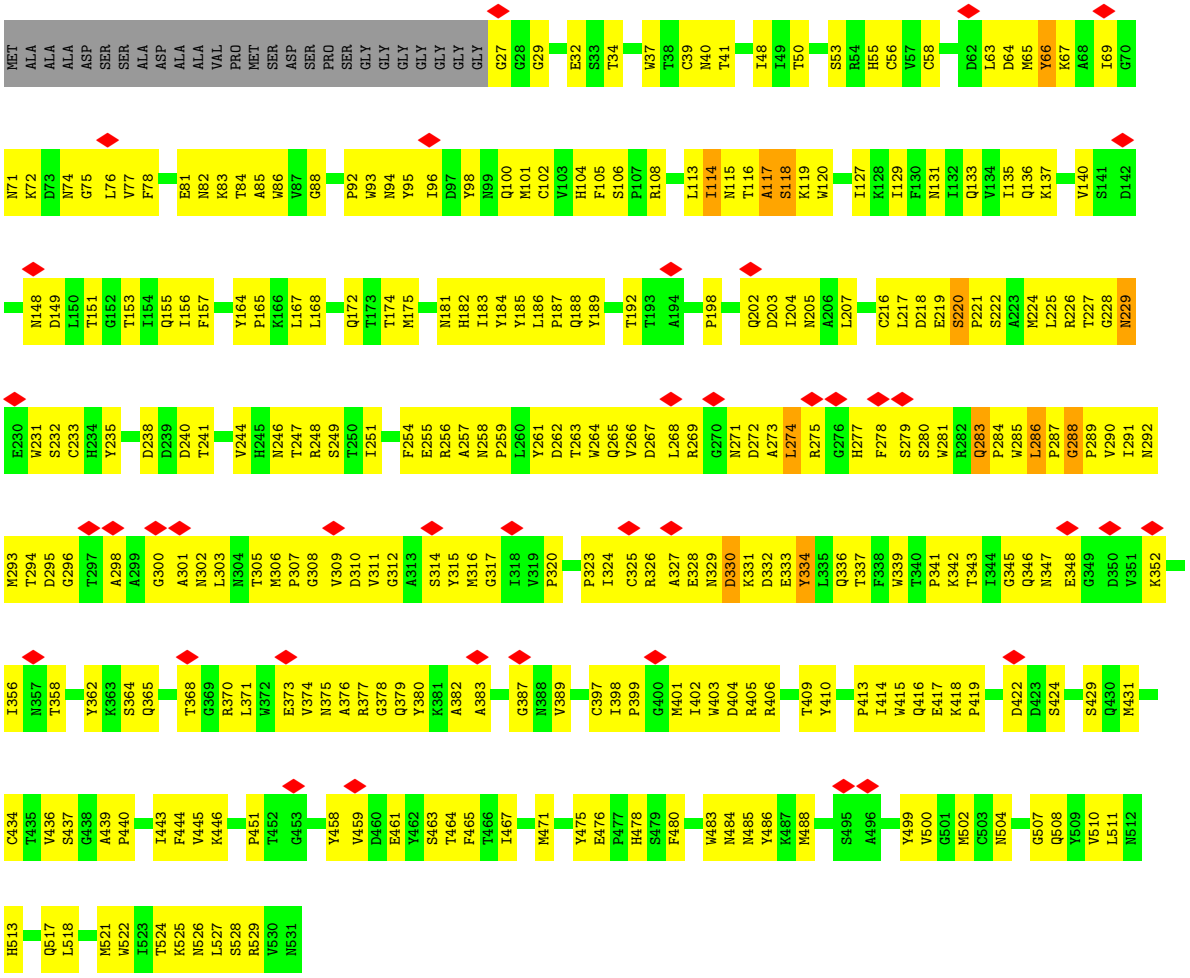
• Molecule 1: Major capsid protein

Chain b:

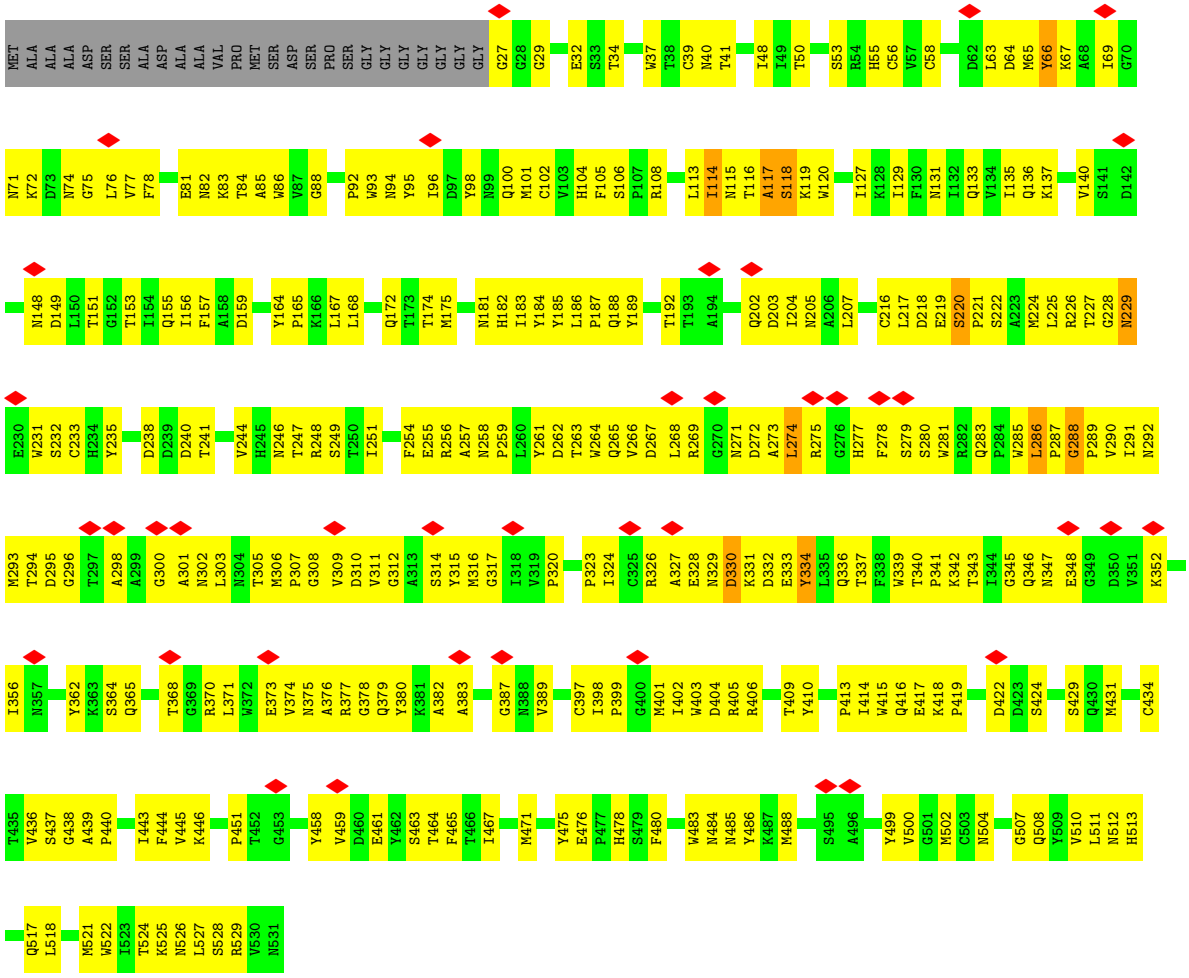




• Molecule 1: Major capsid protein

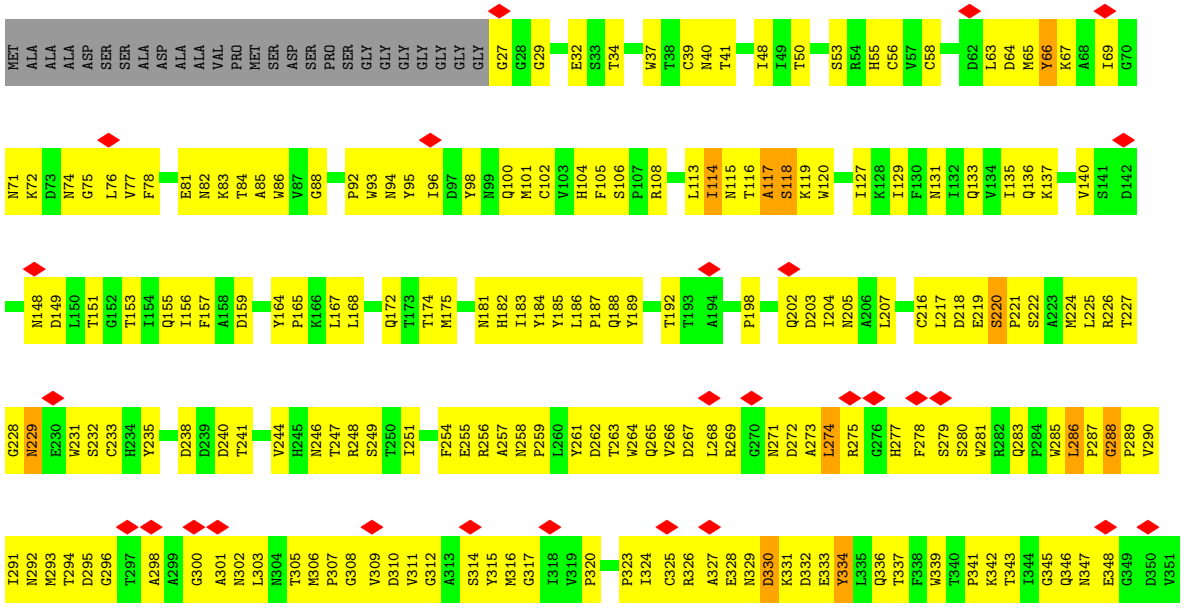


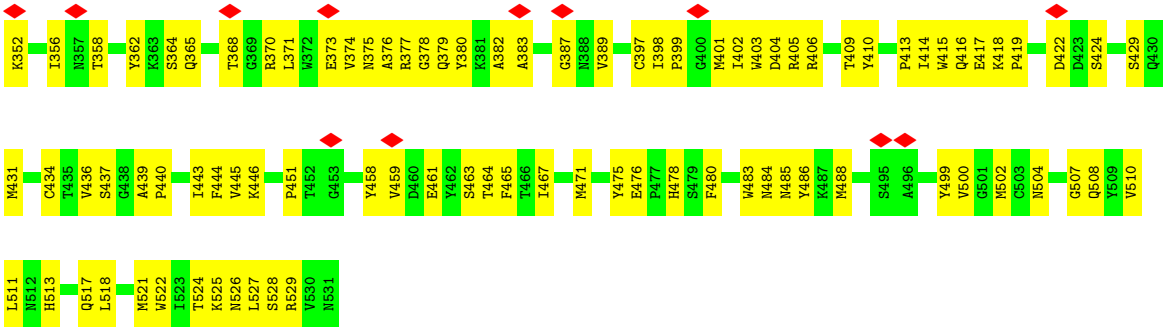
• Molecule 1: Major capsid protein



• Molecule 1: Major capsid protein

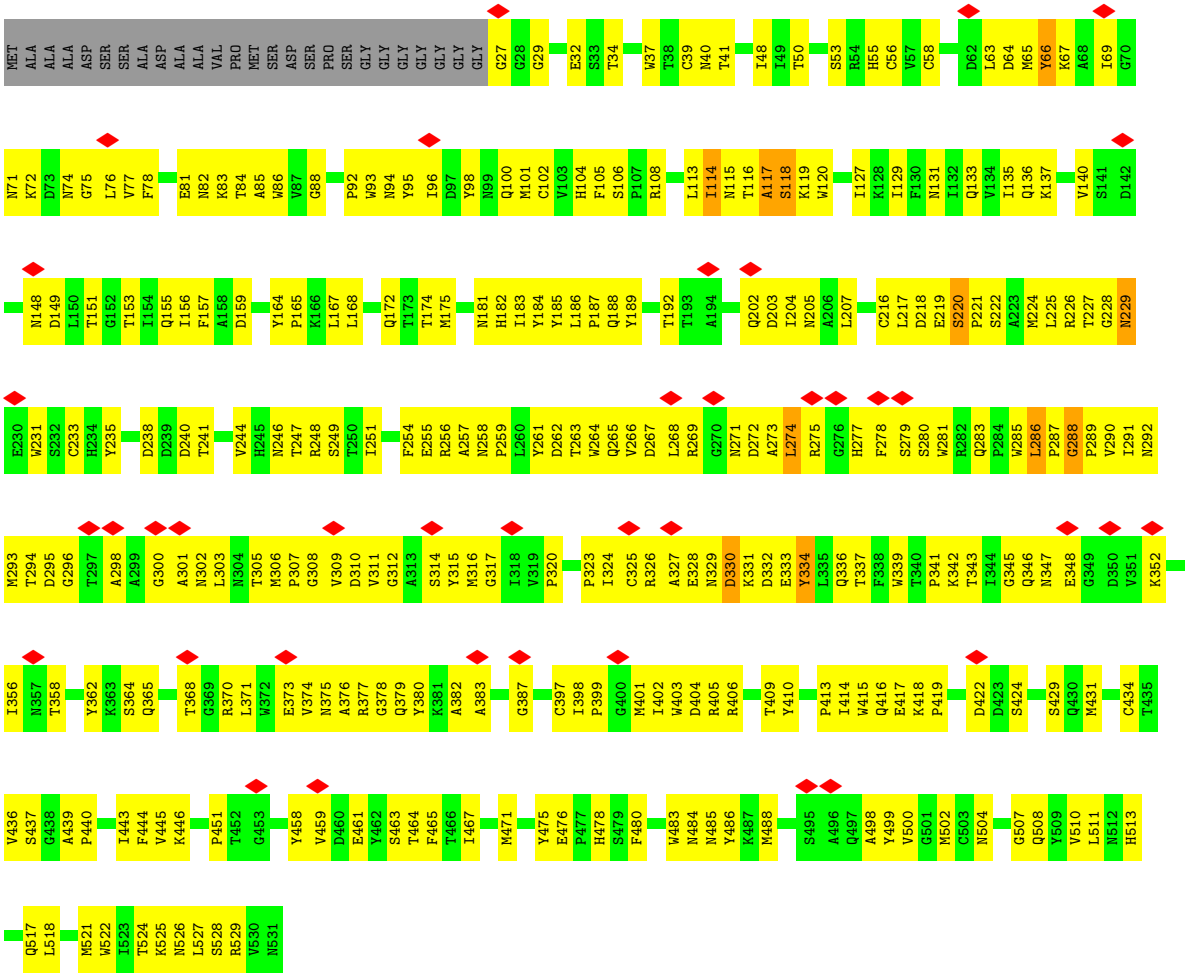
Chain e:





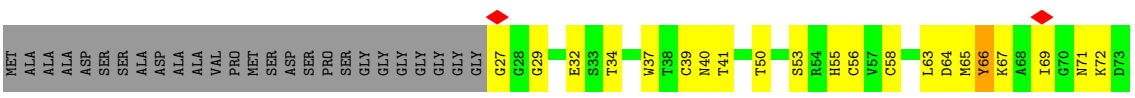
• Molecule 1: Major capsid protein

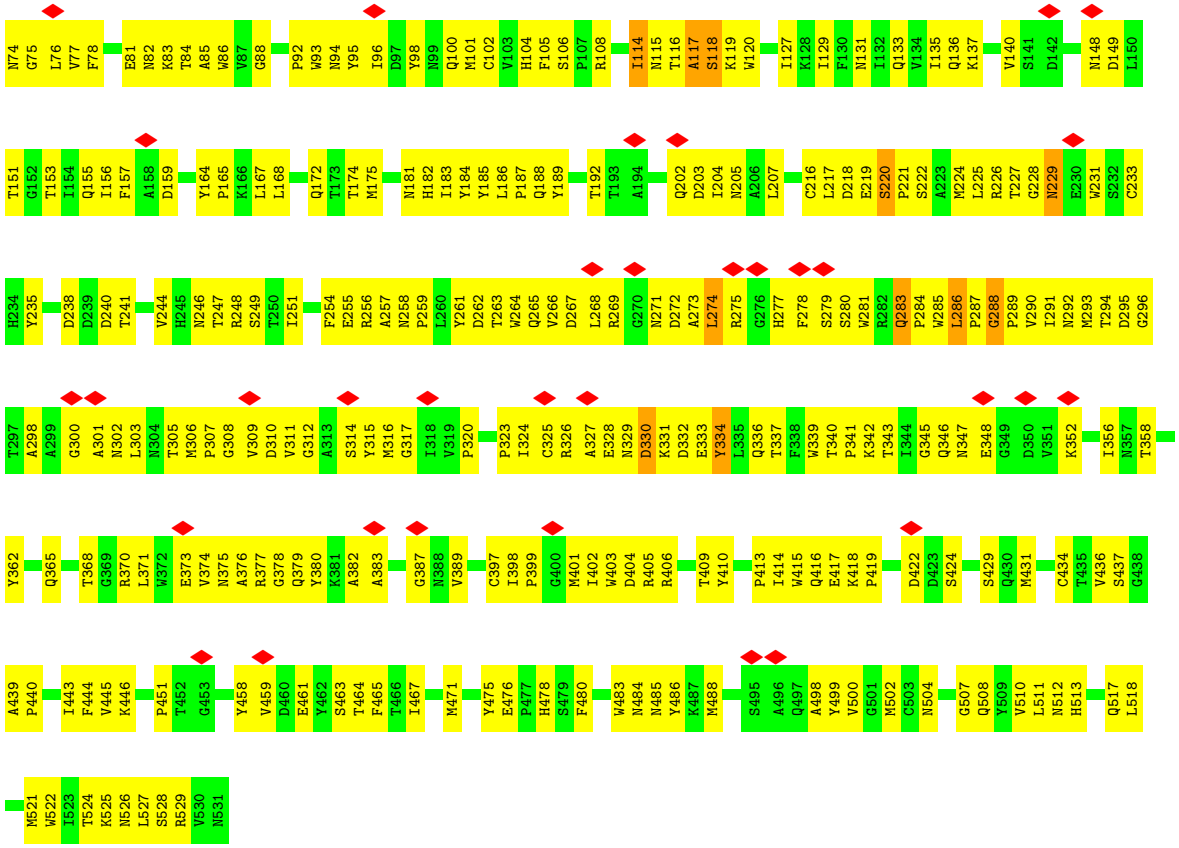
Chain f:



• Molecule 1: Major capsid protein

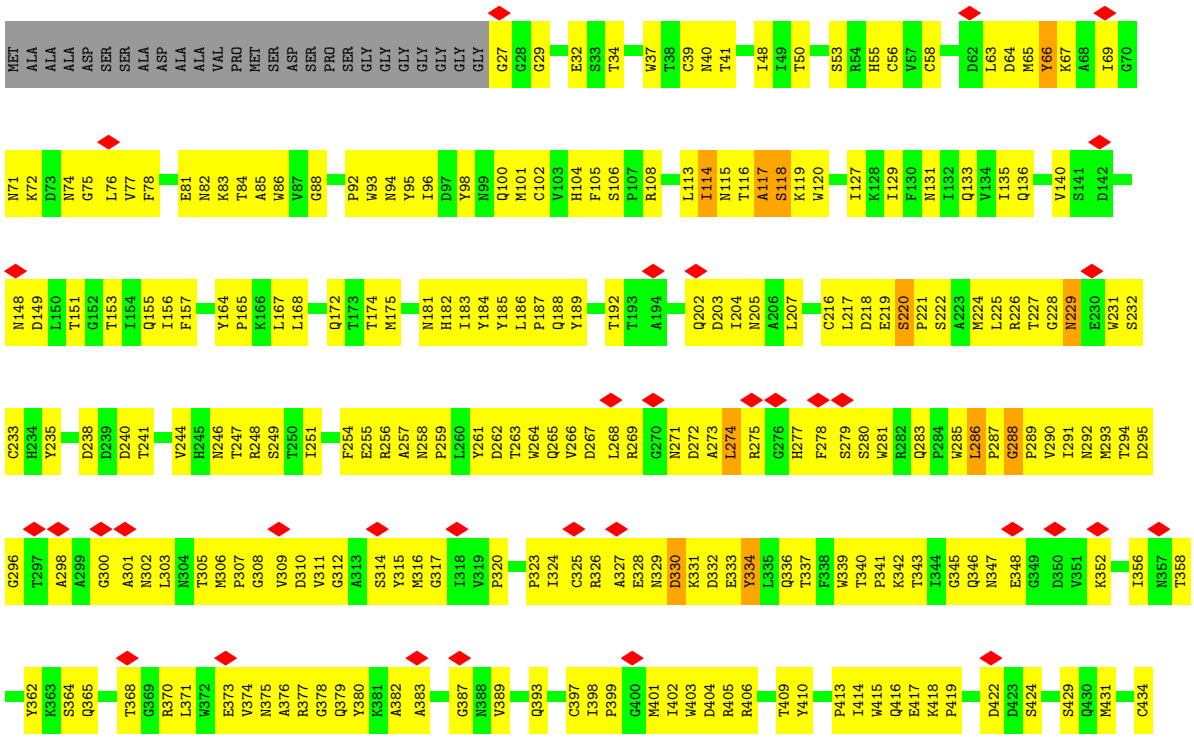
Chain g:



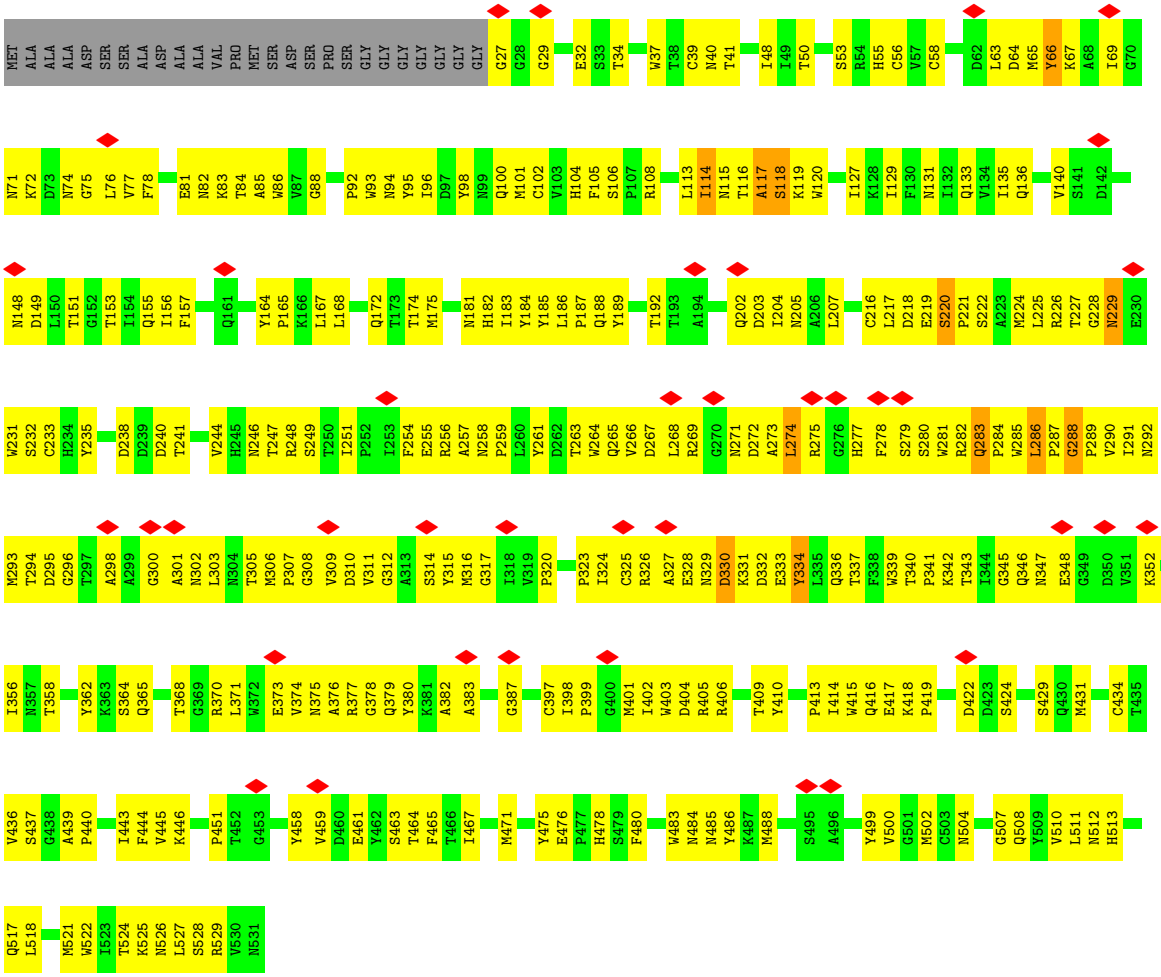


• Molecule 1: Major capsid protein

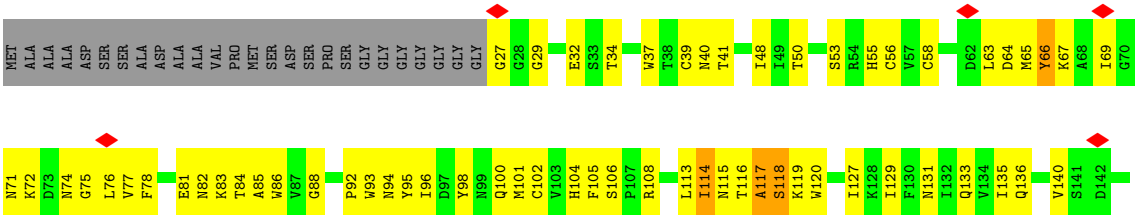
Chain h:

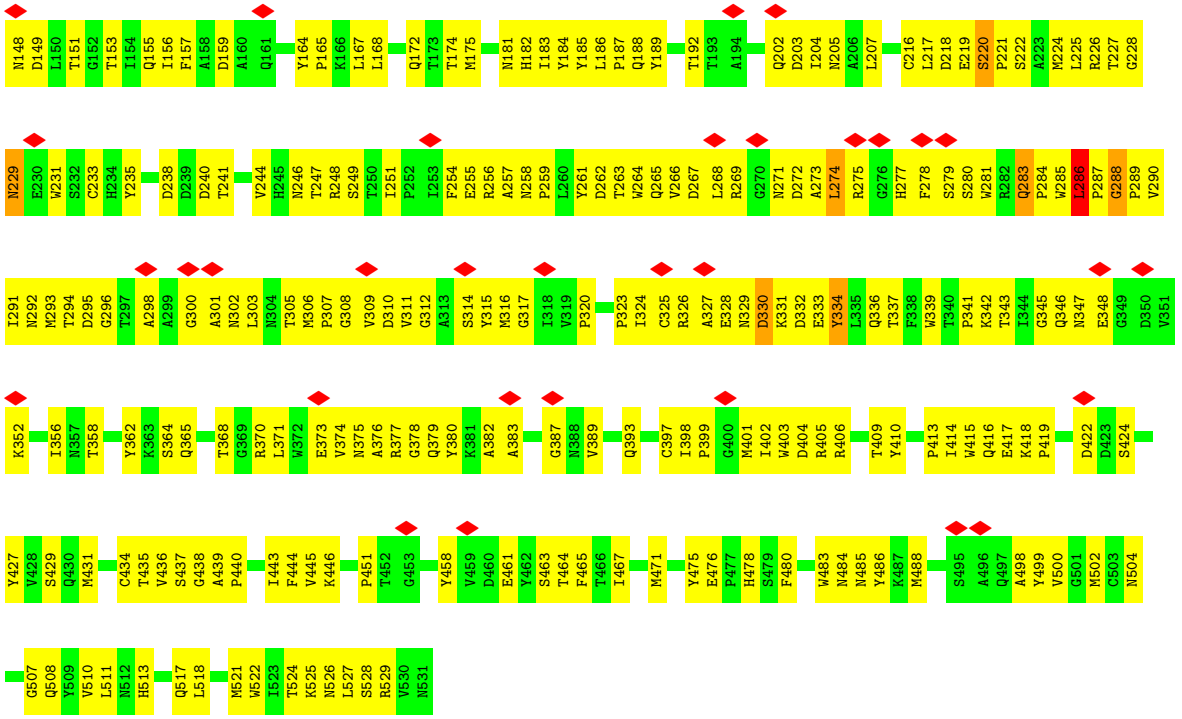


• Molecule 1: Major capsid protein



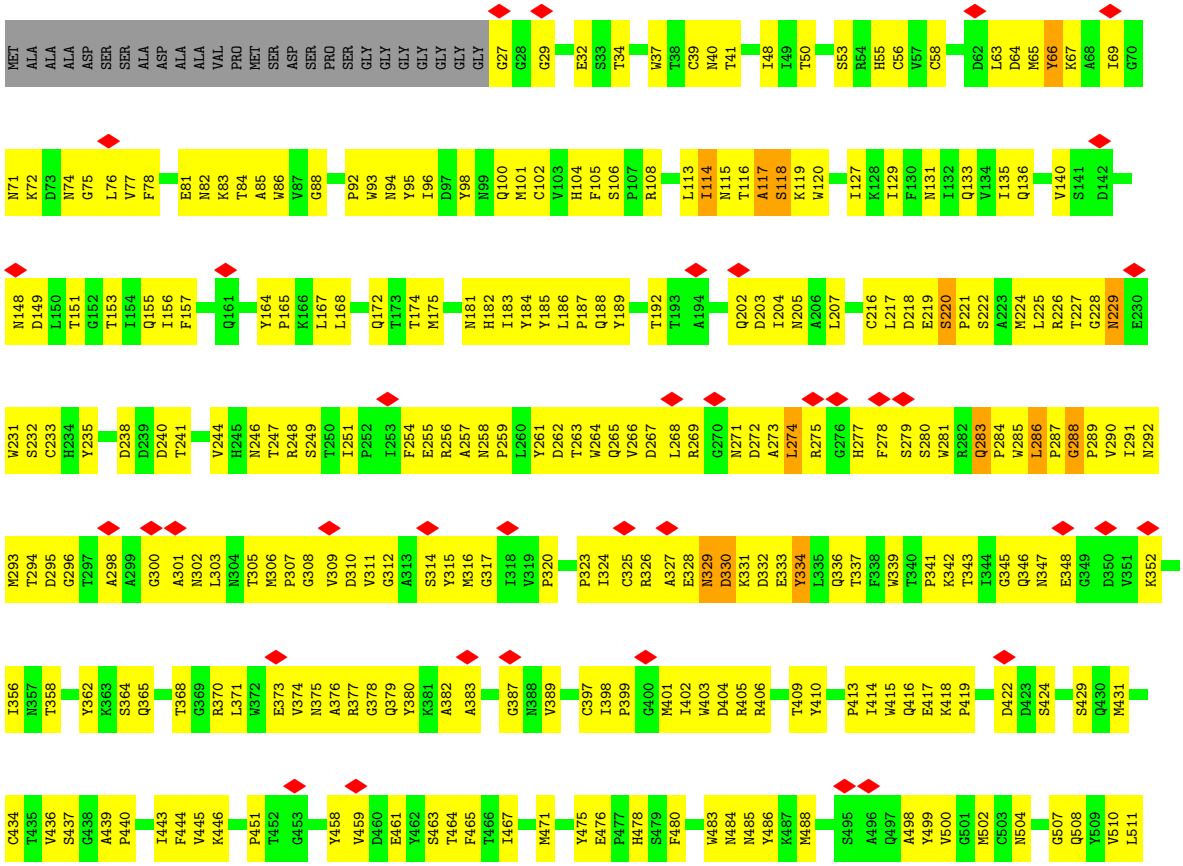
• Molecule 1: Major capsid protein





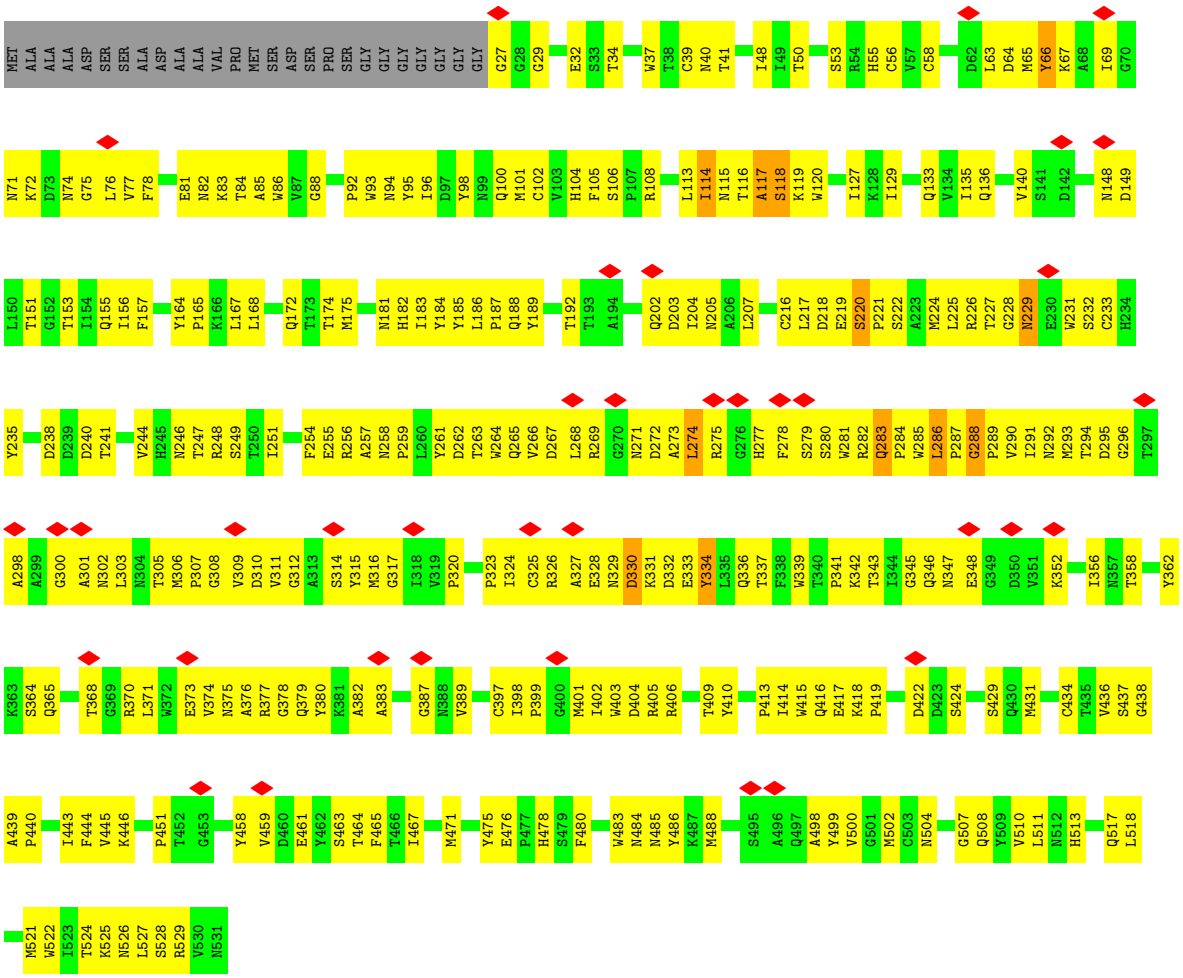
• Molecule 1: Major capsid protein

Chain k:



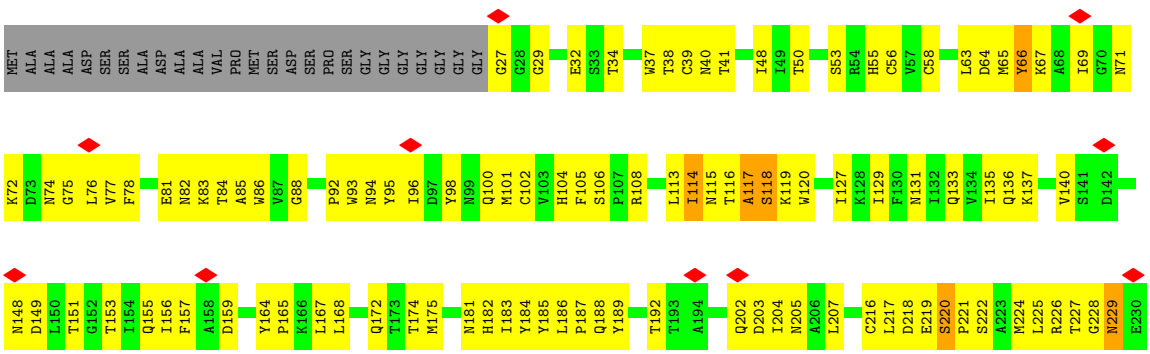
• Molecule 1: Major capsid protein

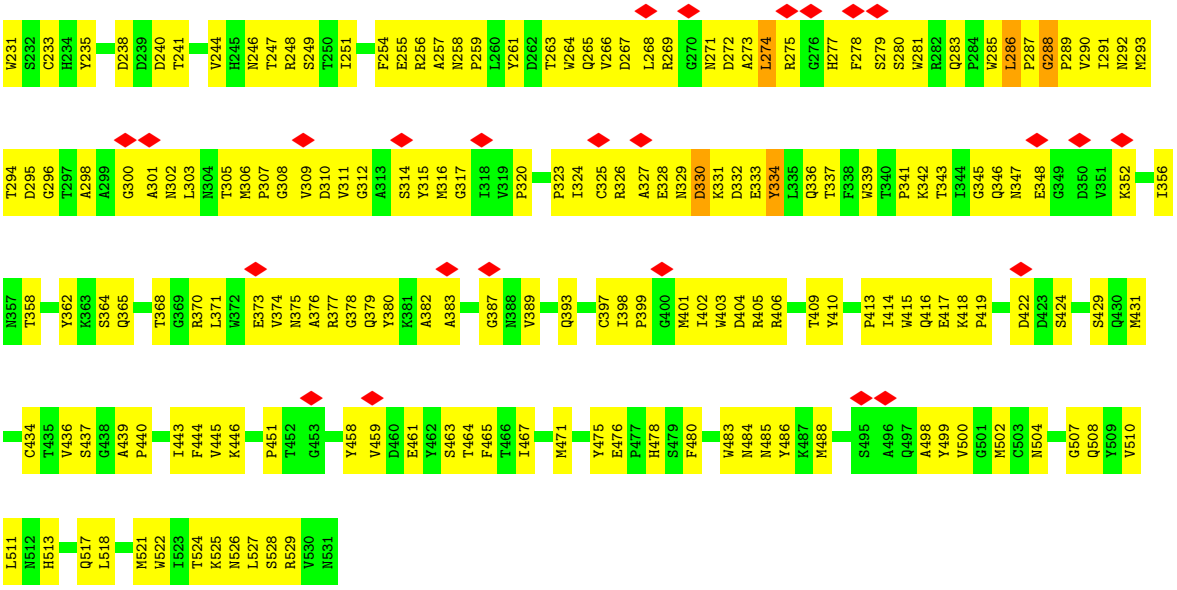
Chain l:



• Molecule 1: Major capsid protein

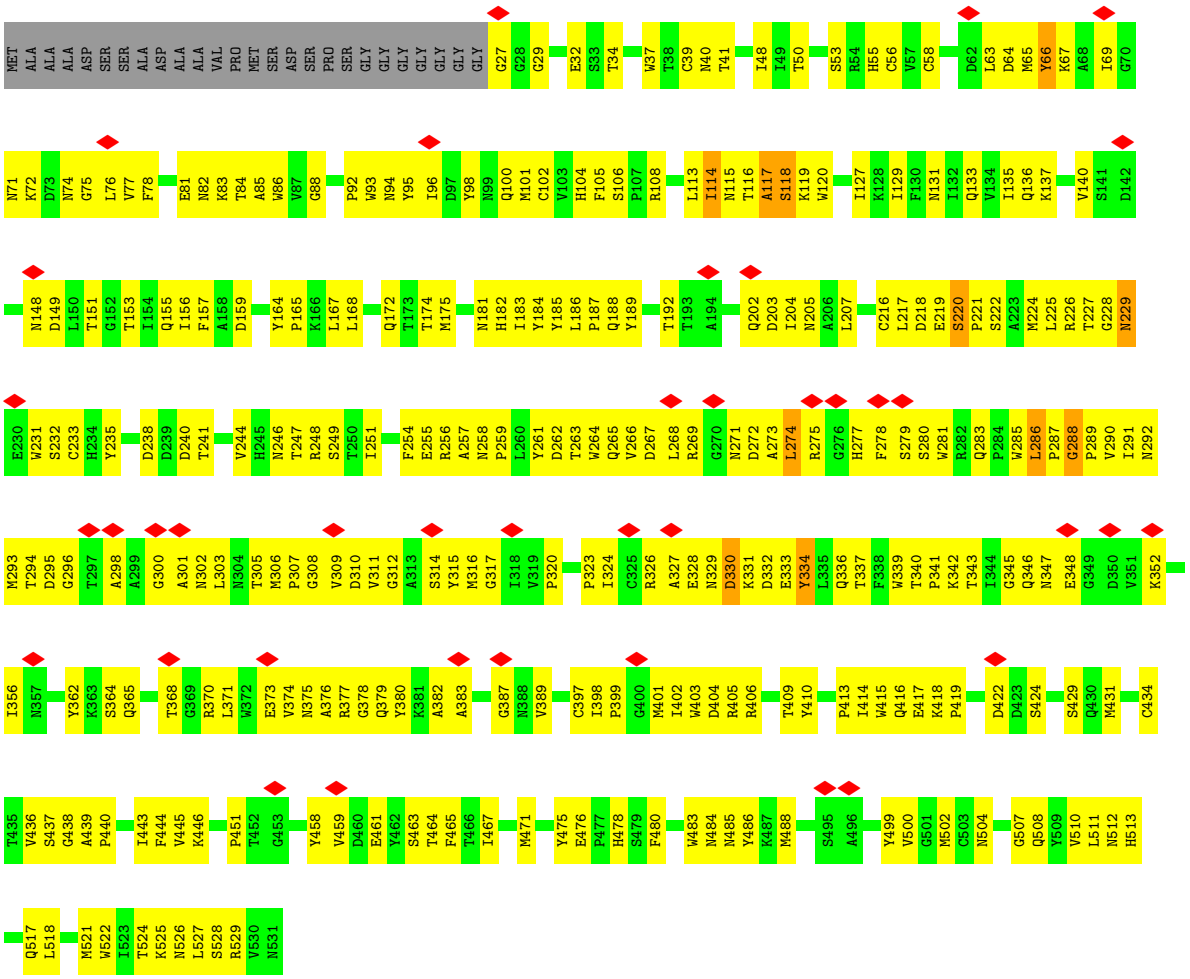
Chain m:





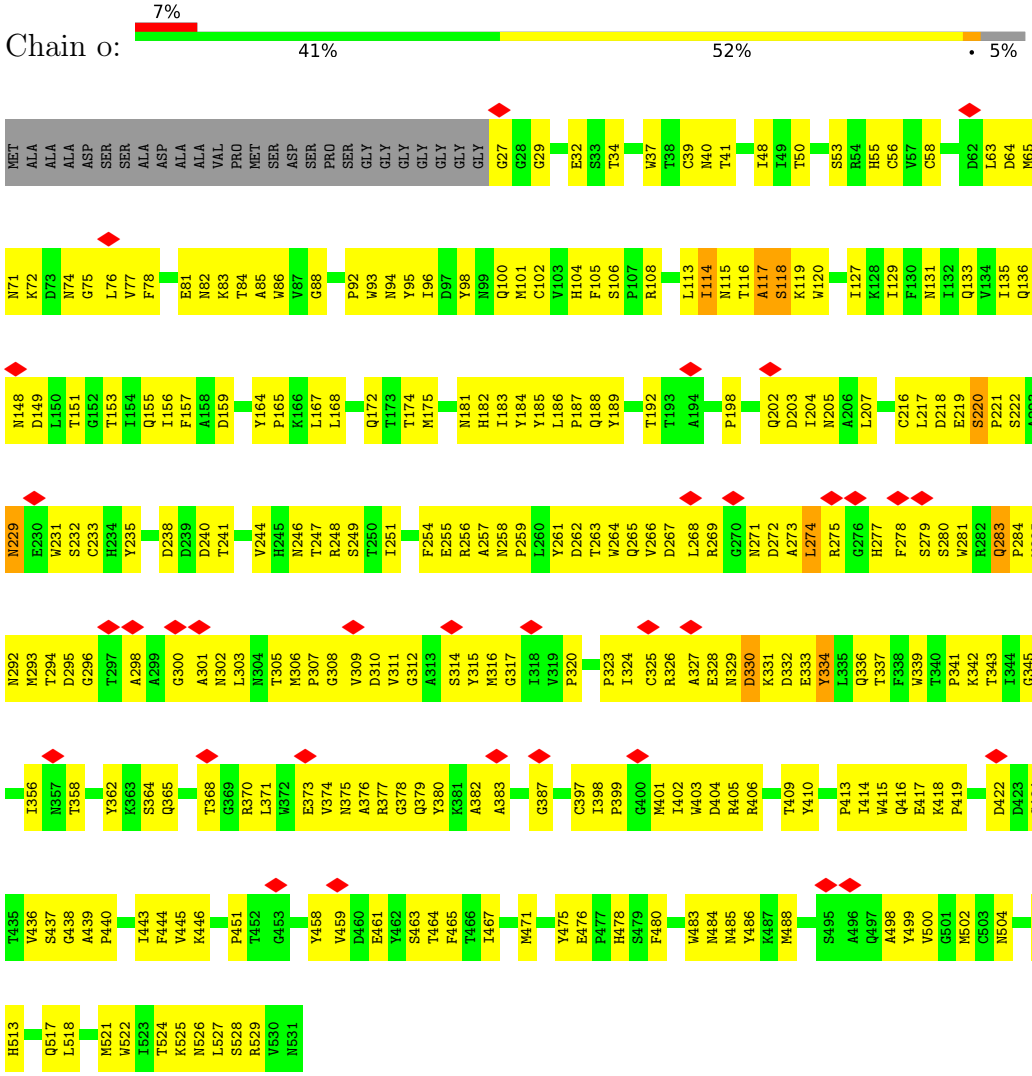
• Molecule 1: Major capsid protein

Chain n:



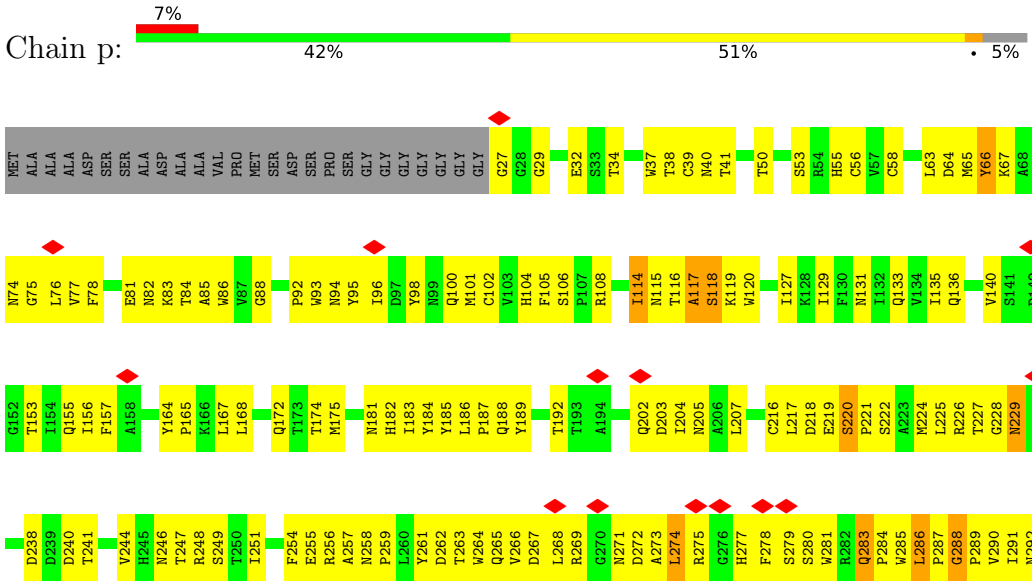
• Molecule 1: Major capsid protein

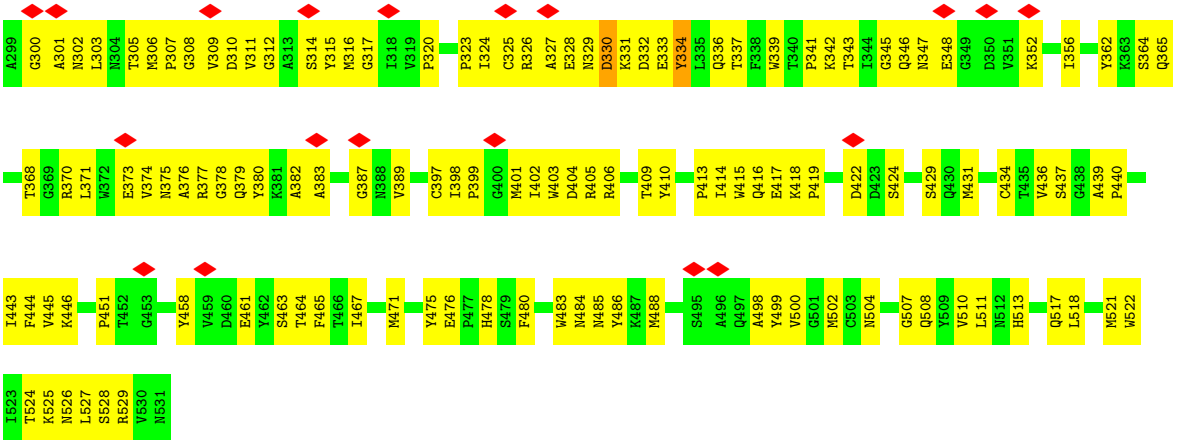
Chain o:



• Molecule 1: Major capsid protein

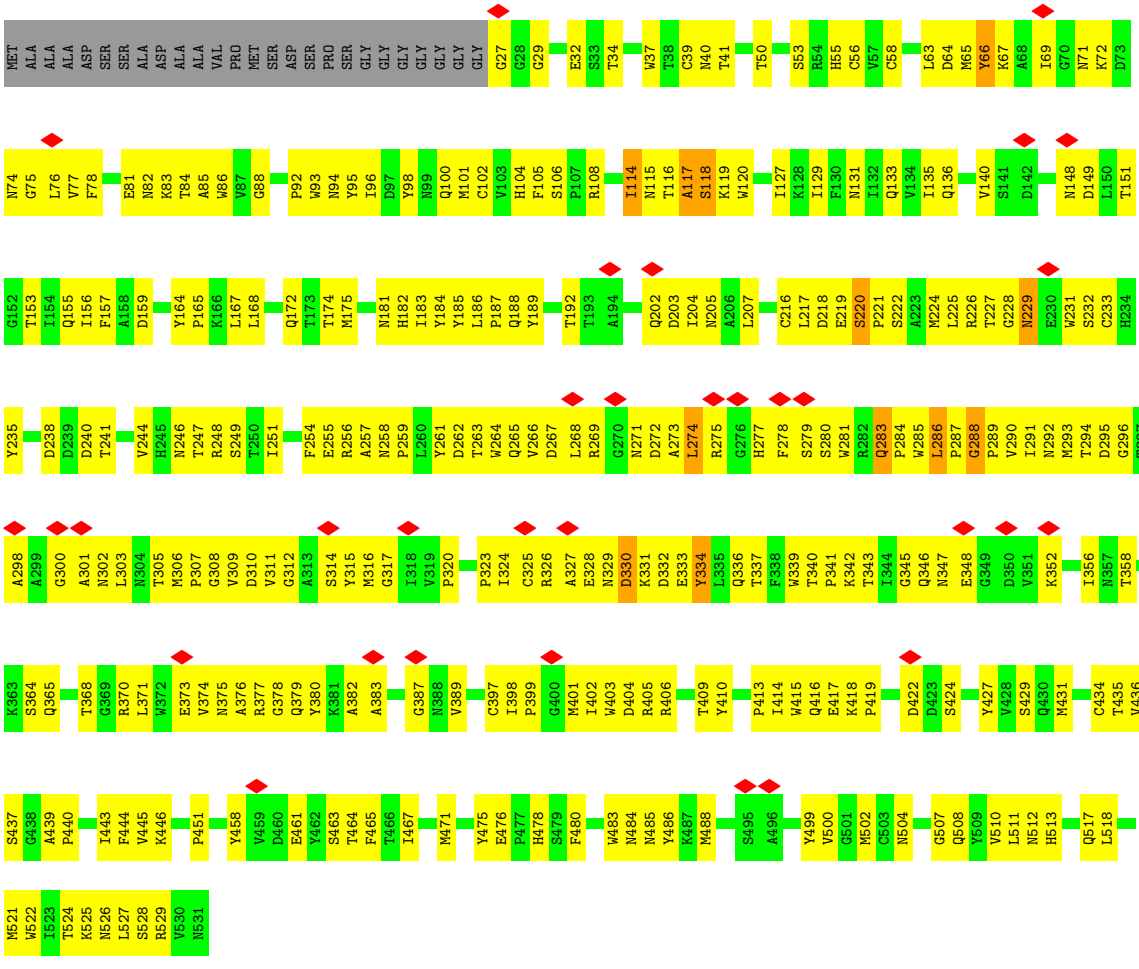
Chain p:





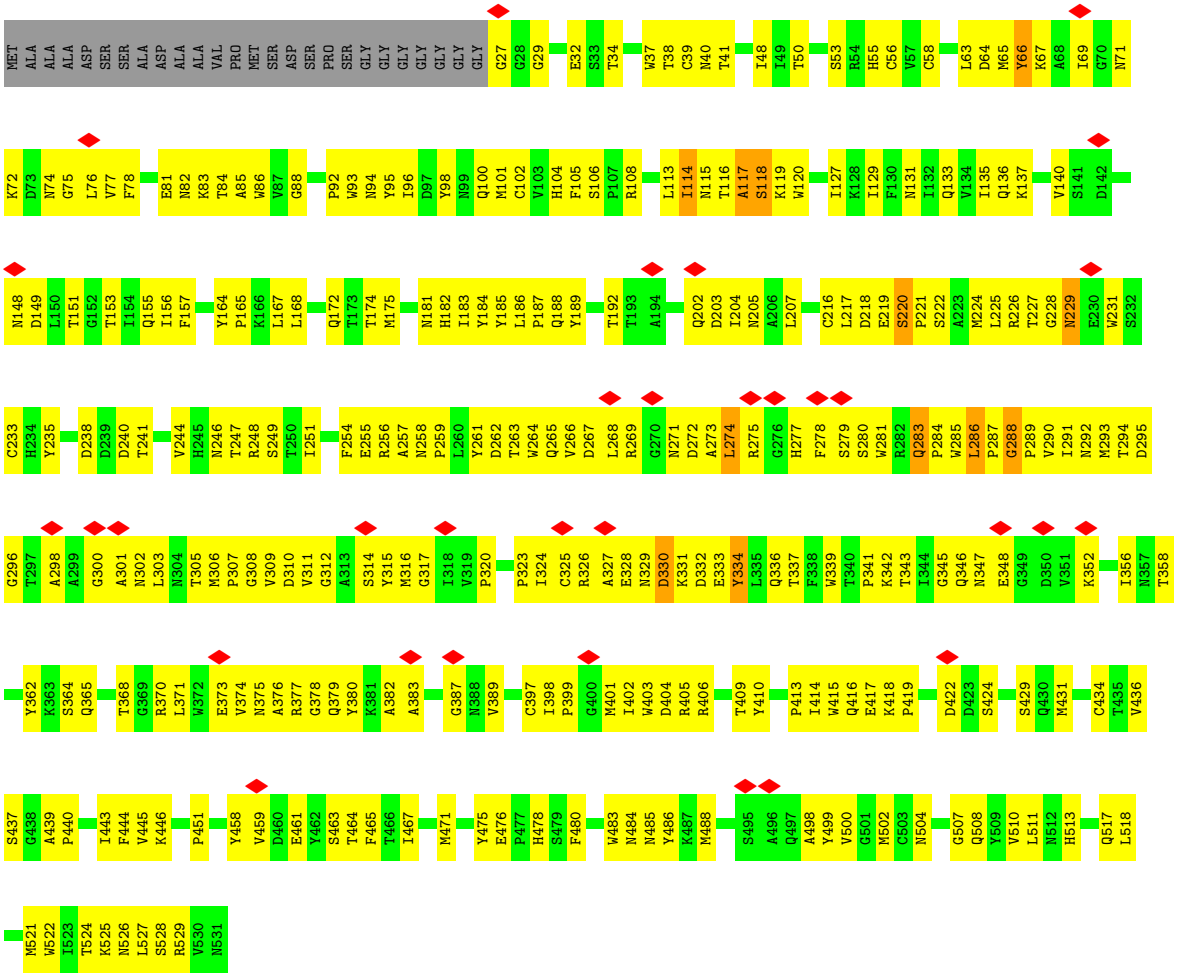
• Molecule 1: Major capsid protein

Chain q:



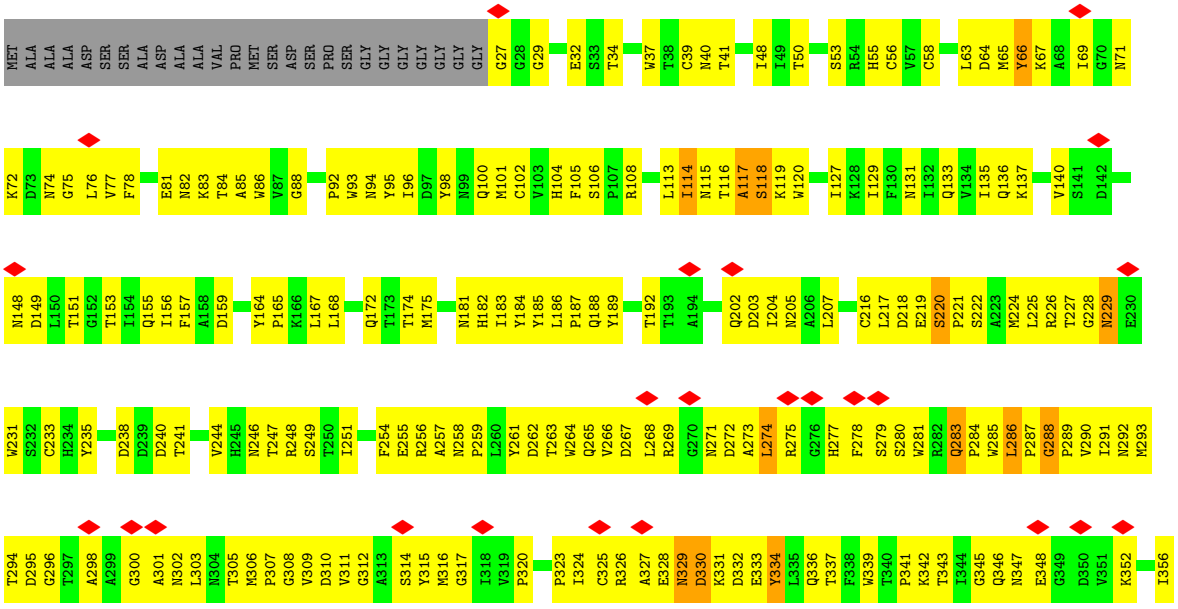
• Molecule 1: Major capsid protein

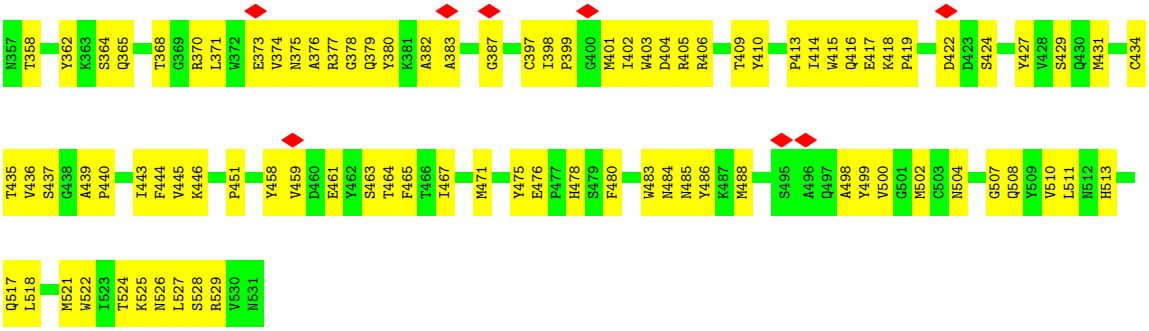
Chain r:



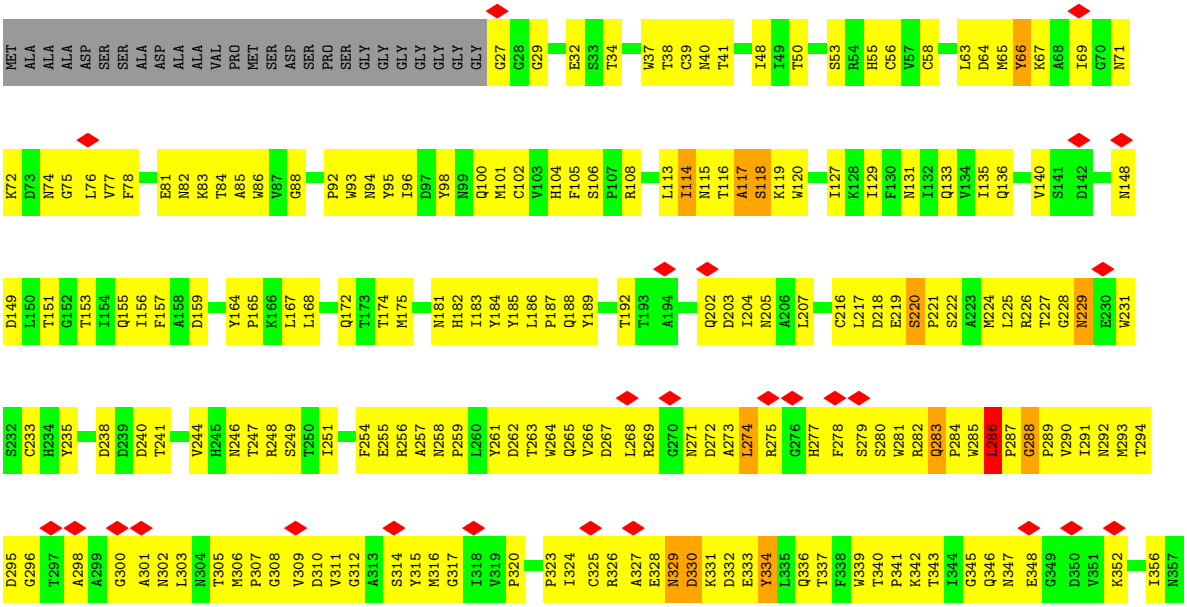
• Molecule 1: Major capsid protein

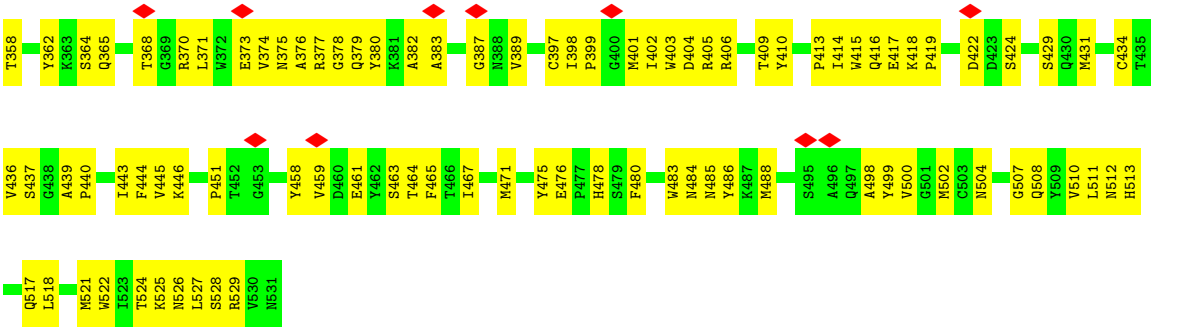
Chain s:



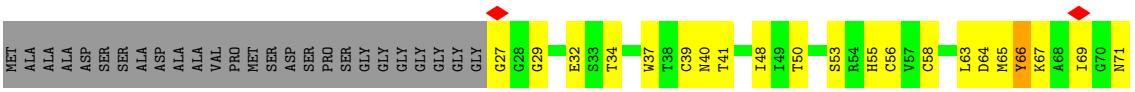


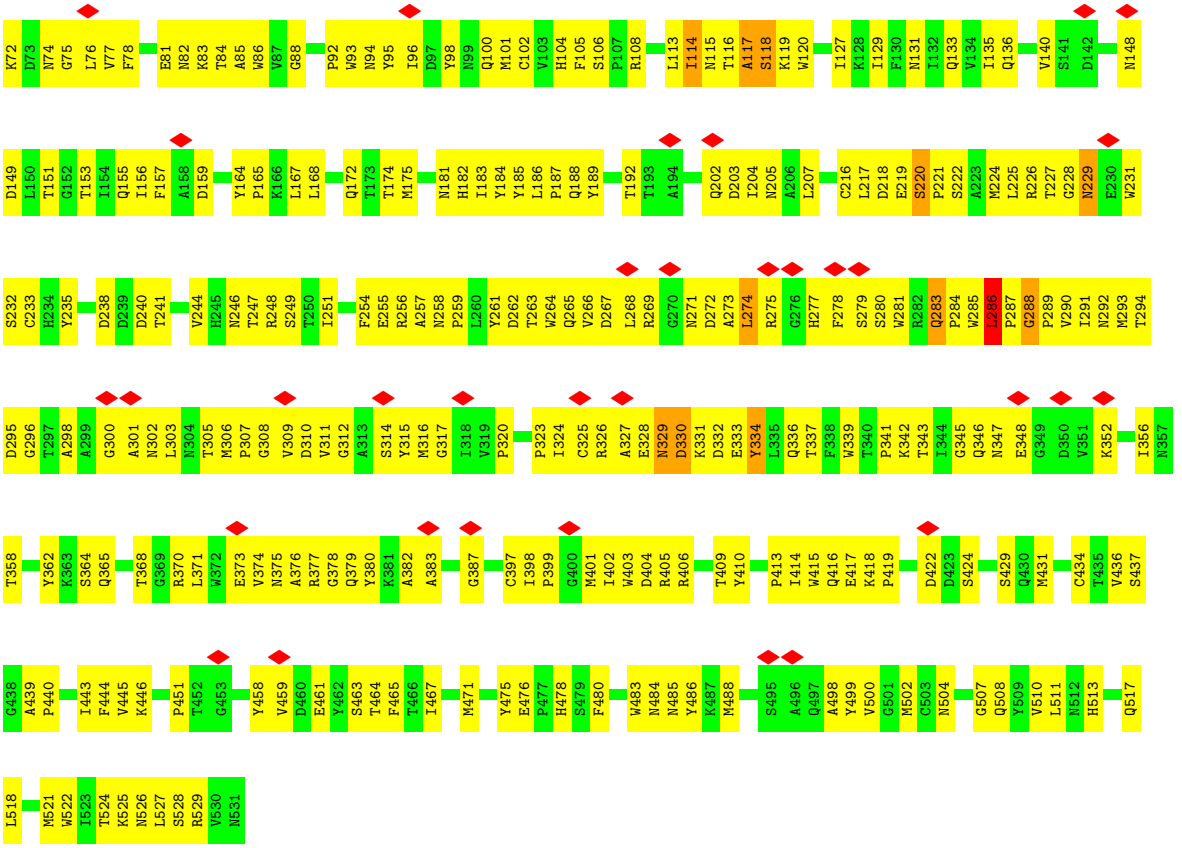
• Molecule 1: Major capsid protein





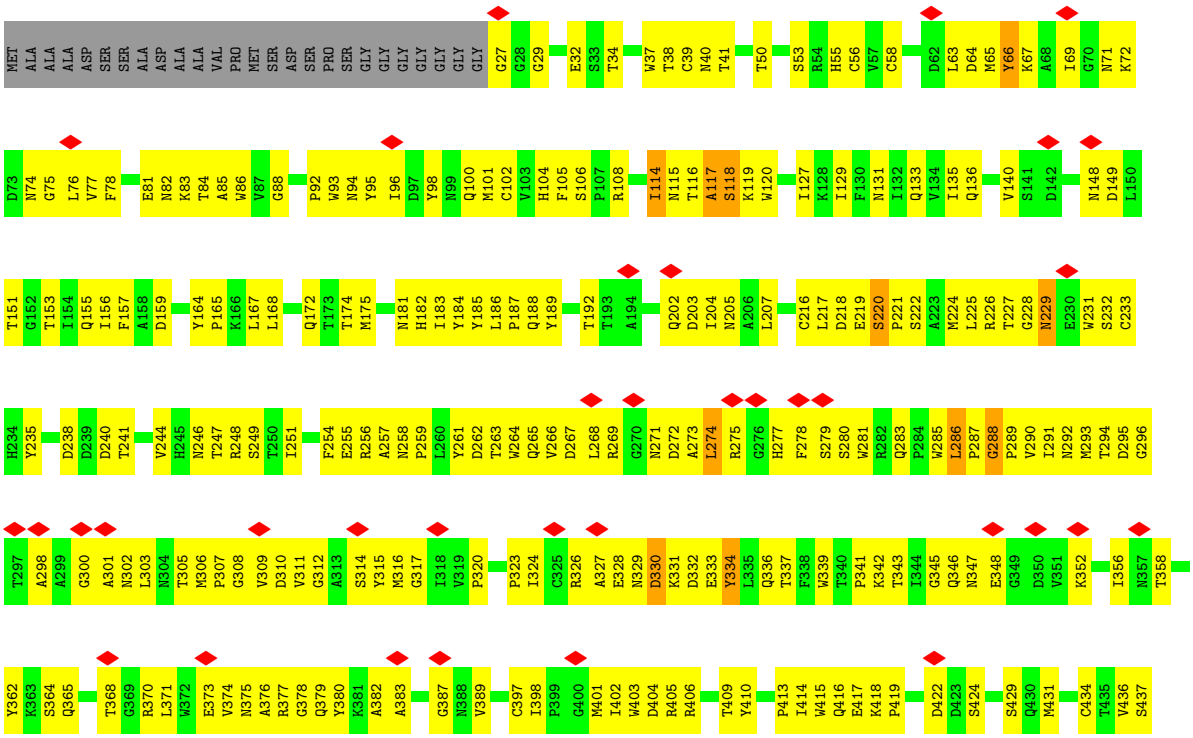
• Molecule 1: Major capsid protein

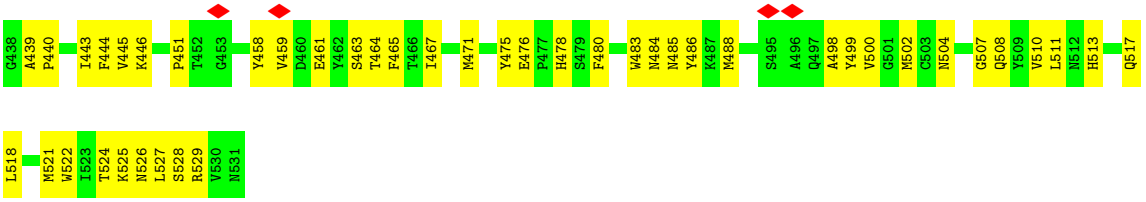




• Molecule 1: Major capsid protein

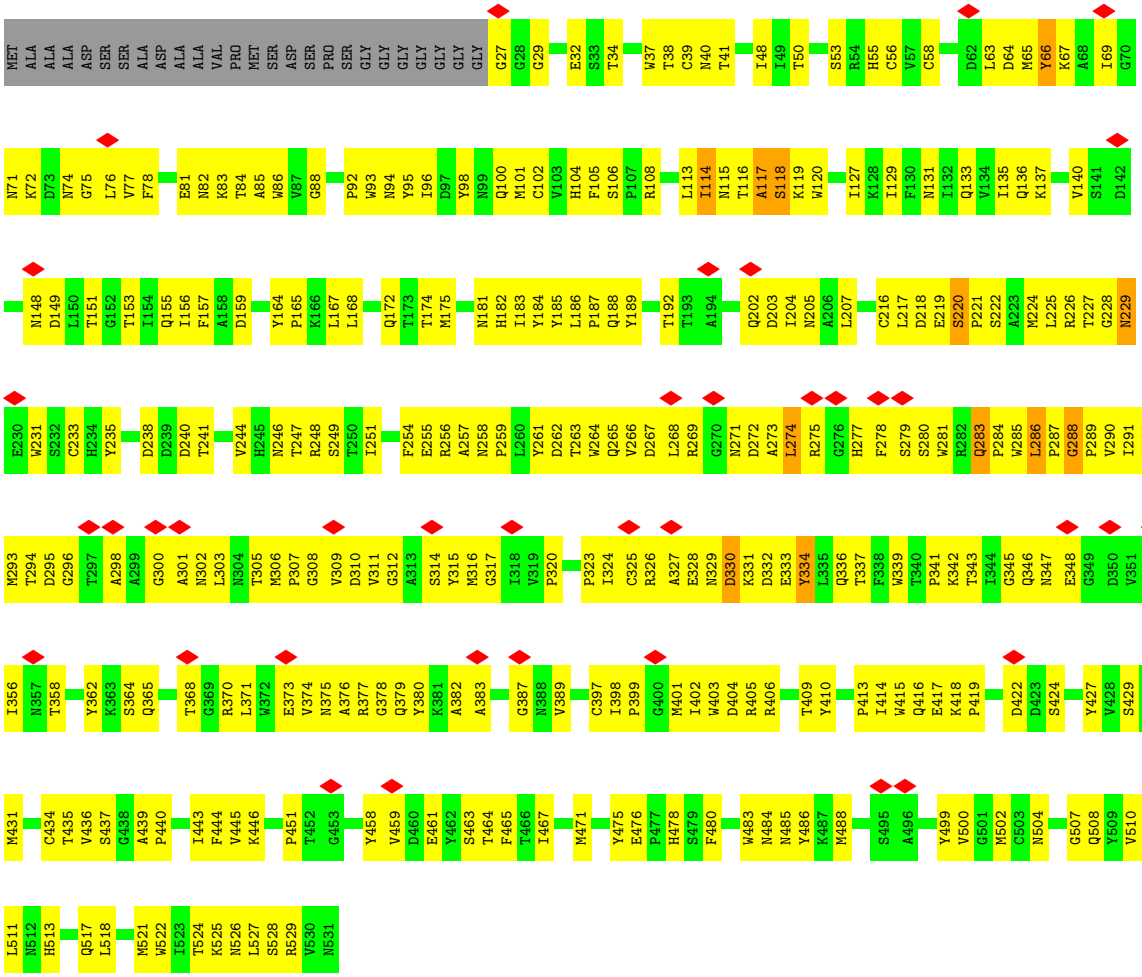
Chain v:





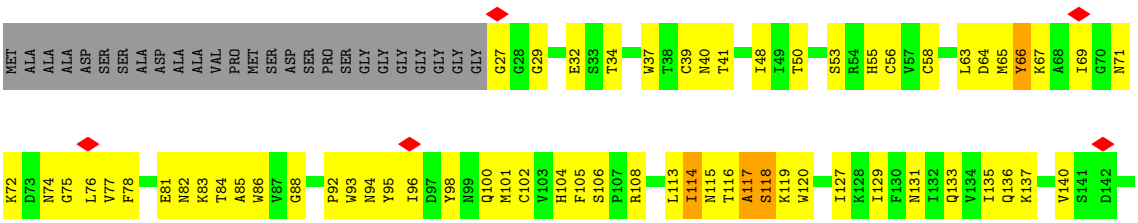
• Molecule 1: Major capsid protein

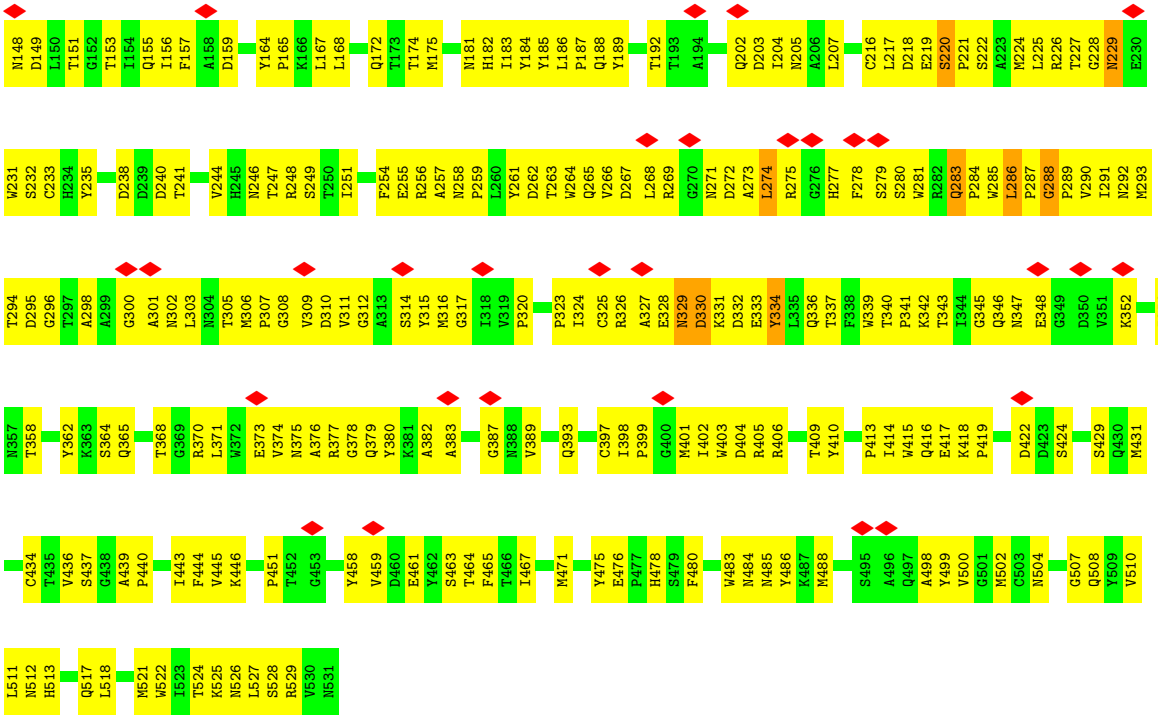
Chain w:



• Molecule 1: Major capsid protein

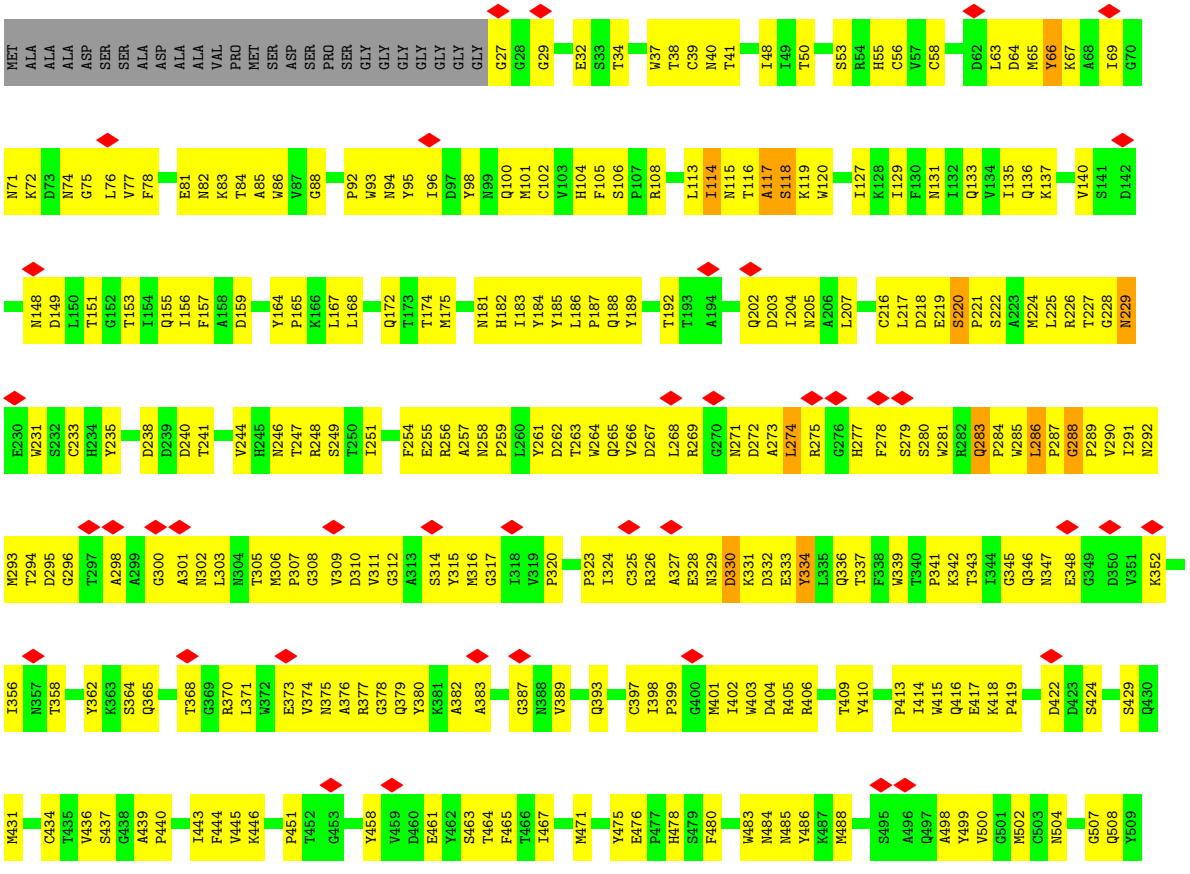
Chain x:

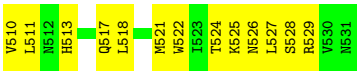




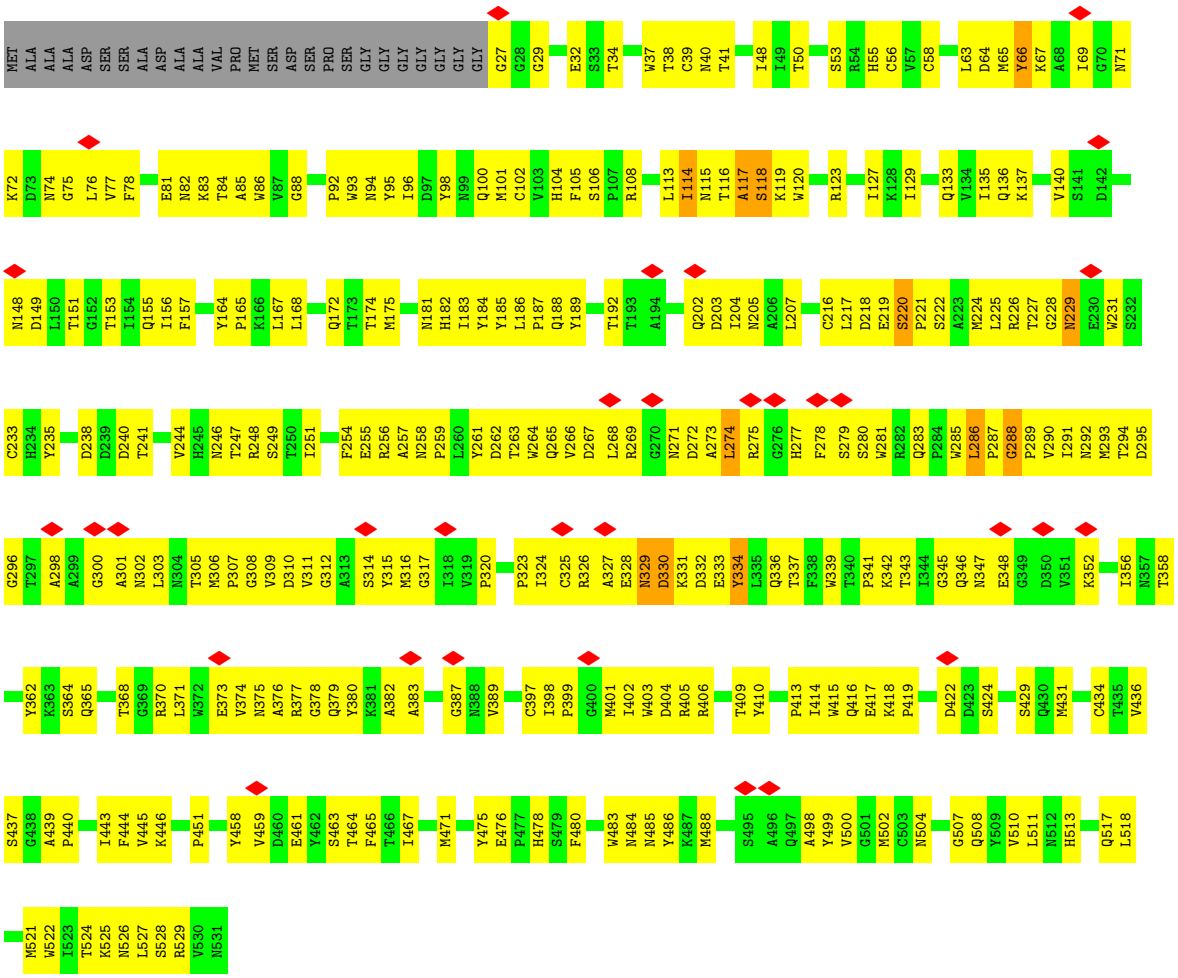
• Molecule 1: Major capsid protein

Chain y:

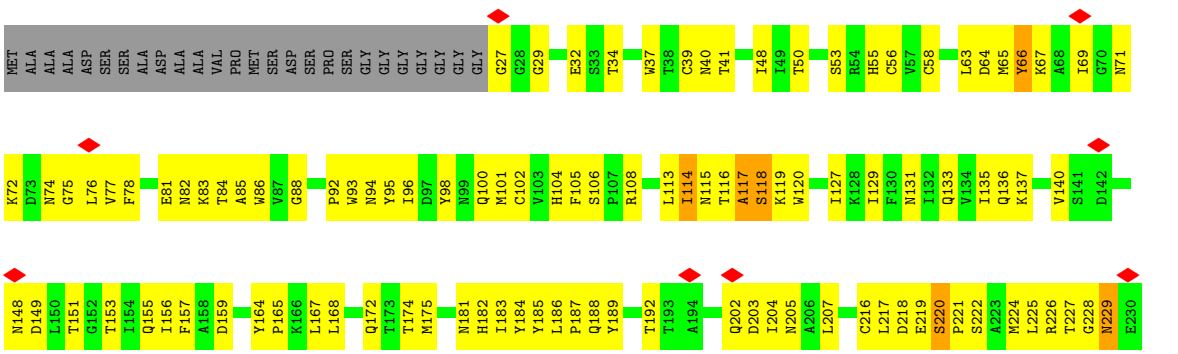


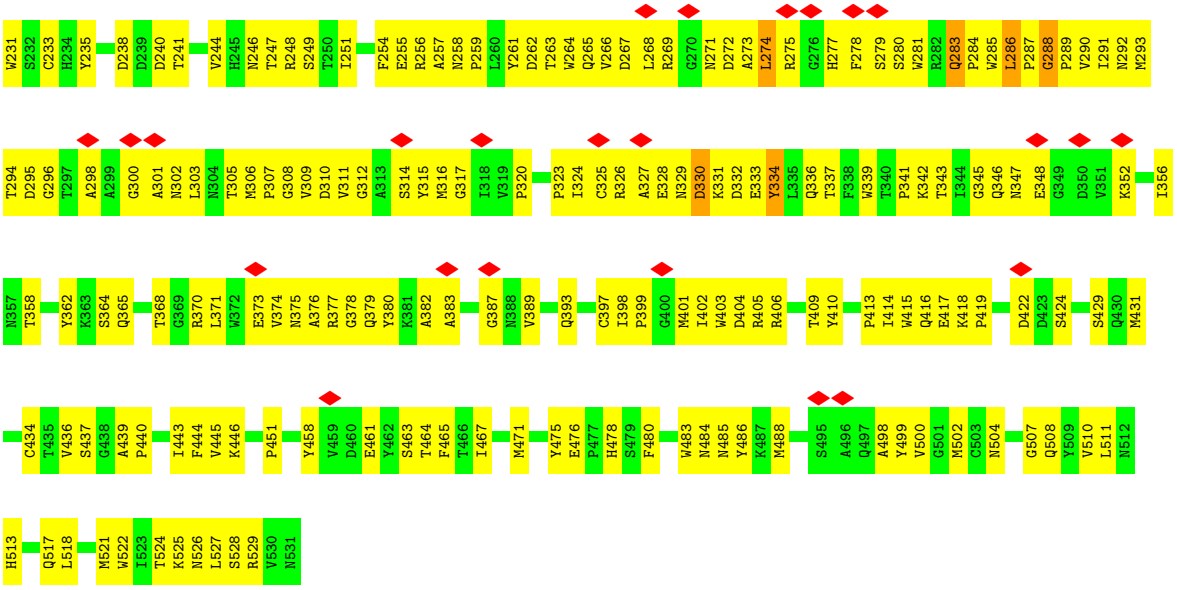


• Molecule 1: Major capsid protein



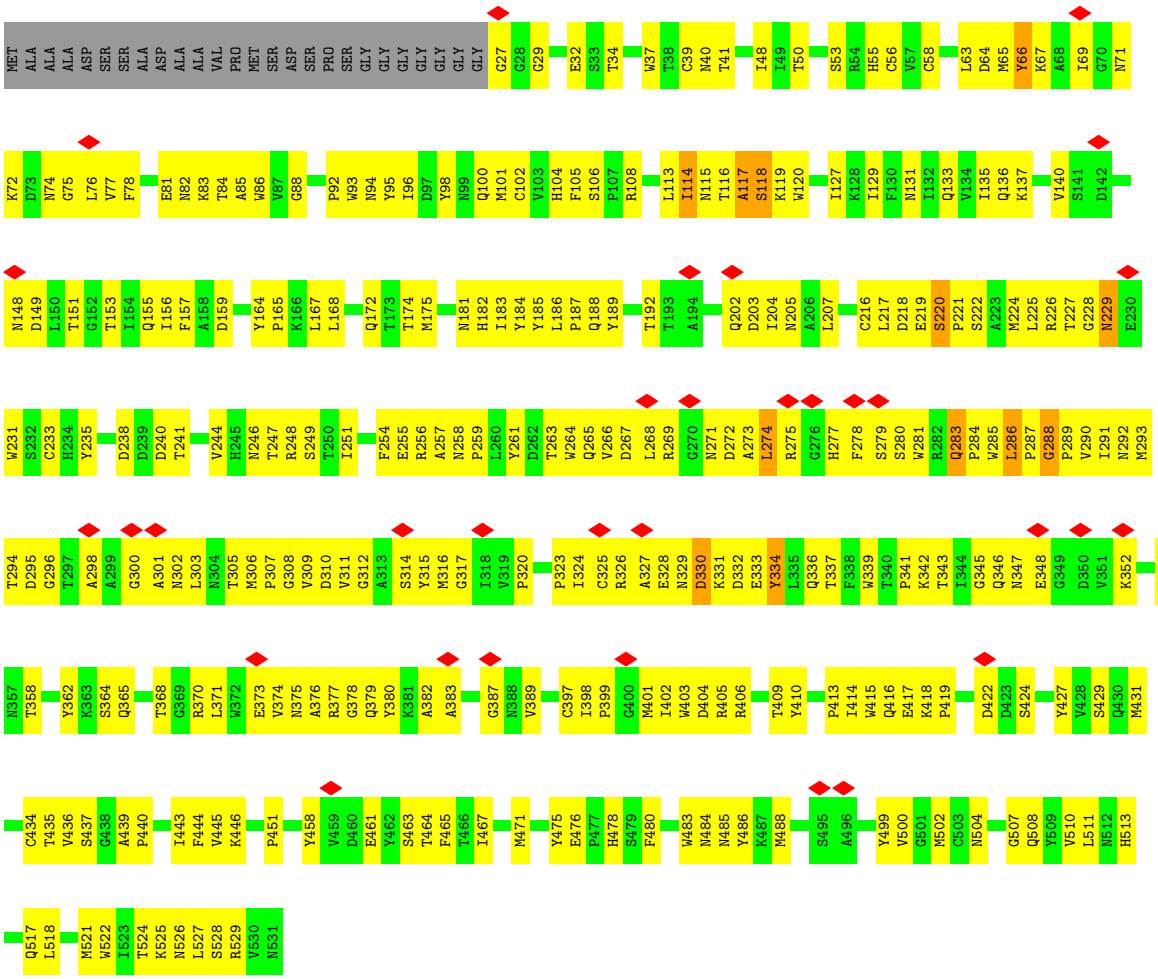
• Molecule 1: Major capsid protein





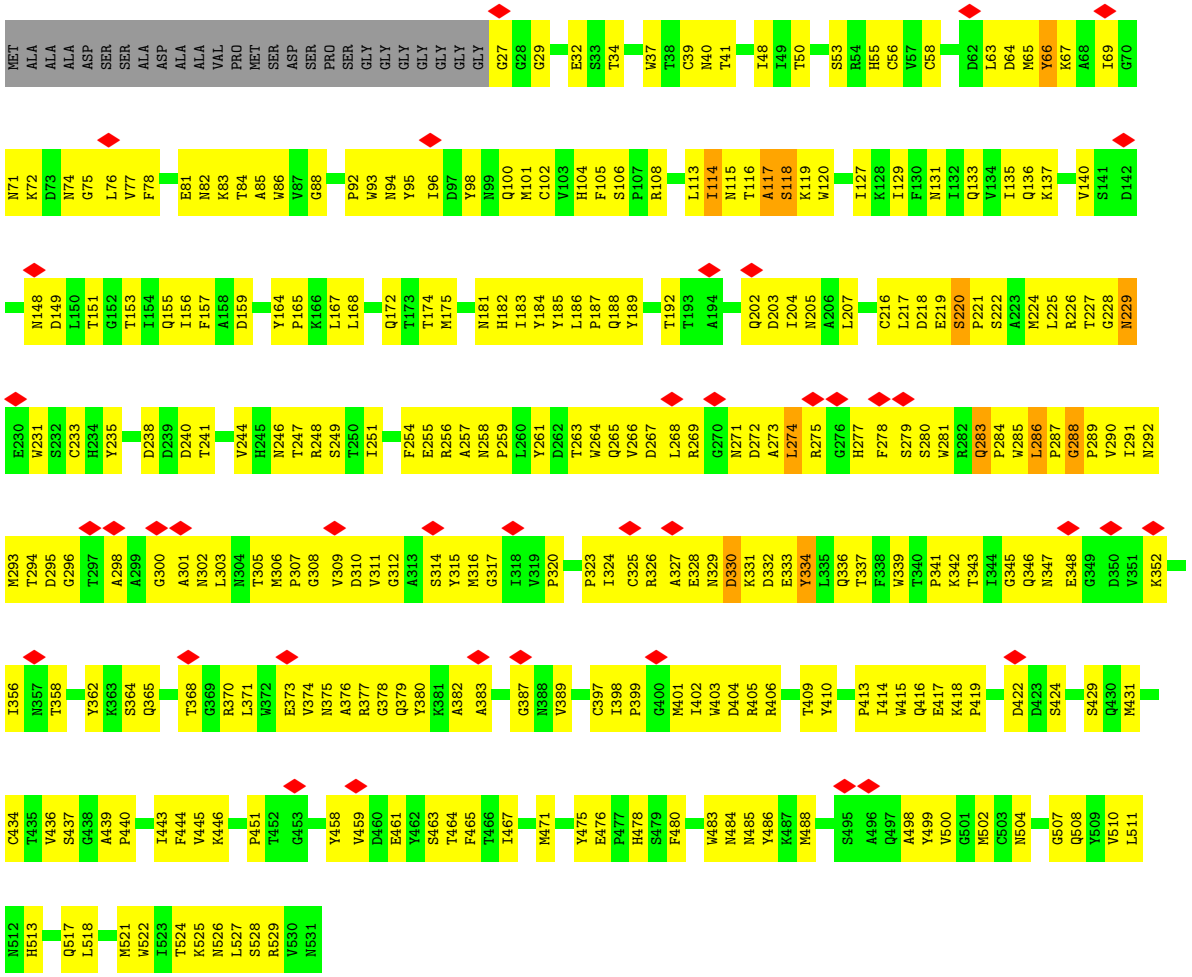
• Molecule 1: Major capsid protein

Chain 2:



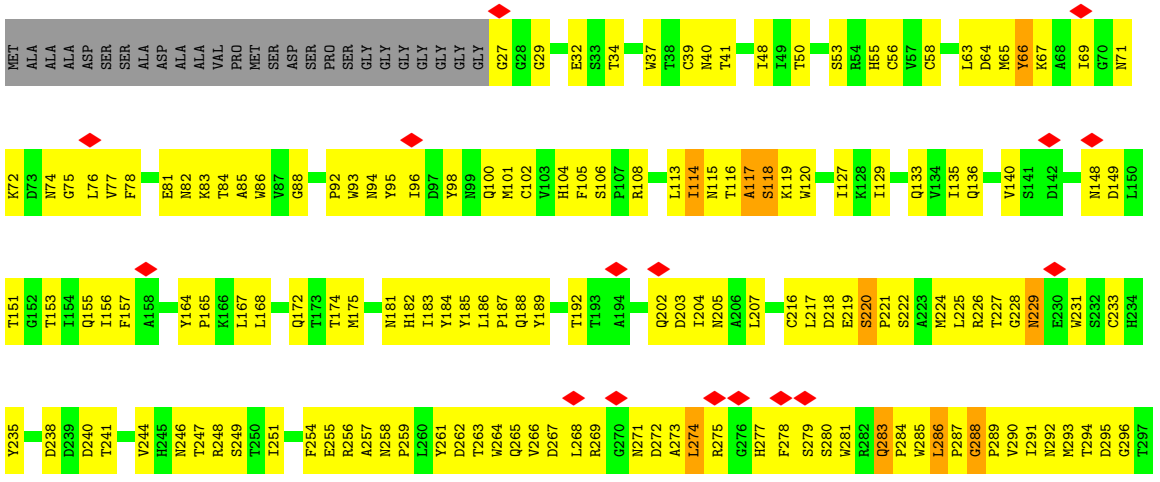
• Molecule 1: Major capsid protein

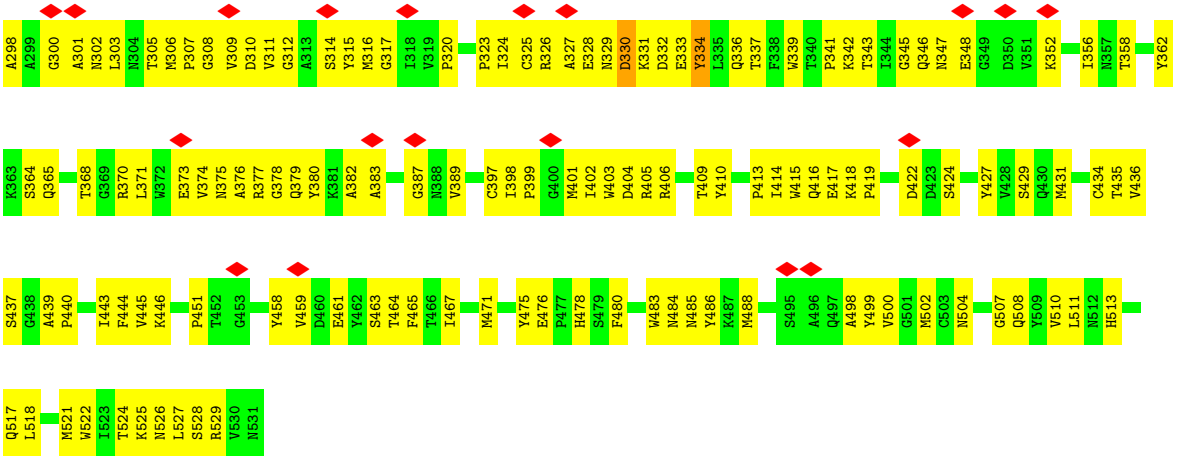
Chain 3:



• Molecule 1: Major capsid protein

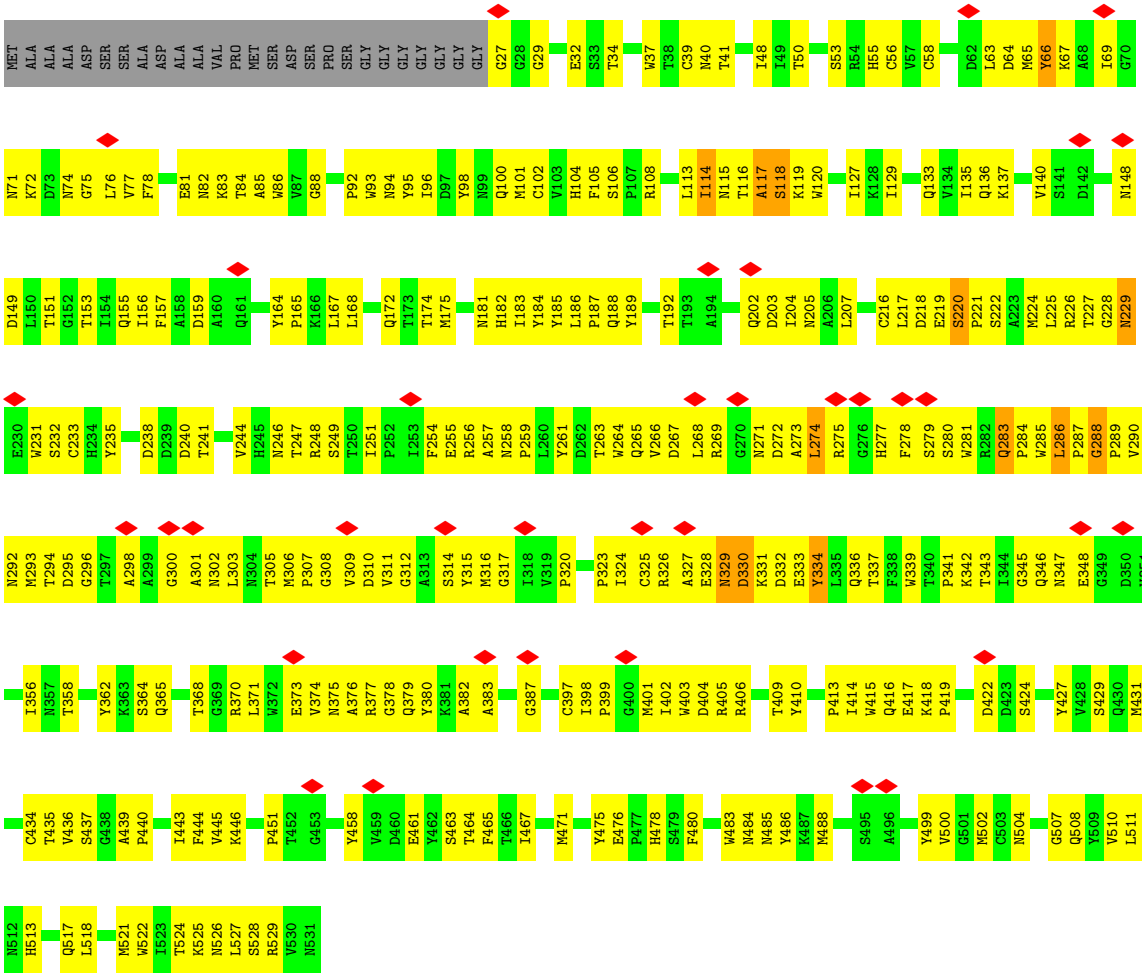
Chain 4:





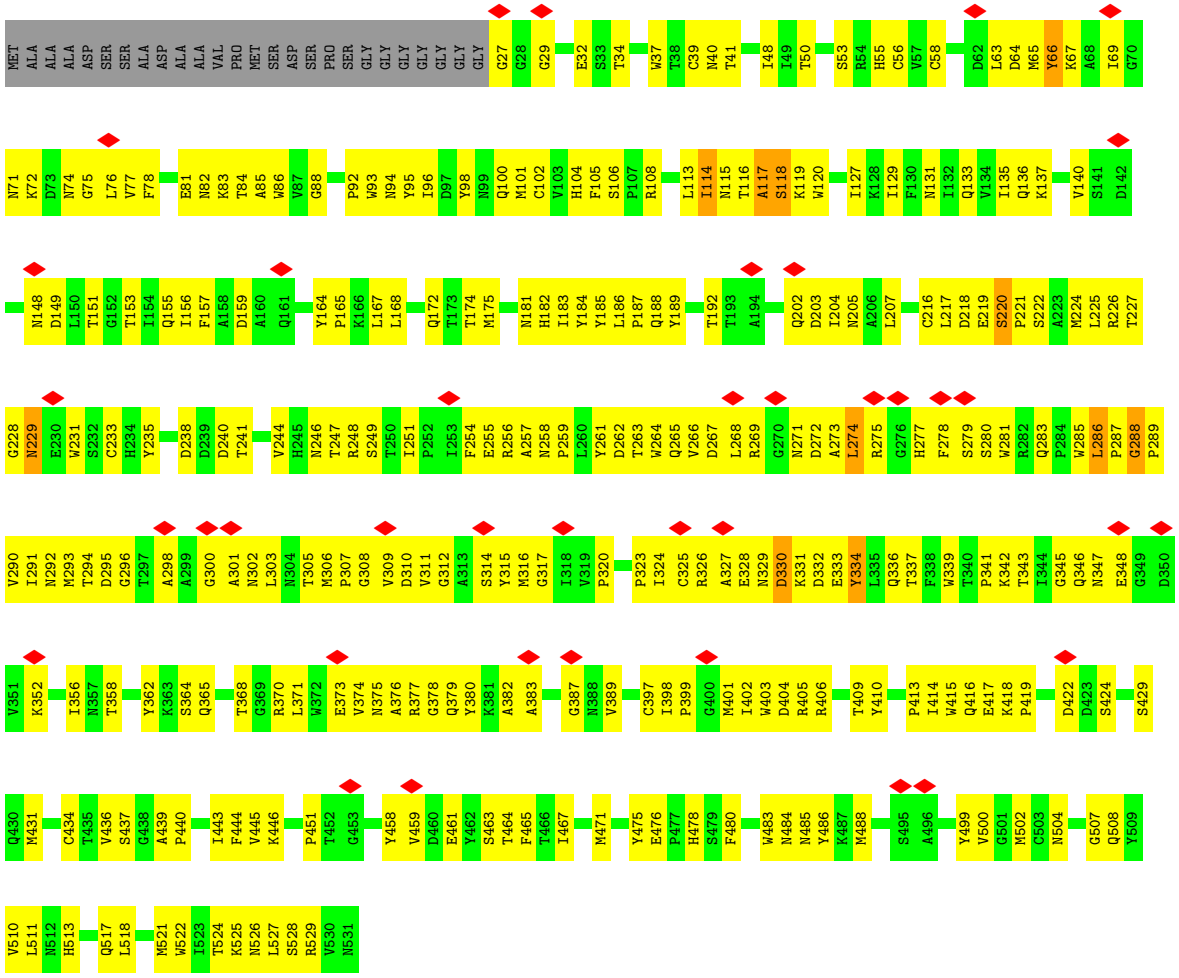
• Molecule 1: Major capsid protein

Chain 5:



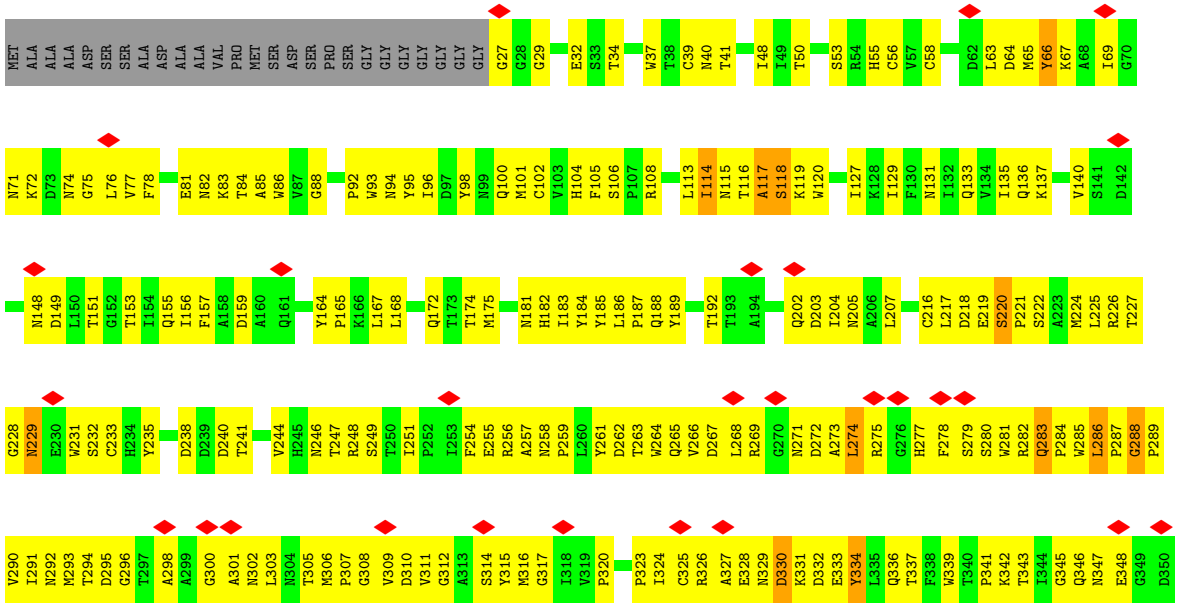
• Molecule 1: Major capsid protein

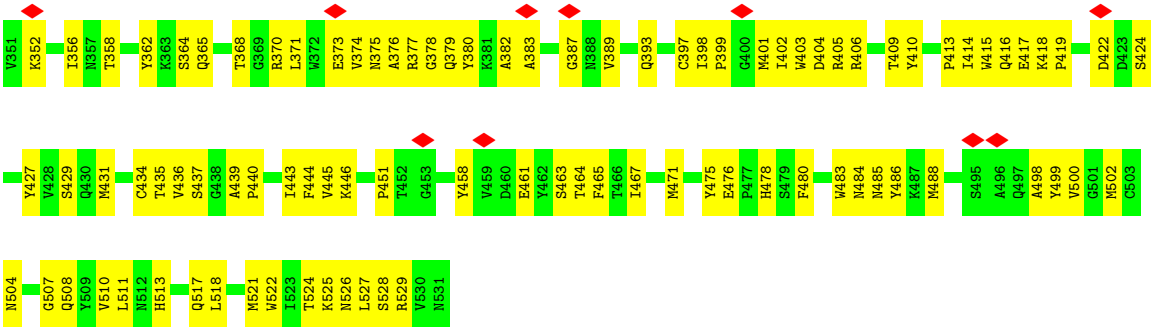
Chain 6:



• Molecule 1: Major capsid protein

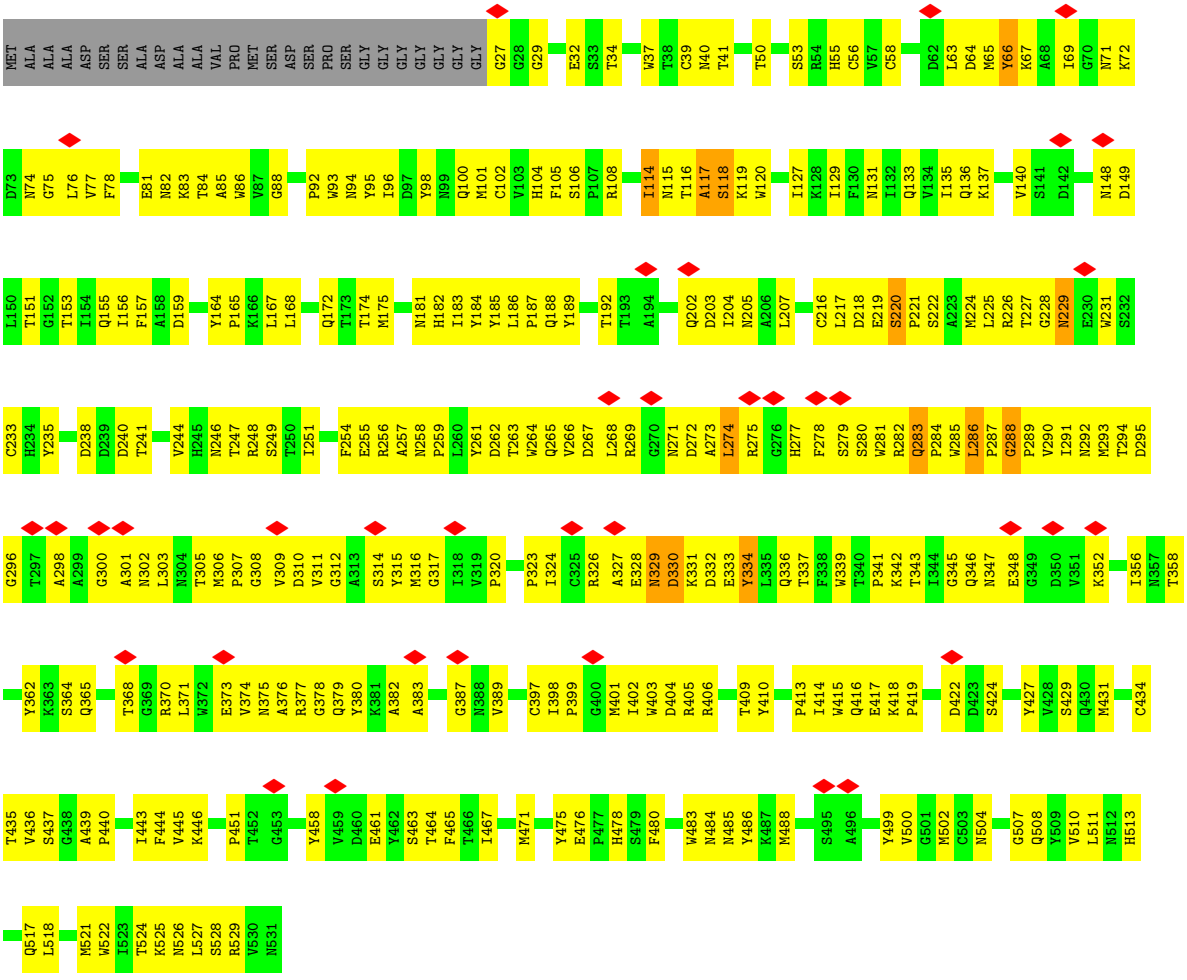
Chain 7:





• Molecule 1: Major capsid protein

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	405850	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	JEOL CRYO ARM 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50.0	Depositor
Minimum defocus (nm)	470	Depositor
Maximum defocus (nm)	1900	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	13.939	Depositor
Minimum map value	-7.106	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	360.0, 360.0, 360.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.72, 0.72, 0.72	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	0.54	0/4110	0.81	12/5614 (0.2%)
1	2	0.54	0/4110	0.81	12/5614 (0.2%)
1	3	0.54	0/4110	0.81	12/5614 (0.2%)
1	4	0.54	0/4110	0.81	12/5614 (0.2%)
1	5	0.54	0/4110	0.81	13/5614 (0.2%)
1	6	0.54	0/4110	0.81	12/5614 (0.2%)
1	7	0.54	0/4110	0.81	12/5614 (0.2%)
1	8	0.54	0/4110	0.81	13/5614 (0.2%)
1	A	0.54	0/4110	0.81	12/5614 (0.2%)
1	B	0.54	0/4110	0.81	12/5614 (0.2%)
1	C	0.54	0/4110	0.81	12/5614 (0.2%)
1	D	0.54	0/4110	0.81	12/5614 (0.2%)
1	E	0.54	0/4110	0.81	12/5614 (0.2%)
1	F	0.54	0/4110	0.81	13/5614 (0.2%)
1	G	0.54	0/4110	0.81	12/5614 (0.2%)
1	H	0.54	0/4110	0.81	12/5614 (0.2%)
1	I	0.54	0/4110	0.81	13/5614 (0.2%)
1	J	0.54	0/4110	0.81	12/5614 (0.2%)
1	K	0.54	0/4110	0.81	13/5614 (0.2%)
1	L	0.54	0/4110	0.81	12/5614 (0.2%)
1	M	0.54	0/4110	0.81	12/5614 (0.2%)
1	N	0.54	0/4110	0.81	12/5614 (0.2%)
1	O	0.54	0/4110	0.81	12/5614 (0.2%)
1	P	0.54	0/4110	0.81	12/5614 (0.2%)
1	Q	0.54	0/4110	0.81	13/5614 (0.2%)
1	R	0.54	0/4110	0.81	12/5614 (0.2%)
1	S	0.54	0/4110	0.81	12/5614 (0.2%)
1	T	0.54	0/4110	0.81	12/5614 (0.2%)
1	U	0.54	0/4110	0.81	13/5614 (0.2%)
1	V	0.54	0/4110	0.81	12/5614 (0.2%)
1	W	0.54	0/4110	0.81	12/5614 (0.2%)
1	X	0.54	0/4110	0.81	12/5614 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Y	0.54	0/4110	0.81	12/5614 (0.2%)
1	Z	0.54	0/4110	0.81	13/5614 (0.2%)
1	a	0.54	0/4110	0.81	12/5614 (0.2%)
1	b	0.54	0/4110	0.81	12/5614 (0.2%)
1	c	0.54	0/4110	0.81	12/5614 (0.2%)
1	d	0.54	0/4110	0.81	12/5614 (0.2%)
1	e	0.54	0/4110	0.81	12/5614 (0.2%)
1	f	0.54	0/4110	0.81	12/5614 (0.2%)
1	g	0.54	0/4110	0.81	12/5614 (0.2%)
1	h	0.54	0/4110	0.81	12/5614 (0.2%)
1	i	0.54	0/4110	0.81	12/5614 (0.2%)
1	j	0.54	0/4110	0.81	14/5614 (0.2%)
1	k	0.54	0/4110	0.81	13/5614 (0.2%)
1	l	0.54	0/4110	0.81	12/5614 (0.2%)
1	m	0.54	0/4110	0.81	12/5614 (0.2%)
1	n	0.54	0/4110	0.81	12/5614 (0.2%)
1	o	0.54	0/4110	0.81	12/5614 (0.2%)
1	p	0.54	0/4110	0.81	12/5614 (0.2%)
1	q	0.54	0/4110	0.81	12/5614 (0.2%)
1	r	0.54	0/4110	0.81	12/5614 (0.2%)
1	s	0.54	0/4110	0.81	13/5614 (0.2%)
1	t	0.54	0/4110	0.81	15/5614 (0.3%)
1	u	0.54	0/4110	0.81	15/5614 (0.3%)
1	v	0.54	0/4110	0.81	12/5614 (0.2%)
1	w	0.54	0/4110	0.81	12/5614 (0.2%)
1	x	0.54	0/4110	0.81	13/5614 (0.2%)
1	y	0.54	0/4110	0.81	12/5614 (0.2%)
1	z	0.54	0/4110	0.81	13/5614 (0.2%)
All	All	0.54	0/246600	0.81	740/336840 (0.2%)

There are no bond length outliers.

All (740) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	374	VAL	N-CA-C	9.45	120.65	111.67
1	h	374	VAL	N-CA-C	9.45	120.65	111.67
1	B	374	VAL	N-CA-C	9.45	120.65	111.67
1	R	374	VAL	N-CA-C	9.45	120.65	111.67
1	q	374	VAL	N-CA-C	9.45	120.65	111.67
1	H	116	THR	N-CA-C	9.45	121.66	111.36
1	P	116	THR	N-CA-C	9.45	121.66	111.36
1	Y	116	THR	N-CA-C	9.45	121.66	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	374	VAL	N-CA-C	9.45	120.64	111.67
1	1	374	VAL	N-CA-C	9.45	120.64	111.67
1	7	116	THR	N-CA-C	9.45	121.66	111.36
1	n	374	VAL	N-CA-C	9.44	120.64	111.67
1	D	374	VAL	N-CA-C	9.44	120.64	111.67
1	E	374	VAL	N-CA-C	9.44	120.64	111.67
1	G	374	VAL	N-CA-C	9.44	120.64	111.67
1	N	374	VAL	N-CA-C	9.44	120.64	111.67
1	W	374	VAL	N-CA-C	9.44	120.64	111.67
1	Y	374	VAL	N-CA-C	9.44	120.64	111.67
1	j	374	VAL	N-CA-C	9.44	120.64	111.67
1	k	374	VAL	N-CA-C	9.44	120.64	111.67
1	5	374	VAL	N-CA-C	9.44	120.64	111.67
1	6	374	VAL	N-CA-C	9.44	120.64	111.67
1	7	374	VAL	N-CA-C	9.44	120.64	111.67
1	b	374	VAL	N-CA-C	9.44	120.64	111.67
1	c	374	VAL	N-CA-C	9.44	120.64	111.67
1	e	374	VAL	N-CA-C	9.44	120.64	111.67
1	5	116	THR	N-CA-C	9.44	121.64	111.36
1	6	116	THR	N-CA-C	9.44	121.64	111.36
1	I	116	THR	N-CA-C	9.43	121.64	111.36
1	K	116	THR	N-CA-C	9.43	121.64	111.36
1	Q	116	THR	N-CA-C	9.43	121.64	111.36
1	m	116	THR	N-CA-C	9.43	121.64	111.36
1	x	116	THR	N-CA-C	9.43	121.64	111.36
1	4	116	THR	N-CA-C	9.43	121.64	111.36
1	T	374	VAL	N-CA-C	9.43	120.63	111.67
1	a	374	VAL	N-CA-C	9.43	120.63	111.67
1	d	374	VAL	N-CA-C	9.43	120.63	111.67
1	3	374	VAL	N-CA-C	9.43	120.63	111.67
1	i	374	VAL	N-CA-C	9.43	120.62	111.67
1	G	116	THR	N-CA-C	9.42	121.63	111.36
1	X	116	THR	N-CA-C	9.42	121.63	111.36
1	l	116	THR	N-CA-C	9.42	121.63	111.36
1	L	374	VAL	N-CA-C	9.42	120.62	111.67
1	A	374	VAL	N-CA-C	9.42	120.62	111.67
1	C	374	VAL	N-CA-C	9.42	120.61	111.67
1	I	374	VAL	N-CA-C	9.42	120.61	111.67
1	K	374	VAL	N-CA-C	9.42	120.61	111.67
1	Q	374	VAL	N-CA-C	9.42	120.61	111.67
1	V	374	VAL	N-CA-C	9.42	120.61	111.67
1	g	374	VAL	N-CA-C	9.42	120.61	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	116	THR	N-CA-C	9.42	121.62	111.36
1	p	374	VAL	N-CA-C	9.42	120.61	111.67
1	x	374	VAL	N-CA-C	9.42	120.61	111.67
1	N	116	THR	N-CA-C	9.41	121.62	111.36
1	S	374	VAL	N-CA-C	9.41	120.61	111.67
1	k	116	THR	N-CA-C	9.41	121.62	111.36
1	l	374	VAL	N-CA-C	9.41	120.61	111.67
1	r	374	VAL	N-CA-C	9.41	120.61	111.67
1	2	374	VAL	N-CA-C	9.41	120.61	111.67
1	C	116	THR	N-CA-C	9.41	121.62	111.36
1	F	116	THR	N-CA-C	9.41	121.62	111.36
1	T	116	THR	N-CA-C	9.41	121.62	111.36
1	V	116	THR	N-CA-C	9.41	121.62	111.36
1	Z	116	THR	N-CA-C	9.41	121.61	111.36
1	a	116	THR	N-CA-C	9.41	121.62	111.36
1	d	116	THR	N-CA-C	9.41	121.62	111.36
1	g	116	THR	N-CA-C	9.41	121.62	111.36
1	p	116	THR	N-CA-C	9.41	121.62	111.36
1	v	116	THR	N-CA-C	9.41	121.62	111.36
1	3	116	THR	N-CA-C	9.41	121.62	111.36
1	D	116	THR	N-CA-C	9.41	121.61	111.36
1	J	374	VAL	N-CA-C	9.41	120.61	111.67
1	W	116	THR	N-CA-C	9.41	121.61	111.36
1	8	116	THR	N-CA-C	9.41	121.61	111.36
1	A	116	THR	N-CA-C	9.40	121.61	111.36
1	O	116	THR	N-CA-C	9.40	121.61	111.36
1	f	374	VAL	N-CA-C	9.40	120.61	111.67
1	i	116	THR	N-CA-C	9.40	121.61	111.36
1	n	116	THR	N-CA-C	9.40	121.61	111.36
1	y	116	THR	N-CA-C	9.40	121.61	111.36
1	M	374	VAL	N-CA-C	9.40	120.60	111.67
1	X	374	VAL	N-CA-C	9.40	120.60	111.67
1	h	116	THR	N-CA-C	9.40	121.60	111.36
1	j	116	THR	N-CA-C	9.40	121.60	111.36
1	o	374	VAL	N-CA-C	9.40	120.60	111.67
1	u	116	THR	N-CA-C	9.40	121.60	111.36
1	B	116	THR	N-CA-C	9.39	121.60	111.36
1	E	116	THR	N-CA-C	9.39	121.60	111.36
1	M	116	THR	N-CA-C	9.39	121.60	111.36
1	w	116	THR	N-CA-C	9.39	121.60	111.36
1	t	374	VAL	N-CA-C	9.39	120.59	111.67
1	m	374	VAL	N-CA-C	9.39	120.59	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4	374	VAL	N-CA-C	9.39	120.59	111.67
1	H	374	VAL	N-CA-C	9.39	120.59	111.67
1	P	374	VAL	N-CA-C	9.39	120.59	111.67
1	8	374	VAL	N-CA-C	9.39	120.59	111.67
1	v	374	VAL	N-CA-C	9.39	120.59	111.67
1	y	374	VAL	N-CA-C	9.39	120.59	111.67
1	U	374	VAL	N-CA-C	9.38	120.58	111.67
1	s	374	VAL	N-CA-C	9.38	120.58	111.67
1	z	374	VAL	N-CA-C	9.38	120.58	111.67
1	U	116	THR	N-CA-C	9.38	121.58	111.36
1	s	116	THR	N-CA-C	9.38	121.58	111.36
1	z	116	THR	N-CA-C	9.38	121.58	111.36
1	L	116	THR	N-CA-C	9.38	121.58	111.36
1	O	374	VAL	N-CA-C	9.37	120.57	111.67
1	Z	374	VAL	N-CA-C	9.37	120.57	111.67
1	R	116	THR	N-CA-C	9.37	121.57	111.36
1	q	116	THR	N-CA-C	9.37	121.57	111.36
1	t	116	THR	N-CA-C	9.37	121.57	111.36
1	1	116	THR	N-CA-C	9.37	121.57	111.36
1	J	116	THR	N-CA-C	9.36	121.57	111.36
1	S	116	THR	N-CA-C	9.36	121.57	111.36
1	r	116	THR	N-CA-C	9.36	121.57	111.36
1	2	116	THR	N-CA-C	9.36	121.57	111.36
1	b	116	THR	N-CA-C	9.36	121.56	111.36
1	c	116	THR	N-CA-C	9.36	121.56	111.36
1	e	116	THR	N-CA-C	9.36	121.56	111.36
1	f	116	THR	N-CA-C	9.36	121.56	111.36
1	F	374	VAL	N-CA-C	9.36	120.56	111.67
1	l	288	GLY	CA-C-N	9.31	129.39	119.90
1	l	288	GLY	C-N-CA	9.31	129.39	119.90
1	i	288	GLY	CA-C-N	9.30	129.39	119.90
1	i	288	GLY	C-N-CA	9.30	129.39	119.90
1	B	288	GLY	CA-C-N	9.30	129.39	119.90
1	B	288	GLY	C-N-CA	9.30	129.39	119.90
1	F	288	GLY	CA-C-N	9.30	129.38	119.90
1	F	288	GLY	C-N-CA	9.30	129.38	119.90
1	t	288	GLY	CA-C-N	9.29	129.37	119.90
1	t	288	GLY	C-N-CA	9.29	129.37	119.90
1	v	288	GLY	CA-C-N	9.28	129.37	119.90
1	v	288	GLY	C-N-CA	9.28	129.37	119.90
1	y	288	GLY	CA-C-N	9.28	129.37	119.90
1	y	288	GLY	C-N-CA	9.28	129.37	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	288	GLY	CA-C-N	9.28	129.37	119.90
1	H	288	GLY	C-N-CA	9.28	129.37	119.90
1	P	288	GLY	CA-C-N	9.28	129.37	119.90
1	P	288	GLY	C-N-CA	9.28	129.37	119.90
1	R	288	GLY	CA-C-N	9.27	129.36	119.90
1	R	288	GLY	C-N-CA	9.27	129.36	119.90
1	T	288	GLY	CA-C-N	9.27	129.36	119.90
1	T	288	GLY	C-N-CA	9.27	129.36	119.90
1	h	288	GLY	CA-C-N	9.27	129.36	119.90
1	h	288	GLY	C-N-CA	9.27	129.36	119.90
1	q	288	GLY	CA-C-N	9.27	129.36	119.90
1	q	288	GLY	C-N-CA	9.27	129.36	119.90
1	1	288	GLY	CA-C-N	9.27	129.36	119.90
1	1	288	GLY	C-N-CA	9.27	129.36	119.90
1	D	288	GLY	CA-C-N	9.27	129.35	119.90
1	D	288	GLY	C-N-CA	9.27	129.35	119.90
1	W	288	GLY	CA-C-N	9.27	129.35	119.90
1	W	288	GLY	C-N-CA	9.27	129.35	119.90
1	L	288	GLY	CA-C-N	9.26	129.35	119.90
1	L	288	GLY	C-N-CA	9.26	129.35	119.90
1	M	288	GLY	CA-C-N	9.26	129.35	119.90
1	M	288	GLY	C-N-CA	9.26	129.35	119.90
1	5	288	GLY	CA-C-N	9.26	129.35	119.90
1	5	288	GLY	C-N-CA	9.26	129.35	119.90
1	8	288	GLY	CA-C-N	9.26	129.35	119.90
1	8	288	GLY	C-N-CA	9.26	129.35	119.90
1	A	288	GLY	CA-C-N	9.26	129.34	119.90
1	A	288	GLY	C-N-CA	9.26	129.34	119.90
1	G	288	GLY	CA-C-N	9.26	129.34	119.90
1	G	288	GLY	C-N-CA	9.26	129.34	119.90
1	X	288	GLY	CA-C-N	9.26	129.34	119.90
1	X	288	GLY	C-N-CA	9.26	129.34	119.90
1	o	288	GLY	CA-C-N	9.26	129.34	119.90
1	o	288	GLY	C-N-CA	9.26	129.34	119.90
1	w	288	GLY	CA-C-N	9.26	129.34	119.90
1	w	288	GLY	C-N-CA	9.26	129.34	119.90
1	J	288	GLY	CA-C-N	9.25	129.34	119.90
1	J	288	GLY	C-N-CA	9.25	129.34	119.90
1	S	288	GLY	CA-C-N	9.25	129.34	119.90
1	S	288	GLY	C-N-CA	9.25	129.34	119.90
1	r	288	GLY	CA-C-N	9.25	129.34	119.90
1	r	288	GLY	C-N-CA	9.25	129.34	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2	288	GLY	CA-C-N	9.25	129.34	119.90
1	2	288	GLY	C-N-CA	9.25	129.34	119.90
1	K	288	GLY	CA-C-N	9.24	129.33	119.90
1	K	288	GLY	C-N-CA	9.24	129.33	119.90
1	m	288	GLY	CA-C-N	9.24	129.33	119.90
1	m	288	GLY	C-N-CA	9.24	129.33	119.90
1	4	288	GLY	CA-C-N	9.24	129.33	119.90
1	4	288	GLY	C-N-CA	9.24	129.33	119.90
1	E	288	GLY	CA-C-N	9.24	129.33	119.90
1	E	288	GLY	C-N-CA	9.24	129.33	119.90
1	I	288	GLY	CA-C-N	9.24	129.33	119.90
1	I	288	GLY	C-N-CA	9.24	129.33	119.90
1	N	288	GLY	CA-C-N	9.24	129.33	119.90
1	N	288	GLY	C-N-CA	9.24	129.33	119.90
1	Y	288	GLY	CA-C-N	9.24	129.33	119.90
1	Y	288	GLY	C-N-CA	9.24	129.33	119.90
1	j	288	GLY	CA-C-N	9.24	129.33	119.90
1	j	288	GLY	C-N-CA	9.24	129.33	119.90
1	k	288	GLY	CA-C-N	9.24	129.33	119.90
1	k	288	GLY	C-N-CA	9.24	129.33	119.90
1	7	288	GLY	CA-C-N	9.24	129.33	119.90
1	7	288	GLY	C-N-CA	9.24	129.33	119.90
1	Q	288	GLY	CA-C-N	9.24	129.32	119.90
1	Q	288	GLY	C-N-CA	9.24	129.32	119.90
1	x	288	GLY	CA-C-N	9.24	129.32	119.90
1	x	288	GLY	C-N-CA	9.24	129.32	119.90
1	6	288	GLY	CA-C-N	9.24	129.32	119.90
1	6	288	GLY	C-N-CA	9.24	129.32	119.90
1	u	288	GLY	CA-C-N	9.23	129.32	119.90
1	u	288	GLY	C-N-CA	9.23	129.32	119.90
1	a	288	GLY	CA-C-N	9.23	129.31	119.90
1	a	288	GLY	C-N-CA	9.23	129.31	119.90
1	b	288	GLY	CA-C-N	9.23	129.31	119.90
1	b	288	GLY	C-N-CA	9.23	129.31	119.90
1	c	288	GLY	CA-C-N	9.23	129.31	119.90
1	c	288	GLY	C-N-CA	9.23	129.31	119.90
1	d	288	GLY	CA-C-N	9.23	129.31	119.90
1	d	288	GLY	C-N-CA	9.23	129.31	119.90
1	e	288	GLY	CA-C-N	9.23	129.31	119.90
1	e	288	GLY	C-N-CA	9.23	129.31	119.90
1	f	288	GLY	CA-C-N	9.23	129.31	119.90
1	f	288	GLY	C-N-CA	9.23	129.31	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	288	GLY	CA-C-N	9.23	129.31	119.90
1	n	288	GLY	C-N-CA	9.23	129.31	119.90
1	3	288	GLY	CA-C-N	9.23	129.31	119.90
1	3	288	GLY	C-N-CA	9.23	129.31	119.90
1	C	288	GLY	CA-C-N	9.22	129.30	119.90
1	C	288	GLY	C-N-CA	9.22	129.30	119.90
1	O	288	GLY	CA-C-N	9.22	129.30	119.90
1	O	288	GLY	C-N-CA	9.22	129.30	119.90
1	V	288	GLY	CA-C-N	9.22	129.30	119.90
1	V	288	GLY	C-N-CA	9.22	129.30	119.90
1	Z	288	GLY	CA-C-N	9.22	129.30	119.90
1	Z	288	GLY	C-N-CA	9.22	129.30	119.90
1	g	288	GLY	CA-C-N	9.22	129.30	119.90
1	g	288	GLY	C-N-CA	9.22	129.30	119.90
1	p	288	GLY	CA-C-N	9.22	129.30	119.90
1	p	288	GLY	C-N-CA	9.22	129.30	119.90
1	U	288	GLY	CA-C-N	9.21	129.29	119.90
1	U	288	GLY	C-N-CA	9.21	129.29	119.90
1	s	288	GLY	CA-C-N	9.21	129.29	119.90
1	s	288	GLY	C-N-CA	9.21	129.29	119.90
1	z	288	GLY	CA-C-N	9.21	129.29	119.90
1	z	288	GLY	C-N-CA	9.21	129.29	119.90
1	J	117	ALA	N-CA-C	6.52	119.57	109.07
1	L	117	ALA	N-CA-C	6.52	119.57	109.07
1	S	117	ALA	N-CA-C	6.52	119.57	109.07
1	r	117	ALA	N-CA-C	6.52	119.57	109.07
1	2	117	ALA	N-CA-C	6.52	119.57	109.07
1	a	117	ALA	N-CA-C	6.51	119.56	109.07
1	d	117	ALA	N-CA-C	6.51	119.56	109.07
1	n	117	ALA	N-CA-C	6.51	119.56	109.07
1	3	117	ALA	N-CA-C	6.51	119.56	109.07
1	T	117	ALA	N-CA-C	6.51	119.55	109.07
1	V	117	ALA	N-CA-C	6.51	119.55	109.07
1	g	117	ALA	N-CA-C	6.51	119.55	109.07
1	p	117	ALA	N-CA-C	6.51	119.55	109.07
1	E	117	ALA	N-CA-C	6.51	119.55	109.07
1	F	117	ALA	N-CA-C	6.51	119.55	109.07
1	G	117	ALA	N-CA-C	6.51	119.55	109.07
1	M	117	ALA	N-CA-C	6.51	119.55	109.07
1	X	117	ALA	N-CA-C	6.51	119.55	109.07
1	o	117	ALA	N-CA-C	6.51	119.55	109.07
1	w	117	ALA	N-CA-C	6.51	119.55	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	117	ALA	N-CA-C	6.50	119.54	109.07
1	N	117	ALA	N-CA-C	6.50	119.54	109.07
1	O	117	ALA	N-CA-C	6.50	119.54	109.07
1	P	117	ALA	N-CA-C	6.50	119.54	109.07
1	Y	117	ALA	N-CA-C	6.50	119.54	109.07
1	Z	117	ALA	N-CA-C	6.50	119.54	109.07
1	h	117	ALA	N-CA-C	6.50	119.54	109.07
1	l	117	ALA	N-CA-C	6.50	119.54	109.07
1	8	117	ALA	N-CA-C	6.50	119.54	109.07
1	I	117	ALA	N-CA-C	6.50	119.54	109.07
1	B	117	ALA	N-CA-C	6.50	119.53	109.07
1	U	117	ALA	N-CA-C	6.50	119.53	109.07
1	j	117	ALA	N-CA-C	6.50	119.53	109.07
1	s	117	ALA	N-CA-C	6.50	119.53	109.07
1	z	117	ALA	N-CA-C	6.50	119.53	109.07
1	1	117	ALA	N-CA-C	6.50	119.53	109.07
1	v	117	ALA	N-CA-C	6.50	119.53	109.07
1	y	117	ALA	N-CA-C	6.50	119.53	109.07
1	A	117	ALA	N-CA-C	6.49	119.53	109.07
1	i	117	ALA	N-CA-C	6.49	119.52	109.07
1	5	117	ALA	N-CA-C	6.49	119.52	109.07
1	6	117	ALA	N-CA-C	6.49	119.52	109.07
1	R	117	ALA	N-CA-C	6.49	119.52	109.07
1	q	117	ALA	N-CA-C	6.49	119.52	109.07
1	t	117	ALA	N-CA-C	6.49	119.52	109.07
1	D	117	ALA	N-CA-C	6.49	119.51	109.07
1	W	117	ALA	N-CA-C	6.49	119.51	109.07
1	Q	117	ALA	N-CA-C	6.48	119.51	109.07
1	x	117	ALA	N-CA-C	6.48	119.51	109.07
1	k	117	ALA	N-CA-C	6.48	119.50	109.07
1	7	117	ALA	N-CA-C	6.48	119.50	109.07
1	C	117	ALA	N-CA-C	6.48	119.50	109.07
1	K	117	ALA	N-CA-C	6.47	119.49	109.07
1	b	117	ALA	N-CA-C	6.47	119.49	109.07
1	c	117	ALA	N-CA-C	6.47	119.49	109.07
1	e	117	ALA	N-CA-C	6.47	119.49	109.07
1	f	117	ALA	N-CA-C	6.47	119.49	109.07
1	m	117	ALA	N-CA-C	6.47	119.49	109.07
1	u	117	ALA	N-CA-C	6.47	119.49	109.07
1	4	117	ALA	N-CA-C	6.47	119.49	109.07
1	o	283	GLN	CA-C-N	5.85	126.94	120.45
1	o	283	GLN	C-N-CA	5.85	126.94	120.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	283	GLN	CA-C-N	5.85	126.94	120.45
1	a	283	GLN	C-N-CA	5.85	126.94	120.45
1	b	283	GLN	CA-C-N	5.85	126.94	120.45
1	b	283	GLN	C-N-CA	5.85	126.94	120.45
1	c	283	GLN	CA-C-N	5.85	126.94	120.45
1	c	283	GLN	C-N-CA	5.85	126.94	120.45
1	e	283	GLN	CA-C-N	5.85	126.94	120.45
1	e	283	GLN	C-N-CA	5.85	126.94	120.45
1	f	283	GLN	CA-C-N	5.85	126.94	120.45
1	f	283	GLN	C-N-CA	5.85	126.94	120.45
1	i	283	GLN	CA-C-N	5.85	126.94	120.45
1	i	283	GLN	C-N-CA	5.85	126.94	120.45
1	3	283	GLN	CA-C-N	5.85	126.94	120.45
1	3	283	GLN	C-N-CA	5.85	126.94	120.45
1	y	283	GLN	CA-C-N	5.84	126.93	120.45
1	y	283	GLN	C-N-CA	5.84	126.93	120.45
1	k	283	GLN	CA-C-N	5.83	126.93	120.45
1	k	283	GLN	C-N-CA	5.83	126.93	120.45
1	E	283	GLN	CA-C-N	5.83	126.92	120.45
1	E	283	GLN	C-N-CA	5.83	126.92	120.45
1	G	283	GLN	CA-C-N	5.83	126.92	120.45
1	G	283	GLN	C-N-CA	5.83	126.92	120.45
1	M	283	GLN	CA-C-N	5.83	126.92	120.45
1	M	283	GLN	C-N-CA	5.83	126.92	120.45
1	X	283	GLN	CA-C-N	5.83	126.92	120.45
1	X	283	GLN	C-N-CA	5.83	126.92	120.45
1	w	283	GLN	CA-C-N	5.83	126.92	120.45
1	w	283	GLN	C-N-CA	5.83	126.92	120.45
1	m	283	GLN	CA-C-N	5.83	126.92	120.45
1	m	283	GLN	C-N-CA	5.83	126.92	120.45
1	x	283	GLN	CA-C-N	5.83	126.92	120.45
1	x	283	GLN	C-N-CA	5.83	126.92	120.45
1	4	283	GLN	CA-C-N	5.83	126.92	120.45
1	4	283	GLN	C-N-CA	5.83	126.92	120.45
1	B	283	GLN	CA-C-N	5.83	126.92	120.45
1	B	283	GLN	C-N-CA	5.83	126.92	120.45
1	U	283	GLN	CA-C-N	5.83	126.92	120.45
1	U	283	GLN	C-N-CA	5.83	126.92	120.45
1	s	283	GLN	CA-C-N	5.83	126.92	120.45
1	s	283	GLN	C-N-CA	5.83	126.92	120.45
1	z	283	GLN	CA-C-N	5.83	126.92	120.45
1	z	283	GLN	C-N-CA	5.83	126.92	120.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	283	GLN	CA-C-N	5.83	126.92	120.45
1	T	283	GLN	C-N-CA	5.83	126.92	120.45
1	u	283	GLN	CA-C-N	5.83	126.92	120.45
1	u	283	GLN	C-N-CA	5.83	126.92	120.45
1	I	283	GLN	CA-C-N	5.82	126.91	120.45
1	I	283	GLN	C-N-CA	5.82	126.91	120.45
1	Q	283	GLN	CA-C-N	5.82	126.91	120.45
1	Q	283	GLN	C-N-CA	5.82	126.91	120.45
1	h	283	GLN	CA-C-N	5.82	126.91	120.45
1	h	283	GLN	C-N-CA	5.82	126.91	120.45
1	8	283	GLN	CA-C-N	5.82	126.91	120.45
1	8	283	GLN	C-N-CA	5.82	126.91	120.45
1	W	283	GLN	CA-C-N	5.81	126.90	120.45
1	W	283	GLN	C-N-CA	5.81	126.90	120.45
1	t	283	GLN	CA-C-N	5.81	126.90	120.45
1	t	283	GLN	C-N-CA	5.81	126.90	120.45
1	5	283	GLN	CA-C-N	5.81	126.90	120.45
1	5	283	GLN	C-N-CA	5.81	126.90	120.45
1	A	283	GLN	CA-C-N	5.81	126.90	120.45
1	A	283	GLN	C-N-CA	5.81	126.90	120.45
1	O	283	GLN	CA-C-N	5.81	126.90	120.45
1	O	283	GLN	C-N-CA	5.81	126.90	120.45
1	l	283	GLN	CA-C-N	5.81	126.90	120.45
1	l	283	GLN	C-N-CA	5.81	126.90	120.45
1	F	283	GLN	CA-C-N	5.81	126.90	120.45
1	F	283	GLN	C-N-CA	5.81	126.90	120.45
1	K	283	GLN	CA-C-N	5.80	126.89	120.45
1	K	283	GLN	C-N-CA	5.80	126.89	120.45
1	J	283	GLN	CA-C-N	5.80	126.89	120.45
1	J	283	GLN	C-N-CA	5.80	126.89	120.45
1	L	283	GLN	CA-C-N	5.80	126.89	120.45
1	L	283	GLN	C-N-CA	5.80	126.89	120.45
1	S	283	GLN	CA-C-N	5.80	126.89	120.45
1	S	283	GLN	C-N-CA	5.80	126.89	120.45
1	r	283	GLN	CA-C-N	5.80	126.89	120.45
1	r	283	GLN	C-N-CA	5.80	126.89	120.45
1	2	283	GLN	CA-C-N	5.80	126.89	120.45
1	2	283	GLN	C-N-CA	5.80	126.89	120.45
1	v	283	GLN	CA-C-N	5.80	126.89	120.45
1	v	283	GLN	C-N-CA	5.80	126.89	120.45
1	C	283	GLN	CA-C-N	5.79	126.88	120.45
1	C	283	GLN	C-N-CA	5.79	126.88	120.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	283	GLN	CA-C-N	5.79	126.88	120.45
1	V	283	GLN	C-N-CA	5.79	126.88	120.45
1	g	283	GLN	CA-C-N	5.79	126.88	120.45
1	g	283	GLN	C-N-CA	5.79	126.88	120.45
1	p	283	GLN	CA-C-N	5.79	126.88	120.45
1	p	283	GLN	C-N-CA	5.79	126.88	120.45
1	d	283	GLN	CA-C-N	5.79	126.87	120.45
1	d	283	GLN	C-N-CA	5.79	126.87	120.45
1	n	283	GLN	CA-C-N	5.79	126.87	120.45
1	n	283	GLN	C-N-CA	5.79	126.87	120.45
1	Z	283	GLN	CA-C-N	5.78	126.87	120.45
1	Z	283	GLN	C-N-CA	5.78	126.87	120.45
1	R	283	GLN	CA-C-N	5.78	126.86	120.45
1	R	283	GLN	C-N-CA	5.78	126.86	120.45
1	q	283	GLN	CA-C-N	5.78	126.86	120.45
1	q	283	GLN	C-N-CA	5.78	126.86	120.45
1	D	283	GLN	CA-C-N	5.78	126.86	120.45
1	D	283	GLN	C-N-CA	5.78	126.86	120.45
1	H	283	GLN	CA-C-N	5.78	126.86	120.45
1	H	283	GLN	C-N-CA	5.78	126.86	120.45
1	N	283	GLN	CA-C-N	5.78	126.86	120.45
1	N	283	GLN	C-N-CA	5.78	126.86	120.45
1	P	283	GLN	CA-C-N	5.78	126.86	120.45
1	P	283	GLN	C-N-CA	5.78	126.86	120.45
1	Y	283	GLN	CA-C-N	5.78	126.86	120.45
1	Y	283	GLN	C-N-CA	5.78	126.86	120.45
1	j	283	GLN	CA-C-N	5.78	126.86	120.45
1	j	283	GLN	C-N-CA	5.78	126.86	120.45
1	6	283	GLN	CA-C-N	5.78	126.86	120.45
1	6	283	GLN	C-N-CA	5.78	126.86	120.45
1	7	283	GLN	CA-C-N	5.78	126.86	120.45
1	7	283	GLN	C-N-CA	5.78	126.86	120.45
1	1	283	GLN	CA-C-N	5.74	126.82	120.45
1	1	283	GLN	C-N-CA	5.74	126.82	120.45
1	7	229	ASN	N-CA-C	5.58	118.37	110.50
1	8	229	ASN	N-CA-C	5.58	118.36	110.50
1	i	229	ASN	N-CA-C	5.58	118.36	110.50
1	N	229	ASN	N-CA-C	5.57	118.36	110.50
1	Y	229	ASN	N-CA-C	5.57	118.36	110.50
1	k	229	ASN	N-CA-C	5.57	118.36	110.50
1	d	229	ASN	N-CA-C	5.56	118.35	110.50
1	n	229	ASN	N-CA-C	5.56	118.35	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	330	ASP	N-CA-C	5.56	119.30	107.67
1	J	229	ASN	N-CA-C	5.56	118.34	110.50
1	S	229	ASN	N-CA-C	5.56	118.34	110.50
1	r	229	ASN	N-CA-C	5.56	118.34	110.50
1	2	229	ASN	N-CA-C	5.56	118.34	110.50
1	C	229	ASN	N-CA-C	5.56	118.34	110.50
1	I	229	ASN	N-CA-C	5.56	118.34	110.50
1	K	229	ASN	N-CA-C	5.56	118.34	110.50
1	V	229	ASN	N-CA-C	5.56	118.34	110.50
1	m	229	ASN	N-CA-C	5.56	118.34	110.50
1	p	229	ASN	N-CA-C	5.56	118.34	110.50
1	x	229	ASN	N-CA-C	5.56	118.34	110.50
1	4	229	ASN	N-CA-C	5.56	118.34	110.50
1	O	330	ASP	N-CA-C	5.56	119.28	107.67
1	L	330	ASP	N-CA-C	5.55	119.28	107.67
1	U	330	ASP	N-CA-C	5.55	119.28	107.67
1	s	330	ASP	N-CA-C	5.55	119.28	107.67
1	z	330	ASP	N-CA-C	5.55	119.28	107.67
1	5	229	ASN	N-CA-C	5.55	118.33	110.50
1	Z	229	ASN	N-CA-C	5.55	118.33	110.50
1	h	229	ASN	N-CA-C	5.55	118.33	110.50
1	t	229	ASN	N-CA-C	5.55	118.33	110.50
1	5	330	ASP	N-CA-C	5.55	119.27	107.67
1	6	330	ASP	N-CA-C	5.55	119.27	107.67
1	M	229	ASN	N-CA-C	5.55	118.33	110.50
1	w	229	ASN	N-CA-C	5.55	118.33	110.50
1	6	229	ASN	N-CA-C	5.55	118.32	110.50
1	F	229	ASN	N-CA-C	5.55	118.32	110.50
1	H	229	ASN	N-CA-C	5.55	118.32	110.50
1	P	229	ASN	N-CA-C	5.55	118.32	110.50
1	8	330	ASP	N-CA-C	5.55	119.26	107.67
1	I	330	ASP	N-CA-C	5.54	119.26	107.67
1	J	330	ASP	N-CA-C	5.54	119.26	107.67
1	K	330	ASP	N-CA-C	5.54	119.26	107.67
1	Q	330	ASP	N-CA-C	5.54	119.26	107.67
1	T	229	ASN	N-CA-C	5.54	118.32	110.50
1	u	330	ASP	N-CA-C	5.54	119.26	107.67
1	x	330	ASP	N-CA-C	5.54	119.26	107.67
1	A	229	ASN	N-CA-C	5.54	118.31	110.50
1	a	330	ASP	N-CA-C	5.54	119.25	107.67
1	b	229	ASN	N-CA-C	5.54	118.31	110.50
1	c	229	ASN	N-CA-C	5.54	118.31	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	330	ASP	N-CA-C	5.54	119.25	107.67
1	e	229	ASN	N-CA-C	5.54	118.31	110.50
1	f	229	ASN	N-CA-C	5.54	118.31	110.50
1	n	330	ASP	N-CA-C	5.54	119.26	107.67
1	y	229	ASN	N-CA-C	5.54	118.31	110.50
1	3	330	ASP	N-CA-C	5.54	119.25	107.67
1	A	330	ASP	N-CA-C	5.54	119.25	107.67
1	Q	229	ASN	N-CA-C	5.54	118.31	110.50
1	h	330	ASP	N-CA-C	5.54	119.25	107.67
1	j	229	ASN	N-CA-C	5.54	118.31	110.50
1	O	229	ASN	N-CA-C	5.54	118.31	110.50
1	R	330	ASP	N-CA-C	5.54	119.25	107.67
1	S	330	ASP	N-CA-C	5.54	119.25	107.67
1	l	229	ASN	N-CA-C	5.54	118.31	110.50
1	q	330	ASP	N-CA-C	5.54	119.25	107.67
1	r	330	ASP	N-CA-C	5.54	119.25	107.67
1	y	330	ASP	N-CA-C	5.54	119.25	107.67
1	1	330	ASP	N-CA-C	5.54	119.25	107.67
1	2	330	ASP	N-CA-C	5.54	119.25	107.67
1	H	330	ASP	N-CA-C	5.54	119.25	107.67
1	P	330	ASP	N-CA-C	5.54	119.25	107.67
1	B	229	ASN	N-CA-C	5.54	118.31	110.50
1	D	330	ASP	N-CA-C	5.54	119.24	107.67
1	N	330	ASP	N-CA-C	5.54	119.24	107.67
1	W	330	ASP	N-CA-C	5.54	119.24	107.67
1	Y	330	ASP	N-CA-C	5.54	119.24	107.67
1	i	330	ASP	N-CA-C	5.54	119.24	107.67
1	j	330	ASP	N-CA-C	5.54	119.24	107.67
1	k	330	ASP	N-CA-C	5.54	119.24	107.67
1	m	330	ASP	N-CA-C	5.54	119.24	107.67
1	4	330	ASP	N-CA-C	5.54	119.24	107.67
1	7	330	ASP	N-CA-C	5.54	119.24	107.67
1	D	229	ASN	N-CA-C	5.54	118.31	110.50
1	W	229	ASN	N-CA-C	5.54	118.31	110.50
1	g	229	ASN	N-CA-C	5.54	118.30	110.50
1	C	330	ASP	N-CA-C	5.53	119.23	107.67
1	V	330	ASP	N-CA-C	5.53	119.23	107.67
1	a	229	ASN	N-CA-C	5.53	118.30	110.50
1	g	330	ASP	N-CA-C	5.53	119.23	107.67
1	p	330	ASP	N-CA-C	5.53	119.23	107.67
1	3	229	ASN	N-CA-C	5.53	118.30	110.50
1	F	330	ASP	N-CA-C	5.53	119.23	107.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	330	ASP	N-CA-C	5.53	119.23	107.67
1	E	330	ASP	N-CA-C	5.53	119.22	107.67
1	G	330	ASP	N-CA-C	5.53	119.22	107.67
1	M	330	ASP	N-CA-C	5.53	119.22	107.67
1	X	330	ASP	N-CA-C	5.53	119.22	107.67
1	o	330	ASP	N-CA-C	5.53	119.22	107.67
1	l	330	ASP	N-CA-C	5.53	119.22	107.67
1	v	330	ASP	N-CA-C	5.53	119.22	107.67
1	w	330	ASP	N-CA-C	5.53	119.22	107.67
1	E	229	ASN	N-CA-C	5.52	118.29	110.50
1	G	229	ASN	N-CA-C	5.52	118.29	110.50
1	T	330	ASP	N-CA-C	5.52	119.22	107.67
1	X	229	ASN	N-CA-C	5.52	118.29	110.50
1	o	229	ASN	N-CA-C	5.52	118.29	110.50
1	B	330	ASP	N-CA-C	5.52	119.21	107.67
1	u	229	ASN	N-CA-C	5.52	118.28	110.50
1	L	229	ASN	N-CA-C	5.52	118.28	110.50
1	R	229	ASN	N-CA-C	5.52	118.28	110.50
1	b	330	ASP	N-CA-C	5.52	119.20	107.67
1	c	330	ASP	N-CA-C	5.52	119.20	107.67
1	e	330	ASP	N-CA-C	5.52	119.20	107.67
1	q	229	ASN	N-CA-C	5.52	118.28	110.50
1	s	229	ASN	N-CA-C	5.52	118.28	110.50
1	z	229	ASN	N-CA-C	5.52	118.28	110.50
1	1	229	ASN	N-CA-C	5.52	118.28	110.50
1	f	330	ASP	N-CA-C	5.51	119.20	107.67
1	U	229	ASN	N-CA-C	5.51	118.27	110.50
1	v	229	ASN	N-CA-C	5.51	118.27	110.50
1	B	334	TYR	N-CA-C	5.42	117.27	111.36
1	b	334	TYR	N-CA-C	5.42	117.26	111.36
1	c	334	TYR	N-CA-C	5.42	117.26	111.36
1	e	334	TYR	N-CA-C	5.42	117.26	111.36
1	R	334	TYR	N-CA-C	5.41	117.26	111.36
1	q	334	TYR	N-CA-C	5.41	117.26	111.36
1	1	334	TYR	N-CA-C	5.41	117.26	111.36
1	D	334	TYR	N-CA-C	5.41	117.25	111.36
1	S	334	TYR	N-CA-C	5.41	117.25	111.36
1	W	334	TYR	N-CA-C	5.41	117.25	111.36
1	r	334	TYR	N-CA-C	5.41	117.25	111.36
1	2	334	TYR	N-CA-C	5.41	117.25	111.36
1	i	374	VAL	CB-CA-C	-5.41	105.42	111.80
1	t	334	TYR	N-CA-C	5.41	117.25	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	374	VAL	CB-CA-C	-5.40	105.42	111.80
1	q	374	VAL	CB-CA-C	-5.40	105.42	111.80
1	x	374	VAL	CB-CA-C	-5.40	105.43	111.80
1	M	374	VAL	CB-CA-C	-5.40	105.43	111.80
1	X	374	VAL	CB-CA-C	-5.40	105.43	111.80
1	o	374	VAL	CB-CA-C	-5.40	105.43	111.80
1	8	374	VAL	CB-CA-C	-5.39	105.43	111.80
1	5	374	VAL	CB-CA-C	-5.39	105.44	111.80
1	I	374	VAL	CB-CA-C	-5.39	105.44	111.80
1	K	374	VAL	CB-CA-C	-5.39	105.44	111.80
1	Q	374	VAL	CB-CA-C	-5.39	105.44	111.80
1	U	334	TYR	N-CA-C	5.39	117.23	111.36
1	s	334	TYR	N-CA-C	5.39	117.23	111.36
1	v	334	TYR	N-CA-C	5.39	117.23	111.36
1	z	334	TYR	N-CA-C	5.39	117.23	111.36
1	Z	334	TYR	N-CA-C	5.39	117.23	111.36
1	l	334	TYR	N-CA-C	5.39	117.23	111.36
1	8	334	TYR	N-CA-C	5.39	117.23	111.36
1	J	334	TYR	N-CA-C	5.39	117.23	111.36
1	N	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	Y	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	a	334	TYR	N-CA-C	5.38	117.23	111.36
1	f	334	TYR	N-CA-C	5.38	117.23	111.36
1	n	334	TYR	N-CA-C	5.38	117.23	111.36
1	w	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	6	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	b	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	c	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	e	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	D	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	W	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	j	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	5	334	TYR	N-CA-C	5.38	117.22	111.36
1	7	374	VAL	CB-CA-C	-5.38	105.45	111.80
1	C	334	TYR	N-CA-C	5.38	117.22	111.36
1	E	334	TYR	N-CA-C	5.38	117.22	111.36
1	G	334	TYR	N-CA-C	5.38	117.22	111.36
1	I	334	TYR	N-CA-C	5.38	117.22	111.36
1	K	334	TYR	N-CA-C	5.38	117.22	111.36
1	M	334	TYR	N-CA-C	5.38	117.22	111.36
1	O	334	TYR	N-CA-C	5.38	117.22	111.36
1	Q	334	TYR	N-CA-C	5.38	117.22	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	334	TYR	N-CA-C	5.38	117.22	111.36
1	X	334	TYR	N-CA-C	5.38	117.22	111.36
1	g	334	TYR	N-CA-C	5.38	117.22	111.36
1	h	334	TYR	N-CA-C	5.38	117.22	111.36
1	m	334	TYR	N-CA-C	5.38	117.22	111.36
1	o	334	TYR	N-CA-C	5.38	117.22	111.36
1	p	334	TYR	N-CA-C	5.38	117.22	111.36
1	u	334	TYR	N-CA-C	5.38	117.22	111.36
1	w	334	TYR	N-CA-C	5.38	117.22	111.36
1	x	334	TYR	N-CA-C	5.38	117.22	111.36
1	4	334	TYR	N-CA-C	5.38	117.22	111.36
1	C	374	VAL	CB-CA-C	-5.38	105.46	111.80
1	L	374	VAL	CB-CA-C	-5.38	105.46	111.80
1	V	374	VAL	CB-CA-C	-5.38	105.46	111.80
1	g	374	VAL	CB-CA-C	-5.38	105.46	111.80
1	i	334	TYR	N-CA-C	5.38	117.22	111.36
1	p	374	VAL	CB-CA-C	-5.38	105.46	111.80
1	1	374	VAL	CB-CA-C	-5.38	105.46	111.80
1	6	334	TYR	N-CA-C	5.37	117.22	111.36
1	B	374	VAL	CB-CA-C	-5.37	105.46	111.80
1	E	374	VAL	CB-CA-C	-5.37	105.46	111.80
1	G	374	VAL	CB-CA-C	-5.37	105.46	111.80
1	J	374	VAL	CB-CA-C	-5.37	105.46	111.80
1	S	374	VAL	CB-CA-C	-5.37	105.46	111.80
1	r	374	VAL	CB-CA-C	-5.37	105.46	111.80
1	y	334	TYR	N-CA-C	5.37	117.22	111.36
1	2	374	VAL	CB-CA-C	-5.37	105.46	111.80
1	A	334	TYR	N-CA-C	5.37	117.21	111.36
1	H	334	TYR	N-CA-C	5.37	117.21	111.36
1	N	334	TYR	N-CA-C	5.37	117.21	111.36
1	P	334	TYR	N-CA-C	5.37	117.21	111.36
1	Y	334	TYR	N-CA-C	5.37	117.21	111.36
1	k	334	TYR	N-CA-C	5.37	117.21	111.36
1	7	334	TYR	N-CA-C	5.37	117.21	111.36
1	L	334	TYR	N-CA-C	5.37	117.21	111.36
1	T	374	VAL	CB-CA-C	-5.37	105.47	111.80
1	A	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	v	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	y	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	U	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	s	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	z	374	VAL	CB-CA-C	-5.36	105.47	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	d	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	n	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	3	374	VAL	CB-CA-C	-5.36	105.47	111.80
1	F	374	VAL	CB-CA-C	-5.36	105.48	111.80
1	f	374	VAL	CB-CA-C	-5.36	105.48	111.80
1	H	374	VAL	CB-CA-C	-5.36	105.48	111.80
1	P	374	VAL	CB-CA-C	-5.36	105.48	111.80
1	d	334	TYR	N-CA-C	5.36	117.20	111.36
1	3	334	TYR	N-CA-C	5.36	117.20	111.36
1	T	334	TYR	N-CA-C	5.35	117.19	111.36
1	u	374	VAL	CB-CA-C	-5.35	105.48	111.80
1	Z	374	VAL	CB-CA-C	-5.35	105.49	111.80
1	h	374	VAL	CB-CA-C	-5.35	105.49	111.80
1	l	374	VAL	CB-CA-C	-5.35	105.49	111.80
1	F	334	TYR	N-CA-C	5.34	117.19	111.36
1	j	334	TYR	N-CA-C	5.34	117.19	111.36
1	m	374	VAL	CB-CA-C	-5.34	105.50	111.80
1	4	374	VAL	CB-CA-C	-5.34	105.50	111.80
1	O	374	VAL	CB-CA-C	-5.34	105.50	111.80
1	k	374	VAL	CB-CA-C	-5.33	105.51	111.80
1	t	374	VAL	CB-CA-C	-5.32	105.53	111.80
1	6	66	TYR	N-CA-C	-5.20	102.16	109.96
1	j	66	TYR	N-CA-C	-5.19	102.17	109.96
1	u	66	TYR	N-CA-C	-5.19	102.17	109.96
1	5	66	TYR	N-CA-C	-5.19	102.17	109.96
1	J	66	TYR	N-CA-C	-5.19	102.18	109.96
1	L	66	TYR	N-CA-C	-5.19	102.18	109.96
1	S	66	TYR	N-CA-C	-5.19	102.18	109.96
1	U	66	TYR	N-CA-C	-5.19	102.18	109.96
1	r	66	TYR	N-CA-C	-5.19	102.18	109.96
1	s	66	TYR	N-CA-C	-5.19	102.18	109.96
1	z	66	TYR	N-CA-C	-5.19	102.18	109.96
1	2	66	TYR	N-CA-C	-5.19	102.18	109.96
1	g	66	TYR	N-CA-C	-5.19	102.18	109.96
1	7	66	TYR	N-CA-C	-5.18	102.19	109.96
1	b	66	TYR	N-CA-C	-5.18	102.19	109.96
1	c	66	TYR	N-CA-C	-5.18	102.19	109.96
1	d	66	TYR	N-CA-C	-5.18	102.19	109.96
1	f	66	TYR	N-CA-C	-5.18	102.19	109.96
1	y	66	TYR	N-CA-C	-5.18	102.19	109.96
1	3	66	TYR	N-CA-C	-5.18	102.19	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	66	TYR	N-CA-C	-5.18	102.19	109.96
1	A	66	TYR	N-CA-C	-5.17	102.20	109.96
1	E	66	TYR	N-CA-C	-5.17	102.20	109.96
1	F	66	TYR	N-CA-C	-5.17	102.20	109.96
1	G	66	TYR	N-CA-C	-5.17	102.20	109.96
1	M	66	TYR	N-CA-C	-5.17	102.20	109.96
1	X	66	TYR	N-CA-C	-5.17	102.20	109.96
1	i	66	TYR	N-CA-C	-5.17	102.20	109.96
1	o	66	TYR	N-CA-C	-5.17	102.20	109.96
1	w	66	TYR	N-CA-C	-5.17	102.20	109.96
1	I	66	TYR	N-CA-C	-5.17	102.21	109.96
1	K	66	TYR	N-CA-C	-5.17	102.21	109.96
1	Z	66	TYR	N-CA-C	-5.17	102.21	109.96
1	e	66	TYR	N-CA-C	-5.17	102.21	109.96
1	n	66	TYR	N-CA-C	-5.17	102.21	109.96
1	8	66	TYR	N-CA-C	-5.17	102.21	109.96
1	k	66	TYR	N-CA-C	-5.17	102.21	109.96
1	B	66	TYR	N-CA-C	-5.16	102.21	109.96
1	R	66	TYR	N-CA-C	-5.16	102.22	109.96
1	q	66	TYR	N-CA-C	-5.16	102.22	109.96
1	1	66	TYR	N-CA-C	-5.16	102.22	109.96
1	Q	66	TYR	N-CA-C	-5.16	102.22	109.96
1	x	66	TYR	N-CA-C	-5.16	102.22	109.96
1	N	66	TYR	N-CA-C	-5.16	102.22	109.96
1	Y	66	TYR	N-CA-C	-5.16	102.22	109.96
1	a	66	TYR	N-CA-C	-5.16	102.22	109.96
1	C	66	TYR	N-CA-C	-5.16	102.23	109.96
1	D	66	TYR	N-CA-C	-5.16	102.23	109.96
1	T	66	TYR	N-CA-C	-5.16	102.23	109.96
1	V	66	TYR	N-CA-C	-5.16	102.23	109.96
1	W	66	TYR	N-CA-C	-5.16	102.23	109.96
1	m	66	TYR	N-CA-C	-5.16	102.23	109.96
1	p	66	TYR	N-CA-C	-5.16	102.23	109.96
1	4	66	TYR	N-CA-C	-5.16	102.23	109.96
1	O	66	TYR	N-CA-C	-5.15	102.23	109.96
1	v	66	TYR	N-CA-C	-5.15	102.24	109.96
1	l	66	TYR	N-CA-C	-5.15	102.24	109.96
1	H	66	TYR	N-CA-C	-5.14	102.24	109.96
1	P	66	TYR	N-CA-C	-5.14	102.24	109.96
1	h	66	TYR	N-CA-C	-5.14	102.24	109.96
1	F	329	ASN	N-CA-C	5.04	116.85	111.36
1	t	329	ASN	N-CA-C	5.03	116.85	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	329	ASN	N-CA-C	5.03	116.84	111.36
1	s	329	ASN	N-CA-C	5.03	116.84	111.36
1	z	329	ASN	N-CA-C	5.03	116.84	111.36
1	t	286	LEU	CA-C-N	5.02	125.03	120.21
1	t	286	LEU	C-N-CA	5.02	125.03	120.21
1	u	329	ASN	N-CA-C	5.02	116.83	111.36
1	I	329	ASN	N-CA-C	5.01	116.82	111.36
1	Q	329	ASN	N-CA-C	5.01	116.82	111.36
1	Z	329	ASN	N-CA-C	5.01	116.82	111.36
1	u	286	LEU	CA-C-N	5.01	125.02	120.21
1	u	286	LEU	C-N-CA	5.01	125.02	120.21
1	8	329	ASN	N-CA-C	5.01	116.82	111.36
1	K	329	ASN	N-CA-C	5.00	116.81	111.36
1	j	286	LEU	CA-C-N	5.00	125.01	120.21
1	j	286	LEU	C-N-CA	5.00	125.01	120.21
1	k	329	ASN	N-CA-C	5.00	116.81	111.36
1	x	329	ASN	N-CA-C	5.00	116.81	111.36
1	5	329	ASN	N-CA-C	5.00	116.81	111.36

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	3991	0	3745	382	0
1	2	3991	0	3745	378	0
1	3	3991	0	3745	376	0
1	4	3991	0	3745	378	0
1	5	3991	0	3745	381	0
1	6	3991	0	3745	376	0
1	7	3991	0	3745	384	0
1	8	3991	0	3745	381	0
1	A	3991	0	3745	375	0
1	B	3991	0	3745	383	0
1	C	3991	0	3745	380	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	3991	0	3745	373	0
1	E	3991	0	3745	385	0
1	F	3991	0	3745	380	0
1	G	3991	0	3745	378	0
1	H	3991	0	3745	382	0
1	I	3991	0	3745	377	0
1	J	3991	0	3745	375	0
1	K	3991	0	3745	380	0
1	L	3991	0	3745	374	0
1	M	3991	0	3745	376	0
1	N	3991	0	3745	375	0
1	O	3991	0	3745	383	0
1	P	3991	0	3745	378	0
1	Q	3991	0	3745	383	0
1	R	3991	0	3745	377	0
1	S	3991	0	3745	382	0
1	T	3991	0	3745	382	0
1	U	3991	0	3745	380	0
1	V	3991	0	3745	379	0
1	W	3991	0	3745	375	0
1	X	3991	0	3745	377	0
1	Y	3991	0	3745	384	0
1	Z	3991	0	3745	378	0
1	a	3991	0	3745	377	0
1	b	3991	0	3745	377	0
1	c	3991	0	3745	379	0
1	d	3991	0	3745	379	0
1	e	3991	0	3745	379	0
1	f	3991	0	3745	376	0
1	g	3991	0	3745	381	0
1	h	3991	0	3745	377	0
1	i	3991	0	3745	375	0
1	j	3991	0	3745	381	0
1	k	3991	0	3745	375	0
1	l	3991	0	3745	382	0
1	m	3991	0	3745	381	0
1	n	3991	0	3745	378	0
1	o	3991	0	3745	377	0
1	p	3991	0	3745	380	0
1	q	3991	0	3745	377	0
1	r	3991	0	3745	385	0
1	s	3991	0	3745	380	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	t	3991	0	3745	381	0
1	u	3991	0	3745	379	0
1	v	3991	0	3745	377	0
1	w	3991	0	3745	385	0
1	x	3991	0	3745	383	0
1	y	3991	0	3745	382	0
1	z	3991	0	3745	376	0
2	1	2	0	0	0	0
2	2	2	0	0	0	0
2	3	2	0	0	0	0
2	4	2	0	0	0	0
2	5	2	0	0	0	0
2	6	2	0	0	0	0
2	7	2	0	0	0	0
2	8	2	0	0	0	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0
2	I	2	0	0	0	0
2	J	2	0	0	0	0
2	K	2	0	0	0	0
2	L	2	0	0	0	0
2	M	2	0	0	0	0
2	N	2	0	0	0	0
2	O	2	0	0	0	0
2	P	2	0	0	0	0
2	Q	2	0	0	0	0
2	R	2	0	0	0	0
2	S	2	0	0	0	0
2	T	2	0	0	0	0
2	U	2	0	0	0	0
2	V	2	0	0	0	0
2	W	2	0	0	0	0
2	X	2	0	0	0	0
2	Y	2	0	0	0	0
2	Z	2	0	0	0	0
2	a	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	b	2	0	0	0	0
2	c	2	0	0	0	0
2	d	2	0	0	0	0
2	e	2	0	0	0	0
2	f	2	0	0	0	0
2	g	2	0	0	0	0
2	h	2	0	0	0	0
2	i	2	0	0	0	0
2	j	2	0	0	0	0
2	k	2	0	0	0	0
2	l	2	0	0	0	0
2	m	2	0	0	0	0
2	n	2	0	0	0	0
2	o	2	0	0	0	0
2	p	2	0	0	0	0
2	q	2	0	0	0	0
2	r	2	0	0	0	0
2	s	2	0	0	0	0
2	t	2	0	0	0	0
2	u	2	0	0	0	0
2	v	2	0	0	0	0
2	w	2	0	0	0	0
2	x	2	0	0	0	0
2	y	2	0	0	0	0
2	z	2	0	0	0	0
All	All	239580	0	224700	17462	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 38.

All (17462) 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:U:164:TYR:OH	1:U:220:SER:OG	1.53	1.27
1:N:164:TYR:OH	1:N:220:SER:OG	1.53	1.27
1:g:164:TYR:OH	1:g:220:SER:OG	1.53	1.27
1:i:164:TYR:OH	1:i:220:SER:OG	1.53	1.27
1:m:164:TYR:OH	1:m:220:SER:OG	1.53	1.27
1:s:164:TYR:OH	1:s:220:SER:OG	1.53	1.27
1:C:164:TYR:OH	1:C:220:SER:OG	1.53	1.27
1:T:164:TYR:OH	1:T:220:SER:OG	1.53	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:164:TYR:OH	1:c:220:SER:OG	1.53	1.27
1:e:164:TYR:OH	1:e:220:SER:OG	1.53	1.27
1:q:164:TYR:OH	1:q:220:SER:OG	1.53	1.27
1:R:164:TYR:OH	1:R:220:SER:OG	1.53	1.27
1:k:164:TYR:OH	1:k:220:SER:OG	1.53	1.27
1:D:164:TYR:OH	1:D:220:SER:OG	1.53	1.26
1:z:164:TYR:OH	1:z:220:SER:OG	1.53	1.26
1:A:164:TYR:OH	1:A:220:SER:OG	1.53	1.26
1:K:164:TYR:OH	1:K:220:SER:OG	1.53	1.26
1:W:164:TYR:OH	1:W:220:SER:OG	1.53	1.26
1:a:164:TYR:OH	1:a:220:SER:OG	1.53	1.26
1:H:164:TYR:OH	1:H:220:SER:OG	1.53	1.26
1:J:164:TYR:OH	1:J:220:SER:OG	1.53	1.26
1:L:164:TYR:OH	1:L:220:SER:OG	1.53	1.26
1:v:164:TYR:OH	1:v:220:SER:OG	1.53	1.26
1:w:164:TYR:OH	1:w:220:SER:OG	1.53	1.26
1:y:164:TYR:OH	1:y:220:SER:OG	1.53	1.26
1:2:164:TYR:OH	1:2:220:SER:OG	1.53	1.26
1:4:164:TYR:OH	1:4:220:SER:OG	1.53	1.26
1:6:164:TYR:OH	1:6:220:SER:OG	1.53	1.26
1:E:164:TYR:OH	1:E:220:SER:OG	1.53	1.26
1:F:164:TYR:OH	1:F:220:SER:OG	1.53	1.26
1:3:164:TYR:OH	1:3:220:SER:OG	1.53	1.26
1:P:164:TYR:OH	1:P:220:SER:OG	1.53	1.26
1:d:164:TYR:OH	1:d:220:SER:OG	1.53	1.26
1:u:164:TYR:OH	1:u:220:SER:OG	1.53	1.26
1:5:164:TYR:OH	1:5:220:SER:OG	1.53	1.26
1:I:164:TYR:OH	1:I:220:SER:OG	1.53	1.25
1:G:164:TYR:OH	1:G:220:SER:OG	1.53	1.25
1:j:164:TYR:OH	1:j:220:SER:OG	1.53	1.25
1:n:164:TYR:OH	1:n:220:SER:OG	1.53	1.25
1:t:164:TYR:OH	1:t:220:SER:OG	1.53	1.25
1:Q:164:TYR:OH	1:Q:220:SER:OG	1.53	1.23
1:f:164:TYR:OH	1:f:220:SER:OG	1.53	1.23
1:x:164:TYR:OH	1:x:220:SER:OG	1.53	1.23
1:b:164:TYR:OH	1:b:220:SER:OG	1.53	1.23
1:S:164:TYR:OH	1:S:220:SER:OG	1.53	1.22
1:h:164:TYR:OH	1:h:220:SER:OG	1.53	1.22
1:V:164:TYR:OH	1:V:220:SER:OG	1.53	1.22
1:p:164:TYR:OH	1:p:220:SER:OG	1.53	1.22
1:r:164:TYR:OH	1:r:220:SER:OG	1.53	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:164:TYR:OH	1:M:220:SER:OG	1.53	1.22
1:O:164:TYR:OH	1:O:220:SER:OG	1.53	1.22
1:1:164:TYR:OH	1:1:220:SER:OG	1.53	1.22
1:B:164:TYR:OH	1:B:220:SER:OG	1.53	1.21
1:Z:164:TYR:OH	1:Z:220:SER:OG	1.53	1.21
1:l:164:TYR:OH	1:l:220:SER:OG	1.53	1.21
1:8:164:TYR:OH	1:8:220:SER:OG	1.53	1.21
1:X:164:TYR:OH	1:X:220:SER:OG	1.53	1.21
1:Y:164:TYR:OH	1:Y:220:SER:OG	1.53	1.21
1:7:164:TYR:OH	1:7:220:SER:OG	1.53	1.21
1:o:164:TYR:OH	1:o:220:SER:OG	1.53	1.20
1:t:458:TYR:HE1	1:y:183:ILE:HD11	1.13	1.12
1:A:458:TYR:HE1	1:B:183:ILE:HD11	1.14	1.11
1:F:458:TYR:HE1	1:R:183:ILE:HD11	1.16	1.11
1:I:183:ILE:HD11	1:J:458:TYR:HE1	1.16	1.11
1:u:183:ILE:HD11	1:2:458:TYR:HE1	1.16	1.11
1:O:183:ILE:HD11	1:P:458:TYR:HE1	1.16	1.11
1:q:183:ILE:HD11	1:y:458:TYR:HE1	1.16	1.11
1:j:458:TYR:HE1	1:l:183:ILE:HD11	1.16	1.10
1:R:458:TYR:HE1	1:V:183:ILE:HD11	1.16	1.10
1:Q:183:ILE:HD11	1:S:458:TYR:HE1	1.16	1.10
1:j:183:ILE:HD11	1:x:458:TYR:HE1	1.16	1.10
1:p:183:ILE:HD11	1:q:458:TYR:HE1	1.16	1.10
1:S:183:ILE:HD11	1:d:458:TYR:HE1	1.16	1.10
1:r:458:TYR:HE1	1:x:183:ILE:HD11	1.16	1.10
1:P:183:ILE:HD11	1:Q:458:TYR:HE1	1.16	1.10
1:n:458:TYR:HE1	1:r:183:ILE:HD11	1.16	1.10
1:v:458:TYR:HE1	1:1:183:ILE:HD11	1.16	1.09
1:G:183:ILE:HD11	1:W:458:TYR:HE1	1.16	1.08
1:Z:458:TYR:HE1	1:a:183:ILE:HD11	1.16	1.08
1:V:458:TYR:HE1	1:W:183:ILE:HD11	1.16	1.08
1:F:183:ILE:HD11	1:G:458:TYR:HE1	1.16	1.08
1:H:458:TYR:HE1	1:Z:183:ILE:HD11	1.16	1.08
1:3:183:ILE:HD11	1:8:458:TYR:HE1	1.16	1.08
1:k:458:TYR:HE1	1:w:183:ILE:HD11	1.16	1.08
1:p:458:TYR:HE1	1:6:183:ILE:HD11	1.16	1.08
1:K:458:TYR:HE1	1:7:183:ILE:HD11	1.16	1.07
1:u:458:TYR:HE1	1:5:183:ILE:HD11	1.16	1.07
1:H:183:ILE:HD11	1:I:458:TYR:HE1	1.16	1.07
1:5:458:TYR:HE1	1:8:183:ILE:HD11	1.16	1.07
1:D:458:TYR:HE1	1:E:183:ILE:HD11	1.16	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:183:ILE:HD11	1:4:458:TYR:HE1	1.16	1.07
1:K:183:ILE:HD11	1:L:458:TYR:HE1	1.16	1.06
1:L:183:ILE:HD11	1:b:458:TYR:HE1	1.16	1.06
1:2:183:ILE:HD11	1:3:458:TYR:HE1	1.16	1.06
1:c:458:TYR:HE1	1:s:183:ILE:HD11	1.16	1.06
1:f:458:TYR:HE1	1:z:183:ILE:HD11	1.16	1.06
1:g:458:TYR:HE1	1:k:183:ILE:HD11	1.16	1.06
1:z:458:TYR:HE1	1:4:183:ILE:HD11	1.16	1.06
1:C:458:TYR:HE1	1:D:183:ILE:HD11	1.16	1.06
1:J:183:ILE:HD11	1:a:458:TYR:HE1	1.16	1.06
1:T:183:ILE:HD11	1:U:458:TYR:HE1	1.16	1.06
1:t:183:ILE:HD11	1:6:458:TYR:HE1	1.17	1.06
1:B:458:TYR:HE1	1:C:183:ILE:HD11	1.16	1.05
1:U:183:ILE:HD11	1:e:458:TYR:HE1	1.16	1.05
1:e:183:ILE:HD11	1:h:458:TYR:HE1	1.16	1.05
1:M:458:TYR:HE1	1:c:183:ILE:HD11	1.16	1.05
1:N:183:ILE:HD11	1:m:458:TYR:HE1	1.16	1.05
1:g:183:ILE:HD11	1:1:458:TYR:HE1	1.16	1.05
1:m:183:ILE:HD11	1:s:458:TYR:HE1	1.16	1.05
1:T:458:TYR:HE1	1:i:183:ILE:HD11	1.16	1.05
1:l:458:TYR:HE1	1:n:183:ILE:HD11	1.16	1.05
1:O:458:TYR:HE1	1:d:183:ILE:HD11	1.16	1.04
1:X:183:ILE:HD11	1:Y:458:TYR:HE1	1.16	1.04
1:o:183:ILE:HD11	1:7:458:TYR:HE1	1.16	1.04
1:v:183:ILE:HD11	1:w:458:TYR:HE1	1.16	1.04
1:A:183:ILE:HD11	1:E:458:TYR:HE1	1.16	1.03
1:h:183:ILE:HD11	1:i:458:TYR:HE1	1.16	1.03
1:M:183:ILE:HD11	1:N:458:TYR:HE1	1.16	1.03
1:b:183:ILE:HD11	1:o:458:TYR:HE1	1.16	1.02
1:X:458:TYR:HE1	1:f:183:ILE:HD11	1.16	1.02
1:A:149:ASP:OD1	1:B:148:ASN:ND2	1.95	0.99
1:v:149:ASP:OD1	1:1:148:ASN:ND2	1.97	0.98
1:C:149:ASP:OD1	1:D:148:ASN:ND2	1.97	0.98
1:A:336:GLN:NE2	1:A:431:MET:O	1.97	0.98
1:X:148:ASN:ND2	1:Y:149:ASP:OD1	1.97	0.98
1:Y:336:GLN:NE2	1:Y:431:MET:O	1.97	0.98
1:7:336:GLN:NE2	1:7:431:MET:O	1.97	0.98
1:L:336:GLN:NE2	1:L:431:MET:O	1.97	0.98
1:R:336:GLN:NE2	1:R:431:MET:O	1.97	0.98
1:T:148:ASN:ND2	1:U:149:ASP:OD1	1.97	0.98
1:g:149:ASP:OD1	1:k:148:ASN:ND2	1.97	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:148:ASN:ND2	1:s:149:ASP:OD1	1.97	0.98
1:q:336:GLN:NE2	1:q:431:MET:O	1.97	0.98
1:v:336:GLN:NE2	1:v:431:MET:O	1.97	0.98
1:z:336:GLN:NE2	1:z:431:MET:O	1.97	0.98
1:o:148:ASN:ND2	1:7:149:ASP:OD1	1.97	0.98
1:v:148:ASN:ND2	1:w:149:ASP:OD1	1.97	0.98
1:O:148:ASN:ND2	1:P:149:ASP:OD1	1.96	0.98
1:S:336:GLN:NE2	1:S:431:MET:O	1.97	0.98
1:V:336:GLN:NE2	1:V:431:MET:O	1.97	0.98
1:d:336:GLN:NE2	1:d:431:MET:O	1.97	0.98
1:p:336:GLN:NE2	1:p:431:MET:O	1.97	0.98
1:r:336:GLN:NE2	1:r:431:MET:O	1.97	0.98
1:Q:168:LEU:HD22	1:Q:417:GLU:HB3	1.46	0.98
1:V:168:LEU:HD22	1:V:417:GLU:HB3	1.46	0.98
1:n:336:GLN:NE2	1:n:431:MET:O	1.97	0.98
1:5:336:GLN:NE2	1:5:431:MET:O	1.97	0.98
1:H:336:GLN:NE2	1:H:431:MET:O	1.97	0.98
1:I:148:ASN:ND2	1:J:149:ASP:OD1	1.97	0.98
1:M:149:ASP:OD1	1:c:148:ASN:ND2	1.97	0.98
1:h:148:ASN:ND2	1:i:149:ASP:OD1	1.97	0.98
1:p:148:ASN:ND2	1:q:149:ASP:OD1	1.97	0.98
1:p:168:LEU:HD22	1:p:417:GLU:HB3	1.46	0.98
1:t:458:TYR:CE1	1:y:183:ILE:HD11	1.98	0.98
1:x:168:LEU:HD22	1:x:417:GLU:HB3	1.46	0.98
1:M:168:LEU:HD22	1:M:417:GLU:HB3	1.46	0.98
1:R:149:ASP:OD1	1:V:148:ASN:ND2	1.97	0.98
1:U:148:ASN:ND2	1:e:149:ASP:OD1	1.97	0.98
1:Y:168:LEU:HD22	1:Y:417:GLU:HB3	1.46	0.98
1:7:168:LEU:HD22	1:7:417:GLU:HB3	1.46	0.98
1:K:149:ASP:OD1	1:7:148:ASN:ND2	1.97	0.97
1:M:148:ASN:ND2	1:N:149:ASP:OD1	1.97	0.97
1:c:149:ASP:OD1	1:s:148:ASN:ND2	1.97	0.97
1:e:148:ASN:ND2	1:h:149:ASP:OD1	1.97	0.97
1:g:336:GLN:NE2	1:g:431:MET:O	1.97	0.97
1:j:149:ASP:OD1	1:l:148:ASN:ND2	1.97	0.97
1:u:148:ASN:ND2	1:2:149:ASP:OD1	1.97	0.97
1:G:148:ASN:ND2	1:W:149:ASP:OD1	1.97	0.97
1:G:336:GLN:NE2	1:G:431:MET:O	1.97	0.97
1:W:336:GLN:NE2	1:W:431:MET:O	1.97	0.97
1:Y:148:ASN:ND2	1:4:149:ASP:OD1	1.97	0.97
1:g:148:ASN:ND2	1:1:149:ASP:OD1	1.97	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:168:LEU:HD22	1:h:417:GLU:HB3	1.46	0.97
1:h:336:GLN:NE2	1:h:431:MET:O	1.97	0.97
1:B:149:ASP:OD1	1:C:148:ASN:ND2	1.97	0.97
1:C:336:GLN:NE2	1:C:431:MET:O	1.97	0.97
1:J:168:LEU:HD22	1:J:417:GLU:HB3	1.46	0.97
1:M:336:GLN:NE2	1:M:431:MET:O	1.97	0.97
1:W:168:LEU:HD22	1:W:417:GLU:HB3	1.46	0.97
1:s:168:LEU:HD22	1:s:417:GLU:HB3	1.46	0.97
1:t:149:ASP:OD1	1:y:148:ASN:ND2	1.97	0.97
1:t:336:GLN:NE2	1:t:431:MET:O	1.97	0.97
1:2:336:GLN:NE2	1:2:431:MET:O	1.97	0.97
1:6:168:LEU:HD22	1:6:417:GLU:HB3	1.46	0.97
1:6:336:GLN:NE2	1:6:431:MET:O	1.97	0.97
1:J:336:GLN:NE2	1:J:431:MET:O	1.97	0.97
1:U:168:LEU:HD22	1:U:417:GLU:HB3	1.46	0.97
1:c:336:GLN:NE2	1:c:431:MET:O	1.97	0.97
1:A:148:ASN:ND2	1:E:149:ASP:OD1	1.98	0.97
1:K:336:GLN:NE2	1:K:431:MET:O	1.97	0.97
1:Q:336:GLN:NE2	1:Q:431:MET:O	1.97	0.97
1:U:336:GLN:NE2	1:U:431:MET:O	1.97	0.97
1:Z:149:ASP:OD1	1:a:148:ASN:ND2	1.97	0.97
1:g:168:LEU:HD22	1:g:417:GLU:HB3	1.46	0.97
1:k:336:GLN:NE2	1:k:431:MET:O	1.97	0.97
1:2:168:LEU:HD22	1:2:417:GLU:HB3	1.46	0.97
1:D:336:GLN:NE2	1:D:431:MET:O	1.97	0.97
1:I:168:LEU:HD22	1:I:417:GLU:HB3	1.46	0.97
1:I:336:GLN:NE2	1:I:431:MET:O	1.97	0.97
1:X:168:LEU:HD22	1:X:417:GLU:HB3	1.46	0.97
1:X:336:GLN:NE2	1:X:431:MET:O	1.97	0.97
1:d:168:LEU:HD22	1:d:417:GLU:HB3	1.46	0.97
1:e:336:GLN:NE2	1:e:431:MET:O	1.97	0.97
1:o:168:LEU:HD22	1:o:417:GLU:HB3	1.46	0.97
1:o:336:GLN:NE2	1:o:431:MET:O	1.97	0.97
1:s:336:GLN:NE2	1:s:431:MET:O	1.97	0.97
1:2:148:ASN:ND2	1:3:149:ASP:OD1	1.97	0.97
1:3:148:ASN:ND2	1:8:149:ASP:OD1	1.97	0.97
1:4:336:GLN:NE2	1:4:431:MET:O	1.97	0.97
1:C:168:LEU:HD22	1:C:417:GLU:HB3	1.46	0.97
1:b:336:GLN:NE2	1:b:431:MET:O	1.97	0.97
1:f:336:GLN:NE2	1:f:431:MET:O	1.97	0.97
1:i:336:GLN:NE2	1:i:431:MET:O	1.97	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:336:GLN:NE2	1:x:431:MET:O	1.97	0.97
1:z:168:LEU:HD22	1:z:417:GLU:HB3	1.46	0.97
1:A:458:TYR:CE1	1:B:183:ILE:HD11	1.99	0.97
1:N:336:GLN:NE2	1:N:431:MET:O	1.97	0.97
1:u:168:LEU:HD22	1:u:417:GLU:HB3	1.46	0.97
1:u:336:GLN:NE2	1:u:431:MET:O	1.97	0.97
1:w:168:LEU:HD22	1:w:417:GLU:HB3	1.46	0.97
1:D:168:LEU:HD22	1:D:417:GLU:HB3	1.46	0.97
1:J:148:ASN:ND2	1:a:149:ASP:OD1	1.97	0.97
1:L:168:LEU:HD22	1:L:417:GLU:HB3	1.46	0.97
1:n:168:LEU:HD22	1:n:417:GLU:HB3	1.46	0.97
1:E:336:GLN:NE2	1:E:431:MET:O	1.97	0.97
1:F:148:ASN:ND2	1:G:149:ASP:OD1	1.97	0.97
1:K:148:ASN:ND2	1:L:149:ASP:OD1	1.97	0.97
1:P:168:LEU:HD22	1:P:417:GLU:HB3	1.46	0.97
1:Q:148:ASN:ND2	1:S:149:ASP:OD1	1.97	0.97
1:Z:336:GLN:NE2	1:Z:431:MET:O	1.97	0.97
1:r:149:ASP:OD1	1:x:148:ASN:ND2	1.97	0.97
1:8:336:GLN:NE2	1:8:431:MET:O	1.97	0.97
1:E:168:LEU:HD22	1:E:417:GLU:HB3	1.46	0.96
1:O:336:GLN:NE2	1:O:431:MET:O	1.97	0.96
1:b:148:ASN:ND2	1:o:149:ASP:OD1	1.97	0.96
1:j:148:ASN:ND2	1:x:149:ASP:OD1	1.97	0.96
1:j:168:LEU:HD22	1:j:417:GLU:HB3	1.46	0.96
1:k:168:LEU:HD22	1:k:417:GLU:HB3	1.46	0.96
1:F:336:GLN:NE2	1:F:431:MET:O	1.97	0.96
1:H:148:ASN:ND2	1:I:149:ASP:OD1	1.97	0.96
1:H:149:ASP:OD1	1:Z:148:ASN:ND2	1.96	0.96
1:N:168:LEU:HD22	1:N:417:GLU:HB3	1.46	0.96
1:P:148:ASN:ND2	1:Q:149:ASP:OD1	1.97	0.96
1:S:148:ASN:ND2	1:d:149:ASP:OD1	1.97	0.96
1:X:149:ASP:OD1	1:f:148:ASN:ND2	1.97	0.96
1:i:168:LEU:HD22	1:i:417:GLU:HB3	1.46	0.96
1:w:336:GLN:NE2	1:w:431:MET:O	1.97	0.96
1:z:149:ASP:OD1	1:4:148:ASN:ND2	1.97	0.96
1:5:149:ASP:OD1	1:8:148:ASN:ND2	1.97	0.96
1:B:336:GLN:NE2	1:B:431:MET:O	1.97	0.96
1:K:168:LEU:HD22	1:K:417:GLU:HB3	1.46	0.96
1:T:168:LEU:HD22	1:T:417:GLU:HB3	1.46	0.96
1:T:458:TYR:CE1	1:i:183:ILE:HD11	2.01	0.96
1:Z:458:TYR:CE1	1:a:183:ILE:HD11	2.01	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:336:GLN:NE2	1:l:431:MET:O	1.97	0.96
1:n:149:ASP:OD1	1:r:148:ASN:ND2	1.97	0.96
1:4:168:LEU:HD22	1:4:417:GLU:HB3	1.46	0.96
1:H:168:LEU:HD22	1:H:417:GLU:HB3	1.46	0.96
1:N:183:ILE:HD11	1:m:458:TYR:CE1	2.01	0.96
1:m:168:LEU:HD22	1:m:417:GLU:HB3	1.46	0.96
1:u:149:ASP:OD1	1:5:148:ASN:ND2	1.97	0.96
1:y:336:GLN:NE2	1:y:431:MET:O	1.97	0.96
1:1:336:GLN:NE2	1:1:431:MET:O	1.97	0.96
1:3:183:ILE:HD11	1:8:458:TYR:CE1	2.01	0.96
1:5:168:LEU:HD22	1:5:417:GLU:HB3	1.46	0.96
1:A:298:ALA:O	1:I:269:ARG:NH1	1.99	0.96
1:B:326:ARG:NH1	1:B:328:GLU:OE2	1.99	0.96
1:L:183:ILE:HD11	1:b:458:TYR:CE1	2.01	0.96
1:P:336:GLN:NE2	1:P:431:MET:O	1.97	0.96
1:a:336:GLN:NE2	1:a:431:MET:O	1.97	0.96
1:f:458:TYR:CE1	1:z:183:ILE:HD11	2.01	0.96
1:h:183:ILE:HD11	1:i:458:TYR:CE1	2.01	0.96
1:l:458:TYR:CE1	1:n:183:ILE:HD11	2.01	0.96
1:H:326:ARG:NH1	1:H:328:GLU:OE2	1.99	0.96
1:M:183:ILE:HD11	1:N:458:TYR:CE1	2.01	0.96
1:d:326:ARG:NH1	1:d:328:GLU:OE2	1.99	0.96
1:j:336:GLN:NE2	1:j:431:MET:O	1.97	0.96
1:n:326:ARG:NH1	1:n:328:GLU:OE2	1.99	0.96
1:o:326:ARG:NH1	1:o:328:GLU:OE2	1.99	0.96
1:p:149:ASP:OD1	1:6:148:ASN:ND2	1.97	0.96
1:v:183:ILE:HD11	1:w:458:TYR:CE1	2.01	0.96
1:2:326:ARG:NH1	1:2:328:GLU:OE2	1.99	0.96
1:E:326:ARG:NH1	1:E:328:GLU:OE2	1.99	0.96
1:F:149:ASP:OD1	1:R:148:ASN:ND2	1.97	0.96
1:I:326:ARG:NH1	1:I:328:GLU:OE2	1.99	0.96
1:J:326:ARG:NH1	1:J:328:GLU:OE2	1.99	0.96
1:X:326:ARG:NH1	1:X:328:GLU:OE2	1.99	0.96
1:e:183:ILE:HD11	1:h:458:TYR:CE1	2.01	0.96
1:v:168:LEU:HD22	1:v:417:GLU:HB3	1.46	0.96
1:w:326:ARG:NH1	1:w:328:GLU:OE2	1.99	0.96
1:1:326:ARG:NH1	1:1:328:GLU:OE2	1.99	0.96
1:3:336:GLN:NE2	1:3:431:MET:O	1.97	0.96
1:4:326:ARG:NH1	1:4:328:GLU:OE2	1.99	0.96
1:5:326:ARG:NH1	1:5:328:GLU:OE2	1.99	0.96
1:5:458:TYR:CE1	1:8:183:ILE:HD11	2.01	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:326:ARG:NH1	1:G:328:GLU:OE2	1.99	0.96
1:H:458:TYR:CE1	1:Z:183:ILE:HD11	2.01	0.96
1:K:326:ARG:NH1	1:K:328:GLU:OE2	1.99	0.96
1:M:458:TYR:CE1	1:c:183:ILE:HD11	2.01	0.96
1:O:458:TYR:CE1	1:d:183:ILE:HD11	2.01	0.96
1:Q:183:ILE:HD11	1:S:458:TYR:CE1	2.01	0.96
1:U:326:ARG:NH1	1:U:328:GLU:OE2	1.99	0.96
1:V:458:TYR:CE1	1:W:183:ILE:HD11	2.01	0.96
1:f:149:ASP:OD1	1:z:148:ASN:ND2	1.97	0.96
1:k:149:ASP:OD1	1:w:148:ASN:ND2	1.97	0.96
1:l:149:ASP:OD1	1:n:148:ASN:ND2	1.97	0.96
1:m:336:GLN:NE2	1:m:431:MET:O	1.97	0.96
1:r:458:TYR:CE1	1:x:183:ILE:HD11	2.01	0.96
1:s:326:ARG:NH1	1:s:328:GLU:OE2	1.99	0.96
1:t:326:ARG:NH1	1:t:328:GLU:OE2	1.99	0.96
1:u:326:ARG:NH1	1:u:328:GLU:OE2	1.99	0.96
1:D:149:ASP:OD1	1:E:148:ASN:ND2	1.97	0.96
1:F:458:TYR:CE1	1:R:183:ILE:HD11	2.01	0.96
1:N:148:ASN:ND2	1:m:149:ASP:OD1	1.97	0.96
1:O:149:ASP:OD1	1:d:148:ASN:ND2	1.97	0.96
1:P:326:ARG:NH1	1:P:328:GLU:OE2	1.99	0.96
1:V:149:ASP:OD1	1:W:148:ASN:ND2	1.97	0.96
1:b:326:ARG:NH1	1:b:328:GLU:OE2	1.99	0.96
1:j:326:ARG:NH1	1:j:328:GLU:OE2	1.99	0.96
1:v:326:ARG:NH1	1:v:328:GLU:OE2	1.99	0.96
1:A:168:LEU:HD22	1:A:417:GLU:HB3	1.46	0.95
1:A:183:ILE:HD11	1:E:458:TYR:CE1	2.01	0.95
1:A:326:ARG:NH1	1:A:328:GLU:OE2	1.99	0.95
1:D:326:ARG:NH1	1:D:328:GLU:OE2	1.99	0.95
1:I:183:ILE:HD11	1:J:458:TYR:CE1	2.01	0.95
1:L:148:ASN:ND2	1:b:149:ASP:OD1	1.97	0.95
1:R:168:LEU:HD22	1:R:417:GLU:HB3	1.46	0.95
1:S:168:LEU:HD22	1:S:417:GLU:HB3	1.46	0.95
1:T:336:GLN:NE2	1:T:431:MET:O	1.97	0.95
1:f:326:ARG:NH1	1:f:328:GLU:OE2	1.99	0.95
1:j:183:ILE:HD11	1:x:458:TYR:CE1	2.01	0.95
1:k:326:ARG:NH1	1:k:328:GLU:OE2	1.99	0.95
1:p:458:TYR:CE1	1:6:183:ILE:HD11	2.01	0.95
1:q:148:ASN:ND2	1:y:149:ASP:OD1	1.97	0.95
1:r:168:LEU:HD22	1:r:417:GLU:HB3	1.46	0.95
1:u:183:ILE:HD11	1:2:458:TYR:CE1	2.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:326:ARG:NH1	1:F:328:GLU:OE2	1.99	0.95
1:P:183:ILE:HD11	1:Q:458:TYR:CE1	2.01	0.95
1:Q:326:ARG:NH1	1:Q:328:GLU:OE2	1.99	0.95
1:Z:326:ARG:NH1	1:Z:328:GLU:OE2	1.99	0.95
1:q:168:LEU:HD22	1:q:417:GLU:HB3	1.46	0.95
1:q:183:ILE:HD11	1:y:458:TYR:CE1	2.01	0.95
1:F:183:ILE:HD11	1:G:458:TYR:CE1	2.01	0.95
1:K:458:TYR:CE1	1:7:183:ILE:HD11	2.01	0.95
1:O:168:LEU:HD22	1:O:417:GLU:HB3	1.46	0.95
1:T:149:ASP:OD1	1:i:148:ASN:ND2	1.97	0.95
1:Y:326:ARG:NH1	1:Y:328:GLU:OE2	1.99	0.95
1:x:326:ARG:NH1	1:x:328:GLU:OE2	1.99	0.95
1:y:326:ARG:NH1	1:y:328:GLU:OE2	1.99	0.95
1:6:326:ARG:NH1	1:6:328:GLU:OE2	1.99	0.95
1:7:326:ARG:NH1	1:7:328:GLU:OE2	1.99	0.95
1:8:326:ARG:NH1	1:8:328:GLU:OE2	1.99	0.95
1:W:326:ARG:NH1	1:W:328:GLU:OE2	1.99	0.95
1:v:458:TYR:CE1	1:1:183:ILE:HD11	2.01	0.95
1:2:183:ILE:HD11	1:3:458:TYR:CE1	2.01	0.95
1:J:183:ILE:HD11	1:a:458:TYR:CE1	2.01	0.95
1:N:326:ARG:NH1	1:N:328:GLU:OE2	1.99	0.95
1:T:183:ILE:HD11	1:U:458:TYR:CE1	2.01	0.95
1:G:168:LEU:HD22	1:G:417:GLU:HB3	1.46	0.95
1:T:326:ARG:NH1	1:T:328:GLU:OE2	1.99	0.95
1:Y:183:ILE:HD11	1:4:458:TYR:CE1	2.01	0.95
1:e:168:LEU:HD22	1:e:417:GLU:HB3	1.46	0.95
1:m:326:ARG:NH1	1:m:328:GLU:OE2	1.99	0.95
1:B:458:TYR:CE1	1:C:183:ILE:HD11	2.01	0.95
1:H:183:ILE:HD11	1:I:458:TYR:CE1	2.01	0.95
1:c:326:ARG:NH1	1:c:328:GLU:OE2	1.99	0.95
1:e:326:ARG:NH1	1:e:328:GLU:OE2	1.99	0.95
1:g:183:ILE:HD11	1:1:458:TYR:CE1	2.01	0.95
1:i:326:ARG:NH1	1:i:328:GLU:OE2	1.99	0.95
1:m:183:ILE:HD11	1:s:458:TYR:CE1	2.01	0.95
1:y:168:LEU:HD22	1:y:417:GLU:HB3	1.46	0.95
1:S:326:ARG:NH1	1:S:328:GLU:OE2	1.99	0.95
1:l:168:LEU:HD22	1:l:417:GLU:HB3	1.46	0.95
1:F:168:LEU:HD22	1:F:417:GLU:HB3	1.46	0.95
1:q:326:ARG:NH1	1:q:328:GLU:OE2	1.99	0.95
1:u:458:TYR:CE1	1:5:183:ILE:HD11	2.01	0.95
1:z:326:ARG:NH1	1:z:328:GLU:OE2	1.99	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:326:ARG:NH1	1:C:328:GLU:OE2	1.99	0.95
1:L:326:ARG:NH1	1:L:328:GLU:OE2	1.99	0.95
1:b:183:ILE:HD11	1:o:458:TYR:CE1	2.01	0.95
1:c:168:LEU:HD22	1:c:417:GLU:HB3	1.46	0.95
1:f:168:LEU:HD22	1:f:417:GLU:HB3	1.46	0.95
1:r:326:ARG:NH1	1:r:328:GLU:OE2	1.99	0.95
1:R:326:ARG:NH1	1:R:328:GLU:OE2	1.99	0.94
1:R:458:TYR:CE1	1:V:183:ILE:HD11	2.01	0.94
1:X:183:ILE:HD11	1:Y:458:TYR:CE1	2.01	0.94
1:X:458:TYR:CE1	1:f:183:ILE:HD11	2.01	0.94
1:Z:168:LEU:HD22	1:Z:417:GLU:HB3	1.46	0.94
1:g:326:ARG:NH1	1:g:328:GLU:OE2	1.99	0.94
1:p:183:ILE:HD11	1:q:458:TYR:CE1	2.01	0.94
1:t:168:LEU:HD22	1:t:417:GLU:HB3	1.46	0.94
1:t:298:ALA:O	1:v:269:ARG:NH1	2.00	0.94
1:B:168:LEU:HD22	1:B:417:GLU:HB3	1.46	0.94
1:D:458:TYR:CE1	1:E:183:ILE:HD11	2.01	0.94
1:G:183:ILE:HD11	1:W:458:TYR:CE1	2.01	0.94
1:O:326:ARG:NH1	1:O:328:GLU:OE2	1.99	0.94
1:B:286:LEU:CD1	1:B:398:ILE:HD11	1.98	0.94
1:K:183:ILE:HD11	1:L:458:TYR:CE1	2.01	0.94
1:a:326:ARG:NH1	1:a:328:GLU:OE2	1.99	0.94
1:c:458:TYR:CE1	1:s:183:ILE:HD11	2.01	0.94
1:o:183:ILE:HD11	1:7:458:TYR:CE1	2.01	0.94
1:p:326:ARG:NH1	1:p:328:GLU:OE2	1.99	0.94
1:1:286:LEU:CD1	1:1:398:ILE:HD11	1.98	0.94
1:3:326:ARG:NH1	1:3:328:GLU:OE2	1.99	0.94
1:V:326:ARG:NH1	1:V:328:GLU:OE2	1.99	0.94
1:b:168:LEU:HD22	1:b:417:GLU:HB3	1.46	0.94
1:g:458:TYR:CE1	1:k:183:ILE:HD11	2.01	0.94
1:k:458:TYR:CE1	1:w:183:ILE:HD11	2.01	0.94
1:O:183:ILE:HD11	1:P:458:TYR:CE1	2.01	0.94
1:S:183:ILE:HD11	1:d:458:TYR:CE1	2.01	0.94
1:S:286:LEU:CD1	1:S:398:ILE:HD11	1.98	0.94
1:U:183:ILE:HD11	1:e:458:TYR:CE1	2.01	0.94
1:Z:298:ALA:O	1:3:269:ARG:NH1	2.01	0.94
1:l:326:ARG:NH1	1:l:328:GLU:OE2	1.99	0.94
1:r:286:LEU:CD1	1:r:398:ILE:HD11	1.98	0.94
1:z:458:TYR:CE1	1:4:183:ILE:HD11	2.01	0.94
1:8:168:LEU:HD22	1:8:417:GLU:HB3	1.46	0.94
1:C:458:TYR:CE1	1:D:183:ILE:HD11	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:286:LEU:CD1	1:Y:398:ILE:HD11	1.98	0.94
1:j:458:TYR:CE1	1:l:183:ILE:HD11	2.01	0.94
1:n:458:TYR:CE1	1:r:183:ILE:HD11	2.01	0.94
1:o:286:LEU:CD1	1:o:398:ILE:HD11	1.98	0.94
1:1:168:LEU:HD22	1:1:417:GLU:HB3	1.46	0.94
1:M:326:ARG:NH1	1:M:328:GLU:OE2	1.99	0.94
1:R:298:ALA:O	1:U:269:ARG:NH1	2.01	0.94
1:T:286:LEU:CD1	1:T:398:ILE:HD11	1.98	0.94
1:X:286:LEU:CD1	1:X:398:ILE:HD11	1.98	0.94
1:a:269:ARG:NH1	1:8:298:ALA:O	2.01	0.94
1:q:298:ALA:O	1:s:269:ARG:NH1	2.01	0.94
1:7:286:LEU:CD1	1:7:398:ILE:HD11	1.98	0.94
1:H:298:ALA:O	1:Y:269:ARG:NH1	2.01	0.94
1:Q:286:LEU:CD1	1:Q:398:ILE:HD11	1.98	0.94
1:d:286:LEU:CD1	1:d:398:ILE:HD11	1.98	0.94
1:g:298:ALA:O	1:h:269:ARG:NH1	2.01	0.94
1:h:326:ARG:NH1	1:h:328:GLU:OE2	1.99	0.94
1:m:286:LEU:CD1	1:m:398:ILE:HD11	1.98	0.94
1:x:286:LEU:CD1	1:x:398:ILE:HD11	1.98	0.94
1:5:298:ALA:O	1:7:269:ARG:NH1	2.01	0.94
1:D:269:ARG:NH1	1:N:298:ALA:O	2.01	0.94
1:K:286:LEU:CD1	1:K:398:ILE:HD11	1.98	0.94
1:c:286:LEU:CD1	1:c:398:ILE:HD11	1.98	0.94
1:e:286:LEU:CD1	1:e:398:ILE:HD11	1.98	0.94
1:i:298:ALA:O	1:k:269:ARG:NH1	2.01	0.94
1:n:286:LEU:CD1	1:n:398:ILE:HD11	1.98	0.94
1:o:225:LEU:HD11	1:o:231:TRP:HB2	1.50	0.94
1:t:148:ASN:ND2	1:6:149:ASP:OD1	2.00	0.94
1:z:225:LEU:HD11	1:z:231:TRP:HB2	1.50	0.94
1:L:225:LEU:HD11	1:L:231:TRP:HB2	1.50	0.94
1:M:225:LEU:HD11	1:M:231:TRP:HB2	1.50	0.94
1:U:225:LEU:HD11	1:U:231:TRP:HB2	1.50	0.94
1:X:225:LEU:HD11	1:X:231:TRP:HB2	1.50	0.94
1:X:298:ALA:O	1:e:269:ARG:NH1	2.01	0.94
1:a:225:LEU:HD11	1:a:231:TRP:HB2	1.50	0.94
1:c:269:ARG:NH1	1:o:298:ALA:O	2.01	0.94
1:g:225:LEU:HD11	1:g:231:TRP:HB2	1.50	0.94
1:u:269:ARG:NH1	1:v:298:ALA:O	2.01	0.94
1:4:286:LEU:CD1	1:4:398:ILE:HD11	1.98	0.94
1:5:286:LEU:CD1	1:5:398:ILE:HD11	1.98	0.94
1:6:225:LEU:HD11	1:6:231:TRP:HB2	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:298:ALA:O	1:M:269:ARG:NH1	2.01	0.93
1:H:286:LEU:CD1	1:H:398:ILE:HD11	1.98	0.93
1:T:269:ARG:NH1	1:d:298:ALA:O	2.01	0.93
1:W:225:LEU:HD11	1:W:231:TRP:HB2	1.50	0.93
1:c:298:ALA:O	1:p:269:ARG:NH1	2.01	0.93
1:k:219:GLU:HA	1:w:39:CYS:HB2	1.50	0.93
1:q:269:ARG:NH1	1:r:298:ALA:O	2.01	0.93
1:s:225:LEU:HD11	1:s:231:TRP:HB2	1.50	0.93
1:3:168:LEU:HD22	1:3:417:GLU:HB3	1.46	0.93
1:3:225:LEU:HD11	1:3:231:TRP:HB2	1.50	0.93
1:C:225:LEU:HD11	1:C:231:TRP:HB2	1.50	0.93
1:D:219:GLU:HA	1:E:39:CYS:HB2	1.51	0.93
1:D:225:LEU:HD11	1:D:231:TRP:HB2	1.50	0.93
1:F:286:LEU:CD1	1:F:398:ILE:HD11	1.98	0.93
1:R:269:ARG:NH1	1:S:298:ALA:O	2.01	0.93
1:V:225:LEU:HD11	1:V:231:TRP:HB2	1.50	0.93
1:V:269:ARG:NH1	1:e:298:ALA:O	2.01	0.93
1:h:225:LEU:HD11	1:h:231:TRP:HB2	1.50	0.93
1:m:269:ARG:NH1	1:n:298:ALA:O	2.01	0.93
1:3:298:ALA:O	1:4:269:ARG:NH1	2.01	0.93
1:F:39:CYS:HB2	1:G:219:GLU:HA	1.50	0.93
1:I:39:CYS:HB2	1:J:219:GLU:HA	1.51	0.93
1:K:39:CYS:HB2	1:L:219:GLU:HA	1.50	0.93
1:K:269:ARG:NH1	1:a:298:ALA:O	2.01	0.93
1:O:298:ALA:O	1:n:269:ARG:NH1	2.01	0.93
1:S:39:CYS:HB2	1:d:219:GLU:HA	1.50	0.93
1:U:39:CYS:HB2	1:e:219:GLU:HA	1.50	0.93
1:W:269:ARG:NH1	1:Y:298:ALA:O	2.01	0.93
1:a:286:LEU:CD1	1:a:398:ILE:HD11	1.98	0.93
1:k:225:LEU:HD11	1:k:231:TRP:HB2	1.50	0.93
1:n:219:GLU:HA	1:r:39:CYS:HB2	1.50	0.93
1:p:225:LEU:HD11	1:p:231:TRP:HB2	1.50	0.93
1:t:183:ILE:HD11	1:6:458:TYR:CE1	2.02	0.93
1:y:286:LEU:CD1	1:y:398:ILE:HD11	1.98	0.93
1:z:219:GLU:HA	1:4:39:CYS:HB2	1.50	0.93
1:3:286:LEU:CD1	1:3:398:ILE:HD11	1.98	0.93
1:5:219:GLU:HA	1:8:39:CYS:HB2	1.50	0.93
1:6:269:ARG:NH1	1:7:298:ALA:O	2.01	0.93
1:7:225:LEU:HD11	1:7:231:TRP:HB2	1.50	0.93
1:C:286:LEU:CD1	1:C:398:ILE:HD11	1.98	0.93
1:M:298:ALA:O	1:b:269:ARG:NH1	2.01	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:269:ARG:NH1	1:P:298:ALA:O	2.01	0.93
1:R:286:LEU:CD1	1:R:398:ILE:HD11	1.98	0.93
1:U:286:LEU:CD1	1:U:398:ILE:HD11	1.98	0.93
1:a:168:LEU:HD22	1:a:417:GLU:HB3	1.46	0.93
1:f:269:ARG:NH1	1:h:298:ALA:O	2.01	0.93
1:j:39:CYS:HB2	1:x:219:GLU:HA	1.51	0.93
1:n:225:LEU:HD11	1:n:231:TRP:HB2	1.50	0.93
1:q:286:LEU:CD1	1:q:398:ILE:HD11	1.98	0.93
1:u:39:CYS:HB2	1:2:219:GLU:HA	1.51	0.93
1:z:249:SER:O	1:z:373:GLU:HG3	1.69	0.93
1:2:39:CYS:HB2	1:3:219:GLU:HA	1.50	0.93
1:A:249:SER:O	1:A:373:GLU:HG3	1.69	0.93
1:D:298:ALA:O	1:P:269:ARG:NH1	2.01	0.93
1:H:219:GLU:HA	1:Z:39:CYS:HB2	1.50	0.93
1:K:219:GLU:HA	1:7:39:CYS:HB2	1.51	0.93
1:L:249:SER:O	1:L:373:GLU:HG3	1.69	0.93
1:N:286:LEU:CD1	1:N:398:ILE:HD11	1.98	0.93
1:P:39:CYS:HB2	1:Q:219:GLU:HA	1.51	0.93
1:T:219:GLU:HA	1:i:39:CYS:HB2	1.50	0.93
1:V:219:GLU:HA	1:W:39:CYS:HB2	1.50	0.93
1:Y:225:LEU:HD11	1:Y:231:TRP:HB2	1.50	0.93
1:Z:225:LEU:HD11	1:Z:231:TRP:HB2	1.50	0.93
1:c:219:GLU:HA	1:s:39:CYS:HB2	1.50	0.93
1:d:225:LEU:HD11	1:d:231:TRP:HB2	1.50	0.93
1:g:286:LEU:CD1	1:g:398:ILE:HD11	1.98	0.93
1:i:269:ARG:NH1	1:j:298:ALA:O	2.01	0.93
1:j:269:ARG:NH1	1:k:298:ALA:O	2.02	0.93
1:v:39:CYS:HB2	1:w:219:GLU:HA	1.50	0.93
1:v:249:SER:O	1:v:373:GLU:HG3	1.69	0.93
1:w:298:ALA:O	1:y:269:ARG:NH1	2.01	0.93
1:2:286:LEU:CD1	1:2:398:ILE:HD11	1.98	0.93
1:8:225:LEU:HD11	1:8:231:TRP:HB2	1.50	0.93
1:F:219:GLU:HA	1:R:39:CYS:HB2	1.50	0.93
1:G:39:CYS:HB2	1:W:219:GLU:HA	1.51	0.93
1:G:286:LEU:CD1	1:G:398:ILE:HD11	1.98	0.93
1:J:39:CYS:HB2	1:a:219:GLU:HA	1.50	0.93
1:J:269:ARG:NH1	1:L:298:ALA:O	2.01	0.93
1:J:286:LEU:CD1	1:J:398:ILE:HD11	1.98	0.93
1:L:39:CYS:HB2	1:b:219:GLU:HA	1.50	0.93
1:L:286:LEU:CD1	1:L:398:ILE:HD11	1.98	0.93
1:M:249:SER:O	1:M:373:GLU:HG3	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:39:CYS:HB2	1:m:219:GLU:HA	1.50	0.93
1:S:249:SER:O	1:S:373:GLU:HG3	1.69	0.93
1:Y:39:CYS:HB2	1:4:219:GLU:HA	1.50	0.93
1:Z:269:ARG:NH1	1:4:298:ALA:O	2.02	0.93
1:Z:286:LEU:CD1	1:Z:398:ILE:HD11	1.98	0.93
1:d:269:ARG:NH1	1:l:298:ALA:O	2.01	0.93
1:f:219:GLU:HA	1:z:39:CYS:HB2	1.50	0.93
1:h:249:SER:O	1:h:373:GLU:HG3	1.69	0.93
1:h:286:LEU:CD1	1:h:398:ILE:HD11	1.98	0.93
1:p:219:GLU:HA	1:6:39:CYS:HB2	1.51	0.93
1:q:39:CYS:HB2	1:y:219:GLU:HA	1.50	0.93
1:r:249:SER:O	1:r:373:GLU:HG3	1.69	0.93
1:s:286:LEU:CD1	1:s:398:ILE:HD11	1.98	0.93
1:z:298:ALA:O	1:2:269:ARG:NH1	2.01	0.93
1:6:286:LEU:CD1	1:6:398:ILE:HD11	1.98	0.93
1:8:286:LEU:CD1	1:8:398:ILE:HD11	1.98	0.93
1:E:298:ALA:O	1:F:269:ARG:NH1	2.01	0.93
1:H:294:THR:O	1:H:306:MET:HE1	1.69	0.93
1:K:298:ALA:O	1:8:269:ARG:NH1	2.02	0.93
1:M:286:LEU:CD1	1:M:398:ILE:HD11	1.98	0.93
1:S:225:LEU:HD11	1:S:231:TRP:HB2	1.50	0.93
1:S:269:ARG:NH1	1:U:298:ALA:O	2.01	0.93
1:g:249:SER:O	1:g:373:GLU:HG3	1.69	0.93
1:i:286:LEU:CD1	1:i:398:ILE:HD11	1.98	0.93
1:m:39:CYS:HB2	1:s:219:GLU:HA	1.50	0.93
1:t:286:LEU:CD1	1:t:398:ILE:HD11	1.98	0.93
1:C:249:SER:O	1:C:373:GLU:HG3	1.69	0.93
1:G:269:ARG:NH1	1:I:298:ALA:O	2.01	0.93
1:T:225:LEU:HD11	1:T:231:TRP:HB2	1.50	0.93
1:W:286:LEU:CD1	1:W:398:ILE:HD11	1.98	0.93
1:k:286:LEU:CD1	1:k:398:ILE:HD11	1.98	0.93
1:l:286:LEU:CD1	1:l:398:ILE:HD11	1.98	0.93
1:r:269:ARG:NH1	1:s:298:ALA:O	2.01	0.93
1:z:286:LEU:CD1	1:z:398:ILE:HD11	1.98	0.93
1:5:294:THR:O	1:5:306:MET:HE1	1.69	0.93
1:6:249:SER:O	1:6:373:GLU:HG3	1.69	0.93
1:D:286:LEU:CD1	1:D:398:ILE:HD11	1.98	0.93
1:J:225:LEU:HD11	1:J:231:TRP:HB2	1.50	0.93
1:K:225:LEU:HD11	1:K:231:TRP:HB2	1.50	0.93
1:T:39:CYS:HB2	1:U:219:GLU:HA	1.50	0.93
1:W:249:SER:O	1:W:373:GLU:HG3	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:294:THR:O	1:Z:306:MET:HE1	1.69	0.93
1:m:225:LEU:HD11	1:m:231:TRP:HB2	1.50	0.93
1:r:225:LEU:HD11	1:r:231:TRP:HB2	1.50	0.93
1:u:286:LEU:CD1	1:u:398:ILE:HD11	1.98	0.93
1:v:286:LEU:CD1	1:v:398:ILE:HD11	1.98	0.93
1:w:286:LEU:CD1	1:w:398:ILE:HD11	1.98	0.93
1:2:225:LEU:HD11	1:2:231:TRP:HB2	1.50	0.93
1:5:269:ARG:NH1	1:6:298:ALA:O	2.01	0.93
1:8:294:THR:O	1:8:306:MET:HE1	1.69	0.93
1:B:249:SER:O	1:B:373:GLU:HG3	1.69	0.93
1:H:269:ARG:NH1	1:W:298:ALA:O	2.01	0.93
1:I:249:SER:O	1:I:373:GLU:HG3	1.69	0.93
1:I:286:LEU:CD1	1:I:398:ILE:HD11	1.98	0.93
1:O:286:LEU:CD1	1:O:398:ILE:HD11	1.98	0.93
1:U:294:THR:O	1:U:306:MET:HE1	1.69	0.93
1:f:294:THR:O	1:f:306:MET:HE1	1.69	0.93
1:j:219:GLU:HA	1:l:39:CYS:HB2	1.50	0.93
1:u:249:SER:O	1:u:373:GLU:HG3	1.69	0.93
1:1:249:SER:O	1:1:373:GLU:HG3	1.69	0.93
1:A:286:LEU:CD1	1:A:398:ILE:HD11	1.98	0.92
1:E:286:LEU:CD1	1:E:398:ILE:HD11	1.98	0.92
1:F:298:ALA:O	1:Q:269:ARG:NH1	2.01	0.92
1:O:39:CYS:HB2	1:P:219:GLU:HA	1.50	0.92
1:p:286:LEU:CD1	1:p:398:ILE:HD11	1.98	0.92
1:s:294:THR:O	1:s:306:MET:HE1	1.69	0.92
1:z:294:THR:O	1:z:306:MET:HE1	1.69	0.92
1:4:225:LEU:HD11	1:4:231:TRP:HB2	1.50	0.92
1:6:294:THR:O	1:6:306:MET:HE1	1.69	0.92
1:I:294:THR:O	1:I:306:MET:HE1	1.69	0.92
1:J:249:SER:O	1:J:373:GLU:HG3	1.69	0.92
1:M:294:THR:O	1:M:306:MET:HE1	1.69	0.92
1:O:219:GLU:HA	1:d:39:CYS:HB2	1.50	0.92
1:P:249:SER:O	1:P:373:GLU:HG3	1.69	0.92
1:U:249:SER:O	1:U:373:GLU:HG3	1.69	0.92
1:W:294:THR:O	1:W:306:MET:HE1	1.69	0.92
1:b:294:THR:O	1:b:306:MET:HE1	1.69	0.92
1:d:294:THR:O	1:d:306:MET:HE1	1.69	0.92
1:h:294:THR:O	1:h:306:MET:HE1	1.69	0.92
1:i:225:LEU:HD11	1:i:231:TRP:HB2	1.50	0.92
1:l:225:LEU:HD11	1:l:231:TRP:HB2	1.50	0.92
1:n:294:THR:O	1:n:306:MET:HE1	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:269:ARG:NH1	1:y:298:ALA:O	2.01	0.92
1:1:269:ARG:NH1	1:2:298:ALA:O	2.01	0.92
1:D:249:SER:O	1:D:373:GLU:HG3	1.69	0.92
1:K:294:THR:O	1:K:306:MET:HE1	1.69	0.92
1:L:294:THR:O	1:L:306:MET:HE1	1.69	0.92
1:N:225:LEU:HD11	1:N:231:TRP:HB2	1.50	0.92
1:O:225:LEU:HD11	1:O:231:TRP:HB2	1.50	0.92
1:V:286:LEU:CD1	1:V:398:ILE:HD11	1.98	0.92
1:k:249:SER:O	1:k:373:GLU:HG3	1.69	0.92
1:n:249:SER:O	1:n:373:GLU:HG3	1.69	0.92
1:s:249:SER:O	1:s:373:GLU:HG3	1.69	0.92
1:u:294:THR:O	1:u:306:MET:HE1	1.69	0.92
1:w:269:ARG:NH1	1:x:298:ALA:O	2.01	0.92
1:y:225:LEU:HD11	1:y:231:TRP:HB2	1.50	0.92
1:y:294:THR:O	1:y:306:MET:HE1	1.69	0.92
1:B:269:ARG:NH1	1:J:298:ALA:O	2.01	0.92
1:E:269:ARG:NH1	1:Q:298:ALA:O	2.01	0.92
1:F:249:SER:O	1:F:373:GLU:HG3	1.69	0.92
1:J:294:THR:O	1:J:306:MET:HE1	1.69	0.92
1:R:249:SER:O	1:R:373:GLU:HG3	1.69	0.92
1:b:249:SER:O	1:b:373:GLU:HG3	1.69	0.92
1:c:249:SER:O	1:c:373:GLU:HG3	1.69	0.92
1:e:249:SER:O	1:e:373:GLU:HG3	1.69	0.92
1:f:298:ALA:O	1:g:269:ARG:NH1	2.01	0.92
1:j:249:SER:O	1:j:373:GLU:HG3	1.69	0.92
1:l:219:GLU:HA	1:n:39:CYS:HB2	1.50	0.92
1:o:269:ARG:NH1	1:p:298:ALA:O	2.01	0.92
1:2:249:SER:O	1:2:373:GLU:HG3	1.69	0.92
1:4:294:THR:O	1:4:306:MET:HE1	1.69	0.92
1:C:269:ARG:NH1	1:b:298:ALA:O	2.01	0.92
1:D:294:THR:O	1:D:306:MET:HE1	1.69	0.92
1:F:225:LEU:HD11	1:F:231:TRP:HB2	1.50	0.92
1:Q:249:SER:O	1:Q:373:GLU:HG3	1.69	0.92
1:V:298:ALA:O	1:X:269:ARG:NH1	2.01	0.92
1:d:249:SER:O	1:d:373:GLU:HG3	1.69	0.92
1:t:294:THR:O	1:t:306:MET:HE1	1.69	0.92
1:v:225:LEU:HD11	1:v:231:TRP:HB2	1.50	0.92
1:x:249:SER:O	1:x:373:GLU:HG3	1.69	0.92
1:A:39:CYS:HB2	1:E:219:GLU:HA	1.52	0.92
1:A:225:LEU:HD11	1:A:231:TRP:HB2	1.50	0.92
1:B:298:ALA:O	1:L:269:ARG:NH1	2.01	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:294:THR:O	1:F:306:MET:HE1	1.69	0.92
1:S:294:THR:O	1:S:306:MET:HE1	1.69	0.92
1:Y:294:THR:O	1:Y:306:MET:HE1	1.69	0.92
1:k:294:THR:O	1:k:306:MET:HE1	1.69	0.92
1:q:249:SER:O	1:q:373:GLU:HG3	1.69	0.92
1:r:294:THR:O	1:r:306:MET:HE1	1.69	0.92
1:y:249:SER:O	1:y:373:GLU:HG3	1.69	0.92
1:2:294:THR:O	1:2:306:MET:HE1	1.69	0.92
1:G:294:THR:O	1:G:306:MET:HE1	1.69	0.92
1:P:286:LEU:CD1	1:P:398:ILE:HD11	1.98	0.92
1:f:249:SER:O	1:f:373:GLU:HG3	1.69	0.92
1:g:39:CYS:HB2	1:1:219:GLU:HA	1.50	0.92
1:j:294:THR:O	1:j:306:MET:HE1	1.69	0.92
1:q:225:LEU:HD11	1:q:231:TRP:HB2	1.50	0.92
1:x:225:LEU:HD11	1:x:231:TRP:HB2	1.50	0.92
1:z:269:ARG:NH1	1:1:298:ALA:O	2.01	0.92
1:7:249:SER:O	1:7:373:GLU:HG3	1.69	0.92
1:B:219:GLU:HA	1:C:39:CYS:HB2	1.50	0.92
1:E:294:THR:O	1:E:306:MET:HE1	1.69	0.92
1:G:249:SER:O	1:G:373:GLU:HG3	1.69	0.92
1:O:269:ARG:NH1	1:m:298:ALA:O	2.02	0.92
1:P:294:THR:O	1:P:306:MET:HE1	1.69	0.92
1:T:298:ALA:O	1:l:269:ARG:NH1	2.01	0.92
1:Y:249:SER:O	1:Y:373:GLU:HG3	1.69	0.92
1:Z:249:SER:O	1:Z:373:GLU:HG3	1.69	0.92
1:7:294:THR:O	1:7:306:MET:HE1	1.69	0.92
1:A:219:GLU:HA	1:B:39:CYS:HB2	1.48	0.92
1:Q:294:THR:O	1:Q:306:MET:HE1	1.69	0.92
1:b:286:LEU:CD1	1:b:398:ILE:HD11	1.98	0.92
1:j:286:LEU:CD1	1:j:398:ILE:HD11	1.98	0.92
1:w:294:THR:O	1:w:306:MET:HE1	1.69	0.92
1:8:249:SER:O	1:8:373:GLU:HG3	1.69	0.92
1:Q:182:HIS:HD2	1:Q:346:GLN:HA	1.35	0.92
1:Q:225:LEU:HD11	1:Q:231:TRP:HB2	1.50	0.92
1:f:286:LEU:CD1	1:f:398:ILE:HD11	1.98	0.92
1:t:219:GLU:HA	1:y:39:CYS:HB2	1.51	0.92
1:t:249:SER:O	1:t:373:GLU:HG3	1.69	0.92
1:t:269:ARG:NH1	1:u:298:ALA:O	2.02	0.92
1:x:182:HIS:HD2	1:x:346:GLN:HA	1.35	0.92
1:x:294:THR:O	1:x:306:MET:HE1	1.69	0.92
1:H:225:LEU:HD11	1:H:231:TRP:HB2	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:249:SER:O	1:N:373:GLU:HG3	1.69	0.91
1:R:225:LEU:HD11	1:R:231:TRP:HB2	1.50	0.91
1:T:294:THR:O	1:T:306:MET:HE1	1.69	0.91
1:l:294:THR:O	1:l:306:MET:HE1	1.69	0.91
1:w:182:HIS:HD2	1:w:346:GLN:HA	1.35	0.91
1:y:182:HIS:HD2	1:y:346:GLN:HA	1.35	0.91
1:6:182:HIS:HD2	1:6:346:GLN:HA	1.35	0.91
1:E:182:HIS:HD2	1:E:346:GLN:HA	1.35	0.91
1:W:182:HIS:HD2	1:W:346:GLN:HA	1.36	0.91
1:d:182:HIS:HD2	1:d:346:GLN:HA	1.36	0.91
1:v:294:THR:O	1:v:306:MET:HE1	1.69	0.91
1:A:294:THR:O	1:A:306:MET:HE1	1.69	0.91
1:F:182:HIS:HD2	1:F:346:GLN:HA	1.35	0.91
1:G:225:LEU:HD11	1:G:231:TRP:HB2	1.50	0.91
1:O:294:THR:O	1:O:306:MET:HE1	1.69	0.91
1:V:294:THR:O	1:V:306:MET:HE1	1.69	0.91
1:Z:182:HIS:HD2	1:Z:346:GLN:HA	1.36	0.91
1:e:294:THR:O	1:e:306:MET:HE1	1.69	0.91
1:i:249:SER:O	1:i:373:GLU:HG3	1.69	0.91
1:n:182:HIS:HD2	1:n:346:GLN:HA	1.36	0.91
1:M:219:GLU:HA	1:c:39:CYS:HB2	1.50	0.91
1:c:294:THR:O	1:c:306:MET:HE1	1.69	0.91
1:h:39:CYS:HB2	1:i:219:GLU:HA	1.50	0.91
1:m:249:SER:O	1:m:373:GLU:HG3	1.69	0.91
1:w:225:LEU:HD11	1:w:231:TRP:HB2	1.50	0.91
1:B:294:THR:O	1:B:306:MET:HE1	1.69	0.91
1:C:182:HIS:HD2	1:C:346:GLN:HA	1.35	0.91
1:M:39:CYS:HB2	1:N:219:GLU:HA	1.51	0.91
1:j:225:LEU:HD11	1:j:231:TRP:HB2	1.50	0.91
1:m:294:THR:O	1:m:306:MET:HE1	1.69	0.91
1:p:294:THR:O	1:p:306:MET:HE1	1.69	0.91
1:t:225:LEU:HD11	1:t:231:TRP:HB2	1.50	0.91
1:1:294:THR:O	1:1:306:MET:HE1	1.69	0.91
1:5:225:LEU:HD11	1:5:231:TRP:HB2	1.50	0.91
1:5:249:SER:O	1:5:373:GLU:HG3	1.69	0.91
1:T:249:SER:O	1:T:373:GLU:HG3	1.69	0.91
1:b:225:LEU:HD11	1:b:231:TRP:HB2	1.50	0.91
1:e:225:LEU:HD11	1:e:231:TRP:HB2	1.50	0.91
1:f:225:LEU:HD11	1:f:231:TRP:HB2	1.50	0.91
1:w:249:SER:O	1:w:373:GLU:HG3	1.69	0.91
1:8:182:HIS:HD2	1:8:346:GLN:HA	1.36	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:249:SER:O	1:H:373:GLU:HG3	1.69	0.91
1:J:182:HIS:HD2	1:J:346:GLN:HA	1.35	0.91
1:c:225:LEU:HD11	1:c:231:TRP:HB2	1.50	0.91
1:e:39:CYS:HB2	1:h:219:GLU:HA	1.50	0.91
1:g:182:HIS:HD2	1:g:346:GLN:HA	1.35	0.91
1:2:182:HIS:HD2	1:2:346:GLN:HA	1.36	0.91
1:B:225:LEU:HD11	1:B:231:TRP:HB2	1.50	0.91
1:E:225:LEU:HD11	1:E:231:TRP:HB2	1.50	0.91
1:E:249:SER:O	1:E:373:GLU:HG3	1.69	0.91
1:P:182:HIS:HD2	1:P:346:GLN:HA	1.36	0.91
1:P:225:LEU:HD11	1:P:231:TRP:HB2	1.50	0.91
1:i:294:THR:O	1:i:306:MET:HE1	1.69	0.91
1:u:225:LEU:HD11	1:u:231:TRP:HB2	1.50	0.91
1:3:39:CYS:HB2	1:8:219:GLU:HA	1.50	0.91
1:3:249:SER:O	1:3:373:GLU:HG3	1.69	0.91
1:B:182:HIS:HD2	1:B:346:GLN:HA	1.36	0.91
1:e:182:HIS:HD2	1:e:346:GLN:HA	1.36	0.91
1:1:225:LEU:HD11	1:1:231:TRP:HB2	1.50	0.91
1:H:39:CYS:HB2	1:I:219:GLU:HA	1.51	0.91
1:K:249:SER:O	1:K:373:GLU:HG3	1.69	0.91
1:N:294:THR:O	1:N:306:MET:HE1	1.69	0.91
1:Q:39:CYS:HB2	1:S:219:GLU:HA	1.51	0.91
1:Z:219:GLU:HA	1:a:39:CYS:HB2	1.50	0.91
1:j:182:HIS:HD2	1:j:346:GLN:HA	1.36	0.91
1:o:182:HIS:HD2	1:o:346:GLN:HA	1.35	0.91
1:o:249:SER:O	1:o:373:GLU:HG3	1.69	0.91
1:r:219:GLU:HA	1:x:39:CYS:HB2	1.51	0.91
1:t:39:CYS:HB2	1:6:219:GLU:HA	1.53	0.91
1:A:269:ARG:NH1	1:G:298:ALA:O	2.04	0.90
1:H:182:HIS:HD2	1:H:346:GLN:HA	1.36	0.90
1:I:225:LEU:HD11	1:I:231:TRP:HB2	1.50	0.90
1:X:249:SER:O	1:X:373:GLU:HG3	1.69	0.90
1:a:249:SER:O	1:a:373:GLU:HG3	1.69	0.90
1:1:182:HIS:HD2	1:1:346:GLN:HA	1.36	0.90
1:4:249:SER:O	1:4:373:GLU:HG3	1.69	0.90
1:5:182:HIS:HD2	1:5:346:GLN:HA	1.35	0.90
1:c:182:HIS:HD2	1:c:346:GLN:HA	1.36	0.90
1:f:182:HIS:HD2	1:f:346:GLN:HA	1.36	0.90
1:l:249:SER:O	1:l:373:GLU:HG3	1.69	0.90
1:v:219:GLU:HA	1:1:39:CYS:HB2	1.50	0.90
1:O:249:SER:O	1:O:373:GLU:HG3	1.69	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:39:CYS:HB2	1:Y:219:GLU:HA	1.50	0.90
1:b:182:HIS:HD2	1:b:346:GLN:HA	1.36	0.90
1:u:219:GLU:HA	1:5:39:CYS:HB2	1.51	0.90
1:X:182:HIS:HD2	1:X:346:GLN:HA	1.35	0.90
1:Y:182:HIS:HD2	1:Y:346:GLN:HA	1.35	0.90
1:o:39:CYS:HB2	1:7:219:GLU:HA	1.51	0.90
1:7:182:HIS:HD2	1:7:346:GLN:HA	1.35	0.90
1:S:182:HIS:HD2	1:S:346:GLN:HA	1.35	0.90
1:V:249:SER:O	1:V:373:GLU:HG3	1.69	0.90
1:X:294:THR:O	1:X:306:MET:HE1	1.69	0.90
1:b:39:CYS:HB2	1:o:219:GLU:HA	1.50	0.90
1:g:219:GLU:HA	1:k:39:CYS:HB2	1.51	0.90
1:3:294:THR:O	1:3:306:MET:HE1	1.69	0.90
1:p:249:SER:O	1:p:373:GLU:HG3	1.69	0.90
1:C:294:THR:O	1:C:306:MET:HE1	1.69	0.90
1:a:294:THR:O	1:a:306:MET:HE1	1.69	0.90
1:r:182:HIS:HD2	1:r:346:GLN:HA	1.35	0.90
1:C:219:GLU:HA	1:D:39:CYS:HB2	1.50	0.90
1:N:182:HIS:HD2	1:N:346:GLN:HA	1.35	0.90
1:X:219:GLU:HA	1:f:39:CYS:HB2	1.50	0.90
1:o:294:THR:O	1:o:306:MET:HE1	1.69	0.90
1:q:182:HIS:HD2	1:q:346:GLN:HA	1.36	0.90
1:q:294:THR:O	1:q:306:MET:HE1	1.69	0.90
1:s:182:HIS:HD2	1:s:346:GLN:HA	1.35	0.90
1:R:182:HIS:HD2	1:R:346:GLN:HA	1.36	0.90
1:U:182:HIS:HD2	1:U:346:GLN:HA	1.35	0.90
1:g:294:THR:O	1:g:306:MET:HE1	1.69	0.90
1:R:294:THR:O	1:R:306:MET:HE1	1.69	0.90
1:p:39:CYS:HB2	1:q:219:GLU:HA	1.50	0.90
1:i:182:HIS:HD2	1:i:346:GLN:HA	1.35	0.89
1:u:182:HIS:HD2	1:u:346:GLN:HA	1.35	0.89
1:v:182:HIS:HD2	1:v:346:GLN:HA	1.35	0.89
1:I:182:HIS:HD2	1:I:346:GLN:HA	1.35	0.89
1:R:219:GLU:HA	1:V:39:CYS:HB2	1.50	0.89
1:a:182:HIS:HD2	1:a:346:GLN:HA	1.35	0.89
1:A:182:HIS:HD2	1:A:346:GLN:HA	1.36	0.89
1:D:182:HIS:HD2	1:D:346:GLN:HA	1.36	0.89
1:q:293:MET:HE3	1:q:320:PRO:O	1.73	0.89
1:R:293:MET:HE3	1:R:320:PRO:O	1.73	0.89
1:l:182:HIS:HD2	1:l:346:GLN:HA	1.35	0.89
1:p:293:MET:HE3	1:p:320:PRO:O	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:293:MET:HE3	1:3:320:PRO:O	1.73	0.89
1:K:182:HIS:HD2	1:K:346:GLN:HA	1.35	0.89
1:O:293:MET:HE3	1:O:320:PRO:O	1.73	0.89
1:T:182:HIS:HD2	1:T:346:GLN:HA	1.35	0.89
1:V:293:MET:HE3	1:V:320:PRO:O	1.73	0.89
1:a:293:MET:HE3	1:a:320:PRO:O	1.73	0.89
1:k:182:HIS:HD2	1:k:346:GLN:HA	1.35	0.89
1:l:293:MET:HE3	1:l:320:PRO:O	1.73	0.89
1:t:458:TYR:CE1	1:y:183:ILE:CD1	2.54	0.89
1:3:182:HIS:HD2	1:3:346:GLN:HA	1.36	0.89
1:4:182:HIS:HD2	1:4:346:GLN:HA	1.35	0.89
1:m:182:HIS:HD2	1:m:346:GLN:HA	1.35	0.89
1:G:182:HIS:HD2	1:G:346:GLN:HA	1.35	0.88
1:I:293:MET:HE3	1:I:320:PRO:O	1.73	0.88
1:L:293:MET:HE3	1:L:320:PRO:O	1.73	0.88
1:t:182:HIS:HD2	1:t:346:GLN:HA	1.36	0.88
1:u:293:MET:HE3	1:u:320:PRO:O	1.73	0.88
1:v:293:MET:HE3	1:v:320:PRO:O	1.73	0.88
1:A:293:MET:HE3	1:A:320:PRO:O	1.73	0.88
1:A:458:TYR:CE1	1:B:183:ILE:CD1	2.55	0.88
1:O:182:HIS:HD2	1:O:346:GLN:HA	1.36	0.88
1:S:293:MET:HE3	1:S:320:PRO:O	1.73	0.88
1:h:182:HIS:HD2	1:h:346:GLN:HA	1.35	0.88
1:Z:293:MET:HE3	1:Z:320:PRO:O	1.73	0.88
1:o:293:MET:HE3	1:o:320:PRO:O	1.73	0.88
1:z:293:MET:HE3	1:z:320:PRO:O	1.73	0.88
1:E:293:MET:HE3	1:E:320:PRO:O	1.73	0.88
1:J:293:MET:HE3	1:J:320:PRO:O	1.73	0.88
1:X:293:MET:HE3	1:X:320:PRO:O	1.73	0.88
1:r:293:MET:HE3	1:r:320:PRO:O	1.73	0.88
1:w:293:MET:HE3	1:w:320:PRO:O	1.73	0.88
1:P:293:MET:HE3	1:P:320:PRO:O	1.73	0.88
1:b:293:MET:HE3	1:b:320:PRO:O	1.73	0.88
1:i:293:MET:HE3	1:i:320:PRO:O	1.73	0.88
1:j:293:MET:HE3	1:j:320:PRO:O	1.73	0.88
1:x:293:MET:HE3	1:x:320:PRO:O	1.73	0.88
1:8:293:MET:HE3	1:8:320:PRO:O	1.73	0.88
1:F:293:MET:HE3	1:F:320:PRO:O	1.73	0.88
1:2:293:MET:HE3	1:2:320:PRO:O	1.73	0.88
1:K:293:MET:HE3	1:K:320:PRO:O	1.73	0.88
1:M:182:HIS:HD2	1:M:346:GLN:HA	1.35	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:293:MET:HE3	1:Q:320:PRO:O	1.73	0.88
1:f:293:MET:HE3	1:f:320:PRO:O	1.73	0.88
1:v:183:ILE:CD1	1:w:458:TYR:CE1	2.57	0.88
1:4:293:MET:HE3	1:4:320:PRO:O	1.73	0.88
1:N:293:MET:HE3	1:N:320:PRO:O	1.73	0.88
1:k:293:MET:HE3	1:k:320:PRO:O	1.73	0.88
1:y:293:MET:HE3	1:y:320:PRO:O	1.73	0.88
1:1:293:MET:HE3	1:1:320:PRO:O	1.73	0.88
1:B:293:MET:HE3	1:B:320:PRO:O	1.73	0.88
1:D:293:MET:HE3	1:D:320:PRO:O	1.73	0.88
1:F:182:HIS:CD2	1:F:346:GLN:HA	2.09	0.88
1:I:183:ILE:CD1	1:J:458:TYR:CE1	2.57	0.88
1:V:458:TYR:CE1	1:W:183:ILE:CD1	2.57	0.88
1:m:293:MET:HE3	1:m:320:PRO:O	1.73	0.88
1:p:458:TYR:CE1	1:6:183:ILE:CD1	2.57	0.88
1:u:183:ILE:CD1	1:2:458:TYR:CE1	2.57	0.88
1:C:293:MET:HE3	1:C:320:PRO:O	1.73	0.88
1:D:458:TYR:CE1	1:E:183:ILE:CD1	2.58	0.88
1:g:293:MET:HE3	1:g:320:PRO:O	1.73	0.88
1:k:182:HIS:CD2	1:k:346:GLN:HA	2.09	0.88
1:k:458:TYR:CE1	1:w:183:ILE:CD1	2.58	0.88
1:l:458:TYR:CE1	1:n:183:ILE:CD1	2.57	0.88
1:y:182:HIS:CD2	1:y:346:GLN:HA	2.09	0.88
1:A:183:ILE:CD1	1:E:458:TYR:CE1	2.58	0.87
1:D:182:HIS:CD2	1:D:346:GLN:HA	2.09	0.87
1:T:293:MET:HE3	1:T:320:PRO:O	1.73	0.87
1:W:293:MET:HE3	1:W:320:PRO:O	1.73	0.87
1:X:183:ILE:CD1	1:Y:458:TYR:CE1	2.58	0.87
1:d:293:MET:HE3	1:d:320:PRO:O	1.73	0.87
1:n:293:MET:HE3	1:n:320:PRO:O	1.73	0.87
1:A:219:GLU:HA	1:B:39:CYS:CB	2.03	0.87
1:M:183:ILE:CD1	1:N:458:TYR:CE1	2.58	0.87
1:T:182:HIS:CD2	1:T:346:GLN:HA	2.09	0.87
1:T:183:ILE:CD1	1:U:458:TYR:CE1	2.57	0.87
1:U:182:HIS:CD2	1:U:346:GLN:HA	2.09	0.87
1:W:182:HIS:CD2	1:W:346:GLN:HA	2.09	0.87
1:Y:183:ILE:CD1	1:4:458:TYR:CE1	2.57	0.87
1:c:114:ILE:O	1:c:246:ASN:ND2	2.08	0.87
1:e:114:ILE:O	1:e:246:ASN:ND2	2.08	0.87
1:h:183:ILE:CD1	1:i:458:TYR:CE1	2.57	0.87
1:m:182:HIS:CD2	1:m:346:GLN:HA	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:183:ILE:CD1	1:s:458:TYR:CE1	2.57	0.87
1:o:183:ILE:CD1	1:7:458:TYR:CE1	2.58	0.87
1:s:182:HIS:CD2	1:s:346:GLN:HA	2.09	0.87
1:6:182:HIS:CD2	1:6:346:GLN:HA	2.09	0.87
1:6:293:MET:HE3	1:6:320:PRO:O	1.73	0.87
1:A:182:HIS:CD2	1:A:346:GLN:HA	2.09	0.87
1:C:241:THR:HG23	1:C:436:VAL:HG12	1.57	0.87
1:F:458:TYR:CE1	1:R:183:ILE:CD1	2.57	0.87
1:H:293:MET:HE3	1:H:320:PRO:O	1.73	0.87
1:O:183:ILE:CD1	1:P:458:TYR:CE1	2.57	0.87
1:O:458:TYR:CE1	1:d:183:ILE:CD1	2.57	0.87
1:P:183:ILE:CD1	1:Q:458:TYR:CE1	2.57	0.87
1:Q:183:ILE:CD1	1:S:458:TYR:CE1	2.57	0.87
1:U:183:ILE:CD1	1:e:458:TYR:CE1	2.57	0.87
1:X:241:THR:HG23	1:X:436:VAL:HG12	1.57	0.87
1:Z:458:TYR:CE1	1:a:183:ILE:CD1	2.57	0.87
1:c:458:TYR:CE1	1:s:183:ILE:CD1	2.57	0.87
1:t:219:GLU:HA	1:y:39:CYS:CB	2.05	0.87
1:v:182:HIS:CD2	1:v:346:GLN:HA	2.09	0.87
1:3:183:ILE:CD1	1:8:458:TYR:CE1	2.57	0.87
1:K:458:TYR:CE1	1:7:183:ILE:CD1	2.57	0.87
1:M:182:HIS:CD2	1:M:346:GLN:HA	2.09	0.87
1:O:114:ILE:O	1:O:246:ASN:ND2	2.08	0.87
1:P:241:THR:HG23	1:P:436:VAL:HG12	1.57	0.87
1:Q:182:HIS:CD2	1:Q:346:GLN:HA	2.09	0.87
1:Z:241:THR:HG23	1:Z:436:VAL:HG12	1.57	0.87
1:g:241:THR:HG23	1:g:436:VAL:HG12	1.57	0.87
1:j:183:ILE:CD1	1:x:458:TYR:CE1	2.57	0.87
1:j:241:THR:HG23	1:j:436:VAL:HG12	1.57	0.87
1:j:458:TYR:CE1	1:l:183:ILE:CD1	2.57	0.87
1:l:114:ILE:O	1:l:246:ASN:ND2	2.08	0.87
1:o:241:THR:HG23	1:o:436:VAL:HG12	1.57	0.87
1:q:183:ILE:CD1	1:y:458:TYR:CE1	2.58	0.87
1:r:458:TYR:CE1	1:x:183:ILE:CD1	2.57	0.87
1:5:293:MET:HE3	1:5:320:PRO:O	1.73	0.87
1:5:458:TYR:CE1	1:8:183:ILE:CD1	2.57	0.87
1:C:114:ILE:O	1:C:246:ASN:ND2	2.08	0.87
1:R:182:HIS:CD2	1:R:346:GLN:HA	2.09	0.87
1:U:293:MET:HE3	1:U:320:PRO:O	1.73	0.87
1:a:114:ILE:O	1:a:246:ASN:ND2	2.08	0.87
1:a:182:HIS:CD2	1:a:346:GLN:HA	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:241:THR:HG23	1:c:436:VAL:HG12	1.57	0.87
1:e:241:THR:HG23	1:e:436:VAL:HG12	1.57	0.87
1:g:183:ILE:CD1	1:1:458:TYR:CE1	2.57	0.87
1:h:182:HIS:CD2	1:h:346:GLN:HA	2.09	0.87
1:p:183:ILE:CD1	1:q:458:TYR:CE1	2.57	0.87
1:s:114:ILE:O	1:s:246:ASN:ND2	2.08	0.87
1:u:458:TYR:CE1	1:5:183:ILE:CD1	2.57	0.87
1:w:114:ILE:O	1:w:246:ASN:ND2	2.08	0.87
1:x:182:HIS:CD2	1:x:346:GLN:HA	2.09	0.87
1:2:183:ILE:CD1	1:3:458:TYR:CE1	2.57	0.87
1:3:241:THR:HG23	1:3:436:VAL:HG12	1.57	0.87
1:B:182:HIS:CD2	1:B:346:GLN:HA	2.09	0.87
1:B:458:TYR:CE1	1:C:183:ILE:CD1	2.57	0.87
1:E:114:ILE:O	1:E:246:ASN:ND2	2.08	0.87
1:H:183:ILE:CD1	1:I:458:TYR:CE1	2.57	0.87
1:H:219:GLU:HA	1:Z:39:CYS:CB	2.05	0.87
1:H:458:TYR:CE1	1:Z:183:ILE:CD1	2.57	0.87
1:J:183:ILE:CD1	1:a:458:TYR:CE1	2.57	0.87
1:M:114:ILE:O	1:M:246:ASN:ND2	2.08	0.87
1:O:219:GLU:HA	1:d:39:CYS:CB	2.05	0.87
1:R:241:THR:HG23	1:R:436:VAL:HG12	1.57	0.87
1:R:458:TYR:CE1	1:V:183:ILE:CD1	2.57	0.87
1:X:182:HIS:CD2	1:X:346:GLN:HA	2.09	0.87
1:g:114:ILE:O	1:g:246:ASN:ND2	2.08	0.87
1:g:458:TYR:CE1	1:k:183:ILE:CD1	2.57	0.87
1:j:182:HIS:CD2	1:j:346:GLN:HA	2.09	0.87
1:n:182:HIS:CD2	1:n:346:GLN:HA	2.09	0.87
1:q:241:THR:HG23	1:q:436:VAL:HG12	1.57	0.87
1:r:182:HIS:CD2	1:r:346:GLN:HA	2.09	0.87
1:s:293:MET:HE3	1:s:320:PRO:O	1.73	0.87
1:t:293:MET:HE3	1:t:320:PRO:O	1.73	0.87
1:u:114:ILE:O	1:u:246:ASN:ND2	2.08	0.87
1:1:182:HIS:CD2	1:1:346:GLN:HA	2.09	0.87
1:3:114:ILE:O	1:3:246:ASN:ND2	2.08	0.87
1:3:182:HIS:CD2	1:3:346:GLN:HA	2.09	0.87
1:5:219:GLU:HA	1:8:39:CYS:CB	2.05	0.87
1:8:241:THR:HG23	1:8:436:VAL:HG12	1.57	0.87
1:C:458:TYR:CE1	1:D:183:ILE:CD1	2.57	0.87
1:G:293:MET:HE3	1:G:320:PRO:O	1.73	0.87
1:H:182:HIS:CD2	1:H:346:GLN:HA	2.09	0.87
1:I:114:ILE:O	1:I:246:ASN:ND2	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:183:ILE:CD1	1:L:458:TYR:CE1	2.57	0.87
1:S:182:HIS:CD2	1:S:346:GLN:HA	2.09	0.87
1:S:183:ILE:CD1	1:d:458:TYR:CE1	2.57	0.87
1:U:114:ILE:O	1:U:246:ASN:ND2	2.08	0.87
1:Z:182:HIS:CD2	1:Z:346:GLN:HA	2.09	0.87
1:a:241:THR:HG23	1:a:436:VAL:HG12	1.57	0.87
1:f:458:TYR:CE1	1:z:183:ILE:CD1	2.57	0.87
1:h:114:ILE:O	1:h:246:ASN:ND2	2.08	0.87
1:j:114:ILE:O	1:j:246:ASN:ND2	2.08	0.87
1:l:219:GLU:HA	1:n:39:CYS:CB	2.05	0.87
1:n:458:TYR:CE1	1:r:183:ILE:CD1	2.57	0.87
1:p:182:HIS:HD2	1:p:346:GLN:HA	1.35	0.87
1:q:182:HIS:CD2	1:q:346:GLN:HA	2.09	0.87
1:5:241:THR:HG23	1:5:436:VAL:HG12	1.57	0.87
1:7:241:THR:HG23	1:7:436:VAL:HG12	1.57	0.87
1:7:293:MET:HE3	1:7:320:PRO:O	1.73	0.87
1:F:39:CYS:CB	1:G:219:GLU:HA	2.05	0.87
1:J:241:THR:HG23	1:J:436:VAL:HG12	1.57	0.87
1:K:219:GLU:HA	1:7:39:CYS:CB	2.05	0.87
1:L:183:ILE:CD1	1:b:458:TYR:CE1	2.57	0.87
1:P:114:ILE:O	1:P:246:ASN:ND2	2.08	0.87
1:P:182:HIS:CD2	1:P:346:GLN:HA	2.09	0.87
1:T:39:CYS:CB	1:U:219:GLU:HA	2.05	0.87
1:Y:241:THR:HG23	1:Y:436:VAL:HG12	1.57	0.87
1:d:182:HIS:CD2	1:d:346:GLN:HA	2.09	0.87
1:o:182:HIS:CD2	1:o:346:GLN:HA	2.09	0.87
1:z:458:TYR:CE1	1:4:183:ILE:CD1	2.57	0.87
1:8:182:HIS:CD2	1:8:346:GLN:HA	2.09	0.87
1:B:114:ILE:O	1:B:246:ASN:ND2	2.08	0.87
1:G:183:ILE:CD1	1:W:458:TYR:CE1	2.58	0.87
1:H:241:THR:HG23	1:H:436:VAL:HG12	1.57	0.87
1:L:182:HIS:HD2	1:L:346:GLN:HA	1.35	0.87
1:Q:241:THR:HG23	1:Q:436:VAL:HG12	1.57	0.87
1:T:458:TYR:CE1	1:i:183:ILE:CD1	2.57	0.87
1:Y:39:CYS:CB	1:4:219:GLU:HA	2.05	0.87
1:b:183:ILE:CD1	1:o:458:TYR:CE1	2.57	0.87
1:m:39:CYS:CB	1:s:219:GLU:HA	2.05	0.87
1:w:241:THR:HG23	1:w:436:VAL:HG12	1.57	0.87
1:1:114:ILE:O	1:1:246:ASN:ND2	2.08	0.87
1:2:241:THR:HG23	1:2:436:VAL:HG12	1.57	0.87
1:4:114:ILE:O	1:4:246:ASN:ND2	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:182:HIS:CD2	1:5:346:GLN:HA	2.09	0.87
1:E:182:HIS:CD2	1:E:346:GLN:HA	2.09	0.86
1:G:114:ILE:O	1:G:246:ASN:ND2	2.08	0.86
1:K:114:ILE:O	1:K:246:ASN:ND2	2.08	0.86
1:K:182:HIS:CD2	1:K:346:GLN:HA	2.09	0.86
1:N:183:ILE:CD1	1:m:458:TYR:CE1	2.57	0.86
1:V:182:HIS:HD2	1:V:346:GLN:HA	1.35	0.86
1:Y:293:MET:HE3	1:Y:320:PRO:O	1.73	0.86
1:d:114:ILE:O	1:d:246:ASN:ND2	2.08	0.86
1:o:114:ILE:O	1:o:246:ASN:ND2	2.08	0.86
1:v:458:TYR:CE1	1:1:183:ILE:CD1	2.57	0.86
1:x:241:THR:HG23	1:x:436:VAL:HG12	1.57	0.86
1:y:241:THR:HG23	1:y:436:VAL:HG12	1.57	0.86
1:z:182:HIS:HD2	1:z:346:GLN:HA	1.35	0.86
1:4:182:HIS:CD2	1:4:346:GLN:HA	2.09	0.86
1:E:241:THR:HG23	1:E:436:VAL:HG12	1.57	0.86
1:F:241:THR:HG23	1:F:436:VAL:HG12	1.57	0.86
1:G:182:HIS:CD2	1:G:346:GLN:HA	2.09	0.86
1:X:114:ILE:O	1:X:246:ASN:ND2	2.08	0.86
1:X:458:TYR:CE1	1:f:183:ILE:CD1	2.57	0.86
1:n:114:ILE:O	1:n:246:ASN:ND2	2.08	0.86
1:p:182:HIS:CD2	1:p:346:GLN:HA	2.09	0.86
1:t:114:ILE:O	1:t:246:ASN:ND2	2.08	0.86
1:t:182:HIS:CD2	1:t:346:GLN:HA	2.09	0.86
1:w:182:HIS:CD2	1:w:346:GLN:HA	2.09	0.86
1:7:182:HIS:CD2	1:7:346:GLN:HA	2.09	0.86
1:A:458:TYR:HE1	1:B:183:ILE:CD1	1.89	0.86
1:M:458:TYR:CE1	1:c:183:ILE:CD1	2.57	0.86
1:U:39:CYS:CB	1:e:219:GLU:HA	2.05	0.86
1:V:241:THR:HG23	1:V:436:VAL:HG12	1.57	0.86
1:c:293:MET:HE3	1:c:320:PRO:O	1.73	0.86
1:e:183:ILE:CD1	1:h:458:TYR:CE1	2.57	0.86
1:m:114:ILE:O	1:m:246:ASN:ND2	2.08	0.86
1:p:219:GLU:HA	1:6:39:CYS:CB	2.05	0.86
1:N:182:HIS:CD2	1:N:346:GLN:HA	2.09	0.86
1:N:418:LYS:NZ	1:N:424:SER:OG	2.09	0.86
1:O:241:THR:HG23	1:O:436:VAL:HG12	1.57	0.86
1:T:114:ILE:O	1:T:246:ASN:ND2	2.08	0.86
1:V:182:HIS:CD2	1:V:346:GLN:HA	2.09	0.86
1:V:219:GLU:HA	1:W:39:CYS:CB	2.05	0.86
1:Y:182:HIS:CD2	1:Y:346:GLN:HA	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:219:GLU:HA	1:w:39:CYS:CB	2.05	0.86
1:M:219:GLU:HA	1:c:39:CYS:CB	2.05	0.86
1:S:114:ILE:O	1:S:246:ASN:ND2	2.08	0.86
1:X:418:LYS:NZ	1:X:424:SER:OG	2.09	0.86
1:c:219:GLU:HA	1:s:39:CYS:CB	2.05	0.86
1:i:182:HIS:CD2	1:i:346:GLN:HA	2.09	0.86
1:i:418:LYS:NZ	1:i:424:SER:OG	2.09	0.86
1:l:241:THR:HG23	1:l:436:VAL:HG12	1.57	0.86
1:o:418:LYS:NZ	1:o:424:SER:OG	2.09	0.86
1:u:182:HIS:CD2	1:u:346:GLN:HA	2.09	0.86
1:y:114:ILE:O	1:y:246:ASN:ND2	2.08	0.86
1:z:182:HIS:CD2	1:z:346:GLN:HA	2.09	0.86
1:C:182:HIS:CD2	1:C:346:GLN:HA	2.09	0.86
1:F:114:ILE:O	1:F:246:ASN:ND2	2.08	0.86
1:F:183:ILE:CD1	1:G:458:TYR:CE1	2.57	0.86
1:F:418:LYS:NZ	1:F:424:SER:OG	2.09	0.86
1:I:182:HIS:CD2	1:I:346:GLN:HA	2.09	0.86
1:K:39:CYS:CB	1:L:219:GLU:HA	2.05	0.86
1:a:418:LYS:NZ	1:a:424:SER:OG	2.09	0.86
1:b:182:HIS:CD2	1:b:346:GLN:HA	2.09	0.86
1:e:39:CYS:CB	1:h:219:GLU:HA	2.05	0.86
1:e:293:MET:HE3	1:e:320:PRO:O	1.73	0.86
1:p:241:THR:HG23	1:p:436:VAL:HG12	1.57	0.86
1:q:39:CYS:CB	1:y:219:GLU:HA	2.05	0.86
1:y:418:LYS:NZ	1:y:424:SER:OG	2.09	0.86
1:z:219:GLU:HA	1:4:39:CYS:CB	2.05	0.86
1:2:114:ILE:O	1:2:246:ASN:ND2	2.08	0.86
1:3:418:LYS:NZ	1:3:424:SER:OG	2.09	0.86
1:D:219:GLU:HA	1:E:39:CYS:CB	2.05	0.86
1:F:219:GLU:HA	1:R:39:CYS:CB	2.05	0.86
1:H:39:CYS:CB	1:I:219:GLU:HA	2.05	0.86
1:I:418:LYS:NZ	1:I:424:SER:OG	2.09	0.86
1:J:114:ILE:O	1:J:246:ASN:ND2	2.08	0.86
1:L:182:HIS:CD2	1:L:346:GLN:HA	2.09	0.86
1:f:114:ILE:O	1:f:246:ASN:ND2	2.08	0.86
1:f:182:HIS:CD2	1:f:346:GLN:HA	2.09	0.86
1:r:114:ILE:O	1:r:246:ASN:ND2	2.08	0.86
1:C:219:GLU:HA	1:D:39:CYS:CB	2.05	0.86
1:J:418:LYS:NZ	1:J:424:SER:OG	2.09	0.86
1:Q:418:LYS:NZ	1:Q:424:SER:OG	2.09	0.86
1:T:219:GLU:HA	1:i:39:CYS:CB	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:114:ILE:O	1:b:246:ASN:ND2	2.08	0.86
1:g:182:HIS:CD2	1:g:346:GLN:HA	2.09	0.86
1:k:114:ILE:O	1:k:246:ASN:ND2	2.08	0.86
1:m:241:THR:HG23	1:m:436:VAL:HG12	1.57	0.86
1:q:114:ILE:O	1:q:246:ASN:ND2	2.08	0.86
1:u:219:GLU:HA	1:5:39:CYS:CB	2.05	0.86
1:u:418:LYS:NZ	1:u:424:SER:OG	2.09	0.86
1:v:114:ILE:O	1:v:246:ASN:ND2	2.08	0.86
1:x:418:LYS:NZ	1:x:424:SER:OG	2.09	0.86
1:2:418:LYS:NZ	1:2:424:SER:OG	2.09	0.86
1:3:39:CYS:CB	1:8:219:GLU:HA	2.05	0.86
1:7:114:ILE:O	1:7:246:ASN:ND2	2.08	0.86
1:A:114:ILE:O	1:A:246:ASN:ND2	2.08	0.86
1:G:39:CYS:CB	1:W:219:GLU:HA	2.05	0.86
1:J:182:HIS:CD2	1:J:346:GLN:HA	2.09	0.86
1:K:418:LYS:NZ	1:K:424:SER:OG	2.09	0.86
1:O:39:CYS:CB	1:P:219:GLU:HA	2.05	0.86
1:Q:114:ILE:O	1:Q:246:ASN:ND2	2.08	0.86
1:W:114:ILE:O	1:W:246:ASN:ND2	2.08	0.86
1:Y:114:ILE:O	1:Y:246:ASN:ND2	2.08	0.86
1:b:241:THR:HG23	1:b:436:VAL:HG12	1.57	0.86
1:u:39:CYS:CB	1:2:219:GLU:HA	2.05	0.86
1:v:39:CYS:CB	1:w:219:GLU:HA	2.05	0.86
1:2:39:CYS:CB	1:3:219:GLU:HA	2.05	0.86
1:4:418:LYS:NZ	1:4:424:SER:OG	2.09	0.86
1:D:114:ILE:O	1:D:246:ASN:ND2	2.08	0.86
1:H:114:ILE:O	1:H:246:ASN:ND2	2.08	0.86
1:J:39:CYS:CB	1:a:219:GLU:HA	2.05	0.86
1:N:39:CYS:CB	1:m:219:GLU:HA	2.05	0.86
1:O:182:HIS:CD2	1:O:346:GLN:HA	2.09	0.86
1:R:114:ILE:O	1:R:246:ASN:ND2	2.08	0.86
1:R:418:LYS:NZ	1:R:424:SER:OG	2.09	0.86
1:T:241:THR:HG23	1:T:436:VAL:HG12	1.57	0.86
1:Z:219:GLU:HA	1:a:39:CYS:CB	2.05	0.86
1:c:286:LEU:HD11	1:c:398:ILE:HD11	1.58	0.86
1:d:418:LYS:NZ	1:d:424:SER:OG	2.09	0.86
1:e:286:LEU:HD11	1:e:398:ILE:HD11	1.58	0.86
1:g:219:GLU:HA	1:k:39:CYS:CB	2.05	0.86
1:h:418:LYS:NZ	1:h:424:SER:OG	2.09	0.86
1:n:418:LYS:NZ	1:n:424:SER:OG	2.09	0.86
1:q:418:LYS:NZ	1:q:424:SER:OG	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:114:ILE:O	1:8:246:ASN:ND2	2.08	0.86
1:A:277:HIS:HD2	1:G:84:THR:OG1	1.59	0.85
1:I:39:CYS:CB	1:J:219:GLU:HA	2.05	0.85
1:L:114:ILE:O	1:L:246:ASN:ND2	2.08	0.85
1:L:286:LEU:HD11	1:L:398:ILE:HD11	1.58	0.85
1:M:418:LYS:NZ	1:M:424:SER:OG	2.09	0.85
1:V:418:LYS:NZ	1:V:424:SER:OG	2.09	0.85
1:Z:114:ILE:O	1:Z:246:ASN:ND2	2.08	0.85
1:f:241:THR:HG23	1:f:436:VAL:HG12	1.57	0.85
1:l:182:HIS:CD2	1:l:346:GLN:HA	2.09	0.85
1:p:39:CYS:CB	1:q:219:GLU:HA	2.05	0.85
1:p:114:ILE:O	1:p:246:ASN:ND2	2.08	0.85
1:w:286:LEU:HD11	1:w:398:ILE:HD11	1.58	0.85
1:w:418:LYS:NZ	1:w:424:SER:OG	2.09	0.85
1:x:114:ILE:O	1:x:246:ASN:ND2	2.08	0.85
1:z:418:LYS:NZ	1:z:424:SER:OG	2.09	0.85
1:2:182:HIS:CD2	1:2:346:GLN:HA	2.09	0.85
1:5:114:ILE:O	1:5:246:ASN:ND2	2.08	0.85
1:6:114:ILE:O	1:6:246:ASN:ND2	2.08	0.85
1:C:418:LYS:NZ	1:C:424:SER:OG	2.09	0.85
1:E:418:LYS:NZ	1:E:424:SER:OG	2.09	0.85
1:G:418:LYS:NZ	1:G:424:SER:OG	2.09	0.85
1:H:286:LEU:HD11	1:H:398:ILE:HD11	1.58	0.85
1:L:241:THR:HG23	1:L:436:VAL:HG12	1.57	0.85
1:L:418:LYS:NZ	1:L:424:SER:OG	2.09	0.85
1:Q:39:CYS:CB	1:S:219:GLU:HA	2.05	0.85
1:R:219:GLU:HA	1:V:39:CYS:CB	2.05	0.85
1:e:418:LYS:NZ	1:e:424:SER:OG	2.09	0.85
1:j:219:GLU:HA	1:l:39:CYS:CB	2.05	0.85
1:p:418:LYS:NZ	1:p:424:SER:OG	2.09	0.85
1:t:418:LYS:NZ	1:t:424:SER:OG	2.09	0.85
1:z:114:ILE:O	1:z:246:ASN:ND2	2.08	0.85
1:z:241:THR:HG23	1:z:436:VAL:HG12	1.57	0.85
1:z:286:LEU:HD11	1:z:398:ILE:HD11	1.58	0.85
1:6:241:THR:HG23	1:6:436:VAL:HG12	1.57	0.85
1:A:39:CYS:CB	1:E:219:GLU:HA	2.06	0.85
1:E:286:LEU:HD11	1:E:398:ILE:HD11	1.58	0.85
1:M:293:MET:HE3	1:M:320:PRO:O	1.73	0.85
1:N:114:ILE:O	1:N:246:ASN:ND2	2.08	0.85
1:V:114:ILE:O	1:V:246:ASN:ND2	2.08	0.85
1:W:241:THR:HG23	1:W:436:VAL:HG12	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:418:LYS:NZ	1:Y:424:SER:OG	2.09	0.85
1:c:418:LYS:NZ	1:c:424:SER:OG	2.09	0.85
1:f:418:LYS:NZ	1:f:424:SER:OG	2.09	0.85
1:g:286:LEU:HD11	1:g:398:ILE:HD11	1.58	0.85
1:g:418:LYS:NZ	1:g:424:SER:OG	2.09	0.85
1:r:219:GLU:HA	1:x:39:CYS:CB	2.05	0.85
1:C:286:LEU:HD11	1:C:398:ILE:HD11	1.58	0.85
1:P:418:LYS:NZ	1:P:424:SER:OG	2.09	0.85
1:b:39:CYS:CB	1:o:219:GLU:HA	2.05	0.85
1:c:182:HIS:CD2	1:c:346:GLN:HA	2.09	0.85
1:d:286:LEU:HD11	1:d:398:ILE:HD11	1.58	0.85
1:f:219:GLU:HA	1:z:39:CYS:CB	2.05	0.85
1:i:114:ILE:O	1:i:246:ASN:ND2	2.08	0.85
1:4:286:LEU:HD11	1:4:398:ILE:HD11	1.58	0.85
1:5:286:LEU:HD11	1:5:398:ILE:HD11	1.58	0.85
1:7:418:LYS:NZ	1:7:424:SER:OG	2.09	0.85
1:J:286:LEU:HD11	1:J:398:ILE:HD11	1.58	0.85
1:K:286:LEU:HD11	1:K:398:ILE:HD11	1.58	0.85
1:L:39:CYS:CB	1:b:219:GLU:HA	2.05	0.85
1:P:39:CYS:CB	1:Q:219:GLU:HA	2.05	0.85
1:S:241:THR:HG23	1:S:436:VAL:HG12	1.57	0.85
1:b:418:LYS:NZ	1:b:424:SER:OG	2.09	0.85
1:j:418:LYS:NZ	1:j:424:SER:OG	2.09	0.85
1:r:241:THR:HG23	1:r:436:VAL:HG12	1.57	0.85
1:8:418:LYS:NZ	1:8:424:SER:OG	2.09	0.85
1:M:39:CYS:CB	1:N:219:GLU:HA	2.05	0.85
1:X:39:CYS:CB	1:Y:219:GLU:HA	2.05	0.85
1:X:219:GLU:HA	1:f:39:CYS:CB	2.05	0.85
1:e:183:ILE:CD1	1:h:458:TYR:HE1	1.90	0.85
1:h:293:MET:HE3	1:h:320:PRO:O	1.73	0.85
1:i:241:THR:HG23	1:i:436:VAL:HG12	1.57	0.85
1:j:39:CYS:CB	1:x:219:GLU:HA	2.05	0.85
1:n:286:LEU:HD11	1:n:398:ILE:HD11	1.58	0.85
1:o:39:CYS:CB	1:7:219:GLU:HA	2.05	0.85
1:t:458:TYR:HE1	1:y:183:ILE:CD1	1.87	0.85
1:v:219:GLU:HA	1:1:39:CYS:CB	2.05	0.85
1:2:286:LEU:HD11	1:2:398:ILE:HD11	1.58	0.85
1:5:418:LYS:NZ	1:5:424:SER:OG	2.09	0.85
1:M:241:THR:HG23	1:M:436:VAL:HG12	1.57	0.85
1:M:458:TYR:HE1	1:c:183:ILE:CD1	1.90	0.85
1:N:241:THR:HG23	1:N:436:VAL:HG12	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:39:CYS:CB	1:d:219:GLU:HA	2.05	0.85
1:V:458:TYR:HE1	1:W:183:ILE:CD1	1.90	0.85
1:e:182:HIS:CD2	1:e:346:GLN:HA	2.09	0.85
1:i:286:LEU:HD11	1:i:398:ILE:HD11	1.58	0.85
1:t:277:HIS:HD2	1:u:84:THR:OG1	1.59	0.85
1:v:458:TYR:HE1	1:1:183:ILE:CD1	1.90	0.85
1:B:286:LEU:HD11	1:B:398:ILE:HD11	1.58	0.85
1:D:241:THR:HG23	1:D:436:VAL:HG12	1.57	0.85
1:H:418:LYS:NZ	1:H:424:SER:OG	2.09	0.85
1:K:241:THR:HG23	1:K:436:VAL:HG12	1.57	0.85
1:N:95:TYR:O	1:N:187:PRO:HD2	1.77	0.85
1:N:286:LEU:HD11	1:N:398:ILE:HD11	1.58	0.85
1:X:286:LEU:HD11	1:X:398:ILE:HD11	1.58	0.85
1:Z:418:LYS:NZ	1:Z:424:SER:OG	2.09	0.85
1:d:241:THR:HG23	1:d:436:VAL:HG12	1.57	0.85
1:h:39:CYS:CB	1:i:219:GLU:HA	2.05	0.85
1:h:241:THR:HG23	1:h:436:VAL:HG12	1.57	0.85
1:j:277:HIS:HD2	1:k:84:THR:OG1	1.60	0.85
1:n:219:GLU:HA	1:r:39:CYS:CB	2.05	0.85
1:n:241:THR:HG23	1:n:436:VAL:HG12	1.57	0.85
1:p:458:TYR:HE1	1:6:183:ILE:CD1	1.90	0.85
1:1:418:LYS:NZ	1:1:424:SER:OG	2.09	0.85
1:B:418:LYS:NZ	1:B:424:SER:OG	2.09	0.85
1:G:95:TYR:O	1:G:187:PRO:HD2	1.77	0.85
1:H:95:TYR:O	1:H:187:PRO:HD2	1.77	0.85
1:O:277:HIS:HD2	1:m:84:THR:OG1	1.60	0.85
1:Q:183:ILE:CD1	1:S:458:TYR:HE1	1.90	0.85
1:i:95:TYR:O	1:i:187:PRO:HD2	1.77	0.85
1:l:418:LYS:NZ	1:l:424:SER:OG	2.09	0.85
1:r:458:TYR:HE1	1:x:183:ILE:CD1	1.90	0.85
1:t:183:ILE:CD1	1:6:458:TYR:CE1	2.59	0.85
1:v:418:LYS:NZ	1:v:424:SER:OG	2.09	0.85
1:1:286:LEU:HD11	1:1:398:ILE:HD11	1.58	0.85
1:4:241:THR:HG23	1:4:436:VAL:HG12	1.57	0.85
1:O:95:TYR:O	1:O:187:PRO:HD2	1.77	0.85
1:R:84:THR:OG1	1:U:277:HIS:HD2	1.60	0.85
1:T:84:THR:OG1	1:l:277:HIS:HD2	1.60	0.85
1:c:277:HIS:HD2	1:o:84:THR:OG1	1.60	0.85
1:l:95:TYR:O	1:l:187:PRO:HD2	1.77	0.85
1:o:286:LEU:HD11	1:o:398:ILE:HD11	1.58	0.85
1:x:277:HIS:HD2	1:y:84:THR:OG1	1.60	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:LYS:NZ	1:A:424:SER:OG	2.09	0.84
1:B:219:GLU:HA	1:C:39:CYS:CB	2.05	0.84
1:C:95:TYR:O	1:C:187:PRO:HD2	1.77	0.84
1:D:84:THR:OG1	1:P:277:HIS:HD2	1.60	0.84
1:F:84:THR:OG1	1:Q:277:HIS:HD2	1.60	0.84
1:O:418:LYS:NZ	1:O:424:SER:OG	2.09	0.84
1:X:84:THR:OG1	1:e:277:HIS:HD2	1.60	0.84
1:X:95:TYR:O	1:X:187:PRO:HD2	1.77	0.84
1:X:458:TYR:HE1	1:f:183:ILE:CD1	1.90	0.84
1:k:241:THR:HG23	1:k:436:VAL:HG12	1.57	0.84
1:p:95:TYR:O	1:p:187:PRO:HD2	1.77	0.84
1:q:84:THR:OG1	1:s:277:HIS:HD2	1.60	0.84
1:q:277:HIS:HD2	1:r:84:THR:OG1	1.60	0.84
1:s:418:LYS:NZ	1:s:424:SER:OG	2.09	0.84
1:t:95:TYR:O	1:t:187:PRO:HD2	1.77	0.84
1:t:286:LEU:HD11	1:t:398:ILE:HD11	1.58	0.84
1:5:95:TYR:O	1:5:187:PRO:HD2	1.77	0.84
1:A:95:TYR:O	1:A:187:PRO:HD2	1.77	0.84
1:E:95:TYR:O	1:E:187:PRO:HD2	1.77	0.84
1:F:95:TYR:O	1:F:187:PRO:HD2	1.77	0.84
1:K:95:TYR:O	1:K:187:PRO:HD2	1.77	0.84
1:R:277:HIS:HD2	1:S:84:THR:OG1	1.60	0.84
1:S:418:LYS:NZ	1:S:424:SER:OG	2.09	0.84
1:T:418:LYS:NZ	1:T:424:SER:OG	2.09	0.84
1:V:95:TYR:O	1:V:187:PRO:HD2	1.77	0.84
1:Z:458:TYR:HE1	1:a:183:ILE:CD1	1.90	0.84
1:b:183:ILE:CD1	1:o:458:TYR:HE1	1.90	0.84
1:g:39:CYS:CB	1:1:219:GLU:HA	2.05	0.84
1:m:418:LYS:NZ	1:m:424:SER:OG	2.09	0.84
1:o:95:TYR:O	1:o:187:PRO:HD2	1.77	0.84
1:v:95:TYR:O	1:v:187:PRO:HD2	1.77	0.84
1:w:95:TYR:O	1:w:187:PRO:HD2	1.77	0.84
1:2:95:TYR:O	1:2:187:PRO:HD2	1.77	0.84
1:6:95:TYR:O	1:6:187:PRO:HD2	1.77	0.84
1:A:241:THR:HG23	1:A:436:VAL:HG12	1.57	0.84
1:F:371:LEU:HB3	1:F:375:ASN:HB2	1.59	0.84
1:G:241:THR:HG23	1:G:436:VAL:HG12	1.57	0.84
1:G:277:HIS:HD2	1:I:84:THR:OG1	1.60	0.84
1:G:286:LEU:HD11	1:G:398:ILE:HD11	1.58	0.84
1:I:371:LEU:HB3	1:I:375:ASN:HB2	1.60	0.84
1:J:95:TYR:O	1:J:187:PRO:HD2	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:183:ILE:CD1	1:N:458:TYR:HE1	1.90	0.84
1:R:458:TYR:HE1	1:V:183:ILE:CD1	1.90	0.84
1:U:418:LYS:NZ	1:U:424:SER:OG	2.09	0.84
1:W:95:TYR:O	1:W:187:PRO:HD2	1.77	0.84
1:Z:84:THR:OG1	1:3:277:HIS:HD2	1.61	0.84
1:g:95:TYR:O	1:g:187:PRO:HD2	1.77	0.84
1:p:183:ILE:CD1	1:q:458:TYR:HE1	1.90	0.84
1:q:286:LEU:HD11	1:q:398:ILE:HD11	1.58	0.84
1:r:371:LEU:HB3	1:r:375:ASN:HB2	1.60	0.84
1:r:418:LYS:NZ	1:r:424:SER:OG	2.09	0.84
1:v:241:THR:HG23	1:v:436:VAL:HG12	1.57	0.84
1:y:95:TYR:O	1:y:187:PRO:HD2	1.77	0.84
1:1:241:THR:HG23	1:1:436:VAL:HG12	1.57	0.84
1:3:183:ILE:CD1	1:8:458:TYR:HE1	1.90	0.84
1:4:95:TYR:O	1:4:187:PRO:HD2	1.77	0.84
1:6:371:LEU:HB3	1:6:375:ASN:HB2	1.60	0.84
1:F:286:LEU:HD11	1:F:398:ILE:HD11	1.58	0.84
1:M:84:THR:OG1	1:b:277:HIS:HD2	1.60	0.84
1:S:95:TYR:O	1:S:187:PRO:HD2	1.77	0.84
1:S:371:LEU:HB3	1:S:375:ASN:HB2	1.60	0.84
1:W:371:LEU:HB3	1:W:375:ASN:HB2	1.60	0.84
1:W:418:LYS:NZ	1:W:424:SER:OG	2.09	0.84
1:Z:95:TYR:O	1:Z:187:PRO:HD2	1.77	0.84
1:a:277:HIS:HD2	1:8:84:THR:OG1	1.61	0.84
1:f:277:HIS:HD2	1:h:84:THR:OG1	1.60	0.84
1:h:183:ILE:CD1	1:i:458:TYR:HE1	1.90	0.84
1:i:277:HIS:HD2	1:j:84:THR:OG1	1.60	0.84
1:u:371:LEU:HB3	1:u:375:ASN:HB2	1.60	0.84
1:6:418:LYS:NZ	1:6:424:SER:OG	2.09	0.84
1:8:95:TYR:O	1:8:187:PRO:HD2	1.77	0.84
1:A:371:LEU:HB3	1:A:375:ASN:HB2	1.60	0.84
1:B:241:THR:HG23	1:B:436:VAL:HG12	1.57	0.84
1:R:286:LEU:HD11	1:R:398:ILE:HD11	1.58	0.84
1:U:241:THR:HG23	1:U:436:VAL:HG12	1.57	0.84
1:b:286:LEU:HD11	1:b:398:ILE:HD11	1.58	0.84
1:f:286:LEU:HD11	1:f:398:ILE:HD11	1.58	0.84
1:k:371:LEU:HB3	1:k:375:ASN:HB2	1.60	0.84
1:l:458:TYR:HE1	1:n:183:ILE:CD1	1.90	0.84
1:r:95:TYR:O	1:r:187:PRO:HD2	1.77	0.84
1:y:286:LEU:HD11	1:y:398:ILE:HD11	1.58	0.84
1:y:371:LEU:HB3	1:y:375:ASN:HB2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:371:LEU:HB3	1:1:375:ASN:HB2	1.60	0.84
1:B:371:LEU:HB3	1:B:375:ASN:HB2	1.60	0.84
1:C:371:LEU:HB3	1:C:375:ASN:HB2	1.60	0.84
1:O:286:LEU:HD11	1:O:398:ILE:HD11	1.58	0.84
1:R:95:TYR:O	1:R:187:PRO:HD2	1.77	0.84
1:b:95:TYR:O	1:b:187:PRO:HD2	1.77	0.84
1:f:95:TYR:O	1:f:187:PRO:HD2	1.77	0.84
1:g:458:TYR:HE1	1:k:183:ILE:CD1	1.90	0.84
1:k:418:LYS:NZ	1:k:424:SER:OG	2.09	0.84
1:l:286:LEU:HD11	1:l:398:ILE:HD11	1.58	0.84
1:s:241:THR:HG23	1:s:436:VAL:HG12	1.57	0.84
1:w:277:HIS:HD2	1:x:84:THR:OG1	1.60	0.84
1:7:286:LEU:HD11	1:7:398:ILE:HD11	1.58	0.84
1:D:371:LEU:HB3	1:D:375:ASN:HB2	1.60	0.84
1:N:277:HIS:HD2	1:P:84:THR:OG1	1.60	0.84
1:O:458:TYR:HE1	1:d:183:ILE:CD1	1.90	0.84
1:g:371:LEU:HB3	1:g:375:ASN:HB2	1.60	0.84
1:t:241:THR:HG23	1:t:436:VAL:HG12	1.57	0.84
1:u:95:TYR:O	1:u:187:PRO:HD2	1.77	0.84
1:v:371:LEU:HB3	1:v:375:ASN:HB2	1.60	0.84
1:z:84:THR:OG1	1:2:277:HIS:HD2	1.60	0.84
1:z:458:TYR:HE1	1:4:183:ILE:CD1	1.90	0.84
1:C:458:TYR:HE1	1:D:183:ILE:CD1	1.90	0.84
1:D:418:LYS:NZ	1:D:424:SER:OG	2.09	0.84
1:E:277:HIS:HD2	1:Q:84:THR:OG1	1.60	0.84
1:H:84:THR:OG1	1:Y:277:HIS:HD2	1.60	0.84
1:I:241:THR:HG23	1:I:436:VAL:HG12	1.57	0.84
1:P:95:TYR:O	1:P:187:PRO:HD2	1.77	0.84
1:T:277:HIS:HD2	1:d:84:THR:OG1	1.60	0.84
1:Y:286:LEU:HD11	1:Y:398:ILE:HD11	1.58	0.84
1:c:84:THR:OG1	1:p:277:HIS:HD2	1.60	0.84
1:m:277:HIS:HD2	1:n:84:THR:OG1	1.60	0.84
1:q:95:TYR:O	1:q:187:PRO:HD2	1.77	0.84
1:u:241:THR:HG23	1:u:436:VAL:HG12	1.57	0.84
1:I:95:TYR:O	1:I:187:PRO:HD2	1.77	0.84
1:J:277:HIS:HD2	1:L:84:THR:OG1	1.60	0.84
1:m:183:ILE:CD1	1:s:458:TYR:HE1	1.90	0.84
1:w:371:LEU:HB3	1:w:375:ASN:HB2	1.60	0.84
1:5:84:THR:OG1	1:7:277:HIS:HD2	1.60	0.84
1:E:84:THR:OG1	1:F:277:HIS:HD2	1.60	0.84
1:E:371:LEU:HB3	1:E:375:ASN:HB2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:458:TYR:HE1	1:R:183:ILE:CD1	1.90	0.84
1:H:277:HIS:HD2	1:W:84:THR:OG1	1.60	0.84
1:T:183:ILE:CD1	1:U:458:TYR:HE1	1.90	0.84
1:U:286:LEU:HD11	1:U:398:ILE:HD11	1.58	0.84
1:V:277:HIS:HD2	1:e:84:THR:OG1	1.60	0.84
1:a:95:TYR:O	1:a:187:PRO:HD2	1.77	0.84
1:j:95:TYR:O	1:j:187:PRO:HD2	1.77	0.84
1:z:95:TYR:O	1:z:187:PRO:HD2	1.77	0.84
1:3:95:TYR:O	1:3:187:PRO:HD2	1.77	0.84
1:q:183:ILE:CD1	1:y:458:TYR:HE1	1.91	0.83
1:u:277:HIS:HD2	1:v:84:THR:OG1	1.60	0.83
1:x:286:LEU:HD11	1:x:398:ILE:HD11	1.58	0.83
1:2:371:LEU:HB3	1:2:375:ASN:HB2	1.60	0.83
1:J:371:LEU:HB3	1:J:375:ASN:HB2	1.60	0.83
1:L:95:TYR:O	1:L:187:PRO:HD2	1.77	0.83
1:Q:286:LEU:HD11	1:Q:398:ILE:HD11	1.58	0.83
1:Q:371:LEU:HB3	1:Q:375:ASN:HB2	1.60	0.83
1:j:286:LEU:HD11	1:j:398:ILE:HD11	1.58	0.83
1:5:277:HIS:HD2	1:6:84:THR:OG1	1.60	0.83
1:B:84:THR:OG1	1:L:277:HIS:HD2	1.60	0.83
1:B:277:HIS:HD2	1:J:84:THR:OG1	1.60	0.83
1:C:84:THR:OG1	1:M:277:HIS:HD2	1.60	0.83
1:Q:95:TYR:O	1:Q:187:PRO:HD2	1.77	0.83
1:S:277:HIS:HD2	1:U:84:THR:OG1	1.60	0.83
1:Z:286:LEU:HD11	1:Z:398:ILE:HD11	1.58	0.83
1:s:95:TYR:O	1:s:187:PRO:HD2	1.77	0.83
1:s:286:LEU:HD11	1:s:398:ILE:HD11	1.58	0.83
1:t:39:CYS:CB	1:6:219:GLU:HA	2.08	0.83
1:x:371:LEU:HB3	1:x:375:ASN:HB2	1.60	0.83
1:D:95:TYR:O	1:D:187:PRO:HD2	1.77	0.83
1:P:286:LEU:HD11	1:P:398:ILE:HD11	1.58	0.83
1:h:286:LEU:HD11	1:h:398:ILE:HD11	1.58	0.83
1:k:95:TYR:O	1:k:187:PRO:HD2	1.77	0.83
1:r:277:HIS:HD2	1:s:84:THR:OG1	1.60	0.83
1:w:84:THR:OG1	1:y:277:HIS:HD2	1.60	0.83
1:3:84:THR:OG1	1:4:277:HIS:HD2	1.60	0.83
1:8:286:LEU:HD11	1:8:398:ILE:HD11	1.58	0.83
1:M:286:LEU:HD11	1:M:398:ILE:HD11	1.58	0.83
1:R:371:LEU:HB3	1:R:375:ASN:HB2	1.60	0.83
1:V:371:LEU:HB3	1:V:375:ASN:HB2	1.60	0.83
1:q:371:LEU:HB3	1:q:375:ASN:HB2	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:95:TYR:O	1:x:187:PRO:HD2	1.77	0.83
1:z:277:HIS:HD2	1:1:84:THR:OG1	1.60	0.83
1:1:277:HIS:HD2	1:2:84:THR:OG1	1.60	0.83
1:D:458:TYR:HE1	1:E:183:ILE:CD1	1.90	0.83
1:U:95:TYR:O	1:U:187:PRO:HD2	1.77	0.83
1:U:371:LEU:HB3	1:U:375:ASN:HB2	1.60	0.83
1:V:518:LEU:HD21	1:V:522:TRP:HB2	1.61	0.83
1:e:95:TYR:O	1:e:187:PRO:HD2	1.77	0.83
1:g:84:THR:OG1	1:h:277:HIS:HD2	1.60	0.83
1:k:458:TYR:HE1	1:w:183:ILE:CD1	1.90	0.83
1:k:518:LEU:HD21	1:k:522:TRP:HB2	1.61	0.83
1:m:286:LEU:HD11	1:m:398:ILE:HD11	1.58	0.83
1:p:371:LEU:HB3	1:p:375:ASN:HB2	1.60	0.83
1:p:518:LEU:HD21	1:p:522:TRP:HB2	1.61	0.83
1:s:371:LEU:HB3	1:s:375:ASN:HB2	1.60	0.83
1:6:277:HIS:HD2	1:7:84:THR:OG1	1.60	0.83
1:D:518:LEU:HD21	1:D:522:TRP:HB2	1.61	0.83
1:K:277:HIS:HD2	1:a:84:THR:OG1	1.60	0.83
1:T:95:TYR:O	1:T:187:PRO:HD2	1.77	0.83
1:W:277:HIS:HD2	1:Y:84:THR:OG1	1.60	0.83
1:a:518:LEU:HD21	1:a:522:TRP:HB2	1.61	0.83
1:j:458:TYR:HE1	1:l:183:ILE:CD1	1.91	0.83
1:m:371:LEU:HB3	1:m:375:ASN:HB2	1.59	0.83
1:p:286:LEU:HD11	1:p:398:ILE:HD11	1.58	0.83
1:3:518:LEU:HD21	1:3:522:TRP:HB2	1.61	0.83
1:4:371:LEU:HB3	1:4:375:ASN:HB2	1.59	0.83
1:7:95:TYR:O	1:7:187:PRO:HD2	1.77	0.83
1:A:286:LEU:HD11	1:A:398:ILE:HD11	1.58	0.83
1:I:286:LEU:HD11	1:I:398:ILE:HD11	1.58	0.83
1:K:84:THR:OG1	1:8:277:HIS:HD2	1.60	0.83
1:K:371:LEU:HB3	1:K:375:ASN:HB2	1.60	0.83
1:O:183:ILE:CD1	1:P:458:TYR:HE1	1.90	0.83
1:T:371:LEU:HB3	1:T:375:ASN:HB2	1.60	0.83
1:d:95:TYR:O	1:d:187:PRO:HD2	1.77	0.83
1:f:84:THR:OG1	1:g:277:HIS:HD2	1.60	0.83
1:i:371:LEU:HB3	1:i:375:ASN:HB2	1.60	0.83
1:H:183:ILE:CD1	1:I:458:TYR:HE1	1.90	0.83
1:L:371:LEU:HB3	1:L:375:ASN:HB2	1.60	0.83
1:M:95:TYR:O	1:M:187:PRO:HD2	1.77	0.83
1:N:371:LEU:HB3	1:N:375:ASN:HB2	1.60	0.83
1:T:286:LEU:HD11	1:T:398:ILE:HD11	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:371:LEU:HB3	1:b:375:ASN:HB2	1.60	0.83
1:c:95:TYR:O	1:c:187:PRO:HD2	1.77	0.83
1:f:371:LEU:HB3	1:f:375:ASN:HB2	1.60	0.83
1:f:518:LEU:HD21	1:f:522:TRP:HB2	1.61	0.83
1:q:518:LEU:HD21	1:q:522:TRP:HB2	1.61	0.83
1:z:371:LEU:HB3	1:z:375:ASN:HB2	1.60	0.83
1:1:95:TYR:O	1:1:187:PRO:HD2	1.77	0.83
1:C:277:HIS:HD2	1:b:84:THR:OG1	1.60	0.83
1:R:518:LEU:HD21	1:R:522:TRP:HB2	1.61	0.83
1:V:286:LEU:HD11	1:V:398:ILE:HD11	1.58	0.83
1:Y:95:TYR:O	1:Y:187:PRO:HD2	1.77	0.83
1:b:518:LEU:HD21	1:b:522:TRP:HB2	1.61	0.83
1:m:95:TYR:O	1:m:187:PRO:HD2	1.77	0.83
1:n:95:TYR:O	1:n:187:PRO:HD2	1.77	0.83
1:t:84:THR:OG1	1:v:277:HIS:HD2	1.62	0.83
1:t:371:LEU:HB3	1:t:375:ASN:HB2	1.60	0.83
1:v:286:LEU:HD11	1:v:398:ILE:HD11	1.58	0.83
1:A:518:LEU:HD21	1:A:522:TRP:HB2	1.61	0.82
1:B:95:TYR:O	1:B:187:PRO:HD2	1.77	0.82
1:G:371:LEU:HB3	1:G:375:ASN:HB2	1.60	0.82
1:V:84:THR:OG1	1:X:277:HIS:HD2	1.60	0.82
1:X:518:LEU:HD21	1:X:522:TRP:HB2	1.61	0.82
1:Z:277:HIS:HD2	1:4:84:THR:OG1	1.60	0.82
1:a:371:LEU:HB3	1:a:375:ASN:HB2	1.60	0.82
1:h:95:TYR:O	1:h:187:PRO:HD2	1.77	0.82
1:h:371:LEU:HB3	1:h:375:ASN:HB2	1.60	0.82
1:j:371:LEU:HB3	1:j:375:ASN:HB2	1.60	0.82
1:o:277:HIS:HD2	1:p:84:THR:OG1	1.60	0.82
1:o:518:LEU:HD21	1:o:522:TRP:HB2	1.61	0.82
1:u:183:ILE:CD1	1:2:458:TYR:HE1	1.90	0.82
1:u:458:TYR:HE1	1:5:183:ILE:CD1	1.90	0.82
1:3:286:LEU:HD11	1:3:398:ILE:HD11	1.58	0.82
1:J:518:LEU:HD21	1:J:522:TRP:HB2	1.61	0.82
1:O:518:LEU:HD21	1:O:522:TRP:HB2	1.61	0.82
1:l:518:LEU:HD21	1:l:522:TRP:HB2	1.61	0.82
1:v:518:LEU:HD21	1:v:522:TRP:HB2	1.61	0.82
1:2:518:LEU:HD21	1:2:522:TRP:HB2	1.61	0.82
1:6:286:LEU:HD11	1:6:398:ILE:HD11	1.58	0.82
1:8:371:LEU:HB3	1:8:375:ASN:HB2	1.60	0.82
1:D:277:HIS:HD2	1:N:84:THR:OG1	1.60	0.82
1:I:183:ILE:CD1	1:J:458:TYR:HE1	1.90	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:371:LEU:HB3	1:M:375:ASN:HB2	1.60	0.82
1:O:371:LEU:HB3	1:O:375:ASN:HB2	1.60	0.82
1:P:371:LEU:HB3	1:P:375:ASN:HB2	1.59	0.82
1:W:286:LEU:HD11	1:W:398:ILE:HD11	1.58	0.82
1:Z:371:LEU:HB3	1:Z:375:ASN:HB2	1.60	0.82
1:o:371:LEU:HB3	1:o:375:ASN:HB2	1.60	0.82
1:u:286:LEU:HD11	1:u:398:ILE:HD11	1.58	0.82
1:U:183:ILE:CD1	1:e:458:TYR:HE1	1.90	0.82
1:U:518:LEU:HD21	1:U:522:TRP:HB2	1.61	0.82
1:X:371:LEU:HB3	1:X:375:ASN:HB2	1.60	0.82
1:a:286:LEU:HD11	1:a:398:ILE:HD11	1.58	0.82
1:c:458:TYR:HE1	1:s:183:ILE:CD1	1.90	0.82
1:l:371:LEU:HB3	1:l:375:ASN:HB2	1.60	0.82
1:3:371:LEU:HB3	1:3:375:ASN:HB2	1.60	0.82
1:8:518:LEU:HD21	1:8:522:TRP:HB2	1.61	0.82
1:W:518:LEU:HD21	1:W:522:TRP:HB2	1.61	0.82
1:Z:518:LEU:HD21	1:Z:522:TRP:HB2	1.61	0.82
1:i:84:THR:OG1	1:k:277:HIS:HD2	1.60	0.82
1:s:518:LEU:HD21	1:s:522:TRP:HB2	1.61	0.82
1:I:518:LEU:HD21	1:I:522:TRP:HB2	1.61	0.82
1:d:277:HIS:HD2	1:l:84:THR:OG1	1.61	0.82
1:j:518:LEU:HD21	1:j:522:TRP:HB2	1.61	0.82
1:6:518:LEU:HD21	1:6:522:TRP:HB2	1.61	0.82
1:O:84:THR:OG1	1:n:277:HIS:HD2	1.61	0.82
1:P:518:LEU:HD21	1:P:522:TRP:HB2	1.61	0.82
1:u:518:LEU:HD21	1:u:522:TRP:HB2	1.61	0.82
1:K:183:ILE:CD1	1:L:458:TYR:HE1	1.90	0.82
1:N:518:LEU:HD21	1:N:522:TRP:HB2	1.61	0.82
1:d:518:LEU:HD21	1:d:522:TRP:HB2	1.61	0.82
1:n:518:LEU:HD21	1:n:522:TRP:HB2	1.61	0.82
1:F:183:ILE:CD1	1:G:458:TYR:HE1	1.90	0.81
1:c:371:LEU:HB3	1:c:375:ASN:HB2	1.60	0.81
1:1:518:LEU:HD21	1:1:522:TRP:HB2	1.61	0.81
1:5:371:LEU:HB3	1:5:375:ASN:HB2	1.60	0.81
1:B:518:LEU:HD21	1:B:522:TRP:HB2	1.61	0.81
1:d:371:LEU:HB3	1:d:375:ASN:HB2	1.60	0.81
1:D:286:LEU:HD11	1:D:398:ILE:HD11	1.58	0.81
1:H:371:LEU:HB3	1:H:375:ASN:HB2	1.59	0.81
1:L:183:ILE:CD1	1:b:458:TYR:HE1	1.90	0.81
1:L:518:LEU:HD21	1:L:522:TRP:HB2	1.61	0.81
1:M:518:LEU:HD21	1:M:522:TRP:HB2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:518:LEU:HD21	1:Q:522:TRP:HB2	1.61	0.81
1:Y:371:LEU:HB3	1:Y:375:ASN:HB2	1.60	0.81
1:c:518:LEU:HD21	1:c:522:TRP:HB2	1.61	0.81
1:e:371:LEU:HB3	1:e:375:ASN:HB2	1.60	0.81
1:e:518:LEU:HD21	1:e:522:TRP:HB2	1.61	0.81
1:f:458:TYR:HE1	1:z:183:ILE:CD1	1.90	0.81
1:h:518:LEU:HD21	1:h:522:TRP:HB2	1.61	0.81
1:i:518:LEU:HD21	1:i:522:TRP:HB2	1.61	0.81
1:r:286:LEU:HD11	1:r:398:ILE:HD11	1.58	0.81
1:z:518:LEU:HD21	1:z:522:TRP:HB2	1.61	0.81
1:C:518:LEU:HD21	1:C:522:TRP:HB2	1.61	0.81
1:E:518:LEU:HD21	1:E:522:TRP:HB2	1.61	0.81
1:K:518:LEU:HD21	1:K:522:TRP:HB2	1.61	0.81
1:g:518:LEU:HD21	1:g:522:TRP:HB2	1.61	0.81
1:n:371:LEU:HB3	1:n:375:ASN:HB2	1.60	0.81
1:x:518:LEU:HD21	1:x:522:TRP:HB2	1.61	0.81
1:4:518:LEU:HD21	1:4:522:TRP:HB2	1.61	0.81
1:k:286:LEU:HD11	1:k:398:ILE:HD11	1.58	0.81
1:7:371:LEU:HB3	1:7:375:ASN:HB2	1.60	0.81
1:S:286:LEU:HD11	1:S:398:ILE:HD11	1.58	0.81
1:w:518:LEU:HD21	1:w:522:TRP:HB2	1.61	0.81
1:2:183:ILE:CD1	1:3:458:TYR:HE1	1.90	0.81
1:J:183:ILE:CD1	1:a:458:TYR:HE1	1.90	0.81
1:r:518:LEU:HD21	1:r:522:TRP:HB2	1.61	0.81
1:y:518:LEU:HD21	1:y:522:TRP:HB2	1.61	0.81
1:S:518:LEU:HD21	1:S:522:TRP:HB2	1.61	0.80
1:A:84:THR:OG1	1:I:277:HIS:HD2	1.63	0.80
1:F:518:LEU:HD21	1:F:522:TRP:HB2	1.61	0.80
1:5:458:TYR:HE1	1:8:183:ILE:CD1	1.91	0.80
1:H:458:TYR:HE1	1:Z:183:ILE:CD1	1.90	0.80
1:L:333:GLU:OE1	1:L:333:GLU:N	2.15	0.80
1:t:518:LEU:HD21	1:t:522:TRP:HB2	1.61	0.80
1:I:333:GLU:OE1	1:I:333:GLU:N	2.15	0.80
1:z:333:GLU:OE1	1:z:333:GLU:N	2.15	0.80
1:B:333:GLU:N	1:B:333:GLU:OE1	2.15	0.80
1:G:518:LEU:HD21	1:G:522:TRP:HB2	1.61	0.80
1:X:333:GLU:OE1	1:X:333:GLU:N	2.15	0.80
1:m:333:GLU:OE1	1:m:333:GLU:N	2.15	0.80
1:o:333:GLU:OE1	1:o:333:GLU:N	2.15	0.80
1:u:333:GLU:OE1	1:u:333:GLU:N	2.15	0.80
1:1:333:GLU:N	1:1:333:GLU:OE1	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:333:GLU:OE1	1:T:333:GLU:N	2.15	0.80
1:y:333:GLU:N	1:y:333:GLU:OE1	2.15	0.80
1:3:333:GLU:OE1	1:3:333:GLU:N	2.15	0.80
1:F:333:GLU:N	1:F:333:GLU:OE1	2.15	0.80
1:a:333:GLU:OE1	1:a:333:GLU:N	2.15	0.80
1:5:518:LEU:HD21	1:5:522:TRP:HB2	1.61	0.80
1:H:518:LEU:HD21	1:H:522:TRP:HB2	1.61	0.80
1:T:518:LEU:HD21	1:T:522:TRP:HB2	1.61	0.80
1:A:326:ARG:CZ	1:A:328:GLU:OE2	2.31	0.79
1:N:183:ILE:CD1	1:m:458:TYR:HE1	1.90	0.79
1:T:458:TYR:HE1	1:i:183:ILE:CD1	1.90	0.79
1:Y:518:LEU:HD21	1:Y:522:TRP:HB2	1.61	0.79
1:Z:326:ARG:CZ	1:Z:328:GLU:OE2	2.31	0.79
1:r:326:ARG:CZ	1:r:328:GLU:OE2	2.31	0.79
1:7:518:LEU:HD21	1:7:522:TRP:HB2	1.61	0.79
1:8:326:ARG:CZ	1:8:328:GLU:OE2	2.31	0.79
1:d:326:ARG:CZ	1:d:328:GLU:OE2	2.31	0.79
1:v:326:ARG:CZ	1:v:328:GLU:OE2	2.31	0.79
1:4:326:ARG:CZ	1:4:328:GLU:OE2	2.31	0.79
1:C:326:ARG:CZ	1:C:328:GLU:OE2	2.31	0.79
1:H:326:ARG:CZ	1:H:328:GLU:OE2	2.31	0.79
1:K:326:ARG:CZ	1:K:328:GLU:OE2	2.31	0.79
1:P:105:PHE:O	1:P:410:TYR:OH	2.01	0.79
1:Q:326:ARG:CZ	1:Q:328:GLU:OE2	2.31	0.79
1:V:333:GLU:N	1:V:333:GLU:OE1	2.15	0.79
1:Y:326:ARG:CZ	1:Y:328:GLU:OE2	2.31	0.79
1:g:326:ARG:CZ	1:g:328:GLU:OE2	2.31	0.79
1:h:105:PHE:O	1:h:410:TYR:OH	2.01	0.79
1:j:105:PHE:O	1:j:410:TYR:OH	2.01	0.79
1:m:518:LEU:HD21	1:m:522:TRP:HB2	1.61	0.79
1:n:326:ARG:CZ	1:n:328:GLU:OE2	2.31	0.79
1:p:333:GLU:N	1:p:333:GLU:OE1	2.15	0.79
1:x:326:ARG:CZ	1:x:328:GLU:OE2	2.31	0.79
1:5:326:ARG:CZ	1:5:328:GLU:OE2	2.31	0.79
1:7:326:ARG:CZ	1:7:328:GLU:OE2	2.31	0.79
1:E:326:ARG:CZ	1:E:328:GLU:OE2	2.31	0.79
1:F:326:ARG:CZ	1:F:328:GLU:OE2	2.30	0.79
1:M:105:PHE:O	1:M:410:TYR:OH	2.01	0.79
1:X:183:ILE:CD1	1:Y:458:TYR:HE1	1.90	0.79
1:w:326:ARG:CZ	1:w:328:GLU:OE2	2.31	0.79
1:y:326:ARG:CZ	1:y:328:GLU:OE2	2.31	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:326:ARG:CZ	1:6:328:GLU:OE2	2.31	0.79
1:Q:105:PHE:O	1:Q:410:TYR:OH	2.01	0.79
1:T:105:PHE:O	1:T:410:TYR:OH	2.01	0.79
1:V:326:ARG:CZ	1:V:328:GLU:OE2	2.31	0.79
1:W:326:ARG:CZ	1:W:328:GLU:OE2	2.31	0.79
1:t:105:PHE:O	1:t:410:TYR:OH	2.01	0.79
1:x:105:PHE:O	1:x:410:TYR:OH	2.01	0.79
1:D:326:ARG:CZ	1:D:328:GLU:OE2	2.31	0.79
1:G:105:PHE:O	1:G:410:TYR:OH	2.01	0.79
1:I:326:ARG:CZ	1:I:328:GLU:OE2	2.31	0.79
1:U:326:ARG:CZ	1:U:328:GLU:OE2	2.31	0.79
1:a:326:ARG:CZ	1:a:328:GLU:OE2	2.30	0.79
1:b:333:GLU:OE1	1:b:333:GLU:N	2.15	0.79
1:c:326:ARG:CZ	1:c:328:GLU:OE2	2.31	0.79
1:d:333:GLU:OE1	1:d:333:GLU:N	2.15	0.79
1:k:326:ARG:CZ	1:k:328:GLU:OE2	2.31	0.79
1:m:105:PHE:O	1:m:410:TYR:OH	2.01	0.79
1:p:326:ARG:CZ	1:p:328:GLU:OE2	2.31	0.79
1:u:326:ARG:CZ	1:u:328:GLU:OE2	2.31	0.79
1:T:326:ARG:CZ	1:T:328:GLU:OE2	2.31	0.79
1:U:333:GLU:OE1	1:U:333:GLU:N	2.15	0.79
1:Y:105:PHE:O	1:Y:410:TYR:OH	2.01	0.79
1:e:326:ARG:CZ	1:e:328:GLU:OE2	2.31	0.79
1:m:326:ARG:CZ	1:m:328:GLU:OE2	2.31	0.79
1:n:458:TYR:HE1	1:r:183:ILE:CD1	1.90	0.79
1:s:326:ARG:CZ	1:s:328:GLU:OE2	2.31	0.79
1:s:333:GLU:OE1	1:s:333:GLU:N	2.15	0.79
1:7:105:PHE:O	1:7:410:TYR:OH	2.01	0.79
1:P:333:GLU:OE1	1:P:333:GLU:N	2.15	0.79
1:S:326:ARG:CZ	1:S:328:GLU:OE2	2.31	0.79
1:f:333:GLU:OE1	1:f:333:GLU:N	2.15	0.79
1:i:326:ARG:CZ	1:i:328:GLU:OE2	2.31	0.79
1:j:333:GLU:OE1	1:j:333:GLU:N	2.15	0.79
1:n:333:GLU:OE1	1:n:333:GLU:N	2.15	0.79
1:q:326:ARG:CZ	1:q:328:GLU:OE2	2.31	0.79
1:3:326:ARG:CZ	1:3:328:GLU:OE2	2.31	0.79
1:M:326:ARG:CZ	1:M:328:GLU:OE2	2.31	0.79
1:O:326:ARG:CZ	1:O:328:GLU:OE2	2.31	0.79
1:R:326:ARG:CZ	1:R:328:GLU:OE2	2.31	0.79
1:h:326:ARG:CZ	1:h:328:GLU:OE2	2.31	0.79
1:l:326:ARG:CZ	1:l:328:GLU:OE2	2.31	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:333:GLU:OE1	1:5:333:GLU:N	2.15	0.79
1:H:105:PHE:O	1:H:410:TYR:OH	2.01	0.79
1:N:326:ARG:CZ	1:N:328:GLU:OE2	2.31	0.79
1:S:183:ILE:CD1	1:d:458:TYR:HE1	1.90	0.79
1:5:105:PHE:O	1:5:410:TYR:OH	2.01	0.79
1:8:333:GLU:OE1	1:8:333:GLU:N	2.15	0.79
1:H:333:GLU:OE1	1:H:333:GLU:N	2.15	0.78
1:Z:333:GLU:OE1	1:Z:333:GLU:N	2.15	0.78
1:w:333:GLU:OE1	1:w:333:GLU:N	2.15	0.78
1:4:333:GLU:OE1	1:4:333:GLU:N	2.15	0.78
1:J:333:GLU:OE1	1:J:333:GLU:N	2.15	0.78
1:O:105:PHE:O	1:O:410:TYR:OH	2.01	0.78
1:t:326:ARG:CZ	1:t:328:GLU:OE2	2.31	0.78
1:E:333:GLU:OE1	1:E:333:GLU:N	2.15	0.78
1:J:326:ARG:CZ	1:J:328:GLU:OE2	2.31	0.78
1:l:105:PHE:O	1:l:410:TYR:OH	2.01	0.78
1:o:326:ARG:CZ	1:o:328:GLU:OE2	2.31	0.78
1:2:333:GLU:OE1	1:2:333:GLU:N	2.15	0.78
1:G:326:ARG:CZ	1:G:328:GLU:OE2	2.31	0.78
1:K:333:GLU:OE1	1:K:333:GLU:N	2.15	0.78
1:P:326:ARG:CZ	1:P:328:GLU:OE2	2.31	0.78
1:X:326:ARG:CZ	1:X:328:GLU:OE2	2.31	0.78
1:i:333:GLU:OE1	1:i:333:GLU:N	2.15	0.78
1:N:333:GLU:OE1	1:N:333:GLU:N	2.15	0.78
1:S:105:PHE:O	1:S:410:TYR:OH	2.01	0.78
1:W:105:PHE:O	1:W:410:TYR:OH	2.01	0.78
1:f:326:ARG:CZ	1:f:328:GLU:OE2	2.31	0.78
1:q:105:PHE:O	1:q:410:TYR:OH	2.01	0.78
1:1:326:ARG:CZ	1:1:328:GLU:OE2	2.31	0.78
1:2:326:ARG:CZ	1:2:328:GLU:OE2	2.31	0.78
1:K:458:TYR:HE1	1:7:183:ILE:CD1	1.90	0.78
1:R:105:PHE:O	1:R:410:TYR:OH	2.01	0.78
1:j:326:ARG:CZ	1:j:328:GLU:OE2	2.31	0.78
1:B:326:ARG:CZ	1:B:328:GLU:OE2	2.30	0.78
1:C:105:PHE:O	1:C:410:TYR:OH	2.01	0.78
1:Q:333:GLU:OE1	1:Q:333:GLU:N	2.15	0.78
1:Z:105:PHE:O	1:Z:410:TYR:OH	2.01	0.78
1:r:105:PHE:O	1:r:410:TYR:OH	2.01	0.78
1:6:105:PHE:O	1:6:410:TYR:OH	2.01	0.78
1:I:105:PHE:O	1:I:410:TYR:OH	2.01	0.78
1:J:105:PHE:O	1:J:410:TYR:OH	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:326:ARG:CZ	1:b:328:GLU:OE2	2.31	0.78
1:x:333:GLU:OE1	1:x:333:GLU:N	2.15	0.78
1:4:105:PHE:O	1:4:410:TYR:OH	2.01	0.78
1:K:105:PHE:O	1:K:410:TYR:OH	2.01	0.77
1:Y:183:ILE:CD1	1:4:458:TYR:HE1	1.90	0.77
1:b:105:PHE:O	1:b:410:TYR:OH	2.01	0.77
1:8:105:PHE:O	1:8:410:TYR:OH	2.01	0.77
1:D:333:GLU:OE1	1:D:333:GLU:N	2.15	0.77
1:g:105:PHE:O	1:g:410:TYR:OH	2.01	0.77
1:u:105:PHE:O	1:u:410:TYR:OH	2.01	0.77
1:E:105:PHE:O	1:E:410:TYR:OH	2.01	0.77
1:L:105:PHE:O	1:L:410:TYR:OH	2.01	0.77
1:L:326:ARG:CZ	1:L:328:GLU:OE2	2.31	0.77
1:M:333:GLU:OE1	1:M:333:GLU:N	2.15	0.77
1:e:105:PHE:O	1:e:410:TYR:OH	2.01	0.77
1:h:333:GLU:OE1	1:h:333:GLU:N	2.15	0.77
1:7:333:GLU:OE1	1:7:333:GLU:N	2.15	0.77
1:W:333:GLU:OE1	1:W:333:GLU:N	2.15	0.77
1:f:105:PHE:O	1:f:410:TYR:OH	2.01	0.77
1:k:333:GLU:N	1:k:333:GLU:OE1	2.15	0.77
1:o:105:PHE:O	1:o:410:TYR:OH	2.01	0.77
1:1:105:PHE:O	1:1:410:TYR:OH	2.01	0.77
1:N:105:PHE:O	1:N:410:TYR:OH	2.01	0.77
1:Y:333:GLU:N	1:Y:333:GLU:OE1	2.15	0.77
1:l:333:GLU:OE1	1:l:333:GLU:N	2.15	0.77
1:w:105:PHE:O	1:w:410:TYR:OH	2.01	0.77
1:z:105:PHE:O	1:z:410:TYR:OH	2.01	0.77
1:z:326:ARG:CZ	1:z:328:GLU:OE2	2.31	0.77
1:6:333:GLU:OE1	1:6:333:GLU:N	2.15	0.77
1:B:105:PHE:O	1:B:410:TYR:OH	2.01	0.77
1:O:333:GLU:OE1	1:O:333:GLU:N	2.15	0.77
1:X:105:PHE:O	1:X:410:TYR:OH	2.01	0.77
1:c:105:PHE:O	1:c:410:TYR:OH	2.01	0.77
1:i:105:PHE:O	1:i:410:TYR:OH	2.01	0.77
1:G:333:GLU:OE1	1:G:333:GLU:N	2.15	0.77
1:F:105:PHE:O	1:F:410:TYR:OH	2.01	0.77
1:y:105:PHE:O	1:y:410:TYR:OH	2.01	0.77
1:A:119:LYS:CE	1:A:476:GLU:HG3	2.15	0.77
1:b:119:LYS:CE	1:b:476:GLU:HG3	2.15	0.77
1:f:119:LYS:CE	1:f:476:GLU:HG3	2.15	0.77
1:p:119:LYS:CE	1:p:476:GLU:HG3	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:105:PHE:O	1:v:410:TYR:OH	2.01	0.77
1:v:119:LYS:CE	1:v:476:GLU:HG3	2.15	0.77
1:y:119:LYS:CE	1:y:476:GLU:HG3	2.15	0.77
1:A:105:PHE:O	1:A:410:TYR:OH	2.01	0.77
1:F:119:LYS:CE	1:F:476:GLU:HG3	2.15	0.77
1:P:119:LYS:CE	1:P:476:GLU:HG3	2.15	0.77
1:V:119:LYS:CE	1:V:476:GLU:HG3	2.15	0.77
1:j:119:LYS:CE	1:j:476:GLU:HG3	2.15	0.77
1:t:333:GLU:OE1	1:t:333:GLU:N	2.15	0.77
1:2:105:PHE:O	1:2:410:TYR:OH	2.01	0.77
1:A:333:GLU:OE1	1:A:333:GLU:N	2.15	0.76
1:O:119:LYS:CE	1:O:476:GLU:HG3	2.15	0.76
1:W:119:LYS:CE	1:W:476:GLU:HG3	2.15	0.76
1:l:119:LYS:CE	1:l:476:GLU:HG3	2.15	0.76
1:o:183:ILE:CD1	1:7:458:TYR:HE1	1.90	0.76
1:v:333:GLU:OE1	1:v:333:GLU:N	2.15	0.76
1:E:119:LYS:CE	1:E:476:GLU:HG3	2.15	0.76
1:q:333:GLU:OE1	1:q:333:GLU:N	2.15	0.76
1:6:119:LYS:CE	1:6:476:GLU:HG3	2.15	0.76
1:B:484:ASN:HD22	1:I:502:MET:HE2	1.51	0.76
1:M:119:LYS:CE	1:M:476:GLU:HG3	2.15	0.76
1:N:119:LYS:CE	1:N:476:GLU:HG3	2.15	0.76
1:V:105:PHE:O	1:V:410:TYR:OH	2.01	0.76
1:i:119:LYS:CE	1:i:476:GLU:HG3	2.15	0.76
1:u:502:MET:HE2	1:1:484:ASN:HD22	1.51	0.76
1:D:119:LYS:CE	1:D:476:GLU:HG3	2.15	0.76
1:H:119:LYS:CE	1:H:476:GLU:HG3	2.15	0.76
1:S:119:LYS:CE	1:S:476:GLU:HG3	2.15	0.76
1:n:119:LYS:CE	1:n:476:GLU:HG3	2.15	0.76
1:p:105:PHE:O	1:p:410:TYR:OH	2.01	0.76
1:s:119:LYS:CE	1:s:476:GLU:HG3	2.15	0.76
1:w:119:LYS:CE	1:w:476:GLU:HG3	2.15	0.76
1:5:119:LYS:CE	1:5:476:GLU:HG3	2.15	0.76
1:G:119:LYS:CE	1:G:476:GLU:HG3	2.15	0.76
1:G:306:MET:HE3	1:G:307:PRO:HD2	1.68	0.76
1:R:333:GLU:OE1	1:R:333:GLU:N	2.15	0.76
1:S:333:GLU:OE1	1:S:333:GLU:N	2.15	0.76
1:U:119:LYS:CE	1:U:476:GLU:HG3	2.15	0.76
1:d:119:LYS:CE	1:d:476:GLU:HG3	2.15	0.76
1:h:119:LYS:CE	1:h:476:GLU:HG3	2.15	0.76
1:k:119:LYS:CE	1:k:476:GLU:HG3	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:119:LYS:CE	1:r:476:GLU:HG3	2.15	0.76
1:t:119:LYS:CE	1:t:476:GLU:HG3	2.15	0.76
1:t:306:MET:HE3	1:t:307:PRO:HD2	1.68	0.76
1:u:119:LYS:CE	1:u:476:GLU:HG3	2.15	0.76
1:I:119:LYS:CE	1:I:476:GLU:HG3	2.15	0.76
1:K:119:LYS:CE	1:K:476:GLU:HG3	2.15	0.76
1:Q:119:LYS:CE	1:Q:476:GLU:HG3	2.15	0.76
1:Q:306:MET:HE3	1:Q:307:PRO:HD2	1.68	0.76
1:X:119:LYS:CE	1:X:476:GLU:HG3	2.15	0.76
1:i:306:MET:HE3	1:i:307:PRO:HD2	1.68	0.76
1:x:306:MET:HE3	1:x:307:PRO:HD2	1.68	0.76
1:4:119:LYS:CE	1:4:476:GLU:HG3	2.15	0.76
1:7:119:LYS:CE	1:7:476:GLU:HG3	2.15	0.76
1:N:306:MET:HE3	1:N:307:PRO:HD2	1.68	0.76
1:Y:119:LYS:CE	1:Y:476:GLU:HG3	2.15	0.76
1:d:105:PHE:O	1:d:410:TYR:OH	2.01	0.76
1:e:306:MET:HE3	1:e:307:PRO:HD2	1.68	0.76
1:u:306:MET:HE3	1:u:307:PRO:HD2	1.68	0.76
1:I:306:MET:HE3	1:I:307:PRO:HD2	1.68	0.76
1:J:119:LYS:CE	1:J:476:GLU:HG3	2.15	0.76
1:L:119:LYS:CE	1:L:476:GLU:HG3	2.15	0.76
1:Q:484:ASN:HD22	1:R:502:MET:HE2	1.51	0.76
1:a:119:LYS:CE	1:a:476:GLU:HG3	2.15	0.76
1:c:306:MET:HE3	1:c:307:PRO:HD2	1.68	0.76
1:e:333:GLU:OE1	1:e:333:GLU:N	2.15	0.76
1:f:306:MET:HE3	1:f:307:PRO:HD2	1.68	0.76
1:o:119:LYS:CE	1:o:476:GLU:HG3	2.15	0.76
1:q:306:MET:HE3	1:q:307:PRO:HD2	1.68	0.76
1:q:502:MET:HE2	1:x:484:ASN:HD22	1.51	0.76
1:x:119:LYS:CE	1:x:476:GLU:HG3	2.15	0.76
1:2:119:LYS:CE	1:2:476:GLU:HG3	2.15	0.76
1:3:119:LYS:CE	1:3:476:GLU:HG3	2.15	0.76
1:A:306:MET:HE3	1:A:307:PRO:HD2	1.68	0.76
1:B:119:LYS:CE	1:B:476:GLU:HG3	2.15	0.76
1:B:502:MET:HE2	1:I:484:ASN:HD22	1.51	0.76
1:C:333:GLU:OE1	1:C:333:GLU:N	2.15	0.76
1:D:502:MET:HE2	1:M:484:ASN:HD22	1.51	0.76
1:R:306:MET:HE3	1:R:307:PRO:HD2	1.68	0.76
1:W:484:ASN:HD22	1:X:502:MET:HE2	1.51	0.76
1:W:502:MET:HE2	1:X:484:ASN:HD22	1.51	0.76
1:Z:306:MET:HE3	1:Z:307:PRO:HD2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:306:MET:HE3	1:b:307:PRO:HD2	1.68	0.76
1:g:333:GLU:OE1	1:g:333:GLU:N	2.15	0.76
1:m:119:LYS:CE	1:m:476:GLU:HG3	2.15	0.76
1:o:484:ASN:HD22	1:6:502:MET:HE2	1.51	0.76
1:r:333:GLU:N	1:r:333:GLU:OE1	2.15	0.76
1:u:484:ASN:HD22	1:1:502:MET:HE2	1.51	0.76
1:v:183:ILE:CD1	1:w:458:TYR:HE1	1.90	0.76
1:z:119:LYS:CE	1:z:476:GLU:HG3	2.15	0.76
1:3:105:PHE:O	1:3:410:TYR:OH	2.01	0.76
1:5:306:MET:HE3	1:5:307:PRO:HD2	1.68	0.76
1:L:306:MET:HE3	1:L:307:PRO:HD2	1.68	0.76
1:P:183:ILE:CD1	1:Q:458:TYR:HE1	1.90	0.76
1:c:119:LYS:CE	1:c:476:GLU:HG3	2.15	0.76
1:i:502:MET:HE2	1:l:484:ASN:HD22	1.51	0.76
1:j:183:ILE:CD1	1:x:458:TYR:HE1	1.90	0.76
1:n:105:PHE:O	1:n:410:TYR:OH	2.01	0.76
1:o:502:MET:HE2	1:6:484:ASN:HD22	1.51	0.76
1:v:306:MET:HE3	1:v:307:PRO:HD2	1.68	0.76
1:1:119:LYS:CE	1:1:476:GLU:HG3	2.15	0.76
1:8:306:MET:HE3	1:8:307:PRO:HD2	1.68	0.76
1:A:183:ILE:CD1	1:E:458:TYR:HE1	1.90	0.75
1:C:306:MET:HE3	1:C:307:PRO:HD2	1.68	0.75
1:E:502:MET:HE2	1:P:484:ASN:HD22	1.51	0.75
1:H:306:MET:HE3	1:H:307:PRO:HD2	1.68	0.75
1:N:502:MET:HE2	1:O:484:ASN:HD22	1.51	0.75
1:T:119:LYS:CE	1:T:476:GLU:HG3	2.15	0.75
1:U:306:MET:HE3	1:U:307:PRO:HD2	1.68	0.75
1:a:105:PHE:O	1:a:410:TYR:OH	2.01	0.75
1:c:333:GLU:OE1	1:c:333:GLU:N	2.15	0.75
1:h:484:ASN:HD22	1:k:502:MET:HE2	1.51	0.75
1:s:105:PHE:O	1:s:410:TYR:OH	2.01	0.75
1:z:306:MET:HE3	1:z:307:PRO:HD2	1.68	0.75
1:F:306:MET:HE3	1:F:307:PRO:HD2	1.68	0.75
1:J:484:ASN:HD22	1:K:502:MET:HE2	1.51	0.75
1:U:105:PHE:O	1:U:410:TYR:OH	2.01	0.75
1:a:502:MET:HE2	1:3:484:ASN:HD22	1.51	0.75
1:b:502:MET:HE2	1:c:484:ASN:HD22	1.51	0.75
1:d:306:MET:HE3	1:d:307:PRO:HD2	1.68	0.75
1:e:119:LYS:CE	1:e:476:GLU:HG3	2.15	0.75
1:g:306:MET:HE3	1:g:307:PRO:HD2	1.68	0.75
1:j:484:ASN:HD22	1:w:502:MET:HE2	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:306:MET:HE3	1:s:307:PRO:HD2	1.68	0.75
1:2:484:ASN:HD22	1:4:502:MET:HE2	1.51	0.75
1:M:306:MET:HE3	1:M:307:PRO:HD2	1.68	0.75
1:Z:119:LYS:CE	1:Z:476:GLU:HG3	2.15	0.75
1:j:306:MET:HE3	1:j:307:PRO:HD2	1.68	0.75
1:k:105:PHE:O	1:k:410:TYR:OH	2.01	0.75
1:n:306:MET:HE3	1:n:307:PRO:HD2	1.68	0.75
1:y:306:MET:HE3	1:y:307:PRO:HD2	1.68	0.75
1:G:484:ASN:HD22	1:H:502:MET:HE2	1.51	0.75
1:R:119:LYS:CE	1:R:476:GLU:HG3	2.15	0.75
1:T:306:MET:HE3	1:T:307:PRO:HD2	1.68	0.75
1:U:502:MET:HE2	1:V:484:ASN:HD22	1.51	0.75
1:X:306:MET:HE3	1:X:307:PRO:HD2	1.68	0.75
1:a:484:ASN:HD22	1:3:502:MET:HE2	1.51	0.75
1:e:484:ASN:HD22	1:f:502:MET:HE2	1.51	0.75
1:h:306:MET:HE3	1:h:307:PRO:HD2	1.68	0.75
1:m:502:MET:HE2	1:r:484:ASN:HD22	1.51	0.75
1:p:484:ASN:HD22	1:s:502:MET:HE2	1.51	0.75
1:C:119:LYS:CE	1:C:476:GLU:HG3	2.15	0.75
1:D:105:PHE:O	1:D:410:TYR:OH	2.01	0.75
1:m:306:MET:HE3	1:m:307:PRO:HD2	1.68	0.75
1:q:119:LYS:CE	1:q:476:GLU:HG3	2.15	0.75
1:q:484:ASN:HD22	1:x:502:MET:HE2	1.51	0.75
1:Q:502:MET:HE2	1:R:484:ASN:HD22	1.51	0.75
1:g:119:LYS:CE	1:g:476:GLU:HG3	2.15	0.75
1:o:306:MET:HE3	1:o:307:PRO:HD2	1.68	0.75
1:8:119:LYS:CE	1:8:476:GLU:HG3	2.15	0.75
1:A:502:MET:HE2	1:F:484:ASN:HD22	1.51	0.75
1:G:279:SER:OG	1:I:314:SER:HB3	1.87	0.75
1:P:306:MET:HE3	1:P:307:PRO:HD2	1.68	0.75
1:S:484:ASN:HD22	1:T:502:MET:HE2	1.51	0.75
1:v:484:ASN:HD22	1:y:502:MET:HE2	1.51	0.75
1:C:502:MET:HE2	1:L:484:ASN:HD22	1.51	0.75
1:N:484:ASN:HD22	1:O:502:MET:HE2	1.52	0.75
1:O:306:MET:HE3	1:O:307:PRO:HD2	1.68	0.75
1:S:502:MET:HE2	1:T:484:ASN:HD22	1.51	0.75
1:m:484:ASN:HD22	1:r:502:MET:HE2	1.51	0.75
1:p:502:MET:HE2	1:s:484:ASN:HD22	1.51	0.75
1:u:279:SER:OG	1:v:314:SER:HB3	1.87	0.75
1:B:279:SER:OG	1:J:314:SER:HB3	1.87	0.75
1:F:314:SER:HB3	1:Q:279:SER:OG	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:484:ASN:HD22	1:c:502:MET:HE2	1.51	0.75
1:e:502:MET:HE2	1:f:484:ASN:HD22	1.51	0.75
1:x:279:SER:OG	1:y:314:SER:HB3	1.87	0.75
1:1:279:SER:OG	1:2:314:SER:HB3	1.87	0.75
1:g:502:MET:HE2	1:z:484:ASN:HD22	1.51	0.74
1:i:484:ASN:HD22	1:l:502:MET:HE2	1.52	0.74
1:l:306:MET:HE3	1:l:307:PRO:HD2	1.68	0.74
1:1:306:MET:HE3	1:1:307:PRO:HD2	1.68	0.74
1:E:306:MET:HE3	1:E:307:PRO:HD2	1.68	0.74
1:U:484:ASN:HD22	1:V:502:MET:HE2	1.51	0.74
1:f:279:SER:OG	1:h:314:SER:HB3	1.87	0.74
1:w:306:MET:HE3	1:w:307:PRO:HD2	1.68	0.74
1:7:484:ASN:HD22	1:8:502:MET:HE2	1.52	0.74
1:H:279:SER:OG	1:W:314:SER:HB3	1.87	0.74
1:M:314:SER:HB3	1:b:279:SER:OG	1.87	0.74
1:Y:484:ASN:HD22	1:Z:502:MET:HE2	1.52	0.74
1:c:279:SER:OG	1:o:314:SER:HB3	1.87	0.74
1:5:279:SER:OG	1:6:314:SER:HB3	1.87	0.74
1:7:306:MET:HE3	1:7:307:PRO:HD2	1.68	0.74
1:B:306:MET:HE3	1:B:307:PRO:HD2	1.68	0.74
1:W:279:SER:OG	1:Y:314:SER:HB3	1.87	0.74
1:X:314:SER:HB3	1:e:279:SER:OG	1.87	0.74
1:a:306:MET:HE3	1:a:307:PRO:HD2	1.68	0.74
1:q:279:SER:OG	1:r:314:SER:HB3	1.87	0.74
1:3:306:MET:HE3	1:3:307:PRO:HD2	1.68	0.74
1:6:279:SER:OG	1:7:314:SER:HB3	1.87	0.74
1:J:306:MET:HE3	1:J:307:PRO:HD2	1.68	0.74
1:R:279:SER:OG	1:S:314:SER:HB3	1.87	0.74
1:Z:314:SER:HB3	1:3:279:SER:OG	1.87	0.74
1:a:279:SER:OG	1:8:314:SER:HB3	1.88	0.74
1:t:279:SER:OG	1:u:314:SER:HB3	1.88	0.74
1:v:502:MET:HE2	1:y:484:ASN:HD22	1.51	0.74
1:z:279:SER:OG	1:1:314:SER:HB3	1.87	0.74
1:J:502:MET:HE2	1:K:484:ASN:HD22	1.51	0.74
1:V:279:SER:OG	1:e:314:SER:HB3	1.87	0.74
1:Y:306:MET:HE3	1:Y:307:PRO:HD2	1.68	0.74
1:d:484:ASN:HD22	1:n:502:MET:HE2	1.51	0.74
1:d:502:MET:HE2	1:n:484:ASN:HD22	1.51	0.74
1:m:279:SER:OG	1:n:314:SER:HB3	1.87	0.74
1:B:314:SER:HB3	1:L:279:SER:OG	1.87	0.74
1:D:314:SER:HB3	1:P:279:SER:OG	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:279:SER:OG	1:a:314:SER:HB3	1.87	0.74
1:N:279:SER:OG	1:P:314:SER:HB3	1.87	0.74
1:R:314:SER:HB3	1:U:279:SER:OG	1.87	0.74
1:V:314:SER:HB3	1:X:279:SER:OG	1.87	0.74
1:W:306:MET:HE3	1:W:307:PRO:HD2	1.68	0.74
1:o:279:SER:OG	1:p:314:SER:HB3	1.87	0.74
1:t:502:MET:HE2	1:5:484:ASN:HD22	1.51	0.74
1:2:502:MET:HE2	1:4:484:ASN:HD22	1.51	0.74
1:G:502:MET:HE2	1:H:484:ASN:HD22	1.51	0.74
1:T:279:SER:OG	1:d:314:SER:HB3	1.87	0.74
1:c:314:SER:HB3	1:p:279:SER:OG	1.87	0.74
1:i:279:SER:OG	1:j:314:SER:HB3	1.87	0.74
1:j:279:SER:OG	1:k:314:SER:HB3	1.87	0.74
1:p:306:MET:HE3	1:p:307:PRO:HD2	1.68	0.74
1:2:306:MET:HE3	1:2:307:PRO:HD2	1.68	0.74
1:3:314:SER:HB3	1:4:279:SER:OG	1.87	0.74
1:A:279:SER:OG	1:G:314:SER:HB3	1.88	0.74
1:T:314:SER:HB3	1:l:279:SER:OG	1.87	0.74
1:V:306:MET:HE3	1:V:307:PRO:HD2	1.68	0.74
1:j:502:MET:HE2	1:w:484:ASN:HD22	1.51	0.74
1:q:314:SER:HB3	1:s:279:SER:OG	1.87	0.74
1:E:314:SER:HB3	1:F:279:SER:OG	1.87	0.74
1:r:306:MET:HE3	1:r:307:PRO:HD2	1.68	0.74
1:6:306:MET:HE3	1:6:307:PRO:HD2	1.68	0.74
1:A:314:SER:HB2	1:I:254:PHE:CE1	2.23	0.73
1:A:484:ASN:HD22	1:F:502:MET:HE2	1.53	0.73
1:E:484:ASN:HD22	1:P:502:MET:HE2	1.51	0.73
1:f:314:SER:HB3	1:g:279:SER:OG	1.87	0.73
1:E:279:SER:OG	1:Q:314:SER:HB3	1.87	0.73
1:O:279:SER:OG	1:m:314:SER:HB3	1.87	0.73
1:S:306:MET:HE3	1:S:307:PRO:HD2	1.68	0.73
1:h:502:MET:HE2	1:k:484:ASN:HD22	1.51	0.73
1:r:279:SER:OG	1:s:314:SER:HB3	1.87	0.73
1:w:314:SER:HB3	1:y:279:SER:OG	1.87	0.73
1:C:279:SER:OG	1:b:314:SER:HB3	1.87	0.73
1:Y:502:MET:HE2	1:Z:484:ASN:HD22	1.51	0.73
1:Z:203:ASP:CG	1:Z:204:ILE:H	1.97	0.73
1:t:484:ASN:HD22	1:5:502:MET:HE2	1.53	0.73
1:w:279:SER:OG	1:x:314:SER:HB3	1.87	0.73
1:A:203:ASP:CG	1:A:204:ILE:H	1.97	0.73
1:C:314:SER:HB3	1:M:279:SER:OG	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:484:ASN:HD22	1:M:502:MET:HE2	1.51	0.73
1:H:314:SER:HB3	1:Y:279:SER:OG	1.87	0.73
1:S:279:SER:OG	1:U:314:SER:HB3	1.87	0.73
1:Y:203:ASP:CG	1:Y:204:ILE:H	1.97	0.73
1:g:314:SER:HB3	1:h:279:SER:OG	1.87	0.73
1:k:306:MET:HE3	1:k:307:PRO:HD2	1.68	0.73
1:r:203:ASP:CG	1:r:204:ILE:H	1.97	0.73
1:v:203:ASP:CG	1:v:204:ILE:H	1.97	0.73
1:7:203:ASP:CG	1:7:204:ILE:H	1.97	0.73
1:8:203:ASP:CG	1:8:204:ILE:H	1.97	0.73
1:A:314:SER:HB3	1:I:279:SER:OG	1.89	0.73
1:J:279:SER:OG	1:L:314:SER:HB3	1.87	0.73
1:K:314:SER:HB3	1:8:279:SER:OG	1.87	0.73
1:S:203:ASP:CG	1:S:204:ILE:H	1.97	0.73
1:Z:174:THR:HB	1:Z:187:PRO:HG3	1.71	0.73
1:c:203:ASP:CG	1:c:204:ILE:H	1.97	0.73
1:d:279:SER:OG	1:l:314:SER:HB3	1.87	0.73
1:e:203:ASP:CG	1:e:204:ILE:H	1.97	0.73
1:t:314:SER:HB3	1:v:279:SER:OG	1.89	0.73
1:4:306:MET:HE3	1:4:307:PRO:HD2	1.68	0.73
1:6:203:ASP:CG	1:6:204:ILE:H	1.97	0.73
1:D:203:ASP:CG	1:D:204:ILE:H	1.97	0.73
1:F:174:THR:HB	1:F:187:PRO:HG3	1.71	0.73
1:I:203:ASP:CG	1:I:204:ILE:H	1.97	0.73
1:K:203:ASP:CG	1:K:204:ILE:H	1.97	0.73
1:O:314:SER:HB3	1:n:279:SER:OG	1.87	0.73
1:T:203:ASP:CG	1:T:204:ILE:H	1.97	0.73
1:W:203:ASP:CG	1:W:204:ILE:H	1.97	0.73
1:Z:279:SER:OG	1:4:314:SER:HB3	1.87	0.73
1:k:203:ASP:CG	1:k:204:ILE:H	1.97	0.73
1:o:203:ASP:CG	1:o:204:ILE:H	1.97	0.73
1:u:203:ASP:CG	1:u:204:ILE:H	1.97	0.73
1:y:174:THR:HB	1:y:187:PRO:HG3	1.71	0.73
1:z:314:SER:HB3	1:2:279:SER:OG	1.87	0.73
1:4:203:ASP:CG	1:4:204:ILE:H	1.97	0.73
1:5:314:SER:HB3	1:7:279:SER:OG	1.87	0.73
1:7:502:MET:HE2	1:8:484:ASN:HD22	1.51	0.73
1:8:174:THR:HB	1:8:187:PRO:HG3	1.71	0.73
1:D:306:MET:HE3	1:D:307:PRO:HD2	1.68	0.73
1:H:174:THR:HB	1:H:187:PRO:HG3	1.71	0.73
1:K:306:MET:HE3	1:K:307:PRO:HD2	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:203:ASP:CG	1:X:204:ILE:H	1.97	0.73
1:i:314:SER:HB3	1:k:279:SER:OG	1.87	0.73
1:m:203:ASP:CG	1:m:204:ILE:H	1.97	0.73
1:5:174:THR:HB	1:5:187:PRO:HG3	1.71	0.73
1:A:64:ASP:O	1:B:181:ASN:ND2	2.22	0.73
1:C:174:THR:HB	1:C:187:PRO:HG3	1.71	0.73
1:C:240:ASP:OD2	1:C:437:SER:HB3	1.89	0.73
1:H:240:ASP:OD2	1:H:437:SER:HB3	1.89	0.73
1:W:240:ASP:OD2	1:W:437:SER:HB3	1.89	0.73
1:g:240:ASP:OD2	1:g:437:SER:HB3	1.89	0.73
1:5:240:ASP:OD2	1:5:437:SER:HB3	1.89	0.73
1:6:240:ASP:OD2	1:6:437:SER:HB3	1.89	0.73
1:B:203:ASP:CG	1:B:204:ILE:H	1.97	0.73
1:D:279:SER:OG	1:N:314:SER:HB3	1.87	0.73
1:G:240:ASP:OD2	1:G:437:SER:HB3	1.89	0.73
1:M:240:ASP:OD2	1:M:437:SER:HB3	1.89	0.73
1:O:203:ASP:CG	1:O:204:ILE:H	1.97	0.73
1:X:240:ASP:OD2	1:X:437:SER:HB3	1.89	0.73
1:d:203:ASP:CG	1:d:204:ILE:H	1.97	0.73
1:g:174:THR:HB	1:g:187:PRO:HG3	1.71	0.73
1:h:240:ASP:OD2	1:h:437:SER:HB3	1.89	0.73
1:n:203:ASP:CG	1:n:204:ILE:H	1.97	0.73
1:o:240:ASP:OD2	1:o:437:SER:HB3	1.89	0.73
1:r:174:THR:HB	1:r:187:PRO:HG3	1.71	0.73
1:t:203:ASP:CG	1:t:204:ILE:H	1.97	0.73
1:C:484:ASN:HD22	1:L:502:MET:HE2	1.51	0.73
1:G:203:ASP:CG	1:G:204:ILE:H	1.97	0.73
1:U:240:ASP:OD2	1:U:437:SER:HB3	1.89	0.73
1:a:174:THR:HB	1:a:187:PRO:HG3	1.71	0.73
1:t:240:ASP:OD2	1:t:437:SER:HB3	1.89	0.73
1:1:203:ASP:CG	1:1:204:ILE:H	1.97	0.73
1:I:174:THR:HB	1:I:187:PRO:HG3	1.71	0.72
1:N:203:ASP:CG	1:N:204:ILE:H	1.97	0.72
1:S:174:THR:HB	1:S:187:PRO:HG3	1.71	0.72
1:V:240:ASP:OD2	1:V:437:SER:HB3	1.89	0.72
1:Z:240:ASP:OD2	1:Z:437:SER:HB3	1.89	0.72
1:a:240:ASP:OD2	1:a:437:SER:HB3	1.89	0.72
1:b:240:ASP:OD2	1:b:437:SER:HB3	1.89	0.72
1:f:240:ASP:OD2	1:f:437:SER:HB3	1.89	0.72
1:l:203:ASP:CG	1:l:204:ILE:H	1.97	0.72
1:p:240:ASP:OD2	1:p:437:SER:HB3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:240:ASP:OD2	1:s:437:SER:HB3	1.89	0.72
1:u:174:THR:HB	1:u:187:PRO:HG3	1.71	0.72
1:3:174:THR:HB	1:3:187:PRO:HG3	1.71	0.72
1:7:240:ASP:OD2	1:7:437:SER:HB3	1.89	0.72
1:E:240:ASP:OD2	1:E:437:SER:HB3	1.89	0.72
1:U:203:ASP:CG	1:U:204:ILE:H	1.97	0.72
1:V:254:PHE:CE1	1:e:314:SER:HB2	2.24	0.72
1:X:174:THR:HB	1:X:187:PRO:HG3	1.71	0.72
1:Y:240:ASP:OD2	1:Y:437:SER:HB3	1.89	0.72
1:Z:314:SER:HB2	1:3:254:PHE:CE1	2.24	0.72
1:a:254:PHE:CE1	1:8:314:SER:HB2	2.24	0.72
1:c:240:ASP:OD2	1:c:437:SER:HB3	1.89	0.72
1:d:240:ASP:OD2	1:d:437:SER:HB3	1.89	0.72
1:i:203:ASP:CG	1:i:204:ILE:H	1.97	0.72
1:i:314:SER:HB2	1:k:254:PHE:CE1	2.25	0.72
1:n:240:ASP:OD2	1:n:437:SER:HB3	1.89	0.72
1:o:174:THR:HB	1:o:187:PRO:HG3	1.71	0.72
1:q:240:ASP:OD2	1:q:437:SER:HB3	1.89	0.72
1:w:240:ASP:OD2	1:w:437:SER:HB3	1.89	0.72
1:3:203:ASP:CG	1:3:204:ILE:H	1.97	0.72
1:3:240:ASP:OD2	1:3:437:SER:HB3	1.89	0.72
1:4:240:ASP:OD2	1:4:437:SER:HB3	1.89	0.72
1:7:174:THR:HB	1:7:187:PRO:HG3	1.71	0.72
1:8:240:ASP:OD2	1:8:437:SER:HB3	1.89	0.72
1:A:174:THR:HB	1:A:187:PRO:HG3	1.71	0.72
1:D:254:PHE:CE1	1:N:314:SER:HB2	2.25	0.72
1:K:240:ASP:OD2	1:K:437:SER:HB3	1.89	0.72
1:R:240:ASP:OD2	1:R:437:SER:HB3	1.89	0.72
1:V:314:SER:HB2	1:X:254:PHE:CE1	2.25	0.72
1:Y:174:THR:HB	1:Y:187:PRO:HG3	1.71	0.72
1:a:203:ASP:CG	1:a:204:ILE:H	1.97	0.72
1:c:314:SER:HB2	1:p:254:PHE:CE1	2.24	0.72
1:e:240:ASP:OD2	1:e:437:SER:HB3	1.89	0.72
1:g:484:ASN:HD22	1:z:502:MET:HE2	1.51	0.72
1:k:174:THR:HB	1:k:187:PRO:HG3	1.71	0.72
1:o:254:PHE:CE1	1:p:314:SER:HB2	2.25	0.72
1:s:203:ASP:CG	1:s:204:ILE:H	1.97	0.72
1:t:174:THR:HB	1:t:187:PRO:HG3	1.71	0.72
1:D:174:THR:HB	1:D:187:PRO:HG3	1.71	0.72
1:D:314:SER:HB2	1:P:254:PHE:CE1	2.25	0.72
1:G:174:THR:HB	1:G:187:PRO:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:254:PHE:CE1	1:a:314:SER:HB2	2.24	0.72
1:N:240:ASP:OD2	1:N:437:SER:HB3	1.89	0.72
1:O:240:ASP:OD2	1:O:437:SER:HB3	1.89	0.72
1:P:203:ASP:CG	1:P:204:ILE:H	1.97	0.72
1:Q:240:ASP:OD2	1:Q:437:SER:HB3	1.89	0.72
1:i:240:ASP:OD2	1:i:437:SER:HB3	1.89	0.72
1:l:240:ASP:OD2	1:l:437:SER:HB3	1.89	0.72
1:v:174:THR:HB	1:v:187:PRO:HG3	1.71	0.72
1:C:254:PHE:CE1	1:b:314:SER:HB2	2.24	0.72
1:J:286:LEU:HD11	1:J:398:ILE:CD1	2.20	0.72
1:L:286:LEU:HD11	1:L:398:ILE:CD1	2.20	0.72
1:d:254:PHE:CE1	1:l:314:SER:HB2	2.24	0.72
1:f:314:SER:HB2	1:g:254:PHE:CE1	2.24	0.72
1:h:286:LEU:HD11	1:h:398:ILE:CD1	2.20	0.72
1:o:188:GLN:OE1	1:o:352:LYS:NZ	2.18	0.72
1:x:240:ASP:OD2	1:x:437:SER:HB3	1.89	0.72
1:z:254:PHE:CE1	1:1:314:SER:HB2	2.25	0.72
1:z:286:LEU:HD11	1:z:398:ILE:CD1	2.20	0.72
1:1:254:PHE:CE1	1:2:314:SER:HB2	2.25	0.72
1:2:203:ASP:CG	1:2:204:ILE:H	1.97	0.72
1:3:314:SER:HB2	1:4:254:PHE:CE1	2.24	0.72
1:B:240:ASP:OD2	1:B:437:SER:HB3	1.89	0.72
1:B:254:PHE:CE1	1:J:314:SER:HB2	2.25	0.72
1:E:203:ASP:CG	1:E:204:ILE:H	1.97	0.72
1:J:203:ASP:CG	1:J:204:ILE:H	1.97	0.72
1:M:286:LEU:HD11	1:M:398:ILE:CD1	2.20	0.72
1:N:254:PHE:CE1	1:P:314:SER:HB2	2.25	0.72
1:O:314:SER:HB2	1:n:254:PHE:CE1	2.24	0.72
1:R:314:SER:HB2	1:U:254:PHE:CE1	2.25	0.72
1:U:286:LEU:HD11	1:U:398:ILE:CD1	2.20	0.72
1:X:314:SER:HB2	1:e:254:PHE:CE1	2.25	0.72
1:a:286:LEU:HD11	1:a:398:ILE:CD1	2.20	0.72
1:c:254:PHE:CE1	1:o:314:SER:HB2	2.25	0.72
1:j:203:ASP:CG	1:j:204:ILE:H	1.97	0.72
1:j:254:PHE:CE1	1:k:314:SER:HB2	2.25	0.72
1:s:286:LEU:HD11	1:s:398:ILE:CD1	2.20	0.72
1:u:254:PHE:CE1	1:v:314:SER:HB2	2.25	0.72
1:v:240:ASP:OD2	1:v:437:SER:HB3	1.89	0.72
1:w:203:ASP:CG	1:w:204:ILE:H	1.97	0.72
1:2:286:LEU:HD11	1:2:398:ILE:CD1	2.20	0.72
1:3:286:LEU:HD11	1:3:398:ILE:CD1	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:SER:HB2	1:L:254:PHE:CE1	2.25	0.72
1:E:254:PHE:CE1	1:Q:314:SER:HB2	2.25	0.72
1:R:203:ASP:CG	1:R:204:ILE:H	1.97	0.72
1:W:254:PHE:CE1	1:Y:314:SER:HB2	2.25	0.72
1:X:286:LEU:HD11	1:X:398:ILE:CD1	2.20	0.72
1:d:525:LYS:NZ	1:l:422:ASP:OD2	2.23	0.72
1:i:254:PHE:CE1	1:j:314:SER:HB2	2.25	0.72
1:j:286:LEU:HD11	1:j:398:ILE:CD1	2.20	0.72
1:o:286:LEU:HD11	1:o:398:ILE:CD1	2.20	0.72
1:q:203:ASP:CG	1:q:204:ILE:H	1.97	0.72
1:q:314:SER:HB2	1:s:254:PHE:CE1	2.25	0.72
1:1:240:ASP:OD2	1:1:437:SER:HB3	1.89	0.72
1:4:174:THR:HB	1:4:187:PRO:HG3	1.71	0.72
1:A:240:ASP:OD2	1:A:437:SER:HB3	1.89	0.72
1:H:286:LEU:HD11	1:H:398:ILE:CD1	2.20	0.72
1:K:314:SER:HB2	1:8:254:PHE:CE1	2.25	0.72
1:L:203:ASP:CG	1:L:204:ILE:H	1.97	0.72
1:O:174:THR:HB	1:O:187:PRO:HG3	1.71	0.72
1:P:286:LEU:HD11	1:P:398:ILE:CD1	2.20	0.72
1:Q:203:ASP:CG	1:Q:204:ILE:H	1.97	0.72
1:T:254:PHE:CE1	1:d:314:SER:HB2	2.24	0.72
1:V:174:THR:HB	1:V:187:PRO:HG3	1.71	0.72
1:b:174:THR:HB	1:b:187:PRO:HG3	1.71	0.72
1:m:254:PHE:CE1	1:n:314:SER:HB2	2.24	0.72
1:z:203:ASP:CG	1:z:204:ILE:H	1.97	0.72
1:5:286:LEU:HD11	1:5:398:ILE:CD1	2.20	0.72
1:6:254:PHE:CE1	1:7:314:SER:HB2	2.25	0.72
1:K:174:THR:HB	1:K:187:PRO:HG3	1.71	0.72
1:T:101:MET:HB2	1:T:410:TYR:O	1.90	0.72
1:X:101:MET:HB2	1:X:410:TYR:O	1.90	0.72
1:Z:254:PHE:CE1	1:4:314:SER:HB2	2.25	0.72
1:b:286:LEU:HD11	1:b:398:ILE:CD1	2.20	0.72
1:f:174:THR:HB	1:f:187:PRO:HG3	1.71	0.72
1:f:203:ASP:CG	1:f:204:ILE:H	1.97	0.72
1:f:286:LEU:HD11	1:f:398:ILE:CD1	2.20	0.72
1:h:203:ASP:CG	1:h:204:ILE:H	1.97	0.72
1:o:101:MET:HB2	1:o:410:TYR:O	1.90	0.72
1:v:286:LEU:HD11	1:v:398:ILE:CD1	2.20	0.72
1:w:254:PHE:CE1	1:x:314:SER:HB2	2.25	0.72
1:x:174:THR:HB	1:x:187:PRO:HG3	1.71	0.72
1:x:203:ASP:CG	1:x:204:ILE:H	1.97	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:240:ASP:OD2	1:y:437:SER:HB3	1.89	0.72
1:2:174:THR:HB	1:2:187:PRO:HG3	1.71	0.72
1:F:203:ASP:CG	1:F:204:ILE:H	1.97	0.72
1:F:240:ASP:OD2	1:F:437:SER:HB3	1.89	0.72
1:G:286:LEU:HD11	1:G:398:ILE:CD1	2.20	0.72
1:J:174:THR:HB	1:J:187:PRO:HG3	1.71	0.72
1:L:101:MET:HB2	1:L:410:TYR:O	1.90	0.72
1:M:203:ASP:CG	1:M:204:ILE:H	1.97	0.72
1:Q:174:THR:HB	1:Q:187:PRO:HG3	1.71	0.72
1:Z:101:MET:HB2	1:Z:410:TYR:O	1.90	0.72
1:d:101:MET:HB2	1:d:410:TYR:O	1.90	0.72
1:j:101:MET:HB2	1:j:410:TYR:O	1.90	0.72
1:l:174:THR:HB	1:l:187:PRO:HG3	1.71	0.72
1:m:101:MET:HB2	1:m:410:TYR:O	1.90	0.72
1:n:101:MET:HB2	1:n:410:TYR:O	1.90	0.72
1:p:174:THR:HB	1:p:187:PRO:HG3	1.71	0.72
1:t:64:ASP:O	1:y:181:ASN:ND2	2.21	0.72
1:t:101:MET:HB2	1:t:410:TYR:O	1.90	0.72
1:t:286:LEU:HD11	1:t:398:ILE:CD1	2.20	0.72
1:v:101:MET:HB2	1:v:410:TYR:O	1.90	0.72
1:y:286:LEU:HD11	1:y:398:ILE:CD1	2.20	0.72
1:z:101:MET:HB2	1:z:410:TYR:O	1.90	0.72
1:A:101:MET:HB2	1:A:410:TYR:O	1.90	0.71
1:A:286:LEU:HD11	1:A:398:ILE:CD1	2.20	0.71
1:C:203:ASP:CG	1:C:204:ILE:H	1.97	0.71
1:E:286:LEU:HD11	1:E:398:ILE:CD1	2.20	0.71
1:F:286:LEU:HD11	1:F:398:ILE:CD1	2.20	0.71
1:G:101:MET:HB2	1:G:410:TYR:O	1.90	0.71
1:G:254:PHE:CE1	1:I:314:SER:HB2	2.25	0.71
1:P:101:MET:HB2	1:P:410:TYR:O	1.90	0.71
1:b:203:ASP:CG	1:b:204:ILE:H	1.97	0.71
1:g:314:SER:HB2	1:h:254:PHE:CE1	2.25	0.71
1:p:203:ASP:CG	1:p:204:ILE:H	1.97	0.71
1:r:240:ASP:OD2	1:r:437:SER:HB3	1.89	0.71
1:w:286:LEU:HD11	1:w:398:ILE:CD1	2.20	0.71
1:2:101:MET:HB2	1:2:410:TYR:O	1.90	0.71
1:A:181:ASN:ND2	1:E:64:ASP:O	2.24	0.71
1:B:101:MET:HB2	1:B:410:TYR:O	1.90	0.71
1:C:314:SER:HB2	1:M:254:PHE:CE1	2.25	0.71
1:L:174:THR:HB	1:L:187:PRO:HG3	1.71	0.71
1:j:240:ASP:OD2	1:j:437:SER:HB3	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:254:PHE:CE1	1:s:314:SER:HB2	2.25	0.71
1:v:181:ASN:ND2	1:w:64:ASP:O	2.24	0.71
1:y:203:ASP:CG	1:y:204:ILE:H	1.97	0.71
1:z:174:THR:HB	1:z:187:PRO:HG3	1.71	0.71
1:1:101:MET:HB2	1:1:410:TYR:O	1.90	0.71
1:8:101:MET:HB2	1:8:410:TYR:O	1.90	0.71
1:H:314:SER:HB2	1:Y:254:PHE:CE1	2.25	0.71
1:I:286:LEU:HD11	1:I:398:ILE:CD1	2.20	0.71
1:J:101:MET:HB2	1:J:410:TYR:O	1.90	0.71
1:L:240:ASP:OD2	1:L:437:SER:HB3	1.89	0.71
1:M:64:ASP:O	1:c:181:ASN:ND2	2.24	0.71
1:P:174:THR:HB	1:P:187:PRO:HG3	1.71	0.71
1:S:240:ASP:OD2	1:S:437:SER:HB3	1.89	0.71
1:V:203:ASP:CG	1:V:204:ILE:H	1.97	0.71
1:Y:286:LEU:HD11	1:Y:398:ILE:CD1	2.20	0.71
1:a:101:MET:HB2	1:a:410:TYR:O	1.90	0.71
1:e:181:ASN:ND2	1:h:64:ASP:O	2.23	0.71
1:g:203:ASP:CG	1:g:204:ILE:H	1.97	0.71
1:n:64:ASP:O	1:r:181:ASN:ND2	2.23	0.71
1:t:314:SER:HB2	1:v:254:PHE:CE1	2.25	0.71
1:w:101:MET:HB2	1:w:410:TYR:O	1.90	0.71
1:5:101:MET:HB2	1:5:410:TYR:O	1.90	0.71
1:B:174:THR:HB	1:B:187:PRO:HG3	1.71	0.71
1:C:273:ALA:HB1	1:C:281:TRP:CD1	2.26	0.71
1:E:314:SER:HB2	1:F:254:PHE:CE1	2.25	0.71
1:F:101:MET:HB2	1:F:410:TYR:O	1.90	0.71
1:H:254:PHE:CE1	1:W:314:SER:HB2	2.25	0.71
1:J:240:ASP:OD2	1:J:437:SER:HB3	1.89	0.71
1:J:254:PHE:CE1	1:L:314:SER:HB2	2.25	0.71
1:M:314:SER:HB2	1:b:254:PHE:CE1	2.25	0.71
1:S:181:ASN:ND2	1:d:64:ASP:O	2.23	0.71
1:T:240:ASP:OD2	1:T:437:SER:HB3	1.89	0.71
1:c:286:LEU:HD11	1:c:398:ILE:CD1	2.20	0.71
1:e:286:LEU:HD11	1:e:398:ILE:CD1	2.20	0.71
1:f:254:PHE:CE1	1:h:314:SER:HB2	2.25	0.71
1:j:174:THR:HB	1:j:187:PRO:HG3	1.71	0.71
1:r:101:MET:HB2	1:r:410:TYR:O	1.90	0.71
1:u:240:ASP:OD2	1:u:437:SER:HB3	1.89	0.71
1:w:314:SER:HB2	1:y:254:PHE:CE1	2.25	0.71
1:x:254:PHE:CE1	1:y:314:SER:HB2	2.25	0.71
1:y:101:MET:HB2	1:y:410:TYR:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:314:SER:HB2	1:2:254:PHE:CE1	2.25	0.71
1:1:174:THR:HB	1:1:187:PRO:HG3	1.71	0.71
1:3:101:MET:HB2	1:3:410:TYR:O	1.90	0.71
1:4:286:LEU:HD11	1:4:398:ILE:CD1	2.20	0.71
1:5:254:PHE:CE1	1:6:314:SER:HB2	2.25	0.71
1:B:64:ASP:O	1:C:181:ASN:ND2	2.24	0.71
1:C:286:LEU:HD11	1:C:398:ILE:CD1	2.20	0.71
1:D:101:MET:HB2	1:D:410:TYR:O	1.90	0.71
1:E:101:MET:HB2	1:E:410:TYR:O	1.90	0.71
1:G:273:ALA:HB1	1:G:281:TRP:CD1	2.26	0.71
1:H:101:MET:HB2	1:H:410:TYR:O	1.90	0.71
1:H:273:ALA:HB1	1:H:281:TRP:CD1	2.26	0.71
1:I:240:ASP:OD2	1:I:437:SER:HB3	1.89	0.71
1:K:286:LEU:HD11	1:K:398:ILE:CD1	2.20	0.71
1:M:101:MET:HB2	1:M:410:TYR:O	1.90	0.71
1:O:254:PHE:CE1	1:m:314:SER:HB2	2.25	0.71
1:P:181:ASN:ND2	1:Q:64:ASP:O	2.24	0.71
1:P:240:ASP:OD2	1:P:437:SER:HB3	1.89	0.71
1:R:254:PHE:CE1	1:S:314:SER:HB2	2.25	0.71
1:S:254:PHE:CE1	1:U:314:SER:HB2	2.25	0.71
1:T:314:SER:HB2	1:l:254:PHE:CE1	2.25	0.71
1:X:370:ARG:NH1	1:X:524:THR:O	2.24	0.71
1:e:101:MET:HB2	1:e:410:TYR:O	1.90	0.71
1:f:370:ARG:NH1	1:f:524:THR:O	2.24	0.71
1:g:181:ASN:ND2	1:1:64:ASP:O	2.24	0.71
1:g:273:ALA:HB1	1:g:281:TRP:CD1	2.26	0.71
1:g:286:LEU:HD11	1:g:398:ILE:CD1	2.20	0.71
1:h:101:MET:HB2	1:h:410:TYR:O	1.90	0.71
1:j:181:ASN:ND2	1:x:64:ASP:O	2.24	0.71
1:k:286:LEU:HD11	1:k:398:ILE:CD1	2.20	0.71
1:o:370:ARG:NH1	1:o:524:THR:O	2.24	0.71
1:q:254:PHE:CE1	1:r:314:SER:HB2	2.25	0.71
1:u:273:ALA:HB1	1:u:281:TRP:CD1	2.26	0.71
1:u:286:LEU:HD11	1:u:398:ILE:CD1	2.20	0.71
1:v:64:ASP:O	1:1:181:ASN:ND2	2.23	0.71
1:z:240:ASP:OD2	1:z:437:SER:HB3	1.89	0.71
1:5:273:ALA:HB1	1:5:281:TRP:CD1	2.26	0.71
1:5:314:SER:HB2	1:7:254:PHE:CE1	2.25	0.71
1:7:286:LEU:HD11	1:7:398:ILE:CD1	2.20	0.71
1:F:314:SER:HB2	1:Q:254:PHE:CE1	2.25	0.71
1:F:422:ASP:OD2	1:Q:525:LYS:NZ	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:64:ASP:O	1:Z:181:ASN:ND2	2.23	0.71
1:I:273:ALA:HB1	1:I:281:TRP:CD1	2.26	0.71
1:N:101:MET:HB2	1:N:410:TYR:O	1.90	0.71
1:N:174:THR:HB	1:N:187:PRO:HG3	1.71	0.71
1:Q:273:ALA:HB1	1:Q:281:TRP:CD1	2.26	0.71
1:S:101:MET:HB2	1:S:410:TYR:O	1.90	0.71
1:V:273:ALA:HB1	1:V:281:TRP:CD1	2.26	0.71
1:Z:286:LEU:HD11	1:Z:398:ILE:CD1	2.20	0.71
1:b:370:ARG:NH1	1:b:524:THR:O	2.24	0.71
1:c:64:ASP:O	1:s:181:ASN:ND2	2.24	0.71
1:f:119:LYS:HE3	1:f:476:GLU:HG3	1.73	0.71
1:g:101:MET:HB2	1:g:410:TYR:O	1.90	0.71
1:k:101:MET:HB2	1:k:410:TYR:O	1.90	0.71
1:n:174:THR:HB	1:n:187:PRO:HG3	1.71	0.71
1:p:273:ALA:HB1	1:p:281:TRP:CD1	2.26	0.71
1:s:174:THR:HB	1:s:187:PRO:HG3	1.71	0.71
1:t:273:ALA:HB1	1:t:281:TRP:CD1	2.26	0.71
1:x:273:ALA:HB1	1:x:281:TRP:CD1	2.26	0.71
1:1:286:LEU:HD11	1:1:398:ILE:CD1	2.20	0.71
1:5:64:ASP:O	1:8:181:ASN:ND2	2.23	0.71
1:6:174:THR:HB	1:6:187:PRO:HG3	1.71	0.71
1:6:286:LEU:HD11	1:6:398:ILE:CD1	2.20	0.71
1:B:286:LEU:HD11	1:B:398:ILE:CD1	2.20	0.71
1:C:101:MET:HB2	1:C:410:TYR:O	1.90	0.71
1:D:286:LEU:HD11	1:D:398:ILE:CD1	2.20	0.71
1:I:101:MET:HB2	1:I:410:TYR:O	1.90	0.71
1:I:119:LYS:HE3	1:I:476:GLU:HG3	1.73	0.71
1:U:174:THR:HB	1:U:187:PRO:HG3	1.71	0.71
1:U:181:ASN:ND2	1:e:64:ASP:O	2.24	0.71
1:W:286:LEU:HD11	1:W:398:ILE:CD1	2.20	0.71
1:X:64:ASP:O	1:f:181:ASN:ND2	2.24	0.71
1:Y:181:ASN:ND2	1:4:64:ASP:O	2.23	0.71
1:b:181:ASN:ND2	1:o:64:ASP:O	2.24	0.71
1:c:101:MET:HB2	1:c:410:TYR:O	1.90	0.71
1:d:174:THR:HB	1:d:187:PRO:HG3	1.71	0.71
1:i:101:MET:HB2	1:i:410:TYR:O	1.90	0.71
1:i:174:THR:HB	1:i:187:PRO:HG3	1.71	0.71
1:m:240:ASP:OD2	1:m:437:SER:HB3	1.89	0.71
1:q:174:THR:HB	1:q:187:PRO:HG3	1.71	0.71
1:2:240:ASP:OD2	1:2:437:SER:HB3	1.89	0.71
1:8:286:LEU:HD11	1:8:398:ILE:CD1	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:183:ILE:CD1	1:W:458:TYR:HE1	1.90	0.71
1:H:119:LYS:HE3	1:H:476:GLU:HG3	1.73	0.71
1:K:64:ASP:O	1:7:181:ASN:ND2	2.23	0.71
1:R:101:MET:HB2	1:R:410:TYR:O	1.90	0.71
1:R:174:THR:HB	1:R:187:PRO:HG3	1.71	0.71
1:R:286:LEU:HD11	1:R:398:ILE:CD1	2.20	0.71
1:Y:273:ALA:HB1	1:Y:281:TRP:CD1	2.26	0.71
1:b:101:MET:HB2	1:b:410:TYR:O	1.90	0.71
1:b:119:LYS:HE3	1:b:476:GLU:HG3	1.73	0.71
1:f:101:MET:HB2	1:f:410:TYR:O	1.90	0.71
1:i:286:LEU:HD11	1:i:398:ILE:CD1	2.20	0.71
1:q:101:MET:HB2	1:q:410:TYR:O	1.90	0.71
1:u:101:MET:HB2	1:u:410:TYR:O	1.90	0.71
1:5:119:LYS:HE3	1:5:476:GLU:HG3	1.73	0.71
1:B:273:ALA:HB1	1:B:281:TRP:CD1	2.26	0.71
1:D:64:ASP:O	1:E:181:ASN:ND2	2.24	0.71
1:D:240:ASP:OD2	1:D:437:SER:HB3	1.89	0.71
1:E:273:ALA:HB1	1:E:281:TRP:CD1	2.26	0.71
1:I:186:LEU:HD21	1:I:465:PHE:HZ	1.56	0.71
1:J:186:LEU:HD21	1:J:465:PHE:HZ	1.56	0.71
1:J:273:ALA:HB1	1:J:281:TRP:CD1	2.26	0.71
1:K:101:MET:HB2	1:K:410:TYR:O	1.90	0.71
1:O:188:GLN:OE1	1:O:352:LYS:NZ	2.18	0.71
1:O:286:LEU:HD11	1:O:398:ILE:CD1	2.20	0.71
1:O:370:ARG:NH1	1:O:524:THR:O	2.24	0.71
1:Q:101:MET:HB2	1:Q:410:TYR:O	1.90	0.71
1:U:273:ALA:HB1	1:U:281:TRP:CD1	2.26	0.71
1:V:64:ASP:O	1:W:181:ASN:ND2	2.24	0.71
1:V:286:LEU:HD11	1:V:398:ILE:CD1	2.20	0.71
1:W:174:THR:HB	1:W:187:PRO:HG3	1.71	0.71
1:X:119:LYS:HE3	1:X:476:GLU:HG3	1.73	0.71
1:X:273:ALA:HB1	1:X:281:TRP:CD1	2.26	0.71
1:b:273:ALA:HB1	1:b:281:TRP:CD1	2.26	0.71
1:f:273:ALA:HB1	1:f:281:TRP:CD1	2.26	0.71
1:l:64:ASP:O	1:n:181:ASN:ND2	2.23	0.71
1:l:370:ARG:NH1	1:l:524:THR:O	2.24	0.71
1:o:119:LYS:HE3	1:o:476:GLU:HG3	1.73	0.71
1:p:286:LEU:HD11	1:p:398:ILE:CD1	2.20	0.71
1:s:273:ALA:HB1	1:s:281:TRP:CD1	2.26	0.71
1:w:273:ALA:HB1	1:w:281:TRP:CD1	2.26	0.71
1:2:186:LEU:HD21	1:2:465:PHE:HZ	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:273:ALA:HB1	1:2:281:TRP:CD1	2.26	0.71
1:5:186:LEU:HD21	1:5:465:PHE:HZ	1.56	0.71
1:7:273:ALA:HB1	1:7:281:TRP:CD1	2.26	0.71
1:E:186:LEU:HD21	1:E:465:PHE:HZ	1.56	0.71
1:E:370:ARG:NH1	1:E:524:THR:O	2.24	0.71
1:G:370:ARG:NH1	1:G:524:THR:O	2.24	0.71
1:H:186:LEU:HD21	1:H:465:PHE:HZ	1.56	0.71
1:N:286:LEU:HD11	1:N:398:ILE:CD1	2.20	0.71
1:O:64:ASP:O	1:d:181:ASN:ND2	2.23	0.71
1:O:273:ALA:HB1	1:O:281:TRP:CD1	2.26	0.71
1:R:119:LYS:HE3	1:R:476:GLU:HG3	1.73	0.71
1:f:186:LEU:HD21	1:f:465:PHE:HZ	1.56	0.71
1:k:240:ASP:OD2	1:k:437:SER:HB3	1.89	0.71
1:k:273:ALA:HB1	1:k:281:TRP:CD1	2.26	0.71
1:l:286:LEU:HD11	1:l:398:ILE:CD1	2.20	0.71
1:o:273:ALA:HB1	1:o:281:TRP:CD1	2.26	0.71
1:p:64:ASP:O	1:6:181:ASN:ND2	2.24	0.71
1:q:119:LYS:HE3	1:q:476:GLU:HG3	1.73	0.71
1:q:286:LEU:HD11	1:q:398:ILE:CD1	2.20	0.71
1:u:119:LYS:HE3	1:u:476:GLU:HG3	1.73	0.71
1:u:186:LEU:HD21	1:u:465:PHE:HZ	1.56	0.71
1:w:370:ARG:NH1	1:w:524:THR:O	2.24	0.71
1:z:370:ARG:NH1	1:z:524:THR:O	2.24	0.71
1:1:370:ARG:NH1	1:1:524:THR:O	2.24	0.71
1:3:181:ASN:ND2	1:8:64:ASP:O	2.23	0.71
1:4:101:MET:HB2	1:4:410:TYR:O	1.90	0.71
1:5:203:ASP:CG	1:5:204:ILE:H	1.97	0.71
1:B:186:LEU:HD21	1:B:465:PHE:HZ	1.56	0.70
1:B:370:ARG:NH1	1:B:524:THR:O	2.24	0.70
1:D:273:ALA:HB1	1:D:281:TRP:CD1	2.26	0.70
1:H:203:ASP:CG	1:H:204:ILE:H	1.97	0.70
1:R:64:ASP:O	1:V:181:ASN:ND2	2.24	0.70
1:S:186:LEU:HD21	1:S:465:PHE:HZ	1.56	0.70
1:S:286:LEU:HD11	1:S:398:ILE:CD1	2.20	0.70
1:T:174:THR:HB	1:T:187:PRO:HG3	1.71	0.70
1:l:119:LYS:HE3	1:l:476:GLU:HG3	1.73	0.70
1:l:273:ALA:HB1	1:l:281:TRP:CD1	2.26	0.70
1:m:174:THR:HB	1:m:187:PRO:HG3	1.71	0.70
1:m:273:ALA:HB1	1:m:281:TRP:CD1	2.26	0.70
1:n:286:LEU:HD11	1:n:398:ILE:CD1	2.20	0.70
1:p:181:ASN:ND2	1:q:64:ASP:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:186:LEU:HD21	1:r:465:PHE:HZ	1.56	0.70
1:t:370:ARG:NH1	1:t:524:THR:O	2.24	0.70
1:w:174:THR:HB	1:w:187:PRO:HG3	1.71	0.70
1:w:186:LEU:HD21	1:w:465:PHE:HZ	1.56	0.70
1:x:101:MET:HB2	1:x:410:TYR:O	1.90	0.70
1:z:64:ASP:O	1:4:181:ASN:ND2	2.24	0.70
1:1:273:ALA:HB1	1:1:281:TRP:CD1	2.26	0.70
1:K:186:LEU:HD21	1:K:465:PHE:HZ	1.56	0.70
1:N:273:ALA:HB1	1:N:281:TRP:CD1	2.26	0.70
1:O:119:LYS:HE3	1:O:476:GLU:HG3	1.73	0.70
1:Q:186:LEU:HD21	1:Q:465:PHE:HZ	1.56	0.70
1:T:273:ALA:HB1	1:T:281:TRP:CD1	2.26	0.70
1:W:186:LEU:HD21	1:W:465:PHE:HZ	1.56	0.70
1:Z:64:ASP:O	1:a:181:ASN:ND2	2.23	0.70
1:b:186:LEU:HD21	1:b:465:PHE:HZ	1.56	0.70
1:d:286:LEU:HD11	1:d:398:ILE:CD1	2.20	0.70
1:g:183:ILE:CD1	1:1:458:TYR:HE1	1.90	0.70
1:i:273:ALA:HB1	1:i:281:TRP:CD1	2.26	0.70
1:k:64:ASP:O	1:w:181:ASN:ND2	2.24	0.70
1:l:188:GLN:OE1	1:l:352:LYS:NZ	2.18	0.70
1:r:286:LEU:HD11	1:r:398:ILE:CD1	2.20	0.70
1:t:183:ILE:CD1	1:6:458:TYR:HE1	1.92	0.70
1:1:186:LEU:HD21	1:1:465:PHE:HZ	1.56	0.70
1:3:119:LYS:HE3	1:3:476:GLU:HG3	1.73	0.70
1:3:273:ALA:HB1	1:3:281:TRP:CD1	2.26	0.70
1:6:186:LEU:HD21	1:6:465:PHE:HZ	1.56	0.70
1:D:119:LYS:HE3	1:D:476:GLU:HG3	1.73	0.70
1:E:174:THR:HB	1:E:187:PRO:HG3	1.71	0.70
1:L:370:ARG:NH1	1:L:524:THR:O	2.24	0.70
1:M:174:THR:HB	1:M:187:PRO:HG3	1.71	0.70
1:O:101:MET:HB2	1:O:410:TYR:O	1.90	0.70
1:Z:186:LEU:HD21	1:Z:465:PHE:HZ	1.56	0.70
1:a:119:LYS:HE3	1:a:476:GLU:HG3	1.73	0.70
1:d:273:ALA:HB1	1:d:281:TRP:CD1	2.26	0.70
1:e:174:THR:HB	1:e:187:PRO:HG3	1.71	0.70
1:h:174:THR:HB	1:h:187:PRO:HG3	1.71	0.70
1:l:101:MET:HB2	1:l:410:TYR:O	1.90	0.70
1:x:186:LEU:HD21	1:x:465:PHE:HZ	1.56	0.70
1:4:186:LEU:HD21	1:4:465:PHE:HZ	1.56	0.70
1:4:273:ALA:HB1	1:4:281:TRP:CD1	2.26	0.70
1:5:302:ASN:O	1:5:305:THR:OG1	2.08	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:525:LYS:NZ	1:6:422:ASP:OD2	2.22	0.70
1:F:273:ALA:HB1	1:F:281:TRP:CD1	2.26	0.70
1:H:181:ASN:ND2	1:I:64:ASP:O	2.24	0.70
1:K:273:ALA:HB1	1:K:281:TRP:CD1	2.26	0.70
1:M:273:ALA:HB1	1:M:281:TRP:CD1	2.26	0.70
1:P:370:ARG:NH1	1:P:524:THR:O	2.24	0.70
1:W:101:MET:HB2	1:W:410:TYR:O	1.90	0.70
1:W:188:GLN:OE1	1:W:352:LYS:NZ	2.18	0.70
1:Z:273:ALA:HB1	1:Z:281:TRP:CD1	2.26	0.70
1:a:273:ALA:HB1	1:a:281:TRP:CD1	2.26	0.70
1:c:174:THR:HB	1:c:187:PRO:HG3	1.71	0.70
1:c:186:LEU:HD21	1:c:465:PHE:HZ	1.56	0.70
1:e:186:LEU:HD21	1:e:465:PHE:HZ	1.56	0.70
1:h:273:ALA:HB1	1:h:281:TRP:CD1	2.26	0.70
1:j:64:ASP:O	1:l:181:ASN:ND2	2.23	0.70
1:k:119:LYS:HE3	1:k:476:GLU:HG3	1.73	0.70
1:m:286:LEU:HD11	1:m:398:ILE:CD1	2.20	0.70
1:n:273:ALA:HB1	1:n:281:TRP:CD1	2.26	0.70
1:r:64:ASP:O	1:x:181:ASN:ND2	2.24	0.70
1:r:273:ALA:HB1	1:r:281:TRP:CD1	2.26	0.70
1:z:273:ALA:HB1	1:z:281:TRP:CD1	2.26	0.70
1:8:186:LEU:HD21	1:8:465:PHE:HZ	1.56	0.70
1:C:370:ARG:NH1	1:C:524:THR:O	2.24	0.70
1:K:181:ASN:ND2	1:L:64:ASP:O	2.24	0.70
1:N:370:ARG:NH1	1:N:524:THR:O	2.24	0.70
1:Q:181:ASN:ND2	1:S:64:ASP:O	2.24	0.70
1:Q:286:LEU:HD11	1:Q:398:ILE:CD1	2.20	0.70
1:S:273:ALA:HB1	1:S:281:TRP:CD1	2.26	0.70
1:T:286:LEU:HD11	1:T:398:ILE:CD1	2.20	0.70
1:Y:101:MET:HB2	1:Y:410:TYR:O	1.90	0.70
1:j:370:ARG:NH1	1:j:524:THR:O	2.24	0.70
1:q:273:ALA:HB1	1:q:281:TRP:CD1	2.26	0.70
1:t:181:ASN:ND2	1:6:64:ASP:O	2.23	0.70
1:t:254:PHE:CE1	1:u:314:SER:HB2	2.26	0.70
1:u:181:ASN:ND2	1:2:64:ASP:O	2.24	0.70
1:y:186:LEU:HD21	1:y:465:PHE:HZ	1.56	0.70
1:y:273:ALA:HB1	1:y:281:TRP:CD1	2.26	0.70
1:6:101:MET:HB2	1:6:410:TYR:O	1.90	0.70
1:7:101:MET:HB2	1:7:410:TYR:O	1.90	0.70
1:8:273:ALA:HB1	1:8:281:TRP:CD1	2.26	0.70
1:F:186:LEU:HD21	1:F:465:PHE:HZ	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:181:ASN:ND2	1:J:64:ASP:O	2.24	0.70
1:I:370:ARG:NH1	1:I:524:THR:O	2.24	0.70
1:O:181:ASN:ND2	1:P:64:ASP:O	2.23	0.70
1:R:273:ALA:HB1	1:R:281:TRP:CD1	2.26	0.70
1:T:64:ASP:O	1:i:181:ASN:ND2	2.23	0.70
1:V:101:MET:HB2	1:V:410:TYR:O	1.90	0.70
1:W:273:ALA:HB1	1:W:281:TRP:CD1	2.26	0.70
1:g:370:ARG:NH1	1:g:524:THR:O	2.24	0.70
1:i:188:GLN:OE1	1:i:352:LYS:NZ	2.18	0.70
1:i:370:ARG:NH1	1:i:524:THR:O	2.24	0.70
1:k:186:LEU:HD21	1:k:465:PHE:HZ	1.56	0.70
1:u:64:ASP:O	1:5:181:ASN:ND2	2.24	0.70
1:x:286:LEU:HD11	1:x:398:ILE:CD1	2.20	0.70
1:6:188:GLN:OE1	1:6:352:LYS:NZ	2.18	0.70
1:B:458:TYR:HE1	1:C:183:ILE:CD1	1.90	0.70
1:D:370:ARG:NH1	1:D:524:THR:O	2.24	0.70
1:L:273:ALA:HB1	1:L:281:TRP:CD1	2.26	0.70
1:N:119:LYS:HE3	1:N:476:GLU:HG3	1.73	0.70
1:N:181:ASN:ND2	1:m:64:ASP:O	2.23	0.70
1:v:119:LYS:HE3	1:v:476:GLU:HG3	1.73	0.70
1:A:119:LYS:HE3	1:A:476:GLU:HG3	1.73	0.70
1:D:186:LEU:HD21	1:D:465:PHE:HZ	1.56	0.70
1:F:370:ARG:NH1	1:F:524:THR:O	2.24	0.70
1:G:181:ASN:ND2	1:W:64:ASP:O	2.24	0.70
1:L:119:LYS:HE3	1:L:476:GLU:HG3	1.73	0.70
1:O:186:LEU:HD21	1:O:465:PHE:HZ	1.56	0.70
1:P:119:LYS:HE3	1:P:476:GLU:HG3	1.73	0.70
1:Q:119:LYS:HE3	1:Q:476:GLU:HG3	1.73	0.70
1:c:119:LYS:HE3	1:c:476:GLU:HG3	1.73	0.70
1:e:370:ARG:NH1	1:e:524:THR:O	2.24	0.70
1:i:119:LYS:HE3	1:i:476:GLU:HG3	1.73	0.70
1:p:101:MET:HB2	1:p:410:TYR:O	1.90	0.70
1:p:119:LYS:HE3	1:p:476:GLU:HG3	1.73	0.70
1:u:370:ARG:NH1	1:u:524:THR:O	2.24	0.70
1:y:370:ARG:NH1	1:y:524:THR:O	2.24	0.70
1:z:422:ASP:OD2	1:2:525:LYS:NZ	2.22	0.70
1:6:273:ALA:HB1	1:6:281:TRP:CD1	2.26	0.70
1:A:273:ALA:HB1	1:A:281:TRP:CD1	2.26	0.70
1:K:119:LYS:HE3	1:K:476:GLU:HG3	1.73	0.70
1:N:188:GLN:OE1	1:N:352:LYS:NZ	2.18	0.70
1:P:273:ALA:HB1	1:P:281:TRP:CD1	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:370:ARG:NH1	1:S:524:THR:O	2.24	0.70
1:T:186:LEU:HD21	1:T:465:PHE:HZ	1.56	0.70
1:V:119:LYS:HE3	1:V:476:GLU:HG3	1.73	0.70
1:V:370:ARG:NH1	1:V:524:THR:O	2.24	0.70
1:W:370:ARG:NH1	1:W:524:THR:O	2.24	0.70
1:f:64:ASP:O	1:z:181:ASN:ND2	2.24	0.70
1:j:119:LYS:HE3	1:j:476:GLU:HG3	1.73	0.70
1:k:370:ARG:NH1	1:k:524:THR:O	2.24	0.70
1:o:181:ASN:ND2	1:7:64:ASP:O	2.24	0.70
1:v:273:ALA:HB1	1:v:281:TRP:CD1	2.26	0.70
1:z:119:LYS:HE3	1:z:476:GLU:HG3	1.73	0.70
1:2:119:LYS:HE3	1:2:476:GLU:HG3	1.73	0.70
1:F:119:LYS:HE3	1:F:476:GLU:HG3	1.73	0.70
1:G:119:LYS:HE3	1:G:476:GLU:HG3	1.73	0.70
1:U:186:LEU:HD21	1:U:465:PHE:HZ	1.56	0.70
1:c:370:ARG:NH1	1:c:524:THR:O	2.24	0.70
1:e:119:LYS:HE3	1:e:476:GLU:HG3	1.73	0.70
1:h:181:ASN:ND2	1:i:64:ASP:O	2.24	0.70
1:j:273:ALA:HB1	1:j:281:TRP:CD1	2.26	0.70
1:m:186:LEU:HD21	1:m:465:PHE:HZ	1.56	0.70
1:s:186:LEU:HD21	1:s:465:PHE:HZ	1.56	0.70
1:x:119:LYS:HE3	1:x:476:GLU:HG3	1.73	0.70
1:y:119:LYS:HE3	1:y:476:GLU:HG3	1.73	0.70
1:4:119:LYS:HE3	1:4:476:GLU:HG3	1.73	0.70
1:J:119:LYS:HE3	1:J:476:GLU:HG3	1.73	0.69
1:M:181:ASN:ND2	1:N:64:ASP:O	2.24	0.69
1:U:101:MET:HB2	1:U:410:TYR:O	1.90	0.69
1:X:181:ASN:ND2	1:Y:64:ASP:O	2.24	0.69
1:a:186:LEU:HD21	1:a:465:PHE:HZ	1.56	0.69
1:g:186:LEU:HD21	1:g:465:PHE:HZ	1.56	0.69
1:l:186:LEU:HD21	1:l:465:PHE:HZ	1.56	0.69
1:p:370:ARG:NH1	1:p:524:THR:O	2.24	0.69
1:r:370:ARG:NH1	1:r:524:THR:O	2.24	0.69
1:s:370:ARG:NH1	1:s:524:THR:O	2.24	0.69
1:z:525:LYS:NZ	1:1:422:ASP:OD2	2.22	0.69
1:3:186:LEU:HD21	1:3:465:PHE:HZ	1.56	0.69
1:6:370:ARG:NH1	1:6:524:THR:O	2.24	0.69
1:7:186:LEU:HD21	1:7:465:PHE:HZ	1.56	0.69
1:A:186:LEU:HD21	1:A:465:PHE:HZ	1.56	0.69
1:A:254:PHE:CE1	1:G:314:SER:HB2	2.27	0.69
1:C:186:LEU:HD21	1:C:465:PHE:HZ	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:181:ASN:ND2	1:b:64:ASP:O	2.24	0.69
1:d:119:LYS:HE3	1:d:476:GLU:HG3	1.73	0.69
1:m:181:ASN:ND2	1:s:64:ASP:O	2.24	0.69
1:q:186:LEU:HD21	1:q:465:PHE:HZ	1.56	0.69
1:t:119:LYS:HE3	1:t:476:GLU:HG3	1.73	0.69
1:z:186:LEU:HD21	1:z:465:PHE:HZ	1.56	0.69
1:B:119:LYS:HE3	1:B:476:GLU:HG3	1.73	0.69
1:U:370:ARG:NH1	1:U:524:THR:O	2.24	0.69
1:Y:186:LEU:HD21	1:Y:465:PHE:HZ	1.56	0.69
1:e:273:ALA:HB1	1:e:281:TRP:CD1	2.26	0.69
1:m:370:ARG:NH1	1:m:524:THR:O	2.24	0.69
1:o:186:LEU:HD21	1:o:465:PHE:HZ	1.56	0.69
1:r:119:LYS:HE3	1:r:476:GLU:HG3	1.73	0.69
1:s:101:MET:HB2	1:s:410:TYR:O	1.90	0.69
1:v:186:LEU:HD21	1:v:465:PHE:HZ	1.56	0.69
1:E:119:LYS:HE3	1:E:476:GLU:HG3	1.73	0.69
1:F:188:GLN:OE1	1:F:352:LYS:NZ	2.18	0.69
1:L:186:LEU:HD21	1:L:465:PHE:HZ	1.56	0.69
1:M:119:LYS:HE3	1:M:476:GLU:HG3	1.73	0.69
1:N:186:LEU:HD21	1:N:465:PHE:HZ	1.56	0.69
1:R:186:LEU:HD21	1:R:465:PHE:HZ	1.56	0.69
1:S:119:LYS:HE3	1:S:476:GLU:HG3	1.73	0.69
1:T:181:ASN:ND2	1:U:64:ASP:O	2.24	0.69
1:T:370:ARG:NH1	1:T:524:THR:O	2.24	0.69
1:V:186:LEU:HD21	1:V:465:PHE:HZ	1.56	0.69
1:X:186:LEU:HD21	1:X:465:PHE:HZ	1.56	0.69
1:Y:370:ARG:NH1	1:Y:524:THR:O	2.24	0.69
1:Z:370:ARG:NH1	1:Z:524:THR:O	2.24	0.69
1:g:64:ASP:O	1:k:181:ASN:ND2	2.23	0.69
1:m:119:LYS:HE3	1:m:476:GLU:HG3	1.73	0.69
1:n:119:LYS:HE3	1:n:476:GLU:HG3	1.73	0.69
1:q:181:ASN:ND2	1:y:64:ASP:O	2.24	0.69
1:4:370:ARG:NH1	1:4:524:THR:O	2.24	0.69
1:A:370:ARG:NH1	1:A:524:THR:O	2.24	0.69
1:F:64:ASP:O	1:R:181:ASN:ND2	2.23	0.69
1:J:181:ASN:ND2	1:a:64:ASP:O	2.24	0.69
1:K:188:GLN:OE1	1:K:352:LYS:NZ	2.18	0.69
1:M:186:LEU:HD21	1:M:465:PHE:HZ	1.56	0.69
1:c:273:ALA:HB1	1:c:281:TRP:CD1	2.26	0.69
1:h:119:LYS:HE3	1:h:476:GLU:HG3	1.73	0.69
1:i:186:LEU:HD21	1:i:465:PHE:HZ	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:188:GLN:OE1	1:y:352:LYS:NZ	2.18	0.69
1:1:119:LYS:HE3	1:1:476:GLU:HG3	1.73	0.69
1:3:370:ARG:NH1	1:3:524:THR:O	2.24	0.69
1:7:370:ARG:NH1	1:7:524:THR:O	2.24	0.69
1:8:370:ARG:NH1	1:8:524:THR:O	2.24	0.69
1:F:181:ASN:ND2	1:G:64:ASP:O	2.24	0.69
1:K:370:ARG:NH1	1:K:524:THR:O	2.24	0.69
1:R:370:ARG:NH1	1:R:524:THR:O	2.24	0.69
1:U:188:GLN:OE1	1:U:352:LYS:NZ	2.18	0.69
1:h:186:LEU:HD21	1:h:465:PHE:HZ	1.56	0.69
1:p:186:LEU:HD21	1:p:465:PHE:HZ	1.56	0.69
1:s:188:GLN:OE1	1:s:352:LYS:NZ	2.18	0.69
1:t:296:GLY:O	1:v:269:ARG:HG2	1.93	0.69
1:x:302:ASN:O	1:x:305:THR:OG1	2.08	0.69
1:2:181:ASN:ND2	1:3:64:ASP:O	2.23	0.69
1:A:296:GLY:O	1:I:269:ARG:HG2	1.91	0.69
1:Q:370:ARG:NH1	1:Q:524:THR:O	2.24	0.69
1:T:119:LYS:HE3	1:T:476:GLU:HG3	1.73	0.69
1:U:119:LYS:HE3	1:U:476:GLU:HG3	1.73	0.69
1:a:370:ARG:NH1	1:a:524:THR:O	2.24	0.69
1:v:370:ARG:NH1	1:v:524:THR:O	2.24	0.69
1:7:188:GLN:OE1	1:7:352:LYS:NZ	2.18	0.69
1:C:64:ASP:O	1:D:181:ASN:ND2	2.24	0.69
1:Q:302:ASN:O	1:Q:305:THR:OG1	2.08	0.69
1:W:119:LYS:HE3	1:W:476:GLU:HG3	1.73	0.69
1:Y:119:LYS:HE3	1:Y:476:GLU:HG3	1.73	0.69
1:Z:119:LYS:HE3	1:Z:476:GLU:HG3	1.73	0.69
1:d:302:ASN:O	1:d:305:THR:OG1	2.08	0.69
1:d:370:ARG:NH1	1:d:524:THR:O	2.24	0.69
1:g:119:LYS:HE3	1:g:476:GLU:HG3	1.73	0.69
1:h:370:ARG:NH1	1:h:524:THR:O	2.24	0.69
1:n:186:LEU:HD21	1:n:465:PHE:HZ	1.56	0.69
1:q:370:ARG:NH1	1:q:524:THR:O	2.24	0.69
1:s:119:LYS:HE3	1:s:476:GLU:HG3	1.73	0.69
1:t:186:LEU:HD21	1:t:465:PHE:HZ	1.56	0.69
1:w:119:LYS:HE3	1:w:476:GLU:HG3	1.73	0.69
1:4:188:GLN:OE1	1:4:352:LYS:NZ	2.18	0.69
1:8:119:LYS:HE3	1:8:476:GLU:HG3	1.73	0.69
1:E:269:ARG:HG2	1:Q:296:GLY:O	1.93	0.69
1:H:370:ARG:NH1	1:H:524:THR:O	2.24	0.69
1:M:370:ARG:NH1	1:M:524:THR:O	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:186:LEU:HD21	1:d:465:PHE:HZ	1.56	0.69
1:x:370:ARG:NH1	1:x:524:THR:O	2.24	0.69
1:3:302:ASN:O	1:3:305:THR:OG1	2.08	0.69
1:7:119:LYS:HE3	1:7:476:GLU:HG3	1.73	0.69
1:C:119:LYS:HE3	1:C:476:GLU:HG3	1.73	0.69
1:C:269:ARG:HG2	1:b:296:GLY:O	1.93	0.69
1:a:269:ARG:HG2	1:8:296:GLY:O	1.93	0.69
1:f:296:GLY:O	1:g:269:ARG:HG2	1.93	0.69
1:n:302:ASN:O	1:n:305:THR:OG1	2.08	0.69
1:n:370:ARG:NH1	1:n:524:THR:O	2.24	0.69
1:t:302:ASN:O	1:t:305:THR:OG1	2.08	0.69
1:w:269:ARG:HG2	1:x:296:GLY:O	1.93	0.69
1:5:370:ARG:NH1	1:5:524:THR:O	2.24	0.69
1:6:119:LYS:HE3	1:6:476:GLU:HG3	1.73	0.69
1:G:186:LEU:HD21	1:G:465:PHE:HZ	1.56	0.68
1:S:525:LYS:NZ	1:U:422:ASP:OD2	2.22	0.68
1:Y:188:GLN:OE1	1:Y:352:LYS:NZ	2.18	0.68
1:g:296:GLY:O	1:h:269:ARG:HG2	1.93	0.68
1:q:422:ASP:OD2	1:s:525:LYS:NZ	2.22	0.68
1:w:296:GLY:O	1:y:269:ARG:HG2	1.93	0.68
1:x:188:GLN:OE1	1:x:352:LYS:NZ	2.18	0.68
1:E:296:GLY:O	1:F:269:ARG:HG2	1.94	0.68
1:W:269:ARG:HG2	1:Y:296:GLY:O	1.93	0.68
1:Z:296:GLY:O	1:3:269:ARG:HG2	1.93	0.68
1:r:525:LYS:NZ	1:s:422:ASP:OD2	2.22	0.68
1:5:269:ARG:HG2	1:6:296:GLY:O	1.94	0.68
1:B:296:GLY:O	1:L:269:ARG:HG2	1.93	0.68
1:C:296:GLY:O	1:M:269:ARG:HG2	1.93	0.68
1:G:302:ASN:O	1:G:305:THR:OG1	2.08	0.68
1:H:269:ARG:HG2	1:W:296:GLY:O	1.93	0.68
1:J:269:ARG:HG2	1:L:296:GLY:O	1.93	0.68
1:Q:188:GLN:OE1	1:Q:352:LYS:NZ	2.18	0.68
1:R:422:ASP:OD2	1:U:525:LYS:NZ	2.22	0.68
1:S:328:GLU:HG3	1:S:331:LYS:HD2	1.76	0.68
1:V:296:GLY:O	1:X:269:ARG:HG2	1.93	0.68
1:o:269:ARG:HG2	1:p:296:GLY:O	1.93	0.68
1:r:328:GLU:HG3	1:r:331:LYS:HD2	1.76	0.68
1:x:525:LYS:NZ	1:y:422:ASP:OD2	2.22	0.68
1:z:269:ARG:HG2	1:1:296:GLY:O	1.93	0.68
1:6:269:ARG:HG2	1:7:296:GLY:O	1.93	0.68
1:B:525:LYS:NZ	1:J:422:ASP:OD2	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:328:GLU:HG3	1:D:331:LYS:HD2	1.76	0.68
1:J:370:ARG:NH1	1:J:524:THR:O	2.24	0.68
1:O:328:GLU:HG3	1:O:331:LYS:HD2	1.76	0.68
1:R:328:GLU:HG3	1:R:331:LYS:HD2	1.76	0.68
1:X:296:GLY:O	1:e:269:ARG:HG2	1.94	0.68
1:a:328:GLU:HG3	1:a:331:LYS:HD2	1.76	0.68
1:i:302:ASN:O	1:i:305:THR:OG1	2.08	0.68
1:k:328:GLU:HG3	1:k:331:LYS:HD2	1.76	0.68
1:l:328:GLU:HG3	1:l:331:LYS:HD2	1.76	0.68
1:q:328:GLU:HG3	1:q:331:LYS:HD2	1.76	0.68
1:z:296:GLY:O	1:2:269:ARG:HG2	1.93	0.68
1:T:269:ARG:HG2	1:d:296:GLY:O	1.93	0.68
1:W:328:GLU:HG3	1:W:331:LYS:HD2	1.76	0.68
1:c:269:ARG:HG2	1:o:296:GLY:O	1.94	0.68
1:m:269:ARG:HG2	1:n:296:GLY:O	1.93	0.68
1:3:328:GLU:HG3	1:3:331:LYS:HD2	1.76	0.68
1:4:328:GLU:HG3	1:4:331:LYS:HD2	1.76	0.68
1:K:328:GLU:HG3	1:K:331:LYS:HD2	1.76	0.68
1:N:302:ASN:O	1:N:305:THR:OG1	2.08	0.68
1:V:269:ARG:HG2	1:e:296:GLY:O	1.93	0.68
1:Y:268:LEU:HG	1:Y:280:SER:O	1.94	0.68
1:a:268:LEU:HG	1:a:280:SER:O	1.94	0.68
1:2:370:ARG:NH1	1:2:524:THR:O	2.24	0.68
1:3:268:LEU:HG	1:3:280:SER:O	1.94	0.68
1:3:296:GLY:O	1:4:269:ARG:HG2	1.93	0.68
1:6:328:GLU:HG3	1:6:331:LYS:HD2	1.76	0.68
1:7:268:LEU:HG	1:7:280:SER:O	1.94	0.68
1:E:268:LEU:HG	1:E:280:SER:O	1.94	0.68
1:K:56:CYS:HB3	1:K:186:LEU:HD11	1.76	0.68
1:K:269:ARG:HG2	1:a:296:GLY:O	1.93	0.68
1:O:296:GLY:O	1:n:269:ARG:HG2	1.93	0.68
1:P:186:LEU:HD21	1:P:465:PHE:HZ	1.56	0.68
1:Q:268:LEU:HG	1:Q:280:SER:O	1.94	0.68
1:c:296:GLY:O	1:p:269:ARG:HG2	1.93	0.68
1:d:269:ARG:HG2	1:l:296:GLY:O	1.93	0.68
1:g:328:GLU:HG3	1:g:331:LYS:HD2	1.76	0.68
1:q:296:GLY:O	1:s:269:ARG:HG2	1.93	0.68
1:v:328:GLU:HG3	1:v:331:LYS:HD2	1.76	0.68
1:w:268:LEU:HG	1:w:280:SER:O	1.94	0.68
1:x:268:LEU:HG	1:x:280:SER:O	1.94	0.68
1:x:328:GLU:HG3	1:x:331:LYS:HD2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:328:GLU:HG3	1:A:331:LYS:HD2	1.76	0.68
1:C:328:GLU:HG3	1:C:331:LYS:HD2	1.76	0.68
1:F:296:GLY:O	1:Q:269:ARG:HG2	1.93	0.68
1:G:269:ARG:HG2	1:I:296:GLY:O	1.93	0.68
1:H:268:LEU:HG	1:H:280:SER:O	1.94	0.68
1:Q:328:GLU:HG3	1:Q:331:LYS:HD2	1.76	0.68
1:R:269:ARG:HG2	1:S:296:GLY:O	1.93	0.68
1:T:422:ASP:OD2	1:l:525:LYS:NZ	2.22	0.68
1:d:268:LEU:HG	1:d:280:SER:O	1.94	0.68
1:f:328:GLU:HG3	1:f:331:LYS:HD2	1.76	0.68
1:j:186:LEU:HD21	1:j:465:PHE:HZ	1.56	0.68
1:m:268:LEU:HG	1:m:280:SER:O	1.94	0.68
1:m:328:GLU:HG3	1:m:331:LYS:HD2	1.76	0.68
1:n:268:LEU:HG	1:n:280:SER:O	1.94	0.68
1:p:328:GLU:HG3	1:p:331:LYS:HD2	1.76	0.68
1:q:269:ARG:HG2	1:r:296:GLY:O	1.93	0.68
1:4:56:CYS:HB3	1:4:186:LEU:HD11	1.76	0.68
1:C:56:CYS:HB3	1:C:186:LEU:HD11	1.76	0.68
1:F:328:GLU:HG3	1:F:331:LYS:HD2	1.76	0.68
1:O:525:LYS:NZ	1:m:422:ASP:OD2	2.22	0.68
1:P:56:CYS:HB3	1:P:186:LEU:HD11	1.76	0.68
1:P:268:LEU:HG	1:P:280:SER:O	1.94	0.68
1:P:328:GLU:HG3	1:P:331:LYS:HD2	1.76	0.68
1:R:296:GLY:O	1:U:269:ARG:HG2	1.93	0.68
1:T:268:LEU:HG	1:T:280:SER:O	1.94	0.68
1:T:328:GLU:HG3	1:T:331:LYS:HD2	1.76	0.68
1:V:328:GLU:HG3	1:V:331:LYS:HD2	1.76	0.68
1:a:56:CYS:HB3	1:a:186:LEU:HD11	1.76	0.68
1:b:328:GLU:HG3	1:b:331:LYS:HD2	1.76	0.68
1:g:56:CYS:HB3	1:g:186:LEU:HD11	1.76	0.68
1:j:268:LEU:HG	1:j:280:SER:O	1.94	0.68
1:u:188:GLN:OE1	1:u:352:LYS:NZ	2.18	0.68
1:z:302:ASN:O	1:z:305:THR:OG1	2.08	0.68
1:1:268:LEU:HG	1:1:280:SER:O	1.94	0.68
1:2:302:ASN:O	1:2:305:THR:OG1	2.08	0.68
1:5:268:LEU:HG	1:5:280:SER:O	1.94	0.68
1:B:268:LEU:HG	1:B:280:SER:O	1.94	0.68
1:C:268:LEU:HG	1:C:280:SER:O	1.94	0.68
1:D:269:ARG:HG2	1:N:296:GLY:O	1.93	0.68
1:J:525:LYS:NZ	1:L:422:ASP:OD2	2.22	0.68
1:S:268:LEU:HG	1:S:280:SER:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:56:CYS:HB3	1:b:186:LEU:HD11	1.76	0.68
1:f:269:ARG:HG2	1:h:296:GLY:O	1.94	0.68
1:g:268:LEU:HG	1:g:280:SER:O	1.94	0.68
1:j:118:SER:O	1:j:246:ASN:N	2.23	0.68
1:j:328:GLU:HG3	1:j:331:LYS:HD2	1.76	0.68
1:x:56:CYS:HB3	1:x:186:LEU:HD11	1.76	0.68
1:x:269:ARG:HG2	1:y:296:GLY:O	1.93	0.68
1:3:56:CYS:HB3	1:3:186:LEU:HD11	1.76	0.68
1:8:268:LEU:HG	1:8:280:SER:O	1.94	0.68
1:A:268:LEU:HG	1:A:280:SER:O	1.94	0.67
1:A:302:ASN:O	1:A:305:THR:OG1	2.08	0.67
1:B:328:GLU:HG3	1:B:331:LYS:CD	2.25	0.67
1:E:328:GLU:HG3	1:E:331:LYS:HD2	1.76	0.67
1:I:268:LEU:HG	1:I:280:SER:O	1.94	0.67
1:I:328:GLU:HG3	1:I:331:LYS:CD	2.25	0.67
1:J:302:ASN:O	1:J:305:THR:OG1	2.08	0.67
1:K:268:LEU:HG	1:K:280:SER:O	1.94	0.67
1:L:302:ASN:O	1:L:305:THR:OG1	2.08	0.67
1:P:328:GLU:HG3	1:P:331:LYS:CD	2.25	0.67
1:Q:56:CYS:HB3	1:Q:186:LEU:HD11	1.76	0.67
1:U:268:LEU:HG	1:U:280:SER:O	1.94	0.67
1:Z:268:LEU:HG	1:Z:280:SER:O	1.94	0.67
1:f:56:CYS:HB3	1:f:186:LEU:HD11	1.76	0.67
1:j:56:CYS:HB3	1:j:186:LEU:HD11	1.76	0.67
1:r:268:LEU:HG	1:r:280:SER:O	1.94	0.67
1:r:269:ARG:HG2	1:s:296:GLY:O	1.93	0.67
1:t:422:ASP:OD2	1:v:525:LYS:NZ	2.22	0.67
1:8:328:GLU:HG3	1:8:331:LYS:HD2	1.76	0.67
1:B:328:GLU:HG3	1:B:331:LYS:HD2	1.76	0.67
1:F:302:ASN:O	1:F:305:THR:OG1	2.08	0.67
1:V:118:SER:O	1:V:246:ASN:N	2.23	0.67
1:W:328:GLU:HG3	1:W:331:LYS:CD	2.25	0.67
1:b:268:LEU:HG	1:b:280:SER:O	1.94	0.67
1:h:328:GLU:HG3	1:h:331:LYS:CD	2.25	0.67
1:i:269:ARG:HG2	1:j:296:GLY:O	1.94	0.67
1:p:268:LEU:HG	1:p:280:SER:O	1.94	0.67
1:r:56:CYS:HB3	1:r:186:LEU:HD11	1.76	0.67
1:s:268:LEU:HG	1:s:280:SER:O	1.94	0.67
1:u:268:LEU:HG	1:u:280:SER:O	1.94	0.67
1:u:328:GLU:HG3	1:u:331:LYS:CD	2.25	0.67
1:v:268:LEU:HG	1:v:280:SER:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:302:ASN:O	1:v:305:THR:OG1	2.08	0.67
1:y:328:GLU:HG3	1:y:331:LYS:HD2	1.76	0.67
1:1:328:GLU:HG3	1:1:331:LYS:CD	2.25	0.67
1:1:328:GLU:HG3	1:1:331:LYS:HD2	1.76	0.67
1:4:268:LEU:HG	1:4:280:SER:O	1.94	0.67
1:6:328:GLU:HG3	1:6:331:LYS:CD	2.25	0.67
1:B:56:CYS:HB3	1:B:186:LEU:HD11	1.76	0.67
1:G:268:LEU:HG	1:G:280:SER:O	1.94	0.67
1:I:188:GLN:OE1	1:I:352:LYS:NZ	2.18	0.67
1:L:268:LEU:HG	1:L:280:SER:O	1.94	0.67
1:M:188:GLN:OE1	1:M:352:LYS:NZ	2.18	0.67
1:M:296:GLY:O	1:b:269:ARG:HG2	1.94	0.67
1:N:269:ARG:HG2	1:P:296:GLY:O	1.93	0.67
1:O:328:GLU:HG3	1:O:331:LYS:CD	2.25	0.67
1:S:56:CYS:HB3	1:S:186:LEU:HD11	1.76	0.67
1:S:269:ARG:HG2	1:U:296:GLY:O	1.93	0.67
1:T:56:CYS:HB3	1:T:186:LEU:HD11	1.76	0.67
1:V:268:LEU:HG	1:V:280:SER:O	1.94	0.67
1:W:56:CYS:HB3	1:W:186:LEU:HD11	1.76	0.67
1:Y:328:GLU:HG3	1:Y:331:LYS:CD	2.25	0.67
1:Z:328:GLU:HG3	1:Z:331:LYS:HD2	1.76	0.67
1:c:268:LEU:HG	1:c:280:SER:O	1.94	0.67
1:e:268:LEU:HG	1:e:280:SER:O	1.94	0.67
1:f:268:LEU:HG	1:f:280:SER:O	1.94	0.67
1:i:296:GLY:O	1:k:269:ARG:HG2	1.94	0.67
1:j:328:GLU:HG3	1:j:331:LYS:CD	2.25	0.67
1:l:328:GLU:HG3	1:l:331:LYS:CD	2.25	0.67
1:s:118:SER:O	1:s:246:ASN:N	2.23	0.67
1:t:156:ILE:HG12	1:t:445:VAL:HG22	1.77	0.67
1:t:188:GLN:OE1	1:t:352:LYS:NZ	2.18	0.67
1:w:328:GLU:HG3	1:w:331:LYS:HD2	1.76	0.67
1:2:328:GLU:HG3	1:2:331:LYS:HD2	1.76	0.67
1:7:118:SER:O	1:7:246:ASN:N	2.23	0.67
1:7:328:GLU:HG3	1:7:331:LYS:CD	2.25	0.67
1:D:156:ILE:HG12	1:D:445:VAL:HG22	1.77	0.67
1:D:296:GLY:O	1:P:269:ARG:HG2	1.93	0.67
1:G:328:GLU:HG3	1:G:331:LYS:HD2	1.76	0.67
1:H:296:GLY:O	1:Y:269:ARG:HG2	1.93	0.67
1:M:328:GLU:HG3	1:M:331:LYS:CD	2.25	0.67
1:R:268:LEU:HG	1:R:280:SER:O	1.94	0.67
1:X:268:LEU:HG	1:X:280:SER:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:328:GLU:HG3	1:Y:331:LYS:HD2	1.76	0.67
1:f:156:ILE:HG12	1:f:445:VAL:HG22	1.77	0.67
1:m:56:CYS:HB3	1:m:186:LEU:HD11	1.76	0.67
1:m:328:GLU:HG3	1:m:331:LYS:CD	2.25	0.67
1:z:156:ILE:HG12	1:z:445:VAL:HG22	1.77	0.67
1:z:268:LEU:HG	1:z:280:SER:O	1.94	0.67
1:1:269:ARG:HG2	1:2:296:GLY:O	1.93	0.67
1:6:56:CYS:HB3	1:6:186:LEU:HD11	1.76	0.67
1:7:56:CYS:HB3	1:7:186:LEU:HD11	1.76	0.67
1:G:156:ILE:HG12	1:G:445:VAL:HG22	1.77	0.67
1:L:156:ILE:HG12	1:L:445:VAL:HG22	1.77	0.67
1:Q:328:GLU:HG3	1:Q:331:LYS:CD	2.25	0.67
1:S:156:ILE:HG12	1:S:445:VAL:HG22	1.77	0.67
1:T:328:GLU:HG3	1:T:331:LYS:CD	2.25	0.67
1:Y:56:CYS:HB3	1:Y:186:LEU:HD11	1.76	0.67
1:b:156:ILE:HG12	1:b:445:VAL:HG22	1.77	0.67
1:b:328:GLU:HG3	1:b:331:LYS:CD	2.25	0.67
1:d:328:GLU:HG3	1:d:331:LYS:CD	2.25	0.67
1:f:328:GLU:HG3	1:f:331:LYS:CD	2.25	0.67
1:o:268:LEU:HG	1:o:280:SER:O	1.94	0.67
1:p:118:SER:O	1:p:246:ASN:N	2.23	0.67
1:r:156:ILE:HG12	1:r:445:VAL:HG22	1.77	0.67
1:u:269:ARG:HG2	1:v:296:GLY:O	1.93	0.67
1:v:328:GLU:HG3	1:v:331:LYS:CD	2.25	0.67
1:z:328:GLU:HG3	1:z:331:LYS:CD	2.25	0.67
1:1:56:CYS:HB3	1:1:186:LEU:HD11	1.76	0.67
1:4:328:GLU:HG3	1:4:331:LYS:CD	2.25	0.67
1:5:296:GLY:O	1:7:269:ARG:HG2	1.93	0.67
1:7:328:GLU:HG3	1:7:331:LYS:HD2	1.76	0.67
1:A:328:GLU:HG3	1:A:331:LYS:CD	2.25	0.67
1:B:269:ARG:HG2	1:J:296:GLY:O	1.93	0.67
1:J:328:GLU:HG3	1:J:331:LYS:HD2	1.76	0.67
1:K:328:GLU:HG3	1:K:331:LYS:CD	2.25	0.67
1:U:118:SER:O	1:U:246:ASN:N	2.23	0.67
1:V:156:ILE:HG12	1:V:445:VAL:HG22	1.77	0.67
1:e:56:CYS:HB3	1:e:186:LEU:HD11	1.76	0.67
1:h:188:GLN:OE1	1:h:352:LYS:NZ	2.18	0.67
1:j:269:ARG:HG2	1:k:296:GLY:O	1.94	0.67
1:n:328:GLU:HG3	1:n:331:LYS:CD	2.25	0.67
1:p:156:ILE:HG12	1:p:445:VAL:HG22	1.77	0.67
1:q:268:LEU:HG	1:q:280:SER:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:268:LEU:HG	1:t:280:SER:O	1.94	0.67
1:t:328:GLU:HG3	1:t:331:LYS:HD2	1.76	0.67
1:v:156:ILE:HG12	1:v:445:VAL:HG22	1.77	0.67
1:w:56:CYS:HB3	1:w:186:LEU:HD11	1.76	0.67
1:x:328:GLU:HG3	1:x:331:LYS:CD	2.25	0.67
1:2:268:LEU:HG	1:2:280:SER:O	1.94	0.67
1:A:156:ILE:HG12	1:A:445:VAL:HG22	1.77	0.67
1:G:188:GLN:OE1	1:G:352:LYS:NZ	2.18	0.67
1:K:118:SER:O	1:K:246:ASN:N	2.23	0.67
1:L:328:GLU:HG3	1:L:331:LYS:CD	2.25	0.67
1:R:56:CYS:HB3	1:R:186:LEU:HD11	1.76	0.67
1:U:328:GLU:HG3	1:U:331:LYS:CD	2.25	0.67
1:Y:118:SER:O	1:Y:246:ASN:N	2.24	0.67
1:h:156:ILE:HG12	1:h:445:VAL:HG22	1.77	0.67
1:i:328:GLU:HG3	1:i:331:LYS:HD2	1.76	0.67
1:k:156:ILE:HG12	1:k:445:VAL:HG22	1.77	0.67
1:s:328:GLU:HG3	1:s:331:LYS:CD	2.25	0.67
1:4:118:SER:O	1:4:246:ASN:N	2.23	0.67
1:E:56:CYS:HB3	1:E:186:LEU:HD11	1.76	0.67
1:J:268:LEU:HG	1:J:280:SER:O	1.94	0.67
1:M:156:ILE:HG12	1:M:445:VAL:HG22	1.77	0.67
1:N:328:GLU:HG3	1:N:331:LYS:HD2	1.76	0.67
1:S:164:TYR:CZ	1:S:220:SER:OG	2.48	0.67
1:X:164:TYR:CZ	1:X:220:SER:OG	2.48	0.67
1:Z:156:ILE:HG12	1:Z:445:VAL:HG22	1.77	0.67
1:c:56:CYS:HB3	1:c:186:LEU:HD11	1.76	0.67
1:c:118:SER:O	1:c:246:ASN:N	2.23	0.67
1:c:188:GLN:OE1	1:c:352:LYS:NZ	2.18	0.67
1:p:56:CYS:HB3	1:p:186:LEU:HD11	1.76	0.67
1:r:164:TYR:CZ	1:r:220:SER:OG	2.48	0.67
1:2:328:GLU:HG3	1:2:331:LYS:CD	2.25	0.67
1:6:156:ILE:HG12	1:6:445:VAL:HG22	1.77	0.67
1:E:156:ILE:HG12	1:E:445:VAL:HG22	1.77	0.67
1:J:328:GLU:HG3	1:J:331:LYS:CD	2.25	0.67
1:K:296:GLY:O	1:8:269:ARG:HG2	1.94	0.67
1:K:302:ASN:O	1:K:305:THR:OG1	2.08	0.67
1:N:156:ILE:HG12	1:N:445:VAL:HG22	1.77	0.67
1:O:269:ARG:HG2	1:m:296:GLY:O	1.94	0.67
1:V:56:CYS:HB3	1:V:186:LEU:HD11	1.76	0.67
1:W:156:ILE:HG12	1:W:445:VAL:HG22	1.77	0.67
1:W:268:LEU:HG	1:W:280:SER:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:268:LEU:HG	1:h:280:SER:O	1.94	0.67
1:i:156:ILE:HG12	1:i:445:VAL:HG22	1.77	0.67
1:o:164:TYR:CZ	1:o:220:SER:OG	2.48	0.67
1:q:56:CYS:HB3	1:q:186:LEU:HD11	1.76	0.67
1:q:328:GLU:HG3	1:q:331:LYS:CD	2.25	0.67
1:z:56:CYS:HB3	1:z:186:LEU:HD11	1.76	0.67
1:2:56:CYS:HB3	1:2:186:LEU:HD11	1.76	0.67
1:2:329:ASN:OD1	1:2:517:GLN:HB2	1.95	0.67
1:5:156:ILE:HG12	1:5:445:VAL:HG22	1.77	0.67
1:8:156:ILE:HG12	1:8:445:VAL:HG22	1.77	0.67
1:A:525:LYS:NZ	1:G:422:ASP:OD2	2.21	0.67
1:D:56:CYS:HB3	1:D:186:LEU:HD11	1.76	0.67
1:N:164:TYR:CZ	1:N:220:SER:OG	2.48	0.67
1:O:268:LEU:HG	1:O:280:SER:O	1.94	0.67
1:R:156:ILE:HG12	1:R:445:VAL:HG22	1.77	0.67
1:R:328:GLU:HG3	1:R:331:LYS:CD	2.25	0.67
1:R:329:ASN:OD1	1:R:517:GLN:HB2	1.95	0.67
1:V:164:TYR:CZ	1:V:220:SER:OG	2.48	0.67
1:Z:93:TRP:CE2	1:Z:446:LYS:HD2	2.30	0.67
1:Z:269:ARG:HG2	1:4:296:GLY:O	1.94	0.67
1:b:164:TYR:CZ	1:b:220:SER:OG	2.48	0.67
1:c:156:ILE:HG12	1:c:445:VAL:HG22	1.77	0.67
1:e:156:ILE:HG12	1:e:445:VAL:HG22	1.77	0.67
1:f:164:TYR:CZ	1:f:220:SER:OG	2.48	0.67
1:i:164:TYR:CZ	1:i:220:SER:OG	2.48	0.67
1:j:93:TRP:CE2	1:j:446:LYS:HD2	2.31	0.67
1:k:56:CYS:HB3	1:k:186:LEU:HD11	1.76	0.67
1:k:268:LEU:HG	1:k:280:SER:O	1.94	0.67
1:q:156:ILE:HG12	1:q:445:VAL:HG22	1.77	0.67
1:q:329:ASN:OD1	1:q:517:GLN:HB2	1.95	0.67
1:w:156:ILE:HG12	1:w:445:VAL:HG22	1.77	0.67
1:w:329:ASN:OD1	1:w:517:GLN:HB2	1.95	0.67
1:x:118:SER:O	1:x:246:ASN:N	2.23	0.67
1:4:156:ILE:HG12	1:4:445:VAL:HG22	1.77	0.67
1:7:329:ASN:OD1	1:7:517:GLN:HB2	1.95	0.67
1:B:156:ILE:HG12	1:B:445:VAL:HG22	1.77	0.66
1:E:329:ASN:OD1	1:E:517:GLN:HB2	1.95	0.66
1:J:56:CYS:HB3	1:J:186:LEU:HD11	1.76	0.66
1:J:329:ASN:OD1	1:J:517:GLN:HB2	1.96	0.66
1:K:93:TRP:CE2	1:K:446:LYS:HD2	2.31	0.66
1:L:56:CYS:HB3	1:L:186:LEU:HD11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:93:TRP:CE2	1:M:446:LYS:HD2	2.31	0.66
1:M:268:LEU:HG	1:M:280:SER:O	1.94	0.66
1:M:329:ASN:OD1	1:M:517:GLN:HB2	1.95	0.66
1:M:422:ASP:OD2	1:b:525:LYS:NZ	2.22	0.66
1:P:93:TRP:CE2	1:P:446:LYS:HD2	2.31	0.66
1:T:188:GLN:OE1	1:T:352:LYS:NZ	2.18	0.66
1:W:329:ASN:OD1	1:W:517:GLN:HB2	1.96	0.66
1:X:93:TRP:CE2	1:X:446:LYS:HD2	2.31	0.66
1:Y:329:ASN:OD1	1:Y:517:GLN:HB2	1.96	0.66
1:e:118:SER:O	1:e:246:ASN:N	2.23	0.66
1:e:328:GLU:HG3	1:e:331:LYS:HD2	1.76	0.66
1:h:93:TRP:CE2	1:h:446:LYS:HD2	2.31	0.66
1:l:268:LEU:HG	1:l:280:SER:O	1.94	0.66
1:m:188:GLN:OE1	1:m:352:LYS:NZ	2.18	0.66
1:o:93:TRP:CE2	1:o:446:LYS:HD2	2.31	0.66
1:p:164:TYR:CZ	1:p:220:SER:OG	2.48	0.66
1:t:56:CYS:HB3	1:t:186:LEU:HD11	1.76	0.66
1:y:328:GLU:HG3	1:y:331:LYS:CD	2.25	0.66
1:4:93:TRP:CE2	1:4:446:LYS:HD2	2.31	0.66
1:6:268:LEU:HG	1:6:280:SER:O	1.94	0.66
1:6:329:ASN:OD1	1:6:517:GLN:HB2	1.96	0.66
1:8:93:TRP:CE2	1:8:446:LYS:HD2	2.31	0.66
1:C:93:TRP:CE2	1:C:446:LYS:HD2	2.31	0.66
1:D:268:LEU:HG	1:D:280:SER:O	1.94	0.66
1:D:329:ASN:OD1	1:D:517:GLN:HB2	1.96	0.66
1:F:328:GLU:HG3	1:F:331:LYS:CD	2.25	0.66
1:F:329:ASN:OD1	1:F:517:GLN:HB2	1.96	0.66
1:G:56:CYS:HB3	1:G:186:LEU:HD11	1.76	0.66
1:H:156:ILE:HG12	1:H:445:VAL:HG22	1.77	0.66
1:T:296:GLY:O	1:l:269:ARG:HG2	1.94	0.66
1:X:302:ASN:O	1:X:305:THR:OG1	2.08	0.66
1:Z:328:GLU:HG3	1:Z:331:LYS:CD	2.25	0.66
1:c:328:GLU:HG3	1:c:331:LYS:HD2	1.76	0.66
1:d:56:CYS:HB3	1:d:186:LEU:HD11	1.76	0.66
1:d:329:ASN:OD1	1:d:517:GLN:HB2	1.96	0.66
1:e:188:GLN:OE1	1:e:352:LYS:NZ	2.18	0.66
1:e:328:GLU:HG3	1:e:331:LYS:CD	2.25	0.66
1:g:93:TRP:CE2	1:g:446:LYS:HD2	2.31	0.66
1:h:329:ASN:OD1	1:h:517:GLN:HB2	1.95	0.66
1:k:329:ASN:OD1	1:k:517:GLN:HB2	1.96	0.66
1:t:525:LYS:NZ	1:u:422:ASP:OD2	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:156:ILE:HG12	1:x:445:VAL:HG22	1.77	0.66
1:y:93:TRP:CE2	1:y:446:LYS:HD2	2.31	0.66
1:y:329:ASN:OD1	1:y:517:GLN:HB2	1.96	0.66
1:3:329:ASN:OD1	1:3:517:GLN:HB2	1.96	0.66
1:4:302:ASN:O	1:4:305:THR:OG1	2.08	0.66
1:8:328:GLU:HG3	1:8:331:LYS:CD	2.25	0.66
1:F:93:TRP:CE2	1:F:446:LYS:HD2	2.31	0.66
1:G:164:TYR:CZ	1:G:220:SER:OG	2.48	0.66
1:H:188:GLN:OE1	1:H:352:LYS:NZ	2.18	0.66
1:K:156:ILE:HG12	1:K:445:VAL:HG22	1.77	0.66
1:Q:118:SER:O	1:Q:246:ASN:N	2.23	0.66
1:Q:156:ILE:HG12	1:Q:445:VAL:HG22	1.77	0.66
1:c:328:GLU:HG3	1:c:331:LYS:CD	2.25	0.66
1:n:329:ASN:OD1	1:n:517:GLN:HB2	1.96	0.66
1:o:302:ASN:O	1:o:305:THR:OG1	2.08	0.66
1:s:329:ASN:OD1	1:s:517:GLN:HB2	1.96	0.66
1:t:328:GLU:HG3	1:t:331:LYS:CD	2.25	0.66
1:1:156:ILE:HG12	1:1:445:VAL:HG22	1.77	0.66
1:B:329:ASN:OD1	1:B:517:GLN:HB2	1.95	0.66
1:C:302:ASN:O	1:C:305:THR:OG1	2.08	0.66
1:G:328:GLU:HG3	1:G:331:LYS:CD	2.25	0.66
1:H:93:TRP:CE2	1:H:446:LYS:HD2	2.31	0.66
1:K:329:ASN:OD1	1:K:517:GLN:HB2	1.96	0.66
1:L:164:TYR:CZ	1:L:220:SER:OG	2.48	0.66
1:U:329:ASN:OD1	1:U:517:GLN:HB2	1.96	0.66
1:V:93:TRP:CE2	1:V:446:LYS:HD2	2.31	0.66
1:V:327:ALA:HB2	1:V:377:ARG:NH2	2.11	0.66
1:W:327:ALA:HB2	1:W:377:ARG:NH2	2.11	0.66
1:X:328:GLU:HG3	1:X:331:LYS:HD2	1.76	0.66
1:a:329:ASN:OD1	1:a:517:GLN:HB2	1.96	0.66
1:b:329:ASN:OD1	1:b:517:GLN:HB2	1.96	0.66
1:d:328:GLU:HG3	1:d:331:LYS:HD2	1.76	0.66
1:f:329:ASN:OD1	1:f:517:GLN:HB2	1.96	0.66
1:i:329:ASN:OD1	1:i:517:GLN:HB2	1.95	0.66
1:j:156:ILE:HG12	1:j:445:VAL:HG22	1.77	0.66
1:o:56:CYS:HB3	1:o:186:LEU:HD11	1.76	0.66
1:p:93:TRP:CE2	1:p:446:LYS:HD2	2.31	0.66
1:p:327:ALA:HB2	1:p:377:ARG:NH2	2.11	0.66
1:u:56:CYS:HB3	1:u:186:LEU:HD11	1.76	0.66
1:x:93:TRP:CE2	1:x:446:LYS:HD2	2.31	0.66
1:x:164:TYR:CZ	1:x:220:SER:OG	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:164:TYR:CZ	1:z:220:SER:OG	2.48	0.66
1:5:328:GLU:HG3	1:5:331:LYS:CD	2.25	0.66
1:6:327:ALA:HB2	1:6:377:ARG:NH2	2.11	0.66
1:7:327:ALA:HB2	1:7:377:ARG:NH2	2.11	0.66
1:A:329:ASN:OD1	1:A:517:GLN:HB2	1.96	0.66
1:D:164:TYR:CZ	1:D:220:SER:OG	2.48	0.66
1:E:188:GLN:OE1	1:E:352:LYS:NZ	2.18	0.66
1:E:328:GLU:HG3	1:E:331:LYS:CD	2.25	0.66
1:G:329:ASN:OD1	1:G:517:GLN:HB2	1.95	0.66
1:H:56:CYS:HB3	1:H:186:LEU:HD11	1.76	0.66
1:H:328:GLU:HG3	1:H:331:LYS:CD	2.25	0.66
1:I:164:TYR:CZ	1:I:220:SER:OG	2.48	0.66
1:K:164:TYR:CZ	1:K:220:SER:OG	2.48	0.66
1:N:93:TRP:CE2	1:N:446:LYS:HD2	2.31	0.66
1:O:164:TYR:CZ	1:O:220:SER:OG	2.48	0.66
1:P:156:ILE:HG12	1:P:445:VAL:HG22	1.77	0.66
1:Q:93:TRP:CE2	1:Q:446:LYS:HD2	2.31	0.66
1:Q:164:TYR:CZ	1:Q:220:SER:OG	2.48	0.66
1:T:156:ILE:HG12	1:T:445:VAL:HG22	1.77	0.66
1:T:327:ALA:HB2	1:T:377:ARG:NH2	2.11	0.66
1:X:327:ALA:HB2	1:X:377:ARG:NH2	2.11	0.66
1:Y:327:ALA:HB2	1:Y:377:ARG:NH2	2.11	0.66
1:Z:329:ASN:OD1	1:Z:517:GLN:HB2	1.96	0.66
1:a:328:GLU:HG3	1:a:331:LYS:CD	2.25	0.66
1:f:525:LYS:NZ	1:h:422:ASP:OD2	2.22	0.66
1:i:93:TRP:CE2	1:i:446:LYS:HD2	2.31	0.66
1:m:156:ILE:HG12	1:m:445:VAL:HG22	1.77	0.66
1:n:56:CYS:HB3	1:n:186:LEU:HD11	1.76	0.66
1:n:328:GLU:HG3	1:n:331:LYS:HD2	1.76	0.66
1:o:327:ALA:HB2	1:o:377:ARG:NH2	2.11	0.66
1:o:328:GLU:HG3	1:o:331:LYS:HD2	1.76	0.66
1:r:328:GLU:HG3	1:r:331:LYS:CD	2.25	0.66
1:t:164:TYR:CZ	1:t:220:SER:OG	2.48	0.66
1:t:269:ARG:HG2	1:u:296:GLY:O	1.95	0.66
1:v:93:TRP:CE2	1:v:446:LYS:HD2	2.31	0.66
1:v:329:ASN:OD1	1:v:517:GLN:HB2	1.96	0.66
1:1:329:ASN:OD1	1:1:517:GLN:HB2	1.95	0.66
1:3:328:GLU:HG3	1:3:331:LYS:CD	2.25	0.66
1:4:329:ASN:OD1	1:4:517:GLN:HB2	1.96	0.66
1:5:93:TRP:CE2	1:5:446:LYS:HD2	2.31	0.66
1:5:188:GLN:OE1	1:5:352:LYS:NZ	2.18	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:56:CYS:HB3	1:A:186:LEU:HD11	1.76	0.66
1:B:327:ALA:HB2	1:B:377:ARG:NH2	2.11	0.66
1:B:422:ASP:OD2	1:L:525:LYS:NZ	2.22	0.66
1:C:328:GLU:HG3	1:C:331:LYS:CD	2.25	0.66
1:D:328:GLU:HG3	1:D:331:LYS:CD	2.25	0.66
1:I:56:CYS:HB3	1:I:186:LEU:HD11	1.76	0.66
1:I:328:GLU:HG3	1:I:331:LYS:HD2	1.76	0.66
1:J:327:ALA:HB2	1:J:377:ARG:NH2	2.11	0.66
1:M:56:CYS:HB3	1:M:186:LEU:HD11	1.76	0.66
1:N:329:ASN:OD1	1:N:517:GLN:HB2	1.96	0.66
1:S:328:GLU:HG3	1:S:331:LYS:CD	2.25	0.66
1:T:164:TYR:CZ	1:T:220:SER:OG	2.48	0.66
1:X:328:GLU:HG3	1:X:331:LYS:CD	2.25	0.66
1:Z:525:LYS:NZ	1:4:422:ASP:OD2	2.22	0.66
1:e:329:ASN:OD1	1:e:517:GLN:HB2	1.96	0.66
1:g:328:GLU:HG3	1:g:331:LYS:CD	2.25	0.66
1:h:118:SER:O	1:h:246:ASN:N	2.23	0.66
1:k:164:TYR:CZ	1:k:220:SER:OG	2.48	0.66
1:l:164:TYR:CZ	1:l:220:SER:OG	2.48	0.66
1:m:327:ALA:HB2	1:m:377:ARG:NH2	2.11	0.66
1:r:302:ASN:O	1:r:305:THR:OG1	2.08	0.66
1:u:164:TYR:CZ	1:u:220:SER:OG	2.48	0.66
1:u:328:GLU:HG3	1:u:331:LYS:HD2	1.76	0.66
1:v:56:CYS:HB3	1:v:186:LEU:HD11	1.76	0.66
1:1:327:ALA:HB2	1:1:377:ARG:NH2	2.11	0.66
1:2:327:ALA:HB2	1:2:377:ARG:NH2	2.11	0.66
1:4:164:TYR:CZ	1:4:220:SER:OG	2.48	0.66
1:5:56:CYS:HB3	1:5:186:LEU:HD11	1.76	0.66
1:6:93:TRP:CE2	1:6:446:LYS:HD2	2.31	0.66
1:A:93:TRP:CE2	1:A:446:LYS:HD2	2.31	0.66
1:B:93:TRP:CE2	1:B:446:LYS:HD2	2.31	0.66
1:E:164:TYR:CZ	1:E:220:SER:OG	2.48	0.66
1:F:268:LEU:HG	1:F:280:SER:O	1.94	0.66
1:I:93:TRP:CE2	1:I:446:LYS:HD2	2.31	0.66
1:J:93:TRP:CE2	1:J:446:LYS:HD2	2.31	0.66
1:M:118:SER:O	1:M:246:ASN:N	2.23	0.66
1:N:56:CYS:HB3	1:N:186:LEU:HD11	1.76	0.66
1:R:93:TRP:CE2	1:R:446:LYS:HD2	2.30	0.66
1:R:327:ALA:HB2	1:R:377:ARG:NH2	2.11	0.66
1:W:93:TRP:CE2	1:W:446:LYS:HD2	2.31	0.66
1:X:56:CYS:HB3	1:X:186:LEU:HD11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:329:ASN:OD1	1:X:517:GLN:HB2	1.95	0.66
1:c:327:ALA:HB2	1:c:377:ARG:NH2	2.11	0.66
1:c:329:ASN:OD1	1:c:517:GLN:HB2	1.96	0.66
1:e:327:ALA:HB2	1:e:377:ARG:NH2	2.11	0.66
1:g:422:ASP:OD2	1:h:525:LYS:NZ	2.22	0.66
1:i:56:CYS:HB3	1:i:186:LEU:HD11	1.76	0.66
1:j:525:LYS:NZ	1:k:422:ASP:OD2	2.22	0.66
1:k:328:GLU:HG3	1:k:331:LYS:CD	2.25	0.66
1:m:164:TYR:CZ	1:m:220:SER:OG	2.48	0.66
1:n:156:ILE:HG12	1:n:445:VAL:HG22	1.77	0.66
1:o:328:GLU:HG3	1:o:331:LYS:CD	2.25	0.66
1:q:93:TRP:CE2	1:q:446:LYS:HD2	2.30	0.66
1:q:327:ALA:HB2	1:q:377:ARG:NH2	2.11	0.66
1:t:165:PRO:HB3	1:v:251:ILE:HD11	1.77	0.66
1:t:329:ASN:OD1	1:t:517:GLN:HB2	1.96	0.66
1:u:93:TRP:CE2	1:u:446:LYS:HD2	2.31	0.66
1:u:525:LYS:NZ	1:v:422:ASP:OD2	2.22	0.66
1:w:328:GLU:HG3	1:w:331:LYS:CD	2.25	0.66
1:8:329:ASN:OD1	1:8:517:GLN:HB2	1.96	0.66
1:C:164:TYR:CZ	1:C:220:SER:OG	2.48	0.66
1:C:329:ASN:OD1	1:C:517:GLN:HB2	1.95	0.66
1:V:328:GLU:HG3	1:V:331:LYS:CD	2.25	0.66
1:Z:327:ALA:HB2	1:Z:377:ARG:NH2	2.11	0.66
1:g:302:ASN:O	1:g:305:THR:OG1	2.08	0.66
1:h:56:CYS:HB3	1:h:186:LEU:HD11	1.76	0.66
1:h:164:TYR:CZ	1:h:220:SER:OG	2.48	0.66
1:l:329:ASN:OD1	1:l:517:GLN:HB2	1.96	0.66
1:o:329:ASN:OD1	1:o:517:GLN:HB2	1.95	0.66
1:t:93:TRP:CE2	1:t:446:LYS:HD2	2.31	0.66
1:w:188:GLN:OE1	1:w:352:LYS:NZ	2.18	0.66
1:1:93:TRP:CE2	1:1:446:LYS:HD2	2.31	0.66
1:2:93:TRP:CE2	1:2:446:LYS:HD2	2.31	0.66
1:8:56:CYS:HB3	1:8:186:LEU:HD11	1.76	0.66
1:8:327:ALA:HB2	1:8:377:ARG:NH2	2.11	0.66
1:A:269:ARG:HG2	1:G:296:GLY:O	1.96	0.66
1:D:302:ASN:O	1:D:305:THR:OG1	2.08	0.66
1:D:422:ASP:OD2	1:P:525:LYS:NZ	2.22	0.66
1:E:93:TRP:CE2	1:E:446:LYS:HD2	2.31	0.66
1:F:56:CYS:HB3	1:F:186:LEU:HD11	1.76	0.66
1:G:93:TRP:CE2	1:G:446:LYS:HD2	2.31	0.66
1:H:164:TYR:CZ	1:H:220:SER:OG	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:93:TRP:CE2	1:L:446:LYS:HD2	2.31	0.66
1:L:329:ASN:OD1	1:L:517:GLN:HB2	1.96	0.66
1:M:164:TYR:CZ	1:M:220:SER:OG	2.48	0.66
1:M:328:GLU:HG3	1:M:331:LYS:HD2	1.76	0.66
1:O:329:ASN:OD1	1:O:517:GLN:HB2	1.96	0.66
1:Y:93:TRP:CE2	1:Y:446:LYS:HD2	2.31	0.66
1:d:156:ILE:HG12	1:d:445:VAL:HG22	1.77	0.66
1:d:164:TYR:CZ	1:d:220:SER:OG	2.48	0.66
1:d:327:ALA:HB2	1:d:377:ARG:NH2	2.11	0.66
1:f:327:ALA:HB2	1:f:377:ARG:NH2	2.11	0.66
1:g:164:TYR:CZ	1:g:220:SER:OG	2.48	0.66
1:h:328:GLU:HG3	1:h:331:LYS:HD2	1.76	0.66
1:i:328:GLU:HG3	1:i:331:LYS:CD	2.25	0.66
1:j:329:ASN:OD1	1:j:517:GLN:HB2	1.96	0.66
1:l:93:TRP:CE2	1:l:446:LYS:HD2	2.31	0.66
1:p:328:GLU:HG3	1:p:331:LYS:CD	2.25	0.66
1:w:164:TYR:CZ	1:w:220:SER:OG	2.48	0.66
1:z:328:GLU:HG3	1:z:331:LYS:HD2	1.76	0.66
1:2:156:ILE:HG12	1:2:445:VAL:HG22	1.77	0.66
1:5:328:GLU:HG3	1:5:331:LYS:HD2	1.76	0.66
1:7:93:TRP:CE2	1:7:446:LYS:HD2	2.31	0.66
1:B:164:TYR:CZ	1:B:220:SER:OG	2.48	0.66
1:D:118:SER:O	1:D:246:ASN:N	2.24	0.66
1:H:328:GLU:HG3	1:H:331:LYS:HD2	1.76	0.66
1:J:156:ILE:HG12	1:J:445:VAL:HG22	1.77	0.66
1:K:422:ASP:OD2	1:8:525:LYS:NZ	2.22	0.66
1:N:328:GLU:HG3	1:N:331:LYS:CD	2.25	0.66
1:O:93:TRP:CE2	1:O:446:LYS:HD2	2.30	0.66
1:P:327:ALA:HB2	1:P:377:ARG:NH2	2.11	0.66
1:P:329:ASN:OD1	1:P:517:GLN:HB2	1.96	0.66
1:R:525:LYS:NZ	1:S:422:ASP:OD2	2.22	0.66
1:b:327:ALA:HB2	1:b:377:ARG:NH2	2.11	0.66
1:c:164:TYR:CZ	1:c:220:SER:OG	2.48	0.66
1:e:164:TYR:CZ	1:e:220:SER:OG	2.48	0.66
1:g:327:ALA:HB2	1:g:377:ARG:NH2	2.11	0.66
1:g:329:ASN:OD1	1:g:517:GLN:HB2	1.95	0.66
1:j:327:ALA:HB2	1:j:377:ARG:NH2	2.11	0.66
1:k:93:TRP:CE2	1:k:446:LYS:HD2	2.31	0.66
1:k:118:SER:O	1:k:246:ASN:N	2.23	0.66
1:m:93:TRP:CE2	1:m:446:LYS:HD2	2.31	0.66
1:n:164:TYR:CZ	1:n:220:SER:OG	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:156:ILE:HG12	1:s:445:VAL:HG22	1.77	0.66
1:w:93:TRP:CE2	1:w:446:LYS:HD2	2.31	0.66
1:y:268:LEU:HG	1:y:280:SER:O	1.94	0.66
1:y:327:ALA:HB2	1:y:377:ARG:NH2	2.11	0.66
1:z:329:ASN:OD1	1:z:517:GLN:HB2	1.96	0.66
1:3:93:TRP:CE2	1:3:446:LYS:HD2	2.31	0.66
1:5:164:TYR:CZ	1:5:220:SER:OG	2.48	0.66
1:6:164:TYR:CZ	1:6:220:SER:OG	2.48	0.66
1:C:118:SER:O	1:C:246:ASN:N	2.23	0.65
1:C:327:ALA:HB2	1:C:377:ARG:NH2	2.11	0.65
1:D:93:TRP:CE2	1:D:446:LYS:HD2	2.31	0.65
1:F:327:ALA:HB2	1:F:377:ARG:NH2	2.11	0.65
1:G:327:ALA:HB2	1:G:377:ARG:NH2	2.11	0.65
1:I:156:ILE:HG12	1:I:445:VAL:HG22	1.77	0.65
1:L:328:GLU:HG3	1:L:331:LYS:HD2	1.76	0.65
1:N:268:LEU:HG	1:N:280:SER:O	1.94	0.65
1:N:327:ALA:HB2	1:N:377:ARG:NH2	2.11	0.65
1:S:329:ASN:OD1	1:S:517:GLN:HB2	1.95	0.65
1:U:156:ILE:HG12	1:U:445:VAL:HG22	1.77	0.65
1:V:188:GLN:OE1	1:V:352:LYS:NZ	2.18	0.65
1:a:93:TRP:CE2	1:a:446:LYS:HD2	2.31	0.65
1:a:327:ALA:HB2	1:a:377:ARG:NH2	2.11	0.65
1:d:93:TRP:CE2	1:d:446:LYS:HD2	2.30	0.65
1:i:268:LEU:HG	1:i:280:SER:O	1.94	0.65
1:i:327:ALA:HB2	1:i:377:ARG:NH2	2.11	0.65
1:n:327:ALA:HB2	1:n:377:ARG:NH2	2.11	0.65
1:r:327:ALA:HB2	1:r:377:ARG:NH2	2.11	0.65
1:r:329:ASN:OD1	1:r:517:GLN:HB2	1.95	0.65
1:s:93:TRP:CE2	1:s:446:LYS:HD2	2.31	0.65
1:u:329:ASN:OD1	1:u:517:GLN:HB2	1.96	0.65
1:y:56:CYS:HB3	1:y:186:LEU:HD11	1.76	0.65
1:z:93:TRP:CE2	1:z:446:LYS:HD2	2.31	0.65
1:1:164:TYR:CZ	1:1:220:SER:OG	2.48	0.65
1:3:327:ALA:HB2	1:3:377:ARG:NH2	2.11	0.65
1:A:251:ILE:HD11	1:G:165:PRO:HB3	1.78	0.65
1:C:422:ASP:OD2	1:M:525:LYS:NZ	2.22	0.65
1:G:525:LYS:NZ	1:I:422:ASP:OD2	2.22	0.65
1:H:327:ALA:HB2	1:H:377:ARG:NH2	2.11	0.65
1:K:327:ALA:HB2	1:K:377:ARG:NH2	2.11	0.65
1:O:56:CYS:HB3	1:O:186:LEU:HD11	1.76	0.65
1:O:327:ALA:HB2	1:O:377:ARG:NH2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:329:ASN:OD1	1:Q:517:GLN:HB2	1.96	0.65
1:T:93:TRP:CE2	1:T:446:LYS:HD2	2.31	0.65
1:U:93:TRP:CE2	1:U:446:LYS:HD2	2.31	0.65
1:U:328:GLU:HG3	1:U:331:LYS:HD2	1.76	0.65
1:Z:56:CYS:HB3	1:Z:186:LEU:HD11	1.76	0.65
1:d:118:SER:O	1:d:246:ASN:N	2.23	0.65
1:k:302:ASN:O	1:k:305:THR:OG1	2.08	0.65
1:l:56:CYS:HB3	1:l:186:LEU:HD11	1.76	0.65
1:q:525:LYS:NZ	1:r:422:ASP:OD2	2.22	0.65
1:u:156:ILE:HG12	1:u:445:VAL:HG22	1.77	0.65
1:x:329:ASN:OD1	1:x:517:GLN:HB2	1.96	0.65
1:C:156:ILE:HG12	1:C:445:VAL:HG22	1.77	0.65
1:E:327:ALA:HB2	1:E:377:ARG:NH2	2.11	0.65
1:I:329:ASN:OD1	1:I:517:GLN:HB2	1.96	0.65
1:S:327:ALA:HB2	1:S:377:ARG:NH2	2.11	0.65
1:b:93:TRP:CE2	1:b:446:LYS:HD2	2.31	0.65
1:f:93:TRP:CE2	1:f:446:LYS:HD2	2.31	0.65
1:g:156:ILE:HG12	1:g:445:VAL:HG22	1.77	0.65
1:h:327:ALA:HB2	1:h:377:ARG:NH2	2.11	0.65
1:j:188:GLN:OE1	1:j:352:LYS:NZ	2.18	0.65
1:l:327:ALA:HB2	1:l:377:ARG:NH2	2.11	0.65
1:n:93:TRP:CE2	1:n:446:LYS:HD2	2.30	0.65
1:s:328:GLU:HG3	1:s:331:LYS:HD2	1.76	0.65
1:t:327:ALA:HB2	1:t:377:ARG:NH2	2.11	0.65
1:w:327:ALA:HB2	1:w:377:ARG:NH2	2.11	0.65
1:w:422:ASP:OD2	1:y:525:LYS:NZ	2.22	0.65
1:y:118:SER:O	1:y:246:ASN:N	2.23	0.65
1:z:327:ALA:HB2	1:z:377:ARG:NH2	2.11	0.65
1:4:327:ALA:HB2	1:4:377:ARG:NH2	2.11	0.65
1:5:327:ALA:HB2	1:5:377:ARG:NH2	2.11	0.65
1:7:156:ILE:HG12	1:7:445:VAL:HG22	1.77	0.65
1:A:164:TYR:CZ	1:A:220:SER:OG	2.48	0.65
1:C:188:GLN:OE1	1:C:352:LYS:NZ	2.18	0.65
1:C:216:CYS:O	1:C:219:GLU:HG2	1.97	0.65
1:E:422:ASP:OD2	1:F:525:LYS:NZ	2.22	0.65
1:F:118:SER:O	1:F:246:ASN:N	2.23	0.65
1:F:156:ILE:HG12	1:F:445:VAL:HG22	1.77	0.65
1:G:216:CYS:O	1:G:219:GLU:HG2	1.97	0.65
1:M:327:ALA:HB2	1:M:377:ARG:NH2	2.11	0.65
1:P:188:GLN:OE1	1:P:352:LYS:NZ	2.18	0.65
1:g:118:SER:O	1:g:246:ASN:N	2.23	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:216:CYS:O	1:g:219:GLU:HG2	1.97	0.65
1:n:118:SER:O	1:n:246:ASN:N	2.23	0.65
1:p:329:ASN:OD1	1:p:517:GLN:HB2	1.95	0.65
1:t:251:ILE:HD11	1:u:165:PRO:HB3	1.79	0.65
1:A:327:ALA:HB2	1:A:377:ARG:NH2	2.11	0.65
1:D:327:ALA:HB2	1:D:377:ARG:NH2	2.11	0.65
1:M:165:PRO:HB3	1:b:251:ILE:HD11	1.79	0.65
1:R:251:ILE:HD11	1:S:165:PRO:HB3	1.79	0.65
1:V:329:ASN:OD1	1:V:517:GLN:HB2	1.95	0.65
1:Z:164:TYR:CZ	1:Z:220:SER:OG	2.48	0.65
1:a:156:ILE:HG12	1:a:445:VAL:HG22	1.77	0.65
1:c:93:TRP:CE2	1:c:446:LYS:HD2	2.31	0.65
1:f:251:ILE:HD11	1:h:165:PRO:HB3	1.79	0.65
1:p:188:GLN:OE1	1:p:352:LYS:NZ	2.18	0.65
1:q:251:ILE:HD11	1:r:165:PRO:HB3	1.79	0.65
1:s:302:ASN:O	1:s:305:THR:OG1	2.08	0.65
1:t:216:CYS:O	1:t:219:GLU:HG2	1.97	0.65
1:y:156:ILE:HG12	1:y:445:VAL:HG22	1.77	0.65
1:A:268:LEU:CD1	1:G:317:GLY:HA3	2.27	0.65
1:D:188:GLN:OE1	1:D:352:LYS:NZ	2.18	0.65
1:D:251:ILE:HD11	1:N:165:PRO:HB3	1.79	0.65
1:I:327:ALA:HB2	1:I:377:ARG:NH2	2.11	0.65
1:J:164:TYR:CZ	1:J:220:SER:OG	2.48	0.65
1:L:327:ALA:HB2	1:L:377:ARG:NH2	2.11	0.65
1:N:216:CYS:O	1:N:219:GLU:HG2	1.97	0.65
1:S:93:TRP:CE2	1:S:446:LYS:HD2	2.31	0.65
1:U:56:CYS:HB3	1:U:186:LEU:HD11	1.76	0.65
1:X:156:ILE:HG12	1:X:445:VAL:HG22	1.77	0.65
1:X:216:CYS:O	1:X:219:GLU:HG2	1.97	0.65
1:Y:156:ILE:HG12	1:Y:445:VAL:HG22	1.77	0.65
1:d:251:ILE:HD11	1:l:165:PRO:HB3	1.79	0.65
1:k:327:ALA:HB2	1:k:377:ARG:NH2	2.11	0.65
1:m:216:CYS:O	1:m:219:GLU:HG2	1.97	0.65
1:r:93:TRP:CE2	1:r:446:LYS:HD2	2.31	0.65
1:s:56:CYS:HB3	1:s:186:LEU:HD11	1.76	0.65
1:u:118:SER:O	1:u:246:ASN:N	2.23	0.65
1:v:164:TYR:CZ	1:v:220:SER:OG	2.48	0.65
1:2:164:TYR:CZ	1:2:220:SER:OG	2.48	0.65
1:8:164:TYR:CZ	1:8:220:SER:OG	2.48	0.65
1:L:216:CYS:O	1:L:219:GLU:HG2	1.97	0.65
1:T:216:CYS:O	1:T:219:GLU:HG2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:302:ASN:O	1:U:305:THR:OG1	2.08	0.65
1:U:327:ALA:HB2	1:U:377:ARG:NH2	2.11	0.65
1:V:525:LYS:NZ	1:e:422:ASP:OD2	2.22	0.65
1:W:216:CYS:O	1:W:219:GLU:HG2	1.97	0.65
1:d:216:CYS:O	1:d:219:GLU:HG2	1.97	0.65
1:e:93:TRP:CE2	1:e:446:LYS:HD2	2.31	0.65
1:g:188:GLN:OE1	1:g:352:LYS:NZ	2.18	0.65
1:i:216:CYS:O	1:i:219:GLU:HG2	1.97	0.65
1:k:188:GLN:OE1	1:k:352:LYS:NZ	2.18	0.65
1:n:216:CYS:O	1:n:219:GLU:HG2	1.97	0.65
1:o:156:ILE:HG12	1:o:445:VAL:HG22	1.77	0.65
1:o:216:CYS:O	1:o:219:GLU:HG2	1.97	0.65
1:u:327:ALA:HB2	1:u:377:ARG:NH2	2.11	0.65
1:v:327:ALA:HB2	1:v:377:ARG:NH2	2.11	0.65
1:z:216:CYS:O	1:z:219:GLU:HG2	1.97	0.65
1:3:156:ILE:HG12	1:3:445:VAL:HG22	1.77	0.65
1:6:216:CYS:O	1:6:219:GLU:HG2	1.97	0.65
1:8:216:CYS:O	1:8:219:GLU:HG2	1.97	0.65
1:B:216:CYS:O	1:B:219:GLU:HG2	1.97	0.65
1:F:216:CYS:O	1:F:219:GLU:HG2	1.97	0.65
1:G:251:ILE:HD11	1:I:165:PRO:HB3	1.79	0.65
1:N:251:ILE:HD11	1:P:165:PRO:HB3	1.79	0.65
1:O:156:ILE:HG12	1:O:445:VAL:HG22	1.77	0.65
1:O:165:PRO:HB3	1:n:251:ILE:HD11	1.79	0.65
1:P:216:CYS:O	1:P:219:GLU:HG2	1.97	0.65
1:T:329:ASN:OD1	1:T:517:GLN:HB2	1.95	0.65
1:W:164:TYR:CZ	1:W:220:SER:OG	2.48	0.65
1:Z:216:CYS:O	1:Z:219:GLU:HG2	1.97	0.65
1:i:165:PRO:HB3	1:k:251:ILE:HD11	1.79	0.65
1:i:251:ILE:HD11	1:j:165:PRO:HB3	1.79	0.65
1:j:216:CYS:O	1:j:219:GLU:HG2	1.97	0.65
1:k:216:CYS:O	1:k:219:GLU:HG2	1.97	0.65
1:s:164:TYR:CZ	1:s:220:SER:OG	2.48	0.65
1:y:216:CYS:O	1:y:219:GLU:HG2	1.97	0.65
1:5:251:ILE:HD11	1:6:165:PRO:HB3	1.79	0.65
1:D:216:CYS:O	1:D:219:GLU:HG2	1.97	0.65
1:H:251:ILE:HD11	1:W:165:PRO:HB3	1.79	0.65
1:M:216:CYS:O	1:M:219:GLU:HG2	1.97	0.65
1:U:164:TYR:CZ	1:U:220:SER:OG	2.48	0.65
1:a:216:CYS:O	1:a:219:GLU:HG2	1.97	0.65
1:h:216:CYS:O	1:h:219:GLU:HG2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:327:ALA:HB2	1:s:377:ARG:NH2	2.11	0.65
1:x:216:CYS:O	1:x:219:GLU:HG2	1.97	0.65
1:B:165:PRO:HB3	1:L:251:ILE:HD11	1.79	0.65
1:I:118:SER:O	1:I:246:ASN:N	2.23	0.65
1:c:422:ASP:OD2	1:p:525:LYS:NZ	2.22	0.65
1:f:216:CYS:O	1:f:219:GLU:HG2	1.97	0.65
1:j:251:ILE:HD11	1:k:165:PRO:HB3	1.79	0.65
1:m:329:ASN:OD1	1:m:517:GLN:HB2	1.96	0.65
1:1:216:CYS:O	1:1:219:GLU:HG2	1.97	0.65
1:3:216:CYS:O	1:3:219:GLU:HG2	1.97	0.65
1:5:329:ASN:OD1	1:5:517:GLN:HB2	1.95	0.65
1:D:165:PRO:HB3	1:P:251:ILE:HD11	1.79	0.64
1:H:165:PRO:HB3	1:Y:251:ILE:HD11	1.79	0.64
1:K:216:CYS:O	1:K:219:GLU:HG2	1.97	0.64
1:O:251:ILE:HD11	1:m:165:PRO:HB3	1.79	0.64
1:Q:216:CYS:O	1:Q:219:GLU:HG2	1.97	0.64
1:T:165:PRO:HB3	1:l:251:ILE:HD11	1.79	0.64
1:T:417:GLU:OE1	1:T:439:ALA:HB3	1.98	0.64
1:V:216:CYS:O	1:V:219:GLU:HG2	1.97	0.64
1:Z:165:PRO:HB3	1:3:251:ILE:HD11	1.79	0.64
1:b:216:CYS:O	1:b:219:GLU:HG2	1.97	0.64
1:p:216:CYS:O	1:p:219:GLU:HG2	1.97	0.64
1:x:327:ALA:HB2	1:x:377:ARG:NH2	2.11	0.64
1:4:216:CYS:O	1:4:219:GLU:HG2	1.97	0.64
1:5:165:PRO:HB3	1:7:251:ILE:HD11	1.79	0.64
1:A:216:CYS:O	1:A:219:GLU:HG2	1.97	0.64
1:A:422:ASP:OD2	1:I:525:LYS:NZ	2.22	0.64
1:E:251:ILE:HD11	1:Q:165:PRO:HB3	1.79	0.64
1:H:329:ASN:OD1	1:H:517:GLN:HB2	1.96	0.64
1:a:251:ILE:HD11	1:8:165:PRO:HB3	1.79	0.64
1:i:108:ARG:HD2	1:l:480:PHE:O	1.98	0.64
1:l:156:ILE:HG12	1:l:445:VAL:HG22	1.77	0.64
1:m:417:GLU:OE1	1:m:439:ALA:HB3	1.98	0.64
1:o:417:GLU:OE1	1:o:439:ALA:HB3	1.98	0.64
1:v:216:CYS:O	1:v:219:GLU:HG2	1.97	0.64
1:w:251:ILE:HD11	1:x:165:PRO:HB3	1.79	0.64
1:A:258:ASN:HB2	1:G:167:LEU:HD13	1.80	0.64
1:F:164:TYR:CZ	1:F:220:SER:OG	2.48	0.64
1:K:165:PRO:HB3	1:8:251:ILE:HD11	1.79	0.64
1:Q:327:ALA:HB2	1:Q:377:ARG:NH2	2.11	0.64
1:S:216:CYS:O	1:S:219:GLU:HG2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:251:ILE:HD11	1:U:165:PRO:HB3	1.79	0.64
1:X:417:GLU:OE1	1:X:439:ALA:HB3	1.98	0.64
1:Z:251:ILE:HD11	1:4:165:PRO:HB3	1.79	0.64
1:c:165:PRO:HB3	1:p:251:ILE:HD11	1.79	0.64
1:d:417:GLU:OE1	1:d:439:ALA:HB3	1.98	0.64
1:n:417:GLU:OE1	1:n:439:ALA:HB3	1.98	0.64
1:w:165:PRO:HB3	1:y:251:ILE:HD11	1.79	0.64
1:z:251:ILE:HD11	1:1:165:PRO:HB3	1.79	0.64
1:z:417:GLU:OE1	1:z:439:ALA:HB3	1.98	0.64
1:A:108:ARG:HD2	1:F:480:PHE:O	1.98	0.64
1:A:188:GLN:OE1	1:A:352:LYS:NZ	2.18	0.64
1:A:387:GLY:HA2	1:G:294:THR:OG1	1.98	0.64
1:L:417:GLU:OE1	1:L:439:ALA:HB3	1.98	0.64
1:N:108:ARG:HD2	1:O:480:PHE:O	1.98	0.64
1:O:417:GLU:OE1	1:O:439:ALA:HB3	1.98	0.64
1:O:422:ASP:OD2	1:n:525:LYS:NZ	2.23	0.64
1:Q:328:GLU:OE1	1:Q:328:GLU:N	2.26	0.64
1:R:417:GLU:OE1	1:R:439:ALA:HB3	1.98	0.64
1:V:251:ILE:HD11	1:e:165:PRO:HB3	1.79	0.64
1:l:216:CYS:O	1:l:219:GLU:HG2	1.97	0.64
1:o:525:LYS:NZ	1:p:422:ASP:OD2	2.22	0.64
1:r:216:CYS:O	1:r:219:GLU:HG2	1.97	0.64
1:2:118:SER:O	1:2:246:ASN:N	2.23	0.64
1:6:251:ILE:HD11	1:7:165:PRO:HB3	1.79	0.64
1:B:251:ILE:HD11	1:J:165:PRO:HB3	1.79	0.64
1:E:165:PRO:HB3	1:F:251:ILE:HD11	1.79	0.64
1:E:216:CYS:O	1:E:219:GLU:HG2	1.97	0.64
1:F:165:PRO:HB3	1:Q:251:ILE:HD11	1.79	0.64
1:H:328:GLU:OE1	1:H:328:GLU:N	2.26	0.64
1:J:118:SER:O	1:J:246:ASN:N	2.23	0.64
1:O:216:CYS:O	1:O:219:GLU:HG2	1.97	0.64
1:Q:417:GLU:OE1	1:Q:439:ALA:HB3	1.98	0.64
1:V:165:PRO:HB3	1:X:251:ILE:HD11	1.79	0.64
1:V:422:ASP:OD2	1:X:525:LYS:NZ	2.22	0.64
1:a:164:TYR:CZ	1:a:220:SER:OG	2.48	0.64
1:a:525:LYS:NZ	1:8:422:ASP:OD2	2.23	0.64
1:c:251:ILE:HD11	1:o:165:PRO:HB3	1.79	0.64
1:l:417:GLU:OE1	1:l:439:ALA:HB3	1.98	0.64
1:q:417:GLU:OE1	1:q:439:ALA:HB3	1.98	0.64
1:r:251:ILE:HD11	1:s:165:PRO:HB3	1.79	0.64
1:x:251:ILE:HD11	1:y:165:PRO:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:251:ILE:HD11	1:2:165:PRO:HB3	1.79	0.64
1:4:417:GLU:OE1	1:4:439:ALA:HB3	1.98	0.64
1:6:417:GLU:OE1	1:6:439:ALA:HB3	1.98	0.64
1:K:417:GLU:OE1	1:K:439:ALA:HB3	1.98	0.64
1:P:164:TYR:CZ	1:P:220:SER:OG	2.48	0.64
1:W:251:ILE:HD11	1:Y:165:PRO:HB3	1.79	0.64
1:W:417:GLU:OE1	1:W:439:ALA:HB3	1.98	0.64
1:X:165:PRO:HB3	1:e:251:ILE:HD11	1.79	0.64
1:Z:417:GLU:OE1	1:Z:439:ALA:HB3	1.98	0.64
1:a:108:ARG:HD2	1:3:480:PHE:O	1.98	0.64
1:a:480:PHE:O	1:3:108:ARG:HD2	1.98	0.64
1:f:118:SER:O	1:f:246:ASN:N	2.23	0.64
1:g:165:PRO:HB3	1:h:251:ILE:HD11	1.79	0.64
1:q:216:CYS:O	1:q:219:GLU:HG2	1.97	0.64
1:r:188:GLN:OE1	1:r:352:LYS:NZ	2.18	0.64
1:s:216:CYS:O	1:s:219:GLU:HG2	1.97	0.64
1:x:417:GLU:OE1	1:x:439:ALA:HB3	1.98	0.64
1:y:164:TYR:CZ	1:y:220:SER:OG	2.48	0.64
1:8:417:GLU:OE1	1:8:439:ALA:HB3	1.98	0.64
1:C:165:PRO:HB3	1:M:251:ILE:HD11	1.79	0.64
1:G:417:GLU:OE1	1:G:439:ALA:HB3	1.98	0.64
1:L:188:GLN:OE1	1:L:352:LYS:NZ	2.18	0.64
1:R:165:PRO:HB3	1:U:251:ILE:HD11	1.79	0.64
1:R:216:CYS:O	1:R:219:GLU:HG2	1.97	0.64
1:U:216:CYS:O	1:U:219:GLU:HG2	1.97	0.64
1:e:216:CYS:O	1:e:219:GLU:HG2	1.97	0.64
1:o:251:ILE:HD11	1:p:165:PRO:HB3	1.79	0.64
1:t:417:GLU:OE1	1:t:439:ALA:HB3	1.98	0.64
1:w:216:CYS:O	1:w:219:GLU:HG2	1.97	0.64
1:x:328:GLU:OE1	1:x:328:GLU:N	2.26	0.64
1:3:164:TYR:CZ	1:3:220:SER:OG	2.48	0.64
1:5:328:GLU:OE1	1:5:328:GLU:N	2.26	0.64
1:7:216:CYS:O	1:7:219:GLU:HG2	1.97	0.64
1:7:267:ASP:OD1	1:7:271:ASN:N	2.27	0.64
1:7:417:GLU:OE1	1:7:439:ALA:HB3	1.98	0.64
1:O:328:GLU:OE1	1:O:328:GLU:N	2.26	0.64
1:Y:267:ASP:OD1	1:Y:271:ASN:N	2.27	0.64
1:Y:417:GLU:OE1	1:Y:439:ALA:HB3	1.98	0.64
1:c:216:CYS:O	1:c:219:GLU:HG2	1.97	0.64
1:e:480:PHE:O	1:f:108:ARG:HD2	1.98	0.64
1:p:294:THR:HG22	1:p:307:PRO:HD3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:108:ARG:HD2	1:1:480:PHE:O	1.98	0.64
1:v:108:ARG:HD2	1:y:480:PHE:O	1.98	0.64
1:z:188:GLN:OE1	1:z:352:LYS:NZ	2.18	0.64
1:B:294:THR:HG22	1:B:307:PRO:HD3	1.80	0.64
1:B:480:PHE:O	1:I:108:ARG:HD2	1.98	0.64
1:D:294:THR:HG22	1:D:307:PRO:HD3	1.80	0.64
1:F:294:THR:HG22	1:F:307:PRO:HD3	1.80	0.64
1:Q:118:SER:HB3	1:Q:247:THR:CG2	2.28	0.64
1:R:118:SER:HB3	1:R:247:THR:CG2	2.28	0.64
1:R:164:TYR:CZ	1:R:220:SER:OG	2.48	0.64
1:V:294:THR:HG22	1:V:307:PRO:HD3	1.80	0.64
1:Y:216:CYS:O	1:Y:219:GLU:HG2	1.97	0.64
1:a:294:THR:HG22	1:a:307:PRO:HD3	1.80	0.64
1:b:108:ARG:HD2	1:c:480:PHE:O	1.98	0.64
1:o:118:SER:HB3	1:o:247:THR:CG2	2.28	0.64
1:q:118:SER:HB3	1:q:247:THR:CG2	2.28	0.64
1:q:165:PRO:HB3	1:s:251:ILE:HD11	1.79	0.64
1:v:480:PHE:O	1:y:108:ARG:HD2	1.98	0.64
1:x:118:SER:HB3	1:x:247:THR:CG2	2.28	0.64
1:y:294:THR:HG22	1:y:307:PRO:HD3	1.80	0.64
1:2:480:PHE:O	1:4:108:ARG:HD2	1.98	0.64
1:3:422:ASP:OD2	1:4:525:LYS:NZ	2.22	0.64
1:7:153:THR:HG22	1:7:226:ARG:HG3	1.80	0.64
1:7:164:TYR:CZ	1:7:220:SER:OG	2.48	0.64
1:B:417:GLU:OE1	1:B:439:ALA:HB3	1.98	0.64
1:C:287:PRO:HA	1:C:402:ILE:O	1.98	0.64
1:F:153:THR:HG22	1:F:226:ARG:HG3	1.80	0.64
1:H:216:CYS:O	1:H:219:GLU:HG2	1.97	0.64
1:H:328:GLU:HG3	1:H:331:LYS:HG3	1.80	0.64
1:J:480:PHE:O	1:K:108:ARG:HD2	1.98	0.64
1:K:153:THR:HG22	1:K:226:ARG:HG3	1.81	0.64
1:O:267:ASP:OD1	1:O:271:ASN:N	2.27	0.64
1:Q:119:LYS:HE2	1:Q:476:GLU:HG3	1.80	0.64
1:T:419:PRO:HD3	1:l:285:TRP:CE3	2.33	0.64
1:U:118:SER:HB3	1:U:247:THR:CG2	2.28	0.64
1:U:119:LYS:HE2	1:U:476:GLU:HG3	1.80	0.64
1:X:118:SER:HB3	1:X:247:THR:CG2	2.28	0.64
1:Y:153:THR:HG22	1:Y:226:ARG:HG3	1.80	0.64
1:Z:118:SER:HB3	1:Z:247:THR:CG2	2.28	0.64
1:Z:422:ASP:OD2	1:3:525:LYS:NZ	2.23	0.64
1:a:287:PRO:HA	1:a:402:ILE:O	1.99	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:118:SER:HB3	1:b:247:THR:CG2	2.28	0.64
1:b:118:SER:O	1:b:246:ASN:N	2.23	0.64
1:g:287:PRO:HA	1:g:402:ILE:O	1.98	0.64
1:j:118:SER:HB3	1:j:247:THR:CG2	2.28	0.64
1:j:164:TYR:CZ	1:j:220:SER:OG	2.48	0.64
1:k:294:THR:HG22	1:k:307:PRO:HD3	1.80	0.64
1:s:119:LYS:HE2	1:s:476:GLU:HG3	1.80	0.64
1:t:119:LYS:HE2	1:t:476:GLU:HG3	1.80	0.64
1:u:294:THR:HG22	1:u:307:PRO:HD3	1.80	0.64
1:x:119:LYS:HE2	1:x:476:GLU:HG3	1.80	0.64
1:y:153:THR:HG22	1:y:226:ARG:HG3	1.81	0.64
1:1:294:THR:HG22	1:1:307:PRO:HD3	1.80	0.64
1:3:287:PRO:HA	1:3:402:ILE:O	1.99	0.64
1:3:294:THR:HG22	1:3:307:PRO:HD3	1.80	0.64
1:4:153:THR:HG22	1:4:226:ARG:HG3	1.81	0.64
1:8:118:SER:HB3	1:8:247:THR:CG2	2.28	0.64
1:A:153:THR:HG22	1:A:226:ARG:HG3	1.80	0.63
1:D:417:GLU:OE1	1:D:439:ALA:HB3	1.98	0.63
1:G:119:LYS:HE2	1:G:476:GLU:HG3	1.81	0.63
1:I:294:THR:HG22	1:I:307:PRO:HD3	1.80	0.63
1:K:419:PRO:HD3	1:8:285:TRP:CE3	2.33	0.63
1:O:285:TRP:CE3	1:m:419:PRO:HD3	2.33	0.63
1:S:188:GLN:OE1	1:S:352:LYS:NZ	2.18	0.63
1:T:153:THR:HG22	1:T:226:ARG:HG3	1.80	0.63
1:U:417:GLU:OE1	1:U:439:ALA:HB3	1.98	0.63
1:X:294:THR:HG22	1:X:307:PRO:HD3	1.80	0.63
1:Y:164:TYR:CZ	1:Y:220:SER:OG	2.48	0.63
1:Y:328:GLU:HG3	1:Y:331:LYS:HG3	1.80	0.63
1:Z:285:TRP:CE3	1:4:419:PRO:HD3	2.33	0.63
1:b:480:PHE:O	1:c:108:ARG:HD2	1.98	0.63
1:f:118:SER:HB3	1:f:247:THR:CG2	2.28	0.63
1:k:56:CYS:HA	1:k:184:TYR:O	1.99	0.63
1:k:417:GLU:OE1	1:k:439:ALA:HB3	1.98	0.63
1:l:328:GLU:OE1	1:l:328:GLU:N	2.26	0.63
1:m:251:ILE:HD11	1:n:165:PRO:HB3	1.79	0.63
1:n:294:THR:HG22	1:n:307:PRO:HD3	1.80	0.63
1:o:153:THR:HG22	1:o:226:ARG:HG3	1.80	0.63
1:o:294:THR:HG22	1:o:307:PRO:HD3	1.80	0.63
1:q:164:TYR:CZ	1:q:220:SER:OG	2.48	0.63
1:s:118:SER:HB3	1:s:247:THR:CG2	2.28	0.63
1:t:285:TRP:CE3	1:u:419:PRO:HD3	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:251:ILE:HD11	1:v:165:PRO:HB3	1.79	0.63
1:1:417:GLU:OE1	1:1:439:ALA:HB3	1.98	0.63
1:5:216:CYS:O	1:5:219:GLU:HG2	1.97	0.63
1:7:108:ARG:HD2	1:8:480:PHE:O	1.98	0.63
1:7:328:GLU:HG3	1:7:331:LYS:HG3	1.81	0.63
1:A:285:TRP:CE3	1:G:419:PRO:HD3	2.33	0.63
1:A:417:GLU:OE1	1:A:439:ALA:HB3	1.98	0.63
1:C:294:THR:HG22	1:C:307:PRO:HD3	1.80	0.63
1:D:119:LYS:HE2	1:D:476:GLU:HG3	1.81	0.63
1:E:153:THR:HG22	1:E:226:ARG:HG3	1.80	0.63
1:H:268:LEU:CD1	1:W:317:GLY:HA3	2.29	0.63
1:O:268:LEU:CD1	1:m:317:GLY:HA3	2.29	0.63
1:P:56:CYS:HA	1:P:184:TYR:O	1.99	0.63
1:P:118:SER:HB3	1:P:247:THR:CG2	2.28	0.63
1:V:285:TRP:CE3	1:e:419:PRO:HD3	2.34	0.63
1:V:419:PRO:HD3	1:X:285:TRP:CE3	2.34	0.63
1:X:153:THR:HG22	1:X:226:ARG:HG3	1.80	0.63
1:Y:108:ARG:HD2	1:Z:480:PHE:O	1.98	0.63
1:b:287:PRO:HA	1:b:402:ILE:O	1.99	0.63
1:c:119:LYS:HE2	1:c:476:GLU:HG3	1.80	0.63
1:c:419:PRO:HD3	1:p:285:TRP:CE3	2.34	0.63
1:d:294:THR:HG22	1:d:307:PRO:HD3	1.80	0.63
1:e:119:LYS:HE2	1:e:476:GLU:HG3	1.80	0.63
1:f:287:PRO:HA	1:f:402:ILE:O	1.99	0.63
1:g:294:THR:HG22	1:g:307:PRO:HD3	1.80	0.63
1:k:119:LYS:HE2	1:k:476:GLU:HG3	1.80	0.63
1:o:285:TRP:CE3	1:p:419:PRO:HD3	2.34	0.63
1:s:417:GLU:OE1	1:s:439:ALA:HB3	1.98	0.63
1:v:153:THR:HG22	1:v:226:ARG:HG3	1.80	0.63
1:v:417:GLU:OE1	1:v:439:ALA:HB3	1.98	0.63
1:w:153:THR:HG22	1:w:226:ARG:HG3	1.80	0.63
1:w:267:ASP:OD1	1:w:271:ASN:N	2.27	0.63
1:5:268:LEU:CD1	1:6:317:GLY:HA3	2.29	0.63
1:7:118:SER:HB3	1:7:247:THR:CG2	2.28	0.63
1:A:81:GLU:OE1	1:I:275:ARG:HG2	1.98	0.63
1:A:480:PHE:O	1:F:108:ARG:HD2	1.99	0.63
1:B:302:ASN:O	1:B:305:THR:OG1	2.08	0.63
1:D:56:CYS:HA	1:D:184:TYR:O	1.99	0.63
1:E:417:GLU:OE1	1:E:439:ALA:HB3	1.98	0.63
1:G:108:ARG:HD2	1:H:480:PHE:O	1.99	0.63
1:G:285:TRP:CE3	1:I:419:PRO:HD3	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:118:SER:HB3	1:H:247:THR:CG2	2.28	0.63
1:K:525:LYS:NZ	1:a:422:ASP:OD2	2.22	0.63
1:P:328:GLU:HG3	1:P:331:LYS:HG3	1.81	0.63
1:S:153:THR:HG22	1:S:226:ARG:HG3	1.81	0.63
1:S:480:PHE:O	1:T:108:ARG:HD2	1.98	0.63
1:T:118:SER:O	1:T:246:ASN:N	2.23	0.63
1:T:251:ILE:HD11	1:d:165:PRO:HB3	1.79	0.63
1:T:317:GLY:HA3	1:l:268:LEU:CD1	2.29	0.63
1:W:108:ARG:HD2	1:X:480:PHE:O	1.98	0.63
1:X:287:PRO:HA	1:X:402:ILE:O	1.98	0.63
1:Y:118:SER:HB3	1:Y:247:THR:CG2	2.28	0.63
1:Y:480:PHE:O	1:Z:108:ARG:HD2	1.99	0.63
1:a:119:LYS:HE2	1:a:476:GLU:HG3	1.80	0.63
1:a:328:GLU:OE1	1:a:328:GLU:N	2.26	0.63
1:d:328:GLU:HG3	1:d:331:LYS:HG3	1.81	0.63
1:e:108:ARG:HD2	1:f:480:PHE:O	1.98	0.63
1:j:56:CYS:HA	1:j:184:TYR:O	1.99	0.63
1:j:285:TRP:CE3	1:k:419:PRO:HD3	2.34	0.63
1:j:417:GLU:OE1	1:j:439:ALA:HB3	1.98	0.63
1:m:108:ARG:HD2	1:r:480:PHE:O	1.98	0.63
1:m:153:THR:HG22	1:m:226:ARG:HG3	1.81	0.63
1:n:328:GLU:HG3	1:n:331:LYS:HG3	1.81	0.63
1:q:294:THR:HG22	1:q:307:PRO:HD3	1.80	0.63
1:r:417:GLU:OE1	1:r:439:ALA:HB3	1.98	0.63
1:u:417:GLU:OE1	1:u:439:ALA:HB3	1.98	0.63
1:z:165:PRO:HB3	1:2:251:ILE:HD11	1.79	0.63
1:1:153:THR:HG22	1:1:226:ARG:HG3	1.81	0.63
1:1:302:ASN:O	1:1:305:THR:OG1	2.08	0.63
1:3:119:LYS:HE2	1:3:476:GLU:HG3	1.80	0.63
1:3:419:PRO:HD3	1:4:285:TRP:CE3	2.34	0.63
1:5:118:SER:HB3	1:5:247:THR:CG2	2.28	0.63
1:5:328:GLU:HG3	1:5:331:LYS:HG3	1.81	0.63
1:7:480:PHE:O	1:8:108:ARG:HD2	1.99	0.63
1:B:56:CYS:HA	1:B:184:TYR:O	1.99	0.63
1:B:153:THR:HG22	1:B:226:ARG:HG3	1.81	0.63
1:C:118:SER:HB3	1:C:247:THR:CG2	2.28	0.63
1:C:153:THR:HG22	1:C:226:ARG:HG3	1.81	0.63
1:D:419:PRO:HD3	1:P:285:TRP:CE3	2.34	0.63
1:D:525:LYS:NZ	1:N:422:ASP:OD2	2.22	0.63
1:E:267:ASP:OD1	1:E:271:ASN:N	2.27	0.63
1:G:153:THR:HG22	1:G:226:ARG:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:294:THR:HG22	1:H:307:PRO:HD3	1.80	0.63
1:I:118:SER:HB3	1:I:247:THR:CG2	2.28	0.63
1:J:268:LEU:CD1	1:L:317:GLY:HA3	2.29	0.63
1:K:56:CYS:HA	1:K:184:TYR:O	1.99	0.63
1:K:285:TRP:CE3	1:a:419:PRO:HD3	2.34	0.63
1:L:119:LYS:HE2	1:L:476:GLU:HG3	1.81	0.63
1:M:419:PRO:HD3	1:b:285:TRP:CE3	2.34	0.63
1:N:56:CYS:HA	1:N:184:TYR:O	1.99	0.63
1:O:287:PRO:HA	1:O:402:ILE:O	1.98	0.63
1:P:417:GLU:OE1	1:P:439:ALA:HB3	1.98	0.63
1:Q:480:PHE:O	1:R:108:ARG:HD2	1.99	0.63
1:R:294:THR:HG22	1:R:307:PRO:HD3	1.80	0.63
1:X:119:LYS:HE2	1:X:476:GLU:HG3	1.81	0.63
1:b:188:GLN:OE1	1:b:352:LYS:NZ	2.18	0.63
1:f:285:TRP:CE3	1:h:419:PRO:HD3	2.34	0.63
1:f:417:GLU:OE1	1:f:439:ALA:HB3	1.98	0.63
1:k:118:SER:HB3	1:k:247:THR:CG2	2.28	0.63
1:k:287:PRO:HA	1:k:402:ILE:O	1.98	0.63
1:l:267:ASP:OD1	1:l:271:ASN:N	2.27	0.63
1:l:287:PRO:HA	1:l:402:ILE:O	1.98	0.63
1:o:108:ARG:HD2	1:6:480:PHE:O	1.99	0.63
1:o:287:PRO:HA	1:o:402:ILE:O	1.98	0.63
1:q:108:ARG:HD2	1:x:480:PHE:O	1.99	0.63
1:r:118:SER:O	1:r:246:ASN:N	2.23	0.63
1:r:153:THR:HG22	1:r:226:ARG:HG3	1.81	0.63
1:t:153:THR:HG22	1:t:226:ARG:HG3	1.80	0.63
1:u:285:TRP:CE3	1:v:419:PRO:HD3	2.34	0.63
1:x:294:THR:HG22	1:x:307:PRO:HD3	1.80	0.63
1:z:317:GLY:HA3	1:2:268:LEU:CD1	2.29	0.63
1:1:287:PRO:HA	1:1:402:ILE:O	1.98	0.63
1:4:56:CYS:HA	1:4:184:TYR:O	1.99	0.63
1:4:118:SER:HB3	1:4:247:THR:CG2	2.28	0.63
1:6:285:TRP:CE3	1:7:419:PRO:HD3	2.34	0.63
1:B:119:LYS:HE3	1:B:476:GLU:CG	2.29	0.63
1:B:285:TRP:CE3	1:J:419:PRO:HD3	2.34	0.63
1:B:287:PRO:HA	1:B:402:ILE:O	1.98	0.63
1:C:328:GLU:HG3	1:C:331:LYS:HG3	1.81	0.63
1:D:287:PRO:HA	1:D:402:ILE:O	1.98	0.63
1:H:285:TRP:CE3	1:W:419:PRO:HD3	2.34	0.63
1:H:417:GLU:OE1	1:H:439:ALA:HB3	1.98	0.63
1:I:216:CYS:O	1:I:219:GLU:HG2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:417:GLU:OE1	1:I:439:ALA:HB3	1.98	0.63
1:J:153:THR:HG22	1:J:226:ARG:HG3	1.80	0.63
1:J:251:ILE:HD11	1:L:165:PRO:HB3	1.79	0.63
1:K:118:SER:HB3	1:K:247:THR:CG2	2.28	0.63
1:N:118:SER:HB3	1:N:247:THR:CG2	2.28	0.63
1:Q:294:THR:HG22	1:Q:307:PRO:HD3	1.80	0.63
1:R:317:GLY:HA3	1:U:268:LEU:CD1	2.29	0.63
1:S:108:ARG:HD2	1:T:480:PHE:O	1.99	0.63
1:S:118:SER:HB3	1:S:247:THR:CG2	2.28	0.63
1:S:118:SER:O	1:S:246:ASN:N	2.23	0.63
1:S:417:GLU:OE1	1:S:439:ALA:HB3	1.98	0.63
1:V:56:CYS:HA	1:V:184:TYR:O	1.99	0.63
1:W:285:TRP:CE3	1:Y:419:PRO:HD3	2.34	0.63
1:W:480:PHE:O	1:X:108:ARG:HD2	1.99	0.63
1:X:119:LYS:HE3	1:X:476:GLU:CG	2.29	0.63
1:X:317:GLY:HA3	1:e:268:LEU:CD1	2.29	0.63
1:X:328:GLU:HG3	1:X:331:LYS:HG3	1.81	0.63
1:Z:287:PRO:HA	1:Z:402:ILE:O	1.98	0.63
1:a:118:SER:HB3	1:a:247:THR:CG2	2.29	0.63
1:a:417:GLU:OE1	1:a:439:ALA:HB3	1.98	0.63
1:b:417:GLU:OE1	1:b:439:ALA:HB3	1.98	0.63
1:c:268:LEU:CD1	1:o:317:GLY:HA3	2.29	0.63
1:g:118:SER:HB3	1:g:247:THR:CG2	2.28	0.63
1:g:153:THR:HG22	1:g:226:ARG:HG3	1.81	0.63
1:g:328:GLU:HG3	1:g:331:LYS:HG3	1.81	0.63
1:i:56:CYS:HA	1:i:184:TYR:O	1.99	0.63
1:i:118:SER:HB3	1:i:247:THR:CG2	2.28	0.63
1:i:422:ASP:OD2	1:k:525:LYS:NZ	2.22	0.63
1:j:328:GLU:HG3	1:j:331:LYS:HG3	1.81	0.63
1:m:480:PHE:O	1:r:108:ARG:HD2	1.99	0.63
1:o:119:LYS:HE3	1:o:476:GLU:CG	2.29	0.63
1:o:119:LYS:HE2	1:o:476:GLU:HG3	1.81	0.63
1:o:268:LEU:CD1	1:p:317:GLY:HA3	2.29	0.63
1:o:328:GLU:HG3	1:o:331:LYS:HG3	1.81	0.63
1:o:480:PHE:O	1:6:108:ARG:HD2	1.98	0.63
1:q:317:GLY:HA3	1:s:268:LEU:CD1	2.29	0.63
1:t:258:ASN:HB2	1:u:167:LEU:HD13	1.80	0.63
1:u:216:CYS:O	1:u:219:GLU:HG2	1.97	0.63
1:u:268:LEU:CD1	1:v:317:GLY:HA3	2.29	0.63
1:u:287:PRO:HA	1:u:402:ILE:O	1.98	0.63
1:w:118:SER:O	1:w:246:ASN:N	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:285:TRP:CE3	1:x:419:PRO:HD3	2.34	0.63
1:w:287:PRO:HA	1:w:402:ILE:O	1.98	0.63
1:w:417:GLU:OE1	1:w:439:ALA:HB3	1.98	0.63
1:x:285:TRP:CE3	1:y:419:PRO:HD3	2.34	0.63
1:z:56:CYS:HA	1:z:184:TYR:O	1.99	0.63
1:z:119:LYS:HE2	1:z:476:GLU:HG3	1.80	0.63
1:1:56:CYS:HA	1:1:184:TYR:O	1.99	0.63
1:1:119:LYS:HE3	1:1:476:GLU:CG	2.29	0.63
1:1:285:TRP:CE3	1:2:419:PRO:HD3	2.34	0.63
1:3:153:THR:HG22	1:3:226:ARG:HG3	1.81	0.63
1:5:294:THR:HG22	1:5:307:PRO:HD3	1.80	0.63
1:5:417:GLU:OE1	1:5:439:ALA:HB3	1.98	0.63
1:B:118:SER:HB3	1:B:247:THR:CG2	2.28	0.63
1:B:328:GLU:HG3	1:B:331:LYS:HG3	1.81	0.63
1:D:118:SER:HB3	1:D:247:THR:CG2	2.28	0.63
1:E:118:SER:HB3	1:E:247:THR:CG2	2.28	0.63
1:E:285:TRP:CE3	1:Q:419:PRO:HD3	2.34	0.63
1:E:294:THR:HG22	1:E:307:PRO:HD3	1.80	0.63
1:E:328:GLU:HG3	1:E:331:LYS:HG3	1.81	0.63
1:E:419:PRO:HD3	1:F:285:TRP:CE3	2.34	0.63
1:F:328:GLU:HG3	1:F:331:LYS:HG3	1.81	0.63
1:F:419:PRO:HD3	1:Q:285:TRP:CE3	2.34	0.63
1:J:287:PRO:HA	1:J:402:ILE:O	1.98	0.63
1:J:328:GLU:HG3	1:J:331:LYS:HG3	1.81	0.63
1:J:417:GLU:OE1	1:J:439:ALA:HB3	1.98	0.63
1:L:56:CYS:HA	1:L:184:TYR:O	1.99	0.63
1:N:294:THR:HG22	1:N:307:PRO:HD3	1.80	0.63
1:O:118:SER:O	1:O:246:ASN:N	2.23	0.63
1:O:419:PRO:HD3	1:n:285:TRP:CE3	2.34	0.63
1:S:285:TRP:CE3	1:U:419:PRO:HD3	2.34	0.63
1:T:119:LYS:HE3	1:T:476:GLU:CG	2.29	0.63
1:V:317:GLY:HA3	1:X:268:LEU:CD1	2.29	0.63
1:V:417:GLU:OE1	1:V:439:ALA:HB3	1.98	0.63
1:W:119:LYS:HE2	1:W:476:GLU:HG3	1.81	0.63
1:W:294:THR:HG22	1:W:307:PRO:HD3	1.80	0.63
1:W:525:LYS:NZ	1:Y:422:ASP:OD2	2.22	0.63
1:a:153:THR:HG22	1:a:226:ARG:HG3	1.81	0.63
1:c:417:GLU:OE1	1:c:439:ALA:HB3	1.98	0.63
1:d:119:LYS:HE3	1:d:476:GLU:CG	2.29	0.63
1:e:119:LYS:HE3	1:e:476:GLU:CG	2.29	0.63
1:f:188:GLN:OE1	1:f:352:LYS:NZ	2.18	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:108:ARG:HD2	1:z:480:PHE:O	1.98	0.63
1:g:417:GLU:OE1	1:g:439:ALA:HB3	1.98	0.63
1:h:294:THR:HG22	1:h:307:PRO:HD3	1.80	0.63
1:j:287:PRO:HA	1:j:402:ILE:O	1.98	0.63
1:n:119:LYS:HE3	1:n:476:GLU:CG	2.29	0.63
1:n:153:THR:HG22	1:n:226:ARG:HG3	1.80	0.63
1:p:56:CYS:HA	1:p:184:TYR:O	1.99	0.63
1:p:118:SER:HB3	1:p:247:THR:CG2	2.28	0.63
1:p:417:GLU:OE1	1:p:439:ALA:HB3	1.98	0.63
1:q:285:TRP:CE3	1:r:419:PRO:HD3	2.34	0.63
1:r:118:SER:HB3	1:r:247:THR:CG2	2.28	0.63
1:r:119:LYS:HE3	1:r:476:GLU:CG	2.29	0.63
1:r:285:TRP:CE3	1:s:419:PRO:HD3	2.34	0.63
1:t:118:SER:HB3	1:t:247:THR:CG2	2.28	0.63
1:u:118:SER:HB3	1:u:247:THR:CG2	2.28	0.63
1:w:118:SER:HB3	1:w:247:THR:CG2	2.28	0.63
1:w:294:THR:HG22	1:w:307:PRO:HD3	1.80	0.63
1:w:328:GLU:HG3	1:w:331:LYS:HG3	1.81	0.63
1:w:419:PRO:HD3	1:y:285:TRP:CE3	2.34	0.63
1:x:268:LEU:CD1	1:y:317:GLY:HA3	2.29	0.63
1:y:118:SER:HB3	1:y:247:THR:CG2	2.28	0.63
1:y:328:GLU:HG3	1:y:331:LYS:HG3	1.81	0.63
1:1:118:SER:HB3	1:1:247:THR:CG2	2.28	0.63
1:2:153:THR:HG22	1:2:226:ARG:HG3	1.81	0.63
1:2:328:GLU:HG3	1:2:331:LYS:HG3	1.81	0.63
1:3:118:SER:HB3	1:3:247:THR:CG2	2.29	0.63
1:3:328:GLU:OE1	1:3:328:GLU:N	2.26	0.63
1:6:294:THR:HG22	1:6:307:PRO:HD3	1.80	0.63
1:7:287:PRO:HA	1:7:402:ILE:O	1.98	0.63
1:8:294:THR:HG22	1:8:307:PRO:HD3	1.80	0.63
1:C:108:ARG:HD2	1:L:480:PHE:O	1.99	0.63
1:C:317:GLY:HA3	1:M:268:LEU:CD1	2.29	0.63
1:E:287:PRO:HA	1:E:402:ILE:O	1.98	0.63
1:F:118:SER:HB3	1:F:247:THR:CG2	2.29	0.63
1:F:317:GLY:HA3	1:Q:268:LEU:CD1	2.29	0.63
1:G:118:SER:HB3	1:G:247:THR:CG2	2.28	0.63
1:H:119:LYS:HE3	1:H:476:GLU:CG	2.29	0.63
1:H:422:ASP:OD2	1:Y:525:LYS:NZ	2.22	0.63
1:J:56:CYS:HA	1:J:184:TYR:O	1.99	0.63
1:N:287:PRO:HA	1:N:402:ILE:O	1.99	0.63
1:O:118:SER:HB3	1:O:247:THR:CG2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:287:PRO:HA	1:P:402:ILE:O	1.98	0.63
1:P:327:ALA:H	1:P:377:ARG:HH21	1.47	0.63
1:Q:287:PRO:HA	1:Q:402:ILE:O	1.98	0.63
1:R:285:TRP:CE3	1:S:419:PRO:HD3	2.34	0.63
1:S:56:CYS:HA	1:S:184:TYR:O	1.99	0.63
1:S:119:LYS:HE3	1:S:476:GLU:CG	2.29	0.63
1:V:118:SER:HB3	1:V:247:THR:CG2	2.28	0.63
1:V:153:THR:HG22	1:V:226:ARG:HG3	1.81	0.63
1:W:328:GLU:HG3	1:W:331:LYS:HG3	1.81	0.63
1:Y:287:PRO:HA	1:Y:402:ILE:O	1.99	0.63
1:Z:188:GLN:OE1	1:Z:352:LYS:NZ	2.18	0.63
1:b:328:GLU:HG3	1:b:331:LYS:HG3	1.81	0.63
1:c:119:LYS:HE3	1:c:476:GLU:CG	2.29	0.63
1:c:285:TRP:CE3	1:o:419:PRO:HD3	2.34	0.63
1:d:153:THR:HG22	1:d:226:ARG:HG3	1.81	0.63
1:d:285:TRP:CE3	1:l:419:PRO:HD3	2.34	0.63
1:i:287:PRO:HA	1:i:402:ILE:O	1.98	0.63
1:i:480:PHE:O	1:l:108:ARG:HD2	1.99	0.63
1:m:118:SER:O	1:m:246:ASN:N	2.23	0.63
1:m:119:LYS:HE3	1:m:476:GLU:CG	2.29	0.63
1:p:153:THR:HG22	1:p:226:ARG:HG3	1.81	0.63
1:v:287:PRO:HA	1:v:402:ILE:O	1.98	0.63
1:x:153:THR:HG22	1:x:226:ARG:HG3	1.80	0.63
1:x:287:PRO:HA	1:x:402:ILE:O	1.98	0.63
1:2:417:GLU:OE1	1:2:439:ALA:HB3	1.98	0.63
1:5:119:LYS:HE3	1:5:476:GLU:CG	2.29	0.63
1:5:285:TRP:CE3	1:6:419:PRO:HD3	2.34	0.63
1:5:422:ASP:OD2	1:7:525:LYS:NZ	2.22	0.63
1:6:119:LYS:HE2	1:6:476:GLU:HG3	1.81	0.63
1:6:268:LEU:CD1	1:7:317:GLY:HA3	2.29	0.63
1:8:287:PRO:HA	1:8:402:ILE:O	1.99	0.63
1:A:165:PRO:HB3	1:I:251:ILE:HD11	1.80	0.63
1:A:287:PRO:HA	1:A:402:ILE:O	1.98	0.63
1:A:294:THR:HG22	1:A:307:PRO:HD3	1.80	0.63
1:C:417:GLU:OE1	1:C:439:ALA:HB3	1.98	0.63
1:G:480:PHE:O	1:H:108:ARG:HD2	1.99	0.63
1:I:287:PRO:HA	1:I:402:ILE:O	1.98	0.63
1:J:216:CYS:O	1:J:219:GLU:HG2	1.97	0.63
1:K:167:LEU:HD13	1:8:258:ASN:HB2	1.81	0.63
1:M:287:PRO:HA	1:M:402:ILE:O	1.98	0.63
1:M:294:THR:HG22	1:M:307:PRO:HD3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:268:LEU:CD1	1:P:317:GLY:HA3	2.29	0.63
1:N:480:PHE:O	1:O:108:ARG:HD2	1.99	0.63
1:O:258:ASN:HB2	1:m:167:LEU:HD13	1.81	0.63
1:Q:119:LYS:HE3	1:Q:476:GLU:CG	2.29	0.63
1:T:167:LEU:HD13	1:l:258:ASN:HB2	1.81	0.63
1:U:480:PHE:O	1:V:108:ARG:HD2	1.99	0.63
1:W:153:THR:HG22	1:W:226:ARG:HG3	1.80	0.63
1:W:268:LEU:CD1	1:Y:317:GLY:HA3	2.29	0.63
1:X:56:CYS:HA	1:X:184:TYR:O	1.99	0.63
1:X:419:PRO:HD3	1:e:285:TRP:CE3	2.34	0.63
1:Y:327:ALA:H	1:Y:377:ARG:HH21	1.47	0.63
1:Z:328:GLU:HG3	1:Z:331:LYS:HG3	1.81	0.63
1:a:188:GLN:OE1	1:a:352:LYS:NZ	2.18	0.63
1:b:153:THR:HG22	1:b:226:ARG:HG3	1.81	0.63
1:c:118:SER:HB3	1:c:247:THR:CG2	2.28	0.63
1:d:118:SER:HB3	1:d:247:THR:CG2	2.29	0.63
1:f:328:GLU:HG3	1:f:331:LYS:HG3	1.81	0.63
1:g:317:GLY:HA3	1:h:268:LEU:CD1	2.29	0.63
1:i:268:LEU:CD1	1:j:317:GLY:HA3	2.29	0.63
1:i:294:THR:HG22	1:i:307:PRO:HD3	1.80	0.63
1:l:118:SER:HB3	1:l:247:THR:CG2	2.28	0.63
1:n:327:ALA:H	1:n:377:ARG:HH21	1.47	0.63
1:o:56:CYS:HA	1:o:184:TYR:O	1.99	0.63
1:p:104:HIS:CD2	1:p:414:ILE:HD11	2.34	0.63
1:p:108:ARG:HD2	1:s:480:PHE:O	1.99	0.63
1:q:328:GLU:HG3	1:q:331:LYS:HG3	1.81	0.63
1:q:419:PRO:HD3	1:s:285:TRP:CE3	2.34	0.63
1:r:56:CYS:HA	1:r:184:TYR:O	1.99	0.63
1:r:327:ALA:H	1:r:377:ARG:HH21	1.47	0.63
1:v:294:THR:HG22	1:v:307:PRO:HD3	1.80	0.63
1:w:104:HIS:CD2	1:w:414:ILE:HD11	2.34	0.63
1:y:327:ALA:H	1:y:377:ARG:HH21	1.47	0.63
1:z:118:SER:HB3	1:z:247:THR:CG2	2.28	0.63
1:1:328:GLU:HG3	1:1:331:LYS:HG3	1.81	0.63
1:2:56:CYS:HA	1:2:184:TYR:O	1.99	0.63
1:2:287:PRO:HA	1:2:402:ILE:O	1.98	0.63
1:2:294:THR:HG22	1:2:307:PRO:HD3	1.80	0.63
1:3:417:GLU:OE1	1:3:439:ALA:HB3	1.98	0.63
1:5:153:THR:HG22	1:5:226:ARG:HG3	1.80	0.63
1:6:153:THR:HG22	1:6:226:ARG:HG3	1.80	0.63
1:6:328:GLU:HG3	1:6:331:LYS:HG3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:LYS:HE2	1:C:476:GLU:HG3	1.81	0.63
1:D:108:ARG:HD2	1:M:480:PHE:O	1.98	0.63
1:D:153:THR:HG22	1:D:226:ARG:HG3	1.80	0.63
1:E:104:HIS:CD2	1:E:414:ILE:HD11	2.34	0.63
1:E:118:SER:O	1:E:246:ASN:N	2.24	0.63
1:E:480:PHE:O	1:P:108:ARG:HD2	1.99	0.63
1:F:417:GLU:OE1	1:F:439:ALA:HB3	1.98	0.63
1:G:294:THR:HG22	1:G:307:PRO:HD3	1.80	0.63
1:H:153:THR:HG22	1:H:226:ARG:HG3	1.81	0.63
1:H:287:PRO:HA	1:H:402:ILE:O	1.98	0.63
1:M:417:GLU:OE1	1:M:439:ALA:HB3	1.98	0.63
1:N:328:GLU:HG3	1:N:331:LYS:HG3	1.80	0.63
1:N:417:GLU:OE1	1:N:439:ALA:HB3	1.98	0.63
1:O:387:GLY:HA2	1:m:294:THR:OG1	1.99	0.63
1:Q:153:THR:HG22	1:Q:226:ARG:HG3	1.80	0.63
1:Q:328:GLU:HG3	1:Q:331:LYS:HG3	1.81	0.63
1:R:268:LEU:CD1	1:S:317:GLY:HA3	2.29	0.63
1:R:328:GLU:HG3	1:R:331:LYS:HG3	1.81	0.63
1:R:419:PRO:HD3	1:U:285:TRP:CE3	2.34	0.63
1:S:104:HIS:CD2	1:S:414:ILE:HD11	2.34	0.63
1:S:327:ALA:H	1:S:377:ARG:HH21	1.47	0.63
1:V:104:HIS:CD2	1:V:414:ILE:HD11	2.34	0.63
1:W:302:ASN:O	1:W:305:THR:OG1	2.08	0.63
1:X:422:ASP:OD2	1:e:525:LYS:NZ	2.22	0.63
1:Y:104:HIS:CD2	1:Y:414:ILE:HD11	2.34	0.63
1:Z:119:LYS:HE2	1:Z:476:GLU:HG3	1.80	0.63
1:Z:258:ASN:HB2	1:4:167:LEU:HD13	1.81	0.63
1:Z:294:THR:HG22	1:Z:307:PRO:HD3	1.80	0.63
1:b:56:CYS:HA	1:b:184:TYR:O	1.99	0.63
1:d:327:ALA:H	1:d:377:ARG:HH21	1.47	0.63
1:e:118:SER:HB3	1:e:247:THR:CG2	2.28	0.63
1:e:417:GLU:OE1	1:e:439:ALA:HB3	1.98	0.63
1:f:153:THR:HG22	1:f:226:ARG:HG3	1.81	0.63
1:h:480:PHE:O	1:k:108:ARG:HD2	1.98	0.63
1:i:258:ASN:HB2	1:j:167:LEU:HD13	1.81	0.63
1:j:108:ARG:HD2	1:w:480:PHE:O	1.98	0.63
1:j:327:ALA:H	1:j:377:ARG:HH21	1.47	0.63
1:k:153:THR:HG22	1:k:226:ARG:HG3	1.80	0.63
1:l:118:SER:O	1:l:246:ASN:N	2.23	0.63
1:m:118:SER:HB3	1:m:247:THR:CG2	2.28	0.63
1:m:328:GLU:HG3	1:m:331:LYS:HG3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:104:HIS:CD2	1:r:414:ILE:HD11	2.34	0.63
1:s:56:CYS:HA	1:s:184:TYR:O	1.99	0.63
1:t:81:GLU:OE1	1:v:275:ARG:HG2	1.98	0.63
1:t:294:THR:HG22	1:t:307:PRO:HD3	1.80	0.63
1:t:312:GLY:O	1:v:377:ARG:CD	2.47	0.63
1:x:119:LYS:HE3	1:x:476:GLU:CG	2.29	0.63
1:z:419:PRO:HD3	1:2:285:TRP:CE3	2.34	0.63
1:4:119:LYS:HE3	1:4:476:GLU:CG	2.29	0.63
1:4:119:LYS:HE2	1:4:476:GLU:HG3	1.80	0.63
1:6:104:HIS:CD2	1:6:414:ILE:HD11	2.34	0.63
1:7:104:HIS:CD2	1:7:414:ILE:HD11	2.34	0.63
1:7:327:ALA:H	1:7:377:ARG:HH21	1.47	0.63
1:8:188:GLN:OE1	1:8:352:LYS:NZ	2.18	0.63
1:8:328:GLU:HG3	1:8:331:LYS:HG3	1.81	0.63
1:C:268:LEU:CD1	1:b:317:GLY:HA3	2.29	0.62
1:D:104:HIS:CD2	1:D:414:ILE:HD11	2.34	0.62
1:F:327:ALA:H	1:F:377:ARG:HH21	1.47	0.62
1:J:285:TRP:CE3	1:L:419:PRO:HD3	2.34	0.62
1:J:294:THR:HG22	1:J:307:PRO:HD3	1.80	0.62
1:L:118:SER:HB3	1:L:247:THR:CG2	2.29	0.62
1:M:56:CYS:HA	1:M:184:TYR:O	1.99	0.62
1:M:317:GLY:HA3	1:b:268:LEU:CD1	2.29	0.62
1:O:56:CYS:HA	1:O:184:TYR:O	1.99	0.62
1:T:104:HIS:CD2	1:T:414:ILE:HD11	2.34	0.62
1:T:328:GLU:HG3	1:T:331:LYS:HG3	1.81	0.62
1:U:56:CYS:HA	1:U:184:TYR:O	1.99	0.62
1:V:328:GLU:HG3	1:V:331:LYS:HG3	1.81	0.62
1:W:104:HIS:CD2	1:W:414:ILE:HD11	2.34	0.62
1:W:118:SER:HB3	1:W:247:THR:CG2	2.28	0.62
1:Y:56:CYS:HA	1:Y:184:TYR:O	1.99	0.62
1:Z:387:GLY:HA2	1:4:294:THR:OG1	1.99	0.62
1:c:302:ASN:O	1:c:305:THR:OG1	2.08	0.62
1:c:327:ALA:H	1:c:377:ARG:HH21	1.47	0.62
1:c:328:GLU:HG3	1:c:331:LYS:HG3	1.81	0.62
1:e:327:ALA:H	1:e:377:ARG:HH21	1.47	0.62
1:e:328:GLU:HG3	1:e:331:LYS:HG3	1.81	0.62
1:f:56:CYS:HA	1:f:184:TYR:O	1.99	0.62
1:f:268:LEU:CD1	1:h:317:GLY:HA3	2.29	0.62
1:h:104:HIS:CD2	1:h:414:ILE:HD11	2.34	0.62
1:i:285:TRP:CE3	1:j:419:PRO:HD3	2.34	0.62
1:i:328:GLU:HG3	1:i:331:LYS:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:417:GLU:OE1	1:i:439:ALA:HB3	1.98	0.62
1:j:153:THR:HG22	1:j:226:ARG:HG3	1.81	0.62
1:j:480:PHE:O	1:w:108:ARG:HD2	1.99	0.62
1:k:104:HIS:CD2	1:k:414:ILE:HD11	2.34	0.62
1:l:56:CYS:HA	1:l:184:TYR:O	1.99	0.62
1:m:104:HIS:CD2	1:m:414:ILE:HD11	2.34	0.62
1:m:287:PRO:HA	1:m:402:ILE:O	1.98	0.62
1:n:118:SER:HB3	1:n:247:THR:CG2	2.29	0.62
1:q:268:LEU:CD1	1:r:317:GLY:HA3	2.29	0.62
1:t:56:CYS:HA	1:t:184:TYR:O	1.99	0.62
1:x:328:GLU:HG3	1:x:331:LYS:HG3	1.81	0.62
1:y:417:GLU:OE1	1:y:439:ALA:HB3	1.98	0.62
1:1:104:HIS:CD2	1:1:414:ILE:HD11	2.34	0.62
1:2:104:HIS:CD2	1:2:414:ILE:HD11	2.34	0.62
1:3:188:GLN:OE1	1:3:352:LYS:NZ	2.18	0.62
1:7:56:CYS:HA	1:7:184:TYR:O	1.99	0.62
1:A:56:CYS:HA	1:A:184:TYR:O	1.99	0.62
1:A:118:SER:HB3	1:A:247:THR:CG2	2.28	0.62
1:B:104:HIS:CD2	1:B:414:ILE:HD11	2.34	0.62
1:C:104:HIS:CD2	1:C:414:ILE:HD11	2.34	0.62
1:E:108:ARG:HD2	1:P:480:PHE:O	1.99	0.62
1:J:104:HIS:CD2	1:J:414:ILE:HD11	2.34	0.62
1:K:119:LYS:HE3	1:K:476:GLU:CG	2.29	0.62
1:K:119:LYS:HE2	1:K:476:GLU:HG3	1.81	0.62
1:K:287:PRO:HA	1:K:402:ILE:O	1.98	0.62
1:K:294:THR:OG1	1:8:387:GLY:HA2	1.99	0.62
1:M:118:SER:HB3	1:M:247:THR:CG2	2.28	0.62
1:M:267:ASP:OD1	1:M:271:ASN:N	2.27	0.62
1:N:258:ASN:HB2	1:P:167:LEU:HD13	1.81	0.62
1:P:153:THR:HG22	1:P:226:ARG:HG3	1.81	0.62
1:Q:56:CYS:HA	1:Q:184:TYR:O	1.99	0.62
1:R:118:SER:O	1:R:246:ASN:N	2.23	0.62
1:S:294:THR:HG22	1:S:307:PRO:HD3	1.80	0.62
1:T:267:ASP:OD1	1:T:271:ASN:N	2.27	0.62
1:T:287:PRO:HA	1:T:402:ILE:O	1.98	0.62
1:T:294:THR:OG1	1:l:387:GLY:HA2	1.99	0.62
1:Y:119:LYS:HE3	1:Y:476:GLU:CG	2.29	0.62
1:Z:104:HIS:CD2	1:Z:414:ILE:HD11	2.34	0.62
1:Z:419:PRO:HD3	1:3:285:TRP:CE3	2.34	0.62
1:c:317:GLY:HA3	1:p:268:LEU:CD1	2.29	0.62
1:f:317:GLY:HA3	1:g:268:LEU:CD1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:419:PRO:HD3	1:h:285:TRP:CE3	2.34	0.62
1:h:56:CYS:HA	1:h:184:TYR:O	1.99	0.62
1:h:118:SER:HB3	1:h:247:THR:CG2	2.28	0.62
1:h:119:LYS:HE2	1:h:476:GLU:HG3	1.80	0.62
1:h:287:PRO:HA	1:h:402:ILE:O	1.99	0.62
1:h:327:ALA:H	1:h:377:ARG:HH21	1.47	0.62
1:l:294:THR:HG22	1:l:307:PRO:HD3	1.80	0.62
1:m:525:LYS:NZ	1:n:422:ASP:OD2	2.22	0.62
1:n:287:PRO:HA	1:n:402:ILE:O	1.99	0.62
1:o:104:HIS:CD2	1:o:414:ILE:HD11	2.34	0.62
1:p:328:GLU:HG3	1:p:331:LYS:HG3	1.81	0.62
1:r:294:THR:HG22	1:r:307:PRO:HD3	1.80	0.62
1:s:327:ALA:H	1:s:377:ARG:HH21	1.47	0.62
1:v:56:CYS:HA	1:v:184:TYR:O	1.99	0.62
1:w:56:CYS:HA	1:w:184:TYR:O	1.99	0.62
1:w:268:LEU:CD1	1:x:317:GLY:HA3	2.29	0.62
1:2:118:SER:HB3	1:2:247:THR:CG2	2.28	0.62
1:2:216:CYS:O	1:2:219:GLU:HG2	1.97	0.62
1:4:104:HIS:CD2	1:4:414:ILE:HD11	2.34	0.62
1:5:104:HIS:CD2	1:5:414:ILE:HD11	2.34	0.62
1:5:287:PRO:HA	1:5:402:ILE:O	1.99	0.62
1:6:118:SER:HB3	1:6:247:THR:CG2	2.28	0.62
1:6:302:ASN:O	1:6:305:THR:OG1	2.08	0.62
1:6:525:LYS:NZ	1:7:422:ASP:OD2	2.22	0.62
1:8:104:HIS:CD2	1:8:414:ILE:HD11	2.34	0.62
1:B:258:ASN:HB2	1:J:167:LEU:HD13	1.82	0.62
1:C:419:PRO:HD3	1:M:285:TRP:CE3	2.34	0.62
1:D:167:LEU:HD13	1:P:258:ASN:HB2	1.81	0.62
1:D:285:TRP:CE3	1:N:419:PRO:HD3	2.34	0.62
1:E:268:LEU:CD1	1:Q:317:GLY:HA3	2.29	0.62
1:F:233:CYS:SG	1:F:443:ILE:HD11	2.40	0.62
1:G:56:CYS:HA	1:G:184:TYR:O	1.99	0.62
1:H:56:CYS:HA	1:H:184:TYR:O	1.99	0.62
1:H:104:HIS:CD2	1:H:414:ILE:HD11	2.34	0.62
1:J:118:SER:HB3	1:J:247:THR:CG2	2.28	0.62
1:K:104:HIS:CD2	1:K:414:ILE:HD11	2.34	0.62
1:M:104:HIS:CD2	1:M:414:ILE:HD11	2.34	0.62
1:M:327:ALA:H	1:M:377:ARG:HH21	1.47	0.62
1:N:153:THR:HG22	1:N:226:ARG:HG3	1.80	0.62
1:T:118:SER:HB3	1:T:247:THR:CG2	2.28	0.62
1:U:294:THR:HG22	1:U:307:PRO:HD3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:327:ALA:H	1:U:377:ARG:HH21	1.47	0.62
1:U:328:GLU:OE1	1:U:328:GLU:N	2.26	0.62
1:V:233:CYS:SG	1:V:443:ILE:HD11	2.40	0.62
1:V:268:LEU:CD1	1:e:317:GLY:HA3	2.29	0.62
1:X:104:HIS:CD2	1:X:414:ILE:HD11	2.34	0.62
1:a:285:TRP:CE3	1:8:419:PRO:HD3	2.34	0.62
1:c:525:LYS:NZ	1:o:422:ASP:OD2	2.22	0.62
1:d:287:PRO:HA	1:d:402:ILE:O	1.99	0.62
1:g:104:HIS:CD2	1:g:414:ILE:HD11	2.34	0.62
1:g:119:LYS:HE2	1:g:476:GLU:HG3	1.81	0.62
1:h:417:GLU:OE1	1:h:439:ALA:HB3	1.98	0.62
1:i:153:THR:HG22	1:i:226:ARG:HG3	1.80	0.62
1:i:419:PRO:HD3	1:k:285:TRP:CE3	2.34	0.62
1:k:267:ASP:OD1	1:k:271:ASN:N	2.27	0.62
1:n:104:HIS:CD2	1:n:414:ILE:HD11	2.34	0.62
1:p:233:CYS:SG	1:p:443:ILE:HD11	2.40	0.62
1:q:258:ASN:HB2	1:r:167:LEU:HD13	1.81	0.62
1:t:108:ARG:HD2	1:5:480:PHE:O	1.99	0.62
1:t:268:LEU:CD1	1:u:317:GLY:HA3	2.28	0.62
1:t:327:ALA:H	1:t:377:ARG:HH21	1.47	0.62
1:t:480:PHE:O	1:5:108:ARG:HD2	1.99	0.62
1:v:118:SER:HB3	1:v:247:THR:CG2	2.29	0.62
1:w:119:LYS:HE3	1:w:476:GLU:CG	2.29	0.62
1:x:56:CYS:HA	1:x:184:TYR:O	1.99	0.62
1:y:287:PRO:HA	1:y:402:ILE:O	1.98	0.62
1:z:294:THR:HG22	1:z:307:PRO:HD3	1.80	0.62
1:1:258:ASN:HB2	1:2:167:LEU:HD13	1.82	0.62
1:8:119:LYS:HE2	1:8:476:GLU:HG3	1.81	0.62
1:B:188:GLN:OE1	1:B:352:LYS:NZ	2.18	0.62
1:C:56:CYS:HA	1:C:184:TYR:O	1.99	0.62
1:E:119:LYS:HE3	1:E:476:GLU:CG	2.29	0.62
1:H:317:GLY:HA3	1:Y:268:LEU:CD1	2.29	0.62
1:H:327:ALA:H	1:H:377:ARG:HH21	1.47	0.62
1:H:419:PRO:HD3	1:Y:285:TRP:CE3	2.34	0.62
1:I:56:CYS:HA	1:I:184:TYR:O	1.99	0.62
1:I:233:CYS:SG	1:I:443:ILE:HD11	2.40	0.62
1:L:287:PRO:HA	1:L:402:ILE:O	1.98	0.62
1:N:285:TRP:CE3	1:P:419:PRO:HD3	2.34	0.62
1:O:104:HIS:CD2	1:O:414:ILE:HD11	2.34	0.62
1:O:294:THR:HG22	1:O:307:PRO:HD3	1.80	0.62
1:O:317:GLY:HA3	1:n:268:LEU:CD1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:258:ASN:HB2	1:S:167:LEU:HD13	1.81	0.62
1:S:287:PRO:HA	1:S:402:ILE:O	1.98	0.62
1:T:56:CYS:HA	1:T:184:TYR:O	1.99	0.62
1:T:119:LYS:HE2	1:T:476:GLU:HG3	1.81	0.62
1:T:285:TRP:CE3	1:d:419:PRO:HD3	2.34	0.62
1:U:287:PRO:HA	1:U:402:ILE:O	1.98	0.62
1:d:104:HIS:CD2	1:d:414:ILE:HD11	2.34	0.62
1:d:108:ARG:HD2	1:n:480:PHE:O	1.98	0.62
1:f:327:ALA:H	1:f:377:ARG:HH21	1.47	0.62
1:j:258:ASN:HB2	1:k:167:LEU:HD13	1.81	0.62
1:m:233:CYS:SG	1:m:443:ILE:HD11	2.40	0.62
1:p:480:PHE:O	1:s:108:ARG:HD2	1.99	0.62
1:s:287:PRO:HA	1:s:402:ILE:O	1.98	0.62
1:s:294:THR:HG22	1:s:307:PRO:HD3	1.80	0.62
1:s:328:GLU:OE1	1:s:328:GLU:N	2.26	0.62
1:u:56:CYS:HA	1:u:184:TYR:O	1.99	0.62
1:u:233:CYS:SG	1:u:443:ILE:HD11	2.40	0.62
1:v:328:GLU:HG3	1:v:331:LYS:HG3	1.81	0.62
1:z:233:CYS:SG	1:z:443:ILE:HD11	2.40	0.62
1:z:287:PRO:HA	1:z:402:ILE:O	1.98	0.62
1:3:165:PRO:HB3	1:4:251:ILE:HD11	1.79	0.62
1:4:287:PRO:HA	1:4:402:ILE:O	1.98	0.62
1:5:56:CYS:HA	1:5:184:TYR:O	1.99	0.62
1:5:233:CYS:SG	1:5:443:ILE:HD11	2.40	0.62
1:5:317:GLY:HA3	1:7:268:LEU:CD1	2.29	0.62
1:6:56:CYS:HA	1:6:184:TYR:O	1.99	0.62
1:7:119:LYS:HE3	1:7:476:GLU:CG	2.29	0.62
1:8:327:ALA:H	1:8:377:ARG:HH21	1.47	0.62
1:C:119:LYS:HE3	1:C:476:GLU:CG	2.29	0.62
1:D:480:PHE:O	1:M:108:ARG:HD2	1.99	0.62
1:E:56:CYS:HA	1:E:184:TYR:O	1.99	0.62
1:E:119:LYS:HE2	1:E:476:GLU:HG3	1.81	0.62
1:F:287:PRO:HA	1:F:402:ILE:O	1.98	0.62
1:G:327:ALA:H	1:G:377:ARG:HH21	1.47	0.62
1:H:233:CYS:SG	1:H:443:ILE:HD11	2.40	0.62
1:J:233:CYS:SG	1:J:443:ILE:HD11	2.40	0.62
1:L:233:CYS:SG	1:L:443:ILE:HD11	2.40	0.62
1:L:294:THR:HG22	1:L:307:PRO:HD3	1.80	0.62
1:M:119:LYS:HE2	1:M:476:GLU:HG3	1.81	0.62
1:M:328:GLU:HG3	1:M:331:LYS:HG3	1.81	0.62
1:O:119:LYS:HE3	1:O:476:GLU:CG	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:328:GLU:HG3	1:O:331:LYS:HG3	1.81	0.62
1:Q:108:ARG:HD2	1:R:480:PHE:O	1.98	0.62
1:Q:233:CYS:SG	1:Q:443:ILE:HD11	2.40	0.62
1:R:119:LYS:HE2	1:R:476:GLU:HG3	1.81	0.62
1:S:119:LYS:HE2	1:S:476:GLU:HG3	1.80	0.62
1:T:258:ASN:HB2	1:d:167:LEU:HD13	1.82	0.62
1:V:119:LYS:HE3	1:V:476:GLU:CG	2.29	0.62
1:W:56:CYS:HA	1:W:184:TYR:O	1.99	0.62
1:Y:119:LYS:HE2	1:Y:476:GLU:HG3	1.80	0.62
1:Y:294:THR:HG22	1:Y:307:PRO:HD3	1.80	0.62
1:Z:118:SER:O	1:Z:246:ASN:N	2.23	0.62
1:Z:268:LEU:CD1	1:4:317:GLY:HA3	2.29	0.62
1:Z:327:ALA:H	1:Z:377:ARG:HH21	1.47	0.62
1:a:56:CYS:HA	1:a:184:TYR:O	1.99	0.62
1:b:104:HIS:CD2	1:b:414:ILE:HD11	2.34	0.62
1:b:294:THR:HG22	1:b:307:PRO:HD3	1.80	0.62
1:b:327:ALA:H	1:b:377:ARG:HH21	1.47	0.62
1:d:268:LEU:CD1	1:l:317:GLY:HA3	2.30	0.62
1:d:480:PHE:O	1:n:108:ARG:HD2	1.98	0.62
1:e:56:CYS:HA	1:e:184:TYR:O	1.99	0.62
1:e:302:ASN:O	1:e:305:THR:OG1	2.08	0.62
1:f:104:HIS:CD2	1:f:414:ILE:HD11	2.34	0.62
1:g:56:CYS:HA	1:g:184:TYR:O	1.99	0.62
1:g:119:LYS:HE3	1:g:476:GLU:CG	2.29	0.62
1:h:153:THR:HG22	1:h:226:ARG:HG3	1.81	0.62
1:j:119:LYS:HE2	1:j:476:GLU:HG3	1.81	0.62
1:l:119:LYS:HE3	1:l:476:GLU:CG	2.29	0.62
1:l:328:GLU:HG3	1:l:331:LYS:HG3	1.81	0.62
1:m:56:CYS:HA	1:m:184:TYR:O	1.99	0.62
1:m:119:LYS:HE2	1:m:476:GLU:HG3	1.80	0.62
1:m:267:ASP:OD1	1:m:271:ASN:N	2.27	0.62
1:m:285:TRP:CE3	1:n:419:PRO:HD3	2.34	0.62
1:q:287:PRO:HA	1:q:402:ILE:O	1.98	0.62
1:q:480:PHE:O	1:x:108:ARG:HD2	1.98	0.62
1:r:119:LYS:HE2	1:r:476:GLU:HG3	1.80	0.62
1:r:287:PRO:HA	1:r:402:ILE:O	1.98	0.62
1:t:387:GLY:HA2	1:u:294:THR:OG1	1.99	0.62
1:w:119:LYS:HE2	1:w:476:GLU:HG3	1.81	0.62
1:x:233:CYS:SG	1:x:443:ILE:HD11	2.40	0.62
1:y:233:CYS:SG	1:y:443:ILE:HD11	2.40	0.62
1:3:56:CYS:HA	1:3:184:TYR:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:119:LYS:HE3	1:3:476:GLU:CG	2.29	0.62
1:5:327:ALA:H	1:5:377:ARG:HH21	1.47	0.62
1:5:419:PRO:HD3	1:7:285:TRP:CE3	2.34	0.62
1:A:328:GLU:HG3	1:A:331:LYS:HG3	1.81	0.62
1:B:268:LEU:CD1	1:J:317:GLY:HA3	2.29	0.62
1:C:285:TRP:CE3	1:b:419:PRO:HD3	2.34	0.62
1:C:327:ALA:H	1:C:377:ARG:HH21	1.47	0.62
1:C:480:PHE:O	1:L:108:ARG:HD2	1.99	0.62
1:D:267:ASP:OD1	1:D:271:ASN:N	2.27	0.62
1:G:119:LYS:HE3	1:G:476:GLU:CG	2.29	0.62
1:H:167:LEU:HD13	1:Y:258:ASN:HB2	1.81	0.62
1:J:119:LYS:HE2	1:J:476:GLU:HG3	1.80	0.62
1:K:251:ILE:HD11	1:a:165:PRO:HB3	1.79	0.62
1:K:258:ASN:HB2	1:a:167:LEU:HD13	1.82	0.62
1:M:153:THR:HG22	1:M:226:ARG:HG3	1.80	0.62
1:N:104:HIS:CD2	1:N:414:ILE:HD11	2.34	0.62
1:N:327:ALA:H	1:N:377:ARG:HH21	1.47	0.62
1:P:104:HIS:CD2	1:P:414:ILE:HD11	2.34	0.62
1:P:119:LYS:HE2	1:P:476:GLU:HG3	1.80	0.62
1:P:233:CYS:SG	1:P:443:ILE:HD11	2.40	0.62
1:R:328:GLU:OE1	1:R:328:GLU:N	2.26	0.62
1:S:328:GLU:OE1	1:S:328:GLU:N	2.26	0.62
1:T:233:CYS:SG	1:T:443:ILE:HD11	2.40	0.62
1:T:268:LEU:CD1	1:d:317:GLY:HA3	2.29	0.62
1:T:525:LYS:NZ	1:d:422:ASP:OD2	2.22	0.62
1:U:104:HIS:CD2	1:U:414:ILE:HD11	2.34	0.62
1:U:108:ARG:HD2	1:V:480:PHE:O	1.99	0.62
1:V:167:LEU:HD13	1:X:258:ASN:HB2	1.82	0.62
1:W:327:ALA:H	1:W:377:ARG:HH21	1.47	0.62
1:a:119:LYS:HE3	1:a:476:GLU:CG	2.29	0.62
1:c:56:CYS:HA	1:c:184:TYR:O	1.99	0.62
1:c:233:CYS:SG	1:c:443:ILE:HD11	2.40	0.62
1:c:287:PRO:HA	1:c:402:ILE:O	1.99	0.62
1:e:233:CYS:SG	1:e:443:ILE:HD11	2.40	0.62
1:g:480:PHE:O	1:z:108:ARG:HD2	1.99	0.62
1:h:108:ARG:HD2	1:k:480:PHE:O	1.99	0.62
1:h:267:ASP:OD1	1:h:271:ASN:N	2.27	0.62
1:i:119:LYS:HE2	1:i:476:GLU:HG3	1.80	0.62
1:j:233:CYS:SG	1:j:443:ILE:HD11	2.40	0.62
1:k:233:CYS:SG	1:k:443:ILE:HD11	2.40	0.62
1:l:104:HIS:CD2	1:l:414:ILE:HD11	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:258:ASN:HB2	1:p:167:LEU:HD13	1.82	0.62
1:p:119:LYS:HE3	1:p:476:GLU:CG	2.29	0.62
1:q:118:SER:O	1:q:246:ASN:N	2.23	0.62
1:s:104:HIS:CD2	1:s:414:ILE:HD11	2.34	0.62
1:t:172:GLN:NE2	1:v:257:ALA:HB1	2.15	0.62
1:t:328:GLU:HG3	1:t:331:LYS:HG3	1.81	0.62
1:x:275:ARG:HG2	1:y:81:GLU:OE1	2.00	0.62
1:2:233:CYS:SG	1:2:443:ILE:HD11	2.40	0.62
1:2:267:ASP:OD1	1:2:271:ASN:N	2.27	0.62
1:3:328:GLU:HG3	1:3:331:LYS:HG3	1.81	0.62
1:5:167:LEU:HD13	1:7:258:ASN:HB2	1.81	0.62
1:B:233:CYS:SG	1:B:443:ILE:HD11	2.40	0.62
1:C:81:GLU:OE1	1:M:275:ARG:HG2	2.00	0.62
1:D:233:CYS:SG	1:D:443:ILE:HD11	2.40	0.62
1:D:317:GLY:HA3	1:P:268:LEU:CD1	2.29	0.62
1:F:56:CYS:HA	1:F:184:TYR:O	1.99	0.62
1:F:81:GLU:OE1	1:Q:275:ARG:HG2	2.00	0.62
1:F:267:ASP:OD1	1:F:271:ASN:N	2.27	0.62
1:G:328:GLU:HG3	1:G:331:LYS:HG3	1.81	0.62
1:K:268:LEU:CD1	1:a:317:GLY:HA3	2.29	0.62
1:K:317:GLY:HA3	1:8:268:LEU:CD1	2.29	0.62
1:K:327:ALA:H	1:K:377:ARG:HH21	1.47	0.62
1:L:119:LYS:HE3	1:L:476:GLU:CG	2.29	0.62
1:N:119:LYS:HE2	1:N:476:GLU:HG3	1.80	0.62
1:Q:104:HIS:CD2	1:Q:414:ILE:HD11	2.34	0.62
1:R:56:CYS:HA	1:R:184:TYR:O	1.99	0.62
1:R:287:PRO:HA	1:R:402:ILE:O	1.98	0.62
1:V:81:GLU:OE1	1:X:275:ARG:HG2	2.00	0.62
1:W:287:PRO:HA	1:W:402:ILE:O	1.98	0.62
1:X:167:LEU:HD13	1:e:258:ASN:HB2	1.82	0.62
1:a:268:LEU:CD1	1:8:317:GLY:HA3	2.30	0.62
1:d:275:ARG:HG2	1:l:81:GLU:OE1	2.00	0.62
1:e:287:PRO:HA	1:e:402:ILE:O	1.99	0.62
1:f:165:PRO:HB3	1:g:251:ILE:HD11	1.79	0.62
1:f:419:PRO:HD3	1:g:285:TRP:CE3	2.34	0.62
1:g:81:GLU:OE1	1:h:275:ARG:HG2	2.00	0.62
1:i:81:GLU:OE1	1:k:275:ARG:HG2	2.00	0.62
1:i:104:HIS:CD2	1:i:414:ILE:HD11	2.34	0.62
1:i:119:LYS:HE3	1:i:476:GLU:CG	2.29	0.62
1:i:327:ALA:H	1:i:377:ARG:HH21	1.47	0.62
1:j:104:HIS:CD2	1:j:414:ILE:HD11	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:268:LEU:CD1	1:k:317:GLY:HA3	2.29	0.62
1:m:258:ASN:HB2	1:n:167:LEU:HD13	1.82	0.62
1:m:268:LEU:CD1	1:n:317:GLY:HA3	2.29	0.62
1:n:119:LYS:HE2	1:n:476:GLU:HG3	1.80	0.62
1:q:119:LYS:HE3	1:q:476:GLU:CG	2.29	0.62
1:q:119:LYS:HE2	1:q:476:GLU:HG3	1.81	0.62
1:u:480:PHE:O	1:1:108:ARG:HD2	1.99	0.62
1:v:119:LYS:HE2	1:v:476:GLU:HG3	1.80	0.62
1:v:188:GLN:OE1	1:v:352:LYS:NZ	2.18	0.62
1:x:104:HIS:CD2	1:x:414:ILE:HD11	2.34	0.62
1:y:104:HIS:CD2	1:y:414:ILE:HD11	2.34	0.62
1:1:525:LYS:NZ	1:2:422:ASP:OD2	2.22	0.62
1:2:188:GLN:OE1	1:2:352:LYS:NZ	2.18	0.62
1:3:167:LEU:HD13	1:4:258:ASN:HB2	1.82	0.62
1:4:233:CYS:SG	1:4:443:ILE:HD11	2.40	0.62
1:6:327:ALA:H	1:6:377:ARG:HH21	1.47	0.62
1:7:294:THR:HG22	1:7:307:PRO:HD3	1.80	0.62
1:8:302:ASN:O	1:8:305:THR:OG1	2.08	0.62
1:A:119:LYS:HE2	1:A:476:GLU:HG3	1.80	0.62
1:B:387:GLY:HA2	1:J:294:THR:OG1	2.00	0.62
1:C:251:ILE:HD11	1:b:165:PRO:HB3	1.79	0.62
1:F:104:HIS:CD2	1:F:414:ILE:HD11	2.34	0.62
1:J:328:GLU:OE1	1:J:328:GLU:N	2.26	0.62
1:K:233:CYS:SG	1:K:443:ILE:HD11	2.40	0.62
1:M:119:LYS:HE3	1:M:476:GLU:CG	2.29	0.62
1:M:294:THR:OG1	1:b:387:GLY:HA2	2.00	0.62
1:S:268:LEU:CD1	1:U:317:GLY:HA3	2.29	0.62
1:V:275:ARG:HG2	1:e:81:GLU:OE1	2.00	0.62
1:Z:317:GLY:HA3	1:3:268:LEU:CD1	2.30	0.62
1:a:328:GLU:HG3	1:a:331:LYS:HG3	1.81	0.62
1:c:81:GLU:OE1	1:p:275:ARG:HG2	2.00	0.62
1:c:258:ASN:HB2	1:o:167:LEU:HD13	1.82	0.62
1:d:56:CYS:HA	1:d:184:TYR:O	1.99	0.62
1:f:294:THR:HG22	1:f:307:PRO:HD3	1.80	0.62
1:f:387:GLY:HA2	1:h:294:THR:OG1	2.00	0.62
1:h:328:GLU:HG3	1:h:331:LYS:HG3	1.81	0.62
1:k:327:ALA:H	1:k:377:ARG:HH21	1.47	0.62
1:l:119:LYS:HE2	1:l:476:GLU:HG3	1.80	0.62
1:o:275:ARG:HG2	1:p:81:GLU:OE1	2.00	0.62
1:q:56:CYS:HA	1:q:184:TYR:O	1.99	0.62
1:q:153:THR:HG22	1:q:226:ARG:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:119:LYS:HE3	1:t:476:GLU:CG	2.29	0.62
1:u:258:ASN:HB2	1:v:167:LEU:HD13	1.82	0.62
1:y:56:CYS:HA	1:y:184:TYR:O	1.99	0.62
1:z:119:LYS:HE3	1:z:476:GLU:CG	2.29	0.62
1:z:285:TRP:CE3	1:1:419:PRO:HD3	2.34	0.62
1:1:188:GLN:OE1	1:1:352:LYS:NZ	2.18	0.62
1:1:268:LEU:CD1	1:2:317:GLY:HA3	2.29	0.62
1:2:119:LYS:HE2	1:2:476:GLU:HG3	1.80	0.62
1:3:317:GLY:HA3	1:4:268:LEU:CD1	2.29	0.62
1:6:287:PRO:HA	1:6:402:ILE:O	1.98	0.62
1:7:119:LYS:HE2	1:7:476:GLU:HG3	1.80	0.62
1:8:56:CYS:HA	1:8:184:TYR:O	1.99	0.62
1:B:108:ARG:HD2	1:I:480:PHE:O	1.99	0.62
1:B:275:ARG:HG2	1:J:81:GLU:OE1	2.00	0.62
1:B:419:PRO:HD3	1:L:285:TRP:CE3	2.34	0.62
1:D:275:ARG:HG2	1:N:81:GLU:OE1	2.00	0.62
1:E:525:LYS:NZ	1:Q:422:ASP:OD2	2.22	0.62
1:F:119:LYS:HE3	1:F:476:GLU:CG	2.29	0.62
1:G:268:LEU:CD1	1:I:317:GLY:HA3	2.29	0.62
1:I:302:ASN:O	1:I:305:THR:OG1	2.08	0.62
1:J:267:ASP:OD1	1:J:271:ASN:N	2.27	0.62
1:N:119:LYS:HE3	1:N:476:GLU:CG	2.29	0.62
1:R:119:LYS:HE3	1:R:476:GLU:CG	2.29	0.62
1:R:153:THR:HG22	1:R:226:ARG:HG3	1.81	0.62
1:R:387:GLY:HA2	1:S:294:THR:OG1	2.00	0.62
1:T:294:THR:HG22	1:T:307:PRO:HD3	1.80	0.62
1:Z:56:CYS:HA	1:Z:184:TYR:O	1.99	0.62
1:Z:81:GLU:OE1	1:3:275:ARG:HG2	2.00	0.62
1:Z:294:THR:OG1	1:3:387:GLY:HA2	2.00	0.62
1:d:119:LYS:HE2	1:d:476:GLU:HG3	1.80	0.62
1:f:167:LEU:HD13	1:g:258:ASN:HB2	1.82	0.62
1:g:327:ALA:H	1:g:377:ARG:HH21	1.47	0.62
1:h:119:LYS:HE3	1:h:476:GLU:CG	2.29	0.62
1:i:525:LYS:NZ	1:j:422:ASP:OD2	2.22	0.62
1:q:387:GLY:HA2	1:r:294:THR:OG1	2.00	0.62
1:r:268:LEU:CD1	1:s:317:GLY:HA3	2.29	0.62
1:r:328:GLU:HG3	1:r:331:LYS:HG3	1.81	0.62
1:r:328:GLU:OE1	1:r:328:GLU:N	2.26	0.62
1:u:119:LYS:HE2	1:u:476:GLU:HG3	1.80	0.62
1:w:167:LEU:HD13	1:y:258:ASN:HB2	1.82	0.62
1:x:327:ALA:H	1:x:377:ARG:HH21	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:119:LYS:HE3	1:y:476:GLU:CG	2.29	0.62
1:y:267:ASP:OD1	1:y:271:ASN:N	2.27	0.62
1:z:387:GLY:HA2	1:1:294:THR:OG1	2.00	0.62
1:1:233:CYS:SG	1:1:443:ILE:HD11	2.40	0.62
1:1:387:GLY:HA2	1:2:294:THR:OG1	2.00	0.62
1:4:294:THR:HG22	1:4:307:PRO:HD3	1.80	0.62
1:4:327:ALA:H	1:4:377:ARG:HH21	1.47	0.62
1:8:118:SER:O	1:8:246:ASN:N	2.23	0.62
1:8:233:CYS:SG	1:8:443:ILE:HD11	2.40	0.62
1:B:294:THR:OG1	1:L:387:GLY:HA2	2.00	0.62
1:C:258:ASN:HB2	1:b:167:LEU:HD13	1.82	0.62
1:D:81:GLU:OE1	1:P:275:ARG:HG2	2.00	0.62
1:D:327:ALA:H	1:D:377:ARG:HH21	1.47	0.62
1:F:71:ASN:HB3	1:F:86:TRP:CD1	2.35	0.62
1:F:119:LYS:HE2	1:F:476:GLU:HG3	1.80	0.62
1:G:287:PRO:HA	1:G:402:ILE:O	1.98	0.62
1:H:119:LYS:HE2	1:H:476:GLU:HG3	1.80	0.62
1:I:328:GLU:HG3	1:I:331:LYS:HG3	1.81	0.62
1:J:327:ALA:H	1:J:377:ARG:HH21	1.47	0.62
1:L:153:THR:HG22	1:L:226:ARG:HG3	1.81	0.62
1:O:81:GLU:OE1	1:n:275:ARG:HG2	2.00	0.62
1:R:302:ASN:O	1:R:305:THR:OG1	2.08	0.62
1:S:328:GLU:HG3	1:S:331:LYS:HG3	1.81	0.62
1:U:119:LYS:HE3	1:U:476:GLU:CG	2.29	0.62
1:V:71:ASN:HB3	1:V:86:TRP:CD1	2.35	0.62
1:V:328:GLU:OE1	1:V:328:GLU:N	2.26	0.62
1:X:188:GLN:OE1	1:X:352:LYS:NZ	2.18	0.62
1:Z:233:CYS:SG	1:Z:443:ILE:HD11	2.40	0.62
1:a:275:ARG:HG2	1:8:81:GLU:OE1	2.00	0.62
1:a:387:GLY:HA2	1:8:294:THR:OG1	2.00	0.62
1:f:267:ASP:OD1	1:f:271:ASN:N	2.27	0.62
1:m:294:THR:HG22	1:m:307:PRO:HD3	1.80	0.62
1:n:56:CYS:HA	1:n:184:TYR:O	1.99	0.62
1:p:71:ASN:HB3	1:p:86:TRP:CD1	2.35	0.62
1:q:328:GLU:OE1	1:q:328:GLU:N	2.26	0.62
1:s:119:LYS:HE3	1:s:476:GLU:CG	2.29	0.62
1:u:153:THR:HG22	1:u:226:ARG:HG3	1.80	0.62
1:v:119:LYS:HE3	1:v:476:GLU:CG	2.29	0.62
1:v:327:ALA:H	1:v:377:ARG:HH21	1.47	0.62
1:y:71:ASN:HB3	1:y:86:TRP:CD1	2.35	0.62
1:y:119:LYS:HE2	1:y:476:GLU:HG3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:153:THR:HG22	1:z:226:ARG:HG3	1.81	0.62
1:1:275:ARG:HG2	1:2:81:GLU:OE1	2.00	0.62
1:2:108:ARG:HD2	1:4:480:PHE:O	1.99	0.62
1:4:71:ASN:HB3	1:4:86:TRP:CD1	2.35	0.62
1:5:119:LYS:HE2	1:5:476:GLU:HG3	1.80	0.62
1:8:71:ASN:HB3	1:8:86:TRP:CD1	2.35	0.62
1:A:149:ASP:OD2	1:A:461:GLU:OE2	2.18	0.61
1:A:327:ALA:H	1:A:377:ARG:HH21	1.47	0.61
1:D:258:ASN:HB2	1:N:167:LEU:HD13	1.81	0.61
1:D:268:LEU:CD1	1:N:317:GLY:HA3	2.29	0.61
1:E:167:LEU:HD13	1:F:258:ASN:HB2	1.82	0.61
1:E:317:GLY:HA3	1:F:268:LEU:CD1	2.29	0.61
1:E:387:GLY:HA2	1:Q:294:THR:OG1	2.00	0.61
1:G:104:HIS:CD2	1:G:414:ILE:HD11	2.34	0.61
1:G:275:ARG:HG2	1:I:81:GLU:OE1	2.00	0.61
1:I:119:LYS:HE2	1:I:476:GLU:HG3	1.81	0.61
1:I:328:GLU:OE1	1:I:328:GLU:N	2.26	0.61
1:J:108:ARG:HD2	1:K:480:PHE:O	1.98	0.61
1:K:71:ASN:HB3	1:K:86:TRP:CD1	2.35	0.61
1:K:294:THR:HG22	1:K:307:PRO:HD3	1.80	0.61
1:L:328:GLU:HG3	1:L:331:LYS:HG3	1.81	0.61
1:N:71:ASN:HB3	1:N:86:TRP:CD1	2.35	0.61
1:N:149:ASP:OD2	1:N:461:GLU:OE2	2.18	0.61
1:N:525:LYS:NZ	1:P:422:ASP:OD2	2.22	0.61
1:O:119:LYS:HE2	1:O:476:GLU:HG3	1.80	0.61
1:O:153:THR:HG22	1:O:226:ARG:HG3	1.80	0.61
1:Q:327:ALA:H	1:Q:377:ARG:HH21	1.47	0.61
1:S:275:ARG:HG2	1:U:81:GLU:OE1	2.00	0.61
1:S:387:GLY:HA2	1:U:294:THR:OG1	2.00	0.61
1:T:81:GLU:OE1	1:l:275:ARG:HG2	2.00	0.61
1:T:275:ARG:HG2	1:d:81:GLU:OE1	2.00	0.61
1:U:267:ASP:OD1	1:U:271:ASN:N	2.27	0.61
1:X:81:GLU:OE1	1:e:275:ARG:HG2	2.00	0.61
1:X:233:CYS:SG	1:X:443:ILE:HD11	2.40	0.61
1:X:328:GLU:OE1	1:X:328:GLU:N	2.26	0.61
1:Z:71:ASN:HB3	1:Z:86:TRP:CD1	2.35	0.61
1:Z:153:THR:HG22	1:Z:226:ARG:HG3	1.81	0.61
1:b:119:LYS:HE2	1:b:476:GLU:HG3	1.80	0.61
1:c:104:HIS:CD2	1:c:414:ILE:HD11	2.34	0.61
1:c:275:ARG:HG2	1:o:81:GLU:OE1	2.00	0.61
1:d:188:GLN:OE1	1:d:352:LYS:NZ	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:294:THR:HG22	1:e:307:PRO:HD3	1.80	0.61
1:f:119:LYS:HE3	1:f:476:GLU:CG	2.29	0.61
1:i:71:ASN:HB3	1:i:86:TRP:CD1	2.35	0.61
1:l:233:CYS:SG	1:l:443:ILE:HD11	2.40	0.61
1:o:233:CYS:SG	1:o:443:ILE:HD11	2.40	0.61
1:o:328:GLU:OE1	1:o:328:GLU:N	2.26	0.61
1:s:267:ASP:OD1	1:s:271:ASN:N	2.27	0.61
1:u:302:ASN:O	1:u:305:THR:OG1	2.08	0.61
1:u:328:GLU:HG3	1:u:331:LYS:HG3	1.81	0.61
1:v:149:ASP:OD2	1:v:461:GLU:OE2	2.18	0.61
1:w:317:GLY:HA3	1:y:268:LEU:CD1	2.29	0.61
1:2:327:ALA:H	1:2:377:ARG:HH21	1.47	0.61
1:2:328:GLU:OE1	1:2:328:GLU:N	2.26	0.61
1:3:104:HIS:CD2	1:3:414:ILE:HD11	2.34	0.61
1:5:71:ASN:HB3	1:5:86:TRP:CD1	2.35	0.61
1:6:233:CYS:SG	1:6:443:ILE:HD11	2.40	0.61
1:8:153:THR:HG22	1:8:226:ARG:HG3	1.80	0.61
1:A:119:LYS:HE3	1:A:476:GLU:CG	2.29	0.61
1:A:233:CYS:SG	1:A:443:ILE:HD11	2.40	0.61
1:C:149:ASP:OD2	1:C:461:GLU:OE2	2.18	0.61
1:C:233:CYS:SG	1:C:443:ILE:HD11	2.40	0.61
1:C:294:THR:OG1	1:M:387:GLY:HA2	2.00	0.61
1:C:387:GLY:HA2	1:b:294:THR:OG1	2.00	0.61
1:D:387:GLY:HA2	1:N:294:THR:OG1	2.00	0.61
1:E:203:ASP:CG	1:E:204:ILE:N	2.59	0.61
1:E:233:CYS:SG	1:E:443:ILE:HD11	2.40	0.61
1:G:286:LEU:HD11	1:G:398:ILE:CG1	2.31	0.61
1:H:71:ASN:HB3	1:H:86:TRP:CD1	2.35	0.61
1:H:149:ASP:OD2	1:H:461:GLU:OE2	2.18	0.61
1:I:71:ASN:HB3	1:I:86:TRP:CD1	2.35	0.61
1:I:149:ASP:OD2	1:I:461:GLU:OE2	2.18	0.61
1:I:153:THR:HG22	1:I:226:ARG:HG3	1.80	0.61
1:J:119:LYS:HE3	1:J:476:GLU:CG	2.29	0.61
1:J:149:ASP:OD2	1:J:461:GLU:OE2	2.18	0.61
1:J:188:GLN:OE1	1:J:352:LYS:NZ	2.18	0.61
1:L:104:HIS:CD2	1:L:414:ILE:HD11	2.34	0.61
1:O:233:CYS:SG	1:O:443:ILE:HD11	2.40	0.61
1:O:275:ARG:HG2	1:m:81:GLU:OE1	2.00	0.61
1:P:119:LYS:HE3	1:P:476:GLU:CG	2.29	0.61
1:Q:267:ASP:OD1	1:Q:271:ASN:N	2.27	0.61
1:R:167:LEU:HD13	1:U:258:ASN:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:275:ARG:HG2	1:S:81:GLU:OE1	2.00	0.61
1:T:327:ALA:H	1:T:377:ARG:HH21	1.47	0.61
1:U:149:ASP:OD2	1:U:461:GLU:OE2	2.18	0.61
1:W:233:CYS:SG	1:W:443:ILE:HD11	2.40	0.61
1:a:104:HIS:CD2	1:a:414:ILE:HD11	2.34	0.61
1:a:118:SER:O	1:a:246:ASN:N	2.23	0.61
1:b:149:ASP:OD2	1:b:461:GLU:OE2	2.19	0.61
1:e:104:HIS:CD2	1:e:414:ILE:HD11	2.34	0.61
1:e:153:THR:HG22	1:e:226:ARG:HG3	1.81	0.61
1:f:119:LYS:HE2	1:f:476:GLU:HG3	1.80	0.61
1:f:149:ASP:OD2	1:f:461:GLU:OE2	2.19	0.61
1:f:294:THR:OG1	1:g:387:GLY:HA2	2.00	0.61
1:g:149:ASP:OD2	1:g:461:GLU:OE2	2.18	0.61
1:g:233:CYS:SG	1:g:443:ILE:HD11	2.40	0.61
1:g:294:THR:OG1	1:h:387:GLY:HA2	2.00	0.61
1:i:149:ASP:OD2	1:i:461:GLU:OE2	2.18	0.61
1:i:167:LEU:HD13	1:k:258:ASN:HB2	1.82	0.61
1:i:317:GLY:HA3	1:k:268:LEU:CD1	2.29	0.61
1:j:71:ASN:HB3	1:j:86:TRP:CD1	2.35	0.61
1:j:119:LYS:HE3	1:j:476:GLU:CG	2.29	0.61
1:l:153:THR:HG22	1:l:226:ARG:HG3	1.81	0.61
1:m:275:ARG:HG2	1:n:81:GLU:OE1	2.00	0.61
1:m:327:ALA:H	1:m:377:ARG:HH21	1.47	0.61
1:o:149:ASP:OD2	1:o:461:GLU:OE2	2.18	0.61
1:p:286:LEU:HD11	1:p:398:ILE:CG1	2.31	0.61
1:r:275:ARG:HG2	1:s:81:GLU:OE1	2.00	0.61
1:r:387:GLY:HA2	1:s:294:THR:OG1	2.00	0.61
1:s:149:ASP:OD2	1:s:461:GLU:OE2	2.18	0.61
1:t:286:LEU:HD11	1:t:398:ILE:CG1	2.31	0.61
1:t:287:PRO:HA	1:t:402:ILE:O	1.98	0.61
1:u:71:ASN:HB3	1:u:86:TRP:CD1	2.35	0.61
1:v:71:ASN:HB3	1:v:86:TRP:CD1	2.35	0.61
1:v:118:SER:O	1:v:246:ASN:N	2.23	0.61
1:w:203:ASP:CG	1:w:204:ILE:N	2.59	0.61
1:w:233:CYS:SG	1:w:443:ILE:HD11	2.40	0.61
1:w:387:GLY:HA2	1:x:294:THR:OG1	2.00	0.61
1:x:267:ASP:OD1	1:x:271:ASN:N	2.27	0.61
1:z:104:HIS:CD2	1:z:414:ILE:HD11	2.34	0.61
1:z:294:THR:OG1	1:2:387:GLY:HA2	2.00	0.61
1:5:149:ASP:OD2	1:5:461:GLU:OE2	2.18	0.61
1:A:71:ASN:HB3	1:A:86:TRP:CD1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:SER:O	1:A:246:ASN:N	2.23	0.61
1:G:233:CYS:SG	1:G:443:ILE:HD11	2.40	0.61
1:H:81:GLU:OE1	1:Y:275:ARG:HG2	2.00	0.61
1:H:225:LEU:HD22	1:H:229:ASN:HB3	1.83	0.61
1:I:286:LEU:HD11	1:I:398:ILE:CG1	2.31	0.61
1:J:387:GLY:HA2	1:L:294:THR:OG1	2.00	0.61
1:L:286:LEU:HD11	1:L:398:ILE:CG1	2.31	0.61
1:M:302:ASN:O	1:M:305:THR:OG1	2.08	0.61
1:N:387:GLY:HA2	1:P:294:THR:OG1	2.00	0.61
1:O:225:LEU:HD22	1:O:229:ASN:HB3	1.83	0.61
1:P:71:ASN:HB3	1:P:86:TRP:CD1	2.35	0.61
1:R:71:ASN:HB3	1:R:86:TRP:CD1	2.35	0.61
1:R:286:LEU:HD11	1:R:398:ILE:CG1	2.31	0.61
1:R:294:THR:OG1	1:U:387:GLY:HA2	2.00	0.61
1:S:149:ASP:OD2	1:S:461:GLU:OE2	2.18	0.61
1:T:78:PHE:O	1:T:300:GLY:HA2	2.01	0.61
1:U:153:THR:HG22	1:U:226:ARG:HG3	1.81	0.61
1:V:119:LYS:HE2	1:V:476:GLU:HG3	1.81	0.61
1:V:286:LEU:HD11	1:V:398:ILE:CG1	2.31	0.61
1:X:149:ASP:OD2	1:X:461:GLU:OE2	2.18	0.61
1:Y:286:LEU:HD11	1:Y:398:ILE:CG1	2.31	0.61
1:Z:167:LEU:HD13	1:3:258:ASN:HB2	1.82	0.61
1:a:258:ASN:HB2	1:8:167:LEU:HD13	1.82	0.61
1:b:267:ASP:OD1	1:b:271:ASN:N	2.27	0.61
1:c:294:THR:HG22	1:c:307:PRO:HD3	1.80	0.61
1:e:71:ASN:HB3	1:e:86:TRP:CD1	2.35	0.61
1:f:233:CYS:SG	1:f:443:ILE:HD11	2.40	0.61
1:i:294:THR:OG1	1:k:387:GLY:HA2	2.00	0.61
1:i:387:GLY:HA2	1:j:294:THR:OG1	2.00	0.61
1:j:275:ARG:HG2	1:k:81:GLU:OE1	2.00	0.61
1:k:119:LYS:HE3	1:k:476:GLU:CG	2.29	0.61
1:l:225:LEU:HD22	1:l:229:ASN:HB3	1.83	0.61
1:q:167:LEU:HD13	1:s:258:ASN:HB2	1.82	0.61
1:q:302:ASN:O	1:q:305:THR:OG1	2.08	0.61
1:r:149:ASP:OD2	1:r:461:GLU:OE2	2.18	0.61
1:s:153:THR:HG22	1:s:226:ARG:HG3	1.81	0.61
1:t:104:HIS:CD2	1:t:414:ILE:HD11	2.34	0.61
1:u:149:ASP:OD2	1:u:461:GLU:OE2	2.18	0.61
1:u:225:LEU:HD22	1:u:229:ASN:HB3	1.82	0.61
1:u:286:LEU:HD11	1:u:398:ILE:CG1	2.31	0.61
1:z:286:LEU:HD11	1:z:398:ILE:CG1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:328:GLU:HG3	1:z:331:LYS:HG3	1.81	0.61
1:2:119:LYS:HE3	1:2:476:GLU:CG	2.29	0.61
1:2:149:ASP:OD2	1:2:461:GLU:OE2	2.18	0.61
1:4:328:GLU:HG3	1:4:331:LYS:HG3	1.81	0.61
1:5:81:GLU:OE1	1:7:275:ARG:HG2	2.00	0.61
1:6:119:LYS:HE3	1:6:476:GLU:CG	2.29	0.61
1:6:387:GLY:HA2	1:7:294:THR:OG1	2.00	0.61
1:7:78:PHE:O	1:7:300:GLY:HA2	2.01	0.61
1:7:286:LEU:HD11	1:7:398:ILE:CG1	2.31	0.61
1:8:119:LYS:HE3	1:8:476:GLU:CG	2.29	0.61
1:A:104:HIS:CD2	1:A:414:ILE:HD11	2.34	0.61
1:A:316:MET:HE1	1:I:285:TRP:CD1	2.34	0.61
1:D:71:ASN:HB3	1:D:86:TRP:CD1	2.35	0.61
1:D:119:LYS:HE3	1:D:476:GLU:CG	2.29	0.61
1:F:286:LEU:HD11	1:F:398:ILE:CG1	2.31	0.61
1:L:149:ASP:OD2	1:L:461:GLU:OE2	2.18	0.61
1:N:233:CYS:SG	1:N:443:ILE:HD11	2.40	0.61
1:N:275:ARG:HG2	1:P:81:GLU:OE1	2.00	0.61
1:O:286:LEU:HD11	1:O:398:ILE:CG1	2.31	0.61
1:S:233:CYS:SG	1:S:443:ILE:HD11	2.40	0.61
1:S:286:LEU:HD11	1:S:398:ILE:CG1	2.31	0.61
1:T:326:ARG:NE	1:T:328:GLU:OE2	2.34	0.61
1:U:78:PHE:O	1:U:300:GLY:HA2	2.01	0.61
1:W:387:GLY:HA2	1:Y:294:THR:OG1	2.00	0.61
1:Z:119:LYS:HE3	1:Z:476:GLU:CG	2.29	0.61
1:a:78:PHE:O	1:a:300:GLY:HA2	2.01	0.61
1:b:119:LYS:HE3	1:b:476:GLU:CG	2.29	0.61
1:b:233:CYS:SG	1:b:443:ILE:HD11	2.40	0.61
1:b:286:LEU:HD11	1:b:398:ILE:CG1	2.31	0.61
1:c:71:ASN:HB3	1:c:86:TRP:CD1	2.35	0.61
1:c:153:THR:HG22	1:c:226:ARG:HG3	1.81	0.61
1:d:225:LEU:HD22	1:d:229:ASN:HB3	1.83	0.61
1:d:233:CYS:SG	1:d:443:ILE:HD11	2.40	0.61
1:d:326:ARG:NE	1:d:328:GLU:OE2	2.34	0.61
1:g:71:ASN:HB3	1:g:86:TRP:CD1	2.35	0.61
1:h:233:CYS:SG	1:h:443:ILE:HD11	2.40	0.61
1:h:302:ASN:O	1:h:305:THR:OG1	2.08	0.61
1:i:233:CYS:SG	1:i:443:ILE:HD11	2.40	0.61
1:i:265:GLN:NE2	1:j:431:MET:HE2	2.16	0.61
1:k:71:ASN:HB3	1:k:86:TRP:CD1	2.35	0.61
1:l:286:LEU:HD11	1:l:398:ILE:CG1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:78:PHE:O	1:m:300:GLY:HA2	2.01	0.61
1:m:326:ARG:NE	1:m:328:GLU:OE2	2.34	0.61
1:n:188:GLN:OE1	1:n:352:LYS:NZ	2.18	0.61
1:n:225:LEU:HD22	1:n:229:ASN:HB3	1.83	0.61
1:n:233:CYS:SG	1:n:443:ILE:HD11	2.40	0.61
1:p:328:GLU:OE1	1:p:328:GLU:N	2.26	0.61
1:q:71:ASN:HB3	1:q:86:TRP:CD1	2.35	0.61
1:q:275:ARG:HG2	1:r:81:GLU:OE1	2.00	0.61
1:q:286:LEU:HD11	1:q:398:ILE:CG1	2.31	0.61
1:q:294:THR:OG1	1:s:387:GLY:HA2	2.00	0.61
1:s:78:PHE:O	1:s:300:GLY:HA2	2.01	0.61
1:t:233:CYS:SG	1:t:443:ILE:HD11	2.40	0.61
1:t:317:GLY:HA3	1:v:268:LEU:CD1	2.31	0.61
1:u:275:ARG:HG2	1:v:81:GLU:OE1	2.00	0.61
1:v:104:HIS:CD2	1:v:414:ILE:HD11	2.34	0.61
1:v:233:CYS:SG	1:v:443:ILE:HD11	2.40	0.61
1:w:265:GLN:NE2	1:x:431:MET:HE2	2.16	0.61
1:w:327:ALA:H	1:w:377:ARG:HH21	1.47	0.61
1:y:286:LEU:HD11	1:y:398:ILE:CG1	2.31	0.61
1:z:81:GLU:OE1	1:2:275:ARG:HG2	2.00	0.61
1:1:119:LYS:HE2	1:1:476:GLU:HG3	1.80	0.61
1:3:78:PHE:O	1:3:300:GLY:HA2	2.01	0.61
1:5:225:LEU:HD22	1:5:229:ASN:HB3	1.83	0.61
1:5:286:LEU:HD11	1:5:398:ILE:CG1	2.31	0.61
1:7:326:ARG:NE	1:7:328:GLU:OE2	2.34	0.61
1:8:225:LEU:HD22	1:8:229:ASN:HB3	1.83	0.61
1:A:317:GLY:HA3	1:I:268:LEU:CD1	2.31	0.61
1:B:149:ASP:OD2	1:B:461:GLU:OE2	2.18	0.61
1:B:326:ARG:NE	1:B:328:GLU:OE2	2.34	0.61
1:C:71:ASN:HB3	1:C:86:TRP:CD1	2.35	0.61
1:E:71:ASN:HB3	1:E:86:TRP:CD1	2.35	0.61
1:E:265:GLN:NE2	1:Q:431:MET:HE2	2.16	0.61
1:E:327:ALA:H	1:E:377:ARG:HH21	1.47	0.61
1:G:78:PHE:O	1:G:300:GLY:HA2	2.01	0.61
1:G:258:ASN:HB2	1:I:167:LEU:HD13	1.82	0.61
1:H:118:SER:O	1:H:246:ASN:N	2.23	0.61
1:H:286:LEU:HD11	1:H:398:ILE:CG1	2.31	0.61
1:K:203:ASP:CG	1:K:204:ILE:N	2.59	0.61
1:M:233:CYS:SG	1:M:443:ILE:HD11	2.40	0.61
1:M:286:LEU:HD11	1:M:398:ILE:CG1	2.31	0.61
1:M:431:MET:HE2	1:b:265:GLN:NE2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:265:GLN:NE2	1:P:431:MET:HE2	2.16	0.61
1:S:225:LEU:HD22	1:S:229:ASN:HB3	1.83	0.61
1:V:326:ARG:NE	1:V:328:GLU:OE2	2.34	0.61
1:W:119:LYS:HE3	1:W:476:GLU:CG	2.29	0.61
1:X:286:LEU:HD11	1:X:398:ILE:CG1	2.31	0.61
1:Y:78:PHE:O	1:Y:300:GLY:HA2	2.01	0.61
1:Y:233:CYS:SG	1:Y:443:ILE:HD11	2.40	0.61
1:Y:326:ARG:NE	1:Y:328:GLU:OE2	2.34	0.61
1:Z:225:LEU:HD22	1:Z:229:ASN:HB3	1.83	0.61
1:Z:267:ASP:OD1	1:Z:271:ASN:N	2.27	0.61
1:a:326:ARG:NE	1:a:328:GLU:OE2	2.34	0.61
1:b:71:ASN:HB3	1:b:86:TRP:CD1	2.35	0.61
1:b:78:PHE:O	1:b:300:GLY:HA2	2.01	0.61
1:c:203:ASP:CG	1:c:204:ILE:N	2.59	0.61
1:e:203:ASP:CG	1:e:204:ILE:N	2.59	0.61
1:f:71:ASN:HB3	1:f:86:TRP:CD1	2.35	0.61
1:f:286:LEU:HD11	1:f:398:ILE:CG1	2.31	0.61
1:h:71:ASN:HB3	1:h:86:TRP:CD1	2.35	0.61
1:i:275:ARG:HG2	1:j:81:GLU:OE1	2.00	0.61
1:j:225:LEU:HD22	1:j:229:ASN:HB3	1.82	0.61
1:j:294:THR:HG22	1:j:307:PRO:HD3	1.80	0.61
1:k:203:ASP:CG	1:k:204:ILE:N	2.59	0.61
1:n:326:ARG:NE	1:n:328:GLU:OE2	2.34	0.61
1:o:286:LEU:HD11	1:o:398:ILE:CG1	2.31	0.61
1:p:119:LYS:HE2	1:p:476:GLU:HG3	1.81	0.61
1:p:326:ARG:NE	1:p:328:GLU:OE2	2.34	0.61
1:q:104:HIS:CD2	1:q:414:ILE:HD11	2.34	0.61
1:r:233:CYS:SG	1:r:443:ILE:HD11	2.40	0.61
1:r:286:LEU:HD11	1:r:398:ILE:CG1	2.31	0.61
1:u:328:GLU:OE1	1:u:328:GLU:N	2.26	0.61
1:u:387:GLY:HA2	1:v:294:THR:OG1	2.00	0.61
1:w:71:ASN:HB3	1:w:86:TRP:CD1	2.35	0.61
1:z:149:ASP:OD2	1:z:461:GLU:OE2	2.18	0.61
1:3:267:ASP:OD1	1:3:271:ASN:N	2.27	0.61
1:A:326:ARG:NE	1:A:328:GLU:OE2	2.34	0.61
1:B:118:SER:O	1:B:246:ASN:N	2.23	0.61
1:B:119:LYS:HE2	1:B:476:GLU:HG3	1.80	0.61
1:B:317:GLY:HA3	1:L:268:LEU:CD1	2.29	0.61
1:B:327:ALA:H	1:B:377:ARG:HH21	1.47	0.61
1:C:431:MET:HE2	1:M:265:GLN:NE2	2.16	0.61
1:D:203:ASP:CG	1:D:204:ILE:N	2.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:286:LEU:HD11	1:D:398:ILE:CG1	2.31	0.61
1:F:294:THR:OG1	1:Q:387:GLY:HA2	2.01	0.61
1:I:104:HIS:CD2	1:I:414:ILE:HD11	2.34	0.61
1:I:119:LYS:HE3	1:I:476:GLU:CG	2.29	0.61
1:I:225:LEU:HD22	1:I:229:ASN:HB3	1.83	0.61
1:J:275:ARG:HG2	1:L:81:GLU:OE1	2.00	0.61
1:J:326:ARG:NE	1:J:328:GLU:OE2	2.34	0.61
1:K:149:ASP:OD2	1:K:461:GLU:OE2	2.18	0.61
1:K:328:GLU:HG3	1:K:331:LYS:HG3	1.81	0.61
1:L:326:ARG:NE	1:L:328:GLU:OE2	2.34	0.61
1:M:78:PHE:O	1:M:300:GLY:HA2	2.01	0.61
1:N:326:ARG:NE	1:N:328:GLU:OE2	2.34	0.61
1:O:71:ASN:HB3	1:O:86:TRP:CD1	2.35	0.61
1:P:225:LEU:HD22	1:P:229:ASN:HB3	1.83	0.61
1:P:294:THR:HG22	1:P:307:PRO:HD3	1.80	0.61
1:R:104:HIS:CD2	1:R:414:ILE:HD11	2.34	0.61
1:V:225:LEU:HD22	1:V:229:ASN:HB3	1.83	0.61
1:W:203:ASP:CG	1:W:204:ILE:N	2.59	0.61
1:a:327:ALA:H	1:a:377:ARG:HH21	1.47	0.61
1:b:203:ASP:CG	1:b:204:ILE:N	2.59	0.61
1:f:78:PHE:O	1:f:300:GLY:HA2	2.01	0.61
1:f:203:ASP:CG	1:f:204:ILE:N	2.59	0.61
1:f:265:GLN:NE2	1:h:431:MET:HE2	2.16	0.61
1:h:78:PHE:O	1:h:300:GLY:HA2	2.01	0.61
1:h:286:LEU:HD11	1:h:398:ILE:CG1	2.31	0.61
1:i:78:PHE:O	1:i:300:GLY:HA2	2.01	0.61
1:i:326:ARG:NE	1:i:328:GLU:OE2	2.34	0.61
1:o:265:GLN:NE2	1:p:431:MET:HE2	2.16	0.61
1:q:225:LEU:HD22	1:q:229:ASN:HB3	1.83	0.61
1:r:225:LEU:HD22	1:r:229:ASN:HB3	1.83	0.61
1:r:258:ASN:HB2	1:s:167:LEU:HD13	1.82	0.61
1:s:328:GLU:HG3	1:s:331:LYS:HG3	1.81	0.61
1:t:78:PHE:O	1:t:300:GLY:HA2	2.01	0.61
1:t:167:LEU:HD13	1:v:258:ASN:HB2	1.83	0.61
1:t:294:THR:OG1	1:v:387:GLY:HA2	2.01	0.61
1:t:326:ARG:NE	1:t:328:GLU:OE2	2.34	0.61
1:t:419:PRO:HD3	1:v:285:TRP:CE3	2.35	0.61
1:v:78:PHE:O	1:v:300:GLY:HA2	2.01	0.61
1:w:328:GLU:OE1	1:w:328:GLU:N	2.26	0.61
1:x:387:GLY:HA2	1:y:294:THR:OG1	2.00	0.61
1:z:268:LEU:CD1	1:1:317:GLY:HA3	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:326:ARG:NE	1:z:328:GLU:OE2	2.34	0.61
1:1:149:ASP:OD2	1:1:461:GLU:OE2	2.18	0.61
1:1:326:ARG:NE	1:1:328:GLU:OE2	2.34	0.61
1:2:326:ARG:NE	1:2:328:GLU:OE2	2.34	0.61
1:3:118:SER:O	1:3:246:ASN:N	2.23	0.61
1:3:326:ARG:NE	1:3:328:GLU:OE2	2.34	0.61
1:4:149:ASP:OD2	1:4:461:GLU:OE2	2.18	0.61
1:4:203:ASP:CG	1:4:204:ILE:N	2.59	0.61
1:5:78:PHE:O	1:5:300:GLY:HA2	2.01	0.61
1:6:149:ASP:OD2	1:6:461:GLU:OE2	2.18	0.61
1:7:71:ASN:HB3	1:7:86:TRP:CD1	2.35	0.61
1:A:78:PHE:O	1:A:300:GLY:HA2	2.01	0.61
1:A:286:LEU:HD11	1:A:398:ILE:CG1	2.31	0.61
1:A:312:GLY:O	1:I:377:ARG:CD	2.48	0.61
1:A:419:PRO:HD3	1:I:285:TRP:CE3	2.36	0.61
1:B:167:LEU:HD13	1:L:258:ASN:HB2	1.82	0.61
1:C:286:LEU:HD11	1:C:398:ILE:CG1	2.31	0.61
1:E:81:GLU:OE1	1:F:275:ARG:HG2	2.00	0.61
1:G:326:ARG:NE	1:G:328:GLU:OE2	2.34	0.61
1:H:78:PHE:O	1:H:300:GLY:HA2	2.01	0.61
1:H:265:GLN:NE2	1:W:431:MET:HE2	2.16	0.61
1:H:302:ASN:O	1:H:305:THR:OG1	2.08	0.61
1:I:326:ARG:NE	1:I:328:GLU:OE2	2.34	0.61
1:J:225:LEU:HD22	1:J:229:ASN:HB3	1.83	0.61
1:K:78:PHE:O	1:K:300:GLY:HA2	2.01	0.61
1:K:267:ASP:OD1	1:K:271:ASN:N	2.27	0.61
1:K:275:ARG:HG2	1:a:81:GLU:OE1	2.00	0.61
1:K:387:GLY:HA2	1:a:294:THR:OG1	2.00	0.61
1:M:71:ASN:HB3	1:M:86:TRP:CD1	2.35	0.61
1:N:78:PHE:O	1:N:300:GLY:HA2	2.01	0.61
1:N:286:LEU:HD11	1:N:398:ILE:CG1	2.31	0.61
1:R:225:LEU:HD22	1:R:229:ASN:HB3	1.83	0.61
1:R:265:GLN:NE2	1:S:431:MET:HE2	2.16	0.61
1:S:258:ASN:HB2	1:U:167:LEU:HD13	1.82	0.61
1:T:265:GLN:NE2	1:d:431:MET:HE2	2.16	0.61
1:U:286:LEU:HD11	1:U:398:ILE:CG1	2.31	0.61
1:U:328:GLU:HG3	1:U:331:LYS:HG3	1.81	0.61
1:V:265:GLN:NE2	1:e:431:MET:HE2	2.16	0.61
1:V:431:MET:HE2	1:X:265:GLN:NE2	2.16	0.61
1:W:149:ASP:OD2	1:W:461:GLU:OE2	2.18	0.61
1:a:225:LEU:HD22	1:a:229:ASN:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:286:LEU:HD11	1:g:398:ILE:CG1	2.31	0.61
1:j:78:PHE:O	1:j:300:GLY:HA2	2.01	0.61
1:k:286:LEU:HD11	1:k:398:ILE:CG1	2.31	0.61
1:m:265:GLN:NE2	1:n:431:MET:HE2	2.16	0.61
1:p:225:LEU:HD22	1:p:229:ASN:HB3	1.83	0.61
1:q:233:CYS:SG	1:q:443:ILE:HD11	2.40	0.61
1:s:233:CYS:SG	1:s:443:ILE:HD11	2.40	0.61
1:v:286:LEU:HD11	1:v:398:ILE:CG1	2.31	0.61
1:v:326:ARG:NE	1:v:328:GLU:OE2	2.34	0.61
1:w:78:PHE:O	1:w:300:GLY:HA2	2.01	0.61
1:w:149:ASP:OD2	1:w:461:GLU:OE2	2.18	0.61
1:x:225:LEU:HD22	1:x:229:ASN:HB3	1.83	0.61
1:z:258:ASN:HB2	1:1:167:LEU:HD13	1.82	0.61
1:1:327:ALA:H	1:1:377:ARG:HH21	1.47	0.61
1:3:71:ASN:HB3	1:3:86:TRP:CD1	2.35	0.61
1:3:225:LEU:HD22	1:3:229:ASN:HB3	1.83	0.61
1:3:327:ALA:H	1:3:377:ARG:HH21	1.47	0.61
1:5:265:GLN:NE2	1:6:431:MET:HE2	2.16	0.61
1:7:233:CYS:SG	1:7:443:ILE:HD11	2.40	0.61
1:A:265:GLN:NE2	1:G:431:MET:HE2	2.16	0.61
1:C:167:LEU:HD13	1:M:258:ASN:HB2	1.82	0.61
1:C:275:ARG:HG2	1:b:81:GLU:OE1	2.00	0.61
1:E:78:PHE:O	1:E:300:GLY:HA2	2.01	0.61
1:E:149:ASP:OD2	1:E:461:GLU:OE2	2.18	0.61
1:M:149:ASP:OD2	1:M:461:GLU:OE2	2.18	0.61
1:M:167:LEU:HD13	1:b:258:ASN:HB2	1.82	0.61
1:O:327:ALA:H	1:O:377:ARG:HH21	1.47	0.61
1:P:203:ASP:CG	1:P:204:ILE:N	2.59	0.61
1:Q:225:LEU:HD22	1:Q:229:ASN:HB3	1.83	0.61
1:S:265:GLN:NE2	1:U:431:MET:HE2	2.16	0.61
1:W:286:LEU:HD11	1:W:398:ILE:CG1	2.31	0.61
1:X:327:ALA:H	1:X:377:ARG:HH21	1.47	0.61
1:Y:71:ASN:HB3	1:Y:86:TRP:CD1	2.35	0.61
1:Y:149:ASP:OD2	1:Y:461:GLU:OE2	2.18	0.61
1:Z:316:MET:HE1	1:3:285:TRP:CD1	2.36	0.61
1:a:71:ASN:HB3	1:a:86:TRP:CD1	2.35	0.61
1:a:267:ASP:OD1	1:a:271:ASN:N	2.27	0.61
1:b:326:ARG:NE	1:b:328:GLU:OE2	2.34	0.61
1:c:167:LEU:HD13	1:p:258:ASN:HB2	1.82	0.61
1:c:431:MET:HE2	1:p:265:GLN:NE2	2.16	0.61
1:d:71:ASN:HB3	1:d:86:TRP:CD1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:78:PHE:O	1:d:300:GLY:HA2	2.01	0.61
1:e:326:ARG:NE	1:e:328:GLU:OE2	2.34	0.61
1:f:81:GLU:OE1	1:g:275:ARG:HG2	2.00	0.61
1:f:258:ASN:HB2	1:h:167:LEU:HD13	1.82	0.61
1:f:431:MET:HE2	1:g:265:GLN:NE2	2.16	0.61
1:g:431:MET:HE2	1:h:265:GLN:NE2	2.16	0.61
1:h:149:ASP:OD2	1:h:461:GLU:OE2	2.18	0.61
1:j:387:GLY:HA2	1:k:294:THR:OG1	2.00	0.61
1:l:71:ASN:HB3	1:l:86:TRP:CD1	2.35	0.61
1:m:328:GLU:OE1	1:m:328:GLU:N	2.26	0.61
1:n:78:PHE:O	1:n:300:GLY:HA2	2.01	0.61
1:n:267:ASP:OD1	1:n:271:ASN:N	2.27	0.61
1:o:326:ARG:NE	1:o:328:GLU:OE2	2.34	0.61
1:p:267:ASP:OD1	1:p:271:ASN:N	2.27	0.61
1:q:265:GLN:NE2	1:r:431:MET:HE2	2.16	0.61
1:r:265:GLN:NE2	1:s:431:MET:HE2	2.16	0.61
1:s:286:LEU:HD11	1:s:398:ILE:CG1	2.31	0.61
1:u:104:HIS:CD2	1:u:414:ILE:HD11	2.34	0.61
1:u:119:LYS:HE3	1:u:476:GLU:CG	2.29	0.61
1:u:326:ARG:NE	1:u:328:GLU:OE2	2.34	0.61
1:w:81:GLU:OE1	1:y:275:ARG:HG2	2.00	0.61
1:w:286:LEU:HD11	1:w:398:ILE:CG1	2.31	0.61
1:x:149:ASP:OD2	1:x:461:GLU:OE2	2.18	0.61
1:z:285:TRP:CD1	1:1:316:MET:HE1	2.36	0.61
1:1:71:ASN:HB3	1:1:86:TRP:CD1	2.35	0.61
1:2:225:LEU:HD22	1:2:229:ASN:HB3	1.83	0.61
1:3:81:GLU:OE1	1:4:275:ARG:HG2	2.00	0.61
1:3:294:THR:OG1	1:4:387:GLY:HA2	2.00	0.61
1:4:78:PHE:O	1:4:300:GLY:HA2	2.01	0.61
1:4:326:ARG:NE	1:4:328:GLU:OE2	2.34	0.61
1:6:118:SER:O	1:6:246:ASN:N	2.23	0.61
1:6:275:ARG:HG2	1:7:81:GLU:OE1	2.00	0.61
1:6:285:TRP:CD1	1:7:316:MET:HE1	2.36	0.61
1:6:286:LEU:HD11	1:6:398:ILE:CG1	2.31	0.61
1:A:203:ASP:CG	1:A:204:ILE:N	2.59	0.61
1:B:71:ASN:HB3	1:B:86:TRP:CD1	2.35	0.61
1:B:316:MET:HE1	1:L:285:TRP:CD1	2.36	0.61
1:C:265:GLN:NE2	1:b:431:MET:HE2	2.16	0.61
1:D:294:THR:OG1	1:P:387:GLY:HA2	2.00	0.61
1:H:203:ASP:CG	1:H:204:ILE:N	2.59	0.61
1:J:71:ASN:HB3	1:J:86:TRP:CD1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:265:GLN:NE2	1:L:431:MET:HE2	2.16	0.61
1:K:286:LEU:HD11	1:K:398:ILE:CG1	2.31	0.61
1:K:326:ARG:NE	1:K:328:GLU:OE2	2.34	0.61
1:L:71:ASN:HB3	1:L:86:TRP:CD1	2.35	0.61
1:L:78:PHE:O	1:L:300:GLY:HA2	2.01	0.61
1:N:203:ASP:CG	1:N:204:ILE:N	2.59	0.61
1:P:78:PHE:O	1:P:300:GLY:HA2	2.01	0.61
1:P:328:GLU:OE1	1:P:328:GLU:N	2.26	0.61
1:Q:203:ASP:CG	1:Q:204:ILE:N	2.59	0.61
1:R:233:CYS:SG	1:R:443:ILE:HD11	2.40	0.61
1:R:285:TRP:CD1	1:S:316:MET:HE1	2.36	0.61
1:R:431:MET:HE2	1:U:265:GLN:NE2	2.16	0.61
1:U:233:CYS:SG	1:U:443:ILE:HD11	2.40	0.61
1:V:258:ASN:HB2	1:e:167:LEU:HD13	1.82	0.61
1:W:118:SER:O	1:W:246:ASN:N	2.24	0.61
1:W:326:ARG:NE	1:W:328:GLU:OE2	2.34	0.61
1:X:326:ARG:NE	1:X:328:GLU:OE2	2.34	0.61
1:Z:265:GLN:NE2	1:4:431:MET:HE2	2.16	0.61
1:Z:302:ASN:O	1:Z:305:THR:OG1	2.08	0.61
1:Z:431:MET:HE2	1:3:265:GLN:NE2	2.16	0.61
1:a:285:TRP:CD1	1:8:316:MET:HE1	2.36	0.61
1:c:265:GLN:NE2	1:o:431:MET:HE2	2.16	0.61
1:c:326:ARG:NE	1:c:328:GLU:OE2	2.34	0.61
1:e:328:GLU:OE1	1:e:328:GLU:N	2.26	0.61
1:f:326:ARG:NE	1:f:328:GLU:OE2	2.34	0.61
1:g:167:LEU:HD13	1:h:258:ASN:HB2	1.82	0.61
1:i:286:LEU:HD11	1:i:398:ILE:CG1	2.31	0.61
1:j:203:ASP:CG	1:j:204:ILE:N	2.59	0.61
1:j:328:GLU:OE1	1:j:328:GLU:N	2.26	0.61
1:l:327:ALA:H	1:l:377:ARG:HH21	1.47	0.61
1:n:71:ASN:HB3	1:n:86:TRP:CD1	2.35	0.61
1:o:327:ALA:H	1:o:377:ARG:HH21	1.47	0.61
1:q:285:TRP:CD1	1:r:316:MET:HE1	2.36	0.61
1:q:326:ARG:NE	1:q:328:GLU:OE2	2.34	0.61
1:q:431:MET:HE2	1:s:265:GLN:NE2	2.16	0.61
1:r:71:ASN:HB3	1:r:86:TRP:CD1	2.35	0.61
1:t:316:MET:HE1	1:v:285:TRP:CD1	2.36	0.61
1:v:203:ASP:CG	1:v:204:ILE:N	2.59	0.61
1:z:71:ASN:HB3	1:z:86:TRP:CD1	2.35	0.61
1:z:78:PHE:O	1:z:300:GLY:HA2	2.01	0.61
1:z:275:ARG:HG2	1:1:81:GLU:OE1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:118:SER:O	1:1:246:ASN:N	2.23	0.61
1:3:149:ASP:OD2	1:3:461:GLU:OE2	2.18	0.61
1:4:286:LEU:HD11	1:4:398:ILE:CG1	2.31	0.61
1:5:203:ASP:CG	1:5:204:ILE:N	2.59	0.61
1:6:203:ASP:CG	1:6:204:ILE:N	2.59	0.61
1:7:149:ASP:OD2	1:7:461:GLU:OE2	2.18	0.61
1:8:267:ASP:OD1	1:8:271:ASN:N	2.27	0.61
1:A:77:VAL:O	1:I:277:HIS:HE1	1.84	0.61
1:A:172:GLN:NE2	1:I:257:ALA:HB1	2.16	0.61
1:A:267:ASP:OD1	1:A:271:ASN:N	2.27	0.61
1:D:328:GLU:HG3	1:D:331:LYS:HG3	1.81	0.61
1:E:286:LEU:HD11	1:E:398:ILE:CG1	2.31	0.61
1:F:203:ASP:CG	1:F:204:ILE:N	2.59	0.61
1:G:285:TRP:CD1	1:I:316:MET:HE1	2.36	0.61
1:H:316:MET:HE1	1:Y:285:TRP:CD1	2.36	0.61
1:H:525:LYS:NZ	1:W:422:ASP:OD2	2.22	0.61
1:K:225:LEU:HD22	1:K:229:ASN:HB3	1.83	0.61
1:K:431:MET:HE2	1:8:265:GLN:NE2	2.16	0.61
1:O:294:THR:OG1	1:n:387:GLY:HA2	2.00	0.61
1:Q:149:ASP:OD2	1:Q:461:GLU:OE2	2.18	0.61
1:R:78:PHE:O	1:R:300:GLY:HA2	2.01	0.61
1:R:81:GLU:OE1	1:U:275:ARG:HG2	2.00	0.61
1:R:326:ARG:NE	1:R:328:GLU:OE2	2.34	0.61
1:S:71:ASN:HB3	1:S:86:TRP:CD1	2.35	0.61
1:U:225:LEU:HD22	1:U:229:ASN:HB3	1.82	0.61
1:V:267:ASP:OD1	1:V:271:ASN:N	2.27	0.61
1:V:387:GLY:HA2	1:e:294:THR:OG1	2.00	0.61
1:W:265:GLN:NE2	1:Y:431:MET:HE2	2.16	0.61
1:W:285:TRP:CD1	1:Y:316:MET:HE1	2.36	0.61
1:X:431:MET:HE2	1:e:265:GLN:NE2	2.16	0.61
1:a:265:GLN:NE2	1:8:431:MET:HE2	2.16	0.61
1:c:149:ASP:OD2	1:c:461:GLU:OE2	2.19	0.61
1:c:312:GLY:O	1:p:377:ARG:CD	2.49	0.61
1:d:285:TRP:CD1	1:l:316:MET:HE1	2.36	0.61
1:j:149:ASP:OD2	1:j:461:GLU:OE2	2.18	0.61
1:p:287:PRO:HA	1:p:402:ILE:O	1.98	0.61
1:p:327:ALA:H	1:p:377:ARG:HH21	1.47	0.61
1:s:225:LEU:HD22	1:s:229:ASN:HB3	1.82	0.61
1:v:267:ASP:OD1	1:v:271:ASN:N	2.27	0.61
1:x:258:ASN:HB2	1:y:167:LEU:HD13	1.82	0.61
1:z:167:LEU:HD13	1:2:258:ASN:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:431:MET:HE2	1:2:265:GLN:NE2	2.16	0.61
1:2:71:ASN:HB3	1:2:86:TRP:CD1	2.35	0.61
1:4:225:LEU:HD22	1:4:229:ASN:HB3	1.83	0.61
1:5:118:SER:O	1:5:246:ASN:N	2.23	0.61
1:5:316:MET:HE1	1:7:285:TRP:CD1	2.36	0.61
1:6:265:GLN:NE2	1:7:431:MET:HE2	2.16	0.61
1:A:219:GLU:HA	1:B:39:CYS:HB3	1.82	0.60
1:B:286:LEU:HD11	1:B:398:ILE:CG1	2.31	0.60
1:D:149:ASP:OD2	1:D:461:GLU:OE2	2.18	0.60
1:E:316:MET:HE1	1:F:285:TRP:CD1	2.36	0.60
1:F:149:ASP:OD2	1:F:461:GLU:OE2	2.18	0.60
1:F:167:LEU:HD13	1:Q:258:ASN:HB2	1.82	0.60
1:G:63:LEU:HB2	1:G:65:MET:HE2	1.83	0.60
1:H:275:ARG:HG2	1:W:81:GLU:OE1	2.00	0.60
1:I:267:ASP:OD1	1:I:271:ASN:N	2.27	0.60
1:O:312:GLY:O	1:n:377:ARG:CD	2.49	0.60
1:O:316:MET:HE1	1:n:285:TRP:CD1	2.36	0.60
1:P:63:LEU:HB2	1:P:65:MET:HE2	1.83	0.60
1:P:149:ASP:OD2	1:P:461:GLU:OE2	2.18	0.60
1:T:286:LEU:HD11	1:T:398:ILE:CG1	2.31	0.60
1:V:377:ARG:CD	1:e:312:GLY:O	2.49	0.60
1:W:275:ARG:HG2	1:Y:81:GLU:OE1	2.00	0.60
1:X:78:PHE:O	1:X:300:GLY:HA2	2.01	0.60
1:Z:275:ARG:HG2	1:4:81:GLU:OE1	2.00	0.60
1:a:149:ASP:OD2	1:a:461:GLU:OE2	2.19	0.60
1:a:233:CYS:SG	1:a:443:ILE:HD11	2.40	0.60
1:c:286:LEU:HD11	1:c:398:ILE:CG1	2.31	0.60
1:c:387:GLY:HA2	1:o:294:THR:OG1	2.00	0.60
1:d:377:ARG:CD	1:l:312:GLY:O	2.49	0.60
1:d:387:GLY:HA2	1:l:294:THR:OG1	2.00	0.60
1:e:149:ASP:OD2	1:e:461:GLU:OE2	2.19	0.60
1:e:286:LEU:HD11	1:e:398:ILE:CG1	2.31	0.60
1:g:326:ARG:NE	1:g:328:GLU:OE2	2.34	0.60
1:i:203:ASP:CG	1:i:204:ILE:N	2.59	0.60
1:i:316:MET:HE1	1:k:285:TRP:CD1	2.36	0.60
1:k:149:ASP:OD2	1:k:461:GLU:OE2	2.18	0.60
1:m:387:GLY:HA2	1:n:294:THR:OG1	2.00	0.60
1:q:78:PHE:O	1:q:300:GLY:HA2	2.01	0.60
1:t:63:LEU:HB2	1:t:65:MET:HE2	1.83	0.60
1:u:78:PHE:O	1:u:300:GLY:HA2	2.01	0.60
1:w:275:ARG:HG2	1:x:81:GLU:OE1	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:316:MET:HE1	1:y:285:TRP:CD1	2.36	0.60
1:x:203:ASP:CG	1:x:204:ILE:N	2.59	0.60
1:x:377:ARG:CD	1:y:312:GLY:O	2.49	0.60
1:y:149:ASP:OD2	1:y:461:GLU:OE2	2.19	0.60
1:y:203:ASP:CG	1:y:204:ILE:N	2.59	0.60
1:y:326:ARG:NE	1:y:328:GLU:OE2	2.34	0.60
1:1:285:TRP:CD1	1:2:316:MET:HE1	2.36	0.60
1:1:286:LEU:HD11	1:1:398:ILE:CG1	2.31	0.60
1:3:233:CYS:SG	1:3:443:ILE:HD11	2.40	0.60
1:4:267:ASP:OD1	1:4:271:ASN:N	2.27	0.60
1:6:326:ARG:NE	1:6:328:GLU:OE2	2.34	0.60
1:8:78:PHE:O	1:8:300:GLY:HA2	2.01	0.60
1:B:81:GLU:OE1	1:L:275:ARG:HG2	2.00	0.60
1:B:285:TRP:CD1	1:J:316:MET:HE1	2.36	0.60
1:C:326:ARG:NE	1:C:328:GLU:OE2	2.34	0.60
1:D:285:TRP:CD1	1:N:316:MET:HE1	2.36	0.60
1:D:326:ARG:NE	1:D:328:GLU:OE2	2.34	0.60
1:F:312:GLY:O	1:Q:377:ARG:CD	2.49	0.60
1:F:326:ARG:NE	1:F:328:GLU:OE2	2.34	0.60
1:F:431:MET:HE2	1:Q:265:GLN:NE2	2.16	0.60
1:G:265:GLN:NE2	1:I:431:MET:HE2	2.16	0.60
1:I:78:PHE:O	1:I:300:GLY:HA2	2.01	0.60
1:J:258:ASN:HB2	1:L:167:LEU:HD13	1.82	0.60
1:K:81:GLU:OE1	1:8:275:ARG:HG2	2.00	0.60
1:P:326:ARG:NE	1:P:328:GLU:OE2	2.34	0.60
1:R:203:ASP:CG	1:R:204:ILE:N	2.59	0.60
1:T:328:GLU:OE1	1:T:328:GLU:N	2.26	0.60
1:T:387:GLY:HA2	1:d:294:THR:OG1	2.01	0.60
1:V:287:PRO:HA	1:V:402:ILE:O	1.98	0.60
1:Z:78:PHE:O	1:Z:300:GLY:HA2	2.01	0.60
1:Z:312:GLY:O	1:3:377:ARG:CD	2.49	0.60
1:c:294:THR:OG1	1:p:387:GLY:HA2	2.00	0.60
1:d:267:ASP:OD1	1:d:271:ASN:N	2.27	0.60
1:j:326:ARG:NE	1:j:328:GLU:OE2	2.34	0.60
1:k:326:ARG:NE	1:k:328:GLU:OE2	2.34	0.60
1:k:328:GLU:HG3	1:k:331:LYS:HG3	1.81	0.60
1:o:78:PHE:O	1:o:300:GLY:HA2	2.01	0.60
1:q:81:GLU:OE1	1:s:275:ARG:HG2	2.00	0.60
1:q:312:GLY:O	1:s:377:ARG:CD	2.49	0.60
1:w:294:THR:OG1	1:y:387:GLY:HA2	2.00	0.60
1:x:265:GLN:NE2	1:y:431:MET:HE2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:118:SER:O	1:z:246:ASN:N	2.23	0.60
1:5:294:THR:OG1	1:7:387:GLY:HA2	2.00	0.60
1:6:404:ASP:OD2	1:6:529:ARG:NH2	2.35	0.60
1:B:203:ASP:CG	1:B:204:ILE:N	2.59	0.60
1:D:431:MET:HE2	1:P:265:GLN:NE2	2.16	0.60
1:E:258:ASN:HB2	1:Q:167:LEU:HD13	1.82	0.60
1:E:275:ARG:HG2	1:Q:81:GLU:OE1	2.00	0.60
1:E:294:THR:OG1	1:F:387:GLY:HA2	2.00	0.60
1:G:267:ASP:OD1	1:G:271:ASN:N	2.27	0.60
1:L:327:ALA:H	1:L:377:ARG:HH21	1.47	0.60
1:M:203:ASP:CG	1:M:204:ILE:N	2.59	0.60
1:O:63:LEU:HB2	1:O:65:MET:HE2	1.83	0.60
1:R:312:GLY:O	1:U:377:ARG:CD	2.49	0.60
1:S:326:ARG:NE	1:S:328:GLU:OE2	2.34	0.60
1:U:71:ASN:HB3	1:U:86:TRP:CD1	2.35	0.60
1:U:203:ASP:CG	1:U:204:ILE:N	2.59	0.60
1:V:327:ALA:H	1:V:377:ARG:HH21	1.47	0.60
1:W:404:ASP:OD2	1:W:529:ARG:NH2	2.35	0.60
1:X:294:THR:OG1	1:e:387:GLY:HA2	2.00	0.60
1:a:377:ARG:CD	1:8:312:GLY:O	2.49	0.60
1:c:404:ASP:OD2	1:c:529:ARG:NH2	2.35	0.60
1:d:404:ASP:OD2	1:d:529:ARG:NH2	2.35	0.60
1:e:404:ASP:OD2	1:e:529:ARG:NH2	2.35	0.60
1:f:316:MET:HE1	1:g:285:TRP:CD1	2.36	0.60
1:j:63:LEU:HB2	1:j:65:MET:HE2	1.84	0.60
1:k:78:PHE:O	1:k:300:GLY:HA2	2.01	0.60
1:l:149:ASP:OD2	1:l:461:GLU:OE2	2.18	0.60
1:m:286:LEU:HD11	1:m:398:ILE:CG1	2.31	0.60
1:n:404:ASP:OD2	1:n:529:ARG:NH2	2.35	0.60
1:p:149:ASP:OD2	1:p:461:GLU:OE2	2.18	0.60
1:q:149:ASP:OD2	1:q:461:GLU:OE2	2.18	0.60
1:q:203:ASP:CG	1:q:204:ILE:N	2.59	0.60
1:r:326:ARG:NE	1:r:328:GLU:OE2	2.34	0.60
1:r:377:ARG:CD	1:s:312:GLY:O	2.49	0.60
1:s:203:ASP:CG	1:s:204:ILE:N	2.59	0.60
1:s:326:ARG:NE	1:s:328:GLU:OE2	2.34	0.60
1:t:267:ASP:OD1	1:t:271:ASN:N	2.27	0.60
1:u:267:ASP:OD1	1:u:271:ASN:N	2.27	0.60
1:u:327:ALA:H	1:u:377:ARG:HH21	1.47	0.60
1:1:203:ASP:CG	1:1:204:ILE:N	2.59	0.60
1:5:275:ARG:HG2	1:6:81:GLU:OE1	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:387:GLY:HA2	1:6:294:THR:OG1	2.00	0.60
1:8:149:ASP:OD2	1:8:461:GLU:OE2	2.18	0.60
1:C:78:PHE:O	1:C:300:GLY:HA2	2.01	0.60
1:C:203:ASP:CG	1:C:204:ILE:N	2.59	0.60
1:C:285:TRP:CD1	1:b:316:MET:HE1	2.36	0.60
1:C:377:ARG:CD	1:b:312:GLY:O	2.49	0.60
1:D:377:ARG:CD	1:N:312:GLY:O	2.50	0.60
1:E:326:ARG:NE	1:E:328:GLU:OE2	2.34	0.60
1:E:377:ARG:CD	1:Q:312:GLY:O	2.50	0.60
1:F:63:LEU:HB2	1:F:65:MET:HE2	1.84	0.60
1:G:71:ASN:HB3	1:G:86:TRP:CD1	2.35	0.60
1:G:387:GLY:HA2	1:I:294:THR:OG1	2.00	0.60
1:H:285:TRP:CD1	1:W:316:MET:HE1	2.36	0.60
1:H:294:THR:OG1	1:Y:387:GLY:HA2	2.00	0.60
1:H:312:GLY:O	1:Y:377:ARG:CD	2.50	0.60
1:H:377:ARG:CD	1:W:312:GLY:O	2.50	0.60
1:M:81:GLU:OE1	1:b:275:ARG:HG2	2.00	0.60
1:M:404:ASP:OD2	1:M:529:ARG:NH2	2.35	0.60
1:O:167:LEU:HD13	1:n:258:ASN:HB2	1.82	0.60
1:R:149:ASP:OD2	1:R:461:GLU:OE2	2.18	0.60
1:R:327:ALA:H	1:R:377:ARG:HH21	1.47	0.60
1:S:377:ARG:CD	1:U:312:GLY:O	2.49	0.60
1:U:326:ARG:NE	1:U:328:GLU:OE2	2.34	0.60
1:V:78:PHE:O	1:V:300:GLY:HA2	2.01	0.60
1:V:149:ASP:OD2	1:V:461:GLU:OE2	2.18	0.60
1:V:203:ASP:CG	1:V:204:ILE:N	2.59	0.60
1:W:258:ASN:HB2	1:Y:167:LEU:HD13	1.81	0.60
1:Z:149:ASP:OD2	1:Z:461:GLU:OE2	2.18	0.60
1:a:286:LEU:HD11	1:a:398:ILE:CG1	2.31	0.60
1:c:225:LEU:HD22	1:c:229:ASN:HB3	1.83	0.60
1:c:328:GLU:OE1	1:c:328:GLU:N	2.26	0.60
1:d:258:ASN:HB2	1:l:167:LEU:HD13	1.82	0.60
1:f:312:GLY:O	1:g:377:ARG:CD	2.49	0.60
1:g:78:PHE:O	1:g:300:GLY:HA2	2.01	0.60
1:h:203:ASP:CG	1:h:204:ILE:N	2.59	0.60
1:i:312:GLY:O	1:k:377:ARG:CD	2.50	0.60
1:l:63:LEU:HB2	1:l:65:MET:HE2	1.83	0.60
1:m:285:TRP:CD1	1:n:316:MET:HE1	2.36	0.60
1:o:225:LEU:HD22	1:o:229:ASN:HB3	1.82	0.60
1:p:203:ASP:CG	1:p:204:ILE:N	2.59	0.60
1:q:327:ALA:H	1:q:377:ARG:HH21	1.47	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:377:ARG:CD	1:r:312:GLY:O	2.49	0.60
1:s:63:LEU:HB2	1:s:65:MET:HE2	1.83	0.60
1:s:71:ASN:HB3	1:s:86:TRP:CD1	2.35	0.60
1:w:258:ASN:HB2	1:x:167:LEU:HD13	1.82	0.60
1:w:326:ARG:NE	1:w:328:GLU:OE2	2.34	0.60
1:w:377:ARG:CD	1:x:312:GLY:O	2.50	0.60
1:x:286:LEU:HD11	1:x:398:ILE:CG1	2.31	0.60
1:x:326:ARG:NE	1:x:328:GLU:OE2	2.34	0.60
1:y:63:LEU:HB2	1:y:65:MET:HE2	1.83	0.60
1:z:327:ALA:H	1:z:377:ARG:HH21	1.47	0.60
1:3:431:MET:HE2	1:4:265:GLN:NE2	2.16	0.60
1:5:312:GLY:O	1:7:377:ARG:CD	2.50	0.60
1:5:377:ARG:CD	1:6:312:GLY:O	2.50	0.60
1:5:431:MET:HE2	1:7:265:GLN:NE2	2.16	0.60
1:6:377:ARG:CD	1:7:312:GLY:O	2.50	0.60
1:B:78:PHE:O	1:B:300:GLY:HA2	2.01	0.60
1:B:312:GLY:O	1:L:377:ARG:CD	2.49	0.60
1:D:78:PHE:O	1:D:300:GLY:HA2	2.01	0.60
1:F:78:PHE:O	1:F:300:GLY:HA2	2.01	0.60
1:H:63:LEU:HB2	1:H:65:MET:HE2	1.83	0.60
1:H:258:ASN:HB2	1:W:167:LEU:HD13	1.81	0.60
1:H:387:GLY:HA2	1:W:294:THR:OG1	2.00	0.60
1:H:404:ASP:OD2	1:H:529:ARG:NH2	2.35	0.60
1:H:431:MET:HE2	1:Y:265:GLN:NE2	2.16	0.60
1:I:327:ALA:H	1:I:377:ARG:HH21	1.47	0.60
1:J:78:PHE:O	1:J:300:GLY:HA2	2.01	0.60
1:M:63:LEU:HB2	1:M:65:MET:HE2	1.84	0.60
1:O:149:ASP:OD2	1:O:461:GLU:OE2	2.18	0.60
1:Q:286:LEU:HD11	1:Q:398:ILE:CG1	2.31	0.60
1:Q:326:ARG:NE	1:Q:328:GLU:OE2	2.34	0.60
1:R:377:ARG:CD	1:S:312:GLY:O	2.49	0.60
1:T:203:ASP:CG	1:T:204:ILE:N	2.59	0.60
1:T:404:ASP:OD2	1:T:529:ARG:NH2	2.35	0.60
1:U:63:LEU:HB2	1:U:65:MET:HE2	1.83	0.60
1:W:377:ARG:CD	1:Y:312:GLY:O	2.50	0.60
1:X:225:LEU:HD22	1:X:229:ASN:HB3	1.82	0.60
1:Y:225:LEU:HD22	1:Y:229:ASN:HB3	1.83	0.60
1:Z:219:GLU:HA	1:a:39:CYS:HB3	1.84	0.60
1:c:316:MET:HE1	1:p:285:TRP:CD1	2.36	0.60
1:f:275:ARG:HG2	1:h:81:GLU:OE1	2.00	0.60
1:g:312:GLY:O	1:h:377:ARG:CD	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:63:LEU:HB2	1:h:65:MET:HE2	1.83	0.60
1:h:225:LEU:HD22	1:h:229:ASN:HB3	1.82	0.60
1:h:404:ASP:OD2	1:h:529:ARG:NH2	2.35	0.60
1:j:265:GLN:NE2	1:k:431:MET:HE2	2.16	0.60
1:l:326:ARG:NE	1:l:328:GLU:OE2	2.34	0.60
1:x:285:TRP:CD1	1:y:316:MET:HE1	2.36	0.60
1:z:377:ARG:CD	1:1:312:GLY:O	2.49	0.60
1:1:78:PHE:O	1:1:300:GLY:HA2	2.01	0.60
1:2:404:ASP:OD2	1:2:529:ARG:NH2	2.35	0.60
1:3:39:CYS:HB3	1:8:219:GLU:HA	1.84	0.60
1:5:285:TRP:CD1	1:6:316:MET:HE1	2.36	0.60
1:5:404:ASP:OD2	1:5:529:ARG:NH2	2.35	0.60
1:6:78:PHE:O	1:6:300:GLY:HA2	2.01	0.60
1:6:258:ASN:HB2	1:7:167:LEU:HD13	1.81	0.60
1:8:63:LEU:HB2	1:8:65:MET:HE2	1.83	0.60
1:B:404:ASP:OD2	1:B:529:ARG:NH2	2.35	0.60
1:C:312:GLY:O	1:M:377:ARG:CD	2.50	0.60
1:E:225:LEU:HD22	1:E:229:ASN:HB3	1.82	0.60
1:E:431:MET:HE2	1:F:265:GLN:NE2	2.16	0.60
1:F:404:ASP:OD2	1:F:529:ARG:NH2	2.35	0.60
1:I:404:ASP:OD2	1:I:529:ARG:NH2	2.35	0.60
1:J:404:ASP:OD2	1:J:529:ARG:NH2	2.35	0.60
1:K:265:GLN:NE2	1:a:431:MET:HE2	2.16	0.60
1:K:404:ASP:OD2	1:K:529:ARG:NH2	2.35	0.60
1:L:118:SER:O	1:L:246:ASN:N	2.23	0.60
1:M:225:LEU:HD22	1:M:229:ASN:HB3	1.82	0.60
1:M:326:ARG:NE	1:M:328:GLU:OE2	2.34	0.60
1:N:285:TRP:CD1	1:P:316:MET:HE1	2.36	0.60
1:O:172:GLN:NE2	1:n:257:ALA:HB1	2.17	0.60
1:O:285:TRP:CD1	1:m:316:MET:HE1	2.37	0.60
1:P:273:ALA:HB1	1:P:281:TRP:NE1	2.17	0.60
1:Q:71:ASN:HB3	1:Q:86:TRP:CD1	2.35	0.60
1:S:78:PHE:O	1:S:300:GLY:HA2	2.01	0.60
1:T:71:ASN:HB3	1:T:86:TRP:CD1	2.35	0.60
1:T:285:TRP:CD1	1:d:316:MET:HE1	2.36	0.60
1:U:273:ALA:HB1	1:U:281:TRP:NE1	2.17	0.60
1:V:257:ALA:HB1	1:e:172:GLN:NE2	2.17	0.60
1:V:285:TRP:CD1	1:e:316:MET:HE1	2.36	0.60
1:V:294:THR:OG1	1:X:387:GLY:HA2	2.00	0.60
1:W:78:PHE:O	1:W:300:GLY:HA2	2.01	0.60
1:Z:63:LEU:HB2	1:Z:65:MET:HE2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:377:ARG:CD	1:4:312:GLY:O	2.49	0.60
1:d:63:LEU:HB2	1:d:65:MET:HE2	1.83	0.60
1:d:257:ALA:HB1	1:l:172:GLN:NE2	2.17	0.60
1:e:225:LEU:HD22	1:e:229:ASN:HB3	1.83	0.60
1:g:203:ASP:CG	1:g:204:ILE:N	2.59	0.60
1:i:285:TRP:CD1	1:j:316:MET:HE1	2.36	0.60
1:m:404:ASP:OD2	1:m:529:ARG:NH2	2.35	0.60
1:o:387:GLY:HA2	1:p:294:THR:OG1	2.00	0.60
1:p:78:PHE:O	1:p:300:GLY:HA2	2.01	0.60
1:p:404:ASP:OD2	1:p:529:ARG:NH2	2.35	0.60
1:s:273:ALA:HB1	1:s:281:TRP:NE1	2.17	0.60
1:t:71:ASN:HB3	1:t:86:TRP:CD1	2.35	0.60
1:t:118:SER:O	1:t:246:ASN:N	2.24	0.60
1:z:273:ALA:HB1	1:z:281:TRP:NE1	2.17	0.60
1:5:258:ASN:HB2	1:6:167:LEU:HD13	1.81	0.60
1:6:71:ASN:HB3	1:6:86:TRP:CD1	2.35	0.60
1:8:273:ALA:HB1	1:8:281:TRP:NE1	2.17	0.60
1:A:257:ALA:HB1	1:G:172:GLN:NE2	2.17	0.60
1:A:404:ASP:OD2	1:A:529:ARG:NH2	2.35	0.60
1:F:316:MET:HE1	1:Q:285:TRP:CD1	2.36	0.60
1:G:404:ASP:OD2	1:G:529:ARG:NH2	2.35	0.60
1:J:257:ALA:HB1	1:L:172:GLN:NE2	2.17	0.60
1:J:285:TRP:CD1	1:L:316:MET:HE1	2.36	0.60
1:K:172:GLN:NE2	1:8:257:ALA:HB1	2.17	0.60
1:L:203:ASP:CG	1:L:204:ILE:N	2.59	0.60
1:L:273:ALA:HB1	1:L:281:TRP:NE1	2.17	0.60
1:O:326:ARG:NE	1:O:328:GLU:OE2	2.34	0.60
1:O:377:ARG:CD	1:m:312:GLY:O	2.49	0.60
1:R:188:GLN:OE1	1:R:352:LYS:NZ	2.18	0.60
1:S:273:ALA:HB1	1:S:281:TRP:NE1	2.17	0.60
1:T:225:LEU:HD22	1:T:229:ASN:HB3	1.82	0.60
1:T:316:MET:HE1	1:l:285:TRP:CD1	2.37	0.60
1:V:172:GLN:NE2	1:X:257:ALA:HB1	2.17	0.60
1:V:273:ALA:HB1	1:V:281:TRP:NE1	2.17	0.60
1:V:316:MET:HE1	1:X:285:TRP:CD1	2.36	0.60
1:V:404:ASP:OD2	1:V:529:ARG:NH2	2.35	0.60
1:W:71:ASN:HB3	1:W:86:TRP:CD1	2.35	0.60
1:Z:273:ALA:HB1	1:Z:281:TRP:NE1	2.17	0.60
1:c:172:GLN:NE2	1:p:257:ALA:HB1	2.17	0.60
1:d:328:GLU:OE1	1:d:328:GLU:N	2.26	0.60
1:g:316:MET:HE1	1:h:285:TRP:CD1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:431:MET:HE2	1:k:265:GLN:NE2	2.16	0.60
1:j:273:ALA:HB1	1:j:281:TRP:NE1	2.17	0.60
1:m:71:ASN:HB3	1:m:86:TRP:CD1	2.35	0.60
1:m:149:ASP:OD2	1:m:461:GLU:OE2	2.18	0.60
1:m:203:ASP:CG	1:m:204:ILE:N	2.59	0.60
1:n:63:LEU:HB2	1:n:65:MET:HE2	1.84	0.60
1:n:328:GLU:OE1	1:n:328:GLU:N	2.26	0.60
1:o:71:ASN:HB3	1:o:86:TRP:CD1	2.35	0.60
1:p:41:THR:HG23	1:p:50:THR:HG22	1.84	0.60
1:s:404:ASP:OD2	1:s:529:ARG:NH2	2.35	0.60
1:t:273:ALA:HB1	1:t:281:TRP:NE1	2.17	0.60
1:t:275:ARG:HG2	1:u:81:GLU:OE1	2.02	0.60
1:w:225:LEU:HD22	1:w:229:ASN:HB3	1.82	0.60
1:y:78:PHE:O	1:y:300:GLY:HA2	2.01	0.60
1:y:404:ASP:OD2	1:y:529:ARG:NH2	2.35	0.60
1:z:172:GLN:NE2	1:2:257:ALA:HB1	2.17	0.60
1:1:404:ASP:OD2	1:1:529:ARG:NH2	2.35	0.60
1:2:78:PHE:O	1:2:300:GLY:HA2	2.01	0.60
1:3:286:LEU:HD11	1:3:398:ILE:CG1	2.31	0.60
1:4:404:ASP:OD2	1:4:529:ARG:NH2	2.35	0.60
1:5:63:LEU:HB2	1:5:65:MET:HE2	1.84	0.60
1:7:225:LEU:HD22	1:7:229:ASN:HB3	1.83	0.60
1:7:302:ASN:O	1:7:305:THR:OG1	2.08	0.60
1:A:63:LEU:HB2	1:A:65:MET:HE2	1.83	0.60
1:B:63:LEU:HB2	1:B:65:MET:HE2	1.83	0.60
1:C:316:MET:HE1	1:M:285:TRP:CD1	2.36	0.60
1:G:273:ALA:HB1	1:G:281:TRP:NE1	2.17	0.60
1:J:286:LEU:HD11	1:J:398:ILE:CG1	2.31	0.60
1:K:273:ALA:HB1	1:K:281:TRP:NE1	2.17	0.60
1:K:312:GLY:O	1:8:377:ARG:CD	2.49	0.60
1:L:63:LEU:HB2	1:L:65:MET:HE2	1.83	0.60
1:M:312:GLY:O	1:b:377:ARG:CD	2.49	0.60
1:R:404:ASP:OD2	1:R:529:ARG:NH2	2.35	0.60
1:S:404:ASP:OD2	1:S:529:ARG:NH2	2.35	0.60
1:T:63:LEU:HB2	1:T:65:MET:HE2	1.83	0.60
1:T:149:ASP:OD2	1:T:461:GLU:OE2	2.18	0.60
1:T:257:ALA:HB1	1:d:172:GLN:NE2	2.17	0.60
1:T:312:GLY:O	1:l:377:ARG:CD	2.49	0.60
1:U:404:ASP:OD2	1:U:529:ARG:NH2	2.35	0.60
1:V:41:THR:HG23	1:V:50:THR:HG22	1.84	0.60
1:Y:63:LEU:HB2	1:Y:65:MET:HE2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:302:ASN:O	1:Y:305:THR:OG1	2.08	0.60
1:Z:257:ALA:HB1	1:4:172:GLN:NE2	2.17	0.60
1:f:377:ARG:CD	1:h:312:GLY:O	2.49	0.60
1:h:326:ARG:NE	1:h:328:GLU:OE2	2.34	0.60
1:l:41:THR:HG23	1:l:50:THR:HG22	1.84	0.60
1:m:257:ALA:HB1	1:n:172:GLN:NE2	2.17	0.60
1:n:149:ASP:OD2	1:n:461:GLU:OE2	2.18	0.60
1:o:118:SER:O	1:o:246:ASN:N	2.23	0.60
1:o:257:ALA:HB1	1:p:172:GLN:NE2	2.17	0.60
1:o:285:TRP:CD1	1:p:316:MET:HE1	2.36	0.60
1:p:273:ALA:HB1	1:p:281:TRP:NE1	2.17	0.60
1:r:78:PHE:O	1:r:300:GLY:HA2	2.01	0.60
1:r:404:ASP:OD2	1:r:529:ARG:NH2	2.35	0.60
1:t:404:ASP:OD2	1:t:529:ARG:NH2	2.35	0.60
1:u:404:ASP:OD2	1:u:529:ARG:NH2	2.35	0.60
1:v:63:LEU:HB2	1:v:65:MET:HE2	1.83	0.60
1:v:404:ASP:OD2	1:v:529:ARG:NH2	2.35	0.60
1:w:431:MET:HE2	1:y:265:GLN:NE2	2.16	0.60
1:x:71:ASN:HB3	1:x:86:TRP:CD1	2.35	0.60
1:z:316:MET:HE1	1:2:285:TRP:CD1	2.36	0.60
1:4:273:ALA:HB1	1:4:281:TRP:NE1	2.17	0.60
1:B:172:GLN:NE2	1:L:257:ALA:HB1	2.17	0.60
1:D:265:GLN:NE2	1:N:431:MET:HE2	2.16	0.60
1:D:312:GLY:O	1:P:377:ARG:CD	2.50	0.60
1:E:404:ASP:OD2	1:E:529:ARG:NH2	2.35	0.60
1:F:225:LEU:HD22	1:F:229:ASN:HB3	1.83	0.60
1:G:118:SER:O	1:G:246:ASN:N	2.24	0.60
1:H:326:ARG:NE	1:H:328:GLU:OE2	2.34	0.60
1:K:63:LEU:HB2	1:K:65:MET:HE2	1.83	0.60
1:M:316:MET:HE1	1:b:285:TRP:CD1	2.36	0.60
1:N:63:LEU:HB2	1:N:65:MET:HE2	1.83	0.60
1:N:404:ASP:OD2	1:N:529:ARG:NH2	2.35	0.60
1:O:41:THR:HG23	1:O:50:THR:HG22	1.84	0.60
1:O:257:ALA:HB1	1:m:172:GLN:NE2	2.17	0.60
1:Q:78:PHE:O	1:Q:300:GLY:HA2	2.01	0.60
1:R:41:THR:HG23	1:R:50:THR:HG22	1.84	0.60
1:R:316:MET:HE1	1:U:285:TRP:CD1	2.36	0.60
1:X:71:ASN:HB3	1:X:86:TRP:CD1	2.35	0.60
1:X:118:SER:O	1:X:246:ASN:N	2.23	0.60
1:X:312:GLY:O	1:e:377:ARG:CD	2.49	0.60
1:Z:326:ARG:NE	1:Z:328:GLU:OE2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:257:ALA:HB1	1:8:172:GLN:NE2	2.17	0.60
1:c:377:ARG:CD	1:o:312:GLY:O	2.49	0.60
1:d:149:ASP:OD2	1:d:461:GLU:OE2	2.18	0.60
1:f:285:TRP:CD1	1:h:316:MET:HE1	2.36	0.60
1:i:257:ALA:HB1	1:j:172:GLN:NE2	2.17	0.60
1:i:404:ASP:OD2	1:i:529:ARG:NH2	2.35	0.60
1:m:63:LEU:HB2	1:m:65:MET:HE2	1.83	0.60
1:m:225:LEU:HD22	1:m:229:ASN:HB3	1.83	0.60
1:m:377:ARG:CD	1:n:312:GLY:O	2.49	0.60
1:q:404:ASP:OD2	1:q:529:ARG:NH2	2.35	0.60
1:r:273:ALA:HB1	1:r:281:TRP:NE1	2.17	0.60
1:r:285:TRP:CD1	1:s:316:MET:HE1	2.36	0.60
1:t:265:GLN:NE2	1:u:431:MET:HE2	2.16	0.60
1:u:265:GLN:NE2	1:v:431:MET:HE2	2.16	0.60
1:u:377:ARG:CD	1:v:312:GLY:O	2.50	0.60
1:w:172:GLN:NE2	1:y:257:ALA:HB1	2.17	0.60
1:x:273:ALA:HB1	1:x:281:TRP:NE1	2.17	0.60
1:y:225:LEU:HD22	1:y:229:ASN:HB3	1.82	0.60
1:z:63:LEU:HB2	1:z:65:MET:HE2	1.83	0.60
1:z:257:ALA:HB1	1:1:172:GLN:NE2	2.17	0.60
1:2:286:LEU:HD11	1:2:398:ILE:CG1	2.31	0.60
1:7:63:LEU:HB2	1:7:65:MET:HE2	1.83	0.60
1:8:326:ARG:NE	1:8:328:GLU:OE2	2.34	0.60
1:B:225:LEU:HD22	1:B:229:ASN:HB3	1.83	0.60
1:C:525:LYS:NZ	1:b:422:ASP:OD2	2.22	0.60
1:G:225:LEU:HD22	1:G:229:ASN:HB3	1.82	0.60
1:G:377:ARG:CD	1:I:312:GLY:O	2.50	0.60
1:H:172:GLN:NE2	1:Y:257:ALA:HB1	2.17	0.60
1:J:41:THR:HG23	1:J:50:THR:HG22	1.84	0.60
1:J:203:ASP:CG	1:J:204:ILE:N	2.59	0.60
1:K:377:ARG:CD	1:a:312:GLY:O	2.49	0.60
1:N:257:ALA:HB1	1:P:172:GLN:NE2	2.17	0.60
1:P:286:LEU:HD11	1:P:398:ILE:CG1	2.31	0.60
1:S:285:TRP:CD1	1:U:316:MET:HE1	2.36	0.60
1:T:377:ARG:CD	1:d:312:GLY:O	2.49	0.60
1:W:328:GLU:OE1	1:W:328:GLU:N	2.26	0.60
1:c:41:THR:HG23	1:c:50:THR:HG22	1.84	0.60
1:d:265:GLN:NE2	1:l:431:MET:HE2	2.16	0.60
1:e:41:THR:HG23	1:e:50:THR:HG22	1.84	0.60
1:g:225:LEU:HD22	1:g:229:ASN:HB3	1.83	0.60
1:g:404:ASP:OD2	1:g:529:ARG:NH2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:377:ARG:CD	1:k:312:GLY:O	2.50	0.60
1:n:286:LEU:HD11	1:n:398:ILE:CG1	2.31	0.60
1:o:377:ARG:CD	1:p:312:GLY:O	2.50	0.60
1:q:41:THR:HG23	1:q:50:THR:HG22	1.84	0.60
1:q:316:MET:HE1	1:s:285:TRP:CD1	2.36	0.60
1:t:219:GLU:HA	1:y:39:CYS:HB3	1.82	0.60
1:u:41:THR:HG23	1:u:50:THR:HG22	1.84	0.60
1:w:257:ALA:HB1	1:x:172:GLN:NE2	2.17	0.60
1:w:285:TRP:CD1	1:x:316:MET:HE1	2.36	0.60
1:w:404:ASP:OD2	1:w:529:ARG:NH2	2.35	0.60
1:x:63:LEU:HB2	1:x:65:MET:HE2	1.83	0.60
1:1:63:LEU:HB2	1:1:65:MET:HE2	1.83	0.60
1:2:63:LEU:HB2	1:2:65:MET:HE2	1.83	0.60
1:2:203:ASP:CG	1:2:204:ILE:N	2.59	0.60
1:3:312:GLY:O	1:4:377:ARG:CD	2.49	0.60
1:4:63:LEU:HB2	1:4:65:MET:HE2	1.83	0.60
1:6:225:LEU:HD22	1:6:229:ASN:HB3	1.83	0.60
1:7:273:ALA:HB1	1:7:281:TRP:NE1	2.17	0.60
1:8:286:LEU:HD11	1:8:398:ILE:CG1	2.31	0.60
1:A:167:LEU:HD13	1:I:258:ASN:HB2	1.84	0.59
1:C:225:LEU:HD22	1:C:229:ASN:HB3	1.83	0.59
1:C:404:ASP:OD2	1:C:529:ARG:NH2	2.35	0.59
1:D:316:MET:HE1	1:P:285:TRP:CD1	2.36	0.59
1:E:172:GLN:NE2	1:F:257:ALA:HB1	2.17	0.59
1:E:257:ALA:HB1	1:Q:172:GLN:NE2	2.17	0.59
1:E:285:TRP:CD1	1:Q:316:MET:HE1	2.36	0.59
1:G:328:GLU:OE1	1:G:328:GLU:N	2.26	0.59
1:I:41:THR:HG23	1:I:50:THR:HG22	1.84	0.59
1:J:63:LEU:HB2	1:J:65:MET:HE2	1.83	0.59
1:J:377:ARG:CD	1:L:312:GLY:O	2.49	0.59
1:L:225:LEU:HD22	1:L:229:ASN:HB3	1.83	0.59
1:N:225:LEU:HD22	1:N:229:ASN:HB3	1.83	0.59
1:P:404:ASP:OD2	1:P:529:ARG:NH2	2.35	0.59
1:R:172:GLN:NE2	1:U:257:ALA:HB1	2.17	0.59
1:S:257:ALA:HB1	1:U:172:GLN:NE2	2.17	0.59
1:T:172:GLN:NE2	1:l:257:ALA:HB1	2.17	0.59
1:U:41:THR:HG23	1:U:50:THR:HG22	1.84	0.59
1:V:63:LEU:HB2	1:V:65:MET:HE2	1.83	0.59
1:V:312:GLY:O	1:X:377:ARG:CD	2.50	0.59
1:W:225:LEU:HD22	1:W:229:ASN:HB3	1.83	0.59
1:Y:273:ALA:HB1	1:Y:281:TRP:NE1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:172:GLN:NE2	1:3:257:ALA:HB1	2.17	0.59
1:Z:285:TRP:CD1	1:4:316:MET:HE1	2.37	0.59
1:Z:286:LEU:HD11	1:Z:398:ILE:CG1	2.31	0.59
1:b:273:ALA:HB1	1:b:281:TRP:NE1	2.17	0.59
1:c:78:PHE:O	1:c:300:GLY:HA2	2.01	0.59
1:c:285:TRP:CD1	1:o:316:MET:HE1	2.36	0.59
1:f:225:LEU:HD22	1:f:229:ASN:HB3	1.83	0.59
1:f:273:ALA:HB1	1:f:281:TRP:NE1	2.17	0.59
1:i:63:LEU:HB2	1:i:65:MET:HE2	1.83	0.59
1:j:404:ASP:OD2	1:j:529:ARG:NH2	2.35	0.59
1:l:78:PHE:O	1:l:300:GLY:HA2	2.01	0.59
1:u:257:ALA:HB1	1:v:172:GLN:NE2	2.17	0.59
1:x:78:PHE:O	1:x:300:GLY:HA2	2.01	0.59
1:z:41:THR:HG23	1:z:50:THR:HG22	1.84	0.59
1:z:203:ASP:CG	1:z:204:ILE:N	2.59	0.59
1:z:225:LEU:HD22	1:z:229:ASN:HB3	1.82	0.59
1:1:265:GLN:NE2	1:2:431:MET:HE2	2.16	0.59
1:2:41:THR:HG23	1:2:50:THR:HG22	1.84	0.59
1:6:41:THR:HG23	1:6:50:THR:HG22	1.84	0.59
1:7:404:ASP:OD2	1:7:529:ARG:NH2	2.35	0.59
1:B:265:GLN:NE2	1:J:431:MET:HE2	2.16	0.59
1:E:273:ALA:HB1	1:E:281:TRP:NE1	2.17	0.59
1:K:257:ALA:HB1	1:a:172:GLN:NE2	2.17	0.59
1:K:316:MET:HE1	1:8:285:TRP:CD1	2.37	0.59
1:L:41:THR:HG23	1:L:50:THR:HG22	1.84	0.59
1:N:273:ALA:HB1	1:N:281:TRP:NE1	2.17	0.59
1:O:78:PHE:O	1:O:300:GLY:HA2	2.01	0.59
1:O:265:GLN:NE2	1:m:431:MET:HE2	2.16	0.59
1:Q:63:LEU:HB2	1:Q:65:MET:HE2	1.83	0.59
1:T:431:MET:HE2	1:l:265:GLN:NE2	2.16	0.59
1:W:41:THR:HG23	1:W:50:THR:HG22	1.84	0.59
1:X:63:LEU:HB2	1:X:65:MET:HE2	1.84	0.59
1:Y:404:ASP:OD2	1:Y:529:ARG:NH2	2.35	0.59
1:Z:336:GLN:HB2	1:Z:406:ARG:HD3	1.85	0.59
1:b:293:MET:CG	1:b:333:GLU:HB2	2.33	0.59
1:d:286:LEU:HD11	1:d:398:ILE:CG1	2.31	0.59
1:e:78:PHE:O	1:e:300:GLY:HA2	2.01	0.59
1:f:257:ALA:HB1	1:h:172:GLN:NE2	2.17	0.59
1:i:225:LEU:HD22	1:i:229:ASN:HB3	1.83	0.59
1:j:286:LEU:HD11	1:j:398:ILE:CG1	2.31	0.59
1:k:404:ASP:OD2	1:k:529:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:63:LEU:HB2	1:o:65:MET:HE2	1.83	0.59
1:p:63:LEU:HB2	1:p:65:MET:HE2	1.83	0.59
1:q:188:GLN:OE1	1:q:352:LYS:NZ	2.18	0.59
1:s:41:THR:HG23	1:s:50:THR:HG22	1.84	0.59
1:t:377:ARG:CD	1:u:312:GLY:O	2.50	0.59
1:w:273:ALA:HB1	1:w:281:TRP:NE1	2.17	0.59
1:w:302:ASN:O	1:w:305:THR:OG1	2.08	0.59
1:y:302:ASN:O	1:y:305:THR:OG1	2.08	0.59
1:z:265:GLN:NE2	1:1:431:MET:HE2	2.16	0.59
1:1:225:LEU:HD22	1:1:229:ASN:HB3	1.83	0.59
1:3:172:GLN:NE2	1:4:257:ALA:HB1	2.17	0.59
1:3:404:ASP:OD2	1:3:529:ARG:NH2	2.35	0.59
1:4:293:MET:CG	1:4:333:GLU:HB2	2.33	0.59
1:6:328:GLU:OE1	1:6:328:GLU:N	2.26	0.59
1:A:377:ARG:CD	1:G:312:GLY:O	2.50	0.59
1:B:377:ARG:CD	1:J:312:GLY:O	2.49	0.59
1:D:41:THR:HG23	1:D:50:THR:HG22	1.84	0.59
1:D:273:ALA:HB1	1:D:281:TRP:NE1	2.17	0.59
1:D:404:ASP:OD2	1:D:529:ARG:NH2	2.35	0.59
1:K:285:TRP:CD1	1:a:316:MET:HE1	2.36	0.59
1:K:293:MET:CG	1:K:333:GLU:HB2	2.33	0.59
1:M:172:GLN:NE2	1:b:257:ALA:HB1	2.17	0.59
1:O:404:ASP:OD2	1:O:529:ARG:NH2	2.35	0.59
1:O:431:MET:HE2	1:n:265:GLN:NE2	2.16	0.59
1:R:257:ALA:HB1	1:S:172:GLN:NE2	2.17	0.59
1:X:172:GLN:NE2	1:e:257:ALA:HB1	2.17	0.59
1:X:316:MET:HE1	1:e:285:TRP:CD1	2.36	0.59
1:a:293:MET:CG	1:a:333:GLU:HB2	2.32	0.59
1:a:404:ASP:OD2	1:a:529:ARG:NH2	2.35	0.59
1:b:225:LEU:HD22	1:b:229:ASN:HB3	1.83	0.59
1:b:404:ASP:OD2	1:b:529:ARG:NH2	2.35	0.59
1:f:172:GLN:NE2	1:g:257:ALA:HB1	2.17	0.59
1:f:293:MET:CG	1:f:333:GLU:HB2	2.33	0.59
1:f:404:ASP:OD2	1:f:529:ARG:NH2	2.35	0.59
1:g:41:THR:HG23	1:g:50:THR:HG22	1.84	0.59
1:h:293:MET:CG	1:h:333:GLU:HB2	2.32	0.59
1:j:285:TRP:CD1	1:k:316:MET:HE1	2.36	0.59
1:q:172:GLN:NE2	1:s:257:ALA:HB1	2.17	0.59
1:r:257:ALA:HB1	1:s:172:GLN:NE2	2.17	0.59
1:t:225:LEU:HD22	1:t:229:ASN:HB3	1.83	0.59
1:t:431:MET:HE2	1:v:265:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:285:TRP:CD1	1:v:316:MET:HE1	2.36	0.59
1:x:257:ALA:HB1	1:y:172:GLN:NE2	2.17	0.59
1:z:293:MET:CG	1:z:333:GLU:HB2	2.33	0.59
1:z:312:GLY:O	1:2:377:ARG:CD	2.49	0.59
1:1:377:ARG:CD	1:2:312:GLY:O	2.49	0.59
1:3:293:MET:CG	1:3:333:GLU:HB2	2.32	0.59
1:3:316:MET:HE1	1:4:285:TRP:CD1	2.36	0.59
1:5:172:GLN:NE2	1:7:257:ALA:HB1	2.17	0.59
1:5:293:MET:CG	1:5:333:GLU:HB2	2.32	0.59
1:6:257:ALA:HB1	1:7:172:GLN:NE2	2.17	0.59
1:8:336:GLN:HB2	1:8:406:ARG:HD3	1.85	0.59
1:B:431:MET:HE2	1:L:265:GLN:NE2	2.16	0.59
1:C:41:THR:HG23	1:C:50:THR:HG22	1.84	0.59
1:D:257:ALA:HB1	1:N:172:GLN:NE2	2.17	0.59
1:E:136:GLN:HA	1:E:461:GLU:HG2	1.85	0.59
1:E:312:GLY:O	1:F:377:ARG:CD	2.49	0.59
1:E:336:GLN:HB2	1:E:406:ARG:HD3	1.85	0.59
1:F:77:VAL:O	1:Q:277:HIS:HE1	1.86	0.59
1:F:172:GLN:NE2	1:Q:257:ALA:HB1	2.17	0.59
1:H:293:MET:CG	1:H:333:GLU:HB2	2.33	0.59
1:I:203:ASP:CG	1:I:204:ILE:N	2.59	0.59
1:J:277:HIS:HE1	1:L:77:VAL:O	1.86	0.59
1:L:293:MET:CG	1:L:333:GLU:HB2	2.33	0.59
1:Q:136:GLN:HA	1:Q:461:GLU:HG2	1.85	0.59
1:V:77:VAL:O	1:X:277:HIS:HE1	1.86	0.59
1:W:257:ALA:HB1	1:Y:172:GLN:NE2	2.17	0.59
1:Y:136:GLN:HA	1:Y:461:GLU:HG2	1.85	0.59
1:c:257:ALA:HB1	1:o:172:GLN:NE2	2.17	0.59
1:d:273:ALA:HB1	1:d:281:TRP:NE1	2.17	0.59
1:f:41:THR:HG23	1:f:50:THR:HG22	1.84	0.59
1:f:328:GLU:OE1	1:f:328:GLU:N	2.26	0.59
1:f:422:ASP:OD2	1:g:525:LYS:NZ	2.22	0.59
1:k:41:THR:HG23	1:k:50:THR:HG22	1.84	0.59
1:l:404:ASP:OD2	1:l:529:ARG:NH2	2.35	0.59
1:o:277:HIS:HE1	1:p:77:VAL:O	1.86	0.59
1:q:257:ALA:HB1	1:r:172:GLN:NE2	2.17	0.59
1:t:149:ASP:OD2	1:t:461:GLU:OE2	2.18	0.59
1:t:328:GLU:OE1	1:t:328:GLU:N	2.26	0.59
1:w:136:GLN:HA	1:w:461:GLU:HG2	1.85	0.59
1:w:286:LEU:HD13	1:w:398:ILE:HD11	1.85	0.59
1:x:136:GLN:HA	1:x:461:GLU:HG2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:277:HIS:HE1	1:y:77:VAL:O	1.86	0.59
1:x:404:ASP:OD2	1:x:529:ARG:NH2	2.35	0.59
1:8:41:THR:HG23	1:8:50:THR:HG22	1.84	0.59
1:A:275:ARG:HG2	1:G:81:GLU:OE1	2.02	0.59
1:A:294:THR:OG1	1:I:387:GLY:HA2	2.03	0.59
1:C:172:GLN:NE2	1:M:257:ALA:HB1	2.17	0.59
1:C:257:ALA:HB1	1:b:172:GLN:NE2	2.17	0.59
1:C:273:ALA:HB1	1:C:281:TRP:NE1	2.17	0.59
1:D:293:MET:CG	1:D:333:GLU:HB2	2.33	0.59
1:E:286:LEU:HD13	1:E:398:ILE:HD11	1.85	0.59
1:G:149:ASP:OD2	1:G:461:GLU:OE2	2.18	0.59
1:G:257:ALA:HB1	1:I:172:GLN:NE2	2.17	0.59
1:H:136:GLN:HA	1:H:461:GLU:HG2	1.85	0.59
1:H:257:ALA:HB1	1:W:172:GLN:NE2	2.17	0.59
1:I:293:MET:CG	1:I:333:GLU:HB2	2.33	0.59
1:J:165:PRO:O	1:J:189:TYR:OH	2.20	0.59
1:K:286:LEU:HD13	1:K:398:ILE:HD11	1.85	0.59
1:K:336:GLN:HB2	1:K:406:ARG:HD3	1.85	0.59
1:L:136:GLN:HA	1:L:461:GLU:HG2	1.85	0.59
1:M:293:MET:CG	1:M:333:GLU:HB2	2.33	0.59
1:M:328:GLU:OE1	1:M:328:GLU:N	2.26	0.59
1:N:293:MET:CG	1:N:333:GLU:HB2	2.33	0.59
1:Q:404:ASP:OD2	1:Q:529:ARG:NH2	2.35	0.59
1:S:63:LEU:HB2	1:S:65:MET:HE2	1.83	0.59
1:S:293:MET:CG	1:S:333:GLU:HB2	2.33	0.59
1:S:336:GLN:HB2	1:S:406:ARG:HD3	1.85	0.59
1:V:277:HIS:HE1	1:e:77:VAL:O	1.86	0.59
1:W:336:GLN:HB2	1:W:406:ARG:HD3	1.85	0.59
1:Y:293:MET:CG	1:Y:333:GLU:HB2	2.33	0.59
1:Z:41:THR:HG23	1:Z:50:THR:HG22	1.84	0.59
1:Z:77:VAL:O	1:3:277:HIS:HE1	1.86	0.59
1:Z:404:ASP:OD2	1:Z:529:ARG:NH2	2.35	0.59
1:a:63:LEU:HB2	1:a:65:MET:HE2	1.83	0.59
1:a:277:HIS:HE1	1:8:77:VAL:O	1.86	0.59
1:b:41:THR:HG23	1:b:50:THR:HG22	1.84	0.59
1:c:77:VAL:O	1:p:277:HIS:HE1	1.86	0.59
1:c:273:ALA:HB1	1:c:281:TRP:NE1	2.17	0.59
1:e:273:ALA:HB1	1:e:281:TRP:NE1	2.17	0.59
1:e:293:MET:CG	1:e:333:GLU:HB2	2.33	0.59
1:g:172:GLN:NE2	1:h:257:ALA:HB1	2.17	0.59
1:g:273:ALA:HB1	1:g:281:TRP:NE1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:328:GLU:OE1	1:h:328:GLU:N	2.26	0.59
1:i:273:ALA:HB1	1:i:281:TRP:NE1	2.17	0.59
1:k:273:ALA:HB1	1:k:281:TRP:NE1	2.17	0.59
1:k:293:MET:CG	1:k:333:GLU:HB2	2.32	0.59
1:n:273:ALA:HB1	1:n:281:TRP:NE1	2.17	0.59
1:r:293:MET:CG	1:r:333:GLU:HB2	2.33	0.59
1:t:257:ALA:HB1	1:u:172:GLN:NE2	2.17	0.59
1:t:285:TRP:CD1	1:u:316:MET:HE1	2.38	0.59
1:u:203:ASP:CG	1:u:204:ILE:N	2.59	0.59
1:u:293:MET:CG	1:u:333:GLU:HB2	2.33	0.59
1:w:312:GLY:O	1:y:377:ARG:CD	2.49	0.59
1:w:336:GLN:HB2	1:w:406:ARG:HD3	1.85	0.59
1:z:136:GLN:HA	1:z:461:GLU:HG2	1.85	0.59
1:1:293:MET:CG	1:1:333:GLU:HB2	2.32	0.59
1:4:286:LEU:HD13	1:4:398:ILE:HD11	1.85	0.59
1:5:136:GLN:HA	1:5:461:GLU:HG2	1.85	0.59
1:5:257:ALA:HB1	1:6:172:GLN:NE2	2.17	0.59
1:5:326:ARG:NE	1:5:328:GLU:OE2	2.34	0.59
1:6:336:GLN:HB2	1:6:406:ARG:HD3	1.85	0.59
1:7:136:GLN:HA	1:7:461:GLU:HG2	1.85	0.59
1:7:293:MET:CG	1:7:333:GLU:HB2	2.33	0.59
1:E:293:MET:CG	1:E:333:GLU:HB2	2.33	0.59
1:H:39:CYS:HB3	1:I:219:GLU:HA	1.84	0.59
1:H:41:THR:HG23	1:H:50:THR:HG22	1.84	0.59
1:L:336:GLN:HB2	1:L:406:ARG:HD3	1.85	0.59
1:M:39:CYS:HB3	1:N:219:GLU:HA	1.84	0.59
1:M:273:ALA:HB1	1:M:281:TRP:NE1	2.17	0.59
1:N:41:THR:HG23	1:N:50:THR:HG22	1.84	0.59
1:N:377:ARG:CD	1:P:312:GLY:O	2.50	0.59
1:O:273:ALA:HB1	1:O:281:TRP:NE1	2.17	0.59
1:R:63:LEU:HB2	1:R:65:MET:HE2	1.83	0.59
1:R:136:GLN:HA	1:R:461:GLU:HG2	1.85	0.59
1:R:293:MET:CG	1:R:333:GLU:HB2	2.32	0.59
1:T:136:GLN:HA	1:T:461:GLU:HG2	1.85	0.59
1:V:293:MET:CG	1:V:333:GLU:HB2	2.33	0.59
1:X:336:GLN:HB2	1:X:406:ARG:HD3	1.85	0.59
1:b:63:LEU:HB2	1:b:65:MET:HE2	1.83	0.59
1:b:136:GLN:HA	1:b:461:GLU:HG2	1.85	0.59
1:c:293:MET:CG	1:c:333:GLU:HB2	2.33	0.59
1:d:41:THR:HG23	1:d:50:THR:HG22	1.84	0.59
1:d:277:HIS:HE1	1:l:77:VAL:O	1.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:286:LEU:HD13	1:d:398:ILE:HD11	1.85	0.59
1:e:39:CYS:HB3	1:h:219:GLU:HA	1.84	0.59
1:i:41:THR:HG23	1:i:50:THR:HG22	1.84	0.59
1:i:136:GLN:HA	1:i:461:GLU:HG2	1.85	0.59
1:i:293:MET:CG	1:i:333:GLU:HB2	2.33	0.59
1:i:336:GLN:HB2	1:i:406:ARG:HD3	1.85	0.59
1:j:336:GLN:HB2	1:j:406:ARG:HD3	1.85	0.59
1:m:136:GLN:HA	1:m:461:GLU:HG2	1.85	0.59
1:o:336:GLN:HB2	1:o:406:ARG:HD3	1.85	0.59
1:p:293:MET:CG	1:p:333:GLU:HB2	2.33	0.59
1:q:136:GLN:HA	1:q:461:GLU:HG2	1.85	0.59
1:r:63:LEU:HB2	1:r:65:MET:HE2	1.83	0.59
1:r:336:GLN:HB2	1:r:406:ARG:HD3	1.85	0.59
1:t:77:VAL:O	1:v:277:HIS:HE1	1.85	0.59
1:u:219:GLU:HA	1:5:39:CYS:HB3	1.84	0.59
1:w:293:MET:CG	1:w:333:GLU:HB2	2.33	0.59
1:z:77:VAL:O	1:2:277:HIS:HE1	1.86	0.59
1:z:277:HIS:HE1	1:1:77:VAL:O	1.86	0.59
1:z:336:GLN:HB2	1:z:406:ARG:HD3	1.85	0.59
1:3:41:THR:HG23	1:3:50:THR:HG22	1.84	0.59
1:3:63:LEU:HB2	1:3:65:MET:HE2	1.83	0.59
1:4:336:GLN:HB2	1:4:406:ARG:HD3	1.85	0.59
1:5:41:THR:HG23	1:5:50:THR:HG22	1.84	0.59
1:6:273:ALA:HB1	1:6:281:TRP:NE1	2.17	0.59
1:8:404:ASP:OD2	1:8:529:ARG:NH2	2.35	0.59
1:B:77:VAL:O	1:L:277:HIS:HE1	1.86	0.59
1:B:219:GLU:HA	1:C:39:CYS:HB3	1.84	0.59
1:B:277:HIS:HE1	1:J:77:VAL:O	1.86	0.59
1:B:293:MET:CG	1:B:333:GLU:HB2	2.33	0.59
1:C:293:MET:CG	1:C:333:GLU:HB2	2.33	0.59
1:D:136:GLN:HA	1:D:461:GLU:HG2	1.85	0.59
1:L:404:ASP:OD2	1:L:529:ARG:NH2	2.35	0.59
1:M:219:GLU:HA	1:c:39:CYS:HB3	1.84	0.59
1:N:136:GLN:HA	1:N:461:GLU:HG2	1.85	0.59
1:N:336:GLN:HB2	1:N:406:ARG:HD3	1.85	0.59
1:O:77:VAL:O	1:n:277:HIS:HE1	1.86	0.59
1:P:118:SER:O	1:P:246:ASN:N	2.23	0.59
1:P:336:GLN:HB2	1:P:406:ARG:HD3	1.85	0.59
1:U:293:MET:CG	1:U:333:GLU:HB2	2.33	0.59
1:V:136:GLN:HA	1:V:461:GLU:HG2	1.85	0.59
1:W:273:ALA:HB1	1:W:281:TRP:NE1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:277:HIS:HE1	1:Y:77:VAL:O	1.86	0.59
1:X:77:VAL:O	1:e:277:HIS:HE1	1.86	0.59
1:a:41:THR:HG23	1:a:50:THR:HG22	1.84	0.59
1:c:277:HIS:HE1	1:o:77:VAL:O	1.86	0.59
1:d:136:GLN:HA	1:d:461:GLU:HG2	1.85	0.59
1:f:136:GLN:HA	1:f:461:GLU:HG2	1.85	0.59
1:g:293:MET:CG	1:g:333:GLU:HB2	2.33	0.59
1:h:39:CYS:HB3	1:i:219:GLU:HA	1.84	0.59
1:i:172:GLN:NE2	1:k:257:ALA:HB1	2.17	0.59
1:k:136:GLN:HA	1:k:461:GLU:HG2	1.85	0.59
1:l:219:GLU:HA	1:n:39:CYS:HB3	1.84	0.59
1:n:41:THR:HG23	1:n:50:THR:HG22	1.84	0.59
1:n:136:GLN:HA	1:n:461:GLU:HG2	1.85	0.59
1:n:286:LEU:HD13	1:n:398:ILE:HD11	1.85	0.59
1:o:273:ALA:HB1	1:o:281:TRP:NE1	2.17	0.59
1:p:136:GLN:HA	1:p:461:GLU:HG2	1.85	0.59
1:q:63:LEU:HB2	1:q:65:MET:HE2	1.83	0.59
1:q:273:ALA:HB1	1:q:281:TRP:NE1	2.17	0.59
1:q:293:MET:CG	1:q:333:GLU:HB2	2.32	0.59
1:r:277:HIS:HE1	1:s:77:VAL:O	1.86	0.59
1:t:293:MET:CG	1:t:333:GLU:HB2	2.32	0.59
1:v:336:GLN:HB2	1:v:406:ARG:HD3	1.85	0.59
1:z:404:ASP:OD2	1:z:529:ARG:NH2	2.35	0.59
1:1:277:HIS:HE1	1:2:77:VAL:O	1.86	0.59
1:D:225:LEU:HD22	1:D:229:ASN:HB3	1.83	0.59
1:G:277:HIS:HE1	1:I:77:VAL:O	1.86	0.59
1:J:293:MET:CG	1:J:333:GLU:HB2	2.33	0.59
1:K:77:VAL:O	1:8:277:HIS:HE1	1.86	0.59
1:M:336:GLN:HB2	1:M:406:ARG:HD3	1.85	0.59
1:R:273:ALA:HB1	1:R:281:TRP:NE1	2.17	0.59
1:S:277:HIS:HE1	1:U:77:VAL:O	1.86	0.59
1:X:203:ASP:CG	1:X:204:ILE:N	2.59	0.59
1:X:273:ALA:HB1	1:X:281:TRP:NE1	2.17	0.59
1:Z:277:HIS:HE1	1:4:77:VAL:O	1.86	0.59
1:b:56:CYS:HB3	1:b:186:LEU:CD1	2.33	0.59
1:c:267:ASP:OD1	1:c:271:ASN:N	2.27	0.59
1:f:63:LEU:HB2	1:f:65:MET:HE2	1.83	0.59
1:h:273:ALA:HB1	1:h:281:TRP:NE1	2.17	0.59
1:h:336:GLN:HB2	1:h:406:ARG:HD3	1.85	0.59
1:i:377:ARG:CD	1:j:312:GLY:O	2.50	0.59
1:l:273:ALA:HB1	1:l:281:TRP:NE1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:39:CYS:HB3	1:s:219:GLU:HA	1.84	0.59
1:o:203:ASP:CG	1:o:204:ILE:N	2.59	0.59
1:s:293:MET:CG	1:s:333:GLU:HB2	2.33	0.59
1:u:39:CYS:HB3	1:2:219:GLU:HA	1.84	0.59
1:u:63:LEU:HB2	1:u:65:MET:HE2	1.83	0.59
1:2:293:MET:CG	1:2:333:GLU:HB2	2.33	0.59
1:6:63:LEU:HB2	1:6:65:MET:HE2	1.83	0.59
1:6:277:HIS:HE1	1:7:77:VAL:O	1.86	0.59
1:A:336:GLN:HB2	1:A:406:ARG:HD3	1.85	0.59
1:E:56:CYS:HB3	1:E:186:LEU:CD1	2.33	0.59
1:E:63:LEU:HB2	1:E:65:MET:HE2	1.83	0.59
1:F:219:GLU:HA	1:R:39:CYS:HB3	1.84	0.59
1:F:336:GLN:HB2	1:F:406:ARG:HD3	1.85	0.59
1:H:77:VAL:O	1:Y:277:HIS:HE1	1.86	0.59
1:I:39:CYS:HB3	1:J:219:GLU:HA	1.84	0.59
1:J:39:CYS:HB3	1:a:219:GLU:HA	1.84	0.59
1:O:219:GLU:HA	1:d:39:CYS:HB3	1.84	0.59
1:P:39:CYS:HB3	1:Q:219:GLU:HA	1.84	0.59
1:Q:273:ALA:HB1	1:Q:281:TRP:NE1	2.17	0.59
1:T:39:CYS:HB3	1:U:219:GLU:HA	1.84	0.59
1:T:56:CYS:HB3	1:T:186:LEU:CD1	2.33	0.59
1:V:56:CYS:HB3	1:V:186:LEU:CD1	2.33	0.59
1:W:63:LEU:HB2	1:W:65:MET:HE2	1.84	0.59
1:X:136:GLN:HA	1:X:461:GLU:HG2	1.85	0.59
1:Z:293:MET:CG	1:Z:333:GLU:HB2	2.33	0.59
1:f:56:CYS:HB3	1:f:186:LEU:CD1	2.33	0.59
1:g:39:CYS:HB3	1:1:219:GLU:HA	1.84	0.59
1:k:225:LEU:HD22	1:k:229:ASN:HB3	1.83	0.59
1:l:293:MET:CG	1:l:333:GLU:HB2	2.33	0.59
1:m:56:CYS:HB3	1:m:186:LEU:CD1	2.33	0.59
1:n:293:MET:CG	1:n:333:GLU:HB2	2.32	0.59
1:o:136:GLN:HA	1:o:461:GLU:HG2	1.85	0.59
1:p:56:CYS:HB3	1:p:186:LEU:CD1	2.33	0.59
1:t:41:THR:HG23	1:t:50:THR:HG22	1.84	0.59
1:u:273:ALA:HB1	1:u:281:TRP:NE1	2.17	0.59
1:v:293:MET:CG	1:v:333:GLU:HB2	2.33	0.59
1:w:56:CYS:HB3	1:w:186:LEU:CD1	2.33	0.59
1:y:336:GLN:HB2	1:y:406:ARG:HD3	1.85	0.59
1:3:203:ASP:CG	1:3:204:ILE:N	2.59	0.59
1:3:273:ALA:HB1	1:3:281:TRP:NE1	2.17	0.59
1:A:293:MET:CG	1:A:333:GLU:HB2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:MET:HE2	1:I:265:GLN:NE2	2.17	0.59
1:D:336:GLN:HB2	1:D:406:ARG:HD3	1.85	0.59
1:F:273:ALA:HB1	1:F:281:TRP:NE1	2.17	0.59
1:G:41:THR:HG23	1:G:50:THR:HG22	1.84	0.59
1:G:293:MET:CG	1:G:333:GLU:HB2	2.33	0.59
1:I:286:LEU:HD13	1:I:398:ILE:HD11	1.85	0.59
1:K:56:CYS:HB3	1:K:186:LEU:CD1	2.33	0.59
1:U:336:GLN:HB2	1:U:406:ARG:HD3	1.85	0.59
1:W:293:MET:CG	1:W:333:GLU:HB2	2.33	0.59
1:a:136:GLN:HA	1:a:461:GLU:HG2	1.85	0.59
1:d:56:CYS:HB3	1:d:186:LEU:CD1	2.33	0.59
1:d:293:MET:CG	1:d:333:GLU:HB2	2.32	0.59
1:g:63:LEU:HB2	1:g:65:MET:HE2	1.83	0.59
1:j:39:CYS:HB3	1:x:219:GLU:HA	1.84	0.59
1:o:39:CYS:HB3	1:7:219:GLU:HA	1.84	0.59
1:q:39:CYS:HB3	1:y:219:GLU:HA	1.84	0.59
1:r:267:ASP:OD1	1:r:271:ASN:N	2.27	0.59
1:u:286:LEU:HD13	1:u:398:ILE:HD11	1.85	0.59
1:v:225:LEU:HD22	1:v:229:ASN:HB3	1.83	0.59
1:w:41:THR:HG23	1:w:50:THR:HG22	1.84	0.59
1:w:63:LEU:HB2	1:w:65:MET:HE2	1.84	0.59
1:z:328:GLU:OE1	1:z:328:GLU:N	2.26	0.59
1:3:136:GLN:HA	1:3:461:GLU:HG2	1.85	0.59
1:8:293:MET:CG	1:8:333:GLU:HB2	2.33	0.59
1:A:225:LEU:HD22	1:A:229:ASN:HB3	1.83	0.58
1:A:292:ASN:ND2	1:I:383:ALA:O	2.36	0.58
1:C:63:LEU:HB2	1:C:65:MET:HE2	1.83	0.58
1:D:63:LEU:HB2	1:D:65:MET:HE2	1.84	0.58
1:I:63:LEU:HB2	1:I:65:MET:HE2	1.83	0.58
1:I:273:ALA:HB1	1:I:281:TRP:NE1	2.17	0.58
1:O:293:MET:CG	1:O:333:GLU:HB2	2.33	0.58
1:P:293:MET:CG	1:P:333:GLU:HB2	2.33	0.58
1:X:267:ASP:OD1	1:X:271:ASN:N	2.27	0.58
1:a:203:ASP:CG	1:a:204:ILE:N	2.59	0.58
1:a:273:ALA:HB1	1:a:281:TRP:NE1	2.17	0.58
1:c:63:LEU:HB2	1:c:65:MET:HE2	1.83	0.58
1:f:277:HIS:HE1	1:h:77:VAL:O	1.86	0.58
1:k:336:GLN:HB2	1:k:406:ARG:HD3	1.85	0.58
1:n:56:CYS:HB3	1:n:186:LEU:CD1	2.33	0.58
1:o:404:ASP:OD2	1:o:529:ARG:NH2	2.35	0.58
1:s:336:GLN:HB2	1:s:406:ARG:HD3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:39:CYS:HB3	1:w:219:GLU:HA	1.84	0.58
1:v:219:GLU:HA	1:1:39:CYS:HB3	1.84	0.58
1:y:273:ALA:HB1	1:y:281:TRP:NE1	2.17	0.58
1:2:39:CYS:HB3	1:3:219:GLU:HA	1.84	0.58
1:4:56:CYS:HB3	1:4:186:LEU:CD1	2.33	0.58
1:5:77:VAL:O	1:7:277:HIS:HE1	1.86	0.58
1:5:277:HIS:HE1	1:6:77:VAL:O	1.86	0.58
1:6:293:MET:CG	1:6:333:GLU:HB2	2.33	0.58
1:7:56:CYS:HB3	1:7:186:LEU:CD1	2.33	0.58
1:A:268:LEU:HD13	1:G:317:GLY:HA3	1.85	0.58
1:B:41:THR:HG23	1:B:50:THR:HG22	1.84	0.58
1:E:41:THR:HG23	1:E:50:THR:HG22	1.84	0.58
1:F:56:CYS:HB3	1:F:186:LEU:CD1	2.33	0.58
1:G:203:ASP:CG	1:G:204:ILE:N	2.59	0.58
1:H:277:HIS:HE1	1:W:77:VAL:O	1.86	0.58
1:I:136:GLN:HA	1:I:461:GLU:HG2	1.85	0.58
1:J:336:GLN:HB2	1:J:406:ARG:HD3	1.85	0.58
1:M:77:VAL:O	1:b:277:HIS:HE1	1.86	0.58
1:N:267:ASP:OD1	1:N:271:ASN:N	2.27	0.58
1:S:267:ASP:OD1	1:S:271:ASN:N	2.27	0.58
1:S:302:ASN:O	1:S:305:THR:OG1	2.08	0.58
1:X:39:CYS:HB3	1:Y:219:GLU:HA	1.84	0.58
1:X:41:THR:HG23	1:X:50:THR:HG22	1.84	0.58
1:X:404:ASP:OD2	1:X:529:ARG:NH2	2.35	0.58
1:e:267:ASP:OD1	1:e:271:ASN:N	2.27	0.58
1:i:267:ASP:OD1	1:i:271:ASN:N	2.27	0.58
1:j:286:LEU:HD13	1:j:398:ILE:HD11	1.85	0.58
1:j:293:MET:CG	1:j:333:GLU:HB2	2.33	0.58
1:p:336:GLN:HB2	1:p:406:ARG:HD3	1.85	0.58
1:r:56:CYS:HB3	1:r:186:LEU:CD1	2.33	0.58
1:r:136:GLN:HA	1:r:461:GLU:HG2	1.85	0.58
1:u:136:GLN:HA	1:u:461:GLU:HG2	1.85	0.58
1:y:41:THR:HG23	1:y:50:THR:HG22	1.84	0.58
1:y:56:CYS:HB3	1:y:186:LEU:CD1	2.33	0.58
1:1:257:ALA:HB1	1:2:172:GLN:NE2	2.17	0.58
1:3:56:CYS:HB3	1:3:186:LEU:CD1	2.33	0.58
1:A:39:CYS:HB3	1:E:219:GLU:HA	1.84	0.58
1:B:257:ALA:HB1	1:J:172:GLN:NE2	2.17	0.58
1:D:77:VAL:O	1:P:277:HIS:HE1	1.86	0.58
1:D:172:GLN:NE2	1:P:257:ALA:HB1	2.17	0.58
1:F:39:CYS:HB3	1:G:219:GLU:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:41:THR:HG23	1:F:50:THR:HG22	1.84	0.58
1:R:267:ASP:OD1	1:R:271:ASN:N	2.27	0.58
1:S:56:CYS:HB3	1:S:186:LEU:CD1	2.33	0.58
1:S:136:GLN:HA	1:S:461:GLU:HG2	1.85	0.58
1:V:336:GLN:HB2	1:V:406:ARG:HD3	1.85	0.58
1:a:56:CYS:HB3	1:a:186:LEU:CD1	2.33	0.58
1:b:336:GLN:HB2	1:b:406:ARG:HD3	1.85	0.58
1:e:63:LEU:HB2	1:e:65:MET:HE2	1.83	0.58
1:f:336:GLN:HB2	1:f:406:ARG:HD3	1.85	0.58
1:j:277:HIS:HE1	1:k:77:VAL:O	1.86	0.58
1:k:63:LEU:HB2	1:k:65:MET:HE2	1.84	0.58
1:m:41:THR:HG23	1:m:50:THR:HG22	1.84	0.58
1:t:203:ASP:CG	1:t:204:ILE:N	2.59	0.58
1:z:219:GLU:HA	1:4:39:CYS:HB3	1.84	0.58
1:2:273:ALA:HB1	1:2:281:TRP:NE1	2.17	0.58
1:2:336:GLN:HB2	1:2:406:ARG:HD3	1.85	0.58
1:8:56:CYS:HB3	1:8:186:LEU:CD1	2.33	0.58
1:8:136:GLN:HA	1:8:461:GLU:HG2	1.85	0.58
1:A:285:TRP:CD1	1:G:316:MET:HE1	2.39	0.58
1:K:277:HIS:HE1	1:a:77:VAL:O	1.86	0.58
1:L:328:GLU:OE1	1:L:328:GLU:N	2.26	0.58
1:M:56:CYS:HB3	1:M:186:LEU:CD1	2.33	0.58
1:O:39:CYS:HB3	1:P:219:GLU:HA	1.84	0.58
1:O:56:CYS:HB3	1:O:186:LEU:CD1	2.33	0.58
1:P:286:LEU:HD13	1:P:398:ILE:HD11	1.85	0.58
1:T:41:THR:HG23	1:T:50:THR:HG22	1.84	0.58
1:U:56:CYS:HB3	1:U:186:LEU:CD1	2.33	0.58
1:Y:56:CYS:HB3	1:Y:186:LEU:CD1	2.33	0.58
1:Z:56:CYS:HB3	1:Z:186:LEU:CD1	2.33	0.58
1:Z:136:GLN:HA	1:Z:461:GLU:HG2	1.85	0.58
1:c:56:CYS:HB3	1:c:186:LEU:CD1	2.33	0.58
1:g:336:GLN:HB2	1:g:406:ARG:HD3	1.85	0.58
1:j:257:ALA:HB1	1:k:172:GLN:NE2	2.17	0.58
1:l:56:CYS:HB3	1:l:186:LEU:CD1	2.33	0.58
1:o:41:THR:HG23	1:o:50:THR:HG22	1.84	0.58
1:u:277:HIS:HE1	1:v:77:VAL:O	1.86	0.58
1:1:41:THR:HG23	1:1:50:THR:HG22	1.84	0.58
1:4:328:GLU:OE1	1:4:328:GLU:N	2.26	0.58
1:6:56:CYS:HB3	1:6:186:LEU:CD1	2.33	0.58
1:7:41:THR:HG23	1:7:50:THR:HG22	1.84	0.58
1:A:41:THR:HG23	1:A:50:THR:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:ALA:HB1	1:A:281:TRP:NE1	2.17	0.58
1:B:136:GLN:HA	1:B:461:GLU:HG2	1.85	0.58
1:B:330:ASP:HA	1:B:365:GLN:OE1	2.04	0.58
1:C:277:HIS:HE1	1:b:77:VAL:O	1.86	0.58
1:C:336:GLN:HB2	1:C:406:ARG:HD3	1.85	0.58
1:D:56:CYS:HB3	1:D:186:LEU:CD1	2.33	0.58
1:E:77:VAL:O	1:F:277:HIS:HE1	1.86	0.58
1:G:39:CYS:HB3	1:W:219:GLU:HA	1.84	0.58
1:G:136:GLN:HA	1:G:461:GLU:HG2	1.85	0.58
1:H:267:ASP:OD1	1:H:271:ASN:N	2.27	0.58
1:J:273:ALA:HB1	1:J:281:TRP:NE1	2.17	0.58
1:K:328:GLU:OE1	1:K:328:GLU:N	2.26	0.58
1:O:277:HIS:HE1	1:m:77:VAL:O	1.86	0.58
1:O:336:GLN:HB2	1:O:406:ARG:HD3	1.85	0.58
1:Q:293:MET:CG	1:Q:333:GLU:HB2	2.33	0.58
1:S:41:THR:HG23	1:S:50:THR:HG22	1.84	0.58
1:T:77:VAL:O	1:l:277:HIS:HE1	1.86	0.58
1:V:330:ASP:HA	1:V:365:GLN:OE1	2.04	0.58
1:W:56:CYS:HB3	1:W:186:LEU:CD1	2.33	0.58
1:X:219:GLU:HA	1:f:39:CYS:HB3	1.84	0.58
1:e:56:CYS:HB3	1:e:186:LEU:CD1	2.33	0.58
1:f:77:VAL:O	1:g:277:HIS:HE1	1.86	0.58
1:g:219:GLU:HA	1:k:39:CYS:HB3	1.84	0.58
1:h:56:CYS:HB3	1:h:186:LEU:CD1	2.33	0.58
1:h:136:GLN:HA	1:h:461:GLU:HG2	1.85	0.58
1:k:56:CYS:HB3	1:k:186:LEU:CD1	2.33	0.58
1:l:336:GLN:HB2	1:l:406:ARG:HD3	1.85	0.58
1:m:273:ALA:HB1	1:m:281:TRP:NE1	2.17	0.58
1:o:267:ASP:OD1	1:o:271:ASN:N	2.27	0.58
1:p:330:ASP:HA	1:p:365:GLN:OE1	2.04	0.58
1:r:41:THR:HG23	1:r:50:THR:HG22	1.84	0.58
1:s:56:CYS:HB3	1:s:186:LEU:CD1	2.33	0.58
1:t:136:GLN:HA	1:t:461:GLU:HG2	1.85	0.58
1:u:56:CYS:HB3	1:u:186:LEU:CD1	2.33	0.58
1:x:293:MET:CG	1:x:333:GLU:HB2	2.33	0.58
1:2:136:GLN:HA	1:2:461:GLU:HG2	1.85	0.58
1:C:56:CYS:HB3	1:C:186:LEU:CD1	2.33	0.58
1:C:219:GLU:HA	1:D:39:CYS:HB3	1.84	0.58
1:G:336:GLN:HB2	1:G:406:ARG:HD3	1.85	0.58
1:J:136:GLN:HA	1:J:461:GLU:HG2	1.85	0.58
1:K:39:CYS:HB3	1:L:219:GLU:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:136:GLN:HA	1:K:461:GLU:HG2	1.85	0.58
1:M:136:GLN:HA	1:M:461:GLU:HG2	1.85	0.58
1:O:203:ASP:CG	1:O:204:ILE:N	2.59	0.58
1:P:41:THR:HG23	1:P:50:THR:HG22	1.84	0.58
1:R:77:VAL:O	1:U:277:HIS:HE1	1.86	0.58
1:T:273:ALA:HB1	1:T:281:TRP:NE1	2.17	0.58
1:T:336:GLN:HB2	1:T:406:ARG:HD3	1.85	0.58
1:X:293:MET:CG	1:X:333:GLU:HB2	2.33	0.58
1:b:39:CYS:HB3	1:o:219:GLU:HA	1.84	0.58
1:c:336:GLN:HB2	1:c:406:ARG:HD3	1.85	0.58
1:e:336:GLN:HB2	1:e:406:ARG:HD3	1.85	0.58
1:f:302:ASN:O	1:f:305:THR:OG1	2.08	0.58
1:f:330:ASP:HA	1:f:365:GLN:OE1	2.04	0.58
1:g:56:CYS:HB3	1:g:186:LEU:CD1	2.33	0.58
1:j:41:THR:HG23	1:j:50:THR:HG22	1.84	0.58
1:t:56:CYS:HB3	1:t:186:LEU:CD1	2.33	0.58
1:u:330:ASP:HA	1:u:365:GLN:OE1	2.04	0.58
1:x:330:ASP:HA	1:x:365:GLN:OE1	2.04	0.58
1:1:136:GLN:HA	1:1:461:GLU:HG2	1.85	0.58
1:1:330:ASP:HA	1:1:365:GLN:OE1	2.04	0.58
1:3:77:VAL:O	1:4:277:HIS:HE1	1.86	0.58
1:4:136:GLN:HA	1:4:461:GLU:HG2	1.85	0.58
1:5:273:ALA:HB1	1:5:281:TRP:NE1	2.17	0.58
1:G:56:CYS:HB3	1:G:186:LEU:CD1	2.33	0.58
1:H:56:CYS:HB3	1:H:186:LEU:CD1	2.33	0.58
1:I:56:CYS:HB3	1:I:186:LEU:CD1	2.33	0.58
1:I:330:ASP:HA	1:I:365:GLN:OE1	2.04	0.58
1:K:41:THR:HG23	1:K:50:THR:HG22	1.84	0.58
1:Q:41:THR:HG23	1:Q:50:THR:HG22	1.84	0.58
1:Q:330:ASP:HA	1:Q:365:GLN:OE1	2.04	0.58
1:R:330:ASP:HA	1:R:365:GLN:OE1	2.04	0.58
1:T:165:PRO:O	1:T:189:TYR:OH	2.20	0.58
1:V:288:GLY:H	1:V:403:TRP:HB3	1.69	0.58
1:Y:41:THR:HG23	1:Y:50:THR:HG22	1.84	0.58
1:b:330:ASP:HA	1:b:365:GLN:OE1	2.04	0.58
1:l:203:ASP:CG	1:l:204:ILE:N	2.59	0.58
1:m:165:PRO:O	1:m:189:TYR:OH	2.20	0.58
1:o:293:MET:CG	1:o:333:GLU:HB2	2.33	0.58
1:p:288:GLY:H	1:p:403:TRP:HB3	1.69	0.58
1:q:56:CYS:HB3	1:q:186:LEU:CD1	2.33	0.58
1:q:77:VAL:O	1:s:277:HIS:HE1	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:267:ASP:OD1	1:q:271:ASN:N	2.27	0.58
1:q:330:ASP:HA	1:q:365:GLN:OE1	2.04	0.58
1:t:336:GLN:HB2	1:t:406:ARG:HD3	1.85	0.58
1:v:41:THR:HG23	1:v:50:THR:HG22	1.84	0.58
1:v:273:ALA:HB1	1:v:281:TRP:NE1	2.17	0.58
1:w:77:VAL:O	1:y:277:HIS:HE1	1.86	0.58
1:3:336:GLN:HB2	1:3:406:ARG:HD3	1.85	0.58
1:4:41:THR:HG23	1:4:50:THR:HG22	1.84	0.58
1:8:330:ASP:HA	1:8:365:GLN:OE1	2.04	0.58
1:A:330:ASP:HA	1:A:365:GLN:OE1	2.04	0.58
1:B:273:ALA:HB1	1:B:281:TRP:NE1	2.17	0.58
1:D:277:HIS:HE1	1:N:77:VAL:O	1.86	0.58
1:H:219:GLU:HA	1:Z:39:CYS:HB3	1.84	0.58
1:H:273:ALA:HB1	1:H:281:TRP:NE1	2.17	0.58
1:L:56:CYS:HB3	1:L:186:LEU:CD1	2.33	0.58
1:L:330:ASP:HA	1:L:365:GLN:OE1	2.04	0.58
1:Q:288:GLY:H	1:Q:403:TRP:HB3	1.69	0.58
1:R:219:GLU:HA	1:V:39:CYS:HB3	1.84	0.58
1:R:288:GLY:H	1:R:403:TRP:HB3	1.69	0.58
1:S:39:CYS:HB3	1:d:219:GLU:HA	1.84	0.58
1:T:293:MET:CG	1:T:333:GLU:HB2	2.33	0.58
1:W:330:ASP:HA	1:W:365:GLN:OE1	2.04	0.58
1:X:56:CYS:HB3	1:X:186:LEU:CD1	2.33	0.58
1:X:288:GLY:H	1:X:403:TRP:HB3	1.69	0.58
1:X:330:ASP:HA	1:X:365:GLN:OE1	2.04	0.58
1:Y:203:ASP:CG	1:Y:204:ILE:N	2.59	0.58
1:Y:330:ASP:HA	1:Y:365:GLN:OE1	2.04	0.58
1:Z:330:ASP:HA	1:Z:365:GLN:OE1	2.04	0.58
1:i:328:GLU:OE1	1:i:328:GLU:N	2.26	0.58
1:j:330:ASP:HA	1:j:365:GLN:OE1	2.04	0.58
1:m:277:HIS:HE1	1:n:77:VAL:O	1.86	0.58
1:m:336:GLN:HB2	1:m:406:ARG:HD3	1.85	0.58
1:o:288:GLY:H	1:o:403:TRP:HB3	1.69	0.58
1:o:330:ASP:HA	1:o:365:GLN:OE1	2.04	0.58
1:p:39:CYS:HB3	1:q:219:GLU:HA	1.84	0.58
1:t:312:GLY:O	1:v:377:ARG:HD2	2.04	0.58
1:x:41:THR:HG23	1:x:50:THR:HG22	1.84	0.58
1:x:56:CYS:HB3	1:x:186:LEU:CD1	2.33	0.58
1:z:330:ASP:HA	1:z:365:GLN:OE1	2.04	0.58
1:2:288:GLY:H	1:2:403:TRP:HB3	1.69	0.58
1:5:267:ASP:OD1	1:5:271:ASN:N	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:330:ASP:HA	1:6:365:GLN:OE1	2.04	0.58
1:B:288:GLY:H	1:B:403:TRP:HB3	1.69	0.58
1:E:165:PRO:O	1:E:189:TYR:OH	2.20	0.58
1:F:293:MET:CG	1:F:333:GLU:HB2	2.32	0.58
1:J:288:GLY:H	1:J:403:TRP:HB3	1.69	0.58
1:Q:56:CYS:HB3	1:Q:186:LEU:CD1	2.33	0.58
1:R:56:CYS:HB3	1:R:186:LEU:CD1	2.33	0.58
1:T:277:HIS:HE1	1:d:77:VAL:O	1.86	0.58
1:U:136:GLN:HA	1:U:461:GLU:HG2	1.85	0.58
1:Y:288:GLY:H	1:Y:403:TRP:HB3	1.69	0.58
1:d:288:GLY:H	1:d:403:TRP:HB3	1.69	0.58
1:f:219:GLU:HA	1:z:39:CYS:HB3	1.84	0.58
1:g:330:ASP:HA	1:g:365:GLN:OE1	2.04	0.58
1:h:41:THR:HG23	1:h:50:THR:HG22	1.84	0.58
1:j:219:GLU:HA	1:l:39:CYS:HB3	1.84	0.58
1:n:203:ASP:CG	1:n:204:ILE:N	2.59	0.58
1:n:219:GLU:HA	1:r:39:CYS:HB3	1.84	0.58
1:n:288:GLY:H	1:n:403:TRP:HB3	1.69	0.58
1:q:288:GLY:H	1:q:403:TRP:HB3	1.69	0.58
1:t:268:LEU:HD13	1:u:317:GLY:HA3	1.86	0.58
1:u:288:GLY:H	1:u:403:TRP:HB3	1.69	0.58
1:v:330:ASP:HA	1:v:365:GLN:OE1	2.04	0.58
1:x:288:GLY:H	1:x:403:TRP:HB3	1.69	0.58
1:z:56:CYS:HB3	1:z:186:LEU:CD1	2.33	0.58
1:1:273:ALA:HB1	1:1:281:TRP:NE1	2.17	0.58
1:3:288:GLY:H	1:3:403:TRP:HB3	1.69	0.58
1:7:288:GLY:H	1:7:403:TRP:HB3	1.69	0.58
1:7:330:ASP:HA	1:7:365:GLN:OE1	2.04	0.58
1:C:136:GLN:HA	1:C:461:GLU:HG2	1.85	0.58
1:C:330:ASP:HA	1:C:365:GLN:OE1	2.04	0.58
1:E:330:ASP:HA	1:E:365:GLN:OE1	2.04	0.58
1:I:288:GLY:H	1:I:403:TRP:HB3	1.69	0.58
1:M:41:THR:HG23	1:M:50:THR:HG22	1.84	0.58
1:O:136:GLN:HA	1:O:461:GLU:HG2	1.85	0.58
1:a:288:GLY:H	1:a:403:TRP:HB3	1.69	0.58
1:i:77:VAL:O	1:k:277:HIS:HE1	1.86	0.58
1:l:136:GLN:HA	1:l:461:GLU:HG2	1.85	0.58
1:l:286:LEU:HD13	1:l:398:ILE:HD11	1.85	0.58
1:m:293:MET:CG	1:m:333:GLU:HB2	2.33	0.58
1:n:330:ASP:HA	1:n:365:GLN:OE1	2.04	0.58
1:o:56:CYS:HB3	1:o:186:LEU:CD1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:136:GLN:HA	1:s:461:GLU:HG2	1.85	0.58
1:s:165:PRO:O	1:s:189:TYR:OH	2.20	0.58
1:w:165:PRO:O	1:w:189:TYR:OH	2.20	0.58
1:1:288:GLY:H	1:1:403:TRP:HB3	1.69	0.58
1:4:330:ASP:HA	1:4:365:GLN:OE1	2.04	0.58
1:5:56:CYS:HB3	1:5:186:LEU:CD1	2.33	0.58
1:7:203:ASP:CG	1:7:204:ILE:N	2.59	0.58
1:A:136:GLN:HA	1:A:461:GLU:HG2	1.85	0.57
1:A:316:MET:HE1	1:I:285:TRP:HD1	1.68	0.57
1:A:383:ALA:O	1:G:292:ASN:ND2	2.36	0.57
1:B:336:GLN:HB2	1:B:406:ARG:HD3	1.85	0.57
1:G:310:ASP:OD1	1:G:315:TYR:HD1	1.87	0.57
1:K:330:ASP:HA	1:K:365:GLN:OE1	2.04	0.57
1:M:330:ASP:HA	1:M:365:GLN:OE1	2.04	0.57
1:P:330:ASP:HA	1:P:365:GLN:OE1	2.04	0.57
1:R:277:HIS:HE1	1:S:77:VAL:O	1.86	0.57
1:S:288:GLY:H	1:S:403:TRP:HB3	1.69	0.57
1:V:165:PRO:O	1:V:189:TYR:OH	2.20	0.57
1:V:302:ASN:O	1:V:305:THR:OG1	2.08	0.57
1:W:288:GLY:H	1:W:403:TRP:HB3	1.69	0.57
1:Y:286:LEU:HD13	1:Y:398:ILE:HD11	1.85	0.57
1:a:336:GLN:HB2	1:a:406:ARG:HD3	1.85	0.57
1:d:330:ASP:HA	1:d:365:GLN:OE1	2.04	0.57
1:h:330:ASP:HA	1:h:365:GLN:OE1	2.04	0.57
1:i:118:SER:O	1:i:246:ASN:N	2.23	0.57
1:r:288:GLY:H	1:r:403:TRP:HB3	1.69	0.57
1:w:330:ASP:HA	1:w:365:GLN:OE1	2.04	0.57
1:y:293:MET:CG	1:y:333:GLU:HB2	2.33	0.57
1:5:336:GLN:HB2	1:5:406:ARG:HD3	1.85	0.57
1:8:203:ASP:CG	1:8:204:ILE:N	2.59	0.57
1:C:165:PRO:O	1:C:189:TYR:OH	2.20	0.57
1:E:277:HIS:HE1	1:Q:77:VAL:O	1.86	0.57
1:G:330:ASP:HA	1:G:365:GLN:OE1	2.04	0.57
1:H:336:GLN:HB2	1:H:406:ARG:HD3	1.85	0.57
1:J:289:PRO:HG3	1:J:397:CYS:SG	2.45	0.57
1:L:39:CYS:HB3	1:b:219:GLU:HA	1.84	0.57
1:O:286:LEU:HD13	1:O:398:ILE:HD11	1.85	0.57
1:P:56:CYS:HB3	1:P:186:LEU:CD1	2.33	0.57
1:T:330:ASP:HA	1:T:365:GLN:OE1	2.04	0.57
1:a:330:ASP:HA	1:a:365:GLN:OE1	2.04	0.57
1:b:288:GLY:H	1:b:403:TRP:HB3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:302:ASN:O	1:b:305:THR:OG1	2.08	0.57
1:e:136:GLN:HA	1:e:461:GLU:HG2	1.85	0.57
1:g:77:VAL:O	1:h:277:HIS:HE1	1.86	0.57
1:g:136:GLN:HA	1:g:461:GLU:HG2	1.85	0.57
1:i:277:HIS:HE1	1:j:77:VAL:O	1.86	0.57
1:m:289:PRO:HG3	1:m:397:CYS:SG	2.45	0.57
1:m:330:ASP:HA	1:m:365:GLN:OE1	2.04	0.57
1:p:165:PRO:O	1:p:189:TYR:OH	2.20	0.57
1:q:277:HIS:HE1	1:r:77:VAL:O	1.86	0.57
1:t:310:ASP:OD1	1:t:315:TYR:HD1	1.88	0.57
1:t:330:ASP:HA	1:t:365:GLN:OE1	2.04	0.57
1:1:336:GLN:HB2	1:1:406:ARG:HD3	1.85	0.57
1:2:289:PRO:HG3	1:2:397:CYS:SG	2.45	0.57
1:3:330:ASP:HA	1:3:365:GLN:OE1	2.04	0.57
1:5:219:GLU:HA	1:8:39:CYS:HB3	1.84	0.57
1:A:289:PRO:HG3	1:A:397:CYS:SG	2.45	0.57
1:C:77:VAL:O	1:M:277:HIS:HE1	1.86	0.57
1:C:289:PRO:HG3	1:C:397:CYS:SG	2.45	0.57
1:D:317:GLY:HA3	1:P:268:LEU:HD13	1.87	0.57
1:F:288:GLY:H	1:F:403:TRP:HB3	1.69	0.57
1:L:286:LEU:HD13	1:L:398:ILE:HD11	1.85	0.57
1:N:289:PRO:HG3	1:N:397:CYS:SG	2.45	0.57
1:N:328:GLU:OE1	1:N:328:GLU:N	2.26	0.57
1:O:310:ASP:OD1	1:O:315:TYR:HD1	1.88	0.57
1:P:289:PRO:HG3	1:P:397:CYS:SG	2.45	0.57
1:R:289:PRO:HG3	1:R:397:CYS:SG	2.45	0.57
1:T:289:PRO:HG3	1:T:397:CYS:SG	2.45	0.57
1:c:219:GLU:HA	1:s:39:CYS:HB3	1.84	0.57
1:f:288:GLY:H	1:f:403:TRP:HB3	1.69	0.57
1:g:289:PRO:HG3	1:g:397:CYS:SG	2.45	0.57
1:i:289:PRO:HG3	1:i:397:CYS:SG	2.45	0.57
1:j:268:LEU:HD13	1:k:317:GLY:HA3	1.87	0.57
1:j:289:PRO:HG3	1:j:397:CYS:SG	2.45	0.57
1:j:310:ASP:OD1	1:j:315:TYR:HD1	1.88	0.57
1:l:310:ASP:OD1	1:l:315:TYR:HD1	1.88	0.57
1:t:277:HIS:HE1	1:u:77:VAL:O	1.87	0.57
1:v:136:GLN:HA	1:v:461:GLU:HG2	1.85	0.57
1:y:289:PRO:HG3	1:y:397:CYS:SG	2.45	0.57
1:z:288:GLY:H	1:z:403:TRP:HB3	1.69	0.57
1:3:310:ASP:OD1	1:3:315:TYR:HD1	1.87	0.57
1:6:288:GLY:H	1:6:403:TRP:HB3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:286:LEU:HD13	1:7:398:ILE:HD11	1.85	0.57
1:A:56:CYS:HB3	1:A:186:LEU:CD1	2.33	0.57
1:B:383:ALA:O	1:J:292:ASN:ND2	2.38	0.57
1:C:288:GLY:H	1:C:403:TRP:HB3	1.69	0.57
1:F:289:PRO:HG3	1:F:397:CYS:SG	2.45	0.57
1:L:165:PRO:O	1:L:189:TYR:OH	2.20	0.57
1:L:288:GLY:H	1:L:403:TRP:HB3	1.69	0.57
1:N:56:CYS:HB3	1:N:186:LEU:CD1	2.33	0.57
1:N:277:HIS:HE1	1:P:77:VAL:O	1.86	0.57
1:R:336:GLN:HB2	1:R:406:ARG:HD3	1.85	0.57
1:U:39:CYS:HB3	1:e:219:GLU:HA	1.84	0.57
1:Z:203:ASP:CG	1:Z:204:ILE:N	2.59	0.57
1:a:310:ASP:OD1	1:a:315:TYR:HD1	1.88	0.57
1:c:136:GLN:HA	1:c:461:GLU:HG2	1.85	0.57
1:d:203:ASP:CG	1:d:204:ILE:N	2.59	0.57
1:g:288:GLY:H	1:g:403:TRP:HB3	1.69	0.57
1:j:56:CYS:HB3	1:j:186:LEU:CD1	2.33	0.57
1:l:330:ASP:HA	1:l:365:GLN:OE1	2.04	0.57
1:n:289:PRO:HG3	1:n:397:CYS:SG	2.45	0.57
1:o:286:LEU:HD13	1:o:398:ILE:HD11	1.85	0.57
1:q:289:PRO:HG3	1:q:397:CYS:SG	2.45	0.57
1:q:336:GLN:HB2	1:q:406:ARG:HD3	1.85	0.57
1:v:56:CYS:HB3	1:v:186:LEU:CD1	2.33	0.57
1:v:286:LEU:HD13	1:v:398:ILE:HD11	1.85	0.57
1:v:289:PRO:HG3	1:v:397:CYS:SG	2.45	0.57
1:w:277:HIS:HE1	1:x:77:VAL:O	1.86	0.57
1:x:336:GLN:HB2	1:x:406:ARG:HD3	1.85	0.57
1:y:136:GLN:HA	1:y:461:GLU:HG2	1.85	0.57
1:y:310:ASP:OD1	1:y:315:TYR:HD1	1.87	0.57
1:1:383:ALA:O	1:2:292:ASN:ND2	2.38	0.57
1:5:330:ASP:HA	1:5:365:GLN:OE1	2.04	0.57
1:7:336:GLN:HB2	1:7:406:ARG:HD3	1.85	0.57
1:A:286:LEU:HD13	1:A:398:ILE:HD11	1.85	0.57
1:A:288:GLY:H	1:A:403:TRP:HB3	1.69	0.57
1:A:312:GLY:O	1:I:377:ARG:HD2	2.04	0.57
1:D:268:LEU:HD13	1:N:317:GLY:HA3	1.87	0.57
1:D:288:GLY:H	1:D:403:TRP:HB3	1.69	0.57
1:F:310:ASP:OD1	1:F:315:TYR:HD1	1.87	0.57
1:K:288:GLY:H	1:K:403:TRP:HB3	1.69	0.57
1:W:289:PRO:HG3	1:W:397:CYS:SG	2.45	0.57
1:a:289:PRO:HG3	1:a:397:CYS:SG	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:310:ASP:OD1	1:c:315:TYR:HD1	1.88	0.57
1:g:165:PRO:O	1:g:189:TYR:OH	2.20	0.57
1:g:310:ASP:OD1	1:g:315:TYR:HD1	1.87	0.57
1:i:56:CYS:HB3	1:i:186:LEU:CD1	2.33	0.57
1:j:165:PRO:O	1:j:189:TYR:OH	2.20	0.57
1:k:288:GLY:H	1:k:403:TRP:HB3	1.69	0.57
1:k:289:PRO:HG3	1:k:397:CYS:SG	2.45	0.57
1:k:330:ASP:HA	1:k:365:GLN:OE1	2.04	0.57
1:o:310:ASP:OD1	1:o:315:TYR:HD1	1.87	0.57
1:r:289:PRO:HG3	1:r:397:CYS:SG	2.45	0.57
1:z:286:LEU:HD13	1:z:398:ILE:HD11	1.85	0.57
1:3:289:PRO:HG3	1:3:397:CYS:SG	2.45	0.57
1:A:328:GLU:OE1	1:A:328:GLU:N	2.26	0.57
1:C:317:GLY:HA3	1:M:268:LEU:HD13	1.87	0.57
1:D:328:GLU:OE1	1:D:328:GLU:N	2.26	0.57
1:F:317:GLY:HA3	1:Q:268:LEU:HD13	1.87	0.57
1:G:288:GLY:H	1:G:403:TRP:HB3	1.69	0.57
1:H:330:ASP:HA	1:H:365:GLN:OE1	2.04	0.57
1:L:289:PRO:HG3	1:L:397:CYS:SG	2.45	0.57
1:M:288:GLY:H	1:M:403:TRP:HB3	1.69	0.57
1:N:288:GLY:H	1:N:403:TRP:HB3	1.69	0.57
1:O:330:ASP:HA	1:O:365:GLN:OE1	2.04	0.57
1:O:383:ALA:O	1:m:292:ASN:ND2	2.37	0.57
1:P:310:ASP:OD1	1:P:315:TYR:HD1	1.88	0.57
1:Q:336:GLN:HB2	1:Q:406:ARG:HD3	1.85	0.57
1:S:289:PRO:HG3	1:S:397:CYS:SG	2.45	0.57
1:X:286:LEU:HD13	1:X:398:ILE:HD11	1.85	0.57
1:X:310:ASP:OD1	1:X:315:TYR:HD1	1.88	0.57
1:Y:336:GLN:HB2	1:Y:406:ARG:HD3	1.85	0.57
1:d:289:PRO:HG3	1:d:397:CYS:SG	2.45	0.57
1:e:310:ASP:OD1	1:e:315:TYR:HD1	1.88	0.57
1:f:310:ASP:OD1	1:f:315:TYR:HD1	1.87	0.57
1:h:288:GLY:H	1:h:403:TRP:HB3	1.69	0.57
1:i:317:GLY:HA3	1:k:268:LEU:HD13	1.87	0.57
1:j:136:GLN:HA	1:j:461:GLU:HG2	1.85	0.57
1:p:302:ASN:O	1:p:305:THR:OG1	2.08	0.57
1:w:65:MET:HE3	1:w:67:LYS:HE2	1.87	0.57
1:w:268:LEU:HD13	1:x:317:GLY:HA3	1.87	0.57
1:x:268:LEU:HD13	1:y:317:GLY:HA3	1.87	0.57
1:y:288:GLY:H	1:y:403:TRP:HB3	1.69	0.57
1:1:56:CYS:HB3	1:1:186:LEU:CD1	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:288:GLY:H	1:5:403:TRP:HB3	1.69	0.57
1:8:288:GLY:H	1:8:403:TRP:HB3	1.69	0.57
1:B:56:CYS:HB3	1:B:186:LEU:CD1	2.33	0.57
1:C:310:ASP:OD1	1:C:315:TYR:HD1	1.88	0.57
1:D:289:PRO:HG3	1:D:397:CYS:SG	2.45	0.57
1:D:330:ASP:HA	1:D:365:GLN:OE1	2.04	0.57
1:E:65:MET:HE3	1:E:67:LYS:HE2	1.87	0.57
1:E:268:LEU:HD13	1:Q:317:GLY:HA3	1.87	0.57
1:F:65:MET:HE3	1:F:67:LYS:HE2	1.87	0.57
1:H:292:ASN:ND2	1:Y:383:ALA:O	2.38	0.57
1:K:238:ASP:O	1:K:241:THR:OG1	2.21	0.57
1:L:65:MET:HE3	1:L:67:LYS:HE2	1.87	0.57
1:N:118:SER:O	1:N:246:ASN:N	2.24	0.57
1:P:136:GLN:HA	1:P:461:GLU:HG2	1.85	0.57
1:S:330:ASP:HA	1:S:365:GLN:OE1	2.04	0.57
1:S:383:ALA:O	1:U:292:ASN:ND2	2.38	0.57
1:U:330:ASP:HA	1:U:365:GLN:OE1	2.04	0.57
1:V:301:ALA:HB3	1:X:269:ARG:NH1	2.20	0.57
1:W:136:GLN:HA	1:W:461:GLU:HG2	1.85	0.57
1:W:310:ASP:OD1	1:W:315:TYR:HD1	1.87	0.57
1:Z:165:PRO:O	1:Z:189:TYR:OH	2.20	0.57
1:Z:288:GLY:H	1:Z:403:TRP:HB3	1.69	0.57
1:b:310:ASP:OD1	1:b:315:TYR:HD1	1.88	0.57
1:c:165:PRO:O	1:c:189:TYR:OH	2.20	0.57
1:d:65:MET:HE3	1:d:67:LYS:HE2	1.87	0.57
1:e:165:PRO:O	1:e:189:TYR:OH	2.20	0.57
1:i:330:ASP:HA	1:i:365:GLN:OE1	2.04	0.57
1:n:65:MET:HE3	1:n:67:LYS:HE2	1.87	0.57
1:r:383:ALA:O	1:s:292:ASN:ND2	2.38	0.57
1:s:289:PRO:HG3	1:s:397:CYS:SG	2.45	0.57
1:t:288:GLY:H	1:t:403:TRP:HB3	1.69	0.57
1:t:416:GLN:NE2	1:v:285:TRP:HZ3	2.03	0.57
1:u:383:ALA:O	1:v:292:ASN:ND2	2.38	0.57
1:v:288:GLY:H	1:v:403:TRP:HB3	1.69	0.57
1:v:328:GLU:OE1	1:v:328:GLU:N	2.26	0.57
1:z:65:MET:HE3	1:z:67:LYS:HE2	1.87	0.57
1:z:165:PRO:O	1:z:189:TYR:OH	2.20	0.57
1:4:288:GLY:H	1:4:403:TRP:HB3	1.69	0.57
1:5:292:ASN:ND2	1:7:383:ALA:O	2.38	0.57
1:6:136:GLN:HA	1:6:461:GLU:HG2	1.85	0.57
1:6:289:PRO:HG3	1:6:397:CYS:SG	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:165:PRO:O	1:8:189:TYR:OH	2.20	0.57
1:F:136:GLN:HA	1:F:461:GLU:HG2	1.85	0.57
1:F:330:ASP:HA	1:F:365:GLN:OE1	2.04	0.57
1:H:288:GLY:H	1:H:403:TRP:HB3	1.69	0.57
1:I:289:PRO:HG3	1:I:397:CYS:SG	2.45	0.57
1:M:292:ASN:ND2	1:b:383:ALA:O	2.38	0.57
1:T:292:ASN:ND2	1:l:383:ALA:O	2.37	0.57
1:U:289:PRO:HG3	1:U:397:CYS:SG	2.45	0.57
1:W:65:MET:HE3	1:W:67:LYS:HE2	1.87	0.57
1:X:301:ALA:HB3	1:e:269:ARG:NH1	2.20	0.57
1:Z:292:ASN:ND2	1:3:383:ALA:O	2.38	0.57
1:c:269:ARG:NH1	1:o:301:ALA:HB3	2.20	0.57
1:e:330:ASP:HA	1:e:365:GLN:OE1	2.04	0.57
1:f:383:ALA:O	1:h:292:ASN:ND2	2.38	0.57
1:h:289:PRO:HG3	1:h:397:CYS:SG	2.45	0.57
1:i:288:GLY:H	1:i:403:TRP:HB3	1.69	0.57
1:o:269:ARG:NH1	1:p:301:ALA:HB3	2.20	0.57
1:r:203:ASP:CG	1:r:204:ILE:N	2.59	0.57
1:r:268:LEU:HD13	1:s:317:GLY:HA3	1.87	0.57
1:r:330:ASP:HA	1:r:365:GLN:OE1	2.04	0.57
1:t:383:ALA:O	1:u:292:ASN:ND2	2.37	0.57
1:u:289:PRO:HG3	1:u:397:CYS:SG	2.45	0.57
1:u:336:GLN:HB2	1:u:406:ARG:HD3	1.85	0.57
1:1:286:LEU:HD13	1:1:398:ILE:HD11	1.85	0.57
1:4:238:ASP:O	1:4:241:THR:OG1	2.21	0.57
1:5:383:ALA:O	1:6:292:ASN:ND2	2.38	0.57
1:6:310:ASP:OD1	1:6:315:TYR:HD1	1.87	0.57
1:C:328:GLU:OE1	1:C:328:GLU:N	2.26	0.57
1:C:383:ALA:O	1:b:292:ASN:ND2	2.38	0.57
1:D:310:ASP:OD1	1:D:315:TYR:HD1	1.87	0.57
1:H:383:ALA:O	1:W:292:ASN:ND2	2.38	0.57
1:I:336:GLN:HB2	1:I:406:ARG:HD3	1.85	0.57
1:K:65:MET:HE3	1:K:67:LYS:HE2	1.87	0.57
1:M:289:PRO:HG3	1:M:397:CYS:SG	2.45	0.57
1:N:330:ASP:HA	1:N:365:GLN:OE1	2.04	0.57
1:U:310:ASP:OD1	1:U:315:TYR:HD1	1.87	0.57
1:V:310:ASP:OD1	1:V:315:TYR:HD1	1.88	0.57
1:Z:328:GLU:OE1	1:Z:328:GLU:N	2.26	0.57
1:a:285:TRP:HD1	1:8:316:MET:HE1	1.70	0.57
1:a:383:ALA:O	1:8:292:ASN:ND2	2.38	0.57
1:c:330:ASP:HA	1:c:365:GLN:OE1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:155:GLN:HG2	1:d:224:MET:HG2	1.87	0.57
1:d:285:TRP:HD1	1:l:316:MET:HE1	1.70	0.57
1:e:288:GLY:H	1:e:403:TRP:HB3	1.69	0.57
1:n:155:GLN:HG2	1:n:224:MET:HG2	1.87	0.57
1:p:310:ASP:OD1	1:p:315:TYR:HD1	1.88	0.57
1:q:238:ASP:O	1:q:241:THR:OG1	2.21	0.57
1:s:310:ASP:OD1	1:s:315:TYR:HD1	1.87	0.57
1:s:330:ASP:HA	1:s:365:GLN:OE1	2.04	0.57
1:u:310:ASP:OD1	1:u:315:TYR:HD1	1.88	0.57
1:y:65:MET:HE3	1:y:67:LYS:HE2	1.87	0.57
1:y:155:GLN:HG2	1:y:224:MET:HG2	1.87	0.57
1:z:238:ASP:O	1:z:241:THR:OG1	2.21	0.57
1:z:289:PRO:HG3	1:z:397:CYS:SG	2.45	0.57
1:z:310:ASP:OD1	1:z:315:TYR:HD1	1.87	0.57
1:4:65:MET:HE3	1:4:67:LYS:HE2	1.87	0.57
1:D:65:MET:HE3	1:D:67:LYS:HE2	1.87	0.57
1:E:310:ASP:OD1	1:E:315:TYR:HD1	1.87	0.57
1:E:328:GLU:OE1	1:E:328:GLU:N	2.26	0.57
1:F:155:GLN:HG2	1:F:224:MET:HG2	1.87	0.57
1:I:310:ASP:OD1	1:I:315:TYR:HD1	1.88	0.57
1:J:65:MET:HE3	1:J:67:LYS:HE2	1.87	0.57
1:L:310:ASP:OD1	1:L:315:TYR:HD1	1.87	0.57
1:Q:65:MET:HE3	1:Q:67:LYS:HE2	1.87	0.57
1:Q:238:ASP:O	1:Q:241:THR:OG1	2.21	0.57
1:Q:289:PRO:HG3	1:Q:397:CYS:SG	2.45	0.57
1:S:268:LEU:HD13	1:U:317:GLY:HA3	1.87	0.57
1:S:269:ARG:NH1	1:U:301:ALA:HB3	2.20	0.57
1:U:155:GLN:HG2	1:U:224:MET:HG2	1.87	0.57
1:Y:289:PRO:HG3	1:Y:397:CYS:SG	2.45	0.57
1:Z:316:MET:HE1	1:3:285:TRP:HD1	1.70	0.57
1:a:286:LEU:HD13	1:a:398:ILE:HD11	1.85	0.57
1:c:288:GLY:H	1:c:403:TRP:HB3	1.69	0.57
1:d:336:GLN:HB2	1:d:406:ARG:HD3	1.85	0.57
1:f:292:ASN:ND2	1:g:383:ALA:O	2.38	0.57
1:g:292:ASN:ND2	1:h:383:ALA:O	2.38	0.57
1:g:317:GLY:HA3	1:h:268:LEU:HD13	1.87	0.57
1:i:269:ARG:NH1	1:j:301:ALA:HB3	2.20	0.57
1:k:238:ASP:O	1:k:241:THR:OG1	2.21	0.57
1:n:336:GLN:HB2	1:n:406:ARG:HD3	1.85	0.57
1:o:285:TRP:HD1	1:p:316:MET:HE1	1.70	0.57
1:r:269:ARG:NH1	1:s:301:ALA:HB3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:155:GLN:HG2	1:s:224:MET:HG2	1.87	0.57
1:v:310:ASP:OD1	1:v:315:TYR:HD1	1.88	0.57
1:w:269:ARG:NH1	1:x:301:ALA:HB3	2.20	0.57
1:x:65:MET:HE3	1:x:67:LYS:HE2	1.87	0.57
1:y:330:ASP:HA	1:y:365:GLN:OE1	2.04	0.57
1:2:286:LEU:HD13	1:2:398:ILE:HD11	1.85	0.57
1:2:330:ASP:HA	1:2:365:GLN:OE1	2.04	0.57
1:5:301:ALA:HB3	1:7:269:ARG:NH1	2.20	0.57
1:6:155:GLN:HG2	1:6:224:MET:HG2	1.87	0.57
1:B:286:LEU:HD13	1:B:398:ILE:HD11	1.85	0.56
1:C:155:GLN:HG2	1:C:224:MET:HG2	1.87	0.56
1:C:292:ASN:ND2	1:M:383:ALA:O	2.38	0.56
1:E:269:ARG:NH1	1:Q:301:ALA:HB3	2.20	0.56
1:E:289:PRO:HG3	1:E:397:CYS:SG	2.45	0.56
1:E:316:MET:HE1	1:F:285:TRP:HD1	1.70	0.56
1:G:268:LEU:HD13	1:I:317:GLY:HA3	1.87	0.56
1:H:65:MET:HE3	1:H:67:LYS:HE2	1.87	0.56
1:H:301:ALA:HB3	1:Y:269:ARG:NH1	2.20	0.56
1:J:56:CYS:HB3	1:J:186:LEU:CD1	2.33	0.56
1:J:330:ASP:HA	1:J:365:GLN:OE1	2.04	0.56
1:K:310:ASP:OD1	1:K:315:TYR:HD1	1.88	0.56
1:N:269:ARG:NH1	1:P:301:ALA:HB3	2.20	0.56
1:N:310:ASP:OD1	1:N:315:TYR:HD1	1.88	0.56
1:O:65:MET:HE3	1:O:67:LYS:HE2	1.87	0.56
1:O:155:GLN:HG2	1:O:224:MET:HG2	1.87	0.56
1:O:292:ASN:ND2	1:n:383:ALA:O	2.38	0.56
1:O:316:MET:HE1	1:n:285:TRP:HD1	1.70	0.56
1:R:238:ASP:O	1:R:241:THR:OG1	2.21	0.56
1:R:268:LEU:HD13	1:S:317:GLY:HA3	1.87	0.56
1:R:269:ARG:NH1	1:S:301:ALA:HB3	2.20	0.56
1:T:65:MET:HE3	1:T:67:LYS:HE2	1.87	0.56
1:T:302:ASN:O	1:T:305:THR:OG1	2.08	0.56
1:V:219:GLU:HA	1:W:39:CYS:HB3	1.84	0.56
1:V:269:ARG:NH1	1:e:301:ALA:HB3	2.20	0.56
1:V:316:MET:HE1	1:X:285:TRP:HD1	1.70	0.56
1:W:155:GLN:HG2	1:W:224:MET:HG2	1.87	0.56
1:Z:289:PRO:HG3	1:Z:397:CYS:SG	2.45	0.56
1:c:289:PRO:HG3	1:c:397:CYS:SG	2.45	0.56
1:c:301:ALA:HB3	1:p:269:ARG:NH1	2.20	0.56
1:e:289:PRO:HG3	1:e:397:CYS:SG	2.45	0.56
1:g:155:GLN:HG2	1:g:224:MET:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:301:ALA:HB3	1:k:269:ARG:NH1	2.20	0.56
1:i:310:ASP:OD1	1:i:315:TYR:HD1	1.88	0.56
1:i:383:ALA:O	1:j:292:ASN:ND2	2.38	0.56
1:k:65:MET:HE3	1:k:67:LYS:HE2	1.87	0.56
1:k:328:GLU:OE1	1:k:328:GLU:N	2.26	0.56
1:l:65:MET:HE3	1:l:67:LYS:HE2	1.87	0.56
1:m:65:MET:HE3	1:m:67:LYS:HE2	1.87	0.56
1:m:310:ASP:OD1	1:m:315:TYR:HD1	1.87	0.56
1:w:288:GLY:H	1:w:403:TRP:HB3	1.69	0.56
1:x:289:PRO:HG3	1:x:397:CYS:SG	2.45	0.56
1:1:155:GLN:HG2	1:1:224:MET:HG2	1.87	0.56
1:2:65:MET:HE3	1:2:67:LYS:HE2	1.87	0.56
1:3:65:MET:HE3	1:3:67:LYS:HE2	1.87	0.56
1:3:286:LEU:HD13	1:3:398:ILE:HD11	1.85	0.56
1:5:65:MET:HE3	1:5:67:LYS:HE2	1.87	0.56
1:5:286:LEU:HD13	1:5:398:ILE:HD11	1.85	0.56
1:6:65:MET:HE3	1:6:67:LYS:HE2	1.87	0.56
1:6:268:LEU:HD13	1:7:317:GLY:HA3	1.87	0.56
1:7:289:PRO:HG3	1:7:397:CYS:SG	2.45	0.56
1:A:310:ASP:OD1	1:A:315:TYR:HD1	1.88	0.56
1:B:155:GLN:HG2	1:B:224:MET:HG2	1.87	0.56
1:D:238:ASP:O	1:D:241:THR:OG1	2.21	0.56
1:D:269:ARG:NH1	1:N:301:ALA:HB3	2.20	0.56
1:E:383:ALA:O	1:Q:292:ASN:ND2	2.38	0.56
1:F:316:MET:HE1	1:Q:285:TRP:HD1	1.70	0.56
1:G:285:TRP:HD1	1:I:316:MET:HE1	1.70	0.56
1:N:383:ALA:O	1:P:292:ASN:ND2	2.38	0.56
1:O:288:GLY:H	1:O:403:TRP:HB3	1.69	0.56
1:P:288:GLY:H	1:P:403:TRP:HB3	1.69	0.56
1:Q:290:VAL:HG11	1:Q:379:GLN:HA	1.87	0.56
1:V:268:LEU:HD13	1:e:317:GLY:HA3	1.87	0.56
1:V:292:ASN:ND2	1:X:383:ALA:O	2.38	0.56
1:Z:100:GLN:HA	1:Z:413:PRO:HA	1.87	0.56
1:a:65:MET:HE3	1:a:67:LYS:HE2	1.87	0.56
1:a:302:ASN:O	1:a:305:THR:OG1	2.08	0.56
1:c:317:GLY:HA3	1:p:268:LEU:HD13	1.87	0.56
1:d:383:ALA:O	1:l:292:ASN:ND2	2.38	0.56
1:j:288:GLY:H	1:j:403:TRP:HB3	1.69	0.56
1:k:290:VAL:HG11	1:k:379:GLN:HA	1.87	0.56
1:l:155:GLN:HG2	1:l:224:MET:HG2	1.87	0.56
1:o:383:ALA:O	1:p:292:ASN:ND2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:219:GLU:HA	1:6:39:CYS:HB3	1.84	0.56
1:q:269:ARG:NH1	1:r:301:ALA:HB3	2.20	0.56
1:t:39:CYS:HB3	1:6:219:GLU:HA	1.86	0.56
1:t:458:TYR:OH	1:y:347:ASN:HB2	2.05	0.56
1:w:316:MET:HE1	1:y:285:TRP:HD1	1.70	0.56
1:y:268:LEU:N	1:y:280:SER:O	2.38	0.56
1:1:310:ASP:OD1	1:1:315:TYR:HD1	1.88	0.56
1:3:155:GLN:HG2	1:3:224:MET:HG2	1.87	0.56
1:4:310:ASP:OD1	1:4:315:TYR:HD1	1.87	0.56
1:8:100:GLN:HA	1:8:413:PRO:HA	1.87	0.56
1:8:289:PRO:HG3	1:8:397:CYS:SG	2.45	0.56
1:A:155:GLN:HG2	1:A:224:MET:HG2	1.87	0.56
1:B:290:VAL:HG11	1:B:379:GLN:HA	1.88	0.56
1:B:310:ASP:OD1	1:B:315:TYR:HD1	1.88	0.56
1:C:269:ARG:NH1	1:b:301:ALA:HB3	2.20	0.56
1:C:301:ALA:HB3	1:M:269:ARG:NH1	2.20	0.56
1:D:290:VAL:HG11	1:D:379:GLN:HA	1.87	0.56
1:D:301:ALA:HB3	1:P:269:ARG:NH1	2.20	0.56
1:E:288:GLY:H	1:E:403:TRP:HB3	1.69	0.56
1:F:268:LEU:N	1:F:280:SER:O	2.38	0.56
1:F:290:VAL:HG11	1:F:379:GLN:HA	1.87	0.56
1:G:65:MET:HE3	1:G:67:LYS:HE2	1.87	0.56
1:G:268:LEU:N	1:G:280:SER:O	2.38	0.56
1:G:269:ARG:NH1	1:I:301:ALA:HB3	2.20	0.56
1:G:289:PRO:HG3	1:G:397:CYS:SG	2.45	0.56
1:H:100:GLN:HA	1:H:413:PRO:HA	1.88	0.56
1:H:268:LEU:N	1:H:280:SER:O	2.38	0.56
1:I:290:VAL:HG11	1:I:379:GLN:HA	1.88	0.56
1:J:286:LEU:HD13	1:J:398:ILE:HD11	1.85	0.56
1:K:269:ARG:NH1	1:a:301:ALA:HB3	2.20	0.56
1:K:289:PRO:HG3	1:K:397:CYS:SG	2.45	0.56
1:M:317:GLY:HA3	1:b:268:LEU:HD13	1.87	0.56
1:N:39:CYS:HB3	1:m:219:GLU:HA	1.84	0.56
1:N:268:LEU:HD13	1:P:317:GLY:HA3	1.87	0.56
1:O:100:GLN:HA	1:O:413:PRO:HA	1.87	0.56
1:O:268:LEU:N	1:O:280:SER:O	2.38	0.56
1:O:289:PRO:HG3	1:O:397:CYS:SG	2.45	0.56
1:O:290:VAL:HG11	1:O:379:GLN:HA	1.87	0.56
1:Q:310:ASP:OD1	1:Q:315:TYR:HD1	1.88	0.56
1:R:310:ASP:OD1	1:R:315:TYR:HD1	1.88	0.56
1:S:155:GLN:HG2	1:S:224:MET:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:203:ASP:CG	1:S:204:ILE:N	2.59	0.56
1:S:310:ASP:OD1	1:S:315:TYR:HD1	1.88	0.56
1:T:219:GLU:HA	1:i:39:CYS:HB3	1.84	0.56
1:T:268:LEU:HD13	1:d:317:GLY:HA3	1.87	0.56
1:T:288:GLY:H	1:T:403:TRP:HB3	1.69	0.56
1:T:310:ASP:OD1	1:T:315:TYR:HD1	1.88	0.56
1:T:383:ALA:O	1:d:292:ASN:ND2	2.38	0.56
1:U:288:GLY:H	1:U:403:TRP:HB3	1.69	0.56
1:W:268:LEU:HD13	1:Y:317:GLY:HA3	1.87	0.56
1:X:292:ASN:ND2	1:e:383:ALA:O	2.38	0.56
1:Y:310:ASP:OD1	1:Y:315:TYR:HD1	1.88	0.56
1:a:155:GLN:HG2	1:a:224:MET:HG2	1.87	0.56
1:b:65:MET:HE3	1:b:67:LYS:HE2	1.87	0.56
1:b:155:GLN:HG2	1:b:224:MET:HG2	1.87	0.56
1:b:238:ASP:O	1:b:241:THR:OG1	2.21	0.56
1:c:65:MET:HE3	1:c:67:LYS:HE2	1.87	0.56
1:d:100:GLN:HA	1:d:413:PRO:HA	1.87	0.56
1:e:65:MET:HE3	1:e:67:LYS:HE2	1.87	0.56
1:f:155:GLN:HG2	1:f:224:MET:HG2	1.87	0.56
1:f:268:LEU:HD13	1:h:317:GLY:HA3	1.87	0.56
1:g:238:ASP:O	1:g:241:THR:OG1	2.21	0.56
1:g:301:ALA:HB3	1:h:269:ARG:NH1	2.20	0.56
1:g:328:GLU:OE1	1:g:328:GLU:N	2.26	0.56
1:i:268:LEU:HD13	1:j:317:GLY:HA3	1.87	0.56
1:j:269:ARG:NH1	1:k:301:ALA:HB3	2.20	0.56
1:k:310:ASP:OD1	1:k:315:TYR:HD1	1.88	0.56
1:l:268:LEU:N	1:l:280:SER:O	2.38	0.56
1:n:100:GLN:HA	1:n:413:PRO:HA	1.87	0.56
1:p:238:ASP:O	1:p:241:THR:OG1	2.21	0.56
1:p:289:PRO:HG3	1:p:397:CYS:SG	2.45	0.56
1:q:100:GLN:HA	1:q:413:PRO:HA	1.87	0.56
1:q:268:LEU:HD13	1:r:317:GLY:HA3	1.87	0.56
1:q:310:ASP:OD1	1:q:315:TYR:HD1	1.88	0.56
1:r:310:ASP:OD1	1:r:315:TYR:HD1	1.88	0.56
1:s:288:GLY:H	1:s:403:TRP:HB3	1.69	0.56
1:t:268:LEU:N	1:t:280:SER:O	2.38	0.56
1:t:285:TRP:HZ3	1:u:416:GLN:NE2	2.04	0.56
1:t:290:VAL:HG11	1:t:379:GLN:HA	1.87	0.56
1:t:292:ASN:ND2	1:v:383:ALA:O	2.38	0.56
1:u:290:VAL:HG11	1:u:379:GLN:HA	1.87	0.56
1:w:289:PRO:HG3	1:w:397:CYS:SG	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:310:ASP:OD1	1:w:315:TYR:HD1	1.88	0.56
1:w:383:ALA:O	1:x:292:ASN:ND2	2.38	0.56
1:x:238:ASP:O	1:x:241:THR:OG1	2.21	0.56
1:x:285:TRP:HD1	1:y:316:MET:HE1	1.70	0.56
1:x:290:VAL:HG11	1:x:379:GLN:HA	1.87	0.56
1:x:310:ASP:OD1	1:x:315:TYR:HD1	1.88	0.56
1:y:290:VAL:HG11	1:y:379:GLN:HA	1.87	0.56
1:z:317:GLY:HA3	1:2:268:LEU:HD13	1.87	0.56
1:1:290:VAL:HG11	1:1:379:GLN:HA	1.87	0.56
1:2:56:CYS:HB3	1:2:186:LEU:CD1	2.33	0.56
1:2:310:ASP:OD1	1:2:315:TYR:HD1	1.88	0.56
1:3:301:ALA:HB3	1:4:269:ARG:NH1	2.20	0.56
1:4:289:PRO:HG3	1:4:397:CYS:SG	2.45	0.56
1:5:100:GLN:HA	1:5:413:PRO:HA	1.87	0.56
1:5:155:GLN:HG2	1:5:224:MET:HG2	1.87	0.56
1:5:268:LEU:N	1:5:280:SER:O	2.38	0.56
1:5:310:ASP:OD1	1:5:315:TYR:HD1	1.88	0.56
1:7:310:ASP:OD1	1:7:315:TYR:HD1	1.88	0.56
1:8:328:GLU:OE1	1:8:328:GLU:N	2.26	0.56
1:A:238:ASP:O	1:A:241:THR:OG1	2.21	0.56
1:A:272:ASP:HB2	1:G:339:TRP:CH2	2.41	0.56
1:A:285:TRP:HZ3	1:G:416:GLN:NE2	2.03	0.56
1:A:298:ALA:O	1:I:269:ARG:CZ	2.53	0.56
1:F:301:ALA:HB3	1:Q:269:ARG:NH1	2.20	0.56
1:G:100:GLN:HA	1:G:413:PRO:HA	1.87	0.56
1:H:155:GLN:HG2	1:H:224:MET:HG2	1.87	0.56
1:H:268:LEU:HD13	1:W:317:GLY:HA3	1.87	0.56
1:H:286:LEU:HD13	1:H:398:ILE:HD11	1.85	0.56
1:H:289:PRO:HG3	1:H:397:CYS:SG	2.45	0.56
1:H:310:ASP:OD1	1:H:315:TYR:HD1	1.88	0.56
1:J:268:LEU:HD13	1:L:317:GLY:HA3	1.87	0.56
1:J:310:ASP:OD1	1:J:315:TYR:HD1	1.88	0.56
1:M:301:ALA:HB3	1:b:269:ARG:NH1	2.20	0.56
1:R:100:GLN:HA	1:R:413:PRO:HA	1.87	0.56
1:T:301:ALA:HB3	1:l:269:ARG:NH1	2.21	0.56
1:V:289:PRO:HG3	1:V:397:CYS:SG	2.45	0.56
1:V:383:ALA:O	1:e:292:ASN:ND2	2.38	0.56
1:X:317:GLY:HA3	1:e:268:LEU:HD13	1.87	0.56
1:Z:310:ASP:OD1	1:Z:315:TYR:HD1	1.88	0.56
1:Z:317:GLY:HA3	1:3:268:LEU:HD13	1.87	0.56
1:a:290:VAL:HG11	1:a:379:GLN:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:289:PRO:HG3	1:b:397:CYS:SG	2.45	0.56
1:b:328:GLU:OE1	1:b:328:GLU:N	2.26	0.56
1:c:383:ALA:O	1:o:292:ASN:ND2	2.38	0.56
1:f:65:MET:HE3	1:f:67:LYS:HE2	1.87	0.56
1:f:238:ASP:O	1:f:241:THR:OG1	2.21	0.56
1:f:289:PRO:HG3	1:f:397:CYS:SG	2.45	0.56
1:f:301:ALA:HB3	1:g:269:ARG:NH1	2.20	0.56
1:l:100:GLN:HA	1:l:413:PRO:HA	1.87	0.56
1:l:289:PRO:HG3	1:l:397:CYS:SG	2.45	0.56
1:m:268:LEU:HD13	1:n:317:GLY:HA3	1.87	0.56
1:m:288:GLY:H	1:m:403:TRP:HB3	1.69	0.56
1:m:383:ALA:O	1:n:292:ASN:ND2	2.38	0.56
1:q:268:LEU:N	1:q:280:SER:O	2.38	0.56
1:q:286:LEU:HD13	1:q:398:ILE:HD11	1.85	0.56
1:q:301:ALA:HB3	1:s:269:ARG:NH1	2.20	0.56
1:r:155:GLN:HG2	1:r:224:MET:HG2	1.87	0.56
1:t:65:MET:HE3	1:t:67:LYS:HE2	1.87	0.56
1:t:100:GLN:HA	1:t:413:PRO:HA	1.87	0.56
1:u:268:LEU:HD13	1:v:317:GLY:HA3	1.87	0.56
1:u:269:ARG:NH1	1:v:301:ALA:HB3	2.20	0.56
1:v:155:GLN:HG2	1:v:224:MET:HG2	1.87	0.56
1:v:268:LEU:N	1:v:280:SER:O	2.38	0.56
1:x:269:ARG:NH1	1:y:301:ALA:HB3	2.20	0.56
1:3:290:VAL:HG11	1:3:379:GLN:HA	1.87	0.56
1:5:289:PRO:HG3	1:5:397:CYS:SG	2.45	0.56
1:7:155:GLN:HG2	1:7:224:MET:HG2	1.87	0.56
1:8:310:ASP:OD1	1:8:315:TYR:HD1	1.88	0.56
1:A:165:PRO:O	1:A:189:TYR:OH	2.20	0.56
1:A:268:LEU:N	1:A:280:SER:O	2.38	0.56
1:B:65:MET:HE3	1:B:67:LYS:HE2	1.87	0.56
1:B:285:TRP:HD1	1:J:316:MET:HE1	1.70	0.56
1:B:289:PRO:HG3	1:B:397:CYS:SG	2.45	0.56
1:B:328:GLU:OE1	1:B:328:GLU:N	2.26	0.56
1:D:100:GLN:HA	1:D:413:PRO:HA	1.88	0.56
1:F:328:GLU:OE1	1:F:328:GLU:N	2.26	0.56
1:G:290:VAL:HG11	1:G:379:GLN:HA	1.88	0.56
1:J:290:VAL:HG11	1:J:379:GLN:HA	1.88	0.56
1:L:155:GLN:HG2	1:L:224:MET:HG2	1.87	0.56
1:O:269:ARG:NH1	1:m:301:ALA:HB3	2.21	0.56
1:P:65:MET:HE3	1:P:67:LYS:HE2	1.87	0.56
1:R:268:LEU:N	1:R:280:SER:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:301:ALA:HB3	1:U:269:ARG:NH1	2.20	0.56
1:R:316:MET:HE1	1:U:285:TRP:HD1	1.70	0.56
1:V:238:ASP:O	1:V:241:THR:OG1	2.21	0.56
1:Y:155:GLN:HG2	1:Y:224:MET:HG2	1.87	0.56
1:a:268:LEU:HD13	1:8:317:GLY:HA3	1.87	0.56
1:b:165:PRO:O	1:b:189:TYR:OH	2.20	0.56
1:c:268:LEU:HD13	1:o:317:GLY:HA3	1.87	0.56
1:f:165:PRO:O	1:f:189:TYR:OH	2.20	0.56
1:h:310:ASP:OD1	1:h:315:TYR:HD1	1.88	0.56
1:j:65:MET:HE3	1:j:67:LYS:HE2	1.87	0.56
1:j:290:VAL:HG11	1:j:379:GLN:HA	1.87	0.56
1:l:288:GLY:H	1:l:403:TRP:HB3	1.69	0.56
1:l:290:VAL:HG11	1:l:379:GLN:HA	1.88	0.56
1:o:289:PRO:HG3	1:o:397:CYS:SG	2.45	0.56
1:p:65:MET:HE3	1:p:67:LYS:HE2	1.87	0.56
1:p:100:GLN:HA	1:p:413:PRO:HA	1.87	0.56
1:q:316:MET:HE1	1:s:285:TRP:HD1	1.70	0.56
1:s:65:MET:HE3	1:s:67:LYS:HE2	1.87	0.56
1:t:289:PRO:HG3	1:t:397:CYS:SG	2.45	0.56
1:u:285:TRP:HD1	1:v:316:MET:HE1	1.70	0.56
1:x:383:ALA:O	1:y:292:ASN:ND2	2.38	0.56
1:z:301:ALA:HB3	1:2:269:ARG:NH1	2.20	0.56
1:1:65:MET:HE3	1:1:67:LYS:HE2	1.87	0.56
1:1:285:TRP:HD1	1:2:316:MET:HE1	1.71	0.56
1:5:268:LEU:HD13	1:6:317:GLY:HA3	1.87	0.56
1:B:269:ARG:NH1	1:J:301:ALA:HB3	2.20	0.56
1:B:292:ASN:ND2	1:L:383:ALA:O	2.38	0.56
1:C:238:ASP:O	1:C:241:THR:OG1	2.21	0.56
1:I:165:PRO:O	1:I:189:TYR:OH	2.20	0.56
1:J:269:ARG:NH1	1:L:301:ALA:HB3	2.20	0.56
1:J:383:ALA:O	1:L:292:ASN:ND2	2.38	0.56
1:K:219:GLU:HA	1:7:39:CYS:HB3	1.84	0.56
1:K:292:ASN:ND2	1:8:383:ALA:O	2.37	0.56
1:K:316:MET:HE1	1:8:285:TRP:HD1	1.71	0.56
1:L:268:LEU:N	1:L:280:SER:O	2.38	0.56
1:M:155:GLN:HG2	1:M:224:MET:HG2	1.87	0.56
1:N:268:LEU:N	1:N:280:SER:O	2.38	0.56
1:O:317:GLY:HA3	1:n:268:LEU:HD13	1.87	0.56
1:T:269:ARG:NH1	1:d:301:ALA:HB3	2.20	0.56
1:U:65:MET:HE3	1:U:67:LYS:HE2	1.87	0.56
1:U:100:GLN:HA	1:U:413:PRO:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:65:MET:HE3	1:V:67:LYS:HE2	1.87	0.56
1:V:100:GLN:HA	1:V:413:PRO:HA	1.87	0.56
1:V:268:LEU:N	1:V:280:SER:O	2.38	0.56
1:Z:383:ALA:O	1:4:292:ASN:ND2	2.37	0.56
1:c:292:ASN:ND2	1:p:383:ALA:O	2.38	0.56
1:f:269:ARG:NH1	1:h:301:ALA:HB3	2.20	0.56
1:i:268:LEU:N	1:i:280:SER:O	2.38	0.56
1:k:100:GLN:HA	1:k:413:PRO:HA	1.88	0.56
1:k:268:LEU:N	1:k:280:SER:O	2.38	0.56
1:m:269:ARG:NH1	1:n:301:ALA:HB3	2.20	0.56
1:m:302:ASN:O	1:m:305:THR:OG1	2.08	0.56
1:p:268:LEU:N	1:p:280:SER:O	2.38	0.56
1:s:100:GLN:HA	1:s:413:PRO:HA	1.87	0.56
1:t:238:ASP:O	1:t:241:THR:OG1	2.21	0.56
1:v:100:GLN:HA	1:v:413:PRO:HA	1.88	0.56
1:v:238:ASP:O	1:v:241:THR:OG1	2.21	0.56
1:w:301:ALA:HB3	1:y:269:ARG:NH1	2.20	0.56
1:z:155:GLN:HG2	1:z:224:MET:HG2	1.87	0.56
1:z:269:ARG:NH1	1:1:301:ALA:HB3	2.20	0.56
1:1:289:PRO:HG3	1:1:397:CYS:SG	2.45	0.56
1:2:290:VAL:HG11	1:2:379:GLN:HA	1.87	0.56
1:3:292:ASN:ND2	1:4:383:ALA:O	2.38	0.56
1:4:155:GLN:HG2	1:4:224:MET:HG2	1.87	0.56
1:6:268:LEU:N	1:6:280:SER:O	2.38	0.56
1:6:290:VAL:HG11	1:6:379:GLN:HA	1.87	0.56
1:A:100:GLN:HA	1:A:413:PRO:HA	1.88	0.56
1:B:268:LEU:HD13	1:J:317:GLY:HA3	1.87	0.56
1:B:301:ALA:HB3	1:L:269:ARG:NH1	2.20	0.56
1:D:268:LEU:N	1:D:280:SER:O	2.38	0.56
1:D:383:ALA:O	1:N:292:ASN:ND2	2.38	0.56
1:E:301:ALA:HB3	1:F:269:ARG:NH1	2.20	0.56
1:F:292:ASN:ND2	1:Q:383:ALA:O	2.38	0.56
1:I:155:GLN:HG2	1:I:224:MET:HG2	1.87	0.56
1:K:155:GLN:HG2	1:K:224:MET:HG2	1.87	0.56
1:M:310:ASP:OD1	1:M:315:TYR:HD1	1.88	0.56
1:N:285:TRP:HD1	1:P:316:MET:HE1	1.71	0.56
1:P:290:VAL:HG11	1:P:379:GLN:HA	1.88	0.56
1:R:155:GLN:HG2	1:R:224:MET:HG2	1.87	0.56
1:R:286:LEU:HD13	1:R:398:ILE:HD11	1.85	0.56
1:R:290:VAL:HG11	1:R:379:GLN:HA	1.88	0.56
1:S:100:GLN:HA	1:S:413:PRO:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:268:LEU:N	1:W:280:SER:O	2.38	0.56
1:W:269:ARG:NH1	1:Y:301:ALA:HB3	2.20	0.56
1:W:290:VAL:HG11	1:W:379:GLN:HA	1.87	0.56
1:W:383:ALA:O	1:Y:292:ASN:ND2	2.38	0.56
1:X:65:MET:HE3	1:X:67:LYS:HE2	1.87	0.56
1:X:155:GLN:HG2	1:X:224:MET:HG2	1.87	0.56
1:X:289:PRO:HG3	1:X:397:CYS:SG	2.45	0.56
1:Z:285:TRP:HD1	1:4:316:MET:HE1	1.71	0.56
1:d:268:LEU:HD13	1:l:317:GLY:HA3	1.88	0.56
1:h:155:GLN:HG2	1:h:224:MET:HG2	1.87	0.56
1:p:155:GLN:HG2	1:p:224:MET:HG2	1.87	0.56
1:q:290:VAL:HG11	1:q:379:GLN:HA	1.88	0.56
1:u:100:GLN:HA	1:u:413:PRO:HA	1.87	0.56
1:v:290:VAL:HG11	1:v:379:GLN:HA	1.87	0.56
1:x:268:LEU:N	1:x:280:SER:O	2.38	0.56
1:y:328:GLU:OE1	1:y:328:GLU:N	2.26	0.56
1:z:285:TRP:HD1	1:1:316:MET:HE1	1.70	0.56
1:z:292:ASN:ND2	1:2:383:ALA:O	2.38	0.56
1:z:383:ALA:O	1:1:292:ASN:ND2	2.38	0.56
1:1:269:ARG:NH1	1:2:301:ALA:HB3	2.20	0.56
1:2:268:LEU:N	1:2:280:SER:O	2.38	0.56
1:3:268:LEU:N	1:3:280:SER:O	2.38	0.56
1:A:277:HIS:HE1	1:G:77:VAL:O	1.88	0.56
1:B:316:MET:HE1	1:L:285:TRP:HD1	1.70	0.56
1:C:268:LEU:HD13	1:b:317:GLY:HA3	1.87	0.56
1:D:285:TRP:HD1	1:N:316:MET:HE1	1.70	0.56
1:I:100:GLN:HA	1:I:413:PRO:HA	1.87	0.56
1:K:383:ALA:O	1:a:292:ASN:ND2	2.38	0.56
1:Q:155:GLN:HG2	1:Q:224:MET:HG2	1.87	0.56
1:R:317:GLY:HA3	1:U:268:LEU:HD13	1.87	0.56
1:R:383:ALA:O	1:S:292:ASN:ND2	2.38	0.56
1:S:58:CYS:HB3	1:S:463:SER:OG	2.06	0.56
1:S:165:PRO:O	1:S:189:TYR:OH	2.20	0.56
1:T:317:GLY:HA3	1:l:268:LEU:HD13	1.87	0.56
1:V:58:CYS:HB3	1:V:463:SER:OG	2.06	0.56
1:V:155:GLN:HG2	1:V:224:MET:HG2	1.87	0.56
1:X:58:CYS:HB3	1:X:463:SER:OG	2.06	0.56
1:Y:100:GLN:HA	1:Y:413:PRO:HA	1.88	0.56
1:Z:301:ALA:HB3	1:3:269:ARG:NH1	2.21	0.56
1:a:269:ARG:NH1	1:8:301:ALA:HB3	2.21	0.56
1:b:290:VAL:HG11	1:b:379:GLN:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:290:VAL:HG11	1:h:379:GLN:HA	1.87	0.56
1:i:292:ASN:ND2	1:k:383:ALA:O	2.38	0.56
1:m:285:TRP:HD1	1:n:316:MET:HE1	1.70	0.56
1:o:58:CYS:HB3	1:o:463:SER:OG	2.06	0.56
1:o:155:GLN:HG2	1:o:224:MET:HG2	1.87	0.56
1:p:58:CYS:HB3	1:p:463:SER:OG	2.06	0.56
1:q:155:GLN:HG2	1:q:224:MET:HG2	1.87	0.56
1:r:58:CYS:HB3	1:r:463:SER:OG	2.06	0.56
1:r:100:GLN:HA	1:r:413:PRO:HA	1.87	0.56
1:u:155:GLN:HG2	1:u:224:MET:HG2	1.87	0.56
1:v:165:PRO:O	1:v:189:TYR:OH	2.20	0.56
1:z:268:LEU:N	1:z:280:SER:O	2.38	0.56
1:3:316:MET:HE1	1:4:285:TRP:HD1	1.70	0.56
1:5:269:ARG:NH1	1:6:301:ALA:HB3	2.20	0.56
1:7:100:GLN:HA	1:7:413:PRO:HA	1.88	0.56
1:A:290:VAL:HG11	1:A:379:GLN:HA	1.88	0.56
1:B:267:ASP:OD1	1:B:271:ASN:N	2.27	0.56
1:C:285:TRP:HD1	1:b:316:MET:HE1	1.70	0.56
1:F:298:ALA:O	1:Q:269:ARG:CZ	2.54	0.56
1:G:383:ALA:O	1:I:292:ASN:ND2	2.38	0.56
1:H:269:ARG:NH1	1:W:301:ALA:HB3	2.20	0.56
1:J:268:LEU:N	1:J:280:SER:O	2.38	0.56
1:K:285:TRP:HD1	1:a:316:MET:HE1	1.70	0.56
1:O:328:GLU:HG3	1:O:331:LYS:CG	2.36	0.56
1:Q:268:LEU:N	1:Q:280:SER:O	2.38	0.56
1:T:285:TRP:HZ3	1:d:416:GLN:NE2	2.04	0.56
1:U:328:GLU:HG3	1:U:331:LYS:CG	2.36	0.56
1:V:328:GLU:HG3	1:V:331:LYS:CG	2.36	0.56
1:X:165:PRO:O	1:X:189:TYR:OH	2.20	0.56
1:Y:39:CYS:HB3	1:4:219:GLU:HA	1.84	0.56
1:Y:58:CYS:HB3	1:Y:463:SER:OG	2.06	0.56
1:Y:268:LEU:N	1:Y:280:SER:O	2.38	0.56
1:a:268:LEU:N	1:a:280:SER:O	2.38	0.56
1:f:290:VAL:HG11	1:f:379:GLN:HA	1.87	0.56
1:f:316:MET:HE1	1:g:285:TRP:HD1	1.70	0.56
1:f:317:GLY:HA3	1:g:268:LEU:HD13	1.87	0.56
1:g:268:LEU:N	1:g:280:SER:O	2.38	0.56
1:g:290:VAL:HG11	1:g:379:GLN:HA	1.88	0.56
1:i:316:MET:HE1	1:k:285:TRP:HD1	1.70	0.56
1:l:328:GLU:HG3	1:l:331:LYS:CG	2.36	0.56
1:p:328:GLU:HG3	1:p:331:LYS:CG	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:383:ALA:O	1:r:292:ASN:ND2	2.38	0.56
1:r:165:PRO:O	1:r:189:TYR:OH	2.20	0.56
1:s:328:GLU:HG3	1:s:331:LYS:CG	2.36	0.56
1:t:339:TRP:CH2	1:v:272:ASP:HB2	2.41	0.56
1:x:155:GLN:HG2	1:x:224:MET:HG2	1.87	0.56
1:x:269:ARG:CZ	1:y:298:ALA:O	2.54	0.56
1:2:238:ASP:O	1:2:241:THR:OG1	2.21	0.56
1:3:100:GLN:HA	1:3:413:PRO:HA	1.87	0.56
1:5:285:TRP:HD1	1:6:316:MET:HE1	1.71	0.56
1:6:269:ARG:NH1	1:7:301:ALA:HB3	2.20	0.56
1:6:383:ALA:O	1:7:292:ASN:ND2	2.38	0.56
1:B:298:ALA:O	1:L:269:ARG:CZ	2.54	0.56
1:C:268:LEU:N	1:C:280:SER:O	2.38	0.56
1:C:290:VAL:HG11	1:C:379:GLN:HA	1.88	0.56
1:D:219:GLU:HA	1:E:39:CYS:HB3	1.84	0.56
1:E:285:TRP:HD1	1:Q:316:MET:HE1	1.70	0.56
1:E:290:VAL:HG11	1:E:379:GLN:HA	1.88	0.56
1:E:302:ASN:O	1:E:305:THR:OG1	2.08	0.56
1:E:324:ILE:HD11	1:E:334:TYR:CD1	2.41	0.56
1:G:285:TRP:HZ3	1:I:416:GLN:NE2	2.05	0.56
1:H:58:CYS:HB3	1:H:463:SER:OG	2.06	0.56
1:H:285:TRP:HD1	1:W:316:MET:HE1	1.71	0.56
1:H:324:ILE:HD11	1:H:334:TYR:CD1	2.41	0.56
1:J:238:ASP:O	1:J:241:THR:OG1	2.21	0.56
1:K:100:GLN:HA	1:K:413:PRO:HA	1.87	0.56
1:K:268:LEU:HD13	1:a:317:GLY:HA3	1.87	0.56
1:K:301:ALA:HB3	1:8:269:ARG:NH1	2.21	0.56
1:M:290:VAL:HG11	1:M:379:GLN:HA	1.88	0.56
1:M:324:ILE:HD11	1:M:334:TYR:CD1	2.41	0.56
1:N:58:CYS:HB3	1:N:463:SER:OG	2.06	0.56
1:O:268:LEU:HD13	1:m:317:GLY:HA3	1.87	0.56
1:O:298:ALA:O	1:n:269:ARG:CZ	2.54	0.56
1:R:65:MET:HE3	1:R:67:LYS:HE2	1.87	0.56
1:R:285:TRP:HZ3	1:S:416:GLN:NE2	2.04	0.56
1:R:416:GLN:NE2	1:U:285:TRP:HZ3	2.04	0.56
1:S:324:ILE:HD11	1:S:334:TYR:CD1	2.41	0.56
1:V:290:VAL:HG11	1:V:379:GLN:HA	1.88	0.56
1:Z:269:ARG:NH1	1:4:301:ALA:HB3	2.21	0.56
1:a:100:GLN:HA	1:a:413:PRO:HA	1.87	0.56
1:a:324:ILE:HD11	1:a:334:TYR:CD1	2.41	0.56
1:b:58:CYS:HB3	1:b:463:SER:OG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:71:ASN:OD1	1:b:82:ASN:HB3	2.07	0.56
1:c:324:ILE:HD11	1:c:334:TYR:CD1	2.41	0.56
1:d:269:ARG:CZ	1:l:298:ALA:O	2.54	0.56
1:g:65:MET:HE3	1:g:67:LYS:HE2	1.87	0.56
1:g:286:LEU:HD13	1:g:398:ILE:HD11	1.85	0.56
1:h:58:CYS:HB3	1:h:463:SER:OG	2.06	0.56
1:j:285:TRP:HZ3	1:k:416:GLN:NE2	2.04	0.56
1:m:285:TRP:HZ3	1:n:416:GLN:NE2	2.04	0.56
1:o:65:MET:HE3	1:o:67:LYS:HE2	1.87	0.56
1:p:290:VAL:HG11	1:p:379:GLN:HA	1.88	0.56
1:q:285:TRP:HZ3	1:r:416:GLN:NE2	2.04	0.56
1:q:416:GLN:NE2	1:s:285:TRP:HZ3	2.04	0.56
1:r:324:ILE:HD11	1:r:334:TYR:CD1	2.41	0.56
1:t:272:ASP:HB2	1:u:339:TRP:CH2	2.41	0.56
1:t:316:MET:HE1	1:v:285:TRP:HD1	1.70	0.56
1:u:165:PRO:O	1:u:189:TYR:OH	2.20	0.56
1:w:290:VAL:HG11	1:w:379:GLN:HA	1.88	0.56
1:w:324:ILE:HD11	1:w:334:TYR:CD1	2.41	0.56
1:z:269:ARG:CZ	1:1:298:ALA:O	2.54	0.56
1:1:268:LEU:HD13	1:2:317:GLY:HA3	1.87	0.56
1:1:328:GLU:OE1	1:1:328:GLU:N	2.26	0.56
1:3:317:GLY:HA3	1:4:268:LEU:HD13	1.87	0.56
1:3:324:ILE:HD11	1:3:334:TYR:CD1	2.41	0.56
1:4:100:GLN:HA	1:4:413:PRO:HA	1.88	0.56
1:7:58:CYS:HB3	1:7:463:SER:OG	2.06	0.56
1:7:268:LEU:N	1:7:280:SER:O	2.38	0.56
1:8:58:CYS:HB3	1:8:463:SER:OG	2.06	0.56
1:8:268:LEU:N	1:8:280:SER:O	2.38	0.56
1:A:324:ILE:HD11	1:A:334:TYR:CD1	2.41	0.55
1:C:100:GLN:HA	1:C:413:PRO:HA	1.87	0.55
1:D:292:ASN:ND2	1:P:383:ALA:O	2.38	0.55
1:H:285:TRP:HZ3	1:W:416:GLN:NE2	2.04	0.55
1:O:71:ASN:OD1	1:O:82:ASN:HB3	2.07	0.55
1:O:324:ILE:HD11	1:O:334:TYR:CD1	2.41	0.55
1:P:267:ASP:OD1	1:P:271:ASN:N	2.27	0.55
1:S:290:VAL:HG11	1:S:379:GLN:HA	1.87	0.55
1:T:285:TRP:HD1	1:d:316:MET:HE1	1.70	0.55
1:W:100:GLN:HA	1:W:413:PRO:HA	1.88	0.55
1:W:285:TRP:HZ3	1:Y:416:GLN:NE2	2.04	0.55
1:X:316:MET:HE1	1:e:285:TRP:HD1	1.71	0.55
1:Z:58:CYS:HB3	1:Z:463:SER:OG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:58:CYS:HB3	1:a:463:SER:OG	2.06	0.55
1:c:285:TRP:HD1	1:o:316:MET:HE1	1.71	0.55
1:d:324:ILE:HD11	1:d:334:TYR:CD1	2.41	0.55
1:d:377:ARG:HD2	1:l:312:GLY:O	2.06	0.55
1:e:324:ILE:HD11	1:e:334:TYR:CD1	2.41	0.55
1:f:58:CYS:HB3	1:f:463:SER:OG	2.06	0.55
1:f:71:ASN:OD1	1:f:82:ASN:HB3	2.07	0.55
1:g:100:GLN:HA	1:g:413:PRO:HA	1.87	0.55
1:g:312:GLY:O	1:h:377:ARG:HD2	2.06	0.55
1:g:416:GLN:NE2	1:h:285:TRP:HZ3	2.04	0.55
1:h:324:ILE:HD11	1:h:334:TYR:CD1	2.41	0.55
1:i:58:CYS:HB3	1:i:463:SER:OG	2.06	0.55
1:i:285:TRP:HD1	1:j:316:MET:HE1	1.71	0.55
1:j:58:CYS:HB3	1:j:463:SER:OG	2.06	0.55
1:j:155:GLN:HG2	1:j:224:MET:HG2	1.87	0.55
1:j:383:ALA:O	1:k:292:ASN:ND2	2.38	0.55
1:k:219:GLU:HA	1:w:39:CYS:HB3	1.84	0.55
1:n:324:ILE:HD11	1:n:334:TYR:CD1	2.41	0.55
1:o:165:PRO:O	1:o:189:TYR:OH	2.20	0.55
1:q:58:CYS:HB3	1:q:463:SER:OG	2.06	0.55
1:q:317:GLY:HA3	1:s:268:LEU:HD13	1.87	0.55
1:t:66:TYR:O	1:y:507:GLY:HA2	2.07	0.55
1:w:100:GLN:HA	1:w:413:PRO:HA	1.87	0.55
1:z:268:LEU:HD13	1:1:317:GLY:HA3	1.87	0.55
1:3:58:CYS:HB3	1:3:463:SER:OG	2.06	0.55
1:4:58:CYS:HB3	1:4:463:SER:OG	2.06	0.55
1:5:58:CYS:HB3	1:5:463:SER:OG	2.06	0.55
1:5:285:TRP:HZ3	1:6:416:GLN:NE2	2.04	0.55
1:5:324:ILE:HD11	1:5:334:TYR:CD1	2.41	0.55
1:6:285:TRP:HZ3	1:7:416:GLN:NE2	2.04	0.55
1:7:328:GLU:HG3	1:7:331:LYS:CG	2.36	0.55
1:8:286:LEU:HD13	1:8:398:ILE:HD11	1.85	0.55
1:A:65:MET:HE3	1:A:67:LYS:HE2	1.87	0.55
1:A:71:ASN:OD1	1:A:82:ASN:HB3	2.07	0.55
1:C:416:GLN:NE2	1:M:285:TRP:HZ3	2.05	0.55
1:D:71:ASN:OD1	1:D:82:ASN:HB3	2.07	0.55
1:D:416:GLN:NE2	1:P:285:TRP:HZ3	2.04	0.55
1:F:416:GLN:NE2	1:Q:285:TRP:HZ3	2.04	0.55
1:G:324:ILE:HD11	1:G:334:TYR:CD1	2.41	0.55
1:H:290:VAL:HG11	1:H:379:GLN:HA	1.88	0.55
1:K:58:CYS:HB3	1:K:463:SER:OG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:324:ILE:HD11	1:K:334:TYR:CD1	2.41	0.55
1:M:58:CYS:HB3	1:M:463:SER:OG	2.06	0.55
1:N:290:VAL:HG11	1:N:379:GLN:HA	1.87	0.55
1:O:302:ASN:O	1:O:305:THR:OG1	2.08	0.55
1:O:312:GLY:O	1:n:377:ARG:HD2	2.06	0.55
1:P:58:CYS:HB3	1:P:463:SER:OG	2.06	0.55
1:P:71:ASN:OD1	1:P:82:ASN:HB3	2.07	0.55
1:P:155:GLN:HG2	1:P:224:MET:HG2	1.87	0.55
1:R:58:CYS:HB3	1:R:463:SER:OG	2.06	0.55
1:W:165:PRO:O	1:W:189:TYR:OH	2.20	0.55
1:W:324:ILE:HD11	1:W:334:TYR:CD1	2.41	0.55
1:Y:165:PRO:O	1:Y:189:TYR:OH	2.20	0.55
1:Y:328:GLU:HG3	1:Y:331:LYS:CG	2.36	0.55
1:Z:268:LEU:N	1:Z:280:SER:O	2.38	0.55
1:Z:298:ALA:O	1:3:269:ARG:CZ	2.54	0.55
1:a:285:TRP:HZ3	1:8:416:GLN:NE2	2.05	0.55
1:j:71:ASN:OD1	1:j:82:ASN:HB3	2.07	0.55
1:k:71:ASN:OD1	1:k:82:ASN:HB3	2.07	0.55
1:l:324:ILE:HD11	1:l:334:TYR:CD1	2.41	0.55
1:m:155:GLN:HG2	1:m:224:MET:HG2	1.87	0.55
1:q:65:MET:HE3	1:q:67:LYS:HE2	1.87	0.55
1:r:290:VAL:HG11	1:r:379:GLN:HA	1.87	0.55
1:t:269:ARG:NH1	1:u:301:ALA:HB3	2.21	0.55
1:t:298:ALA:O	1:v:269:ARG:CZ	2.54	0.55
1:v:324:ILE:HD11	1:v:334:TYR:CD1	2.41	0.55
1:w:285:TRP:HD1	1:x:316:MET:HE1	1.70	0.55
1:x:71:ASN:OD1	1:x:82:ASN:HB3	2.07	0.55
1:x:285:TRP:HZ3	1:y:416:GLN:NE2	2.04	0.55
1:y:58:CYS:HB3	1:y:463:SER:OG	2.06	0.55
1:y:328:GLU:HG3	1:y:331:LYS:CG	2.36	0.55
1:z:290:VAL:HG11	1:z:379:GLN:HA	1.87	0.55
1:4:324:ILE:HD11	1:4:334:TYR:CD1	2.41	0.55
1:5:290:VAL:HG11	1:5:379:GLN:HA	1.88	0.55
1:6:100:GLN:HA	1:6:413:PRO:HA	1.88	0.55
1:7:165:PRO:O	1:7:189:TYR:OH	2.20	0.55
1:B:317:GLY:HA3	1:L:268:LEU:HD13	1.87	0.55
1:C:65:MET:HE3	1:C:67:LYS:HE2	1.87	0.55
1:C:286:LEU:HD13	1:C:398:ILE:HD11	1.85	0.55
1:C:312:GLY:O	1:M:377:ARG:HD2	2.07	0.55
1:E:100:GLN:HA	1:E:413:PRO:HA	1.87	0.55
1:E:155:GLN:HG2	1:E:224:MET:HG2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:58:CYS:HB3	1:F:463:SER:OG	2.06	0.55
1:F:100:GLN:HA	1:F:413:PRO:HA	1.88	0.55
1:F:312:GLY:O	1:Q:377:ARG:HD2	2.07	0.55
1:F:328:GLU:HG3	1:F:331:LYS:CG	2.36	0.55
1:G:58:CYS:HB3	1:G:463:SER:OG	2.06	0.55
1:H:238:ASP:O	1:H:241:THR:OG1	2.21	0.55
1:H:328:GLU:HG3	1:H:331:LYS:CG	2.36	0.55
1:J:377:ARG:HD2	1:L:312:GLY:O	2.07	0.55
1:K:290:VAL:HG11	1:K:379:GLN:HA	1.87	0.55
1:L:290:VAL:HG11	1:L:379:GLN:HA	1.87	0.55
1:M:65:MET:HE3	1:M:67:LYS:HE2	1.87	0.55
1:M:100:GLN:HA	1:M:413:PRO:HA	1.87	0.55
1:N:328:GLU:HG3	1:N:331:LYS:CG	2.36	0.55
1:P:100:GLN:HA	1:P:413:PRO:HA	1.88	0.55
1:P:324:ILE:HD11	1:P:334:TYR:CD1	2.41	0.55
1:Q:39:CYS:HB3	1:S:219:GLU:HA	1.84	0.55
1:Q:71:ASN:OD1	1:Q:82:ASN:HB3	2.07	0.55
1:R:292:ASN:ND2	1:U:383:ALA:O	2.38	0.55
1:S:71:ASN:OD1	1:S:82:ASN:HB3	2.07	0.55
1:T:316:MET:HE1	1:l:285:TRP:HD1	1.71	0.55
1:V:285:TRP:HD1	1:e:316:MET:HE1	1.70	0.55
1:Z:155:GLN:HG2	1:Z:224:MET:HG2	1.87	0.55
1:Z:286:LEU:HD13	1:Z:398:ILE:HD11	1.85	0.55
1:Z:416:GLN:NE2	1:3:285:TRP:HZ3	2.05	0.55
1:a:269:ARG:CZ	1:8:298:ALA:O	2.55	0.55
1:h:100:GLN:HA	1:h:413:PRO:HA	1.88	0.55
1:i:290:VAL:HG11	1:i:379:GLN:HA	1.87	0.55
1:l:71:ASN:OD1	1:l:82:ASN:HB3	2.07	0.55
1:m:290:VAL:HG11	1:m:379:GLN:HA	1.87	0.55
1:q:292:ASN:ND2	1:s:383:ALA:O	2.38	0.55
1:r:71:ASN:OD1	1:r:82:ASN:HB3	2.07	0.55
1:t:71:ASN:OD1	1:t:82:ASN:HB3	2.07	0.55
1:t:324:ILE:HD11	1:t:334:TYR:CD1	2.41	0.55
1:v:65:MET:HE3	1:v:67:LYS:HE2	1.87	0.55
1:v:71:ASN:OD1	1:v:82:ASN:HB3	2.07	0.55
1:w:155:GLN:HG2	1:w:224:MET:HG2	1.87	0.55
1:w:416:GLN:NE2	1:y:285:TRP:HZ3	2.04	0.55
1:y:100:GLN:HA	1:y:413:PRO:HA	1.88	0.55
1:z:312:GLY:O	1:2:377:ARG:HD2	2.07	0.55
1:4:290:VAL:HG11	1:4:379:GLN:HA	1.87	0.55
1:5:317:GLY:HA3	1:7:268:LEU:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:324:ILE:HD11	1:6:334:TYR:CD1	2.41	0.55
1:7:65:MET:HE3	1:7:67:LYS:HE2	1.87	0.55
1:A:416:GLN:NE2	1:I:285:TRP:HZ3	2.04	0.55
1:B:100:GLN:HA	1:B:413:PRO:HA	1.88	0.55
1:B:324:ILE:HD11	1:B:334:TYR:CD1	2.42	0.55
1:C:377:ARG:HD2	1:b:312:GLY:O	2.06	0.55
1:D:155:GLN:HG2	1:D:224:MET:HG2	1.87	0.55
1:E:416:GLN:NE2	1:F:285:TRP:HZ3	2.04	0.55
1:G:71:ASN:OD1	1:G:82:ASN:HB3	2.07	0.55
1:H:377:ARG:HD2	1:W:312:GLY:O	2.07	0.55
1:K:285:TRP:HZ3	1:a:416:GLN:NE2	2.04	0.55
1:K:317:GLY:HA3	1:8:268:LEU:HD13	1.86	0.55
1:R:324:ILE:HD11	1:R:334:TYR:CD1	2.41	0.55
1:S:65:MET:HE3	1:S:67:LYS:HE2	1.87	0.55
1:T:290:VAL:HG11	1:T:379:GLN:HA	1.88	0.55
1:U:324:ILE:HD11	1:U:334:TYR:CD1	2.41	0.55
1:W:377:ARG:HD2	1:Y:312:GLY:O	2.07	0.55
1:Y:65:MET:HE3	1:Y:67:LYS:HE2	1.87	0.55
1:Y:324:ILE:HD11	1:Y:334:TYR:CD1	2.41	0.55
1:Z:268:LEU:HD13	1:4:317:GLY:HA3	1.86	0.55
1:c:100:GLN:HA	1:c:413:PRO:HA	1.88	0.55
1:c:316:MET:HE1	1:p:285:TRP:HD1	1.70	0.55
1:d:71:ASN:OD1	1:d:82:ASN:HB3	2.07	0.55
1:d:310:ASP:OD1	1:d:315:TYR:HD1	1.87	0.55
1:e:58:CYS:HB3	1:e:463:SER:OG	2.06	0.55
1:e:100:GLN:HA	1:e:413:PRO:HA	1.88	0.55
1:f:312:GLY:O	1:g:377:ARG:HD2	2.06	0.55
1:h:65:MET:HE3	1:h:67:LYS:HE2	1.87	0.55
1:h:71:ASN:OD1	1:h:82:ASN:HB3	2.07	0.55
1:i:298:ALA:O	1:k:269:ARG:CZ	2.54	0.55
1:i:328:GLU:HG3	1:i:331:LYS:CG	2.36	0.55
1:j:100:GLN:HA	1:j:413:PRO:HA	1.87	0.55
1:j:324:ILE:HD11	1:j:334:TYR:CD1	2.41	0.55
1:k:155:GLN:HG2	1:k:224:MET:HG2	1.87	0.55
1:m:269:ARG:CZ	1:n:298:ALA:O	2.54	0.55
1:n:71:ASN:OD1	1:n:82:ASN:HB3	2.07	0.55
1:n:268:LEU:N	1:n:280:SER:O	2.38	0.55
1:p:286:LEU:HD13	1:p:398:ILE:HD11	1.85	0.55
1:s:58:CYS:HB3	1:s:463:SER:OG	2.06	0.55
1:t:58:CYS:HB3	1:t:463:SER:OG	2.06	0.55
1:x:100:GLN:HA	1:x:413:PRO:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:377:ARG:HD2	1:y:312:GLY:O	2.07	0.55
1:y:71:ASN:OD1	1:y:82:ASN:HB3	2.07	0.55
1:z:328:GLU:HG3	1:z:331:LYS:CG	2.36	0.55
1:1:100:GLN:HA	1:1:413:PRO:HA	1.87	0.55
1:1:267:ASP:OD1	1:1:271:ASN:N	2.27	0.55
1:1:324:ILE:HD11	1:1:334:TYR:CD1	2.41	0.55
1:2:71:ASN:OD1	1:2:82:ASN:HB3	2.07	0.55
1:3:416:GLN:NE2	1:4:285:TRP:HZ3	2.04	0.55
1:5:238:ASP:O	1:5:241:THR:OG1	2.21	0.55
1:5:328:GLU:HG3	1:5:331:LYS:CG	2.36	0.55
1:6:165:PRO:O	1:6:189:TYR:OH	2.20	0.55
1:6:269:ARG:CZ	1:7:298:ALA:O	2.55	0.55
1:6:377:ARG:HD2	1:7:312:GLY:O	2.07	0.55
1:8:155:GLN:HG2	1:8:224:MET:HG2	1.87	0.55
1:C:328:GLU:HG3	1:C:331:LYS:CG	2.36	0.55
1:D:269:ARG:CZ	1:N:298:ALA:O	2.55	0.55
1:E:269:ARG:CZ	1:Q:298:ALA:O	2.55	0.55
1:H:316:MET:HE1	1:Y:285:TRP:HD1	1.71	0.55
1:H:317:GLY:HA3	1:Y:268:LEU:HD13	1.87	0.55
1:J:71:ASN:OD1	1:J:82:ASN:HB3	2.07	0.55
1:J:155:GLN:HG2	1:J:224:MET:HG2	1.87	0.55
1:K:268:LEU:N	1:K:280:SER:O	2.38	0.55
1:K:377:ARG:HD2	1:a:312:GLY:O	2.07	0.55
1:L:324:ILE:HD11	1:L:334:TYR:CD1	2.41	0.55
1:N:155:GLN:HG2	1:N:224:MET:HG2	1.87	0.55
1:O:285:TRP:HD1	1:m:316:MET:HE1	1.71	0.55
1:Q:100:GLN:HA	1:Q:413:PRO:HA	1.87	0.55
1:R:64:ASP:OD1	1:R:446:LYS:NZ	2.38	0.55
1:R:312:GLY:O	1:U:377:ARG:HD2	2.07	0.55
1:T:155:GLN:HG2	1:T:224:MET:HG2	1.87	0.55
1:T:269:ARG:CZ	1:d:298:ALA:O	2.54	0.55
1:U:58:CYS:HB3	1:U:463:SER:OG	2.06	0.55
1:V:298:ALA:O	1:X:269:ARG:CZ	2.54	0.55
1:W:269:ARG:CZ	1:Y:298:ALA:O	2.55	0.55
1:X:324:ILE:HD11	1:X:334:TYR:CD1	2.41	0.55
1:X:328:GLU:HG3	1:X:331:LYS:CG	2.36	0.55
1:d:268:LEU:N	1:d:280:SER:O	2.38	0.55
1:f:416:GLN:NE2	1:g:285:TRP:HZ3	2.04	0.55
1:g:316:MET:HE1	1:h:285:TRP:HD1	1.70	0.55
1:i:155:GLN:HG2	1:i:224:MET:HG2	1.87	0.55
1:j:267:ASP:OD1	1:j:271:ASN:N	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:328:GLU:HG3	1:k:331:LYS:CG	2.36	0.55
1:o:324:ILE:HD11	1:o:334:TYR:CD1	2.41	0.55
1:p:71:ASN:OD1	1:p:82:ASN:HB3	2.07	0.55
1:q:324:ILE:HD11	1:q:334:TYR:CD1	2.41	0.55
1:r:65:MET:HE3	1:r:67:LYS:HE2	1.87	0.55
1:r:269:ARG:CZ	1:s:298:ALA:O	2.54	0.55
1:s:324:ILE:HD11	1:s:334:TYR:CD1	2.41	0.55
1:w:292:ASN:ND2	1:y:383:ALA:O	2.38	0.55
1:1:269:ARG:CZ	1:2:298:ALA:O	2.55	0.55
1:1:285:TRP:HZ3	1:2:416:GLN:NE2	2.04	0.55
1:4:268:LEU:N	1:4:280:SER:O	2.38	0.55
1:5:377:ARG:HD2	1:6:312:GLY:O	2.07	0.55
1:7:324:ILE:HD11	1:7:334:TYR:CD1	2.41	0.55
1:B:269:ARG:CZ	1:J:298:ALA:O	2.55	0.55
1:B:285:TRP:HZ3	1:J:416:GLN:NE2	2.04	0.55
1:C:285:TRP:HZ3	1:b:416:GLN:NE2	2.04	0.55
1:C:316:MET:HE1	1:M:285:TRP:HD1	1.70	0.55
1:E:238:ASP:O	1:E:241:THR:OG1	2.21	0.55
1:F:71:ASN:OD1	1:F:82:ASN:HB3	2.07	0.55
1:H:165:PRO:O	1:H:189:TYR:OH	2.20	0.55
1:I:268:LEU:N	1:I:280:SER:O	2.38	0.55
1:I:324:ILE:HD11	1:I:334:TYR:CD1	2.41	0.55
1:I:328:GLU:HG3	1:I:331:LYS:CG	2.36	0.55
1:L:328:GLU:HG3	1:L:331:LYS:CG	2.36	0.55
1:M:298:ALA:O	1:b:269:ARG:CZ	2.55	0.55
1:O:58:CYS:HB3	1:O:463:SER:OG	2.06	0.55
1:Q:58:CYS:HB3	1:Q:463:SER:OG	2.06	0.55
1:S:269:ARG:CZ	1:U:298:ALA:O	2.54	0.55
1:S:285:TRP:HZ3	1:U:416:GLN:NE2	2.04	0.55
1:S:377:ARG:HD2	1:U:312:GLY:O	2.07	0.55
1:V:71:ASN:OD1	1:V:82:ASN:HB3	2.07	0.55
1:V:317:GLY:HA3	1:X:268:LEU:HD13	1.87	0.55
1:Z:65:MET:HE3	1:Z:67:LYS:HE2	1.87	0.55
1:Z:324:ILE:HD11	1:Z:334:TYR:CD1	2.41	0.55
1:c:29:GLY:N	1:c:32:GLU:OE2	2.39	0.55
1:c:58:CYS:HB3	1:c:463:SER:OG	2.06	0.55
1:c:269:ARG:CZ	1:o:298:ALA:O	2.55	0.55
1:c:328:GLU:HG3	1:c:331:LYS:CG	2.36	0.55
1:f:269:ARG:CZ	1:h:298:ALA:O	2.55	0.55
1:g:267:ASP:OD1	1:g:271:ASN:N	2.27	0.55
1:g:298:ALA:O	1:h:269:ARG:CZ	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:328:GLU:HG3	1:g:331:LYS:CG	2.36	0.55
1:n:310:ASP:OD1	1:n:315:TYR:HD1	1.87	0.55
1:n:328:GLU:HG3	1:n:331:LYS:CG	2.36	0.55
1:o:100:GLN:HA	1:o:413:PRO:HA	1.87	0.55
1:o:269:ARG:CZ	1:p:298:ALA:O	2.55	0.55
1:r:219:GLU:HA	1:x:39:CYS:HB3	1.84	0.55
1:t:285:TRP:HD1	1:u:316:MET:HE1	1.72	0.55
1:u:268:LEU:N	1:u:280:SER:O	2.38	0.55
1:u:285:TRP:HZ3	1:v:416:GLN:NE2	2.04	0.55
1:u:324:ILE:HD11	1:u:334:TYR:CD1	2.41	0.55
1:w:71:ASN:OD1	1:w:82:ASN:HB3	2.07	0.55
1:w:269:ARG:CZ	1:x:298:ALA:O	2.54	0.55
1:x:58:CYS:HB3	1:x:463:SER:OG	2.06	0.55
1:z:324:ILE:HD11	1:z:334:TYR:CD1	2.41	0.55
1:1:238:ASP:O	1:1:241:THR:OG1	2.21	0.55
1:3:312:GLY:O	1:4:377:ARG:HD2	2.07	0.55
1:8:65:MET:HE3	1:8:67:LYS:HE2	1.87	0.55
1:B:238:ASP:O	1:B:241:THR:OG1	2.21	0.55
1:C:298:ALA:O	1:M:269:ARG:CZ	2.54	0.55
1:D:58:CYS:HB3	1:D:463:SER:OG	2.06	0.55
1:D:298:ALA:O	1:P:269:ARG:CZ	2.55	0.55
1:D:328:GLU:HG3	1:D:331:LYS:CG	2.36	0.55
1:E:71:ASN:OD1	1:E:82:ASN:HB3	2.07	0.55
1:E:292:ASN:ND2	1:F:383:ALA:O	2.38	0.55
1:G:165:PRO:O	1:G:189:TYR:OH	2.20	0.55
1:G:269:ARG:CZ	1:I:298:ALA:O	2.55	0.55
1:I:58:CYS:HB3	1:I:463:SER:OG	2.06	0.55
1:J:58:CYS:HB3	1:J:463:SER:OG	2.06	0.55
1:K:328:GLU:HG3	1:K:331:LYS:CG	2.36	0.55
1:K:507:GLY:HA2	1:L:66:TYR:O	2.07	0.55
1:M:71:ASN:OD1	1:M:82:ASN:HB3	2.07	0.55
1:M:507:GLY:HA2	1:N:66:TYR:O	2.07	0.55
1:Q:274:LEU:HD13	1:Q:274:LEU:N	2.22	0.55
1:Q:324:ILE:HD11	1:Q:334:TYR:CD1	2.41	0.55
1:S:328:GLU:HG3	1:S:331:LYS:CG	2.36	0.55
1:T:298:ALA:O	1:l:269:ARG:CZ	2.55	0.55
1:U:327:ALA:CB	1:U:377:ARG:NH2	2.70	0.55
1:V:286:LEU:HD13	1:V:398:ILE:HD11	1.85	0.55
1:V:377:ARG:HD2	1:e:312:GLY:O	2.06	0.55
1:X:100:GLN:HA	1:X:413:PRO:HA	1.87	0.55
1:X:298:ALA:O	1:e:269:ARG:CZ	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:238:ASP:O	1:Y:241:THR:OG1	2.21	0.55
1:Z:290:VAL:HG11	1:Z:379:GLN:HA	1.88	0.55
1:d:269:ARG:NH1	1:l:301:ALA:HB3	2.21	0.55
1:d:290:VAL:HG11	1:d:379:GLN:HA	1.87	0.55
1:d:328:GLU:HG3	1:d:331:LYS:CG	2.36	0.55
1:e:29:GLY:N	1:e:32:GLU:OE2	2.39	0.55
1:e:328:GLU:HG3	1:e:331:LYS:CG	2.36	0.55
1:i:65:MET:HE3	1:i:67:LYS:HE2	1.87	0.55
1:i:274:LEU:N	1:i:274:LEU:HD13	2.22	0.55
1:i:312:GLY:O	1:k:377:ARG:HD2	2.07	0.55
1:i:324:ILE:HD11	1:i:334:TYR:CD1	2.41	0.55
1:j:269:ARG:CZ	1:k:298:ALA:O	2.55	0.55
1:n:290:VAL:HG11	1:n:379:GLN:HA	1.87	0.55
1:o:328:GLU:HG3	1:o:331:LYS:CG	2.36	0.55
1:q:285:TRP:HD1	1:r:316:MET:HE1	1.71	0.55
1:q:312:GLY:O	1:s:377:ARG:HD2	2.07	0.55
1:r:286:LEU:HD13	1:r:398:ILE:HD11	1.85	0.55
1:r:377:ARG:HD2	1:s:312:GLY:O	2.07	0.55
1:s:327:ALA:CB	1:s:377:ARG:NH2	2.70	0.55
1:w:317:GLY:HA3	1:y:268:LEU:HD13	1.87	0.55
1:x:274:LEU:N	1:x:274:LEU:HD13	2.22	0.55
1:x:328:GLU:HG3	1:x:331:LYS:CG	2.36	0.55
1:y:74:ASN:HB2	1:y:85:ALA:HB2	1.89	0.55
1:z:58:CYS:HB3	1:z:463:SER:OG	2.06	0.55
1:z:267:ASP:OD1	1:z:271:ASN:N	2.27	0.55
1:2:58:CYS:HB3	1:2:463:SER:OG	2.06	0.55
1:2:155:GLN:HG2	1:2:224:MET:HG2	1.87	0.55
1:5:416:GLN:NE2	1:7:285:TRP:HZ3	2.04	0.55
1:8:290:VAL:HG11	1:8:379:GLN:HA	1.88	0.55
1:A:29:GLY:N	1:A:32:GLU:OE2	2.39	0.55
1:A:328:GLU:HG3	1:A:331:LYS:CG	2.36	0.55
1:C:267:ASP:OD1	1:C:271:ASN:N	2.27	0.55
1:D:377:ARG:HD2	1:N:312:GLY:O	2.07	0.55
1:F:74:ASN:HB2	1:F:85:ALA:HB2	1.89	0.55
1:F:238:ASP:O	1:F:241:THR:OG1	2.21	0.55
1:G:74:ASN:HB2	1:G:85:ALA:HB2	1.89	0.55
1:H:71:ASN:OD1	1:H:82:ASN:HB3	2.07	0.55
1:H:416:GLN:NE2	1:Y:285:TRP:HZ3	2.04	0.55
1:J:324:ILE:HD11	1:J:334:TYR:CD1	2.41	0.55
1:K:339:TRP:CH2	1:8:272:ASP:HB2	2.42	0.55
1:L:58:CYS:HB3	1:L:463:SER:OG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:71:ASN:OD1	1:L:82:ASN:HB3	2.07	0.55
1:L:267:ASP:OD1	1:L:271:ASN:N	2.27	0.55
1:N:100:GLN:HA	1:N:413:PRO:HA	1.88	0.55
1:N:269:ARG:CZ	1:P:298:ALA:O	2.55	0.55
1:N:274:LEU:N	1:N:274:LEU:HD13	2.22	0.55
1:N:285:TRP:HZ3	1:P:416:GLN:NE2	2.04	0.55
1:N:324:ILE:HD11	1:N:334:TYR:CD1	2.41	0.55
1:N:377:ARG:HD2	1:P:312:GLY:O	2.07	0.55
1:O:272:ASP:HB2	1:m:339:TRP:CH2	2.42	0.55
1:O:301:ALA:HB3	1:n:269:ARG:NH1	2.21	0.55
1:O:327:ALA:CB	1:O:377:ARG:NH2	2.70	0.55
1:Q:328:GLU:HG3	1:Q:331:LYS:CG	2.36	0.55
1:S:268:LEU:N	1:S:280:SER:O	2.38	0.55
1:S:286:LEU:HD13	1:S:398:ILE:HD11	1.85	0.55
1:T:58:CYS:HB3	1:T:463:SER:OG	2.06	0.55
1:U:74:ASN:HB2	1:U:85:ALA:HB2	1.89	0.55
1:V:285:TRP:HZ3	1:e:416:GLN:NE2	2.04	0.55
1:V:416:GLN:NE2	1:X:285:TRP:HZ3	2.04	0.55
1:W:328:GLU:HG3	1:W:331:LYS:CG	2.36	0.55
1:Y:71:ASN:OD1	1:Y:82:ASN:HB3	2.07	0.55
1:c:312:GLY:O	1:p:377:ARG:HD2	2.06	0.55
1:c:416:GLN:NE2	1:p:285:TRP:HZ3	2.04	0.55
1:h:74:ASN:HB2	1:h:85:ALA:HB2	1.89	0.55
1:h:507:GLY:HA2	1:i:66:TYR:O	2.07	0.55
1:i:269:ARG:CZ	1:j:298:ALA:O	2.55	0.55
1:i:285:TRP:HZ3	1:j:416:GLN:NE2	2.04	0.55
1:l:302:ASN:O	1:l:305:THR:OG1	2.08	0.55
1:m:328:GLU:HG3	1:m:331:LYS:CG	2.36	0.55
1:o:268:LEU:HD13	1:p:317:GLY:HA3	1.87	0.55
1:o:377:ARG:HD2	1:p:312:GLY:O	2.07	0.55
1:q:327:ALA:CB	1:q:377:ARG:NH2	2.70	0.55
1:r:268:LEU:N	1:r:280:SER:O	2.38	0.55
1:r:285:TRP:HD1	1:s:316:MET:HE1	1.71	0.55
1:r:285:TRP:HZ3	1:s:416:GLN:NE2	2.04	0.55
1:r:328:GLU:HG3	1:r:331:LYS:CG	2.36	0.55
1:s:74:ASN:HB2	1:s:85:ALA:HB2	1.89	0.55
1:t:74:ASN:HB2	1:t:85:ALA:HB2	1.89	0.55
1:t:317:GLY:HA3	1:v:268:LEU:HD13	1.89	0.55
1:u:58:CYS:HB3	1:u:463:SER:OG	2.06	0.55
1:u:328:GLU:HG3	1:u:331:LYS:CG	2.36	0.55
1:v:29:GLY:N	1:v:32:GLU:OE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:328:GLU:HG3	1:v:331:LYS:CG	2.36	0.55
1:z:66:TYR:O	1:4:507:GLY:HA2	2.07	0.55
1:1:328:GLU:HG3	1:1:331:LYS:CG	2.36	0.55
1:4:328:GLU:HG3	1:4:331:LYS:CG	2.36	0.55
1:5:71:ASN:OD1	1:5:82:ASN:HB3	2.07	0.55
1:5:316:MET:HE1	1:7:285:TRP:HD1	1.71	0.55
1:6:328:GLU:HG3	1:6:331:LYS:CG	2.36	0.55
1:7:290:VAL:HG11	1:7:379:GLN:HA	1.87	0.55
1:8:71:ASN:OD1	1:8:82:ASN:HB3	2.07	0.55
1:8:324:ILE:HD11	1:8:334:TYR:CD1	2.41	0.55
1:A:458:TYR:OH	1:B:347:ASN:HB2	2.07	0.55
1:B:328:GLU:HG3	1:B:331:LYS:CG	2.36	0.55
1:E:327:ALA:CB	1:E:377:ARG:NH2	2.70	0.55
1:G:328:GLU:HG3	1:G:331:LYS:CG	2.36	0.55
1:J:285:TRP:HZ3	1:L:416:GLN:NE2	2.04	0.55
1:K:298:ALA:O	1:8:269:ARG:CZ	2.55	0.55
1:M:74:ASN:HB2	1:M:85:ALA:HB2	1.89	0.55
1:M:316:MET:HE1	1:b:285:TRP:HD1	1.71	0.55
1:N:65:MET:HE3	1:N:67:LYS:HE2	1.87	0.55
1:O:269:ARG:CZ	1:m:298:ALA:O	2.55	0.55
1:P:74:ASN:HB2	1:P:85:ALA:HB2	1.89	0.55
1:Q:74:ASN:HB2	1:Q:85:ALA:HB2	1.89	0.55
1:R:29:GLY:N	1:R:32:GLU:OE2	2.39	0.55
1:R:118:SER:HB3	1:R:247:THR:HG23	1.89	0.55
1:R:327:ALA:CB	1:R:377:ARG:NH2	2.70	0.55
1:S:285:TRP:HD1	1:U:316:MET:HE1	1.71	0.55
1:T:71:ASN:OD1	1:T:82:ASN:HB3	2.07	0.55
1:T:339:TRP:CH2	1:l:272:ASP:HB2	2.42	0.55
1:V:312:GLY:O	1:X:377:ARG:HD2	2.07	0.55
1:Y:328:GLU:OE1	1:Y:328:GLU:N	2.26	0.55
1:Z:71:ASN:OD1	1:Z:82:ASN:HB3	2.07	0.55
1:Z:272:ASP:HB2	1:4:339:TRP:CH2	2.42	0.55
1:c:377:ARG:HD2	1:o:312:GLY:O	2.07	0.55
1:g:324:ILE:HD11	1:g:334:TYR:CD1	2.41	0.55
1:h:327:ALA:CB	1:h:377:ARG:NH2	2.70	0.55
1:i:100:GLN:HA	1:i:413:PRO:HA	1.87	0.55
1:k:58:CYS:HB3	1:k:463:SER:OG	2.06	0.55
1:l:58:CYS:HB3	1:l:463:SER:OG	2.06	0.55
1:l:327:ALA:CB	1:l:377:ARG:NH2	2.70	0.55
1:o:285:TRP:HZ3	1:p:416:GLN:NE2	2.04	0.55
1:q:118:SER:HB3	1:q:247:THR:HG23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:328:GLU:HG3	1:t:331:LYS:CG	2.36	0.55
1:u:65:MET:HE3	1:u:67:LYS:HE2	1.87	0.55
1:w:327:ALA:CB	1:w:377:ARG:NH2	2.70	0.55
1:w:525:LYS:NZ	1:x:422:ASP:OD2	2.22	0.55
1:x:74:ASN:HB2	1:x:85:ALA:HB2	1.89	0.55
1:x:324:ILE:HD11	1:x:334:TYR:CD1	2.41	0.55
1:y:324:ILE:HD11	1:y:334:TYR:CD1	2.41	0.55
1:z:71:ASN:OD1	1:z:82:ASN:HB3	2.07	0.55
1:5:165:PRO:O	1:5:189:TYR:OH	2.20	0.55
1:7:64:ASP:OD1	1:7:446:LYS:NZ	2.38	0.55
1:7:71:ASN:OD1	1:7:82:ASN:HB3	2.07	0.55
1:A:74:ASN:HB2	1:A:85:ALA:HB2	1.89	0.55
1:B:66:TYR:O	1:C:507:GLY:HA2	2.07	0.55
1:C:324:ILE:HD11	1:C:334:TYR:CD1	2.41	0.55
1:E:317:GLY:HA3	1:F:268:LEU:HD13	1.87	0.55
1:F:507:GLY:HA2	1:G:66:TYR:O	2.07	0.55
1:G:155:GLN:HG2	1:G:224:MET:HG2	1.87	0.55
1:I:507:GLY:HA2	1:J:66:TYR:O	2.07	0.55
1:J:100:GLN:HA	1:J:413:PRO:HA	1.87	0.55
1:M:268:LEU:N	1:M:280:SER:O	2.38	0.55
1:M:312:GLY:O	1:b:377:ARG:HD2	2.07	0.55
1:M:327:ALA:CB	1:M:377:ARG:NH2	2.70	0.55
1:O:118:SER:HB3	1:O:247:THR:HG23	1.89	0.55
1:O:377:ARG:HD2	1:m:312:GLY:O	2.07	0.55
1:Q:327:ALA:CB	1:Q:377:ARG:NH2	2.70	0.55
1:R:285:TRP:HD1	1:S:316:MET:HE1	1.71	0.55
1:R:328:GLU:HG3	1:R:331:LYS:CG	2.36	0.55
1:S:74:ASN:HB2	1:S:85:ALA:HB2	1.89	0.55
1:T:312:GLY:O	1:l:377:ARG:HD2	2.07	0.55
1:U:290:VAL:HG11	1:U:379:GLN:HA	1.87	0.55
1:W:118:SER:HB3	1:W:247:THR:HG23	1.90	0.55
1:X:312:GLY:O	1:e:377:ARG:HD2	2.07	0.55
1:Y:74:ASN:HB2	1:Y:85:ALA:HB2	1.89	0.55
1:Z:118:SER:HB3	1:Z:247:THR:HG23	1.89	0.55
1:Z:269:ARG:CZ	1:4:298:ALA:O	2.55	0.55
1:Z:328:GLU:HG3	1:Z:331:LYS:CG	2.36	0.55
1:c:155:GLN:HG2	1:c:224:MET:HG2	1.87	0.55
1:d:118:SER:HB3	1:d:247:THR:HG23	1.89	0.55
1:f:100:GLN:HA	1:f:413:PRO:HA	1.87	0.55
1:g:288:GLY:HA3	1:g:403:TRP:HB3	1.90	0.55
1:h:268:LEU:N	1:h:280:SER:O	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:74:ASN:HB2	1:i:85:ALA:HB2	1.89	0.55
1:j:74:ASN:HB2	1:j:85:ALA:HB2	1.89	0.55
1:l:118:SER:HB3	1:l:247:THR:HG23	1.89	0.55
1:m:71:ASN:OD1	1:m:82:ASN:HB3	2.07	0.55
1:n:118:SER:HB3	1:n:247:THR:HG23	1.89	0.55
1:q:71:ASN:OD1	1:q:82:ASN:HB3	2.07	0.55
1:t:165:PRO:O	1:t:189:TYR:OH	2.20	0.55
1:u:377:ARG:HD2	1:v:312:GLY:O	2.06	0.55
1:u:507:GLY:HA2	1:2:66:TYR:O	2.07	0.55
1:v:58:CYS:HB3	1:v:463:SER:OG	2.06	0.55
1:v:274:LEU:N	1:v:274:LEU:HD13	2.22	0.55
1:x:327:ALA:CB	1:x:377:ARG:NH2	2.70	0.55
1:z:377:ARG:HD2	1:1:312:GLY:O	2.07	0.55
1:2:100:GLN:HA	1:2:413:PRO:HA	1.87	0.55
1:2:324:ILE:HD11	1:2:334:TYR:CD1	2.41	0.55
1:6:118:SER:HB3	1:6:247:THR:HG23	1.90	0.55
1:7:74:ASN:HB2	1:7:85:ALA:HB2	1.89	0.55
1:7:238:ASP:O	1:7:241:THR:OG1	2.21	0.55
1:8:118:SER:HB3	1:8:247:THR:HG23	1.89	0.55
1:A:256:ARG:HG2	1:G:168:LEU:HB2	1.88	0.54
1:A:259:PRO:HG3	1:G:192:THR:HG23	1.89	0.54
1:A:339:TRP:CH2	1:I:272:ASP:HB2	2.42	0.54
1:B:58:CYS:HB3	1:B:463:SER:OG	2.06	0.54
1:B:312:GLY:O	1:L:377:ARG:HD2	2.07	0.54
1:C:71:ASN:OD1	1:C:82:ASN:HB3	2.07	0.54
1:C:288:GLY:HA3	1:C:403:TRP:HB3	1.90	0.54
1:C:327:ALA:CB	1:C:377:ARG:NH2	2.70	0.54
1:E:74:ASN:HB2	1:E:85:ALA:HB2	1.89	0.54
1:E:285:TRP:HZ3	1:Q:416:GLN:NE2	2.04	0.54
1:E:298:ALA:O	1:F:269:ARG:CZ	2.55	0.54
1:F:324:ILE:HD11	1:F:334:TYR:CD1	2.41	0.54
1:G:377:ARG:HD2	1:I:312:GLY:O	2.07	0.54
1:I:65:MET:HE3	1:I:67:LYS:HE2	1.87	0.54
1:J:285:TRP:HD1	1:L:316:MET:HE1	1.71	0.54
1:J:327:ALA:CB	1:J:377:ARG:NH2	2.70	0.54
1:K:347:ASN:HB2	1:L:458:TYR:OH	2.08	0.54
1:L:74:ASN:HB2	1:L:85:ALA:HB2	1.89	0.54
1:M:416:GLN:NE2	1:b:285:TRP:HZ3	2.04	0.54
1:N:71:ASN:OD1	1:N:82:ASN:HB3	2.07	0.54
1:N:74:ASN:HB2	1:N:85:ALA:HB2	1.89	0.54
1:N:327:ALA:CB	1:N:377:ARG:NH2	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:66:TYR:O	1:d:507:GLY:HA2	2.07	0.54
1:R:71:ASN:OD1	1:R:82:ASN:HB3	2.07	0.54
1:R:339:TRP:CH2	1:U:272:ASP:HB2	2.43	0.54
1:R:377:ARG:HD2	1:S:312:GLY:O	2.07	0.54
1:T:328:GLU:HG3	1:T:331:LYS:CG	2.36	0.54
1:W:58:CYS:HB3	1:W:463:SER:OG	2.06	0.54
1:Y:290:VAL:HG11	1:Y:379:GLN:HA	1.87	0.54
1:a:377:ARG:HD2	1:8:312:GLY:O	2.06	0.54
1:c:268:LEU:N	1:c:280:SER:O	2.38	0.54
1:c:285:TRP:HZ3	1:o:416:GLN:NE2	2.04	0.54
1:d:285:TRP:HZ3	1:l:416:GLN:NE2	2.05	0.54
1:e:74:ASN:HB2	1:e:85:ALA:HB2	1.89	0.54
1:f:298:ALA:O	1:g:269:ARG:CZ	2.54	0.54
1:f:377:ARG:HD2	1:h:312:GLY:O	2.07	0.54
1:g:327:ALA:CB	1:g:377:ARG:NH2	2.70	0.54
1:g:507:GLY:HA2	1:1:66:TYR:O	2.07	0.54
1:i:192:THR:HG23	1:k:259:PRO:HG3	1.90	0.54
1:i:377:ARG:HD2	1:j:312:GLY:O	2.07	0.54
1:m:58:CYS:HB3	1:m:463:SER:OG	2.06	0.54
1:p:118:SER:HB3	1:p:247:THR:HG23	1.89	0.54
1:q:29:GLY:N	1:q:32:GLU:OE2	2.39	0.54
1:q:328:GLU:HG3	1:q:331:LYS:CG	2.36	0.54
1:q:339:TRP:CH2	1:s:272:ASP:HB2	2.43	0.54
1:r:29:GLY:N	1:r:32:GLU:OE2	2.39	0.54
1:r:74:ASN:HB2	1:r:85:ALA:HB2	1.89	0.54
1:v:74:ASN:HB2	1:v:85:ALA:HB2	1.89	0.54
1:w:74:ASN:HB2	1:w:85:ALA:HB2	1.89	0.54
1:w:285:TRP:HZ3	1:x:416:GLN:NE2	2.04	0.54
1:z:416:GLN:NE2	1:2:285:TRP:HZ3	2.04	0.54
1:z:458:TYR:OH	1:4:347:ASN:HB2	2.08	0.54
1:1:58:CYS:HB3	1:1:463:SER:OG	2.06	0.54
1:1:71:ASN:OD1	1:1:82:ASN:HB3	2.07	0.54
1:4:288:GLY:HA3	1:4:403:TRP:HB3	1.89	0.54
1:8:328:GLU:HG3	1:8:331:LYS:CG	2.36	0.54
1:A:58:CYS:HB3	1:A:463:SER:OG	2.06	0.54
1:A:274:LEU:HD13	1:A:274:LEU:N	2.22	0.54
1:A:377:ARG:HD2	1:G:312:GLY:O	2.08	0.54
1:B:71:ASN:OD1	1:B:82:ASN:HB3	2.07	0.54
1:C:58:CYS:HB3	1:C:463:SER:OG	2.06	0.54
1:C:272:ASP:HB2	1:b:339:TRP:CH2	2.43	0.54
1:C:339:TRP:CH2	1:M:272:ASP:HB2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:58:CYS:HB3	1:E:463:SER:OG	2.06	0.54
1:E:288:GLY:HA3	1:E:403:TRP:HB3	1.90	0.54
1:H:312:GLY:O	1:Y:377:ARG:HD2	2.07	0.54
1:J:274:LEU:N	1:J:274:LEU:HD13	2.22	0.54
1:M:66:TYR:O	1:c:507:GLY:HA2	2.07	0.54
1:O:256:ARG:HG2	1:m:168:LEU:HB2	1.90	0.54
1:P:238:ASP:O	1:P:241:THR:OG1	2.21	0.54
1:P:268:LEU:N	1:P:280:SER:O	2.38	0.54
1:Q:165:PRO:O	1:Q:189:TYR:OH	2.20	0.54
1:S:288:GLY:HA3	1:S:403:TRP:HB3	1.89	0.54
1:T:168:LEU:HB2	1:l:256:ARG:HG2	1.90	0.54
1:V:118:SER:HB3	1:V:247:THR:HG23	1.89	0.54
1:X:458:TYR:OH	1:f:347:ASN:HB2	2.08	0.54
1:Z:288:GLY:HA3	1:Z:403:TRP:HB3	1.89	0.54
1:a:29:GLY:N	1:a:32:GLU:OE2	2.39	0.54
1:b:347:ASN:HB2	1:o:458:TYR:OH	2.08	0.54
1:c:74:ASN:HB2	1:c:85:ALA:HB2	1.89	0.54
1:c:272:ASP:HB2	1:o:339:TRP:CH2	2.43	0.54
1:c:290:VAL:HG11	1:c:379:GLN:HA	1.87	0.54
1:e:155:GLN:HG2	1:e:224:MET:HG2	1.87	0.54
1:e:268:LEU:N	1:e:280:SER:O	2.38	0.54
1:e:286:LEU:HD13	1:e:398:ILE:HD11	1.85	0.54
1:e:507:GLY:HA2	1:h:66:TYR:O	2.07	0.54
1:f:285:TRP:HD1	1:h:316:MET:HE1	1.71	0.54
1:f:327:ALA:CB	1:f:377:ARG:NH2	2.70	0.54
1:f:339:TRP:CH2	1:g:272:ASP:HB2	2.43	0.54
1:g:339:TRP:CH2	1:h:272:ASP:HB2	2.43	0.54
1:i:71:ASN:OD1	1:i:82:ASN:HB3	2.07	0.54
1:l:66:TYR:O	1:n:507:GLY:HA2	2.08	0.54
1:p:66:TYR:O	1:6:507:GLY:HA2	2.07	0.54
1:q:269:ARG:CZ	1:r:298:ALA:O	2.55	0.54
1:q:377:ARG:HD2	1:r:312:GLY:O	2.07	0.54
1:s:290:VAL:HG11	1:s:379:GLN:HA	1.87	0.54
1:t:259:PRO:HG3	1:u:192:THR:HG23	1.89	0.54
1:u:269:ARG:CZ	1:v:298:ALA:O	2.54	0.54
1:w:288:GLY:HA3	1:w:403:TRP:HB3	1.90	0.54
1:z:74:ASN:HB2	1:z:85:ALA:HB2	1.89	0.54
1:z:339:TRP:CH2	1:2:272:ASP:HB2	2.42	0.54
1:2:274:LEU:HD13	1:2:274:LEU:N	2.22	0.54
1:2:327:ALA:CB	1:2:377:ARG:NH2	2.70	0.54
1:4:71:ASN:OD1	1:4:82:ASN:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:29:GLY:N	1:5:32:GLU:OE2	2.39	0.54
1:7:328:GLU:OE1	1:7:328:GLU:N	2.26	0.54
1:A:269:ARG:NH1	1:G:301:ALA:HB3	2.21	0.54
1:A:347:ASN:HB2	1:E:458:TYR:OH	2.08	0.54
1:B:339:TRP:CH2	1:L:272:ASP:HB2	2.43	0.54
1:C:269:ARG:CZ	1:b:298:ALA:O	2.54	0.54
1:D:259:PRO:HG3	1:N:192:THR:HG23	1.90	0.54
1:D:285:TRP:HZ3	1:N:416:GLN:NE2	2.04	0.54
1:D:324:ILE:HD11	1:D:334:TYR:CD1	2.41	0.54
1:E:328:GLU:HG3	1:E:331:LYS:CG	2.36	0.54
1:G:507:GLY:HA2	1:W:66:TYR:O	2.07	0.54
1:H:29:GLY:N	1:H:32:GLU:OE2	2.39	0.54
1:H:168:LEU:HB2	1:Y:256:ARG:HG2	1.90	0.54
1:I:71:ASN:OD1	1:I:82:ASN:HB3	2.07	0.54
1:J:272:ASP:HB2	1:L:339:TRP:CH2	2.42	0.54
1:K:288:GLY:HA3	1:K:403:TRP:HB3	1.90	0.54
1:M:328:GLU:HG3	1:M:331:LYS:CG	2.36	0.54
1:N:118:SER:HB3	1:N:247:THR:HG23	1.89	0.54
1:Q:347:ASN:HB2	1:S:458:TYR:OH	2.08	0.54
1:R:168:LEU:HB2	1:U:256:ARG:HG2	1.90	0.54
1:R:269:ARG:CZ	1:S:298:ALA:O	2.55	0.54
1:T:324:ILE:HD11	1:T:334:TYR:CD1	2.41	0.54
1:T:507:GLY:HA2	1:U:66:TYR:O	2.07	0.54
1:V:66:TYR:O	1:W:507:GLY:HA2	2.07	0.54
1:V:74:ASN:HB2	1:V:85:ALA:HB2	1.89	0.54
1:W:29:GLY:N	1:W:32:GLU:OE2	2.39	0.54
1:X:339:TRP:CH2	1:e:272:ASP:HB2	2.43	0.54
1:X:347:ASN:HB2	1:Y:458:TYR:OH	2.08	0.54
1:X:416:GLN:NE2	1:e:285:TRP:HZ3	2.04	0.54
1:Z:312:GLY:O	1:3:377:ARG:HD2	2.06	0.54
1:a:74:ASN:HB2	1:a:85:ALA:HB2	1.89	0.54
1:a:328:GLU:HG3	1:a:331:LYS:CG	2.36	0.54
1:b:100:GLN:HA	1:b:413:PRO:HA	1.88	0.54
1:b:327:ALA:CB	1:b:377:ARG:NH2	2.70	0.54
1:c:286:LEU:HD13	1:c:398:ILE:HD11	1.85	0.54
1:f:66:TYR:O	1:z:507:GLY:HA2	2.08	0.54
1:f:285:TRP:HZ3	1:h:416:GLN:NE2	2.04	0.54
1:g:58:CYS:HB3	1:g:463:SER:OG	2.06	0.54
1:g:66:TYR:O	1:k:507:GLY:HA2	2.07	0.54
1:g:71:ASN:OD1	1:g:82:ASN:HB3	2.07	0.54
1:i:118:SER:HB3	1:i:247:THR:HG23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:238:ASP:O	1:j:241:THR:OG1	2.21	0.54
1:j:268:LEU:N	1:j:280:SER:O	2.38	0.54
1:j:507:GLY:HA2	1:x:66:TYR:O	2.07	0.54
1:k:458:TYR:OH	1:w:347:ASN:HB2	2.08	0.54
1:l:34:THR:HG21	1:l:228:GLY:O	2.08	0.54
1:m:324:ILE:HD11	1:m:334:TYR:CD1	2.41	0.54
1:o:347:ASN:HB2	1:7:458:TYR:OH	2.08	0.54
1:q:168:LEU:HB2	1:s:256:ARG:HG2	1.90	0.54
1:r:66:TYR:O	1:x:507:GLY:HA2	2.07	0.54
1:r:288:GLY:HA3	1:r:403:TRP:HB3	1.89	0.54
1:r:458:TYR:OH	1:x:347:ASN:HB2	2.08	0.54
1:t:155:GLN:HG2	1:t:224:MET:HG2	1.87	0.54
1:u:71:ASN:OD1	1:u:82:ASN:HB3	2.07	0.54
1:v:347:ASN:HB2	1:w:458:TYR:OH	2.08	0.54
1:w:58:CYS:HB3	1:w:463:SER:OG	2.06	0.54
1:w:298:ALA:O	1:y:269:ARG:CZ	2.55	0.54
1:x:272:ASP:HB2	1:y:339:TRP:CH2	2.43	0.54
1:z:272:ASP:HB2	1:1:339:TRP:CH2	2.43	0.54
1:2:288:GLY:HA3	1:2:403:TRP:HB3	1.89	0.54
1:5:168:LEU:HB2	1:7:256:ARG:HG2	1.90	0.54
1:6:58:CYS:HB3	1:6:463:SER:OG	2.06	0.54
1:6:267:ASP:OD1	1:6:271:ASN:N	2.27	0.54
1:7:288:GLY:HA3	1:7:403:TRP:HB3	1.90	0.54
1:A:301:ALA:HB3	1:I:269:ARG:NH1	2.22	0.54
1:B:327:ALA:CB	1:B:377:ARG:NH2	2.70	0.54
1:C:29:GLY:N	1:C:32:GLU:OE2	2.39	0.54
1:C:66:TYR:O	1:D:507:GLY:HA2	2.07	0.54
1:D:458:TYR:OH	1:E:347:ASN:HB2	2.08	0.54
1:F:339:TRP:CH2	1:Q:272:ASP:HB2	2.43	0.54
1:I:288:GLY:HA3	1:I:403:TRP:HB3	1.90	0.54
1:J:288:GLY:HA3	1:J:403:TRP:HB3	1.90	0.54
1:K:71:ASN:OD1	1:K:82:ASN:HB3	2.07	0.54
1:K:312:GLY:O	1:8:377:ARG:HD2	2.07	0.54
1:K:458:TYR:OH	1:7:347:ASN:HB2	2.08	0.54
1:L:274:LEU:N	1:L:274:LEU:HD13	2.22	0.54
1:L:507:GLY:HA2	1:b:66:TYR:O	2.08	0.54
1:M:168:LEU:HB2	1:b:256:ARG:HG2	1.90	0.54
1:M:274:LEU:HD13	1:M:274:LEU:N	2.22	0.54
1:N:286:LEU:HD13	1:N:398:ILE:HD11	1.85	0.54
1:O:34:THR:HG21	1:O:228:GLY:O	2.08	0.54
1:O:416:GLN:NE2	1:n:285:TRP:HZ3	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:328:GLU:HG3	1:P:331:LYS:CG	2.36	0.54
1:P:507:GLY:HA2	1:Q:66:TYR:O	2.07	0.54
1:R:192:THR:HG23	1:U:259:PRO:HG3	1.90	0.54
1:R:288:GLY:HA3	1:R:403:TRP:HB3	1.90	0.54
1:S:29:GLY:N	1:S:32:GLU:OE2	2.39	0.54
1:S:272:ASP:HB2	1:U:339:TRP:CH2	2.42	0.54
1:T:272:ASP:HB2	1:d:339:TRP:CH2	2.43	0.54
1:U:34:THR:HG21	1:U:228:GLY:O	2.08	0.54
1:V:274:LEU:N	1:V:274:LEU:HD13	2.22	0.54
1:V:288:GLY:HA3	1:V:403:TRP:HB3	1.90	0.54
1:V:339:TRP:CH2	1:X:272:ASP:HB2	2.43	0.54
1:X:290:VAL:HG11	1:X:379:GLN:HA	1.88	0.54
1:Y:288:GLY:HA3	1:Y:403:TRP:HB3	1.90	0.54
1:Z:285:TRP:HZ3	1:4:416:GLN:NE2	2.04	0.54
1:Z:339:TRP:CH2	1:3:272:ASP:HB2	2.42	0.54
1:Z:377:ARG:HD2	1:4:312:GLY:O	2.07	0.54
1:b:507:GLY:HA2	1:o:66:TYR:O	2.07	0.54
1:c:320:PRO:HA	1:c:333:GLU:O	2.08	0.54
1:d:58:CYS:HB3	1:d:463:SER:OG	2.06	0.54
1:d:320:PRO:HA	1:d:333:GLU:O	2.08	0.54
1:e:246:ASN:HA	1:e:525:LYS:H	1.73	0.54
1:e:290:VAL:HG11	1:e:379:GLN:HA	1.87	0.54
1:e:320:PRO:HA	1:e:333:GLU:O	2.08	0.54
1:e:327:ALA:CB	1:e:377:ARG:NH2	2.70	0.54
1:f:192:THR:HG23	1:g:259:PRO:HG3	1.90	0.54
1:f:256:ARG:HG2	1:h:168:LEU:HB2	1.90	0.54
1:f:324:ILE:HD11	1:f:334:TYR:CD1	2.41	0.54
1:h:328:GLU:HG3	1:h:331:LYS:CG	2.36	0.54
1:i:286:LEU:HD13	1:i:398:ILE:HD11	1.85	0.54
1:i:288:GLY:HA3	1:i:403:TRP:HB3	1.90	0.54
1:j:327:ALA:CB	1:j:377:ARG:NH2	2.70	0.54
1:j:328:GLU:HG3	1:j:331:LYS:CG	2.36	0.54
1:k:324:ILE:HD11	1:k:334:TYR:CD1	2.41	0.54
1:l:288:GLY:HA3	1:l:403:TRP:HB3	1.90	0.54
1:m:272:ASP:HB2	1:n:339:TRP:CH2	2.43	0.54
1:m:377:ARG:HD2	1:n:312:GLY:O	2.07	0.54
1:m:507:GLY:HA2	1:s:66:TYR:O	2.07	0.54
1:o:71:ASN:OD1	1:o:82:ASN:HB3	2.07	0.54
1:o:259:PRO:HG3	1:p:192:THR:HG23	1.90	0.54
1:p:74:ASN:HB2	1:p:85:ALA:HB2	1.89	0.54
1:p:288:GLY:HA3	1:p:403:TRP:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:192:THR:HG23	1:s:259:PRO:HG3	1.90	0.54
1:q:288:GLY:HA3	1:q:403:TRP:HB3	1.90	0.54
1:s:34:THR:HG21	1:s:228:GLY:O	2.08	0.54
1:s:274:LEU:N	1:s:274:LEU:HD13	2.22	0.54
1:t:377:ARG:HD2	1:u:312:GLY:O	2.07	0.54
1:u:288:GLY:HA3	1:u:403:TRP:HB3	1.90	0.54
1:w:328:GLU:HG3	1:w:331:LYS:CG	2.36	0.54
1:z:316:MET:HE1	1:2:285:TRP:HD1	1.71	0.54
1:z:327:ALA:CB	1:z:377:ARG:NH2	2.70	0.54
1:1:288:GLY:HA3	1:1:403:TRP:HB3	1.90	0.54
1:1:327:ALA:CB	1:1:377:ARG:NH2	2.70	0.54
1:2:328:GLU:HG3	1:2:331:LYS:CG	2.36	0.54
1:3:29:GLY:N	1:3:32:GLU:OE2	2.39	0.54
1:3:507:GLY:HA2	1:8:66:TYR:O	2.07	0.54
1:5:34:THR:HG21	1:5:228:GLY:O	2.08	0.54
1:5:269:ARG:CZ	1:6:298:ALA:O	2.55	0.54
1:5:298:ALA:O	1:7:269:ARG:CZ	2.55	0.54
1:5:312:GLY:O	1:7:377:ARG:HD2	2.07	0.54
1:8:288:GLY:HA3	1:8:403:TRP:HB3	1.90	0.54
1:B:416:GLN:NE2	1:L:285:TRP:HZ3	2.04	0.54
1:D:256:ARG:HG2	1:N:168:LEU:HB2	1.90	0.54
1:D:274:LEU:N	1:D:274:LEU:HD13	2.22	0.54
1:D:312:GLY:O	1:P:377:ARG:HD2	2.07	0.54
1:H:34:THR:HG21	1:H:228:GLY:O	2.08	0.54
1:H:298:ALA:O	1:Y:269:ARG:CZ	2.55	0.54
1:I:74:ASN:HB2	1:I:85:ALA:HB2	1.89	0.54
1:I:118:SER:HB3	1:I:247:THR:HG23	1.89	0.54
1:J:328:GLU:HG3	1:J:331:LYS:CG	2.36	0.54
1:K:274:LEU:N	1:K:274:LEU:HD13	2.22	0.54
1:K:416:GLN:NE2	1:8:285:TRP:HZ3	2.04	0.54
1:L:327:ALA:CB	1:L:377:ARG:NH2	2.70	0.54
1:M:368:THR:HB	1:M:371:LEU:HD12	1.90	0.54
1:N:259:PRO:HG3	1:P:192:THR:HG23	1.90	0.54
1:N:288:GLY:HA3	1:N:403:TRP:HB3	1.90	0.54
1:O:259:PRO:HG3	1:m:192:THR:HG23	1.90	0.54
1:O:285:TRP:HZ3	1:m:416:GLN:NE2	2.04	0.54
1:P:34:THR:HG21	1:P:228:GLY:O	2.08	0.54
1:P:165:PRO:O	1:P:189:TYR:OH	2.20	0.54
1:P:327:ALA:CB	1:P:377:ARG:NH2	2.70	0.54
1:Q:507:GLY:HA2	1:S:66:TYR:O	2.07	0.54
1:T:192:THR:HG23	1:l:259:PRO:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:327:ALA:CB	1:T:377:ARG:NH2	2.70	0.54
1:U:71:ASN:OD1	1:U:82:ASN:HB3	2.07	0.54
1:U:268:LEU:N	1:U:280:SER:O	2.38	0.54
1:U:274:LEU:HD13	1:U:274:LEU:N	2.22	0.54
1:V:192:THR:HG23	1:X:259:PRO:HG3	1.90	0.54
1:V:324:ILE:HD11	1:V:334:TYR:CD1	2.41	0.54
1:X:66:TYR:O	1:f:507:GLY:HA2	2.07	0.54
1:X:71:ASN:OD1	1:X:82:ASN:HB3	2.07	0.54
1:X:327:ALA:CB	1:X:377:ARG:NH2	2.70	0.54
1:X:368:THR:HB	1:X:371:LEU:HD12	1.90	0.54
1:Y:347:ASN:HB2	1:4:458:TYR:OH	2.08	0.54
1:Z:66:TYR:O	1:a:507:GLY:HA2	2.08	0.54
1:a:272:ASP:HB2	1:8:339:TRP:CH2	2.42	0.54
1:a:368:THR:HB	1:a:371:LEU:HD12	1.90	0.54
1:b:74:ASN:HB2	1:b:85:ALA:HB2	1.89	0.54
1:b:324:ILE:HD11	1:b:334:TYR:CD1	2.41	0.54
1:c:246:ASN:HA	1:c:525:LYS:H	1.73	0.54
1:c:327:ALA:CB	1:c:377:ARG:NH2	2.70	0.54
1:d:327:ALA:CB	1:d:377:ARG:NH2	2.70	0.54
1:d:368:THR:HB	1:d:371:LEU:HD12	1.90	0.54
1:h:368:THR:HB	1:h:371:LEU:HD12	1.90	0.54
1:i:259:PRO:HG3	1:j:192:THR:HG23	1.90	0.54
1:j:34:THR:HG21	1:j:228:GLY:O	2.08	0.54
1:j:368:THR:HB	1:j:371:LEU:HD12	1.90	0.54
1:j:377:ARG:HD2	1:k:312:GLY:O	2.07	0.54
1:k:66:TYR:O	1:w:507:GLY:HA2	2.07	0.54
1:k:118:SER:HB3	1:k:247:THR:HG23	1.89	0.54
1:l:458:TYR:OH	1:n:347:ASN:HB2	2.07	0.54
1:m:327:ALA:CB	1:m:377:ARG:NH2	2.70	0.54
1:n:320:PRO:HA	1:n:333:GLU:O	2.08	0.54
1:n:368:THR:HB	1:n:371:LEU:HD12	1.90	0.54
1:o:74:ASN:HB2	1:o:85:ALA:HB2	1.89	0.54
1:o:272:ASP:HB2	1:p:339:TRP:CH2	2.43	0.54
1:o:368:THR:HB	1:o:371:LEU:HD12	1.90	0.54
1:p:458:TYR:OH	1:6:347:ASN:HB2	2.08	0.54
1:r:272:ASP:HB2	1:s:339:TRP:CH2	2.42	0.54
1:s:71:ASN:OD1	1:s:82:ASN:HB3	2.07	0.54
1:s:118:SER:HB3	1:s:247:THR:HG23	1.89	0.54
1:t:288:GLY:HA3	1:t:403:TRP:HB3	1.89	0.54
1:u:74:ASN:HB2	1:u:85:ALA:HB2	1.89	0.54
1:v:458:TYR:OH	1:1:347:ASN:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:165:PRO:O	1:x:189:TYR:OH	2.20	0.54
1:x:320:PRO:HA	1:x:333:GLU:O	2.08	0.54
1:z:34:THR:HG21	1:z:228:GLY:O	2.08	0.54
1:z:118:SER:HB3	1:z:247:THR:HG23	1.89	0.54
1:z:285:TRP:HZ3	1:1:416:GLN:NE2	2.04	0.54
1:3:74:ASN:HB2	1:3:85:ALA:HB2	1.89	0.54
1:3:368:THR:HB	1:3:371:LEU:HD12	1.90	0.54
1:5:320:PRO:HA	1:5:333:GLU:O	2.08	0.54
1:6:29:GLY:N	1:6:32:GLU:OE2	2.39	0.54
1:6:34:THR:HG21	1:6:228:GLY:O	2.08	0.54
1:7:118:SER:HB3	1:7:247:THR:HG23	1.89	0.54
1:B:288:GLY:HA3	1:B:403:TRP:HB3	1.90	0.54
1:C:246:ASN:HA	1:C:525:LYS:H	1.73	0.54
1:C:259:PRO:HG3	1:b:192:THR:HG23	1.90	0.54
1:D:246:ASN:HA	1:D:525:LYS:H	1.73	0.54
1:D:272:ASP:HB2	1:N:339:TRP:CH2	2.43	0.54
1:F:168:LEU:HB2	1:Q:256:ARG:HG2	1.90	0.54
1:F:347:ASN:HB2	1:G:458:TYR:OH	2.08	0.54
1:G:286:LEU:HD13	1:G:398:ILE:HD11	1.85	0.54
1:G:327:ALA:CB	1:G:377:ARG:NH2	2.70	0.54
1:H:192:THR:HG23	1:Y:259:PRO:HG3	1.90	0.54
1:H:320:PRO:HA	1:H:333:GLU:O	2.08	0.54
1:J:74:ASN:HB2	1:J:85:ALA:HB2	1.89	0.54
1:L:34:THR:HG21	1:L:228:GLY:O	2.08	0.54
1:L:246:ASN:HA	1:L:525:LYS:H	1.73	0.54
1:O:288:GLY:HA3	1:O:403:TRP:HB3	1.90	0.54
1:O:458:TYR:OH	1:d:347:ASN:HB2	2.08	0.54
1:P:368:THR:HB	1:P:371:LEU:HD12	1.90	0.54
1:Q:34:THR:HG21	1:Q:228:GLY:O	2.08	0.54
1:R:74:ASN:HB2	1:R:85:ALA:HB2	1.89	0.54
1:S:256:ARG:HG2	1:U:168:LEU:HB2	1.90	0.54
1:T:288:GLY:HA3	1:T:403:TRP:HB3	1.90	0.54
1:T:368:THR:HB	1:T:371:LEU:HD12	1.90	0.54
1:T:416:GLN:NE2	1:l:285:TRP:HZ3	2.04	0.54
1:U:118:SER:HB3	1:U:247:THR:HG23	1.89	0.54
1:V:34:THR:HG21	1:V:228:GLY:O	2.08	0.54
1:V:458:TYR:OH	1:W:347:ASN:HB2	2.08	0.54
1:W:34:THR:HG21	1:W:228:GLY:O	2.08	0.54
1:X:74:ASN:HB2	1:X:85:ALA:HB2	1.89	0.54
1:Y:327:ALA:CB	1:Y:377:ARG:NH2	2.70	0.54
1:Z:256:ARG:HG2	1:4:168:LEU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:71:ASN:OD1	1:c:82:ASN:HB3	2.07	0.54
1:f:74:ASN:HB2	1:f:85:ALA:HB2	1.89	0.54
1:g:29:GLY:N	1:g:32:GLU:OE2	2.39	0.54
1:g:246:ASN:HA	1:g:525:LYS:H	1.73	0.54
1:h:274:LEU:HD13	1:h:274:LEU:N	2.22	0.54
1:i:416:GLN:NE2	1:k:285:TRP:HZ3	2.05	0.54
1:j:274:LEU:N	1:j:274:LEU:HD13	2.22	0.54
1:j:285:TRP:HD1	1:k:316:MET:HE1	1.71	0.54
1:k:246:ASN:HA	1:k:525:LYS:H	1.73	0.54
1:k:274:LEU:N	1:k:274:LEU:HD13	2.22	0.54
1:m:288:GLY:HA3	1:m:403:TRP:HB3	1.89	0.54
1:n:58:CYS:HB3	1:n:463:SER:OG	2.06	0.54
1:n:327:ALA:CB	1:n:377:ARG:NH2	2.70	0.54
1:o:290:VAL:HG11	1:o:379:GLN:HA	1.88	0.54
1:o:327:ALA:CB	1:o:377:ARG:NH2	2.70	0.54
1:p:34:THR:HG21	1:p:228:GLY:O	2.08	0.54
1:p:274:LEU:HD13	1:p:274:LEU:N	2.22	0.54
1:p:368:THR:HB	1:p:371:LEU:HD12	1.90	0.54
1:r:256:ARG:HG2	1:s:168:LEU:HB2	1.90	0.54
1:t:286:LEU:HD13	1:t:398:ILE:HD11	1.85	0.54
1:u:118:SER:HB3	1:u:247:THR:HG23	1.89	0.54
1:u:272:ASP:HB2	1:v:339:TRP:CH2	2.43	0.54
1:w:339:TRP:CH2	1:y:272:ASP:HB2	2.43	0.54
1:x:34:THR:HG21	1:x:228:GLY:O	2.08	0.54
1:x:118:SER:HB3	1:x:247:THR:HG23	1.89	0.54
1:2:74:ASN:HB2	1:2:85:ALA:HB2	1.89	0.54
1:3:328:GLU:HG3	1:3:331:LYS:CG	2.36	0.54
1:4:274:LEU:N	1:4:274:LEU:HD13	2.22	0.54
1:B:272:ASP:HB2	1:J:339:TRP:CH2	2.43	0.54
1:C:74:ASN:HB2	1:C:85:ALA:HB2	1.89	0.54
1:C:368:THR:HB	1:C:371:LEU:HD12	1.90	0.54
1:D:66:TYR:O	1:E:507:GLY:HA2	2.07	0.54
1:D:74:ASN:HB2	1:D:85:ALA:HB2	1.89	0.54
1:D:165:PRO:O	1:D:189:TYR:OH	2.20	0.54
1:E:339:TRP:CH2	1:F:272:ASP:HB2	2.43	0.54
1:F:274:LEU:N	1:F:274:LEU:HD13	2.22	0.54
1:G:259:PRO:HG3	1:I:192:THR:HG23	1.90	0.54
1:G:272:ASP:HB2	1:I:339:TRP:CH2	2.43	0.54
1:G:288:GLY:HA3	1:G:403:TRP:HB3	1.90	0.54
1:H:269:ARG:CZ	1:W:298:ALA:O	2.55	0.54
1:H:368:THR:HB	1:H:371:LEU:HD12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:347:ASN:HB2	1:a:458:TYR:OH	2.08	0.54
1:L:100:GLN:HA	1:L:413:PRO:HA	1.88	0.54
1:L:118:SER:HB3	1:L:247:THR:HG23	1.90	0.54
1:P:274:LEU:N	1:P:274:LEU:HD13	2.22	0.54
1:Q:118:SER:HB3	1:Q:247:THR:HG23	1.89	0.54
1:Q:320:PRO:HA	1:Q:333:GLU:O	2.08	0.54
1:R:165:PRO:O	1:R:189:TYR:OH	2.20	0.54
1:S:274:LEU:N	1:S:274:LEU:HD13	2.22	0.54
1:T:377:ARG:HD2	1:d:312:GLY:O	2.07	0.54
1:U:165:PRO:O	1:U:189:TYR:OH	2.20	0.54
1:U:347:ASN:HB2	1:e:458:TYR:OH	2.08	0.54
1:V:272:ASP:HB2	1:e:339:TRP:CH2	2.43	0.54
1:V:368:THR:HB	1:V:371:LEU:HD12	1.90	0.54
1:Y:118:SER:HB3	1:Y:247:THR:HG23	1.89	0.54
1:c:298:ALA:O	1:p:269:ARG:CZ	2.54	0.54
1:c:339:TRP:CH2	1:p:272:ASP:HB2	2.43	0.54
1:c:458:TYR:OH	1:s:347:ASN:HB2	2.08	0.54
1:e:71:ASN:OD1	1:e:82:ASN:HB3	2.07	0.54
1:g:347:ASN:HB2	1:1:458:TYR:OH	2.08	0.54
1:h:29:GLY:N	1:h:32:GLU:OE2	2.39	0.54
1:i:168:LEU:HB2	1:k:256:ARG:HG2	1.90	0.54
1:i:339:TRP:CH2	1:k:272:ASP:HB2	2.43	0.54
1:m:100:GLN:HA	1:m:413:PRO:HA	1.88	0.54
1:m:259:PRO:HG3	1:n:192:THR:HG23	1.90	0.54
1:m:368:THR:HB	1:m:371:LEU:HD12	1.90	0.54
1:p:324:ILE:HD11	1:p:334:TYR:CD1	2.41	0.54
1:q:74:ASN:HB2	1:q:85:ALA:HB2	1.89	0.54
1:r:274:LEU:N	1:r:274:LEU:HD13	2.22	0.54
1:s:268:LEU:N	1:s:280:SER:O	2.38	0.54
1:s:368:THR:HB	1:s:371:LEU:HD12	1.90	0.54
1:t:151:THR:C	1:y:133:GLN:HE21	2.15	0.54
1:t:327:ALA:CB	1:t:377:ARG:NH2	2.70	0.54
1:u:347:ASN:HB2	1:2:458:TYR:OH	2.08	0.54
1:x:256:ARG:HG2	1:y:168:LEU:HB2	1.90	0.54
1:z:100:GLN:HA	1:z:413:PRO:HA	1.87	0.54
1:z:246:ASN:HA	1:z:525:LYS:H	1.73	0.54
1:z:274:LEU:N	1:z:274:LEU:HD13	2.22	0.54
1:1:272:ASP:HB2	1:2:339:TRP:CH2	2.42	0.54
1:2:320:PRO:HA	1:2:333:GLU:O	2.08	0.54
1:2:347:ASN:HB2	1:3:458:TYR:OH	2.08	0.54
1:3:347:ASN:HB2	1:8:458:TYR:OH	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:327:ALA:CB	1:4:377:ARG:NH2	2.70	0.54
1:5:192:THR:HG23	1:7:259:PRO:HG3	1.90	0.54
1:5:256:ARG:HG2	1:6:168:LEU:HB2	1.90	0.54
1:6:246:ASN:HA	1:6:525:LYS:H	1.73	0.54
1:B:458:TYR:OH	1:C:347:ASN:HB2	2.08	0.54
1:D:118:SER:HB3	1:D:247:THR:HG23	1.90	0.54
1:D:316:MET:HE1	1:P:285:TRP:HD1	1.71	0.54
1:D:368:THR:HB	1:D:371:LEU:HD12	1.90	0.54
1:E:377:ARG:HD2	1:Q:312:GLY:O	2.07	0.54
1:F:165:PRO:O	1:F:189:TYR:OH	2.20	0.54
1:H:256:ARG:HG2	1:W:168:LEU:HB2	1.90	0.54
1:I:34:THR:HG21	1:I:228:GLY:O	2.08	0.54
1:I:72:LYS:HD3	1:I:202:GLN:O	2.08	0.54
1:I:347:ASN:HB2	1:J:458:TYR:OH	2.08	0.54
1:J:259:PRO:HG3	1:L:192:THR:HG23	1.90	0.54
1:J:507:GLY:HA2	1:a:66:TYR:O	2.08	0.54
1:K:34:THR:HG21	1:K:228:GLY:O	2.08	0.54
1:K:168:LEU:HB2	1:8:256:ARG:HG2	1.90	0.54
1:K:246:ASN:HA	1:K:525:LYS:H	1.73	0.54
1:K:320:PRO:HA	1:K:333:GLU:O	2.08	0.54
1:K:327:ALA:CB	1:K:377:ARG:NH2	2.70	0.54
1:O:246:ASN:HA	1:O:525:LYS:H	1.73	0.54
1:O:339:TRP:CH2	1:n:272:ASP:HB2	2.42	0.54
1:P:118:SER:HB3	1:P:247:THR:HG23	1.89	0.54
1:Q:246:ASN:HA	1:Q:525:LYS:H	1.73	0.54
1:S:259:PRO:HG3	1:U:192:THR:HG23	1.90	0.54
1:S:327:ALA:CB	1:S:377:ARG:NH2	2.70	0.54
1:S:347:ASN:HB2	1:d:458:TYR:OH	2.08	0.54
1:S:368:THR:HB	1:S:371:LEU:HD12	1.90	0.54
1:T:74:ASN:HB2	1:T:85:ALA:HB2	1.89	0.54
1:T:259:PRO:HG3	1:d:192:THR:HG23	1.90	0.54
1:U:288:GLY:HA3	1:U:403:TRP:HB3	1.89	0.54
1:U:368:THR:HB	1:U:371:LEU:HD12	1.90	0.54
1:W:246:ASN:HA	1:W:525:LYS:H	1.73	0.54
1:W:267:ASP:OD1	1:W:271:ASN:N	2.27	0.54
1:W:320:PRO:HA	1:W:333:GLU:O	2.08	0.54
1:W:327:ALA:CB	1:W:377:ARG:NH2	2.70	0.54
1:Y:246:ASN:HA	1:Y:525:LYS:H	1.73	0.54
1:a:327:ALA:CB	1:a:377:ARG:NH2	2.70	0.54
1:a:478:HIS:HE1	1:a:528:SER:O	1.91	0.54
1:c:72:LYS:HD3	1:c:202:GLN:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:274:LEU:N	1:c:274:LEU:HD13	2.22	0.54
1:d:74:ASN:HB2	1:d:85:ALA:HB2	1.89	0.54
1:d:272:ASP:HB2	1:l:339:TRP:CH2	2.42	0.54
1:e:72:LYS:HD3	1:e:202:GLN:O	2.08	0.54
1:e:288:GLY:HA3	1:e:403:TRP:HB3	1.90	0.54
1:f:29:GLY:N	1:f:32:GLU:OE2	2.39	0.54
1:f:168:LEU:HB2	1:g:256:ARG:HG2	1.90	0.54
1:g:74:ASN:HB2	1:g:85:ALA:HB2	1.89	0.54
1:g:368:THR:HB	1:g:371:LEU:HD12	1.90	0.54
1:j:118:SER:HB3	1:j:247:THR:HG23	1.89	0.54
1:j:272:ASP:HB2	1:k:339:TRP:CH2	2.43	0.54
1:j:347:ASN:HB2	1:x:458:TYR:OH	2.08	0.54
1:m:238:ASP:HB3	1:m:240:ASP:OD1	2.08	0.54
1:m:256:ARG:HG2	1:n:168:LEU:HB2	1.90	0.54
1:n:458:TYR:OH	1:r:347:ASN:HB2	2.08	0.54
1:p:507:GLY:HA2	1:q:66:TYR:O	2.07	0.54
1:q:272:ASP:HB2	1:r:339:TRP:CH2	2.42	0.54
1:r:259:PRO:HG3	1:s:192:THR:HG23	1.90	0.54
1:s:288:GLY:HA3	1:s:403:TRP:HB3	1.89	0.54
1:u:29:GLY:N	1:u:32:GLU:OE2	2.39	0.54
1:u:72:LYS:HD3	1:u:202:GLN:O	2.08	0.54
1:u:327:ALA:CB	1:u:377:ARG:NH2	2.70	0.54
1:v:507:GLY:HA2	1:w:66:TYR:O	2.07	0.54
1:w:312:GLY:O	1:y:377:ARG:HD2	2.07	0.54
1:w:377:ARG:HD2	1:x:312:GLY:O	2.07	0.54
1:y:34:THR:HG21	1:y:228:GLY:O	2.08	0.54
1:y:274:LEU:N	1:y:274:LEU:HD13	2.22	0.54
1:3:339:TRP:CH2	1:4:272:ASP:HB2	2.43	0.54
1:3:478:HIS:HE1	1:3:528:SER:O	1.91	0.54
1:5:368:THR:HB	1:5:371:LEU:HD12	1.90	0.54
1:6:320:PRO:HA	1:6:333:GLU:O	2.08	0.54
1:7:246:ASN:HA	1:7:525:LYS:H	1.73	0.54
1:7:327:ALA:CB	1:7:377:ARG:NH2	2.70	0.54
1:8:274:LEU:N	1:8:274:LEU:HD13	2.22	0.54
1:A:34:THR:HG21	1:A:228:GLY:O	2.08	0.54
1:A:72:LYS:HD3	1:A:202:GLN:O	2.08	0.54
1:A:246:ASN:HA	1:A:525:LYS:H	1.73	0.54
1:A:317:GLY:HA3	1:I:268:LEU:HD13	1.90	0.54
1:B:118:SER:HB3	1:B:247:THR:HG23	1.89	0.54
1:C:256:ARG:HG2	1:b:168:LEU:HB2	1.90	0.54
1:D:288:GLY:HA3	1:D:403:TRP:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:72:LYS:HD3	1:E:202:GLN:O	2.08	0.54
1:E:274:LEU:HD13	1:E:274:LEU:N	2.22	0.54
1:E:312:GLY:O	1:F:377:ARG:HD2	2.07	0.54
1:F:34:THR:HG21	1:F:228:GLY:O	2.08	0.54
1:F:72:LYS:HD3	1:F:202:GLN:O	2.08	0.54
1:G:238:ASP:HB3	1:G:240:ASP:OD1	2.08	0.54
1:H:74:ASN:HB2	1:H:85:ALA:HB2	1.89	0.54
1:H:274:LEU:N	1:H:274:LEU:HD13	2.22	0.54
1:I:238:ASP:HB3	1:I:240:ASP:OD1	2.08	0.54
1:I:327:ALA:CB	1:I:377:ARG:NH2	2.70	0.54
1:J:256:ARG:HG2	1:L:168:LEU:HB2	1.90	0.54
1:J:320:PRO:HA	1:J:333:GLU:O	2.08	0.54
1:K:272:ASP:HB2	1:a:339:TRP:CH2	2.43	0.54
1:M:29:GLY:N	1:M:32:GLU:OE2	2.39	0.54
1:N:507:GLY:HA2	1:m:66:TYR:O	2.07	0.54
1:O:274:LEU:N	1:O:274:LEU:HD13	2.22	0.54
1:P:347:ASN:HB2	1:Q:458:TYR:OH	2.08	0.54
1:R:66:TYR:O	1:V:507:GLY:HA2	2.07	0.54
1:R:272:ASP:HB2	1:S:339:TRP:CH2	2.42	0.54
1:R:298:ALA:O	1:U:269:ARG:CZ	2.54	0.54
1:T:66:TYR:O	1:i:507:GLY:HA2	2.07	0.54
1:T:100:GLN:HA	1:T:413:PRO:HA	1.87	0.54
1:T:238:ASP:O	1:T:241:THR:OG1	2.21	0.54
1:T:256:ARG:HG2	1:d:168:LEU:HB2	1.90	0.54
1:T:268:LEU:N	1:T:280:SER:O	2.38	0.54
1:T:347:ASN:HB2	1:U:458:TYR:OH	2.08	0.54
1:U:320:PRO:HA	1:U:333:GLU:O	2.08	0.54
1:V:269:ARG:CZ	1:e:298:ALA:O	2.54	0.54
1:X:72:LYS:HD3	1:X:202:GLN:O	2.08	0.54
1:Y:34:THR:HG21	1:Y:228:GLY:O	2.08	0.54
1:Y:507:GLY:HA2	1:4:66:TYR:O	2.07	0.54
1:Z:458:TYR:OH	1:a:347:ASN:HB2	2.08	0.54
1:a:71:ASN:OD1	1:a:82:ASN:HB3	2.07	0.54
1:b:274:LEU:N	1:b:274:LEU:HD13	2.22	0.54
1:c:405:ARG:O	1:c:525:LYS:HE3	2.08	0.54
1:d:246:ASN:HA	1:d:525:LYS:H	1.73	0.54
1:f:274:LEU:N	1:f:274:LEU:HD13	2.22	0.54
1:f:458:TYR:OH	1:z:347:ASN:HB2	2.08	0.54
1:g:458:TYR:OH	1:k:347:ASN:HB2	2.08	0.54
1:h:320:PRO:HA	1:h:333:GLU:O	2.08	0.54
1:m:74:ASN:HB2	1:m:85:ALA:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:347:ASN:HB2	1:s:458:TYR:OH	2.08	0.54
1:o:34:THR:HG21	1:o:228:GLY:O	2.08	0.54
1:o:72:LYS:HD3	1:o:202:GLN:O	2.08	0.54
1:p:347:ASN:HB2	1:q:458:TYR:OH	2.08	0.54
1:r:327:ALA:CB	1:r:377:ARG:NH2	2.70	0.54
1:r:368:THR:HB	1:r:371:LEU:HD12	1.90	0.54
1:t:238:ASP:HB3	1:t:240:ASP:OD1	2.08	0.54
1:t:263:THR:HA	1:u:172:GLN:HA	1.89	0.54
1:u:34:THR:HG21	1:u:228:GLY:O	2.08	0.54
1:u:238:ASP:HB3	1:u:240:ASP:OD1	2.08	0.54
1:u:274:LEU:N	1:u:274:LEU:HD13	2.22	0.54
1:w:34:THR:HG21	1:w:228:GLY:O	2.08	0.54
1:w:168:LEU:HB2	1:y:256:ARG:HG2	1.90	0.54
1:x:246:ASN:HA	1:x:525:LYS:H	1.73	0.54
1:y:72:LYS:HD3	1:y:202:GLN:O	2.08	0.54
1:y:238:ASP:HB3	1:y:240:ASP:OD1	2.08	0.54
1:z:168:LEU:HB2	1:2:256:ARG:HG2	1.90	0.54
1:z:192:THR:HG23	1:2:259:PRO:HG3	1.90	0.54
1:z:405:ARG:O	1:z:525:LYS:HE3	2.08	0.54
1:1:118:SER:HB3	1:1:247:THR:HG23	1.89	0.54
1:2:368:THR:HB	1:2:371:LEU:HD12	1.90	0.54
1:2:507:GLY:HA2	1:3:66:TYR:O	2.08	0.54
1:3:246:ASN:HA	1:3:525:LYS:H	1.73	0.54
1:3:298:ALA:O	1:4:269:ARG:CZ	2.54	0.54
1:4:34:THR:HG21	1:4:228:GLY:O	2.08	0.54
1:4:246:ASN:HA	1:4:525:LYS:H	1.73	0.54
1:5:74:ASN:HB2	1:5:85:ALA:HB2	1.89	0.54
1:5:327:ALA:CB	1:5:377:ARG:NH2	2.70	0.54
1:5:339:TRP:CH2	1:7:272:ASP:HB2	2.43	0.54
1:6:327:ALA:CB	1:6:377:ARG:NH2	2.70	0.54
1:7:34:THR:HG21	1:7:228:GLY:O	2.08	0.54
1:7:238:ASP:HB3	1:7:240:ASP:OD1	2.08	0.54
1:8:327:ALA:CB	1:8:377:ARG:NH2	2.70	0.54
1:A:118:SER:HB3	1:A:247:THR:HG23	1.89	0.54
1:B:74:ASN:HB2	1:B:85:ALA:HB2	1.89	0.54
1:C:320:PRO:HA	1:C:333:GLU:O	2.08	0.54
1:D:72:LYS:HD3	1:D:202:GLN:O	2.08	0.54
1:D:238:ASP:HB3	1:D:240:ASP:OD1	2.08	0.54
1:D:320:PRO:HA	1:D:333:GLU:O	2.08	0.54
1:D:339:TRP:CH2	1:P:272:ASP:HB2	2.43	0.54
1:E:168:LEU:HB2	1:F:256:ARG:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:238:ASP:HB3	1:F:240:ASP:OD1	2.08	0.54
1:G:72:LYS:HD3	1:G:202:GLN:O	2.08	0.54
1:H:272:ASP:HB2	1:W:339:TRP:CH2	2.43	0.54
1:H:327:ALA:CB	1:H:377:ARG:NH2	2.70	0.54
1:H:339:TRP:CH2	1:Y:272:ASP:HB2	2.42	0.54
1:I:29:GLY:N	1:I:32:GLU:OE2	2.39	0.54
1:J:368:THR:HB	1:J:371:LEU:HD12	1.90	0.54
1:K:66:TYR:O	1:7:507:GLY:HA2	2.07	0.54
1:K:74:ASN:HB2	1:K:85:ALA:HB2	1.89	0.54
1:K:118:SER:HB3	1:K:247:THR:HG23	1.89	0.54
1:K:269:ARG:CZ	1:a:298:ALA:O	2.54	0.54
1:L:288:GLY:HA3	1:L:403:TRP:HB3	1.89	0.54
1:L:347:ASN:HB2	1:b:458:TYR:OH	2.08	0.54
1:L:405:ARG:O	1:L:525:LYS:HE3	2.08	0.54
1:N:256:ARG:HG2	1:P:168:LEU:HB2	1.90	0.54
1:P:405:ARG:O	1:P:525:LYS:HE3	2.08	0.54
1:R:458:TYR:OH	1:V:347:ASN:HB2	2.08	0.54
1:T:238:ASP:HB3	1:T:240:ASP:OD1	2.08	0.54
1:W:238:ASP:HB3	1:W:240:ASP:OD1	2.08	0.54
1:W:259:PRO:HG3	1:Y:192:THR:HG23	1.90	0.54
1:X:34:THR:HG21	1:X:228:GLY:O	2.08	0.54
1:X:405:ARG:O	1:X:525:LYS:HE3	2.08	0.54
1:X:478:HIS:HE1	1:X:528:SER:O	1.91	0.54
1:Y:238:ASP:HB3	1:Y:240:ASP:OD1	2.08	0.54
1:Z:274:LEU:N	1:Z:274:LEU:HD13	2.22	0.54
1:Z:327:ALA:CB	1:Z:377:ARG:NH2	2.70	0.54
1:a:34:THR:HG21	1:a:228:GLY:O	2.08	0.54
1:a:246:ASN:HA	1:a:525:LYS:H	1.73	0.54
1:a:320:PRO:HA	1:a:333:GLU:O	2.08	0.54
1:b:29:GLY:N	1:b:32:GLU:OE2	2.39	0.54
1:c:66:TYR:O	1:s:507:GLY:HA2	2.08	0.54
1:c:288:GLY:HA3	1:c:403:TRP:HB3	1.90	0.54
1:d:34:THR:HG21	1:d:228:GLY:O	2.08	0.54
1:e:274:LEU:N	1:e:274:LEU:HD13	2.22	0.54
1:e:405:ARG:O	1:e:525:LYS:HE3	2.08	0.54
1:i:256:ARG:HG2	1:j:168:LEU:HB2	1.90	0.54
1:i:327:ALA:CB	1:i:377:ARG:NH2	2.70	0.54
1:k:74:ASN:HB2	1:k:85:ALA:HB2	1.89	0.54
1:k:165:PRO:O	1:k:189:TYR:OH	2.20	0.54
1:k:238:ASP:HB3	1:k:240:ASP:OD1	2.08	0.54
1:k:368:THR:HB	1:k:371:LEU:HD12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:274:LEU:HD13	1:l:274:LEU:N	2.22	0.54
1:m:238:ASP:O	1:m:241:THR:OG1	2.21	0.54
1:n:74:ASN:HB2	1:n:85:ALA:HB2	1.89	0.54
1:n:246:ASN:HA	1:n:525:LYS:H	1.73	0.54
1:o:274:LEU:N	1:o:274:LEU:HD13	2.22	0.54
1:o:405:ARG:O	1:o:525:LYS:HE3	2.08	0.54
1:p:238:ASP:HB3	1:p:240:ASP:OD1	2.08	0.54
1:q:298:ALA:O	1:s:269:ARG:CZ	2.54	0.54
1:s:320:PRO:HA	1:s:333:GLU:O	2.08	0.54
1:t:72:LYS:HD3	1:t:202:GLN:O	2.08	0.54
1:v:72:LYS:HD3	1:v:202:GLN:O	2.08	0.54
1:v:118:SER:HB3	1:v:247:THR:HG23	1.89	0.54
1:v:246:ASN:HA	1:v:525:LYS:H	1.73	0.54
1:w:72:LYS:HD3	1:w:202:GLN:O	2.08	0.54
1:w:274:LEU:HD13	1:w:274:LEU:N	2.22	0.54
1:y:327:ALA:CB	1:y:377:ARG:NH2	2.70	0.54
1:z:259:PRO:HG3	1:1:192:THR:HG23	1.90	0.54
1:z:288:GLY:HA3	1:z:403:TRP:HB3	1.89	0.54
1:2:34:THR:HG21	1:2:228:GLY:O	2.08	0.54
1:3:34:THR:HG21	1:3:228:GLY:O	2.08	0.54
1:3:238:ASP:HB3	1:3:240:ASP:OD1	2.08	0.54
1:3:320:PRO:HA	1:3:333:GLU:O	2.08	0.54
1:3:327:ALA:CB	1:3:377:ARG:NH2	2.70	0.54
1:4:74:ASN:HB2	1:4:85:ALA:HB2	1.89	0.54
1:4:320:PRO:HA	1:4:333:GLU:O	2.08	0.54
1:4:405:ARG:O	1:4:525:LYS:HE3	2.08	0.54
1:5:272:ASP:HB2	1:6:339:TRP:CH2	2.43	0.54
1:5:274:LEU:N	1:5:274:LEU:HD13	2.22	0.54
1:6:238:ASP:HB3	1:6:240:ASP:OD1	2.08	0.54
1:6:259:PRO:HG3	1:7:192:THR:HG23	1.90	0.54
1:6:285:TRP:HD1	1:7:316:MET:HE1	1.70	0.54
1:B:192:THR:HG23	1:L:259:PRO:HG3	1.90	0.53
1:B:320:PRO:HA	1:B:333:GLU:O	2.08	0.53
1:B:377:ARG:HD2	1:J:312:GLY:O	2.07	0.53
1:B:478:HIS:HE1	1:B:528:SER:O	1.91	0.53
1:C:192:THR:HG23	1:M:259:PRO:HG3	1.90	0.53
1:C:458:TYR:OH	1:D:347:ASN:HB2	2.08	0.53
1:E:34:THR:HG21	1:E:228:GLY:O	2.08	0.53
1:G:478:HIS:HE1	1:G:528:SER:O	1.91	0.53
1:H:405:ARG:O	1:H:525:LYS:HE3	2.08	0.53
1:I:274:LEU:HD13	1:I:274:LEU:N	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:34:THR:HG21	1:J:228:GLY:O	2.08	0.53
1:K:192:THR:HG23	1:8:259:PRO:HG3	1.90	0.53
1:K:405:ARG:O	1:K:525:LYS:HE3	2.08	0.53
1:M:72:LYS:HD3	1:M:202:GLN:O	2.08	0.53
1:M:320:PRO:HA	1:M:333:GLU:O	2.08	0.53
1:N:238:ASP:HB3	1:N:240:ASP:OD1	2.08	0.53
1:N:405:ARG:O	1:N:525:LYS:HE3	2.08	0.53
1:O:192:THR:HG23	1:n:259:PRO:HG3	1.90	0.53
1:S:72:LYS:HD3	1:S:202:GLN:O	2.08	0.53
1:S:118:SER:HB3	1:S:247:THR:HG23	1.89	0.53
1:S:507:GLY:HA2	1:d:66:TYR:O	2.08	0.53
1:U:405:ARG:O	1:U:525:LYS:HE3	2.08	0.53
1:U:507:GLY:HA2	1:e:66:TYR:O	2.08	0.53
1:V:238:ASP:HB3	1:V:240:ASP:OD1	2.08	0.53
1:V:259:PRO:HG3	1:e:192:THR:HG23	1.90	0.53
1:V:327:ALA:CB	1:V:377:ARG:NH2	2.70	0.53
1:W:71:ASN:OD1	1:W:82:ASN:HB3	2.07	0.53
1:X:274:LEU:N	1:X:274:LEU:HD13	2.22	0.53
1:Y:274:LEU:HD13	1:Y:274:LEU:N	2.22	0.53
1:Y:478:HIS:HE1	1:Y:528:SER:O	1.91	0.53
1:Z:29:GLY:N	1:Z:32:GLU:OE2	2.39	0.53
1:Z:74:ASN:HB2	1:Z:85:ALA:HB2	1.89	0.53
1:Z:259:PRO:HG3	1:4:192:THR:HG23	1.90	0.53
1:Z:320:PRO:HA	1:Z:333:GLU:O	2.08	0.53
1:a:238:ASP:HB3	1:a:240:ASP:OD1	2.08	0.53
1:a:274:LEU:N	1:a:274:LEU:HD13	2.22	0.53
1:d:238:ASP:HB3	1:d:240:ASP:OD1	2.08	0.53
1:g:320:PRO:HA	1:g:333:GLU:O	2.08	0.53
1:h:72:LYS:HD3	1:h:202:GLN:O	2.08	0.53
1:i:238:ASP:HB3	1:i:240:ASP:OD1	2.08	0.53
1:i:320:PRO:HA	1:i:333:GLU:O	2.08	0.53
1:i:405:ARG:O	1:i:525:LYS:HE3	2.08	0.53
1:j:238:ASP:HB3	1:j:240:ASP:OD1	2.08	0.53
1:j:405:ARG:O	1:j:525:LYS:HE3	2.09	0.53
1:k:72:LYS:HD3	1:k:202:GLN:O	2.08	0.53
1:k:288:GLY:HA3	1:k:403:TRP:HB3	1.90	0.53
1:k:320:PRO:HA	1:k:333:GLU:O	2.08	0.53
1:l:74:ASN:HB2	1:l:85:ALA:HB2	1.89	0.53
1:l:246:ASN:HA	1:l:525:LYS:H	1.73	0.53
1:m:268:LEU:N	1:m:280:SER:O	2.38	0.53
1:n:34:THR:HG21	1:n:228:GLY:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:66:TYR:O	1:r:507:GLY:HA2	2.08	0.53
1:n:238:ASP:HB3	1:n:240:ASP:OD1	2.08	0.53
1:o:478:HIS:HE1	1:o:528:SER:O	1.91	0.53
1:q:165:PRO:O	1:q:189:TYR:OH	2.20	0.53
1:r:478:HIS:HE1	1:r:528:SER:O	1.91	0.53
1:s:72:LYS:HD3	1:s:202:GLN:O	2.08	0.53
1:s:405:ARG:O	1:s:525:LYS:HE3	2.08	0.53
1:t:301:ALA:HB3	1:v:269:ARG:NH1	2.22	0.53
1:t:478:HIS:HE1	1:t:528:SER:O	1.91	0.53
1:v:34:THR:HG21	1:v:228:GLY:O	2.08	0.53
1:w:272:ASP:HB2	1:x:339:TRP:CH2	2.43	0.53
1:x:288:GLY:HA3	1:x:403:TRP:HB3	1.89	0.53
1:y:165:PRO:O	1:y:189:TYR:OH	2.20	0.53
1:1:320:PRO:HA	1:1:333:GLU:O	2.08	0.53
1:3:71:ASN:OD1	1:3:82:ASN:HB3	2.07	0.53
1:3:165:PRO:O	1:3:189:TYR:OH	2.20	0.53
1:4:118:SER:HB3	1:4:247:THR:HG23	1.89	0.53
1:5:72:LYS:HD3	1:5:202:GLN:O	2.08	0.53
1:5:238:ASP:HB3	1:5:240:ASP:OD1	2.08	0.53
1:6:288:GLY:HA3	1:6:403:TRP:HB3	1.90	0.53
1:7:274:LEU:N	1:7:274:LEU:HD13	2.22	0.53
1:7:478:HIS:HE1	1:7:528:SER:O	1.91	0.53
1:A:327:ALA:CB	1:A:377:ARG:NH2	2.70	0.53
1:A:368:THR:HB	1:A:371:LEU:HD12	1.90	0.53
1:B:238:ASP:HB3	1:B:240:ASP:OD1	2.08	0.53
1:B:368:THR:HB	1:B:371:LEU:HD12	1.90	0.53
1:C:72:LYS:HD3	1:C:202:GLN:O	2.08	0.53
1:D:66:TYR:OH	1:D:217:LEU:N	2.42	0.53
1:E:118:SER:HB3	1:E:247:THR:HG23	1.89	0.53
1:E:405:ARG:O	1:E:525:LYS:HE3	2.08	0.53
1:F:288:GLY:HA3	1:F:403:TRP:HB3	1.90	0.53
1:F:327:ALA:CB	1:F:377:ARG:NH2	2.70	0.53
1:H:72:LYS:HD3	1:H:202:GLN:O	2.08	0.53
1:I:246:ASN:HA	1:I:525:LYS:H	1.73	0.53
1:J:118:SER:HB3	1:J:247:THR:HG23	1.89	0.53
1:K:72:LYS:HD3	1:K:202:GLN:O	2.08	0.53
1:N:272:ASP:HB2	1:P:339:TRP:CH2	2.42	0.53
1:N:320:PRO:HA	1:N:333:GLU:O	2.08	0.53
1:Q:288:GLY:HA3	1:Q:403:TRP:HB3	1.89	0.53
1:R:34:THR:HG21	1:R:228:GLY:O	2.08	0.53
1:S:478:HIS:HE1	1:S:528:SER:O	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:274:LEU:N	1:T:274:LEU:HD13	2.22	0.53
1:T:405:ARG:O	1:T:525:LYS:HE3	2.08	0.53
1:U:72:LYS:HD3	1:U:202:GLN:O	2.08	0.53
1:U:246:ASN:HA	1:U:525:LYS:H	1.73	0.53
1:W:74:ASN:HB2	1:W:85:ALA:HB2	1.89	0.53
1:W:274:LEU:N	1:W:274:LEU:HD13	2.22	0.53
1:X:118:SER:HB3	1:X:247:THR:HG23	1.89	0.53
1:b:328:GLU:HG3	1:b:331:LYS:CG	2.36	0.53
1:b:405:ARG:O	1:b:525:LYS:HE3	2.08	0.53
1:c:192:THR:HG23	1:p:259:PRO:HG3	1.90	0.53
1:c:478:HIS:HE1	1:c:528:SER:O	1.91	0.53
1:d:259:PRO:HG3	1:l:192:THR:HG23	1.90	0.53
1:e:478:HIS:HE1	1:e:528:SER:O	1.91	0.53
1:f:405:ARG:O	1:f:525:LYS:HE3	2.08	0.53
1:g:168:LEU:HB2	1:h:256:ARG:HG2	1.90	0.53
1:j:246:ASN:HA	1:j:525:LYS:H	1.73	0.53
1:j:288:GLY:HA3	1:j:403:TRP:HB3	1.90	0.53
1:m:274:LEU:N	1:m:274:LEU:HD13	2.22	0.53
1:m:405:ARG:O	1:m:525:LYS:HE3	2.08	0.53
1:o:288:GLY:HA3	1:o:403:TRP:HB3	1.90	0.53
1:p:327:ALA:CB	1:p:377:ARG:NH2	2.70	0.53
1:p:405:ARG:O	1:p:525:LYS:HE3	2.08	0.53
1:r:72:LYS:HD3	1:r:202:GLN:O	2.08	0.53
1:r:118:SER:HB3	1:r:247:THR:HG23	1.89	0.53
1:r:238:ASP:HB3	1:r:240:ASP:OD1	2.08	0.53
1:s:246:ASN:HA	1:s:525:LYS:H	1.73	0.53
1:t:246:ASN:HA	1:t:525:LYS:H	1.73	0.53
1:t:368:THR:HB	1:t:371:LEU:HD12	1.90	0.53
1:t:405:ARG:O	1:t:525:LYS:HE3	2.08	0.53
1:u:458:TYR:OH	1:5:347:ASN:HB2	2.08	0.53
1:v:66:TYR:O	1:1:507:GLY:HA2	2.08	0.53
1:w:405:ARG:O	1:w:525:LYS:HE3	2.08	0.53
1:1:34:THR:HG21	1:1:228:GLY:O	2.08	0.53
1:1:74:ASN:HB2	1:1:85:ALA:HB2	1.89	0.53
1:1:377:ARG:HD2	1:2:312:GLY:O	2.07	0.53
1:1:478:HIS:HE1	1:1:528:SER:O	1.91	0.53
1:2:238:ASP:HB3	1:2:240:ASP:OD1	2.08	0.53
1:3:274:LEU:N	1:3:274:LEU:HD13	2.22	0.53
1:4:72:LYS:HD3	1:4:202:GLN:O	2.08	0.53
1:5:405:ARG:O	1:5:525:LYS:HE3	2.09	0.53
1:8:320:PRO:HA	1:8:333:GLU:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:GLY:HA2	1:E:66:TYR:O	2.07	0.53
1:B:274:LEU:N	1:B:274:LEU:HD13	2.22	0.53
1:C:168:LEU:HB2	1:M:256:ARG:HG2	1.90	0.53
1:E:66:TYR:OH	1:E:217:LEU:N	2.42	0.53
1:E:238:ASP:HB3	1:E:240:ASP:OD1	2.08	0.53
1:E:478:HIS:HE1	1:E:528:SER:O	1.91	0.53
1:G:34:THR:HG21	1:G:228:GLY:O	2.08	0.53
1:G:246:ASN:HA	1:G:525:LYS:H	1.73	0.53
1:G:368:THR:HB	1:G:371:LEU:HD12	1.90	0.53
1:G:405:ARG:O	1:G:525:LYS:HE3	2.08	0.53
1:H:118:SER:HB3	1:H:247:THR:HG23	1.89	0.53
1:H:238:ASP:HB3	1:H:240:ASP:OD1	2.08	0.53
1:H:507:GLY:HA2	1:I:66:TYR:O	2.07	0.53
1:J:238:ASP:HB3	1:J:240:ASP:OD1	2.08	0.53
1:J:269:ARG:CZ	1:L:298:ALA:O	2.55	0.53
1:L:478:HIS:HE1	1:L:528:SER:O	1.91	0.53
1:O:66:TYR:OH	1:O:217:LEU:N	2.42	0.53
1:P:238:ASP:HB3	1:P:240:ASP:OD1	2.08	0.53
1:R:256:ARG:HG2	1:S:168:LEU:HB2	1.90	0.53
1:R:368:THR:HB	1:R:371:LEU:HD12	1.90	0.53
1:S:238:ASP:HB3	1:S:240:ASP:OD1	2.08	0.53
1:V:405:ARG:O	1:V:525:LYS:HE3	2.08	0.53
1:W:72:LYS:HD3	1:W:202:GLN:O	2.08	0.53
1:W:285:TRP:HD1	1:Y:316:MET:HE1	1.70	0.53
1:W:288:GLY:HA3	1:W:403:TRP:HB3	1.90	0.53
1:X:288:GLY:HA3	1:X:403:TRP:HB3	1.90	0.53
1:e:34:THR:HG21	1:e:228:GLY:O	2.08	0.53
1:f:272:ASP:HB2	1:h:339:TRP:CH2	2.43	0.53
1:f:320:PRO:HA	1:f:333:GLU:O	2.08	0.53
1:f:368:THR:HB	1:f:371:LEU:HD12	1.90	0.53
1:g:72:LYS:HD3	1:g:202:GLN:O	2.08	0.53
1:g:192:THR:HG23	1:h:259:PRO:HG3	1.90	0.53
1:k:66:TYR:OH	1:k:217:LEU:N	2.42	0.53
1:n:478:HIS:HE1	1:n:528:SER:O	1.91	0.53
1:q:72:LYS:HD3	1:q:202:GLN:O	2.08	0.53
1:q:368:THR:HB	1:q:371:LEU:HD12	1.90	0.53
1:t:34:THR:HG21	1:t:228:GLY:O	2.08	0.53
1:t:269:ARG:CZ	1:u:298:ALA:O	2.56	0.53
1:u:246:ASN:HA	1:u:525:LYS:H	1.73	0.53
1:u:256:ARG:HG2	1:v:168:LEU:HB2	1.90	0.53
1:u:259:PRO:HG3	1:v:192:THR:HG23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:368:THR:HB	1:v:371:LEU:HD12	1.90	0.53
1:w:66:TYR:OH	1:w:217:LEU:N	2.42	0.53
1:w:118:SER:HB3	1:w:247:THR:HG23	1.89	0.53
1:y:288:GLY:HA3	1:y:403:TRP:HB3	1.90	0.53
1:z:298:ALA:O	1:2:269:ARG:CZ	2.54	0.53
1:1:238:ASP:HB3	1:1:240:ASP:OD1	2.08	0.53
1:1:246:ASN:HA	1:1:525:LYS:H	1.73	0.53
1:1:274:LEU:N	1:1:274:LEU:HD13	2.22	0.53
1:1:368:THR:HB	1:1:371:LEU:HD12	1.90	0.53
1:2:118:SER:HB3	1:2:247:THR:HG23	1.89	0.53
1:2:246:ASN:HA	1:2:525:LYS:H	1.73	0.53
1:3:192:THR:HG23	1:4:259:PRO:HG3	1.90	0.53
1:6:71:ASN:OD1	1:6:82:ASN:HB3	2.07	0.53
1:6:72:LYS:HD3	1:6:202:GLN:O	2.08	0.53
1:6:256:ARG:HG2	1:7:168:LEU:HB2	1.90	0.53
1:6:274:LEU:HD13	1:6:274:LEU:N	2.22	0.53
1:8:74:ASN:HB2	1:8:85:ALA:HB2	1.89	0.53
1:B:34:THR:HG21	1:B:228:GLY:O	2.08	0.53
1:D:405:ARG:O	1:D:525:LYS:HE3	2.08	0.53
1:E:256:ARG:HG2	1:Q:168:LEU:HB2	1.90	0.53
1:E:272:ASP:HB2	1:Q:339:TRP:CH2	2.43	0.53
1:F:458:TYR:OH	1:R:347:ASN:HB2	2.08	0.53
1:H:347:ASN:HB2	1:I:458:TYR:OH	2.08	0.53
1:I:478:HIS:HE1	1:I:528:SER:O	1.91	0.53
1:J:66:TYR:OH	1:J:217:LEU:N	2.42	0.53
1:K:259:PRO:HG3	1:a:192:THR:HG23	1.90	0.53
1:N:66:TYR:OH	1:N:217:LEU:N	2.42	0.53
1:N:347:ASN:HB2	1:m:458:TYR:OH	2.08	0.53
1:O:74:ASN:HB2	1:O:85:ALA:HB2	1.89	0.53
1:O:320:PRO:HA	1:O:333:GLU:O	2.08	0.53
1:P:66:TYR:OH	1:P:217:LEU:N	2.42	0.53
1:P:72:LYS:HD3	1:P:202:GLN:O	2.08	0.53
1:P:246:ASN:HA	1:P:525:LYS:H	1.73	0.53
1:P:288:GLY:HA3	1:P:403:TRP:HB3	1.90	0.53
1:P:320:PRO:HA	1:P:333:GLU:O	2.08	0.53
1:R:72:LYS:HD3	1:R:202:GLN:O	2.08	0.53
1:T:34:THR:HG21	1:T:228:GLY:O	2.08	0.53
1:T:458:TYR:OH	1:i:347:ASN:HB2	2.08	0.53
1:W:256:ARG:HG2	1:Y:168:LEU:HB2	1.90	0.53
1:W:272:ASP:HB2	1:Y:339:TRP:CH2	2.43	0.53
1:Z:72:LYS:HD3	1:Z:202:GLN:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:320:PRO:HA	1:b:333:GLU:O	2.08	0.53
1:b:368:THR:HB	1:b:371:LEU:HD12	1.90	0.53
1:c:34:THR:HG21	1:c:228:GLY:O	2.08	0.53
1:d:405:ARG:O	1:d:525:LYS:HE3	2.08	0.53
1:d:478:HIS:HE1	1:d:528:SER:O	1.91	0.53
1:f:328:GLU:HG3	1:f:331:LYS:CG	2.36	0.53
1:i:272:ASP:HB2	1:j:339:TRP:CH2	2.43	0.53
1:j:66:TYR:OH	1:j:217:LEU:N	2.42	0.53
1:l:66:TYR:OH	1:l:217:LEU:N	2.42	0.53
1:l:320:PRO:HA	1:l:333:GLU:O	2.08	0.53
1:o:118:SER:HB3	1:o:247:THR:HG23	1.89	0.53
1:p:72:LYS:HD3	1:p:202:GLN:O	2.08	0.53
1:q:34:THR:HG21	1:q:228:GLY:O	2.08	0.53
1:q:259:PRO:HG3	1:r:192:THR:HG23	1.90	0.53
1:r:34:THR:HG21	1:r:228:GLY:O	2.08	0.53
1:t:168:LEU:HB2	1:v:256:ARG:HG2	1.89	0.53
1:t:256:ARG:HG2	1:u:168:LEU:HB2	1.89	0.53
1:t:274:LEU:HD13	1:t:274:LEU:N	2.22	0.53
1:t:320:PRO:HA	1:t:333:GLU:O	2.08	0.53
1:u:66:TYR:O	1:5:507:GLY:HA2	2.07	0.53
1:u:478:HIS:HE1	1:u:528:SER:O	1.91	0.53
1:v:327:ALA:CB	1:v:377:ARG:NH2	2.70	0.53
1:w:238:ASP:HB3	1:w:240:ASP:OD1	2.08	0.53
1:w:368:THR:HB	1:w:371:LEU:HD12	1.90	0.53
1:w:478:HIS:HE1	1:w:528:SER:O	1.91	0.53
1:x:478:HIS:HE1	1:x:528:SER:O	1.91	0.53
1:y:320:PRO:HA	1:y:333:GLU:O	2.08	0.53
1:z:478:HIS:HE1	1:z:528:SER:O	1.91	0.53
1:2:66:TYR:OH	1:2:217:LEU:N	2.42	0.53
1:5:478:HIS:HE1	1:5:528:SER:O	1.91	0.53
1:8:29:GLY:N	1:8:32:GLU:OE2	2.39	0.53
1:8:72:LYS:HD3	1:8:202:GLN:O	2.08	0.53
1:8:478:HIS:HE1	1:8:528:SER:O	1.91	0.53
1:A:238:ASP:HB3	1:A:240:ASP:OD1	2.08	0.53
1:A:265:GLN:HB3	1:G:431:MET:HE1	1.91	0.53
1:B:246:ASN:HA	1:B:525:LYS:H	1.73	0.53
1:C:238:ASP:HB3	1:C:240:ASP:OD1	2.08	0.53
1:D:64:ASP:OD1	1:D:446:LYS:NZ	2.38	0.53
1:E:259:PRO:HG3	1:Q:192:THR:HG23	1.90	0.53
1:G:274:LEU:N	1:G:274:LEU:HD13	2.22	0.53
1:H:478:HIS:HE1	1:H:528:SER:O	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:246:ASN:HA	1:J:525:LYS:H	1.73	0.53
1:L:238:ASP:HB3	1:L:240:ASP:OD1	2.08	0.53
1:M:339:TRP:CH2	1:b:272:ASP:HB2	2.43	0.53
1:M:458:TYR:OH	1:c:347:ASN:HB2	2.08	0.53
1:O:64:ASP:OD1	1:O:446:LYS:NZ	2.38	0.53
1:Q:478:HIS:HE1	1:Q:528:SER:O	1.91	0.53
1:R:66:TYR:OH	1:R:217:LEU:N	2.42	0.53
1:T:118:SER:HB3	1:T:247:THR:HG23	1.89	0.53
1:U:157:PHE:CZ	1:U:444:PHE:CD2	2.97	0.53
1:V:72:LYS:HD3	1:V:202:GLN:O	2.08	0.53
1:Z:192:THR:HG23	1:3:259:PRO:HG3	1.90	0.53
1:Z:478:HIS:HE1	1:Z:528:SER:O	1.91	0.53
1:a:165:PRO:O	1:a:189:TYR:OH	2.20	0.53
1:a:259:PRO:HG3	1:8:192:THR:HG23	1.90	0.53
1:e:347:ASN:HB2	1:h:458:TYR:OH	2.08	0.53
1:g:238:ASP:HB3	1:g:240:ASP:OD1	2.08	0.53
1:j:72:LYS:HD3	1:j:202:GLN:O	2.08	0.53
1:j:259:PRO:HG3	1:k:192:THR:HG23	1.90	0.53
1:k:327:ALA:CB	1:k:377:ARG:NH2	2.70	0.53
1:k:405:ARG:O	1:k:525:LYS:HE3	2.08	0.53
1:m:34:THR:HG21	1:m:228:GLY:O	2.08	0.53
1:m:118:SER:HB3	1:m:247:THR:HG23	1.89	0.53
1:o:238:ASP:HB3	1:o:240:ASP:OD1	2.08	0.53
1:p:320:PRO:HA	1:p:333:GLU:O	2.08	0.53
1:q:66:TYR:OH	1:q:217:LEU:N	2.42	0.53
1:q:256:ARG:HG2	1:r:168:LEU:HB2	1.90	0.53
1:q:320:PRO:HA	1:q:333:GLU:O	2.08	0.53
1:q:347:ASN:HB2	1:y:458:TYR:OH	2.08	0.53
1:s:157:PHE:CZ	1:s:444:PHE:CD2	2.97	0.53
1:v:238:ASP:HB3	1:v:240:ASP:OD1	2.08	0.53
1:2:165:PRO:O	1:2:189:TYR:OH	2.20	0.53
1:3:288:GLY:HA3	1:3:403:TRP:HB3	1.89	0.53
1:5:118:SER:HB3	1:5:247:THR:HG23	1.89	0.53
1:6:64:ASP:OD1	1:6:446:LYS:NZ	2.38	0.53
1:6:74:ASN:HB2	1:6:85:ALA:HB2	1.89	0.53
1:A:66:TYR:O	1:B:507:GLY:HA2	2.08	0.53
1:A:405:ARG:O	1:A:525:LYS:HE3	2.08	0.53
1:E:64:ASP:OD1	1:E:446:LYS:NZ	2.38	0.53
1:E:368:THR:HB	1:E:371:LEU:HD12	1.90	0.53
1:F:320:PRO:HA	1:F:333:GLU:O	2.08	0.53
1:G:320:PRO:HA	1:G:333:GLU:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:263:THR:HA	1:W:172:GLN:HA	1.91	0.53
1:J:29:GLY:N	1:J:32:GLU:OE2	2.39	0.53
1:J:72:LYS:HD3	1:J:202:GLN:O	2.08	0.53
1:J:157:PHE:CZ	1:J:444:PHE:CD2	2.97	0.53
1:M:118:SER:HB3	1:M:247:THR:HG23	1.89	0.53
1:M:246:ASN:HA	1:M:525:LYS:H	1.73	0.53
1:O:72:LYS:HD3	1:O:202:GLN:O	2.08	0.53
1:O:172:GLN:HA	1:n:263:THR:HA	1.91	0.53
1:O:238:ASP:HB3	1:O:240:ASP:OD1	2.08	0.53
1:O:507:GLY:HA2	1:P:66:TYR:O	2.08	0.53
1:Q:157:PHE:CZ	1:Q:444:PHE:CD2	2.97	0.53
1:R:259:PRO:HG3	1:S:192:THR:HG23	1.90	0.53
1:R:478:HIS:HE1	1:R:528:SER:O	1.91	0.53
1:S:34:THR:HG21	1:S:228:GLY:O	2.08	0.53
1:S:66:TYR:OH	1:S:217:LEU:N	2.42	0.53
1:S:246:ASN:HA	1:S:525:LYS:H	1.73	0.53
1:V:320:PRO:HA	1:V:333:GLU:O	2.08	0.53
1:W:64:ASP:OD1	1:W:446:LYS:NZ	2.38	0.53
1:X:238:ASP:HB3	1:X:240:ASP:OD1	2.08	0.53
1:Y:320:PRO:HA	1:Y:333:GLU:O	2.08	0.53
1:Z:238:ASP:HB3	1:Z:240:ASP:OD1	2.08	0.53
1:Z:368:THR:HB	1:Z:371:LEU:HD12	1.90	0.53
1:b:34:THR:HG21	1:b:228:GLY:O	2.08	0.53
1:b:66:TYR:OH	1:b:217:LEU:N	2.42	0.53
1:c:118:SER:HB3	1:c:247:THR:HG23	1.89	0.53
1:d:72:LYS:HD3	1:d:202:GLN:O	2.08	0.53
1:f:34:THR:HG21	1:f:228:GLY:O	2.08	0.53
1:f:118:SER:HB3	1:f:247:THR:HG23	1.89	0.53
1:h:311:VAL:O	1:h:314:SER:O	2.27	0.53
1:i:66:TYR:OH	1:i:217:LEU:N	2.42	0.53
1:j:320:PRO:HA	1:j:333:GLU:O	2.08	0.53
1:k:34:THR:HG21	1:k:228:GLY:O	2.08	0.53
1:m:72:LYS:HD3	1:m:202:GLN:O	2.08	0.53
1:n:405:ARG:O	1:n:525:LYS:HE3	2.08	0.53
1:t:118:SER:HB3	1:t:247:THR:HG23	1.89	0.53
1:v:288:GLY:HA3	1:v:403:TRP:HB3	1.90	0.53
1:w:256:ARG:HG2	1:x:168:LEU:HB2	1.90	0.53
1:w:259:PRO:HG3	1:x:192:THR:HG23	1.90	0.53
1:w:268:LEU:N	1:w:280:SER:O	2.38	0.53
1:x:157:PHE:CZ	1:x:444:PHE:CD2	2.97	0.53
1:x:286:LEU:HD13	1:x:398:ILE:HD11	1.85	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:238:ASP:HB3	1:z:240:ASP:OD1	2.08	0.53
1:z:311:VAL:O	1:z:314:SER:O	2.27	0.53
1:1:405:ARG:O	1:1:525:LYS:HE3	2.08	0.53
1:2:29:GLY:N	1:2:32:GLU:OE2	2.39	0.53
1:6:272:ASP:HB2	1:7:339:TRP:CH2	2.43	0.53
1:6:286:LEU:HD13	1:6:398:ILE:HD11	1.85	0.53
1:7:29:GLY:N	1:7:32:GLU:OE2	2.39	0.53
1:7:320:PRO:HA	1:7:333:GLU:O	2.08	0.53
1:8:238:ASP:HB3	1:8:240:ASP:OD1	2.08	0.53
1:8:368:THR:HB	1:8:371:LEU:HD12	1.90	0.53
1:A:151:THR:HG21	1:B:227:THR:HG21	1.91	0.53
1:A:157:PHE:CZ	1:A:444:PHE:CD2	2.97	0.53
1:B:157:PHE:CZ	1:B:444:PHE:CD2	2.97	0.53
1:B:311:VAL:O	1:B:314:SER:O	2.27	0.53
1:B:405:ARG:O	1:B:525:LYS:HE3	2.08	0.53
1:D:192:THR:HG23	1:P:259:PRO:HG3	1.90	0.53
1:D:327:ALA:CB	1:D:377:ARG:NH2	2.70	0.53
1:F:66:TYR:OH	1:F:217:LEU:N	2.42	0.53
1:F:66:TYR:O	1:R:507:GLY:HA2	2.08	0.53
1:G:118:SER:HB3	1:G:247:THR:HG23	1.89	0.53
1:L:311:VAL:O	1:L:314:SER:O	2.27	0.53
1:M:192:THR:HG23	1:b:259:PRO:HG3	1.90	0.53
1:M:238:ASP:HB3	1:M:240:ASP:OD1	2.08	0.53
1:M:311:VAL:O	1:M:314:SER:O	2.27	0.53
1:M:347:ASN:HB2	1:N:458:TYR:OH	2.08	0.53
1:R:274:LEU:N	1:R:274:LEU:HD13	2.22	0.53
1:R:320:PRO:HA	1:R:333:GLU:O	2.08	0.53
1:S:405:ARG:O	1:S:525:LYS:HE3	2.08	0.53
1:T:72:LYS:HD3	1:T:202:GLN:O	2.08	0.53
1:X:66:TYR:OH	1:X:217:LEU:N	2.42	0.53
1:X:320:PRO:HA	1:X:333:GLU:O	2.08	0.53
1:Y:66:TYR:OH	1:Y:217:LEU:N	2.42	0.53
1:Z:172:GLN:HA	1:3:263:THR:HA	1.91	0.53
1:a:66:TYR:OH	1:a:217:LEU:N	2.42	0.53
1:a:118:SER:HB3	1:a:247:THR:HG23	1.89	0.53
1:a:263:THR:HA	1:8:172:GLN:HA	1.91	0.53
1:a:405:ARG:O	1:a:525:LYS:HE3	2.09	0.53
1:d:263:THR:HA	1:l:172:GLN:HA	1.91	0.53
1:d:311:VAL:O	1:d:314:SER:O	2.27	0.53
1:f:66:TYR:OH	1:f:217:LEU:N	2.42	0.53
1:h:347:ASN:HB2	1:i:458:TYR:OH	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:72:LYS:HD3	1:l:202:GLN:O	2.08	0.53
1:l:238:ASP:HB3	1:l:240:ASP:OD1	2.08	0.53
1:n:72:LYS:HD3	1:n:202:GLN:O	2.08	0.53
1:q:157:PHE:CZ	1:q:444:PHE:CD2	2.97	0.53
1:q:478:HIS:HE1	1:q:528:SER:O	1.91	0.53
1:r:66:TYR:OH	1:r:217:LEU:N	2.42	0.53
1:r:246:ASN:HA	1:r:525:LYS:H	1.73	0.53
1:t:507:GLY:HA2	1:6:66:TYR:O	2.09	0.53
1:v:157:PHE:CZ	1:v:444:PHE:CD2	2.97	0.53
1:v:478:HIS:HE1	1:v:528:SER:O	1.91	0.53
1:y:66:TYR:OH	1:y:217:LEU:N	2.42	0.53
1:y:478:HIS:HE1	1:y:528:SER:O	1.91	0.53
1:z:256:ARG:HG2	1:1:168:LEU:HB2	1.90	0.53
1:1:157:PHE:CZ	1:1:444:PHE:CD2	2.97	0.53
1:1:311:VAL:O	1:1:314:SER:O	2.27	0.53
1:2:157:PHE:CZ	1:2:444:PHE:CD2	2.97	0.53
1:3:66:TYR:OH	1:3:217:LEU:N	2.42	0.53
1:3:168:LEU:HB2	1:4:256:ARG:HG2	1.90	0.53
1:5:66:TYR:O	1:8:507:GLY:HA2	2.08	0.53
1:5:263:THR:HA	1:6:172:GLN:HA	1.91	0.53
1:A:263:THR:HA	1:G:172:GLN:HA	1.89	0.53
1:A:285:TRP:HD1	1:G:316:MET:HE1	1.73	0.53
1:A:288:GLY:HA3	1:A:403:TRP:HB3	1.90	0.53
1:A:478:HIS:HE1	1:A:528:SER:O	1.91	0.53
1:B:168:LEU:HB2	1:L:256:ARG:HG2	1.90	0.53
1:C:34:THR:HG21	1:C:228:GLY:O	2.08	0.53
1:E:268:LEU:N	1:E:280:SER:O	2.38	0.53
1:G:311:VAL:O	1:G:314:SER:O	2.27	0.53
1:H:66:TYR:O	1:Z:507:GLY:HA2	2.08	0.53
1:K:238:ASP:HB3	1:K:240:ASP:OD1	2.08	0.53
1:K:256:ARG:HG2	1:a:168:LEU:HB2	1.90	0.53
1:K:311:VAL:O	1:K:314:SER:O	2.27	0.53
1:L:66:TYR:OH	1:L:217:LEU:N	2.42	0.53
1:M:288:GLY:HA3	1:M:403:TRP:HB3	1.90	0.53
1:M:405:ARG:O	1:M:525:LYS:HE3	2.08	0.53
1:Q:286:LEU:HD13	1:Q:398:ILE:HD11	1.85	0.53
1:R:157:PHE:CZ	1:R:444:PHE:CD2	2.97	0.53
1:R:172:GLN:HA	1:U:263:THR:HA	1.91	0.53
1:T:263:THR:HA	1:d:172:GLN:HA	1.91	0.53
1:U:478:HIS:HE1	1:U:528:SER:O	1.91	0.53
1:W:66:TYR:OH	1:W:217:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:405:ARG:O	1:W:525:LYS:HE3	2.08	0.53
1:X:246:ASN:HA	1:X:525:LYS:H	1.73	0.53
1:a:157:PHE:CZ	1:a:444:PHE:CD2	2.97	0.53
1:a:288:GLY:HA3	1:a:403:TRP:HB3	1.90	0.53
1:b:72:LYS:HD3	1:b:202:GLN:O	2.08	0.53
1:b:118:SER:HB3	1:b:247:THR:HG23	1.89	0.53
1:b:478:HIS:HE1	1:b:528:SER:O	1.91	0.53
1:c:259:PRO:HG3	1:o:192:THR:HG23	1.90	0.53
1:d:274:LEU:HD13	1:d:274:LEU:N	2.22	0.53
1:g:34:THR:HG21	1:g:228:GLY:O	2.08	0.53
1:g:274:LEU:N	1:g:274:LEU:HD13	2.22	0.53
1:h:246:ASN:HA	1:h:525:LYS:H	1.73	0.53
1:h:288:GLY:HA3	1:h:403:TRP:HB3	1.90	0.53
1:h:405:ARG:O	1:h:525:LYS:HE3	2.08	0.53
1:i:157:PHE:CZ	1:i:444:PHE:CD2	2.97	0.53
1:j:66:TYR:O	1:l:507:GLY:HA2	2.08	0.53
1:n:311:VAL:O	1:n:314:SER:O	2.27	0.53
1:o:66:TYR:OH	1:o:217:LEU:N	2.42	0.53
1:o:507:GLY:HA2	1:7:66:TYR:O	2.07	0.53
1:q:172:GLN:HA	1:s:263:THR:HA	1.91	0.53
1:q:246:ASN:HA	1:q:525:LYS:H	1.73	0.53
1:r:405:ARG:O	1:r:525:LYS:HE3	2.08	0.53
1:s:478:HIS:HE1	1:s:528:SER:O	1.91	0.53
1:t:311:VAL:O	1:t:314:SER:O	2.27	0.53
1:v:405:ARG:O	1:v:525:LYS:HE3	2.08	0.53
1:w:64:ASP:OD1	1:w:446:LYS:NZ	2.38	0.53
1:y:405:ARG:O	1:y:525:LYS:HE3	2.08	0.53
1:z:66:TYR:OH	1:z:217:LEU:N	2.42	0.53
1:2:72:LYS:HD3	1:2:202:GLN:O	2.08	0.53
1:3:157:PHE:CZ	1:3:444:PHE:CD2	2.97	0.53
1:3:405:ARG:O	1:3:525:LYS:HE3	2.08	0.53
1:4:311:VAL:O	1:4:314:SER:O	2.27	0.53
1:6:405:ARG:O	1:6:525:LYS:HE3	2.09	0.53
1:7:66:TYR:OH	1:7:217:LEU:N	2.42	0.53
1:8:246:ASN:HA	1:8:525:LYS:H	1.73	0.53
1:C:118:SER:HB3	1:C:247:THR:HG23	1.89	0.53
1:C:274:LEU:N	1:C:274:LEU:HD13	2.22	0.53
1:D:34:THR:HG21	1:D:228:GLY:O	2.08	0.53
1:E:192:THR:HG23	1:F:259:PRO:HG3	1.90	0.53
1:F:246:ASN:HA	1:F:525:LYS:H	1.73	0.53
1:F:478:HIS:HE1	1:F:528:SER:O	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:219:GLU:CA	1:Z:39:CYS:HB2	2.34	0.53
1:H:259:PRO:HG3	1:W:192:THR:HG23	1.90	0.53
1:L:238:ASP:O	1:L:241:THR:OG1	2.21	0.53
1:M:478:HIS:HE1	1:M:528:SER:O	1.91	0.53
1:N:157:PHE:CZ	1:N:444:PHE:CD2	2.97	0.53
1:O:311:VAL:O	1:O:314:SER:O	2.27	0.53
1:O:368:THR:HB	1:O:371:LEU:HD12	1.90	0.53
1:P:478:HIS:HE1	1:P:528:SER:O	1.91	0.53
1:R:238:ASP:HB3	1:R:240:ASP:OD1	2.08	0.53
1:T:311:VAL:O	1:T:314:SER:O	2.27	0.53
1:T:478:HIS:HE1	1:T:528:SER:O	1.91	0.53
1:U:238:ASP:HB3	1:U:240:ASP:OD1	2.08	0.53
1:X:168:LEU:HB2	1:e:256:ARG:HG2	1.90	0.53
1:X:192:THR:HG23	1:e:259:PRO:HG3	1.90	0.53
1:X:507:GLY:HA2	1:Y:66:TYR:O	2.07	0.53
1:Y:29:GLY:N	1:Y:32:GLU:OE2	2.39	0.53
1:Y:368:THR:HB	1:Y:371:LEU:HD12	1.90	0.53
1:Z:246:ASN:HA	1:Z:525:LYS:H	1.73	0.53
1:c:238:ASP:HB3	1:c:240:ASP:OD1	2.08	0.53
1:d:288:GLY:HA3	1:d:403:TRP:HB3	1.89	0.53
1:e:118:SER:HB3	1:e:247:THR:HG23	1.89	0.53
1:f:72:LYS:HD3	1:f:202:GLN:O	2.08	0.53
1:f:288:GLY:HA3	1:f:403:TRP:HB3	1.90	0.53
1:h:118:SER:HB3	1:h:247:THR:HG23	1.89	0.53
1:h:238:ASP:HB3	1:h:240:ASP:OD1	2.08	0.53
1:i:246:ASN:HA	1:i:525:LYS:H	1.73	0.53
1:l:311:VAL:O	1:l:314:SER:O	2.27	0.53
1:n:288:GLY:HA3	1:n:403:TRP:HB3	1.90	0.53
1:o:320:PRO:HA	1:o:333:GLU:O	2.08	0.53
1:p:478:HIS:HE1	1:p:528:SER:O	1.91	0.53
1:q:507:GLY:HA2	1:y:66:TYR:O	2.08	0.53
1:s:238:ASP:HB3	1:s:240:ASP:OD1	2.08	0.53
1:v:320:PRO:HA	1:v:333:GLU:O	2.08	0.53
1:y:246:ASN:HA	1:y:525:LYS:H	1.73	0.53
1:y:368:THR:HB	1:y:371:LEU:HD12	1.90	0.53
1:3:118:SER:HB3	1:3:247:THR:HG23	1.89	0.53
1:6:66:TYR:OH	1:6:217:LEU:N	2.42	0.53
1:6:263:THR:HA	1:7:172:GLN:HA	1.91	0.53
1:7:368:THR:HB	1:7:371:LEU:HD12	1.90	0.53
1:8:64:ASP:OD1	1:8:446:LYS:NZ	2.38	0.53
1:A:168:LEU:HB2	1:I:256:ARG:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:368:THR:HB	1:F:371:LEU:HD12	1.90	0.53
1:F:405:ARG:O	1:F:525:LYS:HE3	2.08	0.53
1:H:288:GLY:HA3	1:H:403:TRP:HB3	1.90	0.53
1:I:368:THR:HB	1:I:371:LEU:HD12	1.90	0.53
1:N:72:LYS:HD3	1:N:202:GLN:O	2.08	0.53
1:N:165:PRO:O	1:N:189:TYR:OH	2.20	0.53
1:N:246:ASN:HA	1:N:525:LYS:H	1.73	0.53
1:N:478:HIS:HE1	1:N:528:SER:O	1.91	0.53
1:O:347:ASN:HB2	1:P:458:TYR:OH	2.09	0.53
1:O:405:ARG:O	1:O:525:LYS:HE3	2.08	0.53
1:Q:311:VAL:O	1:Q:314:SER:O	2.27	0.53
1:R:246:ASN:HA	1:R:525:LYS:H	1.73	0.53
1:V:311:VAL:O	1:V:314:SER:O	2.27	0.53
1:W:157:PHE:CZ	1:W:444:PHE:CD2	2.97	0.53
1:Z:34:THR:HG21	1:Z:228:GLY:O	2.08	0.53
1:Z:157:PHE:CZ	1:Z:444:PHE:CD2	2.97	0.53
1:b:288:GLY:HA3	1:b:403:TRP:HB3	1.90	0.53
1:b:311:VAL:O	1:b:314:SER:O	2.27	0.53
1:c:256:ARG:HG2	1:o:168:LEU:HB2	1.90	0.53
1:c:311:VAL:O	1:c:314:SER:O	2.27	0.53
1:e:238:ASP:HB3	1:e:240:ASP:OD1	2.08	0.53
1:e:311:VAL:O	1:e:314:SER:O	2.27	0.53
1:f:259:PRO:HG3	1:h:192:THR:HG23	1.90	0.53
1:f:286:LEU:HD13	1:f:398:ILE:HD11	1.85	0.53
1:f:478:HIS:HE1	1:f:528:SER:O	1.91	0.53
1:g:118:SER:HB3	1:g:247:THR:HG23	1.89	0.53
1:h:478:HIS:HE1	1:h:528:SER:O	1.91	0.53
1:i:72:LYS:HD3	1:i:202:GLN:O	2.08	0.53
1:k:478:HIS:HE1	1:k:528:SER:O	1.91	0.53
1:l:368:THR:HB	1:l:371:LEU:HD12	1.90	0.53
1:m:263:THR:HA	1:n:172:GLN:HA	1.91	0.53
1:m:478:HIS:HE1	1:m:528:SER:O	1.91	0.53
1:n:274:LEU:N	1:n:274:LEU:HD13	2.22	0.53
1:o:246:ASN:HA	1:o:525:LYS:H	1.73	0.53
1:q:274:LEU:N	1:q:274:LEU:HD13	2.22	0.53
1:t:157:PHE:CZ	1:t:444:PHE:CD2	2.97	0.53
1:u:368:THR:HB	1:u:371:LEU:HD12	1.90	0.53
1:w:320:PRO:HA	1:w:333:GLU:O	2.08	0.53
1:x:368:THR:HB	1:x:371:LEU:HD12	1.90	0.53
1:2:405:ARG:O	1:2:525:LYS:HE3	2.08	0.53
1:3:172:GLN:HA	1:4:263:THR:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:238:ASP:HB3	1:4:240:ASP:OD1	2.08	0.53
1:5:157:PHE:CZ	1:5:444:PHE:CD2	2.97	0.53
1:5:288:GLY:HA3	1:5:403:TRP:HB3	1.89	0.53
1:8:157:PHE:CZ	1:8:444:PHE:CD2	2.97	0.53
1:A:311:VAL:O	1:A:314:SER:O	2.27	0.52
1:A:320:PRO:HA	1:A:333:GLU:O	2.08	0.52
1:B:72:LYS:HD3	1:B:202:GLN:O	2.08	0.52
1:F:192:THR:HG23	1:Q:259:PRO:HG3	1.90	0.52
1:G:157:PHE:CZ	1:G:444:PHE:CD2	2.97	0.52
1:H:157:PHE:CZ	1:H:444:PHE:CD2	2.97	0.52
1:J:311:VAL:O	1:J:314:SER:O	2.27	0.52
1:K:263:THR:HA	1:a:172:GLN:HA	1.91	0.52
1:L:72:LYS:HD3	1:L:202:GLN:O	2.08	0.52
1:L:320:PRO:HA	1:L:333:GLU:O	2.08	0.52
1:N:368:THR:HB	1:N:371:LEU:HD12	1.90	0.52
1:P:302:ASN:O	1:P:305:THR:OG1	2.08	0.52
1:Q:368:THR:HB	1:Q:371:LEU:HD12	1.90	0.52
1:S:157:PHE:CZ	1:S:444:PHE:CD2	2.97	0.52
1:T:29:GLY:N	1:T:32:GLU:OE2	2.39	0.52
1:V:478:HIS:HE1	1:V:528:SER:O	1.91	0.52
1:W:286:LEU:HD13	1:W:398:ILE:HD11	1.85	0.52
1:Y:72:LYS:HD3	1:Y:202:GLN:O	2.08	0.52
1:Y:405:ARG:O	1:Y:525:LYS:HE3	2.08	0.52
1:Z:64:ASP:OD1	1:Z:446:LYS:NZ	2.38	0.52
1:b:238:ASP:HB3	1:b:240:ASP:OD1	2.08	0.52
1:b:246:ASN:HA	1:b:525:LYS:H	1.73	0.52
1:c:157:PHE:CZ	1:c:444:PHE:CD2	2.97	0.52
1:e:157:PHE:CZ	1:e:444:PHE:CD2	2.97	0.52
1:h:34:THR:HG21	1:h:228:GLY:O	2.08	0.52
1:i:368:THR:HB	1:i:371:LEU:HD12	1.90	0.52
1:i:478:HIS:HE1	1:i:528:SER:O	1.91	0.52
1:j:265:GLN:HB3	1:k:431:MET:HE1	1.92	0.52
1:j:478:HIS:HE1	1:j:528:SER:O	1.91	0.52
1:l:405:ARG:O	1:l:525:LYS:HE3	2.08	0.52
1:m:29:GLY:N	1:m:32:GLU:OE2	2.39	0.52
1:m:311:VAL:O	1:m:314:SER:O	2.27	0.52
1:p:246:ASN:HA	1:p:525:LYS:H	1.73	0.52
1:p:311:VAL:O	1:p:314:SER:O	2.27	0.52
1:q:238:ASP:HB3	1:q:240:ASP:OD1	2.08	0.52
1:r:157:PHE:CZ	1:r:444:PHE:CD2	2.97	0.52
1:r:263:THR:HA	1:s:172:GLN:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:218:ASP:O	1:5:37:TRP:NE1	2.42	0.52
1:v:311:VAL:O	1:v:314:SER:O	2.27	0.52
1:w:157:PHE:CZ	1:w:444:PHE:CD2	2.97	0.52
1:w:238:ASP:O	1:w:241:THR:OG1	2.21	0.52
1:x:311:VAL:O	1:x:314:SER:O	2.27	0.52
1:z:72:LYS:HD3	1:z:202:GLN:O	2.08	0.52
1:z:368:THR:HB	1:z:371:LEU:HD12	1.90	0.52
1:5:259:PRO:HG3	1:6:192:THR:HG23	1.90	0.52
1:6:157:PHE:CZ	1:6:444:PHE:CD2	2.97	0.52
1:C:478:HIS:HE1	1:C:528:SER:O	1.91	0.52
1:D:157:PHE:CZ	1:D:444:PHE:CD2	2.97	0.52
1:D:263:THR:HA	1:N:172:GLN:HA	1.91	0.52
1:D:431:MET:HE1	1:P:265:GLN:HB3	1.92	0.52
1:D:478:HIS:HE1	1:D:528:SER:O	1.91	0.52
1:E:320:PRO:HA	1:E:333:GLU:O	2.08	0.52
1:G:347:ASN:HB2	1:W:458:TYR:OH	2.08	0.52
1:H:37:TRP:NE1	1:I:218:ASP:O	2.42	0.52
1:J:405:ARG:O	1:J:525:LYS:HE3	2.08	0.52
1:L:368:THR:HB	1:L:371:LEU:HD12	1.90	0.52
1:M:34:THR:HG21	1:M:228:GLY:O	2.08	0.52
1:N:34:THR:HG21	1:N:228:GLY:O	2.08	0.52
1:O:165:PRO:O	1:O:189:TYR:OH	2.20	0.52
1:Q:29:GLY:N	1:Q:32:GLU:OE2	2.39	0.52
1:Q:72:LYS:HD3	1:Q:202:GLN:O	2.08	0.52
1:R:98:TYR:C	1:R:175:MET:HE1	2.35	0.52
1:S:263:THR:HA	1:U:172:GLN:HA	1.91	0.52
1:S:320:PRO:HA	1:S:333:GLU:O	2.08	0.52
1:V:157:PHE:CZ	1:V:444:PHE:CD2	2.97	0.52
1:V:172:GLN:HA	1:X:263:THR:HA	1.91	0.52
1:W:238:ASP:O	1:W:241:THR:OG1	2.21	0.52
1:W:263:THR:HA	1:Y:172:GLN:HA	1.91	0.52
1:Z:168:LEU:HB2	1:3:256:ARG:HG2	1.90	0.52
1:a:256:ARG:HG2	1:8:168:LEU:HB2	1.90	0.52
1:b:98:TYR:C	1:b:175:MET:HE1	2.35	0.52
1:b:286:LEU:HD13	1:b:398:ILE:HD11	1.85	0.52
1:f:98:TYR:C	1:f:175:MET:HE1	2.35	0.52
1:f:246:ASN:HA	1:f:525:LYS:H	1.73	0.52
1:f:311:VAL:O	1:f:314:SER:O	2.27	0.52
1:i:172:GLN:HA	1:k:263:THR:HA	1.91	0.52
1:j:256:ARG:HG2	1:k:168:LEU:HB2	1.90	0.52
1:k:157:PHE:CZ	1:k:444:PHE:CD2	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:478:HIS:HE1	1:l:528:SER:O	1.91	0.52
1:m:37:TRP:NE1	1:s:218:ASP:O	2.42	0.52
1:q:98:TYR:C	1:q:175:MET:HE1	2.35	0.52
1:q:405:ARG:O	1:q:525:LYS:HE3	2.08	0.52
1:u:98:TYR:C	1:u:175:MET:HE1	2.35	0.52
1:u:320:PRO:HA	1:u:333:GLU:O	2.08	0.52
1:w:192:THR:HG23	1:y:259:PRO:HG3	1.90	0.52
1:x:29:GLY:N	1:x:32:GLU:OE2	2.39	0.52
1:x:72:LYS:HD3	1:x:202:GLN:O	2.08	0.52
1:y:118:SER:HB3	1:y:247:THR:HG23	1.89	0.52
1:y:286:LEU:HD13	1:y:398:ILE:HD11	1.85	0.52
1:z:172:GLN:HA	1:2:263:THR:HA	1.91	0.52
1:1:256:ARG:HG2	1:2:168:LEU:HB2	1.90	0.52
1:2:311:VAL:O	1:2:314:SER:O	2.27	0.52
1:8:34:THR:HG21	1:8:228:GLY:O	2.08	0.52
1:A:219:GLU:CA	1:B:39:CYS:HB2	2.32	0.52
1:A:314:SER:HB2	1:I:254:PHE:CZ	2.44	0.52
1:B:165:PRO:O	1:B:189:TYR:OH	2.20	0.52
1:B:256:ARG:HG2	1:J:168:LEU:HB2	1.90	0.52
1:E:157:PHE:CZ	1:E:444:PHE:CD2	2.97	0.52
1:F:118:SER:HB3	1:F:247:THR:HG23	1.89	0.52
1:H:246:ASN:HA	1:H:525:LYS:H	1.73	0.52
1:I:98:TYR:C	1:I:175:MET:HE1	2.35	0.52
1:J:263:THR:HA	1:L:172:GLN:HA	1.91	0.52
1:K:368:THR:HB	1:K:371:LEU:HD12	1.90	0.52
1:Q:238:ASP:HB3	1:Q:240:ASP:OD1	2.08	0.52
1:R:405:ARG:O	1:R:525:LYS:HE3	2.08	0.52
1:T:37:TRP:NE1	1:U:218:ASP:O	2.42	0.52
1:T:98:TYR:C	1:T:175:MET:HE1	2.35	0.52
1:T:307:PRO:HB3	1:l:382:ALA:HA	1.92	0.52
1:T:320:PRO:HA	1:T:333:GLU:O	2.08	0.52
1:V:246:ASN:HA	1:V:525:LYS:H	1.73	0.52
1:W:368:THR:HB	1:W:371:LEU:HD12	1.90	0.52
1:X:157:PHE:CZ	1:X:444:PHE:CD2	2.97	0.52
1:Z:66:TYR:OH	1:Z:217:LEU:N	2.42	0.52
1:Z:405:ARG:O	1:Z:525:LYS:HE3	2.08	0.52
1:b:157:PHE:CZ	1:b:444:PHE:CD2	2.97	0.52
1:f:157:PHE:CZ	1:f:444:PHE:CD2	2.97	0.52
1:f:238:ASP:HB3	1:f:240:ASP:OD1	2.08	0.52
1:i:34:THR:HG21	1:i:228:GLY:O	2.08	0.52
1:i:98:TYR:C	1:i:175:MET:HE1	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:458:TYR:OH	1:l:347:ASN:HB2	2.09	0.52
1:l:165:PRO:O	1:l:189:TYR:OH	2.20	0.52
1:n:66:TYR:OH	1:n:217:LEU:N	2.42	0.52
1:o:157:PHE:CZ	1:o:444:PHE:CD2	2.97	0.52
1:o:263:THR:HA	1:p:172:GLN:HA	1.91	0.52
1:x:238:ASP:HB3	1:x:240:ASP:OD1	2.08	0.52
1:x:259:PRO:HG3	1:y:192:THR:HG23	1.90	0.52
1:y:157:PHE:CZ	1:y:444:PHE:CD2	2.97	0.52
1:z:320:PRO:HA	1:z:333:GLU:O	2.08	0.52
1:1:165:PRO:O	1:1:189:TYR:OH	2.20	0.52
1:4:368:THR:HB	1:4:371:LEU:HD12	1.90	0.52
1:5:219:GLU:CA	1:8:39:CYS:HB2	2.34	0.52
1:5:458:TYR:OH	1:8:347:ASN:HB2	2.09	0.52
1:6:238:ASP:O	1:6:241:THR:OG1	2.21	0.52
1:7:72:LYS:HD3	1:7:202:GLN:O	2.08	0.52
1:7:405:ARG:O	1:7:525:LYS:HE3	2.08	0.52
1:A:277:HIS:CD2	1:G:84:THR:OG1	2.51	0.52
1:B:29:GLY:N	1:B:32:GLU:OE2	2.39	0.52
1:C:405:ARG:O	1:C:525:LYS:HE3	2.08	0.52
1:F:157:PHE:CZ	1:F:444:PHE:CD2	2.97	0.52
1:I:157:PHE:CZ	1:I:444:PHE:CD2	2.97	0.52
1:I:405:ARG:O	1:I:525:LYS:HE3	2.09	0.52
1:J:238:ASP:CB	1:J:240:ASP:OD1	2.58	0.52
1:K:478:HIS:HE1	1:K:528:SER:O	1.91	0.52
1:M:66:TYR:OH	1:M:217:LEU:N	2.42	0.52
1:M:157:PHE:CZ	1:M:444:PHE:CD2	2.97	0.52
1:N:98:TYR:C	1:N:175:MET:HE1	2.35	0.52
1:O:382:ALA:HA	1:m:307:PRO:HB3	1.92	0.52
1:O:478:HIS:HE1	1:O:528:SER:O	1.91	0.52
1:V:98:TYR:C	1:V:175:MET:HE1	2.35	0.52
1:a:72:LYS:HD3	1:a:202:GLN:O	2.08	0.52
1:d:66:TYR:OH	1:d:217:LEU:N	2.42	0.52
1:g:478:HIS:HE1	1:g:528:SER:O	1.91	0.52
1:i:165:PRO:O	1:i:189:TYR:OH	2.20	0.52
1:j:29:GLY:N	1:j:32:GLU:OE2	2.39	0.52
1:j:263:THR:HA	1:k:172:GLN:HA	1.91	0.52
1:j:302:ASN:O	1:j:305:THR:OG1	2.08	0.52
1:m:66:TYR:OH	1:m:217:LEU:N	2.42	0.52
1:m:98:TYR:C	1:m:175:MET:HE1	2.35	0.52
1:p:98:TYR:C	1:p:175:MET:HE1	2.35	0.52
1:p:157:PHE:CZ	1:p:444:PHE:CD2	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:320:PRO:HA	1:r:333:GLU:O	2.08	0.52
1:s:286:LEU:HD13	1:s:398:ILE:HD11	1.85	0.52
1:u:157:PHE:CZ	1:u:444:PHE:CD2	2.97	0.52
1:u:265:GLN:HB3	1:v:431:MET:HE1	1.92	0.52
1:v:98:TYR:C	1:v:175:MET:HE1	2.35	0.52
1:w:263:THR:HA	1:x:172:GLN:HA	1.91	0.52
1:1:72:LYS:HD3	1:1:202:GLN:O	2.08	0.52
1:2:98:TYR:C	1:2:175:MET:HE1	2.35	0.52
1:2:238:ASP:CB	1:2:240:ASP:OD1	2.58	0.52
1:3:72:LYS:HD3	1:3:202:GLN:O	2.08	0.52
1:3:238:ASP:CB	1:3:240:ASP:OD1	2.58	0.52
1:3:311:VAL:O	1:3:314:SER:O	2.27	0.52
1:5:98:TYR:C	1:5:175:MET:HE1	2.35	0.52
1:8:66:TYR:OH	1:8:217:LEU:N	2.42	0.52
1:8:405:ARG:O	1:8:525:LYS:HE3	2.08	0.52
1:A:98:TYR:C	1:A:175:MET:HE1	2.35	0.52
1:A:192:THR:HG23	1:I:259:PRO:HG3	1.91	0.52
1:B:66:TYR:OH	1:B:217:LEU:N	2.42	0.52
1:B:172:GLN:HA	1:L:263:THR:HA	1.91	0.52
1:B:268:LEU:N	1:B:280:SER:O	2.38	0.52
1:B:431:MET:HE1	1:L:265:GLN:HB3	1.92	0.52
1:C:66:TYR:OH	1:C:217:LEU:N	2.42	0.52
1:C:157:PHE:CZ	1:C:444:PHE:CD2	2.97	0.52
1:C:431:MET:HE1	1:M:265:GLN:HB3	1.92	0.52
1:D:168:LEU:HB2	1:P:256:ARG:HG2	1.90	0.52
1:D:172:GLN:HA	1:P:263:THR:HA	1.91	0.52
1:E:238:ASP:CB	1:E:240:ASP:OD1	2.58	0.52
1:E:246:ASN:HA	1:E:525:LYS:H	1.73	0.52
1:E:263:THR:HA	1:Q:172:GLN:HA	1.91	0.52
1:F:37:TRP:NE1	1:G:218:ASP:O	2.42	0.52
1:F:286:LEU:HD13	1:F:398:ILE:HD11	1.85	0.52
1:G:256:ARG:HG2	1:I:168:LEU:HB2	1.90	0.52
1:G:263:THR:HA	1:I:172:GLN:HA	1.91	0.52
1:H:64:ASP:OD1	1:H:446:LYS:NZ	2.38	0.52
1:H:458:TYR:OH	1:Z:347:ASN:HB2	2.09	0.52
1:I:320:PRO:HA	1:I:333:GLU:O	2.08	0.52
1:J:98:TYR:C	1:J:175:MET:HE1	2.35	0.52
1:L:157:PHE:CZ	1:L:444:PHE:CD2	2.97	0.52
1:L:238:ASP:CB	1:L:240:ASP:OD1	2.58	0.52
1:P:29:GLY:N	1:P:32:GLU:OE2	2.39	0.52
1:T:66:TYR:OH	1:T:217:LEU:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:286:LEU:HD13	1:U:398:ILE:HD11	1.85	0.52
1:V:238:ASP:CB	1:V:240:ASP:OD1	2.58	0.52
1:W:308:GLY:HA3	1:W:317:GLY:HA2	1.92	0.52
1:X:311:VAL:O	1:X:314:SER:O	2.27	0.52
1:a:238:ASP:CB	1:a:240:ASP:OD1	2.58	0.52
1:a:311:VAL:O	1:a:314:SER:O	2.27	0.52
1:c:98:TYR:C	1:c:175:MET:HE1	2.35	0.52
1:e:66:TYR:OH	1:e:217:LEU:N	2.42	0.52
1:g:405:ARG:O	1:g:525:LYS:HE3	2.08	0.52
1:g:431:MET:HE1	1:h:265:GLN:HB3	1.92	0.52
1:h:66:TYR:OH	1:h:217:LEU:N	2.42	0.52
1:h:157:PHE:CZ	1:h:444:PHE:CD2	2.97	0.52
1:j:98:TYR:C	1:j:175:MET:HE1	2.35	0.52
1:m:320:PRO:HA	1:m:333:GLU:O	2.08	0.52
1:p:66:TYR:OH	1:p:217:LEU:N	2.42	0.52
1:p:238:ASP:CB	1:p:240:ASP:OD1	2.58	0.52
1:q:311:VAL:O	1:q:314:SER:O	2.27	0.52
1:w:238:ASP:CB	1:w:240:ASP:OD1	2.58	0.52
1:x:405:ARG:O	1:x:525:LYS:HE3	2.08	0.52
1:z:238:ASP:CB	1:z:240:ASP:OD1	2.58	0.52
1:1:29:GLY:N	1:1:32:GLU:OE2	2.39	0.52
1:5:246:ASN:HA	1:5:525:LYS:H	1.73	0.52
1:6:308:GLY:HA3	1:6:317:GLY:HA2	1.92	0.52
1:6:368:THR:HB	1:6:371:LEU:HD12	1.90	0.52
1:D:308:GLY:HA3	1:D:317:GLY:HA2	1.92	0.52
1:F:98:TYR:C	1:F:175:MET:HE1	2.35	0.52
1:G:98:TYR:C	1:G:175:MET:HE1	2.35	0.52
1:H:98:TYR:C	1:H:175:MET:HE1	2.35	0.52
1:H:151:THR:HG21	1:Z:227:THR:HG21	1.92	0.52
1:I:238:ASP:CB	1:I:240:ASP:OD1	2.58	0.52
1:K:307:PRO:HB3	1:8:382:ALA:HA	1.92	0.52
1:M:98:TYR:C	1:M:175:MET:HE1	2.35	0.52
1:O:157:PHE:CZ	1:O:444:PHE:CD2	2.97	0.52
1:O:238:ASP:CB	1:O:240:ASP:OD1	2.58	0.52
1:O:263:THR:HA	1:m:172:GLN:HA	1.91	0.52
1:P:157:PHE:CZ	1:P:444:PHE:CD2	2.97	0.52
1:Q:405:ARG:O	1:Q:525:LYS:HE3	2.08	0.52
1:R:311:VAL:O	1:R:314:SER:O	2.27	0.52
1:T:157:PHE:CZ	1:T:444:PHE:CD2	2.97	0.52
1:T:172:GLN:HA	1:l:263:THR:HA	1.91	0.52
1:U:66:TYR:OH	1:U:217:LEU:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:66:TYR:OH	1:V:217:LEU:N	2.42	0.52
1:V:256:ARG:HG2	1:e:168:LEU:HB2	1.90	0.52
1:X:98:TYR:C	1:X:175:MET:HE1	2.35	0.52
1:X:151:THR:HG21	1:f:227:THR:HG21	1.92	0.52
1:X:268:LEU:N	1:X:280:SER:O	2.38	0.52
1:Y:157:PHE:CZ	1:Y:444:PHE:CD2	2.97	0.52
1:Z:311:VAL:O	1:Z:314:SER:O	2.27	0.52
1:Z:382:ALA:HA	1:4:307:PRO:HB3	1.92	0.52
1:b:227:THR:HG21	1:o:151:THR:HG21	1.92	0.52
1:c:66:TYR:OH	1:c:217:LEU:N	2.42	0.52
1:c:168:LEU:HB2	1:p:256:ARG:HG2	1.90	0.52
1:g:157:PHE:CZ	1:g:444:PHE:CD2	2.97	0.52
1:h:98:TYR:C	1:h:175:MET:HE1	2.35	0.52
1:j:157:PHE:CZ	1:j:444:PHE:CD2	2.97	0.52
1:k:308:GLY:HA3	1:k:317:GLY:HA2	1.92	0.52
1:m:64:ASP:OD1	1:m:446:LYS:NZ	2.38	0.52
1:o:29:GLY:N	1:o:32:GLU:OE2	2.39	0.52
1:o:311:VAL:O	1:o:314:SER:O	2.27	0.52
1:t:98:TYR:C	1:t:175:MET:HE1	2.35	0.52
1:t:265:GLN:HB3	1:u:431:MET:HE1	1.92	0.52
1:u:238:ASP:CB	1:u:240:ASP:OD1	2.58	0.52
1:u:405:ARG:O	1:u:525:LYS:HE3	2.09	0.52
1:y:98:TYR:C	1:y:175:MET:HE1	2.35	0.52
1:z:157:PHE:CZ	1:z:444:PHE:CD2	2.97	0.52
1:z:263:THR:HA	1:1:172:GLN:HA	1.91	0.52
1:1:66:TYR:OH	1:1:217:LEU:N	2.42	0.52
1:1:268:LEU:N	1:1:280:SER:O	2.38	0.52
1:4:478:HIS:HE1	1:4:528:SER:O	1.91	0.52
1:7:157:PHE:CZ	1:7:444:PHE:CD2	2.97	0.52
1:8:311:VAL:O	1:8:314:SER:O	2.27	0.52
1:B:263:THR:HA	1:J:172:GLN:HA	1.91	0.52
1:C:238:ASP:CB	1:C:240:ASP:OD1	2.58	0.52
1:D:311:VAL:O	1:D:314:SER:O	2.27	0.52
1:E:311:VAL:O	1:E:314:SER:O	2.27	0.52
1:E:431:MET:HE1	1:F:265:GLN:HB3	1.92	0.52
1:G:39:CYS:HB2	1:W:219:GLU:CA	2.34	0.52
1:G:157:PHE:HB3	1:G:222:SER:CB	2.40	0.52
1:G:238:ASP:CB	1:G:240:ASP:OD1	2.58	0.52
1:H:238:ASP:CB	1:H:240:ASP:OD1	2.58	0.52
1:J:382:ALA:HA	1:L:307:PRO:HB3	1.92	0.52
1:K:66:TYR:OH	1:K:217:LEU:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:172:GLN:HA	1:8:263:THR:HA	1.91	0.52
1:M:238:ASP:CB	1:M:240:ASP:OD1	2.58	0.52
1:O:168:LEU:HB2	1:n:256:ARG:HG2	1.90	0.52
1:P:98:TYR:C	1:P:175:MET:HE1	2.35	0.52
1:S:157:PHE:HB3	1:S:222:SER:CB	2.40	0.52
1:T:64:ASP:OD1	1:T:446:LYS:NZ	2.38	0.52
1:W:478:HIS:HE1	1:W:528:SER:O	1.91	0.52
1:Y:238:ASP:CB	1:Y:240:ASP:OD1	2.58	0.52
1:a:98:TYR:C	1:a:175:MET:HE1	2.35	0.52
1:b:157:PHE:HB3	1:b:222:SER:CB	2.40	0.52
1:c:238:ASP:CB	1:c:240:ASP:OD1	2.58	0.52
1:e:98:TYR:C	1:e:175:MET:HE1	2.35	0.52
1:e:238:ASP:CB	1:e:240:ASP:OD1	2.58	0.52
1:e:368:THR:HB	1:e:371:LEU:HD12	1.90	0.52
1:f:308:GLY:HA3	1:f:317:GLY:HA2	1.92	0.52
1:g:66:TYR:OH	1:g:217:LEU:N	2.42	0.52
1:g:238:ASP:CB	1:g:240:ASP:OD1	2.58	0.52
1:i:263:THR:HA	1:j:172:GLN:HA	1.91	0.52
1:k:311:VAL:O	1:k:314:SER:O	2.27	0.52
1:l:157:PHE:CZ	1:l:444:PHE:CD2	2.97	0.52
1:l:238:ASP:CB	1:l:240:ASP:OD1	2.58	0.52
1:m:157:PHE:CZ	1:m:444:PHE:CD2	2.97	0.52
1:m:246:ASN:HA	1:m:525:LYS:H	1.73	0.52
1:n:157:PHE:CZ	1:n:444:PHE:CD2	2.97	0.52
1:o:98:TYR:C	1:o:175:MET:HE1	2.35	0.52
1:o:268:LEU:N	1:o:280:SER:O	2.38	0.52
1:p:218:ASP:O	1:6:37:TRP:NE1	2.42	0.52
1:r:157:PHE:HB3	1:r:222:SER:CB	2.40	0.52
1:s:66:TYR:OH	1:s:217:LEU:N	2.42	0.52
1:t:157:PHE:HB3	1:t:222:SER:CB	2.40	0.52
1:t:238:ASP:CB	1:t:240:ASP:OD1	2.58	0.52
1:u:311:VAL:O	1:u:314:SER:O	2.27	0.52
1:v:66:TYR:OH	1:v:217:LEU:N	2.42	0.52
1:w:311:VAL:O	1:w:314:SER:O	2.27	0.52
1:z:265:GLN:HB3	1:1:431:MET:HE1	1.92	0.52
1:z:307:PRO:HB3	1:2:382:ALA:HA	1.92	0.52
1:1:259:PRO:HG3	1:2:192:THR:HG23	1.90	0.52
1:4:66:TYR:OH	1:4:217:LEU:N	2.42	0.52
1:5:64:ASP:OD1	1:5:446:LYS:NZ	2.38	0.52
1:5:151:THR:HG21	1:8:227:THR:HG21	1.92	0.52
1:5:238:ASP:CB	1:5:240:ASP:OD1	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:157:PHE:HB3	1:6:222:SER:CB	2.40	0.52
1:7:238:ASP:CB	1:7:240:ASP:OD1	2.58	0.52
1:B:259:PRO:HG3	1:J:192:THR:HG23	1.90	0.52
1:D:157:PHE:HB3	1:D:222:SER:CB	2.40	0.52
1:E:157:PHE:HB3	1:E:222:SER:CB	2.40	0.52
1:H:431:MET:HE1	1:Y:265:GLN:HB3	1.92	0.52
1:I:311:VAL:O	1:I:314:SER:O	2.27	0.52
1:K:308:GLY:HA3	1:K:317:GLY:HA2	1.92	0.52
1:L:98:TYR:C	1:L:175:MET:HE1	2.35	0.52
1:L:157:PHE:HB3	1:L:222:SER:CB	2.40	0.52
1:P:39:CYS:HB2	1:Q:219:GLU:CA	2.34	0.52
1:P:238:ASP:CB	1:P:240:ASP:OD1	2.58	0.52
1:S:238:ASP:O	1:S:241:THR:OG1	2.21	0.52
1:T:133:GLN:HE21	1:U:151:THR:C	2.18	0.52
1:U:311:VAL:O	1:U:314:SER:O	2.27	0.52
1:W:157:PHE:HB3	1:W:222:SER:CB	2.40	0.52
1:X:308:GLY:HA3	1:X:317:GLY:HA2	1.92	0.52
1:Z:238:ASP:CB	1:Z:240:ASP:OD1	2.58	0.52
1:Z:263:THR:HA	1:4:172:GLN:HA	1.91	0.52
1:b:308:GLY:HA3	1:b:317:GLY:HA2	1.92	0.52
1:c:368:THR:HB	1:c:371:LEU:HD12	1.90	0.52
1:d:157:PHE:CZ	1:d:444:PHE:CD2	2.97	0.52
1:f:157:PHE:HB3	1:f:222:SER:CB	2.40	0.52
1:g:307:PRO:HB3	1:h:382:ALA:HA	1.92	0.52
1:h:238:ASP:CB	1:h:240:ASP:OD1	2.58	0.52
1:j:238:ASP:CB	1:j:240:ASP:OD1	2.58	0.52
1:k:157:PHE:HB3	1:k:222:SER:CB	2.40	0.52
1:o:308:GLY:HA3	1:o:317:GLY:HA2	1.92	0.52
1:q:37:TRP:NE1	1:y:218:ASP:O	2.42	0.52
1:s:311:VAL:O	1:s:314:SER:O	2.27	0.52
1:u:151:THR:HG21	1:5:227:THR:HG21	1.92	0.52
1:w:157:PHE:HB3	1:w:222:SER:CB	2.40	0.52
1:w:172:GLN:HA	1:y:263:THR:HA	1.91	0.52
1:w:246:ASN:HA	1:w:525:LYS:H	1.73	0.52
1:w:431:MET:HE1	1:y:265:GLN:HB3	1.92	0.52
1:y:311:VAL:O	1:y:314:SER:O	2.27	0.52
1:z:157:PHE:HB3	1:z:222:SER:CB	2.40	0.52
1:1:263:THR:HA	1:2:172:GLN:HA	1.91	0.52
1:3:98:TYR:C	1:3:175:MET:HE1	2.35	0.52
1:4:308:GLY:HA3	1:4:317:GLY:HA2	1.92	0.52
1:8:238:ASP:CB	1:8:240:ASP:OD1	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:66:TYR:OH	1:A:217:LEU:N	2.42	0.52
1:A:269:ARG:CZ	1:G:298:ALA:O	2.57	0.52
1:B:238:ASP:CB	1:B:240:ASP:OD1	2.58	0.52
1:C:307:PRO:HB3	1:M:382:ALA:HA	1.92	0.52
1:E:172:GLN:HA	1:F:263:THR:HA	1.91	0.52
1:F:238:ASP:CB	1:F:240:ASP:OD1	2.58	0.52
1:F:308:GLY:HA3	1:F:317:GLY:HA2	1.92	0.52
1:F:311:VAL:O	1:F:314:SER:O	2.27	0.52
1:H:172:GLN:HA	1:Y:263:THR:HA	1.91	0.52
1:H:227:THR:HG21	1:I:151:THR:HG21	1.92	0.52
1:H:311:VAL:O	1:H:314:SER:O	2.27	0.52
1:K:431:MET:HE1	1:8:265:GLN:HB3	1.92	0.52
1:M:151:THR:C	1:c:133:GLN:HE21	2.18	0.52
1:N:37:TRP:NE1	1:m:218:ASP:O	2.42	0.52
1:N:263:THR:HA	1:P:172:GLN:HA	1.91	0.52
1:Q:157:PHE:HB3	1:Q:222:SER:CB	2.40	0.52
1:Q:308:GLY:HA3	1:Q:317:GLY:HA2	1.92	0.52
1:S:98:TYR:C	1:S:175:MET:HE1	2.35	0.52
1:T:246:ASN:HA	1:T:525:LYS:H	1.73	0.52
1:T:265:GLN:HB3	1:d:431:MET:HE1	1.92	0.52
1:U:157:PHE:HB3	1:U:222:SER:CB	2.40	0.52
1:V:288:GLY:N	1:V:403:TRP:HB3	2.25	0.52
1:W:98:TYR:C	1:W:175:MET:HE1	2.35	0.52
1:X:151:THR:C	1:f:133:GLN:HE21	2.18	0.52
1:b:133:GLN:HE21	1:o:151:THR:C	2.18	0.52
1:d:256:ARG:HG2	1:l:168:LEU:HB2	1.90	0.52
1:e:133:GLN:HE21	1:h:151:THR:C	2.18	0.52
1:e:404:ASP:CG	1:e:529:ARG:HH22	2.18	0.52
1:f:238:ASP:CB	1:f:240:ASP:OD1	2.58	0.52
1:f:382:ALA:HA	1:h:307:PRO:HB3	1.92	0.52
1:i:29:GLY:N	1:i:32:GLU:OE2	2.39	0.52
1:i:238:ASP:CB	1:i:240:ASP:OD1	2.58	0.52
1:j:39:CYS:HB2	1:x:219:GLU:CA	2.34	0.52
1:k:286:LEU:HD13	1:k:398:ILE:HD11	1.85	0.52
1:m:133:GLN:HE21	1:s:151:THR:C	2.18	0.52
1:m:265:GLN:HB3	1:n:431:MET:HE1	1.92	0.52
1:n:98:TYR:C	1:n:175:MET:HE1	2.35	0.52
1:p:288:GLY:N	1:p:403:TRP:HB3	2.25	0.52
1:r:98:TYR:C	1:r:175:MET:HE1	2.35	0.52
1:s:157:PHE:HB3	1:s:222:SER:CB	2.40	0.52
1:w:98:TYR:C	1:w:175:MET:HE1	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:157:PHE:HB3	1:x:222:SER:CB	2.40	0.52
1:y:238:ASP:CB	1:y:240:ASP:OD1	2.58	0.52
1:y:308:GLY:HA3	1:y:317:GLY:HA2	1.92	0.52
1:z:219:GLU:CA	1:4:39:CYS:HB2	2.34	0.52
1:1:238:ASP:CB	1:1:240:ASP:OD1	2.58	0.52
1:1:308:GLY:HA3	1:1:317:GLY:HA2	1.92	0.52
1:2:478:HIS:HE1	1:2:528:SER:O	1.91	0.52
1:4:157:PHE:CZ	1:4:444:PHE:CD2	2.97	0.52
1:5:172:GLN:HA	1:7:263:THR:HA	1.91	0.52
1:5:382:ALA:HA	1:6:307:PRO:HB3	1.92	0.52
1:5:431:MET:HE1	1:7:265:GLN:HB3	1.92	0.52
1:6:98:TYR:C	1:6:175:MET:HE1	2.35	0.52
1:6:478:HIS:HE1	1:6:528:SER:O	1.91	0.52
1:8:157:PHE:HB3	1:8:222:SER:CB	2.40	0.52
1:A:288:GLY:N	1:A:403:TRP:HB3	2.25	0.52
1:D:307:PRO:HB3	1:P:382:ALA:HA	1.92	0.52
1:D:404:ASP:CG	1:D:529:ARG:HH22	2.18	0.52
1:F:218:ASP:O	1:R:37:TRP:NE1	2.42	0.52
1:F:404:ASP:CG	1:F:529:ARG:HH22	2.18	0.52
1:G:265:GLN:HB3	1:I:431:MET:HE1	1.92	0.52
1:H:382:ALA:HA	1:W:307:PRO:HB3	1.92	0.52
1:I:404:ASP:CG	1:I:529:ARG:HH22	2.18	0.52
1:J:157:PHE:HB3	1:J:222:SER:CB	2.40	0.52
1:J:478:HIS:HE1	1:J:528:SER:O	1.91	0.52
1:K:98:TYR:C	1:K:175:MET:HE1	2.35	0.52
1:K:151:THR:C	1:7:133:GLN:HE21	2.19	0.52
1:K:288:GLY:N	1:K:403:TRP:HB3	2.25	0.52
1:L:308:GLY:HA3	1:L:317:GLY:HA2	1.92	0.52
1:N:29:GLY:N	1:N:32:GLU:OE2	2.39	0.52
1:N:238:ASP:CB	1:N:240:ASP:OD1	2.58	0.52
1:N:288:GLY:N	1:N:403:TRP:HB3	2.25	0.52
1:Q:66:TYR:OH	1:Q:217:LEU:N	2.42	0.52
1:R:404:ASP:CG	1:R:529:ARG:HH22	2.18	0.52
1:S:37:TRP:NE1	1:d:218:ASP:O	2.42	0.52
1:S:265:GLN:HB3	1:U:431:MET:HE1	1.92	0.52
1:T:218:ASP:O	1:i:37:TRP:NE1	2.42	0.52
1:T:404:ASP:CG	1:T:529:ARG:HH22	2.18	0.52
1:V:218:ASP:O	1:W:37:TRP:NE1	2.42	0.52
1:X:29:GLY:N	1:X:32:GLU:OE2	2.39	0.52
1:X:288:GLY:N	1:X:403:TRP:HB3	2.25	0.52
1:X:404:ASP:CG	1:X:529:ARG:HH22	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:98:TYR:C	1:Y:175:MET:HE1	2.35	0.52
1:Z:157:PHE:HB3	1:Z:222:SER:CB	2.40	0.52
1:Z:265:GLN:HB3	1:4:431:MET:HE1	1.92	0.52
1:b:238:ASP:CB	1:b:240:ASP:OD1	2.58	0.52
1:c:382:ALA:HA	1:o:307:PRO:HB3	1.92	0.52
1:c:404:ASP:CG	1:c:529:ARG:HH22	2.18	0.52
1:h:227:THR:HG21	1:i:151:THR:HG21	1.92	0.52
1:j:157:PHE:HB3	1:j:222:SER:CB	2.40	0.52
1:j:382:ALA:HA	1:k:307:PRO:HB3	1.93	0.52
1:k:151:THR:C	1:w:133:GLN:HE21	2.18	0.52
1:k:404:ASP:CG	1:k:529:ARG:HH22	2.18	0.52
1:l:218:ASP:O	1:n:37:TRP:NE1	2.42	0.52
1:l:288:GLY:N	1:l:403:TRP:HB3	2.25	0.52
1:m:404:ASP:CG	1:m:529:ARG:HH22	2.18	0.52
1:n:218:ASP:O	1:r:37:TRP:NE1	2.42	0.52
1:o:256:ARG:HG2	1:p:168:LEU:HB2	1.90	0.52
1:o:404:ASP:CG	1:o:529:ARG:HH22	2.18	0.52
1:q:382:ALA:HA	1:r:307:PRO:HB3	1.92	0.52
1:q:404:ASP:CG	1:q:529:ARG:HH22	2.18	0.52
1:t:151:THR:HG21	1:y:227:THR:HG21	1.90	0.52
1:x:66:TYR:OH	1:x:217:LEU:N	2.42	0.52
1:x:308:GLY:HA3	1:x:317:GLY:HA2	1.92	0.52
1:z:151:THR:C	1:4:133:GLN:HE21	2.18	0.52
1:4:288:GLY:N	1:4:403:TRP:HB3	2.25	0.52
1:5:288:GLY:N	1:5:403:TRP:HB3	2.25	0.52
1:5:311:VAL:O	1:5:314:SER:O	2.27	0.52
1:6:311:VAL:O	1:6:314:SER:O	2.27	0.52
1:7:98:TYR:C	1:7:175:MET:HE1	2.35	0.52
1:8:98:TYR:C	1:8:175:MET:HE1	2.35	0.52
1:A:133:GLN:HE21	1:E:151:THR:C	2.17	0.51
1:A:238:ASP:CB	1:A:240:ASP:OD1	2.58	0.51
1:B:308:GLY:HA3	1:B:317:GLY:HA2	1.92	0.51
1:C:98:TYR:C	1:C:175:MET:HE1	2.35	0.51
1:D:151:THR:C	1:E:133:GLN:HE21	2.19	0.51
1:E:98:TYR:C	1:E:175:MET:HE1	2.35	0.51
1:E:404:ASP:CG	1:E:529:ARG:HH22	2.18	0.51
1:F:157:PHE:HB3	1:F:222:SER:CB	2.40	0.51
1:G:66:TYR:OH	1:G:217:LEU:N	2.42	0.51
1:H:288:GLY:N	1:H:403:TRP:HB3	2.25	0.51
1:K:133:GLN:HE21	1:L:151:THR:C	2.18	0.51
1:K:157:PHE:CZ	1:K:444:PHE:CD2	2.97	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:227:THR:HG21	1:b:151:THR:HG21	1.93	0.51
1:M:227:THR:HG21	1:N:151:THR:HG21	1.92	0.51
1:M:307:PRO:HB3	1:b:382:ALA:HA	1.92	0.51
1:O:218:ASP:O	1:d:37:TRP:NE1	2.42	0.51
1:O:308:GLY:HA3	1:O:317:GLY:HA2	1.92	0.51
1:P:157:PHE:HB3	1:P:222:SER:CB	2.40	0.51
1:R:263:THR:HA	1:S:172:GLN:HA	1.91	0.51
1:R:265:GLN:HB3	1:S:431:MET:HE1	1.92	0.51
1:R:382:ALA:HA	1:S:307:PRO:HB3	1.92	0.51
1:U:288:GLY:N	1:U:403:TRP:HB3	2.25	0.51
1:V:157:PHE:HB3	1:V:222:SER:CB	2.40	0.51
1:V:168:LEU:HB2	1:X:256:ARG:HG2	1.90	0.51
1:W:238:ASP:CB	1:W:240:ASP:OD1	2.58	0.51
1:W:311:VAL:O	1:W:314:SER:O	2.27	0.51
1:X:307:PRO:HB3	1:e:382:ALA:HA	1.92	0.51
1:Y:133:GLN:HE21	1:4:151:THR:C	2.19	0.51
1:Z:98:TYR:C	1:Z:175:MET:HE1	2.35	0.51
1:a:404:ASP:CG	1:a:529:ARG:HH22	2.18	0.51
1:d:98:TYR:C	1:d:175:MET:HE1	2.35	0.51
1:d:308:GLY:HA3	1:d:317:GLY:HA2	1.92	0.51
1:g:227:THR:HG21	1:1:151:THR:HG21	1.92	0.51
1:g:311:VAL:O	1:g:314:SER:O	2.27	0.51
1:i:238:ASP:O	1:i:241:THR:OG1	2.21	0.51
1:i:288:GLY:N	1:i:403:TRP:HB3	2.25	0.51
1:l:308:GLY:HA3	1:l:317:GLY:HA2	1.92	0.51
1:o:288:GLY:N	1:o:403:TRP:HB3	2.25	0.51
1:p:157:PHE:HB3	1:p:222:SER:CB	2.40	0.51
1:q:157:PHE:HB3	1:q:222:SER:CB	2.40	0.51
1:r:238:ASP:O	1:r:241:THR:OG1	2.21	0.51
1:r:265:GLN:HB3	1:s:431:MET:HE1	1.92	0.51
1:u:404:ASP:CG	1:u:529:ARG:HH22	2.19	0.51
1:v:151:THR:HG21	1:1:227:THR:HG21	1.92	0.51
1:v:157:PHE:HB3	1:v:222:SER:CB	2.40	0.51
1:v:238:ASP:CB	1:v:240:ASP:OD1	2.58	0.51
1:v:288:GLY:N	1:v:403:TRP:HB3	2.25	0.51
1:y:157:PHE:HB3	1:y:222:SER:CB	2.40	0.51
1:y:404:ASP:CG	1:y:529:ARG:HH22	2.18	0.51
1:z:308:GLY:HA3	1:z:317:GLY:HA2	1.92	0.51
1:2:157:PHE:HB3	1:2:222:SER:CB	2.40	0.51
1:3:307:PRO:HB3	1:4:382:ALA:HA	1.92	0.51
1:3:404:ASP:CG	1:3:529:ARG:HH22	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:98:TYR:C	1:4:175:MET:HE1	2.35	0.51
1:5:66:TYR:OH	1:5:217:LEU:N	2.42	0.51
1:5:265:GLN:HB3	1:6:431:MET:HE1	1.92	0.51
1:B:151:THR:HG21	1:C:227:THR:HG21	1.92	0.51
1:C:311:VAL:O	1:C:314:SER:O	2.27	0.51
1:G:288:GLY:N	1:G:403:TRP:HB3	2.25	0.51
1:H:66:TYR:OH	1:H:217:LEU:N	2.42	0.51
1:H:404:ASP:CG	1:H:529:ARG:HH22	2.18	0.51
1:I:288:GLY:N	1:I:403:TRP:HB3	2.25	0.51
1:J:277:HIS:CD2	1:L:84:THR:OG1	2.52	0.51
1:J:404:ASP:CG	1:J:529:ARG:HH22	2.18	0.51
1:K:37:TRP:NE1	1:L:218:ASP:O	2.42	0.51
1:K:382:ALA:HA	1:a:307:PRO:HB3	1.92	0.51
1:M:288:GLY:N	1:M:403:TRP:HB3	2.25	0.51
1:O:151:THR:C	1:d:133:GLN:HE21	2.18	0.51
1:Q:238:ASP:CB	1:Q:240:ASP:OD1	2.58	0.51
1:S:288:GLY:N	1:S:403:TRP:HB3	2.25	0.51
1:S:311:VAL:O	1:S:314:SER:O	2.27	0.51
1:U:404:ASP:CG	1:U:529:ARG:HH22	2.18	0.51
1:X:238:ASP:CB	1:X:240:ASP:OD1	2.58	0.51
1:Z:151:THR:HG21	1:a:227:THR:HG21	1.92	0.51
1:Z:288:GLY:N	1:Z:403:TRP:HB3	2.25	0.51
1:c:157:PHE:HB3	1:c:222:SER:CB	2.40	0.51
1:d:293:MET:HG3	1:d:333:GLU:HB2	1.93	0.51
1:f:151:THR:HG21	1:z:227:THR:HG21	1.93	0.51
1:h:288:GLY:N	1:h:403:TRP:HB3	2.25	0.51
1:l:151:THR:C	1:n:133:GLN:HE21	2.18	0.51
1:m:286:LEU:HD13	1:m:398:ILE:HD11	1.85	0.51
1:n:293:MET:HG3	1:n:333:GLU:HB2	1.93	0.51
1:n:308:GLY:HA3	1:n:317:GLY:HA2	1.92	0.51
1:o:227:THR:HG21	1:7:151:THR:HG21	1.92	0.51
1:o:238:ASP:CB	1:o:240:ASP:OD1	2.58	0.51
1:p:404:ASP:CG	1:p:529:ARG:HH22	2.18	0.51
1:q:263:THR:HA	1:r:172:GLN:HA	1.91	0.51
1:q:265:GLN:HB3	1:r:431:MET:HE1	1.92	0.51
1:s:288:GLY:N	1:s:403:TRP:HB3	2.25	0.51
1:t:192:THR:HG23	1:v:259:PRO:HG3	1.92	0.51
1:t:288:GLY:N	1:t:403:TRP:HB3	2.25	0.51
1:t:293:MET:HG3	1:t:333:GLU:HB2	1.93	0.51
1:u:157:PHE:HB3	1:u:222:SER:CB	2.40	0.51
1:u:263:THR:HA	1:v:172:GLN:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:404:ASP:CG	1:w:529:ARG:HH22	2.18	0.51
1:z:98:TYR:C	1:z:175:MET:HE1	2.35	0.51
1:1:288:GLY:N	1:1:403:TRP:HB3	2.25	0.51
1:2:404:ASP:CG	1:2:529:ARG:HH22	2.18	0.51
1:4:157:PHE:HB3	1:4:222:SER:CB	2.40	0.51
1:5:308:GLY:HA3	1:5:317:GLY:HA2	1.92	0.51
1:5:404:ASP:CG	1:5:529:ARG:HH22	2.18	0.51
1:6:238:ASP:CB	1:6:240:ASP:OD1	2.58	0.51
1:A:157:PHE:HB3	1:A:222:SER:CB	2.40	0.51
1:B:151:THR:C	1:C:133:GLN:HE21	2.18	0.51
1:B:288:GLY:N	1:B:403:TRP:HB3	2.25	0.51
1:D:238:ASP:CB	1:D:240:ASP:OD1	2.58	0.51
1:G:404:ASP:CG	1:G:529:ARG:HH22	2.18	0.51
1:H:265:GLN:HB3	1:W:431:MET:HE1	1.92	0.51
1:J:308:GLY:HA3	1:J:317:GLY:HA2	1.92	0.51
1:K:39:CYS:HB2	1:L:219:GLU:CA	2.34	0.51
1:K:157:PHE:HB3	1:K:222:SER:CB	2.40	0.51
1:M:151:THR:HG21	1:c:227:THR:HG21	1.92	0.51
1:P:311:VAL:O	1:P:314:SER:O	2.27	0.51
1:R:157:PHE:HB3	1:R:222:SER:CB	2.40	0.51
1:S:238:ASP:CB	1:S:240:ASP:OD1	2.58	0.51
1:V:404:ASP:CG	1:V:529:ARG:HH22	2.18	0.51
1:X:227:THR:HG21	1:Y:151:THR:HG21	1.92	0.51
1:Z:151:THR:C	1:a:133:GLN:HE21	2.18	0.51
1:a:157:PHE:HB3	1:a:222:SER:CB	2.40	0.51
1:c:151:THR:HG21	1:s:227:THR:HG21	1.93	0.51
1:e:157:PHE:HB3	1:e:222:SER:CB	2.40	0.51
1:g:133:GLN:HE21	1:1:151:THR:C	2.18	0.51
1:j:311:VAL:O	1:j:314:SER:O	2.27	0.51
1:n:157:PHE:HB3	1:n:222:SER:CB	2.40	0.51
1:n:238:ASP:CB	1:n:240:ASP:OD1	2.58	0.51
1:o:382:ALA:HA	1:p:307:PRO:HB3	1.92	0.51
1:p:308:GLY:HA3	1:p:317:GLY:HA2	1.92	0.51
1:r:288:GLY:N	1:r:403:TRP:HB3	2.25	0.51
1:r:311:VAL:O	1:r:314:SER:O	2.27	0.51
1:s:404:ASP:CG	1:s:529:ARG:HH22	2.18	0.51
1:t:404:ASP:CG	1:t:529:ARG:HH22	2.18	0.51
1:u:288:GLY:N	1:u:403:TRP:HB3	2.25	0.51
1:x:238:ASP:CB	1:x:240:ASP:OD1	2.58	0.51
1:z:218:ASP:O	1:4:37:TRP:NE1	2.42	0.51
1:z:404:ASP:CG	1:z:529:ARG:HH22	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:133:GLN:HE21	1:8:151:THR:C	2.18	0.51
1:8:288:GLY:N	1:8:403:TRP:HB3	2.25	0.51
1:8:404:ASP:CG	1:8:529:ARG:HH22	2.19	0.51
1:B:382:ALA:HA	1:J:307:PRO:HB3	1.92	0.51
1:D:286:LEU:HD13	1:D:398:ILE:HD11	1.85	0.51
1:E:29:GLY:N	1:E:32:GLU:OE2	2.39	0.51
1:G:293:MET:HG3	1:G:333:GLU:HB2	1.93	0.51
1:H:308:GLY:HA3	1:H:317:GLY:HA2	1.92	0.51
1:I:157:PHE:HB3	1:I:222:SER:CB	2.40	0.51
1:J:227:THR:HG21	1:a:151:THR:HG21	1.92	0.51
1:L:404:ASP:CG	1:L:529:ARG:HH22	2.18	0.51
1:M:157:PHE:HB3	1:M:222:SER:CB	2.40	0.51
1:P:133:GLN:HE21	1:Q:151:THR:C	2.19	0.51
1:Q:98:TYR:C	1:Q:175:MET:HE1	2.35	0.51
1:R:219:GLU:CA	1:V:39:CYS:HB2	2.34	0.51
1:S:227:THR:HG21	1:d:151:THR:HG21	1.92	0.51
1:T:279:SER:HG	1:d:314:SER:HB3	1.75	0.51
1:T:286:LEU:HD13	1:T:398:ILE:HD11	1.85	0.51
1:U:227:THR:HG21	1:e:151:THR:HG21	1.93	0.51
1:V:307:PRO:HB3	1:X:382:ALA:HA	1.92	0.51
1:V:308:GLY:HA3	1:V:317:GLY:HA2	1.92	0.51
1:X:157:PHE:HB3	1:X:222:SER:CB	2.40	0.51
1:X:172:GLN:HA	1:e:263:THR:HA	1.91	0.51
1:Y:227:THR:HG21	1:4:151:THR:HG21	1.92	0.51
1:Y:404:ASP:CG	1:Y:529:ARG:HH22	2.18	0.51
1:Z:404:ASP:CG	1:Z:529:ARG:HH22	2.18	0.51
1:a:308:GLY:HA3	1:a:317:GLY:HA2	1.92	0.51
1:c:172:GLN:HA	1:p:263:THR:HA	1.91	0.51
1:c:288:GLY:N	1:c:403:TRP:HB3	2.25	0.51
1:d:165:PRO:O	1:d:189:TYR:OH	2.20	0.51
1:d:238:ASP:CB	1:d:240:ASP:OD1	2.58	0.51
1:e:227:THR:HG21	1:h:151:THR:HG21	1.92	0.51
1:e:308:GLY:HA3	1:e:317:GLY:HA2	1.92	0.51
1:f:268:LEU:N	1:f:280:SER:O	2.38	0.51
1:f:307:PRO:HB3	1:g:382:ALA:HA	1.92	0.51
1:g:98:TYR:C	1:g:175:MET:HE1	2.35	0.51
1:h:157:PHE:HB3	1:h:222:SER:CB	2.40	0.51
1:i:64:ASP:OD1	1:i:446:LYS:NZ	2.38	0.51
1:j:133:GLN:HE21	1:x:151:THR:C	2.19	0.51
1:j:227:THR:HG21	1:x:151:THR:HG21	1.92	0.51
1:k:238:ASP:CB	1:k:240:ASP:OD1	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:165:PRO:O	1:n:189:TYR:OH	2.20	0.51
1:o:265:GLN:HB3	1:p:431:MET:HE1	1.92	0.51
1:p:133:GLN:HE21	1:q:151:THR:C	2.18	0.51
1:r:238:ASP:CB	1:r:240:ASP:OD1	2.58	0.51
1:s:238:ASP:CB	1:s:240:ASP:OD1	2.58	0.51
1:t:66:TYR:OH	1:t:217:LEU:N	2.42	0.51
1:t:307:PRO:HB3	1:v:382:ALA:HA	1.91	0.51
1:t:382:ALA:HA	1:u:307:PRO:HB3	1.91	0.51
1:u:133:GLN:HE21	1:2:151:THR:C	2.18	0.51
1:x:98:TYR:C	1:x:175:MET:HE1	2.35	0.51
1:y:238:ASP:O	1:y:241:THR:OG1	2.21	0.51
1:z:84:THR:OG1	1:2:277:HIS:CD2	2.52	0.51
1:2:227:THR:HG21	1:3:151:THR:HG21	1.92	0.51
1:2:308:GLY:HA3	1:2:317:GLY:HA2	1.92	0.51
1:3:157:PHE:HB3	1:3:222:SER:CB	2.40	0.51
1:3:227:THR:HG21	1:8:151:THR:HG21	1.92	0.51
1:3:308:GLY:HA3	1:3:317:GLY:HA2	1.92	0.51
1:7:404:ASP:CG	1:7:529:ARG:HH22	2.18	0.51
1:A:151:THR:C	1:B:133:GLN:HE21	2.19	0.51
1:A:266:VAL:HG22	1:G:337:THR:O	2.09	0.51
1:B:265:GLN:HB3	1:J:431:MET:HE1	1.92	0.51
1:B:307:PRO:HB3	1:L:382:ALA:HA	1.92	0.51
1:C:382:ALA:HA	1:b:307:PRO:HB3	1.92	0.51
1:D:98:TYR:C	1:D:175:MET:HE1	2.35	0.51
1:G:308:GLY:HA3	1:G:317:GLY:HA2	1.92	0.51
1:I:133:GLN:HE21	1:J:151:THR:C	2.18	0.51
1:N:157:PHE:HB3	1:N:222:SER:CB	2.40	0.51
1:O:227:THR:HG21	1:P:151:THR:HG21	1.92	0.51
1:P:227:THR:HG21	1:Q:151:THR:HG21	1.92	0.51
1:Q:133:GLN:HE21	1:S:151:THR:C	2.18	0.51
1:R:288:GLY:N	1:R:403:TRP:HB3	2.25	0.51
1:T:157:PHE:HB3	1:T:222:SER:CB	2.40	0.51
1:T:238:ASP:CB	1:T:240:ASP:OD1	2.58	0.51
1:T:308:GLY:HA3	1:T:317:GLY:HA2	1.92	0.51
1:U:98:TYR:C	1:U:175:MET:HE1	2.35	0.51
1:U:238:ASP:CB	1:U:240:ASP:OD1	2.58	0.51
1:d:157:PHE:HB3	1:d:222:SER:CB	2.40	0.51
1:e:288:GLY:N	1:e:403:TRP:HB3	2.25	0.51
1:h:133:GLN:HE21	1:i:151:THR:C	2.19	0.51
1:h:286:LEU:HD13	1:h:398:ILE:HD11	1.85	0.51
1:i:157:PHE:HB3	1:i:222:SER:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:265:GLN:HB3	1:j:431:MET:HE1	1.92	0.51
1:j:288:GLY:N	1:j:403:TRP:HB3	2.25	0.51
1:m:157:PHE:HB3	1:m:222:SER:CB	2.40	0.51
1:n:151:THR:HG21	1:r:227:THR:HG21	1.92	0.51
1:o:157:PHE:HB3	1:o:222:SER:CB	2.40	0.51
1:r:151:THR:C	1:x:133:GLN:HE21	2.18	0.51
1:s:98:TYR:C	1:s:175:MET:HE1	2.35	0.51
1:t:308:GLY:HA3	1:t:317:GLY:HA2	1.92	0.51
1:u:37:TRP:NE1	1:2:218:ASP:O	2.42	0.51
1:w:29:GLY:N	1:w:32:GLU:OE2	2.39	0.51
1:w:265:GLN:HB3	1:x:431:MET:HE1	1.92	0.51
1:1:293:MET:HG3	1:1:333:GLU:HB2	1.93	0.51
1:1:382:ALA:HA	1:2:307:PRO:HB3	1.92	0.51
1:7:308:GLY:HA3	1:7:317:GLY:HA2	1.92	0.51
1:C:277:HIS:CD2	1:b:84:THR:OG1	2.53	0.51
1:C:404:ASP:CG	1:C:529:ARG:HH22	2.18	0.51
1:E:265:GLN:HB3	1:Q:431:MET:HE1	1.92	0.51
1:E:288:GLY:N	1:E:403:TRP:HB3	2.25	0.51
1:E:308:GLY:HA3	1:E:317:GLY:HA2	1.92	0.51
1:F:151:THR:C	1:R:133:GLN:HE21	2.19	0.51
1:I:37:TRP:NE1	1:J:218:ASP:O	2.42	0.51
1:J:133:GLN:HE21	1:a:151:THR:C	2.19	0.51
1:K:151:THR:HG21	1:7:227:THR:HG21	1.92	0.51
1:K:165:PRO:O	1:K:189:TYR:OH	2.20	0.51
1:K:227:THR:HG21	1:L:151:THR:HG21	1.92	0.51
1:K:238:ASP:CB	1:K:240:ASP:OD1	2.58	0.51
1:L:37:TRP:NE1	1:b:218:ASP:O	2.42	0.51
1:M:133:GLN:HE21	1:N:151:THR:C	2.19	0.51
1:M:172:GLN:HA	1:b:263:THR:HA	1.91	0.51
1:N:265:GLN:HB3	1:P:431:MET:HE1	1.92	0.51
1:O:98:TYR:C	1:O:175:MET:HE1	2.35	0.51
1:O:157:PHE:HB3	1:O:222:SER:CB	2.40	0.51
1:O:265:GLN:HB3	1:m:431:MET:HE1	1.92	0.51
1:P:288:GLY:N	1:P:403:TRP:HB3	2.25	0.51
1:R:151:THR:C	1:V:133:GLN:HE21	2.18	0.51
1:T:293:MET:HG3	1:T:333:GLU:HB2	1.93	0.51
1:V:263:THR:HA	1:e:172:GLN:HA	1.91	0.51
1:V:431:MET:HE1	1:X:265:GLN:HB3	1.92	0.51
1:Y:308:GLY:HA3	1:Y:317:GLY:HA2	1.92	0.51
1:Y:311:VAL:O	1:Y:314:SER:O	2.27	0.51
1:Z:307:PRO:HB3	1:3:382:ALA:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:155:GLN:HE21	1:a:224:MET:HE3	1.76	0.51
1:b:268:LEU:N	1:b:280:SER:O	2.38	0.51
1:b:404:ASP:CG	1:b:529:ARG:HH22	2.18	0.51
1:c:263:THR:HA	1:o:172:GLN:HA	1.91	0.51
1:c:308:GLY:HA3	1:c:317:GLY:HA2	1.92	0.51
1:g:151:THR:C	1:k:133:GLN:HE21	2.18	0.51
1:j:308:GLY:HA3	1:j:317:GLY:HA2	1.92	0.51
1:l:98:TYR:C	1:l:175:MET:HE1	2.35	0.51
1:m:238:ASP:CB	1:m:240:ASP:OD1	2.58	0.51
1:m:308:GLY:HA3	1:m:317:GLY:HA2	1.92	0.51
1:n:151:THR:C	1:r:133:GLN:HE21	2.19	0.51
1:n:155:GLN:HE21	1:n:224:MET:HE3	1.76	0.51
1:q:133:GLN:HE21	1:y:151:THR:C	2.19	0.51
1:t:155:GLN:HE21	1:t:224:MET:HE3	1.76	0.51
1:t:296:GLY:O	1:v:269:ARG:CG	2.58	0.51
1:t:312:GLY:O	1:v:377:ARG:HD3	2.10	0.51
1:v:151:THR:C	1:1:133:GLN:HE21	2.19	0.51
1:w:288:GLY:N	1:w:403:TRP:HB3	2.25	0.51
1:2:133:GLN:HE21	1:3:151:THR:C	2.19	0.51
1:3:155:GLN:HE21	1:3:224:MET:HE3	1.76	0.51
1:4:165:PRO:O	1:4:189:TYR:OH	2.20	0.51
1:A:307:PRO:HB3	1:I:382:ALA:HA	1.92	0.51
1:B:293:MET:HG3	1:B:333:GLU:HB2	1.93	0.51
1:C:172:GLN:HA	1:M:263:THR:HA	1.91	0.51
1:C:308:GLY:HA3	1:C:317:GLY:HA2	1.92	0.51
1:D:29:GLY:N	1:D:32:GLU:OE2	2.39	0.51
1:D:155:GLN:HE21	1:D:224:MET:HE3	1.76	0.51
1:E:382:ALA:HA	1:Q:307:PRO:HB3	1.92	0.51
1:F:431:MET:HE1	1:Q:265:GLN:HB3	1.92	0.51
1:G:155:GLN:HE21	1:G:224:MET:HE3	1.76	0.51
1:I:66:TYR:OH	1:I:217:LEU:N	2.42	0.51
1:M:286:LEU:HD13	1:M:398:ILE:HD11	1.85	0.51
1:M:308:GLY:HA3	1:M:317:GLY:HA2	1.92	0.51
1:N:293:MET:HG3	1:N:333:GLU:HB2	1.93	0.51
1:O:155:GLN:HE21	1:O:224:MET:HE3	1.76	0.51
1:O:309:VAL:HB	1:n:380:TYR:CD1	2.46	0.51
1:P:308:GLY:HA3	1:P:317:GLY:HA2	1.92	0.51
1:T:151:THR:C	1:i:133:GLN:HE21	2.19	0.51
1:V:382:ALA:HA	1:e:307:PRO:HB3	1.92	0.51
1:X:431:MET:HE1	1:e:265:GLN:HB3	1.92	0.51
1:Y:288:GLY:N	1:Y:403:TRP:HB3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:382:ALA:HA	1:8:307:PRO:HB3	1.92	0.51
1:c:265:GLN:HB3	1:o:431:MET:HE1	1.92	0.51
1:d:155:GLN:HE21	1:d:224:MET:HE3	1.76	0.51
1:d:380:TYR:CD1	1:l:309:VAL:HB	2.46	0.51
1:d:404:ASP:CG	1:d:529:ARG:HH22	2.18	0.51
1:f:172:GLN:HA	1:g:263:THR:HA	1.91	0.51
1:f:404:ASP:CG	1:f:529:ARG:HH22	2.18	0.51
1:g:37:TRP:NE1	1:1:218:ASP:O	2.42	0.51
1:g:172:GLN:HA	1:h:263:THR:HA	1.91	0.51
1:g:308:GLY:HA3	1:g:317:GLY:HA2	1.92	0.51
1:g:404:ASP:CG	1:g:529:ARG:HH22	2.18	0.51
1:h:308:GLY:HA3	1:h:317:GLY:HA2	1.92	0.51
1:i:293:MET:HG3	1:i:333:GLU:HB2	1.93	0.51
1:j:404:ASP:CG	1:j:529:ARG:HH22	2.18	0.51
1:k:98:TYR:C	1:k:175:MET:HE1	2.35	0.51
1:k:155:GLN:HE21	1:k:224:MET:HE3	1.76	0.51
1:l:155:GLN:HE21	1:l:224:MET:HE3	1.76	0.51
1:l:157:PHE:HB3	1:l:222:SER:CB	2.40	0.51
1:n:404:ASP:CG	1:n:529:ARG:HH22	2.18	0.51
1:p:227:THR:HG21	1:q:151:THR:HG21	1.92	0.51
1:q:238:ASP:CB	1:q:240:ASP:OD1	2.58	0.51
1:q:288:GLY:N	1:q:403:TRP:HB3	2.25	0.51
1:r:382:ALA:HA	1:s:307:PRO:HB3	1.92	0.51
1:u:66:TYR:OH	1:u:217:LEU:N	2.42	0.51
1:w:382:ALA:HA	1:x:307:PRO:HB3	1.92	0.51
1:x:265:GLN:HB3	1:y:431:MET:HE1	1.92	0.51
1:z:288:GLY:N	1:z:403:TRP:HB3	2.25	0.51
1:z:382:ALA:HA	1:1:307:PRO:HB3	1.92	0.51
1:1:265:GLN:HB3	1:2:431:MET:HE1	1.92	0.51
1:4:155:GLN:HE21	1:4:224:MET:HE3	1.76	0.51
1:4:238:ASP:CB	1:4:240:ASP:OD1	2.58	0.51
1:5:157:PHE:HB3	1:5:222:SER:CB	2.40	0.51
1:7:311:VAL:O	1:7:314:SER:O	2.27	0.51
1:A:308:GLY:HA3	1:A:317:GLY:HA2	1.92	0.51
1:A:458:TYR:OH	1:B:183:ILE:HD12	2.10	0.51
1:B:218:ASP:O	1:C:37:TRP:NE1	2.42	0.51
1:F:172:GLN:HA	1:Q:263:THR:HA	1.91	0.51
1:G:269:ARG:CG	1:I:296:GLY:O	2.59	0.51
1:H:157:PHE:HB3	1:H:222:SER:CB	2.40	0.51
1:K:404:ASP:CG	1:K:529:ARG:HH22	2.18	0.51
1:L:155:GLN:HE21	1:L:224:MET:HE3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:311:VAL:O	1:N:314:SER:O	2.27	0.51
1:O:29:GLY:N	1:O:32:GLU:OE2	2.39	0.51
1:O:151:THR:HG21	1:d:227:THR:HG21	1.92	0.51
1:O:404:ASP:CG	1:O:529:ARG:HH22	2.18	0.51
1:P:404:ASP:CG	1:P:529:ARG:HH22	2.18	0.51
1:R:238:ASP:CB	1:R:240:ASP:OD1	2.58	0.51
1:R:431:MET:HE1	1:U:265:GLN:HB3	1.92	0.51
1:S:133:GLN:HE21	1:d:151:THR:C	2.19	0.51
1:S:382:ALA:HA	1:U:307:PRO:HB3	1.92	0.51
1:T:380:TYR:CD1	1:d:309:VAL:HB	2.46	0.51
1:T:431:MET:HE1	1:l:265:GLN:HB3	1.92	0.51
1:U:155:GLN:HE21	1:U:224:MET:HE3	1.76	0.51
1:W:155:GLN:HE21	1:W:224:MET:HE3	1.76	0.51
1:W:288:GLY:N	1:W:403:TRP:HB3	2.25	0.51
1:W:382:ALA:HA	1:Y:307:PRO:HB3	1.92	0.51
1:X:34:THR:HG1	1:X:131:ASN:H	1.59	0.51
1:Y:157:PHE:HB3	1:Y:222:SER:CB	2.40	0.51
1:Z:218:ASP:O	1:a:37:TRP:NE1	2.41	0.51
1:c:307:PRO:HB3	1:p:382:ALA:HA	1.92	0.51
1:f:218:ASP:O	1:z:37:TRP:NE1	2.42	0.51
1:f:263:THR:HA	1:h:172:GLN:HA	1.91	0.51
1:f:431:MET:HE1	1:g:265:GLN:HB3	1.92	0.51
1:g:288:GLY:N	1:g:403:TRP:HB3	2.25	0.51
1:l:151:THR:HG21	1:n:227:THR:HG21	1.92	0.51
1:p:39:CYS:HB2	1:q:219:GLU:CA	2.34	0.51
1:p:151:THR:C	1:6:133:GLN:HE21	2.18	0.51
1:r:155:GLN:HE21	1:r:224:MET:HE3	1.76	0.51
1:v:133:GLN:HE21	1:w:151:THR:C	2.18	0.51
1:v:308:GLY:HA3	1:v:317:GLY:HA2	1.92	0.51
1:w:308:GLY:HA3	1:w:317:GLY:HA2	1.92	0.51
1:z:151:THR:HG21	1:4:227:THR:HG21	1.92	0.51
1:1:98:TYR:C	1:1:175:MET:HE1	2.35	0.51
1:1:157:PHE:HB3	1:1:222:SER:CB	2.40	0.51
1:3:37:TRP:NE1	1:8:218:ASP:O	2.42	0.51
1:6:155:GLN:HE21	1:6:224:MET:HE3	1.76	0.51
1:6:288:GLY:N	1:6:403:TRP:HB3	2.25	0.51
1:6:382:ALA:HA	1:7:307:PRO:HB3	1.92	0.51
1:6:404:ASP:CG	1:6:529:ARG:HH22	2.18	0.51
1:7:293:MET:HG3	1:7:333:GLU:HB2	1.93	0.51
1:A:218:ASP:O	1:B:37:TRP:NE1	2.40	0.51
1:B:98:TYR:C	1:B:175:MET:HE1	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:PHE:HB3	1:B:222:SER:CB	2.40	0.51
1:C:151:THR:C	1:D:133:GLN:HE21	2.19	0.51
1:C:263:THR:HA	1:b:172:GLN:HA	1.91	0.51
1:C:288:GLY:N	1:C:403:TRP:HB3	2.25	0.51
1:D:265:GLN:HB3	1:N:431:MET:HE1	1.92	0.51
1:H:277:HIS:CD2	1:W:84:THR:OG1	2.52	0.51
1:J:265:GLN:HB3	1:L:431:MET:HE1	1.92	0.51
1:K:155:GLN:HE21	1:K:224:MET:HE3	1.76	0.51
1:L:288:GLY:N	1:L:403:TRP:HB3	2.25	0.51
1:M:431:MET:HE1	1:b:265:GLN:HB3	1.92	0.51
1:N:133:GLN:HE21	1:m:151:THR:C	2.19	0.51
1:O:277:HIS:CD2	1:m:84:THR:OG1	2.52	0.51
1:O:307:PRO:HB3	1:n:382:ALA:HA	1.92	0.51
1:R:151:THR:HG21	1:V:227:THR:HG21	1.92	0.51
1:S:155:GLN:HE21	1:S:224:MET:HE3	1.76	0.51
1:T:39:CYS:HB2	1:U:219:GLU:CA	2.34	0.51
1:T:288:GLY:N	1:T:403:TRP:HB3	2.25	0.51
1:V:151:THR:C	1:W:133:GLN:HE21	2.19	0.51
1:W:269:ARG:CG	1:Y:296:GLY:O	2.59	0.51
1:Y:293:MET:HG3	1:Y:333:GLU:HB2	1.93	0.51
1:a:288:GLY:N	1:a:403:TRP:HB3	2.25	0.51
1:d:288:GLY:N	1:d:403:TRP:HB3	2.25	0.51
1:d:382:ALA:HA	1:l:307:PRO:HB3	1.92	0.51
1:f:265:GLN:HB3	1:h:431:MET:HE1	1.92	0.51
1:i:311:VAL:O	1:i:314:SER:O	2.27	0.51
1:i:431:MET:HE1	1:k:265:GLN:HB3	1.92	0.51
1:m:227:THR:HG21	1:s:151:THR:HG21	1.92	0.51
1:m:288:GLY:N	1:m:403:TRP:HB3	2.25	0.51
1:m:293:MET:HG3	1:m:333:GLU:HB2	1.93	0.51
1:m:380:TYR:CD1	1:n:309:VAL:HB	2.46	0.51
1:p:151:THR:HG21	1:6:227:THR:HG21	1.92	0.51
1:s:155:GLN:HE21	1:s:224:MET:HE3	1.76	0.51
1:s:308:GLY:HA3	1:s:317:GLY:HA2	1.92	0.51
1:t:266:VAL:HG22	1:u:337:THR:O	2.11	0.51
1:z:155:GLN:HE21	1:z:224:MET:HE3	1.76	0.51
1:z:431:MET:HE1	1:2:265:GLN:HB3	1.92	0.51
1:3:288:GLY:N	1:3:403:TRP:HB3	2.25	0.51
1:4:404:ASP:CG	1:4:529:ARG:HH22	2.18	0.51
1:6:269:ARG:CG	1:7:296:GLY:O	2.59	0.51
1:7:288:GLY:N	1:7:403:TRP:HB3	2.25	0.51
1:A:293:MET:HG3	1:A:333:GLU:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:MET:HE1	1:I:265:GLN:HB3	1.93	0.51
1:C:265:GLN:HB3	1:b:431:MET:HE1	1.92	0.51
1:F:133:GLN:HE21	1:G:151:THR:C	2.18	0.51
1:H:309:VAL:HB	1:Y:380:TYR:CD1	2.46	0.51
1:K:265:GLN:HB3	1:a:431:MET:HE1	1.92	0.51
1:L:133:GLN:HE21	1:b:151:THR:C	2.19	0.51
1:N:279:SER:HG	1:P:314:SER:HB3	1.76	0.51
1:O:266:VAL:HG22	1:m:337:THR:O	2.11	0.51
1:O:288:GLY:N	1:O:403:TRP:HB3	2.25	0.51
1:Q:155:GLN:HE21	1:Q:224:MET:HE3	1.76	0.51
1:S:404:ASP:CG	1:S:529:ARG:HH22	2.18	0.51
1:U:308:GLY:HA3	1:U:317:GLY:HA2	1.92	0.51
1:W:404:ASP:CG	1:W:529:ARG:HH22	2.18	0.51
1:X:133:GLN:HE21	1:Y:151:THR:C	2.19	0.51
1:f:151:THR:C	1:z:133:GLN:HE21	2.19	0.51
1:i:308:GLY:HA3	1:i:317:GLY:HA2	1.92	0.51
1:j:151:THR:HG21	1:l:227:THR:HG21	1.92	0.51
1:k:29:GLY:N	1:k:32:GLU:OE2	2.39	0.51
1:n:288:GLY:N	1:n:403:TRP:HB3	2.25	0.51
1:p:37:TRP:NE1	1:q:218:ASP:O	2.42	0.51
1:q:431:MET:HE1	1:s:265:GLN:HB3	1.92	0.51
1:r:404:ASP:CG	1:r:529:ARG:HH22	2.18	0.51
1:s:29:GLY:N	1:s:32:GLU:OE2	2.39	0.51
1:x:155:GLN:HE21	1:x:224:MET:HE3	1.76	0.51
1:x:263:THR:HA	1:y:172:GLN:HA	1.91	0.51
1:x:382:ALA:HA	1:y:307:PRO:HB3	1.92	0.51
1:z:293:MET:HG3	1:z:333:GLU:HB2	1.93	0.51
1:5:155:GLN:HE21	1:5:224:MET:HE3	1.76	0.51
1:5:309:VAL:HB	1:7:380:TYR:CD1	2.46	0.51
1:7:157:PHE:HB3	1:7:222:SER:CB	2.40	0.51
1:B:404:ASP:CG	1:B:529:ARG:HH22	2.19	0.50
1:D:288:GLY:N	1:D:403:TRP:HB3	2.25	0.50
1:E:293:MET:HG3	1:E:333:GLU:HB2	1.93	0.50
1:E:309:VAL:HB	1:F:380:TYR:CD1	2.46	0.50
1:F:227:THR:HG21	1:G:151:THR:HG21	1.92	0.50
1:F:307:PRO:HB3	1:Q:382:ALA:HA	1.92	0.50
1:F:309:VAL:HB	1:Q:380:TYR:CD1	2.46	0.50
1:G:133:GLN:HE21	1:W:151:THR:C	2.19	0.50
1:H:155:GLN:HE21	1:H:224:MET:HE3	1.76	0.50
1:I:293:MET:HG3	1:I:333:GLU:HB2	1.93	0.50
1:I:308:GLY:HA3	1:I:317:GLY:HA2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:293:MET:HG3	1:L:333:GLU:HB2	1.93	0.50
1:N:308:GLY:HA3	1:N:317:GLY:HA2	1.92	0.50
1:N:380:TYR:CD1	1:P:309:VAL:HB	2.46	0.50
1:R:307:PRO:HB3	1:U:382:ALA:HA	1.92	0.50
1:S:269:ARG:CG	1:U:296:GLY:O	2.59	0.50
1:T:84:THR:OG1	1:l:277:HIS:CD2	2.52	0.50
1:T:227:THR:HG21	1:U:151:THR:HG21	1.92	0.50
1:T:309:VAL:HB	1:l:380:TYR:CD1	2.46	0.50
1:W:293:MET:HG3	1:W:333:GLU:HB2	1.93	0.50
1:Y:155:GLN:HE21	1:Y:224:MET:HE3	1.76	0.50
1:a:293:MET:HG3	1:a:333:GLU:HB2	1.93	0.50
1:e:293:MET:HG3	1:e:333:GLU:HB2	1.93	0.50
1:f:84:THR:OG1	1:g:277:HIS:CD2	2.53	0.50
1:o:133:GLN:HE21	1:7:151:THR:C	2.19	0.50
1:o:155:GLN:HE21	1:o:224:MET:HE3	1.76	0.50
1:o:269:ARG:CG	1:p:296:GLY:O	2.59	0.50
1:o:293:MET:HG3	1:o:333:GLU:HB2	1.93	0.50
1:t:285:TRP:CD2	1:u:419:PRO:HD3	2.46	0.50
1:u:227:THR:HG21	1:2:151:THR:HG21	1.92	0.50
1:u:308:GLY:HA3	1:u:317:GLY:HA2	1.92	0.50
1:v:293:MET:HG3	1:v:333:GLU:HB2	1.93	0.50
1:w:293:MET:HG3	1:w:333:GLU:HB2	1.93	0.50
1:w:309:VAL:HB	1:y:380:TYR:CD1	2.46	0.50
1:x:380:TYR:CD1	1:y:309:VAL:HB	2.46	0.50
1:y:155:GLN:HE21	1:y:224:MET:HE3	1.76	0.50
1:2:288:GLY:N	1:2:403:TRP:HB3	2.25	0.50
1:3:293:MET:HG3	1:3:333:GLU:HB2	1.93	0.50
1:3:431:MET:HE1	1:4:265:GLN:HB3	1.92	0.50
1:B:155:GLN:HE21	1:B:224:MET:HE3	1.76	0.50
1:D:380:TYR:CD1	1:N:309:VAL:HB	2.46	0.50
1:E:296:GLY:O	1:F:269:ARG:CG	2.59	0.50
1:I:227:THR:HG21	1:J:151:THR:HG21	1.92	0.50
1:M:64:ASP:OD1	1:M:446:LYS:NZ	2.38	0.50
1:M:404:ASP:CG	1:M:529:ARG:HH22	2.18	0.50
1:Q:64:ASP:OD1	1:Q:446:LYS:NZ	2.38	0.50
1:R:308:GLY:HA3	1:R:317:GLY:HA2	1.92	0.50
1:R:380:TYR:CD1	1:S:309:VAL:HB	2.46	0.50
1:S:380:TYR:CD1	1:U:309:VAL:HB	2.46	0.50
1:U:64:ASP:OD1	1:U:446:LYS:NZ	2.38	0.50
1:V:151:THR:HG21	1:W:227:THR:HG21	1.92	0.50
1:V:296:GLY:O	1:X:269:ARG:CG	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:155:GLN:HE21	1:X:224:MET:HE3	1.76	0.50
1:b:293:MET:HG3	1:b:333:GLU:HB2	1.93	0.50
1:c:293:MET:HG3	1:c:333:GLU:HB2	1.93	0.50
1:c:332:ASP:OD2	1:c:365:GLN:NE2	2.45	0.50
1:f:277:HIS:CD2	1:h:84:THR:OG1	2.52	0.50
1:g:151:THR:HG21	1:k:227:THR:HG21	1.92	0.50
1:g:157:PHE:HB3	1:g:222:SER:CB	2.40	0.50
1:h:404:ASP:CG	1:h:529:ARG:HH22	2.18	0.50
1:k:288:GLY:N	1:k:403:TRP:HB3	2.25	0.50
1:l:404:ASP:CG	1:l:529:ARG:HH22	2.18	0.50
1:p:155:GLN:HE21	1:p:224:MET:HE3	1.76	0.50
1:q:307:PRO:HB3	1:s:382:ALA:HA	1.92	0.50
1:q:308:GLY:HA3	1:q:317:GLY:HA2	1.92	0.50
1:q:380:TYR:CD1	1:r:309:VAL:HB	2.46	0.50
1:r:269:ARG:CG	1:s:296:GLY:O	2.59	0.50
1:r:308:GLY:HA3	1:r:317:GLY:HA2	1.92	0.50
1:r:380:TYR:CD1	1:s:309:VAL:HB	2.46	0.50
1:t:309:VAL:HB	1:v:380:TYR:CD1	2.46	0.50
1:t:347:ASN:HB2	1:6:458:TYR:OH	2.10	0.50
1:u:151:THR:C	1:5:133:GLN:HE21	2.18	0.50
1:u:293:MET:HG3	1:u:333:GLU:HB2	1.93	0.50
1:w:296:GLY:O	1:y:269:ARG:CG	2.59	0.50
1:z:296:GLY:O	1:2:269:ARG:CG	2.59	0.50
1:1:155:GLN:HE21	1:1:224:MET:HE3	1.76	0.50
1:1:404:ASP:CG	1:1:529:ARG:HH22	2.18	0.50
1:6:293:MET:HG3	1:6:333:GLU:HB2	1.93	0.50
1:7:155:GLN:HE21	1:7:224:MET:HE3	1.76	0.50
1:8:155:GLN:HE21	1:8:224:MET:HE3	1.76	0.50
1:C:157:PHE:HB3	1:C:222:SER:CB	2.40	0.50
1:D:293:MET:HG3	1:D:333:GLU:HB2	1.93	0.50
1:E:380:TYR:CD1	1:Q:309:VAL:HB	2.46	0.50
1:F:155:GLN:HE21	1:F:224:MET:HE3	1.76	0.50
1:F:219:GLU:CA	1:R:39:CYS:HB2	2.34	0.50
1:J:269:ARG:CG	1:L:296:GLY:O	2.59	0.50
1:J:288:GLY:N	1:J:403:TRP:HB3	2.25	0.50
1:P:155:GLN:HE21	1:P:224:MET:HE3	1.76	0.50
1:Q:332:ASP:OD2	1:Q:365:GLN:NE2	2.45	0.50
1:R:155:GLN:HE21	1:R:224:MET:HE3	1.76	0.50
1:R:218:ASP:O	1:V:37:TRP:NE1	2.42	0.50
1:R:332:ASP:OD2	1:R:365:GLN:NE2	2.45	0.50
1:T:151:THR:HG21	1:i:227:THR:HG21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:29:GLY:N	1:U:32:GLU:OE2	2.39	0.50
1:U:293:MET:HG3	1:U:333:GLU:HB2	1.93	0.50
1:V:332:ASP:OD2	1:V:365:GLN:NE2	2.45	0.50
1:X:293:MET:HG3	1:X:333:GLU:HB2	1.93	0.50
1:Z:308:GLY:HA3	1:Z:317:GLY:HA2	1.92	0.50
1:a:254:PHE:CZ	1:8:314:SER:HB2	2.46	0.50
1:c:380:TYR:CD1	1:o:309:VAL:HB	2.46	0.50
1:c:431:MET:HE1	1:p:265:GLN:HB3	1.92	0.50
1:e:238:ASP:O	1:e:241:THR:OG1	2.21	0.50
1:e:332:ASP:OD2	1:e:365:GLN:NE2	2.45	0.50
1:f:293:MET:HG3	1:f:333:GLU:HB2	1.93	0.50
1:i:380:TYR:CD1	1:j:309:VAL:HB	2.46	0.50
1:i:404:ASP:CG	1:i:529:ARG:HH22	2.18	0.50
1:j:155:GLN:HE21	1:j:224:MET:HE3	1.76	0.50
1:l:29:GLY:N	1:l:32:GLU:OE2	2.39	0.50
1:m:382:ALA:HA	1:n:307:PRO:HB3	1.92	0.50
1:q:293:MET:HG3	1:q:333:GLU:HB2	1.93	0.50
1:q:332:ASP:OD2	1:q:365:GLN:NE2	2.45	0.50
1:w:307:PRO:HB3	1:y:382:ALA:HA	1.92	0.50
1:x:332:ASP:OD2	1:x:365:GLN:NE2	2.45	0.50
1:2:293:MET:HG3	1:2:333:GLU:HB2	1.93	0.50
1:5:269:ARG:CG	1:6:296:GLY:O	2.59	0.50
1:5:277:HIS:CD2	1:6:84:THR:OG1	2.52	0.50
1:6:265:GLN:HB3	1:7:431:MET:HE1	1.92	0.50
1:8:308:GLY:HA3	1:8:317:GLY:HA2	1.92	0.50
1:C:155:GLN:HE21	1:C:224:MET:HE3	1.76	0.50
1:C:337:THR:O	1:M:266:VAL:HG22	2.12	0.50
1:D:296:GLY:O	1:P:269:ARG:CG	2.59	0.50
1:D:309:VAL:HB	1:P:380:TYR:CD1	2.47	0.50
1:E:307:PRO:HB3	1:F:382:ALA:HA	1.92	0.50
1:E:410:TYR:HE2	1:E:511:LEU:HD11	1.77	0.50
1:F:332:ASP:OD2	1:F:365:GLN:NE2	2.45	0.50
1:G:382:ALA:HA	1:I:307:PRO:HB3	1.92	0.50
1:H:133:GLN:HE21	1:I:151:THR:C	2.19	0.50
1:H:269:ARG:CG	1:W:296:GLY:O	2.59	0.50
1:I:155:GLN:HE21	1:I:224:MET:HE3	1.76	0.50
1:J:293:MET:HG3	1:J:333:GLU:HB2	1.93	0.50
1:M:84:THR:OG1	1:b:277:HIS:CD2	2.52	0.50
1:N:227:THR:HG21	1:m:151:THR:HG21	1.92	0.50
1:O:380:TYR:CD1	1:m:309:VAL:HB	2.47	0.50
1:R:293:MET:HG3	1:R:333:GLU:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:308:GLY:HA3	1:S:317:GLY:HA2	1.92	0.50
1:T:337:THR:O	1:l:266:VAL:HG22	2.12	0.50
1:T:382:ALA:HA	1:d:307:PRO:HB3	1.92	0.50
1:V:155:GLN:HE21	1:V:224:MET:HE3	1.76	0.50
1:V:265:GLN:HB3	1:e:431:MET:HE1	1.92	0.50
1:W:265:GLN:HB3	1:Y:431:MET:HE1	1.92	0.50
1:W:277:HIS:CD2	1:Y:84:THR:OG1	2.52	0.50
1:W:332:ASP:OD2	1:W:365:GLN:NE2	2.45	0.50
1:X:309:VAL:HB	1:e:380:TYR:CD1	2.46	0.50
1:Y:410:TYR:HE2	1:Y:511:LEU:HD11	1.77	0.50
1:Z:155:GLN:HE21	1:Z:224:MET:HE3	1.76	0.50
1:Z:293:MET:HG3	1:Z:333:GLU:HB2	1.93	0.50
1:Z:314:SER:HB2	1:3:254:PHE:CZ	2.47	0.50
1:a:332:ASP:OD2	1:a:365:GLN:NE2	2.45	0.50
1:c:238:ASP:O	1:c:241:THR:OG1	2.21	0.50
1:d:332:ASP:OD2	1:d:365:GLN:NE2	2.45	0.50
1:h:64:ASP:OD1	1:h:446:LYS:NZ	2.38	0.50
1:i:266:VAL:HG22	1:j:337:THR:O	2.12	0.50
1:i:309:VAL:HB	1:k:380:TYR:CD1	2.46	0.50
1:i:332:ASP:OD2	1:i:365:GLN:NE2	2.45	0.50
1:k:218:ASP:O	1:w:37:TRP:NE1	2.42	0.50
1:k:293:MET:HG3	1:k:333:GLU:HB2	1.93	0.50
1:o:380:TYR:CD1	1:p:309:VAL:HB	2.46	0.50
1:p:332:ASP:OD2	1:p:365:GLN:NE2	2.45	0.50
1:q:155:GLN:HE21	1:q:224:MET:HE3	1.76	0.50
1:s:293:MET:HG3	1:s:333:GLU:HB2	1.93	0.50
1:t:431:MET:HE1	1:v:265:GLN:HB3	1.94	0.50
1:v:404:ASP:CG	1:v:529:ARG:HH22	2.18	0.50
1:v:410:TYR:HE2	1:v:511:LEU:HD11	1.77	0.50
1:w:337:THR:O	1:y:266:VAL:HG22	2.12	0.50
1:w:380:TYR:CD1	1:x:309:VAL:HB	2.46	0.50
1:w:410:TYR:HE2	1:w:511:LEU:HD11	1.77	0.50
1:y:288:GLY:N	1:y:403:TRP:HB3	2.25	0.50
1:y:332:ASP:OD2	1:y:365:GLN:NE2	2.45	0.50
1:z:410:TYR:HE2	1:z:511:LEU:HD11	1.77	0.50
1:5:296:GLY:O	1:7:269:ARG:CG	2.59	0.50
1:6:332:ASP:OD2	1:6:365:GLN:NE2	2.45	0.50
1:A:264:TRP:CH2	1:G:341:PRO:HG3	2.46	0.50
1:A:285:TRP:CD2	1:G:419:PRO:HD3	2.46	0.50
1:A:309:VAL:HB	1:I:380:TYR:CD1	2.46	0.50
1:A:404:ASP:CG	1:A:529:ARG:HH22	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:TYR:HE2	1:A:511:LEU:HD11	1.77	0.50
1:C:151:THR:HG21	1:D:227:THR:HG21	1.92	0.50
1:C:309:VAL:HB	1:M:380:TYR:CD1	2.46	0.50
1:D:332:ASP:OD2	1:D:365:GLN:NE2	2.45	0.50
1:D:337:THR:O	1:P:266:VAL:HG22	2.12	0.50
1:F:288:GLY:N	1:F:403:TRP:HB3	2.25	0.50
1:G:29:GLY:N	1:G:32:GLU:OE2	2.39	0.50
1:G:227:THR:HG21	1:W:151:THR:HG21	1.92	0.50
1:G:380:TYR:CD1	1:I:309:VAL:HB	2.46	0.50
1:H:151:THR:C	1:Z:133:GLN:HE21	2.19	0.50
1:H:380:TYR:CD1	1:W:309:VAL:HB	2.47	0.50
1:I:332:ASP:OD2	1:I:365:GLN:NE2	2.45	0.50
1:J:155:GLN:HE21	1:J:224:MET:HE3	1.76	0.50
1:L:410:TYR:HE2	1:L:511:LEU:HD11	1.77	0.50
1:N:332:ASP:OD2	1:N:365:GLN:NE2	2.45	0.50
1:N:404:ASP:CG	1:N:529:ARG:HH22	2.18	0.50
1:O:293:MET:HG3	1:O:333:GLU:HB2	1.93	0.50
1:P:332:ASP:OD2	1:P:365:GLN:NE2	2.45	0.50
1:R:337:THR:O	1:U:266:VAL:HG22	2.12	0.50
1:V:254:PHE:CZ	1:e:314:SER:HB2	2.47	0.50
1:V:293:MET:HG3	1:V:333:GLU:HB2	1.93	0.50
1:V:309:VAL:HB	1:X:380:TYR:CD1	2.46	0.50
1:X:64:ASP:OD1	1:X:446:LYS:NZ	2.38	0.50
1:X:332:ASP:OD2	1:X:365:GLN:NE2	2.45	0.50
1:Z:296:GLY:O	1:3:269:ARG:CG	2.59	0.50
1:Z:309:VAL:HB	1:3:380:TYR:CD1	2.46	0.50
1:a:380:TYR:CD1	1:8:309:VAL:HB	2.46	0.50
1:c:296:GLY:O	1:p:269:ARG:CG	2.59	0.50
1:c:314:SER:HB2	1:p:254:PHE:CZ	2.47	0.50
1:e:410:TYR:HE2	1:e:511:LEU:HD11	1.77	0.50
1:g:155:GLN:HE21	1:g:224:MET:HE3	1.76	0.50
1:j:266:VAL:HG22	1:k:337:THR:O	2.12	0.50
1:j:332:ASP:OD2	1:j:365:GLN:NE2	2.45	0.50
1:j:380:TYR:CD1	1:k:309:VAL:HB	2.47	0.50
1:k:332:ASP:OD2	1:k:365:GLN:NE2	2.45	0.50
1:m:410:TYR:HE2	1:m:511:LEU:HD11	1.77	0.50
1:n:332:ASP:OD2	1:n:365:GLN:NE2	2.45	0.50
1:o:332:ASP:OD2	1:o:365:GLN:NE2	2.45	0.50
1:p:293:MET:HG3	1:p:333:GLU:HB2	1.93	0.50
1:q:39:CYS:HB2	1:y:219:GLU:CA	2.34	0.50
1:q:337:THR:O	1:s:266:VAL:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:64:ASP:OD1	1:s:446:LYS:NZ	2.38	0.50
1:t:29:GLY:N	1:t:32:GLU:OE2	2.39	0.50
1:t:314:SER:HB2	1:v:254:PHE:CZ	2.46	0.50
1:u:155:GLN:HE21	1:u:224:MET:HE3	1.76	0.50
1:x:293:MET:HG3	1:x:333:GLU:HB2	1.93	0.50
1:2:155:GLN:HE21	1:2:224:MET:HE3	1.76	0.50
1:3:332:ASP:OD2	1:3:365:GLN:NE2	2.45	0.50
1:5:151:THR:C	1:8:133:GLN:HE21	2.19	0.50
1:7:410:TYR:HE2	1:7:511:LEU:HD11	1.77	0.50
1:8:293:MET:HG3	1:8:333:GLU:HB2	1.93	0.50
1:E:155:GLN:HE21	1:E:224:MET:HE3	1.76	0.50
1:E:337:THR:O	1:F:266:VAL:HG22	2.12	0.50
1:H:296:GLY:O	1:Y:269:ARG:CG	2.59	0.50
1:K:332:ASP:OD2	1:K:365:GLN:NE2	2.45	0.50
1:M:155:GLN:HE21	1:M:224:MET:HE3	1.76	0.50
1:M:332:ASP:OD2	1:M:365:GLN:NE2	2.45	0.50
1:N:266:VAL:HG22	1:P:337:THR:O	2.12	0.50
1:O:133:GLN:HE21	1:P:151:THR:C	2.19	0.50
1:Q:293:MET:HG3	1:Q:333:GLU:HB2	1.93	0.50
1:R:309:VAL:HB	1:U:380:TYR:CD1	2.47	0.50
1:S:293:MET:HG3	1:S:333:GLU:HB2	1.93	0.50
1:T:155:GLN:HE21	1:T:224:MET:HE3	1.76	0.50
1:V:269:ARG:CG	1:e:296:GLY:O	2.59	0.50
1:Z:337:THR:O	1:3:266:VAL:HG22	2.12	0.50
1:a:269:ARG:CG	1:8:296:GLY:O	2.59	0.50
1:b:288:GLY:N	1:b:403:TRP:HB3	2.25	0.50
1:c:309:VAL:HB	1:p:380:TYR:CD1	2.46	0.50
1:c:410:TYR:HE2	1:c:511:LEU:HD11	1.77	0.50
1:d:265:GLN:HB3	1:l:431:MET:HE1	1.92	0.50
1:g:337:THR:O	1:h:266:VAL:HG22	2.12	0.50
1:h:155:GLN:HE21	1:h:224:MET:HE3	1.76	0.50
1:h:332:ASP:OD2	1:h:365:GLN:NE2	2.45	0.50
1:j:151:THR:C	1:l:133:GLN:HE21	2.19	0.50
1:j:269:ARG:CG	1:k:296:GLY:O	2.59	0.50
1:l:410:TYR:HE2	1:l:511:LEU:HD11	1.77	0.50
1:m:155:GLN:HE21	1:m:224:MET:HE3	1.76	0.50
1:n:64:ASP:OD1	1:n:446:LYS:NZ	2.38	0.50
1:o:64:ASP:OD1	1:o:446:LYS:NZ	2.38	0.50
1:r:151:THR:HG21	1:x:227:THR:HG21	1.92	0.50
1:u:332:ASP:OD2	1:u:365:GLN:NE2	2.45	0.50
1:w:155:GLN:HE21	1:w:224:MET:HE3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:64:ASP:OD1	1:x:446:LYS:NZ	2.38	0.50
1:x:288:GLY:N	1:x:403:TRP:HB3	2.25	0.50
1:5:332:ASP:OD2	1:5:365:GLN:NE2	2.45	0.50
1:5:380:TYR:CD1	1:6:309:VAL:HB	2.47	0.50
1:6:266:VAL:HG22	1:7:337:THR:O	2.12	0.50
1:A:296:GLY:O	1:I:269:ARG:CG	2.56	0.50
1:B:296:GLY:O	1:L:269:ARG:CG	2.59	0.50
1:B:309:VAL:HB	1:L:380:TYR:CD1	2.46	0.50
1:F:151:THR:HG21	1:R:227:THR:HG21	1.92	0.50
1:G:37:TRP:NE1	1:W:218:ASP:O	2.42	0.50
1:H:293:MET:HG3	1:H:333:GLU:HB2	1.93	0.50
1:J:380:TYR:CD1	1:L:309:VAL:HB	2.46	0.50
1:K:218:ASP:O	1:7:37:TRP:NE1	2.42	0.50
1:K:296:GLY:O	1:8:269:ARG:CG	2.60	0.50
1:M:183:ILE:HD12	1:N:458:TYR:OH	2.12	0.50
1:N:382:ALA:HA	1:P:307:PRO:HB3	1.92	0.50
1:O:410:TYR:HE2	1:O:511:LEU:HD11	1.77	0.50
1:Q:404:ASP:CG	1:Q:529:ARG:HH22	2.18	0.50
1:T:410:TYR:HE2	1:T:511:LEU:HD11	1.77	0.50
1:V:380:TYR:CD1	1:e:309:VAL:HB	2.46	0.50
1:W:266:VAL:HG22	1:Y:337:THR:O	2.12	0.50
1:Y:37:TRP:NE1	1:4:218:ASP:O	2.42	0.50
1:Z:269:ARG:CG	1:4:296:GLY:O	2.60	0.50
1:Z:285:TRP:HZ3	1:4:416:GLN:HE21	1.60	0.50
1:Z:431:MET:HE1	1:3:265:GLN:HB3	1.92	0.50
1:a:265:GLN:HB3	1:8:431:MET:HE1	1.92	0.50
1:a:266:VAL:HG22	1:8:337:THR:O	2.12	0.50
1:d:29:GLY:N	1:d:32:GLU:OE2	2.39	0.50
1:e:34:THR:HG1	1:e:131:ASN:H	1.60	0.50
1:g:309:VAL:HB	1:h:380:TYR:CD1	2.46	0.50
1:h:183:ILE:HD12	1:i:458:TYR:OH	2.12	0.50
1:l:293:MET:HG3	1:l:333:GLU:HB2	1.93	0.50
1:q:227:THR:HG21	1:y:151:THR:HG21	1.93	0.50
1:q:309:VAL:HB	1:s:380:TYR:CD1	2.47	0.50
1:r:293:MET:HG3	1:r:333:GLU:HB2	1.93	0.50
1:t:277:HIS:CD2	1:u:84:THR:OG1	2.51	0.50
1:u:380:TYR:CD1	1:v:309:VAL:HB	2.46	0.50
1:v:219:GLU:CA	1:1:39:CYS:HB2	2.34	0.50
1:v:227:THR:HG21	1:w:151:THR:HG21	1.92	0.50
1:x:404:ASP:CG	1:x:529:ARG:HH22	2.18	0.50
1:1:64:ASP:OD1	1:1:446:LYS:NZ	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:332:ASP:OD2	1:4:365:GLN:NE2	2.45	0.50
1:6:277:HIS:CD2	1:7:84:THR:OG1	2.52	0.50
1:A:285:TRP:HZ3	1:G:416:GLN:HE21	1.59	0.50
1:B:64:ASP:OD1	1:B:446:LYS:NZ	2.38	0.50
1:B:312:GLY:O	1:L:377:ARG:HD3	2.12	0.50
1:C:332:ASP:OD2	1:C:365:GLN:NE2	2.45	0.50
1:D:218:ASP:O	1:E:37:TRP:NE1	2.42	0.50
1:F:293:MET:HG3	1:F:333:GLU:HB2	1.93	0.50
1:F:296:GLY:O	1:Q:269:ARG:CG	2.59	0.50
1:G:64:ASP:OD1	1:G:446:LYS:NZ	2.38	0.50
1:G:254:PHE:CZ	1:I:314:SER:HB2	2.47	0.50
1:H:307:PRO:HB3	1:Y:382:ALA:HA	1.92	0.50
1:H:314:SER:HB2	1:Y:254:PHE:CZ	2.47	0.50
1:H:332:ASP:OD2	1:H:365:GLN:NE2	2.45	0.50
1:J:186:LEU:N	1:J:186:LEU:HD12	2.27	0.50
1:J:254:PHE:CZ	1:L:314:SER:HB2	2.47	0.50
1:K:416:GLN:HE21	1:8:285:TRP:HZ3	1.60	0.50
1:M:410:TYR:HE2	1:M:511:LEU:HD11	1.77	0.50
1:O:337:THR:O	1:n:266:VAL:HG22	2.12	0.50
1:Q:227:THR:HG21	1:S:151:THR:HG21	1.92	0.50
1:Q:288:GLY:N	1:Q:403:TRP:HB3	2.25	0.50
1:R:410:TYR:HE2	1:R:511:LEU:HD11	1.77	0.50
1:S:410:TYR:HE2	1:S:511:LEU:HD11	1.77	0.50
1:U:133:GLN:HE21	1:e:151:THR:C	2.19	0.50
1:U:332:ASP:OD2	1:U:365:GLN:NE2	2.45	0.50
1:V:314:SER:HB2	1:X:254:PHE:CZ	2.47	0.50
1:V:419:PRO:HD3	1:X:285:TRP:CD2	2.47	0.50
1:X:419:PRO:HD3	1:e:285:TRP:CD2	2.47	0.50
1:Y:332:ASP:OD2	1:Y:365:GLN:NE2	2.45	0.50
1:b:332:ASP:OD2	1:b:365:GLN:NE2	2.45	0.50
1:c:151:THR:C	1:s:133:GLN:HE21	2.19	0.50
1:c:285:TRP:CD2	1:o:419:PRO:HD3	2.47	0.50
1:d:266:VAL:HG22	1:l:337:THR:O	2.12	0.50
1:e:155:GLN:HE21	1:e:224:MET:HE3	1.76	0.50
1:f:288:GLY:N	1:f:403:TRP:HB3	2.25	0.50
1:f:332:ASP:OD2	1:f:365:GLN:NE2	2.45	0.50
1:h:293:MET:HG3	1:h:333:GLU:HB2	1.93	0.50
1:i:285:TRP:CD2	1:j:419:PRO:HD3	2.47	0.50
1:o:254:PHE:CZ	1:p:314:SER:HB2	2.47	0.50
1:r:458:TYR:OH	1:x:183:ILE:HD12	2.12	0.50
1:s:332:ASP:OD2	1:s:365:GLN:NE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:279:SER:HG	1:u:314:SER:HB3	1.77	0.50
1:u:285:TRP:CD2	1:v:419:PRO:HD3	2.47	0.50
1:u:382:ALA:HA	1:v:307:PRO:HB3	1.92	0.50
1:x:254:PHE:CZ	1:y:314:SER:HB2	2.47	0.50
1:x:269:ARG:CG	1:y:296:GLY:O	2.59	0.50
1:z:314:SER:HB2	1:2:254:PHE:CZ	2.47	0.50
1:2:186:LEU:HD12	1:2:186:LEU:N	2.27	0.50
1:5:218:ASP:O	1:8:37:TRP:NE1	2.42	0.50
1:5:307:PRO:HB3	1:7:382:ALA:HA	1.92	0.50
1:5:337:THR:O	1:7:266:VAL:HG22	2.12	0.50
1:7:332:ASP:OD2	1:7:365:GLN:NE2	2.45	0.50
1:D:186:LEU:HD12	1:D:186:LEU:N	2.27	0.50
1:D:285:TRP:CD2	1:N:419:PRO:HD3	2.47	0.50
1:D:377:ARG:HD3	1:N:312:GLY:O	2.12	0.50
1:E:332:ASP:OD2	1:E:365:GLN:NE2	2.45	0.50
1:F:314:SER:HB2	1:Q:254:PHE:CZ	2.47	0.50
1:H:337:THR:O	1:Y:266:VAL:HG22	2.12	0.50
1:K:266:VAL:HG22	1:a:337:THR:O	2.12	0.50
1:K:458:TYR:OH	1:7:183:ILE:HD12	2.12	0.50
1:L:183:ILE:HD12	1:b:458:TYR:OH	2.12	0.50
1:O:183:ILE:HD12	1:P:458:TYR:OH	2.12	0.50
1:O:186:LEU:HD12	1:O:186:LEU:N	2.27	0.50
1:O:285:TRP:HZ3	1:m:416:GLN:HE21	1.60	0.50
1:O:431:MET:HE1	1:n:265:GLN:HB3	1.92	0.50
1:Q:183:ILE:HD12	1:S:458:TYR:OH	2.12	0.50
1:Q:410:TYR:HE2	1:Q:511:LEU:HD11	1.77	0.50
1:T:266:VAL:HG22	1:d:337:THR:O	2.12	0.50
1:T:269:ARG:CG	1:d:296:GLY:O	2.59	0.50
1:U:185:TYR:CE2	1:U:348:GLU:O	2.65	0.50
1:V:458:TYR:OH	1:W:183:ILE:HD12	2.12	0.50
1:X:183:ILE:HD12	1:Y:458:TYR:OH	2.12	0.50
1:Y:183:ILE:HD12	1:4:458:TYR:OH	2.12	0.50
1:Y:186:LEU:HD12	1:Y:186:LEU:N	2.27	0.50
1:Z:277:HIS:CD2	1:4:84:THR:OG1	2.52	0.50
1:c:155:GLN:HE21	1:c:224:MET:HE3	1.76	0.50
1:d:254:PHE:CZ	1:l:314:SER:HB2	2.46	0.50
1:f:458:TYR:OH	1:z:183:ILE:HD12	2.12	0.50
1:g:185:TYR:CE2	1:g:348:GLU:O	2.65	0.50
1:g:332:ASP:OD2	1:g:365:GLN:NE2	2.45	0.50
1:i:382:ALA:HA	1:j:307:PRO:HB3	1.92	0.50
1:k:410:TYR:HE2	1:k:511:LEU:HD11	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:186:LEU:HD12	1:l:186:LEU:N	2.27	0.50
1:l:238:ASP:O	1:l:241:THR:OG1	2.21	0.50
1:o:285:TRP:CD2	1:p:419:PRO:HD3	2.47	0.50
1:q:269:ARG:CG	1:r:296:GLY:O	2.59	0.50
1:q:410:TYR:HE2	1:q:511:LEU:HD11	1.77	0.50
1:r:410:TYR:HE2	1:r:511:LEU:HD11	1.77	0.50
1:s:185:TYR:CE2	1:s:348:GLU:O	2.65	0.50
1:t:172:GLN:HA	1:v:263:THR:HA	1.92	0.50
1:t:332:ASP:OD2	1:t:365:GLN:NE2	2.45	0.50
1:v:218:ASP:O	1:1:37:TRP:NE1	2.42	0.50
1:w:332:ASP:OD2	1:w:365:GLN:NE2	2.45	0.50
1:z:29:GLY:N	1:z:32:GLU:OE2	2.39	0.50
1:z:269:ARG:CG	1:1:296:GLY:O	2.59	0.50
1:z:309:VAL:HB	1:2:380:TYR:CD1	2.46	0.50
1:z:380:TYR:CD1	1:1:309:VAL:HB	2.47	0.50
1:2:34:THR:HG1	1:2:131:ASN:H	1.59	0.50
1:3:312:GLY:O	1:4:377:ARG:HD3	2.12	0.50
1:3:337:THR:O	1:4:266:VAL:HG22	2.12	0.50
1:5:293:MET:HG3	1:5:333:GLU:HB2	1.93	0.50
1:5:314:SER:HB2	1:7:254:PHE:CZ	2.47	0.50
1:6:410:TYR:HE2	1:6:511:LEU:HD11	1.77	0.50
1:A:64:ASP:OD1	1:A:446:LYS:NZ	2.38	0.49
1:A:155:GLN:HE21	1:A:224:MET:HE3	1.76	0.49
1:A:382:ALA:HA	1:G:307:PRO:HB3	1.92	0.49
1:A:483:TRP:CZ3	1:F:106:SER:HB3	2.47	0.49
1:C:185:TYR:CE2	1:C:348:GLU:O	2.65	0.49
1:C:410:TYR:HE2	1:C:511:LEU:HD11	1.77	0.49
1:F:183:ILE:HD12	1:G:458:TYR:OH	2.12	0.49
1:F:410:TYR:HE2	1:F:511:LEU:HD11	1.77	0.49
1:G:185:TYR:CE2	1:G:348:GLU:O	2.65	0.49
1:G:332:ASP:OD2	1:G:365:GLN:NE2	2.45	0.49
1:H:218:ASP:O	1:Z:37:TRP:NE1	2.42	0.49
1:K:377:ARG:HD3	1:a:312:GLY:O	2.12	0.49
1:M:185:TYR:CE2	1:M:348:GLU:O	2.65	0.49
1:M:416:GLN:HE21	1:b:285:TRP:HZ3	1.60	0.49
1:N:285:TRP:CD2	1:P:419:PRO:HD3	2.47	0.49
1:S:183:ILE:HD12	1:d:458:TYR:OH	2.12	0.49
1:T:78:PHE:CE2	1:T:303:LEU:HA	2.47	0.49
1:T:332:ASP:OD2	1:T:365:GLN:NE2	2.45	0.49
1:W:410:TYR:HE2	1:W:511:LEU:HD11	1.77	0.49
1:X:458:TYR:OH	1:f:183:ILE:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:185:TYR:CE2	1:Y:348:GLU:O	2.65	0.49
1:Z:419:PRO:HD3	1:3:285:TRP:CD2	2.47	0.49
1:a:185:TYR:CE2	1:a:348:GLU:O	2.65	0.49
1:a:285:TRP:CD2	1:8:419:PRO:HD3	2.47	0.49
1:b:183:ILE:HD12	1:o:458:TYR:OH	2.12	0.49
1:d:285:TRP:CD2	1:l:419:PRO:HD3	2.47	0.49
1:f:78:PHE:CE2	1:f:303:LEU:HA	2.47	0.49
1:f:285:TRP:HZ3	1:h:416:GLN:HE21	1.60	0.49
1:g:64:ASP:OD1	1:g:446:LYS:NZ	2.38	0.49
1:h:185:TYR:CE2	1:h:348:GLU:O	2.65	0.49
1:i:279:SER:HG	1:j:314:SER:HB3	1.77	0.49
1:i:312:GLY:O	1:k:377:ARG:HD3	2.12	0.49
1:i:419:PRO:HD3	1:k:285:TRP:CD2	2.47	0.49
1:k:34:THR:HG1	1:k:131:ASN:H	1.60	0.49
1:m:78:PHE:CE2	1:m:303:LEU:HA	2.47	0.49
1:m:266:VAL:HG22	1:n:337:THR:O	2.12	0.49
1:m:269:ARG:CG	1:n:296:GLY:O	2.59	0.49
1:m:332:ASP:OD2	1:m:365:GLN:NE2	2.45	0.49
1:n:29:GLY:N	1:n:32:GLU:OE2	2.39	0.49
1:n:458:TYR:OH	1:r:183:ILE:HD12	2.12	0.49
1:o:183:ILE:HD12	1:7:458:TYR:OH	2.12	0.49
1:p:458:TYR:OH	1:6:183:ILE:HD12	2.12	0.49
1:q:84:THR:OG1	1:s:277:HIS:CD2	2.52	0.49
1:t:269:ARG:CG	1:u:296:GLY:O	2.60	0.49
1:t:377:ARG:HD3	1:u:312:GLY:O	2.12	0.49
1:t:458:TYR:OH	1:y:183:ILE:HD12	2.12	0.49
1:t:483:TRP:CZ3	1:5:106:SER:HB3	2.47	0.49
1:u:410:TYR:HE2	1:u:511:LEU:HD11	1.77	0.49
1:w:186:LEU:HD12	1:w:186:LEU:N	2.27	0.49
1:x:285:TRP:CD2	1:y:419:PRO:HD3	2.47	0.49
1:x:410:TYR:HE2	1:x:511:LEU:HD11	1.77	0.49
1:y:293:MET:HG3	1:y:333:GLU:HB2	1.93	0.49
1:z:377:ARG:HD3	1:1:312:GLY:O	2.12	0.49
1:3:185:TYR:CE2	1:3:348:GLU:O	2.65	0.49
1:7:185:TYR:CE2	1:7:348:GLU:O	2.65	0.49
1:8:410:TYR:HE2	1:8:511:LEU:HD11	1.77	0.49
1:A:227:THR:HG21	1:E:151:THR:HG21	1.92	0.49
1:B:377:ARG:HD3	1:J:312:GLY:O	2.12	0.49
1:D:410:TYR:HE2	1:D:511:LEU:HD11	1.77	0.49
1:E:186:LEU:HD12	1:E:186:LEU:N	2.27	0.49
1:F:419:PRO:HD3	1:Q:285:TRP:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:266:VAL:HG22	1:I:337:THR:O	2.12	0.49
1:H:78:PHE:CE2	1:H:303:LEU:HA	2.47	0.49
1:H:419:PRO:HD3	1:Y:285:TRP:CD2	2.47	0.49
1:J:183:ILE:HD12	1:a:458:TYR:OH	2.12	0.49
1:J:332:ASP:OD2	1:J:365:GLN:NE2	2.45	0.49
1:J:377:ARG:HD3	1:L:312:GLY:O	2.12	0.49
1:K:312:GLY:O	1:8:377:ARG:HD3	2.12	0.49
1:K:337:THR:O	1:8:266:VAL:HG22	2.11	0.49
1:O:39:CYS:HB2	1:P:219:GLU:CA	2.34	0.49
1:O:185:TYR:CE2	1:O:348:GLU:O	2.65	0.49
1:O:314:SER:HB2	1:n:254:PHE:CZ	2.47	0.49
1:O:419:PRO:HD3	1:n:285:TRP:CD2	2.48	0.49
1:Q:186:LEU:HD12	1:Q:186:LEU:N	2.27	0.49
1:R:269:ARG:CG	1:S:296:GLY:O	2.59	0.49
1:S:185:TYR:CE2	1:S:348:GLU:O	2.65	0.49
1:S:186:LEU:HD12	1:S:186:LEU:N	2.27	0.49
1:V:186:LEU:HD12	1:V:186:LEU:N	2.27	0.49
1:V:285:TRP:CD2	1:e:419:PRO:HD3	2.47	0.49
1:W:186:LEU:HD12	1:W:186:LEU:N	2.27	0.49
1:W:285:TRP:CD2	1:Y:419:PRO:HD3	2.47	0.49
1:X:186:LEU:HD12	1:X:186:LEU:N	2.27	0.49
1:X:238:ASP:O	1:X:241:THR:OG1	2.21	0.49
1:Z:186:LEU:HD12	1:Z:186:LEU:N	2.27	0.49
1:Z:377:ARG:HD3	1:4:312:GLY:O	2.12	0.49
1:Z:410:TYR:HE2	1:Z:511:LEU:HD11	1.77	0.49
1:a:186:LEU:HD12	1:a:186:LEU:N	2.27	0.49
1:b:78:PHE:CE2	1:b:303:LEU:HA	2.47	0.49
1:b:185:TYR:CE2	1:b:348:GLU:O	2.65	0.49
1:d:185:TYR:CE2	1:d:348:GLU:O	2.65	0.49
1:f:296:GLY:O	1:g:269:ARG:CG	2.59	0.49
1:g:410:TYR:HE2	1:g:511:LEU:HD11	1.77	0.49
1:h:410:TYR:HE2	1:h:511:LEU:HD11	1.77	0.49
1:i:185:TYR:CE2	1:i:348:GLU:O	2.65	0.49
1:k:186:LEU:HD12	1:k:186:LEU:N	2.27	0.49
1:l:78:PHE:CE2	1:l:303:LEU:HA	2.47	0.49
1:l:185:TYR:CE2	1:l:348:GLU:O	2.65	0.49
1:n:185:TYR:CE2	1:n:348:GLU:O	2.65	0.49
1:o:186:LEU:HD12	1:o:186:LEU:N	2.27	0.49
1:p:186:LEU:HD12	1:p:186:LEU:N	2.27	0.49
1:r:332:ASP:OD2	1:r:365:GLN:NE2	2.45	0.49
1:t:185:TYR:CE2	1:t:348:GLU:O	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:254:PHE:CZ	1:v:314:SER:HB2	2.47	0.49
1:v:185:TYR:CE2	1:v:348:GLU:O	2.65	0.49
1:x:186:LEU:HD12	1:x:186:LEU:N	2.27	0.49
1:x:266:VAL:HG22	1:y:337:THR:O	2.12	0.49
1:y:410:TYR:HE2	1:y:511:LEU:HD11	1.77	0.49
1:z:312:GLY:O	1:2:377:ARG:HD3	2.12	0.49
1:1:377:ARG:HD3	1:2:312:GLY:O	2.12	0.49
1:2:332:ASP:OD2	1:2:365:GLN:NE2	2.45	0.49
1:3:186:LEU:HD12	1:3:186:LEU:N	2.27	0.49
1:4:293:MET:HG3	1:4:333:GLU:HB2	1.93	0.49
1:5:78:PHE:CE2	1:5:303:LEU:HA	2.47	0.49
1:5:419:PRO:HD3	1:7:285:TRP:CD2	2.47	0.49
1:6:186:LEU:HD12	1:6:186:LEU:N	2.27	0.49
1:6:285:TRP:CD2	1:7:419:PRO:HD3	2.47	0.49
1:7:106:SER:HB3	1:8:483:TRP:CZ3	2.47	0.49
1:7:186:LEU:HD12	1:7:186:LEU:N	2.27	0.49
1:8:186:LEU:HD12	1:8:186:LEU:N	2.27	0.49
1:A:172:GLN:HA	1:I:263:THR:HA	1.93	0.49
1:A:185:TYR:CE2	1:A:348:GLU:O	2.65	0.49
1:A:332:ASP:OD2	1:A:365:GLN:NE2	2.45	0.49
1:B:78:PHE:CE2	1:B:303:LEU:HA	2.47	0.49
1:B:185:TYR:CE2	1:B:348:GLU:O	2.65	0.49
1:B:266:VAL:HG22	1:J:337:THR:O	2.12	0.49
1:B:337:THR:O	1:L:266:VAL:HG22	2.12	0.49
1:C:266:VAL:HG22	1:b:337:THR:O	2.12	0.49
1:C:269:ARG:CG	1:b:296:GLY:O	2.59	0.49
1:C:416:GLN:HE21	1:M:285:TRP:HZ3	1.60	0.49
1:D:151:THR:HG21	1:E:227:THR:HG21	1.92	0.49
1:D:254:PHE:CZ	1:N:314:SER:HB2	2.47	0.49
1:E:135:ILE:HD11	1:E:464:THR:HG22	1.95	0.49
1:E:185:TYR:CE2	1:E:348:GLU:O	2.65	0.49
1:E:254:PHE:CZ	1:Q:314:SER:HB2	2.47	0.49
1:F:312:GLY:O	1:Q:377:ARG:HD3	2.12	0.49
1:F:337:THR:O	1:Q:266:VAL:HG22	2.12	0.49
1:G:285:TRP:CD2	1:I:419:PRO:HD3	2.47	0.49
1:G:377:ARG:HD3	1:I:312:GLY:O	2.12	0.49
1:I:410:TYR:HE2	1:I:511:LEU:HD11	1.77	0.49
1:J:34:THR:HG1	1:J:131:ASN:H	1.59	0.49
1:K:84:THR:OG1	1:8:277:HIS:CD2	2.52	0.49
1:K:285:TRP:CD2	1:a:419:PRO:HD3	2.47	0.49
1:L:29:GLY:N	1:L:32:GLU:OE2	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:293:MET:HG3	1:M:333:GLU:HB2	1.93	0.49
1:N:185:TYR:CE2	1:N:348:GLU:O	2.65	0.49
1:O:78:PHE:CE2	1:O:303:LEU:HA	2.48	0.49
1:O:238:ASP:O	1:O:241:THR:OG1	2.21	0.49
1:Q:135:ILE:HD11	1:Q:464:THR:HG22	1.95	0.49
1:T:416:GLN:HE21	1:l:285:TRP:HZ3	1.60	0.49
1:V:219:GLU:CA	1:W:39:CYS:HB2	2.34	0.49
1:Y:78:PHE:CE2	1:Y:303:LEU:HA	2.47	0.49
1:Y:106:SER:HB3	1:Z:483:TRP:CZ3	2.48	0.49
1:Z:78:PHE:CE2	1:Z:303:LEU:HA	2.48	0.49
1:Z:266:VAL:HG22	1:4:337:THR:O	2.11	0.49
1:Z:332:ASP:OD2	1:Z:365:GLN:NE2	2.45	0.49
1:b:410:TYR:HE2	1:b:511:LEU:HD11	1.77	0.49
1:c:185:TYR:CE2	1:c:348:GLU:O	2.65	0.49
1:c:419:PRO:HD3	1:p:285:TRP:CD2	2.47	0.49
1:d:410:TYR:HE2	1:d:511:LEU:HD11	1.77	0.49
1:f:185:TYR:CE2	1:f:348:GLU:O	2.65	0.49
1:g:416:GLN:HE21	1:h:285:TRP:HZ3	1.60	0.49
1:i:314:SER:HB2	1:k:254:PHE:CZ	2.47	0.49
1:j:285:TRP:CD2	1:k:419:PRO:HD3	2.47	0.49
1:k:151:THR:HG21	1:w:227:THR:HG21	1.92	0.49
1:n:410:TYR:HE2	1:n:511:LEU:HD11	1.77	0.49
1:p:64:ASP:OD1	1:p:446:LYS:NZ	2.38	0.49
1:q:183:ILE:HD12	1:y:458:TYR:OH	2.12	0.49
1:r:185:TYR:CE2	1:r:348:GLU:O	2.65	0.49
1:r:186:LEU:HD12	1:r:186:LEU:N	2.27	0.49
1:t:64:ASP:OD1	1:t:446:LYS:NZ	2.38	0.49
1:v:155:GLN:HE21	1:v:224:MET:HE3	1.76	0.49
1:v:332:ASP:OD2	1:v:365:GLN:NE2	2.45	0.49
1:w:254:PHE:CZ	1:x:314:SER:HB2	2.47	0.49
1:x:135:ILE:HD11	1:x:464:THR:HG22	1.95	0.49
1:y:135:ILE:HD11	1:y:464:THR:HG22	1.95	0.49
1:1:185:TYR:CE2	1:1:348:GLU:O	2.65	0.49
1:1:332:ASP:OD2	1:1:365:GLN:NE2	2.45	0.49
1:1:380:TYR:CD1	1:2:309:VAL:HB	2.46	0.49
1:2:183:ILE:HD12	1:3:458:TYR:OH	2.12	0.49
1:3:419:PRO:HD3	1:4:285:TRP:CD2	2.47	0.49
1:4:135:ILE:HD11	1:4:464:THR:HG22	1.95	0.49
1:4:185:TYR:CE2	1:4:348:GLU:O	2.65	0.49
1:A:78:PHE:CE2	1:A:303:LEU:HA	2.48	0.49
1:B:269:ARG:CG	1:J:296:GLY:O	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:SER:HB2	1:L:254:PHE:CZ	2.47	0.49
1:B:380:TYR:CD1	1:J:309:VAL:HB	2.46	0.49
1:C:117:ALA:HB2	1:C:475:TYR:CD1	2.48	0.49
1:D:314:SER:HB2	1:P:254:PHE:CZ	2.47	0.49
1:D:419:PRO:HD3	1:P:285:TRP:CD2	2.47	0.49
1:F:135:ILE:HD11	1:F:464:THR:HG22	1.95	0.49
1:F:458:TYR:OH	1:R:183:ILE:HD12	2.12	0.49
1:K:135:ILE:HD11	1:K:464:THR:HG22	1.95	0.49
1:K:185:TYR:CE2	1:K:348:GLU:O	2.65	0.49
1:K:269:ARG:CG	1:a:296:GLY:O	2.59	0.49
1:N:155:GLN:HE21	1:N:224:MET:HE3	1.76	0.49
1:O:323:PRO:O	1:O:375:ASN:ND2	2.46	0.49
1:R:296:GLY:O	1:U:269:ARG:CG	2.59	0.49
1:R:323:PRO:O	1:R:375:ASN:ND2	2.46	0.49
1:S:332:ASP:OD2	1:S:365:GLN:NE2	2.45	0.49
1:T:323:PRO:O	1:T:375:ASN:ND2	2.46	0.49
1:V:185:TYR:CE2	1:V:348:GLU:O	2.65	0.49
1:V:337:THR:O	1:X:266:VAL:HG22	2.12	0.49
1:Y:117:ALA:HB2	1:Y:475:TYR:CD1	2.48	0.49
1:Z:135:ILE:HD11	1:Z:464:THR:HG22	1.95	0.49
1:Z:185:TYR:CE2	1:Z:348:GLU:O	2.65	0.49
1:b:155:GLN:HE21	1:b:224:MET:HE3	1.76	0.49
1:d:264:TRP:CH2	1:l:341:PRO:HG3	2.48	0.49
1:e:185:TYR:CE2	1:e:348:GLU:O	2.65	0.49
1:f:155:GLN:HE21	1:f:224:MET:HE3	1.76	0.49
1:f:337:THR:O	1:g:266:VAL:HG22	2.12	0.49
1:f:410:TYR:HE2	1:f:511:LEU:HD11	1.77	0.49
1:f:419:PRO:HD3	1:g:285:TRP:CD2	2.47	0.49
1:g:117:ALA:HB2	1:g:475:TYR:CD1	2.48	0.49
1:i:155:GLN:HE21	1:i:224:MET:HE3	1.76	0.49
1:j:458:TYR:OH	1:l:183:ILE:HD12	2.12	0.49
1:l:323:PRO:O	1:l:375:ASN:ND2	2.46	0.49
1:m:323:PRO:O	1:m:375:ASN:ND2	2.46	0.49
1:o:277:HIS:CD2	1:p:84:THR:OG1	2.52	0.49
1:o:377:ARG:HD3	1:p:312:GLY:O	2.12	0.49
1:q:323:PRO:O	1:q:375:ASN:ND2	2.46	0.49
1:t:264:TRP:CH2	1:u:341:PRO:HG3	2.47	0.49
1:v:78:PHE:CE2	1:v:303:LEU:HA	2.47	0.49
1:w:135:ILE:HD11	1:w:464:THR:HG22	1.95	0.49
1:w:185:TYR:CE2	1:w:348:GLU:O	2.65	0.49
1:x:377:ARG:HD3	1:y:312:GLY:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:266:VAL:HG22	1:1:337:THR:O	2.12	0.49
1:z:285:TRP:HZ3	1:1:416:GLN:HE21	1.60	0.49
1:z:419:PRO:HD3	1:2:285:TRP:CD2	2.47	0.49
1:1:78:PHE:CE2	1:1:303:LEU:HA	2.47	0.49
1:1:266:VAL:HG22	1:2:337:THR:O	2.12	0.49
1:2:64:ASP:OD1	1:2:446:LYS:NZ	2.38	0.49
1:3:296:GLY:O	1:4:269:ARG:CG	2.59	0.49
1:4:78:PHE:CE2	1:4:303:LEU:HA	2.48	0.49
1:5:185:TYR:CE2	1:5:348:GLU:O	2.65	0.49
1:5:254:PHE:CZ	1:6:314:SER:HB2	2.47	0.49
1:7:78:PHE:CE2	1:7:303:LEU:HA	2.47	0.49
1:8:78:PHE:CE2	1:8:303:LEU:HA	2.48	0.49
1:8:185:TYR:CE2	1:8:348:GLU:O	2.65	0.49
1:A:117:ALA:HB2	1:A:475:TYR:CD1	2.48	0.49
1:B:416:GLN:HE21	1:L:285:TRP:HZ3	1.60	0.49
1:C:64:ASP:OD1	1:C:446:LYS:NZ	2.38	0.49
1:C:285:TRP:CD2	1:b:419:PRO:HD3	2.47	0.49
1:C:293:MET:HG3	1:C:333:GLU:HB2	1.93	0.49
1:C:312:GLY:O	1:M:377:ARG:HD3	2.12	0.49
1:C:323:PRO:O	1:C:375:ASN:ND2	2.46	0.49
1:C:458:TYR:OH	1:D:183:ILE:HD12	2.12	0.49
1:D:117:ALA:HB2	1:D:475:TYR:CD1	2.48	0.49
1:F:186:LEU:HD12	1:F:186:LEU:N	2.27	0.49
1:G:277:HIS:CD2	1:I:84:THR:OG1	2.52	0.49
1:H:185:TYR:CE2	1:H:348:GLU:O	2.65	0.49
1:H:254:PHE:CZ	1:W:314:SER:HB2	2.47	0.49
1:J:285:TRP:CD2	1:L:419:PRO:HD3	2.47	0.49
1:J:410:TYR:HE2	1:J:511:LEU:HD11	1.77	0.49
1:K:78:PHE:CE2	1:K:303:LEU:HA	2.48	0.49
1:K:293:MET:HG3	1:K:333:GLU:HB2	1.93	0.49
1:M:165:PRO:O	1:M:189:TYR:OH	2.20	0.49
1:M:314:SER:HB2	1:b:254:PHE:CZ	2.47	0.49
1:M:337:THR:O	1:b:266:VAL:HG22	2.12	0.49
1:N:186:LEU:HD12	1:N:186:LEU:N	2.27	0.49
1:P:186:LEU:HD12	1:P:186:LEU:N	2.27	0.49
1:Q:323:PRO:O	1:Q:375:ASN:ND2	2.46	0.49
1:R:84:THR:OG1	1:U:277:HIS:CD2	2.52	0.49
1:T:285:TRP:CD2	1:d:419:PRO:HD3	2.47	0.49
1:V:84:THR:OG1	1:X:277:HIS:CD2	2.52	0.49
1:V:312:GLY:O	1:X:377:ARG:HD3	2.12	0.49
1:f:186:LEU:HD12	1:f:186:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:254:PHE:CZ	1:h:314:SER:HB2	2.47	0.49
1:f:285:TRP:CD2	1:h:419:PRO:HD3	2.47	0.49
1:f:309:VAL:HB	1:g:380:TYR:CD1	2.46	0.49
1:f:377:ARG:HD3	1:h:312:GLY:O	2.12	0.49
1:g:323:PRO:O	1:g:375:ASN:ND2	2.46	0.49
1:g:458:TYR:OH	1:k:183:ILE:HD12	2.12	0.49
1:i:307:PRO:HB3	1:k:382:ALA:HA	1.92	0.49
1:i:337:THR:O	1:k:266:VAL:HG22	2.12	0.49
1:j:78:PHE:CE2	1:j:303:LEU:HA	2.48	0.49
1:k:117:ALA:HB2	1:k:475:TYR:CD1	2.48	0.49
1:l:117:ALA:HB2	1:l:475:TYR:CD1	2.48	0.49
1:m:185:TYR:CE2	1:m:348:GLU:O	2.65	0.49
1:p:185:TYR:CE2	1:p:348:GLU:O	2.65	0.49
1:q:266:VAL:HG22	1:r:337:THR:O	2.12	0.49
1:q:285:TRP:CD2	1:r:419:PRO:HD3	2.47	0.49
1:q:296:GLY:O	1:s:269:ARG:CG	2.59	0.49
1:u:185:TYR:CE2	1:u:348:GLU:O	2.65	0.49
1:u:277:HIS:CD2	1:v:84:THR:OG1	2.52	0.49
1:v:64:ASP:OD1	1:v:446:LYS:NZ	2.38	0.49
1:v:117:ALA:HB2	1:v:475:TYR:CD1	2.48	0.49
1:x:323:PRO:O	1:x:375:ASN:ND2	2.46	0.49
1:y:186:LEU:HD12	1:y:186:LEU:N	2.27	0.49
1:1:269:ARG:CG	1:2:296:GLY:O	2.59	0.49
1:5:266:VAL:HG22	1:6:337:THR:O	2.12	0.49
1:6:78:PHE:CE2	1:6:303:LEU:HA	2.48	0.49
1:7:117:ALA:HB2	1:7:475:TYR:CD1	2.48	0.49
1:8:135:ILE:HD11	1:8:464:THR:HG22	1.95	0.49
1:8:332:ASP:OD2	1:8:365:GLN:NE2	2.45	0.49
1:B:332:ASP:OD2	1:B:365:GLN:NE2	2.45	0.49
1:C:78:PHE:CE2	1:C:303:LEU:HA	2.48	0.49
1:C:380:TYR:CD1	1:b:309:VAL:HB	2.46	0.49
1:C:419:PRO:HD3	1:M:285:TRP:CD2	2.47	0.49
1:D:266:VAL:HG22	1:N:337:THR:O	2.12	0.49
1:D:382:ALA:HA	1:N:307:PRO:HB3	1.92	0.49
1:E:285:TRP:HZ3	1:Q:416:GLN:HE21	1.60	0.49
1:H:285:TRP:CD2	1:W:419:PRO:HD3	2.47	0.49
1:I:117:ALA:HB2	1:I:475:TYR:CD1	2.48	0.49
1:I:185:TYR:CE2	1:I:348:GLU:O	2.65	0.49
1:J:64:ASP:OD1	1:J:446:LYS:NZ	2.38	0.49
1:J:135:ILE:HD11	1:J:464:THR:HG22	1.95	0.49
1:K:186:LEU:HD12	1:K:186:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:380:TYR:CD1	1:a:309:VAL:HB	2.46	0.49
1:L:186:LEU:HD12	1:L:186:LEU:N	2.27	0.49
1:M:309:VAL:HB	1:b:380:TYR:CD1	2.46	0.49
1:N:269:ARG:CG	1:P:296:GLY:O	2.59	0.49
1:O:117:ALA:HB2	1:O:475:TYR:CD1	2.48	0.49
1:O:341:PRO:HG3	1:n:264:TRP:CH2	2.48	0.49
1:P:78:PHE:CE2	1:P:303:LEU:HA	2.48	0.49
1:R:266:VAL:HG22	1:S:337:THR:O	2.12	0.49
1:R:285:TRP:CD2	1:S:419:PRO:HD3	2.47	0.49
1:V:64:ASP:OD1	1:V:446:LYS:NZ	2.38	0.49
1:W:78:PHE:CE2	1:W:303:LEU:HA	2.48	0.49
1:W:380:TYR:CD1	1:Y:309:VAL:HB	2.46	0.49
1:b:186:LEU:HD12	1:b:186:LEU:N	2.27	0.49
1:c:269:ARG:CG	1:o:296:GLY:O	2.59	0.49
1:f:266:VAL:HG22	1:h:337:THR:O	2.12	0.49
1:g:78:PHE:CE2	1:g:303:LEU:HA	2.48	0.49
1:g:293:MET:HG3	1:g:333:GLU:HB2	1.93	0.49
1:i:483:TRP:CZ3	1:l:106:SER:HB3	2.48	0.49
1:j:285:TRP:HZ3	1:k:416:GLN:HE21	1.60	0.49
1:o:238:ASP:O	1:o:241:THR:OG1	2.21	0.49
1:o:266:VAL:HG22	1:p:337:THR:O	2.12	0.49
1:p:219:GLU:CA	1:6:39:CYS:HB2	2.34	0.49
1:t:337:THR:O	1:v:266:VAL:HG22	2.12	0.49
1:w:78:PHE:CE2	1:w:303:LEU:HA	2.47	0.49
1:w:285:TRP:HZ3	1:x:416:GLN:HE21	1.60	0.49
1:z:186:LEU:HD12	1:z:186:LEU:N	2.27	0.49
1:z:254:PHE:CZ	1:1:314:SER:HB2	2.47	0.49
1:1:254:PHE:CZ	1:2:314:SER:HB2	2.47	0.49
1:2:185:TYR:CE2	1:2:348:GLU:O	2.65	0.49
1:2:410:TYR:HE2	1:2:511:LEU:HD11	1.77	0.49
1:3:309:VAL:HB	1:4:380:TYR:CD1	2.46	0.49
1:4:186:LEU:HD12	1:4:186:LEU:N	2.27	0.49
1:6:380:TYR:CD1	1:7:309:VAL:HB	2.46	0.49
1:8:323:PRO:O	1:8:375:ASN:ND2	2.46	0.49
1:A:77:VAL:O	1:I:277:HIS:CE1	2.65	0.49
1:A:291:ILE:HD11	1:I:398:ILE:HG21	1.95	0.49
1:B:254:PHE:CZ	1:J:314:SER:HB2	2.47	0.49
1:B:458:TYR:OH	1:C:183:ILE:HD12	2.12	0.49
1:E:78:PHE:CE2	1:E:303:LEU:HA	2.48	0.49
1:E:117:ALA:HB2	1:E:475:TYR:CD1	2.48	0.49
1:E:269:ARG:CG	1:Q:296:GLY:O	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:314:SER:HB2	1:F:254:PHE:CZ	2.47	0.49
1:E:419:PRO:HD3	1:F:285:TRP:CD2	2.47	0.49
1:F:416:GLN:HE21	1:Q:285:TRP:HZ3	1.61	0.49
1:H:266:VAL:HG22	1:W:337:THR:O	2.12	0.49
1:I:183:ILE:HD12	1:J:458:TYR:OH	2.12	0.49
1:J:185:TYR:CE2	1:J:348:GLU:O	2.65	0.49
1:L:332:ASP:OD2	1:L:365:GLN:NE2	2.45	0.49
1:M:78:PHE:CE2	1:M:303:LEU:HA	2.48	0.49
1:M:312:GLY:O	1:b:377:ARG:HD3	2.12	0.49
1:M:419:PRO:HD3	1:b:285:TRP:CD2	2.47	0.49
1:N:323:PRO:O	1:N:375:ASN:ND2	2.46	0.49
1:O:285:TRP:CD2	1:m:419:PRO:HD3	2.47	0.49
1:P:64:ASP:OD1	1:P:446:LYS:NZ	2.38	0.49
1:P:293:MET:HG3	1:P:333:GLU:HB2	1.93	0.49
1:P:410:TYR:HE2	1:P:511:LEU:HD11	1.77	0.49
1:S:64:ASP:OD1	1:S:446:LYS:NZ	2.38	0.49
1:T:117:ALA:HB2	1:T:475:TYR:CD1	2.48	0.49
1:T:185:TYR:CE2	1:T:348:GLU:O	2.65	0.49
1:T:254:PHE:CZ	1:d:314:SER:HB2	2.47	0.49
1:T:314:SER:HB2	1:l:254:PHE:CZ	2.47	0.49
1:T:419:PRO:HD3	1:l:285:TRP:CD2	2.47	0.49
1:X:84:THR:OG1	1:e:277:HIS:CD2	2.52	0.49
1:X:219:GLU:CA	1:f:39:CYS:HB2	2.34	0.49
1:Z:323:PRO:O	1:Z:375:ASN:ND2	2.46	0.49
1:a:323:PRO:O	1:a:375:ASN:ND2	2.46	0.49
1:c:117:ALA:HB2	1:c:475:TYR:CD1	2.48	0.49
1:c:266:VAL:HG22	1:o:337:THR:O	2.12	0.49
1:c:277:HIS:CD2	1:o:84:THR:OG1	2.52	0.49
1:d:64:ASP:OD1	1:d:446:LYS:NZ	2.38	0.49
1:d:78:PHE:CE2	1:d:303:LEU:HA	2.48	0.49
1:e:117:ALA:HB2	1:e:475:TYR:CD1	2.48	0.49
1:g:183:ILE:HD12	1:1:458:TYR:OH	2.12	0.49
1:g:312:GLY:O	1:h:377:ARG:HD3	2.12	0.49
1:h:78:PHE:CE2	1:h:303:LEU:HA	2.47	0.49
1:i:186:LEU:N	1:i:186:LEU:HD12	2.27	0.49
1:i:323:PRO:O	1:i:375:ASN:ND2	2.46	0.49
1:j:186:LEU:HD12	1:j:186:LEU:N	2.28	0.49
1:j:254:PHE:CZ	1:k:314:SER:HB2	2.47	0.49
1:m:117:ALA:HB2	1:m:475:TYR:CD1	2.48	0.49
1:m:254:PHE:CZ	1:n:314:SER:HB2	2.47	0.49
1:m:285:TRP:CD2	1:n:419:PRO:HD3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:117:ALA:HB2	1:o:475:TYR:CD1	2.48	0.49
1:q:314:SER:HB3	1:s:279:SER:HG	1.77	0.49
1:r:64:ASP:OD1	1:r:446:LYS:NZ	2.38	0.49
1:t:285:TRP:HZ3	1:u:416:GLN:HE21	1.59	0.49
1:t:341:PRO:HG3	1:v:264:TRP:CH2	2.47	0.49
1:t:380:TYR:CD1	1:u:309:VAL:HB	2.48	0.49
1:u:117:ALA:HB2	1:u:475:TYR:CD1	2.48	0.49
1:v:458:TYR:OH	1:1:183:ILE:HD12	2.12	0.49
1:w:117:ALA:HB2	1:w:475:TYR:CD1	2.48	0.49
1:x:285:TRP:HZ3	1:y:416:GLN:HE21	1.60	0.49
1:y:117:ALA:HB2	1:y:475:TYR:CD1	2.48	0.49
1:2:135:ILE:HD11	1:2:464:THR:HG22	1.95	0.49
1:3:323:PRO:O	1:3:375:ASN:ND2	2.46	0.49
1:A:377:ARG:HD3	1:G:312:GLY:O	2.12	0.49
1:E:266:VAL:HG22	1:Q:337:THR:O	2.12	0.49
1:G:323:PRO:O	1:G:375:ASN:ND2	2.46	0.49
1:H:186:LEU:HD12	1:H:186:LEU:N	2.27	0.49
1:J:266:VAL:HG22	1:L:337:THR:O	2.12	0.49
1:M:186:LEU:HD12	1:M:186:LEU:N	2.27	0.49
1:N:483:TRP:CZ3	1:O:106:SER:HB3	2.48	0.49
1:O:254:PHE:CZ	1:m:314:SER:HB2	2.47	0.49
1:O:296:GLY:O	1:n:269:ARG:CG	2.59	0.49
1:Q:78:PHE:CE2	1:Q:303:LEU:HA	2.48	0.49
1:Q:327:ALA:N	1:Q:377:ARG:HH21	2.11	0.49
1:S:135:ILE:HD11	1:S:464:THR:HG22	1.95	0.49
1:U:78:PHE:CE2	1:U:303:LEU:HA	2.48	0.49
1:V:78:PHE:CE2	1:V:303:LEU:HA	2.48	0.49
1:W:285:TRP:HZ3	1:Y:416:GLN:HE21	1.60	0.49
1:X:117:ALA:HB2	1:X:475:TYR:CD1	2.48	0.49
1:X:296:GLY:O	1:e:269:ARG:CG	2.59	0.49
1:X:337:THR:O	1:e:266:VAL:HG22	2.12	0.49
1:X:416:GLN:HE21	1:e:285:TRP:HZ3	1.60	0.49
1:a:264:TRP:CH2	1:8:341:PRO:HG3	2.48	0.49
1:b:135:ILE:HD11	1:b:464:THR:HG22	1.95	0.49
1:b:483:TRP:CZ3	1:c:106:SER:HB3	2.48	0.49
1:e:106:SER:HB3	1:f:483:TRP:CZ3	2.48	0.49
1:f:135:ILE:HD11	1:f:464:THR:HG22	1.95	0.49
1:f:323:PRO:O	1:f:375:ASN:ND2	2.46	0.49
1:f:380:TYR:CD1	1:h:309:VAL:HB	2.46	0.49
1:g:419:PRO:HD3	1:h:285:TRP:CD2	2.47	0.49
1:h:186:LEU:HD12	1:h:186:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:219:GLU:CA	1:l:39:CYS:HB2	2.34	0.49
1:k:135:ILE:HD11	1:k:464:THR:HG22	1.94	0.49
1:n:78:PHE:CE2	1:n:303:LEU:HA	2.48	0.49
1:q:186:LEU:HD12	1:q:186:LEU:N	2.27	0.49
1:q:312:GLY:O	1:s:377:ARG:HD3	2.12	0.49
1:q:314:SER:HB2	1:s:254:PHE:CZ	2.47	0.49
1:s:78:PHE:CE2	1:s:303:LEU:HA	2.48	0.49
1:t:323:PRO:O	1:t:375:ASN:ND2	2.46	0.49
1:v:483:TRP:CZ3	1:y:106:SER:HB3	2.48	0.49
1:w:269:ARG:CG	1:x:296:GLY:O	2.59	0.49
1:w:419:PRO:HD3	1:y:285:TRP:CD2	2.47	0.49
1:x:78:PHE:CE2	1:x:303:LEU:HA	2.48	0.49
1:z:135:ILE:HD11	1:z:464:THR:HG22	1.95	0.49
1:z:332:ASP:OD2	1:z:365:GLN:NE2	2.45	0.49
1:z:337:THR:O	1:2:266:VAL:HG22	2.12	0.49
1:1:285:TRP:CD2	1:2:419:PRO:HD3	2.47	0.49
1:5:186:LEU:HD12	1:5:186:LEU:N	2.27	0.49
1:5:285:TRP:CD2	1:6:419:PRO:HD3	2.47	0.49
1:5:458:TYR:OH	1:8:183:ILE:HD12	2.12	0.49
1:6:135:ILE:HD11	1:6:464:THR:HG22	1.95	0.49
1:6:285:TRP:HZ3	1:7:416:GLN:HE21	1.60	0.49
1:7:135:ILE:HD11	1:7:464:THR:HG22	1.95	0.49
1:A:135:ILE:HD11	1:A:464:THR:HG22	1.95	0.49
1:A:327:ALA:N	1:A:377:ARG:HH21	2.11	0.49
1:B:34:THR:HG1	1:B:131:ASN:H	1.60	0.49
1:B:285:TRP:CD2	1:J:419:PRO:HD3	2.47	0.49
1:D:34:THR:HG1	1:D:131:ASN:H	1.61	0.49
1:D:416:GLN:HE21	1:P:285:TRP:HZ3	1.60	0.49
1:F:29:GLY:N	1:F:32:GLU:OE2	2.39	0.49
1:F:117:ALA:HB2	1:F:475:TYR:CD1	2.48	0.49
1:H:458:TYR:OH	1:Z:183:ILE:HD12	2.12	0.49
1:K:29:GLY:N	1:K:32:GLU:OE2	2.39	0.49
1:K:309:VAL:HB	1:8:380:TYR:CD1	2.47	0.49
1:L:135:ILE:HD11	1:L:464:THR:HG22	1.95	0.49
1:M:117:ALA:HB2	1:M:475:TYR:CD1	2.48	0.49
1:N:78:PHE:CE2	1:N:303:LEU:HA	2.47	0.49
1:N:183:ILE:HD12	1:m:458:TYR:OH	2.12	0.49
1:O:269:ARG:CG	1:m:296:GLY:O	2.60	0.49
1:R:186:LEU:HD12	1:R:186:LEU:N	2.27	0.49
1:S:377:ARG:HD3	1:U:312:GLY:O	2.12	0.49
1:T:458:TYR:OH	1:i:183:ILE:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:29:GLY:N	1:V:32:GLU:OE2	2.39	0.49
1:W:106:SER:HB3	1:X:483:TRP:CZ3	2.48	0.49
1:Z:341:PRO:HG3	1:3:264:TRP:CH2	2.48	0.49
1:b:323:PRO:O	1:b:375:ASN:ND2	2.46	0.49
1:c:135:ILE:HD11	1:c:464:THR:HG22	1.95	0.49
1:c:285:TRP:HZ3	1:o:416:GLN:HE21	1.60	0.49
1:h:117:ALA:HB2	1:h:475:TYR:CD1	2.48	0.49
1:h:165:PRO:O	1:h:189:TYR:OH	2.20	0.49
1:i:264:TRP:CH2	1:j:341:PRO:HG3	2.48	0.49
1:i:269:ARG:CG	1:j:296:GLY:O	2.59	0.49
1:i:296:GLY:O	1:k:269:ARG:CG	2.59	0.49
1:j:183:ILE:HD12	1:x:458:TYR:OH	2.12	0.49
1:k:185:TYR:CE2	1:k:348:GLU:O	2.65	0.49
1:k:254:PHE:CD1	1:k:255:GLU:HG3	2.48	0.49
1:l:458:TYR:OH	1:n:183:ILE:HD12	2.12	0.49
1:p:78:PHE:CE2	1:p:303:LEU:HA	2.48	0.49
1:q:377:ARG:HD3	1:r:312:GLY:O	2.12	0.49
1:r:117:ALA:HB2	1:r:475:TYR:CD1	2.48	0.49
1:r:135:ILE:HD11	1:r:464:THR:HG22	1.95	0.49
1:r:218:ASP:O	1:x:37:TRP:NE1	2.42	0.49
1:t:106:SER:HB3	1:5:483:TRP:CZ3	2.48	0.49
1:u:266:VAL:HG22	1:v:337:THR:O	2.12	0.49
1:v:37:TRP:NE1	1:w:218:ASP:O	2.42	0.49
1:v:327:ALA:N	1:v:377:ARG:HH21	2.11	0.49
1:w:266:VAL:HG22	1:x:337:THR:O	2.12	0.49
1:w:312:GLY:O	1:y:377:ARG:HD3	2.12	0.49
1:w:314:SER:HB2	1:y:254:PHE:CZ	2.47	0.49
1:x:185:TYR:CE2	1:x:348:GLU:O	2.65	0.49
1:x:327:ALA:N	1:x:377:ARG:HH21	2.11	0.49
1:y:29:GLY:N	1:y:32:GLU:OE2	2.39	0.49
1:1:410:TYR:HE2	1:1:511:LEU:HD11	1.77	0.49
1:3:183:ILE:HD12	1:8:458:TYR:OH	2.12	0.49
1:4:29:GLY:N	1:4:32:GLU:OE2	2.39	0.49
1:5:117:ALA:HB2	1:5:475:TYR:CD1	2.48	0.49
1:6:279:SER:HG	1:7:314:SER:HB3	1.77	0.49
1:A:298:ALA:O	1:I:269:ARG:NH2	2.46	0.49
1:B:186:LEU:HD12	1:B:186:LEU:N	2.27	0.49
1:B:410:TYR:HE2	1:B:511:LEU:HD11	1.77	0.49
1:C:219:GLU:CA	1:D:39:CYS:HB2	2.34	0.49
1:D:135:ILE:HD11	1:D:464:THR:HG22	1.95	0.49
1:D:185:TYR:CE2	1:D:348:GLU:O	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:254:PHE:CD1	1:D:255:GLU:HG3	2.48	0.49
1:D:279:SER:HG	1:N:314:SER:HB3	1.77	0.49
1:E:277:HIS:CD2	1:Q:84:THR:OG1	2.52	0.49
1:E:312:GLY:O	1:F:377:ARG:HD3	2.12	0.49
1:E:483:TRP:CZ3	1:P:106:SER:HB3	2.48	0.49
1:G:183:ILE:HD12	1:W:458:TYR:OH	2.12	0.49
1:H:117:ALA:HB2	1:H:475:TYR:CD1	2.48	0.49
1:H:254:PHE:CD1	1:H:255:GLU:HG3	2.48	0.49
1:I:78:PHE:CE2	1:I:303:LEU:HA	2.48	0.49
1:K:183:ILE:HD12	1:L:458:TYR:OH	2.12	0.49
1:K:277:HIS:CD2	1:a:84:THR:OG1	2.53	0.49
1:L:78:PHE:CE2	1:L:303:LEU:HA	2.47	0.49
1:L:117:ALA:HB2	1:L:475:TYR:CD1	2.48	0.49
1:N:117:ALA:HB2	1:N:475:TYR:CD1	2.48	0.49
1:N:254:PHE:CD1	1:N:255:GLU:HG3	2.48	0.49
1:N:254:PHE:CZ	1:P:314:SER:HB2	2.47	0.49
1:N:264:TRP:CH2	1:P:341:PRO:HG3	2.48	0.49
1:O:37:TRP:NE1	1:P:218:ASP:O	2.42	0.49
1:O:254:PHE:CD1	1:O:255:GLU:HG3	2.48	0.49
1:O:458:TYR:OH	1:d:183:ILE:HD12	2.12	0.49
1:P:117:ALA:HB2	1:P:475:TYR:CD1	2.48	0.49
1:P:183:ILE:HD12	1:Q:458:TYR:OH	2.12	0.49
1:P:185:TYR:CE2	1:P:348:GLU:O	2.65	0.49
1:Q:185:TYR:CE2	1:Q:348:GLU:O	2.65	0.49
1:R:312:GLY:O	1:U:377:ARG:HD3	2.12	0.49
1:R:314:SER:HB2	1:U:254:PHE:CZ	2.47	0.49
1:R:377:ARG:HD3	1:S:312:GLY:O	2.12	0.49
1:S:78:PHE:CE2	1:S:303:LEU:HA	2.48	0.49
1:S:117:ALA:HB2	1:S:475:TYR:CD1	2.48	0.49
1:S:285:TRP:CD2	1:U:419:PRO:HD3	2.47	0.49
1:V:416:GLN:HE21	1:X:285:TRP:HZ3	1.60	0.49
1:W:135:ILE:HD11	1:W:464:THR:HG22	1.95	0.49
1:W:185:TYR:CE2	1:W:348:GLU:O	2.65	0.49
1:X:312:GLY:O	1:e:377:ARG:HD3	2.12	0.49
1:Y:135:ILE:HD11	1:Y:464:THR:HG22	1.95	0.49
1:Z:458:TYR:OH	1:a:183:ILE:HD12	2.12	0.49
1:b:39:CYS:HB2	1:o:219:GLU:CA	2.34	0.49
1:c:219:GLU:CA	1:s:39:CYS:HB2	2.34	0.49
1:c:254:PHE:CZ	1:o:314:SER:HB2	2.47	0.49
1:d:106:SER:HB3	1:n:483:TRP:CZ3	2.48	0.49
1:d:483:TRP:CZ3	1:n:106:SER:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:135:ILE:HD11	1:e:464:THR:HG22	1.95	0.49
1:e:504:ASN:OD1	1:e:508:GLN:N	2.46	0.49
1:f:117:ALA:HB2	1:f:475:TYR:CD1	2.48	0.49
1:f:254:PHE:CD1	1:f:255:GLU:HG3	2.48	0.49
1:f:269:ARG:CG	1:h:296:GLY:O	2.59	0.49
1:f:416:GLN:HE21	1:g:285:TRP:HZ3	1.61	0.49
1:i:78:PHE:CE2	1:i:303:LEU:HA	2.47	0.49
1:i:106:SER:HB3	1:l:483:TRP:CZ3	2.47	0.49
1:j:106:SER:HB3	1:w:483:TRP:CZ3	2.48	0.49
1:j:185:TYR:CE2	1:j:348:GLU:O	2.65	0.49
1:j:293:MET:HG3	1:j:333:GLU:HB2	1.93	0.49
1:j:410:TYR:HE2	1:j:511:LEU:HD11	1.77	0.49
1:m:254:PHE:CD1	1:m:255:GLU:HG3	2.48	0.49
1:o:483:TRP:CZ3	1:6:106:SER:HB3	2.48	0.49
1:p:34:THR:HG1	1:p:131:ASN:H	1.59	0.49
1:q:78:PHE:CE2	1:q:303:LEU:HA	2.47	0.49
1:q:185:TYR:CE2	1:q:348:GLU:O	2.65	0.49
1:u:135:ILE:HD11	1:u:464:THR:HG22	1.95	0.49
1:u:183:ILE:HD12	1:2:458:TYR:OH	2.12	0.49
1:v:135:ILE:HD11	1:v:464:THR:HG22	1.95	0.49
1:v:183:ILE:HD12	1:w:458:TYR:OH	2.12	0.49
1:x:117:ALA:HB2	1:x:475:TYR:CD1	2.48	0.49
1:y:78:PHE:CE2	1:y:303:LEU:HA	2.48	0.49
1:y:185:TYR:CE2	1:y:348:GLU:O	2.65	0.49
1:z:117:ALA:HB2	1:z:475:TYR:CD1	2.48	0.49
1:3:314:SER:HB2	1:4:254:PHE:CZ	2.47	0.49
1:5:254:PHE:CD1	1:5:255:GLU:HG3	2.48	0.49
1:5:504:ASN:OD1	1:5:508:GLN:N	2.46	0.49
1:6:264:TRP:CH2	1:7:341:PRO:HG3	2.48	0.49
1:C:285:TRP:HZ3	1:b:416:GLN:HE21	1.61	0.48
1:C:286:LEU:HD11	1:C:398:ILE:HG13	1.95	0.48
1:E:377:ARG:HD3	1:Q:312:GLY:O	2.12	0.48
1:F:78:PHE:CE2	1:F:303:LEU:HA	2.47	0.48
1:G:254:PHE:CD1	1:G:255:GLU:HG3	2.48	0.48
1:H:183:ILE:HD12	1:I:458:TYR:OH	2.12	0.48
1:H:264:TRP:CH2	1:W:341:PRO:HG3	2.48	0.48
1:I:135:ILE:HD11	1:I:464:THR:HG22	1.95	0.48
1:I:254:PHE:CD1	1:I:255:GLU:HG3	2.48	0.48
1:K:117:ALA:HB2	1:K:475:TYR:CD1	2.48	0.48
1:K:219:GLU:CA	1:7:39:CYS:HB2	2.34	0.48
1:K:254:PHE:CZ	1:a:314:SER:HB2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:419:PRO:HD3	1:8:285:TRP:CD2	2.47	0.48
1:L:185:TYR:CE2	1:L:348:GLU:O	2.65	0.48
1:M:296:GLY:O	1:b:269:ARG:CG	2.59	0.48
1:N:135:ILE:HD11	1:N:464:THR:HG22	1.95	0.48
1:N:410:TYR:HE2	1:N:511:LEU:HD11	1.77	0.48
1:O:264:TRP:CH2	1:m:341:PRO:HG3	2.48	0.48
1:Q:39:CYS:HB2	1:S:219:GLU:CA	2.34	0.48
1:R:78:PHE:CE2	1:R:303:LEU:HA	2.47	0.48
1:R:117:ALA:HB2	1:R:475:TYR:CD1	2.48	0.48
1:R:185:TYR:CE2	1:R:348:GLU:O	2.65	0.48
1:R:341:PRO:HG3	1:U:264:TRP:CH2	2.48	0.48
1:T:254:PHE:CD1	1:T:255:GLU:HG3	2.48	0.48
1:T:296:GLY:O	1:l:269:ARG:CG	2.60	0.48
1:U:39:CYS:HB2	1:e:219:GLU:CA	2.34	0.48
1:U:286:LEU:HD11	1:U:398:ILE:HG13	1.95	0.48
1:V:254:PHE:CD1	1:V:255:GLU:HG3	2.48	0.48
1:V:410:TYR:HE2	1:V:511:LEU:HD11	1.77	0.48
1:W:254:PHE:CZ	1:Y:314:SER:HB2	2.47	0.48
1:W:264:TRP:CH2	1:Y:341:PRO:HG3	2.48	0.48
1:X:254:PHE:CD1	1:X:255:GLU:HG3	2.48	0.48
1:X:314:SER:HB2	1:e:254:PHE:CZ	2.47	0.48
1:Y:504:ASN:OD1	1:Y:508:GLN:N	2.46	0.48
1:Z:312:GLY:O	1:3:377:ARG:HD3	2.12	0.48
1:Z:380:TYR:CD1	1:4:309:VAL:HB	2.47	0.48
1:a:377:ARG:HD3	1:8:312:GLY:O	2.12	0.48
1:b:117:ALA:HB2	1:b:475:TYR:CD1	2.48	0.48
1:b:254:PHE:CD1	1:b:255:GLU:HG3	2.48	0.48
1:c:337:THR:O	1:p:266:VAL:HG22	2.12	0.48
1:c:504:ASN:OD1	1:c:508:GLN:N	2.46	0.48
1:d:269:ARG:CG	1:l:296:GLY:O	2.59	0.48
1:g:314:SER:HB2	1:h:254:PHE:CZ	2.47	0.48
1:h:483:TRP:CZ3	1:k:106:SER:HB3	2.48	0.48
1:i:117:ALA:HB2	1:i:475:TYR:CD1	2.48	0.48
1:i:135:ILE:HD11	1:i:464:THR:HG22	1.95	0.48
1:i:254:PHE:CD1	1:i:255:GLU:HG3	2.48	0.48
1:j:64:ASP:OD1	1:j:446:LYS:NZ	2.38	0.48
1:l:254:PHE:CD1	1:l:255:GLU:HG3	2.48	0.48
1:o:264:TRP:CH2	1:p:341:PRO:HG3	2.49	0.48
1:o:285:TRP:HZ3	1:p:416:GLN:HE21	1.60	0.48
1:p:254:PHE:CD1	1:p:255:GLU:HG3	2.48	0.48
1:p:410:TYR:HE2	1:p:511:LEU:HD11	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:78:PHE:CE2	1:r:303:LEU:HA	2.48	0.48
1:r:219:GLU:CA	1:x:39:CYS:HB2	2.34	0.48
1:r:377:ARG:HD3	1:s:312:GLY:O	2.12	0.48
1:s:286:LEU:HD11	1:s:398:ILE:HG13	1.95	0.48
1:t:133:GLN:HE21	1:6:151:THR:C	2.20	0.48
1:t:254:PHE:CD1	1:t:255:GLU:HG3	2.48	0.48
1:t:254:PHE:CZ	1:u:314:SER:HB2	2.48	0.48
1:u:78:PHE:CE2	1:u:303:LEU:HA	2.48	0.48
1:u:254:PHE:CD1	1:u:255:GLU:HG3	2.48	0.48
1:u:458:TYR:OH	1:5:183:ILE:HD12	2.12	0.48
1:v:254:PHE:CD1	1:v:255:GLU:HG3	2.48	0.48
1:w:277:HIS:CD2	1:x:84:THR:OG1	2.52	0.48
1:z:185:TYR:CE2	1:z:348:GLU:O	2.65	0.48
1:z:458:TYR:OH	1:4:183:ILE:HD12	2.12	0.48
1:4:117:ALA:HB2	1:4:475:TYR:CD1	2.48	0.48
1:4:410:TYR:HE2	1:4:511:LEU:HD11	1.77	0.48
1:6:185:TYR:CE2	1:6:348:GLU:O	2.65	0.48
1:6:254:PHE:CD1	1:6:255:GLU:HG3	2.48	0.48
1:A:186:LEU:HD12	1:A:186:LEU:N	2.27	0.48
1:A:341:PRO:HG3	1:I:264:TRP:CH2	2.48	0.48
1:B:84:THR:OG1	1:L:277:HIS:CD2	2.52	0.48
1:C:186:LEU:HD12	1:C:186:LEU:N	2.27	0.48
1:D:186:LEU:CD1	1:D:186:LEU:N	2.77	0.48
1:D:269:ARG:CG	1:N:296:GLY:O	2.59	0.48
1:E:106:SER:HB3	1:P:483:TRP:CZ3	2.48	0.48
1:E:285:TRP:CD2	1:Q:419:PRO:HD3	2.47	0.48
1:F:185:TYR:CE2	1:F:348:GLU:O	2.65	0.48
1:H:504:ASN:OD1	1:H:508:GLN:N	2.46	0.48
1:K:264:TRP:CH2	1:a:341:PRO:HG3	2.48	0.48
1:K:410:TYR:HE2	1:K:511:LEU:HD11	1.77	0.48
1:M:37:TRP:NE1	1:N:218:ASP:O	2.42	0.48
1:M:135:ILE:HD11	1:M:464:THR:HG22	1.95	0.48
1:O:312:GLY:O	1:n:377:ARG:HD3	2.12	0.48
1:Q:117:ALA:HB2	1:Q:475:TYR:CD1	2.48	0.48
1:R:254:PHE:CD1	1:R:255:GLU:HG3	2.48	0.48
1:S:254:PHE:CZ	1:U:314:SER:HB2	2.47	0.48
1:U:135:ILE:HD11	1:U:464:THR:HG22	1.95	0.48
1:U:186:LEU:HD12	1:U:186:LEU:N	2.27	0.48
1:U:254:PHE:CD1	1:U:255:GLU:HG3	2.48	0.48
1:U:504:ASN:OD1	1:U:508:GLN:N	2.46	0.48
1:V:341:PRO:HG3	1:X:264:TRP:CH2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:377:ARG:HD3	1:e:312:GLY:O	2.12	0.48
1:W:254:PHE:CD1	1:W:255:GLU:HG3	2.48	0.48
1:X:410:TYR:HE2	1:X:511:LEU:HD11	1.77	0.48
1:c:323:PRO:O	1:c:375:ASN:ND2	2.46	0.48
1:c:377:ARG:HD3	1:o:312:GLY:O	2.12	0.48
1:f:314:SER:HB2	1:g:254:PHE:CZ	2.47	0.48
1:g:286:LEU:HD11	1:g:398:ILE:HG13	1.95	0.48
1:h:37:TRP:NE1	1:i:218:ASP:O	2.42	0.48
1:h:135:ILE:HD11	1:h:464:THR:HG22	1.95	0.48
1:i:254:PHE:CZ	1:j:314:SER:HB2	2.47	0.48
1:j:117:ALA:HB2	1:j:475:TYR:CD1	2.48	0.48
1:j:483:TRP:CZ3	1:w:106:SER:HB3	2.48	0.48
1:l:332:ASP:OD2	1:l:365:GLN:NE2	2.45	0.48
1:m:183:ILE:HD12	1:s:458:TYR:OH	2.12	0.48
1:n:286:LEU:HD11	1:n:398:ILE:HG13	1.95	0.48
1:o:254:PHE:CD1	1:o:255:GLU:HG3	2.48	0.48
1:p:29:GLY:N	1:p:32:GLU:OE2	2.39	0.48
1:p:135:ILE:HD11	1:p:464:THR:HG22	1.95	0.48
1:q:117:ALA:HB2	1:q:475:TYR:CD1	2.48	0.48
1:q:254:PHE:CD1	1:q:255:GLU:HG3	2.48	0.48
1:q:285:TRP:HZ3	1:r:416:GLN:HE21	1.60	0.48
1:q:341:PRO:HG3	1:s:264:TRP:CH2	2.48	0.48
1:r:285:TRP:CD2	1:s:419:PRO:HD3	2.47	0.48
1:s:135:ILE:HD11	1:s:464:THR:HG22	1.95	0.48
1:t:117:ALA:HB2	1:t:475:TYR:CD1	2.48	0.48
1:u:285:TRP:HZ3	1:v:416:GLN:HE21	1.61	0.48
1:v:186:LEU:HD12	1:v:186:LEU:N	2.27	0.48
1:w:323:PRO:O	1:w:375:ASN:ND2	2.46	0.48
1:z:78:PHE:CE2	1:z:303:LEU:HA	2.48	0.48
1:1:34:THR:HG1	1:1:131:ASN:H	1.60	0.48
1:1:186:LEU:HD12	1:1:186:LEU:N	2.27	0.48
1:1:254:PHE:CD1	1:1:255:GLU:HG3	2.48	0.48
1:1:285:TRP:HZ3	1:2:416:GLN:HE21	1.60	0.48
1:3:78:PHE:CE2	1:3:303:LEU:HA	2.48	0.48
1:3:341:PRO:HG3	1:4:264:TRP:CH2	2.48	0.48
1:5:264:TRP:CH2	1:6:341:PRO:HG3	2.48	0.48
1:5:410:TYR:HE2	1:5:511:LEU:HD11	1.77	0.48
1:6:327:ALA:N	1:6:377:ARG:HH21	2.11	0.48
1:7:255:GLU:HG2	1:7:278:PHE:CD2	2.49	0.48
1:7:504:ASN:OD1	1:7:508:GLN:N	2.46	0.48
1:A:254:PHE:CD1	1:A:255:GLU:HG3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:337:THR:O	1:I:266:VAL:HG22	2.12	0.48
1:C:254:PHE:CZ	1:b:314:SER:HB2	2.47	0.48
1:C:314:SER:HB2	1:M:254:PHE:CZ	2.47	0.48
1:C:483:TRP:CZ3	1:L:106:SER:HB3	2.49	0.48
1:D:106:SER:HB3	1:M:483:TRP:CZ3	2.48	0.48
1:D:312:GLY:O	1:P:377:ARG:HD3	2.12	0.48
1:D:341:PRO:HG3	1:P:264:TRP:CH2	2.48	0.48
1:E:323:PRO:O	1:E:375:ASN:ND2	2.46	0.48
1:F:64:ASP:OD1	1:F:446:LYS:NZ	2.38	0.48
1:G:117:ALA:HB2	1:G:475:TYR:CD1	2.48	0.48
1:H:255:GLU:HG2	1:H:278:PHE:CD2	2.49	0.48
1:H:312:GLY:O	1:Y:377:ARG:HD3	2.12	0.48
1:H:410:TYR:HE2	1:H:511:LEU:HD11	1.77	0.48
1:M:27:GLY:N	1:M:32:GLU:OE2	2.47	0.48
1:M:458:TYR:OH	1:c:183:ILE:HD12	2.12	0.48
1:N:186:LEU:CD1	1:N:186:LEU:N	2.77	0.48
1:N:377:ARG:HD3	1:P:312:GLY:O	2.12	0.48
1:O:377:ARG:HD3	1:m:312:GLY:O	2.12	0.48
1:Q:37:TRP:NE1	1:S:218:ASP:O	2.42	0.48
1:R:186:LEU:CD1	1:R:186:LEU:N	2.77	0.48
1:R:285:TRP:HZ3	1:S:416:GLN:HE21	1.60	0.48
1:R:286:LEU:HD11	1:R:398:ILE:HG13	1.96	0.48
1:S:266:VAL:HG22	1:U:337:THR:O	2.12	0.48
1:T:186:LEU:HD12	1:T:186:LEU:N	2.27	0.48
1:T:312:GLY:O	1:l:377:ARG:HD3	2.12	0.48
1:T:341:PRO:HG3	1:l:264:TRP:CH2	2.48	0.48
1:V:135:ILE:HD11	1:V:464:THR:HG22	1.95	0.48
1:V:186:LEU:CD1	1:V:186:LEU:N	2.77	0.48
1:V:264:TRP:CH2	1:e:341:PRO:HG3	2.48	0.48
1:V:266:VAL:HG22	1:e:337:THR:O	2.12	0.48
1:W:118:SER:OG	1:W:478:HIS:HB2	2.14	0.48
1:W:327:ALA:N	1:W:377:ARG:HH21	2.11	0.48
1:Y:39:CYS:HB2	1:4:219:GLU:CA	2.34	0.48
1:Y:255:GLU:HG2	1:Y:278:PHE:CD2	2.49	0.48
1:Z:285:TRP:CD2	1:4:419:PRO:HD3	2.47	0.48
1:a:483:TRP:CZ3	1:3:106:SER:HB3	2.48	0.48
1:c:312:GLY:O	1:p:377:ARG:HD3	2.12	0.48
1:c:341:PRO:HG3	1:p:264:TRP:CH2	2.48	0.48
1:c:416:GLN:HE21	1:p:285:TRP:HZ3	1.61	0.48
1:d:286:LEU:HD11	1:d:398:ILE:HG13	1.96	0.48
1:d:377:ARG:HD3	1:l:312:GLY:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:183:ILE:HD12	1:h:458:TYR:OH	2.12	0.48
1:e:323:PRO:O	1:e:375:ASN:ND2	2.46	0.48
1:f:286:LEU:HD11	1:f:398:ILE:HG13	1.95	0.48
1:g:218:ASP:O	1:k:37:TRP:NE1	2.42	0.48
1:g:504:ASN:OD1	1:g:508:GLN:N	2.46	0.48
1:i:277:HIS:CD2	1:j:84:THR:OG1	2.52	0.48
1:i:410:TYR:HE2	1:i:511:LEU:HD11	1.77	0.48
1:i:419:PRO:HD3	1:k:285:TRP:CZ3	2.49	0.48
1:i:521:MET:HG2	1:l:485:ASN:ND2	2.29	0.48
1:j:218:ASP:O	1:l:37:TRP:NE1	2.42	0.48
1:k:458:TYR:OH	1:w:183:ILE:HD12	2.12	0.48
1:m:106:SER:HB3	1:r:483:TRP:CZ3	2.48	0.48
1:m:377:ARG:HD3	1:n:312:GLY:O	2.12	0.48
1:p:186:LEU:CD1	1:p:186:LEU:N	2.77	0.48
1:q:27:GLY:N	1:q:32:GLU:OE2	2.47	0.48
1:q:286:LEU:HD11	1:q:398:ILE:HG13	1.96	0.48
1:r:254:PHE:CZ	1:s:314:SER:HB2	2.47	0.48
1:s:186:LEU:HD12	1:s:186:LEU:N	2.27	0.48
1:s:254:PHE:CD1	1:s:255:GLU:HG3	2.48	0.48
1:t:135:ILE:HD11	1:t:464:THR:HG22	1.95	0.48
1:t:485:ASN:ND2	1:5:521:MET:HG2	2.29	0.48
1:w:118:SER:OG	1:w:478:HIS:HB2	2.14	0.48
1:w:285:TRP:CD2	1:x:419:PRO:HD3	2.47	0.48
1:y:64:ASP:OD1	1:y:446:LYS:NZ	2.38	0.48
1:y:118:SER:OG	1:y:478:HIS:HB2	2.14	0.48
1:y:323:PRO:O	1:y:375:ASN:ND2	2.46	0.48
1:1:117:ALA:HB2	1:1:475:TYR:CD1	2.48	0.48
1:6:118:SER:OG	1:6:478:HIS:HB2	2.14	0.48
1:6:254:PHE:CZ	1:7:314:SER:HB2	2.47	0.48
1:A:255:GLU:HG2	1:A:278:PHE:CD2	2.49	0.48
1:A:286:LEU:HD11	1:A:398:ILE:HG13	1.96	0.48
1:A:312:GLY:O	1:I:377:ARG:HD3	2.12	0.48
1:B:117:ALA:HB2	1:B:475:TYR:CD1	2.48	0.48
1:B:254:PHE:CD1	1:B:255:GLU:HG3	2.48	0.48
1:B:264:TRP:CH2	1:J:341:PRO:HG3	2.48	0.48
1:B:285:TRP:HZ3	1:J:416:GLN:HE21	1.60	0.48
1:B:419:PRO:HD3	1:L:285:TRP:CD2	2.47	0.48
1:C:264:TRP:CH2	1:b:341:PRO:HG3	2.48	0.48
1:C:504:ASN:OD1	1:C:508:GLN:N	2.46	0.48
1:D:458:TYR:OH	1:E:183:ILE:HD12	2.12	0.48
1:E:118:SER:OG	1:E:478:HIS:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:118:SER:OG	1:F:478:HIS:HB2	2.14	0.48
1:F:323:PRO:O	1:F:375:ASN:ND2	2.46	0.48
1:G:135:ILE:HD11	1:G:464:THR:HG22	1.95	0.48
1:G:264:TRP:CH2	1:I:341:PRO:HG3	2.48	0.48
1:H:327:ALA:N	1:H:377:ARG:HH21	2.11	0.48
1:I:27:GLY:N	1:I:32:GLU:OE2	2.47	0.48
1:I:186:LEU:HD12	1:I:186:LEU:N	2.27	0.48
1:J:117:ALA:HB2	1:J:475:TYR:CD1	2.48	0.48
1:J:255:GLU:HG2	1:J:278:PHE:CD2	2.49	0.48
1:J:264:TRP:CH2	1:L:341:PRO:HG3	2.48	0.48
1:J:483:TRP:CZ3	1:K:106:SER:HB3	2.48	0.48
1:K:118:SER:OG	1:K:478:HIS:HB2	2.14	0.48
1:K:286:LEU:HD11	1:K:398:ILE:HG13	1.96	0.48
1:K:323:PRO:O	1:K:375:ASN:ND2	2.46	0.48
1:O:332:ASP:OD2	1:O:365:GLN:NE2	2.45	0.48
1:P:34:THR:HG1	1:P:131:ASN:H	1.60	0.48
1:P:186:LEU:CD1	1:P:186:LEU:N	2.77	0.48
1:R:27:GLY:N	1:R:32:GLU:OE2	2.47	0.48
1:R:458:TYR:OH	1:V:183:ILE:HD12	2.12	0.48
1:S:254:PHE:CD1	1:S:255:GLU:HG3	2.48	0.48
1:S:483:TRP:CZ3	1:T:106:SER:HB3	2.48	0.48
1:T:118:SER:OG	1:T:478:HIS:HB2	2.14	0.48
1:T:285:TRP:HZ3	1:d:416:GLN:HE21	1.60	0.48
1:T:377:ARG:HD3	1:d:312:GLY:O	2.12	0.48
1:U:106:SER:HB3	1:V:483:TRP:CZ3	2.49	0.48
1:X:185:TYR:CE2	1:X:348:GLU:O	2.65	0.48
1:Y:118:SER:OG	1:Y:478:HIS:HB2	2.14	0.48
1:Y:483:TRP:CZ3	1:Z:106:SER:HB3	2.48	0.48
1:a:78:PHE:CE2	1:a:303:LEU:HA	2.48	0.48
1:a:106:SER:HB3	1:3:483:TRP:CZ3	2.48	0.48
1:a:135:ILE:HD11	1:a:464:THR:HG22	1.95	0.48
1:b:27:GLY:N	1:b:32:GLU:OE2	2.47	0.48
1:b:186:LEU:CD1	1:b:186:LEU:N	2.77	0.48
1:f:27:GLY:N	1:f:32:GLU:OE2	2.47	0.48
1:f:186:LEU:CD1	1:f:186:LEU:N	2.77	0.48
1:f:341:PRO:HG3	1:g:264:TRP:CH2	2.48	0.48
1:g:219:GLU:CA	1:k:39:CYS:HB2	2.34	0.48
1:g:341:PRO:HG3	1:h:264:TRP:CH2	2.48	0.48
1:g:483:TRP:CZ3	1:z:106:SER:HB3	2.49	0.48
1:h:27:GLY:N	1:h:32:GLU:OE2	2.47	0.48
1:h:255:GLU:HG2	1:h:278:PHE:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:186:LEU:CD1	1:i:186:LEU:N	2.77	0.48
1:j:37:TRP:NE1	1:x:218:ASP:O	2.42	0.48
1:j:264:TRP:CH2	1:k:341:PRO:HG3	2.48	0.48
1:j:377:ARG:HD3	1:k:312:GLY:O	2.13	0.48
1:k:78:PHE:CE2	1:k:303:LEU:HA	2.48	0.48
1:m:118:SER:OG	1:m:478:HIS:HB2	2.14	0.48
1:m:186:LEU:HD12	1:m:186:LEU:N	2.27	0.48
1:m:264:TRP:CH2	1:n:341:PRO:HG3	2.48	0.48
1:o:78:PHE:CE2	1:o:303:LEU:HA	2.48	0.48
1:o:106:SER:HB3	1:6:483:TRP:CZ3	2.49	0.48
1:o:410:TYR:HE2	1:o:511:LEU:HD11	1.77	0.48
1:p:483:TRP:CZ3	1:s:106:SER:HB3	2.49	0.48
1:q:186:LEU:CD1	1:q:186:LEU:N	2.77	0.48
1:r:264:TRP:CH2	1:s:341:PRO:HG3	2.48	0.48
1:r:266:VAL:HG22	1:s:337:THR:O	2.12	0.48
1:s:504:ASN:OD1	1:s:508:GLN:N	2.46	0.48
1:u:264:TRP:CH2	1:v:341:PRO:HG3	2.48	0.48
1:u:323:PRO:O	1:u:375:ASN:ND2	2.46	0.48
1:u:377:ARG:HD3	1:v:312:GLY:O	2.12	0.48
1:v:255:GLU:HG2	1:v:278:PHE:CD2	2.49	0.48
1:v:286:LEU:HD11	1:v:398:ILE:HG13	1.95	0.48
1:z:285:TRP:CD2	1:1:419:PRO:HD3	2.47	0.48
1:1:264:TRP:CH2	1:2:341:PRO:HG3	2.48	0.48
1:3:84:THR:OG1	1:4:277:HIS:CD2	2.53	0.48
1:3:135:ILE:HD11	1:3:464:THR:HG22	1.95	0.48
1:4:118:SER:OG	1:4:478:HIS:HB2	2.14	0.48
1:4:286:LEU:HD11	1:4:398:ILE:HG13	1.96	0.48
1:5:186:LEU:CD1	1:5:186:LEU:N	2.77	0.48
1:5:255:GLU:HG2	1:5:278:PHE:CD2	2.49	0.48
1:5:327:ALA:N	1:5:377:ARG:HH21	2.11	0.48
1:6:377:ARG:HD3	1:7:312:GLY:O	2.12	0.48
1:8:118:SER:OG	1:8:478:HIS:HB2	2.14	0.48
1:A:106:SER:HB3	1:F:483:TRP:CZ3	2.48	0.48
1:A:485:ASN:ND2	1:F:521:MET:HG2	2.29	0.48
1:C:341:PRO:HG3	1:M:264:TRP:CH2	2.48	0.48
1:C:377:ARG:HD3	1:b:312:GLY:O	2.12	0.48
1:D:27:GLY:N	1:D:32:GLU:OE2	2.47	0.48
1:D:78:PHE:CE2	1:D:303:LEU:HA	2.48	0.48
1:D:255:GLU:HG2	1:D:278:PHE:CD2	2.49	0.48
1:D:285:TRP:CZ3	1:N:419:PRO:HD3	2.49	0.48
1:F:27:GLY:N	1:F:32:GLU:OE2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:27:GLY:N	1:G:32:GLU:OE2	2.47	0.48
1:G:106:SER:HB3	1:H:483:TRP:CZ3	2.48	0.48
1:G:186:LEU:HD12	1:G:186:LEU:N	2.27	0.48
1:G:286:LEU:HD11	1:G:398:ILE:HG13	1.95	0.48
1:H:186:LEU:CD1	1:H:186:LEU:N	2.77	0.48
1:H:285:TRP:CZ3	1:W:419:PRO:HD3	2.49	0.48
1:I:186:LEU:CD1	1:I:186:LEU:N	2.77	0.48
1:K:254:PHE:CD1	1:K:255:GLU:HG3	2.48	0.48
1:K:285:TRP:CZ3	1:a:419:PRO:HD3	2.49	0.48
1:L:118:SER:OG	1:L:478:HIS:HB2	2.14	0.48
1:L:254:PHE:CD1	1:L:255:GLU:HG3	2.48	0.48
1:N:27:GLY:N	1:N:32:GLU:OE2	2.47	0.48
1:N:106:SER:HB3	1:O:483:TRP:CZ3	2.48	0.48
1:N:286:LEU:HD11	1:N:398:ILE:HG13	1.96	0.48
1:P:27:GLY:N	1:P:32:GLU:OE2	2.47	0.48
1:P:135:ILE:HD11	1:P:464:THR:HG22	1.95	0.48
1:R:254:PHE:CZ	1:S:314:SER:HB2	2.47	0.48
1:S:118:SER:OG	1:S:478:HIS:HB2	2.14	0.48
1:S:264:TRP:CH2	1:U:341:PRO:HG3	2.48	0.48
1:T:183:ILE:HD12	1:U:458:TYR:OH	2.12	0.48
1:T:264:TRP:CH2	1:d:341:PRO:HG3	2.48	0.48
1:T:419:PRO:HD2	1:l:402:ILE:HD13	1.96	0.48
1:V:117:ALA:HB2	1:V:475:TYR:CD1	2.48	0.48
1:V:285:TRP:HZ3	1:e:416:GLN:HE21	1.61	0.48
1:W:186:LEU:CD1	1:W:186:LEU:N	2.77	0.48
1:W:377:ARG:HD3	1:Y:312:GLY:O	2.12	0.48
1:W:483:TRP:CZ3	1:X:106:SER:HB3	2.48	0.48
1:X:78:PHE:CE2	1:X:303:LEU:HA	2.48	0.48
1:Z:117:ALA:HB2	1:Z:475:TYR:CD1	2.48	0.48
1:Z:314:SER:HB3	1:3:279:SER:HG	1.78	0.48
1:a:279:SER:HG	1:8:314:SER:HB3	1.78	0.48
1:b:106:SER:HB3	1:c:483:TRP:CZ3	2.48	0.48
1:b:286:LEU:HD11	1:b:398:ILE:HG13	1.96	0.48
1:c:27:GLY:N	1:c:32:GLU:OE2	2.47	0.48
1:c:254:PHE:CD1	1:c:255:GLU:HG3	2.48	0.48
1:c:264:TRP:CH2	1:o:341:PRO:HG3	2.48	0.48
1:d:186:LEU:CD1	1:d:186:LEU:N	2.77	0.48
1:d:255:GLU:HG2	1:d:278:PHE:CD2	2.49	0.48
1:e:27:GLY:N	1:e:32:GLU:OE2	2.47	0.48
1:g:186:LEU:HD12	1:g:186:LEU:N	2.27	0.48
1:i:27:GLY:N	1:i:32:GLU:OE2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:377:ARG:HD3	1:j:312:GLY:O	2.12	0.48
1:j:186:LEU:CD1	1:j:186:LEU:N	2.77	0.48
1:k:27:GLY:N	1:k:32:GLU:OE2	2.47	0.48
1:k:186:LEU:CD1	1:k:186:LEU:N	2.77	0.48
1:k:255:GLU:HG2	1:k:278:PHE:CD2	2.49	0.48
1:n:186:LEU:CD1	1:n:186:LEU:N	2.77	0.48
1:n:255:GLU:HG2	1:n:278:PHE:CD2	2.49	0.48
1:o:135:ILE:HD11	1:o:464:THR:HG22	1.95	0.48
1:o:185:TYR:CE2	1:o:348:GLU:O	2.65	0.48
1:o:323:PRO:O	1:o:375:ASN:ND2	2.46	0.48
1:p:117:ALA:HB2	1:p:475:TYR:CD1	2.48	0.48
1:q:419:PRO:HD3	1:s:285:TRP:CD2	2.47	0.48
1:r:254:PHE:CD1	1:r:255:GLU:HG3	2.48	0.48
1:r:285:TRP:HZ3	1:s:416:GLN:HE21	1.60	0.48
1:s:27:GLY:N	1:s:32:GLU:OE2	2.47	0.48
1:t:27:GLY:N	1:t:32:GLU:OE2	2.47	0.48
1:t:78:PHE:CE2	1:t:303:LEU:HA	2.48	0.48
1:t:410:TYR:HE2	1:t:511:LEU:HD11	1.77	0.48
1:t:416:GLN:HE21	1:v:285:TRP:HZ3	1.60	0.48
1:u:27:GLY:N	1:u:32:GLU:OE2	2.47	0.48
1:u:106:SER:HB3	1:1:483:TRP:CZ3	2.48	0.48
1:z:254:PHE:CD1	1:z:255:GLU:HG3	2.48	0.48
1:z:341:PRO:HG3	1:2:264:TRP:CH2	2.48	0.48
1:2:255:GLU:HG2	1:2:278:PHE:CD2	2.49	0.48
1:2:483:TRP:CZ3	1:4:106:SER:HB3	2.48	0.48
1:3:419:PRO:HD3	1:4:285:TRP:CZ3	2.49	0.48
1:4:323:PRO:O	1:4:375:ASN:ND2	2.46	0.48
1:5:312:GLY:O	1:7:377:ARG:HD3	2.12	0.48
1:6:27:GLY:N	1:6:32:GLU:OE2	2.47	0.48
1:7:118:SER:OG	1:7:478:HIS:HB2	2.14	0.48
1:7:483:TRP:CZ3	1:8:106:SER:HB3	2.48	0.48
1:8:27:GLY:N	1:8:32:GLU:OE2	2.47	0.48
1:C:135:ILE:HD11	1:C:464:THR:HG22	1.95	0.48
1:C:218:ASP:O	1:D:37:TRP:NE1	2.42	0.48
1:C:254:PHE:CD1	1:C:255:GLU:HG3	2.48	0.48
1:C:285:TRP:CZ3	1:b:419:PRO:HD3	2.49	0.48
1:D:84:THR:OG1	1:P:277:HIS:CD2	2.52	0.48
1:D:264:TRP:CH2	1:N:341:PRO:HG3	2.48	0.48
1:E:27:GLY:N	1:E:32:GLU:OE2	2.47	0.48
1:E:285:TRP:CZ3	1:Q:419:PRO:HD3	2.49	0.48
1:E:348:GLU:HA	1:E:348:GLU:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:416:GLN:HE21	1:F:285:TRP:HZ3	1.60	0.48
1:F:186:LEU:CD1	1:F:186:LEU:N	2.77	0.48
1:F:255:GLU:HG2	1:F:278:PHE:CD2	2.49	0.48
1:G:78:PHE:CE2	1:G:303:LEU:HA	2.48	0.48
1:G:410:TYR:HE2	1:G:511:LEU:HD11	1.77	0.48
1:G:483:TRP:CZ3	1:H:106:SER:HB3	2.48	0.48
1:H:341:PRO:HG3	1:Y:264:TRP:CH2	2.48	0.48
1:I:323:PRO:O	1:I:375:ASN:ND2	2.46	0.48
1:I:327:ALA:N	1:I:377:ARG:HH21	2.11	0.48
1:J:37:TRP:NE1	1:a:218:ASP:O	2.42	0.48
1:K:27:GLY:N	1:K:32:GLU:OE2	2.47	0.48
1:K:314:SER:HB2	1:8:254:PHE:CZ	2.47	0.48
1:K:341:PRO:HG3	1:8:264:TRP:CH2	2.48	0.48
1:L:27:GLY:N	1:L:32:GLU:OE2	2.47	0.48
1:M:218:ASP:O	1:c:37:TRP:NE1	2.42	0.48
1:M:255:GLU:HG2	1:M:278:PHE:CD2	2.49	0.48
1:N:521:MET:HG2	1:O:485:ASN:ND2	2.29	0.48
1:O:118:SER:OG	1:O:478:HIS:HB2	2.14	0.48
1:O:327:ALA:N	1:O:377:ARG:HH21	2.11	0.48
1:O:402:ILE:HD13	1:m:419:PRO:HD2	1.96	0.48
1:P:323:PRO:O	1:P:375:ASN:ND2	2.46	0.48
1:R:118:SER:OG	1:R:478:HIS:HB2	2.14	0.48
1:R:419:PRO:HD3	1:U:285:TRP:CD2	2.47	0.48
1:S:285:TRP:HZ3	1:U:416:GLN:HE21	1.60	0.48
1:T:398:ILE:HG12	1:T:401:MET:HE3	1.96	0.48
1:U:27:GLY:N	1:U:32:GLU:OE2	2.47	0.48
1:W:27:GLY:N	1:W:32:GLU:OE2	2.47	0.48
1:W:117:ALA:HB2	1:W:475:TYR:CD1	2.48	0.48
1:X:135:ILE:HD11	1:X:464:THR:HG22	1.95	0.48
1:X:323:PRO:O	1:X:375:ASN:ND2	2.46	0.48
1:X:341:PRO:HG3	1:e:264:TRP:CH2	2.48	0.48
1:Z:27:GLY:N	1:Z:32:GLU:OE2	2.47	0.48
1:Z:118:SER:OG	1:Z:478:HIS:HB2	2.14	0.48
1:a:117:ALA:O	1:a:246:ASN:HB3	2.14	0.48
1:a:254:PHE:CD1	1:a:255:GLU:HG3	2.48	0.48
1:a:410:TYR:HE2	1:a:511:LEU:HD11	1.77	0.48
1:d:117:ALA:HB2	1:d:475:TYR:CD1	2.48	0.48
1:e:254:PHE:CD1	1:e:255:GLU:HG3	2.48	0.48
1:e:483:TRP:CZ3	1:f:106:SER:HB3	2.48	0.48
1:f:312:GLY:O	1:g:377:ARG:HD3	2.12	0.48
1:f:419:PRO:HD3	1:g:285:TRP:CZ3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:135:ILE:HD11	1:g:464:THR:HG22	1.95	0.48
1:h:118:SER:OG	1:h:478:HIS:HB2	2.14	0.48
1:i:285:TRP:CZ3	1:j:419:PRO:HD3	2.49	0.48
1:j:27:GLY:N	1:j:32:GLU:OE2	2.47	0.48
1:j:135:ILE:HD11	1:j:464:THR:HG22	1.95	0.48
1:k:64:ASP:OD1	1:k:446:LYS:NZ	2.38	0.48
1:l:118:SER:OG	1:l:478:HIS:HB2	2.14	0.48
1:l:327:ALA:N	1:l:377:ARG:HH21	2.11	0.48
1:m:398:ILE:HG12	1:m:401:MET:HE3	1.96	0.48
1:n:117:ALA:HB2	1:n:475:TYR:CD1	2.48	0.48
1:n:186:LEU:N	1:n:186:LEU:HD12	2.27	0.48
1:n:254:PHE:CD1	1:n:255:GLU:HG3	2.48	0.48
1:o:39:CYS:HB2	1:7:219:GLU:CA	2.34	0.48
1:p:183:ILE:HD12	1:q:458:TYR:OH	2.12	0.48
1:r:118:SER:OG	1:r:478:HIS:HB2	2.14	0.48
1:s:327:ALA:N	1:s:377:ARG:HH21	2.11	0.48
1:s:410:TYR:HE2	1:s:511:LEU:HD11	1.77	0.48
1:t:286:LEU:HD11	1:t:398:ILE:HG13	1.95	0.48
1:u:186:LEU:CD1	1:u:186:LEU:N	2.77	0.48
1:v:504:ASN:OD1	1:v:508:GLN:N	2.46	0.48
1:w:285:TRP:CZ3	1:x:419:PRO:HD3	2.49	0.48
1:w:348:GLU:OE1	1:w:348:GLU:HA	2.14	0.48
1:y:27:GLY:N	1:y:32:GLU:OE2	2.47	0.48
1:y:186:LEU:CD1	1:y:186:LEU:N	2.77	0.48
1:y:255:GLU:HG2	1:y:278:PHE:CD2	2.49	0.48
1:z:27:GLY:N	1:z:32:GLU:OE2	2.47	0.48
1:z:118:SER:OG	1:z:478:HIS:HB2	2.14	0.48
1:z:277:HIS:CD2	1:1:84:THR:OG1	2.52	0.48
1:2:117:ALA:HB2	1:2:475:TYR:CD1	2.48	0.48
1:2:254:PHE:CD1	1:2:255:GLU:HG3	2.48	0.48
1:4:27:GLY:N	1:4:32:GLU:OE2	2.47	0.48
1:4:254:PHE:CD1	1:4:255:GLU:HG3	2.48	0.48
1:6:117:ALA:HB2	1:6:475:TYR:CD1	2.48	0.48
1:8:117:ALA:HB2	1:8:475:TYR:CD1	2.48	0.48
1:A:27:GLY:N	1:A:32:GLU:OE2	2.47	0.48
1:A:416:GLN:HE21	1:I:285:TRP:HZ3	1.61	0.48
1:A:504:ASN:OD1	1:A:508:GLN:N	2.46	0.48
1:B:255:GLU:HG2	1:B:278:PHE:CD2	2.49	0.48
1:B:286:LEU:HD11	1:B:398:ILE:HG13	1.96	0.48
1:B:483:TRP:CZ3	1:I:106:SER:HB3	2.48	0.48
1:C:106:SER:HB3	1:L:483:TRP:CZ3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:285:TRP:HZ3	1:N:416:GLN:HE21	1.60	0.48
1:D:323:PRO:O	1:D:375:ASN:ND2	2.46	0.48
1:D:398:ILE:HG12	1:D:401:MET:HE3	1.96	0.48
1:E:117:ALA:O	1:E:246:ASN:HB3	2.14	0.48
1:G:118:SER:OG	1:G:478:HIS:HB2	2.14	0.48
1:G:398:ILE:HG12	1:G:401:MET:HE3	1.96	0.48
1:H:348:GLU:OE1	1:H:348:GLU:HA	2.14	0.48
1:J:78:PHE:CE2	1:J:303:LEU:HA	2.48	0.48
1:J:348:GLU:HA	1:J:348:GLU:OE1	2.14	0.48
1:K:348:GLU:HA	1:K:348:GLU:OE1	2.14	0.48
1:M:118:SER:OG	1:M:478:HIS:HB2	2.14	0.48
1:M:323:PRO:O	1:M:375:ASN:ND2	2.46	0.48
1:M:348:GLU:HA	1:M:348:GLU:OE1	2.14	0.48
1:N:277:HIS:CD2	1:P:84:THR:OG1	2.52	0.48
1:N:348:GLU:HA	1:N:348:GLU:OE1	2.14	0.48
1:O:27:GLY:N	1:O:32:GLU:OE2	2.47	0.48
1:T:27:GLY:N	1:T:32:GLU:OE2	2.47	0.48
1:U:327:ALA:N	1:U:377:ARG:HH21	2.11	0.48
1:U:410:TYR:HE2	1:U:511:LEU:HD11	1.77	0.48
1:U:483:TRP:CZ3	1:V:106:SER:HB3	2.48	0.48
1:X:39:CYS:HB2	1:Y:219:GLU:CA	2.34	0.48
1:Z:34:THR:HG1	1:Z:131:ASN:H	1.59	0.48
1:Z:186:LEU:CD1	1:Z:186:LEU:N	2.77	0.48
1:Z:255:GLU:HG2	1:Z:278:PHE:CD2	2.49	0.48
1:Z:264:TRP:CH2	1:4:341:PRO:HG3	2.48	0.48
1:Z:285:TRP:CZ3	1:4:419:PRO:HD3	2.49	0.48
1:a:27:GLY:N	1:a:32:GLU:OE2	2.47	0.48
1:a:118:SER:OG	1:a:478:HIS:HB2	2.14	0.48
1:c:64:ASP:OD1	1:c:446:LYS:NZ	2.38	0.48
1:c:118:SER:OG	1:c:478:HIS:HB2	2.14	0.48
1:c:186:LEU:HD12	1:c:186:LEU:N	2.27	0.48
1:c:458:TYR:OH	1:s:183:ILE:HD12	2.12	0.48
1:d:135:ILE:HD11	1:d:464:THR:HG22	1.95	0.48
1:d:186:LEU:N	1:d:186:LEU:HD12	2.27	0.48
1:d:254:PHE:CD1	1:d:255:GLU:HG3	2.48	0.48
1:d:348:GLU:HA	1:d:348:GLU:OE1	2.14	0.48
1:e:37:TRP:NE1	1:h:218:ASP:O	2.42	0.48
1:e:118:SER:OG	1:e:478:HIS:HB2	2.14	0.48
1:e:186:LEU:N	1:e:186:LEU:HD12	2.27	0.48
1:h:106:SER:HB3	1:k:483:TRP:CZ3	2.48	0.48
1:h:323:PRO:O	1:h:375:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:117:ALA:O	1:i:246:ASN:HB3	2.14	0.48
1:i:118:SER:OG	1:i:478:HIS:HB2	2.14	0.48
1:i:285:TRP:HZ3	1:j:416:GLN:HE21	1.60	0.48
1:i:286:LEU:HD11	1:i:398:ILE:HG13	1.96	0.48
1:i:341:PRO:HG3	1:k:264:TRP:CH2	2.48	0.48
1:i:348:GLU:HA	1:i:348:GLU:OE1	2.14	0.48
1:j:277:HIS:CD2	1:k:84:THR:OG1	2.52	0.48
1:j:323:PRO:O	1:j:375:ASN:ND2	2.46	0.48
1:k:323:PRO:O	1:k:375:ASN:ND2	2.46	0.48
1:k:504:ASN:OD1	1:k:508:GLN:N	2.46	0.48
1:l:27:GLY:N	1:l:32:GLU:OE2	2.47	0.48
1:l:249:SER:O	1:l:373:GLU:CG	2.54	0.48
1:m:27:GLY:N	1:m:32:GLU:OE2	2.47	0.48
1:m:285:TRP:HZ3	1:n:416:GLN:HE21	1.61	0.48
1:n:135:ILE:HD11	1:n:464:THR:HG22	1.95	0.48
1:o:186:LEU:CD1	1:o:186:LEU:N	2.77	0.48
1:q:254:PHE:CZ	1:r:314:SER:HB2	2.47	0.48
1:t:186:LEU:HD12	1:t:186:LEU:N	2.27	0.48
1:u:186:LEU:N	1:u:186:LEU:HD12	2.27	0.48
1:w:27:GLY:N	1:w:32:GLU:OE2	2.47	0.48
1:y:348:GLU:HA	1:y:348:GLU:OE1	2.14	0.48
1:1:255:GLU:HG2	1:1:278:PHE:CD2	2.49	0.48
1:1:286:LEU:HD11	1:1:398:ILE:HG13	1.96	0.48
1:2:37:TRP:NE1	1:3:218:ASP:O	2.42	0.48
1:3:117:ALA:O	1:3:246:ASN:HB3	2.14	0.48
1:3:254:PHE:CD1	1:3:255:GLU:HG3	2.48	0.48
1:3:410:TYR:HE2	1:3:511:LEU:HD11	1.77	0.48
1:4:348:GLU:HA	1:4:348:GLU:OE1	2.14	0.48
1:5:341:PRO:HG3	1:7:264:TRP:CH2	2.48	0.48
1:5:348:GLU:OE1	1:5:348:GLU:HA	2.14	0.48
1:6:186:LEU:CD1	1:6:186:LEU:N	2.77	0.48
1:7:286:LEU:HD11	1:7:398:ILE:HG13	1.96	0.48
1:8:186:LEU:CD1	1:8:186:LEU:N	2.77	0.48
1:A:314:SER:HB3	1:I:279:SER:HG	1.78	0.48
1:D:504:ASN:OD1	1:D:508:GLN:N	2.46	0.48
1:F:348:GLU:HA	1:F:348:GLU:OE1	2.14	0.48
1:G:285:TRP:HZ3	1:I:416:GLN:HE21	1.60	0.48
1:J:254:PHE:CD1	1:J:255:GLU:HG3	2.48	0.48
1:K:419:PRO:HD3	1:8:285:TRP:CZ3	2.49	0.48
1:M:419:PRO:HD2	1:b:402:ILE:HD13	1.96	0.48
1:N:117:ALA:O	1:N:246:ASN:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:118:SER:OG	1:N:478:HIS:HB2	2.14	0.48
1:N:285:TRP:HZ3	1:P:416:GLN:HE21	1.60	0.48
1:N:285:TRP:CZ3	1:P:419:PRO:HD3	2.49	0.48
1:P:37:TRP:NE1	1:Q:218:ASP:O	2.42	0.48
1:Q:483:TRP:CZ3	1:R:106:SER:HB3	2.49	0.48
1:R:135:ILE:HD11	1:R:464:THR:HG22	1.95	0.48
1:R:285:TRP:CZ3	1:S:419:PRO:HD3	2.49	0.48
1:S:504:ASN:OD1	1:S:508:GLN:N	2.46	0.48
1:T:186:LEU:CD1	1:T:186:LEU:N	2.77	0.48
1:U:118:SER:OG	1:U:478:HIS:HB2	2.14	0.48
1:U:183:ILE:HD12	1:e:458:TYR:OH	2.12	0.48
1:V:34:THR:HG1	1:V:131:ASN:H	1.60	0.48
1:V:348:GLU:HA	1:V:348:GLU:OE1	2.14	0.48
1:X:186:LEU:CD1	1:X:186:LEU:N	2.77	0.48
1:Y:117:ALA:O	1:Y:246:ASN:HB3	2.14	0.48
1:Z:254:PHE:CZ	1:4:314:SER:HB2	2.47	0.48
1:a:285:TRP:CZ3	1:8:419:PRO:HD3	2.49	0.48
1:e:64:ASP:OD1	1:e:446:LYS:NZ	2.38	0.48
1:f:117:ALA:O	1:f:246:ASN:HB3	2.14	0.48
1:g:254:PHE:CD1	1:g:255:GLU:HG3	2.48	0.48
1:h:186:LEU:CD1	1:h:186:LEU:N	2.77	0.48
1:h:348:GLU:HA	1:h:348:GLU:OE1	2.14	0.48
1:i:416:GLN:HE21	1:k:285:TRP:HZ3	1.61	0.48
1:m:186:LEU:CD1	1:m:186:LEU:N	2.77	0.48
1:n:348:GLU:HA	1:n:348:GLU:OE1	2.14	0.48
1:p:106:SER:HB3	1:s:483:TRP:CZ3	2.48	0.48
1:q:106:SER:HB3	1:x:483:TRP:CZ3	2.49	0.48
1:q:118:SER:OG	1:q:478:HIS:HB2	2.14	0.48
1:q:135:ILE:HD11	1:q:464:THR:HG22	1.95	0.48
1:s:118:SER:OG	1:s:478:HIS:HB2	2.14	0.48
1:s:398:ILE:HG12	1:s:401:MET:HE3	1.96	0.48
1:t:398:ILE:HG12	1:t:401:MET:HE3	1.96	0.48
1:u:483:TRP:CZ3	1:1:106:SER:HB3	2.48	0.48
1:v:27:GLY:N	1:v:32:GLU:OE2	2.47	0.48
1:w:117:ALA:O	1:w:246:ASN:HB3	2.14	0.48
1:w:186:LEU:CD1	1:w:186:LEU:N	2.77	0.48
1:w:416:GLN:HE21	1:y:285:TRP:HZ3	1.60	0.48
1:z:419:PRO:HD3	1:2:285:TRP:CZ3	2.49	0.48
1:2:348:GLU:HA	1:2:348:GLU:OE1	2.14	0.48
1:3:27:GLY:N	1:3:32:GLU:OE2	2.47	0.48
1:3:118:SER:OG	1:3:478:HIS:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:186:LEU:CD1	1:4:186:LEU:N	2.77	0.48
1:7:117:ALA:O	1:7:246:ASN:HB3	2.14	0.48
1:8:255:GLU:HG2	1:8:278:PHE:CD2	2.49	0.48
1:A:37:TRP:NE1	1:E:218:ASP:O	2.43	0.48
1:A:118:SER:OG	1:A:478:HIS:HB2	2.14	0.48
1:A:380:TYR:CD1	1:G:309:VAL:HB	2.48	0.48
1:B:419:PRO:HD2	1:L:402:ILE:HD13	1.96	0.48
1:C:296:GLY:O	1:M:269:ARG:CG	2.59	0.48
1:E:186:LEU:CD1	1:E:186:LEU:N	2.77	0.48
1:E:341:PRO:HG3	1:F:264:TRP:CH2	2.48	0.48
1:E:485:ASN:ND2	1:P:521:MET:HG2	2.29	0.48
1:H:117:ALA:O	1:H:246:ASN:HB3	2.14	0.48
1:H:377:ARG:HD3	1:W:312:GLY:O	2.12	0.48
1:I:118:SER:OG	1:I:478:HIS:HB2	2.14	0.48
1:I:348:GLU:HA	1:I:348:GLU:OE1	2.14	0.48
1:J:106:SER:HB3	1:K:483:TRP:CZ3	2.48	0.48
1:J:285:TRP:CZ3	1:L:419:PRO:HD3	2.49	0.48
1:K:186:LEU:CD1	1:K:186:LEU:N	2.77	0.48
1:L:186:LEU:CD1	1:L:186:LEU:N	2.77	0.48
1:M:186:LEU:CD1	1:M:186:LEU:N	2.77	0.48
1:O:135:ILE:HD11	1:O:464:THR:HG22	1.95	0.48
1:O:286:LEU:HD11	1:O:398:ILE:HG13	1.96	0.48
1:Q:348:GLU:HA	1:Q:348:GLU:OE1	2.14	0.48
1:R:117:ALA:O	1:R:246:ASN:HB3	2.14	0.48
1:S:106:SER:HB3	1:T:483:TRP:CZ3	2.49	0.48
1:U:348:GLU:HA	1:U:348:GLU:OE1	2.14	0.48
1:U:398:ILE:HG12	1:U:401:MET:HE3	1.96	0.48
1:Y:286:LEU:HD11	1:Y:398:ILE:HG13	1.96	0.48
1:Z:419:PRO:HD3	1:3:285:TRP:CZ3	2.49	0.48
1:b:117:ALA:O	1:b:246:ASN:HB3	2.14	0.48
1:b:485:ASN:ND2	1:c:521:MET:HG2	2.29	0.48
1:b:504:ASN:OD1	1:b:508:GLN:N	2.46	0.48
1:b:521:MET:HG2	1:c:485:ASN:ND2	2.29	0.48
1:e:78:PHE:CE2	1:e:303:LEU:HA	2.47	0.48
1:e:485:ASN:ND2	1:f:521:MET:HG2	2.29	0.48
1:f:402:ILE:HD13	1:h:419:PRO:HD2	1.96	0.48
1:g:106:SER:HB3	1:z:483:TRP:CZ3	2.48	0.48
1:i:314:SER:HB3	1:k:279:SER:HG	1.77	0.48
1:j:254:PHE:CD1	1:j:255:GLU:HG3	2.48	0.48
1:j:521:MET:HG2	1:w:485:ASN:ND2	2.29	0.48
1:l:135:ILE:HD11	1:l:464:THR:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:286:LEU:HD11	1:l:398:ILE:HG13	1.96	0.48
1:m:117:ALA:O	1:m:246:ASN:HB3	2.14	0.48
1:p:348:GLU:HA	1:p:348:GLU:OE1	2.14	0.48
1:q:117:ALA:O	1:q:246:ASN:HB3	2.14	0.48
1:q:285:TRP:CZ3	1:r:419:PRO:HD3	2.49	0.48
1:s:348:GLU:OE1	1:s:348:GLU:HA	2.14	0.48
1:t:118:SER:OG	1:t:478:HIS:HB2	2.14	0.48
1:u:118:SER:OG	1:u:478:HIS:HB2	2.14	0.48
1:u:285:TRP:CZ3	1:v:419:PRO:HD3	2.49	0.48
1:v:485:ASN:ND2	1:y:521:MET:HG2	2.29	0.48
1:w:341:PRO:HG3	1:y:264:TRP:CH2	2.48	0.48
1:w:377:ARG:HD3	1:x:312:GLY:O	2.12	0.48
1:y:117:ALA:O	1:y:246:ASN:HB3	2.14	0.48
1:z:402:ILE:HD13	1:1:419:PRO:HD2	1.96	0.48
1:2:78:PHE:CE2	1:2:303:LEU:HA	2.48	0.48
1:2:106:SER:HB3	1:4:483:TRP:CZ3	2.49	0.48
1:4:327:ALA:N	1:4:377:ARG:HH21	2.11	0.48
1:5:117:ALA:O	1:5:246:ASN:HB3	2.14	0.48
1:5:377:ARG:HD3	1:6:312:GLY:O	2.12	0.48
1:B:27:GLY:N	1:B:32:GLU:OE2	2.47	0.48
1:B:106:SER:HB3	1:I:483:TRP:CZ3	2.49	0.48
1:B:323:PRO:O	1:B:375:ASN:ND2	2.46	0.48
1:C:255:GLU:HG2	1:C:278:PHE:CD2	2.49	0.48
1:C:269:ARG:NH2	1:b:298:ALA:O	2.47	0.48
1:C:279:SER:HG	1:b:314:SER:HB3	1.76	0.48
1:E:419:PRO:HD3	1:F:285:TRP:CZ3	2.49	0.48
1:E:521:MET:HG2	1:P:485:ASN:ND2	2.29	0.48
1:F:117:ALA:O	1:F:246:ASN:HB3	2.14	0.48
1:H:118:SER:OG	1:H:478:HIS:HB2	2.14	0.48
1:K:327:ALA:N	1:K:377:ARG:HH21	2.11	0.48
1:M:117:ALA:O	1:M:246:ASN:HB3	2.14	0.48
1:O:419:PRO:HD2	1:n:402:ILE:HD13	1.96	0.48
1:P:254:PHE:CD1	1:P:255:GLU:HG3	2.48	0.48
1:R:264:TRP:CH2	1:S:341:PRO:HG3	2.48	0.48
1:S:186:LEU:CD1	1:S:186:LEU:N	2.77	0.48
1:T:117:ALA:O	1:T:246:ASN:HB3	2.14	0.48
1:T:255:GLU:HG2	1:T:278:PHE:CD2	2.49	0.48
1:T:402:ILE:HD13	1:d:419:PRO:HD2	1.96	0.48
1:U:117:ALA:HB2	1:U:475:TYR:CD1	2.48	0.48
1:U:186:LEU:CD1	1:U:186:LEU:N	2.77	0.48
1:V:269:ARG:NH2	1:e:298:ALA:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:255:GLU:HG2	1:X:278:PHE:CD2	2.49	0.48
1:X:419:PRO:HD2	1:e:402:ILE:HD13	1.96	0.48
1:Y:186:LEU:CD1	1:Y:186:LEU:N	2.77	0.48
1:Y:254:PHE:CD1	1:Y:255:GLU:HG3	2.48	0.48
1:Z:348:GLU:HA	1:Z:348:GLU:OE1	2.14	0.48
1:a:485:ASN:ND2	1:3:521:MET:HG2	2.29	0.48
1:a:521:MET:HG2	1:3:485:ASN:ND2	2.29	0.48
1:c:298:ALA:O	1:p:269:ARG:NH2	2.47	0.48
1:c:402:ILE:HD13	1:o:419:PRO:HD2	1.96	0.48
1:d:27:GLY:N	1:d:32:GLU:OE2	2.47	0.48
1:e:521:MET:HG2	1:f:485:ASN:ND2	2.29	0.48
1:f:504:ASN:OD1	1:f:508:GLN:N	2.46	0.48
1:g:255:GLU:HG2	1:g:278:PHE:CD2	2.49	0.48
1:g:419:PRO:HD2	1:h:402:ILE:HD13	1.96	0.48
1:h:117:ALA:O	1:h:246:ASN:HB3	2.14	0.48
1:i:398:ILE:HG12	1:i:401:MET:HE3	1.96	0.48
1:j:286:LEU:HD11	1:j:398:ILE:HG13	1.96	0.48
1:j:485:ASN:ND2	1:w:521:MET:HG2	2.29	0.48
1:k:398:ILE:HG12	1:k:401:MET:HE3	1.96	0.48
1:m:348:GLU:HA	1:m:348:GLU:OE1	2.14	0.48
1:m:483:TRP:CZ3	1:r:106:SER:HB3	2.49	0.48
1:n:27:GLY:N	1:n:32:GLU:OE2	2.47	0.48
1:o:327:ALA:N	1:o:377:ARG:HH21	2.11	0.48
1:q:264:TRP:CH2	1:r:341:PRO:HG3	2.48	0.48
1:q:327:ALA:N	1:q:377:ARG:HH21	2.11	0.48
1:q:419:PRO:HD3	1:s:285:TRP:CZ3	2.49	0.48
1:q:483:TRP:CZ3	1:x:106:SER:HB3	2.48	0.48
1:r:504:ASN:OD1	1:r:508:GLN:N	2.46	0.48
1:s:186:LEU:CD1	1:s:186:LEU:N	2.77	0.48
1:t:256:ARG:CG	1:u:168:LEU:HB2	2.44	0.48
1:t:419:PRO:HD2	1:v:402:ILE:HD13	1.95	0.48
1:u:348:GLU:HA	1:u:348:GLU:OE1	2.14	0.48
1:v:117:ALA:O	1:v:246:ASN:HB3	2.14	0.48
1:v:118:SER:OG	1:v:478:HIS:HB2	2.14	0.48
1:x:186:LEU:CD1	1:x:186:LEU:N	2.77	0.48
1:x:348:GLU:HA	1:x:348:GLU:OE1	2.14	0.48
1:z:186:LEU:CD1	1:z:186:LEU:N	2.77	0.48
1:1:118:SER:OG	1:1:478:HIS:HB2	2.14	0.48
1:1:323:PRO:O	1:1:375:ASN:ND2	2.46	0.48
1:2:323:PRO:O	1:2:375:ASN:ND2	2.46	0.48
1:3:255:GLU:HG2	1:3:278:PHE:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:285:TRP:CZ3	1:7:419:PRO:HD3	2.49	0.48
1:7:186:LEU:CD1	1:7:186:LEU:N	2.77	0.48
1:7:254:PHE:CD1	1:7:255:GLU:HG3	2.48	0.48
1:A:183:ILE:HD12	1:E:458:TYR:OH	2.13	0.47
1:A:186:LEU:CD1	1:A:186:LEU:N	2.77	0.47
1:A:269:ARG:CG	1:G:296:GLY:O	2.61	0.47
1:B:118:SER:OG	1:B:478:HIS:HB2	2.14	0.47
1:B:298:ALA:O	1:L:269:ARG:NH2	2.47	0.47
1:C:186:LEU:CD1	1:C:186:LEU:N	2.77	0.47
1:C:419:PRO:HD2	1:M:402:ILE:HD13	1.96	0.47
1:D:483:TRP:CZ3	1:M:106:SER:HB3	2.48	0.47
1:F:298:ALA:O	1:Q:269:ARG:NH2	2.47	0.47
1:J:118:SER:OG	1:J:478:HIS:HB2	2.14	0.47
1:J:323:PRO:O	1:J:375:ASN:ND2	2.46	0.47
1:J:485:ASN:ND2	1:K:521:MET:HG2	2.29	0.47
1:N:398:ILE:HG12	1:N:401:MET:HE3	1.96	0.47
1:O:249:SER:O	1:O:373:GLU:CG	2.54	0.47
1:Q:106:SER:HB3	1:R:483:TRP:CZ3	2.48	0.47
1:Q:186:LEU:CD1	1:Q:186:LEU:N	2.77	0.47
1:R:255:GLU:HG2	1:R:278:PHE:CD2	2.49	0.47
1:R:327:ALA:N	1:R:377:ARG:HH21	2.11	0.47
1:R:419:PRO:HD3	1:U:285:TRP:CZ3	2.49	0.47
1:R:419:PRO:HD2	1:U:402:ILE:HD13	1.96	0.47
1:S:39:CYS:HB2	1:d:219:GLU:CA	2.34	0.47
1:S:285:TRP:CZ3	1:U:419:PRO:HD3	2.49	0.47
1:S:323:PRO:O	1:S:375:ASN:ND2	2.46	0.47
1:S:402:ILE:HD13	1:U:419:PRO:HD2	1.96	0.47
1:T:135:ILE:HD11	1:T:464:THR:HG22	1.95	0.47
1:T:348:GLU:OE1	1:T:348:GLU:HA	2.14	0.47
1:T:419:PRO:HD3	1:l:285:TRP:CZ3	2.49	0.47
1:V:298:ALA:O	1:X:269:ARG:NH2	2.47	0.47
1:V:419:PRO:HD3	1:X:285:TRP:CZ3	2.49	0.47
1:W:255:GLU:HG2	1:W:278:PHE:CD2	2.49	0.47
1:W:285:TRP:CZ3	1:Y:419:PRO:HD3	2.49	0.47
1:W:348:GLU:HA	1:W:348:GLU:OE1	2.14	0.47
1:W:398:ILE:HG12	1:W:401:MET:HE3	1.96	0.47
1:X:286:LEU:HD11	1:X:398:ILE:HG13	1.95	0.47
1:X:327:ALA:N	1:X:377:ARG:HH21	2.11	0.47
1:a:255:GLU:HG2	1:a:278:PHE:CD2	2.49	0.47
1:a:348:GLU:HA	1:a:348:GLU:OE1	2.14	0.47
1:a:504:ASN:OD1	1:a:508:GLN:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:78:PHE:CE2	1:c:303:LEU:HA	2.47	0.47
1:c:348:GLU:OE1	1:c:348:GLU:HA	2.14	0.47
1:d:402:ILE:HD13	1:l:419:PRO:HD2	1.96	0.47
1:e:348:GLU:HA	1:e:348:GLU:OE1	2.14	0.47
1:f:255:GLU:HG2	1:f:278:PHE:CD2	2.49	0.47
1:f:264:TRP:CH2	1:h:341:PRO:HG3	2.48	0.47
1:f:298:ALA:O	1:g:269:ARG:NH2	2.47	0.47
1:g:296:GLY:O	1:h:269:ARG:CG	2.59	0.47
1:i:249:SER:O	1:i:373:GLU:CG	2.54	0.47
1:k:117:ALA:O	1:k:246:ASN:HB3	2.14	0.47
1:l:186:LEU:CD1	1:l:186:LEU:N	2.77	0.47
1:m:135:ILE:HD11	1:m:464:THR:HG22	1.95	0.47
1:m:255:GLU:HG2	1:m:278:PHE:CD2	2.49	0.47
1:m:402:ILE:HD13	1:n:419:PRO:HD2	1.96	0.47
1:o:118:SER:OG	1:o:478:HIS:HB2	2.14	0.47
1:o:255:GLU:HG2	1:o:278:PHE:CD2	2.49	0.47
1:o:269:ARG:NH2	1:p:298:ALA:O	2.47	0.47
1:o:285:TRP:CZ3	1:p:419:PRO:HD3	2.49	0.47
1:o:286:LEU:HD11	1:o:398:ILE:HG13	1.95	0.47
1:p:327:ALA:N	1:p:377:ARG:HH21	2.11	0.47
1:r:27:GLY:N	1:r:32:GLU:OE2	2.47	0.47
1:r:34:THR:HG1	1:r:131:ASN:H	1.59	0.47
1:r:186:LEU:CD1	1:r:186:LEU:N	2.77	0.47
1:s:117:ALA:O	1:s:246:ASN:HB3	2.14	0.47
1:s:117:ALA:HB2	1:s:475:TYR:CD1	2.48	0.47
1:v:186:LEU:CD1	1:v:186:LEU:N	2.77	0.47
1:w:419:PRO:HD3	1:y:285:TRP:CZ3	2.49	0.47
1:x:269:ARG:NH2	1:y:298:ALA:O	2.47	0.47
1:2:485:ASN:ND2	1:4:521:MET:HG2	2.29	0.47
1:3:64:ASP:OD1	1:3:446:LYS:NZ	2.38	0.47
1:3:348:GLU:HA	1:3:348:GLU:OE1	2.14	0.47
1:5:118:SER:OG	1:5:478:HIS:HB2	2.14	0.47
1:5:298:ALA:O	1:7:269:ARG:NH2	2.47	0.47
1:6:348:GLU:HA	1:6:348:GLU:OE1	2.14	0.47
1:7:348:GLU:HA	1:7:348:GLU:OE1	2.14	0.47
1:8:348:GLU:HA	1:8:348:GLU:OE1	2.14	0.47
1:A:117:ALA:O	1:A:246:ASN:HB3	2.14	0.47
1:A:285:TRP:CZ3	1:G:419:PRO:HD3	2.49	0.47
1:B:269:ARG:NH2	1:J:298:ALA:O	2.48	0.47
1:B:285:TRP:CZ3	1:J:419:PRO:HD3	2.49	0.47
1:C:118:SER:OG	1:C:478:HIS:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:117:ALA:O	1:D:246:ASN:HB3	2.14	0.47
1:D:402:ILE:HD13	1:N:419:PRO:HD2	1.96	0.47
1:D:419:PRO:HD3	1:P:285:TRP:CZ3	2.49	0.47
1:E:34:THR:HG1	1:E:131:ASN:H	1.60	0.47
1:E:254:PHE:CD1	1:E:255:GLU:HG3	2.48	0.47
1:E:504:ASN:OD1	1:E:508:GLN:N	2.46	0.47
1:F:254:PHE:CD1	1:F:255:GLU:HG3	2.48	0.47
1:F:419:PRO:HD3	1:Q:285:TRP:CZ3	2.49	0.47
1:G:485:ASN:ND2	1:H:521:MET:HG2	2.29	0.47
1:H:135:ILE:HD11	1:H:464:THR:HG22	1.95	0.47
1:H:298:ALA:O	1:Y:269:ARG:NH2	2.48	0.47
1:I:238:ASP:O	1:I:241:THR:OG1	2.21	0.47
1:I:286:LEU:HD11	1:I:398:ILE:HG13	1.96	0.47
1:J:327:ALA:N	1:J:377:ARG:HH21	2.11	0.47
1:M:341:PRO:HG3	1:b:264:TRP:CH2	2.48	0.47
1:N:402:ILE:HD13	1:P:419:PRO:HD2	1.96	0.47
1:O:186:LEU:CD1	1:O:186:LEU:N	2.77	0.47
1:P:286:LEU:HD11	1:P:398:ILE:HG13	1.96	0.47
1:Q:504:ASN:OD1	1:Q:508:GLN:N	2.46	0.47
1:S:27:GLY:N	1:S:32:GLU:OE2	2.47	0.47
1:U:117:ALA:O	1:U:246:ASN:HB3	2.14	0.47
1:U:238:ASP:O	1:U:241:THR:OG1	2.21	0.47
1:V:118:SER:OG	1:V:478:HIS:HB2	2.14	0.47
1:W:269:ARG:NH2	1:Y:298:ALA:O	2.47	0.47
1:X:27:GLY:N	1:X:32:GLU:OE2	2.47	0.47
1:X:118:SER:OG	1:X:478:HIS:HB2	2.14	0.47
1:Y:348:GLU:HA	1:Y:348:GLU:OE1	2.14	0.47
1:Z:117:ALA:O	1:Z:246:ASN:HB3	2.14	0.47
1:Z:402:ILE:HD13	1:4:419:PRO:HD2	1.96	0.47
1:a:117:ALA:HB2	1:a:475:TYR:CD1	2.48	0.47
1:a:186:LEU:CD1	1:a:186:LEU:N	2.77	0.47
1:b:255:GLU:HG2	1:b:278:PHE:CD2	2.49	0.47
1:c:269:ARG:NH2	1:o:298:ALA:O	2.48	0.47
1:e:398:ILE:HG12	1:e:401:MET:HE3	1.96	0.47
1:g:118:SER:OG	1:g:478:HIS:HB2	2.14	0.47
1:h:34:THR:HG1	1:h:131:ASN:H	1.61	0.47
1:h:238:ASP:O	1:h:241:THR:OG1	2.21	0.47
1:i:402:ILE:HD13	1:j:419:PRO:HD2	1.96	0.47
1:j:285:TRP:CZ3	1:k:419:PRO:HD3	2.49	0.47
1:m:328:GLU:CG	1:m:331:LYS:HG3	2.45	0.47
1:p:118:SER:OG	1:p:478:HIS:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:255:GLU:HG2	1:q:278:PHE:CD2	2.49	0.47
1:q:419:PRO:HD2	1:s:402:ILE:HD13	1.96	0.47
1:r:285:TRP:CZ3	1:s:419:PRO:HD3	2.49	0.47
1:r:323:PRO:O	1:r:375:ASN:ND2	2.46	0.47
1:r:402:ILE:HD13	1:s:419:PRO:HD2	1.96	0.47
1:t:255:GLU:HG2	1:t:278:PHE:CD2	2.49	0.47
1:t:348:GLU:HA	1:t:348:GLU:OE1	2.14	0.47
1:u:269:ARG:NH2	1:v:298:ALA:O	2.47	0.47
1:u:521:MET:HG2	1:1:485:ASN:ND2	2.29	0.47
1:v:106:SER:HB3	1:y:483:TRP:CZ3	2.48	0.47
1:w:254:PHE:CD1	1:w:255:GLU:HG3	2.48	0.47
1:x:285:TRP:CZ3	1:y:419:PRO:HD3	2.49	0.47
1:y:254:PHE:CD1	1:y:255:GLU:HG3	2.49	0.47
1:z:269:ARG:NH2	1:1:298:ALA:O	2.47	0.47
1:1:27:GLY:N	1:1:32:GLU:OE2	2.47	0.47
1:1:269:ARG:NH2	1:2:298:ALA:O	2.48	0.47
1:2:118:SER:OG	1:2:478:HIS:HB2	2.14	0.47
1:3:186:LEU:CD1	1:3:186:LEU:N	2.77	0.47
1:3:298:ALA:O	1:4:269:ARG:NH2	2.47	0.47
1:5:323:PRO:O	1:5:375:ASN:ND2	2.46	0.47
1:6:255:GLU:HG2	1:6:278:PHE:CD2	2.49	0.47
1:6:269:ARG:NH2	1:7:298:ALA:O	2.48	0.47
1:8:117:ALA:O	1:8:246:ASN:HB3	2.14	0.47
1:8:254:PHE:CD1	1:8:255:GLU:HG3	2.48	0.47
1:B:277:HIS:CE1	1:J:77:VAL:O	2.68	0.47
1:B:348:GLU:HA	1:B:348:GLU:OE1	2.14	0.47
1:B:398:ILE:HG12	1:B:401:MET:HE3	1.96	0.47
1:B:485:ASN:ND2	1:I:521:MET:HG2	2.29	0.47
1:C:117:ALA:O	1:C:246:ASN:HB3	2.14	0.47
1:F:341:PRO:HG3	1:Q:264:TRP:CH2	2.48	0.47
1:G:117:ALA:O	1:G:246:ASN:HB3	2.14	0.47
1:H:27:GLY:N	1:H:32:GLU:OE2	2.47	0.47
1:I:328:GLU:CG	1:I:331:LYS:HG3	2.45	0.47
1:K:117:ALA:O	1:K:246:ASN:HB3	2.14	0.47
1:K:255:GLU:HG2	1:K:278:PHE:CD2	2.49	0.47
1:K:269:ARG:NH2	1:a:298:ALA:O	2.47	0.47
1:K:419:PRO:HD2	1:8:402:ILE:HD13	1.96	0.47
1:M:238:ASP:O	1:M:241:THR:OG1	2.21	0.47
1:N:69:ILE:O	1:N:88:GLY:N	2.47	0.47
1:O:285:TRP:CZ3	1:m:419:PRO:HD3	2.49	0.47
1:S:269:ARG:NH2	1:U:298:ALA:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:328:GLU:CG	1:T:331:LYS:HG3	2.45	0.47
1:U:328:GLU:CG	1:U:331:LYS:HG3	2.45	0.47
1:U:485:ASN:ND2	1:V:521:MET:HG2	2.29	0.47
1:U:521:MET:HG2	1:V:485:ASN:ND2	2.29	0.47
1:V:77:VAL:O	1:X:277:HIS:CE1	2.67	0.47
1:V:117:ALA:O	1:V:246:ASN:HB3	2.14	0.47
1:V:255:GLU:HG2	1:V:278:PHE:CD2	2.49	0.47
1:V:327:ALA:N	1:V:377:ARG:HH21	2.11	0.47
1:X:298:ALA:O	1:e:269:ARG:NH2	2.48	0.47
1:X:348:GLU:OE1	1:X:348:GLU:HA	2.14	0.47
1:Y:64:ASP:OD1	1:Y:446:LYS:NZ	2.38	0.47
1:Z:254:PHE:CD1	1:Z:255:GLU:HG3	2.48	0.47
1:c:398:ILE:HG12	1:c:401:MET:HE3	1.96	0.47
1:e:255:GLU:HG2	1:e:278:PHE:CD2	2.49	0.47
1:f:219:GLU:CA	1:z:39:CYS:HB2	2.34	0.47
1:g:186:LEU:CD1	1:g:186:LEU:N	2.77	0.47
1:h:254:PHE:CD1	1:h:255:GLU:HG3	2.48	0.47
1:i:269:ARG:NH2	1:j:298:ALA:O	2.48	0.47
1:o:27:GLY:N	1:o:32:GLU:OE2	2.47	0.47
1:o:348:GLU:OE1	1:o:348:GLU:HA	2.14	0.47
1:p:117:ALA:O	1:p:246:ASN:HB3	2.14	0.47
1:p:485:ASN:ND2	1:s:521:MET:HG2	2.29	0.47
1:p:521:MET:HG2	1:s:485:ASN:ND2	2.29	0.47
1:r:269:ARG:NH2	1:s:298:ALA:O	2.47	0.47
1:r:277:HIS:CE1	1:s:77:VAL:O	2.67	0.47
1:s:323:PRO:O	1:s:375:ASN:ND2	2.46	0.47
1:t:309:VAL:CG2	1:v:378:GLY:O	2.62	0.47
1:t:402:ILE:HD13	1:u:419:PRO:HD2	1.96	0.47
1:u:398:ILE:HG12	1:u:401:MET:HE3	1.96	0.47
1:w:504:ASN:OD1	1:w:508:GLN:N	2.46	0.47
1:x:264:TRP:CH2	1:y:341:PRO:HG3	2.48	0.47
1:x:504:ASN:OD1	1:x:508:GLN:N	2.46	0.47
1:1:277:HIS:CE1	1:2:77:VAL:O	2.68	0.47
1:1:285:TRP:CZ3	1:2:419:PRO:HD3	2.49	0.47
1:1:398:ILE:HG12	1:1:401:MET:HE3	1.96	0.47
1:3:398:ILE:HG12	1:3:401:MET:HE3	1.96	0.47
1:6:398:ILE:HG12	1:6:401:MET:HE3	1.96	0.47
1:7:521:MET:HG2	1:8:485:ASN:ND2	2.29	0.47
1:8:249:SER:O	1:8:373:GLU:CG	2.54	0.47
1:A:254:PHE:CZ	1:G:314:SER:HB2	2.49	0.47
1:A:402:ILE:HD13	1:G:419:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:135:ILE:HD11	1:B:464:THR:HG22	1.95	0.47
1:D:328:GLU:CG	1:D:331:LYS:HG3	2.45	0.47
1:F:328:GLU:CG	1:F:331:LYS:HG3	2.45	0.47
1:G:255:GLU:HG2	1:G:278:PHE:CD2	2.49	0.47
1:G:328:GLU:CG	1:G:331:LYS:HG3	2.45	0.47
1:G:348:GLU:HA	1:G:348:GLU:OE1	2.14	0.47
1:I:288:GLY:CA	1:I:403:TRP:HB3	2.45	0.47
1:I:398:ILE:HG12	1:I:401:MET:HE3	1.96	0.47
1:L:117:ALA:O	1:L:246:ASN:HB3	2.14	0.47
1:L:288:GLY:CA	1:L:403:TRP:HB3	2.45	0.47
1:M:254:PHE:CD1	1:M:255:GLU:HG3	2.48	0.47
1:N:269:ARG:NH2	1:P:298:ALA:O	2.48	0.47
1:Q:27:GLY:N	1:Q:32:GLU:OE2	2.47	0.47
1:Q:255:GLU:HG2	1:Q:278:PHE:CD2	2.49	0.47
1:Q:288:GLY:CA	1:Q:403:TRP:HB3	2.45	0.47
1:R:269:ARG:NH2	1:S:298:ALA:O	2.48	0.47
1:S:255:GLU:HG2	1:S:278:PHE:CD2	2.49	0.47
1:S:277:HIS:CE1	1:U:77:VAL:O	2.67	0.47
1:S:485:ASN:ND2	1:T:521:MET:HG2	2.29	0.47
1:T:219:GLU:CA	1:i:39:CYS:HB2	2.34	0.47
1:Y:521:MET:HG2	1:Z:485:ASN:ND2	2.29	0.47
1:a:398:ILE:HG12	1:a:401:MET:HE3	1.96	0.47
1:b:348:GLU:HA	1:b:348:GLU:OE1	2.14	0.47
1:c:34:THR:HG1	1:c:131:ASN:H	1.61	0.47
1:c:255:GLU:HG2	1:c:278:PHE:CD2	2.49	0.47
1:c:419:PRO:HD2	1:p:402:ILE:HD13	1.96	0.47
1:d:118:SER:OG	1:d:478:HIS:HB2	2.14	0.47
1:d:285:TRP:CZ3	1:l:419:PRO:HD3	2.49	0.47
1:g:117:ALA:O	1:g:246:ASN:HB3	2.14	0.47
1:i:419:PRO:HD2	1:k:402:ILE:HD13	1.97	0.47
1:k:327:ALA:N	1:k:377:ARG:HH21	2.11	0.47
1:k:328:GLU:CG	1:k:331:LYS:HG3	2.45	0.47
1:k:348:GLU:OE1	1:k:348:GLU:HA	2.14	0.47
1:l:348:GLU:HA	1:l:348:GLU:OE1	2.14	0.47
1:o:277:HIS:CE1	1:p:77:VAL:O	2.67	0.47
1:p:255:GLU:HG2	1:p:278:PHE:CD2	2.49	0.47
1:r:255:GLU:HG2	1:r:278:PHE:CD2	2.49	0.47
1:s:328:GLU:CG	1:s:331:LYS:HG3	2.45	0.47
1:t:37:TRP:NE1	1:6:218:ASP:O	2.45	0.47
1:t:328:GLU:CG	1:t:331:LYS:HG3	2.45	0.47
1:t:419:PRO:HD3	1:v:285:TRP:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:286:LEU:HD11	1:u:398:ILE:HG13	1.95	0.47
1:u:328:GLU:CG	1:u:331:LYS:HG3	2.45	0.47
1:w:264:TRP:CH2	1:x:341:PRO:HG3	2.48	0.47
1:w:269:ARG:NH2	1:x:298:ALA:O	2.47	0.47
1:w:298:ALA:O	1:y:269:ARG:NH2	2.47	0.47
1:x:255:GLU:HG2	1:x:278:PHE:CD2	2.49	0.47
1:x:288:GLY:CA	1:x:403:TRP:HB3	2.45	0.47
1:y:328:GLU:CG	1:y:331:LYS:HG3	2.45	0.47
1:z:117:ALA:O	1:z:246:ASN:HB3	2.14	0.47
1:z:264:TRP:CH2	1:1:341:PRO:HG3	2.48	0.47
1:z:323:PRO:O	1:z:375:ASN:ND2	2.46	0.47
1:2:27:GLY:N	1:2:32:GLU:OE2	2.47	0.47
1:3:504:ASN:OD1	1:3:508:GLN:N	2.46	0.47
1:4:117:ALA:O	1:4:246:ASN:HB3	2.14	0.47
1:4:255:GLU:HG2	1:4:278:PHE:CD2	2.49	0.47
1:5:27:GLY:N	1:5:32:GLU:OE2	2.47	0.47
1:5:135:ILE:HD11	1:5:464:THR:HG22	1.95	0.47
1:5:285:TRP:CZ3	1:6:419:PRO:HD3	2.49	0.47
1:B:186:LEU:CD1	1:B:186:LEU:N	2.77	0.47
1:B:419:PRO:HD3	1:L:285:TRP:CZ3	2.49	0.47
1:C:27:GLY:N	1:C:32:GLU:OE2	2.47	0.47
1:D:327:ALA:N	1:D:377:ARG:HH21	2.11	0.47
1:D:348:GLU:OE1	1:D:348:GLU:HA	2.14	0.47
1:E:264:TRP:CH2	1:Q:341:PRO:HG3	2.48	0.47
1:E:269:ARG:NH2	1:Q:298:ALA:O	2.47	0.47
1:E:298:ALA:O	1:F:269:ARG:NH2	2.48	0.47
1:G:69:ILE:O	1:G:88:GLY:N	2.47	0.47
1:G:285:TRP:CZ3	1:I:419:PRO:HD3	2.49	0.47
1:G:402:ILE:HD13	1:I:419:PRO:HD2	1.96	0.47
1:H:323:PRO:O	1:H:375:ASN:ND2	2.46	0.47
1:H:416:GLN:HE21	1:Y:285:TRP:HZ3	1.60	0.47
1:J:27:GLY:N	1:J:32:GLU:OE2	2.47	0.47
1:J:186:LEU:CD1	1:J:186:LEU:N	2.77	0.47
1:J:269:ARG:NH2	1:L:298:ALA:O	2.47	0.47
1:L:64:ASP:OD1	1:L:446:LYS:NZ	2.38	0.47
1:O:419:PRO:HD3	1:n:285:TRP:CZ3	2.49	0.47
1:P:348:GLU:OE1	1:P:348:GLU:HA	2.14	0.47
1:Q:286:LEU:HD11	1:Q:398:ILE:HG13	1.96	0.47
1:R:277:HIS:CD2	1:S:84:THR:OG1	2.52	0.47
1:R:416:GLN:HE21	1:U:285:TRP:HZ3	1.60	0.47
1:S:117:ALA:O	1:S:246:ASN:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:323:PRO:O	1:U:375:ASN:ND2	2.46	0.47
1:V:402:ILE:HD13	1:e:419:PRO:HD2	1.96	0.47
1:Y:288:GLY:CA	1:Y:403:TRP:HB3	2.45	0.47
1:Z:288:GLY:CA	1:Z:403:TRP:HB3	2.45	0.47
1:a:286:LEU:HD11	1:a:398:ILE:HG13	1.95	0.47
1:d:504:ASN:OD1	1:d:508:GLN:N	2.46	0.47
1:f:235:TYR:CD2	1:f:440:PRO:HG3	2.50	0.47
1:f:348:GLU:HA	1:f:348:GLU:OE1	2.14	0.47
1:j:288:GLY:CA	1:j:403:TRP:HB3	2.45	0.47
1:m:521:MET:HG2	1:r:485:ASN:ND2	2.29	0.47
1:n:118:SER:OG	1:n:478:HIS:HB2	2.14	0.47
1:n:219:GLU:CA	1:r:39:CYS:HB2	2.34	0.47
1:o:279:SER:HG	1:p:314:SER:HB3	1.78	0.47
1:p:288:GLY:CA	1:p:403:TRP:HB3	2.45	0.47
1:q:269:ARG:NH2	1:r:298:ALA:O	2.48	0.47
1:q:416:GLN:HE21	1:s:285:TRP:HZ3	1.60	0.47
1:r:117:ALA:O	1:r:246:ASN:HB3	2.14	0.47
1:s:238:ASP:O	1:s:241:THR:OG1	2.21	0.47
1:t:117:ALA:O	1:t:246:ASN:HB3	2.14	0.47
1:u:288:GLY:CA	1:u:403:TRP:HB3	2.45	0.47
1:u:402:ILE:HD13	1:v:419:PRO:HD2	1.96	0.47
1:w:34:THR:HG1	1:w:131:ASN:H	1.60	0.47
1:x:27:GLY:N	1:x:32:GLU:OE2	2.47	0.47
1:z:288:GLY:CA	1:z:403:TRP:HB3	2.45	0.47
1:z:298:ALA:O	1:2:269:ARG:NH2	2.47	0.47
1:z:327:ALA:N	1:z:377:ARG:HH21	2.11	0.47
1:z:328:GLU:CG	1:z:331:LYS:HG3	2.45	0.47
1:1:186:LEU:CD1	1:1:186:LEU:N	2.77	0.47
1:1:256:ARG:CG	1:2:168:LEU:HB2	2.45	0.47
1:1:327:ALA:N	1:1:377:ARG:HH21	2.11	0.47
1:2:186:LEU:CD1	1:2:186:LEU:N	2.77	0.47
1:2:286:LEU:HD11	1:2:398:ILE:HG13	1.96	0.47
1:2:327:ALA:N	1:2:377:ARG:HH21	2.11	0.47
1:3:117:ALA:HB2	1:3:475:TYR:CD1	2.48	0.47
1:5:419:PRO:HD3	1:7:285:TRP:CZ3	2.49	0.47
1:7:288:GLY:CA	1:7:403:TRP:HB3	2.45	0.47
1:7:323:PRO:O	1:7:375:ASN:ND2	2.46	0.47
1:A:419:PRO:HD3	1:I:285:TRP:CD2	2.50	0.47
1:B:327:ALA:N	1:B:377:ARG:HH21	2.11	0.47
1:B:341:PRO:HG3	1:L:264:TRP:CH2	2.48	0.47
1:C:348:GLU:HA	1:C:348:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:39:CYS:HB2	1:G:219:GLU:CA	2.34	0.47
1:F:314:SER:HB3	1:Q:279:SER:HG	1.76	0.47
1:G:186:LEU:CD1	1:G:186:LEU:N	2.77	0.47
1:G:521:MET:HG2	1:H:485:ASN:ND2	2.29	0.47
1:H:419:PRO:HD3	1:Y:285:TRP:CZ3	2.49	0.47
1:J:286:LEU:HD11	1:J:398:ILE:HG13	1.96	0.47
1:J:521:MET:HG2	1:K:485:ASN:ND2	2.29	0.47
1:L:39:CYS:HB2	1:b:219:GLU:CA	2.34	0.47
1:L:323:PRO:O	1:L:375:ASN:ND2	2.46	0.47
1:L:328:GLU:CG	1:L:331:LYS:HG3	2.45	0.47
1:L:504:ASN:OD1	1:L:508:GLN:N	2.46	0.47
1:M:34:THR:HG1	1:M:131:ASN:H	1.61	0.47
1:M:398:ILE:HG12	1:M:401:MET:HE3	1.96	0.47
1:O:348:GLU:HA	1:O:348:GLU:OE1	2.14	0.47
1:P:288:GLY:CA	1:P:403:TRP:HB3	2.45	0.47
1:Q:118:SER:OG	1:Q:478:HIS:HB2	2.14	0.47
1:V:288:GLY:CA	1:V:403:TRP:HB3	2.45	0.47
1:Y:323:PRO:O	1:Y:375:ASN:ND2	2.46	0.47
1:Z:249:SER:O	1:Z:373:GLU:CG	2.54	0.47
1:a:64:ASP:OD1	1:a:446:LYS:NZ	2.38	0.47
1:b:235:TYR:CD2	1:b:440:PRO:HG3	2.50	0.47
1:c:328:GLU:CG	1:c:331:LYS:HG3	2.45	0.47
1:d:117:ALA:O	1:d:246:ASN:HB3	2.14	0.47
1:d:521:MET:HG2	1:n:485:ASN:ND2	2.29	0.47
1:e:186:LEU:CD1	1:e:186:LEU:N	2.77	0.47
1:e:328:GLU:CG	1:e:331:LYS:HG3	2.45	0.47
1:g:27:GLY:N	1:g:32:GLU:OE2	2.47	0.47
1:g:348:GLU:OE1	1:g:348:GLU:HA	2.14	0.47
1:h:288:GLY:CA	1:h:403:TRP:HB3	2.45	0.47
1:h:327:ALA:N	1:h:377:ARG:HH21	2.11	0.47
1:i:69:ILE:O	1:i:88:GLY:N	2.47	0.47
1:j:348:GLU:HA	1:j:348:GLU:OE1	2.14	0.47
1:k:286:LEU:HD11	1:k:398:ILE:HG13	1.96	0.47
1:m:285:TRP:CZ3	1:n:419:PRO:HD3	2.49	0.47
1:n:398:ILE:HG12	1:n:401:MET:HE3	1.96	0.47
1:n:504:ASN:OD1	1:n:508:GLN:N	2.46	0.47
1:t:288:GLY:CA	1:t:403:TRP:HB3	2.45	0.47
1:t:298:ALA:O	1:v:269:ARG:NH2	2.48	0.47
1:u:269:ARG:CG	1:v:296:GLY:O	2.59	0.47
1:v:398:ILE:HG12	1:v:401:MET:HE3	1.96	0.47
1:w:279:SER:HG	1:x:314:SER:HB3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:402:ILE:HD13	1:y:419:PRO:HD2	1.96	0.47
1:z:285:TRP:CZ3	1:1:419:PRO:HD3	2.49	0.47
1:z:504:ASN:OD1	1:z:508:GLN:N	2.46	0.47
1:1:135:ILE:HD11	1:1:464:THR:HG22	1.95	0.47
1:3:34:THR:HG1	1:3:131:ASN:H	1.60	0.47
1:5:256:ARG:CG	1:6:168:LEU:HB2	2.45	0.47
1:8:288:GLY:CA	1:8:403:TRP:HB3	2.45	0.47
1:A:256:ARG:CG	1:G:168:LEU:HB2	2.43	0.47
1:A:288:GLY:CA	1:A:403:TRP:HB3	2.45	0.47
1:A:348:GLU:HA	1:A:348:GLU:OE1	2.14	0.47
1:A:398:ILE:HG12	1:A:401:MET:HE3	1.96	0.47
1:B:256:ARG:CG	1:J:168:LEU:HB2	2.45	0.47
1:B:328:GLU:CG	1:B:331:LYS:HG3	2.45	0.47
1:C:168:LEU:HB2	1:M:256:ARG:CG	2.45	0.47
1:C:511:LEU:HD12	1:C:511:LEU:HA	1.73	0.47
1:D:235:TYR:CD2	1:D:440:PRO:HG3	2.50	0.47
1:D:256:ARG:CG	1:N:168:LEU:HB2	2.45	0.47
1:E:279:SER:HG	1:Q:314:SER:HB3	1.78	0.47
1:E:328:GLU:CG	1:E:331:LYS:HG3	2.45	0.47
1:E:398:ILE:HG12	1:E:401:MET:HE3	1.96	0.47
1:E:402:ILE:HD13	1:Q:419:PRO:HD2	1.96	0.47
1:F:419:PRO:HD2	1:Q:402:ILE:HD13	1.96	0.47
1:G:269:ARG:NH2	1:I:298:ALA:O	2.47	0.47
1:G:288:GLY:CA	1:G:403:TRP:HB3	2.45	0.47
1:H:256:ARG:CG	1:W:168:LEU:HB2	2.45	0.47
1:H:269:ARG:NH2	1:W:298:ALA:O	2.48	0.47
1:H:288:GLY:CA	1:H:403:TRP:HB3	2.45	0.47
1:J:117:ALA:O	1:J:246:ASN:HB3	2.14	0.47
1:J:256:ARG:CG	1:L:168:LEU:HB2	2.45	0.47
1:J:285:TRP:HZ3	1:L:416:GLN:HE21	1.60	0.47
1:J:288:GLY:CA	1:J:403:TRP:HB3	2.45	0.47
1:K:288:GLY:CA	1:K:403:TRP:HB3	2.45	0.47
1:K:398:ILE:HG12	1:K:401:MET:HE3	1.96	0.47
1:L:286:LEU:HD11	1:L:398:ILE:HG13	1.95	0.47
1:L:327:ALA:N	1:L:377:ARG:HH21	2.11	0.47
1:L:398:ILE:HG12	1:L:401:MET:HE3	1.96	0.47
1:M:288:GLY:CA	1:M:403:TRP:HB3	2.45	0.47
1:M:327:ALA:N	1:M:377:ARG:HH21	2.11	0.47
1:M:419:PRO:HD3	1:b:285:TRP:CZ3	2.49	0.47
1:N:39:CYS:HB2	1:m:219:GLU:CA	2.34	0.47
1:N:255:GLU:HG2	1:N:278:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:117:ALA:O	1:O:246:ASN:HB3	2.14	0.47
1:O:256:ARG:CG	1:m:168:LEU:HB2	2.45	0.47
1:P:117:ALA:O	1:P:246:ASN:HB3	2.14	0.47
1:P:118:SER:OG	1:P:478:HIS:HB2	2.14	0.47
1:P:255:GLU:HG2	1:P:278:PHE:CD2	2.49	0.47
1:R:398:ILE:HG12	1:R:401:MET:HE3	1.96	0.47
1:S:415:TRP:HA	1:S:434:CYS:H	1.80	0.47
1:T:235:TYR:CD2	1:T:440:PRO:HG3	2.50	0.47
1:T:256:ARG:CG	1:d:168:LEU:HB2	2.45	0.47
1:T:285:TRP:CZ3	1:d:419:PRO:HD3	2.49	0.47
1:U:235:TYR:CD2	1:U:440:PRO:HG3	2.50	0.47
1:U:255:GLU:HG2	1:U:278:PHE:CD2	2.49	0.47
1:U:415:TRP:HA	1:U:434:CYS:H	1.80	0.47
1:V:314:SER:HB3	1:X:279:SER:HG	1.78	0.47
1:W:117:ALA:O	1:W:246:ASN:HB3	2.14	0.47
1:W:485:ASN:ND2	1:X:521:MET:HG2	2.29	0.47
1:X:117:ALA:O	1:X:246:ASN:HB3	2.14	0.47
1:X:235:TYR:CD2	1:X:440:PRO:HG3	2.50	0.47
1:X:314:SER:HB3	1:e:279:SER:HG	1.77	0.47
1:Y:27:GLY:N	1:Y:32:GLU:OE2	2.47	0.47
1:Z:219:GLU:CA	1:a:39:CYS:HB2	2.34	0.47
1:Z:283:GLN:HA	1:Z:284:PRO:HD3	1.70	0.47
1:a:34:THR:HG1	1:a:131:ASN:H	1.60	0.47
1:a:327:ALA:N	1:a:377:ARG:HH21	2.11	0.47
1:b:288:GLY:CA	1:b:403:TRP:HB3	2.45	0.47
1:c:117:ALA:O	1:c:246:ASN:HB3	2.14	0.47
1:c:186:LEU:CD1	1:c:186:LEU:N	2.77	0.47
1:c:235:TYR:CD2	1:c:440:PRO:HG3	2.50	0.47
1:c:286:LEU:HD11	1:c:398:ILE:HG13	1.96	0.47
1:d:398:ILE:HG12	1:d:401:MET:HE3	1.96	0.47
1:d:485:ASN:ND2	1:n:521:MET:HG2	2.29	0.47
1:e:117:ALA:O	1:e:246:ASN:HB3	2.14	0.47
1:e:235:TYR:CD2	1:e:440:PRO:HG3	2.50	0.47
1:f:118:SER:OG	1:f:478:HIS:HB2	2.14	0.47
1:f:285:TRP:CZ3	1:h:419:PRO:HD3	2.49	0.47
1:f:288:GLY:CA	1:f:403:TRP:HB3	2.45	0.47
1:g:168:LEU:HB2	1:h:256:ARG:CG	2.45	0.47
1:g:485:ASN:ND2	1:z:521:MET:HG2	2.29	0.47
1:h:398:ILE:HG12	1:h:401:MET:HE3	1.96	0.47
1:j:117:ALA:O	1:j:246:ASN:HB3	2.14	0.47
1:j:118:SER:OG	1:j:478:HIS:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:255:GLU:HG2	1:j:278:PHE:CD2	2.49	0.47
1:j:256:ARG:CG	1:k:168:LEU:HB2	2.45	0.47
1:k:235:TYR:CD2	1:k:440:PRO:HG3	2.50	0.47
1:l:117:ALA:O	1:l:246:ASN:HB3	2.14	0.47
1:l:235:TYR:CD2	1:l:440:PRO:HG3	2.50	0.47
1:m:235:TYR:CD2	1:m:440:PRO:HG3	2.50	0.47
1:m:256:ARG:CG	1:n:168:LEU:HB2	2.45	0.47
1:m:415:TRP:HA	1:m:434:CYS:H	1.80	0.47
1:n:117:ALA:O	1:n:246:ASN:HB3	2.14	0.47
1:o:117:ALA:O	1:o:246:ASN:HB3	2.14	0.47
1:o:235:TYR:CD2	1:o:440:PRO:HG3	2.50	0.47
1:o:521:MET:HG2	1:6:485:ASN:ND2	2.29	0.47
1:p:27:GLY:N	1:p:32:GLU:OE2	2.47	0.47
1:q:348:GLU:HA	1:q:348:GLU:OE1	2.14	0.47
1:q:485:ASN:ND2	1:x:521:MET:HG2	2.29	0.47
1:r:137:LYS:HB3	1:r:137:LYS:HE2	1.73	0.47
1:r:286:LEU:HD11	1:r:398:ILE:HG13	1.96	0.47
1:r:415:TRP:HA	1:r:434:CYS:H	1.80	0.47
1:s:235:TYR:CD2	1:s:440:PRO:HG3	2.50	0.47
1:s:255:GLU:HG2	1:s:278:PHE:CD2	2.49	0.47
1:t:69:ILE:O	1:t:88:GLY:N	2.47	0.47
1:t:186:LEU:CD1	1:t:186:LEU:N	2.77	0.47
1:t:285:TRP:CZ3	1:u:419:PRO:HD3	2.49	0.47
1:t:291:ILE:HD11	1:v:398:ILE:HG21	1.97	0.47
1:u:117:ALA:O	1:u:246:ASN:HB3	2.14	0.47
1:u:238:ASP:O	1:u:241:THR:OG1	2.21	0.47
1:u:255:GLU:HG2	1:u:278:PHE:CD2	2.49	0.47
1:u:279:SER:HG	1:v:314:SER:HB3	1.77	0.47
1:u:485:ASN:ND2	1:1:521:MET:HG2	2.29	0.47
1:v:39:CYS:HB2	1:w:219:GLU:CA	2.34	0.47
1:v:288:GLY:CA	1:v:403:TRP:HB3	2.45	0.47
1:v:348:GLU:HA	1:v:348:GLU:OE1	2.14	0.47
1:w:328:GLU:CG	1:w:331:LYS:HG3	2.45	0.47
1:w:398:ILE:HG12	1:w:401:MET:HE3	1.96	0.47
1:w:402:ILE:HD13	1:x:419:PRO:HD2	1.96	0.47
1:x:118:SER:OG	1:x:478:HIS:HB2	2.14	0.47
1:x:254:PHE:CD1	1:x:255:GLU:HG3	2.48	0.47
1:x:286:LEU:HD11	1:x:398:ILE:HG13	1.96	0.47
1:z:64:ASP:OD1	1:z:446:LYS:NZ	2.38	0.47
1:z:168:LEU:HB2	1:2:256:ARG:CG	2.45	0.47
1:z:255:GLU:HG2	1:z:278:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:398:ILE:HG12	1:z:401:MET:HE3	1.96	0.47
1:1:235:TYR:CD2	1:1:440:PRO:HG3	2.50	0.47
1:1:348:GLU:OE1	1:1:348:GLU:HA	2.14	0.47
1:2:117:ALA:O	1:2:246:ASN:HB3	2.14	0.47
1:2:288:GLY:CA	1:2:403:TRP:HB3	2.45	0.47
1:2:521:MET:HG2	1:4:485:ASN:ND2	2.29	0.47
1:3:327:ALA:N	1:3:377:ARG:HH21	2.11	0.47
1:4:235:TYR:CD2	1:4:440:PRO:HG3	2.50	0.47
1:4:288:GLY:CA	1:4:403:TRP:HB3	2.45	0.47
1:4:398:ILE:HG12	1:4:401:MET:HE3	1.96	0.47
1:5:269:ARG:NH2	1:6:298:ALA:O	2.47	0.47
1:5:288:GLY:CA	1:5:403:TRP:HB3	2.45	0.47
1:5:416:GLN:HE21	1:7:285:TRP:HZ3	1.60	0.47
1:A:521:MET:HG2	1:F:485:ASN:ND2	2.29	0.47
1:B:235:TYR:CD2	1:B:440:PRO:HG3	2.50	0.47
1:B:314:SER:HB3	1:L:279:SER:HG	1.78	0.47
1:C:235:TYR:CD2	1:C:440:PRO:HG3	2.50	0.47
1:D:286:LEU:HD11	1:D:398:ILE:HG13	1.96	0.47
1:D:511:LEU:HD12	1:D:511:LEU:HA	1.73	0.47
1:E:419:PRO:HD2	1:F:402:ILE:HD13	1.96	0.47
1:H:168:LEU:HB2	1:Y:256:ARG:CG	2.45	0.47
1:H:235:TYR:CD2	1:H:440:PRO:HG3	2.50	0.47
1:H:285:TRP:HZ3	1:W:416:GLN:HE21	1.60	0.47
1:H:415:TRP:HA	1:H:434:CYS:H	1.80	0.47
1:H:419:PRO:HD2	1:Y:402:ILE:HD13	1.96	0.47
1:J:235:TYR:CD2	1:J:440:PRO:HG3	2.50	0.47
1:K:235:TYR:CD2	1:K:440:PRO:HG3	2.50	0.47
1:L:255:GLU:HG2	1:L:278:PHE:CD2	2.49	0.47
1:M:504:ASN:OD1	1:M:508:GLN:N	2.46	0.47
1:N:504:ASN:OD1	1:N:508:GLN:N	2.46	0.47
1:O:255:GLU:HG2	1:O:278:PHE:CD2	2.49	0.47
1:Q:521:MET:HG2	1:R:485:ASN:ND2	2.29	0.47
1:R:348:GLU:HA	1:R:348:GLU:OE1	2.14	0.47
1:S:69:ILE:O	1:S:88:GLY:N	2.47	0.47
1:S:286:LEU:HD11	1:S:398:ILE:HG13	1.96	0.47
1:S:348:GLU:HA	1:S:348:GLU:OE1	2.14	0.47
1:S:398:ILE:HG12	1:S:401:MET:HE3	1.96	0.47
1:T:298:ALA:O	1:l:269:ARG:NH2	2.48	0.47
1:T:415:TRP:HA	1:T:434:CYS:H	1.80	0.47
1:V:415:TRP:HA	1:V:434:CYS:H	1.80	0.47
1:X:398:ILE:HG12	1:X:401:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:419:PRO:HD3	1:e:285:TRP:CZ3	2.49	0.47
1:Y:235:TYR:CD2	1:Y:440:PRO:HG3	2.50	0.47
1:Z:235:TYR:CD2	1:Z:440:PRO:HG3	2.50	0.47
1:a:249:SER:O	1:a:373:GLU:CG	2.54	0.47
1:b:118:SER:OG	1:b:478:HIS:HB2	2.14	0.47
1:b:327:ALA:N	1:b:377:ARG:HH21	2.11	0.47
1:b:328:GLU:CG	1:b:331:LYS:HG3	2.45	0.47
1:d:285:TRP:HZ3	1:l:416:GLN:HE21	1.61	0.47
1:e:286:LEU:HD11	1:e:398:ILE:HG13	1.96	0.47
1:f:34:THR:HG1	1:f:131:ASN:H	1.59	0.47
1:g:235:TYR:CD2	1:g:440:PRO:HG3	2.50	0.47
1:h:485:ASN:ND2	1:k:521:MET:HG2	2.29	0.47
1:i:34:THR:HG1	1:i:131:ASN:H	1.62	0.47
1:i:255:GLU:HG2	1:i:278:PHE:CD2	2.49	0.47
1:i:298:ALA:O	1:k:269:ARG:NH2	2.47	0.47
1:m:269:ARG:NH2	1:n:298:ALA:O	2.47	0.47
1:o:398:ILE:HG12	1:o:401:MET:HE3	1.96	0.47
1:p:415:TRP:HA	1:p:434:CYS:H	1.80	0.47
1:q:277:HIS:CD2	1:r:84:THR:OG1	2.52	0.47
1:q:398:ILE:HG12	1:q:401:MET:HE3	1.96	0.47
1:r:348:GLU:HA	1:r:348:GLU:OE1	2.14	0.47
1:r:398:ILE:HG12	1:r:401:MET:HE3	1.96	0.47
1:s:415:TRP:HA	1:s:434:CYS:H	1.80	0.47
1:t:227:THR:HG21	1:6:151:THR:HG21	1.96	0.47
1:u:34:THR:HG1	1:u:131:ASN:H	1.60	0.47
1:v:521:MET:HG2	1:y:485:ASN:ND2	2.29	0.47
1:w:286:LEU:HD11	1:w:398:ILE:HG13	1.95	0.47
1:z:286:LEU:HD11	1:z:398:ILE:HG13	1.95	0.47
1:z:415:TRP:HA	1:z:434:CYS:H	1.80	0.47
1:z:416:GLN:HE21	1:2:285:TRP:HZ3	1.60	0.47
1:1:328:GLU:CG	1:1:331:LYS:HG3	2.45	0.47
1:2:235:TYR:CD2	1:2:440:PRO:HG3	2.50	0.47
1:4:328:GLU:CG	1:4:331:LYS:HG3	2.45	0.47
1:5:415:TRP:HA	1:5:434:CYS:H	1.80	0.47
1:5:419:PRO:HD2	1:7:402:ILE:HD13	1.96	0.47
1:7:27:GLY:N	1:7:32:GLU:OE2	2.47	0.47
1:7:235:TYR:CD2	1:7:440:PRO:HG3	2.50	0.47
1:8:235:TYR:CD2	1:8:440:PRO:HG3	2.50	0.47
1:B:521:MET:HG2	1:I:485:ASN:ND2	2.30	0.47
1:C:298:ALA:O	1:M:269:ARG:NH2	2.47	0.47
1:C:398:ILE:HG12	1:C:401:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:485:ASN:ND2	1:L:521:MET:HG2	2.30	0.47
1:D:168:LEU:HB2	1:P:256:ARG:CG	2.45	0.47
1:E:84:THR:OG1	1:F:277:HIS:CD2	2.52	0.47
1:E:327:ALA:N	1:E:377:ARG:HH21	2.11	0.47
1:F:286:LEU:HD11	1:F:398:ILE:HG13	1.96	0.47
1:G:415:TRP:HA	1:G:434:CYS:H	1.80	0.47
1:H:69:ILE:O	1:H:88:GLY:N	2.47	0.47
1:I:117:ALA:O	1:I:246:ASN:HB3	2.14	0.47
1:I:255:GLU:HG2	1:I:278:PHE:CD2	2.49	0.47
1:K:285:TRP:HZ3	1:a:416:GLN:HE21	1.61	0.47
1:K:298:ALA:O	1:8:269:ARG:NH2	2.48	0.47
1:K:328:GLU:CG	1:K:331:LYS:HG3	2.45	0.47
1:K:415:TRP:HA	1:K:434:CYS:H	1.80	0.47
1:L:415:TRP:HA	1:L:434:CYS:H	1.80	0.47
1:N:34:THR:HG1	1:N:131:ASN:H	1.62	0.47
1:O:235:TYR:CD2	1:O:440:PRO:HG3	2.50	0.47
1:Q:117:ALA:O	1:Q:246:ASN:HB3	2.14	0.47
1:R:291:ILE:HD11	1:U:398:ILE:HG21	1.97	0.47
1:T:168:LEU:HB2	1:l:256:ARG:CG	2.45	0.47
1:V:27:GLY:N	1:V:32:GLU:OE2	2.47	0.47
1:V:256:ARG:CG	1:e:168:LEU:HB2	2.45	0.47
1:V:323:PRO:O	1:V:375:ASN:ND2	2.46	0.47
1:X:77:VAL:O	1:e:277:HIS:CE1	2.68	0.47
1:Z:269:ARG:NH2	1:4:298:ALA:O	2.48	0.47
1:Z:298:ALA:O	1:3:269:ARG:NH2	2.48	0.47
1:Z:415:TRP:HA	1:Z:434:CYS:H	1.80	0.47
1:Z:416:GLN:HE21	1:3:285:TRP:HZ3	1.61	0.47
1:b:34:THR:HG1	1:b:131:ASN:H	1.61	0.47
1:b:415:TRP:HA	1:b:434:CYS:H	1.80	0.47
1:c:168:LEU:HB2	1:p:256:ARG:CG	2.45	0.47
1:f:415:TRP:HA	1:f:434:CYS:H	1.80	0.47
1:g:298:ALA:O	1:h:269:ARG:NH2	2.47	0.47
1:g:419:PRO:HD3	1:h:285:TRP:CZ3	2.49	0.47
1:h:504:ASN:OD1	1:h:508:GLN:N	2.46	0.47
1:i:168:LEU:HB2	1:k:256:ARG:CG	2.45	0.47
1:j:499:TYR:HB2	1:j:510:VAL:HG21	1.97	0.47
1:l:255:GLU:HG2	1:l:278:PHE:CD2	2.49	0.47
1:l:398:ILE:HG12	1:l:401:MET:HE3	1.96	0.47
1:m:286:LEU:HD11	1:m:398:ILE:HG13	1.96	0.47
1:n:235:TYR:CD2	1:n:440:PRO:HG3	2.50	0.47
1:o:485:ASN:ND2	1:6:521:MET:HG2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:291:ILE:HD11	1:s:398:ILE:HG21	1.97	0.47
1:t:415:TRP:HA	1:t:434:CYS:H	1.80	0.47
1:u:277:HIS:CE1	1:v:77:VAL:O	2.67	0.47
1:v:415:TRP:HA	1:v:434:CYS:H	1.80	0.47
1:w:255:GLU:HG2	1:w:278:PHE:CD2	2.49	0.47
1:3:249:SER:O	1:3:373:GLU:CG	2.54	0.47
1:4:69:ILE:O	1:4:88:GLY:N	2.47	0.47
1:5:69:ILE:O	1:5:88:GLY:N	2.47	0.47
1:5:168:LEU:HB2	1:7:256:ARG:CG	2.45	0.47
1:A:419:PRO:HD3	1:I:285:TRP:CZ3	2.50	0.47
1:C:419:PRO:HD3	1:M:285:TRP:CZ3	2.49	0.47
1:D:269:ARG:NH2	1:N:298:ALA:O	2.47	0.47
1:E:255:GLU:HG2	1:E:278:PHE:CD2	2.49	0.47
1:E:286:LEU:HD11	1:E:398:ILE:HG13	1.95	0.47
1:E:288:GLY:CA	1:E:403:TRP:HB3	2.45	0.47
1:G:235:TYR:CD2	1:G:440:PRO:HG3	2.50	0.47
1:G:256:ARG:CG	1:I:168:LEU:HB2	2.45	0.47
1:H:77:VAL:O	1:Y:277:HIS:CE1	2.68	0.47
1:N:499:TYR:HB2	1:N:510:VAL:HG21	1.98	0.47
1:O:269:ARG:NH2	1:m:298:ALA:O	2.48	0.47
1:O:398:ILE:HG12	1:O:401:MET:HE3	1.96	0.47
1:Q:254:PHE:CD1	1:Q:255:GLU:HG3	2.48	0.47
1:R:137:LYS:HB3	1:R:137:LYS:HE2	1.73	0.47
1:R:288:GLY:CA	1:R:403:TRP:HB3	2.45	0.47
1:R:298:ALA:O	1:U:269:ARG:NH2	2.47	0.47
1:T:269:ARG:NH2	1:d:298:ALA:O	2.47	0.47
1:T:286:LEU:HD11	1:T:398:ILE:HG13	1.95	0.47
1:W:323:PRO:O	1:W:375:ASN:ND2	2.46	0.47
1:Y:283:GLN:HA	1:Y:284:PRO:HD3	1.70	0.47
1:Z:398:ILE:HG12	1:Z:401:MET:HE3	1.96	0.47
1:Z:419:PRO:HD2	1:3:402:ILE:HD13	1.96	0.47
1:a:269:ARG:NH2	1:8:298:ALA:O	2.48	0.47
1:c:279:SER:HG	1:o:314:SER:HB3	1.77	0.47
1:c:285:TRP:CZ3	1:o:419:PRO:HD3	2.49	0.47
1:c:419:PRO:HD3	1:p:285:TRP:CZ3	2.49	0.47
1:d:235:TYR:CD2	1:d:440:PRO:HG3	2.50	0.47
1:d:323:PRO:O	1:d:375:ASN:ND2	2.46	0.47
1:d:327:ALA:N	1:d:377:ARG:HH21	2.11	0.47
1:e:69:ILE:O	1:e:88:GLY:N	2.47	0.47
1:f:327:ALA:N	1:f:377:ARG:HH21	2.11	0.47
1:g:314:SER:HB3	1:h:279:SER:HG	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:398:ILE:HG12	1:g:401:MET:HE3	1.96	0.47
1:g:511:LEU:HD12	1:g:511:LEU:HA	1.73	0.47
1:h:286:LEU:HD11	1:h:398:ILE:HG13	1.96	0.47
1:i:291:ILE:HD11	1:k:398:ILE:HG21	1.97	0.47
1:i:485:ASN:ND2	1:l:521:MET:HG2	2.29	0.47
1:i:504:ASN:OD1	1:i:508:GLN:N	2.46	0.47
1:k:511:LEU:HD12	1:k:511:LEU:HA	1.73	0.47
1:p:323:PRO:O	1:p:375:ASN:ND2	2.46	0.47
1:r:69:ILE:O	1:r:88:GLY:N	2.47	0.47
1:t:235:TYR:CD2	1:t:440:PRO:HG3	2.50	0.47
1:w:288:GLY:CA	1:w:403:TRP:HB3	2.45	0.47
1:w:419:PRO:HD2	1:y:402:ILE:HD13	1.96	0.47
1:y:286:LEU:HD11	1:y:398:ILE:HG13	1.95	0.47
1:y:288:GLY:CA	1:y:403:TRP:HB3	2.45	0.47
1:y:327:ALA:N	1:y:377:ARG:HH21	2.11	0.47
1:y:398:ILE:HG12	1:y:401:MET:HE3	1.96	0.47
1:2:398:ILE:HG12	1:2:401:MET:HE3	1.96	0.47
1:4:415:TRP:HA	1:4:434:CYS:H	1.80	0.47
1:5:77:VAL:O	1:7:277:HIS:CE1	2.68	0.47
1:5:285:TRP:HZ3	1:6:416:GLN:HE21	1.60	0.47
1:6:117:ALA:O	1:6:246:ASN:HB3	2.14	0.47
1:8:238:ASP:O	1:8:241:THR:OG1	2.21	0.47
1:8:398:ILE:HG12	1:8:401:MET:HE3	1.96	0.47
1:8:415:TRP:HA	1:8:434:CYS:H	1.80	0.47
1:A:69:ILE:O	1:A:88:GLY:N	2.47	0.46
1:A:323:PRO:O	1:A:375:ASN:ND2	2.46	0.46
1:A:415:TRP:HA	1:A:434:CYS:H	1.80	0.46
1:C:314:SER:HB3	1:M:279:SER:HG	1.77	0.46
1:C:327:ALA:N	1:C:377:ARG:HH21	2.11	0.46
1:D:298:ALA:O	1:P:269:ARG:NH2	2.48	0.46
1:D:398:ILE:HG21	1:N:291:ILE:HD11	1.97	0.46
1:D:521:MET:HG2	1:M:485:ASN:ND2	2.29	0.46
1:F:168:LEU:HB2	1:Q:256:ARG:CG	2.45	0.46
1:F:288:GLY:CA	1:F:403:TRP:HB3	2.45	0.46
1:F:398:ILE:HG12	1:F:401:MET:HE3	1.96	0.46
1:H:84:THR:OG1	1:Y:277:HIS:CD2	2.52	0.46
1:J:398:ILE:HG12	1:J:401:MET:HE3	1.96	0.46
1:J:415:TRP:HA	1:J:434:CYS:H	1.80	0.46
1:K:69:ILE:O	1:K:88:GLY:N	2.47	0.46
1:N:485:ASN:ND2	1:O:521:MET:HG2	2.29	0.46
1:P:499:TYR:HB2	1:P:510:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:485:ASN:ND2	1:R:521:MET:HG2	2.29	0.46
1:R:402:ILE:HD13	1:S:419:PRO:HD2	1.96	0.46
1:T:34:THR:HG1	1:T:131:ASN:H	1.60	0.46
1:W:521:MET:HG2	1:X:485:ASN:ND2	2.29	0.46
1:Z:291:ILE:HD11	1:3:398:ILE:HG21	1.97	0.46
1:a:285:TRP:HZ3	1:8:416:GLN:HE21	1.61	0.46
1:c:277:HIS:CE1	1:o:77:VAL:O	2.68	0.46
1:d:328:GLU:CG	1:d:331:LYS:HG3	2.45	0.46
1:d:499:TYR:HB2	1:d:510:VAL:HG21	1.97	0.46
1:e:39:CYS:HB2	1:h:219:GLU:CA	2.34	0.46
1:f:256:ARG:CG	1:h:168:LEU:HB2	2.45	0.46
1:f:398:ILE:HG12	1:f:401:MET:HE3	1.96	0.46
1:i:499:TYR:HB2	1:i:510:VAL:HG21	1.98	0.46
1:j:398:ILE:HG12	1:j:401:MET:HE3	1.96	0.46
1:l:504:ASN:OD1	1:l:508:GLN:N	2.46	0.46
1:n:323:PRO:O	1:n:375:ASN:ND2	2.46	0.46
1:p:286:LEU:HD11	1:p:398:ILE:HG13	1.95	0.46
1:q:288:GLY:CA	1:q:403:TRP:HB3	2.45	0.46
1:q:298:ALA:O	1:s:269:ARG:NH2	2.47	0.46
1:q:521:MET:HG2	1:x:485:ASN:ND2	2.29	0.46
1:t:521:MET:HG2	1:5:485:ASN:ND2	2.30	0.46
1:u:398:ILE:HG21	1:v:291:ILE:HD11	1.97	0.46
1:w:327:ALA:N	1:w:377:ARG:HH21	2.11	0.46
1:x:117:ALA:O	1:x:246:ASN:HB3	2.14	0.46
1:x:137:LYS:HB3	1:x:137:LYS:HE2	1.73	0.46
1:z:69:ILE:O	1:z:88:GLY:N	2.47	0.46
1:2:415:TRP:HA	1:2:434:CYS:H	1.80	0.46
1:2:499:TYR:HB2	1:2:510:VAL:HG21	1.97	0.46
1:3:288:GLY:CA	1:3:403:TRP:HB3	2.45	0.46
1:3:416:GLN:HE21	1:4:285:TRP:HZ3	1.61	0.46
1:5:84:THR:OG1	1:7:277:HIS:CD2	2.52	0.46
1:5:235:TYR:CD2	1:5:440:PRO:HG3	2.50	0.46
1:7:398:ILE:HG12	1:7:401:MET:HE3	1.96	0.46
1:7:485:ASN:ND2	1:8:521:MET:HG2	2.29	0.46
1:7:511:LEU:HD12	1:7:511:LEU:HA	1.73	0.46
1:A:378:GLY:O	1:G:309:VAL:CG2	2.64	0.46
1:C:521:MET:HG2	1:L:485:ASN:ND2	2.29	0.46
1:D:291:ILE:HD11	1:P:398:ILE:HG21	1.98	0.46
1:J:328:GLU:CG	1:J:331:LYS:HG3	2.45	0.46
1:J:398:ILE:HG21	1:L:291:ILE:HD11	1.97	0.46
1:J:402:ILE:HD13	1:L:419:PRO:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:499:TYR:HB2	1:J:510:VAL:HG21	1.98	0.46
1:K:309:VAL:CG2	1:8:378:GLY:O	2.64	0.46
1:L:235:TYR:CD2	1:L:440:PRO:HG3	2.50	0.46
1:M:168:LEU:HB2	1:b:256:ARG:CG	2.45	0.46
1:M:219:GLU:CA	1:c:39:CYS:HB2	2.34	0.46
1:M:286:LEU:HD11	1:M:398:ILE:HG13	1.95	0.46
1:O:416:GLN:HE21	1:n:285:TRP:HZ3	1.61	0.46
1:P:328:GLU:CG	1:P:331:LYS:HG3	2.45	0.46
1:S:256:ARG:CG	1:U:168:LEU:HB2	2.45	0.46
1:S:288:GLY:CA	1:S:403:TRP:HB3	2.45	0.46
1:S:521:MET:HG2	1:T:485:ASN:ND2	2.29	0.46
1:T:77:VAL:O	1:l:277:HIS:CE1	2.68	0.46
1:T:153:THR:HA	1:T:225:LEU:O	2.16	0.46
1:U:153:THR:HA	1:U:225:LEU:O	2.16	0.46
1:U:288:GLY:CA	1:U:403:TRP:HB3	2.45	0.46
1:V:285:TRP:CZ3	1:e:419:PRO:HD3	2.49	0.46
1:X:288:GLY:CA	1:X:403:TRP:HB3	2.45	0.46
1:X:499:TYR:HB2	1:X:510:VAL:HG21	1.97	0.46
1:Y:398:ILE:HG12	1:Y:401:MET:HE3	1.96	0.46
1:Z:378:GLY:O	1:4:309:VAL:CG2	2.64	0.46
1:a:398:ILE:HG21	1:8:291:ILE:HD11	1.97	0.46
1:a:402:ILE:HD13	1:8:419:PRO:HD2	1.96	0.46
1:b:398:ILE:HG12	1:b:401:MET:HE3	1.96	0.46
1:c:69:ILE:O	1:c:88:GLY:N	2.47	0.46
1:d:288:GLY:CA	1:d:403:TRP:HB3	2.45	0.46
1:e:288:GLY:CA	1:e:403:TRP:HB3	2.45	0.46
1:g:327:ALA:N	1:g:377:ARG:HH21	2.11	0.46
1:g:499:TYR:HB2	1:g:510:VAL:HG21	1.97	0.46
1:i:327:ALA:N	1:i:377:ARG:HH21	2.11	0.46
1:j:327:ALA:N	1:j:377:ARG:HH21	2.11	0.46
1:j:398:ILE:HG21	1:k:291:ILE:HD11	1.98	0.46
1:m:34:THR:HG1	1:m:131:ASN:H	1.60	0.46
1:m:153:THR:HA	1:m:225:LEU:O	2.16	0.46
1:m:485:ASN:ND2	1:r:521:MET:HG2	2.29	0.46
1:n:328:GLU:CG	1:n:331:LYS:HG3	2.45	0.46
1:n:499:TYR:HB2	1:n:510:VAL:HG21	1.98	0.46
1:o:499:TYR:HB2	1:o:510:VAL:HG21	1.97	0.46
1:r:288:GLY:CA	1:r:403:TRP:HB3	2.45	0.46
1:v:69:ILE:O	1:v:88:GLY:N	2.47	0.46
1:v:153:THR:HA	1:v:225:LEU:O	2.16	0.46
1:v:323:PRO:O	1:v:375:ASN:ND2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:249:SER:O	1:w:373:GLU:CG	2.54	0.46
1:x:256:ARG:CG	1:y:168:LEU:HB2	2.45	0.46
1:y:153:THR:HA	1:y:225:LEU:O	2.16	0.46
1:z:235:TYR:CD2	1:z:440:PRO:HG3	2.50	0.46
1:1:117:ALA:O	1:1:246:ASN:HB3	2.14	0.46
1:6:235:TYR:CD2	1:6:440:PRO:HG3	2.50	0.46
1:6:286:LEU:HD11	1:6:398:ILE:HG13	1.96	0.46
1:6:323:PRO:O	1:6:375:ASN:ND2	2.46	0.46
1:A:153:THR:HA	1:A:225:LEU:O	2.16	0.46
1:A:235:TYR:CD2	1:A:440:PRO:HG3	2.50	0.46
1:A:419:PRO:HD2	1:I:402:ILE:HD13	1.97	0.46
1:B:117:ALA:O	1:B:246:ASN:HB3	2.14	0.46
1:B:291:ILE:HD11	1:L:398:ILE:HG21	1.97	0.46
1:B:504:ASN:OD1	1:B:508:GLN:N	2.46	0.46
1:C:256:ARG:CG	1:b:168:LEU:HB2	2.45	0.46
1:C:499:TYR:HB2	1:C:510:VAL:HG21	1.97	0.46
1:E:415:TRP:HA	1:E:434:CYS:H	1.80	0.46
1:F:327:ALA:N	1:F:377:ARG:HH21	2.11	0.46
1:G:327:ALA:N	1:G:377:ARG:HH21	2.11	0.46
1:H:277:HIS:CE1	1:W:77:VAL:O	2.68	0.46
1:K:77:VAL:O	1:8:277:HIS:CE1	2.68	0.46
1:N:327:ALA:N	1:N:377:ARG:HH21	2.11	0.46
1:O:168:LEU:HB2	1:n:256:ARG:CG	2.45	0.46
1:O:277:HIS:CE1	1:m:77:VAL:O	2.68	0.46
1:O:504:ASN:OD1	1:O:508:GLN:N	2.46	0.46
1:P:327:ALA:N	1:P:377:ARG:HH21	2.11	0.46
1:P:398:ILE:HG12	1:P:401:MET:HE3	1.96	0.46
1:Q:398:ILE:HG12	1:Q:401:MET:HE3	1.96	0.46
1:R:168:LEU:HB2	1:U:256:ARG:CG	2.45	0.46
1:R:235:TYR:CD2	1:R:440:PRO:HG3	2.50	0.46
1:S:153:THR:HA	1:S:225:LEU:O	2.16	0.46
1:S:235:TYR:CD2	1:S:440:PRO:HG3	2.50	0.46
1:W:235:TYR:CD2	1:W:440:PRO:HG3	2.50	0.46
1:W:286:LEU:HD11	1:W:398:ILE:HG13	1.96	0.46
1:X:415:TRP:HA	1:X:434:CYS:H	1.80	0.46
1:Y:485:ASN:ND2	1:Z:521:MET:HG2	2.29	0.46
1:Z:238:ASP:O	1:Z:241:THR:OG1	2.21	0.46
1:a:235:TYR:CD2	1:a:440:PRO:HG3	2.50	0.46
1:a:288:GLY:CA	1:a:403:TRP:HB3	2.45	0.46
1:c:153:THR:HA	1:c:225:LEU:O	2.16	0.46
1:d:153:THR:HA	1:d:225:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:256:ARG:CG	1:l:168:LEU:HB2	2.46	0.46
1:e:153:THR:HA	1:e:225:LEU:O	2.16	0.46
1:g:521:MET:HG2	1:z:485:ASN:ND2	2.29	0.46
1:h:521:MET:HG2	1:k:485:ASN:ND2	2.29	0.46
1:i:235:TYR:CD2	1:i:440:PRO:HG3	2.50	0.46
1:j:269:ARG:NH2	1:k:298:ALA:O	2.48	0.46
1:j:328:GLU:CG	1:j:331:LYS:HG3	2.45	0.46
1:j:504:ASN:OD1	1:j:508:GLN:N	2.46	0.46
1:n:288:GLY:CA	1:n:403:TRP:HB3	2.45	0.46
1:n:327:ALA:N	1:n:377:ARG:HH21	2.11	0.46
1:o:256:ARG:CG	1:p:168:LEU:HB2	2.45	0.46
1:o:288:GLY:CA	1:o:403:TRP:HB3	2.45	0.46
1:p:69:ILE:O	1:p:88:GLY:N	2.47	0.46
1:p:502:MET:HE2	1:s:484:ASN:ND2	2.27	0.46
1:q:235:TYR:CD2	1:q:440:PRO:HG3	2.50	0.46
1:q:402:ILE:HD13	1:r:419:PRO:HD2	1.96	0.46
1:r:153:THR:HA	1:r:225:LEU:O	2.16	0.46
1:r:235:TYR:CD2	1:r:440:PRO:HG3	2.50	0.46
1:s:153:THR:HA	1:s:225:LEU:O	2.16	0.46
1:t:327:ALA:N	1:t:377:ARG:HH21	2.11	0.46
1:w:256:ARG:CG	1:x:168:LEU:HB2	2.45	0.46
1:w:415:TRP:HA	1:w:434:CYS:H	1.80	0.46
1:x:398:ILE:HG12	1:x:401:MET:HE3	1.96	0.46
1:y:415:TRP:HA	1:y:434:CYS:H	1.80	0.46
1:z:291:ILE:HD11	1:2:398:ILE:HG21	1.97	0.46
1:z:398:ILE:HG21	1:1:291:ILE:HD11	1.97	0.46
1:z:419:PRO:HD2	1:2:402:ILE:HD13	1.96	0.46
1:2:328:GLU:CG	1:2:331:LYS:HG3	2.45	0.46
1:3:39:CYS:HB2	1:8:219:GLU:CA	2.34	0.46
1:3:235:TYR:CD2	1:3:440:PRO:HG3	2.50	0.46
1:5:398:ILE:HG12	1:5:401:MET:HE3	1.96	0.46
1:8:286:LEU:HD11	1:8:398:ILE:HG13	1.95	0.46
1:A:39:CYS:HB2	1:E:219:GLU:CA	2.35	0.46
1:A:499:TYR:HB2	1:A:510:VAL:HG21	1.98	0.46
1:B:37:TRP:CD1	1:B:37:TRP:C	2.94	0.46
1:D:118:SER:OG	1:D:478:HIS:HB2	2.14	0.46
1:D:288:GLY:CA	1:D:403:TRP:HB3	2.45	0.46
1:E:326:ARG:HH11	1:E:331:LYS:CD	2.29	0.46
1:F:153:THR:HA	1:F:225:LEU:O	2.16	0.46
1:J:326:ARG:HH11	1:J:331:LYS:CD	2.29	0.46
1:K:168:LEU:HB2	1:8:256:ARG:CG	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:291:ILE:HD11	1:b:398:ILE:HG21	1.98	0.46
1:M:328:GLU:CG	1:M:331:LYS:HG3	2.45	0.46
1:P:326:ARG:HH11	1:P:331:LYS:CD	2.29	0.46
1:P:504:ASN:OD1	1:P:508:GLN:N	2.46	0.46
1:Q:235:TYR:CD2	1:Q:440:PRO:HG3	2.50	0.46
1:S:326:ARG:HH11	1:S:331:LYS:CD	2.29	0.46
1:U:129:ILE:HG23	1:U:465:PHE:CD1	2.51	0.46
1:U:484:ASN:ND2	1:V:502:MET:HE2	2.27	0.46
1:V:168:LEU:HB2	1:X:256:ARG:CG	2.45	0.46
1:V:286:LEU:HD11	1:V:398:ILE:HG13	1.96	0.46
1:V:326:ARG:HH11	1:V:331:LYS:CD	2.29	0.46
1:V:398:ILE:HG21	1:e:291:ILE:HD11	1.97	0.46
1:W:129:ILE:HG23	1:W:465:PHE:CD1	2.51	0.46
1:W:328:GLU:CG	1:W:331:LYS:HG3	2.45	0.46
1:Z:168:LEU:HB2	1:3:256:ARG:CG	2.45	0.46
1:Z:256:ARG:CG	1:4:168:LEU:HB2	2.45	0.46
1:Z:309:VAL:CG2	1:3:378:GLY:O	2.64	0.46
1:Z:499:TYR:HB2	1:Z:510:VAL:HG21	1.98	0.46
1:a:328:GLU:CG	1:a:331:LYS:HG3	2.45	0.46
1:a:378:GLY:O	1:8:309:VAL:CG2	2.64	0.46
1:c:288:GLY:CA	1:c:403:TRP:HB3	2.45	0.46
1:c:291:ILE:HD11	1:p:398:ILE:HG21	1.97	0.46
1:c:326:ARG:HH11	1:c:331:LYS:CD	2.29	0.46
1:c:416:GLN:HG2	1:c:429:SER:HB2	1.98	0.46
1:d:398:ILE:HG21	1:l:291:ILE:HD11	1.97	0.46
1:e:326:ARG:HH11	1:e:331:LYS:CD	2.29	0.46
1:e:415:TRP:HA	1:e:434:CYS:H	1.80	0.46
1:f:168:LEU:HB2	1:g:256:ARG:CG	2.45	0.46
1:f:398:ILE:HG21	1:h:291:ILE:HD11	1.98	0.46
1:h:328:GLU:CG	1:h:331:LYS:HG3	2.45	0.46
1:k:118:SER:OG	1:k:478:HIS:HB2	2.14	0.46
1:k:288:GLY:CA	1:k:403:TRP:HB3	2.45	0.46
1:n:153:THR:HA	1:n:225:LEU:O	2.16	0.46
1:o:37:TRP:NE1	1:7:218:ASP:O	2.42	0.46
1:o:402:ILE:HD13	1:p:419:PRO:HD2	1.96	0.46
1:p:153:THR:HA	1:p:225:LEU:O	2.16	0.46
1:p:326:ARG:HH11	1:p:331:LYS:CD	2.29	0.46
1:q:168:LEU:HB2	1:s:256:ARG:CG	2.45	0.46
1:q:499:TYR:HB2	1:q:510:VAL:HG21	1.98	0.46
1:r:256:ARG:CG	1:s:168:LEU:HB2	2.45	0.46
1:s:129:ILE:HG23	1:s:465:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:288:GLY:CA	1:s:403:TRP:HB3	2.45	0.46
1:u:256:ARG:CG	1:v:168:LEU:HB2	2.45	0.46
1:u:327:ALA:N	1:u:377:ARG:HH21	2.11	0.46
1:v:235:TYR:CD2	1:v:440:PRO:HG3	2.50	0.46
1:v:499:TYR:HB2	1:v:510:VAL:HG21	1.97	0.46
1:w:37:TRP:C	1:w:37:TRP:CD1	2.94	0.46
1:w:84:THR:OG1	1:y:277:HIS:CD2	2.52	0.46
1:w:326:ARG:HH11	1:w:331:LYS:CD	2.29	0.46
1:z:348:GLU:HA	1:z:348:GLU:OE1	2.14	0.46
1:1:504:ASN:OD1	1:1:508:GLN:N	2.46	0.46
1:2:326:ARG:HH11	1:2:331:LYS:CD	2.29	0.46
1:3:328:GLU:CG	1:3:331:LYS:HG3	2.45	0.46
1:5:286:LEU:HD11	1:5:398:ILE:HG13	1.96	0.46
1:6:326:ARG:HH11	1:6:331:LYS:CD	2.29	0.46
1:6:328:GLU:CG	1:6:331:LYS:HG3	2.45	0.46
1:8:129:ILE:HG23	1:8:465:PHE:CD1	2.51	0.46
1:A:309:VAL:CG2	1:I:378:GLY:O	2.63	0.46
1:A:326:ARG:HH11	1:A:331:LYS:CD	2.29	0.46
1:C:328:GLU:CG	1:C:331:LYS:HG3	2.45	0.46
1:E:37:TRP:CD1	1:E:37:TRP:C	2.94	0.46
1:E:249:SER:O	1:E:373:GLU:CG	2.54	0.46
1:E:256:ARG:CG	1:Q:168:LEU:HB2	2.45	0.46
1:F:235:TYR:CD2	1:F:440:PRO:HG3	2.50	0.46
1:F:415:TRP:HA	1:F:434:CYS:H	1.80	0.46
1:H:286:LEU:HD11	1:H:398:ILE:HG13	1.96	0.46
1:H:328:GLU:CG	1:H:331:LYS:HG3	2.45	0.46
1:H:398:ILE:HG12	1:H:401:MET:HE3	1.96	0.46
1:M:77:VAL:O	1:b:277:HIS:CE1	2.68	0.46
1:N:37:TRP:C	1:N:37:TRP:CD1	2.94	0.46
1:O:288:GLY:CA	1:O:403:TRP:HB3	2.45	0.46
1:O:291:ILE:HD11	1:n:398:ILE:HG21	1.97	0.46
1:O:298:ALA:O	1:n:269:ARG:NH2	2.48	0.46
1:P:37:TRP:C	1:P:37:TRP:CD1	2.94	0.46
1:Q:328:GLU:CG	1:Q:331:LYS:HG3	2.45	0.46
1:R:277:HIS:CE1	1:S:77:VAL:O	2.68	0.46
1:R:499:TYR:HB2	1:R:510:VAL:HG21	1.98	0.46
1:T:288:GLY:CA	1:T:403:TRP:HB3	2.45	0.46
1:V:69:ILE:O	1:V:88:GLY:N	2.47	0.46
1:V:153:THR:HA	1:V:225:LEU:O	2.16	0.46
1:V:419:PRO:HD2	1:X:402:ILE:HD13	1.96	0.46
1:W:256:ARG:CG	1:Y:168:LEU:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:326:ARG:HH11	1:W:331:LYS:CD	2.29	0.46
1:X:153:THR:HA	1:X:225:LEU:O	2.16	0.46
1:Y:326:ARG:HH11	1:Y:331:LYS:CD	2.29	0.46
1:Z:129:ILE:HG23	1:Z:465:PHE:CD1	2.51	0.46
1:Z:277:HIS:CE1	1:4:77:VAL:O	2.68	0.46
1:a:256:ARG:CG	1:8:168:LEU:HB2	2.45	0.46
1:c:129:ILE:HG23	1:c:465:PHE:CD1	2.51	0.46
1:c:415:TRP:HA	1:c:434:CYS:H	1.80	0.46
1:d:269:ARG:NH2	1:l:298:ALA:O	2.48	0.46
1:e:129:ILE:HG23	1:e:465:PHE:CD1	2.51	0.46
1:e:416:GLN:HG2	1:e:429:SER:HB2	1.98	0.46
1:f:77:VAL:O	1:g:277:HIS:CE1	2.67	0.46
1:f:277:HIS:CE1	1:h:77:VAL:O	2.68	0.46
1:f:326:ARG:HH11	1:f:331:LYS:CD	2.29	0.46
1:g:415:TRP:HA	1:g:434:CYS:H	1.80	0.46
1:h:415:TRP:HA	1:h:434:CYS:H	1.80	0.46
1:i:415:TRP:HA	1:i:434:CYS:H	1.80	0.46
1:j:37:TRP:C	1:j:37:TRP:CD1	2.94	0.46
1:j:326:ARG:HH11	1:j:331:LYS:CD	2.29	0.46
1:j:415:TRP:HA	1:j:434:CYS:H	1.80	0.46
1:l:288:GLY:CA	1:l:403:TRP:HB3	2.45	0.46
1:m:288:GLY:CA	1:m:403:TRP:HB3	2.45	0.46
1:n:238:ASP:O	1:n:241:THR:OG1	2.21	0.46
1:o:398:ILE:HG21	1:p:291:ILE:HD11	1.97	0.46
1:o:415:TRP:HA	1:o:434:CYS:H	1.80	0.46
1:q:256:ARG:CG	1:r:168:LEU:HB2	2.45	0.46
1:q:277:HIS:CE1	1:r:77:VAL:O	2.68	0.46
1:r:83:LYS:HD3	1:r:83:LYS:HA	1.78	0.46
1:r:326:ARG:HH11	1:r:331:LYS:CD	2.29	0.46
1:t:168:LEU:HB2	1:v:256:ARG:CG	2.45	0.46
1:u:499:TYR:HB2	1:u:510:VAL:HG21	1.98	0.46
1:v:129:ILE:HG23	1:v:465:PHE:CD1	2.51	0.46
1:v:326:ARG:HH11	1:v:331:LYS:CD	2.29	0.46
1:x:235:TYR:CD2	1:x:440:PRO:HG3	2.50	0.46
1:1:37:TRP:C	1:1:37:TRP:CD1	2.94	0.46
1:2:37:TRP:CD1	1:2:37:TRP:C	2.94	0.46
1:3:419:PRO:HD2	1:4:402:ILE:HD13	1.96	0.46
1:5:277:HIS:CE1	1:6:77:VAL:O	2.68	0.46
1:6:129:ILE:HG23	1:6:465:PHE:CD1	2.51	0.46
1:6:256:ARG:CG	1:7:168:LEU:HB2	2.45	0.46
1:7:326:ARG:HH11	1:7:331:LYS:CD	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:69:ILE:O	1:8:88:GLY:N	2.47	0.46
1:8:283:GLN:HA	1:8:284:PRO:HD3	1.70	0.46
1:8:499:TYR:HB2	1:8:510:VAL:HG21	1.98	0.46
1:A:129:ILE:HG23	1:A:465:PHE:CD1	2.51	0.46
1:B:378:GLY:O	1:J:309:VAL:CG2	2.64	0.46
1:B:402:ILE:HD13	1:J:419:PRO:HD2	1.96	0.46
1:C:378:GLY:O	1:b:309:VAL:CG2	2.64	0.46
1:D:416:GLN:HG2	1:D:429:SER:HB2	1.98	0.46
1:D:485:ASN:ND2	1:M:521:MET:HG2	2.29	0.46
1:E:153:THR:HA	1:E:225:LEU:O	2.16	0.46
1:F:84:THR:OG1	1:Q:277:HIS:CD2	2.52	0.46
1:G:326:ARG:HH11	1:G:331:LYS:CD	2.29	0.46
1:G:398:ILE:HG21	1:I:291:ILE:HD11	1.97	0.46
1:G:416:GLN:HG2	1:G:429:SER:HB2	1.98	0.46
1:I:153:THR:HA	1:I:225:LEU:O	2.16	0.46
1:I:235:TYR:CD2	1:I:440:PRO:HG3	2.50	0.46
1:I:499:TYR:HB2	1:I:510:VAL:HG21	1.98	0.46
1:J:37:TRP:CD1	1:J:37:TRP:C	2.94	0.46
1:K:256:ARG:CG	1:a:168:LEU:HB2	2.45	0.46
1:K:402:ILE:HD13	1:a:419:PRO:HD2	1.96	0.46
1:L:348:GLU:OE1	1:L:348:GLU:HA	2.14	0.46
1:M:309:VAL:CG2	1:b:378:GLY:O	2.64	0.46
1:N:235:TYR:CD2	1:N:440:PRO:HG3	2.50	0.46
1:N:415:TRP:HA	1:N:434:CYS:H	1.80	0.46
1:N:502:MET:HE2	1:O:484:ASN:ND2	2.27	0.46
1:P:153:THR:HA	1:P:225:LEU:O	2.16	0.46
1:P:235:TYR:CD2	1:P:440:PRO:HG3	2.50	0.46
1:P:415:TRP:HA	1:P:434:CYS:H	1.80	0.46
1:Q:326:ARG:HH11	1:Q:331:LYS:CD	2.29	0.46
1:S:499:TYR:HB2	1:S:510:VAL:HG21	1.97	0.46
1:T:83:LYS:HD3	1:T:83:LYS:HA	1.78	0.46
1:T:129:ILE:HG23	1:T:465:PHE:CD1	2.51	0.46
1:V:291:ILE:HD11	1:X:398:ILE:HG21	1.97	0.46
1:W:402:ILE:HD13	1:Y:419:PRO:HD2	1.96	0.46
1:X:37:TRP:NE1	1:Y:218:ASP:O	2.42	0.46
1:X:168:LEU:HB2	1:e:256:ARG:CG	2.45	0.46
1:Y:328:GLU:CG	1:Y:331:LYS:HG3	2.45	0.46
1:Y:511:LEU:HD12	1:Y:511:LEU:HA	1.73	0.46
1:a:415:TRP:HA	1:a:434:CYS:H	1.80	0.46
1:d:238:ASP:O	1:d:241:THR:OG1	2.21	0.46
1:f:309:VAL:CG2	1:g:378:GLY:O	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:378:GLY:O	1:h:309:VAL:CG2	2.64	0.46
1:g:249:SER:O	1:g:373:GLU:CG	2.54	0.46
1:g:328:GLU:CG	1:g:331:LYS:HG3	2.45	0.46
1:i:37:TRP:C	1:i:37:TRP:CD1	2.94	0.46
1:i:77:VAL:O	1:k:277:HIS:CE1	2.67	0.46
1:i:502:MET:HE2	1:l:484:ASN:ND2	2.27	0.46
1:j:129:ILE:HG23	1:j:465:PHE:CD1	2.51	0.46
1:j:153:THR:HA	1:j:225:LEU:O	2.16	0.46
1:m:129:ILE:HG23	1:m:465:PHE:CD1	2.51	0.46
1:p:129:ILE:HG23	1:p:465:PHE:CD1	2.51	0.46
1:t:326:ARG:HH11	1:t:331:LYS:CD	2.29	0.46
1:t:416:GLN:HG2	1:t:429:SER:HB2	1.98	0.46
1:t:451:PRO:HB3	1:y:183:ILE:HD13	1.97	0.46
1:u:153:THR:HA	1:u:225:LEU:O	2.16	0.46
1:u:235:TYR:CD2	1:u:440:PRO:HG3	2.50	0.46
1:x:326:ARG:HH11	1:x:331:LYS:CD	2.29	0.46
1:x:328:GLU:CG	1:x:331:LYS:HG3	2.45	0.46
1:3:168:LEU:HB2	1:4:256:ARG:CG	2.45	0.46
1:3:326:ARG:HH11	1:3:331:LYS:CD	2.29	0.46
1:6:288:GLY:CA	1:6:403:TRP:HB3	2.45	0.46
1:8:153:THR:HA	1:8:225:LEU:O	2.16	0.46
1:A:416:GLN:HG2	1:A:429:SER:HB2	1.98	0.46
1:C:129:ILE:HG23	1:C:465:PHE:CD1	2.51	0.46
1:C:277:HIS:CE1	1:b:77:VAL:O	2.67	0.46
1:C:326:ARG:HH11	1:C:331:LYS:CD	2.29	0.46
1:C:415:TRP:HA	1:C:434:CYS:H	1.80	0.46
1:C:486:TYR:CE1	1:C:488:MET:HE3	2.51	0.46
1:E:235:TYR:CD2	1:E:440:PRO:HG3	2.50	0.46
1:E:378:GLY:O	1:Q:309:VAL:CG2	2.64	0.46
1:F:129:ILE:HG23	1:F:465:PHE:CD1	2.51	0.46
1:F:499:TYR:HB2	1:F:510:VAL:HG21	1.98	0.46
1:H:291:ILE:HD11	1:Y:398:ILE:HG21	1.97	0.46
1:H:402:ILE:HD13	1:W:419:PRO:HD2	1.96	0.46
1:J:416:GLN:HG2	1:J:429:SER:HB2	1.98	0.46
1:K:37:TRP:C	1:K:37:TRP:CD1	2.94	0.46
1:K:277:HIS:CE1	1:a:77:VAL:O	2.67	0.46
1:K:283:GLN:HA	1:K:284:PRO:HD3	1.70	0.46
1:L:326:ARG:HH11	1:L:331:LYS:CD	2.29	0.46
1:M:415:TRP:HA	1:M:434:CYS:H	1.80	0.46
1:P:129:ILE:HG23	1:P:465:PHE:CD1	2.51	0.46
1:Q:486:TYR:CE1	1:Q:488:MET:HE3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:129:ILE:HG23	1:R:465:PHE:CD1	2.51	0.46
1:R:256:ARG:CG	1:S:168:LEU:HB2	2.45	0.46
1:S:83:LYS:HD3	1:S:83:LYS:HA	1.78	0.46
1:T:291:ILE:HD11	1:l:398:ILE:HG21	1.98	0.46
1:T:356:ILE:HD13	1:l:264:TRP:CE3	2.51	0.46
1:V:129:ILE:HG23	1:V:465:PHE:CD1	2.51	0.46
1:W:288:GLY:CA	1:W:403:TRP:HB3	2.45	0.46
1:W:378:GLY:O	1:Y:309:VAL:CG2	2.64	0.46
1:W:415:TRP:HA	1:W:434:CYS:H	1.80	0.46
1:W:504:ASN:OD1	1:W:508:GLN:N	2.46	0.46
1:X:309:VAL:CG2	1:e:378:GLY:O	2.64	0.46
1:Y:83:LYS:HD3	1:Y:83:LYS:HA	1.78	0.46
1:Y:129:ILE:HG23	1:Y:465:PHE:CD1	2.51	0.46
1:Z:286:LEU:HD11	1:Z:398:ILE:HG13	1.96	0.46
1:Z:326:ARG:HH11	1:Z:331:LYS:CD	2.29	0.46
1:a:326:ARG:HH11	1:a:331:LYS:CD	2.29	0.46
1:a:486:TYR:CE1	1:a:488:MET:HE3	2.51	0.46
1:b:37:TRP:CD1	1:b:37:TRP:C	2.94	0.46
1:b:326:ARG:HH11	1:b:331:LYS:CD	2.29	0.46
1:c:256:ARG:CG	1:o:168:LEU:HB2	2.45	0.46
1:c:378:GLY:O	1:o:309:VAL:CG2	2.64	0.46
1:f:37:TRP:CD1	1:f:37:TRP:C	2.94	0.46
1:f:269:ARG:NH2	1:h:298:ALA:O	2.48	0.46
1:f:291:ILE:HD11	1:g:398:ILE:HG21	1.97	0.46
1:g:129:ILE:HG23	1:g:465:PHE:CD1	2.51	0.46
1:g:309:VAL:CG2	1:h:378:GLY:O	2.64	0.46
1:g:326:ARG:HH11	1:g:331:LYS:CD	2.29	0.46
1:g:486:TYR:CE1	1:g:488:MET:HE3	2.51	0.46
1:h:486:TYR:CE1	1:h:488:MET:HE3	2.51	0.46
1:j:235:TYR:CD2	1:j:440:PRO:HG3	2.50	0.46
1:m:416:GLN:HG2	1:m:429:SER:HB2	1.98	0.46
1:m:499:TYR:HB2	1:m:510:VAL:HG21	1.98	0.46
1:o:153:THR:HA	1:o:225:LEU:O	2.16	0.46
1:q:309:VAL:CG2	1:s:378:GLY:O	2.64	0.46
1:q:504:ASN:OD1	1:q:508:GLN:N	2.46	0.46
1:w:153:THR:HA	1:w:225:LEU:O	2.16	0.46
1:w:235:TYR:CD2	1:w:440:PRO:HG3	2.50	0.46
1:w:378:GLY:O	1:x:309:VAL:CG2	2.64	0.46
1:x:486:TYR:CE1	1:x:488:MET:HE3	2.51	0.46
1:y:499:TYR:HB2	1:y:510:VAL:HG21	1.98	0.46
1:1:378:GLY:O	1:2:309:VAL:CG2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:153:THR:HA	1:2:225:LEU:O	2.16	0.46
1:2:416:GLN:HG2	1:2:429:SER:HB2	1.98	0.46
1:3:415:TRP:HA	1:3:434:CYS:H	1.80	0.46
1:3:486:TYR:CE1	1:3:488:MET:HE3	2.51	0.46
1:4:37:TRP:C	1:4:37:TRP:CD1	2.94	0.46
1:4:416:GLN:HG2	1:4:429:SER:HB2	1.98	0.46
1:5:328:GLU:CG	1:5:331:LYS:HG3	2.45	0.46
1:5:499:TYR:HB2	1:5:510:VAL:HG21	1.97	0.46
1:6:378:GLY:O	1:7:309:VAL:CG2	2.64	0.46
1:6:415:TRP:HA	1:6:434:CYS:H	1.80	0.46
1:7:129:ILE:HG23	1:7:465:PHE:CD1	2.51	0.46
1:8:326:ARG:HH11	1:8:331:LYS:CD	2.29	0.46
1:A:486:TYR:CE1	1:A:488:MET:HE3	2.51	0.46
1:C:37:TRP:CD1	1:C:37:TRP:C	2.94	0.46
1:C:249:SER:O	1:C:373:GLU:CG	2.54	0.46
1:C:309:VAL:CG2	1:M:378:GLY:O	2.64	0.46
1:C:356:ILE:HD13	1:M:264:TRP:CE3	2.51	0.46
1:C:398:ILE:HG21	1:b:291:ILE:HD11	1.97	0.46
1:D:277:HIS:CE1	1:N:77:VAL:O	2.67	0.46
1:E:486:TYR:CE1	1:E:488:MET:HE3	2.51	0.46
1:E:499:TYR:HB2	1:E:510:VAL:HG21	1.97	0.46
1:H:499:TYR:HB2	1:H:510:VAL:HG21	1.98	0.46
1:K:416:GLN:HG2	1:K:429:SER:HB2	1.98	0.46
1:M:298:ALA:O	1:b:269:ARG:NH2	2.48	0.46
1:M:416:GLN:HG2	1:M:429:SER:HB2	1.98	0.46
1:N:256:ARG:CG	1:P:168:LEU:HB2	2.45	0.46
1:N:288:GLY:CA	1:N:403:TRP:HB3	2.45	0.46
1:O:378:GLY:O	1:m:309:VAL:CG2	2.64	0.46
1:R:309:VAL:CG2	1:U:378:GLY:O	2.64	0.46
1:R:328:GLU:CG	1:R:331:LYS:HG3	2.45	0.46
1:R:356:ILE:HD13	1:U:264:TRP:CE3	2.51	0.46
1:S:378:GLY:O	1:U:309:VAL:CG2	2.64	0.46
1:T:37:TRP:CD1	1:T:37:TRP:C	2.94	0.46
1:T:277:HIS:CD2	1:d:84:THR:OG1	2.52	0.46
1:T:326:ARG:HH11	1:T:331:LYS:CD	2.29	0.46
1:T:499:TYR:HB2	1:T:510:VAL:HG21	1.98	0.46
1:U:416:GLN:HG2	1:U:429:SER:HB2	1.98	0.46
1:V:356:ILE:HD13	1:X:264:TRP:CE3	2.51	0.46
1:V:416:GLN:HG2	1:V:429:SER:HB2	1.98	0.46
1:V:511:LEU:HD12	1:V:511:LEU:HA	1.73	0.46
1:W:398:ILE:HG21	1:Y:291:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:328:GLU:CG	1:X:331:LYS:HG3	2.45	0.46
1:Z:69:ILE:O	1:Z:88:GLY:N	2.47	0.46
1:Z:153:THR:HA	1:Z:225:LEU:O	2.16	0.46
1:b:416:GLN:HG2	1:b:429:SER:HB2	1.98	0.46
1:c:486:TYR:CE1	1:c:488:MET:HE3	2.51	0.46
1:d:129:ILE:HG23	1:d:465:PHE:CD1	2.51	0.46
1:d:378:GLY:O	1:l:309:VAL:CG2	2.64	0.46
1:f:314:SER:HB3	1:g:279:SER:HG	1.79	0.46
1:f:416:GLN:HG2	1:f:429:SER:HB2	1.98	0.46
1:f:419:PRO:HD2	1:g:402:ILE:HD13	1.96	0.46
1:g:37:TRP:CD1	1:g:37:TRP:C	2.94	0.46
1:g:69:ILE:O	1:g:88:GLY:N	2.47	0.46
1:h:416:GLN:HG2	1:h:429:SER:HB2	1.98	0.46
1:i:129:ILE:HG23	1:i:465:PHE:CD1	2.51	0.46
1:i:256:ARG:CG	1:j:168:LEU:HB2	2.45	0.46
1:i:486:TYR:CE1	1:i:488:MET:HE3	2.51	0.46
1:k:415:TRP:HA	1:k:434:CYS:H	1.80	0.46
1:k:416:GLN:HG2	1:k:429:SER:HB2	1.98	0.46
1:l:37:TRP:CD1	1:l:37:TRP:C	2.94	0.46
1:m:37:TRP:CD1	1:m:37:TRP:C	2.94	0.46
1:m:326:ARG:HH11	1:m:331:LYS:CD	2.29	0.46
1:n:129:ILE:HG23	1:n:465:PHE:CD1	2.51	0.46
1:o:264:TRP:CE3	1:p:356:ILE:HD13	2.51	0.46
1:p:486:TYR:CE1	1:p:488:MET:HE3	2.51	0.46
1:q:129:ILE:HG23	1:q:465:PHE:CD1	2.51	0.46
1:q:356:ILE:HD13	1:s:264:TRP:CE3	2.51	0.46
1:q:398:ILE:HG21	1:r:291:ILE:HD11	1.97	0.46
1:r:378:GLY:O	1:s:309:VAL:CG2	2.64	0.46
1:r:499:TYR:HB2	1:r:510:VAL:HG21	1.98	0.46
1:s:416:GLN:HG2	1:s:429:SER:HB2	1.98	0.46
1:v:416:GLN:HG2	1:v:429:SER:HB2	1.98	0.46
1:w:309:VAL:CG2	1:y:378:GLY:O	2.64	0.46
1:w:486:TYR:CE1	1:w:488:MET:HE3	2.51	0.46
1:w:499:TYR:HB2	1:w:510:VAL:HG21	1.98	0.46
1:y:235:TYR:CD2	1:y:440:PRO:HG3	2.50	0.46
1:z:153:THR:HA	1:z:225:LEU:O	2.16	0.46
1:z:326:ARG:HH11	1:z:331:LYS:CD	2.29	0.46
1:1:402:ILE:HD13	1:2:419:PRO:HD2	1.96	0.46
1:3:77:VAL:O	1:4:277:HIS:CE1	2.67	0.46
1:5:291:ILE:HD11	1:7:398:ILE:HG21	1.98	0.46
1:5:402:ILE:HD13	1:6:419:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:402:ILE:HD13	1:7:419:PRO:HD2	1.97	0.46
1:7:328:GLU:CG	1:7:331:LYS:HG3	2.45	0.46
1:A:458:TYR:CZ	1:B:183:ILE:HD12	2.51	0.46
1:B:309:VAL:CG2	1:L:378:GLY:O	2.64	0.46
1:C:69:ILE:O	1:C:88:GLY:N	2.47	0.46
1:C:283:GLN:HA	1:C:284:PRO:HD3	1.70	0.46
1:C:288:GLY:CA	1:C:403:TRP:HB3	2.45	0.46
1:C:484:ASN:ND2	1:L:502:MET:HE2	2.27	0.46
1:D:419:PRO:HD2	1:P:402:ILE:HD13	1.96	0.46
1:D:486:TYR:CE1	1:D:488:MET:HE3	2.51	0.46
1:E:309:VAL:CG2	1:F:378:GLY:O	2.64	0.46
1:E:314:SER:HB3	1:F:279:SER:HG	1.79	0.46
1:G:484:ASN:ND2	1:H:502:MET:HE2	2.27	0.46
1:I:115:ASN:O	1:I:527:LEU:HD11	2.16	0.46
1:I:416:GLN:HG2	1:I:429:SER:HB2	1.98	0.46
1:J:153:THR:HA	1:J:225:LEU:O	2.16	0.46
1:K:378:GLY:O	1:a:309:VAL:CG2	2.64	0.46
1:K:398:ILE:HG21	1:a:291:ILE:HD11	1.97	0.46
1:L:153:THR:HA	1:L:225:LEU:O	2.16	0.46
1:M:153:THR:HA	1:M:225:LEU:O	2.16	0.46
1:M:486:TYR:CE1	1:M:488:MET:HE3	2.51	0.46
1:N:129:ILE:HG23	1:N:465:PHE:CD1	2.51	0.46
1:N:398:ILE:HG21	1:P:291:ILE:HD11	1.97	0.46
1:N:416:GLN:HG2	1:N:429:SER:HB2	1.98	0.46
1:O:37:TRP:C	1:O:37:TRP:CD1	2.94	0.46
1:O:129:ILE:HG23	1:O:465:PHE:CD1	2.51	0.46
1:O:398:ILE:HG21	1:m:291:ILE:HD11	1.98	0.46
1:O:415:TRP:HA	1:O:434:CYS:H	1.80	0.46
1:R:398:ILE:HG21	1:S:291:ILE:HD11	1.97	0.46
1:R:504:ASN:OD1	1:R:508:GLN:N	2.46	0.46
1:S:37:TRP:C	1:S:37:TRP:CD1	2.94	0.46
1:S:327:ALA:N	1:S:377:ARG:HH21	2.11	0.46
1:T:309:VAL:CG2	1:l:378:GLY:O	2.64	0.46
1:T:416:GLN:HG2	1:T:429:SER:HB2	1.98	0.46
1:U:37:TRP:CD1	1:U:37:TRP:C	2.94	0.46
1:V:486:TYR:CE1	1:V:488:MET:HE3	2.51	0.46
1:V:499:TYR:HB2	1:V:510:VAL:HG21	1.97	0.46
1:W:416:GLN:HG2	1:W:429:SER:HB2	1.98	0.46
1:Y:114:ILE:HD13	1:Y:114:ILE:HA	1.75	0.46
1:Y:415:TRP:HA	1:Y:434:CYS:H	1.80	0.46
1:Z:486:TYR:CE1	1:Z:488:MET:HE3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:415:TRP:HA	1:d:434:CYS:H	1.80	0.46
1:e:486:TYR:CE1	1:e:488:MET:HE3	2.51	0.46
1:g:356:ILE:HD13	1:h:264:TRP:CE3	2.51	0.46
1:h:153:THR:HA	1:h:225:LEU:O	2.16	0.46
1:i:288:GLY:CA	1:i:403:TRP:HB3	2.45	0.46
1:k:486:TYR:CE1	1:k:488:MET:HE3	2.51	0.46
1:l:415:TRP:HA	1:l:434:CYS:H	1.80	0.46
1:n:415:TRP:HA	1:n:434:CYS:H	1.80	0.46
1:p:398:ILE:HG12	1:p:401:MET:HE3	1.96	0.46
1:p:416:GLN:HG2	1:p:429:SER:HB2	1.98	0.46
1:p:499:TYR:HB2	1:p:510:VAL:HG21	1.97	0.46
1:q:115:ASN:O	1:q:527:LEU:HD11	2.16	0.46
1:q:328:GLU:CG	1:q:331:LYS:HG3	2.45	0.46
1:r:327:ALA:N	1:r:377:ARG:HH21	2.11	0.46
1:r:328:GLU:CG	1:r:331:LYS:HG3	2.45	0.46
1:t:129:ILE:HG23	1:t:465:PHE:CD1	2.51	0.46
1:t:378:GLY:O	1:u:309:VAL:CG2	2.63	0.46
1:t:486:TYR:CE1	1:t:488:MET:HE3	2.51	0.46
1:u:115:ASN:O	1:u:527:LEU:HD11	2.16	0.46
1:u:416:GLN:HG2	1:u:429:SER:HB2	1.98	0.46
1:v:486:TYR:CE1	1:v:488:MET:HE3	2.51	0.46
1:w:77:VAL:O	1:y:277:HIS:CE1	2.68	0.46
1:w:416:GLN:HG2	1:w:429:SER:HB2	1.98	0.46
1:y:129:ILE:HG23	1:y:465:PHE:CD1	2.51	0.46
1:z:256:ARG:CG	1:1:168:LEU:HB2	2.45	0.46
1:1:288:GLY:CA	1:1:403:TRP:HB3	2.45	0.46
1:3:291:ILE:HD11	1:4:398:ILE:HG21	1.97	0.46
1:6:416:GLN:HG2	1:6:429:SER:HB2	1.98	0.46
1:6:486:TYR:CE1	1:6:488:MET:HE3	2.51	0.46
1:6:499:TYR:HB2	1:6:510:VAL:HG21	1.97	0.46
1:8:327:ALA:H	1:8:377:ARG:NH2	2.14	0.46
1:A:205:ASN:HB3	1:B:499:TYR:CE2	2.51	0.46
1:A:266:VAL:HG11	1:G:337:THR:HG22	1.97	0.46
1:A:279:SER:HG	1:G:314:SER:HB3	1.77	0.46
1:B:129:ILE:HG23	1:B:465:PHE:CD1	2.51	0.46
1:B:277:HIS:CD2	1:J:84:THR:OG1	2.52	0.46
1:B:288:GLY:CA	1:B:403:TRP:HB3	2.45	0.46
1:C:115:ASN:O	1:C:527:LEU:HD11	2.16	0.46
1:C:264:TRP:CE3	1:b:356:ILE:HD13	2.51	0.46
1:C:402:ILE:HD13	1:b:419:PRO:HD2	1.96	0.46
1:D:129:ILE:HG23	1:D:465:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:327:ALA:H	1:D:377:ARG:NH2	2.14	0.46
1:D:415:TRP:HA	1:D:434:CYS:H	1.80	0.46
1:E:77:VAL:O	1:F:277:HIS:CE1	2.68	0.46
1:E:264:TRP:CE3	1:Q:356:ILE:HD13	2.51	0.46
1:E:356:ILE:HD13	1:F:264:TRP:CE3	2.51	0.46
1:E:416:GLN:HG2	1:E:429:SER:HB2	1.98	0.46
1:G:129:ILE:HG23	1:G:465:PHE:CD1	2.51	0.46
1:G:486:TYR:CE1	1:G:488:MET:HE3	2.51	0.46
1:G:504:ASN:OD1	1:G:508:GLN:N	2.46	0.46
1:I:129:ILE:HG23	1:I:465:PHE:CD1	2.51	0.46
1:J:39:CYS:HB2	1:a:219:GLU:CA	2.34	0.46
1:J:264:TRP:CE3	1:L:356:ILE:HD13	2.51	0.46
1:M:235:TYR:CD2	1:M:440:PRO:HG3	2.50	0.46
1:N:153:THR:HA	1:N:225:LEU:O	2.16	0.46
1:N:327:ALA:H	1:N:377:ARG:NH2	2.14	0.46
1:N:378:GLY:O	1:P:309:VAL:CG2	2.64	0.46
1:N:486:TYR:CE1	1:N:488:MET:HE3	2.51	0.46
1:O:264:TRP:CE3	1:m:356:ILE:HD13	2.51	0.46
1:O:309:VAL:CG2	1:n:378:GLY:O	2.64	0.46
1:Q:415:TRP:HA	1:Q:434:CYS:H	1.80	0.46
1:R:115:ASN:O	1:R:527:LEU:HD11	2.16	0.46
1:R:264:TRP:CE3	1:S:356:ILE:HD13	2.51	0.46
1:S:328:GLU:CG	1:S:331:LYS:HG3	2.45	0.46
1:V:264:TRP:CE3	1:e:356:ILE:HD13	2.51	0.46
1:W:37:TRP:C	1:W:37:TRP:CD1	2.94	0.46
1:W:486:TYR:CE1	1:W:488:MET:HE3	2.51	0.46
1:W:499:TYR:HB2	1:W:510:VAL:HG21	1.97	0.46
1:X:356:ILE:HD13	1:e:264:TRP:CE3	2.51	0.46
1:a:416:GLN:HG2	1:a:429:SER:HB2	1.98	0.46
1:a:511:LEU:HD12	1:a:511:LEU:HA	1.73	0.46
1:d:37:TRP:CD1	1:d:37:TRP:C	2.94	0.46
1:e:327:ALA:N	1:e:377:ARG:HH21	2.11	0.46
1:f:356:ILE:HD13	1:g:264:TRP:CE3	2.51	0.46
1:g:115:ASN:O	1:g:527:LEU:HD11	2.16	0.46
1:g:288:GLY:CA	1:g:403:TRP:HB3	2.45	0.46
1:g:327:ALA:H	1:g:377:ARG:NH2	2.14	0.46
1:i:416:GLN:HG2	1:i:429:SER:HB2	1.98	0.46
1:k:129:ILE:HG23	1:k:465:PHE:CD1	2.51	0.46
1:k:327:ALA:H	1:k:377:ARG:NH2	2.14	0.46
1:l:129:ILE:HG23	1:l:465:PHE:CD1	2.51	0.46
1:m:504:ASN:OD1	1:m:508:GLN:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:37:TRP:C	1:n:37:TRP:CD1	2.94	0.46
1:o:328:GLU:CG	1:o:331:LYS:HG3	2.45	0.46
1:o:378:GLY:O	1:p:309:VAL:CG2	2.64	0.46
1:q:153:THR:HA	1:q:225:LEU:O	2.16	0.46
1:r:37:TRP:C	1:r:37:TRP:CD1	2.94	0.46
1:r:115:ASN:O	1:r:527:LEU:HD11	2.16	0.46
1:s:37:TRP:CD1	1:s:37:TRP:C	2.94	0.46
1:t:153:THR:HA	1:t:225:LEU:O	2.16	0.46
1:t:502:MET:HE2	1:5:484:ASN:ND2	2.28	0.46
1:u:129:ILE:HG23	1:u:465:PHE:CD1	2.51	0.46
1:u:264:TRP:CE3	1:v:356:ILE:HD13	2.51	0.46
1:w:168:LEU:HB2	1:y:256:ARG:CG	2.45	0.46
1:w:264:TRP:CE3	1:x:356:ILE:HD13	2.51	0.46
1:w:356:ILE:HD13	1:y:264:TRP:CE3	2.51	0.46
1:z:378:GLY:O	1:1:309:VAL:CG2	2.64	0.46
1:3:309:VAL:CG2	1:4:378:GLY:O	2.64	0.46
1:3:416:GLN:HG2	1:3:429:SER:HB2	1.98	0.46
1:5:115:ASN:O	1:5:527:LEU:HD11	2.16	0.46
1:6:37:TRP:CD1	1:6:37:TRP:C	2.94	0.46
1:6:398:ILE:HG21	1:7:291:ILE:HD11	1.97	0.46
1:6:504:ASN:OD1	1:6:508:GLN:N	2.46	0.46
1:8:486:TYR:CE1	1:8:488:MET:HE3	2.51	0.46
1:A:269:ARG:NH2	1:G:298:ALA:O	2.49	0.45
1:A:328:GLU:CG	1:A:331:LYS:HG3	2.45	0.45
1:B:345:GLY:HA3	1:B:348:GLU:OE2	2.17	0.45
1:C:327:ALA:H	1:C:377:ARG:NH2	2.14	0.45
1:D:277:HIS:CD2	1:N:84:THR:OG1	2.52	0.45
1:D:326:ARG:HH11	1:D:331:LYS:CD	2.29	0.45
1:E:129:ILE:HG23	1:E:465:PHE:CD1	2.51	0.45
1:E:168:LEU:HB2	1:F:256:ARG:CG	2.45	0.45
1:E:249:SER:HB2	1:E:373:GLU:HB2	1.98	0.45
1:G:153:THR:HA	1:G:225:LEU:O	2.16	0.45
1:G:249:SER:HB2	1:G:373:GLU:HB2	1.98	0.45
1:G:502:MET:HE2	1:H:484:ASN:ND2	2.27	0.45
1:H:115:ASN:O	1:H:527:LEU:HD11	2.17	0.45
1:H:345:GLY:HA3	1:H:348:GLU:OE2	2.17	0.45
1:K:64:ASP:OD1	1:K:446:LYS:NZ	2.38	0.45
1:K:486:TYR:CE1	1:K:488:MET:HE3	2.51	0.45
1:N:64:ASP:OD1	1:N:446:LYS:NZ	2.38	0.45
1:N:249:SER:HB2	1:N:373:GLU:HB2	1.98	0.45
1:O:115:ASN:O	1:O:527:LEU:HD11	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:153:THR:HA	1:Q:225:LEU:O	2.16	0.45
1:R:77:VAL:O	1:U:277:HIS:CE1	2.67	0.45
1:R:153:THR:HA	1:R:225:LEU:O	2.16	0.45
1:S:115:ASN:O	1:S:527:LEU:HD11	2.16	0.45
1:U:499:TYR:HB2	1:U:510:VAL:HG21	1.98	0.45
1:V:249:SER:HB2	1:V:373:GLU:HB2	1.98	0.45
1:V:309:VAL:CG2	1:X:378:GLY:O	2.64	0.45
1:V:398:ILE:HG12	1:V:401:MET:HE3	1.96	0.45
1:Y:345:GLY:HA3	1:Y:348:GLU:OE2	2.17	0.45
1:Y:499:TYR:HB2	1:Y:510:VAL:HG21	1.98	0.45
1:Z:83:LYS:HD3	1:Z:83:LYS:HA	1.78	0.45
1:Z:115:ASN:O	1:Z:527:LEU:HD11	2.16	0.45
1:Z:327:ALA:H	1:Z:377:ARG:NH2	2.14	0.45
1:b:345:GLY:HA3	1:b:348:GLU:OE2	2.17	0.45
1:c:94:ASN:HB3	1:c:186:LEU:HB3	1.99	0.45
1:c:264:TRP:CE3	1:o:356:ILE:HD13	2.51	0.45
1:c:356:ILE:HD13	1:p:264:TRP:CE3	2.51	0.45
1:d:345:GLY:HA3	1:d:348:GLU:OE2	2.17	0.45
1:f:345:GLY:HA3	1:f:348:GLU:OE2	2.17	0.45
1:g:484:ASN:ND2	1:z:502:MET:HE2	2.27	0.45
1:h:235:TYR:CD2	1:h:440:PRO:HG3	2.50	0.45
1:i:94:ASN:HB3	1:i:186:LEU:HB3	1.99	0.45
1:i:249:SER:HB2	1:i:373:GLU:HB2	1.98	0.45
1:i:378:GLY:O	1:j:309:VAL:CG2	2.64	0.45
1:j:34:THR:HG1	1:j:131:ASN:H	1.62	0.45
1:j:402:ILE:HD13	1:k:419:PRO:HD2	1.97	0.45
1:m:511:LEU:HD12	1:m:511:LEU:HA	1.73	0.45
1:n:345:GLY:HA3	1:n:348:GLU:OE2	2.17	0.45
1:o:37:TRP:C	1:o:37:TRP:CD1	2.94	0.45
1:p:235:TYR:CD2	1:p:440:PRO:HG3	2.50	0.45
1:p:249:SER:HB2	1:p:373:GLU:HB2	1.99	0.45
1:p:511:LEU:HD12	1:p:511:LEU:HA	1.73	0.45
1:q:77:VAL:O	1:s:277:HIS:CE1	2.67	0.45
1:q:264:TRP:CE3	1:r:356:ILE:HD13	2.51	0.45
1:t:183:ILE:HD12	1:6:458:TYR:OH	2.15	0.45
1:t:314:SER:HB3	1:v:279:SER:HG	1.77	0.45
1:t:504:ASN:OD1	1:t:508:GLN:N	2.46	0.45
1:u:378:GLY:O	1:v:309:VAL:CG2	2.64	0.45
1:v:345:GLY:HA3	1:v:348:GLU:OE2	2.17	0.45
1:w:249:SER:HB2	1:w:373:GLU:HB2	1.98	0.45
1:x:277:HIS:CD2	1:y:84:THR:OG1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:415:TRP:HA	1:x:434:CYS:H	1.80	0.45
1:y:345:GLY:HA3	1:y:348:GLU:OE2	2.17	0.45
1:y:511:LEU:HD12	1:y:511:LEU:HA	1.73	0.45
1:z:356:ILE:HD13	1:2:264:TRP:CE3	2.51	0.45
1:1:129:ILE:HG23	1:1:465:PHE:CD1	2.51	0.45
1:1:153:THR:HA	1:1:225:LEU:O	2.16	0.45
1:1:345:GLY:HA3	1:1:348:GLU:OE2	2.17	0.45
1:4:486:TYR:CE1	1:4:488:MET:HE3	2.51	0.45
1:5:129:ILE:HG23	1:5:465:PHE:CD1	2.51	0.45
1:5:345:GLY:HA3	1:5:348:GLU:OE2	2.17	0.45
1:7:415:TRP:HA	1:7:434:CYS:H	1.80	0.45
1:7:499:TYR:HB2	1:7:510:VAL:HG21	1.98	0.45
1:8:327:ALA:N	1:8:377:ARG:HH21	2.11	0.45
1:A:337:THR:HG22	1:I:266:VAL:HG11	1.98	0.45
1:A:345:GLY:HA3	1:A:348:GLU:OE2	2.17	0.45
1:B:153:THR:HA	1:B:225:LEU:O	2.16	0.45
1:B:168:LEU:HB2	1:L:256:ARG:CG	2.45	0.45
1:B:398:ILE:HG21	1:J:291:ILE:HD11	1.97	0.45
1:B:415:TRP:HA	1:B:434:CYS:H	1.80	0.45
1:B:416:GLN:HG2	1:B:429:SER:HB2	1.98	0.45
1:B:499:TYR:HB2	1:B:510:VAL:HG21	1.98	0.45
1:C:77:VAL:O	1:M:277:HIS:CE1	2.67	0.45
1:E:291:ILE:HD11	1:F:398:ILE:HG21	1.98	0.45
1:F:345:GLY:HA3	1:F:348:GLU:OE2	2.17	0.45
1:F:504:ASN:OD1	1:F:508:GLN:N	2.46	0.45
1:I:415:TRP:HA	1:I:434:CYS:H	1.80	0.45
1:K:291:ILE:HD11	1:8:398:ILE:HG21	1.98	0.45
1:K:345:GLY:HA3	1:K:348:GLU:OE2	2.17	0.45
1:L:69:ILE:O	1:L:88:GLY:N	2.47	0.45
1:L:486:TYR:CE1	1:L:488:MET:HE3	2.51	0.45
1:M:249:SER:HB2	1:M:373:GLU:HB2	1.98	0.45
1:N:511:LEU:HD12	1:N:511:LEU:HA	1.73	0.45
1:O:53:SER:HA	1:O:467:ILE:O	2.17	0.45
1:O:94:ASN:HB3	1:O:186:LEU:HB3	1.99	0.45
1:O:326:ARG:HH11	1:O:331:LYS:CD	2.29	0.45
1:R:34:THR:HG1	1:R:131:ASN:H	1.61	0.45
1:S:129:ILE:HG23	1:S:465:PHE:CD1	2.51	0.45
1:S:249:SER:O	1:S:373:GLU:CG	2.54	0.45
1:S:277:HIS:CD2	1:U:84:THR:OG1	2.52	0.45
1:T:504:ASN:OD1	1:T:508:GLN:N	2.46	0.45
1:T:511:LEU:HD12	1:T:511:LEU:HA	1.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:235:TYR:CD2	1:V:440:PRO:HG3	2.50	0.45
1:W:153:THR:HA	1:W:225:LEU:O	2.16	0.45
1:X:37:TRP:C	1:X:37:TRP:CD1	2.94	0.45
1:Z:398:ILE:HG21	1:4:291:ILE:HD11	1.98	0.45
1:a:37:TRP:CD1	1:a:37:TRP:C	2.94	0.45
1:b:486:TYR:CE1	1:b:488:MET:HE3	2.51	0.45
1:c:218:ASP:O	1:s:37:TRP:NE1	2.42	0.45
1:d:277:HIS:CD2	1:l:84:THR:OG1	2.53	0.45
1:d:326:ARG:HH11	1:d:331:LYS:CD	2.29	0.45
1:e:94:ASN:HB3	1:e:186:LEU:HB3	1.99	0.45
1:f:486:TYR:CE1	1:f:488:MET:HE3	2.51	0.45
1:g:283:GLN:HA	1:g:284:PRO:HD3	1.69	0.45
1:h:249:SER:HB2	1:h:373:GLU:HB2	1.98	0.45
1:i:327:ALA:H	1:i:377:ARG:NH2	2.14	0.45
1:i:398:ILE:HG21	1:j:291:ILE:HD11	1.98	0.45
1:l:53:SER:HA	1:l:467:ILE:O	2.17	0.45
1:l:94:ASN:HB3	1:l:186:LEU:HB3	1.99	0.45
1:l:115:ASN:O	1:l:527:LEU:HD11	2.16	0.45
1:m:120:TRP:CZ3	1:m:246:ASN:HB2	2.52	0.45
1:m:277:HIS:CD2	1:n:84:THR:OG1	2.53	0.45
1:m:398:ILE:HG21	1:n:291:ILE:HD11	1.97	0.45
1:n:326:ARG:HH11	1:n:331:LYS:CD	2.29	0.45
1:s:486:TYR:CE1	1:s:488:MET:HE3	2.51	0.45
1:s:499:TYR:HB2	1:s:510:VAL:HG21	1.98	0.45
1:t:115:ASN:O	1:t:527:LEU:HD11	2.16	0.45
1:t:219:GLU:CA	1:y:39:CYS:HB2	2.34	0.45
1:t:249:SER:HB2	1:t:373:GLU:HB2	1.99	0.45
1:t:458:TYR:CZ	1:y:183:ILE:HD12	2.51	0.45
1:t:499:TYR:HB2	1:t:510:VAL:HG21	1.98	0.45
1:u:345:GLY:HA3	1:u:348:GLU:OE2	2.17	0.45
1:v:83:LYS:HD3	1:v:83:LYS:HA	1.78	0.45
1:v:328:GLU:CG	1:v:331:LYS:HG3	2.45	0.45
1:w:129:ILE:HG23	1:w:465:PHE:CD1	2.51	0.45
1:x:153:THR:HA	1:x:225:LEU:O	2.16	0.45
1:x:398:ILE:HG21	1:y:291:ILE:HD11	1.97	0.45
1:x:499:TYR:HB2	1:x:510:VAL:HG21	1.98	0.45
1:y:504:ASN:OD1	1:y:508:GLN:N	2.46	0.45
1:z:53:SER:HA	1:z:467:ILE:O	2.17	0.45
1:z:129:ILE:HG23	1:z:465:PHE:CD1	2.51	0.45
1:1:398:ILE:HG21	1:2:291:ILE:HD11	1.97	0.45
1:1:415:TRP:HA	1:1:434:CYS:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:416:GLN:HG2	1:1:429:SER:HB2	1.98	0.45
1:1:499:TYR:HB2	1:1:510:VAL:HG21	1.98	0.45
1:4:64:ASP:OD1	1:4:446:LYS:NZ	2.38	0.45
1:4:115:ASN:O	1:4:527:LEU:HD11	2.16	0.45
1:4:283:GLN:HA	1:4:284:PRO:HD3	1.70	0.45
1:4:345:GLY:HA3	1:4:348:GLU:OE2	2.17	0.45
1:5:266:VAL:HG11	1:6:337:THR:HG22	1.99	0.45
1:5:309:VAL:CG2	1:7:378:GLY:O	2.64	0.45
1:6:94:ASN:HB3	1:6:186:LEU:HB3	1.99	0.45
1:7:345:GLY:HA3	1:7:348:GLU:OE2	2.17	0.45
1:8:115:ASN:O	1:8:527:LEU:HD11	2.17	0.45
1:A:168:LEU:HB2	1:I:256:ARG:CG	2.46	0.45
1:B:94:ASN:HB3	1:B:186:LEU:HB3	1.99	0.45
1:B:326:ARG:HH11	1:B:331:LYS:CD	2.29	0.45
1:C:53:SER:HA	1:C:467:ILE:O	2.17	0.45
1:C:416:GLN:HG2	1:C:429:SER:HB2	1.98	0.45
1:D:153:THR:HA	1:D:225:LEU:O	2.16	0.45
1:D:219:GLU:CA	1:E:39:CYS:HB2	2.34	0.45
1:F:291:ILE:HD11	1:Q:398:ILE:HG21	1.97	0.45
1:F:356:ILE:HD13	1:Q:264:TRP:CE3	2.51	0.45
1:F:511:LEU:HD12	1:F:511:LEU:HA	1.73	0.45
1:G:115:ASN:O	1:G:527:LEU:HD11	2.17	0.45
1:G:264:TRP:CE3	1:I:356:ILE:HD13	2.51	0.45
1:G:499:TYR:HB2	1:G:510:VAL:HG21	1.97	0.45
1:H:129:ILE:HG23	1:H:465:PHE:CD1	2.51	0.45
1:H:309:VAL:CG2	1:Y:378:GLY:O	2.64	0.45
1:I:345:GLY:HA3	1:I:348:GLU:OE2	2.17	0.45
1:K:153:THR:HA	1:K:225:LEU:O	2.16	0.45
1:L:129:ILE:HG23	1:L:465:PHE:CD1	2.51	0.45
1:M:69:ILE:O	1:M:88:GLY:N	2.47	0.45
1:N:94:ASN:HB3	1:N:186:LEU:HB3	1.99	0.45
1:N:266:VAL:HG11	1:P:337:THR:HG22	1.99	0.45
1:O:114:ILE:HD13	1:O:114:ILE:HA	1.75	0.45
1:O:219:GLU:CA	1:d:39:CYS:HB2	2.34	0.45
1:P:345:GLY:HA3	1:P:348:GLU:OE2	2.17	0.45
1:Q:129:ILE:HG23	1:Q:465:PHE:CD1	2.51	0.45
1:Q:499:TYR:HB2	1:Q:510:VAL:HG21	1.98	0.45
1:T:53:SER:HA	1:T:467:ILE:O	2.17	0.45
1:T:120:TRP:CZ3	1:T:246:ASN:HB2	2.52	0.45
1:T:264:TRP:CE3	1:d:356:ILE:HD13	2.51	0.45
1:T:398:ILE:HG21	1:d:291:ILE:HD11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:326:ARG:HH11	1:U:331:LYS:CD	2.29	0.45
1:U:486:TYR:CE1	1:U:488:MET:HE3	2.51	0.45
1:V:53:SER:HA	1:V:467:ILE:O	2.17	0.45
1:V:120:TRP:CZ3	1:V:246:ASN:HB2	2.52	0.45
1:V:277:HIS:CD2	1:e:84:THR:OG1	2.53	0.45
1:V:283:GLN:HA	1:V:284:PRO:HD3	1.69	0.45
1:W:94:ASN:HB3	1:W:186:LEU:HB3	1.99	0.45
1:W:120:TRP:CZ3	1:W:246:ASN:HB2	2.52	0.45
1:X:129:ILE:HG23	1:X:465:PHE:CD1	2.51	0.45
1:X:326:ARG:HH11	1:X:331:LYS:CD	2.29	0.45
1:Y:37:TRP:CD1	1:Y:37:TRP:C	2.94	0.45
1:b:94:ASN:HB3	1:b:186:LEU:HB3	1.99	0.45
1:c:327:ALA:N	1:c:377:ARG:HH21	2.11	0.45
1:g:53:SER:HA	1:g:467:ILE:O	2.17	0.45
1:g:77:VAL:O	1:h:277:HIS:CE1	2.67	0.45
1:h:37:TRP:CD1	1:h:37:TRP:C	2.94	0.45
1:i:153:THR:HA	1:i:225:LEU:O	2.16	0.45
1:i:266:VAL:HG11	1:j:337:THR:HG22	1.99	0.45
1:j:120:TRP:CZ3	1:j:246:ASN:HB2	2.52	0.45
1:j:345:GLY:HA3	1:j:348:GLU:OE2	2.17	0.45
1:k:326:ARG:HH11	1:k:331:LYS:CD	2.29	0.45
1:m:53:SER:HA	1:m:467:ILE:O	2.17	0.45
1:o:129:ILE:HG23	1:o:465:PHE:CD1	2.51	0.45
1:o:326:ARG:HH11	1:o:331:LYS:CD	2.29	0.45
1:p:53:SER:HA	1:p:467:ILE:O	2.17	0.45
1:p:120:TRP:CZ3	1:p:246:ASN:HB2	2.52	0.45
1:q:378:GLY:O	1:r:309:VAL:CG2	2.64	0.45
1:r:129:ILE:HG23	1:r:465:PHE:CD1	2.51	0.45
1:r:249:SER:O	1:r:373:GLU:CG	2.54	0.45
1:t:183:ILE:HD13	1:6:451:PRO:HB3	1.98	0.45
1:x:264:TRP:CE3	1:y:356:ILE:HD13	2.51	0.45
1:x:409:THR:HA	1:x:522:TRP:O	2.17	0.45
1:y:53:SER:HA	1:y:467:ILE:O	2.17	0.45
1:z:327:ALA:H	1:z:377:ARG:NH2	2.14	0.45
1:z:486:TYR:CE1	1:z:488:MET:HE3	2.51	0.45
1:1:277:HIS:CD2	1:2:84:THR:OG1	2.52	0.45
1:1:326:ARG:HH11	1:1:331:LYS:CD	2.29	0.45
1:1:511:LEU:HD12	1:1:511:LEU:HA	1.73	0.45
1:3:37:TRP:C	1:3:37:TRP:CD1	2.94	0.45
1:3:238:ASP:O	1:3:241:THR:OG1	2.21	0.45
1:8:37:TRP:CD1	1:8:37:TRP:C	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:53:SER:HA	1:B:467:ILE:O	2.17	0.45
1:B:502:MET:HE2	1:I:484:ASN:ND2	2.27	0.45
1:D:77:VAL:O	1:P:277:HIS:CE1	2.68	0.45
1:E:115:ASN:O	1:E:527:LEU:HD11	2.17	0.45
1:E:345:GLY:HA3	1:E:348:GLU:OE2	2.17	0.45
1:F:53:SER:HA	1:F:467:ILE:O	2.17	0.45
1:F:309:VAL:CG2	1:Q:378:GLY:O	2.64	0.45
1:G:53:SER:HA	1:G:467:ILE:O	2.17	0.45
1:H:266:VAL:HG11	1:W:337:THR:HG22	1.99	0.45
1:H:279:SER:HG	1:W:314:SER:HB3	1.79	0.45
1:H:398:ILE:HG21	1:W:291:ILE:HD11	1.97	0.45
1:K:115:ASN:O	1:K:527:LEU:HD11	2.17	0.45
1:K:326:ARG:HH11	1:K:331:LYS:CD	2.29	0.45
1:L:53:SER:HA	1:L:467:ILE:O	2.17	0.45
1:L:115:ASN:O	1:L:527:LEU:HD11	2.16	0.45
1:M:37:TRP:CD1	1:M:37:TRP:C	2.94	0.45
1:M:94:ASN:HB3	1:M:186:LEU:HB3	1.99	0.45
1:O:120:TRP:CZ3	1:O:246:ASN:HB2	2.52	0.45
1:O:356:ILE:HD13	1:n:264:TRP:CE3	2.51	0.45
1:P:120:TRP:CZ3	1:P:246:ASN:HB2	2.52	0.45
1:Q:409:THR:HA	1:Q:522:TRP:O	2.17	0.45
1:T:277:HIS:CE1	1:d:77:VAL:O	2.67	0.45
1:T:378:GLY:O	1:d:309:VAL:CG2	2.64	0.45
1:U:37:TRP:NE1	1:e:218:ASP:O	2.42	0.45
1:X:416:GLN:HG2	1:X:429:SER:HB2	1.98	0.45
1:Z:249:SER:HB2	1:Z:373:GLU:HB2	1.98	0.45
1:a:153:THR:HA	1:a:225:LEU:O	2.16	0.45
1:b:37:TRP:NE1	1:o:218:ASP:O	2.42	0.45
1:b:69:ILE:O	1:b:88:GLY:N	2.47	0.45
1:b:249:SER:HB2	1:b:373:GLU:HB2	1.99	0.45
1:c:53:SER:HA	1:c:467:ILE:O	2.17	0.45
1:e:53:SER:HA	1:e:467:ILE:O	2.17	0.45
1:f:69:ILE:O	1:f:88:GLY:N	2.47	0.45
1:f:94:ASN:HB3	1:f:186:LEU:HB3	1.99	0.45
1:h:120:TRP:CZ3	1:h:246:ASN:HB2	2.52	0.45
1:h:345:GLY:HA3	1:h:348:GLU:OE2	2.17	0.45
1:i:53:SER:HA	1:i:467:ILE:O	2.17	0.45
1:i:326:ARG:HH11	1:i:331:LYS:CD	2.29	0.45
1:j:416:GLN:HG2	1:j:429:SER:HB2	1.98	0.45
1:l:120:TRP:CZ3	1:l:246:ASN:HB2	2.52	0.45
1:l:326:ARG:HH11	1:l:331:LYS:CD	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:264:TRP:CE3	1:n:356:ILE:HD13	2.51	0.45
1:m:409:THR:HA	1:m:522:TRP:O	2.17	0.45
1:o:484:ASN:ND2	1:6:502:MET:HE2	2.27	0.45
1:q:34:THR:HG1	1:q:131:ASN:H	1.61	0.45
1:q:53:SER:HA	1:q:467:ILE:O	2.17	0.45
1:t:218:ASP:O	1:y:37:TRP:NE1	2.43	0.45
1:u:415:TRP:HA	1:u:434:CYS:H	1.80	0.45
1:w:53:SER:HA	1:w:467:ILE:O	2.17	0.45
1:w:115:ASN:O	1:w:527:LEU:HD11	2.17	0.45
1:w:291:ILE:HD11	1:y:398:ILE:HG21	1.98	0.45
1:x:129:ILE:HG23	1:x:465:PHE:CD1	2.51	0.45
1:z:249:SER:HB2	1:z:373:GLU:HB2	1.99	0.45
1:z:345:GLY:HA3	1:z:348:GLU:OE2	2.17	0.45
1:z:409:THR:HA	1:z:522:TRP:O	2.17	0.45
1:1:94:ASN:HB3	1:1:186:LEU:HB3	1.99	0.45
1:2:129:ILE:HG23	1:2:465:PHE:CD1	2.51	0.45
1:2:486:TYR:CE1	1:2:488:MET:HE3	2.51	0.45
1:3:69:ILE:O	1:3:88:GLY:N	2.47	0.45
1:3:286:LEU:HD11	1:3:398:ILE:HG13	1.95	0.45
1:4:153:THR:HA	1:4:225:LEU:O	2.16	0.45
1:5:398:ILE:HG21	1:6:291:ILE:HD11	1.97	0.45
1:6:115:ASN:O	1:6:527:LEU:HD11	2.17	0.45
1:6:120:TRP:CZ3	1:6:246:ASN:HB2	2.52	0.45
1:7:37:TRP:CD1	1:7:37:TRP:C	2.94	0.45
1:D:37:TRP:CD1	1:D:37:TRP:C	2.94	0.45
1:D:309:VAL:CG2	1:P:378:GLY:O	2.64	0.45
1:E:53:SER:HA	1:E:467:ILE:O	2.17	0.45
1:F:326:ARG:HH11	1:F:331:LYS:CD	2.29	0.45
1:G:277:HIS:CE1	1:I:77:VAL:O	2.68	0.45
1:H:37:TRP:C	1:H:37:TRP:CD1	2.94	0.45
1:H:94:ASN:HB3	1:H:186:LEU:HB3	1.98	0.45
1:H:416:GLN:HG2	1:H:429:SER:HB2	1.98	0.45
1:J:53:SER:HA	1:J:467:ILE:O	2.17	0.45
1:J:129:ILE:HG23	1:J:465:PHE:CD1	2.51	0.45
1:J:486:TYR:CE1	1:J:488:MET:HE3	2.51	0.45
1:L:249:SER:HB2	1:L:373:GLU:HB2	1.99	0.45
1:L:327:ALA:H	1:L:377:ARG:NH2	2.14	0.45
1:L:345:GLY:HA3	1:L:348:GLU:OE2	2.17	0.45
1:L:409:THR:HA	1:L:522:TRP:O	2.17	0.45
1:L:499:TYR:HB2	1:L:510:VAL:HG21	1.98	0.45
1:M:337:THR:HG22	1:b:266:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:345:GLY:HA3	1:M:348:GLU:OE2	2.17	0.45
1:N:53:SER:HA	1:N:467:ILE:O	2.17	0.45
1:N:115:ASN:O	1:N:527:LEU:HD11	2.16	0.45
1:N:326:ARG:HH11	1:N:331:LYS:CD	2.29	0.45
1:O:84:THR:OG1	1:n:277:HIS:CD2	2.53	0.45
1:P:416:GLN:HG2	1:P:429:SER:HB2	1.98	0.45
1:Q:37:TRP:CD1	1:Q:37:TRP:C	2.94	0.45
1:R:53:SER:HA	1:R:467:ILE:O	2.17	0.45
1:R:261:TYR:CE1	1:S:352:LYS:HA	2.52	0.45
1:R:283:GLN:HA	1:R:284:PRO:HD3	1.70	0.45
1:R:337:THR:HG22	1:U:266:VAL:HG11	1.99	0.45
1:R:378:GLY:O	1:S:309:VAL:CG2	2.64	0.45
1:S:409:THR:HA	1:S:522:TRP:O	2.17	0.45
1:T:409:THR:HA	1:T:522:TRP:O	2.17	0.45
1:U:53:SER:HA	1:U:467:ILE:O	2.17	0.45
1:U:345:GLY:HA3	1:U:348:GLU:OE2	2.17	0.45
1:W:115:ASN:O	1:W:527:LEU:HD11	2.17	0.45
1:X:94:ASN:HB3	1:X:186:LEU:HB3	1.99	0.45
1:Y:69:ILE:O	1:Y:88:GLY:N	2.47	0.45
1:Y:120:TRP:CZ3	1:Y:246:ASN:HB2	2.52	0.45
1:Y:235:TYR:HH	1:Y:438:GLY:C	2.25	0.45
1:Z:37:TRP:CD1	1:Z:37:TRP:C	2.94	0.45
1:Z:327:ALA:N	1:Z:377:ARG:HH21	2.11	0.45
1:a:53:SER:HA	1:a:467:ILE:O	2.17	0.45
1:c:37:TRP:C	1:c:37:TRP:CD1	2.94	0.45
1:d:94:ASN:HB3	1:d:186:LEU:HB3	1.98	0.45
1:d:264:TRP:CE3	1:l:356:ILE:HD13	2.51	0.45
1:f:249:SER:HB2	1:f:373:GLU:HB2	1.99	0.45
1:f:266:VAL:HG11	1:h:337:THR:HG22	1.99	0.45
1:g:153:THR:HA	1:g:225:LEU:O	2.16	0.45
1:g:416:GLN:HG2	1:g:429:SER:HB2	1.98	0.45
1:h:53:SER:HA	1:h:467:ILE:O	2.17	0.45
1:h:94:ASN:HB3	1:h:186:LEU:HB3	1.99	0.45
1:k:37:TRP:CD1	1:k:37:TRP:C	2.94	0.45
1:k:53:SER:HA	1:k:467:ILE:O	2.17	0.45
1:k:153:THR:HA	1:k:225:LEU:O	2.16	0.45
1:m:115:ASN:O	1:m:527:LEU:HD11	2.16	0.45
1:m:277:HIS:CE1	1:n:77:VAL:O	2.67	0.45
1:o:94:ASN:HB3	1:o:186:LEU:HB3	1.99	0.45
1:q:261:TYR:CE1	1:r:352:LYS:HA	2.52	0.45
1:q:326:ARG:HH11	1:q:331:LYS:CD	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:337:THR:HG22	1:s:266:VAL:HG11	1.99	0.45
1:r:409:THR:HA	1:r:522:TRP:O	2.17	0.45
1:s:53:SER:HA	1:s:467:ILE:O	2.17	0.45
1:s:326:ARG:HH11	1:s:331:LYS:CD	2.29	0.45
1:t:53:SER:HA	1:t:467:ILE:O	2.17	0.45
1:t:398:ILE:HG21	1:u:291:ILE:HD11	1.98	0.45
1:t:419:PRO:HD3	1:v:285:TRP:CZ3	2.51	0.45
1:u:266:VAL:HG11	1:v:337:THR:HG22	1.99	0.45
1:w:345:GLY:HA3	1:w:348:GLU:OE2	2.17	0.45
1:w:409:THR:HA	1:w:522:TRP:O	2.17	0.45
1:x:37:TRP:CD1	1:x:37:TRP:C	2.94	0.45
1:x:378:GLY:O	1:y:309:VAL:CG2	2.64	0.45
1:z:416:GLN:HG2	1:z:429:SER:HB2	1.98	0.45
1:z:499:TYR:HB2	1:z:510:VAL:HG21	1.98	0.45
1:1:53:SER:HA	1:1:467:ILE:O	2.17	0.45
1:2:39:CYS:HB2	1:3:219:GLU:CA	2.34	0.45
1:2:249:SER:HB2	1:2:373:GLU:HB2	1.99	0.45
1:3:96:ILE:HD13	1:3:186:LEU:HG	1.99	0.45
1:3:129:ILE:HG23	1:3:465:PHE:CD1	2.51	0.45
1:4:326:ARG:HH11	1:4:331:LYS:CD	2.29	0.45
1:4:499:TYR:HB2	1:4:510:VAL:HG21	1.98	0.45
1:6:153:THR:HA	1:6:225:LEU:O	2.16	0.45
1:7:120:TRP:CZ3	1:7:246:ASN:HB2	2.52	0.45
1:B:77:VAL:O	1:L:277:HIS:CE1	2.67	0.45
1:B:261:TYR:CE1	1:J:352:LYS:HA	2.52	0.45
1:B:264:TRP:CE3	1:J:356:ILE:HD13	2.51	0.45
1:C:83:LYS:HD3	1:C:83:LYS:HA	1.78	0.45
1:C:153:THR:HA	1:C:225:LEU:O	2.16	0.45
1:C:261:TYR:CE1	1:b:352:LYS:HA	2.52	0.45
1:D:356:ILE:HD13	1:P:264:TRP:CE3	2.51	0.45
1:E:96:ILE:HD13	1:E:186:LEU:HG	1.99	0.45
1:E:409:THR:HA	1:E:522:TRP:O	2.17	0.45
1:F:352:LYS:HA	1:Q:261:TYR:CE1	2.52	0.45
1:H:153:THR:HA	1:H:225:LEU:O	2.16	0.45
1:H:337:THR:HG22	1:Y:266:VAL:HG11	1.99	0.45
1:H:352:LYS:HA	1:Y:261:TYR:CE1	2.52	0.45
1:I:37:TRP:CD1	1:I:37:TRP:C	2.94	0.45
1:I:504:ASN:OD1	1:I:508:GLN:N	2.46	0.45
1:J:120:TRP:CZ3	1:J:246:ASN:HB2	2.52	0.45
1:J:249:SER:HB2	1:J:373:GLU:HB2	1.99	0.45
1:K:53:SER:HA	1:K:467:ILE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:264:TRP:CE3	1:a:356:ILE:HD13	2.51	0.45
1:M:53:SER:HA	1:M:467:ILE:O	2.17	0.45
1:M:120:TRP:CZ3	1:M:246:ASN:HB2	2.52	0.45
1:M:129:ILE:HG23	1:M:465:PHE:CD1	2.51	0.45
1:N:409:THR:HA	1:N:522:TRP:O	2.17	0.45
1:O:77:VAL:O	1:n:277:HIS:CE1	2.67	0.45
1:O:328:GLU:CG	1:O:331:LYS:HG3	2.45	0.45
1:O:486:TYR:CE1	1:O:488:MET:HE3	2.51	0.45
1:Q:115:ASN:O	1:Q:527:LEU:HD11	2.16	0.45
1:R:326:ARG:HH11	1:R:331:LYS:CD	2.29	0.45
1:R:409:THR:HA	1:R:522:TRP:O	2.17	0.45
1:S:53:SER:HA	1:S:467:ILE:O	2.17	0.45
1:S:398:ILE:HG21	1:U:291:ILE:HD11	1.97	0.45
1:T:115:ASN:O	1:T:527:LEU:HD11	2.16	0.45
1:T:486:TYR:CE1	1:T:488:MET:HE3	2.51	0.45
1:V:261:TYR:CE1	1:e:352:LYS:HA	2.52	0.45
1:W:502:MET:HE2	1:X:484:ASN:ND2	2.27	0.45
1:X:53:SER:HA	1:X:467:ILE:O	2.17	0.45
1:X:218:ASP:O	1:f:37:TRP:NE1	2.42	0.45
1:X:352:LYS:HA	1:e:261:TYR:CE1	2.52	0.45
1:X:409:THR:HA	1:X:522:TRP:O	2.17	0.45
1:X:486:TYR:CE1	1:X:488:MET:HE3	2.51	0.45
1:Z:328:GLU:CG	1:Z:331:LYS:HG3	2.45	0.45
1:Z:345:GLY:HA3	1:Z:348:GLU:OE2	2.17	0.45
1:a:69:ILE:O	1:a:88:GLY:N	2.47	0.45
1:a:129:ILE:HG23	1:a:465:PHE:CD1	2.51	0.45
1:a:238:ASP:O	1:a:241:THR:OG1	2.21	0.45
1:a:264:TRP:CE3	1:8:356:ILE:HD13	2.51	0.45
1:c:261:TYR:CE1	1:o:352:LYS:HA	2.52	0.45
1:c:352:LYS:HA	1:p:261:TYR:CE1	2.52	0.45
1:d:53:SER:HA	1:d:467:ILE:O	2.17	0.45
1:d:115:ASN:O	1:d:527:LEU:HD11	2.16	0.45
1:d:120:TRP:CZ3	1:d:246:ASN:HB2	2.52	0.45
1:d:409:THR:HA	1:d:522:TRP:O	2.17	0.45
1:e:37:TRP:CD1	1:e:37:TRP:C	2.94	0.45
1:f:153:THR:HA	1:f:225:LEU:O	2.16	0.45
1:f:328:GLU:CG	1:f:331:LYS:HG3	2.45	0.45
1:f:352:LYS:HA	1:g:261:TYR:CE1	2.52	0.45
1:g:34:THR:HG1	1:g:131:ASN:H	1.59	0.45
1:h:69:ILE:O	1:h:88:GLY:N	2.47	0.45
1:i:84:THR:OG1	1:k:277:HIS:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:115:ASN:O	1:i:527:LEU:HD11	2.16	0.45
1:i:409:THR:HA	1:i:522:TRP:O	2.17	0.45
1:j:277:HIS:CE1	1:k:77:VAL:O	2.68	0.45
1:l:486:TYR:CE1	1:l:488:MET:HE3	2.51	0.45
1:l:499:TYR:HB2	1:l:510:VAL:HG21	1.98	0.45
1:m:378:GLY:O	1:n:309:VAL:CG2	2.64	0.45
1:n:409:THR:HA	1:n:522:TRP:O	2.17	0.45
1:o:53:SER:HA	1:o:467:ILE:O	2.17	0.45
1:o:409:THR:HA	1:o:522:TRP:O	2.17	0.45
1:o:416:GLN:HG2	1:o:429:SER:HB2	1.98	0.45
1:o:486:TYR:CE1	1:o:488:MET:HE3	2.51	0.45
1:q:484:ASN:ND2	1:x:502:MET:HE2	2.27	0.45
1:r:398:ILE:HG21	1:s:291:ILE:HD11	1.97	0.45
1:t:269:ARG:NH2	1:u:298:ALA:O	2.49	0.45
1:w:96:ILE:HD13	1:w:186:LEU:HG	1.99	0.45
1:w:120:TRP:CZ3	1:w:246:ASN:HB2	2.52	0.45
1:x:261:TYR:CE1	1:y:352:LYS:HA	2.52	0.45
1:y:486:TYR:CE1	1:y:488:MET:HE3	2.51	0.45
1:z:115:ASN:O	1:z:527:LEU:HD11	2.16	0.45
1:1:249:SER:O	1:1:373:GLU:CG	2.54	0.45
1:1:261:TYR:CE1	1:2:352:LYS:HA	2.52	0.45
1:2:120:TRP:CZ3	1:2:246:ASN:HB2	2.52	0.45
1:2:345:GLY:HA3	1:2:348:GLU:OE2	2.17	0.45
1:3:53:SER:HA	1:3:467:ILE:O	2.17	0.45
1:3:153:THR:HA	1:3:225:LEU:O	2.16	0.45
1:4:327:ALA:H	1:4:377:ARG:NH2	2.14	0.45
1:5:37:TRP:C	1:5:37:TRP:CD1	2.94	0.45
1:5:153:THR:HA	1:5:225:LEU:O	2.16	0.45
1:5:337:THR:HG22	1:7:266:VAL:HG11	1.99	0.45
1:5:352:LYS:HA	1:7:261:TYR:CE1	2.52	0.45
1:5:416:GLN:HG2	1:5:429:SER:HB2	1.98	0.45
1:8:83:LYS:HA	1:8:83:LYS:HD3	1.78	0.45
1:8:345:GLY:HA3	1:8:348:GLU:OE2	2.17	0.45
1:A:183:ILE:HD13	1:E:451:PRO:HB3	1.99	0.45
1:A:352:LYS:HA	1:I:261:TYR:CE1	2.51	0.45
1:A:356:ILE:HD13	1:I:264:TRP:CE3	2.52	0.45
1:B:266:VAL:HG11	1:J:337:THR:HG22	1.99	0.45
1:C:34:THR:HG1	1:C:131:ASN:H	1.59	0.45
1:D:53:SER:HA	1:D:467:ILE:O	2.17	0.45
1:D:94:ASN:HB3	1:D:186:LEU:HB3	1.99	0.45
1:D:114:ILE:HG23	1:D:526:ASN:ND2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:120:TRP:CZ3	1:E:246:ASN:HB2	2.52	0.45
1:E:327:ALA:H	1:E:377:ARG:NH2	2.14	0.45
1:F:69:ILE:O	1:F:88:GLY:N	2.47	0.45
1:F:94:ASN:HB3	1:F:186:LEU:HB3	1.99	0.45
1:I:94:ASN:HB3	1:I:186:LEU:HB3	1.99	0.45
1:I:326:ARG:HH11	1:I:331:LYS:CD	2.29	0.45
1:J:261:TYR:CE1	1:L:352:LYS:HA	2.52	0.45
1:J:345:GLY:HA3	1:J:348:GLU:OE2	2.17	0.45
1:J:378:GLY:O	1:L:309:VAL:CG2	2.64	0.45
1:K:120:TRP:CZ3	1:K:246:ASN:HB2	2.52	0.45
1:K:129:ILE:HG23	1:K:465:PHE:CD1	2.51	0.45
1:K:499:TYR:HB2	1:K:510:VAL:HG21	1.98	0.45
1:L:416:GLN:HG2	1:L:429:SER:HB2	1.98	0.45
1:O:337:THR:HG22	1:n:266:VAL:HG11	1.99	0.45
1:O:409:THR:HA	1:O:522:TRP:O	2.17	0.45
1:O:499:TYR:HB2	1:O:510:VAL:HG21	1.98	0.45
1:P:486:TYR:CE1	1:P:488:MET:HE3	2.51	0.45
1:Q:345:GLY:HA3	1:Q:348:GLU:OE2	2.17	0.45
1:Q:416:GLN:HG2	1:Q:429:SER:HB2	1.98	0.45
1:Q:502:MET:HE2	1:R:484:ASN:ND2	2.27	0.45
1:R:486:TYR:CE1	1:R:488:MET:HE3	2.51	0.45
1:S:264:TRP:CE3	1:U:356:ILE:HD13	2.51	0.45
1:T:352:LYS:HA	1:l:261:TYR:CE1	2.52	0.45
1:V:115:ASN:O	1:V:527:LEU:HD11	2.16	0.45
1:V:352:LYS:HA	1:X:261:TYR:CE1	2.52	0.45
1:W:264:TRP:CE3	1:Y:356:ILE:HD13	2.51	0.45
1:X:96:ILE:HD13	1:X:186:LEU:HG	1.99	0.45
1:Y:153:THR:HA	1:Y:225:LEU:O	2.16	0.45
1:Z:356:ILE:HD13	1:3:264:TRP:CE3	2.51	0.45
1:Z:409:THR:HA	1:Z:522:TRP:O	2.17	0.45
1:a:96:ILE:HD13	1:a:186:LEU:HG	1.99	0.45
1:a:261:TYR:CE1	1:8:352:LYS:HA	2.52	0.45
1:a:499:TYR:HB2	1:a:510:VAL:HG21	1.98	0.45
1:b:96:ILE:HD13	1:b:186:LEU:HG	1.99	0.45
1:b:249:SER:O	1:b:373:GLU:CG	2.54	0.45
1:c:309:VAL:CG2	1:p:378:GLY:O	2.64	0.45
1:d:96:ILE:HD13	1:d:186:LEU:HG	1.99	0.45
1:d:266:VAL:HG11	1:l:337:THR:HG22	1.99	0.45
1:f:96:ILE:HD13	1:f:186:LEU:HG	1.99	0.45
1:f:337:THR:HG22	1:g:266:VAL:HG11	1.99	0.45
1:f:499:TYR:HB2	1:f:510:VAL:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:291:ILE:HD11	1:h:398:ILE:HG21	1.97	0.45
1:h:115:ASN:O	1:h:527:LEU:HD11	2.16	0.45
1:h:129:ILE:HG23	1:h:465:PHE:CD1	2.51	0.45
1:i:356:ILE:HD13	1:k:264:TRP:CE3	2.51	0.45
1:j:378:GLY:O	1:k:309:VAL:CG2	2.64	0.45
1:k:94:ASN:HB3	1:k:186:LEU:HB3	1.99	0.45
1:k:219:GLU:CA	1:w:39:CYS:HB2	2.34	0.45
1:k:298:ALA:HB3	1:k:301:ALA:HB2	1.99	0.45
1:n:53:SER:HA	1:n:467:ILE:O	2.17	0.45
1:n:115:ASN:O	1:n:527:LEU:HD11	2.16	0.45
1:n:120:TRP:CZ3	1:n:246:ASN:HB2	2.52	0.45
1:n:249:SER:HB2	1:n:373:GLU:HB2	1.99	0.45
1:o:96:ILE:HD13	1:o:186:LEU:HG	1.99	0.45
1:q:409:THR:HA	1:q:522:TRP:O	2.17	0.45
1:q:416:GLN:HG2	1:q:429:SER:HB2	1.98	0.45
1:q:486:TYR:CE1	1:q:488:MET:HE3	2.51	0.45
1:r:53:SER:HA	1:r:467:ILE:O	2.17	0.45
1:r:277:HIS:CD2	1:s:84:THR:OG1	2.52	0.45
1:s:345:GLY:HA3	1:s:348:GLU:OE2	2.17	0.45
1:t:37:TRP:CD1	1:t:37:TRP:C	2.94	0.45
1:t:264:TRP:CE3	1:u:356:ILE:HD13	2.52	0.45
1:u:37:TRP:CD1	1:u:37:TRP:C	2.94	0.45
1:u:83:LYS:HD3	1:u:83:LYS:HA	1.78	0.45
1:u:484:ASN:ND2	1:1:502:MET:HE2	2.27	0.45
1:w:327:ALA:H	1:w:377:ARG:NH2	2.14	0.45
1:y:69:ILE:O	1:y:88:GLY:N	2.47	0.45
1:y:94:ASN:HB3	1:y:186:LEU:HB3	1.99	0.45
1:y:326:ARG:HH11	1:y:331:LYS:CD	2.29	0.45
1:z:37:TRP:C	1:z:37:TRP:CD1	2.94	0.45
1:z:77:VAL:O	1:2:277:HIS:CE1	2.67	0.45
1:z:277:HIS:CE1	1:1:77:VAL:O	2.67	0.45
1:z:309:VAL:CG2	1:2:378:GLY:O	2.64	0.45
1:z:352:LYS:HA	1:2:261:TYR:CE1	2.52	0.45
1:1:266:VAL:HG11	1:2:337:THR:HG22	1.99	0.45
1:2:53:SER:HA	1:2:467:ILE:O	2.17	0.45
1:2:83:LYS:HD3	1:2:83:LYS:HA	1.78	0.45
1:3:499:TYR:HB2	1:3:510:VAL:HG21	1.97	0.45
1:3:511:LEU:HD12	1:3:511:LEU:HA	1.73	0.45
1:4:53:SER:HA	1:4:467:ILE:O	2.17	0.45
1:5:94:ASN:HB3	1:5:186:LEU:HB3	1.99	0.45
1:5:356:ILE:HD13	1:7:264:TRP:CE3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:486:TYR:CE1	1:5:488:MET:HE3	2.51	0.45
1:7:69:ILE:O	1:7:88:GLY:N	2.47	0.45
1:8:249:SER:HB2	1:8:373:GLU:HB2	1.99	0.45
1:8:416:GLN:HG2	1:8:429:SER:HB2	1.98	0.45
1:A:83:LYS:HD3	1:A:83:LYS:HA	1.78	0.45
1:A:120:TRP:CZ3	1:A:246:ASN:HB2	2.52	0.45
1:A:272:ASP:HB2	1:G:339:TRP:CZ2	2.52	0.45
1:A:294:THR:HB	1:I:383:ALA:HB2	1.99	0.45
1:B:486:TYR:CE1	1:B:488:MET:HE3	2.51	0.45
1:B:511:LEU:HD12	1:B:511:LEU:HA	1.73	0.45
1:C:249:SER:HB2	1:C:373:GLU:HB2	1.98	0.45
1:C:266:VAL:HG11	1:b:337:THR:HG22	1.99	0.45
1:C:291:ILE:HD11	1:M:398:ILE:HG21	1.97	0.45
1:D:249:SER:HB2	1:D:373:GLU:HB2	1.98	0.45
1:D:264:TRP:CE3	1:N:356:ILE:HD13	2.51	0.45
1:D:378:GLY:O	1:N:309:VAL:CG2	2.64	0.45
1:D:414:ILE:HG21	1:D:471:MET:HE1	1.99	0.45
1:D:499:TYR:HB2	1:D:510:VAL:HG21	1.97	0.45
1:F:486:TYR:CE1	1:F:488:MET:HE3	2.51	0.45
1:G:37:TRP:C	1:G:37:TRP:CD1	2.94	0.45
1:H:114:ILE:HG23	1:H:526:ASN:ND2	2.32	0.45
1:H:249:SER:HB2	1:H:373:GLU:HB2	1.98	0.45
1:H:378:GLY:O	1:W:309:VAL:CG2	2.64	0.45
1:H:486:TYR:CE1	1:H:488:MET:HE3	2.51	0.45
1:I:76:LEU:C	1:I:303:LEU:HD13	2.42	0.45
1:I:298:ALA:HB3	1:I:301:ALA:HB2	1.99	0.45
1:J:249:SER:O	1:J:373:GLU:CG	2.54	0.45
1:J:277:HIS:CE1	1:L:77:VAL:O	2.67	0.45
1:K:266:VAL:HG11	1:a:337:THR:HG22	1.99	0.45
1:K:327:ALA:H	1:K:377:ARG:NH2	2.14	0.45
1:L:37:TRP:C	1:L:37:TRP:CD1	2.94	0.45
1:N:96:ILE:HD13	1:N:186:LEU:HG	1.99	0.45
1:O:261:TYR:CE1	1:m:352:LYS:HA	2.52	0.45
1:P:76:LEU:C	1:P:303:LEU:HD13	2.42	0.45
1:P:96:ILE:HD13	1:P:186:LEU:HG	1.99	0.45
1:Q:94:ASN:HB3	1:Q:186:LEU:HB3	1.99	0.45
1:Q:120:TRP:CZ3	1:Q:246:ASN:HB2	2.52	0.45
1:R:94:ASN:HB3	1:R:186:LEU:HB3	1.99	0.45
1:R:416:GLN:HG2	1:R:429:SER:HB2	1.98	0.45
1:S:96:ILE:HD13	1:S:186:LEU:HG	1.99	0.45
1:S:345:GLY:HA3	1:S:348:GLU:OE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:378:GLY:O	1:e:309:VAL:CG2	2.64	0.45
1:W:266:VAL:HG11	1:Y:337:THR:HG22	1.99	0.45
1:Y:249:SER:HB2	1:Y:373:GLU:HB2	1.98	0.45
1:Z:352:LYS:HA	1:3:261:TYR:CE1	2.52	0.45
1:b:115:ASN:O	1:b:527:LEU:HD11	2.16	0.45
1:b:120:TRP:CZ3	1:b:246:ASN:HB2	2.52	0.45
1:b:153:THR:HA	1:b:225:LEU:O	2.16	0.45
1:b:499:TYR:HB2	1:b:510:VAL:HG21	1.98	0.45
1:c:84:THR:OG1	1:p:277:HIS:CD2	2.53	0.45
1:c:114:ILE:HD13	1:c:114:ILE:HA	1.75	0.45
1:c:120:TRP:CZ3	1:c:246:ASN:HB2	2.52	0.45
1:d:249:SER:HB2	1:d:373:GLU:HB2	1.99	0.45
1:d:261:TYR:CE1	1:l:352:LYS:HA	2.52	0.45
1:d:277:HIS:CE1	1:l:77:VAL:O	2.67	0.45
1:e:114:ILE:HD13	1:e:114:ILE:HA	1.75	0.45
1:e:120:TRP:CZ3	1:e:246:ASN:HB2	2.52	0.45
1:e:499:TYR:HB2	1:e:510:VAL:HG21	1.98	0.45
1:g:249:SER:HB2	1:g:373:GLU:HB2	1.98	0.45
1:h:83:LYS:HD3	1:h:83:LYS:HA	1.78	0.45
1:j:76:LEU:C	1:j:303:LEU:HD13	2.42	0.45
1:j:96:ILE:HD13	1:j:186:LEU:HG	1.99	0.45
1:j:264:TRP:CE3	1:k:356:ILE:HD13	2.51	0.45
1:j:486:TYR:CE1	1:j:488:MET:HE3	2.51	0.45
1:k:114:ILE:HG23	1:k:526:ASN:ND2	2.32	0.45
1:k:414:ILE:HG21	1:k:471:MET:HE1	1.99	0.45
1:l:328:GLU:CG	1:l:331:LYS:HG3	2.45	0.45
1:m:486:TYR:CE1	1:m:488:MET:HE3	2.51	0.45
1:n:94:ASN:HB3	1:n:186:LEU:HB3	1.99	0.45
1:n:96:ILE:HD13	1:n:186:LEU:HG	1.99	0.45
1:o:261:TYR:CE1	1:p:352:LYS:HA	2.52	0.45
1:p:114:ILE:HG23	1:p:526:ASN:ND2	2.32	0.45
1:q:37:TRP:CD1	1:q:37:TRP:C	2.94	0.45
1:q:415:TRP:HA	1:q:434:CYS:H	1.80	0.45
1:r:264:TRP:CE3	1:s:356:ILE:HD13	2.51	0.45
1:r:345:GLY:HA3	1:r:348:GLU:OE2	2.17	0.45
1:r:486:TYR:CE1	1:r:488:MET:HE3	2.51	0.45
1:t:483:TRP:CH2	1:5:106:SER:HB3	2.52	0.45
1:u:94:ASN:HB3	1:u:186:LEU:HB3	1.99	0.45
1:u:298:ALA:HB3	1:u:301:ALA:HB2	1.99	0.45
1:u:326:ARG:HH11	1:u:331:LYS:CD	2.29	0.45
1:v:75:GLY:HA3	1:v:83:LYS:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:94:ASN:HB3	1:x:186:LEU:HB3	1.99	0.45
1:x:120:TRP:CZ3	1:x:246:ASN:HB2	2.52	0.45
1:z:75:GLY:HA3	1:z:83:LYS:HD2	1.99	0.45
1:1:264:TRP:CE3	1:2:356:ILE:HD13	2.51	0.45
1:3:356:ILE:HD13	1:4:264:TRP:CE3	2.51	0.45
1:4:120:TRP:CZ3	1:4:246:ASN:HB2	2.52	0.45
1:4:129:ILE:HG23	1:4:465:PHE:CD1	2.51	0.45
1:5:378:GLY:O	1:6:309:VAL:CG2	2.64	0.45
1:6:264:TRP:CE3	1:7:356:ILE:HD13	2.51	0.45
1:7:153:THR:HA	1:7:225:LEU:O	2.16	0.45
1:8:328:GLU:CG	1:8:331:LYS:HG3	2.45	0.45
1:8:409:THR:HA	1:8:522:TRP:O	2.17	0.45
1:A:53:SER:HA	1:A:467:ILE:O	2.17	0.45
1:D:298:ALA:HB3	1:D:301:ALA:HB2	1.99	0.45
1:D:352:LYS:HA	1:P:261:TYR:CE1	2.52	0.45
1:D:409:THR:HA	1:D:522:TRP:O	2.17	0.45
1:E:76:LEU:C	1:E:303:LEU:HD13	2.42	0.45
1:E:266:VAL:HG11	1:Q:337:THR:HG22	1.99	0.45
1:E:398:ILE:HG21	1:Q:291:ILE:HD11	1.97	0.45
1:F:409:THR:HA	1:F:522:TRP:O	2.17	0.45
1:G:378:GLY:O	1:I:309:VAL:CG2	2.64	0.45
1:H:326:ARG:HH11	1:H:331:LYS:CD	2.29	0.45
1:H:356:ILE:HD13	1:Y:264:TRP:CE3	2.51	0.45
1:H:409:THR:HA	1:H:522:TRP:O	2.17	0.45
1:I:34:THR:CG2	1:I:228:GLY:O	2.65	0.45
1:I:486:TYR:CE1	1:I:488:MET:HE3	2.51	0.45
1:K:261:TYR:CE1	1:a:352:LYS:HA	2.52	0.45
1:L:75:GLY:HA3	1:L:83:LYS:HD2	1.99	0.45
1:N:114:ILE:HG23	1:N:526:ASN:ND2	2.32	0.45
1:O:352:LYS:HA	1:n:261:TYR:CE1	2.52	0.45
1:Q:249:SER:HB2	1:Q:373:GLU:HB2	1.99	0.45
1:R:37:TRP:CD1	1:R:37:TRP:C	2.94	0.45
1:R:75:GLY:HA3	1:R:83:LYS:HD2	1.99	0.45
1:R:114:ILE:HG23	1:R:526:ASN:ND2	2.32	0.45
1:S:486:TYR:CE1	1:S:488:MET:HE3	2.51	0.45
1:T:96:ILE:HD13	1:T:186:LEU:HG	1.99	0.45
1:V:114:ILE:HG23	1:V:526:ASN:ND2	2.32	0.45
1:V:409:THR:HA	1:V:522:TRP:O	2.17	0.45
1:Z:261:TYR:CE1	1:4:352:LYS:HA	2.52	0.45
1:b:129:ILE:HG23	1:b:465:PHE:CD1	2.51	0.45
1:f:115:ASN:O	1:f:527:LEU:HD11	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:120:TRP:CZ3	1:f:246:ASN:HB2	2.52	0.45
1:f:137:LYS:HB3	1:f:137:LYS:HE2	1.73	0.45
1:i:345:GLY:HA3	1:i:348:GLU:OE2	2.17	0.45
1:j:261:TYR:CE1	1:k:352:LYS:HA	2.52	0.45
1:k:249:SER:HB2	1:k:373:GLU:HB2	1.99	0.45
1:l:409:THR:HA	1:l:522:TRP:O	2.17	0.45
1:l:414:ILE:HG21	1:l:471:MET:HE1	1.99	0.45
1:m:345:GLY:HA3	1:m:348:GLU:OE2	2.17	0.45
1:n:76:LEU:C	1:n:303:LEU:HD13	2.42	0.45
1:p:115:ASN:O	1:p:527:LEU:HD11	2.16	0.45
1:p:283:GLN:HA	1:p:284:PRO:HD3	1.69	0.45
1:p:409:THR:HA	1:p:522:TRP:O	2.17	0.45
1:q:75:GLY:HA3	1:q:83:LYS:HD2	1.99	0.45
1:q:94:ASN:HB3	1:q:186:LEU:HB3	1.99	0.45
1:q:114:ILE:HG23	1:q:526:ASN:ND2	2.32	0.45
1:q:352:LYS:HA	1:s:261:TYR:CE1	2.52	0.45
1:r:96:ILE:HD13	1:r:186:LEU:HG	1.99	0.45
1:u:486:TYR:CE1	1:u:488:MET:HE3	2.51	0.45
1:u:504:ASN:OD1	1:u:508:GLN:N	2.46	0.45
1:w:337:THR:HG22	1:y:266:VAL:HG11	1.99	0.45
1:x:115:ASN:O	1:x:527:LEU:HD11	2.17	0.45
1:x:249:SER:HB2	1:x:373:GLU:HB2	1.99	0.45
1:x:345:GLY:HA3	1:x:348:GLU:OE2	2.17	0.45
1:x:416:GLN:HG2	1:x:429:SER:HB2	1.98	0.45
1:y:249:SER:O	1:y:373:GLU:CG	2.54	0.45
1:1:115:ASN:O	1:1:527:LEU:HD11	2.16	0.45
1:1:249:SER:HB2	1:1:373:GLU:HB2	1.99	0.45
1:2:114:ILE:HD13	1:2:114:ILE:HA	1.75	0.45
1:3:352:LYS:HA	1:4:261:TYR:CE1	2.52	0.45
1:4:504:ASN:OD1	1:4:508:GLN:N	2.46	0.45
1:5:114:ILE:HG23	1:5:526:ASN:ND2	2.32	0.45
1:5:249:SER:HB2	1:5:373:GLU:HB2	1.99	0.45
1:6:76:LEU:C	1:6:303:LEU:HD13	2.42	0.45
1:7:249:SER:HB2	1:7:373:GLU:HB2	1.98	0.45
1:A:37:TRP:CD1	1:A:37:TRP:C	2.94	0.45
1:A:75:GLY:HA3	1:A:83:LYS:HD2	1.99	0.45
1:A:268:LEU:HD11	1:G:317:GLY:HA3	1.99	0.45
1:A:327:ALA:H	1:A:377:ARG:NH2	2.14	0.45
1:B:249:SER:O	1:B:373:GLU:CG	2.54	0.45
1:B:249:SER:HB2	1:B:373:GLU:HB2	1.98	0.45
1:B:414:ILE:HG21	1:B:471:MET:HE1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:298:ALA:HB3	1:C:301:ALA:HB2	1.99	0.45
1:E:298:ALA:HB3	1:E:301:ALA:HB2	1.99	0.45
1:E:337:THR:HG22	1:F:266:VAL:HG11	1.99	0.45
1:G:238:ASP:O	1:G:241:THR:OG1	2.21	0.45
1:H:53:SER:HA	1:H:467:ILE:O	2.17	0.45
1:H:120:TRP:CZ3	1:H:246:ASN:HB2	2.52	0.45
1:J:34:THR:CG2	1:J:228:GLY:O	2.65	0.45
1:J:83:LYS:HD3	1:J:83:LYS:HA	1.78	0.45
1:J:114:ILE:HD13	1:J:114:ILE:HA	1.75	0.45
1:J:409:THR:HA	1:J:522:TRP:O	2.17	0.45
1:J:504:ASN:OD1	1:J:508:GLN:N	2.46	0.45
1:K:352:LYS:HA	1:8:261:TYR:CE1	2.52	0.45
1:L:249:SER:O	1:L:373:GLU:CG	2.54	0.45
1:M:115:ASN:O	1:M:527:LEU:HD11	2.17	0.45
1:M:326:ARG:HH11	1:M:331:LYS:CD	2.29	0.45
1:M:356:ILE:HD13	1:b:264:TRP:CE3	2.51	0.45
1:N:328:GLU:CG	1:N:331:LYS:HG3	2.45	0.45
1:N:345:GLY:HA3	1:N:348:GLU:OE2	2.17	0.45
1:O:249:SER:HB2	1:O:373:GLU:HB2	1.98	0.45
1:O:414:ILE:HG21	1:O:471:MET:HE1	1.99	0.45
1:P:34:THR:CG2	1:P:228:GLY:O	2.65	0.45
1:P:69:ILE:O	1:P:88:GLY:N	2.47	0.45
1:P:75:GLY:HA3	1:P:83:LYS:HD2	1.99	0.45
1:P:94:ASN:HB3	1:P:186:LEU:HB3	1.98	0.45
1:R:96:ILE:HD13	1:R:186:LEU:HG	1.99	0.45
1:R:352:LYS:HA	1:U:261:TYR:CE1	2.52	0.45
1:R:414:ILE:HG21	1:R:471:MET:HE1	1.99	0.45
1:R:415:TRP:HA	1:R:434:CYS:H	1.80	0.45
1:S:416:GLN:HG2	1:S:429:SER:HB2	1.98	0.45
1:T:298:ALA:HB3	1:T:301:ALA:HB2	1.99	0.45
1:U:96:ILE:HD13	1:U:186:LEU:HG	1.99	0.45
1:V:96:ILE:HD13	1:V:186:LEU:HG	1.99	0.45
1:V:328:GLU:CG	1:V:331:LYS:HG3	2.45	0.45
1:W:114:ILE:HG23	1:W:526:ASN:ND2	2.32	0.45
1:W:261:TYR:CE1	1:Y:352:LYS:HA	2.52	0.45
1:W:327:ALA:H	1:W:377:ARG:NH2	2.14	0.45
1:X:69:ILE:O	1:X:88:GLY:N	2.47	0.45
1:Y:114:ILE:HG23	1:Y:526:ASN:ND2	2.32	0.45
1:Z:34:THR:CG2	1:Z:228:GLY:O	2.65	0.45
1:Z:53:SER:HA	1:Z:467:ILE:O	2.17	0.45
1:Z:120:TRP:CZ3	1:Z:246:ASN:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:114:ILE:HG23	1:a:526:ASN:ND2	2.32	0.45
1:b:34:THR:CG2	1:b:228:GLY:O	2.65	0.45
1:c:283:GLN:HA	1:c:284:PRO:HD3	1.69	0.45
1:c:499:TYR:HB2	1:c:510:VAL:HG21	1.98	0.45
1:d:76:LEU:C	1:d:303:LEU:HD13	2.42	0.45
1:e:114:ILE:HG23	1:e:526:ASN:ND2	2.32	0.45
1:f:129:ILE:HG23	1:f:465:PHE:CD1	2.51	0.45
1:i:114:ILE:HG23	1:i:526:ASN:ND2	2.32	0.45
1:j:34:THR:CG2	1:j:228:GLY:O	2.65	0.45
1:j:75:GLY:HA3	1:j:83:LYS:HD2	1.99	0.45
1:j:94:ASN:HB3	1:j:186:LEU:HB3	1.99	0.45
1:k:96:ILE:HD13	1:k:186:LEU:HG	1.99	0.45
1:k:409:THR:HA	1:k:522:TRP:O	2.17	0.45
1:l:219:GLU:CA	1:n:39:CYS:HB2	2.34	0.45
1:m:96:ILE:HD13	1:m:186:LEU:HG	1.99	0.45
1:o:34:THR:HG1	1:o:131:ASN:H	1.61	0.45
1:p:37:TRP:CD1	1:p:37:TRP:C	2.94	0.45
1:q:76:LEU:C	1:q:303:LEU:HD13	2.42	0.45
1:q:96:ILE:HD13	1:q:186:LEU:HG	1.99	0.45
1:q:414:ILE:HG21	1:q:471:MET:HE1	1.99	0.45
1:r:261:TYR:CE1	1:s:352:LYS:HA	2.52	0.45
1:t:352:LYS:HA	1:v:261:TYR:CE1	2.52	0.45
1:u:76:LEU:C	1:u:303:LEU:HD13	2.42	0.45
1:u:414:ILE:HG21	1:u:471:MET:HE1	1.99	0.45
1:v:37:TRP:C	1:v:37:TRP:CD1	2.94	0.45
1:v:120:TRP:CZ3	1:v:246:ASN:HB2	2.52	0.45
1:v:327:ALA:H	1:v:377:ARG:NH2	2.14	0.45
1:w:76:LEU:C	1:w:303:LEU:HD13	2.42	0.45
1:w:266:VAL:HG11	1:x:337:THR:HG22	1.99	0.45
1:w:277:HIS:CE1	1:x:77:VAL:O	2.68	0.45
1:y:409:THR:HA	1:y:522:TRP:O	2.17	0.45
1:1:34:THR:CG2	1:1:228:GLY:O	2.65	0.45
1:1:414:ILE:HG21	1:1:471:MET:HE1	1.99	0.45
1:2:34:THR:CG2	1:2:228:GLY:O	2.65	0.45
1:2:115:ASN:O	1:2:527:LEU:HD11	2.16	0.45
1:2:409:THR:HA	1:2:522:TRP:O	2.17	0.45
1:3:114:ILE:HG23	1:3:526:ASN:ND2	2.32	0.45
1:3:115:ASN:O	1:3:527:LEU:HD11	2.16	0.45
1:3:337:THR:HG22	1:4:266:VAL:HG11	1.99	0.45
1:5:53:SER:HA	1:5:467:ILE:O	2.17	0.45
1:5:279:SER:HG	1:6:314:SER:HB3	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:326:ARG:HH11	1:5:331:LYS:CD	2.29	0.45
1:6:266:VAL:HG11	1:7:337:THR:HG22	1.99	0.45
1:7:114:ILE:HG23	1:7:526:ASN:ND2	2.32	0.45
1:8:53:SER:HA	1:8:467:ILE:O	2.17	0.45
1:A:409:THR:HA	1:A:522:TRP:O	2.17	0.44
1:B:34:THR:CG2	1:B:228:GLY:O	2.66	0.44
1:B:115:ASN:O	1:B:527:LEU:HD11	2.16	0.44
1:C:75:GLY:HA3	1:C:83:LYS:HD2	1.99	0.44
1:C:84:THR:OG1	1:M:277:HIS:CD2	2.52	0.44
1:C:414:ILE:HG21	1:C:471:MET:HE1	1.99	0.44
1:D:261:TYR:CE1	1:N:352:LYS:HA	2.52	0.44
1:F:37:TRP:CD1	1:F:37:TRP:C	2.94	0.44
1:F:249:SER:O	1:F:373:GLU:CG	2.54	0.44
1:G:94:ASN:HB3	1:G:186:LEU:HB3	1.99	0.44
1:H:76:LEU:C	1:H:303:LEU:HD13	2.42	0.44
1:I:69:ILE:O	1:I:88:GLY:N	2.47	0.44
1:I:75:GLY:HA3	1:I:83:LYS:HD2	1.99	0.44
1:I:414:ILE:HG21	1:I:471:MET:HE1	1.99	0.44
1:J:75:GLY:HA3	1:J:83:LYS:HD2	1.99	0.44
1:J:76:LEU:C	1:J:303:LEU:HD13	2.42	0.44
1:K:504:ASN:OD1	1:K:508:GLN:N	2.46	0.44
1:M:75:GLY:HA3	1:M:83:LYS:HD2	1.99	0.44
1:M:414:ILE:HG21	1:M:471:MET:HE1	1.99	0.44
1:N:76:LEU:C	1:N:303:LEU:HD13	2.42	0.44
1:O:76:LEU:C	1:O:303:LEU:HD13	2.42	0.44
1:O:153:THR:HA	1:O:225:LEU:O	2.16	0.44
1:P:114:ILE:HG23	1:P:526:ASN:ND2	2.32	0.44
1:P:409:THR:HA	1:P:522:TRP:O	2.17	0.44
1:S:261:TYR:CE1	1:U:352:LYS:HA	2.52	0.44
1:T:75:GLY:HA3	1:T:83:LYS:HD2	1.99	0.44
1:T:249:SER:HB2	1:T:373:GLU:HB2	1.99	0.44
1:T:345:GLY:HA3	1:T:348:GLU:OE2	2.17	0.44
1:V:37:TRP:CD1	1:V:37:TRP:C	2.94	0.44
1:W:76:LEU:C	1:W:303:LEU:HD13	2.42	0.44
1:W:414:ILE:HG21	1:W:471:MET:HE1	1.99	0.44
1:Y:34:THR:CG2	1:Y:228:GLY:O	2.65	0.44
1:Z:416:GLN:HG2	1:Z:429:SER:HB2	1.98	0.44
1:a:115:ASN:O	1:a:527:LEU:HD11	2.16	0.44
1:a:277:HIS:CD2	1:8:84:THR:OG1	2.53	0.44
1:a:414:ILE:HG21	1:a:471:MET:HE1	1.99	0.44
1:b:53:SER:HA	1:b:467:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:114:ILE:HG23	1:c:526:ASN:ND2	2.32	0.44
1:c:337:THR:HG22	1:p:266:VAL:HG11	1.99	0.44
1:c:345:GLY:HA3	1:c:348:GLU:OE2	2.17	0.44
1:d:486:TYR:CE1	1:d:488:MET:HE3	2.51	0.44
1:f:34:THR:CG2	1:f:228:GLY:O	2.65	0.44
1:f:53:SER:HA	1:f:467:ILE:O	2.17	0.44
1:g:75:GLY:HA3	1:g:83:LYS:HD2	1.99	0.44
1:g:298:ALA:HB3	1:g:301:ALA:HB2	1.99	0.44
1:g:352:LYS:HA	1:h:261:TYR:CE1	2.52	0.44
1:h:75:GLY:HA3	1:h:83:LYS:HD2	1.99	0.44
1:h:326:ARG:HH11	1:h:331:LYS:CD	2.29	0.44
1:h:414:ILE:HG21	1:h:471:MET:HE1	1.99	0.44
1:h:499:TYR:HB2	1:h:510:VAL:HG21	1.98	0.44
1:i:76:LEU:C	1:i:303:LEU:HD13	2.42	0.44
1:i:309:VAL:CG2	1:k:378:GLY:O	2.64	0.44
1:j:114:ILE:HG23	1:j:526:ASN:ND2	2.32	0.44
1:j:409:THR:HA	1:j:522:TRP:O	2.17	0.44
1:k:499:TYR:HB2	1:k:510:VAL:HG21	1.98	0.44
1:l:76:LEU:C	1:l:303:LEU:HD13	2.42	0.44
1:l:416:GLN:HG2	1:l:429:SER:HB2	1.98	0.44
1:l:451:PRO:HB3	1:n:183:ILE:HD13	2.00	0.44
1:m:75:GLY:HA3	1:m:83:LYS:HD2	1.99	0.44
1:n:34:THR:CG2	1:n:228:GLY:O	2.65	0.44
1:n:486:TYR:CE1	1:n:488:MET:HE3	2.51	0.44
1:o:115:ASN:O	1:o:527:LEU:HD11	2.17	0.44
1:p:96:ILE:HD13	1:p:186:LEU:HG	1.99	0.44
1:q:249:SER:HB2	1:q:373:GLU:HB2	1.98	0.44
1:r:416:GLN:HG2	1:r:429:SER:HB2	1.98	0.44
1:s:96:ILE:HD13	1:s:186:LEU:HG	1.99	0.44
1:t:77:VAL:O	1:v:277:HIS:CE1	2.67	0.44
1:u:34:THR:CG2	1:u:228:GLY:O	2.65	0.44
1:u:75:GLY:HA3	1:u:83:LYS:HD2	1.99	0.44
1:v:53:SER:HA	1:v:467:ILE:O	2.17	0.44
1:v:115:ASN:O	1:v:527:LEU:HD11	2.16	0.44
1:v:249:SER:O	1:v:373:GLU:CG	2.54	0.44
1:w:298:ALA:HB3	1:w:301:ALA:HB2	1.99	0.44
1:w:398:ILE:HG21	1:x:291:ILE:HD11	1.97	0.44
1:y:37:TRP:C	1:y:37:TRP:CD1	2.94	0.44
1:y:96:ILE:HD13	1:y:186:LEU:HG	1.99	0.44
1:z:249:SER:O	1:z:373:GLU:CG	2.54	0.44
1:2:75:GLY:HA3	1:2:83:LYS:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:249:SER:O	1:4:373:GLU:CG	2.54	0.44
1:5:76:LEU:C	1:5:303:LEU:HD13	2.42	0.44
1:5:409:THR:HA	1:5:522:TRP:O	2.17	0.44
1:6:114:ILE:HG23	1:6:526:ASN:ND2	2.32	0.44
1:6:414:ILE:HG21	1:6:471:MET:HE1	1.99	0.44
1:7:34:THR:CG2	1:7:228:GLY:O	2.65	0.44
1:8:34:THR:CG2	1:8:228:GLY:O	2.65	0.44
1:8:120:TRP:CZ3	1:8:246:ASN:HB2	2.52	0.44
1:A:94:ASN:HB3	1:A:186:LEU:HB3	1.99	0.44
1:A:115:ASN:O	1:A:527:LEU:HD11	2.16	0.44
1:B:76:LEU:C	1:B:303:LEU:HD13	2.42	0.44
1:C:120:TRP:CZ3	1:C:246:ASN:HB2	2.52	0.44
1:C:352:LYS:HA	1:M:261:TYR:CE1	2.52	0.44
1:D:34:THR:CG2	1:D:228:GLY:O	2.65	0.44
1:D:96:ILE:HD13	1:D:186:LEU:HG	1.99	0.44
1:E:277:HIS:CE1	1:Q:77:VAL:O	2.68	0.44
1:F:96:ILE:HD13	1:F:186:LEU:HG	1.99	0.44
1:G:76:LEU:C	1:G:303:LEU:HD13	2.42	0.44
1:G:298:ALA:HB3	1:G:301:ALA:HB2	1.99	0.44
1:H:264:TRP:CE3	1:W:356:ILE:HD13	2.51	0.44
1:I:499:TYR:CE2	1:J:205:ASN:HB3	2.53	0.44
1:J:114:ILE:HG23	1:J:526:ASN:ND2	2.32	0.44
1:J:115:ASN:O	1:J:527:LEU:HD11	2.16	0.44
1:J:298:ALA:HB3	1:J:301:ALA:HB2	1.99	0.44
1:K:356:ILE:HD13	1:8:264:TRP:CE3	2.51	0.44
1:M:96:ILE:HD13	1:M:186:LEU:HG	1.99	0.44
1:M:499:TYR:HB2	1:M:510:VAL:HG21	1.98	0.44
1:R:76:LEU:C	1:R:303:LEU:HD13	2.42	0.44
1:S:120:TRP:CZ3	1:S:246:ASN:HB2	2.52	0.44
1:V:345:GLY:HA3	1:V:348:GLU:OE2	2.17	0.44
1:X:114:ILE:HG23	1:X:526:ASN:ND2	2.32	0.44
1:X:120:TRP:CZ3	1:X:246:ASN:HB2	2.52	0.44
1:Z:77:VAL:O	1:3:277:HIS:CE1	2.67	0.44
1:Z:84:THR:OG1	1:3:277:HIS:CD2	2.53	0.44
1:Z:264:TRP:CE3	1:4:356:ILE:HD13	2.51	0.44
1:c:75:GLY:HA3	1:c:83:LYS:HD2	1.99	0.44
1:c:115:ASN:O	1:c:527:LEU:HD11	2.16	0.44
1:c:398:ILE:HG21	1:o:291:ILE:HD11	1.98	0.44
1:d:34:THR:CG2	1:d:228:GLY:O	2.66	0.44
1:d:298:ALA:HB3	1:d:301:ALA:HB2	1.99	0.44
1:d:327:ALA:H	1:d:377:ARG:NH2	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:75:GLY:HA3	1:e:83:LYS:HD2	1.99	0.44
1:e:115:ASN:O	1:e:527:LEU:HD11	2.16	0.44
1:e:327:ALA:H	1:e:377:ARG:NH2	2.14	0.44
1:e:345:GLY:HA3	1:e:348:GLU:OE2	2.17	0.44
1:f:249:SER:O	1:f:373:GLU:CG	2.54	0.44
1:f:264:TRP:CE3	1:h:356:ILE:HD13	2.51	0.44
1:g:83:LYS:HD3	1:g:83:LYS:HA	1.78	0.44
1:g:120:TRP:CZ3	1:g:246:ASN:HB2	2.52	0.44
1:g:414:ILE:HG21	1:g:471:MET:HE1	1.99	0.44
1:h:249:SER:O	1:h:373:GLU:CG	2.54	0.44
1:i:96:ILE:HD13	1:i:186:LEU:HG	1.99	0.44
1:i:328:GLU:CG	1:i:331:LYS:HG3	2.45	0.44
1:j:69:ILE:O	1:j:88:GLY:N	2.47	0.44
1:j:115:ASN:O	1:j:527:LEU:HD11	2.17	0.44
1:j:266:VAL:HG11	1:k:337:THR:HG22	1.99	0.44
1:k:34:THR:CG2	1:k:228:GLY:O	2.65	0.44
1:k:345:GLY:HA3	1:k:348:GLU:OE2	2.17	0.44
1:l:153:THR:HA	1:l:225:LEU:O	2.16	0.44
1:l:249:SER:HB2	1:l:373:GLU:HB2	1.99	0.44
1:m:249:SER:HB2	1:m:373:GLU:HB2	1.98	0.44
1:m:298:ALA:HB3	1:m:301:ALA:HB2	1.99	0.44
1:n:327:ALA:H	1:n:377:ARG:NH2	2.14	0.44
1:o:69:ILE:O	1:o:88:GLY:N	2.47	0.44
1:o:75:GLY:HA3	1:o:83:LYS:HD2	1.99	0.44
1:o:120:TRP:CZ3	1:o:246:ASN:HB2	2.52	0.44
1:o:511:LEU:HD12	1:o:511:LEU:HA	1.73	0.44
1:p:249:SER:O	1:p:373:GLU:CG	2.54	0.44
1:q:283:GLN:HA	1:q:284:PRO:HD3	1.70	0.44
1:q:298:ALA:HB3	1:q:301:ALA:HB2	1.99	0.44
1:s:115:ASN:O	1:s:527:LEU:HD11	2.16	0.44
1:t:76:LEU:C	1:t:303:LEU:HD13	2.42	0.44
1:v:94:ASN:HB3	1:v:186:LEU:HB3	1.99	0.44
1:v:409:THR:HA	1:v:522:TRP:O	2.17	0.44
1:w:511:LEU:HD12	1:w:511:LEU:HA	1.73	0.44
1:1:76:LEU:C	1:1:303:LEU:HD13	2.42	0.44
1:1:486:TYR:CE1	1:1:488:MET:HE3	2.51	0.44
1:2:76:LEU:C	1:2:303:LEU:HD13	2.42	0.44
1:2:114:ILE:HG23	1:2:526:ASN:ND2	2.32	0.44
1:2:249:SER:O	1:2:373:GLU:CG	2.54	0.44
1:3:283:GLN:HA	1:3:284:PRO:HD3	1.69	0.44
1:3:414:ILE:HG21	1:3:471:MET:HE1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:409:THR:HA	1:4:522:TRP:O	2.17	0.44
1:5:96:ILE:HD13	1:5:186:LEU:HG	1.99	0.44
1:5:120:TRP:CZ3	1:5:246:ASN:HB2	2.52	0.44
1:6:261:TYR:CE1	1:7:352:LYS:HA	2.52	0.44
1:6:327:ALA:H	1:6:377:ARG:NH2	2.14	0.44
1:7:53:SER:HA	1:7:467:ILE:O	2.17	0.44
1:7:409:THR:HA	1:7:522:TRP:O	2.17	0.44
1:8:94:ASN:HB3	1:8:186:LEU:HB3	1.99	0.44
1:8:114:ILE:HG23	1:8:526:ASN:ND2	2.32	0.44
1:A:114:ILE:HG23	1:A:526:ASN:ND2	2.32	0.44
1:A:249:SER:HB2	1:A:373:GLU:HB2	1.98	0.44
1:B:75:GLY:HA3	1:B:83:LYS:HD2	1.99	0.44
1:B:120:TRP:CZ3	1:B:246:ASN:HB2	2.52	0.44
1:B:327:ALA:H	1:B:377:ARG:NH2	2.14	0.44
1:B:356:ILE:HD13	1:L:264:TRP:CE3	2.51	0.44
1:D:337:THR:HG22	1:P:266:VAL:HG11	1.99	0.44
1:F:75:GLY:HA3	1:F:83:LYS:HD2	1.99	0.44
1:G:114:ILE:HG23	1:G:526:ASN:ND2	2.32	0.44
1:H:96:ILE:HD13	1:H:186:LEU:HG	1.99	0.44
1:I:114:ILE:HG23	1:I:526:ASN:ND2	2.32	0.44
1:K:298:ALA:HB3	1:K:301:ALA:HB2	1.99	0.44
1:K:409:THR:HA	1:K:522:TRP:O	2.17	0.44
1:L:120:TRP:CZ3	1:L:246:ASN:HB2	2.52	0.44
1:M:34:THR:CG2	1:M:228:GLY:O	2.65	0.44
1:M:352:LYS:HA	1:b:261:TYR:CE1	2.52	0.44
1:N:264:TRP:CE3	1:P:356:ILE:HD13	2.51	0.44
1:O:416:GLN:HG2	1:O:429:SER:HB2	1.98	0.44
1:O:499:TYR:CE2	1:P:205:ASN:HB3	2.53	0.44
1:P:115:ASN:O	1:P:527:LEU:HD11	2.17	0.44
1:Q:414:ILE:HG21	1:Q:471:MET:HE1	1.99	0.44
1:R:249:SER:HB2	1:R:373:GLU:HB2	1.98	0.44
1:R:298:ALA:HB3	1:R:301:ALA:HB2	1.99	0.44
1:R:458:TYR:CZ	1:V:183:ILE:HD12	2.53	0.44
1:T:34:THR:CG2	1:T:228:GLY:O	2.65	0.44
1:U:115:ASN:O	1:U:527:LEU:HD11	2.16	0.44
1:U:327:ALA:H	1:U:377:ARG:NH2	2.14	0.44
1:V:205:ASN:HB3	1:W:499:TYR:CE2	2.53	0.44
1:V:266:VAL:HG11	1:e:337:THR:HG22	1.99	0.44
1:W:137:LYS:HE2	1:W:137:LYS:HB3	1.73	0.44
1:W:249:SER:HB2	1:W:373:GLU:HB2	1.98	0.44
1:W:345:GLY:HA3	1:W:348:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:409:THR:HA	1:W:522:TRP:O	2.17	0.44
1:X:75:GLY:HA3	1:X:83:LYS:HD2	1.99	0.44
1:X:115:ASN:O	1:X:527:LEU:HD11	2.17	0.44
1:X:291:ILE:HD11	1:e:398:ILE:HG21	1.98	0.44
1:Y:53:SER:HA	1:Y:467:ILE:O	2.17	0.44
1:Y:416:GLN:HG2	1:Y:429:SER:HB2	1.98	0.44
1:Z:94:ASN:HB3	1:Z:186:LEU:HB3	1.99	0.44
1:Z:114:ILE:HG23	1:Z:526:ASN:ND2	2.32	0.44
1:Z:266:VAL:HG11	1:4:337:THR:HG22	1.99	0.44
1:Z:414:ILE:HG21	1:Z:471:MET:HE1	1.99	0.44
1:a:409:THR:HA	1:a:522:TRP:O	2.17	0.44
1:b:414:ILE:HG21	1:b:471:MET:HE1	1.99	0.44
1:c:249:SER:HB2	1:c:373:GLU:HB2	1.99	0.44
1:c:327:ALA:H	1:c:377:ARG:NH2	2.14	0.44
1:d:114:ILE:HG23	1:d:526:ASN:ND2	2.32	0.44
1:d:414:ILE:HG21	1:d:471:MET:HE1	1.99	0.44
1:f:414:ILE:HG21	1:f:471:MET:HE1	1.99	0.44
1:g:84:THR:OG1	1:h:277:HIS:CD2	2.52	0.44
1:h:34:THR:CG2	1:h:228:GLY:O	2.65	0.44
1:h:96:ILE:HD13	1:h:186:LEU:HG	1.99	0.44
1:h:499:TYR:CE2	1:i:205:ASN:HB3	2.53	0.44
1:i:120:TRP:CZ3	1:i:246:ASN:HB2	2.52	0.44
1:i:352:LYS:HA	1:k:261:TYR:CE1	2.52	0.44
1:k:115:ASN:O	1:k:527:LEU:HD11	2.16	0.44
1:l:458:TYR:CZ	1:n:183:ILE:HD12	2.53	0.44
1:m:34:THR:CG2	1:m:228:GLY:O	2.65	0.44
1:m:327:ALA:H	1:m:377:ARG:NH2	2.14	0.44
1:m:327:ALA:N	1:m:377:ARG:HH21	2.11	0.44
1:n:114:ILE:HG23	1:n:526:ASN:ND2	2.32	0.44
1:n:414:ILE:HG21	1:n:471:MET:HE1	1.99	0.44
1:o:114:ILE:HG23	1:o:526:ASN:ND2	2.32	0.44
1:p:183:ILE:HD12	1:q:458:TYR:CZ	2.53	0.44
1:p:205:ASN:HB3	1:6:499:TYR:CE2	2.53	0.44
1:p:328:GLU:CG	1:p:331:LYS:HG3	2.45	0.44
1:p:345:GLY:HA3	1:p:348:GLU:OE2	2.17	0.44
1:r:94:ASN:HB3	1:r:186:LEU:HB3	1.99	0.44
1:r:120:TRP:CZ3	1:r:246:ASN:HB2	2.52	0.44
1:s:327:ALA:H	1:s:377:ARG:NH2	2.14	0.44
1:t:94:ASN:HB3	1:t:186:LEU:HB3	1.99	0.44
1:t:114:ILE:HG23	1:t:526:ASN:ND2	2.32	0.44
1:t:120:TRP:CZ3	1:t:246:ASN:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:221:PRO:HD3	1:y:40:ASN:HB3	1.99	0.44
1:t:298:ALA:HB3	1:t:301:ALA:HB2	1.99	0.44
1:u:114:ILE:HG23	1:u:526:ASN:ND2	2.32	0.44
1:u:261:TYR:CE1	1:v:352:LYS:HA	2.52	0.44
1:u:499:TYR:CE2	1:2:205:ASN:HB3	2.53	0.44
1:v:114:ILE:HG23	1:v:526:ASN:ND2	2.32	0.44
1:v:205:ASN:HB3	1:1:499:TYR:CE2	2.53	0.44
1:w:114:ILE:HG23	1:w:526:ASN:ND2	2.32	0.44
1:y:75:GLY:HA3	1:y:83:LYS:HD2	1.99	0.44
1:y:137:LYS:HE2	1:y:137:LYS:HB3	1.73	0.44
1:y:249:SER:HB2	1:y:373:GLU:HB2	1.98	0.44
1:z:120:TRP:CZ3	1:z:246:ASN:HB2	2.52	0.44
1:z:264:TRP:CE3	1:1:356:ILE:HD13	2.51	0.44
1:1:75:GLY:HA3	1:1:83:LYS:HD2	1.99	0.44
1:1:120:TRP:CZ3	1:1:246:ASN:HB2	2.52	0.44
1:2:504:ASN:OD1	1:2:508:GLN:N	2.46	0.44
1:3:76:LEU:C	1:3:303:LEU:HD13	2.42	0.44
1:3:249:SER:HB2	1:3:373:GLU:HB2	1.99	0.44
1:4:298:ALA:HB3	1:4:301:ALA:HB2	1.99	0.44
1:5:264:TRP:CE3	1:6:356:ILE:HD13	2.52	0.44
1:6:75:GLY:HA3	1:6:83:LYS:HD2	1.99	0.44
1:6:298:ALA:HB3	1:6:301:ALA:HB2	1.99	0.44
1:6:409:THR:HA	1:6:522:TRP:O	2.17	0.44
1:7:76:LEU:C	1:7:303:LEU:HD13	2.42	0.44
1:7:327:ALA:N	1:7:377:ARG:HH21	2.11	0.44
1:C:37:TRP:CZ3	1:C:55:HIS:CE1	3.06	0.44
1:D:345:GLY:HA3	1:D:348:GLU:OE2	2.17	0.44
1:E:114:ILE:HG23	1:E:526:ASN:ND2	2.32	0.44
1:E:511:LEU:HD12	1:E:511:LEU:HA	1.73	0.44
1:F:137:LYS:HB3	1:F:137:LYS:HE2	1.73	0.44
1:F:249:SER:HB2	1:F:373:GLU:HB2	1.99	0.44
1:G:261:TYR:CE1	1:I:352:LYS:HA	2.52	0.44
1:H:183:ILE:HD13	1:I:451:PRO:HB3	2.00	0.44
1:I:53:SER:HA	1:I:467:ILE:O	2.17	0.44
1:I:83:LYS:HD3	1:I:83:LYS:HA	1.78	0.44
1:I:249:SER:HB2	1:I:373:GLU:HB2	1.99	0.44
1:J:266:VAL:HG11	1:L:337:THR:HG22	1.99	0.44
1:J:499:TYR:CE2	1:a:205:ASN:HB3	2.53	0.44
1:M:409:THR:HA	1:M:522:TRP:O	2.17	0.44
1:N:120:TRP:CZ3	1:N:246:ASN:HB2	2.52	0.44
1:N:277:HIS:CE1	1:P:77:VAL:O	2.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:414:ILE:HG21	1:N:471:MET:HE1	1.99	0.44
1:O:451:PRO:HB3	1:d:183:ILE:HD13	2.00	0.44
1:P:53:SER:HA	1:P:467:ILE:O	2.17	0.44
1:R:34:THR:CG2	1:R:228:GLY:O	2.65	0.44
1:W:53:SER:HA	1:W:467:ILE:O	2.17	0.44
1:W:75:GLY:HA3	1:W:83:LYS:HD2	1.99	0.44
1:W:298:ALA:HB3	1:W:301:ALA:HB2	1.99	0.44
1:Y:94:ASN:HB3	1:Y:186:LEU:HB3	1.99	0.44
1:Y:409:THR:HA	1:Y:522:TRP:O	2.17	0.44
1:Y:486:TYR:CE1	1:Y:488:MET:HE3	2.51	0.44
1:a:37:TRP:CZ3	1:a:55:HIS:CE1	3.06	0.44
1:a:249:SER:HB2	1:a:373:GLU:HB2	1.99	0.44
1:a:277:HIS:CE1	1:8:77:VAL:O	2.67	0.44
1:b:76:LEU:C	1:b:303:LEU:HD13	2.42	0.44
1:b:327:ALA:H	1:b:377:ARG:NH2	2.14	0.44
1:c:77:VAL:O	1:p:277:HIS:CE1	2.67	0.44
1:e:183:ILE:HD12	1:h:458:TYR:CZ	2.53	0.44
1:e:249:SER:HB2	1:e:373:GLU:HB2	1.99	0.44
1:f:76:LEU:C	1:f:303:LEU:HD13	2.42	0.44
1:f:261:TYR:CE1	1:h:352:LYS:HA	2.52	0.44
1:f:327:ALA:H	1:f:377:ARG:NH2	2.14	0.44
1:g:37:TRP:CZ3	1:g:55:HIS:CE1	3.06	0.44
1:g:409:THR:HA	1:g:522:TRP:O	2.17	0.44
1:g:451:PRO:HB3	1:k:183:ILE:HD13	2.00	0.44
1:i:264:TRP:CE3	1:j:356:ILE:HD13	2.51	0.44
1:j:53:SER:HA	1:j:467:ILE:O	2.17	0.44
1:l:298:ALA:HB3	1:l:301:ALA:HB2	1.99	0.44
1:n:298:ALA:HB3	1:n:301:ALA:HB2	1.99	0.44
1:n:416:GLN:HG2	1:n:429:SER:HB2	1.98	0.44
1:o:249:SER:O	1:o:373:GLU:CG	2.54	0.44
1:q:34:THR:CG2	1:q:228:GLY:O	2.65	0.44
1:r:205:ASN:HB3	1:x:499:TYR:CE2	2.53	0.44
1:s:75:GLY:HA3	1:s:83:LYS:HD2	1.99	0.44
1:s:249:SER:HB2	1:s:373:GLU:HB2	1.99	0.44
1:u:69:ILE:O	1:u:88:GLY:N	2.47	0.44
1:u:451:PRO:HB3	1:5:183:ILE:HD13	2.00	0.44
1:v:249:SER:HB2	1:v:373:GLU:HB2	1.98	0.44
1:x:76:LEU:C	1:x:303:LEU:HD13	2.42	0.44
1:x:414:ILE:HG21	1:x:471:MET:HE1	1.99	0.44
1:y:120:TRP:CZ3	1:y:246:ASN:HB2	2.52	0.44
1:z:261:TYR:CE1	1:1:352:LYS:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:298:ALA:HB3	1:z:301:ALA:HB2	1.99	0.44
1:1:327:ALA:H	1:1:377:ARG:NH2	2.14	0.44
1:2:94:ASN:HB3	1:2:186:LEU:HB3	1.99	0.44
1:2:96:ILE:HD13	1:2:186:LEU:HG	1.99	0.44
1:2:298:ALA:HB3	1:2:301:ALA:HB2	1.99	0.44
1:2:499:TYR:CE2	1:3:205:ASN:HB3	2.53	0.44
1:3:37:TRP:CZ3	1:3:55:HIS:CE1	3.06	0.44
1:3:409:THR:HA	1:3:522:TRP:O	2.17	0.44
1:5:249:SER:O	1:5:373:GLU:CG	2.54	0.44
1:6:53:SER:HA	1:6:467:ILE:O	2.17	0.44
1:6:137:LYS:HB3	1:6:137:LYS:HE2	1.73	0.44
1:6:249:SER:HB2	1:6:373:GLU:HB2	1.99	0.44
1:6:277:HIS:CE1	1:7:77:VAL:O	2.68	0.44
1:7:94:ASN:HB3	1:7:186:LEU:HB3	1.99	0.44
1:8:414:ILE:HG21	1:8:471:MET:HE1	1.99	0.44
1:A:76:LEU:C	1:A:303:LEU:HD13	2.42	0.44
1:A:183:ILE:HD12	1:E:458:TYR:CE1	2.51	0.44
1:A:249:SER:O	1:A:373:GLU:CG	2.54	0.44
1:B:337:THR:HG22	1:L:266:VAL:HG11	1.99	0.44
1:B:352:LYS:HA	1:L:261:TYR:CE1	2.52	0.44
1:B:451:PRO:HB3	1:C:183:ILE:HD13	2.00	0.44
1:B:458:TYR:CZ	1:C:183:ILE:HD12	2.53	0.44
1:C:205:ASN:HB3	1:D:499:TYR:CE2	2.53	0.44
1:C:409:THR:HA	1:C:522:TRP:O	2.17	0.44
1:C:451:PRO:HB3	1:D:183:ILE:HD13	2.00	0.44
1:D:76:LEU:C	1:D:303:LEU:HD13	2.42	0.44
1:E:261:TYR:CE1	1:Q:352:LYS:HA	2.52	0.44
1:E:324:ILE:HB	1:E:376:ALA:O	2.18	0.44
1:G:119:LYS:HA	1:G:244:VAL:O	2.18	0.44
1:G:120:TRP:CZ3	1:G:246:ASN:HB2	2.52	0.44
1:G:279:SER:HG	1:I:314:SER:HB3	1.82	0.44
1:G:345:GLY:HA3	1:G:348:GLU:OE2	2.17	0.44
1:H:75:GLY:HA3	1:H:83:LYS:HD2	1.99	0.44
1:I:183:ILE:HD12	1:J:458:TYR:CZ	2.53	0.44
1:J:96:ILE:HD13	1:J:186:LEU:HG	1.99	0.44
1:J:183:ILE:HD13	1:a:451:PRO:HB3	2.00	0.44
1:K:114:ILE:HG23	1:K:526:ASN:ND2	2.32	0.44
1:K:249:SER:O	1:K:373:GLU:CG	2.54	0.44
1:L:298:ALA:HB3	1:L:301:ALA:HB2	1.99	0.44
1:M:83:LYS:HD3	1:M:83:LYS:HA	1.78	0.44
1:M:458:TYR:CZ	1:c:183:ILE:HD12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:34:THR:CG2	1:N:228:GLY:O	2.65	0.44
1:O:96:ILE:HD13	1:O:186:LEU:HG	1.99	0.44
1:O:266:VAL:HG11	1:m:337:THR:HG22	1.99	0.44
1:O:298:ALA:HB3	1:O:301:ALA:HB2	1.99	0.44
1:O:345:GLY:HA3	1:O:348:GLU:OE2	2.17	0.44
1:P:283:GLN:HA	1:P:284:PRO:HD3	1.70	0.44
1:P:298:ALA:HB3	1:P:301:ALA:HB2	1.99	0.44
1:Q:114:ILE:HG23	1:Q:526:ASN:ND2	2.32	0.44
1:Q:499:TYR:CE2	1:S:205:ASN:HB3	2.53	0.44
1:R:345:GLY:HA3	1:R:348:GLU:OE2	2.17	0.44
1:S:94:ASN:HB3	1:S:186:LEU:HB3	1.99	0.44
1:T:327:ALA:H	1:T:377:ARG:NH2	2.14	0.44
1:U:75:GLY:HA3	1:U:83:LYS:HD2	1.99	0.44
1:V:94:ASN:HB3	1:V:186:LEU:HB3	1.99	0.44
1:W:277:HIS:CE1	1:Y:77:VAL:O	2.67	0.44
1:X:249:SER:O	1:X:373:GLU:CG	2.54	0.44
1:Y:76:LEU:C	1:Y:303:LEU:HD13	2.42	0.44
1:Y:327:ALA:N	1:Y:377:ARG:HH21	2.11	0.44
1:Z:75:GLY:HA3	1:Z:83:LYS:HD2	1.99	0.44
1:Z:324:ILE:HB	1:Z:376:ALA:O	2.18	0.44
1:Z:337:THR:HG22	1:3:266:VAL:HG11	1.99	0.44
1:a:76:LEU:C	1:a:303:LEU:HD13	2.42	0.44
1:d:137:LYS:HB3	1:d:137:LYS:HE2	1.73	0.44
1:e:409:THR:HA	1:e:522:TRP:O	2.17	0.44
1:g:183:ILE:HD12	1:1:458:TYR:CZ	2.53	0.44
1:g:205:ASN:HB3	1:k:499:TYR:CE2	2.53	0.44
1:g:458:TYR:CZ	1:k:183:ILE:HD12	2.53	0.44
1:h:409:THR:HA	1:h:522:TRP:O	2.17	0.44
1:i:34:THR:CG2	1:i:228:GLY:O	2.65	0.44
1:j:205:ASN:HB3	1:l:499:TYR:CE2	2.53	0.44
1:j:249:SER:HB2	1:j:373:GLU:HB2	1.99	0.44
1:l:114:ILE:HD13	1:l:114:ILE:HA	1.75	0.44
1:l:345:GLY:HA3	1:l:348:GLU:OE2	2.17	0.44
1:n:137:LYS:HE2	1:n:137:LYS:HB3	1.73	0.44
1:o:249:SER:HB2	1:o:373:GLU:HB2	1.99	0.44
1:o:345:GLY:HA3	1:o:348:GLU:OE2	2.17	0.44
1:q:345:GLY:HA3	1:q:348:GLU:OE2	2.17	0.44
1:r:34:THR:CG2	1:r:228:GLY:O	2.65	0.44
1:r:37:TRP:CZ3	1:r:55:HIS:CE1	3.06	0.44
1:s:34:THR:CG2	1:s:228:GLY:O	2.65	0.44
1:t:339:TRP:CZ2	1:v:272:ASP:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:414:ILE:HG21	1:t:471:MET:HE1	1.99	0.44
1:u:53:SER:HA	1:u:467:ILE:O	2.17	0.44
1:u:120:TRP:CZ3	1:u:246:ASN:HB2	2.52	0.44
1:u:249:SER:HB2	1:u:373:GLU:HB2	1.98	0.44
1:u:502:MET:HE2	1:1:484:ASN:ND2	2.27	0.44
1:w:94:ASN:HB3	1:w:186:LEU:HB3	1.99	0.44
1:w:261:TYR:CE1	1:x:352:LYS:HA	2.52	0.44
1:x:53:SER:HA	1:x:467:ILE:O	2.17	0.44
1:x:114:ILE:HD13	1:x:114:ILE:HA	1.75	0.44
1:z:266:VAL:HG11	1:1:337:THR:HG22	1.99	0.44
1:z:337:THR:HG22	1:2:266:VAL:HG11	1.99	0.44
1:1:324:ILE:HB	1:1:376:ALA:O	2.18	0.44
1:2:183:ILE:HD13	1:3:451:PRO:HB3	2.00	0.44
1:3:119:LYS:HA	1:3:244:VAL:O	2.18	0.44
1:6:345:GLY:HA3	1:6:348:GLU:OE2	2.17	0.44
1:7:416:GLN:HG2	1:7:429:SER:HB2	1.98	0.44
1:7:486:TYR:CE1	1:7:488:MET:HE3	2.51	0.44
1:8:324:ILE:HB	1:8:376:ALA:O	2.18	0.44
1:A:96:ILE:HD13	1:A:186:LEU:HG	1.99	0.44
1:B:69:ILE:O	1:B:88:GLY:N	2.47	0.44
1:B:119:LYS:HA	1:B:244:VAL:O	2.18	0.44
1:B:324:ILE:HB	1:B:376:ALA:O	2.18	0.44
1:D:115:ASN:O	1:D:527:LEU:HD11	2.17	0.44
1:D:120:TRP:CZ3	1:D:246:ASN:HB2	2.52	0.44
1:E:34:THR:CG2	1:E:228:GLY:O	2.65	0.44
1:E:94:ASN:HB3	1:E:186:LEU:HB3	1.99	0.44
1:F:120:TRP:CZ3	1:F:246:ASN:HB2	2.52	0.44
1:F:416:GLN:HG2	1:F:429:SER:HB2	1.98	0.44
1:G:114:ILE:HD13	1:G:114:ILE:HA	1.75	0.44
1:H:119:LYS:HA	1:H:244:VAL:O	2.18	0.44
1:H:324:ILE:HB	1:H:376:ALA:O	2.18	0.44
1:I:120:TRP:CZ3	1:I:246:ASN:HB2	2.52	0.44
1:J:94:ASN:HB3	1:J:186:LEU:HB3	1.99	0.44
1:K:37:TRP:CZ3	1:K:55:HIS:CE1	3.06	0.44
1:K:94:ASN:HB3	1:K:186:LEU:HB3	1.99	0.44
1:K:337:THR:HG22	1:8:266:VAL:HG11	1.99	0.44
1:L:37:TRP:CZ3	1:L:55:HIS:CE1	3.06	0.44
1:M:249:SER:O	1:M:373:GLU:CG	2.54	0.44
1:M:499:TYR:CE2	1:N:205:ASN:HB3	2.53	0.44
1:N:37:TRP:CZ3	1:N:55:HIS:CE1	3.06	0.44
1:N:261:TYR:CE1	1:P:352:LYS:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:37:TRP:CZ3	1:O:55:HIS:CE1	3.06	0.44
1:P:183:ILE:HD13	1:Q:451:PRO:HB3	2.00	0.44
1:P:249:SER:HB2	1:P:373:GLU:HB2	1.98	0.44
1:Q:76:LEU:C	1:Q:303:LEU:HD13	2.42	0.44
1:R:69:ILE:O	1:R:88:GLY:N	2.47	0.44
1:S:34:THR:CG2	1:S:228:GLY:O	2.65	0.44
1:S:37:TRP:CZ3	1:S:55:HIS:CE1	3.06	0.44
1:S:114:ILE:HG23	1:S:526:ASN:ND2	2.32	0.44
1:T:37:TRP:CZ3	1:T:55:HIS:CE1	3.06	0.44
1:U:34:THR:CG2	1:U:228:GLY:O	2.65	0.44
1:U:137:LYS:HB3	1:U:137:LYS:HE2	1.73	0.44
1:U:249:SER:HB2	1:U:373:GLU:HB2	1.99	0.44
1:U:414:ILE:HG21	1:U:471:MET:HE1	1.99	0.44
1:V:34:THR:CG2	1:V:228:GLY:O	2.65	0.44
1:X:34:THR:CG2	1:X:228:GLY:O	2.65	0.44
1:X:249:SER:HB2	1:X:373:GLU:HB2	1.98	0.44
1:X:499:TYR:CE2	1:Y:205:ASN:HB3	2.53	0.44
1:Y:115:ASN:O	1:Y:527:LEU:HD11	2.16	0.44
1:Z:119:LYS:HA	1:Z:244:VAL:O	2.18	0.44
1:a:119:LYS:HA	1:a:244:VAL:O	2.18	0.44
1:c:96:ILE:HD13	1:c:186:LEU:HG	1.99	0.44
1:c:137:LYS:HE2	1:c:137:LYS:HB3	1.73	0.44
1:e:96:ILE:HD13	1:e:186:LEU:HG	1.99	0.44
1:f:114:ILE:HD13	1:f:114:ILE:HA	1.75	0.44
1:g:76:LEU:C	1:g:303:LEU:HD13	2.42	0.44
1:g:345:GLY:HA3	1:g:348:GLU:OE2	2.17	0.44
1:i:37:TRP:CZ3	1:i:55:HIS:CE1	3.06	0.44
1:i:261:TYR:CE1	1:j:352:LYS:HA	2.52	0.44
1:i:277:HIS:CE1	1:j:77:VAL:O	2.68	0.44
1:i:414:ILE:HG21	1:i:471:MET:HE1	1.99	0.44
1:j:327:ALA:H	1:j:377:ARG:NH2	2.14	0.44
1:k:76:LEU:C	1:k:303:LEU:HD13	2.42	0.44
1:l:37:TRP:CZ3	1:l:55:HIS:CE1	3.06	0.44
1:m:37:TRP:CZ3	1:m:55:HIS:CE1	3.06	0.44
1:m:261:TYR:CE1	1:n:352:LYS:HA	2.52	0.44
1:o:499:TYR:CE2	1:7:205:ASN:HB3	2.53	0.44
1:p:34:THR:CG2	1:p:228:GLY:O	2.65	0.44
1:p:94:ASN:HB3	1:p:186:LEU:HB3	1.99	0.44
1:q:266:VAL:HG11	1:r:337:THR:HG22	1.99	0.44
1:r:76:LEU:C	1:r:303:LEU:HD13	2.42	0.44
1:r:414:ILE:HG21	1:r:471:MET:HE1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:137:LYS:HB3	1:s:137:LYS:HE2	1.73	0.44
1:t:83:LYS:HD3	1:t:83:LYS:HA	1.78	0.44
1:t:337:THR:HG22	1:v:266:VAL:HG11	1.99	0.44
1:t:356:ILE:HD13	1:v:264:TRP:CE3	2.53	0.44
1:u:183:ILE:HD12	1:2:458:TYR:CZ	2.53	0.44
1:v:96:ILE:HD13	1:v:186:LEU:HG	1.99	0.44
1:v:414:ILE:HG21	1:v:471:MET:HE1	1.99	0.44
1:w:34:THR:CG2	1:w:228:GLY:O	2.65	0.44
1:w:324:ILE:HB	1:w:376:ALA:O	2.18	0.44
1:x:114:ILE:HG23	1:x:526:ASN:ND2	2.32	0.44
1:y:76:LEU:C	1:y:303:LEU:HD13	2.42	0.44
1:z:37:TRP:CZ3	1:z:55:HIS:CE1	3.06	0.44
1:1:119:LYS:HA	1:1:244:VAL:O	2.18	0.44
1:2:37:TRP:CZ3	1:2:55:HIS:CE1	3.06	0.44
1:4:76:LEU:C	1:4:303:LEU:HD13	2.42	0.44
1:4:114:ILE:HG23	1:4:526:ASN:ND2	2.32	0.44
1:5:75:GLY:HA3	1:5:83:LYS:HD2	1.99	0.44
1:5:283:GLN:HA	1:5:284:PRO:HD3	1.70	0.44
1:7:225:LEU:HD22	1:7:229:ASN:CB	2.48	0.44
1:8:119:LYS:HA	1:8:244:VAL:O	2.18	0.44
1:A:414:ILE:HG21	1:A:471:MET:HE1	1.99	0.44
1:B:298:ALA:HB3	1:B:301:ALA:HB2	1.99	0.44
1:B:484:ASN:ND2	1:I:502:MET:HE2	2.27	0.44
1:C:76:LEU:C	1:C:303:LEU:HD13	2.42	0.44
1:C:345:GLY:HA3	1:C:348:GLU:OE2	2.17	0.44
1:C:458:TYR:CZ	1:D:183:ILE:HD12	2.53	0.44
1:D:458:TYR:CZ	1:E:183:ILE:HD12	2.53	0.44
1:F:76:LEU:C	1:F:303:LEU:HD13	2.42	0.44
1:F:115:ASN:O	1:F:527:LEU:HD11	2.16	0.44
1:G:414:ILE:HG21	1:G:471:MET:HE1	1.99	0.44
1:J:37:TRP:CZ3	1:J:55:HIS:CE1	3.06	0.44
1:J:183:ILE:HD12	1:a:458:TYR:CZ	2.53	0.44
1:K:76:LEU:C	1:K:303:LEU:HD13	2.42	0.44
1:L:34:THR:CG2	1:L:228:GLY:O	2.65	0.44
1:L:96:ILE:HD13	1:L:186:LEU:HG	1.99	0.44
1:N:119:LYS:HA	1:N:244:VAL:O	2.18	0.44
1:N:283:GLN:HA	1:N:284:PRO:HD3	1.70	0.44
1:N:286:LEU:HD23	1:N:286:LEU:N	2.33	0.44
1:N:324:ILE:HB	1:N:376:ALA:O	2.18	0.44
1:O:458:TYR:CZ	1:d:183:ILE:HD12	2.53	0.44
1:P:499:TYR:CE2	1:Q:205:ASN:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:53:SER:HA	1:Q:467:ILE:O	2.17	0.44
1:R:37:TRP:CZ3	1:R:55:HIS:CE1	3.06	0.44
1:R:286:LEU:N	1:R:286:LEU:HD23	2.33	0.44
1:S:414:ILE:HG21	1:S:471:MET:HE1	1.99	0.44
1:T:183:ILE:HD12	1:U:458:TYR:CZ	2.53	0.44
1:T:261:TYR:CE1	1:d:352:LYS:HA	2.52	0.44
1:U:183:ILE:HD12	1:e:458:TYR:CZ	2.53	0.44
1:V:37:TRP:CZ3	1:V:55:HIS:CE1	3.06	0.44
1:V:249:SER:O	1:V:373:GLU:CG	2.54	0.44
1:V:277:HIS:CE1	1:e:77:VAL:O	2.67	0.44
1:W:324:ILE:HB	1:W:376:ALA:O	2.18	0.44
1:X:345:GLY:HA3	1:X:348:GLU:OE2	2.17	0.44
1:Y:225:LEU:HD22	1:Y:229:ASN:CB	2.48	0.44
1:a:266:VAL:HG11	1:8:337:THR:HG22	1.99	0.44
1:c:266:VAL:HG11	1:o:337:THR:HG22	1.99	0.44
1:c:409:THR:HA	1:c:522:TRP:O	2.17	0.44
1:c:458:TYR:CZ	1:s:183:ILE:HD12	2.53	0.44
1:d:416:GLN:HG2	1:d:429:SER:HB2	1.98	0.44
1:e:298:ALA:HB3	1:e:301:ALA:HB2	1.99	0.44
1:e:324:ILE:HB	1:e:376:ALA:O	2.18	0.44
1:f:205:ASN:HB3	1:z:499:TYR:CE2	2.53	0.44
1:g:137:LYS:HE2	1:g:137:LYS:HB3	1.73	0.44
1:g:183:ILE:HD13	1:1:451:PRO:HB3	2.00	0.44
1:h:114:ILE:HG23	1:h:526:ASN:ND2	2.32	0.44
1:i:119:LYS:HA	1:i:244:VAL:O	2.18	0.44
1:i:286:LEU:HD23	1:i:286:LEU:N	2.33	0.44
1:i:324:ILE:HB	1:i:376:ALA:O	2.18	0.44
1:j:298:ALA:HB3	1:j:301:ALA:HB2	1.99	0.44
1:k:458:TYR:CZ	1:w:183:ILE:HD12	2.53	0.44
1:m:183:ILE:HD12	1:s:458:TYR:CZ	2.53	0.44
1:n:75:GLY:HA3	1:n:83:LYS:HD2	1.99	0.44
1:o:34:THR:CG2	1:o:228:GLY:O	2.65	0.44
1:q:37:TRP:CZ3	1:q:55:HIS:CE1	3.06	0.44
1:q:286:LEU:N	1:q:286:LEU:HD23	2.33	0.44
1:r:114:ILE:HG23	1:r:526:ASN:ND2	2.32	0.44
1:s:76:LEU:C	1:s:303:LEU:HD13	2.42	0.44
1:s:414:ILE:HG21	1:s:471:MET:HE1	1.99	0.44
1:t:106:SER:HB3	1:5:483:TRP:CH2	2.52	0.44
1:t:119:LYS:HA	1:t:244:VAL:O	2.18	0.44
1:t:345:GLY:HA3	1:t:348:GLU:OE2	2.17	0.44
1:v:76:LEU:C	1:v:303:LEU:HD13	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:183:ILE:HD12	1:w:458:TYR:CZ	2.53	0.44
1:v:183:ILE:HD13	1:w:451:PRO:HB3	2.00	0.44
1:v:451:PRO:HB3	1:1:183:ILE:HD13	2.00	0.44
1:y:416:GLN:HG2	1:y:429:SER:HB2	1.98	0.44
1:1:69:ILE:O	1:1:88:GLY:N	2.47	0.44
1:1:298:ALA:HB3	1:1:301:ALA:HB2	1.99	0.44
1:3:298:ALA:HB3	1:3:301:ALA:HB2	1.99	0.44
1:4:37:TRP:CZ3	1:4:55:HIS:CE1	3.06	0.44
1:4:94:ASN:HB3	1:4:186:LEU:HB3	1.99	0.44
1:5:119:LYS:HA	1:5:244:VAL:O	2.18	0.44
1:5:298:ALA:HB3	1:5:301:ALA:HB2	1.99	0.44
1:5:324:ILE:HB	1:5:376:ALA:O	2.18	0.44
1:5:414:ILE:HG21	1:5:471:MET:HE1	1.99	0.44
1:6:324:ILE:HB	1:6:376:ALA:O	2.18	0.44
1:7:249:SER:O	1:7:373:GLU:CG	2.54	0.44
1:7:414:ILE:HG21	1:7:471:MET:HE1	1.99	0.44
1:8:75:GLY:HA3	1:8:83:LYS:HD2	1.99	0.44
1:8:298:ALA:HB3	1:8:301:ALA:HB2	1.99	0.44
1:B:409:THR:HA	1:B:522:TRP:O	2.17	0.44
1:C:94:ASN:HB3	1:C:186:LEU:HB3	1.99	0.44
1:H:249:SER:O	1:H:373:GLU:CG	2.54	0.44
1:H:298:ALA:HB3	1:H:301:ALA:HB2	1.99	0.44
1:H:414:ILE:HG21	1:H:471:MET:HE1	1.99	0.44
1:I:286:LEU:HD23	1:I:286:LEU:N	2.33	0.44
1:J:119:LYS:HA	1:J:244:VAL:O	2.18	0.44
1:K:34:THR:CG2	1:K:228:GLY:O	2.66	0.44
1:K:458:TYR:CZ	1:7:183:ILE:HD12	2.53	0.44
1:L:499:TYR:CE2	1:b:205:ASN:HB3	2.53	0.44
1:M:76:LEU:C	1:M:303:LEU:HD13	2.42	0.44
1:O:114:ILE:HG23	1:O:526:ASN:ND2	2.32	0.44
1:P:183:ILE:HD12	1:Q:458:TYR:CZ	2.53	0.44
1:P:327:ALA:H	1:P:377:ARG:NH2	2.14	0.44
1:Q:37:TRP:CZ3	1:Q:55:HIS:CE1	3.06	0.44
1:R:266:VAL:HG11	1:S:337:THR:HG22	1.99	0.44
1:S:76:LEU:C	1:S:303:LEU:HD13	2.42	0.44
1:T:266:VAL:HG11	1:d:337:THR:HG22	1.99	0.44
1:T:286:LEU:HD23	1:T:286:LEU:N	2.33	0.44
1:T:327:ALA:N	1:T:377:ARG:HH21	2.11	0.44
1:U:37:TRP:CZ3	1:U:55:HIS:CE1	3.06	0.44
1:U:76:LEU:C	1:U:303:LEU:HD13	2.42	0.44
1:U:120:TRP:CZ3	1:U:246:ASN:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:286:LEU:HD23	1:U:286:LEU:N	2.33	0.44
1:U:310:ASP:HA	1:U:315:TYR:HA	2.00	0.44
1:U:499:TYR:CE2	1:e:205:ASN:HB3	2.53	0.44
1:V:298:ALA:HB3	1:V:301:ALA:HB2	1.99	0.44
1:X:76:LEU:C	1:X:303:LEU:HD13	2.42	0.44
1:X:183:ILE:HD12	1:Y:458:TYR:CZ	2.53	0.44
1:X:337:THR:HG22	1:e:266:VAL:HG11	1.99	0.44
1:X:511:LEU:HD12	1:X:511:LEU:HA	1.73	0.44
1:Y:298:ALA:HB3	1:Y:301:ALA:HB2	1.99	0.44
1:Z:298:ALA:HB3	1:Z:301:ALA:HB2	1.99	0.44
1:a:283:GLN:HA	1:a:284:PRO:HD3	1.70	0.44
1:a:298:ALA:HB3	1:a:301:ALA:HB2	1.99	0.44
1:c:298:ALA:HB3	1:c:301:ALA:HB2	1.99	0.44
1:c:324:ILE:HB	1:c:376:ALA:O	2.18	0.44
1:e:76:LEU:C	1:e:303:LEU:HD13	2.42	0.44
1:g:94:ASN:HB3	1:g:186:LEU:HB3	1.99	0.44
1:g:324:ILE:HB	1:g:376:ALA:O	2.18	0.44
1:j:183:ILE:HD12	1:x:458:TYR:CZ	2.53	0.44
1:j:183:ILE:HD13	1:x:451:PRO:HB3	2.00	0.44
1:j:499:TYR:CE2	1:x:205:ASN:HB3	2.53	0.44
1:k:120:TRP:CZ3	1:k:246:ASN:HB2	2.52	0.44
1:l:96:ILE:HD13	1:l:186:LEU:HG	1.99	0.44
1:l:283:GLN:HA	1:l:284:PRO:HD3	1.70	0.44
1:l:286:LEU:HD23	1:l:286:LEU:N	2.33	0.44
1:m:183:ILE:HD13	1:s:451:PRO:HB3	2.00	0.44
1:m:266:VAL:HG11	1:n:337:THR:HG22	1.99	0.44
1:m:414:ILE:HG21	1:m:471:MET:HE1	1.99	0.44
1:m:499:TYR:CE2	1:s:205:ASN:HB3	2.53	0.44
1:n:119:LYS:HA	1:n:244:VAL:O	2.18	0.44
1:o:183:ILE:HD12	1:7:458:TYR:CZ	2.53	0.44
1:p:37:TRP:CZ3	1:p:55:HIS:CE1	3.06	0.44
1:q:183:ILE:HD13	1:y:451:PRO:HB3	2.00	0.44
1:q:249:SER:O	1:q:373:GLU:CG	2.54	0.44
1:s:37:TRP:CZ3	1:s:55:HIS:CE1	3.06	0.44
1:s:120:TRP:CZ3	1:s:246:ASN:HB2	2.52	0.44
1:s:283:GLN:HA	1:s:284:PRO:HD3	1.70	0.44
1:s:286:LEU:HD23	1:s:286:LEU:N	2.33	0.44
1:s:310:ASP:HA	1:s:315:TYR:HA	2.00	0.44
1:t:37:TRP:CZ3	1:t:55:HIS:CE1	3.06	0.44
1:t:484:ASN:ND2	1:5:502:MET:HE2	2.29	0.44
1:u:409:THR:HA	1:u:522:TRP:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:266:VAL:HG11	1:y:337:THR:HG22	1.99	0.44
1:y:324:ILE:HB	1:y:376:ALA:O	2.18	0.44
1:z:34:THR:CG2	1:z:228:GLY:O	2.65	0.44
1:z:96:ILE:HD13	1:z:186:LEU:HG	1.99	0.44
1:1:409:THR:HA	1:1:522:TRP:O	2.17	0.44
1:2:119:LYS:HA	1:2:244:VAL:O	2.18	0.44
1:2:183:ILE:HD12	1:3:458:TYR:CZ	2.53	0.44
1:3:120:TRP:CZ3	1:3:246:ASN:HB2	2.52	0.44
1:5:327:ALA:H	1:5:377:ARG:NH2	2.14	0.44
1:A:264:TRP:CE3	1:G:356:ILE:HD13	2.53	0.44
1:A:451:PRO:HB3	1:B:183:ILE:HD13	2.00	0.44
1:B:283:GLN:HA	1:B:284:PRO:HD3	1.70	0.44
1:C:137:LYS:HE2	1:C:137:LYS:HB3	1.73	0.44
1:E:119:LYS:HA	1:E:244:VAL:O	2.18	0.44
1:F:225:LEU:HD22	1:F:229:ASN:CB	2.48	0.44
1:F:324:ILE:HB	1:F:376:ALA:O	2.18	0.44
1:F:451:PRO:HB3	1:R:183:ILE:HD13	2.00	0.44
1:G:37:TRP:CZ3	1:G:55:HIS:CE1	3.06	0.44
1:G:266:VAL:HG11	1:I:337:THR:HG22	1.99	0.44
1:G:324:ILE:HB	1:G:376:ALA:O	2.18	0.44
1:H:37:TRP:CZ3	1:H:55:HIS:CE1	3.06	0.44
1:H:261:TYR:CE1	1:W:352:LYS:HA	2.52	0.44
1:H:283:GLN:HA	1:H:284:PRO:HD3	1.70	0.44
1:H:327:ALA:H	1:H:377:ARG:NH2	2.14	0.44
1:K:310:ASP:HA	1:K:315:TYR:HA	2.00	0.44
1:M:114:ILE:HG23	1:M:526:ASN:ND2	2.32	0.44
1:M:119:LYS:HA	1:M:244:VAL:O	2.18	0.44
1:O:286:LEU:N	1:O:286:LEU:HD23	2.33	0.44
1:R:120:TRP:CZ3	1:R:246:ASN:HB2	2.52	0.44
1:S:119:LYS:HA	1:S:244:VAL:O	2.18	0.44
1:S:499:TYR:CE2	1:d:205:ASN:HB3	2.53	0.44
1:T:76:LEU:C	1:T:303:LEU:HD13	2.42	0.44
1:T:183:ILE:HD13	1:U:451:PRO:HB3	2.00	0.44
1:T:324:ILE:HB	1:T:376:ALA:O	2.18	0.44
1:T:414:ILE:HG21	1:T:471:MET:HE1	1.99	0.44
1:T:499:TYR:CE2	1:U:205:ASN:HB3	2.53	0.44
1:U:114:ILE:HG23	1:U:526:ASN:ND2	2.32	0.44
1:U:409:THR:HA	1:U:522:TRP:O	2.17	0.44
1:V:83:LYS:HD3	1:V:83:LYS:HA	1.78	0.44
1:V:458:TYR:CZ	1:W:183:ILE:HD12	2.53	0.44
1:X:225:LEU:HD22	1:X:229:ASN:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:324:ILE:HB	1:X:376:ALA:O	2.18	0.44
1:Y:183:ILE:HD12	1:4:458:TYR:CZ	2.53	0.44
1:Y:324:ILE:HB	1:Y:376:ALA:O	2.18	0.44
1:Y:414:ILE:HG21	1:Y:471:MET:HE1	1.99	0.44
1:Y:499:TYR:CE2	1:4:205:ASN:HB3	2.53	0.44
1:Z:37:TRP:CZ3	1:Z:55:HIS:CE1	3.06	0.44
1:Z:504:ASN:OD1	1:Z:508:GLN:N	2.46	0.44
1:a:120:TRP:CZ3	1:a:246:ASN:HB2	2.52	0.44
1:b:114:ILE:HD13	1:b:114:ILE:HA	1.75	0.44
1:b:114:ILE:HG23	1:b:526:ASN:ND2	2.32	0.44
1:c:76:LEU:C	1:c:303:LEU:HD13	2.42	0.44
1:c:205:ASN:HB3	1:s:499:TYR:CE2	2.53	0.44
1:d:37:TRP:CZ3	1:d:55:HIS:CE1	3.06	0.44
1:d:75:GLY:HA3	1:d:83:LYS:HD2	1.99	0.44
1:d:119:LYS:HA	1:d:244:VAL:O	2.18	0.44
1:f:114:ILE:HG23	1:f:526:ASN:ND2	2.32	0.44
1:g:96:ILE:HD13	1:g:186:LEU:HG	1.99	0.44
1:h:119:LYS:HA	1:h:244:VAL:O	2.18	0.44
1:i:106:SER:HB3	1:l:483:TRP:CH2	2.53	0.44
1:l:114:ILE:HG23	1:l:526:ASN:ND2	2.32	0.44
1:m:324:ILE:HB	1:m:376:ALA:O	2.18	0.44
1:n:37:TRP:CZ3	1:n:55:HIS:CE1	3.06	0.44
1:n:205:ASN:HB3	1:r:499:TYR:CE2	2.53	0.44
1:o:324:ILE:HB	1:o:376:ALA:O	2.18	0.44
1:p:298:ALA:HB3	1:p:301:ALA:HB2	1.99	0.44
1:p:458:TYR:CZ	1:6:183:ILE:HD12	2.53	0.44
1:q:69:ILE:O	1:q:88:GLY:N	2.47	0.44
1:r:119:LYS:HA	1:r:244:VAL:O	2.18	0.44
1:r:266:VAL:HG11	1:s:337:THR:HG22	1.99	0.44
1:s:114:ILE:HG23	1:s:526:ASN:ND2	2.32	0.44
1:s:409:THR:HA	1:s:522:TRP:O	2.17	0.44
1:t:277:HIS:CE1	1:u:77:VAL:O	2.69	0.44
1:t:286:LEU:HD23	1:t:286:LEU:N	2.33	0.44
1:u:286:LEU:N	1:u:286:LEU:HD23	2.33	0.44
1:v:119:LYS:HA	1:v:244:VAL:O	2.18	0.44
1:v:458:TYR:CZ	1:1:183:ILE:HD12	2.53	0.44
1:w:119:LYS:HA	1:w:244:VAL:O	2.18	0.44
1:w:225:LEU:HD22	1:w:229:ASN:CB	2.48	0.44
1:x:37:TRP:CZ3	1:x:55:HIS:CE1	3.06	0.44
1:y:298:ALA:HB3	1:y:301:ALA:HB2	1.99	0.44
1:3:324:ILE:HB	1:3:376:ALA:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:37:TRP:CZ3	1:5:55:HIS:CE1	3.06	0.44
1:7:115:ASN:O	1:7:527:LEU:HD11	2.17	0.44
1:7:298:ALA:HB3	1:7:301:ALA:HB2	1.99	0.44
1:7:324:ILE:HB	1:7:376:ALA:O	2.18	0.44
1:8:37:TRP:CZ3	1:8:55:HIS:CE1	3.06	0.44
1:A:119:LYS:HA	1:A:244:VAL:O	2.18	0.43
1:A:205:ASN:HB3	1:B:499:TYR:CZ	2.53	0.43
1:A:286:LEU:HD23	1:A:286:LEU:N	2.33	0.43
1:A:398:ILE:HG21	1:G:291:ILE:HD11	2.00	0.43
1:C:114:ILE:HG23	1:C:526:ASN:ND2	2.32	0.43
1:D:119:LYS:HA	1:D:244:VAL:O	2.18	0.43
1:E:225:LEU:HD22	1:E:229:ASN:CB	2.48	0.43
1:E:352:LYS:HA	1:F:261:TYR:CE1	2.52	0.43
1:F:183:ILE:HD13	1:G:451:PRO:HB3	2.00	0.43
1:F:298:ALA:HB3	1:F:301:ALA:HB2	1.99	0.43
1:F:337:THR:HG22	1:Q:266:VAL:HG11	1.99	0.43
1:F:458:TYR:CZ	1:R:183:ILE:HD12	2.53	0.43
1:G:183:ILE:HD13	1:W:451:PRO:HB3	2.00	0.43
1:G:286:LEU:N	1:G:286:LEU:HD23	2.33	0.43
1:H:205:ASN:HB3	1:Z:499:TYR:CE2	2.53	0.43
1:I:96:ILE:HD13	1:I:186:LEU:HG	1.99	0.43
1:I:409:THR:HA	1:I:522:TRP:O	2.17	0.43
1:K:205:ASN:HB3	1:7:499:TYR:CE2	2.53	0.43
1:K:249:SER:HB2	1:K:373:GLU:HB2	1.98	0.43
1:K:458:TYR:CE1	1:7:183:ILE:HD12	2.52	0.43
1:L:76:LEU:C	1:L:303:LEU:HD13	2.42	0.43
1:N:75:GLY:HA3	1:N:83:LYS:HD2	1.99	0.43
1:N:106:SER:HB3	1:O:483:TRP:CH2	2.53	0.43
1:O:324:ILE:HB	1:O:376:ALA:O	2.18	0.43
1:P:310:ASP:HA	1:P:315:TYR:HA	2.00	0.43
1:Q:298:ALA:HB3	1:Q:301:ALA:HB2	1.99	0.43
1:S:266:VAL:HG11	1:U:337:THR:HG22	1.99	0.43
1:T:337:THR:HG22	1:l:266:VAL:HG11	1.99	0.43
1:V:451:PRO:HB3	1:W:183:ILE:HD13	2.00	0.43
1:Y:37:TRP:CZ3	1:Y:55:HIS:CE1	3.06	0.43
1:Y:96:ILE:HD13	1:Y:186:LEU:HG	1.99	0.43
1:Y:183:ILE:HD12	1:4:458:TYR:CE1	2.52	0.43
1:Y:286:LEU:HD23	1:Y:286:LEU:N	2.33	0.43
1:Y:483:TRP:CH2	1:Z:106:SER:HB3	2.53	0.43
1:Z:205:ASN:HB3	1:a:499:TYR:CE2	2.53	0.43
1:a:102:CYS:HA	1:a:410:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:310:ASP:HA	1:a:315:TYR:HA	2.00	0.43
1:a:324:ILE:HB	1:a:376:ALA:O	2.18	0.43
1:b:37:TRP:CZ3	1:b:55:HIS:CE1	3.06	0.43
1:d:64:ASP:HA	1:d:92:PRO:HB3	2.01	0.43
1:e:34:THR:CG2	1:e:228:GLY:O	2.65	0.43
1:e:37:TRP:CZ3	1:e:55:HIS:CE1	3.06	0.43
1:e:286:LEU:HD23	1:e:286:LEU:N	2.33	0.43
1:f:37:TRP:CZ3	1:f:55:HIS:CE1	3.06	0.43
1:f:409:THR:HA	1:f:522:TRP:O	2.17	0.43
1:g:114:ILE:HG23	1:g:526:ASN:ND2	2.32	0.43
1:h:76:LEU:C	1:h:303:LEU:HD13	2.42	0.43
1:h:324:ILE:HB	1:h:376:ALA:O	2.18	0.43
1:j:283:GLN:HA	1:j:284:PRO:HD3	1.70	0.43
1:j:310:ASP:HA	1:j:315:TYR:HA	2.00	0.43
1:m:76:LEU:C	1:m:303:LEU:HD13	2.42	0.43
1:m:94:ASN:HB3	1:m:186:LEU:HB3	1.99	0.43
1:n:64:ASP:HA	1:n:92:PRO:HB3	2.01	0.43
1:o:37:TRP:CZ3	1:o:55:HIS:CE1	3.06	0.43
1:o:76:LEU:C	1:o:303:LEU:HD13	2.42	0.43
1:o:225:LEU:HD22	1:o:229:ASN:CB	2.48	0.43
1:p:451:PRO:HB3	1:6:183:ILE:HD13	2.00	0.43
1:q:64:ASP:OD1	1:q:446:LYS:NZ	2.38	0.43
1:t:40:ASN:HB3	1:6:221:PRO:HD3	2.00	0.43
1:t:277:HIS:HA	1:u:84:THR:HB	2.00	0.43
1:t:324:ILE:HB	1:t:376:ALA:O	2.18	0.43
1:u:205:ASN:HB3	1:5:499:TYR:CE2	2.53	0.43
1:v:34:THR:CG2	1:v:228:GLY:O	2.66	0.43
1:v:286:LEU:N	1:v:286:LEU:HD23	2.33	0.43
1:y:64:ASP:HA	1:y:92:PRO:HB3	2.00	0.43
1:y:115:ASN:O	1:y:527:LEU:HD11	2.16	0.43
1:y:225:LEU:HD22	1:y:229:ASN:CB	2.48	0.43
1:z:76:LEU:C	1:z:303:LEU:HD13	2.42	0.43
1:z:324:ILE:HB	1:z:376:ALA:O	2.18	0.43
1:3:75:GLY:HA3	1:3:83:LYS:HD2	1.99	0.43
1:3:310:ASP:HA	1:3:315:TYR:HA	2.00	0.43
1:4:34:THR:CG2	1:4:228:GLY:O	2.66	0.43
1:4:286:LEU:N	1:4:286:LEU:HD23	2.33	0.43
1:4:310:ASP:HA	1:4:315:TYR:HA	2.00	0.43
1:5:261:TYR:CE1	1:6:352:LYS:HA	2.52	0.43
1:7:37:TRP:CZ3	1:7:55:HIS:CE1	3.06	0.43
1:7:286:LEU:N	1:7:286:LEU:HD23	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:483:TRP:CH2	1:8:106:SER:HB3	2.53	0.43
1:A:34:THR:CG2	1:A:228:GLY:O	2.65	0.43
1:A:102:CYS:HA	1:A:410:TYR:CZ	2.54	0.43
1:A:106:SER:HB3	1:F:483:TRP:CH2	2.53	0.43
1:A:277:HIS:HA	1:G:84:THR:HB	2.01	0.43
1:A:285:TRP:CZ3	1:G:416:GLN:NE2	2.86	0.43
1:A:326:ARG:HG3	1:A:334:TYR:HB3	2.00	0.43
1:B:114:ILE:HG23	1:B:526:ASN:ND2	2.32	0.43
1:C:34:THR:CG2	1:C:228:GLY:O	2.65	0.43
1:C:96:ILE:HD13	1:C:186:LEU:HG	1.99	0.43
1:C:324:ILE:HB	1:C:376:ALA:O	2.18	0.43
1:E:484:ASN:ND2	1:P:502:MET:HE2	2.27	0.43
1:F:34:THR:CG2	1:F:228:GLY:O	2.66	0.43
1:F:37:TRP:CZ3	1:F:55:HIS:CE1	3.06	0.43
1:F:64:ASP:HA	1:F:92:PRO:HB3	2.01	0.43
1:G:83:LYS:HD3	1:G:83:LYS:HA	1.78	0.43
1:G:409:THR:HA	1:G:522:TRP:O	2.17	0.43
1:H:458:TYR:CZ	1:Z:183:ILE:HD12	2.53	0.43
1:H:499:TYR:CE2	1:I:205:ASN:HB3	2.53	0.43
1:I:64:ASP:HA	1:I:92:PRO:HB3	2.01	0.43
1:J:327:ALA:H	1:J:377:ARG:NH2	2.14	0.43
1:K:96:ILE:HD13	1:K:186:LEU:HG	1.99	0.43
1:K:286:LEU:N	1:K:286:LEU:HD23	2.33	0.43
1:K:499:TYR:CE2	1:L:205:ASN:HB3	2.53	0.43
1:L:94:ASN:HB3	1:L:186:LEU:HB3	1.99	0.43
1:L:286:LEU:N	1:L:286:LEU:HD23	2.33	0.43
1:L:324:ILE:HB	1:L:376:ALA:O	2.18	0.43
1:M:64:ASP:HA	1:M:92:PRO:HB3	2.01	0.43
1:M:324:ILE:HB	1:M:376:ALA:O	2.18	0.43
1:O:183:ILE:HD12	1:P:458:TYR:CZ	2.53	0.43
1:P:119:LYS:HA	1:P:244:VAL:O	2.18	0.43
1:Q:34:THR:CG2	1:Q:228:GLY:O	2.65	0.43
1:Q:102:CYS:HA	1:Q:410:TYR:CZ	2.54	0.43
1:S:484:ASN:ND2	1:T:502:MET:HE2	2.27	0.43
1:T:102:CYS:HA	1:T:410:TYR:CZ	2.54	0.43
1:T:114:ILE:HG23	1:T:526:ASN:ND2	2.32	0.43
1:U:94:ASN:HB3	1:U:186:LEU:HB3	1.99	0.43
1:W:102:CYS:HA	1:W:410:TYR:CZ	2.54	0.43
1:Y:64:ASP:HA	1:Y:92:PRO:HB3	2.01	0.43
1:Z:76:LEU:C	1:Z:303:LEU:HD13	2.42	0.43
1:a:75:GLY:HA3	1:a:83:LYS:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:94:ASN:HB3	1:a:186:LEU:HB3	1.98	0.43
1:a:345:GLY:HA3	1:a:348:GLU:OE2	2.17	0.43
1:b:324:ILE:HB	1:b:376:ALA:O	2.18	0.43
1:b:409:THR:HA	1:b:522:TRP:O	2.17	0.43
1:c:34:THR:CG2	1:c:228:GLY:O	2.65	0.43
1:c:37:TRP:CZ3	1:c:55:HIS:CE1	3.06	0.43
1:c:286:LEU:N	1:c:286:LEU:HD23	2.33	0.43
1:d:272:ASP:HB2	1:l:339:TRP:CZ2	2.54	0.43
1:g:34:THR:CG2	1:g:228:GLY:O	2.65	0.43
1:g:337:THR:HG22	1:h:266:VAL:HG11	1.99	0.43
1:h:39:CYS:HB2	1:i:219:GLU:CA	2.34	0.43
1:i:75:GLY:HA3	1:i:83:LYS:HD2	1.99	0.43
1:i:483:TRP:CH2	1:l:106:SER:HB3	2.53	0.43
1:j:64:ASP:HA	1:j:92:PRO:HB3	2.00	0.43
1:j:119:LYS:HA	1:j:244:VAL:O	2.18	0.43
1:k:75:GLY:HA3	1:k:83:LYS:HD2	1.99	0.43
1:k:119:LYS:HA	1:k:244:VAL:O	2.18	0.43
1:l:64:ASP:OD1	1:l:446:LYS:NZ	2.38	0.43
1:l:324:ILE:HB	1:l:376:ALA:O	2.18	0.43
1:m:69:ILE:O	1:m:88:GLY:N	2.47	0.43
1:m:102:CYS:HA	1:m:410:TYR:CZ	2.54	0.43
1:m:286:LEU:HD23	1:m:286:LEU:N	2.33	0.43
1:q:120:TRP:CZ3	1:q:246:ASN:HB2	2.52	0.43
1:r:249:SER:HB2	1:r:373:GLU:HB2	1.99	0.43
1:s:94:ASN:HB3	1:s:186:LEU:HB3	1.99	0.43
1:s:324:ILE:HB	1:s:376:ALA:O	2.18	0.43
1:t:266:VAL:HG11	1:u:337:THR:HG22	1.99	0.43
1:u:64:ASP:HA	1:u:92:PRO:HB3	2.00	0.43
1:u:96:ILE:HD13	1:u:186:LEU:HG	1.99	0.43
1:v:37:TRP:CZ3	1:v:55:HIS:CE1	3.06	0.43
1:v:102:CYS:HA	1:v:410:TYR:CZ	2.54	0.43
1:v:326:ARG:HG3	1:v:334:TYR:HB3	2.00	0.43
1:w:352:LYS:HA	1:y:261:TYR:CE1	2.52	0.43
1:x:102:CYS:HA	1:x:410:TYR:CZ	2.54	0.43
1:x:298:ALA:HB3	1:x:301:ALA:HB2	1.99	0.43
1:y:34:THR:CG2	1:y:228:GLY:O	2.65	0.43
1:y:37:TRP:CZ3	1:y:55:HIS:CE1	3.06	0.43
1:y:114:ILE:HG23	1:y:526:ASN:ND2	2.32	0.43
1:z:94:ASN:HB3	1:z:186:LEU:HB3	1.99	0.43
1:z:286:LEU:N	1:z:286:LEU:HD23	2.33	0.43
1:z:414:ILE:HG21	1:z:471:MET:HE1	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:114:ILE:HG23	1:1:526:ASN:ND2	2.32	0.43
1:3:102:CYS:HA	1:3:410:TYR:CZ	2.54	0.43
1:3:499:TYR:CE2	1:8:205:ASN:HB3	2.53	0.43
1:4:96:ILE:HD13	1:4:186:LEU:HG	1.99	0.43
1:5:34:THR:CG2	1:5:228:GLY:O	2.65	0.43
1:5:205:ASN:HB3	1:8:499:TYR:CE2	2.53	0.43
1:6:37:TRP:CZ3	1:6:55:HIS:CE1	3.06	0.43
1:6:102:CYS:HA	1:6:410:TYR:CZ	2.54	0.43
1:7:64:ASP:HA	1:7:92:PRO:HB3	2.01	0.43
1:7:96:ILE:HD13	1:7:186:LEU:HG	1.99	0.43
1:8:286:LEU:N	1:8:286:LEU:HD23	2.33	0.43
1:8:504:ASN:OD1	1:8:508:GLN:N	2.46	0.43
1:A:298:ALA:HB3	1:A:301:ALA:HB2	1.99	0.43
1:A:339:TRP:CZ2	1:I:272:ASP:HB2	2.53	0.43
1:A:483:TRP:CH2	1:F:106:SER:HB3	2.53	0.43
1:C:337:THR:HG22	1:M:266:VAL:HG11	1.99	0.43
1:D:75:GLY:HA3	1:D:83:LYS:HD2	1.99	0.43
1:E:286:LEU:HD23	1:E:286:LEU:N	2.33	0.43
1:E:310:ASP:HA	1:E:315:TYR:HA	2.00	0.43
1:F:114:ILE:HG23	1:F:526:ASN:ND2	2.32	0.43
1:F:183:ILE:HD12	1:G:458:TYR:CZ	2.53	0.43
1:F:286:LEU:HD23	1:F:286:LEU:N	2.33	0.43
1:F:414:ILE:HG21	1:F:471:MET:HE1	1.99	0.43
1:H:56:CYS:O	1:H:464:THR:HA	2.19	0.43
1:J:286:LEU:HD23	1:J:286:LEU:N	2.33	0.43
1:L:114:ILE:HG23	1:L:526:ASN:ND2	2.32	0.43
1:O:34:THR:CG2	1:O:228:GLY:O	2.65	0.43
1:O:339:TRP:CZ2	1:n:272:ASP:HB2	2.54	0.43
1:P:64:ASP:HA	1:P:92:PRO:HB3	2.01	0.43
1:Q:96:ILE:HD13	1:Q:186:LEU:HG	1.99	0.43
1:Q:114:ILE:HD13	1:Q:114:ILE:HA	1.75	0.43
1:Q:137:LYS:HB3	1:Q:137:LYS:HE2	1.73	0.43
1:R:249:SER:O	1:R:373:GLU:CG	2.54	0.43
1:S:75:GLY:HA3	1:S:83:LYS:HD2	1.99	0.43
1:S:249:SER:HB2	1:S:373:GLU:HB2	1.99	0.43
1:S:298:ALA:HB3	1:S:301:ALA:HB2	1.99	0.43
1:T:64:ASP:HA	1:T:92:PRO:HB3	2.01	0.43
1:T:69:ILE:O	1:T:88:GLY:N	2.47	0.43
1:T:94:ASN:HB3	1:T:186:LEU:HB3	1.99	0.43
1:T:458:TYR:CZ	1:i:183:ILE:HD12	2.53	0.43
1:U:324:ILE:HB	1:U:376:ALA:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:114:ILE:HD11	1:V:524:THR:HG22	2.01	0.43
1:V:119:LYS:HA	1:V:244:VAL:O	2.18	0.43
1:W:34:THR:CG2	1:W:228:GLY:O	2.65	0.43
1:W:37:TRP:CZ3	1:W:55:HIS:CE1	3.06	0.43
1:X:37:TRP:CZ3	1:X:55:HIS:CE1	3.06	0.43
1:Z:102:CYS:HA	1:Z:410:TYR:CZ	2.54	0.43
1:Z:286:LEU:N	1:Z:286:LEU:HD23	2.33	0.43
1:Z:339:TRP:CZ2	1:3:272:ASP:HB2	2.54	0.43
1:a:34:THR:CG2	1:a:228:GLY:O	2.65	0.43
1:a:83:LYS:HD3	1:a:83:LYS:HA	1.78	0.43
1:a:272:ASP:HB2	1:8:339:TRP:CZ2	2.54	0.43
1:b:298:ALA:HB3	1:b:301:ALA:HB2	1.99	0.43
1:f:298:ALA:HB3	1:f:301:ALA:HB2	1.99	0.43
1:f:324:ILE:HB	1:f:376:ALA:O	2.18	0.43
1:h:64:ASP:HA	1:h:92:PRO:HB3	2.01	0.43
1:i:283:GLN:HA	1:i:284:PRO:HD3	1.70	0.43
1:j:56:CYS:O	1:j:464:THR:HA	2.19	0.43
1:j:451:PRO:HB3	1:l:183:ILE:HD13	2.00	0.43
1:l:34:THR:CG2	1:l:228:GLY:O	2.65	0.43
1:m:83:LYS:HD3	1:m:83:LYS:HA	1.78	0.43
1:m:114:ILE:HG23	1:m:526:ASN:ND2	2.32	0.43
1:o:114:ILE:HD13	1:o:114:ILE:HA	1.75	0.43
1:p:114:ILE:HD11	1:p:524:THR:HG22	2.01	0.43
1:p:414:ILE:HG21	1:p:471:MET:HE1	1.99	0.43
1:q:183:ILE:HD12	1:y:458:TYR:CZ	2.53	0.43
1:q:499:TYR:CE2	1:y:205:ASN:HB3	2.53	0.43
1:r:298:ALA:HB3	1:r:301:ALA:HB2	1.99	0.43
1:r:458:TYR:CZ	1:x:183:ILE:HD12	2.53	0.43
1:t:64:ASP:HA	1:t:92:PRO:HB3	2.00	0.43
1:t:294:THR:HB	1:v:383:ALA:CB	2.48	0.43
1:t:409:THR:HA	1:t:522:TRP:O	2.17	0.43
1:w:286:LEU:HD23	1:w:286:LEU:N	2.33	0.43
1:x:34:THR:CG2	1:x:228:GLY:O	2.65	0.43
1:x:96:ILE:HD13	1:x:186:LEU:HG	1.99	0.43
1:z:114:ILE:HG23	1:z:526:ASN:ND2	2.32	0.43
1:z:205:ASN:HB3	1:4:499:TYR:CE2	2.53	0.43
1:1:37:TRP:CZ3	1:1:55:HIS:CE1	3.06	0.43
1:2:286:LEU:HD23	1:2:286:LEU:N	2.33	0.43
1:3:183:ILE:HD12	1:8:458:TYR:CZ	2.53	0.43
1:3:345:GLY:HA3	1:3:348:GLU:OE2	2.17	0.43
1:4:249:SER:HB2	1:4:373:GLU:HB2	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:56:CYS:O	1:5:464:THR:HA	2.19	0.43
1:5:458:TYR:CZ	1:8:183:ILE:HD12	2.53	0.43
1:A:37:TRP:CZ3	1:A:55:HIS:CE1	3.06	0.43
1:A:40:ASN:HB3	1:E:221:PRO:HD3	2.00	0.43
1:A:294:THR:HB	1:I:383:ALA:CB	2.48	0.43
1:B:37:TRP:CZ3	1:B:55:HIS:CE1	3.06	0.43
1:B:219:GLU:CA	1:C:39:CYS:HB2	2.34	0.43
1:B:326:ARG:HG3	1:B:334:TYR:HB3	2.00	0.43
1:D:64:ASP:HA	1:D:92:PRO:HB3	2.00	0.43
1:D:84:THR:HB	1:P:277:HIS:HA	2.01	0.43
1:D:114:ILE:HD11	1:D:524:THR:HG22	2.01	0.43
1:D:451:PRO:HB3	1:E:183:ILE:HD13	2.00	0.43
1:E:106:SER:HB3	1:P:483:TRP:CH2	2.54	0.43
1:E:414:ILE:HG21	1:E:471:MET:HE1	1.99	0.43
1:G:64:ASP:HA	1:G:92:PRO:HB3	2.01	0.43
1:G:96:ILE:HD13	1:G:186:LEU:HG	1.99	0.43
1:H:34:THR:CG2	1:H:228:GLY:O	2.65	0.43
1:H:84:THR:HB	1:Y:277:HIS:HA	2.01	0.43
1:H:248:ARG:HH11	1:H:370:ARG:HA	1.84	0.43
1:J:310:ASP:HA	1:J:315:TYR:HA	2.00	0.43
1:J:326:ARG:HG3	1:J:334:TYR:HB3	2.01	0.43
1:L:248:ARG:HH11	1:L:370:ARG:HA	1.84	0.43
1:L:414:ILE:HG21	1:L:471:MET:HE1	1.99	0.43
1:M:205:ASN:HB3	1:c:499:TYR:CE2	2.53	0.43
1:N:183:ILE:HD12	1:m:458:TYR:CZ	2.53	0.43
1:O:64:ASP:HA	1:O:92:PRO:HB3	2.00	0.43
1:P:56:CYS:O	1:P:464:THR:HA	2.19	0.43
1:P:65:MET:HE3	1:P:65:MET:HB2	1.92	0.43
1:R:324:ILE:HB	1:R:376:ALA:O	2.18	0.43
1:U:248:ARG:HH11	1:U:370:ARG:HA	1.84	0.43
1:V:326:ARG:HG3	1:V:334:TYR:HB3	2.00	0.43
1:V:414:ILE:HG21	1:V:471:MET:HE1	1.99	0.43
1:W:96:ILE:HD13	1:W:186:LEU:HG	1.99	0.43
1:W:310:ASP:HA	1:W:315:TYR:HA	2.00	0.43
1:X:414:ILE:HG21	1:X:471:MET:HE1	1.99	0.43
1:Z:56:CYS:O	1:Z:464:THR:HA	2.19	0.43
1:b:499:TYR:CE2	1:o:205:ASN:HB3	2.53	0.43
1:d:56:CYS:O	1:d:464:THR:HA	2.19	0.43
1:d:69:ILE:O	1:d:88:GLY:N	2.47	0.43
1:e:119:LYS:HA	1:e:244:VAL:O	2.18	0.43
1:e:137:LYS:HE2	1:e:137:LYS:HB3	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:119:LYS:HA	1:f:244:VAL:O	2.18	0.43
1:f:451:PRO:HB3	1:z:183:ILE:HD13	2.00	0.43
1:f:458:TYR:CZ	1:z:183:ILE:HD12	2.53	0.43
1:g:248:ARG:HH11	1:g:370:ARG:HA	1.84	0.43
1:g:286:LEU:O	1:g:402:ILE:N	2.41	0.43
1:g:310:ASP:HA	1:g:315:TYR:HA	2.00	0.43
1:j:102:CYS:HA	1:j:410:TYR:CZ	2.54	0.43
1:j:277:HIS:HA	1:k:84:THR:HB	2.01	0.43
1:j:483:TRP:CH2	1:w:106:SER:HB3	2.54	0.43
1:k:64:ASP:HA	1:k:92:PRO:HB3	2.00	0.43
1:l:64:ASP:HA	1:l:92:PRO:HB3	2.00	0.43
1:m:39:CYS:HB2	1:s:219:GLU:CA	2.34	0.43
1:m:64:ASP:HA	1:m:92:PRO:HB3	2.01	0.43
1:n:56:CYS:O	1:n:464:THR:HA	2.19	0.43
1:n:69:ILE:O	1:n:88:GLY:N	2.47	0.43
1:p:76:LEU:C	1:p:303:LEU:HD13	2.42	0.43
1:p:83:LYS:HD3	1:p:83:LYS:HA	1.78	0.43
1:p:119:LYS:HA	1:p:244:VAL:O	2.18	0.43
1:p:225:LEU:HD22	1:p:229:ASN:CB	2.48	0.43
1:p:326:ARG:HG3	1:p:334:TYR:HB3	2.00	0.43
1:q:324:ILE:HB	1:q:376:ALA:O	2.18	0.43
1:r:75:GLY:HA3	1:r:83:LYS:HD2	1.99	0.43
1:r:114:ILE:HD13	1:r:114:ILE:HA	1.75	0.43
1:s:248:ARG:HH11	1:s:370:ARG:HA	1.84	0.43
1:t:34:THR:CG2	1:t:228:GLY:O	2.65	0.43
1:t:96:ILE:HD13	1:t:186:LEU:HG	1.99	0.43
1:t:102:CYS:HA	1:t:410:TYR:CZ	2.54	0.43
1:u:483:TRP:CH2	1:1:106:SER:HB3	2.54	0.43
1:w:310:ASP:HA	1:w:315:TYR:HA	2.00	0.43
1:y:83:LYS:HD3	1:y:83:LYS:HA	1.78	0.43
1:y:286:LEU:N	1:y:286:LEU:HD23	2.33	0.43
1:y:414:ILE:HG21	1:y:471:MET:HE1	1.99	0.43
1:z:248:ARG:HH11	1:z:370:ARG:HA	1.84	0.43
1:1:310:ASP:HA	1:1:315:TYR:HA	2.00	0.43
1:2:327:ALA:H	1:2:377:ARG:NH2	2.14	0.43
1:3:34:THR:CG2	1:3:228:GLY:O	2.66	0.43
1:6:69:ILE:O	1:6:88:GLY:N	2.47	0.43
1:6:96:ILE:HD13	1:6:186:LEU:HG	1.99	0.43
1:7:119:LYS:HA	1:7:244:VAL:O	2.18	0.43
1:8:56:CYS:O	1:8:464:THR:HA	2.19	0.43
1:8:76:LEU:C	1:8:303:LEU:HD13	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:96:ILE:HD13	1:8:186:LEU:HG	1.99	0.43
1:8:102:CYS:HA	1:8:410:TYR:CZ	2.54	0.43
1:A:183:ILE:HD12	1:E:458:TYR:CZ	2.53	0.43
1:A:303:LEU:HD23	1:I:279:SER:HB3	2.00	0.43
1:B:106:SER:HB3	1:I:483:TRP:CH2	2.54	0.43
1:B:310:ASP:HA	1:B:315:TYR:HA	2.00	0.43
1:C:248:ARG:HH11	1:C:370:ARG:HA	1.84	0.43
1:C:310:ASP:HA	1:C:315:TYR:HA	2.00	0.43
1:E:75:GLY:HA3	1:E:83:LYS:HD2	1.99	0.43
1:F:205:ASN:HB3	1:R:499:TYR:CE2	2.53	0.43
1:G:34:THR:CG2	1:G:228:GLY:O	2.65	0.43
1:G:102:CYS:HA	1:G:410:TYR:CZ	2.54	0.43
1:G:277:HIS:HA	1:I:84:THR:HB	2.01	0.43
1:G:326:ARG:HG3	1:G:334:TYR:HB3	2.00	0.43
1:H:34:THR:HG1	1:H:131:ASN:H	1.64	0.43
1:H:183:ILE:HD12	1:I:458:TYR:CZ	2.53	0.43
1:I:37:TRP:CZ3	1:I:55:HIS:CE1	3.06	0.43
1:I:102:CYS:HA	1:I:410:TYR:CZ	2.54	0.43
1:J:225:LEU:HD22	1:J:229:ASN:CB	2.48	0.43
1:K:277:HIS:HA	1:a:84:THR:HB	2.01	0.43
1:K:414:ILE:HG21	1:K:471:MET:HE1	1.99	0.43
1:K:451:PRO:HB3	1:7:183:ILE:HD13	2.00	0.43
1:L:183:ILE:HD12	1:b:458:TYR:CZ	2.53	0.43
1:L:183:ILE:HD13	1:b:451:PRO:HB3	2.00	0.43
1:N:483:TRP:CH2	1:O:106:SER:HB3	2.53	0.43
1:O:183:ILE:HD13	1:P:451:PRO:HB3	2.00	0.43
1:P:37:TRP:CZ3	1:P:55:HIS:CE1	3.06	0.43
1:P:102:CYS:HA	1:P:410:TYR:CZ	2.54	0.43
1:P:225:LEU:HD22	1:P:229:ASN:CB	2.48	0.43
1:P:324:ILE:HB	1:P:376:ALA:O	2.18	0.43
1:Q:183:ILE:HD12	1:S:458:TYR:CZ	2.53	0.43
1:R:277:HIS:HA	1:S:84:THR:HB	2.01	0.43
1:R:451:PRO:HB3	1:V:183:ILE:HD13	2.00	0.43
1:S:106:SER:HB3	1:T:483:TRP:CH2	2.54	0.43
1:T:248:ARG:HH11	1:T:370:ARG:HA	1.84	0.43
1:T:310:ASP:HA	1:T:315:TYR:HA	2.00	0.43
1:U:106:SER:HB3	1:V:483:TRP:CH2	2.54	0.43
1:U:119:LYS:HA	1:U:244:VAL:O	2.18	0.43
1:U:283:GLN:HA	1:U:284:PRO:HD3	1.69	0.43
1:U:298:ALA:HB3	1:U:301:ALA:HB2	1.99	0.43
1:V:76:LEU:C	1:V:303:LEU:HD13	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:64:ASP:HA	1:W:92:PRO:HB3	2.00	0.43
1:W:83:LYS:HD3	1:W:83:LYS:HA	1.78	0.43
1:W:286:LEU:N	1:W:286:LEU:HD23	2.33	0.43
1:X:56:CYS:O	1:X:464:THR:HA	2.19	0.43
1:X:119:LYS:HA	1:X:244:VAL:O	2.18	0.43
1:X:183:ILE:HD13	1:Y:451:PRO:HB3	2.00	0.43
1:X:205:ASN:HB3	1:f:499:TYR:CE2	2.53	0.43
1:X:458:TYR:CZ	1:f:183:ILE:HD12	2.53	0.43
1:Y:56:CYS:O	1:Y:464:THR:HA	2.19	0.43
1:Y:310:ASP:HA	1:Y:315:TYR:HA	2.00	0.43
1:a:114:ILE:HD11	1:a:524:THR:HG22	2.01	0.43
1:b:56:CYS:O	1:b:464:THR:HA	2.19	0.43
1:b:64:ASP:OD1	1:b:446:LYS:NZ	2.38	0.43
1:b:183:ILE:HD12	1:o:458:TYR:CZ	2.53	0.43
1:c:64:ASP:HA	1:c:92:PRO:HB3	2.00	0.43
1:c:310:ASP:HA	1:c:315:TYR:HA	2.00	0.43
1:e:64:ASP:HA	1:e:92:PRO:HB3	2.00	0.43
1:e:310:ASP:HA	1:e:315:TYR:HA	2.00	0.43
1:e:499:TYR:CE2	1:h:205:ASN:HB3	2.53	0.43
1:f:102:CYS:HA	1:f:410:TYR:CZ	2.54	0.43
1:g:119:LYS:HA	1:g:244:VAL:O	2.18	0.43
1:j:37:TRP:CZ3	1:j:55:HIS:CE1	3.06	0.43
1:j:65:MET:HE3	1:j:65:MET:HB2	1.92	0.43
1:j:83:LYS:HD3	1:j:83:LYS:HA	1.78	0.43
1:j:225:LEU:HD22	1:j:229:ASN:CB	2.48	0.43
1:j:414:ILE:HG21	1:j:471:MET:HE1	1.99	0.43
1:j:458:TYR:CZ	1:l:183:ILE:HD12	2.53	0.43
1:j:500:VAL:CG2	1:j:513:HIS:HB3	2.49	0.43
1:k:37:TRP:CZ3	1:k:55:HIS:CE1	3.06	0.43
1:k:114:ILE:HD11	1:k:524:THR:HG22	2.01	0.43
1:k:205:ASN:HB3	1:w:499:TYR:CE2	2.53	0.43
1:m:502:MET:HE2	1:r:484:ASN:ND2	2.27	0.43
1:n:326:ARG:HG3	1:n:334:TYR:HB3	2.00	0.43
1:o:56:CYS:O	1:o:464:THR:HA	2.19	0.43
1:o:414:ILE:HG21	1:o:471:MET:HE1	1.99	0.43
1:o:504:ASN:OD1	1:o:508:GLN:N	2.46	0.43
1:p:75:GLY:HA3	1:p:83:LYS:HD2	1.99	0.43
1:q:277:HIS:HA	1:r:84:THR:HB	2.01	0.43
1:q:327:ALA:H	1:q:377:ARG:NH2	2.14	0.43
1:r:324:ILE:HB	1:r:376:ALA:O	2.18	0.43
1:s:64:ASP:HA	1:s:92:PRO:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:119:LYS:HA	1:s:244:VAL:O	2.18	0.43
1:u:37:TRP:CZ3	1:u:55:HIS:CE1	3.06	0.43
1:u:119:LYS:HA	1:u:244:VAL:O	2.18	0.43
1:v:298:ALA:HB3	1:v:301:ALA:HB2	1.99	0.43
1:x:64:ASP:HA	1:x:92:PRO:HB3	2.01	0.43
1:x:326:ARG:HG3	1:x:334:TYR:HB3	2.00	0.43
1:1:56:CYS:O	1:1:464:THR:HA	2.19	0.43
1:1:286:LEU:HD23	1:1:286:LEU:N	2.33	0.43
1:2:225:LEU:HD22	1:2:229:ASN:CB	2.48	0.43
1:2:310:ASP:HA	1:2:315:TYR:HA	2.00	0.43
1:2:324:ILE:HB	1:2:376:ALA:O	2.18	0.43
1:2:326:ARG:HG3	1:2:334:TYR:HB3	2.00	0.43
1:3:94:ASN:HB3	1:3:186:LEU:HB3	1.99	0.43
1:3:114:ILE:HD11	1:3:524:THR:HG22	2.01	0.43
1:3:183:ILE:HD13	1:8:451:PRO:HB3	2.00	0.43
1:4:414:ILE:HG21	1:4:471:MET:HE1	1.99	0.43
1:4:511:LEU:HD12	1:4:511:LEU:HA	1.73	0.43
1:5:84:THR:HB	1:7:277:HIS:HA	2.01	0.43
1:5:102:CYS:HA	1:5:410:TYR:CZ	2.54	0.43
1:6:34:THR:CG2	1:6:228:GLY:O	2.65	0.43
1:6:310:ASP:HA	1:6:315:TYR:HA	2.00	0.43
1:6:326:ARG:HG3	1:6:334:TYR:HB3	2.00	0.43
1:7:56:CYS:O	1:7:464:THR:HA	2.19	0.43
1:7:310:ASP:HA	1:7:315:TYR:HA	2.00	0.43
1:A:261:TYR:CE1	1:G:352:LYS:HA	2.54	0.43
1:A:296:GLY:O	1:I:269:ARG:CD	2.66	0.43
1:B:56:CYS:O	1:B:464:THR:HA	2.19	0.43
1:B:114:ILE:HD11	1:B:524:THR:HG22	2.01	0.43
1:B:225:LEU:HD22	1:B:229:ASN:CB	2.48	0.43
1:B:339:TRP:CZ2	1:L:272:ASP:HB2	2.54	0.43
1:D:37:TRP:CZ3	1:D:55:HIS:CE1	3.06	0.43
1:D:205:ASN:HB3	1:E:499:TYR:CE2	2.53	0.43
1:D:324:ILE:HB	1:D:376:ALA:O	2.18	0.43
1:E:56:CYS:O	1:E:464:THR:HA	2.19	0.43
1:E:248:ARG:HH11	1:E:370:ARG:HA	1.84	0.43
1:G:98:TYR:CE2	1:G:127:ILE:HD11	2.54	0.43
1:H:102:CYS:HA	1:H:410:TYR:CZ	2.54	0.43
1:I:119:LYS:HA	1:I:244:VAL:O	2.18	0.43
1:J:102:CYS:HA	1:J:410:TYR:CZ	2.54	0.43
1:J:324:ILE:HB	1:J:376:ALA:O	2.18	0.43
1:K:119:LYS:HA	1:K:244:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:37:TRP:CZ3	1:M:55:HIS:CE1	3.06	0.43
1:M:298:ALA:HB3	1:M:301:ALA:HB2	1.99	0.43
1:N:56:CYS:O	1:N:464:THR:HA	2.19	0.43
1:O:283:GLN:HA	1:O:284:PRO:HD3	1.70	0.43
1:P:414:ILE:HG21	1:P:471:MET:HE1	1.99	0.43
1:P:500:VAL:CG2	1:P:513:HIS:HB3	2.49	0.43
1:Q:56:CYS:O	1:Q:464:THR:HA	2.19	0.43
1:Q:64:ASP:HA	1:Q:92:PRO:HB3	2.01	0.43
1:Q:75:GLY:HA3	1:Q:83:LYS:HD2	1.99	0.43
1:Q:500:VAL:CG2	1:Q:513:HIS:HB3	2.49	0.43
1:R:98:TYR:CE2	1:R:127:ILE:HD11	2.54	0.43
1:S:64:ASP:HA	1:S:92:PRO:HB3	2.00	0.43
1:S:183:ILE:HD13	1:d:451:PRO:HB3	2.00	0.43
1:U:34:THR:HG1	1:U:131:ASN:H	1.61	0.43
1:U:64:ASP:HA	1:U:92:PRO:HB3	2.00	0.43
1:U:183:ILE:HD13	1:e:451:PRO:HB3	2.00	0.43
1:V:75:GLY:HA3	1:V:83:LYS:HD2	1.99	0.43
1:V:225:LEU:HD22	1:V:229:ASN:CB	2.48	0.43
1:V:337:THR:HG22	1:X:266:VAL:HG11	1.99	0.43
1:W:69:ILE:O	1:W:88:GLY:N	2.47	0.43
1:X:500:VAL:CG2	1:X:513:HIS:HB3	2.49	0.43
1:X:504:ASN:OD1	1:X:508:GLN:N	2.46	0.43
1:Y:119:LYS:HA	1:Y:244:VAL:O	2.18	0.43
1:Y:183:ILE:HD13	1:4:451:PRO:HB3	2.00	0.43
1:Z:96:ILE:HD13	1:Z:186:LEU:HG	1.99	0.43
1:Z:98:TYR:CE2	1:Z:127:ILE:HD11	2.54	0.43
1:Z:451:PRO:HB3	1:a:183:ILE:HD13	2.00	0.43
1:Z:458:TYR:CZ	1:a:183:ILE:HD12	2.53	0.43
1:a:326:ARG:HG3	1:a:334:TYR:HB3	2.00	0.43
1:b:64:ASP:HA	1:b:92:PRO:HB3	2.00	0.43
1:b:102:CYS:HA	1:b:410:TYR:CZ	2.54	0.43
1:b:119:LYS:HA	1:b:244:VAL:O	2.18	0.43
1:c:119:LYS:HA	1:c:244:VAL:O	2.18	0.43
1:d:326:ARG:HG3	1:d:334:TYR:HB3	2.01	0.43
1:f:56:CYS:O	1:f:464:THR:HA	2.19	0.43
1:f:64:ASP:HA	1:f:92:PRO:HB3	2.00	0.43
1:h:37:TRP:CZ3	1:h:55:HIS:CE1	3.06	0.43
1:h:106:SER:HB3	1:k:483:TRP:CH2	2.54	0.43
1:h:293:MET:HB3	1:h:333:GLU:CG	2.49	0.43
1:j:324:ILE:HB	1:j:376:ALA:O	2.18	0.43
1:j:502:MET:HE2	1:w:484:ASN:ND2	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:326:ARG:HG3	1:k:334:TYR:HB3	2.00	0.43
1:l:69:ILE:O	1:l:88:GLY:N	2.47	0.43
1:m:483:TRP:CH2	1:r:106:SER:HB3	2.54	0.43
1:n:98:TYR:CE2	1:n:127:ILE:HD11	2.54	0.43
1:n:451:PRO:HB3	1:r:183:ILE:HD13	2.00	0.43
1:n:458:TYR:CZ	1:r:183:ILE:HD12	2.53	0.43
1:o:64:ASP:HA	1:o:92:PRO:HB3	2.01	0.43
1:o:119:LYS:HA	1:o:244:VAL:O	2.18	0.43
1:o:183:ILE:HD13	1:7:451:PRO:HB3	2.00	0.43
1:o:298:ALA:HB3	1:o:301:ALA:HB2	1.99	0.43
1:o:327:ALA:H	1:o:377:ARG:NH2	2.14	0.43
1:o:500:VAL:CG2	1:o:513:HIS:HB3	2.49	0.43
1:p:483:TRP:CH2	1:s:106:SER:HB3	2.54	0.43
1:s:298:ALA:HB3	1:s:301:ALA:HB2	1.99	0.43
1:t:98:TYR:CE2	1:t:127:ILE:HD11	2.54	0.43
1:t:249:SER:O	1:t:373:GLU:CG	2.54	0.43
1:t:326:ARG:HG3	1:t:334:TYR:HB3	2.01	0.43
1:u:102:CYS:HA	1:u:410:TYR:CZ	2.54	0.43
1:u:106:SER:HB3	1:1:483:TRP:CH2	2.54	0.43
1:w:37:TRP:CZ3	1:w:55:HIS:CE1	3.06	0.43
1:w:56:CYS:O	1:w:464:THR:HA	2.19	0.43
1:w:248:ARG:HH11	1:w:370:ARG:HA	1.84	0.43
1:w:326:ARG:HG3	1:w:334:TYR:HB3	2.00	0.43
1:w:414:ILE:HG21	1:w:471:MET:HE1	1.99	0.43
1:x:56:CYS:O	1:x:464:THR:HA	2.19	0.43
1:z:272:ASP:HB2	1:1:339:TRP:CZ2	2.54	0.43
1:z:451:PRO:HB3	1:4:183:ILE:HD13	2.00	0.43
1:1:114:ILE:HD11	1:1:524:THR:HG22	2.01	0.43
1:1:283:GLN:HA	1:1:284:PRO:HD3	1.70	0.43
1:1:326:ARG:HG3	1:1:334:TYR:HB3	2.00	0.43
1:3:84:THR:HB	1:4:277:HIS:HA	2.01	0.43
1:3:98:TYR:CE2	1:3:127:ILE:HD11	2.54	0.43
1:3:326:ARG:HG3	1:3:334:TYR:HB3	2.01	0.43
1:6:83:LYS:HD3	1:6:83:LYS:HA	1.78	0.43
1:6:286:LEU:HD23	1:6:286:LEU:N	2.33	0.43
1:8:98:TYR:CE2	1:8:127:ILE:HD11	2.54	0.43
1:8:248:ARG:HH11	1:8:370:ARG:HA	1.84	0.43
1:A:114:ILE:HD11	1:A:524:THR:HG22	2.01	0.43
1:A:500:VAL:CG2	1:A:513:HIS:HB3	2.49	0.43
1:B:286:LEU:HD23	1:B:286:LEU:N	2.33	0.43
1:B:483:TRP:CH2	1:I:106:SER:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:LYS:HA	1:C:244:VAL:O	2.18	0.43
1:D:326:ARG:HG3	1:D:334:TYR:HB3	2.00	0.43
1:E:37:TRP:CZ3	1:E:55:HIS:CE1	3.06	0.43
1:E:326:ARG:HG3	1:E:334:TYR:HB3	2.00	0.43
1:E:483:TRP:CH2	1:P:106:SER:HB3	2.54	0.43
1:F:77:VAL:O	1:Q:277:HIS:CE1	2.67	0.43
1:F:98:TYR:CE2	1:F:127:ILE:HD11	2.54	0.43
1:G:310:ASP:HA	1:G:315:TYR:HA	2.00	0.43
1:I:343:THR:HB	1:I:508:GLN:HB3	2.01	0.43
1:J:268:LEU:HD11	1:L:317:GLY:HA3	2.01	0.43
1:J:277:HIS:HA	1:L:84:THR:HB	2.01	0.43
1:K:183:ILE:HD12	1:L:458:TYR:CZ	2.53	0.43
1:K:183:ILE:HD13	1:L:451:PRO:HB3	2.00	0.43
1:K:324:ILE:HB	1:K:376:ALA:O	2.18	0.43
1:L:137:LYS:HE2	1:L:137:LYS:HB3	1.73	0.43
1:M:183:ILE:HD13	1:N:451:PRO:HB3	2.00	0.43
1:M:286:LEU:HD23	1:M:286:LEU:N	2.33	0.43
1:M:293:MET:HB3	1:M:333:GLU:CG	2.49	0.43
1:M:327:ALA:H	1:M:377:ARG:NH2	2.14	0.43
1:M:500:VAL:CG2	1:M:513:HIS:HB3	2.49	0.43
1:N:298:ALA:HB3	1:N:301:ALA:HB2	1.99	0.43
1:O:114:ILE:HD11	1:O:524:THR:HG22	2.01	0.43
1:P:293:MET:HB3	1:P:333:GLU:CG	2.49	0.43
1:Q:326:ARG:HG3	1:Q:334:TYR:HB3	2.00	0.43
1:Q:343:THR:HB	1:Q:508:GLN:HB3	2.01	0.43
1:R:205:ASN:HB3	1:V:499:TYR:CE2	2.53	0.43
1:R:272:ASP:HB2	1:S:339:TRP:CZ2	2.54	0.43
1:R:327:ALA:H	1:R:377:ARG:NH2	2.14	0.43
1:S:114:ILE:HD11	1:S:524:THR:HG22	2.01	0.43
1:S:183:ILE:HD12	1:d:458:TYR:CZ	2.53	0.43
1:S:293:MET:HB3	1:S:333:GLU:CG	2.49	0.43
1:S:324:ILE:HB	1:S:376:ALA:O	2.18	0.43
1:T:119:LYS:HA	1:T:244:VAL:O	2.18	0.43
1:T:293:MET:HB3	1:T:333:GLU:CG	2.49	0.43
1:V:339:TRP:CZ2	1:X:272:ASP:HB2	2.54	0.43
1:W:106:SER:HB3	1:X:483:TRP:CH2	2.54	0.43
1:W:272:ASP:HB2	1:Y:339:TRP:CZ2	2.54	0.43
1:W:326:ARG:HG3	1:W:334:TYR:HB3	2.00	0.43
1:Z:248:ARG:HH11	1:Z:370:ARG:HA	1.84	0.43
1:a:98:TYR:CE2	1:a:127:ILE:HD11	2.54	0.43
1:a:248:ARG:HH11	1:a:370:ARG:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:40:ASN:HB3	1:o:221:PRO:HD3	2.01	0.43
1:b:248:ARG:HH11	1:b:370:ARG:HA	1.84	0.43
1:b:293:MET:HB3	1:b:333:GLU:CG	2.49	0.43
1:c:248:ARG:HH11	1:c:370:ARG:HA	1.84	0.43
1:c:414:ILE:HG21	1:c:471:MET:HE1	1.99	0.43
1:c:451:PRO:HB3	1:s:183:ILE:HD13	2.00	0.43
1:d:98:TYR:CE2	1:d:127:ILE:HD11	2.54	0.43
1:e:102:CYS:HA	1:e:410:TYR:CZ	2.54	0.43
1:f:84:THR:HB	1:g:277:HIS:HA	2.01	0.43
1:f:286:LEU:N	1:f:286:LEU:HD23	2.33	0.43
1:f:293:MET:HB3	1:f:333:GLU:CG	2.49	0.43
1:g:64:ASP:HA	1:g:92:PRO:HB3	2.00	0.43
1:g:221:PRO:HD3	1:k:40:ASN:HB3	2.01	0.43
1:g:326:ARG:HG3	1:g:334:TYR:HB3	2.00	0.43
1:h:114:ILE:HD13	1:h:114:ILE:HA	1.75	0.43
1:h:183:ILE:HD12	1:i:458:TYR:CZ	2.53	0.43
1:h:286:LEU:HD23	1:h:286:LEU:N	2.33	0.43
1:h:500:VAL:CG2	1:h:513:HIS:HB3	2.49	0.43
1:i:56:CYS:O	1:i:464:THR:HA	2.19	0.43
1:i:298:ALA:HB3	1:i:301:ALA:HB2	1.99	0.43
1:i:326:ARG:HG3	1:i:334:TYR:HB3	2.00	0.43
1:j:114:ILE:HD11	1:j:524:THR:HG22	2.01	0.43
1:j:293:MET:HB3	1:j:333:GLU:CG	2.49	0.43
1:m:119:LYS:HA	1:m:244:VAL:O	2.18	0.43
1:m:248:ARG:HH11	1:m:370:ARG:HA	1.84	0.43
1:m:310:ASP:HA	1:m:315:TYR:HA	2.00	0.43
1:o:266:VAL:HG11	1:p:337:THR:HG22	1.99	0.43
1:o:272:ASP:HB2	1:p:339:TRP:CZ2	2.54	0.43
1:o:483:TRP:CH2	1:6:106:SER:HB3	2.54	0.43
1:p:183:ILE:HD13	1:q:451:PRO:HB3	2.00	0.43
1:p:324:ILE:HB	1:p:376:ALA:O	2.18	0.43
1:q:98:TYR:CE2	1:q:127:ILE:HD11	2.54	0.43
1:q:272:ASP:HB2	1:r:339:TRP:CZ2	2.54	0.43
1:r:64:ASP:HA	1:r:92:PRO:HB3	2.00	0.43
1:r:293:MET:HB3	1:r:333:GLU:CG	2.49	0.43
1:t:285:TRP:CZ3	1:u:416:GLN:NE2	2.86	0.43
1:u:343:THR:HB	1:u:508:GLN:HB3	2.01	0.43
1:u:458:TYR:CZ	1:5:183:ILE:HD12	2.53	0.43
1:w:75:GLY:HA3	1:w:83:LYS:HD2	1.99	0.43
1:x:75:GLY:HA3	1:x:83:LYS:HD2	1.99	0.43
1:x:500:VAL:CG2	1:x:513:HIS:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:98:TYR:CE2	1:y:127:ILE:HD11	2.54	0.43
1:y:119:LYS:HA	1:y:244:VAL:O	2.18	0.43
1:y:248:ARG:HH11	1:y:370:ARG:HA	1.84	0.43
1:z:64:ASP:HA	1:z:92:PRO:HB3	2.00	0.43
1:z:84:THR:HB	1:2:277:HIS:HA	2.01	0.43
1:2:102:CYS:HA	1:2:410:TYR:CZ	2.54	0.43
1:3:225:LEU:HD22	1:3:229:ASN:CB	2.48	0.43
1:3:293:MET:HB3	1:3:333:GLU:CG	2.49	0.43
1:4:75:GLY:HA3	1:4:83:LYS:HD2	1.99	0.43
1:4:324:ILE:HB	1:4:376:ALA:O	2.18	0.43
1:5:248:ARG:HH11	1:5:370:ARG:HA	1.84	0.43
1:5:500:VAL:CG2	1:5:513:HIS:HB3	2.49	0.43
1:6:64:ASP:HA	1:6:92:PRO:HB3	2.01	0.43
1:6:119:LYS:HA	1:6:244:VAL:O	2.18	0.43
1:6:272:ASP:HB2	1:7:339:TRP:CZ2	2.54	0.43
1:7:137:LYS:HE2	1:7:137:LYS:HB3	1.73	0.43
1:B:205:ASN:HB3	1:C:499:TYR:CE2	2.53	0.43
1:B:277:HIS:HA	1:J:84:THR:HB	2.01	0.43
1:C:64:ASP:HA	1:C:92:PRO:HB3	2.01	0.43
1:C:221:PRO:HD3	1:D:40:ASN:HB3	2.01	0.43
1:C:326:ARG:HG3	1:C:334:TYR:HB3	2.00	0.43
1:D:283:GLN:HA	1:D:284:PRO:HD3	1.70	0.43
1:E:84:THR:HB	1:F:277:HIS:HA	2.01	0.43
1:F:293:MET:HB3	1:F:333:GLU:CG	2.49	0.43
1:F:499:TYR:CE2	1:G:205:ASN:HB3	2.53	0.43
1:G:114:ILE:HD11	1:G:524:THR:HG22	2.01	0.43
1:G:249:SER:O	1:G:373:GLU:CG	2.54	0.43
1:G:483:TRP:CH2	1:H:106:SER:HB3	2.54	0.43
1:H:286:LEU:N	1:H:286:LEU:HD23	2.33	0.43
1:H:500:VAL:CG2	1:H:513:HIS:HB3	2.49	0.43
1:K:56:CYS:O	1:K:464:THR:HA	2.19	0.43
1:K:75:GLY:HA3	1:K:83:LYS:HD2	1.99	0.43
1:K:102:CYS:HA	1:K:410:TYR:CZ	2.54	0.43
1:L:64:ASP:HA	1:L:92:PRO:HB3	2.00	0.43
1:M:39:CYS:HB2	1:N:219:GLU:CA	2.34	0.43
1:M:98:TYR:CE2	1:M:127:ILE:HD11	2.54	0.43
1:M:221:PRO:HD3	1:c:40:ASN:HB3	2.01	0.43
1:N:326:ARG:HG3	1:N:334:TYR:HB3	2.00	0.43
1:Q:183:ILE:HD13	1:S:451:PRO:HB3	2.00	0.43
1:Q:324:ILE:HB	1:Q:376:ALA:O	2.18	0.43
1:S:114:ILE:HD13	1:S:114:ILE:HA	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:56:CYS:O	1:T:464:THR:HA	2.19	0.43
1:T:84:THR:HB	1:l:277:HIS:HA	2.01	0.43
1:T:326:ARG:HG3	1:T:334:TYR:HB3	2.00	0.43
1:T:500:VAL:CG2	1:T:513:HIS:HB3	2.49	0.43
1:U:102:CYS:HA	1:U:410:TYR:CZ	2.54	0.43
1:U:483:TRP:CH2	1:V:106:SER:HB3	2.54	0.43
1:V:56:CYS:O	1:V:464:THR:HA	2.19	0.43
1:V:98:TYR:CE2	1:V:127:ILE:HD11	2.54	0.43
1:V:268:LEU:HD11	1:e:317:GLY:HA3	2.01	0.43
1:V:272:ASP:HB2	1:e:339:TRP:CZ2	2.54	0.43
1:W:114:ILE:HD11	1:W:524:THR:HG22	2.01	0.43
1:W:277:HIS:HA	1:Y:84:THR:HB	2.01	0.43
1:X:64:ASP:HA	1:X:92:PRO:HB3	2.01	0.43
1:X:221:PRO:HD3	1:f:40:ASN:HB3	2.01	0.43
1:X:298:ALA:HB3	1:X:301:ALA:HB2	1.99	0.43
1:X:327:ALA:H	1:X:377:ARG:NH2	2.14	0.43
1:Z:294:THR:HB	1:3:383:ALA:HB2	2.01	0.43
1:Z:326:ARG:HG3	1:Z:334:TYR:HB3	2.00	0.43
1:a:225:LEU:HD22	1:a:229:ASN:CB	2.48	0.43
1:a:293:MET:HB3	1:a:333:GLU:CG	2.49	0.43
1:b:75:GLY:HA3	1:b:83:LYS:HD2	1.99	0.43
1:b:500:VAL:CG2	1:b:513:HIS:HB3	2.49	0.43
1:c:102:CYS:HA	1:c:410:TYR:CZ	2.54	0.43
1:c:277:HIS:HA	1:o:84:THR:HB	2.01	0.43
1:c:317:GLY:HA3	1:p:268:LEU:HD11	2.01	0.43
1:c:339:TRP:CZ2	1:p:272:ASP:HB2	2.54	0.43
1:e:40:ASN:HB3	1:h:221:PRO:HD3	2.01	0.43
1:e:248:ARG:HH11	1:e:370:ARG:HA	1.84	0.43
1:e:414:ILE:HG21	1:e:471:MET:HE1	1.99	0.43
1:f:75:GLY:HA3	1:f:83:LYS:HD2	1.99	0.43
1:f:248:ARG:HH11	1:f:370:ARG:HA	1.84	0.43
1:f:500:VAL:CG2	1:f:513:HIS:HB3	2.49	0.43
1:g:340:THR:OG1	1:g:512:ASN:ND2	2.30	0.43
1:g:499:TYR:CE2	1:1:205:ASN:HB3	2.53	0.43
1:h:298:ALA:HB3	1:h:301:ALA:HB2	1.99	0.43
1:j:106:SER:HB3	1:w:483:TRP:CH2	2.54	0.43
1:k:286:LEU:HD23	1:k:286:LEU:N	2.33	0.43
1:k:451:PRO:HB3	1:w:183:ILE:HD13	2.00	0.43
1:l:114:ILE:HD11	1:l:524:THR:HG22	2.01	0.43
1:m:56:CYS:O	1:m:464:THR:HA	2.19	0.43
1:m:293:MET:HB3	1:m:333:GLU:CG	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:326:ARG:HG3	1:m:334:TYR:HB3	2.00	0.43
1:m:500:VAL:CG2	1:m:513:HIS:HB3	2.49	0.43
1:p:98:TYR:CE2	1:p:127:ILE:HD11	2.54	0.43
1:p:106:SER:HB3	1:s:483:TRP:CH2	2.54	0.43
1:p:499:TYR:CE2	1:q:205:ASN:HB3	2.53	0.43
1:p:504:ASN:OD1	1:p:508:GLN:N	2.46	0.43
1:r:114:ILE:HD11	1:r:524:THR:HG22	2.01	0.43
1:s:511:LEU:HD12	1:s:511:LEU:HA	1.73	0.43
1:t:310:ASP:HA	1:t:315:TYR:HA	2.00	0.43
1:t:343:THR:HB	1:t:508:GLN:HB3	2.01	0.43
1:u:283:GLN:HA	1:u:284:PRO:HD3	1.70	0.43
1:v:114:ILE:HD11	1:v:524:THR:HG22	2.01	0.43
1:v:225:LEU:HD22	1:v:229:ASN:CB	2.48	0.43
1:v:499:TYR:CE2	1:w:205:ASN:HB3	2.53	0.43
1:v:500:VAL:CG2	1:v:513:HIS:HB3	2.49	0.43
1:x:279:SER:HG	1:y:314:SER:HB3	1.81	0.43
1:x:324:ILE:HB	1:x:376:ALA:O	2.18	0.43
1:x:343:THR:HB	1:x:508:GLN:HB3	2.01	0.43
1:y:114:ILE:HD11	1:y:524:THR:HG22	2.01	0.43
1:y:310:ASP:HA	1:y:315:TYR:HA	2.00	0.43
1:z:458:TYR:CZ	1:4:183:ILE:HD12	2.53	0.43
1:1:225:LEU:HD22	1:1:229:ASN:CB	2.48	0.43
1:3:248:ARG:HH11	1:3:370:ARG:HA	1.84	0.43
1:4:56:CYS:O	1:4:464:THR:HA	2.19	0.43
1:4:119:LYS:HA	1:4:244:VAL:O	2.18	0.43
1:6:277:HIS:HA	1:7:84:THR:HB	2.01	0.43
1:7:102:CYS:HA	1:7:410:TYR:CZ	2.54	0.43
1:8:114:ILE:HD11	1:8:524:THR:HG22	2.01	0.43
1:B:98:TYR:CE2	1:B:127:ILE:HD11	2.54	0.43
1:B:343:THR:HB	1:B:508:GLN:HB3	2.01	0.43
1:C:56:CYS:O	1:C:464:THR:HA	2.19	0.43
1:C:114:ILE:HD11	1:C:524:THR:HG22	2.01	0.43
1:C:277:HIS:HA	1:b:84:THR:HB	2.01	0.43
1:D:266:VAL:HG11	1:N:337:THR:HG22	1.99	0.43
1:D:286:LEU:N	1:D:286:LEU:HD23	2.33	0.43
1:D:293:MET:HB3	1:D:333:GLU:CG	2.49	0.43
1:D:343:THR:HB	1:D:508:GLN:HB3	2.01	0.43
1:D:483:TRP:CH2	1:M:106:SER:HB3	2.54	0.43
1:E:102:CYS:HA	1:E:410:TYR:CZ	2.54	0.43
1:F:114:ILE:HD11	1:F:524:THR:HG22	2.01	0.43
1:F:119:LYS:HA	1:F:244:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:248:ARG:HH11	1:F:370:ARG:HA	1.84	0.43
1:F:343:THR:HB	1:F:508:GLN:HB3	2.01	0.43
1:G:248:ARG:HH11	1:G:370:ARG:HA	1.84	0.43
1:G:343:THR:HB	1:G:508:GLN:HB3	2.01	0.43
1:G:499:TYR:CE2	1:W:205:ASN:HB3	2.53	0.43
1:H:205:ASN:HB3	1:Z:499:TYR:CZ	2.54	0.43
1:I:98:TYR:CE2	1:I:127:ILE:HD11	2.54	0.43
1:J:272:ASP:HB2	1:L:339:TRP:CZ2	2.54	0.43
1:J:343:THR:HB	1:J:508:GLN:HB3	2.01	0.43
1:J:483:TRP:CH2	1:K:106:SER:HB3	2.54	0.43
1:L:310:ASP:HA	1:L:315:TYR:HA	2.00	0.43
1:M:183:ILE:HD12	1:N:458:TYR:CZ	2.53	0.43
1:N:40:ASN:HB3	1:m:221:PRO:HD3	2.01	0.43
1:N:98:TYR:CE2	1:N:127:ILE:HD11	2.54	0.43
1:N:225:LEU:HD22	1:N:229:ASN:CB	2.48	0.43
1:O:205:ASN:HB3	1:d:499:TYR:CE2	2.53	0.43
1:O:272:ASP:HB2	1:m:339:TRP:CZ2	2.54	0.43
1:O:294:THR:HB	1:n:383:ALA:CB	2.49	0.43
1:O:343:THR:HB	1:O:508:GLN:HB3	2.01	0.43
1:P:114:ILE:HD11	1:P:524:THR:HG22	2.01	0.43
1:P:343:THR:HB	1:P:508:GLN:HB3	2.01	0.43
1:R:102:CYS:HA	1:R:410:TYR:CZ	2.54	0.43
1:R:500:VAL:CG2	1:R:513:HIS:HB3	2.49	0.43
1:T:221:PRO:HD3	1:i:40:ASN:HB3	2.01	0.43
1:T:277:HIS:HA	1:d:84:THR:HB	2.01	0.43
1:U:326:ARG:HG3	1:U:334:TYR:HB3	2.01	0.43
1:U:500:VAL:CG2	1:U:513:HIS:HB3	2.49	0.43
1:V:324:ILE:HB	1:V:376:ALA:O	2.18	0.43
1:V:504:ASN:OD1	1:V:508:GLN:N	2.46	0.43
1:W:293:MET:HB3	1:W:333:GLU:CG	2.49	0.43
1:X:84:THR:HB	1:e:277:HIS:HA	2.01	0.43
1:X:286:LEU:HD23	1:X:286:LEU:N	2.33	0.43
1:Y:102:CYS:HA	1:Y:410:TYR:CZ	2.54	0.43
1:Z:114:ILE:HD11	1:Z:524:THR:HG22	2.01	0.43
1:b:286:LEU:N	1:b:286:LEU:HD23	2.33	0.43
1:b:484:ASN:ND2	1:c:502:MET:HE2	2.27	0.43
1:c:326:ARG:HG3	1:c:334:TYR:HB3	2.00	0.43
1:d:286:LEU:HD23	1:d:286:LEU:N	2.33	0.43
1:e:326:ARG:HG3	1:e:334:TYR:HB3	2.00	0.43
1:e:484:ASN:ND2	1:f:502:MET:HE2	2.27	0.43
1:f:64:ASP:OD1	1:f:446:LYS:NZ	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:39:CYS:HB2	1:1:219:GLU:CA	2.34	0.43
1:g:286:LEU:N	1:g:286:LEU:HD23	2.33	0.43
1:g:339:TRP:CZ2	1:h:272:ASP:HB2	2.54	0.43
1:h:183:ILE:HD13	1:i:451:PRO:HB3	2.00	0.43
1:i:98:TYR:CE2	1:i:127:ILE:HD11	2.54	0.43
1:i:225:LEU:HD22	1:i:229:ASN:CB	2.48	0.43
1:i:340:THR:OG1	1:i:512:ASN:ND2	2.30	0.43
1:j:249:SER:O	1:j:373:GLU:CG	2.54	0.43
1:j:272:ASP:HB2	1:k:339:TRP:CZ2	2.54	0.43
1:j:343:THR:HB	1:j:508:GLN:HB3	2.01	0.43
1:k:293:MET:HB3	1:k:333:GLU:CG	2.49	0.43
1:k:324:ILE:HB	1:k:376:ALA:O	2.18	0.43
1:k:343:THR:HB	1:k:508:GLN:HB3	2.01	0.43
1:l:225:LEU:HD22	1:l:229:ASN:CB	2.48	0.43
1:n:310:ASP:HA	1:n:315:TYR:HA	2.00	0.43
1:o:248:ARG:HH11	1:o:370:ARG:HA	1.84	0.43
1:o:286:LEU:HD23	1:o:286:LEU:N	2.33	0.43
1:p:56:CYS:O	1:p:464:THR:HA	2.19	0.43
1:q:102:CYS:HA	1:q:410:TYR:CZ	2.54	0.43
1:q:483:TRP:CH2	1:x:106:SER:HB3	2.54	0.43
1:s:34:THR:HG1	1:s:131:ASN:H	1.61	0.43
1:s:102:CYS:HA	1:s:410:TYR:CZ	2.54	0.43
1:s:326:ARG:HG3	1:s:334:TYR:HB3	2.01	0.43
1:t:261:TYR:CE1	1:u:352:LYS:HA	2.53	0.43
1:t:272:ASP:HB2	1:u:339:TRP:CZ2	2.53	0.43
1:t:458:TYR:CE1	1:y:183:ILE:HD12	2.48	0.43
1:u:98:TYR:CE2	1:u:127:ILE:HD11	2.54	0.43
1:v:56:CYS:O	1:v:464:THR:HA	2.19	0.43
1:x:310:ASP:HA	1:x:315:TYR:HA	2.00	0.43
1:y:293:MET:HB3	1:y:333:GLU:CG	2.49	0.43
1:z:317:GLY:HA3	1:2:268:LEU:HD11	2.01	0.43
1:1:98:TYR:CE2	1:1:127:ILE:HD11	2.54	0.43
1:1:277:HIS:HA	1:2:84:THR:HB	2.01	0.43
1:1:279:SER:HG	1:2:314:SER:HB3	1.80	0.43
1:1:343:THR:HB	1:1:508:GLN:HB3	2.01	0.43
1:2:98:TYR:CE2	1:2:127:ILE:HD11	2.54	0.43
1:2:248:ARG:HH11	1:2:370:ARG:HA	1.84	0.43
1:2:500:VAL:CG2	1:2:513:HIS:HB3	2.49	0.43
1:4:102:CYS:HA	1:4:410:TYR:CZ	2.54	0.43
1:4:500:VAL:CG2	1:4:513:HIS:HB3	2.49	0.43
1:5:205:ASN:HB3	1:8:499:TYR:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:221:PRO:HD3	1:8:40:ASN:HB3	2.01	0.43
1:5:286:LEU:O	1:5:402:ILE:N	2.41	0.43
1:5:286:LEU:HD23	1:5:286:LEU:N	2.33	0.43
1:6:114:ILE:HD11	1:6:524:THR:HG22	2.01	0.43
1:6:293:MET:HB3	1:6:333:GLU:CG	2.49	0.43
1:A:56:CYS:O	1:A:464:THR:HA	2.19	0.43
1:A:65:MET:HE3	1:A:65:MET:HB2	1.92	0.43
1:A:225:LEU:HD22	1:A:229:ASN:CB	2.48	0.43
1:A:458:TYR:CZ	1:B:183:ILE:CD1	3.00	0.43
1:B:96:ILE:HD13	1:B:186:LEU:HG	1.99	0.43
1:C:102:CYS:HA	1:C:410:TYR:CZ	2.54	0.43
1:C:339:TRP:CZ2	1:M:272:ASP:HB2	2.54	0.43
1:D:277:HIS:HA	1:N:84:THR:HB	2.01	0.43
1:D:339:TRP:CZ2	1:P:272:ASP:HB2	2.54	0.43
1:E:268:LEU:HD11	1:Q:317:GLY:HA3	2.01	0.43
1:F:56:CYS:O	1:F:464:THR:HA	2.19	0.43
1:F:83:LYS:HD3	1:F:83:LYS:HA	1.78	0.43
1:F:310:ASP:HA	1:F:315:TYR:HA	2.00	0.43
1:H:65:MET:HE3	1:H:65:MET:HB2	1.92	0.43
1:H:293:MET:HB3	1:H:333:GLU:CG	2.49	0.43
1:J:64:ASP:HA	1:J:92:PRO:HB3	2.00	0.43
1:J:69:ILE:O	1:J:88:GLY:N	2.47	0.43
1:J:98:TYR:CE2	1:J:127:ILE:HD11	2.54	0.43
1:J:248:ARG:HH11	1:J:370:ARG:HA	1.84	0.43
1:J:500:VAL:CG2	1:J:513:HIS:HB3	2.49	0.43
1:K:500:VAL:CG2	1:K:513:HIS:HB3	2.49	0.43
1:M:248:ARG:HH11	1:M:370:ARG:HA	1.84	0.43
1:M:339:TRP:CZ2	1:b:272:ASP:HB2	2.54	0.43
1:O:102:CYS:HA	1:O:410:TYR:CZ	2.54	0.43
1:O:119:LYS:HA	1:O:244:VAL:O	2.18	0.43
1:O:225:LEU:HD22	1:O:229:ASN:CB	2.48	0.43
1:P:83:LYS:HD3	1:P:83:LYS:HA	1.78	0.43
1:P:248:ARG:HH11	1:P:370:ARG:HA	1.84	0.43
1:Q:106:SER:HB3	1:R:483:TRP:CH2	2.54	0.43
1:Q:114:ILE:HD11	1:Q:524:THR:HG22	2.01	0.43
1:Q:183:ILE:HD12	1:S:458:TYR:CE1	2.52	0.43
1:Q:310:ASP:HA	1:Q:315:TYR:HA	2.00	0.43
1:R:84:THR:HB	1:U:277:HIS:HA	2.01	0.43
1:R:225:LEU:HD22	1:R:229:ASN:CB	2.48	0.43
1:S:98:TYR:CE2	1:S:127:ILE:HD11	2.54	0.43
1:S:326:ARG:HG3	1:S:334:TYR:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:40:ASN:HB3	1:U:221:PRO:HD3	2.01	0.43
1:V:157:PHE:HB3	1:V:222:SER:HB3	2.01	0.43
1:V:286:LEU:N	1:V:286:LEU:HD23	2.33	0.43
1:V:286:LEU:O	1:V:402:ILE:N	2.41	0.43
1:V:293:MET:HB3	1:V:333:GLU:CG	2.49	0.43
1:W:119:LYS:HA	1:W:244:VAL:O	2.18	0.43
1:X:102:CYS:HA	1:X:410:TYR:CZ	2.54	0.43
1:X:114:ILE:HD13	1:X:114:ILE:HA	1.75	0.43
1:Y:75:GLY:HA3	1:Y:83:LYS:HD2	1.99	0.43
1:a:383:ALA:HB2	1:8:294:THR:HB	2.01	0.43
1:c:72:LYS:HA	1:c:207:LEU:HD11	2.01	0.43
1:d:310:ASP:HA	1:d:315:TYR:HA	2.00	0.43
1:d:383:ALA:CB	1:l:294:THR:HB	2.49	0.43
1:e:72:LYS:HA	1:e:207:LEU:HD11	2.01	0.43
1:f:205:ASN:HB3	1:z:499:TYR:CZ	2.54	0.43
1:f:339:TRP:CZ2	1:g:272:ASP:HB2	2.54	0.43
1:g:56:CYS:O	1:g:464:THR:HA	2.19	0.43
1:g:102:CYS:HA	1:g:410:TYR:CZ	2.54	0.43
1:g:114:ILE:HD11	1:g:524:THR:HG22	2.01	0.43
1:h:98:TYR:CE2	1:h:127:ILE:HD11	2.54	0.43
1:i:84:THR:HB	1:k:277:HIS:HA	2.01	0.43
1:k:98:TYR:CE2	1:k:127:ILE:HD11	2.54	0.43
1:l:102:CYS:HA	1:l:410:TYR:CZ	2.53	0.43
1:l:343:THR:HB	1:l:508:GLN:HB3	2.01	0.43
1:m:277:HIS:HA	1:n:84:THR:HB	2.01	0.43
1:o:102:CYS:HA	1:o:410:TYR:CZ	2.54	0.43
1:p:157:PHE:HB3	1:p:222:SER:HB3	2.01	0.43
1:p:293:MET:HB3	1:p:333:GLU:CG	2.49	0.43
1:q:84:THR:HB	1:s:277:HIS:HA	2.01	0.43
1:q:119:LYS:HA	1:q:244:VAL:O	2.18	0.43
1:q:225:LEU:HD22	1:q:229:ASN:CB	2.48	0.43
1:q:293:MET:HB3	1:q:333:GLU:CG	2.49	0.43
1:q:500:VAL:CG2	1:q:513:HIS:HB3	2.49	0.43
1:r:98:TYR:CE2	1:r:127:ILE:HD11	2.54	0.43
1:r:451:PRO:HB3	1:x:183:ILE:HD13	2.00	0.43
1:r:458:TYR:CE1	1:x:183:ILE:HD12	2.52	0.43
1:t:114:ILE:HD11	1:t:524:THR:HG22	2.01	0.43
1:t:248:ARG:HH11	1:t:370:ARG:HA	1.84	0.43
1:v:106:SER:HB3	1:y:483:TRP:CH2	2.54	0.43
1:v:483:TRP:CH2	1:y:106:SER:HB3	2.54	0.43
1:w:84:THR:HB	1:y:277:HIS:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:102:CYS:HA	1:w:410:TYR:CZ	2.54	0.43
1:w:272:ASP:HB2	1:x:339:TRP:CZ2	2.54	0.43
1:x:98:TYR:CE2	1:x:127:ILE:HD11	2.54	0.43
1:x:114:ILE:HD11	1:x:524:THR:HG22	2.01	0.43
1:x:277:HIS:CE1	1:y:77:VAL:O	2.67	0.43
1:y:56:CYS:O	1:y:464:THR:HA	2.19	0.43
1:z:310:ASP:HA	1:z:315:TYR:HA	2.00	0.43
1:z:339:TRP:CZ2	1:2:272:ASP:HB2	2.54	0.43
1:1:272:ASP:HB2	1:2:339:TRP:CZ2	2.54	0.43
1:2:64:ASP:HA	1:2:92:PRO:HB3	2.00	0.43
1:2:343:THR:HB	1:2:508:GLN:HB3	2.01	0.43
1:2:483:TRP:CH2	1:4:106:SER:HB3	2.54	0.43
1:3:83:LYS:HD3	1:3:83:LYS:HA	1.78	0.43
1:3:343:THR:HB	1:3:508:GLN:HB3	2.01	0.43
1:7:75:GLY:HA3	1:7:83:LYS:HD2	1.99	0.43
1:8:326:ARG:HG3	1:8:334:TYR:HB3	2.00	0.43
1:B:272:ASP:HB2	1:J:339:TRP:CZ2	2.54	0.42
1:C:272:ASP:HB2	1:b:339:TRP:CZ2	2.54	0.42
1:C:286:LEU:N	1:C:286:LEU:HD23	2.33	0.42
1:D:98:TYR:CE2	1:D:127:ILE:HD11	2.54	0.42
1:E:272:ASP:HB2	1:Q:339:TRP:CZ2	2.54	0.42
1:F:339:TRP:CZ2	1:Q:272:ASP:HB2	2.54	0.42
1:G:40:ASN:HB3	1:W:221:PRO:HD3	2.01	0.42
1:G:75:GLY:HA3	1:G:83:LYS:HD2	1.99	0.42
1:H:40:ASN:HB3	1:I:221:PRO:HD3	2.01	0.42
1:I:56:CYS:O	1:I:464:THR:HA	2.19	0.42
1:I:500:VAL:CG2	1:I:513:HIS:HB3	2.49	0.42
1:J:114:ILE:HD11	1:J:524:THR:HG22	2.01	0.42
1:K:511:LEU:HD12	1:K:511:LEU:HA	1.73	0.42
1:L:119:LYS:HA	1:L:244:VAL:O	2.18	0.42
1:L:499:TYR:CZ	1:b:205:ASN:HB3	2.54	0.42
1:M:343:THR:HB	1:M:508:GLN:HB3	2.01	0.42
1:O:69:ILE:O	1:O:88:GLY:N	2.47	0.42
1:O:157:PHE:HB3	1:O:222:SER:HB3	2.01	0.42
1:O:500:VAL:CG2	1:O:513:HIS:HB3	2.49	0.42
1:P:98:TYR:CE2	1:P:127:ILE:HD11	2.54	0.42
1:Q:98:TYR:CE2	1:Q:127:ILE:HD11	2.54	0.42
1:Q:293:MET:HB3	1:Q:333:GLU:CG	2.49	0.42
1:Q:483:TRP:CH2	1:R:106:SER:HB3	2.54	0.42
1:R:293:MET:HB3	1:R:333:GLU:CG	2.49	0.42
1:S:102:CYS:HA	1:S:410:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:272:ASP:HB2	1:U:339:TRP:CZ2	2.54	0.42
1:V:64:ASP:HA	1:V:92:PRO:HB3	2.01	0.42
1:V:84:THR:HB	1:X:277:HIS:HA	2.01	0.42
1:V:102:CYS:HA	1:V:410:TYR:CZ	2.54	0.42
1:W:483:TRP:CH2	1:X:106:SER:HB3	2.54	0.42
1:W:484:ASN:ND2	1:X:502:MET:HE2	2.27	0.42
1:X:72:LYS:HA	1:X:207:LEU:HD11	2.01	0.42
1:X:248:ARG:HH11	1:X:370:ARG:HA	1.84	0.42
1:Z:72:LYS:HA	1:Z:207:LEU:HD11	2.01	0.42
1:Z:137:LYS:HE2	1:Z:137:LYS:HB3	1.73	0.42
1:a:343:THR:HB	1:a:508:GLN:HB3	2.01	0.42
1:b:310:ASP:HA	1:b:315:TYR:HA	2.00	0.42
1:d:106:SER:HB3	1:n:483:TRP:CH2	2.53	0.42
1:d:114:ILE:HD11	1:d:524:THR:HG22	2.01	0.42
1:d:293:MET:HB3	1:d:333:GLU:CG	2.49	0.42
1:d:324:ILE:HB	1:d:376:ALA:O	2.18	0.42
1:d:483:TRP:CH2	1:n:106:SER:HB3	2.54	0.42
1:e:98:TYR:CE2	1:e:127:ILE:HD11	2.54	0.42
1:f:98:TYR:CE2	1:f:127:ILE:HD11	2.54	0.42
1:f:272:ASP:HB2	1:h:339:TRP:CZ2	2.54	0.42
1:g:98:TYR:CE2	1:g:127:ILE:HD11	2.54	0.42
1:g:102:CYS:HA	1:g:410:TYR:CE1	2.54	0.42
1:h:248:ARG:HH11	1:h:370:ARG:HA	1.84	0.42
1:i:337:THR:HG22	1:k:266:VAL:HG11	1.99	0.42
1:j:98:TYR:CE2	1:j:127:ILE:HD11	2.54	0.42
1:l:157:PHE:HB3	1:l:222:SER:HB3	2.01	0.42
1:l:205:ASN:HB3	1:n:499:TYR:CE2	2.53	0.42
1:l:500:VAL:CG2	1:l:513:HIS:HB3	2.49	0.42
1:m:40:ASN:HB3	1:s:221:PRO:HD3	2.01	0.42
1:n:114:ILE:HD11	1:n:524:THR:HG22	2.01	0.42
1:n:221:PRO:HD3	1:r:40:ASN:HB3	2.01	0.42
1:n:286:LEU:N	1:n:286:LEU:HD23	2.33	0.42
1:n:293:MET:HB3	1:n:333:GLU:CG	2.49	0.42
1:p:64:ASP:HA	1:p:92:PRO:HB3	2.01	0.42
1:p:286:LEU:O	1:p:402:ILE:N	2.41	0.42
1:q:106:SER:HB3	1:x:483:TRP:CH2	2.54	0.42
1:r:272:ASP:HB2	1:s:339:TRP:CZ2	2.54	0.42
1:r:326:ARG:HG3	1:r:334:TYR:HB3	2.00	0.42
1:s:500:VAL:CG2	1:s:513:HIS:HB3	2.49	0.42
1:t:283:GLN:HA	1:t:284:PRO:HD3	1.69	0.42
1:t:327:ALA:H	1:t:377:ARG:NH2	2.14	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:221:PRO:HD3	1:5:40:ASN:HB3	2.01	0.42
1:u:272:ASP:HB2	1:v:339:TRP:CZ2	2.54	0.42
1:u:500:VAL:CG2	1:u:513:HIS:HB3	2.49	0.42
1:v:205:ASN:HB3	1:1:499:TYR:CZ	2.54	0.42
1:x:119:LYS:HA	1:x:244:VAL:O	2.18	0.42
1:y:102:CYS:HA	1:y:410:TYR:CZ	2.54	0.42
1:y:343:THR:HB	1:y:508:GLN:HB3	2.01	0.42
1:1:157:PHE:HB3	1:1:222:SER:HB3	2.01	0.42
1:2:114:ILE:HD11	1:2:524:THR:HG22	2.01	0.42
1:3:56:CYS:O	1:3:464:THR:HA	2.19	0.42
1:3:500:VAL:CG2	1:3:513:HIS:HB3	2.49	0.42
1:8:72:LYS:HA	1:8:207:LEU:HD11	2.01	0.42
1:A:324:ILE:HB	1:A:376:ALA:O	2.18	0.42
1:B:102:CYS:HA	1:B:410:TYR:CZ	2.54	0.42
1:B:157:PHE:HB3	1:B:222:SER:HB3	2.02	0.42
1:B:279:SER:HG	1:J:314:SER:HB3	1.80	0.42
1:B:293:MET:HB3	1:B:333:GLU:CG	2.49	0.42
1:B:500:VAL:CG2	1:B:513:HIS:HB3	2.49	0.42
1:C:98:TYR:CE2	1:C:127:ILE:HD11	2.54	0.42
1:C:102:CYS:HA	1:C:410:TYR:CE1	2.54	0.42
1:E:98:TYR:CE2	1:E:127:ILE:HD11	2.54	0.42
1:F:102:CYS:HA	1:F:410:TYR:CZ	2.54	0.42
1:G:102:CYS:HA	1:G:410:TYR:CE1	2.54	0.42
1:H:221:PRO:HD3	1:Z:40:ASN:HB3	2.02	0.42
1:K:40:ASN:HB3	1:L:221:PRO:HD3	2.01	0.42
1:L:293:MET:HB3	1:L:333:GLU:CG	2.49	0.42
1:N:72:LYS:HA	1:N:207:LEU:HD11	2.02	0.42
1:N:499:TYR:CE2	1:m:205:ASN:HB3	2.53	0.42
1:O:34:THR:HG1	1:O:131:ASN:H	1.61	0.42
1:O:102:CYS:HA	1:O:410:TYR:CE1	2.54	0.42
1:O:183:ILE:CD1	1:P:458:TYR:CZ	3.02	0.42
1:O:277:HIS:HA	1:m:84:THR:HB	2.01	0.42
1:O:293:MET:HB3	1:O:333:GLU:CG	2.49	0.42
1:O:511:LEU:HD12	1:O:511:LEU:HA	1.73	0.42
1:P:286:LEU:O	1:P:402:ILE:N	2.41	0.42
1:Q:119:LYS:HA	1:Q:244:VAL:O	2.18	0.42
1:R:119:LYS:HA	1:R:244:VAL:O	2.18	0.42
1:S:40:ASN:HB3	1:d:221:PRO:HD3	2.02	0.42
1:S:500:VAL:CG2	1:S:513:HIS:HB3	2.49	0.42
1:T:205:ASN:HB3	1:i:499:TYR:CE2	2.53	0.42
1:T:272:ASP:HB2	1:d:339:TRP:CZ2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:339:TRP:CZ2	1:l:272:ASP:HB2	2.54	0.42
1:T:451:PRO:HB3	1:i:183:ILE:HD13	2.00	0.42
1:U:72:LYS:HA	1:U:207:LEU:HD11	2.01	0.42
1:V:248:ARG:HH11	1:V:370:ARG:HA	1.84	0.42
1:V:343:THR:HB	1:V:508:GLN:HB3	2.01	0.42
1:X:310:ASP:HA	1:X:315:TYR:HA	2.00	0.42
1:X:458:TYR:CZ	1:f:183:ILE:CD1	3.02	0.42
1:Y:102:CYS:HA	1:Y:410:TYR:CE1	2.55	0.42
1:Y:500:VAL:CG2	1:Y:513:HIS:HB3	2.49	0.42
1:a:56:CYS:O	1:a:464:THR:HA	2.19	0.42
1:a:286:LEU:HD23	1:a:286:LEU:N	2.33	0.42
1:a:500:VAL:CG2	1:a:513:HIS:HB3	2.49	0.42
1:b:98:TYR:CE2	1:b:127:ILE:HD11	2.54	0.42
1:b:183:ILE:CD1	1:o:458:TYR:CZ	3.02	0.42
1:b:343:THR:HB	1:b:508:GLN:HB3	2.01	0.42
1:b:483:TRP:CH2	1:c:106:SER:HB3	2.54	0.42
1:c:98:TYR:CE2	1:c:127:ILE:HD11	2.54	0.42
1:c:500:VAL:CG2	1:c:513:HIS:HB3	2.49	0.42
1:e:106:SER:HB3	1:f:483:TRP:CH2	2.54	0.42
1:e:500:VAL:CG2	1:e:513:HIS:HB3	2.49	0.42
1:e:502:MET:HE2	1:f:484:ASN:ND2	2.27	0.42
1:f:310:ASP:HA	1:f:315:TYR:HA	2.00	0.42
1:g:84:THR:HB	1:h:277:HIS:HA	2.01	0.42
1:h:343:THR:HB	1:h:508:GLN:HB3	2.01	0.42
1:i:157:PHE:HB3	1:i:222:SER:HB3	2.01	0.42
1:j:248:ARG:HH11	1:j:370:ARG:HA	1.84	0.42
1:j:286:LEU:N	1:j:286:LEU:HD23	2.33	0.42
1:j:286:LEU:O	1:j:402:ILE:N	2.41	0.42
1:k:72:LYS:HA	1:k:207:LEU:HD11	2.01	0.42
1:l:119:LYS:HA	1:l:244:VAL:O	2.18	0.42
1:m:499:TYR:CZ	1:s:205:ASN:HB3	2.55	0.42
1:n:102:CYS:HA	1:n:410:TYR:CE1	2.54	0.42
1:n:324:ILE:HB	1:n:376:ALA:O	2.18	0.42
1:o:72:LYS:HA	1:o:207:LEU:HD11	2.02	0.42
1:o:106:SER:HB3	1:6:483:TRP:CH2	2.54	0.42
1:o:277:HIS:HA	1:p:84:THR:HB	2.01	0.42
1:o:310:ASP:HA	1:o:315:TYR:HA	2.00	0.42
1:p:286:LEU:HD23	1:p:286:LEU:N	2.33	0.42
1:p:343:THR:HB	1:p:508:GLN:HB3	2.01	0.42
1:r:500:VAL:CG2	1:r:513:HIS:HB3	2.49	0.42
1:t:75:GLY:HA3	1:t:83:LYS:HD2	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:56:CYS:O	1:u:464:THR:HA	2.19	0.42
1:v:98:TYR:CE2	1:v:127:ILE:HD11	2.54	0.42
1:v:324:ILE:HB	1:v:376:ALA:O	2.18	0.42
1:w:268:LEU:HD11	1:x:317:GLY:HA3	2.01	0.42
1:x:272:ASP:HB2	1:y:339:TRP:CZ2	2.54	0.42
1:x:293:MET:HB3	1:x:333:GLU:CG	2.49	0.42
1:y:283:GLN:HA	1:y:284:PRO:HD3	1.70	0.42
1:z:119:LYS:HA	1:z:244:VAL:O	2.18	0.42
1:z:221:PRO:HD3	1:4:40:ASN:HB3	2.01	0.42
1:z:293:MET:HB3	1:z:333:GLU:CG	2.49	0.42
1:1:96:ILE:HD13	1:1:186:LEU:HG	1.99	0.42
1:1:293:MET:HB3	1:1:333:GLU:CG	2.49	0.42
1:1:500:VAL:CG2	1:1:513:HIS:HB3	2.49	0.42
1:3:286:LEU:HD23	1:3:286:LEU:N	2.33	0.42
1:3:339:TRP:CZ2	1:4:272:ASP:HB2	2.54	0.42
1:5:65:MET:HE3	1:5:65:MET:HB2	1.92	0.42
1:5:102:CYS:HA	1:5:410:TYR:CE1	2.54	0.42
1:5:293:MET:HB3	1:5:333:GLU:CG	2.49	0.42
1:7:102:CYS:HA	1:7:410:TYR:CE1	2.54	0.42
1:8:64:ASP:HA	1:8:92:PRO:HB3	2.00	0.42
1:A:64:ASP:HA	1:A:92:PRO:HB3	2.01	0.42
1:A:98:TYR:CE2	1:A:127:ILE:HD11	2.54	0.42
1:A:343:THR:HB	1:A:508:GLN:HB3	2.01	0.42
1:B:205:ASN:HB3	1:C:499:TYR:CZ	2.55	0.42
1:C:293:MET:HB3	1:C:333:GLU:CG	2.49	0.42
1:D:72:LYS:HA	1:D:207:LEU:HD11	2.02	0.42
1:D:102:CYS:HA	1:D:410:TYR:CE1	2.54	0.42
1:D:272:ASP:HB2	1:N:339:TRP:CZ2	2.54	0.42
1:E:69:ILE:O	1:E:88:GLY:N	2.47	0.42
1:E:339:TRP:CZ2	1:F:272:ASP:HB2	2.54	0.42
1:G:327:ALA:H	1:G:377:ARG:NH2	2.14	0.42
1:G:500:VAL:CG2	1:G:513:HIS:HB3	2.49	0.42
1:H:64:ASP:HA	1:H:92:PRO:HB3	2.01	0.42
1:H:286:LEU:O	1:H:402:ILE:N	2.41	0.42
1:H:310:ASP:HA	1:H:315:TYR:HA	2.00	0.42
1:J:414:ILE:HG21	1:J:471:MET:HE1	1.99	0.42
1:L:326:ARG:HG3	1:L:334:TYR:HB3	2.00	0.42
1:L:343:THR:HB	1:L:508:GLN:HB3	2.01	0.42
1:M:102:CYS:HA	1:M:410:TYR:CZ	2.54	0.42
1:N:157:PHE:HB3	1:N:222:SER:HB3	2.01	0.42
1:O:75:GLY:HA3	1:O:83:LYS:HD2	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:286:LEU:HD23	1:P:286:LEU:N	2.33	0.42
1:Q:286:LEU:HD23	1:Q:286:LEU:N	2.33	0.42
1:R:56:CYS:O	1:R:464:THR:HA	2.19	0.42
1:R:72:LYS:HA	1:R:207:LEU:HD11	2.01	0.42
1:R:114:ILE:HD11	1:R:524:THR:HG22	2.01	0.42
1:S:157:PHE:HB3	1:S:222:SER:HB3	2.01	0.42
1:S:499:TYR:CZ	1:d:205:ASN:HB3	2.55	0.42
1:T:499:TYR:CZ	1:U:205:ASN:HB3	2.55	0.42
1:U:98:TYR:CE2	1:U:127:ILE:HD11	2.54	0.42
1:V:221:PRO:HD3	1:W:40:ASN:HB3	2.01	0.42
1:X:102:CYS:HA	1:X:410:TYR:CE1	2.54	0.42
1:Z:272:ASP:HB2	1:4:339:TRP:CZ2	2.54	0.42
1:Z:294:THR:HB	1:3:383:ALA:CB	2.49	0.42
1:Z:500:VAL:CG2	1:Z:513:HIS:HB3	2.49	0.42
1:b:502:MET:HE2	1:c:484:ASN:ND2	2.27	0.42
1:f:343:THR:HB	1:f:508:GLN:HB3	2.01	0.42
1:g:293:MET:HB3	1:g:333:GLU:CG	2.49	0.42
1:g:499:TYR:CZ	1:1:205:ASN:HB3	2.55	0.42
1:h:102:CYS:HA	1:h:410:TYR:CZ	2.53	0.42
1:i:72:LYS:HA	1:i:207:LEU:HD11	2.01	0.42
1:i:293:MET:HB3	1:i:333:GLU:CG	2.49	0.42
1:k:283:GLN:HA	1:k:284:PRO:HD3	1.70	0.42
1:l:293:MET:HB3	1:l:333:GLU:CG	2.49	0.42
1:n:102:CYS:HA	1:n:410:TYR:CZ	2.54	0.42
1:n:205:ASN:HB3	1:r:499:TYR:CZ	2.54	0.42
1:o:102:CYS:HA	1:o:410:TYR:CE1	2.54	0.42
1:p:102:CYS:HA	1:p:410:TYR:CZ	2.54	0.42
1:p:221:PRO:HD3	1:6:40:ASN:HB3	2.01	0.42
1:p:248:ARG:HH11	1:p:370:ARG:HA	1.84	0.42
1:q:72:LYS:HA	1:q:207:LEU:HD11	2.01	0.42
1:q:114:ILE:HD11	1:q:524:THR:HG22	2.01	0.42
1:r:102:CYS:HA	1:r:410:TYR:CZ	2.54	0.42
1:r:221:PRO:HD3	1:x:40:ASN:HB3	2.01	0.42
1:s:72:LYS:HA	1:s:207:LEU:HD11	2.02	0.42
1:t:102:CYS:HA	1:t:410:TYR:CE1	2.54	0.42
1:t:500:VAL:CG2	1:t:513:HIS:HB3	2.49	0.42
1:u:72:LYS:HA	1:u:207:LEU:HD11	2.01	0.42
1:u:326:ARG:HG3	1:u:334:TYR:HB3	2.00	0.42
1:u:511:LEU:HD12	1:u:511:LEU:HA	1.73	0.42
1:v:64:ASP:HA	1:v:92:PRO:HB3	2.01	0.42
1:v:65:MET:HE3	1:v:65:MET:HB2	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:343:THR:HB	1:v:508:GLN:HB3	2.01	0.42
1:w:84:THR:HG1	1:y:277:HIS:HD2	1.65	0.42
1:w:98:TYR:CE2	1:w:127:ILE:HD11	2.54	0.42
1:w:156:ILE:HA	1:w:444:PHE:O	2.20	0.42
1:y:34:THR:HG1	1:y:131:ASN:H	1.61	0.42
1:y:326:ARG:HG3	1:y:334:TYR:HB3	2.00	0.42
1:y:327:ALA:H	1:y:377:ARG:NH2	2.14	0.42
1:2:69:ILE:O	1:2:88:GLY:N	2.47	0.42
1:5:64:ASP:HA	1:5:92:PRO:HB3	2.01	0.42
1:7:500:VAL:CG2	1:7:513:HIS:HB3	2.49	0.42
1:8:500:VAL:CG2	1:8:513:HIS:HB3	2.49	0.42
1:A:157:PHE:HB3	1:A:222:SER:HB3	2.01	0.42
1:B:64:ASP:HA	1:B:92:PRO:HB3	2.00	0.42
1:B:102:CYS:HA	1:B:410:TYR:CE1	2.55	0.42
1:B:248:ARG:HH11	1:B:370:ARG:HA	1.84	0.42
1:B:285:TRP:CZ3	1:J:416:GLN:NE2	2.87	0.42
1:C:205:ASN:HB3	1:D:499:TYR:CZ	2.55	0.42
1:C:340:THR:OG1	1:C:512:ASN:ND2	2.30	0.42
1:C:483:TRP:CH2	1:L:106:SER:HB3	2.54	0.42
1:E:156:ILE:HA	1:E:444:PHE:O	2.20	0.42
1:F:205:ASN:HB3	1:R:499:TYR:CZ	2.54	0.42
1:F:326:ARG:HG3	1:F:334:TYR:HB3	2.01	0.42
1:G:183:ILE:HD12	1:W:458:TYR:CZ	2.53	0.42
1:H:102:CYS:HA	1:H:410:TYR:CE1	2.55	0.42
1:I:248:ARG:HH11	1:I:370:ARG:HA	1.84	0.42
1:I:324:ILE:HB	1:I:376:ALA:O	2.18	0.42
1:I:326:ARG:HG3	1:I:334:TYR:HB3	2.00	0.42
1:J:56:CYS:O	1:J:464:THR:HA	2.19	0.42
1:K:205:ASN:HB3	1:7:499:TYR:CZ	2.55	0.42
1:K:248:ARG:HH11	1:K:370:ARG:HA	1.84	0.42
1:K:272:ASP:HB2	1:a:339:TRP:CZ2	2.54	0.42
1:L:56:CYS:O	1:L:464:THR:HA	2.19	0.42
1:M:56:CYS:O	1:M:464:THR:HA	2.19	0.42
1:M:114:ILE:HD13	1:M:114:ILE:HA	1.75	0.42
1:N:248:ARG:HH11	1:N:370:ARG:HA	1.84	0.42
1:N:293:MET:HB3	1:N:333:GLU:CG	2.49	0.42
1:O:294:THR:HB	1:n:383:ALA:HB2	2.01	0.42
1:O:310:ASP:HA	1:O:315:TYR:HA	2.00	0.42
1:P:249:SER:O	1:P:373:GLU:CG	2.54	0.42
1:Q:40:ASN:HB3	1:S:221:PRO:HD3	2.01	0.42
1:R:339:TRP:CZ2	1:U:272:ASP:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:343:THR:HB	1:R:508:GLN:HB3	2.01	0.42
1:S:56:CYS:O	1:S:464:THR:HA	2.19	0.42
1:S:102:CYS:HA	1:S:410:TYR:CE1	2.55	0.42
1:S:286:LEU:N	1:S:286:LEU:HD23	2.33	0.42
1:U:56:CYS:O	1:U:464:THR:HA	2.19	0.42
1:U:69:ILE:O	1:U:88:GLY:N	2.47	0.42
1:W:98:TYR:CE2	1:W:127:ILE:HD11	2.54	0.42
1:W:157:PHE:HB3	1:W:222:SER:HB3	2.01	0.42
1:W:399:PRO:HD3	1:Y:397:CYS:SG	2.59	0.42
1:X:98:TYR:CE2	1:X:127:ILE:HD11	2.54	0.42
1:X:326:ARG:HG3	1:X:334:TYR:HB3	2.00	0.42
1:X:451:PRO:HB3	1:f:183:ILE:HD13	2.00	0.42
1:Y:106:SER:HB3	1:Z:483:TRP:CH2	2.53	0.42
1:Y:137:LYS:HB3	1:Y:137:LYS:HE2	1.73	0.42
1:Y:326:ARG:HG3	1:Y:334:TYR:HB3	2.00	0.42
1:Y:499:TYR:CZ	1:4:205:ASN:HB3	2.55	0.42
1:Z:64:ASP:HA	1:Z:92:PRO:HB3	2.01	0.42
1:Z:84:THR:HB	1:3:277:HIS:HA	2.01	0.42
1:a:64:ASP:HA	1:a:92:PRO:HB3	2.01	0.42
1:b:114:ILE:HD11	1:b:524:THR:HG22	2.01	0.42
1:c:86:TRP:CE3	1:c:192:THR:HG22	2.55	0.42
1:c:156:ILE:HA	1:c:444:PHE:O	2.20	0.42
1:c:272:ASP:HB2	1:o:339:TRP:CZ2	2.54	0.42
1:d:102:CYS:HA	1:d:410:TYR:CE1	2.55	0.42
1:d:102:CYS:HA	1:d:410:TYR:CZ	2.54	0.42
1:d:383:ALA:HB2	1:l:294:THR:HB	2.01	0.42
1:e:86:TRP:CE3	1:e:192:THR:HG22	2.55	0.42
1:f:114:ILE:HD11	1:f:524:THR:HG22	2.01	0.42
1:f:157:PHE:HB3	1:f:222:SER:HB3	2.01	0.42
1:i:156:ILE:HA	1:i:444:PHE:O	2.20	0.42
1:i:339:TRP:CZ2	1:k:272:ASP:HB2	2.54	0.42
1:j:102:CYS:HA	1:j:410:TYR:CE1	2.54	0.42
1:j:458:TYR:CZ	1:l:183:ILE:CD1	3.02	0.42
1:k:102:CYS:HA	1:k:410:TYR:CE1	2.55	0.42
1:l:75:GLY:HA3	1:l:83:LYS:HD2	1.99	0.42
1:l:102:CYS:HA	1:l:410:TYR:CE1	2.55	0.42
1:l:248:ARG:HH11	1:l:370:ARG:HA	1.84	0.42
1:m:106:SER:HB3	1:r:483:TRP:CH2	2.54	0.42
1:m:183:ILE:HD12	1:s:458:TYR:CE1	2.52	0.42
1:m:272:ASP:HB2	1:n:339:TRP:CZ2	2.54	0.42
1:n:248:ARG:HH11	1:n:370:ARG:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:502:MET:HE2	1:6:484:ASN:ND2	2.27	0.42
1:q:339:TRP:CZ2	1:s:272:ASP:HB2	2.54	0.42
1:q:343:THR:HB	1:q:508:GLN:HB3	2.01	0.42
1:r:56:CYS:O	1:r:464:THR:HA	2.19	0.42
1:r:102:CYS:HA	1:r:410:TYR:CE1	2.55	0.42
1:r:157:PHE:HB3	1:r:222:SER:HB3	2.01	0.42
1:r:286:LEU:N	1:r:286:LEU:HD23	2.33	0.42
1:s:98:TYR:CE2	1:s:127:ILE:HD11	2.54	0.42
1:t:294:THR:HB	1:v:383:ALA:HB2	2.00	0.42
1:u:248:ARG:HH11	1:u:370:ARG:HA	1.84	0.42
1:v:40:ASN:HB3	1:w:221:PRO:HD3	2.01	0.42
1:v:157:PHE:HB3	1:v:222:SER:HB3	2.01	0.42
1:v:183:ILE:CD1	1:w:458:TYR:CZ	3.03	0.42
1:w:339:TRP:CZ2	1:y:272:ASP:HB2	2.54	0.42
1:w:500:VAL:CG2	1:w:513:HIS:HB3	2.49	0.42
1:x:248:ARG:HH11	1:x:370:ARG:HA	1.84	0.42
1:x:286:LEU:HD23	1:x:286:LEU:N	2.33	0.42
1:y:500:VAL:CG2	1:y:513:HIS:HB3	2.49	0.42
1:z:205:ASN:HB3	1:4:499:TYR:CZ	2.55	0.42
1:z:500:VAL:CG2	1:z:513:HIS:HB3	2.49	0.42
1:1:102:CYS:HA	1:1:410:TYR:CZ	2.54	0.42
1:1:399:PRO:HD3	1:2:397:CYS:SG	2.60	0.42
1:2:56:CYS:O	1:2:464:THR:HA	2.19	0.42
1:3:64:ASP:HA	1:3:92:PRO:HB3	2.01	0.42
1:5:268:LEU:HD11	1:6:317:GLY:HA3	2.01	0.42
1:5:310:ASP:HA	1:5:315:TYR:HA	2.00	0.42
1:5:343:THR:HB	1:5:508:GLN:HB3	2.01	0.42
1:6:268:LEU:HD11	1:7:317:GLY:HA3	2.01	0.42
1:6:343:THR:HB	1:6:508:GLN:HB3	2.01	0.42
1:7:326:ARG:HG3	1:7:334:TYR:HB3	2.00	0.42
1:8:34:THR:HG1	1:8:131:ASN:H	1.61	0.42
1:A:34:THR:HG1	1:A:131:ASN:H	1.60	0.42
1:A:102:CYS:HA	1:A:410:TYR:CE1	2.54	0.42
1:A:277:HIS:CE1	1:G:77:VAL:O	2.70	0.42
1:B:399:PRO:HD3	1:J:397:CYS:SG	2.60	0.42
1:C:72:LYS:HA	1:C:207:LEU:HD11	2.01	0.42
1:C:84:THR:HB	1:M:277:HIS:HA	2.01	0.42
1:D:56:CYS:O	1:D:464:THR:HA	2.19	0.42
1:D:248:ARG:HH11	1:D:370:ARG:HA	1.84	0.42
1:D:458:TYR:CZ	1:E:183:ILE:CD1	3.03	0.42
1:E:102:CYS:HA	1:E:410:TYR:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:114:ILE:HD11	1:E:524:THR:HG22	2.01	0.42
1:E:343:THR:HB	1:E:508:GLN:HB3	2.01	0.42
1:E:397:CYS:SG	1:F:399:PRO:HD3	2.60	0.42
1:F:156:ILE:HA	1:F:444:PHE:O	2.20	0.42
1:F:397:CYS:SG	1:Q:399:PRO:HD3	2.60	0.42
1:F:500:VAL:CG2	1:F:513:HIS:HB3	2.49	0.42
1:G:86:TRP:CE3	1:G:192:THR:HG22	2.55	0.42
1:H:343:THR:HB	1:H:508:GLN:HB3	2.01	0.42
1:H:399:PRO:HD3	1:W:397:CYS:SG	2.59	0.42
1:H:416:GLN:NE2	1:Y:285:TRP:CZ3	2.87	0.42
1:H:499:TYR:CZ	1:I:205:ASN:HB3	2.54	0.42
1:I:40:ASN:HB3	1:J:221:PRO:HD3	2.01	0.42
1:I:72:LYS:HA	1:I:207:LEU:HD11	2.02	0.42
1:I:183:ILE:HD13	1:J:451:PRO:HB3	2.00	0.42
1:J:399:PRO:HD3	1:L:397:CYS:SG	2.60	0.42
1:K:339:TRP:CZ2	1:8:272:ASP:HB2	2.54	0.42
1:K:383:ALA:CB	1:a:294:THR:HB	2.50	0.42
1:K:499:TYR:CZ	1:L:205:ASN:HB3	2.55	0.42
1:L:500:VAL:CG2	1:L:513:HIS:HB3	2.49	0.42
1:M:102:CYS:HA	1:M:410:TYR:CE1	2.54	0.42
1:M:205:ASN:HB3	1:c:499:TYR:CZ	2.55	0.42
1:M:310:ASP:HA	1:M:315:TYR:HA	2.00	0.42
1:N:102:CYS:HA	1:N:410:TYR:CZ	2.54	0.42
1:N:156:ILE:HA	1:N:444:PHE:O	2.20	0.42
1:N:183:ILE:HD13	1:m:451:PRO:HB3	2.00	0.42
1:O:205:ASN:HB3	1:d:499:TYR:CZ	2.55	0.42
1:P:183:ILE:CD1	1:Q:458:TYR:CZ	3.02	0.42
1:Q:72:LYS:HA	1:Q:207:LEU:HD11	2.02	0.42
1:R:248:ARG:HH11	1:R:370:ARG:HA	1.84	0.42
1:T:102:CYS:HA	1:T:410:TYR:CE1	2.54	0.42
1:U:157:PHE:HB3	1:U:222:SER:HB3	2.02	0.42
1:U:511:LEU:HD12	1:U:511:LEU:HA	1.73	0.42
1:V:156:ILE:HA	1:V:444:PHE:O	2.20	0.42
1:V:327:ALA:H	1:V:377:ARG:NH2	2.14	0.42
1:W:56:CYS:O	1:W:464:THR:HA	2.19	0.42
1:W:343:THR:HB	1:W:508:GLN:HB3	2.01	0.42
1:X:86:TRP:CE3	1:X:192:THR:HG22	2.55	0.42
1:X:499:TYR:CZ	1:Y:205:ASN:HB3	2.55	0.42
1:Y:293:MET:HB3	1:Y:333:GLU:CG	2.49	0.42
1:b:157:PHE:HB3	1:b:222:SER:HB3	2.01	0.42
1:b:326:ARG:HG3	1:b:334:TYR:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:114:ILE:HD11	1:c:524:THR:HG22	2.01	0.42
1:c:225:LEU:HD22	1:c:229:ASN:CB	2.48	0.42
1:d:248:ARG:HH11	1:d:370:ARG:HA	1.84	0.42
1:d:268:LEU:HD11	1:l:317:GLY:HA3	2.02	0.42
1:d:500:VAL:CG2	1:d:513:HIS:HB3	2.49	0.42
1:e:114:ILE:HD11	1:e:524:THR:HG22	2.01	0.42
1:e:156:ILE:HA	1:e:444:PHE:O	2.20	0.42
1:f:156:ILE:HA	1:f:444:PHE:O	2.20	0.42
1:f:326:ARG:HG3	1:f:334:TYR:HB3	2.00	0.42
1:f:399:PRO:HD3	1:h:397:CYS:SG	2.60	0.42
1:g:205:ASN:HB3	1:k:499:TYR:CZ	2.55	0.42
1:g:294:THR:HB	1:h:383:ALA:HB2	2.02	0.42
1:g:343:THR:HB	1:g:508:GLN:HB3	2.01	0.42
1:g:483:TRP:CH2	1:z:106:SER:HB3	2.54	0.42
1:g:500:VAL:CG2	1:g:513:HIS:HB3	2.49	0.42
1:h:56:CYS:O	1:h:464:THR:HA	2.19	0.42
1:h:310:ASP:HA	1:h:315:TYR:HA	2.00	0.42
1:h:483:TRP:CH2	1:k:106:SER:HB3	2.54	0.42
1:h:499:TYR:CZ	1:i:205:ASN:HB3	2.54	0.42
1:i:102:CYS:HA	1:i:410:TYR:CZ	2.54	0.42
1:i:248:ARG:HH11	1:i:370:ARG:HA	1.84	0.42
1:k:56:CYS:O	1:k:464:THR:HA	2.19	0.42
1:k:156:ILE:HA	1:k:444:PHE:O	2.20	0.42
1:k:248:ARG:HH11	1:k:370:ARG:HA	1.84	0.42
1:l:310:ASP:HA	1:l:315:TYR:HA	2.00	0.42
1:n:500:VAL:CG2	1:n:513:HIS:HB3	2.49	0.42
1:o:86:TRP:CE3	1:o:192:THR:HG22	2.55	0.42
1:o:98:TYR:CE2	1:o:127:ILE:HD11	2.54	0.42
1:o:326:ARG:HG3	1:o:334:TYR:HB3	2.00	0.42
1:o:499:TYR:CZ	1:7:205:ASN:HB3	2.55	0.42
1:p:327:ALA:H	1:p:377:ARG:NH2	2.14	0.42
1:q:56:CYS:O	1:q:464:THR:HA	2.19	0.42
1:q:499:TYR:CZ	1:y:205:ASN:HB3	2.54	0.42
1:r:383:ALA:CB	1:s:294:THR:HB	2.50	0.42
1:s:56:CYS:O	1:s:464:THR:HA	2.19	0.42
1:s:83:LYS:HD3	1:s:83:LYS:HA	1.78	0.42
1:s:157:PHE:HB3	1:s:222:SER:HB3	2.02	0.42
1:u:40:ASN:HB3	1:2:221:PRO:HD3	2.01	0.42
1:u:114:ILE:HD11	1:u:524:THR:HG22	2.01	0.42
1:u:183:ILE:HD13	1:2:451:PRO:HB3	2.00	0.42
1:u:205:ASN:HB3	1:5:499:TYR:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:324:ILE:HB	1:u:376:ALA:O	2.18	0.42
1:v:310:ASP:HA	1:v:315:TYR:HA	2.00	0.42
1:w:114:ILE:HD11	1:w:524:THR:HG22	2.01	0.42
1:w:137:LYS:HE2	1:w:137:LYS:HB3	1.73	0.42
1:x:399:PRO:HD3	1:y:397:CYS:SG	2.60	0.42
1:y:102:CYS:HA	1:y:410:TYR:CE1	2.54	0.42
1:z:114:ILE:HD11	1:z:524:THR:HG22	2.01	0.42
1:z:137:LYS:HE2	1:z:137:LYS:HB3	1.73	0.42
1:z:343:THR:HB	1:z:508:GLN:HB3	2.01	0.42
1:z:397:CYS:SG	1:2:399:PRO:HD3	2.60	0.42
1:1:64:ASP:HA	1:1:92:PRO:HB3	2.01	0.42
1:1:102:CYS:HA	1:1:410:TYR:CE1	2.55	0.42
1:1:285:TRP:CZ3	1:2:416:GLN:NE2	2.87	0.42
1:2:293:MET:HB3	1:2:333:GLU:CG	2.49	0.42
1:4:98:TYR:CE2	1:4:127:ILE:HD11	2.54	0.42
1:4:114:ILE:HD11	1:4:524:THR:HG22	2.01	0.42
1:5:416:GLN:NE2	1:7:285:TRP:CZ3	2.87	0.42
1:6:399:PRO:HD3	1:7:397:CYS:SG	2.60	0.42
1:7:106:SER:HB3	1:8:483:TRP:CH2	2.53	0.42
1:7:114:ILE:HD11	1:7:524:THR:HG22	2.01	0.42
1:8:137:LYS:HE2	1:8:137:LYS:HB3	1.73	0.42
1:A:86:TRP:CE3	1:A:192:THR:HG22	2.55	0.42
1:A:309:VAL:HG21	1:I:376:ALA:HB1	2.00	0.42
1:A:310:ASP:HA	1:A:315:TYR:HA	2.00	0.42
1:C:157:PHE:HB3	1:C:222:SER:HB3	2.01	0.42
1:C:294:THR:HB	1:M:383:ALA:HB2	2.02	0.42
1:C:343:THR:HB	1:C:508:GLN:HB3	2.01	0.42
1:C:500:VAL:CG2	1:C:513:HIS:HB3	2.49	0.42
1:D:69:ILE:O	1:D:88:GLY:N	2.47	0.42
1:D:156:ILE:HA	1:D:444:PHE:O	2.20	0.42
1:D:268:LEU:HD11	1:N:317:GLY:HA3	2.01	0.42
1:D:285:TRP:CZ3	1:N:416:GLN:NE2	2.87	0.42
1:D:310:ASP:HA	1:D:315:TYR:HA	2.00	0.42
1:E:64:ASP:HA	1:E:92:PRO:HB3	2.01	0.42
1:E:86:TRP:CE3	1:E:192:THR:HG22	2.55	0.42
1:E:500:VAL:CG2	1:E:513:HIS:HB3	2.49	0.42
1:F:40:ASN:HB3	1:G:221:PRO:HD3	2.01	0.42
1:F:72:LYS:HA	1:F:207:LEU:HD11	2.01	0.42
1:F:102:CYS:HA	1:F:410:TYR:CE1	2.55	0.42
1:F:458:TYR:CE1	1:R:183:ILE:HD12	2.52	0.42
1:G:56:CYS:O	1:G:464:THR:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:106:SER:HB3	1:H:483:TRP:CH2	2.54	0.42
1:G:156:ILE:HA	1:G:444:PHE:O	2.20	0.42
1:H:72:LYS:HA	1:H:207:LEU:HD11	2.01	0.42
1:H:157:PHE:HB3	1:H:222:SER:HB3	2.02	0.42
1:H:225:LEU:HD22	1:H:229:ASN:CB	2.48	0.42
1:H:451:PRO:HB3	1:Z:183:ILE:HD13	2.00	0.42
1:I:114:ILE:HD11	1:I:524:THR:HG22	2.01	0.42
1:J:86:TRP:CE3	1:J:192:THR:HG22	2.55	0.42
1:K:98:TYR:CE2	1:K:127:ILE:HD11	2.54	0.42
1:K:114:ILE:HD11	1:K:524:THR:HG22	2.01	0.42
1:K:293:MET:HB3	1:K:333:GLU:CG	2.49	0.42
1:L:98:TYR:CE2	1:L:127:ILE:HD11	2.54	0.42
1:L:114:ILE:HD11	1:L:524:THR:HG22	2.01	0.42
1:M:397:CYS:SG	1:b:399:PRO:HD3	2.60	0.42
1:N:272:ASP:HB2	1:P:339:TRP:CZ2	2.54	0.42
1:N:310:ASP:HA	1:N:315:TYR:HA	2.00	0.42
1:N:499:TYR:CZ	1:m:205:ASN:HB3	2.55	0.42
1:O:248:ARG:HH11	1:O:370:ARG:HA	1.84	0.42
1:O:317:GLY:HA3	1:n:268:LEU:HD11	2.02	0.42
1:P:102:CYS:HA	1:P:410:TYR:CE1	2.55	0.42
1:P:156:ILE:HA	1:P:444:PHE:O	2.20	0.42
1:Q:248:ARG:HH11	1:Q:370:ARG:HA	1.84	0.42
1:R:64:ASP:HA	1:R:92:PRO:HB3	2.01	0.42
1:R:294:THR:HB	1:U:383:ALA:HB2	2.02	0.42
1:R:326:ARG:HG3	1:R:334:TYR:HB3	2.00	0.42
1:S:383:ALA:CB	1:U:294:THR:HB	2.50	0.42
1:S:399:PRO:HD3	1:U:397:CYS:SG	2.60	0.42
1:S:483:TRP:CH2	1:T:106:SER:HB3	2.54	0.42
1:T:114:ILE:HD11	1:T:524:THR:HG22	2.01	0.42
1:T:399:PRO:HD3	1:d:397:CYS:SG	2.60	0.42
1:V:72:LYS:HA	1:V:207:LEU:HD11	2.01	0.42
1:V:86:TRP:CE3	1:V:192:THR:HG22	2.55	0.42
1:V:399:PRO:HD3	1:e:397:CYS:SG	2.60	0.42
1:V:500:VAL:CG2	1:V:513:HIS:HB3	2.49	0.42
1:W:102:CYS:HA	1:W:410:TYR:CE1	2.54	0.42
1:X:114:ILE:HD11	1:X:524:THR:HG22	2.01	0.42
1:X:339:TRP:CZ2	1:e:272:ASP:HB2	2.54	0.42
1:Y:114:ILE:HD11	1:Y:524:THR:HG22	2.01	0.42
1:Z:310:ASP:HA	1:Z:315:TYR:HA	2.00	0.42
1:a:86:TRP:CE3	1:a:192:THR:HG22	2.55	0.42
1:a:364:SER:HB3	1:a:518:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:383:ALA:CB	1:8:294:THR:HB	2.49	0.42
1:b:183:ILE:HD13	1:o:451:PRO:HB3	2.00	0.42
1:c:157:PHE:HB3	1:c:222:SER:HB3	2.01	0.42
1:c:293:MET:HB3	1:c:333:GLU:CG	2.49	0.42
1:c:397:CYS:SG	1:p:399:PRO:HD3	2.60	0.42
1:e:183:ILE:HD13	1:h:451:PRO:HB3	2.00	0.42
1:e:293:MET:HB3	1:e:333:GLU:CG	2.49	0.42
1:e:499:TYR:CZ	1:h:205:ASN:HB3	2.55	0.42
1:f:294:THR:HB	1:g:383:ALA:HB2	2.02	0.42
1:g:72:LYS:HA	1:g:207:LEU:HD11	2.01	0.42
1:g:157:PHE:HB3	1:g:222:SER:HB3	2.01	0.42
1:h:40:ASN:HB3	1:i:221:PRO:HD3	2.01	0.42
1:i:310:ASP:HA	1:i:315:TYR:HA	2.00	0.42
1:i:317:GLY:HA3	1:k:268:LEU:HD11	2.01	0.42
1:i:383:ALA:HB2	1:j:294:THR:HB	2.02	0.42
1:i:416:GLN:NE2	1:k:285:TRP:CZ3	2.88	0.42
1:j:156:ILE:HA	1:j:444:PHE:O	2.20	0.42
1:j:183:ILE:CD1	1:x:458:TYR:CZ	3.03	0.42
1:k:310:ASP:HA	1:k:315:TYR:HA	2.00	0.42
1:l:98:TYR:CE2	1:l:127:ILE:HD11	2.54	0.42
1:m:102:CYS:HA	1:m:410:TYR:CE1	2.54	0.42
1:m:343:THR:HB	1:m:508:GLN:HB3	2.01	0.42
1:m:399:PRO:HD3	1:n:397:CYS:SG	2.60	0.42
1:n:34:THR:HG1	1:n:131:ASN:H	1.59	0.42
1:n:156:ILE:HA	1:n:444:PHE:O	2.20	0.42
1:o:114:ILE:HD11	1:o:524:THR:HG22	2.01	0.42
1:p:72:LYS:HA	1:p:207:LEU:HD11	2.02	0.42
1:p:86:TRP:CE3	1:p:192:THR:HG22	2.55	0.42
1:p:114:ILE:HD13	1:p:114:ILE:HA	1.75	0.42
1:p:156:ILE:HA	1:p:444:PHE:O	2.20	0.42
1:p:205:ASN:HB3	1:6:499:TYR:CZ	2.55	0.42
1:q:248:ARG:HH11	1:q:370:ARG:HA	1.84	0.42
1:q:294:THR:HB	1:s:383:ALA:HB2	2.02	0.42
1:r:399:PRO:HD3	1:s:397:CYS:SG	2.60	0.42
1:s:102:CYS:HA	1:s:410:TYR:CE1	2.55	0.42
1:t:56:CYS:O	1:t:464:THR:HA	2.19	0.42
1:t:86:TRP:CE3	1:t:192:THR:HG22	2.55	0.42
1:u:39:CYS:HB2	1:2:219:GLU:CA	2.34	0.42
1:v:225:LEU:CD1	1:v:231:TRP:HB2	2.37	0.42
1:w:64:ASP:HA	1:w:92:PRO:HB3	2.01	0.42
1:w:69:ILE:O	1:w:88:GLY:N	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:72:LYS:HA	1:w:207:LEU:HD11	2.02	0.42
1:w:86:TRP:CE3	1:w:192:THR:HG22	2.55	0.42
1:w:102:CYS:HA	1:w:410:TYR:CE1	2.54	0.42
1:w:343:THR:HB	1:w:508:GLN:HB3	2.01	0.42
1:w:397:CYS:SG	1:y:399:PRO:HD3	2.60	0.42
1:x:72:LYS:HA	1:x:207:LEU:HD11	2.02	0.42
1:y:156:ILE:HA	1:y:444:PHE:O	2.20	0.42
1:z:56:CYS:O	1:z:464:THR:HA	2.19	0.42
1:z:102:CYS:HA	1:z:410:TYR:CZ	2.54	0.42
1:z:326:ARG:HG3	1:z:334:TYR:HB3	2.01	0.42
1:1:248:ARG:HH11	1:1:370:ARG:HA	1.84	0.42
1:2:86:TRP:CE3	1:2:192:THR:HG22	2.55	0.42
1:2:414:ILE:HG21	1:2:471:MET:HE1	1.99	0.42
1:3:294:THR:HB	1:4:383:ALA:CB	2.50	0.42
1:3:364:SER:HB3	1:3:518:LEU:HD12	2.02	0.42
1:4:248:ARG:HH11	1:4:370:ARG:HA	1.84	0.42
1:4:293:MET:HB3	1:4:333:GLU:CG	2.49	0.42
1:5:72:LYS:HA	1:5:207:LEU:HD11	2.01	0.42
1:5:137:LYS:HB3	1:5:137:LYS:HE2	1.73	0.42
1:5:157:PHE:HB3	1:5:222:SER:HB3	2.01	0.42
1:5:326:ARG:HG3	1:5:334:TYR:HB3	2.00	0.42
1:6:98:TYR:CE2	1:6:127:ILE:HD11	2.54	0.42
1:6:248:ARG:HH11	1:6:370:ARG:HA	1.84	0.42
1:7:293:MET:HB3	1:7:333:GLU:CG	2.49	0.42
1:B:295:ASP:OD1	1:B:332:ASP:HB2	2.20	0.42
1:B:416:GLN:NE2	1:L:285:TRP:CZ3	2.87	0.42
1:C:86:TRP:CE3	1:C:192:THR:HG22	2.55	0.42
1:C:383:ALA:HB2	1:b:294:THR:HB	2.02	0.42
1:D:106:SER:HB3	1:M:483:TRP:CH2	2.54	0.42
1:E:72:LYS:HA	1:E:207:LEU:HD11	2.02	0.42
1:F:327:ALA:H	1:F:377:ARG:NH2	2.14	0.42
1:G:283:GLN:HA	1:G:284:PRO:HD3	1.70	0.42
1:G:285:TRP:CZ3	1:I:416:GLN:NE2	2.87	0.42
1:G:293:MET:HB3	1:G:333:GLU:CG	2.49	0.42
1:G:295:ASP:OD1	1:G:332:ASP:HB2	2.20	0.42
1:H:277:HIS:HA	1:W:84:THR:HB	2.01	0.42
1:H:326:ARG:HG3	1:H:334:TYR:HB3	2.00	0.42
1:H:364:SER:HB3	1:H:518:LEU:HD12	2.02	0.42
1:H:397:CYS:SG	1:Y:399:PRO:HD3	2.60	0.42
1:J:102:CYS:HA	1:J:410:TYR:CE1	2.55	0.42
1:J:293:MET:HB3	1:J:333:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:64:ASP:HA	1:K:92:PRO:HB3	2.01	0.42
1:K:294:THR:HB	1:8:383:ALA:CB	2.50	0.42
1:L:72:LYS:HA	1:L:207:LEU:HD11	2.02	0.42
1:M:157:PHE:HB3	1:M:222:SER:HB3	2.01	0.42
1:M:295:ASP:OD1	1:M:332:ASP:HB2	2.20	0.42
1:M:326:ARG:HG3	1:M:334:TYR:HB3	2.00	0.42
1:M:451:PRO:HB3	1:c:183:ILE:HD13	2.00	0.42
1:M:499:TYR:CZ	1:N:205:ASN:HB3	2.55	0.42
1:N:114:ILE:HD11	1:N:524:THR:HG22	2.01	0.42
1:N:238:ASP:O	1:N:241:THR:OG1	2.21	0.42
1:N:277:HIS:HA	1:P:84:THR:HB	2.01	0.42
1:N:295:ASP:OD1	1:N:332:ASP:HB2	2.20	0.42
1:N:343:THR:HB	1:N:508:GLN:HB3	2.01	0.42
1:N:364:SER:HB3	1:N:518:LEU:HD12	2.02	0.42
1:O:56:CYS:O	1:O:464:THR:HA	2.19	0.42
1:O:397:CYS:SG	1:n:399:PRO:HD3	2.60	0.42
1:O:399:PRO:HD3	1:m:397:CYS:SG	2.60	0.42
1:Q:86:TRP:CE3	1:Q:192:THR:HG22	2.55	0.42
1:R:156:ILE:HA	1:R:444:PHE:O	2.20	0.42
1:R:310:ASP:HA	1:R:315:TYR:HA	2.00	0.42
1:R:397:CYS:SG	1:U:399:PRO:HD3	2.60	0.42
1:R:399:PRO:HD3	1:S:397:CYS:SG	2.60	0.42
1:S:343:THR:HB	1:S:508:GLN:HB3	2.01	0.42
1:T:156:ILE:HA	1:T:444:PHE:O	2.20	0.42
1:T:183:ILE:HD12	1:U:458:TYR:CE1	2.52	0.42
1:T:205:ASN:HB3	1:i:499:TYR:CZ	2.55	0.42
1:T:294:THR:HB	1:l:383:ALA:CB	2.50	0.42
1:T:343:THR:HB	1:T:508:GLN:HB3	2.01	0.42
1:U:102:CYS:HA	1:U:410:TYR:CE1	2.55	0.42
1:V:114:ILE:HD13	1:V:114:ILE:HA	1.75	0.42
1:V:205:ASN:HB3	1:W:499:TYR:CZ	2.55	0.42
1:V:310:ASP:HA	1:V:315:TYR:HA	2.00	0.42
1:W:500:VAL:CG2	1:W:513:HIS:HB3	2.49	0.42
1:X:205:ASN:HB3	1:f:499:TYR:CZ	2.55	0.42
1:Y:86:TRP:CE3	1:Y:192:THR:HG22	2.55	0.42
1:Y:98:TYR:CE2	1:Y:127:ILE:HD11	2.54	0.42
1:Y:156:ILE:HA	1:Y:444:PHE:O	2.20	0.42
1:Z:277:HIS:HA	1:4:84:THR:HB	2.01	0.42
1:Z:383:ALA:CB	1:4:294:THR:HB	2.50	0.42
1:a:106:SER:HB3	1:3:483:TRP:CH2	2.54	0.42
1:a:156:ILE:HA	1:a:444:PHE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:277:HIS:HA	1:8:84:THR:HB	2.02	0.42
1:a:483:TRP:CH2	1:3:106:SER:HB3	2.54	0.42
1:b:156:ILE:HA	1:b:444:PHE:O	2.20	0.42
1:b:499:TYR:CZ	1:o:205:ASN:HB3	2.55	0.42
1:d:86:TRP:CE3	1:d:192:THR:HG22	2.55	0.42
1:d:156:ILE:HA	1:d:444:PHE:O	2.20	0.42
1:e:157:PHE:HB3	1:e:222:SER:HB3	2.01	0.42
1:e:225:LEU:HD22	1:e:229:ASN:CB	2.48	0.42
1:g:86:TRP:CE3	1:g:192:THR:HG22	2.55	0.42
1:h:102:CYS:HA	1:h:410:TYR:CE1	2.54	0.42
1:h:295:ASP:OD1	1:h:332:ASP:HB2	2.20	0.42
1:i:114:ILE:HD11	1:i:524:THR:HG22	2.01	0.42
1:i:272:ASP:HB2	1:j:339:TRP:CZ2	2.54	0.42
1:i:277:HIS:HA	1:j:84:THR:HB	2.01	0.42
1:j:326:ARG:HG3	1:j:334:TYR:HB3	2.00	0.42
1:k:102:CYS:HA	1:k:410:TYR:CZ	2.54	0.42
1:k:221:PRO:HD3	1:w:40:ASN:HB3	2.01	0.42
1:l:72:LYS:HA	1:l:207:LEU:HD11	2.01	0.42
1:m:114:ILE:HD11	1:m:524:THR:HG22	2.01	0.42
1:m:156:ILE:HA	1:m:444:PHE:O	2.20	0.42
1:m:364:SER:HB3	1:m:518:LEU:HD12	2.02	0.42
1:p:310:ASP:HA	1:p:315:TYR:HA	2.00	0.42
1:p:500:VAL:CG2	1:p:513:HIS:HB3	2.49	0.42
1:q:64:ASP:HA	1:q:92:PRO:HB3	2.01	0.42
1:q:156:ILE:HA	1:q:444:PHE:O	2.20	0.42
1:q:326:ARG:HG3	1:q:334:TYR:HB3	2.00	0.42
1:q:397:CYS:SG	1:s:399:PRO:HD3	2.60	0.42
1:q:399:PRO:HD3	1:r:397:CYS:SG	2.60	0.42
1:t:156:ILE:HA	1:t:444:PHE:O	2.20	0.42
1:t:296:GLY:O	1:v:269:ARG:CD	2.68	0.42
1:u:310:ASP:HA	1:u:315:TYR:HA	2.00	0.42
1:v:34:THR:HG1	1:v:131:ASN:H	1.60	0.42
1:v:86:TRP:CE3	1:v:192:THR:HG22	2.55	0.42
1:v:293:MET:HB3	1:v:333:GLU:CG	2.49	0.42
1:x:86:TRP:CE3	1:x:192:THR:HG22	2.55	0.42
1:x:102:CYS:HA	1:x:410:TYR:CE1	2.55	0.42
1:x:277:HIS:HA	1:y:84:THR:HB	2.01	0.42
1:y:72:LYS:HA	1:y:207:LEU:HD11	2.01	0.42
1:z:72:LYS:HA	1:z:207:LEU:HD11	2.02	0.42
1:z:285:TRP:CZ3	1:1:416:GLN:NE2	2.87	0.42
1:1:72:LYS:HA	1:1:207:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:102:CYS:HA	1:2:410:TYR:CE1	2.55	0.42
1:3:86:TRP:CE3	1:3:192:THR:HG22	2.55	0.42
1:3:156:ILE:HA	1:3:444:PHE:O	2.20	0.42
1:5:277:HIS:HA	1:6:84:THR:HB	2.01	0.42
1:5:399:PRO:HD3	1:6:397:CYS:SG	2.59	0.42
1:5:451:PRO:HB3	1:8:183:ILE:HD13	2.00	0.42
1:6:56:CYS:O	1:6:464:THR:HA	2.19	0.42
1:7:86:TRP:CE3	1:7:192:THR:HG22	2.55	0.42
1:7:98:TYR:CE2	1:7:127:ILE:HD11	2.54	0.42
1:8:293:MET:HB3	1:8:333:GLU:CG	2.49	0.42
1:8:310:ASP:HA	1:8:315:TYR:HA	2.00	0.42
1:B:383:ALA:HB2	1:J:294:THR:HB	2.02	0.42
1:D:102:CYS:HA	1:D:410:TYR:CZ	2.54	0.42
1:D:221:PRO:HD3	1:E:40:ASN:HB3	2.01	0.42
1:D:383:ALA:CB	1:N:294:THR:HB	2.50	0.42
1:D:397:CYS:SG	1:P:399:PRO:HD3	2.59	0.42
1:D:416:GLN:NE2	1:P:285:TRP:CZ3	2.87	0.42
1:E:137:LYS:HE2	1:E:137:LYS:HB3	1.73	0.42
1:E:293:MET:HB3	1:E:333:GLU:CG	2.49	0.42
1:E:294:THR:HB	1:F:383:ALA:HB2	2.02	0.42
1:E:294:THR:HB	1:F:383:ALA:CB	2.50	0.42
1:F:84:THR:HB	1:Q:277:HIS:HA	2.01	0.42
1:F:294:THR:HB	1:Q:383:ALA:CB	2.50	0.42
1:G:364:SER:HB3	1:G:518:LEU:HD12	2.02	0.42
1:G:399:PRO:HD3	1:I:397:CYS:SG	2.60	0.42
1:H:339:TRP:CZ2	1:Y:272:ASP:HB2	2.54	0.42
1:I:310:ASP:HA	1:I:315:TYR:HA	2.00	0.42
1:J:106:SER:HB3	1:K:483:TRP:CH2	2.54	0.42
1:J:499:TYR:CZ	1:a:205:ASN:HB3	2.54	0.42
1:K:84:THR:HB	1:8:277:HIS:HA	2.01	0.42
1:K:364:SER:HB3	1:K:518:LEU:HD12	2.02	0.42
1:L:102:CYS:HA	1:L:410:TYR:CZ	2.54	0.42
1:M:40:ASN:HB3	1:N:221:PRO:HD3	2.02	0.42
1:N:64:ASP:HA	1:N:92:PRO:HB3	2.01	0.42
1:N:383:ALA:HB2	1:P:294:THR:HB	2.02	0.42
1:O:72:LYS:HA	1:O:207:LEU:HD11	2.01	0.42
1:O:84:THR:HB	1:n:277:HIS:HA	2.01	0.42
1:O:98:TYR:CE2	1:O:127:ILE:HD11	2.54	0.42
1:P:295:ASP:OD1	1:P:332:ASP:HB2	2.20	0.42
1:Q:102:CYS:HA	1:Q:410:TYR:CE1	2.55	0.42
1:R:268:LEU:HD11	1:S:317:GLY:HA3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:294:THR:HB	1:U:383:ALA:CB	2.50	0.42
1:R:383:ALA:HB2	1:S:294:THR:HB	2.02	0.42
1:S:86:TRP:CE3	1:S:192:THR:HG22	2.55	0.42
1:S:310:ASP:HA	1:S:315:TYR:HA	2.00	0.42
1:S:327:ALA:H	1:S:377:ARG:NH2	2.14	0.42
1:T:225:LEU:HD22	1:T:229:ASN:CB	2.48	0.42
1:T:364:SER:HB3	1:T:518:LEU:HD12	2.02	0.42
1:T:458:TYR:CZ	1:i:183:ILE:CD1	3.02	0.42
1:U:40:ASN:HB3	1:e:221:PRO:HD3	2.02	0.42
1:V:295:ASP:OD1	1:V:332:ASP:HB2	2.20	0.42
1:V:383:ALA:CB	1:e:294:THR:HB	2.50	0.42
1:W:248:ARG:HH11	1:W:370:ARG:HA	1.84	0.42
1:Z:156:ILE:HA	1:Z:444:PHE:O	2.20	0.42
1:Z:295:ASP:OD1	1:Z:332:ASP:HB2	2.20	0.42
1:b:86:TRP:CE3	1:b:192:THR:HG22	2.55	0.42
1:c:221:PRO:HD3	1:s:40:ASN:HB3	2.02	0.42
1:c:511:LEU:HA	1:c:511:LEU:HD12	1.73	0.42
1:d:399:PRO:HD3	1:l:397:CYS:SG	2.60	0.42
1:f:86:TRP:CE3	1:f:192:THR:HG22	2.55	0.42
1:h:157:PHE:HB3	1:h:222:SER:HB3	2.01	0.42
1:i:295:ASP:OD1	1:i:332:ASP:HB2	2.20	0.42
1:i:343:THR:HB	1:i:508:GLN:HB3	2.01	0.42
1:i:397:CYS:SG	1:k:399:PRO:HD3	2.59	0.42
1:j:285:TRP:CZ3	1:k:416:GLN:NE2	2.87	0.42
1:j:399:PRO:HD3	1:k:397:CYS:SG	2.59	0.42
1:l:56:CYS:O	1:l:464:THR:HA	2.19	0.42
1:l:205:ASN:HB3	1:n:499:TYR:CZ	2.55	0.42
1:l:327:ALA:H	1:l:377:ARG:NH2	2.14	0.42
1:n:86:TRP:CE3	1:n:192:THR:HG22	2.55	0.42
1:o:293:MET:HB3	1:o:333:GLU:CG	2.49	0.42
1:q:102:CYS:HA	1:q:410:TYR:CE1	2.55	0.42
1:q:183:ILE:HD12	1:y:458:TYR:CE1	2.52	0.42
1:q:294:THR:HB	1:s:383:ALA:CB	2.50	0.42
1:q:310:ASP:HA	1:q:315:TYR:HA	2.00	0.42
1:q:383:ALA:HB2	1:r:294:THR:HB	2.02	0.42
1:r:343:THR:HB	1:r:508:GLN:HB3	2.01	0.42
1:s:69:ILE:O	1:s:88:GLY:N	2.47	0.42
1:s:156:ILE:HA	1:s:444:PHE:O	2.20	0.42
1:s:293:MET:HB3	1:s:333:GLU:CG	2.49	0.42
1:t:295:ASP:OD1	1:t:332:ASP:HB2	2.20	0.42
1:t:303:LEU:HD23	1:v:279:SER:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:102:CYS:HA	1:v:410:TYR:CE1	2.55	0.42
1:v:248:ARG:HH11	1:v:370:ARG:HA	1.84	0.42
1:v:499:TYR:CZ	1:w:205:ASN:HB3	2.55	0.42
1:w:294:THR:HB	1:y:383:ALA:HB2	2.02	0.42
1:w:294:THR:HB	1:y:383:ALA:CB	2.50	0.42
1:x:34:THR:HG1	1:x:131:ASN:H	1.65	0.42
1:x:383:ALA:CB	1:y:294:THR:HB	2.50	0.42
1:z:98:TYR:CE2	1:z:127:ILE:HD11	2.54	0.42
1:1:295:ASP:OD1	1:1:332:ASP:HB2	2.20	0.42
1:1:383:ALA:HB2	1:2:294:THR:HB	2.02	0.42
1:2:106:SER:HB3	1:4:483:TRP:CH2	2.54	0.42
1:3:397:CYS:SG	1:4:399:PRO:HD3	2.60	0.42
1:4:64:ASP:HA	1:4:92:PRO:HB3	2.01	0.42
1:4:364:SER:HB3	1:4:518:LEU:HD12	2.02	0.42
1:5:225:LEU:HD22	1:5:229:ASN:CB	2.48	0.42
1:5:364:SER:HB3	1:5:518:LEU:HD12	2.02	0.42
1:5:397:CYS:SG	1:7:399:PRO:HD3	2.60	0.42
1:5:511:LEU:HD12	1:5:511:LEU:HA	1.73	0.42
1:6:102:CYS:HA	1:6:410:TYR:CE1	2.54	0.42
1:6:295:ASP:OD1	1:6:332:ASP:HB2	2.20	0.42
1:7:156:ILE:HA	1:7:444:PHE:O	2.20	0.42
1:8:156:ILE:HA	1:8:444:PHE:O	2.20	0.42
1:8:295:ASP:OD1	1:8:332:ASP:HB2	2.20	0.42
1:A:156:ILE:HA	1:A:444:PHE:O	2.20	0.42
1:A:248:ARG:HH11	1:A:370:ARG:HA	1.84	0.42
1:A:293:MET:HB3	1:A:333:GLU:CG	2.49	0.42
1:A:399:PRO:HD3	1:G:397:CYS:SG	2.59	0.42
1:B:72:LYS:HA	1:B:207:LEU:HD11	2.02	0.42
1:D:294:THR:HB	1:P:383:ALA:HB2	2.02	0.42
1:E:277:HIS:HA	1:Q:84:THR:HB	2.01	0.42
1:E:478:HIS:CD2	1:E:527:LEU:HB3	2.55	0.42
1:F:86:TRP:CE3	1:F:192:THR:HG22	2.55	0.42
1:G:272:ASP:HB2	1:I:339:TRP:CZ2	2.54	0.42
1:G:383:ALA:HB2	1:I:294:THR:HB	2.02	0.42
1:I:86:TRP:CE3	1:I:192:THR:HG22	2.55	0.42
1:K:343:THR:HB	1:K:508:GLN:HB3	2.01	0.42
1:L:86:TRP:CE3	1:L:192:THR:HG22	2.55	0.42
1:M:84:THR:HB	1:b:277:HIS:HA	2.01	0.42
1:N:183:ILE:CD1	1:m:458:TYR:CZ	3.02	0.42
1:N:500:VAL:CG2	1:N:513:HIS:HB3	2.49	0.42
1:O:295:ASP:OD1	1:O:332:ASP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:102:CYS:HA	1:R:410:TYR:CE1	2.55	0.42
1:S:248:ARG:HH11	1:S:370:ARG:HA	1.84	0.42
1:T:157:PHE:HB3	1:T:222:SER:HB3	2.01	0.42
1:T:294:THR:HB	1:l:383:ALA:HB2	2.02	0.42
1:U:156:ILE:HA	1:U:444:PHE:O	2.20	0.42
1:U:293:MET:HB3	1:U:333:GLU:CG	2.49	0.42
1:U:364:SER:HB3	1:U:518:LEU:HD12	2.02	0.42
1:V:397:CYS:SG	1:X:399:PRO:HD3	2.60	0.42
1:W:295:ASP:OD1	1:W:332:ASP:HB2	2.20	0.42
1:X:293:MET:HB3	1:X:333:GLU:CG	2.49	0.42
1:X:364:SER:HB3	1:X:518:LEU:HD12	2.02	0.42
1:Y:295:ASP:OD1	1:Y:332:ASP:HB2	2.20	0.42
1:Z:225:LEU:HD22	1:Z:229:ASN:CB	2.48	0.42
1:Z:293:MET:HB3	1:Z:333:GLU:CG	2.49	0.42
1:c:56:CYS:O	1:c:464:THR:HA	2.19	0.42
1:c:294:THR:HB	1:p:383:ALA:CB	2.50	0.42
1:d:72:LYS:HA	1:d:207:LEU:HD11	2.01	0.42
1:d:364:SER:HB3	1:d:518:LEU:HD12	2.02	0.42
1:i:64:ASP:HA	1:i:92:PRO:HB3	2.01	0.42
1:i:294:THR:HB	1:k:383:ALA:CB	2.50	0.42
1:i:364:SER:HB3	1:i:518:LEU:HD12	2.02	0.42
1:j:295:ASP:OD1	1:j:332:ASP:HB2	2.20	0.42
1:j:383:ALA:HB2	1:k:294:THR:HB	2.02	0.42
1:k:69:ILE:O	1:k:88:GLY:N	2.47	0.42
1:l:295:ASP:OD1	1:l:332:ASP:HB2	2.20	0.42
1:m:383:ALA:HB2	1:n:294:THR:HB	2.02	0.42
1:n:72:LYS:HA	1:n:207:LEU:HD11	2.01	0.42
1:n:340:THR:OG1	1:n:512:ASN:ND2	2.30	0.42
1:n:364:SER:HB3	1:n:518:LEU:HD12	2.02	0.42
1:o:364:SER:HB3	1:o:518:LEU:HD12	2.02	0.42
1:o:399:PRO:HD3	1:p:397:CYS:SG	2.60	0.42
1:p:295:ASP:OD1	1:p:332:ASP:HB2	2.20	0.42
1:q:268:LEU:HD11	1:r:317:GLY:HA3	2.01	0.42
1:t:293:MET:HB3	1:t:333:GLU:CG	2.49	0.42
1:t:305:THR:O	1:v:389:VAL:CG1	2.68	0.42
1:t:364:SER:HB3	1:t:518:LEU:HD12	2.02	0.42
1:u:86:TRP:CE3	1:u:192:THR:HG22	2.55	0.42
1:u:383:ALA:HB2	1:v:294:THR:HB	2.02	0.42
1:u:399:PRO:HD3	1:v:397:CYS:SG	2.60	0.42
1:v:156:ILE:HA	1:v:444:PHE:O	2.20	0.42
1:v:262:ASP:OD1	1:v:263:THR:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:277:HIS:HA	1:x:84:THR:HB	2.01	0.42
1:w:364:SER:HB3	1:w:518:LEU:HD12	2.02	0.42
1:w:478:HIS:CD2	1:w:527:LEU:HB3	2.55	0.42
1:x:156:ILE:HA	1:x:444:PHE:O	2.20	0.42
1:x:383:ALA:HB2	1:y:294:THR:HB	2.02	0.42
1:z:86:TRP:CE3	1:z:192:THR:HG22	2.55	0.42
1:z:294:THR:HB	1:2:383:ALA:HB2	2.02	0.42
1:1:364:SER:HB3	1:1:518:LEU:HD12	2.02	0.42
1:2:156:ILE:HA	1:2:444:PHE:O	2.20	0.42
1:2:478:HIS:CD2	1:2:527:LEU:HB3	2.55	0.42
1:4:343:THR:HB	1:4:508:GLN:HB3	2.01	0.42
1:6:500:VAL:CG2	1:6:513:HIS:HB3	2.49	0.42
1:A:225:LEU:CD1	1:A:231:TRP:HB2	2.37	0.42
1:A:282:ARG:HB2	1:G:431:MET:HE3	2.02	0.42
1:B:86:TRP:CE3	1:B:192:THR:HG22	2.55	0.42
1:B:294:THR:HB	1:L:383:ALA:CB	2.50	0.42
1:D:317:GLY:HA3	1:P:268:LEU:HD11	2.01	0.42
1:D:500:VAL:CG2	1:D:513:HIS:HB3	2.49	0.42
1:E:383:ALA:HB2	1:Q:294:THR:HB	2.02	0.42
1:F:283:GLN:HA	1:F:284:PRO:HD3	1.70	0.42
1:F:294:THR:HB	1:Q:383:ALA:HB2	2.02	0.42
1:G:499:TYR:CZ	1:W:205:ASN:HB3	2.55	0.42
1:H:39:CYS:HB2	1:I:219:GLU:CA	2.34	0.42
1:H:137:LYS:HE2	1:H:137:LYS:HB3	1.73	0.42
1:I:102:CYS:HA	1:I:410:TYR:CE1	2.55	0.42
1:I:156:ILE:HA	1:I:444:PHE:O	2.20	0.42
1:I:157:PHE:HB3	1:I:222:SER:HB3	2.02	0.42
1:I:511:LEU:HD12	1:I:511:LEU:HA	1.73	0.42
1:J:156:ILE:HA	1:J:444:PHE:O	2.20	0.42
1:J:478:HIS:CD2	1:J:527:LEU:HB3	2.55	0.42
1:K:156:ILE:HA	1:K:444:PHE:O	2.20	0.42
1:K:277:HIS:HD2	1:a:84:THR:HG1	1.64	0.42
1:K:383:ALA:HB2	1:a:294:THR:HB	2.02	0.42
1:K:399:PRO:HD3	1:a:397:CYS:SG	2.60	0.42
1:K:458:TYR:CZ	1:7:183:ILE:CD1	3.02	0.42
1:L:102:CYS:HA	1:L:410:TYR:CE1	2.55	0.42
1:O:327:ALA:H	1:O:377:ARG:NH2	2.14	0.42
1:O:383:ALA:CB	1:m:294:THR:HB	2.50	0.42
1:Q:34:THR:HG1	1:Q:131:ASN:H	1.65	0.42
1:Q:156:ILE:HA	1:Q:444:PHE:O	2.20	0.42
1:R:83:LYS:HD3	1:R:83:LYS:HA	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:157:PHE:HB3	1:R:222:SER:HB3	2.01	0.42
1:S:262:ASP:OD1	1:S:263:THR:N	2.53	0.42
1:T:86:TRP:CE3	1:T:192:THR:HG22	2.55	0.42
1:T:383:ALA:HB2	1:d:294:THR:HB	2.02	0.42
1:T:397:CYS:SG	1:l:399:PRO:HD3	2.60	0.42
1:U:286:LEU:O	1:U:402:ILE:N	2.41	0.42
1:W:86:TRP:CE3	1:W:192:THR:HG22	2.55	0.42
1:X:157:PHE:HB3	1:X:222:SER:HB3	2.01	0.42
1:Y:157:PHE:HB3	1:Y:222:SER:HB3	2.01	0.42
1:Z:205:ASN:HB3	1:a:499:TYR:CZ	2.55	0.42
1:a:285:TRP:CZ3	1:8:416:GLN:NE2	2.88	0.42
1:b:72:LYS:HA	1:b:207:LEU:HD11	2.01	0.42
1:d:277:HIS:HA	1:l:84:THR:HB	2.02	0.42
1:f:277:HIS:HA	1:h:84:THR:HB	2.01	0.42
1:f:285:TRP:CZ3	1:h:416:GLN:NE2	2.87	0.42
1:g:156:ILE:HA	1:g:444:PHE:O	2.20	0.42
1:h:340:THR:OG1	1:h:512:ASN:ND2	2.30	0.42
1:h:511:LEU:HD12	1:h:511:LEU:HA	1.73	0.42
1:i:399:PRO:HD3	1:j:397:CYS:SG	2.60	0.42
1:i:500:VAL:CG2	1:i:513:HIS:HB3	2.49	0.42
1:l:86:TRP:CE3	1:l:192:THR:HG22	2.55	0.42
1:m:86:TRP:CE3	1:m:192:THR:HG22	2.55	0.42
1:n:478:HIS:CD2	1:n:527:LEU:HB3	2.55	0.42
1:o:40:ASN:HB3	1:7:221:PRO:HD3	2.02	0.42
1:r:86:TRP:CE3	1:r:192:THR:HG22	2.55	0.42
1:r:262:ASP:OD1	1:r:263:THR:N	2.53	0.42
1:r:310:ASP:HA	1:r:315:TYR:HA	2.00	0.42
1:r:383:ALA:HB2	1:s:294:THR:HB	2.02	0.42
1:s:286:LEU:O	1:s:402:ILE:N	2.41	0.42
1:s:364:SER:HB3	1:s:518:LEU:HD12	2.02	0.42
1:t:282:ARG:HB2	1:u:431:MET:HE3	2.02	0.42
1:t:317:GLY:HA3	1:v:268:LEU:HD11	2.02	0.42
1:u:102:CYS:HA	1:u:410:TYR:CE1	2.55	0.42
1:u:157:PHE:HB3	1:u:222:SER:HB3	2.01	0.42
1:u:219:GLU:CA	1:5:39:CYS:HB2	2.34	0.42
1:w:293:MET:HB3	1:w:333:GLU:CG	2.49	0.42
1:w:383:ALA:HB2	1:x:294:THR:HB	2.02	0.42
1:x:478:HIS:CD2	1:x:527:LEU:HB3	2.55	0.42
1:y:86:TRP:CE3	1:y:192:THR:HG22	2.55	0.42
1:2:499:TYR:CZ	1:3:205:ASN:HB3	2.54	0.42
1:3:294:THR:HB	1:4:383:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:499:TYR:CZ	1:8:205:ASN:HB3	2.55	0.42
1:4:286:LEU:O	1:4:402:ILE:N	2.41	0.42
1:5:98:TYR:CE2	1:5:127:ILE:HD11	2.54	0.42
1:5:383:ALA:CB	1:6:294:THR:HB	2.50	0.42
1:6:157:PHE:HB3	1:6:222:SER:HB3	2.01	0.42
1:7:157:PHE:HB3	1:7:222:SER:HB3	2.02	0.42
1:7:295:ASP:OD1	1:7:332:ASP:HB2	2.20	0.42
1:A:262:ASP:OD1	1:A:263:THR:N	2.53	0.41
1:A:458:TYR:CE1	1:B:183:ILE:HD12	2.50	0.41
1:A:499:TYR:CE2	1:E:205:ASN:HB3	2.54	0.41
1:B:364:SER:HB3	1:B:518:LEU:HD12	2.02	0.41
1:C:156:ILE:HA	1:C:444:PHE:O	2.20	0.41
1:C:478:HIS:CD2	1:C:527:LEU:HB3	2.55	0.41
1:D:295:ASP:OD1	1:D:332:ASP:HB2	2.20	0.41
1:D:399:PRO:HD3	1:N:397:CYS:SG	2.59	0.41
1:E:364:SER:HB3	1:E:518:LEU:HD12	2.02	0.41
1:F:221:PRO:HD3	1:R:40:ASN:HB3	2.02	0.41
1:H:114:ILE:HD11	1:H:524:THR:HG22	2.01	0.41
1:H:285:TRP:CZ3	1:W:416:GLN:NE2	2.87	0.41
1:I:39:CYS:HB2	1:J:219:GLU:CA	2.34	0.41
1:I:293:MET:HB3	1:I:333:GLU:CG	2.49	0.41
1:J:283:GLN:HA	1:J:284:PRO:HD3	1.70	0.41
1:K:86:TRP:CE3	1:K:192:THR:HG22	2.55	0.41
1:K:295:ASP:OD1	1:K:332:ASP:HB2	2.20	0.41
1:K:478:HIS:CD2	1:K:527:LEU:HB3	2.55	0.41
1:M:294:THR:HB	1:b:383:ALA:CB	2.50	0.41
1:N:399:PRO:HD3	1:P:397:CYS:SG	2.60	0.41
1:O:40:ASN:HB3	1:P:221:PRO:HD3	2.02	0.41
1:O:326:ARG:HG3	1:O:334:TYR:HB3	2.00	0.41
1:O:499:TYR:CZ	1:P:205:ASN:HB3	2.54	0.41
1:P:86:TRP:CE3	1:P:192:THR:HG22	2.55	0.41
1:P:326:ARG:HG3	1:P:334:TYR:HB3	2.01	0.41
1:P:364:SER:HB3	1:P:518:LEU:HD12	2.02	0.41
1:P:499:TYR:CZ	1:Q:205:ASN:HB3	2.54	0.41
1:Q:295:ASP:OD1	1:Q:332:ASP:HB2	2.20	0.41
1:Q:478:HIS:CD2	1:Q:527:LEU:HB3	2.55	0.41
1:S:268:LEU:HD11	1:U:317:GLY:HA3	2.01	0.41
1:S:295:ASP:OD1	1:S:332:ASP:HB2	2.20	0.41
1:S:383:ALA:HB2	1:U:294:THR:HB	2.02	0.41
1:U:183:ILE:CD1	1:e:458:TYR:CZ	3.03	0.41
1:V:277:HIS:HA	1:e:84:THR:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:294:THR:HB	1:X:383:ALA:HB2	2.02	0.41
1:X:397:CYS:SG	1:e:399:PRO:HD3	2.60	0.41
1:Y:72:LYS:HA	1:Y:207:LEU:HD11	2.02	0.41
1:Y:183:ILE:CD1	1:4:458:TYR:CZ	3.02	0.41
1:Z:221:PRO:HD3	1:a:40:ASN:HB3	2.02	0.41
1:Z:342:LYS:HG2	1:Z:362:TYR:CZ	2.56	0.41
1:Z:343:THR:HB	1:Z:508:GLN:HB3	2.01	0.41
1:c:399:PRO:HD3	1:o:397:CYS:SG	2.60	0.41
1:d:343:THR:HB	1:d:508:GLN:HB3	2.01	0.41
1:d:478:HIS:CD2	1:d:527:LEU:HB3	2.55	0.41
1:e:56:CYS:O	1:e:464:THR:HA	2.19	0.41
1:e:483:TRP:CH2	1:f:106:SER:HB3	2.54	0.41
1:f:72:LYS:HA	1:f:207:LEU:HD11	2.01	0.41
1:f:102:CYS:HA	1:f:410:TYR:CE1	2.55	0.41
1:f:383:ALA:CB	1:h:294:THR:HB	2.50	0.41
1:h:326:ARG:HG3	1:h:334:TYR:HB3	2.01	0.41
1:h:327:ALA:H	1:h:377:ARG:NH2	2.14	0.41
1:i:102:CYS:HA	1:i:410:TYR:CE1	2.54	0.41
1:j:205:ASN:HB3	1:l:499:TYR:CZ	2.54	0.41
1:j:221:PRO:HD3	1:l:40:ASN:HB3	2.02	0.41
1:j:268:LEU:HD11	1:k:317:GLY:HA3	2.01	0.41
1:k:295:ASP:OD1	1:k:332:ASP:HB2	2.20	0.41
1:l:511:LEU:HD12	1:l:511:LEU:HA	1.73	0.41
1:m:157:PHE:HB3	1:m:222:SER:HB3	2.01	0.41
1:m:225:LEU:HD22	1:m:229:ASN:CB	2.48	0.41
1:n:343:THR:HB	1:n:508:GLN:HB3	2.01	0.41
1:o:157:PHE:HB3	1:o:222:SER:HB3	2.01	0.41
1:o:383:ALA:HB2	1:p:294:THR:HB	2.02	0.41
1:p:102:CYS:HA	1:p:410:TYR:CE1	2.54	0.41
1:q:40:ASN:HB3	1:y:221:PRO:HD3	2.02	0.41
1:r:248:ARG:HH11	1:r:370:ARG:HA	1.84	0.41
1:r:295:ASP:OD1	1:r:332:ASP:HB2	2.20	0.41
1:s:249:SER:O	1:s:373:GLU:CG	2.54	0.41
1:t:205:ASN:HB3	1:y:499:TYR:CE2	2.55	0.41
1:t:383:ALA:HB2	1:u:294:THR:HB	2.02	0.41
1:u:156:ILE:HA	1:u:444:PHE:O	2.20	0.41
1:u:293:MET:HB3	1:u:333:GLU:CG	2.49	0.41
1:x:268:LEU:HD11	1:y:317:GLY:HA3	2.01	0.41
1:x:283:GLN:HA	1:x:284:PRO:HD3	1.70	0.41
1:x:295:ASP:OD1	1:x:332:ASP:HB2	2.20	0.41
1:y:478:HIS:CD2	1:y:527:LEU:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:383:ALA:CB	1:1:294:THR:HB	2.50	0.41
1:1:86:TRP:CE3	1:1:192:THR:HG22	2.55	0.41
1:3:72:LYS:HA	1:3:207:LEU:HD11	2.01	0.41
1:4:295:ASP:OD1	1:4:332:ASP:HB2	2.20	0.41
1:4:478:HIS:CD2	1:4:527:LEU:HB3	2.55	0.41
1:5:285:TRP:CZ3	1:6:416:GLN:NE2	2.87	0.41
1:6:86:TRP:CE3	1:6:192:THR:HG22	2.55	0.41
1:6:114:ILE:HD13	1:6:114:ILE:HA	1.75	0.41
1:7:72:LYS:HA	1:7:207:LEU:HD11	2.01	0.41
1:8:225:LEU:HD22	1:8:229:ASN:CB	2.48	0.41
1:8:343:THR:HB	1:8:508:GLN:HB3	2.01	0.41
1:A:502:MET:HE2	1:F:484:ASN:ND2	2.27	0.41
1:C:416:GLN:NE2	1:M:285:TRP:CZ3	2.87	0.41
1:D:383:ALA:HB2	1:N:294:THR:HB	2.02	0.41
1:E:399:PRO:HD3	1:Q:397:CYS:SG	2.60	0.41
1:F:478:HIS:CD2	1:F:527:LEU:HB3	2.55	0.41
1:H:98:TYR:CE2	1:H:127:ILE:HD11	2.54	0.41
1:H:342:LYS:HG2	1:H:362:TYR:CZ	2.56	0.41
1:H:383:ALA:CB	1:W:294:THR:HB	2.50	0.41
1:H:478:HIS:CD2	1:H:527:LEU:HB3	2.55	0.41
1:J:157:PHE:HB3	1:J:222:SER:HB3	2.01	0.41
1:J:295:ASP:OD1	1:J:332:ASP:HB2	2.20	0.41
1:L:262:ASP:OD1	1:L:263:THR:N	2.53	0.41
1:M:156:ILE:HA	1:M:444:PHE:O	2.20	0.41
1:M:416:GLN:NE2	1:b:285:TRP:CZ3	2.87	0.41
1:O:86:TRP:CE3	1:O:192:THR:HG22	2.55	0.41
1:P:183:ILE:HD12	1:Q:458:TYR:CE1	2.52	0.41
1:Q:69:ILE:O	1:Q:88:GLY:N	2.47	0.41
1:Q:327:ALA:H	1:Q:377:ARG:NH2	2.14	0.41
1:Q:499:TYR:CZ	1:S:205:ASN:HB3	2.55	0.41
1:R:205:ASN:HB3	1:V:499:TYR:CZ	2.55	0.41
1:R:262:ASP:OD1	1:R:263:THR:N	2.53	0.41
1:U:83:LYS:HD3	1:U:83:LYS:HA	1.78	0.41
1:U:249:SER:O	1:U:373:GLU:CG	2.54	0.41
1:W:249:SER:O	1:W:373:GLU:CG	2.54	0.41
1:X:40:ASN:HB3	1:Y:221:PRO:HD3	2.02	0.41
1:Z:86:TRP:CE3	1:Z:192:THR:HG22	2.55	0.41
1:Z:157:PHE:HB3	1:Z:222:SER:HB3	2.01	0.41
1:Z:268:LEU:HD11	1:4:317:GLY:HA3	2.01	0.41
1:a:327:ALA:H	1:a:377:ARG:NH2	2.14	0.41
1:b:102:CYS:HA	1:b:410:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:84:THR:HB	1:p:277:HIS:HA	2.01	0.41
1:c:102:CYS:HA	1:c:410:TYR:CE1	2.55	0.41
1:c:342:LYS:HG2	1:c:362:TYR:CZ	2.56	0.41
1:c:458:TYR:CZ	1:s:183:ILE:CD1	3.03	0.41
1:d:295:ASP:OD1	1:d:332:ASP:HB2	2.20	0.41
1:e:102:CYS:HA	1:e:410:TYR:CE1	2.55	0.41
1:e:295:ASP:OD1	1:e:332:ASP:HB2	2.20	0.41
1:e:342:LYS:HG2	1:e:362:TYR:CZ	2.56	0.41
1:f:294:THR:HB	1:g:383:ALA:CB	2.50	0.41
1:g:478:HIS:CD2	1:g:527:LEU:HB3	2.55	0.41
1:j:40:ASN:HB3	1:x:221:PRO:HD3	2.01	0.41
1:j:157:PHE:HB3	1:j:222:SER:HB3	2.01	0.41
1:j:183:ILE:HD12	1:x:458:TYR:CE1	2.52	0.41
1:j:499:TYR:CZ	1:x:205:ASN:HB3	2.54	0.41
1:k:500:VAL:CG2	1:k:513:HIS:HB3	2.49	0.41
1:m:295:ASP:OD1	1:m:332:ASP:HB2	2.20	0.41
1:p:40:ASN:HB3	1:q:221:PRO:HD3	2.01	0.41
1:p:499:TYR:CZ	1:q:205:ASN:HB3	2.55	0.41
1:q:86:TRP:CE3	1:q:192:THR:HG22	2.55	0.41
1:q:262:ASP:OD1	1:q:263:THR:N	2.53	0.41
1:r:268:LEU:HD11	1:s:317:GLY:HA3	2.01	0.41
1:r:327:ALA:H	1:r:377:ARG:NH2	2.14	0.41
1:s:86:TRP:CE3	1:s:192:THR:HG22	2.55	0.41
1:t:34:THR:HG1	1:t:131:ASN:H	1.61	0.41
1:t:399:PRO:HD3	1:u:397:CYS:SG	2.60	0.41
1:v:364:SER:HB3	1:v:518:LEU:HD12	2.02	0.41
1:w:399:PRO:HD3	1:x:397:CYS:SG	2.60	0.41
1:x:327:ALA:H	1:x:377:ARG:NH2	2.14	0.41
1:y:295:ASP:OD1	1:y:332:ASP:HB2	2.20	0.41
1:z:102:CYS:HA	1:z:410:TYR:CE1	2.55	0.41
1:z:262:ASP:OD1	1:z:263:THR:N	2.53	0.41
1:z:364:SER:HB3	1:z:518:LEU:HD12	2.02	0.41
1:2:295:ASP:OD1	1:2:332:ASP:HB2	2.20	0.41
1:3:40:ASN:HB3	1:8:221:PRO:HD3	2.02	0.41
1:3:327:ALA:H	1:3:377:ARG:NH2	2.14	0.41
1:4:86:TRP:CE3	1:4:192:THR:HG22	2.55	0.41
1:4:156:ILE:HA	1:4:444:PHE:O	2.20	0.41
1:5:114:ILE:HD11	1:5:524:THR:HG22	2.01	0.41
1:5:339:TRP:CZ2	1:7:272:ASP:HB2	2.54	0.41
1:5:342:LYS:HG2	1:5:362:TYR:CZ	2.56	0.41
1:8:342:LYS:HG2	1:8:362:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:137:LYS:HE2	1:B:137:LYS:HB3	1.73	0.41
1:B:458:TYR:CE1	1:C:183:ILE:HD12	2.52	0.41
1:B:458:TYR:CZ	1:C:183:ILE:CD1	3.03	0.41
1:B:478:HIS:CD2	1:B:527:LEU:HB3	2.55	0.41
1:C:294:THR:HB	1:M:383:ALA:CB	2.50	0.41
1:C:383:ALA:CB	1:b:294:THR:HB	2.50	0.41
1:D:364:SER:HB3	1:D:518:LEU:HD12	2.02	0.41
1:E:262:ASP:OD1	1:E:263:THR:N	2.53	0.41
1:F:295:ASP:OD1	1:F:332:ASP:HB2	2.20	0.41
1:F:317:GLY:HA3	1:Q:268:LEU:HD11	2.01	0.41
1:F:499:TYR:CZ	1:G:205:ASN:HB3	2.55	0.41
1:H:272:ASP:HB2	1:W:339:TRP:CZ2	2.54	0.41
1:H:294:THR:HB	1:Y:383:ALA:HB2	2.02	0.41
1:I:64:ASP:OD1	1:I:446:LYS:NZ	2.38	0.41
1:I:499:TYR:CZ	1:J:205:ASN:HB3	2.55	0.41
1:J:383:ALA:HB2	1:L:294:THR:HB	2.02	0.41
1:K:102:CYS:HA	1:K:410:TYR:CE1	2.54	0.41
1:L:295:ASP:OD1	1:L:332:ASP:HB2	2.20	0.41
1:L:339:TRP:HH2	1:L:358:THR:HG22	1.85	0.41
1:L:364:SER:HB3	1:L:518:LEU:HD12	2.02	0.41
1:O:309:VAL:HG21	1:n:376:ALA:HB1	2.03	0.41
1:O:383:ALA:HB2	1:m:294:THR:HB	2.02	0.41
1:O:478:HIS:CD2	1:O:527:LEU:HB3	2.55	0.41
1:P:40:ASN:HB3	1:Q:221:PRO:HD3	2.01	0.41
1:P:157:PHE:HB3	1:P:222:SER:HB3	2.02	0.41
1:Q:65:MET:HE3	1:Q:65:MET:HB2	1.92	0.41
1:Q:484:ASN:ND2	1:R:502:MET:HE2	2.27	0.41
1:R:86:TRP:CE3	1:R:192:THR:HG22	2.55	0.41
1:T:285:TRP:CZ3	1:d:416:GLN:NE2	2.87	0.41
1:U:86:TRP:CE3	1:U:192:THR:HG22	2.55	0.41
1:V:102:CYS:HA	1:V:410:TYR:CE1	2.54	0.41
1:W:383:ALA:CB	1:Y:294:THR:HB	2.50	0.41
1:W:383:ALA:HB2	1:Y:294:THR:HB	2.02	0.41
1:X:342:LYS:HG2	1:X:362:TYR:CZ	2.56	0.41
1:Y:40:ASN:HB3	1:4:221:PRO:HD3	2.01	0.41
1:a:72:LYS:HA	1:a:207:LEU:HD11	2.02	0.41
1:b:106:SER:HB3	1:c:483:TRP:CH2	2.54	0.41
1:c:295:ASP:OD1	1:c:332:ASP:HB2	2.20	0.41
1:d:376:ALA:HB1	1:l:309:VAL:HG21	2.03	0.41
1:g:65:MET:HE3	1:g:65:MET:HB2	1.92	0.41
1:g:183:ILE:CD1	1:1:458:TYR:CZ	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:416:GLN:NE2	1:h:285:TRP:CZ3	2.87	0.41
1:h:86:TRP:CE3	1:h:192:THR:HG22	2.55	0.41
1:i:86:TRP:CE3	1:i:192:THR:HG22	2.55	0.41
1:j:86:TRP:CE3	1:j:192:THR:HG22	2.55	0.41
1:l:326:ARG:HG3	1:l:334:TYR:HB3	2.00	0.41
1:l:458:TYR:CZ	1:n:183:ILE:CD1	3.02	0.41
1:n:157:PHE:HB3	1:n:222:SER:HB3	2.02	0.41
1:o:262:ASP:OD1	1:o:263:THR:N	2.53	0.41
1:o:342:LYS:HG2	1:o:362:TYR:CZ	2.56	0.41
1:p:478:HIS:CD2	1:p:527:LEU:HB3	2.55	0.41
1:r:205:ASN:HB3	1:x:499:TYR:CZ	2.55	0.41
1:s:295:ASP:OD1	1:s:332:ASP:HB2	2.20	0.41
1:t:309:VAL:HG21	1:v:376:ALA:HB1	2.02	0.41
1:t:383:ALA:CB	1:u:294:THR:HB	2.50	0.41
1:w:262:ASP:OD1	1:w:263:THR:N	2.53	0.41
1:w:283:GLN:HA	1:w:284:PRO:HD3	1.70	0.41
1:z:65:MET:HE3	1:z:65:MET:HB2	1.92	0.41
1:z:83:LYS:HA	1:z:83:LYS:HD3	1.78	0.41
1:z:156:ILE:HA	1:z:444:PHE:O	2.20	0.41
1:z:295:ASP:OD1	1:z:332:ASP:HB2	2.20	0.41
1:z:339:TRP:HH2	1:z:358:THR:HG22	1.86	0.41
1:1:156:ILE:HA	1:1:444:PHE:O	2.20	0.41
1:1:478:HIS:CD2	1:1:527:LEU:HB3	2.55	0.41
1:2:40:ASN:HB3	1:3:221:PRO:HD3	2.02	0.41
1:2:157:PHE:HB3	1:2:222:SER:HB3	2.01	0.41
1:2:283:GLN:HA	1:2:284:PRO:HD3	1.70	0.41
1:4:102:CYS:HA	1:4:410:TYR:CE1	2.54	0.41
1:5:294:THR:HB	1:7:383:ALA:HB2	2.02	0.41
1:6:249:SER:O	1:6:373:GLU:CG	2.54	0.41
1:8:157:PHE:HB3	1:8:222:SER:HB3	2.01	0.41
1:A:364:SER:HB3	1:A:518:LEU:HD12	2.02	0.41
1:B:156:ILE:HA	1:B:444:PHE:O	2.20	0.41
1:C:106:SER:HB3	1:L:483:TRP:CH2	2.54	0.41
1:C:268:LEU:HD11	1:b:317:GLY:HA3	2.01	0.41
1:C:279:SER:HB3	1:b:303:LEU:HD23	2.03	0.41
1:C:295:ASP:OD1	1:C:332:ASP:HB2	2.20	0.41
1:C:325:CYS:O	1:C:377:ARG:HA	2.21	0.41
1:E:295:ASP:OD1	1:E:332:ASP:HB2	2.20	0.41
1:F:325:CYS:O	1:F:377:ARG:HA	2.21	0.41
1:G:34:THR:HG1	1:G:131:ASN:H	1.61	0.41
1:G:459:VAL:HG12	1:G:461:GLU:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:225:LEU:HD22	1:I:229:ASN:CB	2.48	0.41
1:I:459:VAL:HG12	1:I:461:GLU:HG3	2.03	0.41
1:K:317:GLY:HA3	1:8:268:LEU:HD11	2.01	0.41
1:K:326:ARG:HG3	1:K:334:TYR:HB3	2.01	0.41
1:L:83:LYS:HA	1:L:83:LYS:HD3	1.78	0.41
1:L:478:HIS:CD2	1:L:527:LEU:HB3	2.55	0.41
1:M:86:TRP:CE3	1:M:192:THR:HG22	2.55	0.41
1:M:340:THR:OG1	1:M:512:ASN:ND2	2.30	0.41
1:N:86:TRP:CE3	1:N:192:THR:HG22	2.55	0.41
1:N:102:CYS:HA	1:N:410:TYR:CE1	2.55	0.41
1:Q:262:ASP:OD1	1:Q:263:THR:N	2.53	0.41
1:R:221:PRO:HD3	1:V:40:ASN:HB3	2.01	0.41
1:S:225:LEU:CD1	1:S:231:TRP:HB2	2.37	0.41
1:S:325:CYS:O	1:S:377:ARG:HA	2.21	0.41
1:S:364:SER:HB3	1:S:518:LEU:HD12	2.02	0.41
1:T:295:ASP:OD1	1:T:332:ASP:HB2	2.20	0.41
1:U:225:LEU:HD22	1:U:229:ASN:CB	2.48	0.41
1:U:286:LEU:HG	1:U:401:MET:HA	2.03	0.41
1:V:294:THR:HB	1:X:383:ALA:CB	2.50	0.41
1:V:478:HIS:CD2	1:V:527:LEU:HB3	2.55	0.41
1:X:159:ASP:HB2	1:X:444:PHE:HE2	1.86	0.41
1:X:262:ASP:OD1	1:X:263:THR:N	2.53	0.41
1:X:294:THR:HB	1:e:383:ALA:HB2	2.02	0.41
1:Z:102:CYS:HA	1:Z:410:TYR:CE1	2.54	0.41
1:Z:397:CYS:SG	1:3:399:PRO:HD3	2.60	0.41
1:b:339:TRP:HH2	1:b:358:THR:HG22	1.86	0.41
1:c:339:TRP:HH2	1:c:358:THR:HG22	1.86	0.41
1:d:157:PHE:HB3	1:d:222:SER:HB3	2.01	0.41
1:e:339:TRP:HH2	1:e:358:THR:HG22	1.86	0.41
1:e:364:SER:HB3	1:e:518:LEU:HD12	2.02	0.41
1:f:339:TRP:HH2	1:f:358:THR:HG22	1.86	0.41
1:g:40:ASN:HB3	1:1:221:PRO:HD3	2.01	0.41
1:g:294:THR:HB	1:h:383:ALA:CB	2.50	0.41
1:g:295:ASP:OD1	1:g:332:ASP:HB2	2.20	0.41
1:g:325:CYS:O	1:g:377:ARG:HA	2.21	0.41
1:h:156:ILE:HA	1:h:444:PHE:O	2.20	0.41
1:i:383:ALA:CB	1:j:294:THR:HB	2.50	0.41
1:j:364:SER:HB3	1:j:518:LEU:HD12	2.02	0.41
1:j:478:HIS:CD2	1:j:527:LEU:HB3	2.55	0.41
1:k:157:PHE:HB3	1:k:222:SER:HB3	2.01	0.41
1:l:156:ILE:HA	1:l:444:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:478:HIS:CD2	1:l:527:LEU:HB3	2.55	0.41
1:m:285:TRP:CZ3	1:n:416:GLN:NE2	2.87	0.41
1:n:295:ASP:OD1	1:n:332:ASP:HB2	2.20	0.41
1:o:156:ILE:HA	1:o:444:PHE:O	2.20	0.41
1:o:159:ASP:HB2	1:o:444:PHE:HE2	1.86	0.41
1:o:383:ALA:CB	1:p:294:THR:HB	2.50	0.41
1:p:364:SER:HB3	1:p:518:LEU:HD12	2.02	0.41
1:q:502:MET:HE2	1:x:484:ASN:ND2	2.27	0.41
1:r:156:ILE:HA	1:r:444:PHE:O	2.20	0.41
1:r:325:CYS:O	1:r:377:ARG:HA	2.21	0.41
1:t:458:TYR:CZ	1:y:183:ILE:CD1	3.01	0.41
1:t:459:VAL:HG12	1:t:461:GLU:HG3	2.03	0.41
1:u:225:LEU:HD22	1:u:229:ASN:CB	2.48	0.41
1:u:459:VAL:HG12	1:u:461:GLU:HG3	2.03	0.41
1:u:499:TYR:CZ	1:2:205:ASN:HB3	2.55	0.41
1:w:339:TRP:HH2	1:w:358:THR:HG22	1.86	0.41
1:y:325:CYS:O	1:y:377:ARG:HA	2.21	0.41
1:z:277:HIS:HA	1:1:84:THR:HB	2.01	0.41
1:z:399:PRO:HD3	1:1:397:CYS:SG	2.60	0.41
1:z:459:VAL:HG12	1:z:461:GLU:HG3	2.03	0.41
1:1:383:ALA:CB	1:2:294:THR:HB	2.50	0.41
1:3:295:ASP:OD1	1:3:332:ASP:HB2	2.20	0.41
1:4:326:ARG:HG3	1:4:334:TYR:HB3	2.00	0.41
1:5:272:ASP:HB2	1:6:339:TRP:CZ2	2.54	0.41
1:5:478:HIS:CD2	1:5:527:LEU:HB3	2.55	0.41
1:6:383:ALA:CB	1:7:294:THR:HB	2.50	0.41
1:8:86:TRP:CE3	1:8:192:THR:HG22	2.55	0.41
1:8:286:LEU:HG	1:8:401:MET:HA	2.03	0.41
1:B:84:THR:HB	1:L:277:HIS:HA	2.01	0.41
1:B:269:ARG:CD	1:J:296:GLY:O	2.69	0.41
1:B:325:CYS:O	1:B:377:ARG:HA	2.21	0.41
1:B:383:ALA:CB	1:J:294:THR:HB	2.50	0.41
1:B:397:CYS:SG	1:L:399:PRO:HD3	2.60	0.41
1:C:159:ASP:HB2	1:C:444:PHE:HE2	1.86	0.41
1:C:286:LEU:HG	1:C:401:MET:HA	2.03	0.41
1:D:157:PHE:HB3	1:D:222:SER:HB3	2.01	0.41
1:E:71:ASN:O	1:E:85:ALA:HA	2.21	0.41
1:E:339:TRP:HH2	1:E:358:THR:HG22	1.86	0.41
1:E:459:VAL:HG12	1:E:461:GLU:HG3	2.03	0.41
1:G:383:ALA:CB	1:I:294:THR:HB	2.50	0.41
1:H:458:TYR:CE1	1:Z:183:ILE:HD12	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:159:ASP:HB2	1:I:444:PHE:HE2	1.86	0.41
1:I:342:LYS:HG2	1:I:362:TYR:CZ	2.56	0.41
1:J:40:ASN:HB3	1:a:221:PRO:HD3	2.02	0.41
1:J:279:SER:HB3	1:L:303:LEU:HD23	2.03	0.41
1:J:342:LYS:HG2	1:J:362:TYR:CZ	2.56	0.41
1:K:221:PRO:HD3	1:7:40:ASN:HB3	2.01	0.41
1:L:40:ASN:HB3	1:b:221:PRO:HD3	2.02	0.41
1:L:156:ILE:HA	1:L:444:PHE:O	2.20	0.41
1:L:498:ALA:HB1	1:L:513:HIS:HB2	2.03	0.41
1:M:286:LEU:HG	1:M:401:MET:HA	2.03	0.41
1:M:478:HIS:CD2	1:M:527:LEU:HB3	2.55	0.41
1:N:325:CYS:O	1:N:377:ARG:HA	2.21	0.41
1:N:459:VAL:HG12	1:N:461:GLU:HG3	2.03	0.41
1:O:156:ILE:HA	1:O:444:PHE:O	2.20	0.41
1:P:478:HIS:CD2	1:P:527:LEU:HB3	2.55	0.41
1:Q:249:SER:O	1:Q:373:GLU:CG	2.54	0.41
1:Q:339:TRP:HH2	1:Q:358:THR:HG22	1.85	0.41
1:R:325:CYS:O	1:R:377:ARG:HA	2.21	0.41
1:S:156:ILE:HA	1:S:444:PHE:O	2.20	0.41
1:S:277:HIS:HA	1:U:84:THR:HB	2.01	0.41
1:S:342:LYS:HG2	1:S:362:TYR:CZ	2.56	0.41
1:T:383:ALA:CB	1:d:294:THR:HB	2.50	0.41
1:T:478:HIS:CD2	1:T:527:LEU:HB3	2.55	0.41
1:U:295:ASP:OD1	1:U:332:ASP:HB2	2.20	0.41
1:U:343:THR:HB	1:U:508:GLN:HB3	2.01	0.41
1:U:499:TYR:CZ	1:e:205:ASN:HB3	2.54	0.41
1:V:364:SER:HB3	1:V:518:LEU:HD12	2.02	0.41
1:W:71:ASN:O	1:W:85:ALA:HA	2.21	0.41
1:X:156:ILE:HA	1:X:444:PHE:O	2.20	0.41
1:X:478:HIS:CD2	1:X:527:LEU:HB3	2.55	0.41
1:Y:159:ASP:HB2	1:Y:444:PHE:HE2	1.86	0.41
1:Y:248:ARG:HH11	1:Y:370:ARG:HA	1.84	0.41
1:Y:325:CYS:O	1:Y:377:ARG:HA	2.21	0.41
1:Y:478:HIS:CD2	1:Y:527:LEU:HB3	2.55	0.41
1:Z:286:LEU:HG	1:Z:401:MET:HA	2.03	0.41
1:Z:305:THR:O	1:3:389:VAL:CG1	2.68	0.41
1:b:71:ASN:O	1:b:85:ALA:HA	2.21	0.41
1:c:205:ASN:HB3	1:s:499:TYR:CZ	2.54	0.41
1:c:364:SER:HB3	1:c:518:LEU:HD12	2.02	0.41
1:f:221:PRO:HD3	1:z:40:ASN:HB3	2.02	0.41
1:f:397:CYS:SG	1:g:399:PRO:HD3	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:159:ASP:HB2	1:g:444:PHE:HE2	1.86	0.41
1:g:183:ILE:HD12	1:1:458:TYR:CE1	2.52	0.41
1:h:183:ILE:CD1	1:i:458:TYR:CZ	3.03	0.41
1:h:328:GLU:H	1:h:328:GLU:CD	2.24	0.41
1:h:478:HIS:CD2	1:h:527:LEU:HB3	2.55	0.41
1:i:294:THR:HB	1:k:383:ALA:HB2	2.02	0.41
1:i:325:CYS:O	1:i:377:ARG:HA	2.21	0.41
1:j:498:ALA:HB1	1:j:513:HIS:HB2	2.03	0.41
1:k:205:ASN:HB3	1:w:499:TYR:CZ	2.54	0.41
1:k:364:SER:HB3	1:k:518:LEU:HD12	2.02	0.41
1:l:262:ASP:OD1	1:l:263:THR:N	2.53	0.41
1:m:383:ALA:CB	1:n:294:THR:HB	2.50	0.41
1:o:325:CYS:O	1:o:377:ARG:HA	2.21	0.41
1:o:478:HIS:CD2	1:o:527:LEU:HB3	2.55	0.41
1:p:458:TYR:CZ	1:6:183:ILE:CD1	3.03	0.41
1:q:325:CYS:O	1:q:377:ARG:HA	2.21	0.41
1:r:364:SER:HB3	1:r:518:LEU:HD12	2.02	0.41
1:s:286:LEU:HG	1:s:401:MET:HA	2.03	0.41
1:s:325:CYS:O	1:s:377:ARG:HA	2.21	0.41
1:s:343:THR:HB	1:s:508:GLN:HB3	2.01	0.41
1:t:256:ARG:HG3	1:u:168:LEU:H	1.86	0.41
1:t:262:ASP:OD1	1:t:263:THR:N	2.53	0.41
1:u:159:ASP:HB2	1:u:444:PHE:HE2	1.86	0.41
1:u:277:HIS:HA	1:v:84:THR:HB	2.01	0.41
1:u:342:LYS:HG2	1:u:362:TYR:CZ	2.55	0.41
1:u:364:SER:HB3	1:u:518:LEU:HD12	2.02	0.41
1:v:459:VAL:HG12	1:v:461:GLU:HG3	2.03	0.41
1:w:295:ASP:OD1	1:w:332:ASP:HB2	2.20	0.41
1:w:459:VAL:HG12	1:w:461:GLU:HG3	2.03	0.41
1:x:69:ILE:O	1:x:88:GLY:N	2.47	0.41
1:x:249:SER:O	1:x:373:GLU:CG	2.54	0.41
1:x:262:ASP:OD1	1:x:263:THR:N	2.53	0.41
1:z:71:ASN:O	1:z:85:ALA:HA	2.21	0.41
1:z:268:LEU:HD11	1:1:317:GLY:HA3	2.01	0.41
1:z:478:HIS:CD2	1:z:527:LEU:HB3	2.55	0.41
1:z:498:ALA:HB1	1:z:513:HIS:HB2	2.03	0.41
1:1:269:ARG:CD	1:2:296:GLY:O	2.69	0.41
1:2:342:LYS:HG2	1:2:362:TYR:CZ	2.56	0.41
1:5:458:TYR:CE1	1:8:183:ILE:HD12	2.52	0.41
1:6:71:ASN:O	1:6:85:ALA:HA	2.21	0.41
1:6:383:ALA:HB2	1:7:294:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:325:CYS:O	1:7:377:ARG:HA	2.21	0.41
1:7:343:THR:HB	1:7:508:GLN:HB3	2.01	0.41
1:7:478:HIS:CD2	1:7:527:LEU:HB3	2.55	0.41
1:8:102:CYS:HA	1:8:410:TYR:CE1	2.55	0.41
1:A:459:VAL:HG12	1:A:461:GLU:HG3	2.03	0.41
1:B:221:PRO:HD3	1:C:40:ASN:HB3	2.01	0.41
1:B:317:GLY:HA3	1:L:268:LEU:HD11	2.01	0.41
1:C:296:GLY:O	1:M:269:ARG:CD	2.69	0.41
1:C:399:PRO:HD3	1:b:397:CYS:SG	2.60	0.41
1:D:296:GLY:O	1:P:269:ARG:CD	2.69	0.41
1:E:283:GLN:HA	1:E:284:PRO:HD3	1.70	0.41
1:E:285:TRP:CZ3	1:Q:416:GLN:NE2	2.87	0.41
1:F:364:SER:HB3	1:F:518:LEU:HD12	2.02	0.41
1:H:295:ASP:OD1	1:H:332:ASP:HB2	2.20	0.41
1:H:511:LEU:HD12	1:H:511:LEU:HA	1.73	0.41
1:I:34:THR:HG1	1:I:131:ASN:H	1.65	0.41
1:I:295:ASP:OD1	1:I:332:ASP:HB2	2.20	0.41
1:I:364:SER:HB3	1:I:518:LEU:HD12	2.02	0.41
1:K:269:ARG:CD	1:a:296:GLY:O	2.69	0.41
1:K:286:LEU:O	1:K:402:ILE:N	2.42	0.41
1:K:342:LYS:HG2	1:K:362:TYR:CZ	2.56	0.41
1:K:397:CYS:SG	1:8:399:PRO:HD3	2.60	0.41
1:L:71:ASN:O	1:L:85:ALA:HA	2.21	0.41
1:L:459:VAL:HG12	1:L:461:GLU:HG3	2.03	0.41
1:M:294:THR:HB	1:b:383:ALA:HB2	2.02	0.41
1:M:317:GLY:HA3	1:b:268:LEU:HD11	2.01	0.41
1:N:383:ALA:CB	1:P:294:THR:HB	2.50	0.41
1:O:262:ASP:OD1	1:O:263:THR:N	2.53	0.41
1:O:458:TYR:CE1	1:d:183:ILE:HD12	2.51	0.41
1:O:458:TYR:CZ	1:d:183:ILE:CD1	3.03	0.41
1:P:325:CYS:O	1:P:377:ARG:HA	2.21	0.41
1:P:498:ALA:HB1	1:P:513:HIS:HB2	2.03	0.41
1:Q:342:LYS:HG2	1:Q:362:TYR:CZ	2.56	0.41
1:Q:459:VAL:HG12	1:Q:461:GLU:HG3	2.03	0.41
1:R:279:SER:HB3	1:S:303:LEU:HD23	2.03	0.41
1:R:342:LYS:HG2	1:R:362:TYR:CZ	2.56	0.41
1:R:478:HIS:CD2	1:R:527:LEU:HB3	2.55	0.41
1:S:71:ASN:O	1:S:85:ALA:HA	2.21	0.41
1:S:269:ARG:CD	1:U:296:GLY:O	2.69	0.41
1:T:72:LYS:HA	1:T:207:LEU:HD11	2.01	0.41
1:U:325:CYS:O	1:U:377:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:459:VAL:HG12	1:U:461:GLU:HG3	2.03	0.41
1:V:458:TYR:CZ	1:W:183:ILE:CD1	3.02	0.41
1:W:72:LYS:HA	1:W:207:LEU:HD11	2.02	0.41
1:X:325:CYS:O	1:X:377:ARG:HA	2.21	0.41
1:Y:327:ALA:H	1:Y:377:ARG:NH2	2.14	0.41
1:Y:343:THR:HB	1:Y:508:GLN:HB3	2.01	0.41
1:Z:399:PRO:HD3	1:4:397:CYS:SG	2.60	0.41
1:a:295:ASP:OD1	1:a:332:ASP:HB2	2.20	0.41
1:a:339:TRP:HH2	1:a:358:THR:HG22	1.86	0.41
1:a:389:VAL:CG1	1:8:305:THR:O	2.68	0.41
1:a:399:PRO:HD3	1:8:397:CYS:SG	2.60	0.41
1:b:295:ASP:OD1	1:b:332:ASP:HB2	2.20	0.41
1:c:71:ASN:O	1:c:85:ALA:HA	2.21	0.41
1:c:343:THR:HB	1:c:508:GLN:HB3	2.01	0.41
1:c:383:ALA:HB2	1:o:294:THR:HB	2.02	0.41
1:d:286:LEU:HG	1:d:401:MET:HA	2.03	0.41
1:d:340:THR:OG1	1:d:512:ASN:ND2	2.30	0.41
1:e:286:LEU:O	1:e:402:ILE:N	2.41	0.41
1:f:71:ASN:O	1:f:85:ALA:HA	2.21	0.41
1:f:159:ASP:HB2	1:f:444:PHE:HE2	1.86	0.41
1:f:268:LEU:HD11	1:h:317:GLY:HA3	2.01	0.41
1:f:295:ASP:OD1	1:f:332:ASP:HB2	2.20	0.41
1:f:303:LEU:HD23	1:g:279:SER:HB3	2.03	0.41
1:f:317:GLY:HA3	1:g:268:LEU:HD11	2.01	0.41
1:g:106:SER:HB3	1:z:483:TRP:CH2	2.54	0.41
1:g:286:LEU:HG	1:g:401:MET:HA	2.03	0.41
1:g:296:GLY:O	1:h:269:ARG:CD	2.69	0.41
1:g:502:MET:HE2	1:z:484:ASN:ND2	2.27	0.41
1:h:72:LYS:HA	1:h:207:LEU:HD11	2.01	0.41
1:i:459:VAL:HG12	1:i:461:GLU:HG3	2.03	0.41
1:j:72:LYS:HA	1:j:207:LEU:HD11	2.01	0.41
1:j:269:ARG:CD	1:k:296:GLY:O	2.69	0.41
1:l:458:TYR:CE1	1:n:183:ILE:HD12	2.51	0.41
1:m:478:HIS:CD2	1:m:527:LEU:HB3	2.55	0.41
1:n:71:ASN:O	1:n:85:ALA:HA	2.21	0.41
1:n:286:LEU:HG	1:n:401:MET:HA	2.03	0.41
1:q:340:THR:OG1	1:q:512:ASN:ND2	2.30	0.41
1:q:478:HIS:CD2	1:q:527:LEU:HB3	2.55	0.41
1:r:277:HIS:HA	1:s:84:THR:HB	2.01	0.41
1:r:342:LYS:HG2	1:r:362:TYR:CZ	2.56	0.41
1:s:225:LEU:HD22	1:s:229:ASN:CB	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:72:LYS:HA	1:t:207:LEU:HD11	2.01	0.41
1:t:84:THR:HB	1:v:277:HIS:HA	2.03	0.41
1:t:305:THR:O	1:v:389:VAL:CG2	2.68	0.41
1:u:295:ASP:OD1	1:u:332:ASP:HB2	2.20	0.41
1:v:221:PRO:HD3	1:1:40:ASN:HB3	2.02	0.41
1:w:285:TRP:CZ3	1:x:416:GLN:NE2	2.87	0.41
1:x:159:ASP:HB2	1:x:444:PHE:HE2	1.86	0.41
1:x:339:TRP:HH2	1:x:358:THR:HG22	1.85	0.41
1:x:342:LYS:HG2	1:x:362:TYR:CZ	2.56	0.41
1:x:459:VAL:HG12	1:x:461:GLU:HG3	2.03	0.41
1:z:157:PHE:HB3	1:z:222:SER:HB3	2.02	0.41
1:z:303:LEU:HD23	1:2:279:SER:HB3	2.03	0.41
1:z:416:GLN:NE2	1:2:285:TRP:CZ3	2.87	0.41
1:1:279:SER:HB3	1:2:303:LEU:HD23	2.03	0.41
1:3:339:TRP:HH2	1:3:358:THR:HG22	1.86	0.41
1:5:294:THR:HB	1:7:383:ALA:CB	2.50	0.41
1:6:72:LYS:HA	1:6:207:LEU:HD11	2.02	0.41
1:6:262:ASP:OD1	1:6:263:THR:N	2.53	0.41
1:6:459:VAL:HG12	1:6:461:GLU:HG3	2.03	0.41
1:7:159:ASP:HB2	1:7:444:PHE:HE2	1.86	0.41
1:7:283:GLN:HA	1:7:284:PRO:HD3	1.70	0.41
1:A:72:LYS:HA	1:A:207:LEU:HD11	2.01	0.41
1:A:478:HIS:CD2	1:A:527:LEU:HB3	2.55	0.41
1:B:279:SER:HB3	1:J:303:LEU:HD23	2.03	0.41
1:B:339:TRP:HH2	1:B:358:THR:HG22	1.85	0.41
1:C:502:MET:HE2	1:L:484:ASN:ND2	2.27	0.41
1:D:86:TRP:CE3	1:D:192:THR:HG22	2.55	0.41
1:D:205:ASN:HB3	1:E:499:TYR:CZ	2.55	0.41
1:D:459:VAL:HG12	1:D:461:GLU:HG3	2.03	0.41
1:E:325:CYS:O	1:E:377:ARG:HA	2.21	0.41
1:F:71:ASN:O	1:F:85:ALA:HA	2.21	0.41
1:G:65:MET:HE3	1:G:65:MET:HB2	1.92	0.41
1:G:71:ASN:O	1:G:85:ALA:HA	2.21	0.41
1:G:262:ASP:OD1	1:G:263:THR:N	2.53	0.41
1:G:279:SER:HB3	1:I:303:LEU:HD23	2.03	0.41
1:H:86:TRP:CE3	1:H:192:THR:HG22	2.55	0.41
1:H:294:THR:HB	1:Y:383:ALA:CB	2.50	0.41
1:H:303:LEU:HD23	1:Y:279:SER:HB3	2.03	0.41
1:J:159:ASP:HB2	1:J:444:PHE:HE2	1.86	0.41
1:K:498:ALA:HB1	1:K:513:HIS:HB2	2.03	0.41
1:M:71:ASN:O	1:M:85:ALA:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:72:LYS:HA	1:M:207:LEU:HD11	2.01	0.41
1:M:183:ILE:CD1	1:N:458:TYR:CZ	3.03	0.41
1:O:71:ASN:O	1:O:85:ALA:HA	2.21	0.41
1:O:305:THR:O	1:n:389:VAL:CG1	2.68	0.41
1:O:342:LYS:HG2	1:O:362:TYR:CZ	2.56	0.41
1:P:72:LYS:HA	1:P:207:LEU:HD11	2.01	0.41
1:Q:159:ASP:HB2	1:Q:444:PHE:HE2	1.86	0.41
1:Q:283:GLN:HA	1:Q:284:PRO:HD3	1.69	0.41
1:Q:325:CYS:O	1:Q:377:ARG:HA	2.21	0.41
1:R:296:GLY:O	1:U:269:ARG:CD	2.69	0.41
1:S:65:MET:HE3	1:S:65:MET:HB2	1.92	0.41
1:S:478:HIS:CD2	1:S:527:LEU:HB3	2.55	0.41
1:U:478:HIS:CD2	1:U:527:LEU:HB3	2.55	0.41
1:V:309:VAL:HG21	1:X:376:ALA:HB1	2.03	0.41
1:V:317:GLY:HA3	1:X:268:LEU:HD11	2.01	0.41
1:W:159:ASP:HB2	1:W:444:PHE:HE2	1.86	0.41
1:W:286:LEU:HG	1:W:401:MET:HA	2.03	0.41
1:X:498:ALA:HB1	1:X:513:HIS:HB2	2.03	0.41
1:Y:286:LEU:HG	1:Y:401:MET:HA	2.03	0.41
1:Z:225:LEU:CD1	1:Z:231:TRP:HB2	2.37	0.41
1:a:102:CYS:HA	1:a:410:TYR:CE1	2.54	0.41
1:b:137:LYS:HB3	1:b:137:LYS:HE2	1.73	0.41
1:b:159:ASP:HB2	1:b:444:PHE:HE2	1.86	0.41
1:b:325:CYS:O	1:b:377:ARG:HA	2.21	0.41
1:b:342:LYS:HG2	1:b:362:TYR:CZ	2.56	0.41
1:e:71:ASN:O	1:e:85:ALA:HA	2.21	0.41
1:f:325:CYS:O	1:f:377:ARG:HA	2.21	0.41
1:f:342:LYS:HG2	1:f:362:TYR:CZ	2.56	0.41
1:f:383:ALA:HB2	1:h:294:THR:HB	2.02	0.41
1:h:286:LEU:HG	1:h:401:MET:HA	2.03	0.41
1:h:339:TRP:HH2	1:h:358:THR:HG22	1.86	0.41
1:i:296:GLY:O	1:k:269:ARG:CD	2.69	0.41
1:j:325:CYS:O	1:j:377:ARG:HA	2.21	0.41
1:j:328:GLU:H	1:j:328:GLU:CD	2.24	0.41
1:l:339:TRP:HH2	1:l:358:THR:HG22	1.86	0.41
1:l:342:LYS:HG2	1:l:362:TYR:CZ	2.56	0.41
1:o:65:MET:HE3	1:o:65:MET:HB2	1.92	0.41
1:o:268:LEU:HD11	1:p:317:GLY:HA3	2.01	0.41
1:o:376:ALA:HB1	1:p:309:VAL:HG21	2.03	0.41
1:o:498:ALA:HB1	1:o:513:HIS:HB2	2.03	0.41
1:p:325:CYS:O	1:p:377:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:83:LYS:HD3	1:q:83:LYS:HA	1.78	0.41
1:q:159:ASP:HB2	1:q:444:PHE:HE2	1.86	0.41
1:q:279:SER:HB3	1:r:303:LEU:HD23	2.03	0.41
1:q:296:GLY:O	1:s:269:ARG:CD	2.69	0.41
1:q:342:LYS:HG2	1:q:362:TYR:CZ	2.56	0.41
1:r:71:ASN:O	1:r:85:ALA:HA	2.21	0.41
1:r:269:ARG:CD	1:s:296:GLY:O	2.69	0.41
1:r:459:VAL:HG12	1:r:461:GLU:HG3	2.03	0.41
1:r:478:HIS:CD2	1:r:527:LEU:HB3	2.55	0.41
1:r:498:ALA:HB1	1:r:513:HIS:HB2	2.03	0.41
1:s:114:ILE:HD11	1:s:524:THR:HG22	2.01	0.41
1:s:459:VAL:HG12	1:s:461:GLU:HG3	2.03	0.41
1:s:478:HIS:CD2	1:s:527:LEU:HB3	2.55	0.41
1:u:383:ALA:CB	1:v:294:THR:HB	2.50	0.41
1:v:295:ASP:OD1	1:v:332:ASP:HB2	2.20	0.41
1:w:71:ASN:O	1:w:85:ALA:HA	2.21	0.41
1:w:325:CYS:O	1:w:377:ARG:HA	2.21	0.41
1:x:65:MET:HE3	1:x:65:MET:HB2	1.92	0.41
1:x:325:CYS:O	1:x:377:ARG:HA	2.21	0.41
1:x:376:ALA:HB1	1:y:309:VAL:HG21	2.03	0.41
1:y:71:ASN:O	1:y:85:ALA:HA	2.21	0.41
1:z:294:THR:HB	1:2:383:ALA:CB	2.50	0.41
1:1:325:CYS:O	1:1:377:ARG:HA	2.21	0.41
1:1:339:TRP:HH2	1:1:358:THR:HG22	1.86	0.41
1:3:102:CYS:HA	1:3:410:TYR:CE1	2.55	0.41
1:3:296:GLY:O	1:4:269:ARG:CD	2.69	0.41
1:4:342:LYS:HG2	1:4:362:TYR:CZ	2.56	0.41
1:4:498:ALA:HB1	1:4:513:HIS:HB2	2.03	0.41
1:5:156:ILE:HA	1:5:444:PHE:O	2.20	0.41
1:6:34:THR:HG1	1:6:131:ASN:H	1.65	0.41
1:6:342:LYS:HG2	1:6:362:TYR:CZ	2.55	0.41
1:7:248:ARG:HH11	1:7:370:ARG:HA	1.84	0.41
1:7:327:ALA:H	1:7:377:ARG:NH2	2.14	0.41
1:A:159:ASP:HB2	1:A:444:PHE:HE2	1.86	0.41
1:A:295:ASP:OD1	1:A:332:ASP:HB2	2.20	0.41
1:A:397:CYS:SG	1:I:399:PRO:HD3	2.60	0.41
1:B:71:ASN:O	1:B:85:ALA:HA	2.21	0.41
1:D:269:ARG:CD	1:N:296:GLY:O	2.69	0.41
1:D:286:LEU:HG	1:D:401:MET:HA	2.03	0.41
1:E:159:ASP:HB2	1:E:444:PHE:HE2	1.86	0.41
1:F:309:VAL:HG21	1:Q:376:ALA:HB1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:342:LYS:HG2	1:F:362:TYR:CE1	2.56	0.41
1:F:527:LEU:HD23	1:F:527:LEU:HA	1.88	0.41
1:G:72:LYS:HA	1:G:207:LEU:HD11	2.02	0.41
1:G:478:HIS:CD2	1:G:527:LEU:HB3	2.55	0.41
1:H:83:LYS:HA	1:H:83:LYS:HD3	1.78	0.41
1:H:305:THR:O	1:Y:389:VAL:CG1	2.69	0.41
1:J:285:TRP:CZ3	1:L:416:GLN:NE2	2.87	0.41
1:K:71:ASN:O	1:K:85:ALA:HA	2.21	0.41
1:K:225:LEU:HD22	1:K:229:ASN:CB	2.48	0.41
1:K:325:CYS:O	1:K:377:ARG:HA	2.21	0.41
1:K:376:ALA:HB1	1:a:309:VAL:HG21	2.03	0.41
1:L:157:PHE:HB3	1:L:222:SER:HB3	2.02	0.41
1:M:114:ILE:HD11	1:M:524:THR:HG22	2.01	0.41
1:M:328:GLU:H	1:M:328:GLU:CD	2.24	0.41
1:M:364:SER:HB3	1:M:518:LEU:HD12	2.02	0.41
1:M:458:TYR:CZ	1:c:183:ILE:CD1	3.02	0.41
1:M:498:ALA:HB1	1:M:513:HIS:HB2	2.03	0.41
1:M:511:LEU:HD12	1:M:511:LEU:HA	1.73	0.41
1:N:342:LYS:HG2	1:N:362:TYR:CZ	2.56	0.41
1:N:478:HIS:CD2	1:N:527:LEU:HB3	2.55	0.41
1:O:339:TRP:HH2	1:O:358:THR:HG22	1.86	0.41
1:O:498:ALA:HB1	1:O:513:HIS:HB2	2.03	0.41
1:P:342:LYS:HG2	1:P:362:TYR:CZ	2.56	0.41
1:Q:364:SER:HB3	1:Q:518:LEU:HD12	2.02	0.41
1:Q:498:ALA:HB1	1:Q:513:HIS:HB2	2.03	0.41
1:R:159:ASP:HB2	1:R:444:PHE:HE2	1.86	0.41
1:S:342:LYS:HG2	1:S:362:TYR:CE1	2.56	0.41
1:S:498:ALA:HB1	1:S:513:HIS:HB2	2.03	0.41
1:S:511:LEU:HA	1:S:511:LEU:HD12	1.73	0.41
1:T:325:CYS:O	1:T:377:ARG:HA	2.21	0.41
1:T:376:ALA:HB1	1:d:309:VAL:HG21	2.03	0.41
1:U:262:ASP:OD1	1:U:263:THR:N	2.53	0.41
1:U:342:LYS:HG2	1:U:362:TYR:CE1	2.56	0.41
1:V:325:CYS:O	1:V:377:ARG:HA	2.21	0.41
1:V:342:LYS:HG2	1:V:362:TYR:CZ	2.56	0.41
1:V:376:ALA:HB1	1:e:309:VAL:HG21	2.03	0.41
1:W:114:ILE:HD13	1:W:114:ILE:HA	1.75	0.41
1:W:262:ASP:OD1	1:W:263:THR:N	2.53	0.41
1:W:342:LYS:HG2	1:W:362:TYR:CZ	2.55	0.41
1:W:478:HIS:CD2	1:W:527:LEU:HB3	2.55	0.41
1:X:71:ASN:O	1:X:85:ALA:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:364:SER:HB3	1:Z:518:LEU:HD12	2.02	0.41
1:a:342:LYS:HG2	1:a:362:TYR:CZ	2.56	0.41
1:d:71:ASN:O	1:d:85:ALA:HA	2.21	0.41
1:d:389:VAL:CG1	1:l:305:THR:O	2.68	0.41
1:e:183:ILE:CD1	1:h:458:TYR:CZ	3.02	0.41
1:e:343:THR:HB	1:e:508:GLN:HB3	2.01	0.41
1:g:262:ASP:OD1	1:g:263:THR:N	2.53	0.41
1:g:397:CYS:SG	1:h:399:PRO:HD3	2.60	0.41
1:h:71:ASN:O	1:h:85:ALA:HA	2.21	0.41
1:h:364:SER:HB3	1:h:518:LEU:HD12	2.02	0.41
1:j:484:ASN:ND2	1:w:502:MET:HE2	2.27	0.41
1:k:86:TRP:CE3	1:k:192:THR:HG22	2.55	0.41
1:l:71:ASN:O	1:l:85:ALA:HA	2.21	0.41
1:l:459:VAL:HG12	1:l:461:GLU:HG3	2.03	0.41
1:l:498:ALA:HB1	1:l:513:HIS:HB2	2.03	0.41
1:m:72:LYS:HA	1:m:207:LEU:HD11	2.01	0.41
1:m:98:TYR:CE2	1:m:127:ILE:HD11	2.54	0.41
1:m:376:ALA:HB1	1:n:309:VAL:HG21	2.03	0.41
1:p:342:LYS:HG2	1:p:362:TYR:CZ	2.56	0.41
1:p:498:ALA:HB1	1:p:513:HIS:HB2	2.03	0.41
1:q:269:ARG:CD	1:r:296:GLY:O	2.69	0.41
1:q:286:LEU:HG	1:q:401:MET:HA	2.03	0.41
1:q:339:TRP:HH2	1:q:358:THR:HG22	1.86	0.41
1:r:342:LYS:HG2	1:r:362:TYR:CE1	2.56	0.41
1:s:342:LYS:HG2	1:s:362:TYR:CE1	2.56	0.41
1:t:325:CYS:O	1:t:377:ARG:HA	2.21	0.41
1:u:64:ASP:OD1	1:u:446:LYS:NZ	2.38	0.41
1:v:478:HIS:CD2	1:v:527:LEU:HB3	2.55	0.41
1:w:296:GLY:O	1:y:269:ARG:CD	2.69	0.41
1:y:342:LYS:HG2	1:y:362:TYR:CE1	2.56	0.41
1:z:296:GLY:O	1:2:269:ARG:CD	2.69	0.41
1:z:342:LYS:HG2	1:z:362:TYR:CZ	2.56	0.41
1:1:262:ASP:OD1	1:1:263:THR:N	2.53	0.41
1:2:72:LYS:HA	1:2:207:LEU:HD11	2.01	0.41
1:3:309:VAL:HG21	1:4:376:ALA:HB1	2.03	0.41
1:3:342:LYS:HG2	1:3:362:TYR:CE1	2.56	0.41
1:4:71:ASN:O	1:4:85:ALA:HA	2.21	0.41
1:4:325:CYS:O	1:4:377:ARG:HA	2.21	0.41
1:5:86:TRP:CE3	1:5:192:THR:HG22	2.55	0.41
1:5:295:ASP:OD1	1:5:332:ASP:HB2	2.20	0.41
1:5:303:LEU:HD23	1:7:279:SER:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:159:ASP:HB2	1:6:444:PHE:HE2	1.86	0.41
1:6:286:LEU:HG	1:6:401:MET:HA	2.03	0.41
1:6:478:HIS:CD2	1:6:527:LEU:HB3	2.55	0.41
1:7:34:THR:HG1	1:7:131:ASN:H	1.65	0.41
1:7:286:LEU:HG	1:7:401:MET:HA	2.03	0.41
1:8:364:SER:HB3	1:8:518:LEU:HD12	2.02	0.41
1:A:221:PRO:HD3	1:B:40:ASN:HB3	2.02	0.41
1:A:305:THR:O	1:I:389:VAL:CG1	2.68	0.41
1:B:83:LYS:HB2	1:L:277:HIS:CE1	2.56	0.41
1:B:262:ASP:OD1	1:B:263:THR:N	2.53	0.41
1:B:294:THR:HB	1:L:383:ALA:HB2	2.02	0.41
1:B:305:THR:O	1:L:389:VAL:CG1	2.69	0.41
1:B:389:VAL:CG1	1:J:305:THR:O	2.69	0.41
1:B:498:ALA:HB1	1:B:513:HIS:HB2	2.03	0.41
1:C:65:MET:HE3	1:C:65:MET:HB2	1.92	0.41
1:C:83:LYS:HB2	1:M:277:HIS:CE1	2.56	0.41
1:C:262:ASP:OD1	1:C:263:THR:N	2.53	0.41
1:C:269:ARG:CD	1:b:296:GLY:O	2.69	0.41
1:C:397:CYS:SG	1:M:399:PRO:HD3	2.60	0.41
1:D:48:ILE:CD1	1:D:113:LEU:HD13	2.51	0.41
1:D:71:ASN:O	1:D:85:ALA:HA	2.21	0.41
1:D:309:VAL:HG21	1:P:376:ALA:HB1	2.03	0.41
1:D:325:CYS:O	1:D:377:ARG:HA	2.21	0.41
1:D:342:LYS:HG2	1:D:362:TYR:CZ	2.55	0.41
1:D:498:ALA:HB1	1:D:513:HIS:HB2	2.03	0.41
1:E:296:GLY:O	1:F:269:ARG:CD	2.69	0.41
1:E:303:LEU:HD23	1:F:279:SER:HB3	2.03	0.41
1:E:342:LYS:HG2	1:E:362:TYR:CZ	2.56	0.41
1:E:376:ALA:HB1	1:Q:309:VAL:HG21	2.03	0.41
1:E:389:VAL:CG1	1:Q:305:THR:O	2.69	0.41
1:E:416:GLN:NE2	1:F:285:TRP:CZ3	2.87	0.41
1:E:502:MET:HE2	1:P:484:ASN:ND2	2.27	0.41
1:F:342:LYS:HG2	1:F:362:TYR:CZ	2.56	0.41
1:F:498:ALA:HB1	1:F:513:HIS:HB2	2.03	0.41
1:G:159:ASP:HB2	1:G:444:PHE:HE2	1.86	0.41
1:G:225:LEU:HD22	1:G:229:ASN:CB	2.48	0.41
1:G:277:HIS:CE1	1:I:83:LYS:HB2	2.56	0.41
1:G:325:CYS:O	1:G:377:ARG:HA	2.21	0.41
1:G:339:TRP:HH2	1:G:358:THR:HG22	1.86	0.41
1:G:342:LYS:HG2	1:G:362:TYR:CZ	2.56	0.41
1:H:156:ILE:HA	1:H:444:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:279:SER:HB3	1:W:303:LEU:HD23	2.03	0.41
1:H:296:GLY:O	1:Y:269:ARG:CD	2.69	0.41
1:H:339:TRP:HH2	1:H:358:THR:HG22	1.86	0.41
1:I:71:ASN:O	1:I:85:ALA:HA	2.21	0.41
1:I:339:TRP:HH2	1:I:358:THR:HG22	1.85	0.41
1:I:498:ALA:HB1	1:I:513:HIS:HB2	2.03	0.41
1:J:72:LYS:HA	1:J:207:LEU:HD11	2.02	0.41
1:J:269:ARG:CD	1:L:296:GLY:O	2.69	0.41
1:J:383:ALA:CB	1:L:294:THR:HB	2.50	0.41
1:J:511:LEU:HA	1:J:511:LEU:HD12	1.73	0.41
1:K:72:LYS:HA	1:K:207:LEU:HD11	2.01	0.41
1:K:168:LEU:H	1:8:256:ARG:HG3	1.86	0.41
1:K:262:ASP:OD1	1:K:263:THR:N	2.53	0.41
1:K:277:HIS:CE1	1:a:83:LYS:HB2	2.56	0.41
1:K:478:HIS:HB3	1:K:527:LEU:HD13	2.03	0.41
1:L:38:THR:O	1:L:38:THR:HG23	2.21	0.41
1:L:342:LYS:HG2	1:L:362:TYR:CE1	2.56	0.41
1:L:342:LYS:HG2	1:L:362:TYR:CZ	2.56	0.41
1:M:225:LEU:HD22	1:M:229:ASN:CB	2.48	0.41
1:M:339:TRP:HH2	1:M:358:THR:HG22	1.86	0.41
1:N:71:ASN:O	1:N:85:ALA:HA	2.21	0.41
1:N:342:LYS:HG2	1:N:362:TYR:CE1	2.56	0.41
1:N:376:ALA:HB1	1:P:309:VAL:HG21	2.03	0.41
1:O:256:ARG:HG3	1:m:168:LEU:H	1.86	0.41
1:O:282:ARG:HB2	1:m:431:MET:HE3	2.03	0.41
1:O:303:LEU:HD23	1:n:279:SER:HB3	2.03	0.41
1:O:305:THR:O	1:n:389:VAL:CG2	2.69	0.41
1:O:459:VAL:HG12	1:O:461:GLU:HG3	2.03	0.41
1:P:328:GLU:H	1:P:328:GLU:CD	2.24	0.41
1:P:339:TRP:HH2	1:P:358:THR:HG22	1.86	0.41
1:R:269:ARG:CD	1:S:296:GLY:O	2.69	0.41
1:R:285:TRP:CZ3	1:S:416:GLN:NE2	2.87	0.41
1:R:286:LEU:HG	1:R:401:MET:HA	2.03	0.41
1:R:339:TRP:HH2	1:R:358:THR:HG22	1.86	0.41
1:R:376:ALA:HB1	1:S:309:VAL:HG21	2.03	0.41
1:R:383:ALA:CB	1:S:294:THR:HB	2.50	0.41
1:S:459:VAL:HG12	1:S:461:GLU:HG3	2.03	0.41
1:T:98:TYR:CE2	1:T:127:ILE:HD11	2.54	0.41
1:T:168:LEU:H	1:l:256:ARG:HG3	1.86	0.41
1:T:279:SER:HB3	1:d:303:LEU:HD23	2.03	0.41
1:T:339:TRP:HH2	1:T:358:THR:HG22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:342:LYS:HG2	1:T:362:TYR:CE1	2.56	0.41
1:T:389:VAL:CG1	1:d:305:THR:O	2.69	0.41
1:U:114:ILE:HD11	1:U:524:THR:HG22	2.01	0.41
1:U:159:ASP:HB2	1:U:444:PHE:HE2	1.86	0.41
1:V:38:THR:HG23	1:V:38:THR:O	2.21	0.41
1:V:269:ARG:CD	1:e:296:GLY:O	2.69	0.41
1:V:342:LYS:HG2	1:V:362:TYR:CE1	2.56	0.41
1:V:389:VAL:CG1	1:e:305:THR:O	2.69	0.41
1:V:498:ALA:HB1	1:V:513:HIS:HB2	2.03	0.41
1:W:48:ILE:CD1	1:W:113:LEU:HD13	2.51	0.41
1:W:277:HIS:CE1	1:Y:83:LYS:HB2	2.56	0.41
1:W:339:TRP:HH2	1:W:358:THR:HG22	1.86	0.41
1:W:459:VAL:HG12	1:W:461:GLU:HG3	2.03	0.41
1:X:295:ASP:OD1	1:X:332:ASP:HB2	2.20	0.41
1:X:305:THR:O	1:e:389:VAL:CG1	2.69	0.41
1:X:343:THR:HB	1:X:508:GLN:HB3	2.01	0.41
1:X:459:VAL:HG12	1:X:461:GLU:HG3	2.03	0.41
1:Y:48:ILE:CD1	1:Y:113:LEU:HD13	2.51	0.41
1:Y:478:HIS:HB3	1:Y:527:LEU:HD13	2.03	0.41
1:Y:498:ALA:HB1	1:Y:513:HIS:HB2	2.03	0.41
1:Z:71:ASN:O	1:Z:85:ALA:HA	2.21	0.41
1:Z:256:ARG:HG3	1:4:168:LEU:H	1.86	0.41
1:Z:285:TRP:CZ3	1:4:416:GLN:NE2	2.87	0.41
1:Z:296:GLY:O	1:3:269:ARG:CD	2.69	0.41
1:Z:309:VAL:HG21	1:3:376:ALA:HB1	2.03	0.41
1:a:48:ILE:CD1	1:a:113:LEU:HD13	2.51	0.41
1:a:137:LYS:HB3	1:a:137:LYS:HE2	1.73	0.41
1:a:157:PHE:HB3	1:a:222:SER:HB3	2.01	0.41
1:a:269:ARG:CD	1:8:296:GLY:O	2.69	0.41
1:a:325:CYS:O	1:a:377:ARG:HA	2.21	0.41
1:a:342:LYS:HG2	1:a:362:TYR:CE1	2.56	0.41
1:a:376:ALA:HB1	1:8:309:VAL:HG21	2.03	0.41
1:b:342:LYS:HG2	1:b:362:TYR:CE1	2.56	0.41
1:b:459:VAL:HG12	1:b:461:GLU:HG3	2.03	0.41
1:c:286:LEU:O	1:c:402:ILE:N	2.41	0.41
1:c:296:GLY:O	1:p:269:ARG:CD	2.69	0.41
1:c:305:THR:O	1:p:389:VAL:CG1	2.69	0.41
1:c:309:VAL:HG21	1:p:376:ALA:HB1	2.03	0.41
1:c:389:VAL:CG1	1:o:305:THR:O	2.69	0.41
1:c:459:VAL:HG12	1:c:461:GLU:HG3	2.03	0.41
1:c:478:HIS:CD2	1:c:527:LEU:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:269:ARG:CD	1:l:296:GLY:O	2.69	0.41
1:d:342:LYS:HG2	1:d:362:TYR:CZ	2.56	0.41
1:d:389:VAL:CG2	1:l:305:THR:O	2.69	0.41
1:e:342:LYS:HG2	1:e:362:TYR:CE1	2.56	0.41
1:e:459:VAL:HG12	1:e:461:GLU:HG3	2.03	0.41
1:e:478:HIS:CD2	1:e:527:LEU:HB3	2.55	0.41
1:f:269:ARG:CD	1:h:296:GLY:O	2.69	0.41
1:f:296:GLY:O	1:g:269:ARG:CD	2.69	0.41
1:f:342:LYS:HG2	1:f:362:TYR:CE1	2.56	0.41
1:f:459:VAL:HG12	1:f:461:GLU:HG3	2.03	0.41
1:g:83:LYS:HB2	1:h:277:HIS:CE1	2.56	0.41
1:g:339:TRP:HH2	1:g:358:THR:HG22	1.85	0.41
1:h:225:LEU:HD22	1:h:229:ASN:CB	2.48	0.41
1:h:325:CYS:O	1:h:377:ARG:HA	2.21	0.41
1:h:498:ALA:HB1	1:h:513:HIS:HB2	2.03	0.41
1:i:71:ASN:O	1:i:85:ALA:HA	2.21	0.41
1:i:342:LYS:HG2	1:i:362:TYR:CE1	2.56	0.41
1:i:342:LYS:HG2	1:i:362:TYR:CZ	2.56	0.41
1:i:376:ALA:HB1	1:j:309:VAL:HG21	2.03	0.41
1:i:478:HIS:CD2	1:i:527:LEU:HB3	2.55	0.41
1:j:339:TRP:HH2	1:j:358:THR:HG22	1.85	0.41
1:j:342:LYS:HG2	1:j:362:TYR:CZ	2.56	0.41
1:k:48:ILE:CD1	1:k:113:LEU:HD13	2.51	0.41
1:k:339:TRP:HH2	1:k:358:THR:HG22	1.85	0.41
1:k:342:LYS:HG2	1:k:362:TYR:CZ	2.55	0.41
1:k:459:VAL:HG12	1:k:461:GLU:HG3	2.03	0.41
1:k:498:ALA:HB1	1:k:513:HIS:HB2	2.03	0.41
1:l:48:ILE:CD1	1:l:113:LEU:HD13	2.51	0.41
1:m:279:SER:HB3	1:n:303:LEU:HD23	2.03	0.41
1:m:342:LYS:HG2	1:m:362:TYR:CE1	2.56	0.41
1:m:389:VAL:CG1	1:n:305:THR:O	2.69	0.41
1:o:71:ASN:O	1:o:85:ALA:HA	2.21	0.41
1:o:295:ASP:OD1	1:o:332:ASP:HB2	2.20	0.41
1:o:343:THR:HB	1:o:508:GLN:HB3	2.01	0.41
1:p:38:THR:HG23	1:p:38:THR:O	2.21	0.41
1:p:342:LYS:HG2	1:p:362:TYR:CE1	2.56	0.41
1:q:383:ALA:CB	1:r:294:THR:HB	2.50	0.41
1:r:65:MET:HE3	1:r:65:MET:HB2	1.92	0.41
1:r:376:ALA:HB1	1:s:309:VAL:HG21	2.03	0.41
1:r:511:LEU:HA	1:r:511:LEU:HD12	1.73	0.41
1:s:262:ASP:OD1	1:s:263:THR:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:342:LYS:HG2	1:s:362:TYR:CZ	2.56	0.41
1:t:39:CYS:HB2	1:6:219:GLU:CA	2.37	0.41
1:t:71:ASN:O	1:t:85:ALA:HA	2.21	0.41
1:t:339:TRP:HH2	1:t:358:THR:HG22	1.86	0.41
1:t:478:HIS:CD2	1:t:527:LEU:HB3	2.55	0.41
1:u:71:ASN:O	1:u:85:ALA:HA	2.21	0.41
1:u:183:ILE:CD1	1:2:458:TYR:CZ	3.03	0.41
1:u:325:CYS:O	1:u:377:ARG:HA	2.21	0.41
1:u:498:ALA:HB1	1:u:513:HIS:HB2	2.03	0.41
1:v:38:THR:O	1:v:38:THR:HG23	2.21	0.41
1:v:72:LYS:HA	1:v:207:LEU:HD11	2.02	0.41
1:v:159:ASP:HB2	1:v:444:PHE:HE2	1.86	0.41
1:v:339:TRP:HH2	1:v:358:THR:HG22	1.85	0.41
1:v:458:TYR:CZ	1:1:183:ILE:CD1	3.02	0.41
1:v:502:MET:HE2	1:y:484:ASN:ND2	2.27	0.41
1:w:159:ASP:HB2	1:w:444:PHE:HE2	1.86	0.41
1:w:277:HIS:CE1	1:x:83:LYS:HB2	2.56	0.41
1:w:303:LEU:HD23	1:y:279:SER:HB3	2.03	0.41
1:w:342:LYS:HG2	1:w:362:TYR:CZ	2.56	0.41
1:w:376:ALA:HB1	1:x:309:VAL:HG21	2.03	0.41
1:w:383:ALA:CB	1:x:294:THR:HB	2.50	0.41
1:w:389:VAL:CG1	1:x:305:THR:O	2.69	0.41
1:w:416:GLN:NE2	1:y:285:TRP:CZ3	2.87	0.41
1:x:157:PHE:HB3	1:x:222:SER:HB3	2.01	0.41
1:x:269:ARG:CD	1:y:296:GLY:O	2.69	0.41
1:x:364:SER:HB3	1:x:518:LEU:HD12	2.02	0.41
1:x:498:ALA:HB1	1:x:513:HIS:HB2	2.03	0.41
1:y:48:ILE:CD1	1:y:113:LEU:HD13	2.51	0.41
1:y:339:TRP:HH2	1:y:358:THR:HG22	1.85	0.41
1:y:342:LYS:HG2	1:y:362:TYR:CZ	2.55	0.41
1:y:364:SER:HB3	1:y:518:LEU:HD12	2.02	0.41
1:y:498:ALA:HB1	1:y:513:HIS:HB2	2.03	0.41
1:z:38:THR:O	1:z:38:THR:HG23	2.21	0.41
1:z:277:HIS:CE1	1:1:83:LYS:HB2	2.56	0.41
1:z:342:LYS:HG2	1:z:362:TYR:CE1	2.56	0.41
1:1:71:ASN:O	1:1:85:ALA:HA	2.21	0.41
1:1:137:LYS:HE2	1:1:137:LYS:HB3	1.73	0.41
1:1:389:VAL:CG1	1:2:305:THR:O	2.69	0.41
1:2:159:ASP:HB2	1:2:444:PHE:HE2	1.86	0.41
1:2:364:SER:HB3	1:2:518:LEU:HD12	2.02	0.41
1:3:48:ILE:CD1	1:3:113:LEU:HD13	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:83:LYS:HB2	1:4:277:HIS:CE1	2.56	0.41
1:3:137:LYS:HE2	1:3:137:LYS:HB3	1.73	0.41
1:3:157:PHE:HB3	1:3:222:SER:HB3	2.01	0.41
1:3:286:LEU:HG	1:3:401:MET:HA	2.03	0.41
1:3:325:CYS:O	1:3:377:ARG:HA	2.21	0.41
1:3:342:LYS:HG2	1:3:362:TYR:CZ	2.56	0.41
1:4:72:LYS:HA	1:4:207:LEU:HD11	2.01	0.41
1:4:262:ASP:OD1	1:4:263:THR:N	2.53	0.41
1:5:279:SER:HB3	1:6:303:LEU:HD23	2.03	0.41
1:5:296:GLY:O	1:7:269:ARG:CD	2.69	0.41
1:5:305:THR:O	1:7:389:VAL:CG1	2.69	0.41
1:5:458:TYR:CZ	1:8:183:ILE:CD1	3.02	0.41
1:6:364:SER:HB3	1:6:518:LEU:HD12	2.02	0.41
1:7:48:ILE:CD1	1:7:113:LEU:HD13	2.51	0.41
1:7:71:ASN:O	1:7:85:ALA:HA	2.21	0.41
1:8:71:ASN:O	1:8:85:ALA:HA	2.21	0.41
1:8:262:ASP:OD1	1:8:263:THR:N	2.53	0.41
1:8:339:TRP:HH2	1:8:358:THR:HG22	1.86	0.41
1:A:256:ARG:HG3	1:G:168:LEU:H	1.85	0.41
1:A:286:LEU:O	1:A:402:ILE:N	2.41	0.41
1:A:339:TRP:HH2	1:A:358:THR:HG22	1.85	0.41
1:A:478:HIS:HB3	1:A:527:LEU:HD13	2.03	0.41
1:A:499:TYR:CZ	1:E:205:ASN:HB3	2.56	0.41
1:B:65:MET:HE3	1:B:65:MET:HB2	1.92	0.41
1:B:286:LEU:HG	1:B:401:MET:HA	2.03	0.41
1:B:342:LYS:HG2	1:B:362:TYR:CE1	2.56	0.41
1:C:277:HIS:CE1	1:b:83:LYS:HB2	2.56	0.41
1:C:305:THR:O	1:M:389:VAL:CG1	2.69	0.41
1:C:339:TRP:HH2	1:C:358:THR:HG22	1.85	0.41
1:D:294:THR:HB	1:P:383:ALA:CB	2.50	0.41
1:D:339:TRP:HH2	1:D:358:THR:HG22	1.86	0.41
1:E:48:ILE:CD1	1:E:113:LEU:HD13	2.51	0.41
1:E:277:HIS:CE1	1:Q:83:LYS:HB2	2.56	0.41
1:E:383:ALA:CB	1:Q:294:THR:HB	2.50	0.41
1:F:48:ILE:CD1	1:F:113:LEU:HD13	2.51	0.41
1:F:183:ILE:HD12	1:G:458:TYR:CE1	2.51	0.41
1:F:296:GLY:O	1:Q:269:ARG:CD	2.69	0.41
1:F:339:TRP:HH2	1:F:358:THR:HG22	1.86	0.41
1:G:342:LYS:HG2	1:G:362:TYR:CE1	2.56	0.41
1:H:83:LYS:HB2	1:Y:277:HIS:CE1	2.56	0.41
1:H:317:GLY:HA3	1:Y:268:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:458:TYR:CZ	1:Z:183:ILE:CD1	3.02	0.41
1:I:183:ILE:CD1	1:J:458:TYR:CZ	3.03	0.41
1:I:325:CYS:O	1:I:377:ARG:HA	2.21	0.41
1:I:327:ALA:H	1:I:377:ARG:NH2	2.14	0.41
1:I:478:HIS:CD2	1:I:527:LEU:HB3	2.55	0.41
1:J:364:SER:HB3	1:J:518:LEU:HD12	2.02	0.41
1:K:183:ILE:CD1	1:L:458:TYR:CZ	3.03	0.41
1:K:296:GLY:O	1:8:269:ARG:CD	2.69	0.41
1:K:305:THR:O	1:8:389:VAL:CG1	2.69	0.41
1:K:339:TRP:HH2	1:K:358:THR:HG22	1.85	0.41
1:K:342:LYS:HG2	1:K:362:TYR:CE1	2.56	0.41
1:K:416:GLN:NE2	1:8:285:TRP:CZ3	2.87	0.41
1:K:418:LYS:NZ	1:K:424:SER:CB	2.84	0.41
1:M:296:GLY:O	1:b:269:ARG:CD	2.69	0.41
1:O:48:ILE:CD1	1:O:113:LEU:HD13	2.51	0.41
1:O:296:GLY:O	1:n:269:ARG:CD	2.69	0.41
1:O:376:ALA:HB1	1:m:309:VAL:HG21	2.03	0.41
1:O:478:HIS:HB3	1:O:527:LEU:HD13	2.03	0.41
1:Q:418:LYS:NZ	1:Q:424:SER:CB	2.84	0.41
1:R:277:HIS:CE1	1:S:83:LYS:HB2	2.56	0.41
1:S:48:ILE:CD1	1:S:113:LEU:HD13	2.51	0.41
1:S:72:LYS:HA	1:S:207:LEU:HD11	2.02	0.41
1:S:286:LEU:HG	1:S:401:MET:HA	2.03	0.41
1:S:339:TRP:HH2	1:S:358:THR:HG22	1.86	0.41
1:S:376:ALA:HB1	1:U:309:VAL:HG21	2.03	0.41
1:S:418:LYS:NZ	1:S:424:SER:CB	2.84	0.41
1:T:303:LEU:HD23	1:l:279:SER:HB3	2.03	0.41
1:T:418:LYS:NZ	1:T:424:SER:CB	2.84	0.41
1:T:459:VAL:HG12	1:T:461:GLU:HG3	2.03	0.41
1:T:498:ALA:HB1	1:T:513:HIS:HB2	2.03	0.41
1:V:83:LYS:HB2	1:X:277:HIS:CE1	2.56	0.41
1:V:383:ALA:HB2	1:e:294:THR:HB	2.02	0.41
1:W:364:SER:HB3	1:W:518:LEU:HD12	2.02	0.41
1:X:183:ILE:CD1	1:Y:458:TYR:CZ	3.03	0.41
1:X:235:TYR:OH	1:X:438:GLY:O	2.39	0.41
1:Y:34:THR:HG1	1:Y:131:ASN:H	1.65	0.41
1:Y:71:ASN:O	1:Y:85:ALA:HA	2.21	0.41
1:Y:262:ASP:OD1	1:Y:263:THR:N	2.53	0.41
1:Z:83:LYS:HB2	1:3:277:HIS:CE1	2.56	0.41
1:Z:262:ASP:OD1	1:Z:263:THR:N	2.53	0.41
1:Z:269:ARG:CD	1:4:296:GLY:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:282:ARG:HB2	1:4:431:MET:HE3	2.03	0.41
1:Z:339:TRP:HH2	1:Z:358:THR:HG22	1.86	0.41
1:Z:418:LYS:NZ	1:Z:424:SER:CB	2.84	0.41
1:a:286:LEU:HG	1:a:401:MET:HA	2.03	0.41
1:a:498:ALA:HB1	1:a:513:HIS:HB2	2.03	0.41
1:b:286:LEU:HG	1:b:401:MET:HA	2.03	0.41
1:b:364:SER:HB3	1:b:518:LEU:HD12	2.02	0.41
1:b:498:ALA:HB1	1:b:513:HIS:HB2	2.03	0.41
1:c:342:LYS:HG2	1:c:362:TYR:CE1	2.56	0.41
1:c:383:ALA:CB	1:o:294:THR:HB	2.50	0.41
1:d:48:ILE:CD1	1:d:113:LEU:HD13	2.51	0.41
1:d:235:TYR:OH	1:d:438:GLY:O	2.39	0.41
1:d:262:ASP:OD1	1:d:263:THR:N	2.53	0.41
1:d:279:SER:HB3	1:l:303:LEU:HD23	2.03	0.41
1:d:459:VAL:HG12	1:d:461:GLU:HG3	2.03	0.41
1:e:325:CYS:O	1:e:377:ARG:HA	2.21	0.41
1:f:286:LEU:HG	1:f:401:MET:HA	2.03	0.41
1:f:416:GLN:NE2	1:g:285:TRP:CZ3	2.87	0.41
1:f:498:ALA:HB1	1:f:513:HIS:HB2	2.03	0.41
1:g:71:ASN:O	1:g:85:ALA:HA	2.21	0.41
1:g:305:THR:O	1:h:389:VAL:CG1	2.69	0.41
1:g:342:LYS:HG2	1:g:362:TYR:CZ	2.56	0.41
1:h:114:ILE:HD11	1:h:524:THR:HG22	2.01	0.41
1:h:342:LYS:HG2	1:h:362:TYR:CE1	2.56	0.41
1:i:339:TRP:HH2	1:i:358:THR:HG22	1.86	0.41
1:j:235:TYR:OH	1:j:438:GLY:O	2.39	0.41
1:j:376:ALA:HB1	1:k:309:VAL:HG21	2.03	0.41
1:k:286:LEU:HG	1:k:401:MET:HA	2.03	0.41
1:k:325:CYS:O	1:k:377:ARG:HA	2.21	0.41
1:k:478:HIS:CD2	1:k:527:LEU:HB3	2.55	0.41
1:l:478:HIS:HB3	1:l:527:LEU:HD13	2.03	0.41
1:m:325:CYS:O	1:m:377:ARG:HA	2.21	0.41
1:m:418:LYS:NZ	1:m:424:SER:CB	2.84	0.41
1:m:459:VAL:HG12	1:m:461:GLU:HG3	2.03	0.41
1:n:225:LEU:HD22	1:n:229:ASN:CB	2.48	0.41
1:n:262:ASP:OD1	1:n:263:THR:N	2.53	0.41
1:n:342:LYS:HG2	1:n:362:TYR:CZ	2.56	0.41
1:n:459:VAL:HG12	1:n:461:GLU:HG3	2.03	0.41
1:o:235:TYR:OH	1:o:438:GLY:O	2.39	0.41
1:o:277:HIS:CE1	1:p:83:LYS:HB2	2.56	0.41
1:o:459:VAL:HG12	1:o:461:GLU:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:71:ASN:O	1:p:85:ALA:HA	2.21	0.41
1:q:277:HIS:CE1	1:r:83:LYS:HB2	2.56	0.41
1:q:376:ALA:HB1	1:r:309:VAL:HG21	2.03	0.41
1:r:72:LYS:HA	1:r:207:LEU:HD11	2.02	0.41
1:r:286:LEU:HG	1:r:401:MET:HA	2.03	0.41
1:s:159:ASP:HB2	1:s:444:PHE:HE2	1.86	0.41
1:t:38:THR:HG23	1:t:38:THR:O	2.21	0.41
1:t:65:MET:HE3	1:t:65:MET:HB2	1.92	0.41
1:t:225:LEU:HD22	1:t:229:ASN:CB	2.48	0.41
1:t:342:LYS:HG2	1:t:362:TYR:CE1	2.56	0.41
1:u:225:LEU:CD1	1:u:231:TRP:HB2	2.37	0.41
1:w:48:ILE:CD1	1:w:113:LEU:HD13	2.51	0.41
1:w:168:LEU:H	1:y:256:ARG:HG3	1.86	0.41
1:x:418:LYS:NZ	1:x:424:SER:CB	2.84	0.41
1:z:305:THR:O	1:2:389:VAL:CG1	2.69	0.41
1:z:325:CYS:O	1:z:377:ARG:HA	2.21	0.41
1:z:389:VAL:CG1	1:1:305:THR:O	2.69	0.41
1:1:65:MET:HE3	1:1:65:MET:HB2	1.92	0.41
1:1:286:LEU:HG	1:1:401:MET:HA	2.03	0.41
1:1:498:ALA:HB1	1:1:513:HIS:HB2	2.03	0.41
1:2:325:CYS:O	1:2:377:ARG:HA	2.21	0.41
1:2:339:TRP:HH2	1:2:358:THR:HG22	1.86	0.41
1:3:65:MET:HE3	1:3:65:MET:HB2	1.92	0.41
1:4:418:LYS:NZ	1:4:424:SER:CB	2.84	0.41
1:4:478:HIS:HB3	1:4:527:LEU:HD13	2.03	0.41
1:5:83:LYS:HB2	1:7:277:HIS:CE1	2.56	0.41
1:5:325:CYS:O	1:5:377:ARG:HA	2.21	0.41
1:5:339:TRP:HH2	1:5:358:THR:HG22	1.86	0.41
1:6:48:ILE:CD1	1:6:113:LEU:HD13	2.51	0.41
1:6:277:HIS:CE1	1:7:83:LYS:HB2	2.56	0.41
1:6:285:TRP:CZ3	1:7:416:GLN:NE2	2.87	0.41
1:6:339:TRP:HH2	1:6:358:THR:HG22	1.86	0.41
1:7:342:LYS:HG2	1:7:362:TYR:CZ	2.55	0.41
1:7:364:SER:HB3	1:7:518:LEU:HD12	2.02	0.41
1:7:478:HIS:HB3	1:7:527:LEU:HD13	2.03	0.41
1:8:418:LYS:NZ	1:8:424:SER:CB	2.84	0.41
1:A:38:THR:O	1:A:38:THR:HG23	2.21	0.40
1:A:511:LEU:HA	1:A:511:LEU:HD12	1.73	0.40
1:B:159:ASP:HB2	1:B:444:PHE:HE2	1.86	0.40
1:B:168:LEU:H	1:L:256:ARG:HG3	1.87	0.40
1:B:376:ALA:HB1	1:J:309:VAL:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:71:ASN:O	1:C:85:ALA:HA	2.21	0.40
1:C:342:LYS:HG2	1:C:362:TYR:CZ	2.56	0.40
1:D:225:LEU:HD22	1:D:229:ASN:CB	2.48	0.40
1:D:478:HIS:CD2	1:D:527:LEU:HB3	2.55	0.40
1:E:157:PHE:HB3	1:E:222:SER:HB3	2.01	0.40
1:E:168:LEU:H	1:F:256:ARG:HG3	1.86	0.40
1:E:269:ARG:CD	1:Q:296:GLY:O	2.69	0.40
1:E:342:LYS:HG2	1:E:362:TYR:CE1	2.56	0.40
1:E:418:LYS:NZ	1:E:424:SER:CB	2.84	0.40
1:F:38:THR:O	1:F:38:THR:HG23	2.21	0.40
1:G:38:THR:HG23	1:G:38:THR:O	2.21	0.40
1:G:183:ILE:CD1	1:W:458:TYR:CZ	3.03	0.40
1:G:269:ARG:CD	1:I:296:GLY:O	2.69	0.40
1:H:325:CYS:O	1:H:377:ARG:HA	2.21	0.40
1:J:48:ILE:CD1	1:J:113:LEU:HD13	2.51	0.40
1:J:325:CYS:O	1:J:377:ARG:HA	2.21	0.40
1:J:339:TRP:HH2	1:J:358:THR:HG22	1.86	0.40
1:J:389:VAL:CG1	1:L:305:THR:O	2.69	0.40
1:J:427:TYR:O	1:J:435:THR:HG21	2.22	0.40
1:K:431:MET:HE3	1:8:282:ARG:HB2	2.03	0.40
1:L:48:ILE:CD1	1:L:113:LEU:HD13	2.51	0.40
1:L:325:CYS:O	1:L:377:ARG:HA	2.21	0.40
1:L:478:HIS:HB3	1:L:527:LEU:HD13	2.03	0.40
1:N:65:MET:HE3	1:N:65:MET:HB2	1.92	0.40
1:N:339:TRP:HH2	1:N:358:THR:HG22	1.86	0.40
1:O:168:LEU:H	1:n:256:ARG:HG3	1.87	0.40
1:O:279:SER:HB3	1:m:303:LEU:HD23	2.03	0.40
1:P:48:ILE:CD1	1:P:113:LEU:HD13	2.51	0.40
1:Q:157:PHE:HB3	1:Q:222:SER:HB3	2.02	0.40
1:R:295:ASP:OD1	1:R:332:ASP:HB2	2.20	0.40
1:R:340:THR:OG1	1:R:512:ASN:ND2	2.30	0.40
1:T:38:THR:HG23	1:T:38:THR:O	2.21	0.40
1:T:48:ILE:CD1	1:T:113:LEU:HD13	2.51	0.40
1:T:183:ILE:CD1	1:U:458:TYR:CZ	3.03	0.40
1:T:309:VAL:HG21	1:l:376:ALA:HB1	2.03	0.40
1:T:431:MET:HE3	1:l:282:ARG:HB2	2.03	0.40
1:U:342:LYS:HG2	1:U:362:TYR:CZ	2.56	0.40
1:V:71:ASN:O	1:V:85:ALA:HA	2.21	0.40
1:V:478:HIS:HB3	1:V:527:LEU:HD13	2.03	0.40
1:W:285:TRP:CZ3	1:Y:416:GLN:NE2	2.87	0.40
1:W:389:VAL:CG1	1:Y:305:THR:O	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:83:LYS:HB2	1:e:277:HIS:CE1	2.56	0.40
1:X:294:THR:HB	1:e:383:ALA:CB	2.50	0.40
1:X:339:TRP:HH2	1:X:358:THR:HG22	1.86	0.40
1:Y:342:LYS:HG2	1:Y:362:TYR:CE1	2.56	0.40
1:Y:342:LYS:HG2	1:Y:362:TYR:CZ	2.56	0.40
1:Y:364:SER:HB3	1:Y:518:LEU:HD12	2.02	0.40
1:Z:342:LYS:HG2	1:Z:362:TYR:CE1	2.56	0.40
1:Z:389:VAL:CG1	1:4:305:THR:O	2.70	0.40
1:a:277:HIS:CE1	1:8:83:LYS:HB2	2.56	0.40
1:b:478:HIS:CD2	1:b:527:LEU:HB3	2.55	0.40
1:b:478:HIS:HB3	1:b:527:LEU:HD13	2.03	0.40
1:c:83:LYS:HB2	1:p:277:HIS:CE1	2.56	0.40
1:c:127:ILE:O	1:c:232:SER:HA	2.21	0.40
1:c:277:HIS:CE1	1:o:83:LYS:HB2	2.56	0.40
1:c:294:THR:HB	1:p:383:ALA:HB2	2.02	0.40
1:c:325:CYS:O	1:c:377:ARG:HA	2.21	0.40
1:c:458:TYR:CE1	1:s:183:ILE:HD12	2.52	0.40
1:d:34:THR:HG1	1:d:131:ASN:H	1.65	0.40
1:d:342:LYS:HG2	1:d:362:TYR:CE1	2.56	0.40
1:d:418:LYS:NZ	1:d:424:SER:CB	2.84	0.40
1:e:127:ILE:O	1:e:232:SER:HA	2.21	0.40
1:f:83:LYS:HB2	1:g:277:HIS:CE1	2.56	0.40
1:f:168:LEU:H	1:g:256:ARG:HG3	1.87	0.40
1:f:251:ILE:CD1	1:h:165:PRO:HB3	2.50	0.40
1:j:48:ILE:CD1	1:j:113:LEU:HD13	2.51	0.40
1:j:383:ALA:CB	1:k:294:THR:HB	2.50	0.40
1:k:71:ASN:O	1:k:85:ALA:HA	2.21	0.40
1:k:225:LEU:HD22	1:k:229:ASN:CB	2.48	0.40
1:l:127:ILE:O	1:l:232:SER:HA	2.21	0.40
1:l:221:PRO:HD3	1:n:40:ASN:HB3	2.02	0.40
1:l:235:TYR:OH	1:l:438:GLY:O	2.39	0.40
1:m:339:TRP:HH2	1:m:358:THR:HG22	1.86	0.40
1:m:498:ALA:HB1	1:m:513:HIS:HB2	2.03	0.40
1:n:48:ILE:CD1	1:n:113:LEU:HD13	2.51	0.40
1:n:418:LYS:NZ	1:n:424:SER:CB	2.84	0.40
1:o:183:ILE:CD1	1:7:458:TYR:CZ	3.03	0.40
1:q:71:ASN:O	1:q:85:ALA:HA	2.21	0.40
1:q:285:TRP:CZ3	1:r:416:GLN:NE2	2.87	0.40
1:q:295:ASP:OD1	1:q:332:ASP:HB2	2.20	0.40
1:r:48:ILE:CD1	1:r:113:LEU:HD13	2.51	0.40
1:r:339:TRP:HH2	1:r:358:THR:HG22	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:418:LYS:NZ	1:r:424:SER:CB	2.84	0.40
1:s:498:ALA:HB1	1:s:513:HIS:HB2	2.03	0.40
1:t:157:PHE:HB3	1:t:222:SER:HB3	2.01	0.40
1:t:159:ASP:HB2	1:t:444:PHE:HE2	1.86	0.40
1:t:269:ARG:CD	1:u:296:GLY:O	2.69	0.40
1:t:342:LYS:HG2	1:t:362:TYR:CZ	2.56	0.40
1:u:269:ARG:CD	1:v:296:GLY:O	2.69	0.40
1:v:478:HIS:HB3	1:v:527:LEU:HD13	2.03	0.40
1:w:256:ARG:HG3	1:x:168:LEU:H	1.87	0.40
1:z:48:ILE:CD1	1:z:113:LEU:HD13	2.51	0.40
1:z:256:ARG:HG3	1:1:168:LEU:H	1.87	0.40
1:z:383:ALA:HB2	1:1:294:THR:HB	2.02	0.40
1:1:342:LYS:HG2	1:1:362:TYR:CE1	2.56	0.40
1:1:342:LYS:HG2	1:1:362:TYR:CZ	2.56	0.40
1:1:376:ALA:HB1	1:2:309:VAL:HG21	2.03	0.40
1:2:48:ILE:CD1	1:2:113:LEU:HD13	2.51	0.40
1:2:427:TYR:O	1:2:435:THR:HG21	2.22	0.40
1:3:478:HIS:CD2	1:3:527:LEU:HB3	2.55	0.40
1:3:498:ALA:HB1	1:3:513:HIS:HB2	2.03	0.40
1:4:157:PHE:HB3	1:4:222:SER:HB3	2.01	0.40
1:5:317:GLY:HA3	1:7:268:LEU:HD11	2.01	0.40
1:6:156:ILE:HA	1:6:444:PHE:O	2.20	0.40
1:6:325:CYS:O	1:6:377:ARG:HA	2.21	0.40
1:7:498:ALA:HB1	1:7:513:HIS:HB2	2.03	0.40
1:B:256:ARG:HG3	1:J:168:LEU:H	1.86	0.40
1:C:285:TRP:CZ3	1:b:416:GLN:NE2	2.87	0.40
1:C:389:VAL:CG1	1:b:305:THR:O	2.69	0.40
1:C:459:VAL:HG12	1:C:461:GLU:HG3	2.03	0.40
1:D:114:ILE:HD13	1:D:114:ILE:HA	1.75	0.40
1:D:277:HIS:CE1	1:N:83:LYS:HB2	2.56	0.40
1:E:83:LYS:HB2	1:F:277:HIS:CE1	2.56	0.40
1:E:256:ARG:HG3	1:Q:168:LEU:H	1.87	0.40
1:E:317:GLY:HA3	1:F:268:LEU:HD11	2.01	0.40
1:F:159:ASP:HB2	1:F:444:PHE:HE2	1.86	0.40
1:F:292:ASN:HB2	1:F:393:GLN:HA	2.04	0.40
1:G:157:PHE:HB3	1:G:222:SER:HB3	2.01	0.40
1:H:71:ASN:O	1:H:85:ALA:HA	2.21	0.40
1:H:269:ARG:CD	1:W:296:GLY:O	2.69	0.40
1:H:277:HIS:CE1	1:W:83:LYS:HB2	2.56	0.40
1:H:427:TYR:O	1:H:435:THR:HG21	2.22	0.40
1:K:48:ILE:CD1	1:K:113:LEU:HD13	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:83:LYS:HB2	1:8:277:HIS:CE1	2.57	0.40
1:K:157:PHE:HB3	1:K:222:SER:HB3	2.01	0.40
1:K:303:LEU:HD23	1:8:279:SER:HB3	2.03	0.40
1:M:165:PRO:HB3	1:b:251:ILE:CD1	2.50	0.40
1:M:342:LYS:HG2	1:M:362:TYR:CE1	2.56	0.40
1:N:127:ILE:O	1:N:232:SER:HA	2.22	0.40
1:N:478:HIS:HB3	1:N:527:LEU:HD13	2.03	0.40
1:O:235:TYR:OH	1:O:438:GLY:O	2.39	0.40
1:O:325:CYS:O	1:O:377:ARG:HA	2.21	0.40
1:O:364:SER:HB3	1:O:518:LEU:HD12	2.02	0.40
1:P:427:TYR:O	1:P:435:THR:HG21	2.22	0.40
1:Q:342:LYS:HG2	1:Q:362:TYR:CE1	2.56	0.40
1:R:389:VAL:CG1	1:S:305:THR:O	2.69	0.40
1:S:256:ARG:HG3	1:U:168:LEU:H	1.87	0.40
1:S:279:SER:HB3	1:U:303:LEU:HD23	2.03	0.40
1:S:389:VAL:CG1	1:U:305:THR:O	2.69	0.40
1:U:427:TYR:O	1:U:435:THR:HG21	2.22	0.40
1:U:498:ALA:HB1	1:U:513:HIS:HB2	2.03	0.40
1:V:127:ILE:O	1:V:232:SER:HA	2.22	0.40
1:V:277:HIS:CE1	1:e:83:LYS:HB2	2.56	0.40
1:V:286:LEU:HG	1:V:401:MET:HA	2.03	0.40
1:W:325:CYS:O	1:W:377:ARG:HA	2.21	0.40
1:X:127:ILE:O	1:X:232:SER:HA	2.22	0.40
1:Z:277:HIS:CE1	1:4:83:LYS:HB2	2.57	0.40
1:Z:478:HIS:CD2	1:Z:527:LEU:HB3	2.55	0.40
1:Z:478:HIS:HB3	1:Z:527:LEU:HD13	2.03	0.40
1:a:459:VAL:HG12	1:a:461:GLU:HG3	2.03	0.40
1:a:478:HIS:CD2	1:a:527:LEU:HB3	2.55	0.40
1:b:262:ASP:OD1	1:b:263:THR:N	2.53	0.40
1:c:48:ILE:CD1	1:c:113:LEU:HD13	2.51	0.40
1:d:256:ARG:HG3	1:l:168:LEU:H	1.87	0.40
1:f:305:THR:O	1:g:389:VAL:CG1	2.69	0.40
1:f:364:SER:HB3	1:f:518:LEU:HD12	2.02	0.40
1:f:478:HIS:CD2	1:f:527:LEU:HB3	2.55	0.40
1:f:478:HIS:HB3	1:f:527:LEU:HD13	2.03	0.40
1:h:292:ASN:HB2	1:h:393:GLN:HA	2.04	0.40
1:i:83:LYS:HB2	1:k:277:HIS:CE1	2.56	0.40
1:i:478:HIS:HB3	1:i:527:LEU:HD13	2.03	0.40
1:j:71:ASN:O	1:j:85:ALA:HA	2.21	0.40
1:j:262:ASP:OD1	1:j:263:THR:N	2.53	0.40
1:j:427:TYR:O	1:j:435:THR:HG21	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:114:ILE:HD13	1:k:114:ILE:HA	1.75	0.40
1:l:364:SER:HB3	1:l:518:LEU:HD12	2.02	0.40
1:m:48:ILE:CD1	1:m:113:LEU:HD13	2.51	0.40
1:m:137:LYS:HB3	1:m:137:LYS:HE2	1.73	0.40
1:m:183:ILE:CD1	1:s:458:TYR:CZ	3.03	0.40
1:m:484:ASN:ND2	1:r:502:MET:HE2	2.27	0.40
1:n:235:TYR:OH	1:n:438:GLY:O	2.39	0.40
1:n:342:LYS:HG2	1:n:362:TYR:CE1	2.56	0.40
1:o:127:ILE:O	1:o:232:SER:HA	2.22	0.40
1:o:283:GLN:HA	1:o:284:PRO:HD3	1.70	0.40
1:o:339:TRP:HH2	1:o:358:THR:HG22	1.86	0.40
1:p:127:ILE:O	1:p:232:SER:HA	2.22	0.40
1:p:183:ILE:CD1	1:q:458:TYR:CZ	3.03	0.40
1:p:286:LEU:HG	1:p:401:MET:HA	2.03	0.40
1:p:478:HIS:HB3	1:p:527:LEU:HD13	2.03	0.40
1:r:256:ARG:HG3	1:s:168:LEU:H	1.87	0.40
1:r:279:SER:HB3	1:s:303:LEU:HD23	2.03	0.40
1:r:283:GLN:HA	1:r:284:PRO:HD3	1.70	0.40
1:t:48:ILE:CD1	1:t:113:LEU:HD13	2.51	0.40
1:u:268:LEU:HD11	1:v:317:GLY:HA3	2.01	0.40
1:u:277:HIS:CE1	1:v:83:LYS:HB2	2.56	0.40
1:u:478:HIS:CD2	1:u:527:LEU:HB3	2.55	0.40
1:v:498:ALA:HB1	1:v:513:HIS:HB2	2.03	0.40
1:w:157:PHE:HB3	1:w:222:SER:HB3	2.01	0.40
1:w:269:ARG:CD	1:x:296:GLY:O	2.69	0.40
1:w:342:LYS:HG2	1:w:362:TYR:CE1	2.56	0.40
1:w:418:LYS:NZ	1:w:424:SER:CB	2.84	0.40
1:x:127:ILE:O	1:x:232:SER:HA	2.21	0.40
1:x:340:THR:OG1	1:x:512:ASN:ND2	2.30	0.40
1:y:38:THR:O	1:y:38:THR:HG23	2.21	0.40
1:y:159:ASP:HB2	1:y:444:PHE:HE2	1.86	0.40
1:y:262:ASP:OD1	1:y:263:THR:N	2.53	0.40
1:y:527:LEU:HD23	1:y:527:LEU:HA	1.88	0.40
1:z:458:TYR:CZ	1:4:183:ILE:CD1	3.03	0.40
1:z:478:HIS:HB3	1:z:527:LEU:HD13	2.03	0.40
1:1:292:ASN:HB2	1:1:393:GLN:HA	2.04	0.40
1:3:303:LEU:HD23	1:4:279:SER:HB3	2.03	0.40
1:3:459:VAL:HG12	1:3:461:GLU:HG3	2.03	0.40
1:3:478:HIS:HB3	1:3:527:LEU:HD13	2.03	0.40
1:4:339:TRP:HH2	1:4:358:THR:HG22	1.86	0.40
1:4:342:LYS:HG2	1:4:362:TYR:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:159:ASP:HB2	1:5:444:PHE:HE2	1.86	0.40
1:5:269:ARG:CD	1:6:296:GLY:O	2.69	0.40
1:5:478:HIS:HB3	1:5:527:LEU:HD13	2.03	0.40
1:6:389:VAL:CG1	1:7:305:THR:O	2.69	0.40
1:7:262:ASP:OD1	1:7:263:THR:N	2.53	0.40
1:7:339:TRP:HH2	1:7:358:THR:HG22	1.85	0.40
1:7:342:LYS:HG2	1:7:362:TYR:CE1	2.56	0.40
1:8:65:MET:HE3	1:8:65:MET:HB2	1.92	0.40
1:8:225:LEU:CD1	1:8:231:TRP:HB2	2.37	0.40
1:8:342:LYS:HG2	1:8:362:TYR:CE1	2.56	0.40
1:8:478:HIS:CD2	1:8:527:LEU:HB3	2.55	0.40
1:A:269:ARG:CD	1:G:296:GLY:O	2.69	0.40
1:A:305:THR:O	1:I:389:VAL:CG2	2.69	0.40
1:A:498:ALA:HB1	1:A:513:HIS:HB2	2.03	0.40
1:B:292:ASN:HB2	1:B:393:GLN:HA	2.04	0.40
1:B:342:LYS:HG2	1:B:362:TYR:CZ	2.56	0.40
1:C:93:TRP:NE1	1:C:218:ASP:OD1	2.53	0.40
1:C:256:ARG:HG3	1:b:168:LEU:H	1.87	0.40
1:D:262:ASP:OD1	1:D:263:THR:N	2.53	0.40
1:D:342:LYS:HG2	1:D:362:TYR:CE1	2.56	0.40
1:D:478:HIS:HB3	1:D:527:LEU:HD13	2.03	0.40
1:E:305:THR:O	1:F:389:VAL:CG1	2.69	0.40
1:F:83:LYS:HB2	1:Q:277:HIS:CE1	2.56	0.40
1:F:262:ASP:OD1	1:F:263:THR:N	2.53	0.40
1:H:159:ASP:HB2	1:H:444:PHE:HE2	1.86	0.40
1:I:137:LYS:HB3	1:I:137:LYS:HE2	1.73	0.40
1:I:262:ASP:OD1	1:I:263:THR:N	2.53	0.40
1:K:459:VAL:HG12	1:K:461:GLU:HG3	2.03	0.40
1:M:292:ASN:HB2	1:M:393:GLN:HA	2.04	0.40
1:M:325:CYS:O	1:M:377:ARG:HA	2.21	0.40
1:N:277:HIS:CE1	1:P:83:LYS:HB2	2.56	0.40
1:O:127:ILE:O	1:O:232:SER:HA	2.22	0.40
1:O:251:ILE:CD1	1:m:165:PRO:HB3	2.50	0.40
1:O:269:ARG:CD	1:m:296:GLY:O	2.69	0.40
1:P:71:ASN:O	1:P:85:ALA:HA	2.21	0.40
1:P:159:ASP:HB2	1:P:444:PHE:HE2	1.86	0.40
1:P:286:LEU:HG	1:P:401:MET:HA	2.03	0.40
1:Q:127:ILE:O	1:Q:232:SER:HA	2.22	0.40
1:Q:225:LEU:HD22	1:Q:229:ASN:CB	2.48	0.40
1:Q:340:THR:OG1	1:Q:512:ASN:ND2	2.30	0.40
1:R:71:ASN:O	1:R:85:ALA:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:427:TYR:O	1:R:435:THR:HG21	2.22	0.40
1:R:458:TYR:CZ	1:V:183:ILE:CD1	3.03	0.40
1:R:478:HIS:HB3	1:R:527:LEU:HD13	2.03	0.40
1:T:277:HIS:CE1	1:d:83:LYS:HB2	2.56	0.40
1:T:296:GLY:O	1:l:269:ARG:CD	2.69	0.40
1:T:317:GLY:HA3	1:l:268:LEU:HD11	2.01	0.40
1:U:71:ASN:O	1:U:85:ALA:HA	2.21	0.40
1:U:183:ILE:HD12	1:e:458:TYR:CE1	2.52	0.40
1:W:156:ILE:HA	1:W:444:PHE:O	2.20	0.40
1:X:283:GLN:HA	1:X:284:PRO:HD3	1.70	0.40
1:X:418:LYS:NZ	1:X:424:SER:CB	2.84	0.40
1:Y:427:TYR:O	1:Y:435:THR:HG21	2.22	0.40
1:Z:279:SER:HB3	1:4:303:LEU:HD23	2.03	0.40
1:c:198:PRO:HB3	1:c:207:LEU:HD21	2.04	0.40
1:d:159:ASP:HB2	1:d:444:PHE:HE2	1.86	0.40
1:d:225:LEU:HD22	1:d:229:ASN:CB	2.48	0.40
1:d:277:HIS:CE1	1:l:83:LYS:HB2	2.56	0.40
1:e:48:ILE:CD1	1:e:113:LEU:HD13	2.51	0.40
1:e:198:PRO:HB3	1:e:207:LEU:HD21	2.04	0.40
1:g:309:VAL:HG21	1:h:376:ALA:HB1	2.03	0.40
1:g:459:VAL:HG12	1:g:461:GLU:HG3	2.03	0.40
1:h:262:ASP:OD1	1:h:263:THR:N	2.53	0.40
1:i:127:ILE:O	1:i:232:SER:HA	2.22	0.40
1:i:277:HIS:CE1	1:j:83:LYS:HB2	2.56	0.40
1:i:305:THR:O	1:k:389:VAL:CG1	2.69	0.40
1:l:325:CYS:O	1:l:377:ARG:HA	2.21	0.40
1:m:277:HIS:CE1	1:n:83:LYS:HB2	2.56	0.40
1:m:292:ASN:HB2	1:m:393:GLN:HA	2.04	0.40
1:n:225:LEU:CD1	1:n:231:TRP:HB2	2.37	0.40
1:p:175:MET:HE3	1:p:175:MET:HB3	1.90	0.40
1:q:389:VAL:CG1	1:r:305:THR:O	2.69	0.40
1:q:427:TYR:O	1:q:435:THR:HG21	2.22	0.40
1:r:38:THR:O	1:r:38:THR:HG23	2.21	0.40
1:r:225:LEU:HD22	1:r:229:ASN:CB	2.48	0.40
1:r:389:VAL:CG1	1:s:305:THR:O	2.69	0.40
1:s:427:TYR:O	1:s:435:THR:HG21	2.22	0.40
1:u:279:SER:HB3	1:v:303:LEU:HD23	2.03	0.40
1:u:286:LEU:HG	1:u:401:MET:HA	2.03	0.40
1:u:327:ALA:H	1:u:377:ARG:NH2	2.14	0.40
1:v:286:LEU:O	1:v:402:ILE:N	2.41	0.40
1:v:511:LEU:HA	1:v:511:LEU:HD12	1.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:83:LYS:HB2	1:y:277:HIS:CE1	2.56	0.40
1:x:277:HIS:CE1	1:y:83:LYS:HB2	2.56	0.40
1:x:292:ASN:HB2	1:x:393:GLN:HA	2.04	0.40
1:x:342:LYS:HG2	1:x:362:TYR:CE1	2.56	0.40
1:y:292:ASN:HB2	1:y:393:GLN:HA	2.04	0.40
1:1:159:ASP:HB2	1:1:444:PHE:HE2	1.86	0.40
1:1:256:ARG:HG3	1:2:168:LEU:H	1.87	0.40
1:2:286:LEU:HG	1:2:401:MET:HA	2.03	0.40
1:3:159:ASP:HB2	1:3:444:PHE:HE2	1.86	0.40
1:4:48:ILE:CD1	1:4:113:LEU:HD13	2.51	0.40
1:4:459:VAL:HG12	1:4:461:GLU:HG3	2.03	0.40
1:5:71:ASN:O	1:5:85:ALA:HA	2.21	0.40
1:5:168:LEU:H	1:7:256:ARG:HG3	1.87	0.40
1:5:277:HIS:CE1	1:6:83:LYS:HB2	2.57	0.40
1:5:383:ALA:HB2	1:6:294:THR:HB	2.02	0.40
1:5:427:TYR:O	1:5:435:THR:HG21	2.22	0.40
1:6:256:ARG:HG3	1:7:168:LEU:H	1.87	0.40
1:7:292:ASN:HB2	1:7:393:GLN:HA	2.04	0.40
1:7:427:TYR:O	1:7:435:THR:HG21	2.22	0.40
1:8:159:ASP:HB2	1:8:444:PHE:HE2	1.86	0.40
1:8:478:HIS:HB3	1:8:527:LEU:HD13	2.03	0.40
1:B:48:ILE:CD1	1:B:113:LEU:HD13	2.51	0.40
1:C:309:VAL:HG21	1:M:376:ALA:HB1	2.03	0.40
1:C:498:ALA:HB1	1:C:513:HIS:HB2	2.03	0.40
1:D:305:THR:O	1:P:389:VAL:CG1	2.69	0.40
1:D:389:VAL:CG1	1:N:305:THR:O	2.69	0.40
1:E:38:THR:HG23	1:E:38:THR:O	2.21	0.40
1:E:286:LEU:HG	1:E:401:MET:HA	2.03	0.40
1:E:427:TYR:O	1:E:435:THR:HG21	2.22	0.40
1:E:478:HIS:HB3	1:E:527:LEU:HD13	2.03	0.40
1:G:48:ILE:CD1	1:G:113:LEU:HD13	2.51	0.40
1:G:282:ARG:HB2	1:I:431:MET:HE3	2.04	0.40
1:G:286:LEU:HG	1:G:401:MET:HA	2.03	0.40
1:H:48:ILE:CD1	1:H:113:LEU:HD13	2.51	0.40
1:H:127:ILE:O	1:H:232:SER:HA	2.22	0.40
1:H:168:LEU:H	1:Y:256:ARG:HG3	1.87	0.40
1:I:48:ILE:CD1	1:I:113:LEU:HD13	2.51	0.40
1:I:286:LEU:HG	1:I:401:MET:HA	2.03	0.40
1:J:71:ASN:O	1:J:85:ALA:HA	2.21	0.40
1:J:328:GLU:H	1:J:328:GLU:CD	2.24	0.40
1:K:172:GLN:HE22	1:8:257:ALA:HB1	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:279:SER:HB3	1:a:303:LEU:HD23	2.03	0.40
1:K:427:TYR:O	1:K:435:THR:HG21	2.22	0.40
1:M:127:ILE:O	1:M:232:SER:HA	2.22	0.40
1:M:262:ASP:OD1	1:M:263:THR:N	2.53	0.40
1:N:286:LEU:HG	1:N:401:MET:HA	2.03	0.40
1:O:83:LYS:HB2	1:n:277:HIS:CE1	2.56	0.40
1:O:221:PRO:HD3	1:d:40:ASN:HB3	2.02	0.40
1:O:268:LEU:HD11	1:m:317:GLY:HA3	2.01	0.40
1:O:286:LEU:HG	1:O:401:MET:HA	2.03	0.40
1:P:262:ASP:OD1	1:P:263:THR:N	2.53	0.40
1:Q:292:ASN:HB2	1:Q:393:GLN:HA	2.04	0.40
1:R:127:ILE:O	1:R:232:SER:HA	2.22	0.40
1:R:364:SER:HB3	1:R:518:LEU:HD12	2.02	0.40
1:S:38:THR:O	1:S:38:THR:HG23	2.21	0.40
1:S:225:LEU:HD22	1:S:229:ASN:CB	2.48	0.40
1:S:277:HIS:CE1	1:U:83:LYS:HB2	2.56	0.40
1:T:165:PRO:HB3	1:l:251:ILE:CD1	2.50	0.40
1:T:269:ARG:CD	1:d:296:GLY:O	2.69	0.40
1:T:292:ASN:HB2	1:T:393:GLN:HA	2.04	0.40
1:T:305:THR:O	1:l:389:VAL:CG1	2.69	0.40
1:V:285:TRP:CZ3	1:e:416:GLN:NE2	2.87	0.40
1:W:38:THR:HG23	1:W:38:THR:O	2.21	0.40
1:W:256:ARG:HG3	1:Y:168:LEU:H	1.87	0.40
1:W:269:ARG:CD	1:Y:296:GLY:O	2.69	0.40
1:W:478:HIS:HB3	1:W:527:LEU:HD13	2.03	0.40
1:Y:292:ASN:HB2	1:Y:393:GLN:HA	2.04	0.40
1:Y:339:TRP:HH2	1:Y:358:THR:HG22	1.86	0.40
1:Z:159:ASP:HB2	1:Z:444:PHE:HE2	1.86	0.40
1:Z:165:PRO:HB3	1:3:251:ILE:CD1	2.50	0.40
1:Z:257:ALA:HB1	1:4:172:GLN:HE22	1.87	0.40
1:a:256:ARG:HG3	1:8:168:LEU:H	1.87	0.40
1:a:478:HIS:HB3	1:a:527:LEU:HD13	2.03	0.40
1:b:48:ILE:CD1	1:b:113:LEU:HD13	2.51	0.40
1:b:65:MET:HE3	1:b:65:MET:HB2	1.92	0.40
1:c:262:ASP:OD1	1:c:263:THR:N	2.53	0.40
1:c:416:GLN:NE2	1:p:285:TRP:CZ3	2.87	0.40
1:c:418:LYS:NZ	1:c:424:SER:CB	2.84	0.40
1:d:127:ILE:O	1:d:232:SER:HA	2.22	0.40
1:d:225:LEU:CD1	1:d:231:TRP:HB2	2.37	0.40
1:e:262:ASP:OD1	1:e:263:THR:N	2.53	0.40
1:e:418:LYS:NZ	1:e:424:SER:CB	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:48:ILE:CD1	1:f:113:LEU:HD13	2.51	0.40
1:f:262:ASP:OD1	1:f:263:THR:N	2.53	0.40
1:g:93:TRP:NE1	1:g:218:ASP:OD1	2.53	0.40
1:g:498:ALA:HB1	1:g:513:HIS:HB2	2.03	0.40
1:h:478:HIS:HB3	1:h:527:LEU:HD13	2.03	0.40
1:i:303:LEU:HD23	1:k:279:SER:HB3	2.03	0.40
1:j:159:ASP:HB2	1:j:444:PHE:HE2	1.86	0.40
1:j:286:LEU:HG	1:j:401:MET:HA	2.03	0.40
1:j:389:VAL:CG1	1:k:305:THR:O	2.69	0.40
1:k:262:ASP:OD1	1:k:263:THR:N	2.53	0.40
1:k:342:LYS:HG2	1:k:362:TYR:CE1	2.56	0.40
1:m:38:THR:HG23	1:m:38:THR:O	2.21	0.40
1:m:114:ILE:HD13	1:m:114:ILE:HA	1.75	0.40
1:m:159:ASP:HB2	1:m:444:PHE:HE2	1.86	0.40
1:n:127:ILE:O	1:n:232:SER:HA	2.22	0.40
1:o:279:SER:HB3	1:p:303:LEU:HD23	2.03	0.40
1:q:127:ILE:O	1:q:232:SER:HA	2.22	0.40
1:q:478:HIS:HB3	1:q:527:LEU:HD13	2.03	0.40
1:s:48:ILE:CD1	1:s:113:LEU:HD13	2.51	0.40
1:s:71:ASN:O	1:s:85:ALA:HA	2.21	0.40
1:t:251:ILE:CD1	1:u:165:PRO:HB3	2.50	0.40
1:t:277:HIS:CE1	1:u:83:LYS:HB2	2.57	0.40
1:t:286:LEU:HG	1:t:401:MET:HA	2.03	0.40
1:t:340:THR:OG1	1:t:512:ASN:ND2	2.30	0.40
1:t:389:VAL:CG2	1:u:305:THR:O	2.69	0.40
1:t:499:TYR:CE2	1:6:205:ASN:HB3	2.55	0.40
1:u:48:ILE:CD1	1:u:113:LEU:HD13	2.51	0.40
1:u:127:ILE:O	1:u:232:SER:HA	2.22	0.40
1:u:262:ASP:OD1	1:u:263:THR:N	2.53	0.40
1:u:339:TRP:HH2	1:u:358:THR:HG22	1.86	0.40
1:v:127:ILE:O	1:v:232:SER:HA	2.22	0.40
1:v:342:LYS:HG2	1:v:362:TYR:CZ	2.55	0.40
1:w:38:THR:HG23	1:w:38:THR:O	2.21	0.40
1:w:286:LEU:HG	1:w:401:MET:HA	2.03	0.40
1:w:305:THR:O	1:y:389:VAL:CG1	2.69	0.40
1:w:317:GLY:HA3	1:y:268:LEU:HD11	2.01	0.40
1:y:157:PHE:HB3	1:y:222:SER:HB3	2.01	0.40
1:z:123:ARG:HA	1:z:123:ARG:HD2	1.95	0.40
1:z:279:SER:HB3	1:1:303:LEU:HD23	2.03	0.40
1:1:48:ILE:CD1	1:1:113:LEU:HD13	2.51	0.40
1:2:71:ASN:O	1:2:85:ALA:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:137:LYS:HE2	1:2:137:LYS:HB3	1.73	0.40
1:2:328:GLU:H	1:2:328:GLU:CD	2.24	0.40
1:4:427:TYR:O	1:4:435:THR:HG21	2.22	0.40
1:5:48:ILE:CD1	1:5:113:LEU:HD13	2.51	0.40
1:5:127:ILE:O	1:5:232:SER:HA	2.22	0.40
1:5:309:VAL:HG21	1:7:376:ALA:HB1	2.03	0.40
1:5:418:LYS:NZ	1:5:424:SER:CB	2.84	0.40
1:5:431:MET:HE3	1:7:282:ARG:HB2	2.04	0.40
1:6:478:HIS:HB3	1:6:527:LEU:HD13	2.03	0.40
1:A:127:ILE:O	1:A:232:SER:HA	2.22	0.40
1:A:292:ASN:HB2	1:A:393:GLN:HA	2.04	0.40
1:A:342:LYS:HG2	1:A:362:TYR:CZ	2.56	0.40
1:B:303:LEU:HD23	1:L:279:SER:HB3	2.03	0.40
1:F:157:PHE:HB3	1:F:222:SER:HB3	2.01	0.40
1:F:305:THR:O	1:Q:389:VAL:CG1	2.69	0.40
1:G:256:ARG:HG3	1:I:168:LEU:H	1.87	0.40
1:H:309:VAL:HG21	1:Y:376:ALA:HB1	2.03	0.40
1:H:383:ALA:HB2	1:W:294:THR:HB	2.02	0.40
1:H:418:LYS:NZ	1:H:424:SER:CB	2.84	0.40
1:H:431:MET:HE3	1:Y:282:ARG:HB2	2.04	0.40
1:H:478:HIS:HB3	1:H:527:LEU:HD13	2.03	0.40
1:I:93:TRP:NE1	1:I:218:ASP:OD1	2.53	0.40
1:I:225:LEU:CD1	1:I:231:TRP:HB2	2.37	0.40
1:I:342:LYS:HG2	1:I:362:TYR:CE1	2.56	0.40
1:J:286:LEU:HG	1:J:401:MET:HA	2.03	0.40
1:J:342:LYS:HG2	1:J:362:TYR:CE1	2.56	0.40
1:K:256:ARG:HG3	1:a:168:LEU:H	1.87	0.40
1:K:389:VAL:CG1	1:a:305:THR:O	2.69	0.40
1:M:48:ILE:CD1	1:M:113:LEU:HD13	2.51	0.40
1:M:478:HIS:HB3	1:M:527:LEU:HD13	2.03	0.40
1:N:48:ILE:CD1	1:N:113:LEU:HD13	2.51	0.40
1:N:83:LYS:HA	1:N:83:LYS:HD3	1.78	0.40
1:N:235:TYR:OH	1:N:438:GLY:O	2.39	0.40
1:N:292:ASN:HB2	1:N:393:GLN:HA	2.04	0.40
1:O:285:TRP:CZ3	1:m:416:GLN:NE2	2.87	0.40
1:P:198:PRO:HB3	1:P:207:LEU:HD21	2.04	0.40
1:P:342:LYS:HG2	1:P:362:TYR:CE1	2.56	0.40
1:R:83:LYS:HB2	1:U:277:HIS:CE1	2.56	0.40
1:R:256:ARG:HG3	1:S:168:LEU:H	1.87	0.40
1:R:389:VAL:CG2	1:S:305:THR:O	2.70	0.40
1:T:114:ILE:HD13	1:T:114:ILE:HA	1.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:137:LYS:HB3	1:T:137:LYS:HE2	1.73	0.40
1:T:159:ASP:HB2	1:T:444:PHE:HE2	1.86	0.40
1:T:286:LEU:HG	1:T:401:MET:HA	2.03	0.40
1:T:478:HIS:HB3	1:T:527:LEU:HD13	2.03	0.40
1:U:48:ILE:CD1	1:U:113:LEU:HD13	2.51	0.40
1:U:292:ASN:HB2	1:U:393:GLN:HA	2.04	0.40
1:U:339:TRP:HH2	1:U:358:THR:HG22	1.86	0.40
1:V:48:ILE:CD1	1:V:113:LEU:HD13	2.51	0.40
1:V:279:SER:HB3	1:e:303:LEU:HD23	2.03	0.40
1:V:303:LEU:HD23	1:X:279:SER:HB3	2.03	0.40
1:V:339:TRP:HH2	1:V:358:THR:HG22	1.85	0.40
1:W:34:THR:HG1	1:W:131:ASN:H	1.65	0.40
1:X:48:ILE:CD1	1:X:113:LEU:HD13	2.51	0.40
1:X:292:ASN:HB2	1:X:393:GLN:HA	2.04	0.40
1:X:296:GLY:O	1:e:269:ARG:CD	2.69	0.40
1:Y:127:ILE:O	1:Y:232:SER:HA	2.22	0.40
1:Z:168:LEU:H	1:3:256:ARG:HG3	1.87	0.40
1:a:159:ASP:HB2	1:a:444:PHE:HE2	1.86	0.40
1:a:251:ILE:CD1	1:8:165:PRO:HB3	2.50	0.40
1:c:286:LEU:HG	1:c:401:MET:HA	2.03	0.40
1:c:303:LEU:HD23	1:p:279:SER:HB3	2.03	0.40
1:d:478:HIS:HB3	1:d:527:LEU:HD13	2.03	0.40
1:e:159:ASP:HB2	1:e:444:PHE:HE2	1.86	0.40
1:e:286:LEU:HG	1:e:401:MET:HA	2.03	0.40
1:h:48:ILE:CD1	1:h:113:LEU:HD13	2.51	0.40
1:h:127:ILE:O	1:h:232:SER:HA	2.22	0.40
1:h:342:LYS:HG2	1:h:362:TYR:CZ	2.56	0.40
1:i:48:ILE:CD1	1:i:113:LEU:HD13	2.51	0.40
1:i:269:ARG:CD	1:j:296:GLY:O	2.69	0.40
1:i:282:ARG:HB2	1:j:431:MET:HE3	2.04	0.40
1:i:309:VAL:HG21	1:k:376:ALA:HB1	2.03	0.40
1:j:292:ASN:HB2	1:j:393:GLN:HA	2.04	0.40
1:j:342:LYS:HG2	1:j:362:TYR:CE1	2.56	0.40
1:k:127:ILE:O	1:k:232:SER:HA	2.22	0.40
1:k:478:HIS:HB3	1:k:527:LEU:HD13	2.03	0.40
1:l:286:LEU:HG	1:l:401:MET:HA	2.03	0.40
1:m:269:ARG:CD	1:n:296:GLY:O	2.69	0.40
1:m:478:HIS:HB3	1:m:527:LEU:HD13	2.03	0.40
1:n:159:ASP:HB2	1:n:444:PHE:HE2	1.86	0.40
1:n:478:HIS:HB3	1:n:527:LEU:HD13	2.03	0.40
1:o:48:ILE:CD1	1:o:113:LEU:HD13	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:198:PRO:HB3	1:o:207:LEU:HD21	2.04	0.40
1:o:269:ARG:CD	1:p:296:GLY:O	2.69	0.40
1:p:262:ASP:OD1	1:p:263:THR:N	2.53	0.40
1:q:83:LYS:HB2	1:s:277:HIS:CE1	2.56	0.40
1:q:157:PHE:HB3	1:q:222:SER:HB3	2.01	0.40
1:q:256:ARG:HG3	1:r:168:LEU:H	1.87	0.40
1:q:364:SER:HB3	1:q:518:LEU:HD12	2.02	0.40
1:q:389:VAL:CG2	1:r:305:THR:O	2.70	0.40
1:r:277:HIS:CE1	1:s:83:LYS:HB2	2.56	0.40
1:s:339:TRP:HH2	1:s:358:THR:HG22	1.86	0.40
1:t:168:LEU:H	1:v:256:ARG:HG3	1.86	0.40
1:t:183:ILE:HD12	1:6:458:TYR:CZ	2.55	0.40
1:t:498:ALA:HB1	1:t:513:HIS:HB2	2.03	0.40
1:t:499:TYR:CZ	1:6:205:ASN:HB3	2.56	0.40
1:u:251:ILE:CD1	1:v:165:PRO:HB3	2.50	0.40
1:w:309:VAL:HG21	1:y:376:ALA:HB1	2.03	0.40
1:w:427:TYR:O	1:w:435:THR:HG21	2.22	0.40
1:w:478:HIS:HB3	1:w:527:LEU:HD13	2.03	0.40
1:x:48:ILE:CD1	1:x:113:LEU:HD13	2.51	0.40
1:x:389:VAL:CG1	1:y:305:THR:O	2.69	0.40
1:z:305:THR:O	1:2:389:VAL:CG2	2.70	0.40
1:1:277:HIS:CE1	1:2:83:LYS:HB2	2.56	0.40
1:2:342:LYS:HG2	1:2:362:TYR:CE1	2.56	0.40
1:2:511:LEU:HA	1:2:511:LEU:HD12	1.73	0.40
1:3:168:LEU:H	1:4:256:ARG:HG3	1.87	0.40
1:3:305:THR:O	1:4:389:VAL:CG1	2.69	0.40
1:6:269:ARG:CD	1:7:296:GLY:O	2.69	0.40
1:7:127:ILE:O	1:7:232:SER:HA	2.22	0.40
1:8:427:TYR:O	1:8:435:THR:HG21	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	2	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	3	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	4	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	5	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	6	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	7	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	8	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	A	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	B	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	C	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	D	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	E	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	F	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	G	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	H	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	I	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	J	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	K	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	L	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	M	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	N	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	O	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	P	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	Q	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	R	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	S	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	T	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	U	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	V	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	W	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	X	503/531 (95%)	492 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	Z	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	a	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	b	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	c	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	d	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	e	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	f	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	g	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	h	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	i	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	j	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	k	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	l	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	m	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	n	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	o	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	p	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	q	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	r	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	s	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	t	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	u	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	v	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	w	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	x	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	y	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
1	z	503/531 (95%)	492 (98%)	11 (2%)	0	100	100
All	All	30180/31860 (95%)	29520 (98%)	660 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	2	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	3	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	4	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	5	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	6	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	7	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	8	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	A	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	B	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	C	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	D	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	E	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	F	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	G	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	H	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	I	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	J	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	K	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	L	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	M	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	N	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	O	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	P	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	Q	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	R	433/446 (97%)	427 (99%)	6 (1%)	59	76

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	T	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	U	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	V	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	W	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	X	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	Y	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	Z	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	a	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	b	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	c	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	d	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	e	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	f	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	g	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	h	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	i	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	j	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	k	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	l	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	m	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	n	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	o	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	p	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	q	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	r	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	s	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	t	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	u	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	v	433/446 (97%)	427 (99%)	6 (1%)	59	76
1	w	433/446 (97%)	427 (99%)	6 (1%)	59	76

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	x	433/446 (97%)	427 (99%)	6 (1%)	59 76
1	y	433/446 (97%)	427 (99%)	6 (1%)	59 76
1	z	433/446 (97%)	427 (99%)	6 (1%)	59 76
All	All	25980/26760 (97%)	25620 (99%)	360 (1%)	57 76

All (360) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	114	ILE
1	A	118	SER
1	A	140	VAL
1	A	220	SER
1	A	274	LEU
1	A	286	LEU
1	B	114	ILE
1	B	118	SER
1	B	140	VAL
1	B	220	SER
1	B	274	LEU
1	B	286	LEU
1	C	114	ILE
1	C	118	SER
1	C	140	VAL
1	C	220	SER
1	C	274	LEU
1	C	286	LEU
1	D	114	ILE
1	D	118	SER
1	D	140	VAL
1	D	220	SER
1	D	274	LEU
1	D	286	LEU
1	E	114	ILE
1	E	118	SER
1	E	140	VAL
1	E	220	SER
1	E	274	LEU
1	E	286	LEU
1	F	114	ILE
1	F	118	SER
1	F	140	VAL

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Mol	Chain	Res	Type
1	F	220	SER
1	F	274	LEU
1	F	286	LEU
1	G	114	ILE
1	G	118	SER
1	G	140	VAL
1	G	220	SER
1	G	274	LEU
1	G	286	LEU
1	H	114	ILE
1	H	118	SER
1	H	140	VAL
1	H	220	SER
1	H	274	LEU
1	H	286	LEU
1	I	114	ILE
1	I	118	SER
1	I	140	VAL
1	I	220	SER
1	I	274	LEU
1	I	286	LEU
1	J	114	ILE
1	J	118	SER
1	J	140	VAL
1	J	220	SER
1	J	274	LEU
1	J	286	LEU
1	K	114	ILE
1	K	118	SER
1	K	140	VAL
1	K	220	SER
1	K	274	LEU
1	K	286	LEU
1	L	114	ILE
1	L	118	SER
1	L	140	VAL
1	L	220	SER
1	L	274	LEU
1	L	286	LEU
1	M	114	ILE
1	M	118	SER
1	M	140	VAL

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Mol	Chain	Res	Type
1	M	220	SER
1	M	274	LEU
1	M	286	LEU
1	N	114	ILE
1	N	118	SER
1	N	140	VAL
1	N	220	SER
1	N	274	LEU
1	N	286	LEU
1	O	114	ILE
1	O	118	SER
1	O	140	VAL
1	O	220	SER
1	O	274	LEU
1	O	286	LEU
1	P	114	ILE
1	P	118	SER
1	P	140	VAL
1	P	220	SER
1	P	274	LEU
1	P	286	LEU
1	Q	114	ILE
1	Q	118	SER
1	Q	140	VAL
1	Q	220	SER
1	Q	274	LEU
1	Q	286	LEU
1	R	114	ILE
1	R	118	SER
1	R	140	VAL
1	R	220	SER
1	R	274	LEU
1	R	286	LEU
1	S	114	ILE
1	S	118	SER
1	S	140	VAL
1	S	220	SER
1	S	274	LEU
1	S	286	LEU
1	T	114	ILE
1	T	118	SER
1	T	140	VAL

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Mol	Chain	Res	Type
1	T	220	SER
1	T	274	LEU
1	T	286	LEU
1	U	114	ILE
1	U	118	SER
1	U	140	VAL
1	U	220	SER
1	U	274	LEU
1	U	286	LEU
1	V	114	ILE
1	V	118	SER
1	V	140	VAL
1	V	220	SER
1	V	274	LEU
1	V	286	LEU
1	W	114	ILE
1	W	118	SER
1	W	140	VAL
1	W	220	SER
1	W	274	LEU
1	W	286	LEU
1	X	114	ILE
1	X	118	SER
1	X	140	VAL
1	X	220	SER
1	X	274	LEU
1	X	286	LEU
1	Y	114	ILE
1	Y	118	SER
1	Y	140	VAL
1	Y	220	SER
1	Y	274	LEU
1	Y	286	LEU
1	Z	114	ILE
1	Z	118	SER
1	Z	140	VAL
1	Z	220	SER
1	Z	274	LEU
1	Z	286	LEU
1	a	114	ILE
1	a	118	SER
1	a	140	VAL

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Mol	Chain	Res	Type
1	a	220	SER
1	a	274	LEU
1	a	286	LEU
1	b	114	ILE
1	b	118	SER
1	b	140	VAL
1	b	220	SER
1	b	274	LEU
1	b	286	LEU
1	c	114	ILE
1	c	118	SER
1	c	140	VAL
1	c	220	SER
1	c	274	LEU
1	c	286	LEU
1	d	114	ILE
1	d	118	SER
1	d	140	VAL
1	d	220	SER
1	d	274	LEU
1	d	286	LEU
1	e	114	ILE
1	e	118	SER
1	e	140	VAL
1	e	220	SER
1	e	274	LEU
1	e	286	LEU
1	f	114	ILE
1	f	118	SER
1	f	140	VAL
1	f	220	SER
1	f	274	LEU
1	f	286	LEU
1	g	114	ILE
1	g	118	SER
1	g	140	VAL
1	g	220	SER
1	g	274	LEU
1	g	286	LEU
1	h	114	ILE
1	h	118	SER
1	h	140	VAL

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Mol	Chain	Res	Type
1	h	220	SER
1	h	274	LEU
1	h	286	LEU
1	i	114	ILE
1	i	118	SER
1	i	140	VAL
1	i	220	SER
1	i	274	LEU
1	i	286	LEU
1	j	114	ILE
1	j	118	SER
1	j	140	VAL
1	j	220	SER
1	j	274	LEU
1	j	286	LEU
1	k	114	ILE
1	k	118	SER
1	k	140	VAL
1	k	220	SER
1	k	274	LEU
1	k	286	LEU
1	l	114	ILE
1	l	118	SER
1	l	140	VAL
1	l	220	SER
1	l	274	LEU
1	l	286	LEU
1	m	114	ILE
1	m	118	SER
1	m	140	VAL
1	m	220	SER
1	m	274	LEU
1	m	286	LEU
1	n	114	ILE
1	n	118	SER
1	n	140	VAL
1	n	220	SER
1	n	274	LEU
1	n	286	LEU
1	o	114	ILE
1	o	118	SER
1	o	140	VAL

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Mol	Chain	Res	Type
1	o	220	SER
1	o	274	LEU
1	o	286	LEU
1	p	114	ILE
1	p	118	SER
1	p	140	VAL
1	p	220	SER
1	p	274	LEU
1	p	286	LEU
1	q	114	ILE
1	q	118	SER
1	q	140	VAL
1	q	220	SER
1	q	274	LEU
1	q	286	LEU
1	r	114	ILE
1	r	118	SER
1	r	140	VAL
1	r	220	SER
1	r	274	LEU
1	r	286	LEU
1	s	114	ILE
1	s	118	SER
1	s	140	VAL
1	s	220	SER
1	s	274	LEU
1	s	286	LEU
1	t	114	ILE
1	t	118	SER
1	t	140	VAL
1	t	220	SER
1	t	274	LEU
1	t	286	LEU
1	u	114	ILE
1	u	118	SER
1	u	140	VAL
1	u	220	SER
1	u	274	LEU
1	u	286	LEU
1	v	114	ILE
1	v	118	SER
1	v	140	VAL

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Mol	Chain	Res	Type
1	v	220	SER
1	v	274	LEU
1	v	286	LEU
1	w	114	ILE
1	w	118	SER
1	w	140	VAL
1	w	220	SER
1	w	274	LEU
1	w	286	LEU
1	x	114	ILE
1	x	118	SER
1	x	140	VAL
1	x	220	SER
1	x	274	LEU
1	x	286	LEU
1	y	114	ILE
1	y	118	SER
1	y	140	VAL
1	y	220	SER
1	y	274	LEU
1	y	286	LEU
1	z	114	ILE
1	z	118	SER
1	z	140	VAL
1	z	220	SER
1	z	274	LEU
1	z	286	LEU
1	1	114	ILE
1	1	118	SER
1	1	140	VAL
1	1	220	SER
1	1	274	LEU
1	1	286	LEU
1	2	114	ILE
1	2	118	SER
1	2	140	VAL
1	2	220	SER
1	2	274	LEU
1	2	286	LEU
1	3	114	ILE
1	3	118	SER
1	3	140	VAL

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Mol	Chain	Res	Type
1	3	220	SER
1	3	274	LEU
1	3	286	LEU
1	4	114	ILE
1	4	118	SER
1	4	140	VAL
1	4	220	SER
1	4	274	LEU
1	4	286	LEU
1	5	114	ILE
1	5	118	SER
1	5	140	VAL
1	5	220	SER
1	5	274	LEU
1	5	286	LEU
1	6	114	ILE
1	6	118	SER
1	6	140	VAL
1	6	220	SER
1	6	274	LEU
1	6	286	LEU
1	7	114	ILE
1	7	118	SER
1	7	140	VAL
1	7	220	SER
1	7	274	LEU
1	7	286	LEU
1	8	114	ILE
1	8	118	SER
1	8	140	VAL
1	8	220	SER
1	8	274	LEU
1	8	286	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (840) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	ASN
1	A	82	ASN
1	A	100	GLN
1	A	126	HIS
1	A	133	GLN

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Mol	Chain	Res	Type
1	A	182	HIS
1	A	234	HIS
1	A	265	GLN
1	A	277	HIS
1	A	379	GLN
1	A	416	GLN
1	A	512	ASN
1	A	513	HIS
1	B	40	ASN
1	B	82	ASN
1	B	100	GLN
1	B	126	HIS
1	B	133	GLN
1	B	182	HIS
1	B	234	HIS
1	B	265	GLN
1	B	277	HIS
1	B	379	GLN
1	B	392	GLN
1	B	416	GLN
1	B	512	ASN
1	C	40	ASN
1	C	82	ASN
1	C	100	GLN
1	C	126	HIS
1	C	133	GLN
1	C	182	HIS
1	C	234	HIS
1	C	265	GLN
1	C	277	HIS
1	C	379	GLN
1	C	393	GLN
1	C	416	GLN
1	C	512	ASN
1	C	513	HIS
1	C	526	ASN
1	D	40	ASN
1	D	82	ASN
1	D	100	GLN
1	D	126	HIS
1	D	133	GLN
1	D	182	HIS

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Mol	Chain	Res	Type
1	D	234	HIS
1	D	265	GLN
1	D	277	HIS
1	D	379	GLN
1	D	416	GLN
1	D	512	ASN
1	D	513	HIS
1	E	40	ASN
1	E	82	ASN
1	E	100	GLN
1	E	126	HIS
1	E	133	GLN
1	E	182	HIS
1	E	234	HIS
1	E	265	GLN
1	E	277	HIS
1	E	379	GLN
1	E	392	GLN
1	E	393	GLN
1	E	416	GLN
1	E	512	ASN
1	E	513	HIS
1	F	40	ASN
1	F	82	ASN
1	F	100	GLN
1	F	126	HIS
1	F	133	GLN
1	F	182	HIS
1	F	234	HIS
1	F	265	GLN
1	F	277	HIS
1	F	379	GLN
1	F	392	GLN
1	F	416	GLN
1	F	512	ASN
1	F	513	HIS
1	G	40	ASN
1	G	82	ASN
1	G	100	GLN
1	G	126	HIS
1	G	133	GLN
1	G	182	HIS

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Mol	Chain	Res	Type
1	G	234	HIS
1	G	265	GLN
1	G	277	HIS
1	G	355	GLN
1	G	379	GLN
1	G	416	GLN
1	G	512	ASN
1	G	513	HIS
1	H	40	ASN
1	H	82	ASN
1	H	100	GLN
1	H	126	HIS
1	H	133	GLN
1	H	182	HIS
1	H	234	HIS
1	H	265	GLN
1	H	277	HIS
1	H	355	GLN
1	H	379	GLN
1	H	416	GLN
1	H	512	ASN
1	H	513	HIS
1	I	40	ASN
1	I	82	ASN
1	I	100	GLN
1	I	126	HIS
1	I	133	GLN
1	I	182	HIS
1	I	234	HIS
1	I	265	GLN
1	I	277	HIS
1	I	355	GLN
1	I	379	GLN
1	I	416	GLN
1	I	512	ASN
1	I	513	HIS
1	I	526	ASN
1	J	40	ASN
1	J	82	ASN
1	J	100	GLN
1	J	126	HIS
1	J	133	GLN

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Mol	Chain	Res	Type
1	J	182	HIS
1	J	234	HIS
1	J	265	GLN
1	J	277	HIS
1	J	379	GLN
1	J	392	GLN
1	J	393	GLN
1	J	416	GLN
1	J	512	ASN
1	J	513	HIS
1	K	40	ASN
1	K	82	ASN
1	K	100	GLN
1	K	126	HIS
1	K	133	GLN
1	K	182	HIS
1	K	234	HIS
1	K	265	GLN
1	K	277	HIS
1	K	379	GLN
1	K	392	GLN
1	K	416	GLN
1	K	512	ASN
1	K	513	HIS
1	L	40	ASN
1	L	82	ASN
1	L	100	GLN
1	L	126	HIS
1	L	133	GLN
1	L	182	HIS
1	L	234	HIS
1	L	265	GLN
1	L	277	HIS
1	L	379	GLN
1	L	393	GLN
1	L	416	GLN
1	L	512	ASN
1	L	513	HIS
1	M	40	ASN
1	M	82	ASN
1	M	100	GLN
1	M	126	HIS

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Mol	Chain	Res	Type
1	M	133	GLN
1	M	182	HIS
1	M	234	HIS
1	M	265	GLN
1	M	277	HIS
1	M	379	GLN
1	M	392	GLN
1	M	416	GLN
1	M	512	ASN
1	M	513	HIS
1	N	40	ASN
1	N	82	ASN
1	N	100	GLN
1	N	126	HIS
1	N	133	GLN
1	N	182	HIS
1	N	234	HIS
1	N	265	GLN
1	N	277	HIS
1	N	355	GLN
1	N	379	GLN
1	N	416	GLN
1	N	512	ASN
1	N	513	HIS
1	O	40	ASN
1	O	82	ASN
1	O	100	GLN
1	O	126	HIS
1	O	133	GLN
1	O	182	HIS
1	O	234	HIS
1	O	265	GLN
1	O	277	HIS
1	O	355	GLN
1	O	379	GLN
1	O	392	GLN
1	O	416	GLN
1	O	512	ASN
1	O	513	HIS
1	P	40	ASN
1	P	82	ASN
1	P	100	GLN

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Mol	Chain	Res	Type
1	P	126	HIS
1	P	133	GLN
1	P	182	HIS
1	P	234	HIS
1	P	265	GLN
1	P	277	HIS
1	P	379	GLN
1	P	416	GLN
1	P	512	ASN
1	P	513	HIS
1	Q	40	ASN
1	Q	82	ASN
1	Q	100	GLN
1	Q	126	HIS
1	Q	133	GLN
1	Q	182	HIS
1	Q	234	HIS
1	Q	265	GLN
1	Q	277	HIS
1	Q	379	GLN
1	Q	393	GLN
1	Q	416	GLN
1	Q	512	ASN
1	Q	513	HIS
1	R	40	ASN
1	R	82	ASN
1	R	100	GLN
1	R	126	HIS
1	R	133	GLN
1	R	182	HIS
1	R	234	HIS
1	R	265	GLN
1	R	277	HIS
1	R	379	GLN
1	R	416	GLN
1	R	512	ASN
1	R	513	HIS
1	S	40	ASN
1	S	82	ASN
1	S	100	GLN
1	S	126	HIS
1	S	133	GLN

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Mol	Chain	Res	Type
1	S	182	HIS
1	S	234	HIS
1	S	265	GLN
1	S	277	HIS
1	S	355	GLN
1	S	379	GLN
1	S	416	GLN
1	S	512	ASN
1	S	513	HIS
1	T	40	ASN
1	T	82	ASN
1	T	100	GLN
1	T	126	HIS
1	T	133	GLN
1	T	182	HIS
1	T	234	HIS
1	T	265	GLN
1	T	277	HIS
1	T	379	GLN
1	T	393	GLN
1	T	416	GLN
1	T	512	ASN
1	T	513	HIS
1	T	526	ASN
1	U	40	ASN
1	U	82	ASN
1	U	100	GLN
1	U	126	HIS
1	U	133	GLN
1	U	182	HIS
1	U	234	HIS
1	U	265	GLN
1	U	277	HIS
1	U	355	GLN
1	U	379	GLN
1	U	416	GLN
1	U	512	ASN
1	U	513	HIS
1	V	40	ASN
1	V	82	ASN
1	V	100	GLN
1	V	126	HIS

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Mol	Chain	Res	Type
1	V	133	GLN
1	V	182	HIS
1	V	234	HIS
1	V	265	GLN
1	V	277	HIS
1	V	379	GLN
1	V	392	GLN
1	V	416	GLN
1	V	512	ASN
1	V	513	HIS
1	W	40	ASN
1	W	82	ASN
1	W	100	GLN
1	W	126	HIS
1	W	133	GLN
1	W	182	HIS
1	W	234	HIS
1	W	265	GLN
1	W	277	HIS
1	W	379	GLN
1	W	392	GLN
1	W	416	GLN
1	W	512	ASN
1	W	513	HIS
1	X	40	ASN
1	X	82	ASN
1	X	100	GLN
1	X	126	HIS
1	X	133	GLN
1	X	182	HIS
1	X	234	HIS
1	X	265	GLN
1	X	277	HIS
1	X	379	GLN
1	X	416	GLN
1	X	512	ASN
1	X	513	HIS
1	Y	40	ASN
1	Y	82	ASN
1	Y	100	GLN
1	Y	126	HIS
1	Y	133	GLN

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Mol	Chain	Res	Type
1	Y	182	HIS
1	Y	234	HIS
1	Y	265	GLN
1	Y	277	HIS
1	Y	379	GLN
1	Y	393	GLN
1	Y	416	GLN
1	Y	512	ASN
1	Y	513	HIS
1	Z	40	ASN
1	Z	82	ASN
1	Z	100	GLN
1	Z	126	HIS
1	Z	133	GLN
1	Z	182	HIS
1	Z	234	HIS
1	Z	265	GLN
1	Z	277	HIS
1	Z	379	GLN
1	Z	416	GLN
1	Z	512	ASN
1	Z	513	HIS
1	a	40	ASN
1	a	82	ASN
1	a	100	GLN
1	a	126	HIS
1	a	133	GLN
1	a	182	HIS
1	a	234	HIS
1	a	265	GLN
1	a	277	HIS
1	a	379	GLN
1	a	393	GLN
1	a	416	GLN
1	a	512	ASN
1	a	513	HIS
1	a	526	ASN
1	b	40	ASN
1	b	82	ASN
1	b	100	GLN
1	b	126	HIS
1	b	133	GLN

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Mol	Chain	Res	Type
1	b	182	HIS
1	b	234	HIS
1	b	265	GLN
1	b	277	HIS
1	b	355	GLN
1	b	379	GLN
1	b	416	GLN
1	b	512	ASN
1	b	513	HIS
1	c	40	ASN
1	c	82	ASN
1	c	100	GLN
1	c	126	HIS
1	c	133	GLN
1	c	182	HIS
1	c	234	HIS
1	c	265	GLN
1	c	277	HIS
1	c	379	GLN
1	c	393	GLN
1	c	416	GLN
1	c	512	ASN
1	c	513	HIS
1	d	40	ASN
1	d	82	ASN
1	d	100	GLN
1	d	126	HIS
1	d	133	GLN
1	d	182	HIS
1	d	234	HIS
1	d	265	GLN
1	d	277	HIS
1	d	379	GLN
1	d	416	GLN
1	d	512	ASN
1	d	513	HIS
1	e	40	ASN
1	e	82	ASN
1	e	100	GLN
1	e	126	HIS
1	e	133	GLN
1	e	182	HIS

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Mol	Chain	Res	Type
1	e	234	HIS
1	e	265	GLN
1	e	277	HIS
1	e	379	GLN
1	e	393	GLN
1	e	416	GLN
1	e	512	ASN
1	e	513	HIS
1	f	40	ASN
1	f	82	ASN
1	f	100	GLN
1	f	126	HIS
1	f	133	GLN
1	f	182	HIS
1	f	234	HIS
1	f	265	GLN
1	f	277	HIS
1	f	379	GLN
1	f	416	GLN
1	f	512	ASN
1	f	513	HIS
1	g	40	ASN
1	g	82	ASN
1	g	100	GLN
1	g	126	HIS
1	g	133	GLN
1	g	182	HIS
1	g	234	HIS
1	g	265	GLN
1	g	277	HIS
1	g	379	GLN
1	g	393	GLN
1	g	416	GLN
1	g	512	ASN
1	g	513	HIS
1	g	526	ASN
1	h	40	ASN
1	h	82	ASN
1	h	100	GLN
1	h	126	HIS
1	h	133	GLN
1	h	182	HIS

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Mol	Chain	Res	Type
1	h	234	HIS
1	h	265	GLN
1	h	277	HIS
1	h	379	GLN
1	h	392	GLN
1	h	416	GLN
1	h	512	ASN
1	h	513	HIS
1	i	40	ASN
1	i	82	ASN
1	i	100	GLN
1	i	126	HIS
1	i	133	GLN
1	i	182	HIS
1	i	234	HIS
1	i	265	GLN
1	i	277	HIS
1	i	379	GLN
1	i	416	GLN
1	i	512	ASN
1	i	513	HIS
1	j	40	ASN
1	j	82	ASN
1	j	100	GLN
1	j	126	HIS
1	j	133	GLN
1	j	182	HIS
1	j	234	HIS
1	j	265	GLN
1	j	277	HIS
1	j	379	GLN
1	j	416	GLN
1	j	512	ASN
1	j	513	HIS
1	j	526	ASN
1	k	40	ASN
1	k	82	ASN
1	k	100	GLN
1	k	126	HIS
1	k	133	GLN
1	k	182	HIS
1	k	234	HIS

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Mol	Chain	Res	Type
1	k	265	GLN
1	k	277	HIS
1	k	379	GLN
1	k	416	GLN
1	k	512	ASN
1	k	513	HIS
1	k	526	ASN
1	l	40	ASN
1	l	82	ASN
1	l	100	GLN
1	l	126	HIS
1	l	133	GLN
1	l	182	HIS
1	l	234	HIS
1	l	265	GLN
1	l	277	HIS
1	l	355	GLN
1	l	379	GLN
1	l	392	GLN
1	l	416	GLN
1	l	512	ASN
1	l	513	HIS
1	m	40	ASN
1	m	82	ASN
1	m	100	GLN
1	m	126	HIS
1	m	133	GLN
1	m	182	HIS
1	m	234	HIS
1	m	265	GLN
1	m	277	HIS
1	m	355	GLN
1	m	379	GLN
1	m	393	GLN
1	m	416	GLN
1	m	512	ASN
1	m	513	HIS
1	m	526	ASN
1	n	40	ASN
1	n	82	ASN
1	n	100	GLN
1	n	126	HIS

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Mol	Chain	Res	Type
1	n	133	GLN
1	n	182	HIS
1	n	234	HIS
1	n	265	GLN
1	n	277	HIS
1	n	379	GLN
1	n	416	GLN
1	n	512	ASN
1	n	513	HIS
1	o	40	ASN
1	o	82	ASN
1	o	100	GLN
1	o	126	HIS
1	o	133	GLN
1	o	182	HIS
1	o	234	HIS
1	o	265	GLN
1	o	277	HIS
1	o	379	GLN
1	o	416	GLN
1	o	512	ASN
1	o	513	HIS
1	p	40	ASN
1	p	82	ASN
1	p	100	GLN
1	p	126	HIS
1	p	133	GLN
1	p	182	HIS
1	p	234	HIS
1	p	265	GLN
1	p	277	HIS
1	p	379	GLN
1	p	392	GLN
1	p	416	GLN
1	p	512	ASN
1	p	513	HIS
1	q	40	ASN
1	q	82	ASN
1	q	100	GLN
1	q	126	HIS
1	q	133	GLN
1	q	182	HIS

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Mol	Chain	Res	Type
1	q	234	HIS
1	q	265	GLN
1	q	277	HIS
1	q	379	GLN
1	q	416	GLN
1	q	512	ASN
1	q	513	HIS
1	r	40	ASN
1	r	82	ASN
1	r	100	GLN
1	r	126	HIS
1	r	133	GLN
1	r	182	HIS
1	r	234	HIS
1	r	265	GLN
1	r	277	HIS
1	r	379	GLN
1	r	416	GLN
1	r	512	ASN
1	r	513	HIS
1	s	40	ASN
1	s	82	ASN
1	s	100	GLN
1	s	126	HIS
1	s	133	GLN
1	s	182	HIS
1	s	234	HIS
1	s	265	GLN
1	s	277	HIS
1	s	355	GLN
1	s	379	GLN
1	s	416	GLN
1	s	512	ASN
1	s	513	HIS
1	t	40	ASN
1	t	82	ASN
1	t	100	GLN
1	t	126	HIS
1	t	133	GLN
1	t	182	HIS
1	t	234	HIS
1	t	265	GLN

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Mol	Chain	Res	Type
1	t	277	HIS
1	t	355	GLN
1	t	379	GLN
1	t	416	GLN
1	t	512	ASN
1	t	513	HIS
1	u	40	ASN
1	u	82	ASN
1	u	100	GLN
1	u	126	HIS
1	u	133	GLN
1	u	182	HIS
1	u	234	HIS
1	u	265	GLN
1	u	277	HIS
1	u	355	GLN
1	u	379	GLN
1	u	416	GLN
1	u	512	ASN
1	u	513	HIS
1	u	526	ASN
1	v	40	ASN
1	v	82	ASN
1	v	100	GLN
1	v	126	HIS
1	v	133	GLN
1	v	182	HIS
1	v	234	HIS
1	v	265	GLN
1	v	277	HIS
1	v	379	GLN
1	v	416	GLN
1	v	512	ASN
1	v	513	HIS
1	w	40	ASN
1	w	82	ASN
1	w	100	GLN
1	w	126	HIS
1	w	133	GLN
1	w	182	HIS
1	w	234	HIS
1	w	265	GLN

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Mol	Chain	Res	Type
1	w	277	HIS
1	w	379	GLN
1	w	392	GLN
1	w	416	GLN
1	w	512	ASN
1	w	513	HIS
1	w	526	ASN
1	x	40	ASN
1	x	82	ASN
1	x	100	GLN
1	x	126	HIS
1	x	133	GLN
1	x	182	HIS
1	x	234	HIS
1	x	265	GLN
1	x	277	HIS
1	x	379	GLN
1	x	392	GLN
1	x	393	GLN
1	x	416	GLN
1	x	512	ASN
1	x	513	HIS
1	y	40	ASN
1	y	82	ASN
1	y	100	GLN
1	y	126	HIS
1	y	133	GLN
1	y	182	HIS
1	y	234	HIS
1	y	265	GLN
1	y	277	HIS
1	y	379	GLN
1	y	393	GLN
1	y	416	GLN
1	y	512	ASN
1	y	513	HIS
1	z	40	ASN
1	z	82	ASN
1	z	100	GLN
1	z	126	HIS
1	z	133	GLN
1	z	182	HIS

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Mol	Chain	Res	Type
1	z	234	HIS
1	z	265	GLN
1	z	277	HIS
1	z	379	GLN
1	z	416	GLN
1	z	512	ASN
1	z	513	HIS
1	1	40	ASN
1	1	82	ASN
1	1	100	GLN
1	1	126	HIS
1	1	133	GLN
1	1	182	HIS
1	1	234	HIS
1	1	265	GLN
1	1	277	HIS
1	1	379	GLN
1	1	392	GLN
1	1	416	GLN
1	1	512	ASN
1	1	513	HIS
1	2	40	ASN
1	2	82	ASN
1	2	100	GLN
1	2	126	HIS
1	2	133	GLN
1	2	182	HIS
1	2	234	HIS
1	2	265	GLN
1	2	277	HIS
1	2	379	GLN
1	2	393	GLN
1	2	416	GLN
1	2	512	ASN
1	2	513	HIS
1	3	40	ASN
1	3	82	ASN
1	3	100	GLN
1	3	126	HIS
1	3	133	GLN
1	3	182	HIS
1	3	234	HIS

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Mol	Chain	Res	Type
1	3	265	GLN
1	3	277	HIS
1	3	379	GLN
1	3	393	GLN
1	3	416	GLN
1	3	512	ASN
1	3	513	HIS
1	4	40	ASN
1	4	82	ASN
1	4	100	GLN
1	4	126	HIS
1	4	133	GLN
1	4	182	HIS
1	4	234	HIS
1	4	265	GLN
1	4	277	HIS
1	4	379	GLN
1	4	392	GLN
1	4	416	GLN
1	4	512	ASN
1	4	513	HIS
1	5	40	ASN
1	5	82	ASN
1	5	100	GLN
1	5	126	HIS
1	5	133	GLN
1	5	182	HIS
1	5	234	HIS
1	5	265	GLN
1	5	277	HIS
1	5	355	GLN
1	5	379	GLN
1	5	416	GLN
1	5	512	ASN
1	5	513	HIS
1	6	40	ASN
1	6	82	ASN
1	6	100	GLN
1	6	126	HIS
1	6	133	GLN
1	6	182	HIS
1	6	234	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	6	265	GLN
1	6	277	HIS
1	6	379	GLN
1	6	392	GLN
1	6	416	GLN
1	6	512	ASN
1	6	513	HIS
1	6	526	ASN
1	7	40	ASN
1	7	82	ASN
1	7	100	GLN
1	7	126	HIS
1	7	133	GLN
1	7	182	HIS
1	7	234	HIS
1	7	265	GLN
1	7	277	HIS
1	7	379	GLN
1	7	393	GLN
1	7	416	GLN
1	7	512	ASN
1	7	513	HIS
1	7	526	ASN
1	8	40	ASN
1	8	82	ASN
1	8	100	GLN
1	8	126	HIS
1	8	133	GLN
1	8	182	HIS
1	8	234	HIS
1	8	265	GLN
1	8	277	HIS
1	8	379	GLN
1	8	416	GLN
1	8	512	ASN
1	8	513	HIS
1	8	526	ASN

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)

Of 120 ligands modelled in this entry, 120 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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.

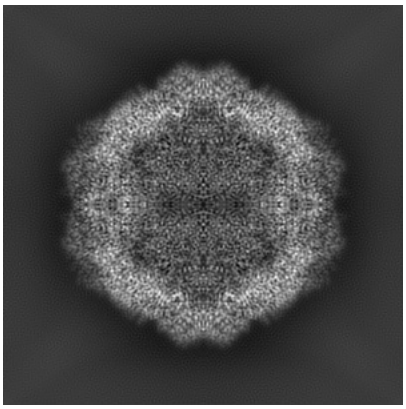
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-48926. These allow visual inspection of the internal detail of the map and identification of artifacts.

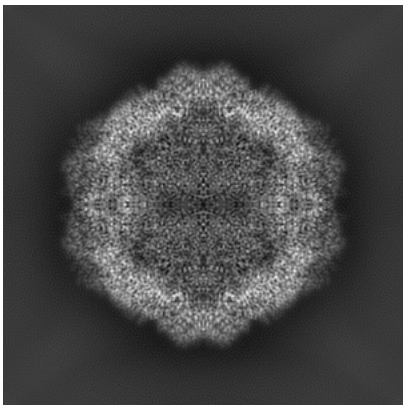
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

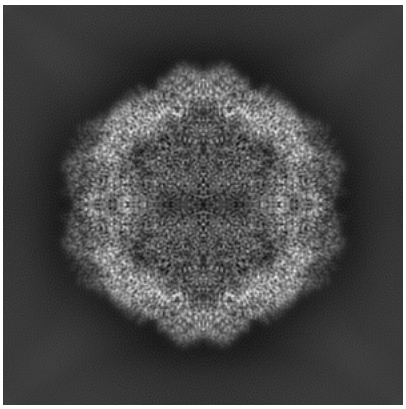
6.1.1 Primary map



X

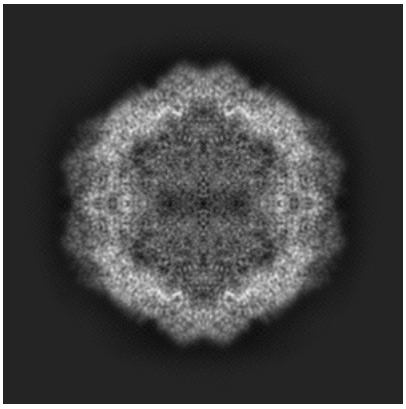


Y

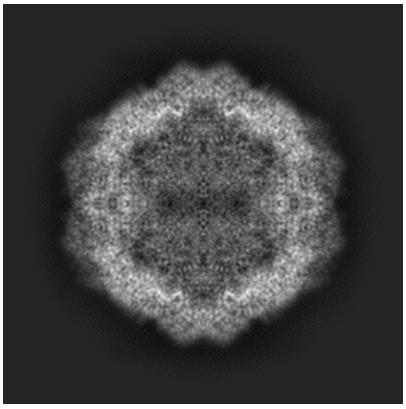


Z

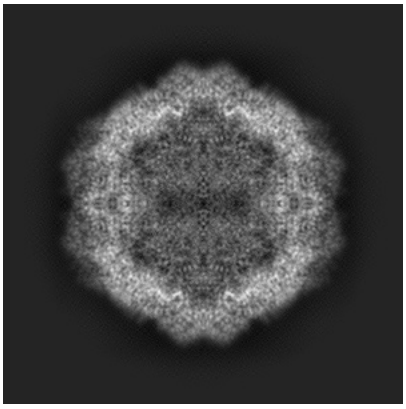
6.1.2 Raw map



X



Y

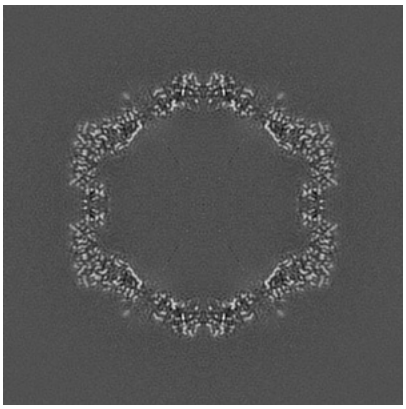


Z

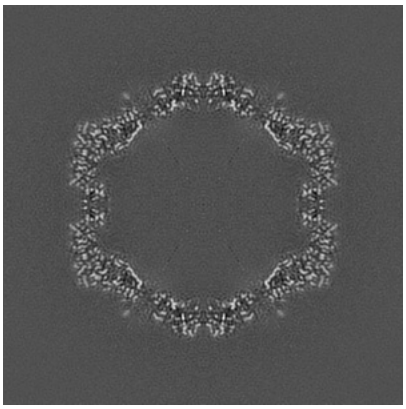
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

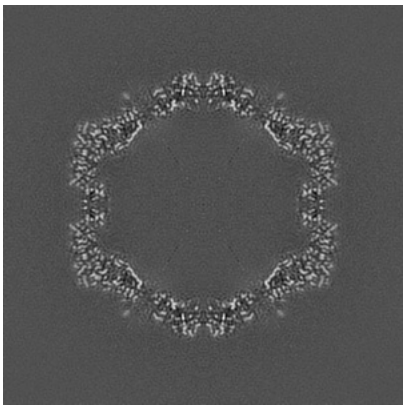
6.2.1 Primary map



X Index: 250

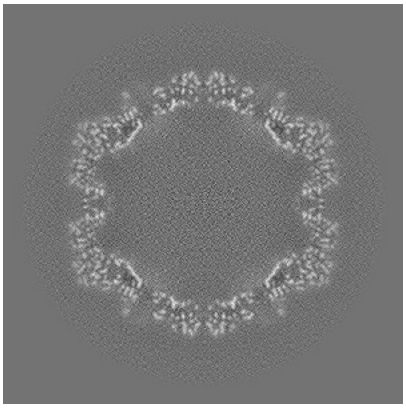


Y Index: 250

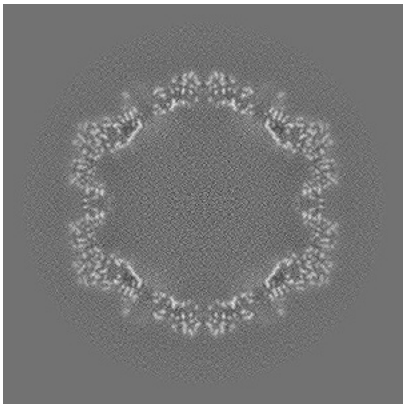


Z Index: 250

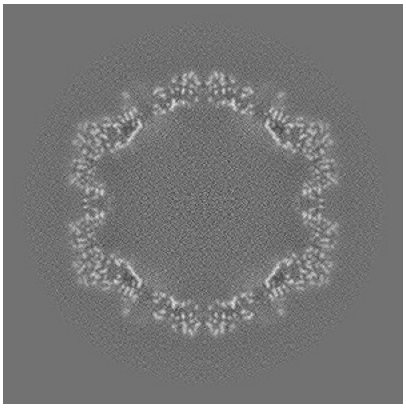
6.2.2 Raw map



X Index: 250



Y Index: 250

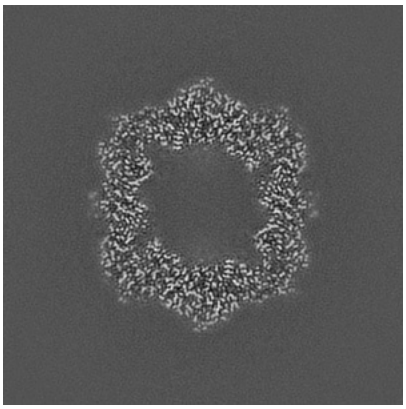


Z Index: 250

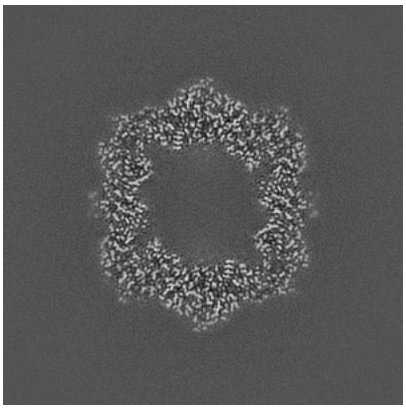
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

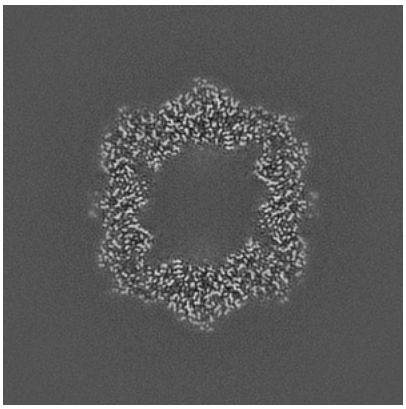
6.3.1 Primary map



X Index: 344

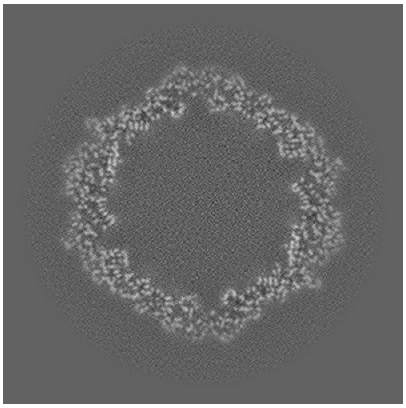


Y Index: 344

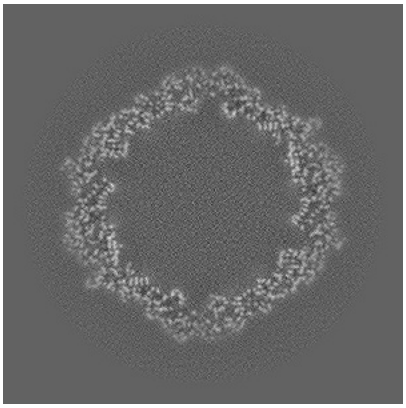


Z Index: 156

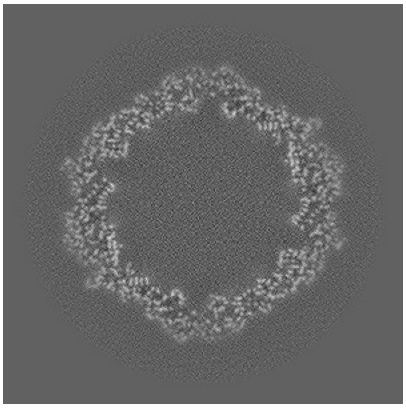
6.3.2 Raw map



X Index: 221



Y Index: 279

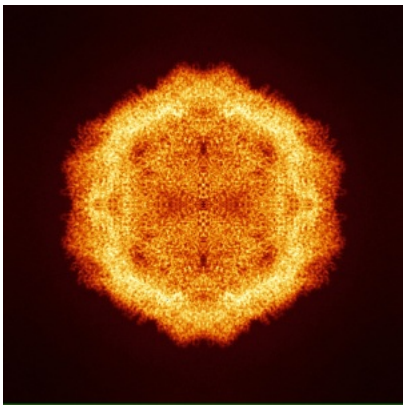


Z Index: 279

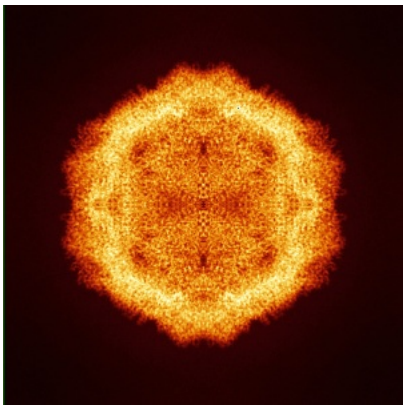
The images above show the largest variance slices of the map in three orthogonal directions.

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

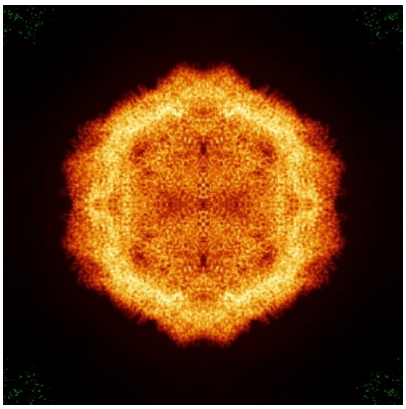
6.4.1 Primary map



X

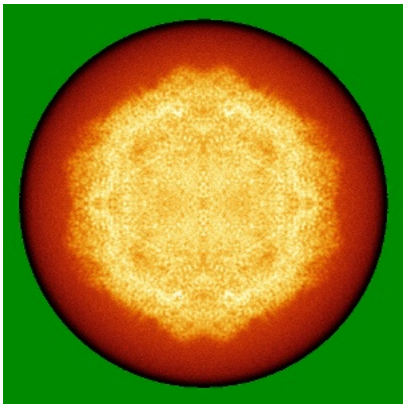


Y

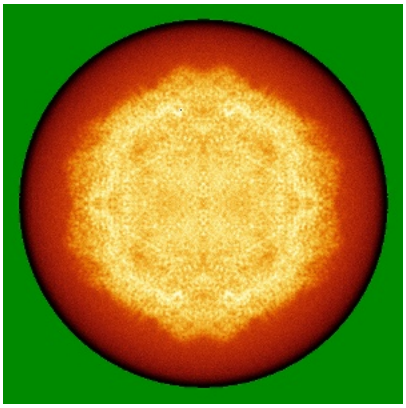


Z

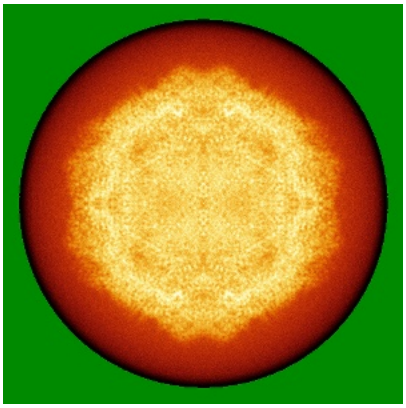
6.4.2 Raw map



X



Y

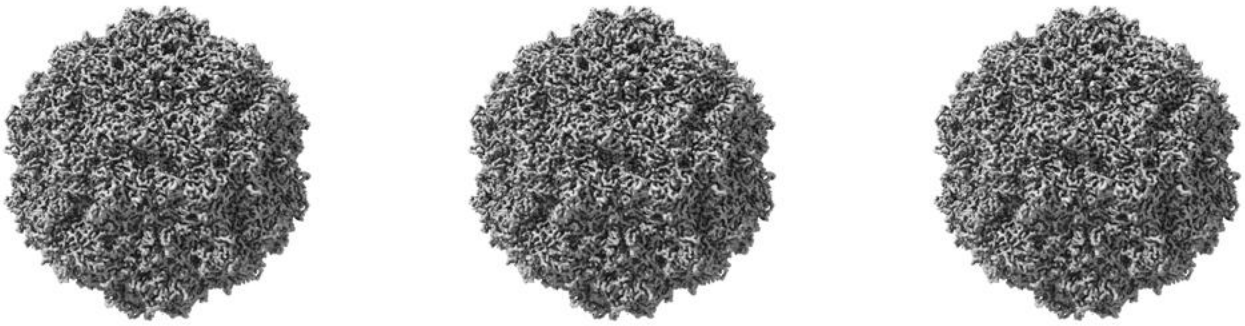


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

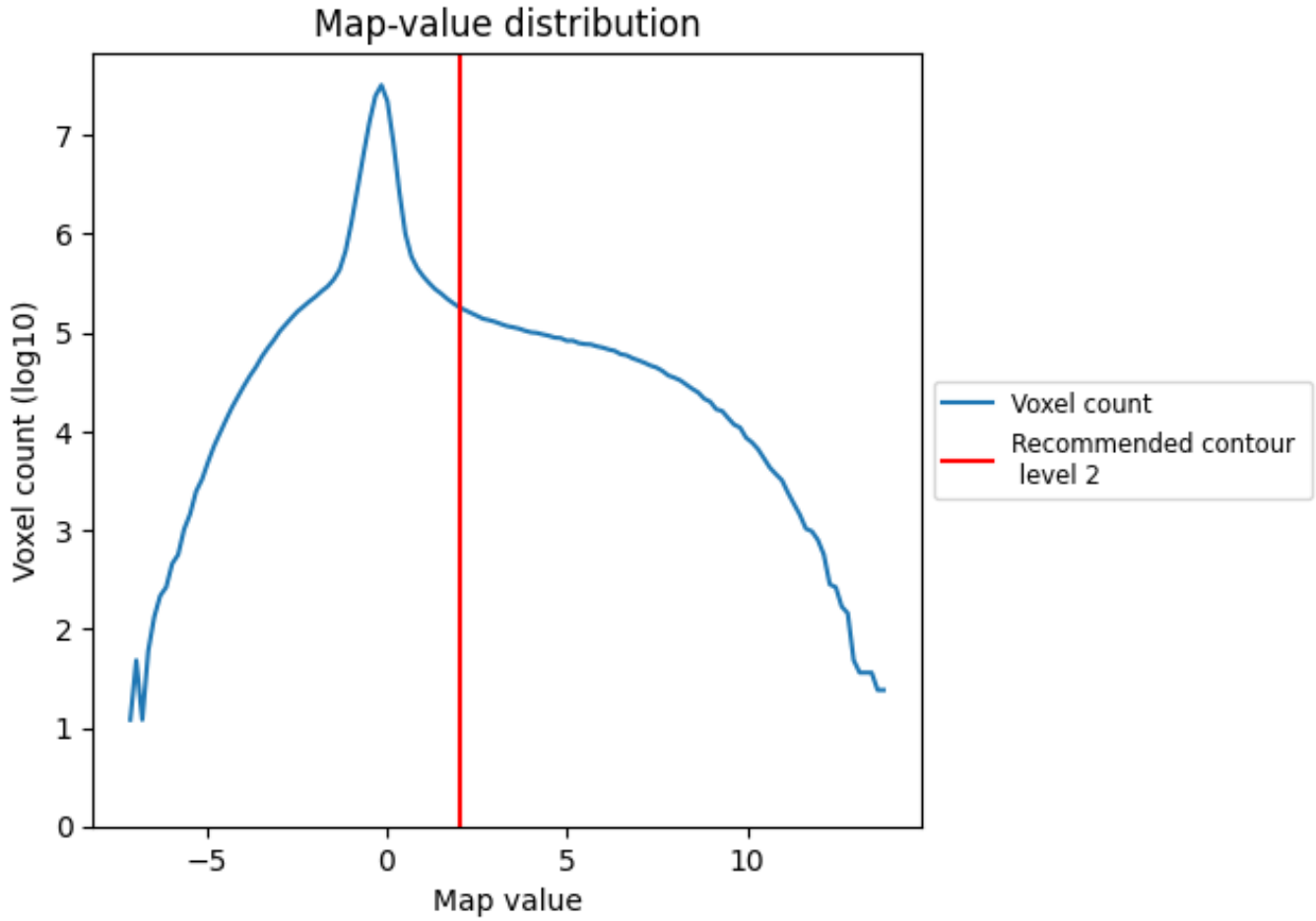
6.6 Mask visualisation (i)

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

7 Map analysis

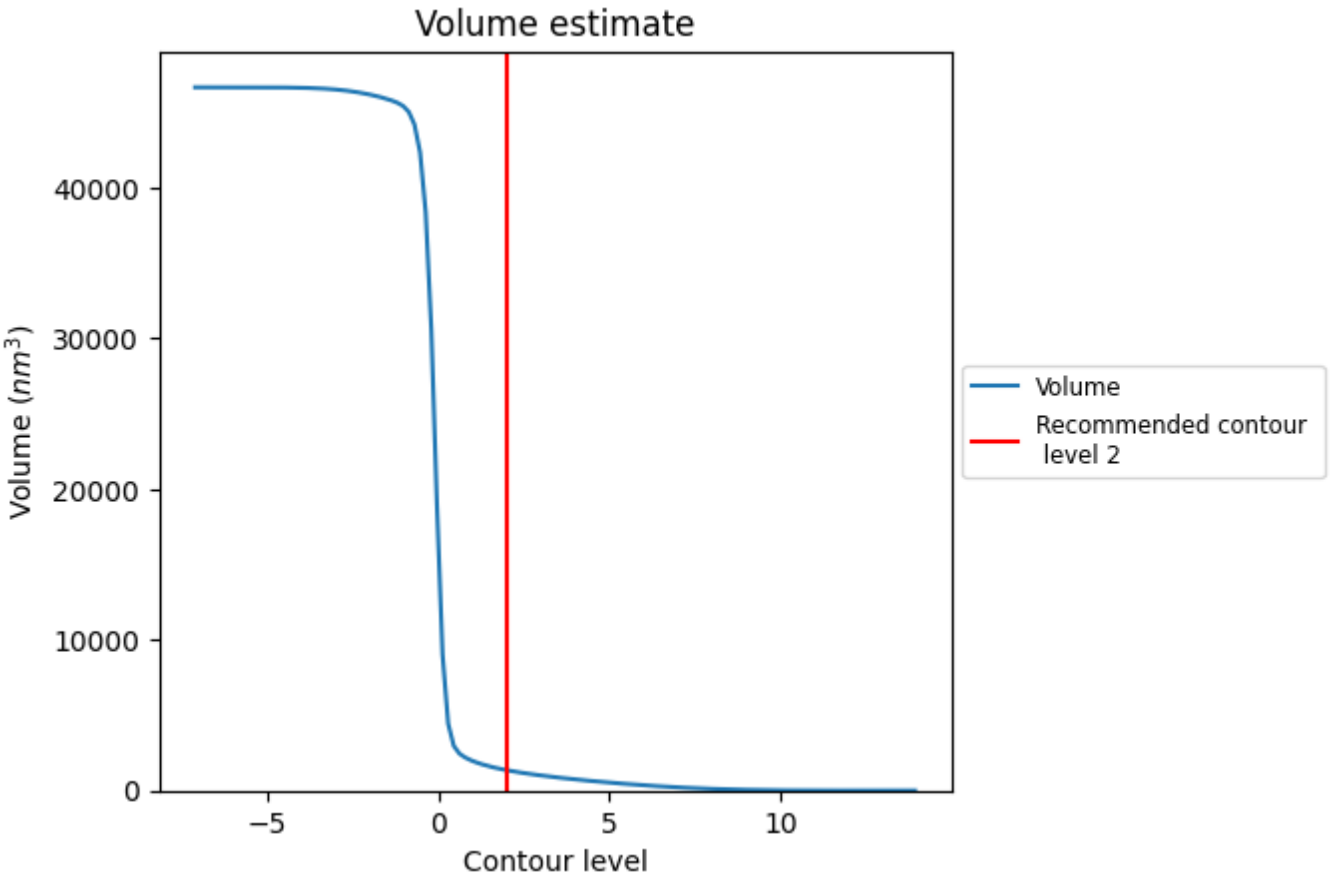
This section contains the results of statistical analysis of the map.

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.

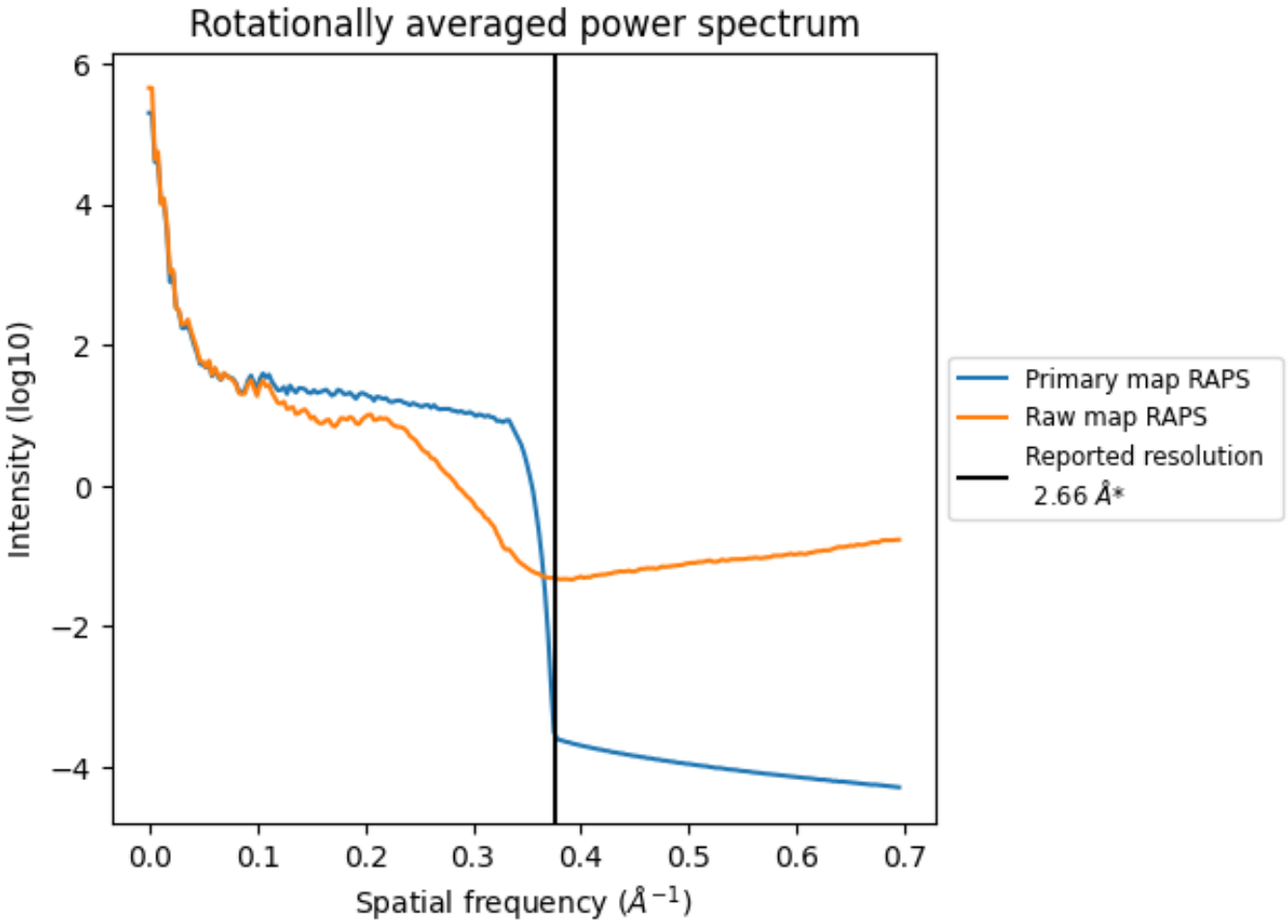
7.2 Volume estimate



The volume at the recommended contour level is 1353 nm^3; this corresponds to an approximate mass of 1222 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)

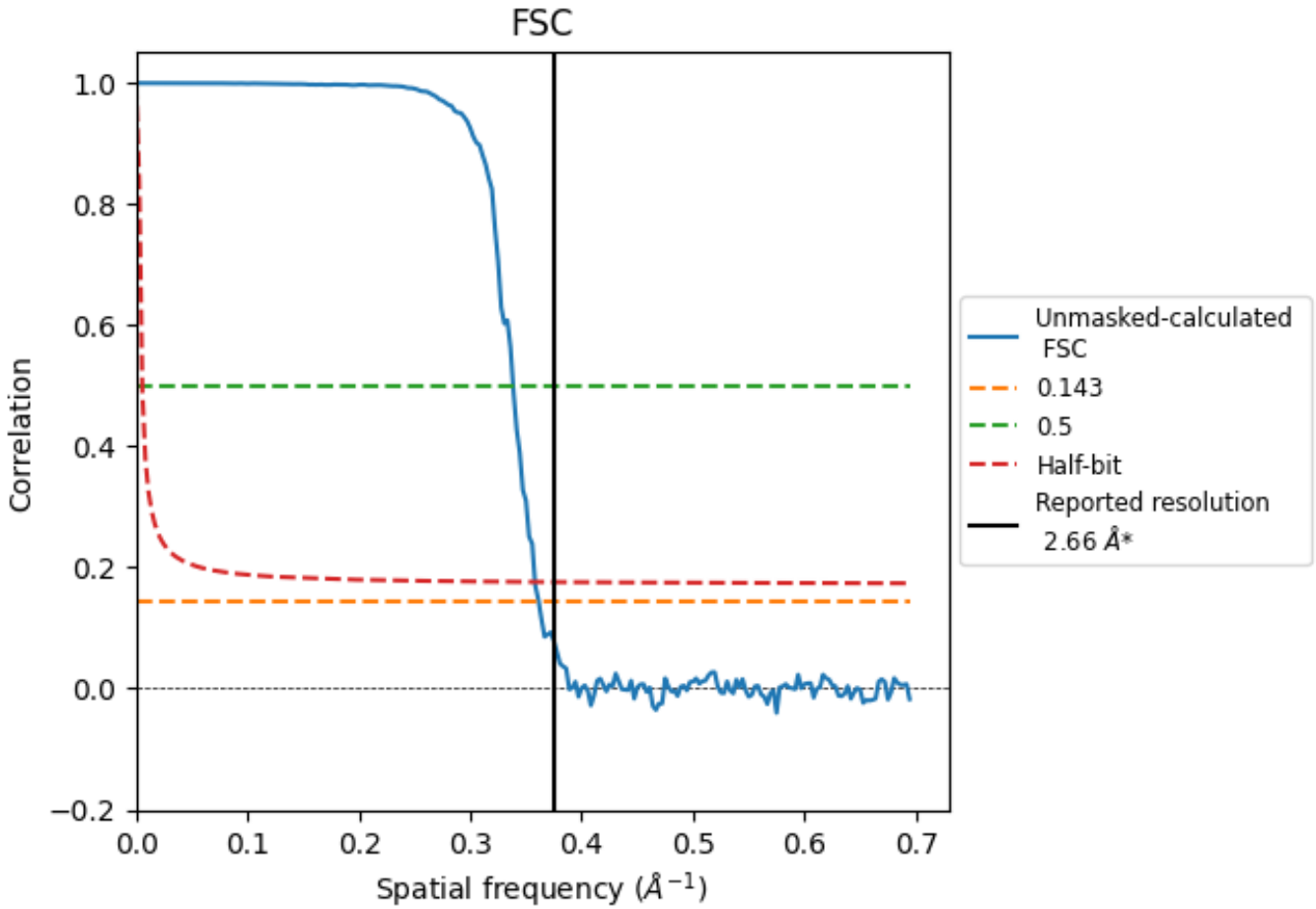


*Reported resolution corresponds to spatial frequency of 0.376 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.376 Å^{-1}

8.2 Resolution estimates (i)

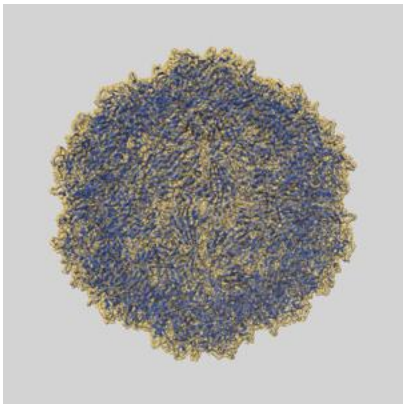
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.66	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.77	2.95	2.79

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

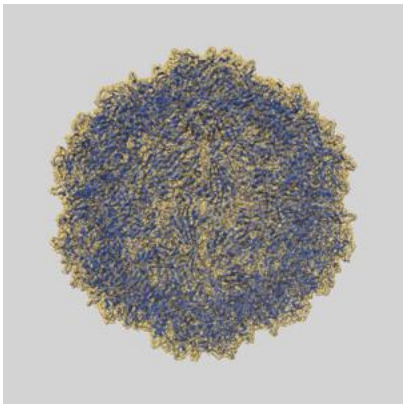
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-48926 and PDB model 9N5L. Per-residue inclusion information can be found in section 3 on page 12.

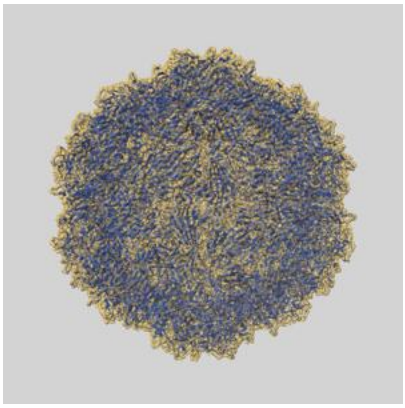
9.1 Map-model overlay



X



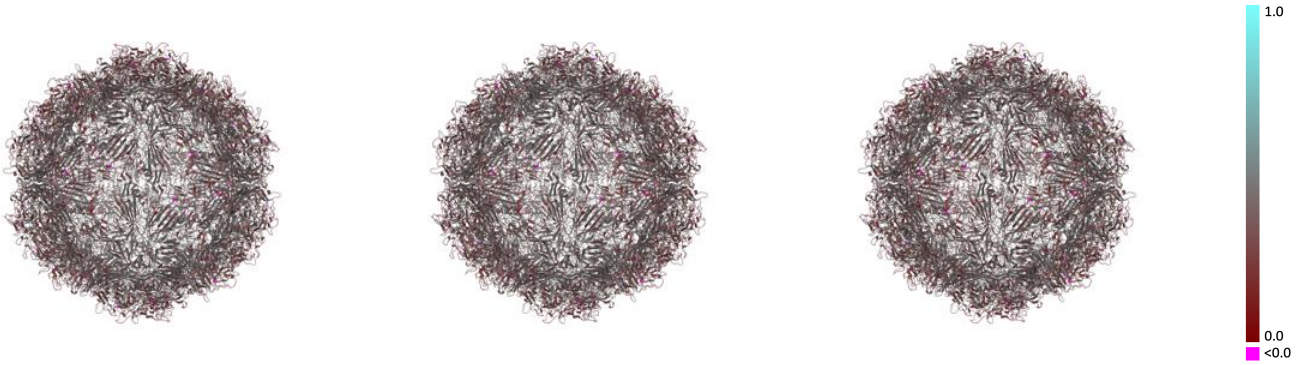
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0 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.

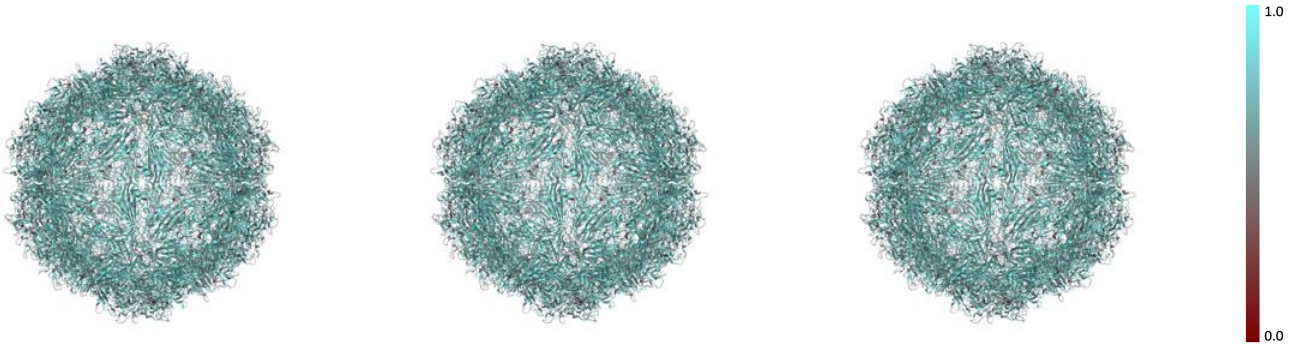
9.2 Q-score mapped to coordinate model (i)



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.

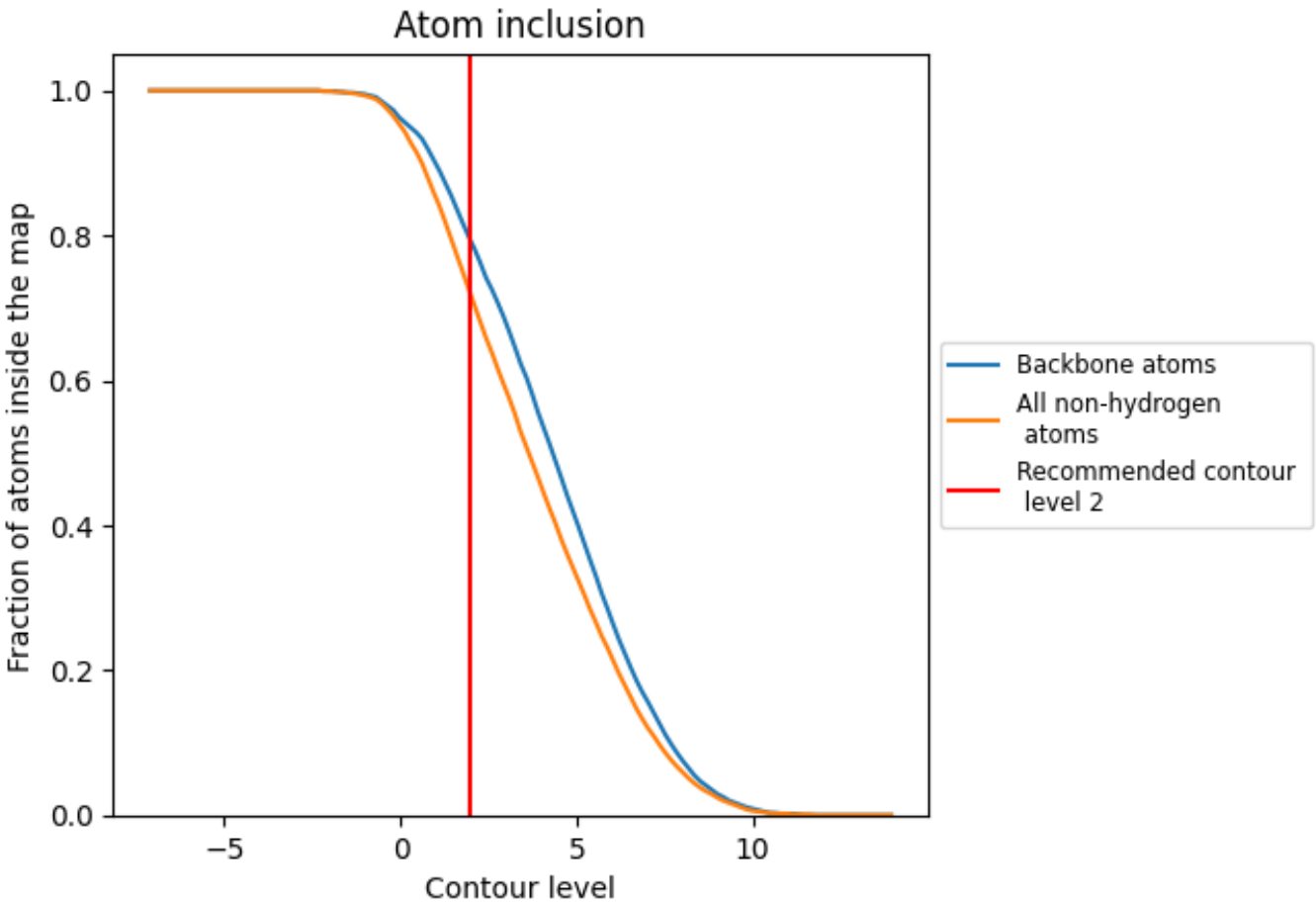
9.3 Atom inclusion mapped to coordinate model (i)



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 (2).

9.4 Atom inclusion (i)



At the recommended contour level, 79% of all backbone atoms, 72% 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 (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7180	0.3830
1	0.7210	0.3920
2	0.7210	0.3940
3	0.7150	0.3910
4	0.7160	0.3890
5	0.7210	0.3980
6	0.7210	0.3900
7	0.7210	0.3950
8	0.7160	0.3960
A	0.7100	0.3610
B	0.7210	0.3760
C	0.7160	0.3830
D	0.7200	0.3790
E	0.7170	0.3700
F	0.7150	0.3660
G	0.7170	0.3700
H	0.7210	0.3780
I	0.7160	0.3730
J	0.7210	0.3820
K	0.7160	0.3900
L	0.7210	0.3840
M	0.7170	0.3870
N	0.7210	0.3870
O	0.7160	0.3870
P	0.7210	0.3800
Q	0.7160	0.3730
R	0.7210	0.3750
S	0.7210	0.3810
T	0.7160	0.3870
U	0.7210	0.3830
V	0.7160	0.3790
W	0.7200	0.3760
X	0.7170	0.3820
Y	0.7210	0.3820
Z	0.7160	0.3850

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Chain	Atom inclusion	Q-score
a	0.7150	0.3870
b	0.7150	0.3890
c	0.7150	0.3900
d	0.7150	0.3870
e	0.7150	0.3850
f	0.7150	0.3870
g	0.7160	0.3860
h	0.7170	0.3860
i	0.7200	0.3850
j	0.7210	0.3800
k	0.7210	0.3810
l	0.7150	0.3850
m	0.7160	0.3890
n	0.7150	0.3860
o	0.7170	0.3920
p	0.7160	0.3870
q	0.7210	0.3780
r	0.7210	0.3820
s	0.7210	0.3860
t	0.7160	0.3870
u	0.7150	0.3950
v	0.7150	0.3850
w	0.7170	0.3760
x	0.7160	0.3740
y	0.7150	0.3750
z	0.7210	0.3890