



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 11:18 PM UTC

PDB ID : 5US7 / pdb_00005us7
EMDB ID : EMD-8604
Title : Human bocavirus 3
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2017-02-13
Resolution : 2.80 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

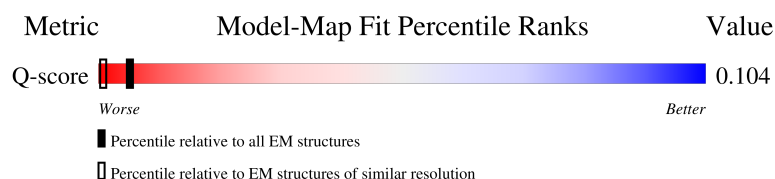
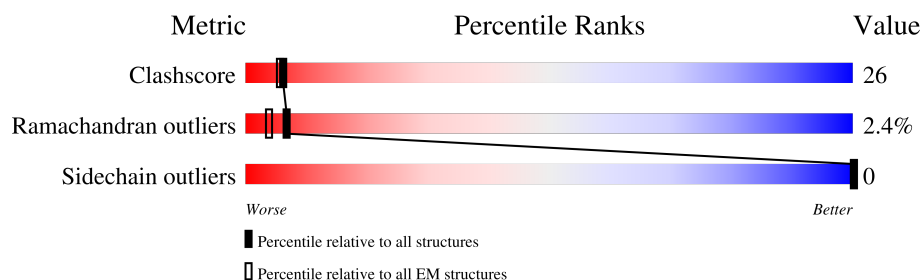
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.80 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	11806 (2.30 - 3.30)

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

Mol	Chain	Length	Quality of chain
1	1	539	37% 48% 43% 6%
1	2	539	43% 49% 43% 6%
1	3	539	41% 49% 43% 6%
1	4	539	28% 48% 44% 6%

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Mol	Chain	Length	Quality of chain
1	5	539	
1	6	539	
1	7	539	
1	8	539	
1	A	539	
1	B	539	
1	C	539	
1	D	539	
1	E	539	
1	F	539	
1	G	539	
1	H	539	
1	I	539	
1	J	539	
1	K	539	
1	L	539	
1	M	539	
1	N	539	
1	O	539	
1	P	539	
1	Q	539	
1	R	539	
1	S	539	
1	T	539	
1	U	539	

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Mol	Chain	Length	Quality of chain
1	V	539	
1	W	539	
1	X	539	
1	Y	539	
1	Z	539	
1	a	539	
1	b	539	
1	c	539	
1	d	539	
1	e	539	
1	f	539	
1	g	539	
1	h	539	
1	i	539	
1	j	539	
1	k	539	
1	l	539	
1	m	539	
1	n	539	
1	o	539	
1	p	539	
1	q	539	
1	r	539	
1	s	539	
1	t	539	

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Mol	Chain	Length	Quality of chain
1	u	539	6% 48% 44% 6%
1	v	539	13% 48% 44% 6%
1	w	539	26% 49% 43% 6%
1	x	539	12% 48% 43% 6%
1	y	539	33% 48% 44% 6%
1	z	539	36% 48% 44% 6%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 242340 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	B	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	C	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	D	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	E	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	F	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	G	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	H	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	I	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	J	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	K	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	L	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	M	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	N	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	O	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	P	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		
1	Q	506	Total	C	N	O	S	0	0
			4039	2556	700	763	20		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	S	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	T	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	U	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	V	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	W	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	X	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	Y	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	Z	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	1	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	2	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	3	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	4	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	5	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	6	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	a	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	b	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	c	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	d	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	e	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	f	506	Total 4039	C 2556	N 700	O 763	S 20	0	0

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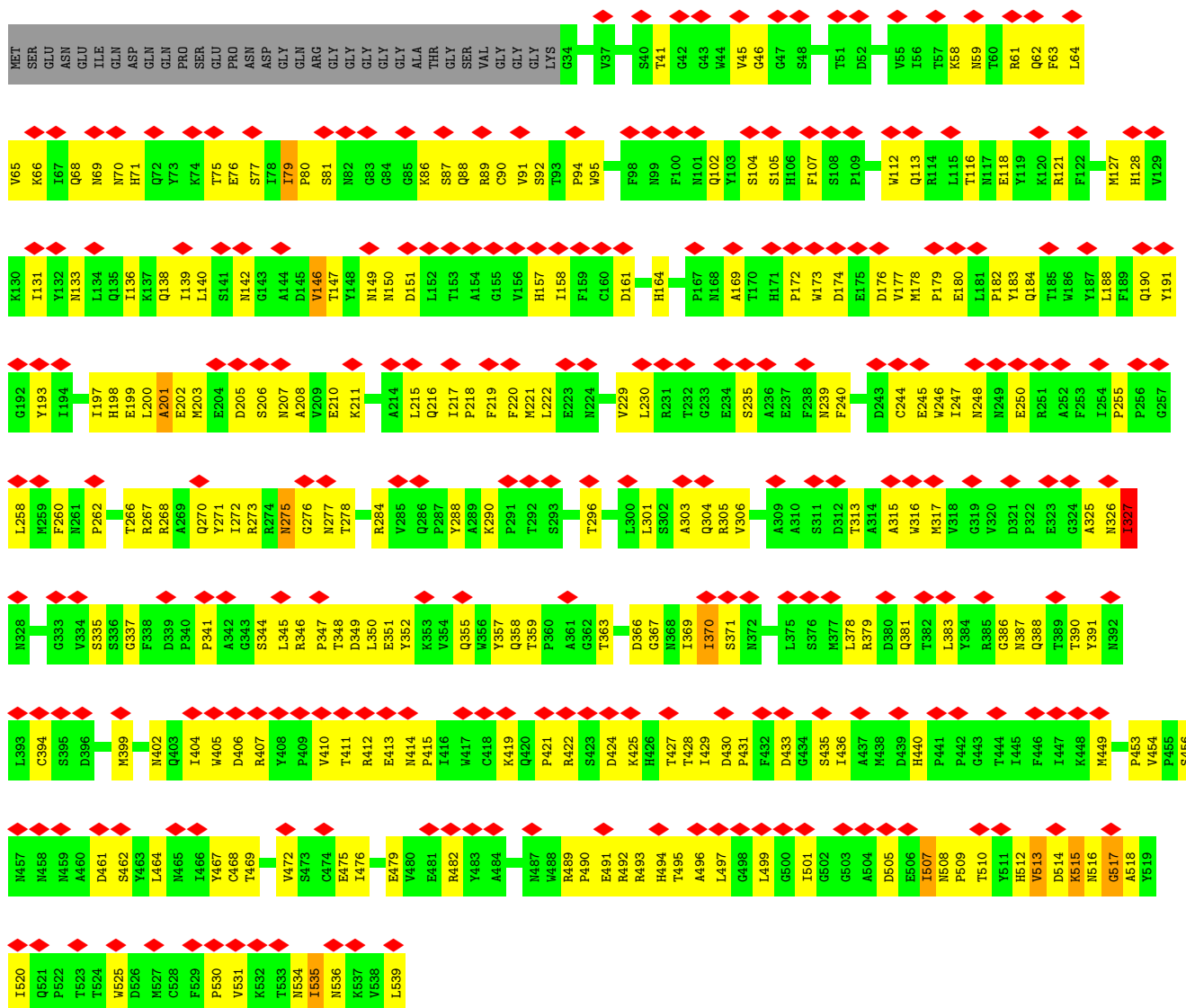
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Mol	Chain	Residues	Atoms					AltConf	Trace
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1	h	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	i	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	j	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	k	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	l	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	m	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	n	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	o	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	p	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	q	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	r	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	s	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	t	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	u	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	v	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	w	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	x	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	y	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	z	506	Total 4039	C 2556	N 700	O 763	S 20	0	0
1	7	506	Total 4039	C 2556	N 700	O 763	S 20	0	0

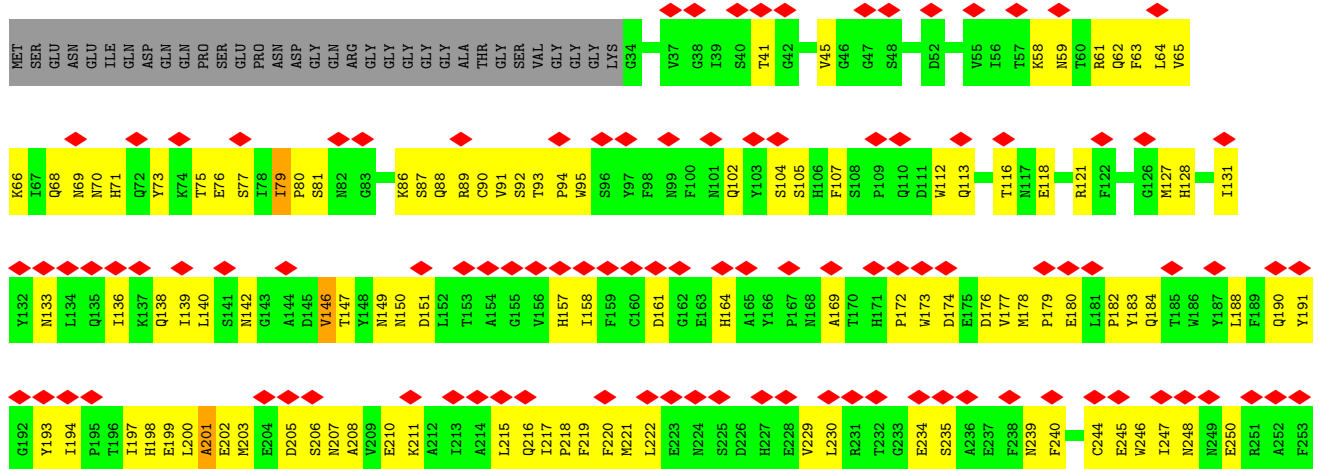
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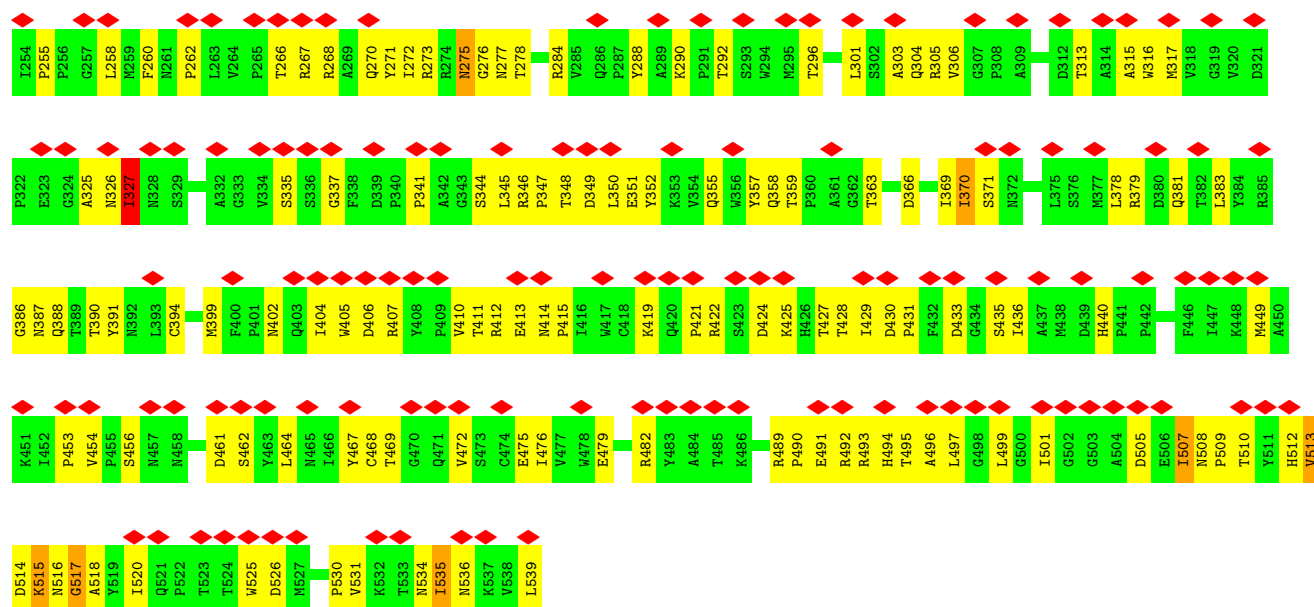
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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	8	506	4039	2556	700	763	20	0	0

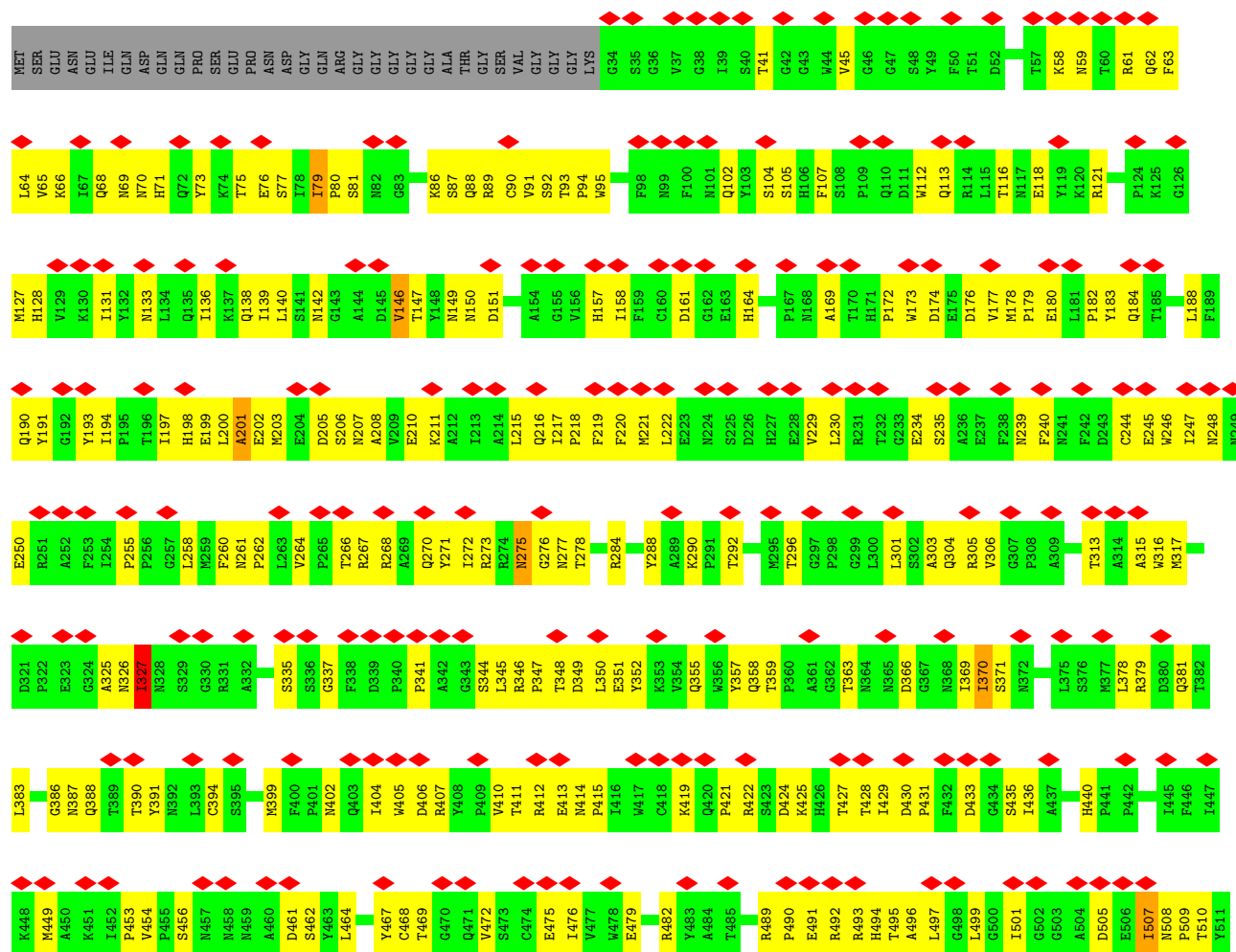


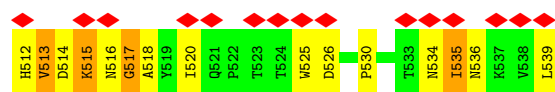
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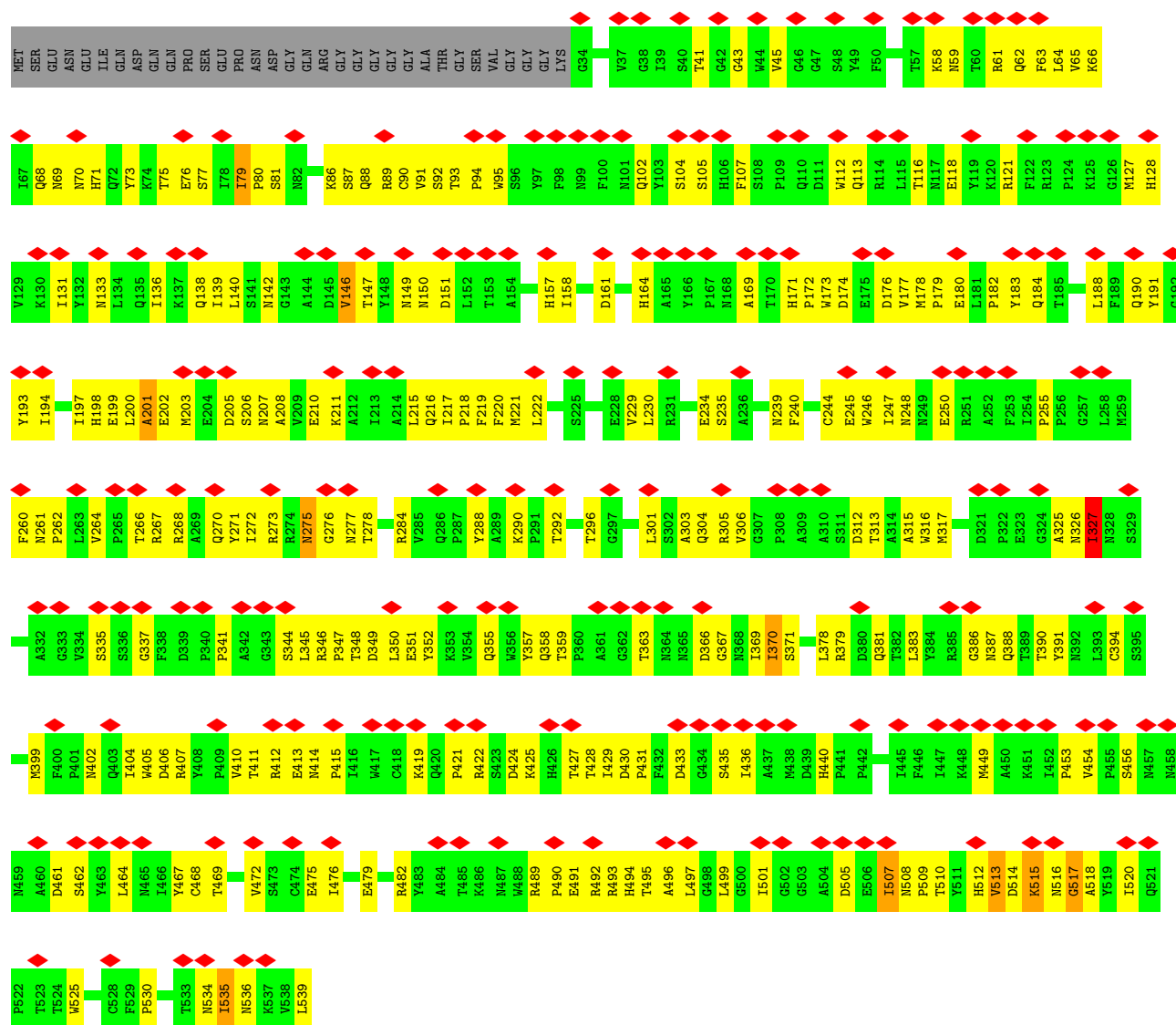
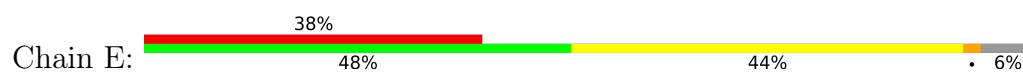


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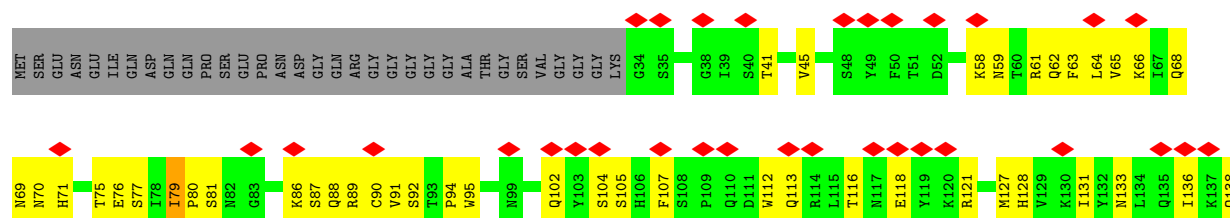


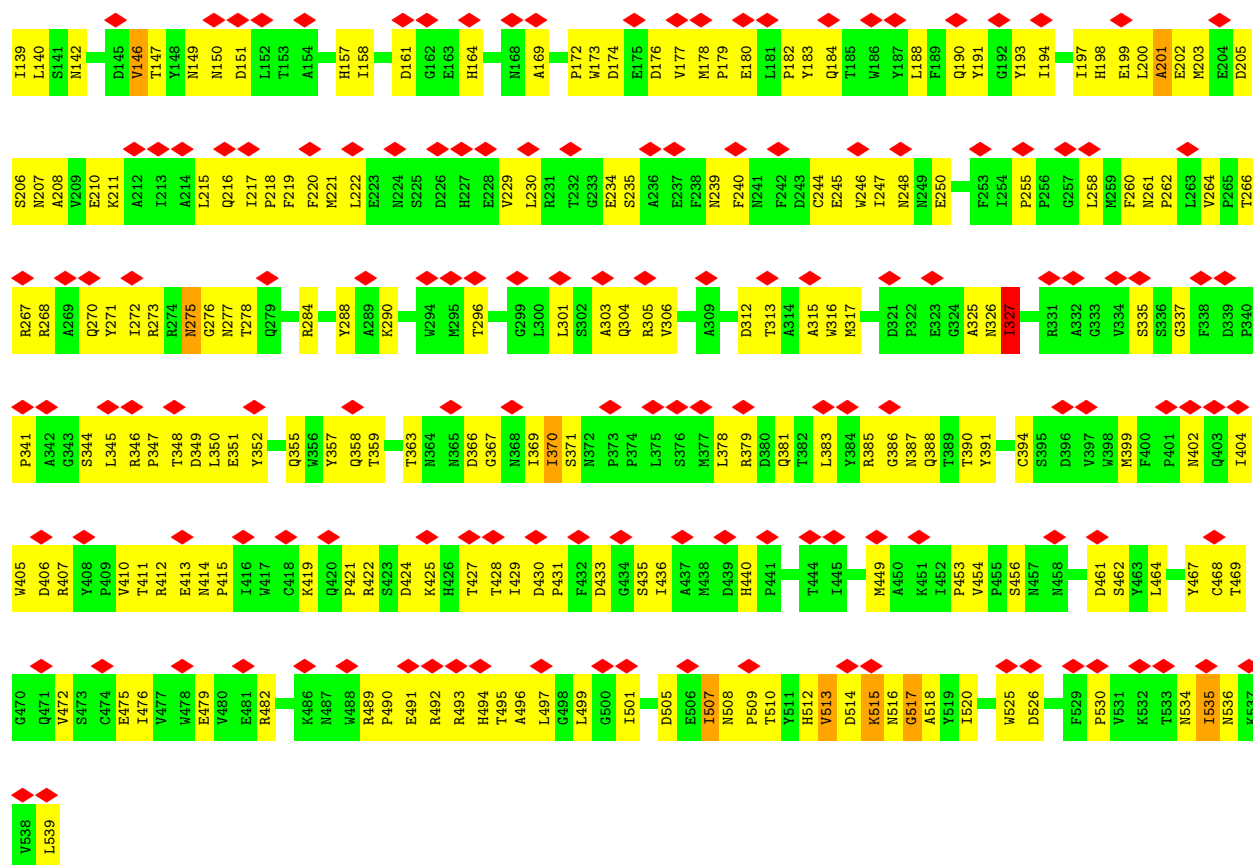


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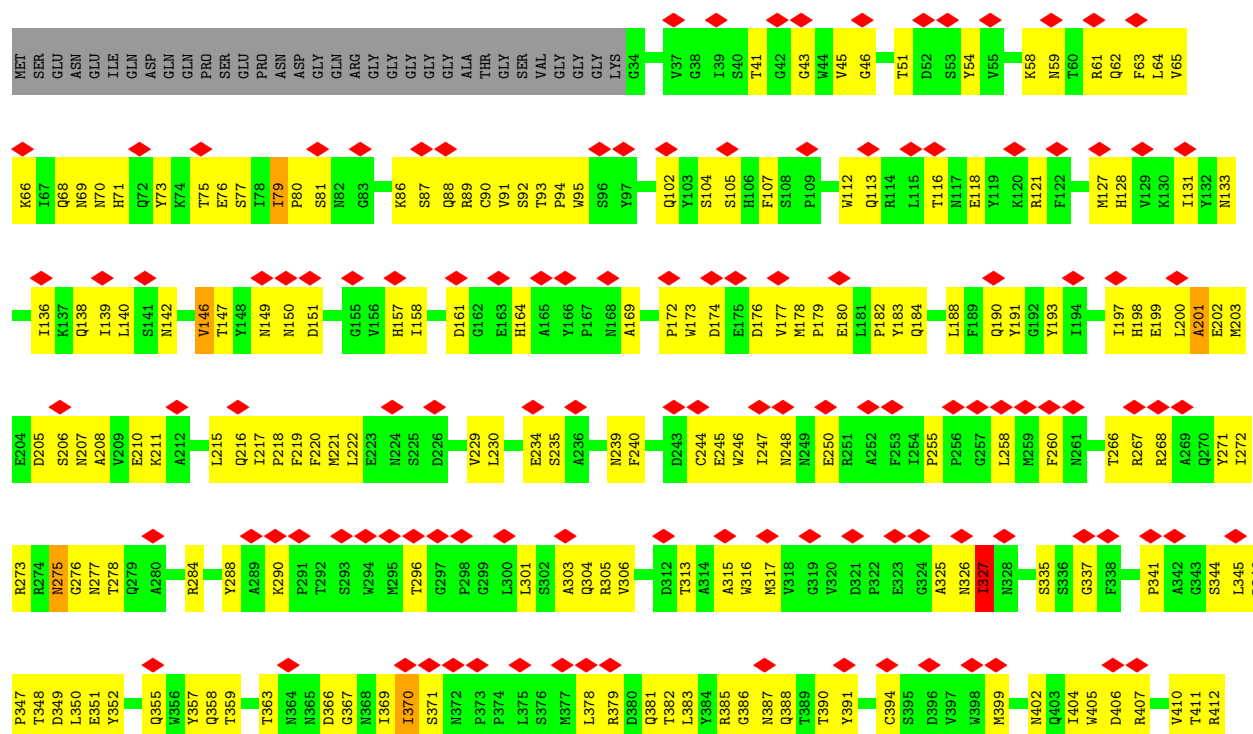


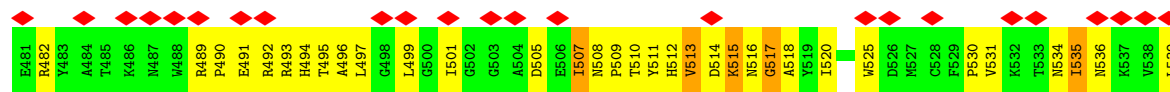
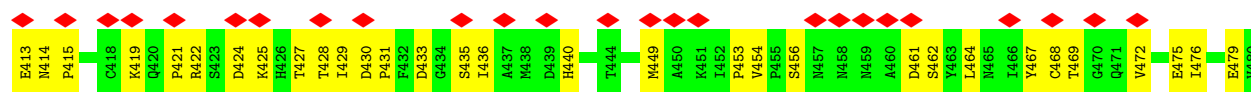
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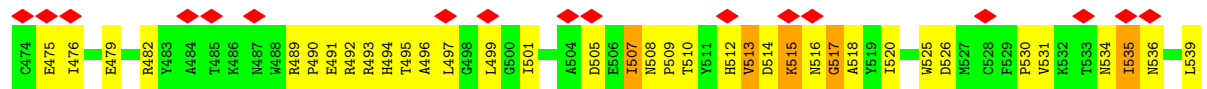
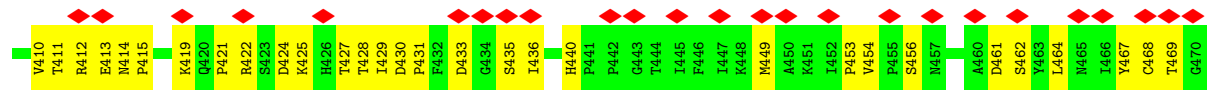
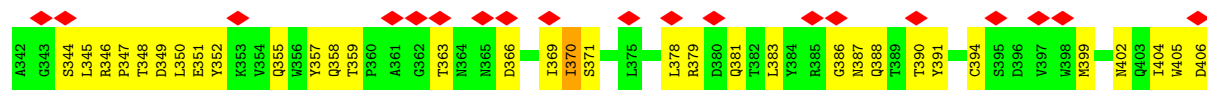
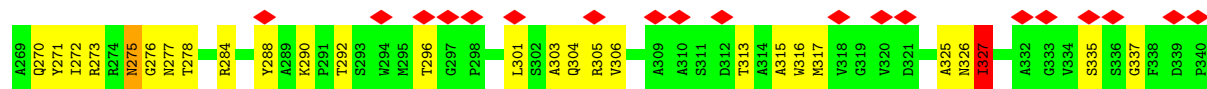
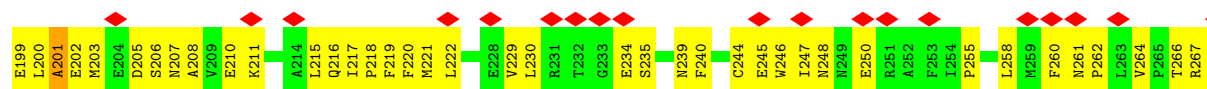
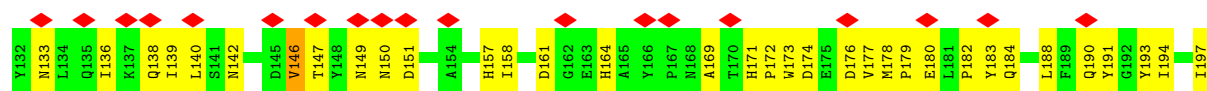
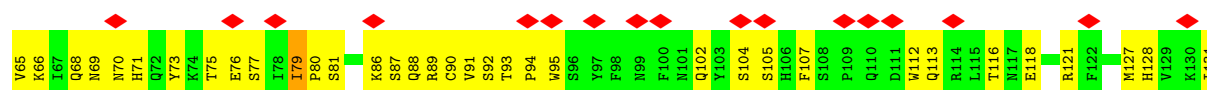
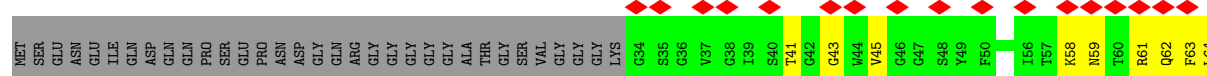


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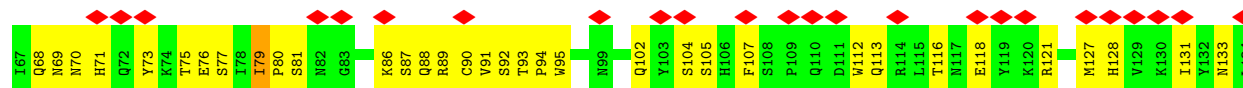
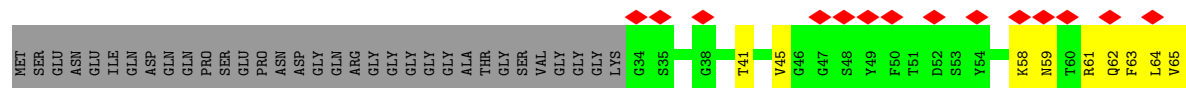


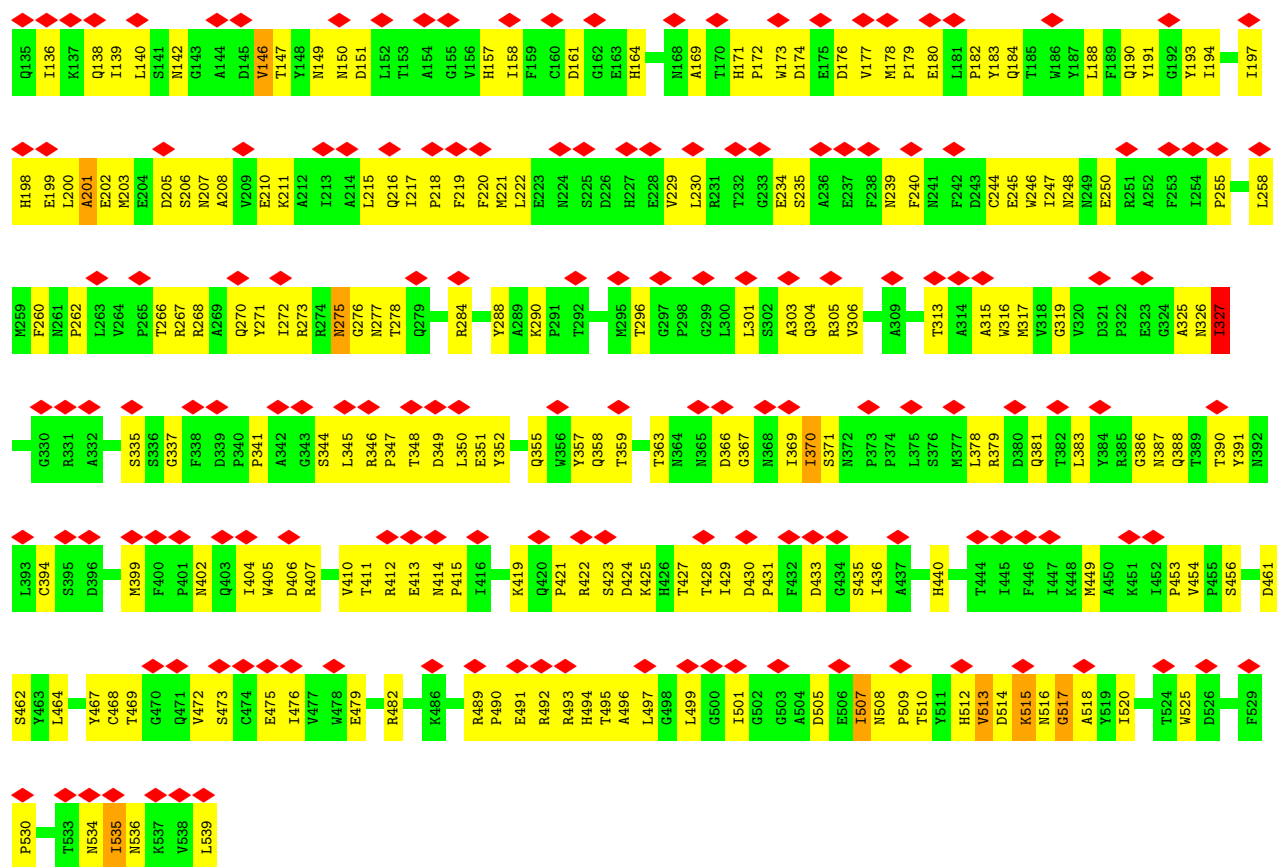


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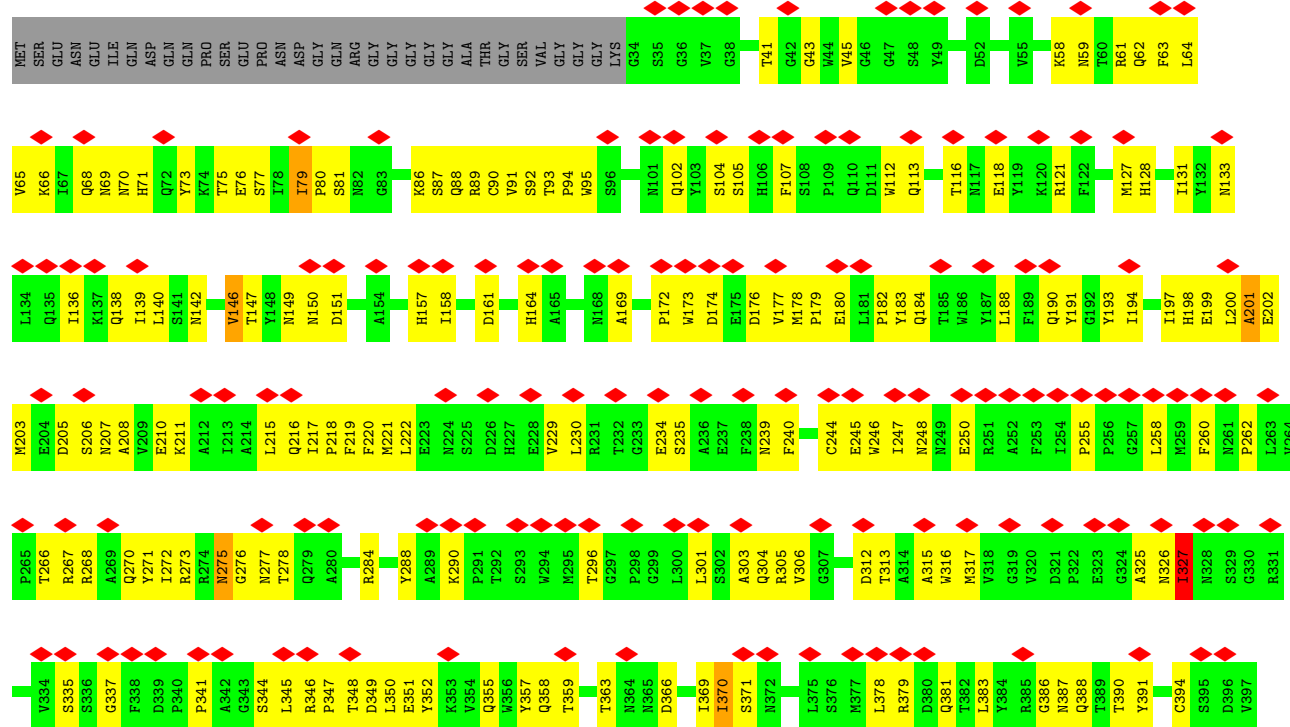
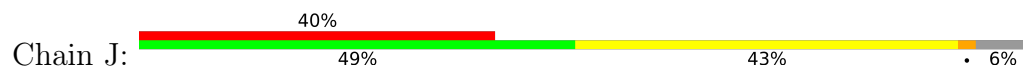


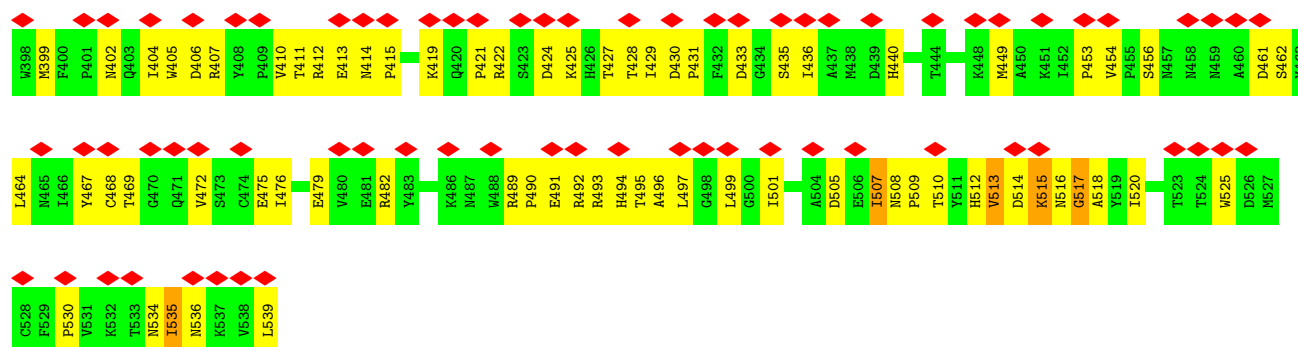
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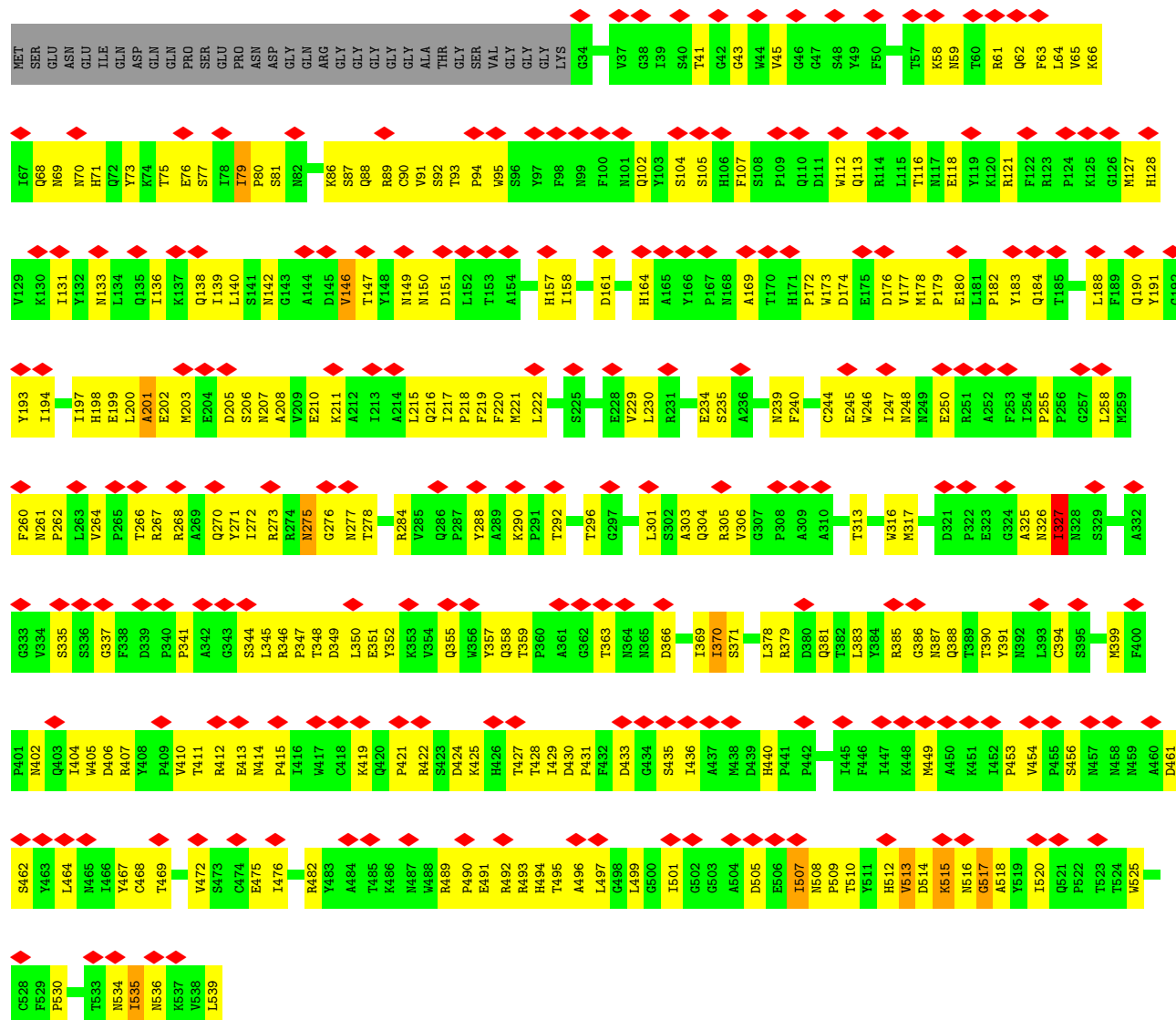
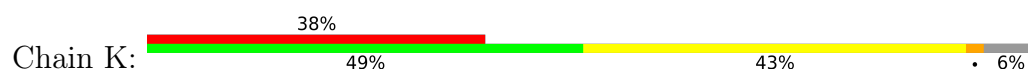


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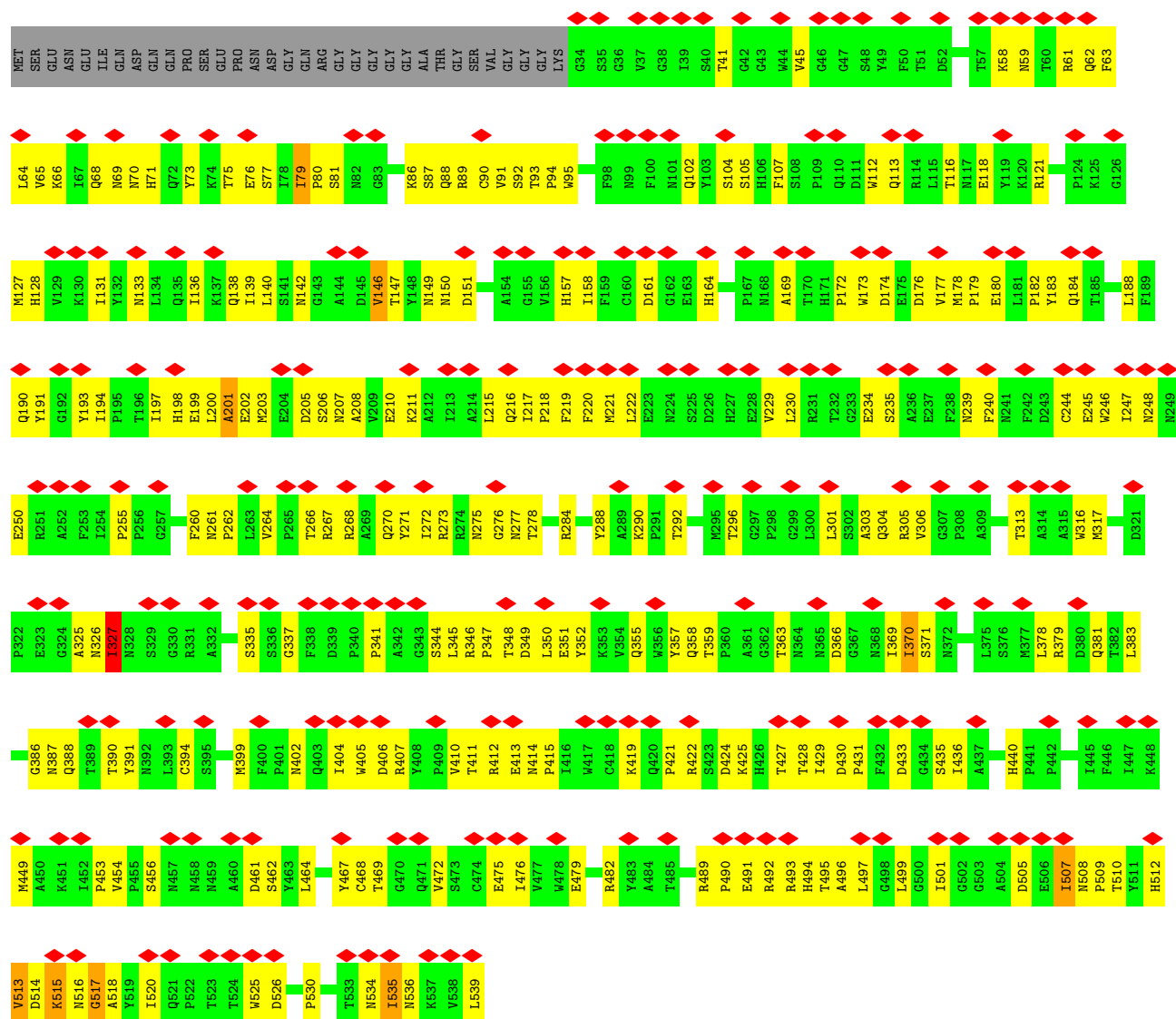


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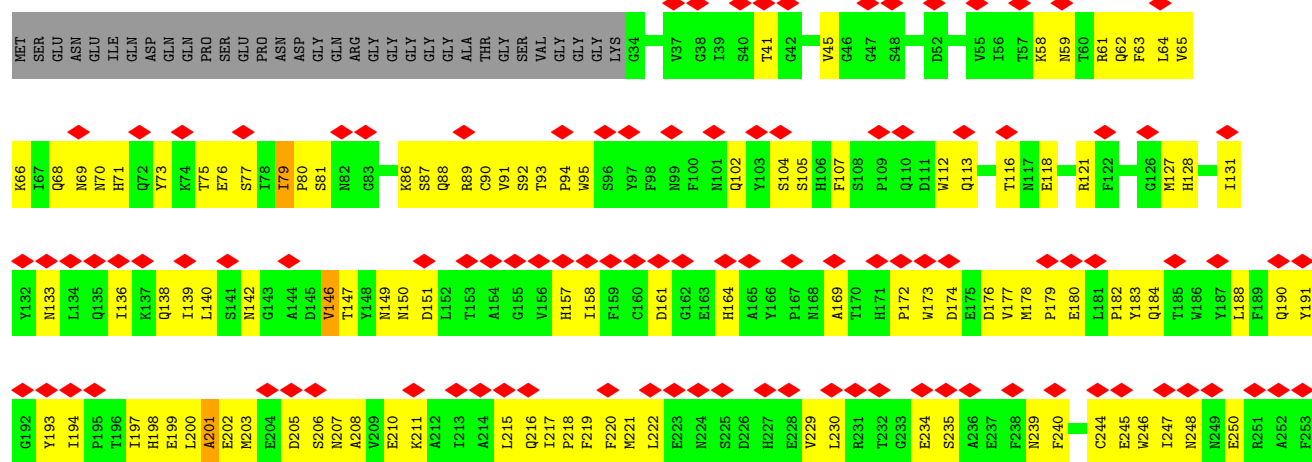


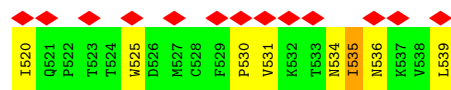
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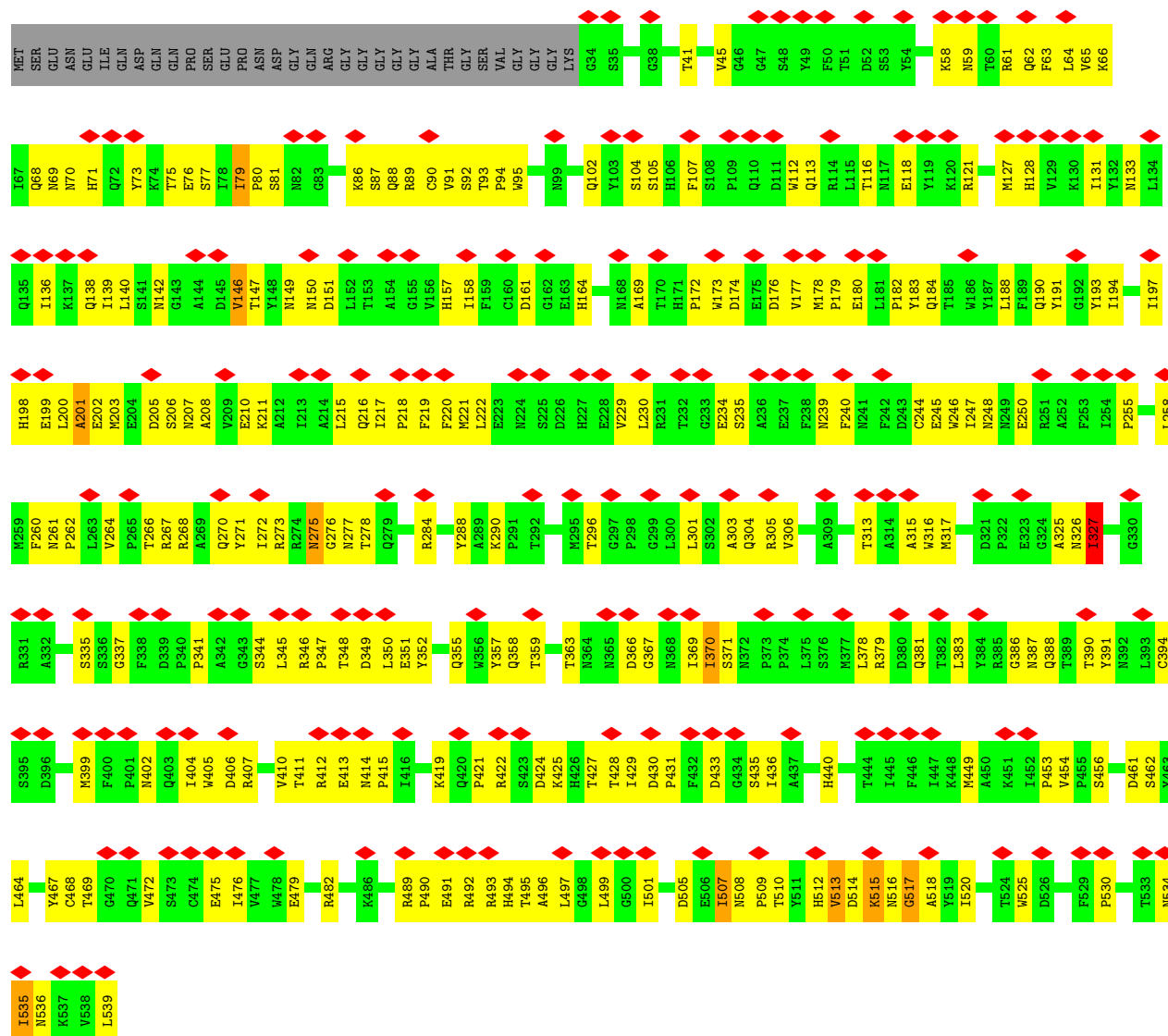


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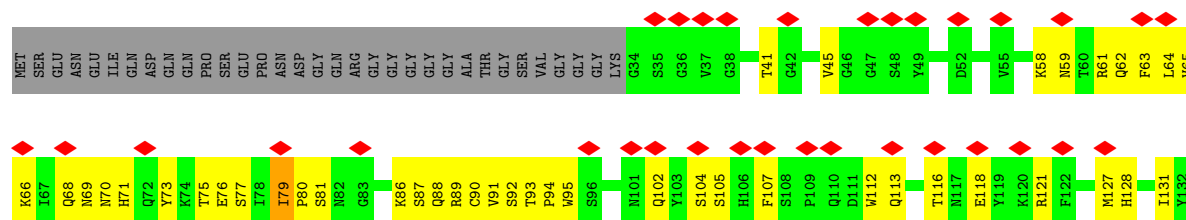


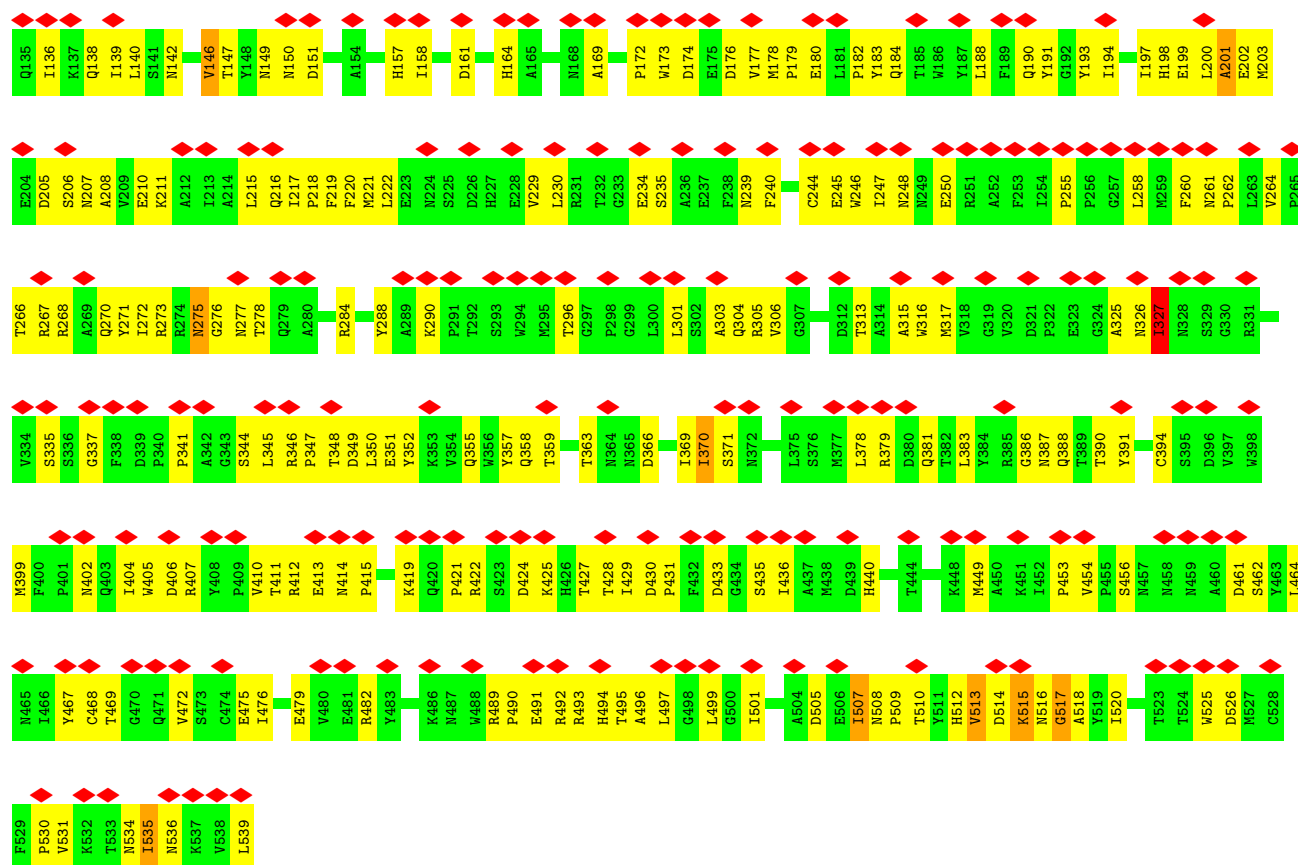


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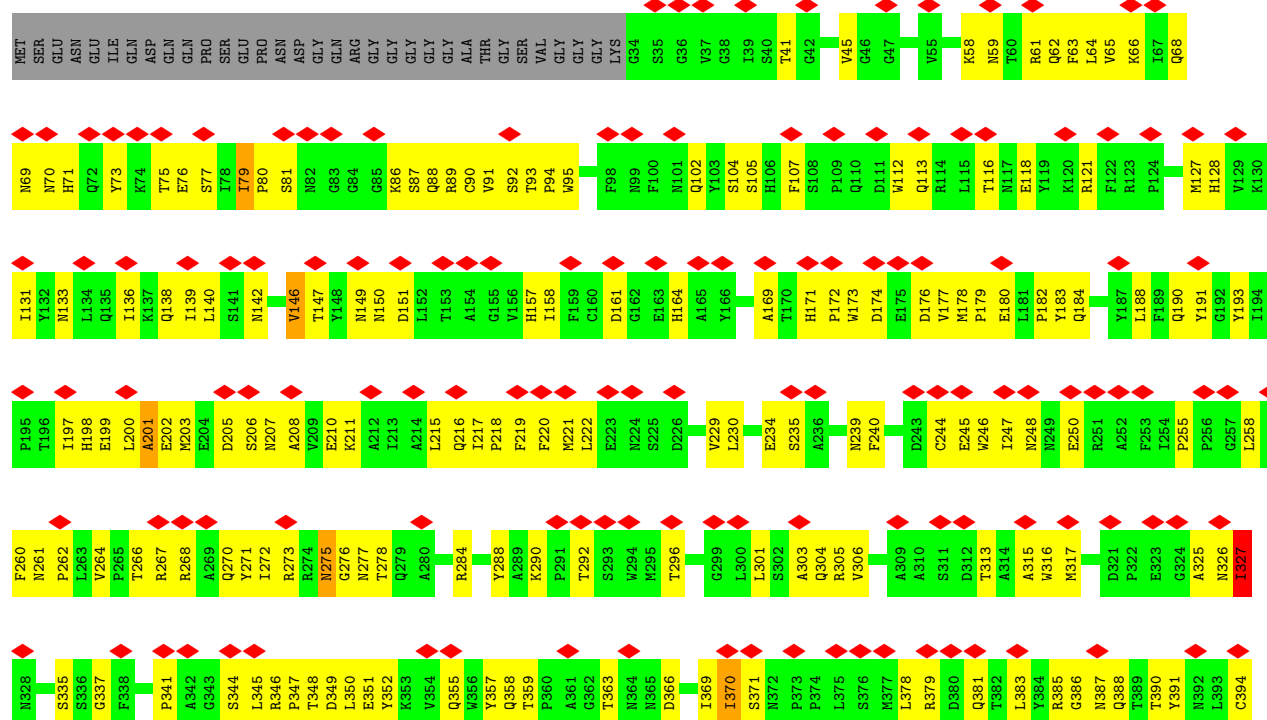


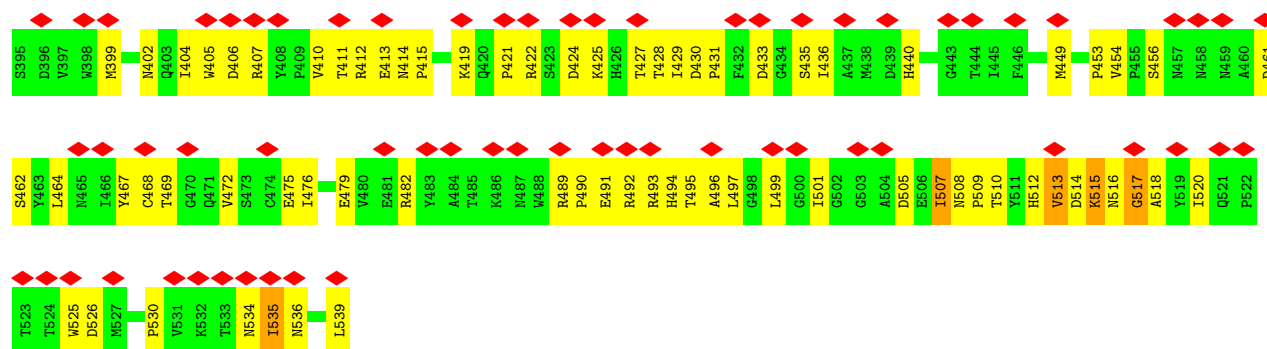
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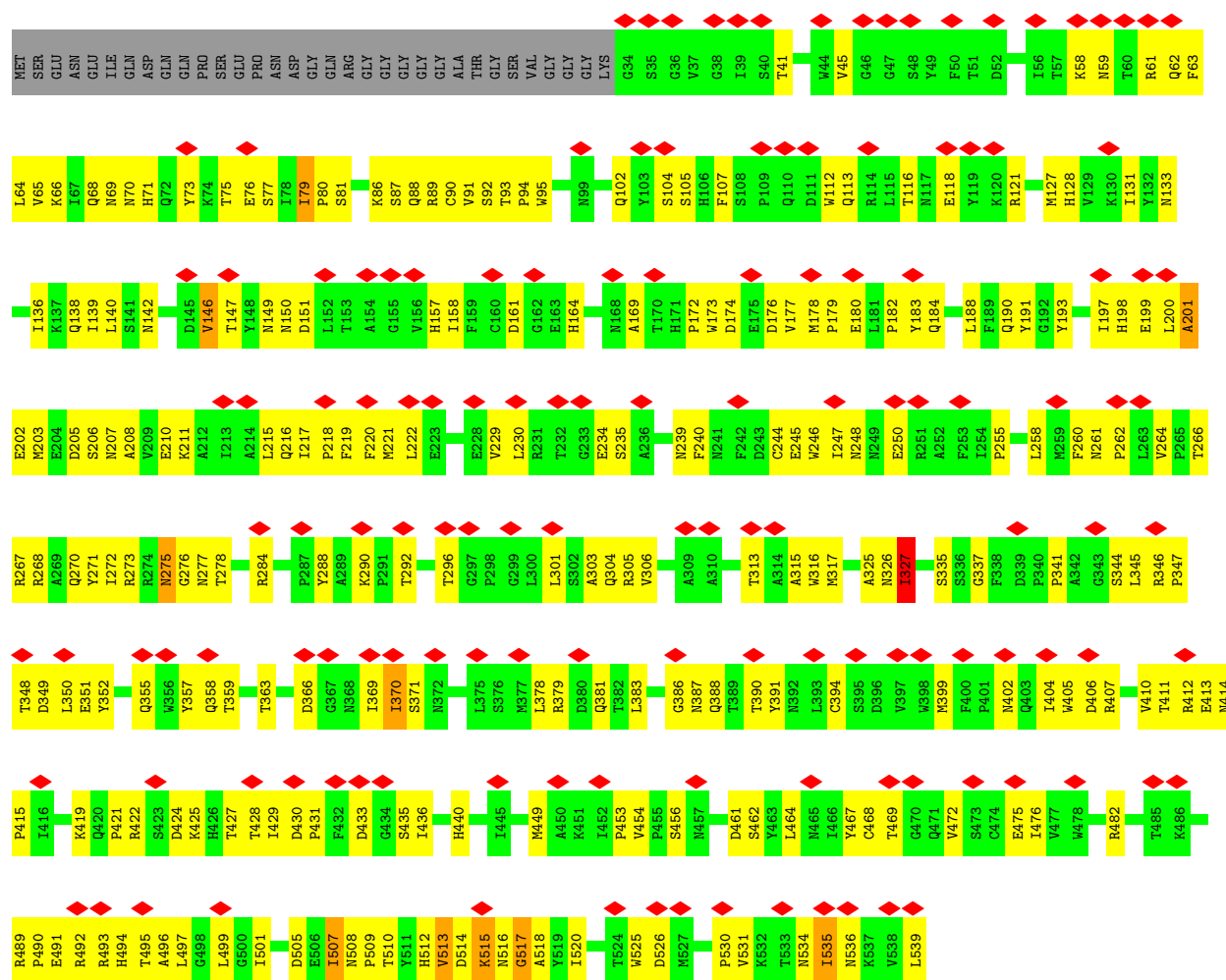


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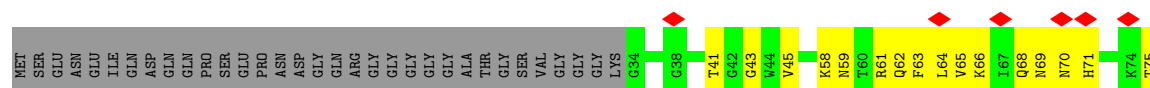


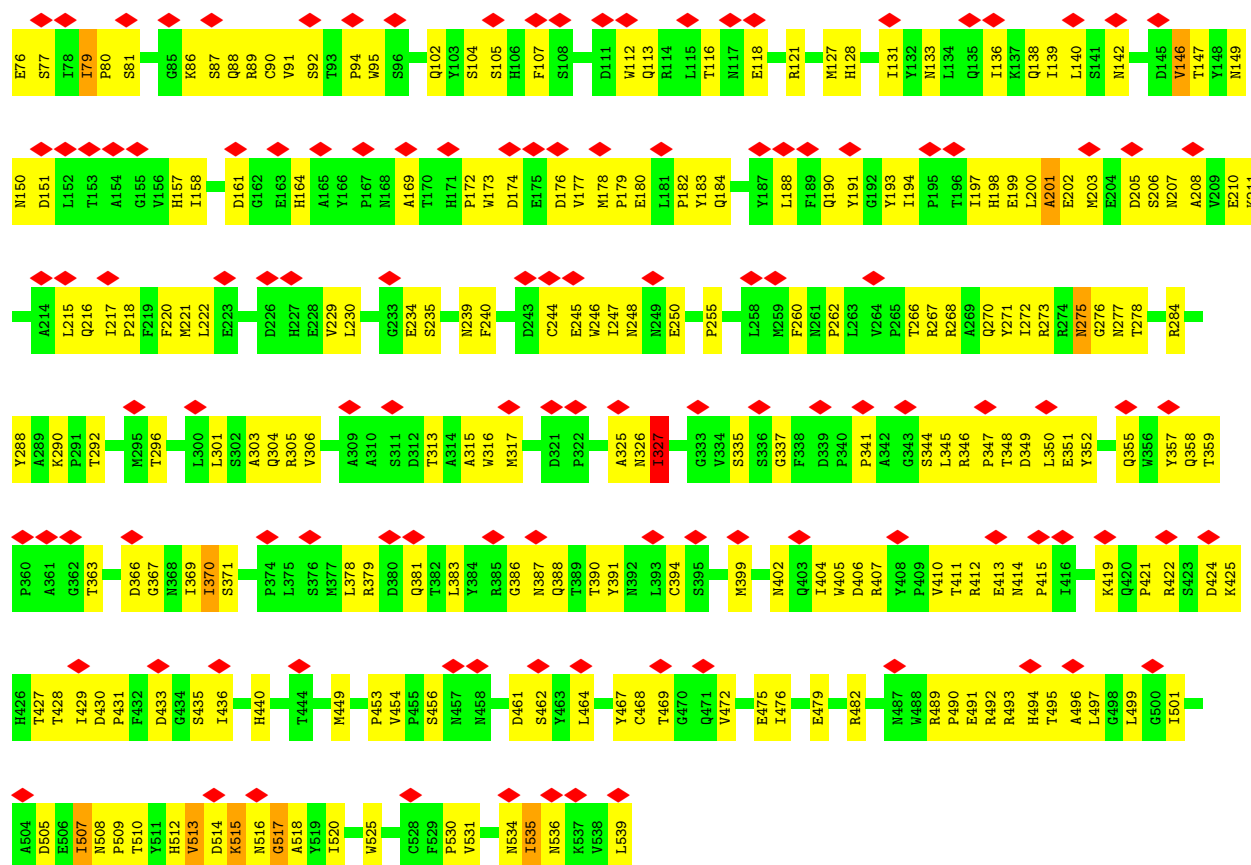


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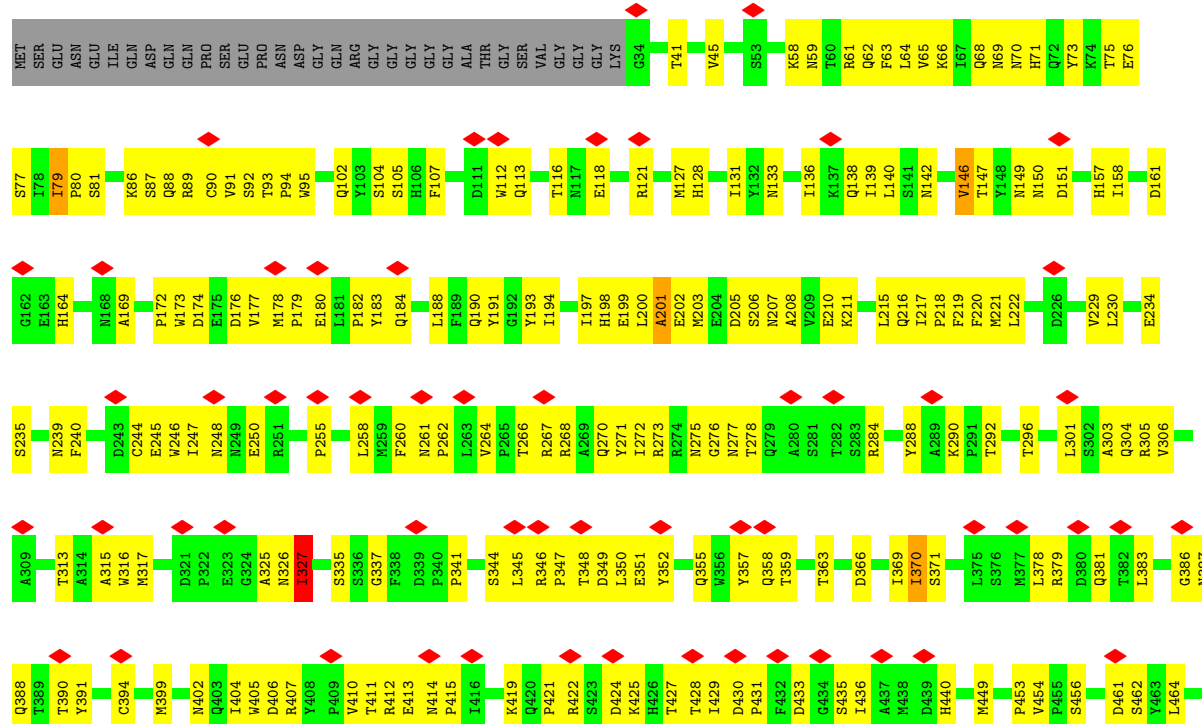


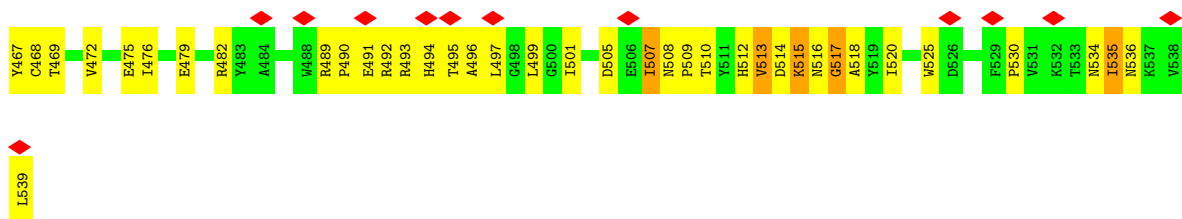
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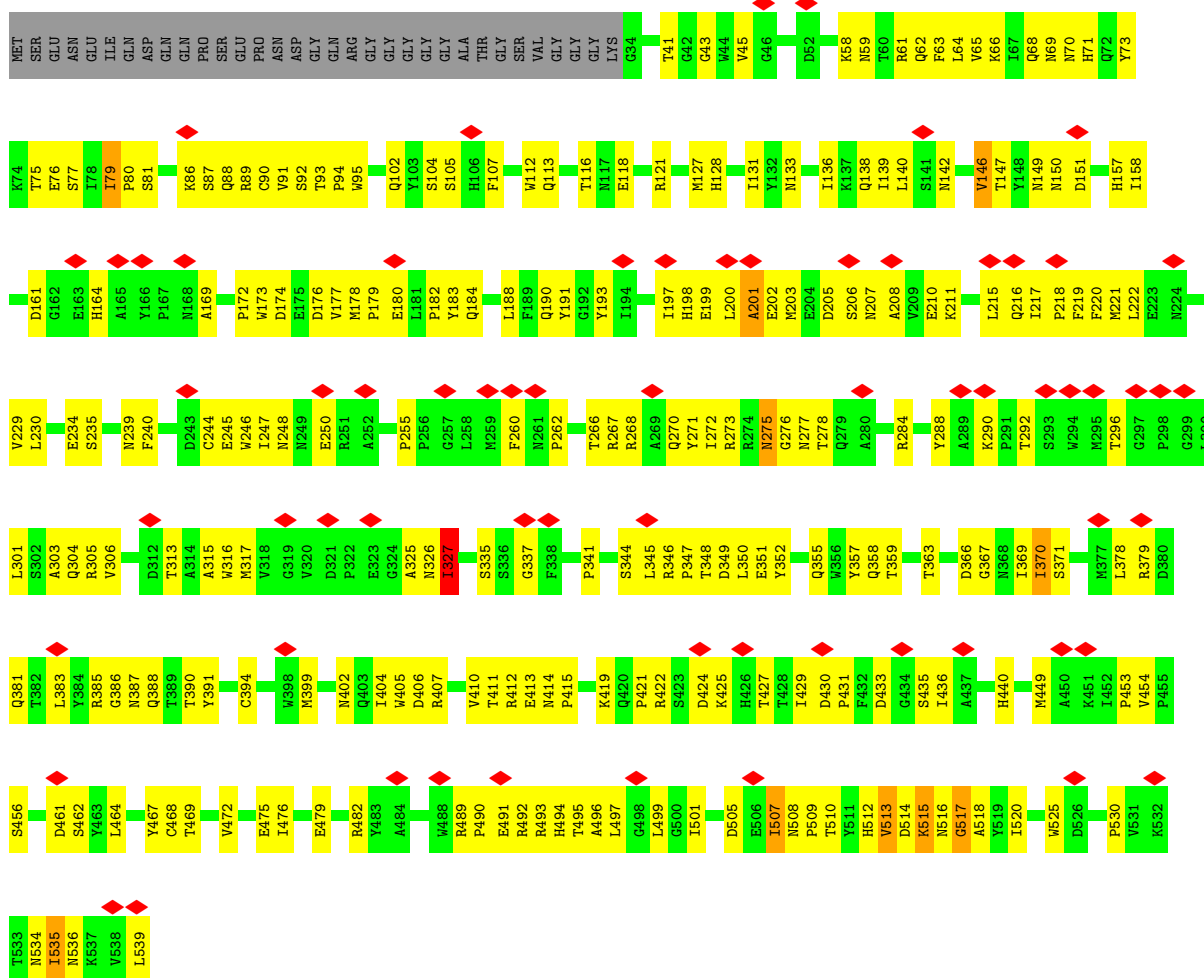


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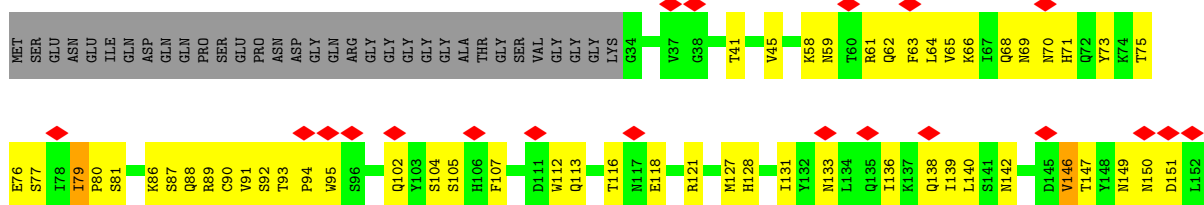


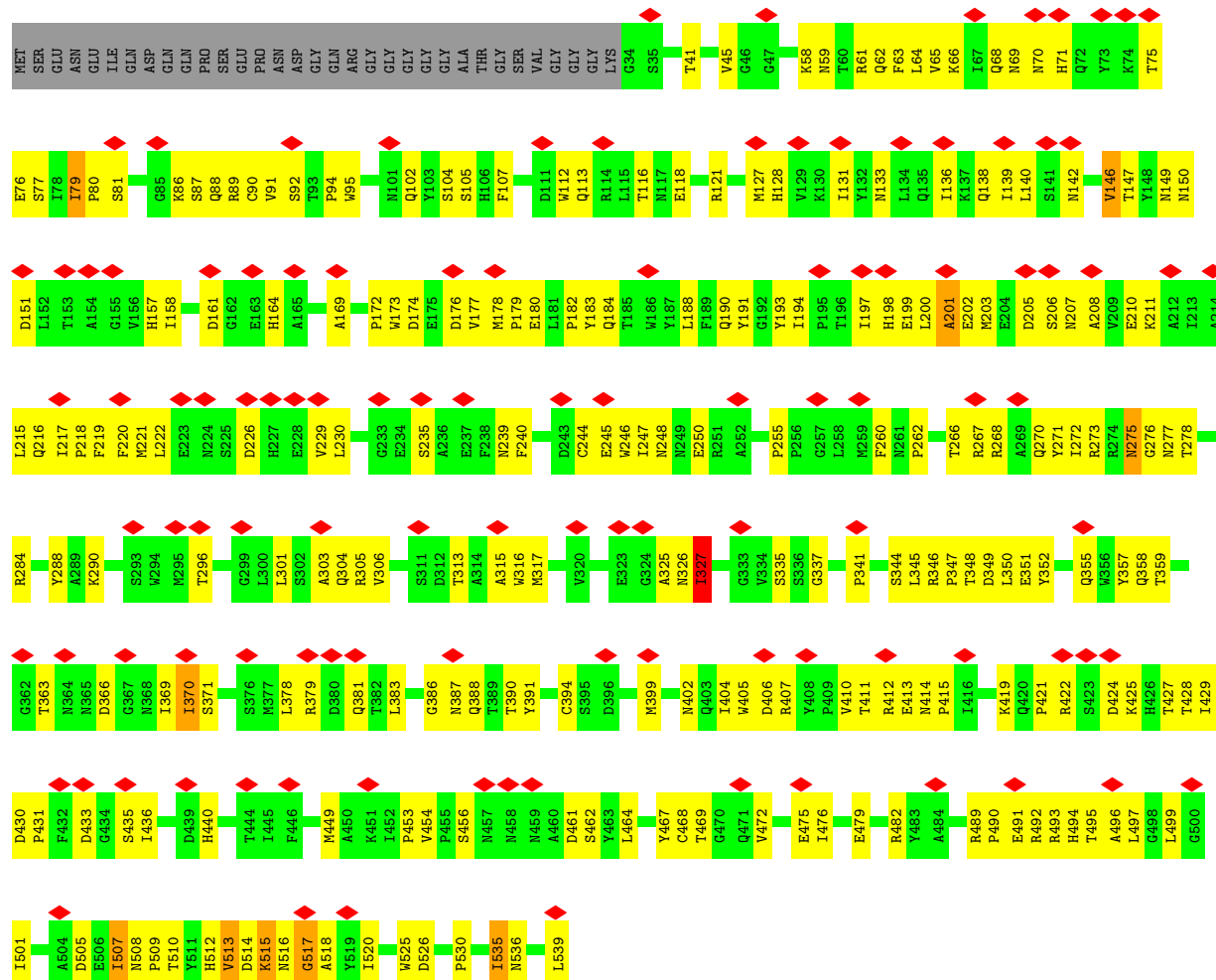


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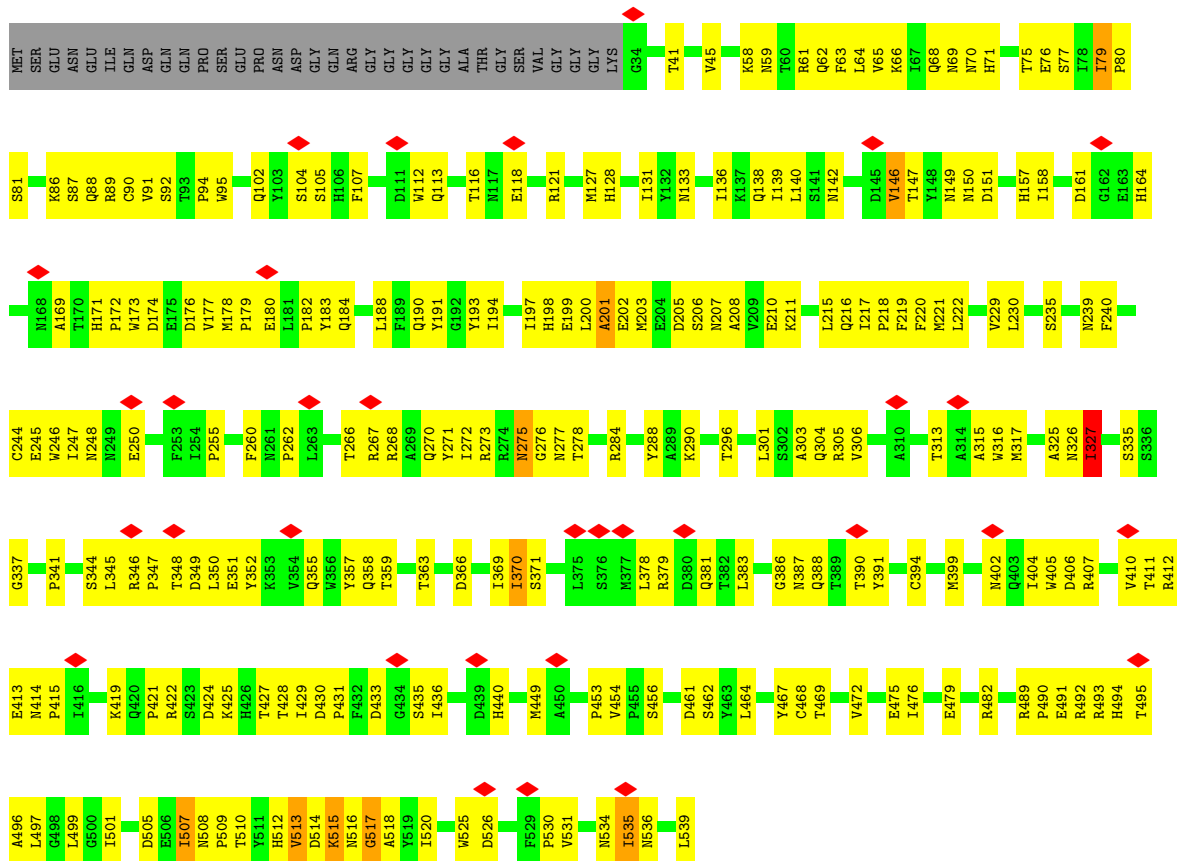


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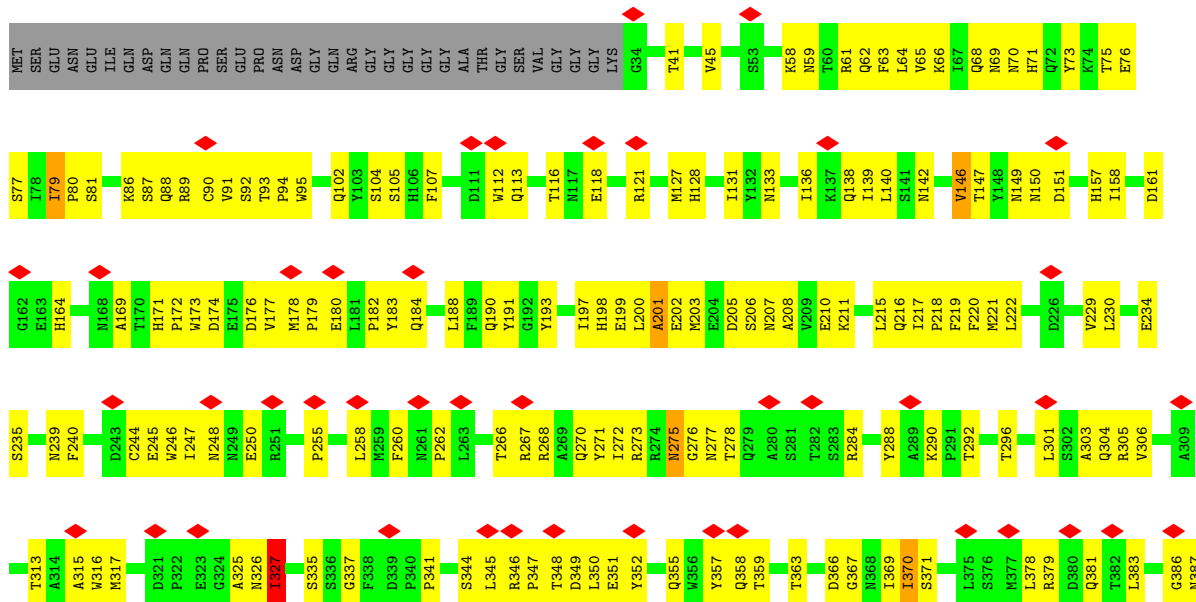


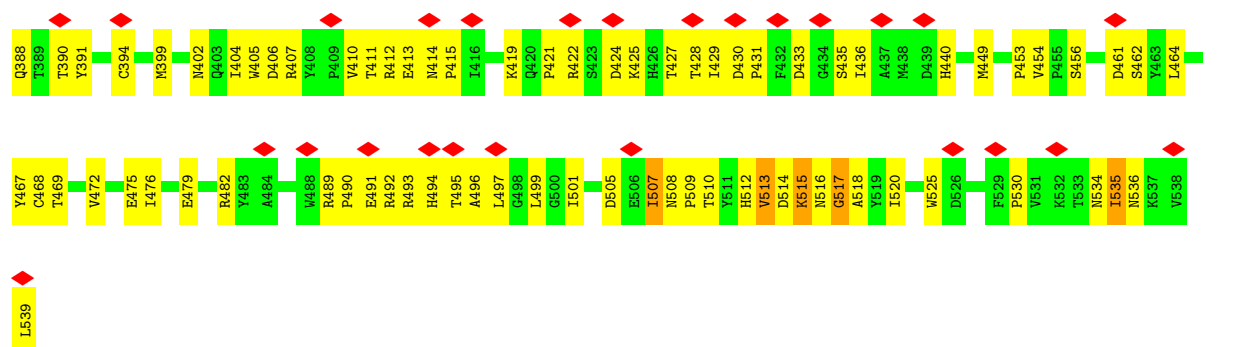


- Molecule 1: VP2



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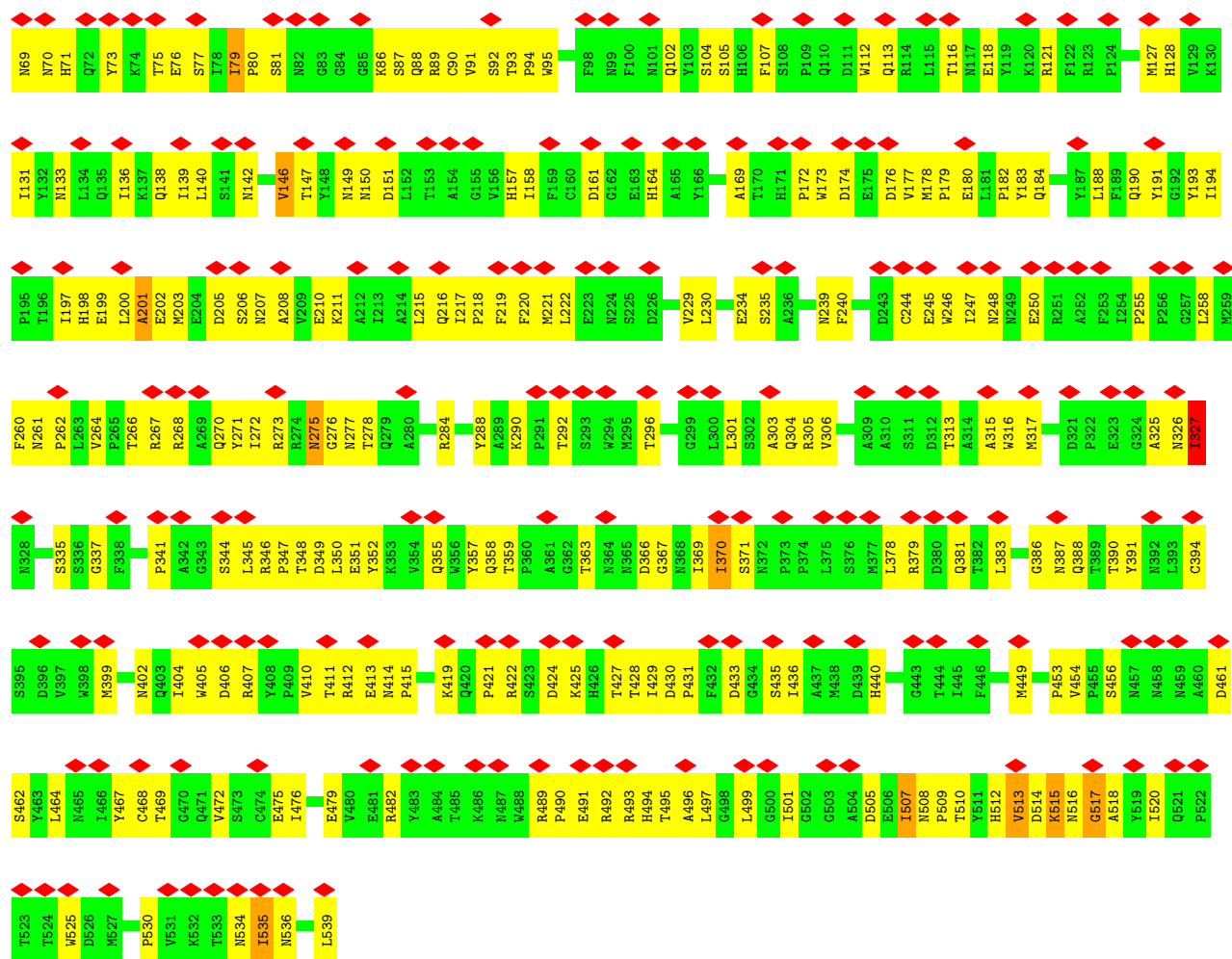


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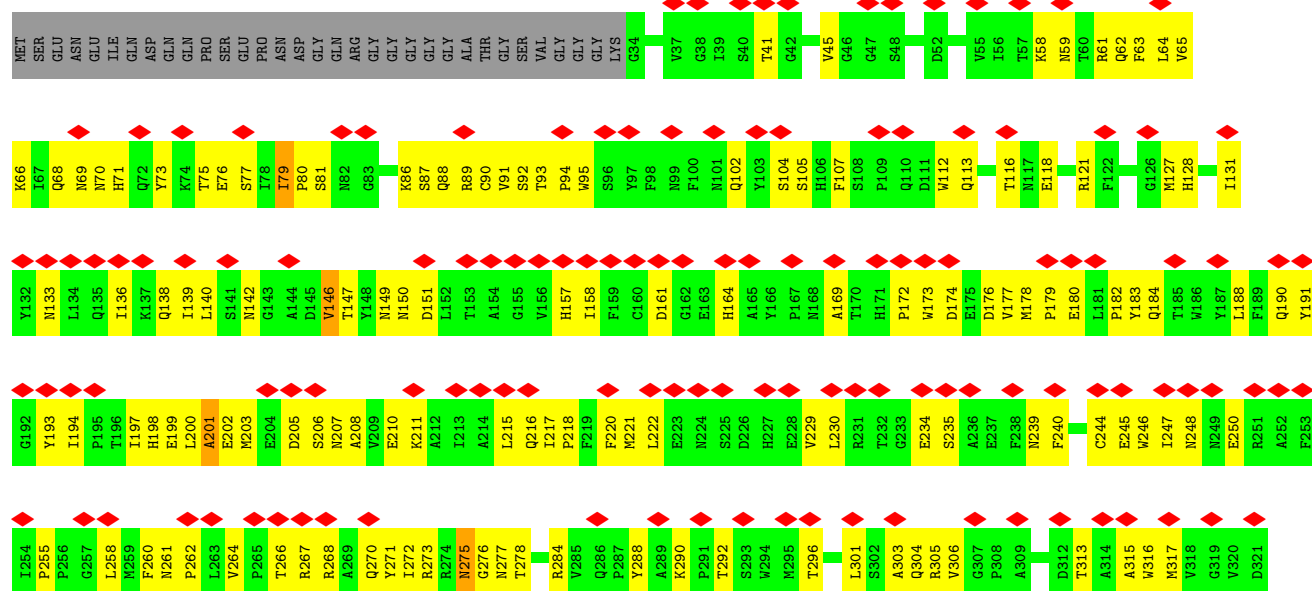
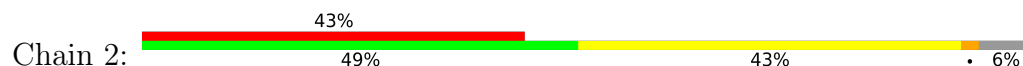


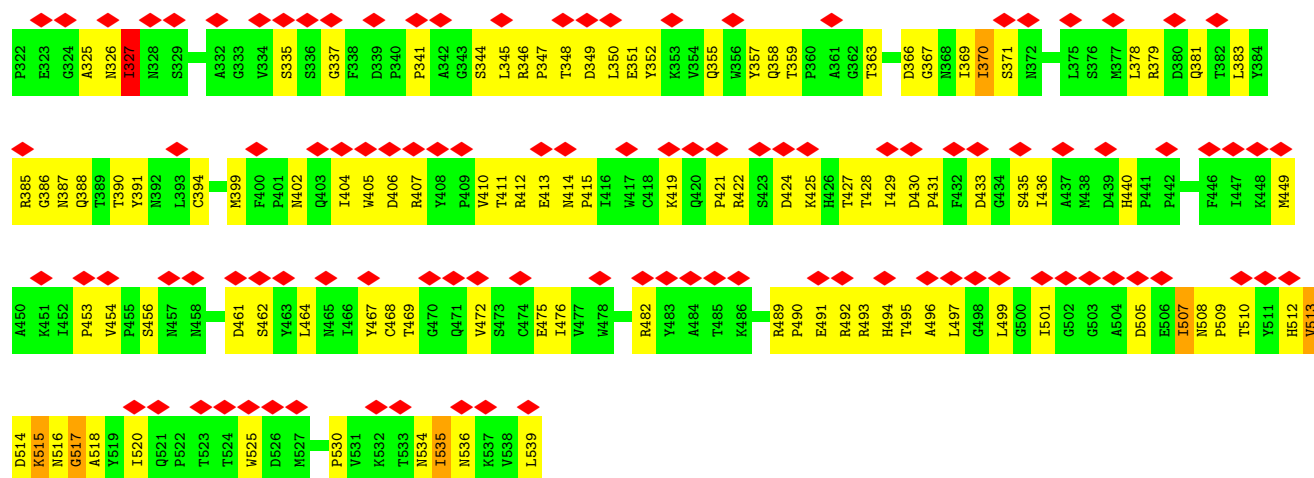
• Molecule 1: VP2



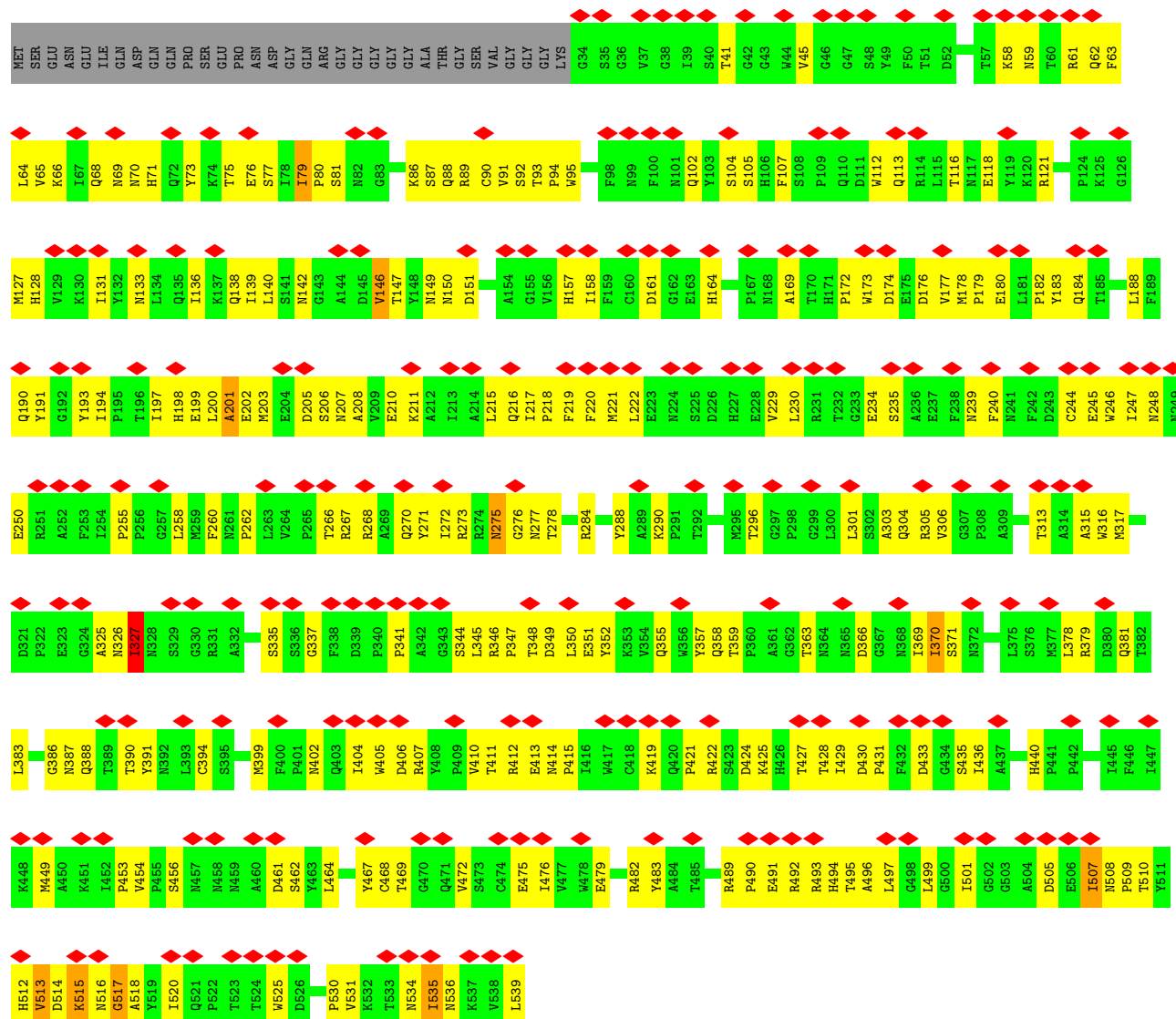


• Molecule 1: VP2





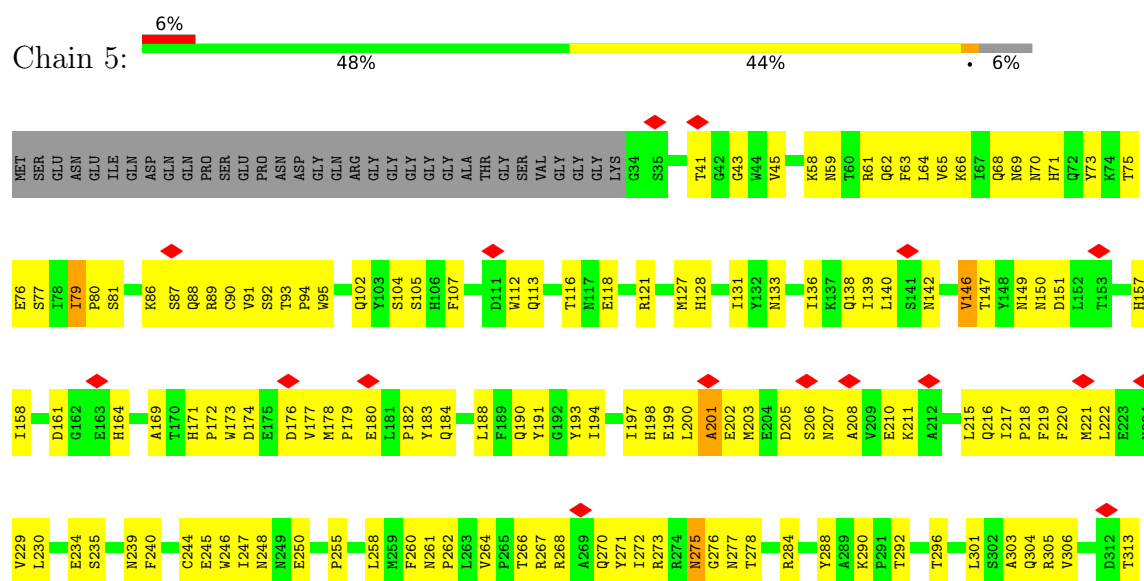
• Molecule 1: VP2

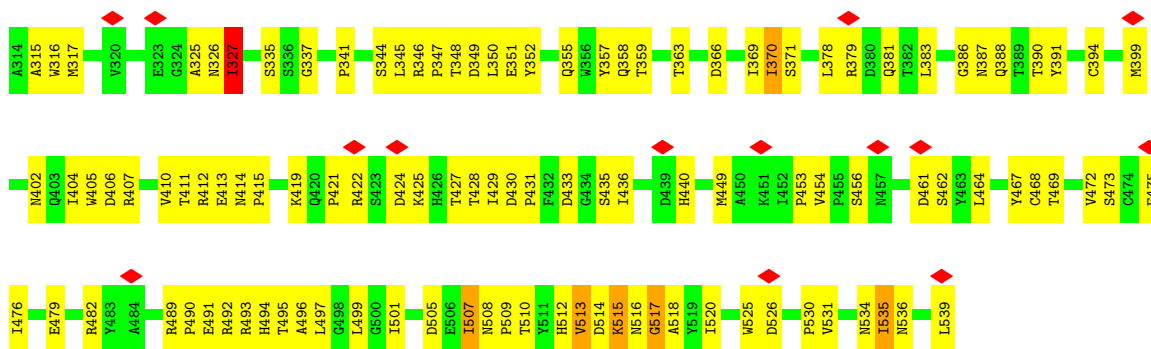


- Molecule 1: VP2



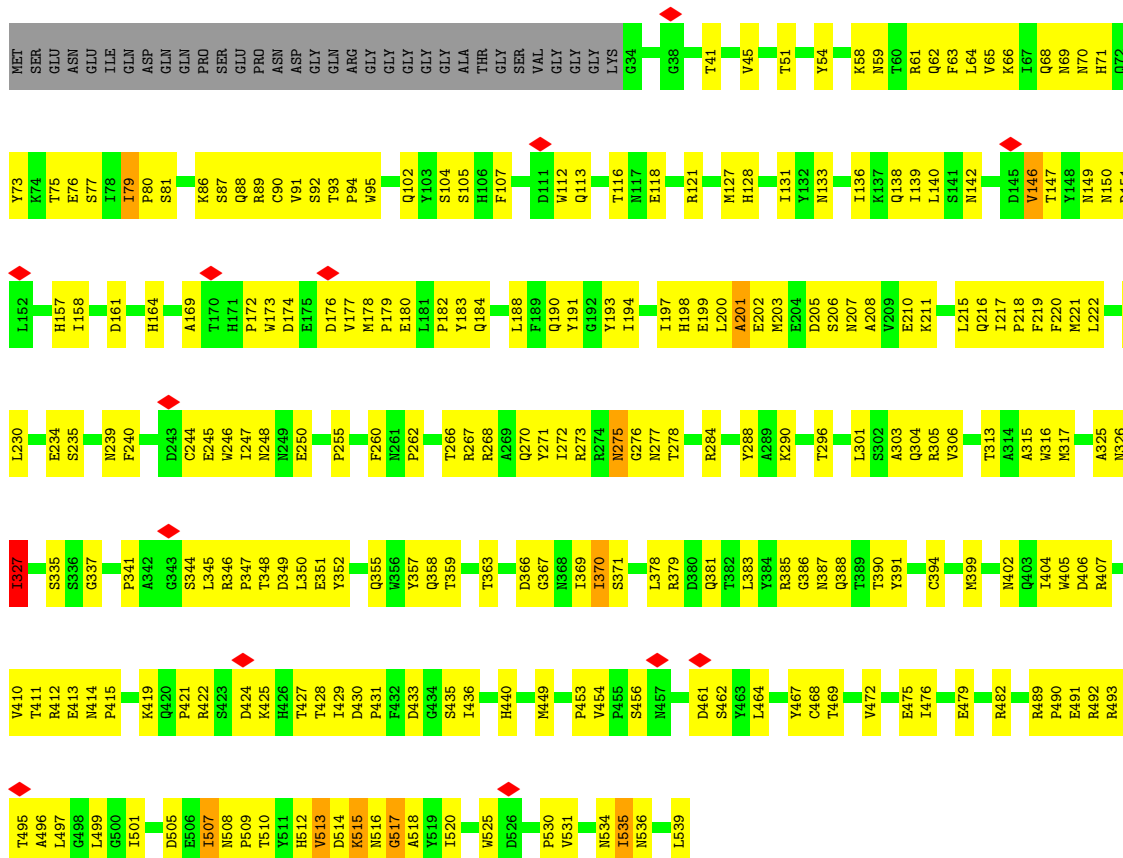
- Molecule 1: VP2





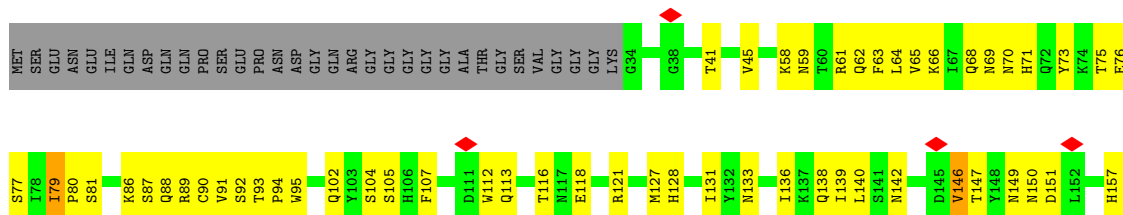
• Molecule 1: VP2

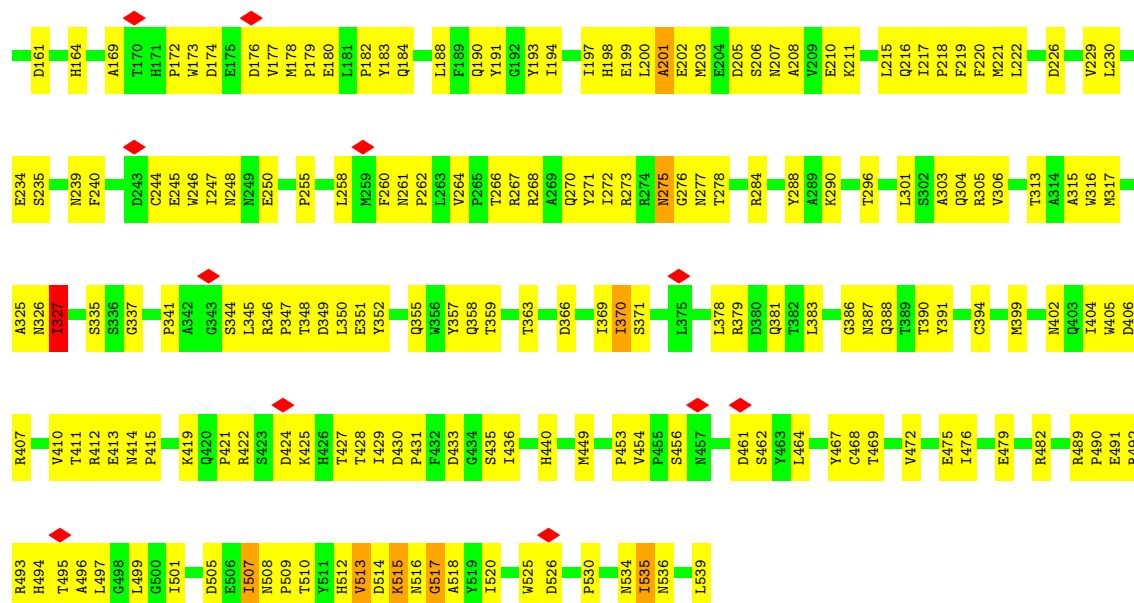
Chain 6: 48% 43% 6%



• Molecule 1: VP2

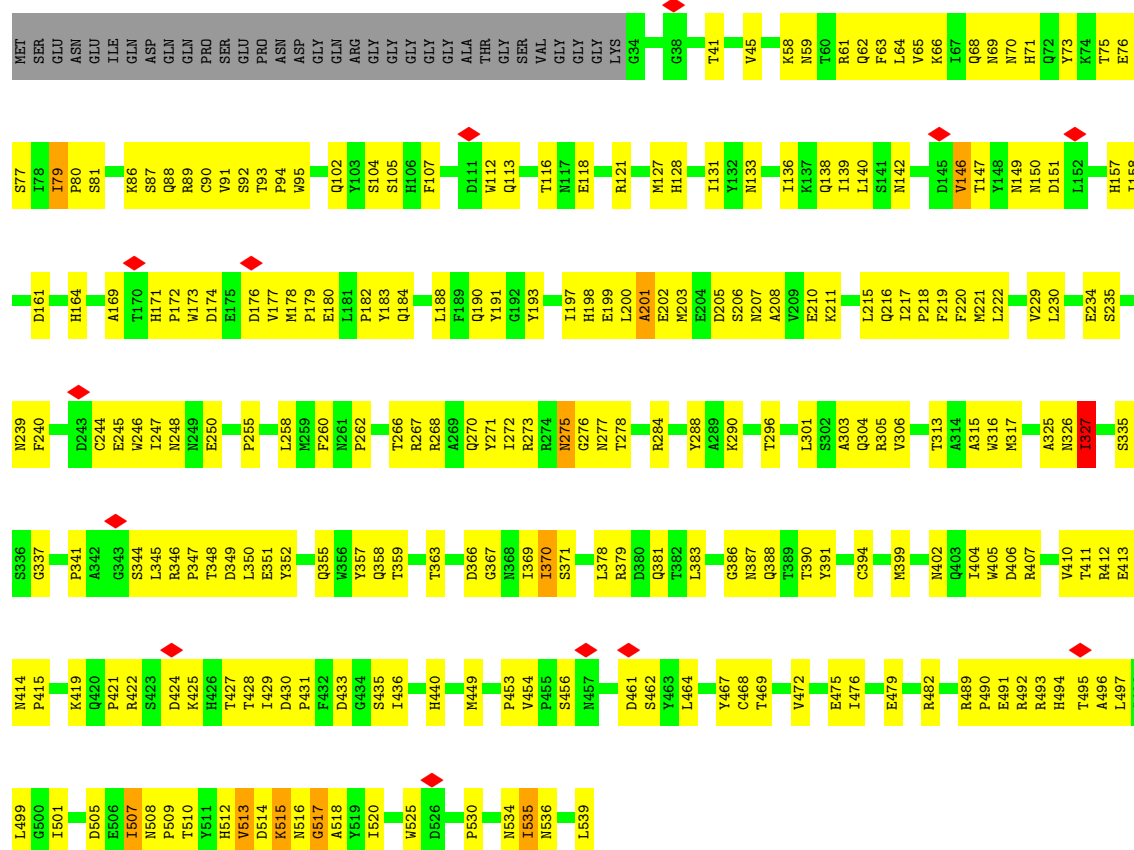
Chain a: 48% 43% 6%





• Molecule 1: VP2

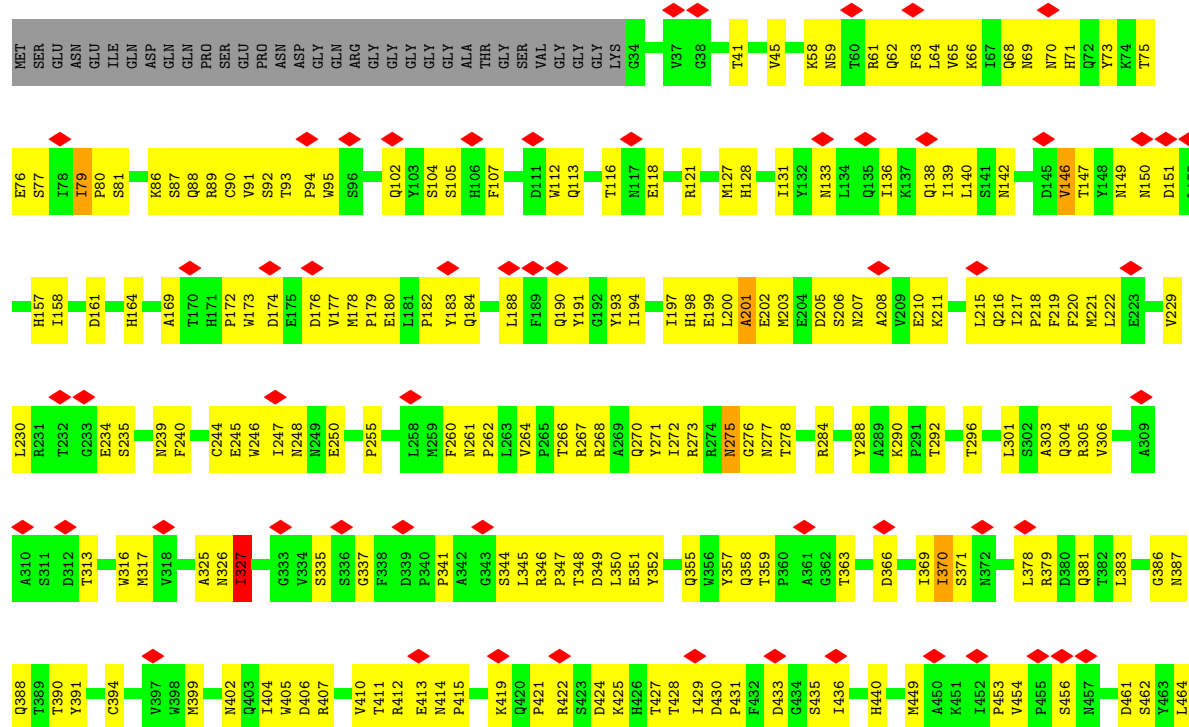
Chain b:

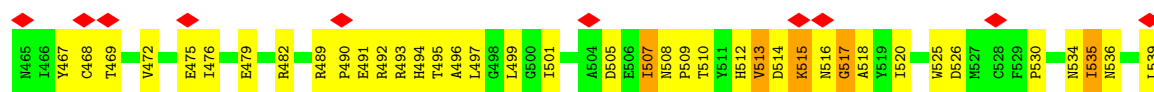


• Molecule 1: VP2

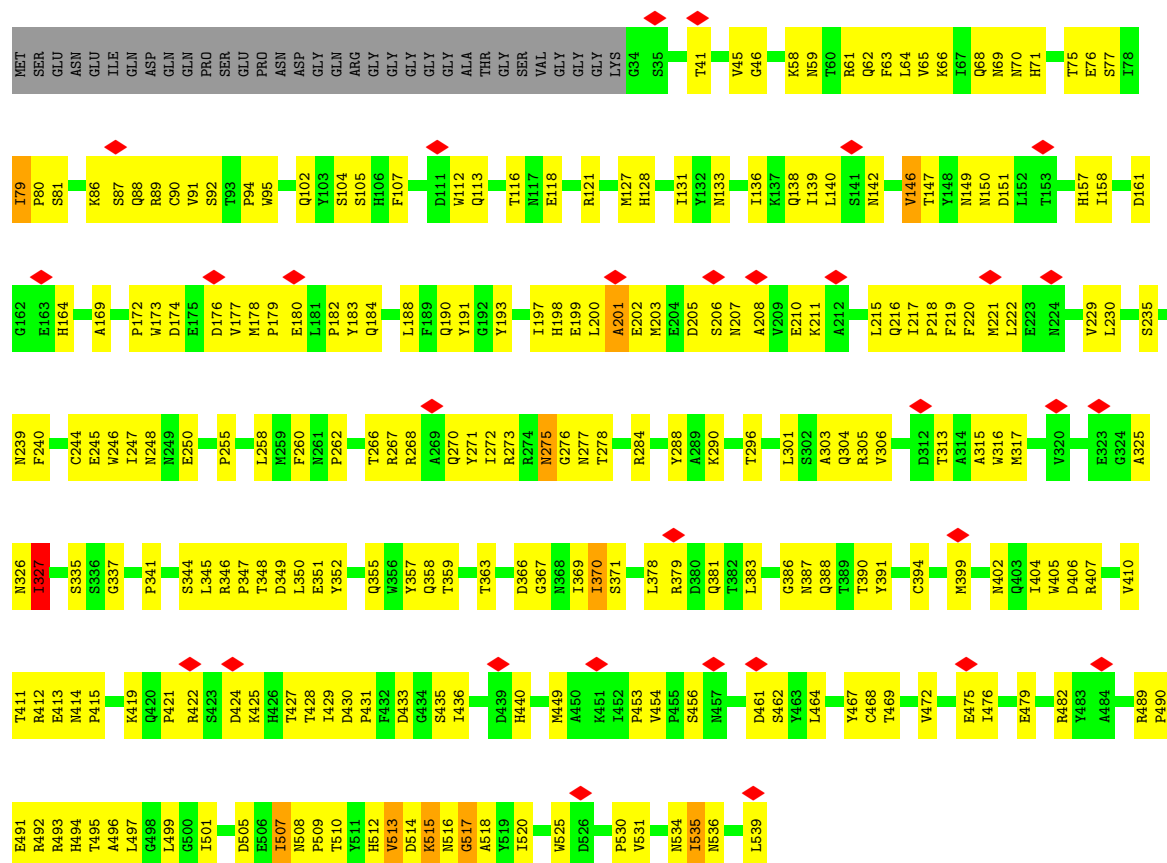
Chain c:



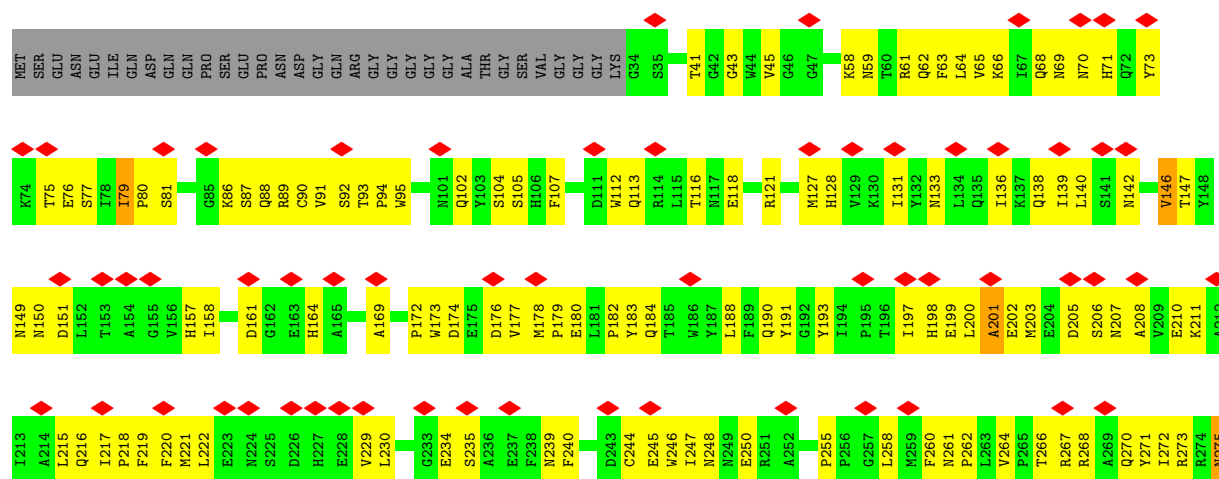


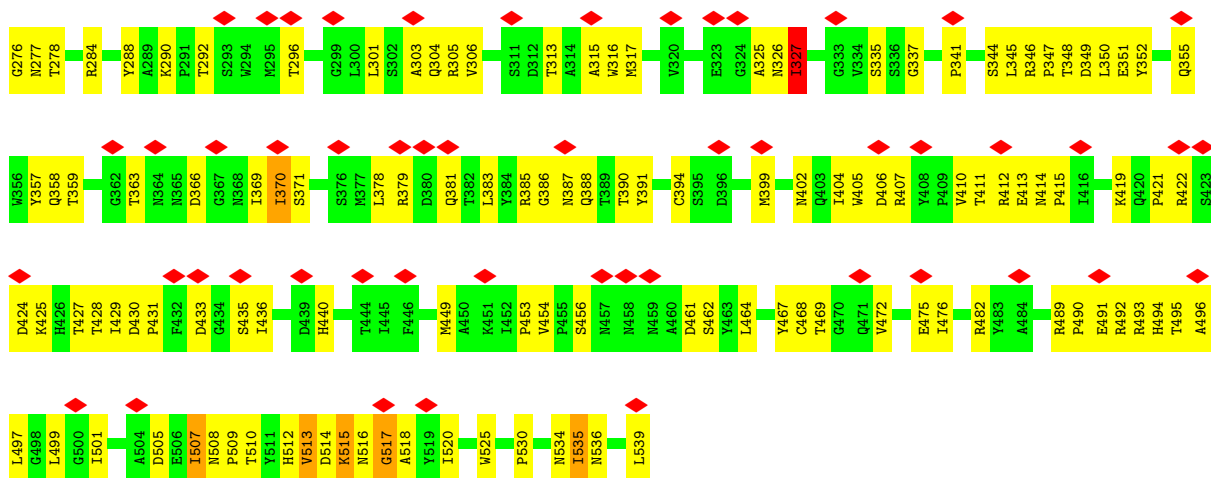


• Molecule 1: VP2

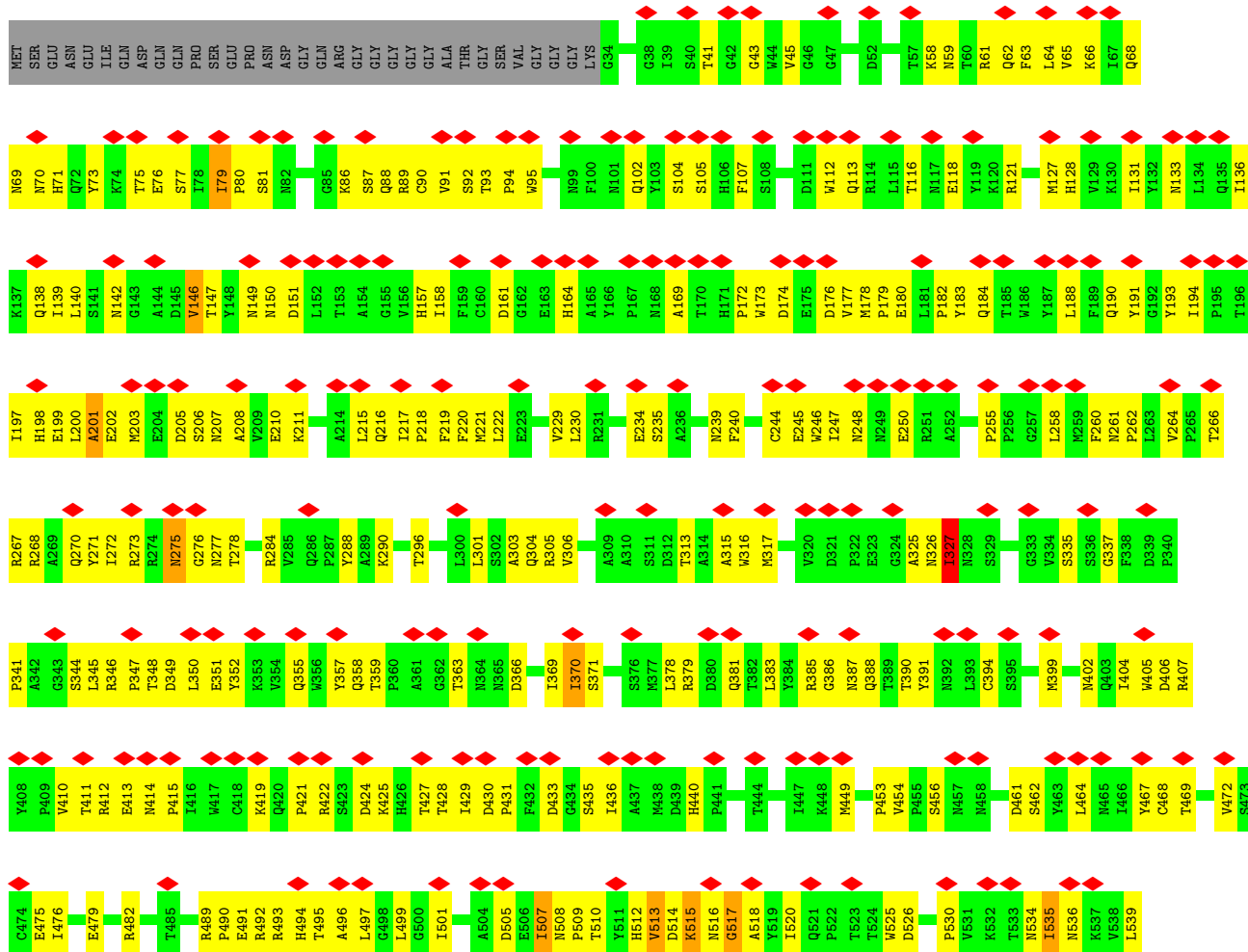


• Molecule 1: VP2



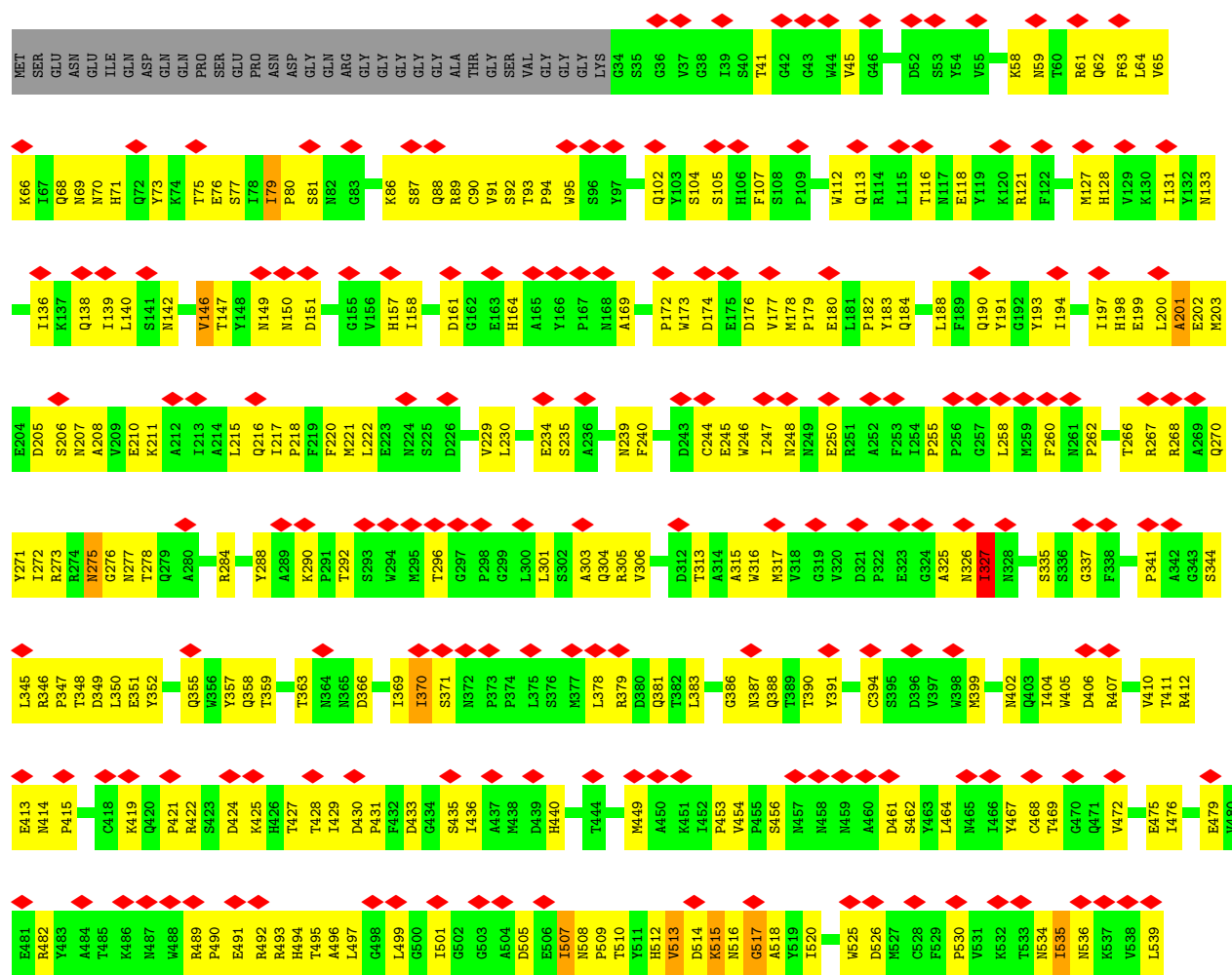


• Molecule 1: VP2



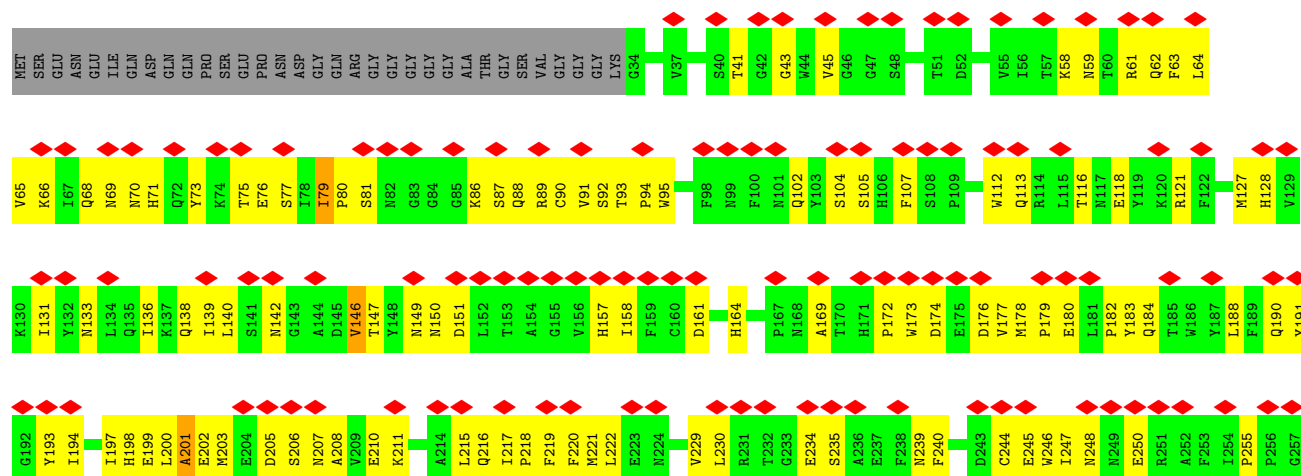
• Molecule 1: VP2

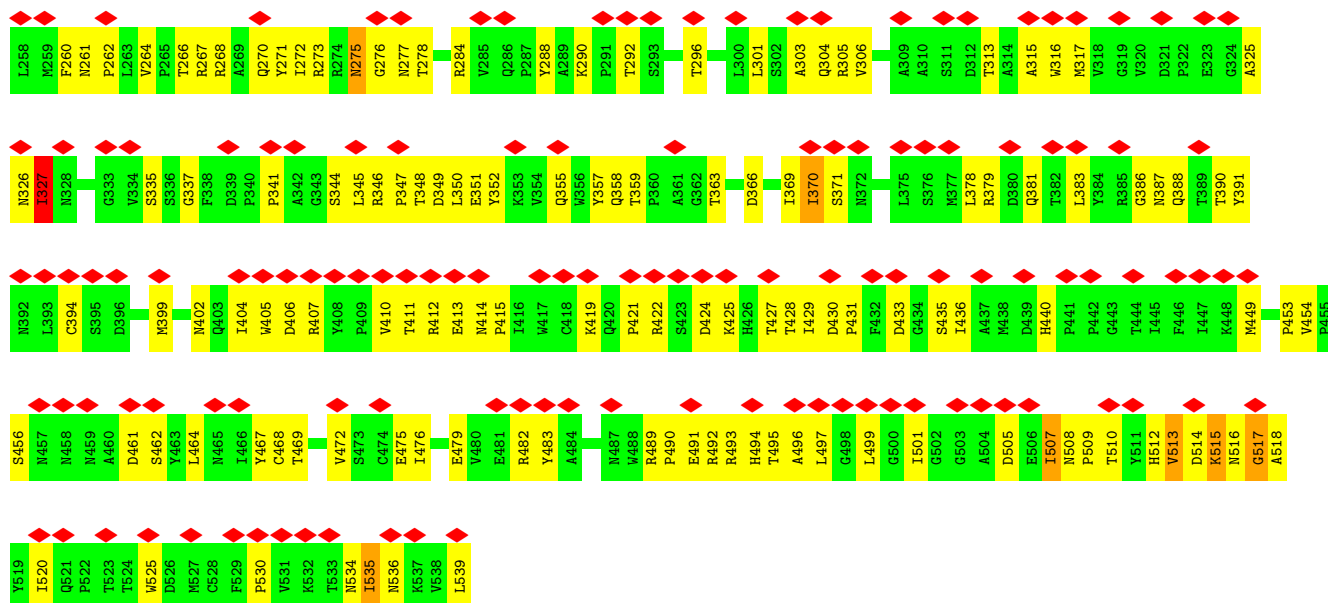
Chain h: 



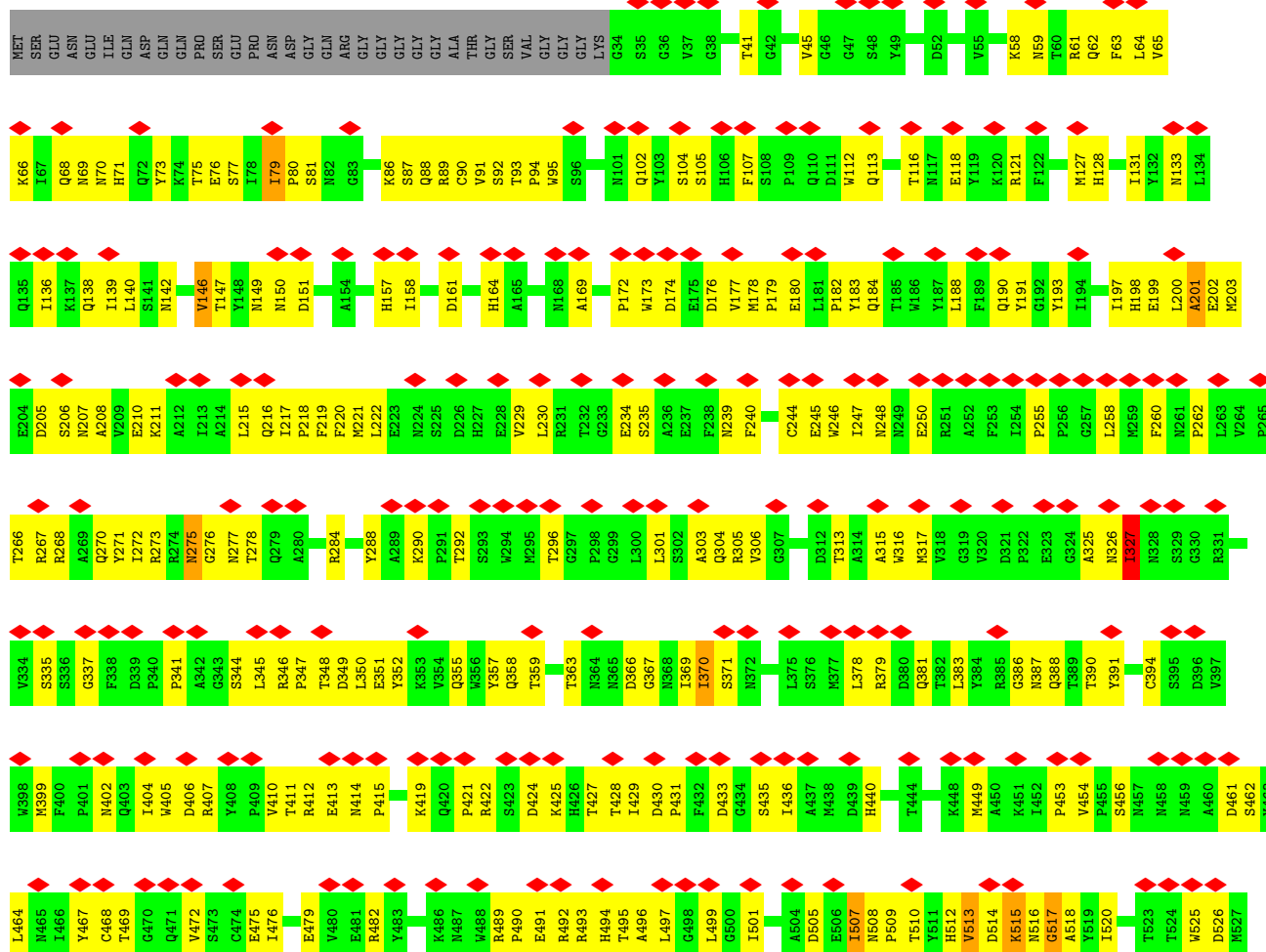
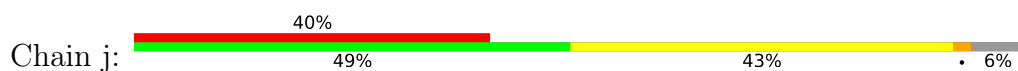
• Molecule 1: VP2

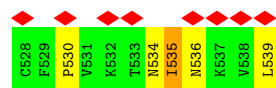
Chain i: 



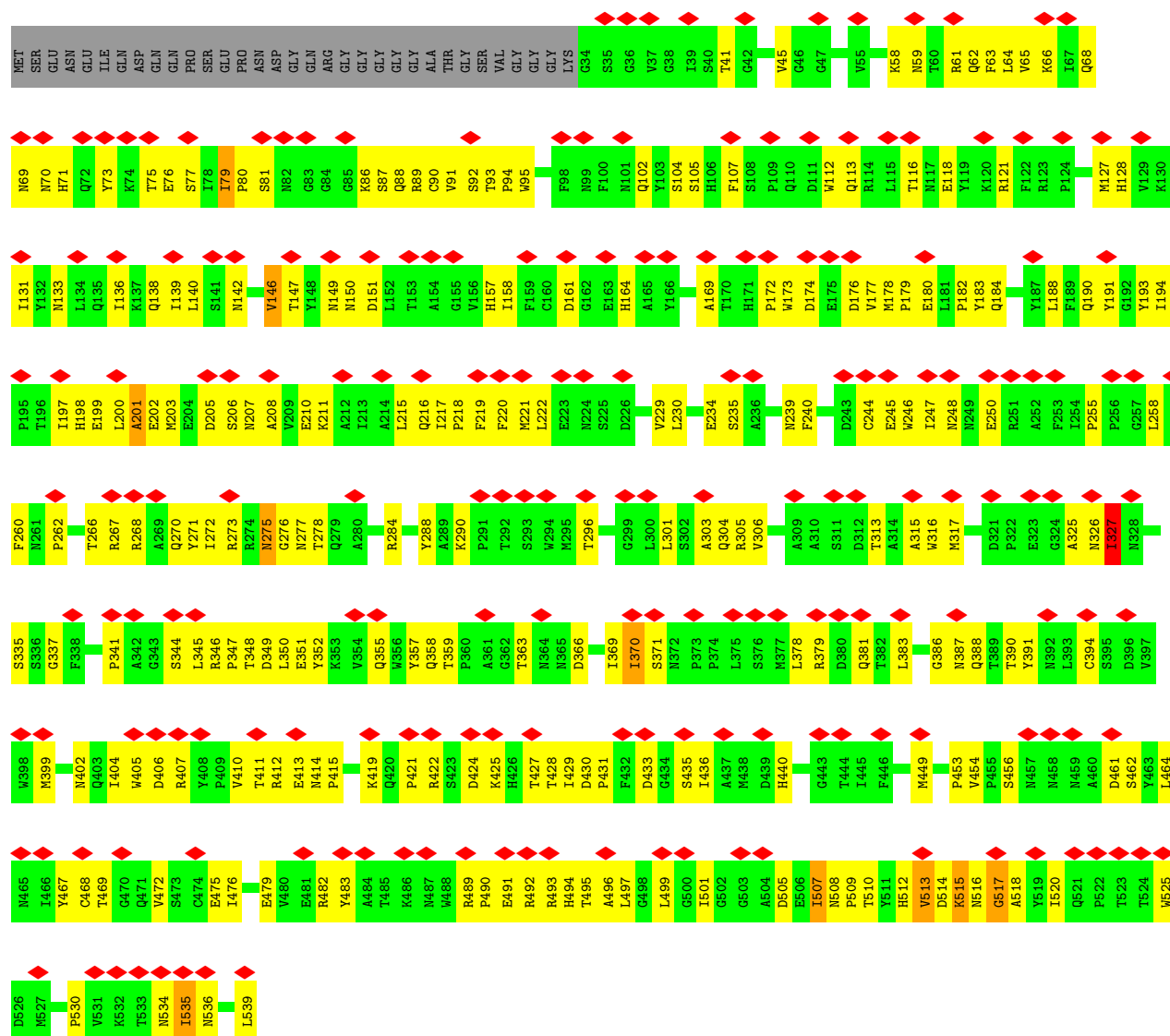


• Molecule 1: VP2

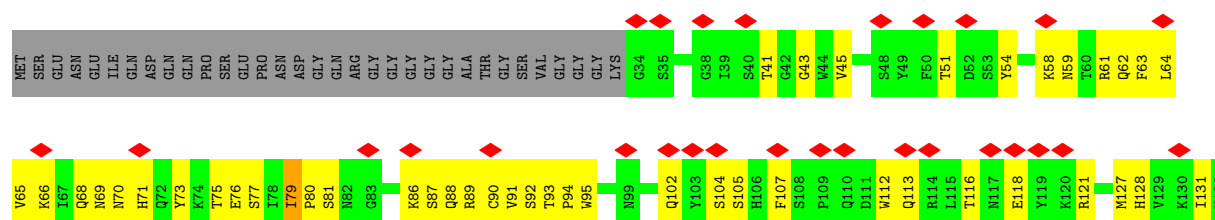


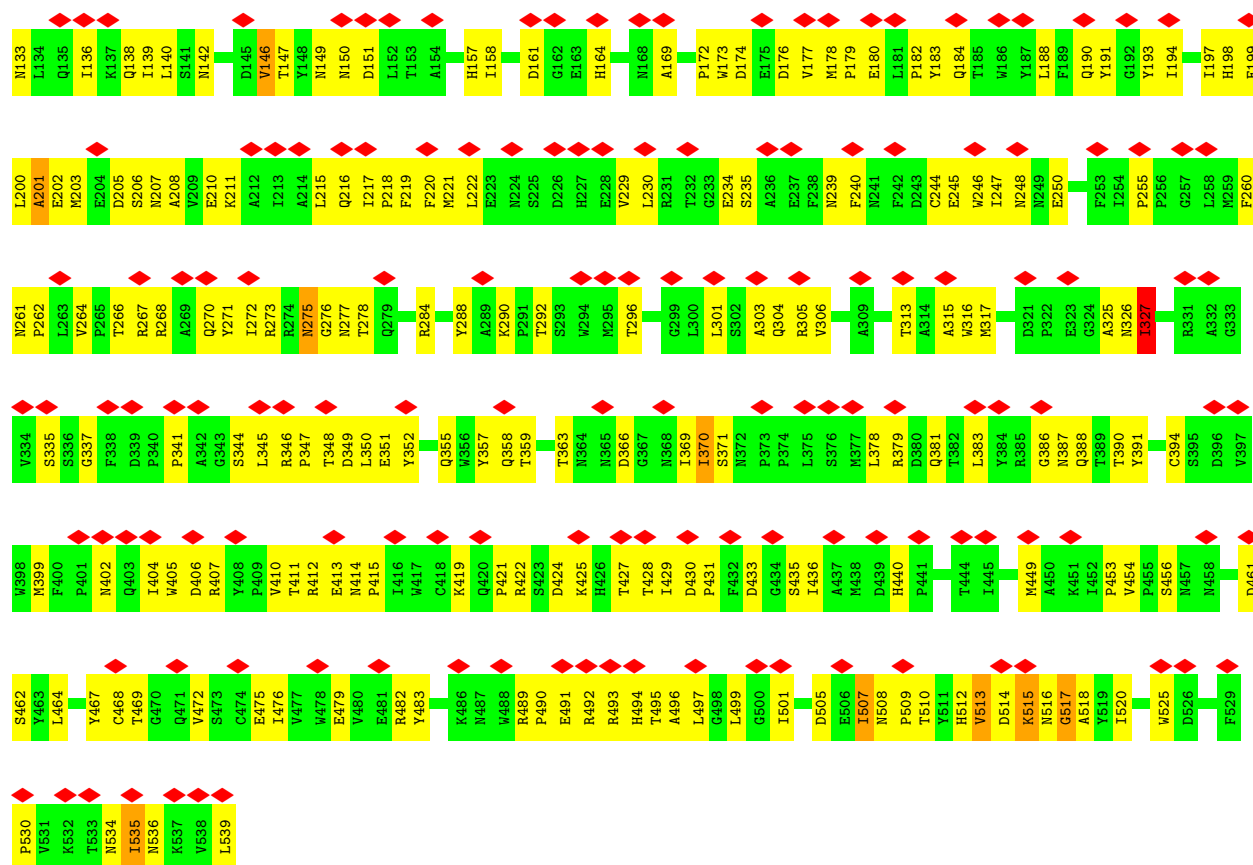


• Molecule 1: VP2

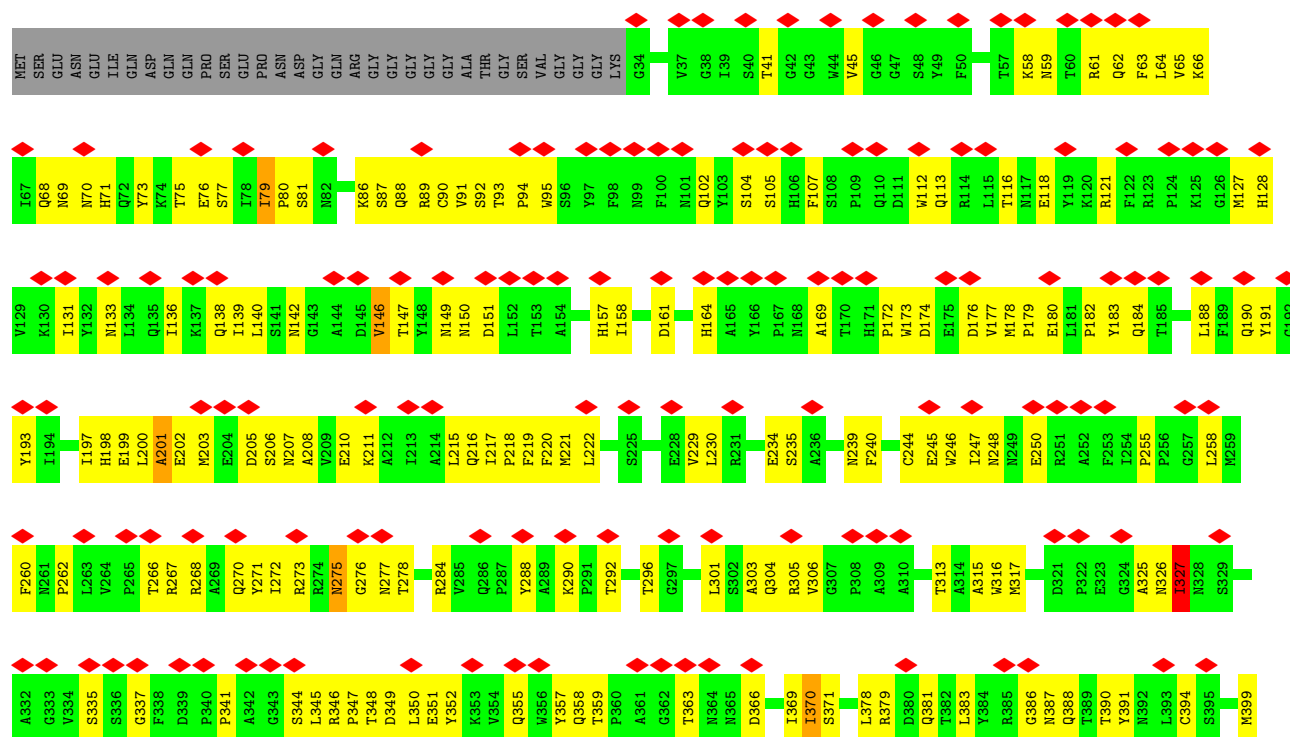
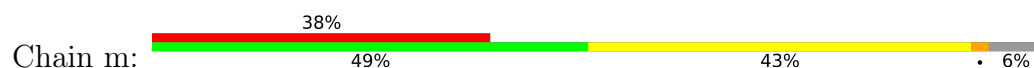


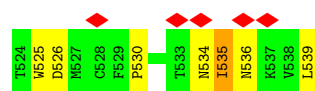
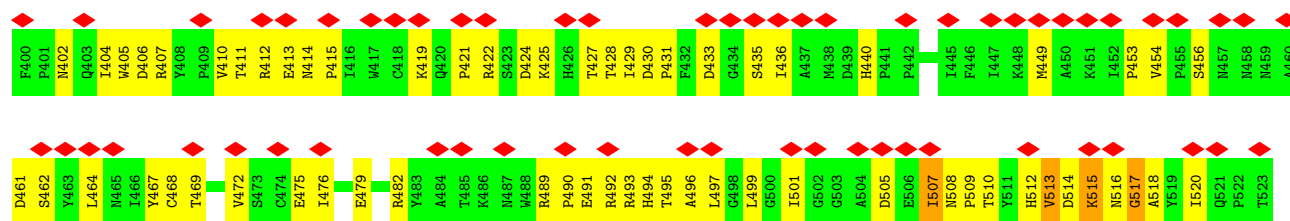
• Molecule 1: VP2



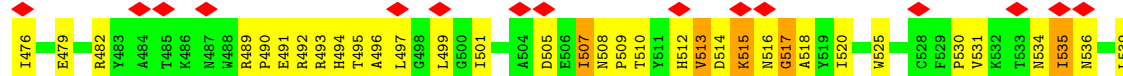
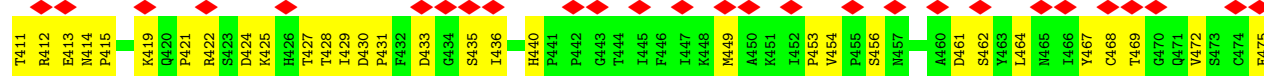
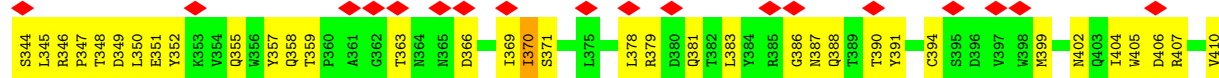
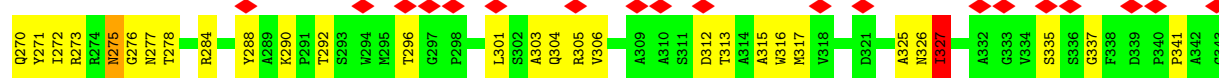
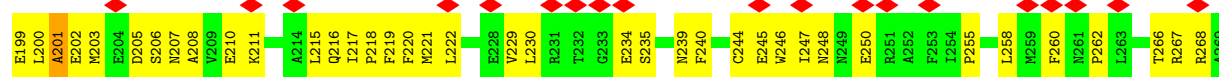
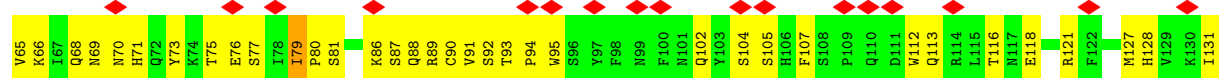
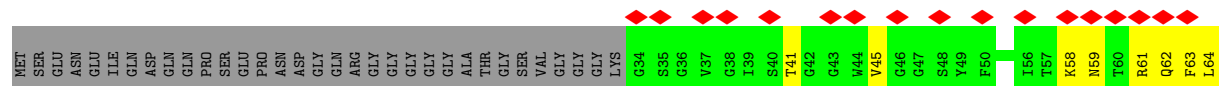


• Molecule 1: VP2

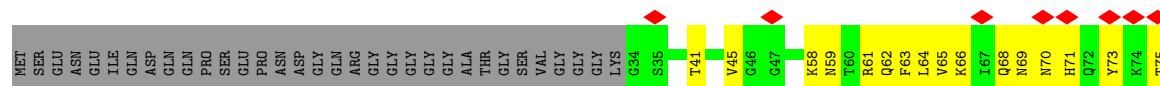


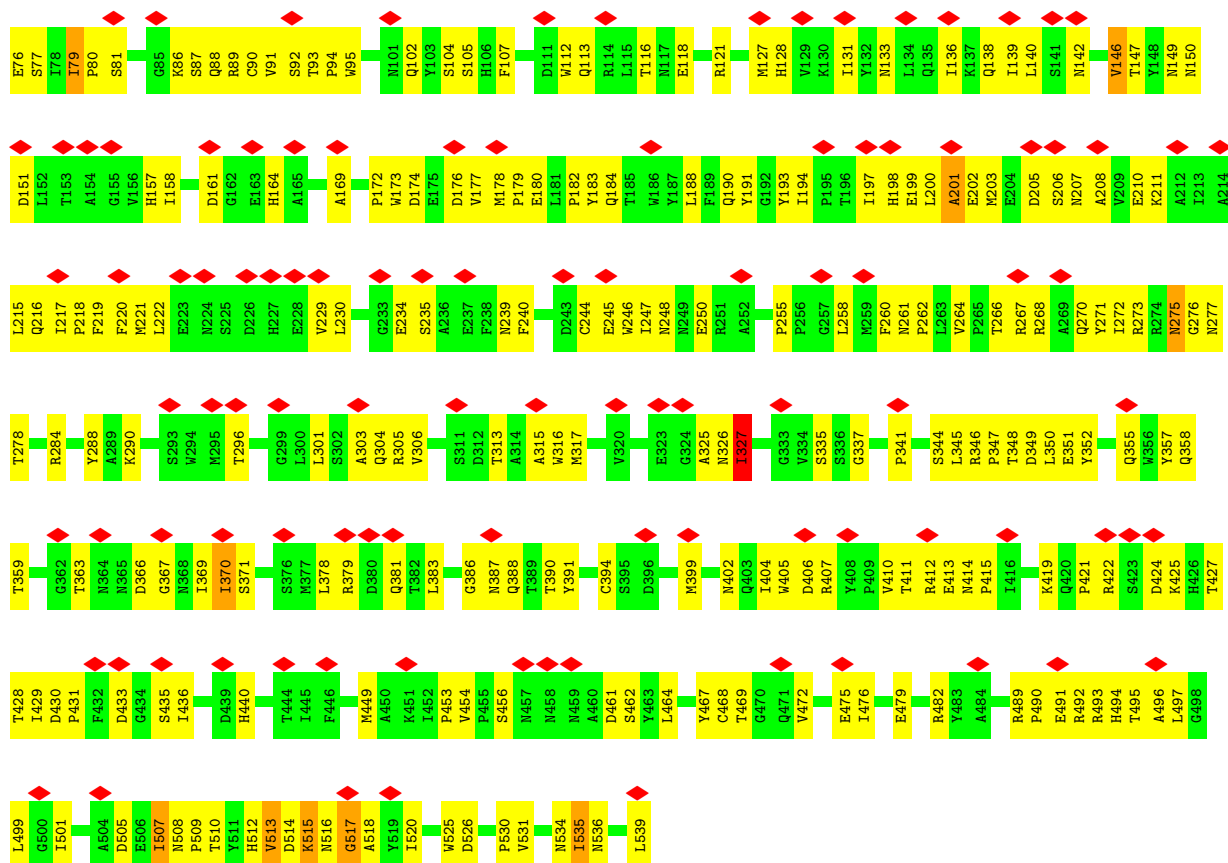


• Molecule 1: VP2

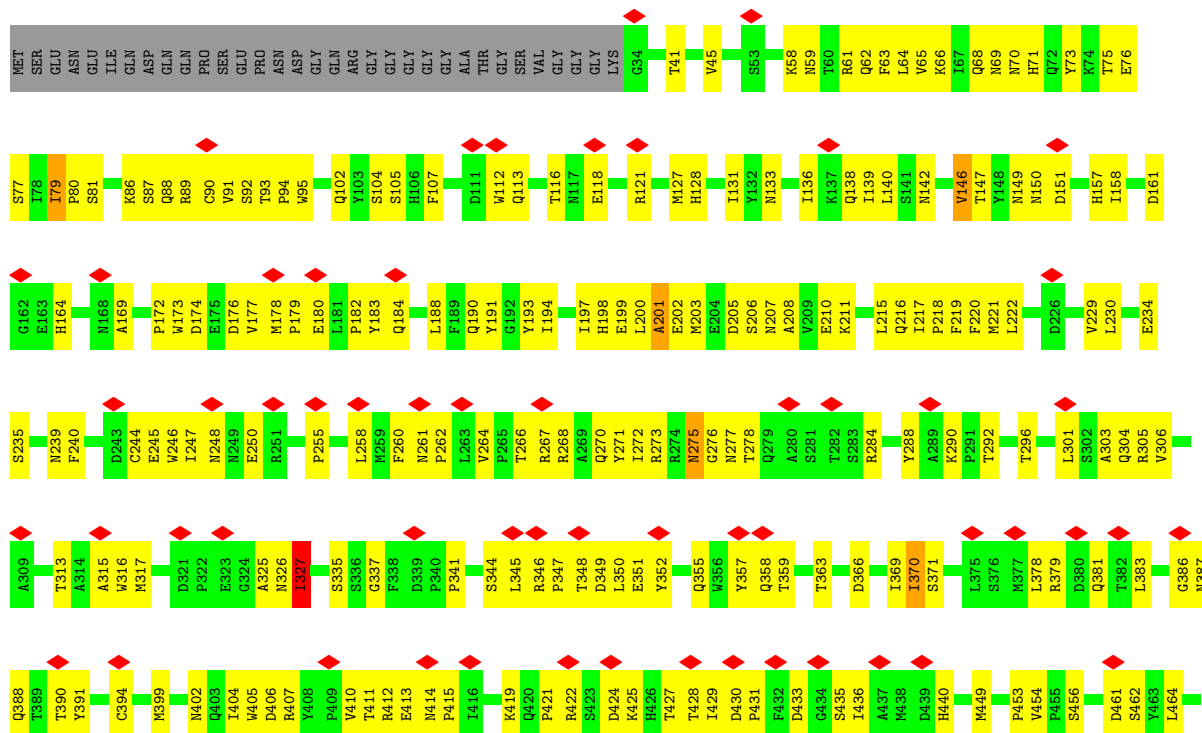


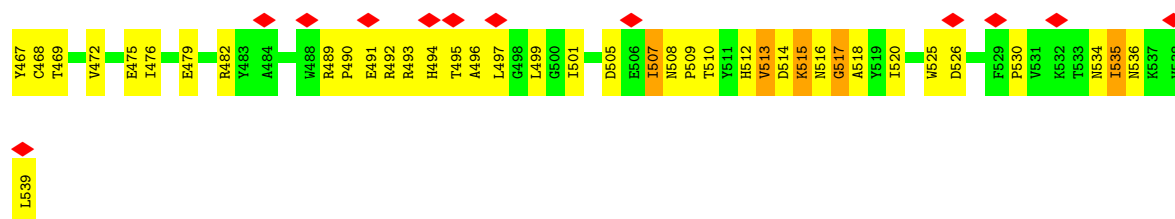
• Molecule 1: VP2



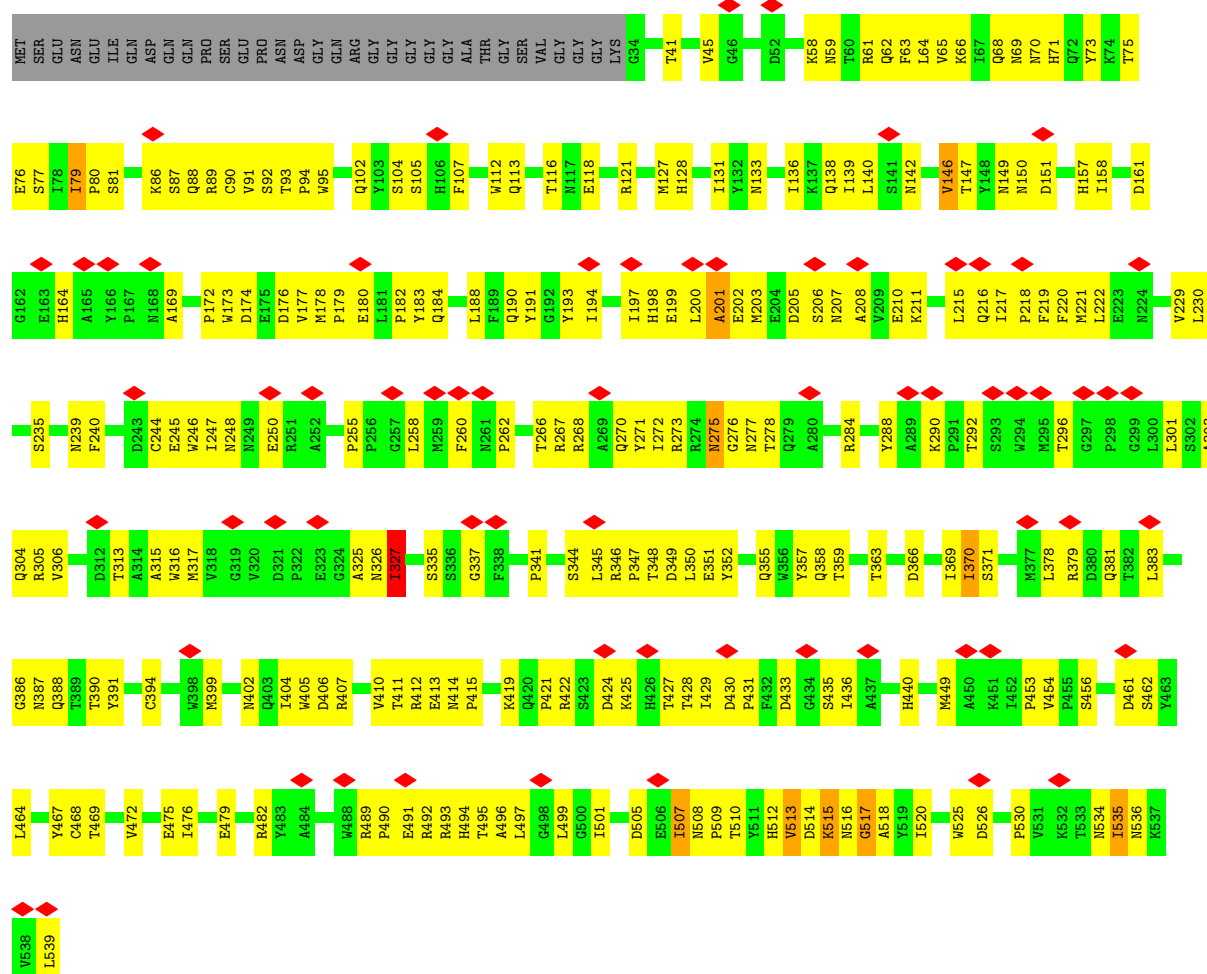


• Molecule 1: VP2

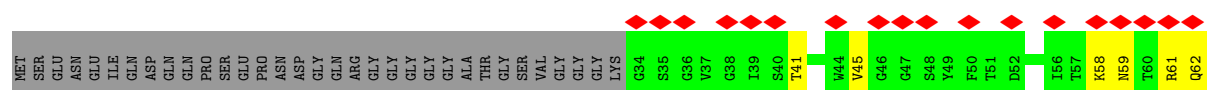


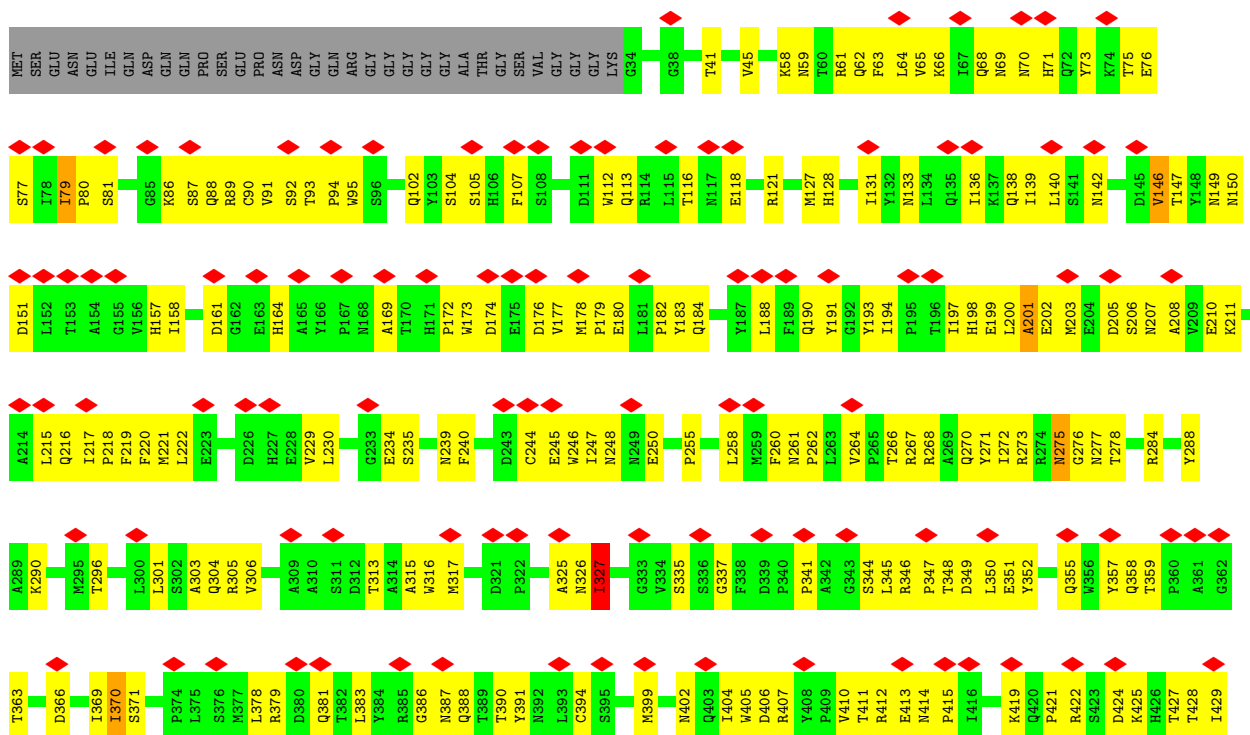


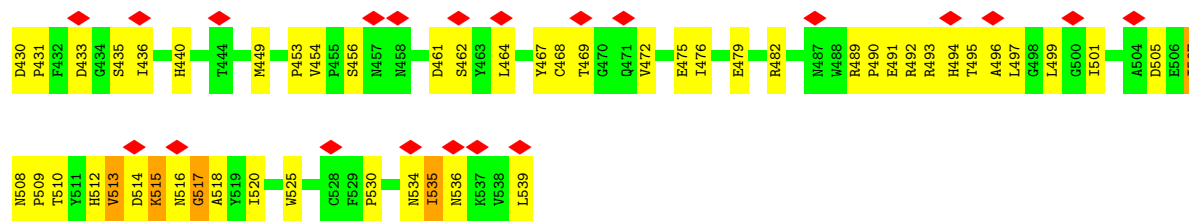
• Molecule 1: VP2



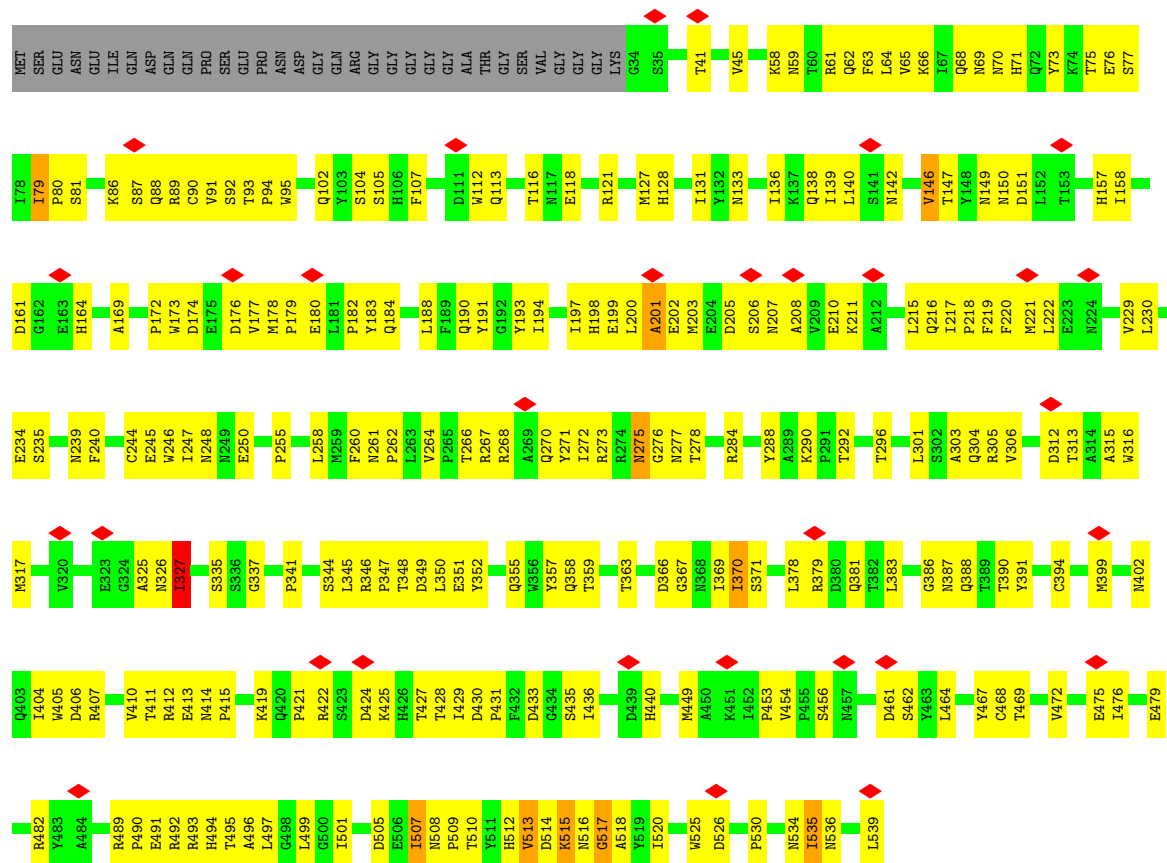
• Molecule 1: VP2



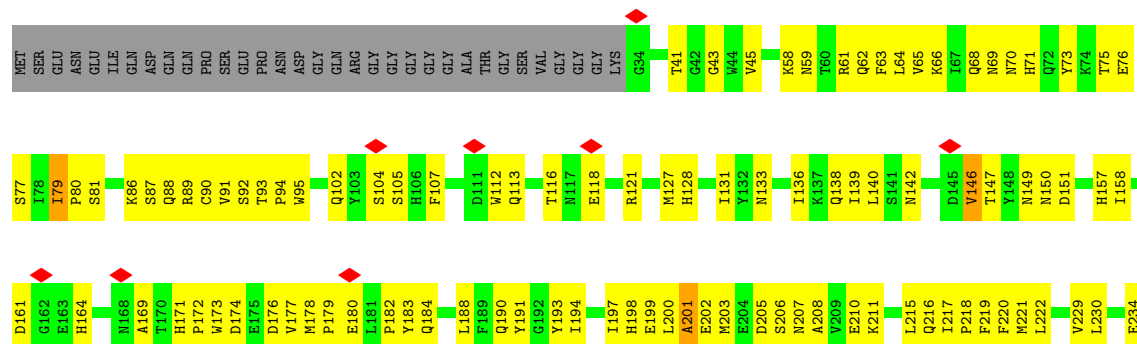


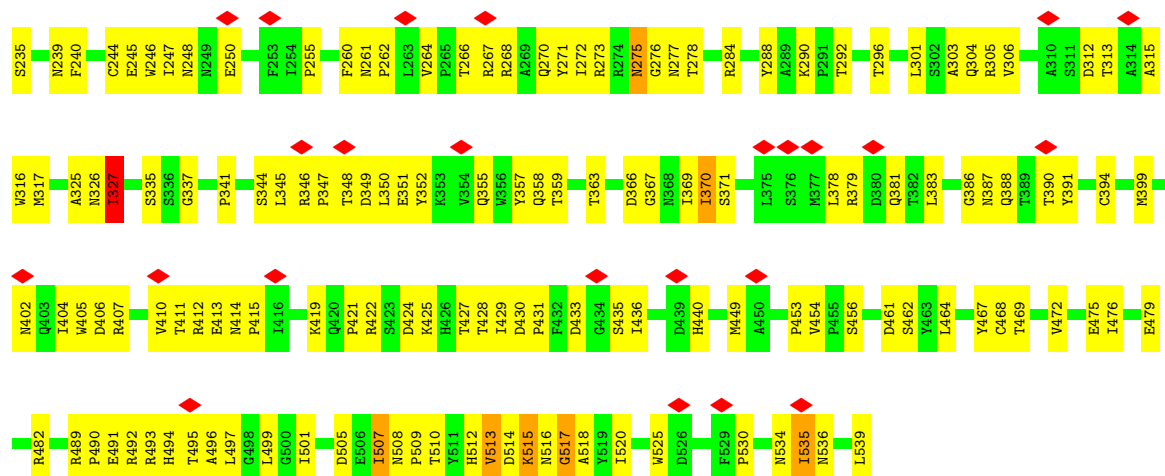


• Molecule 1: VP2

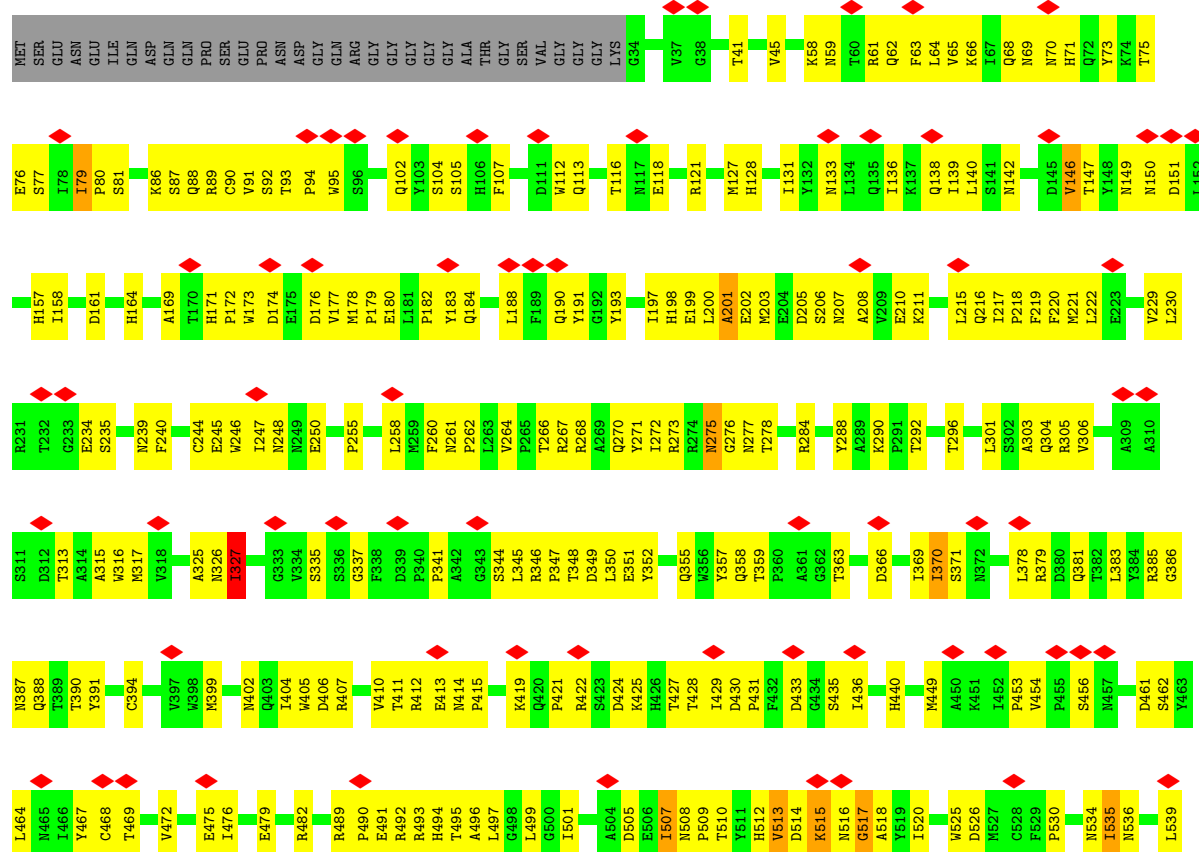


• Molecule 1: VP2

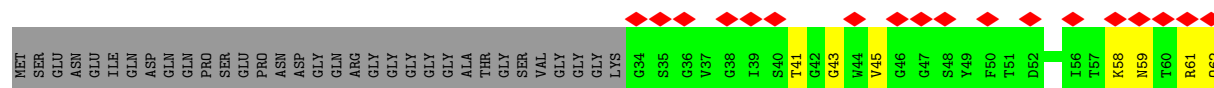


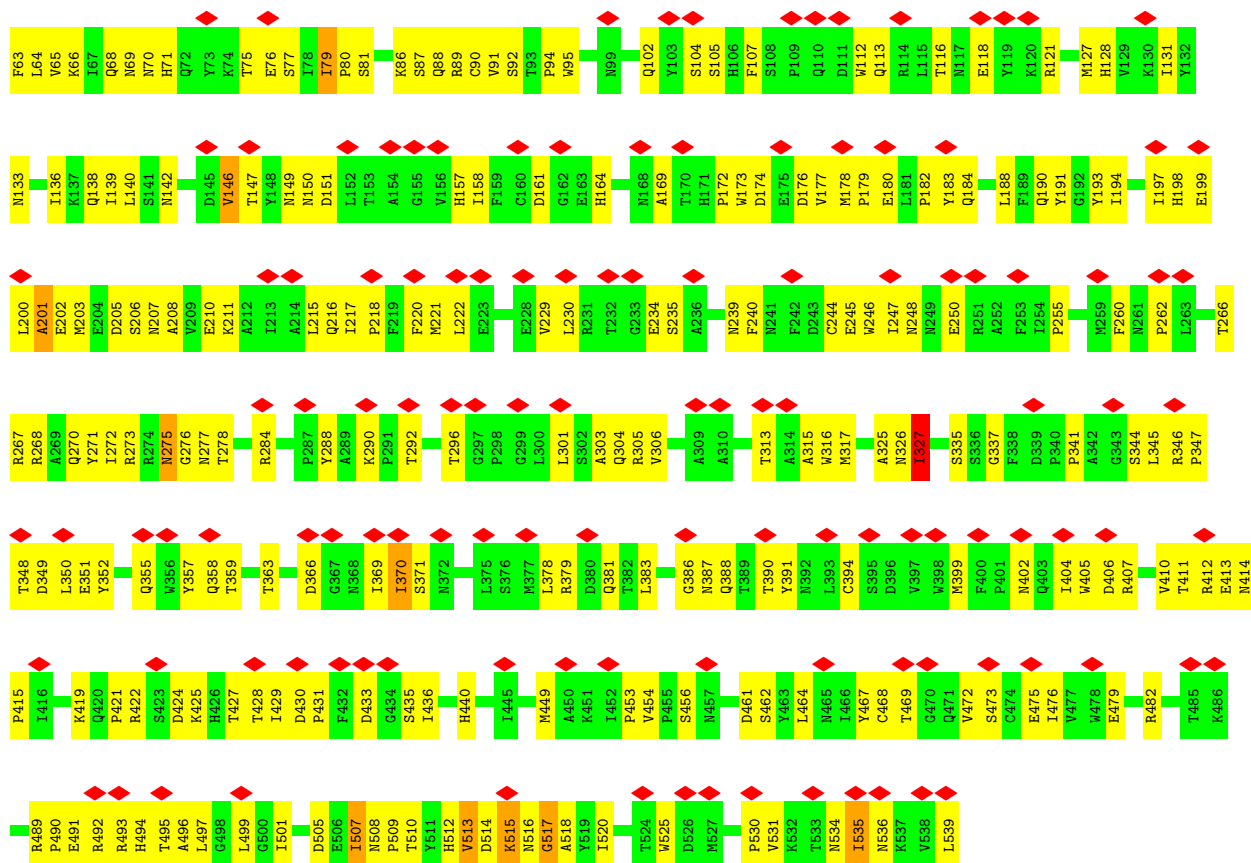


• Molecule 1: VP2

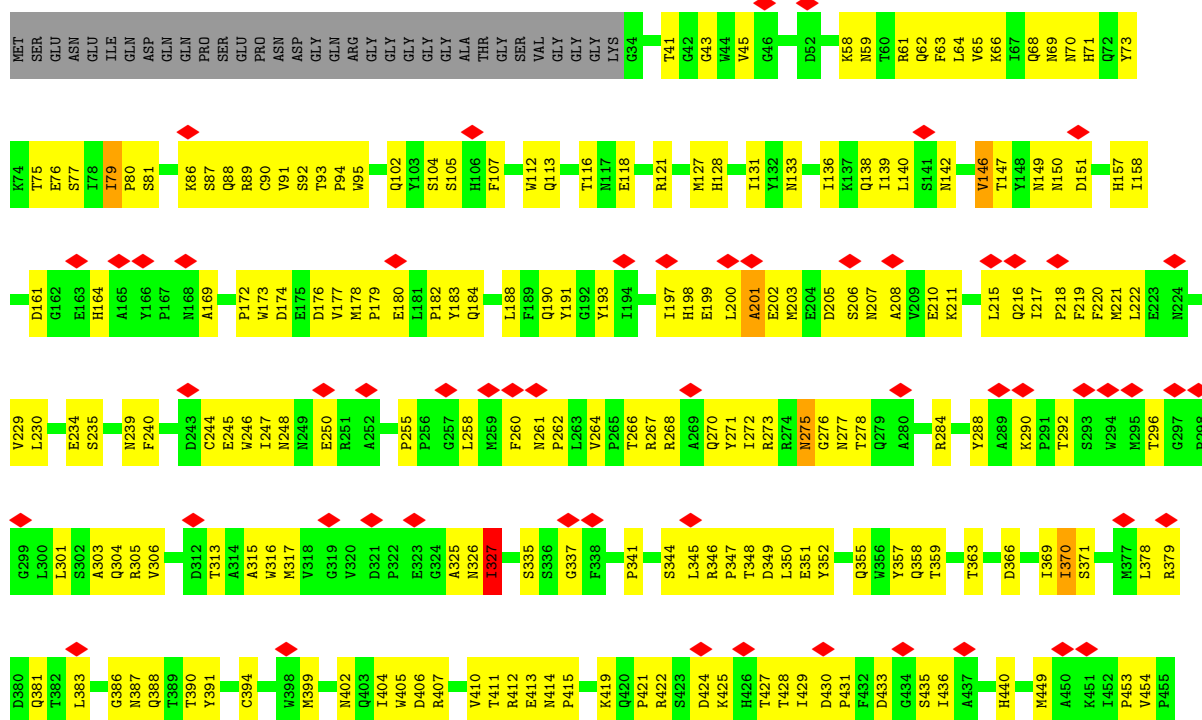


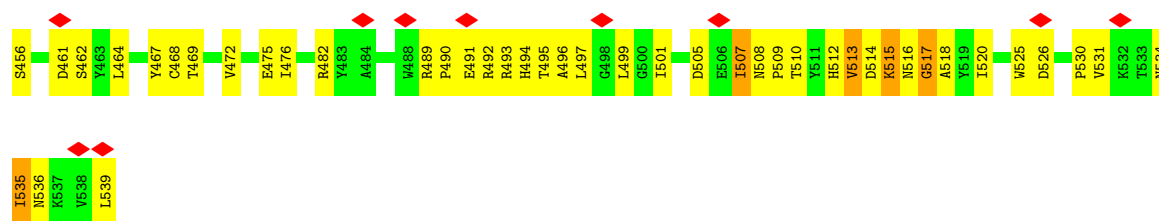
• Molecule 1: VP2



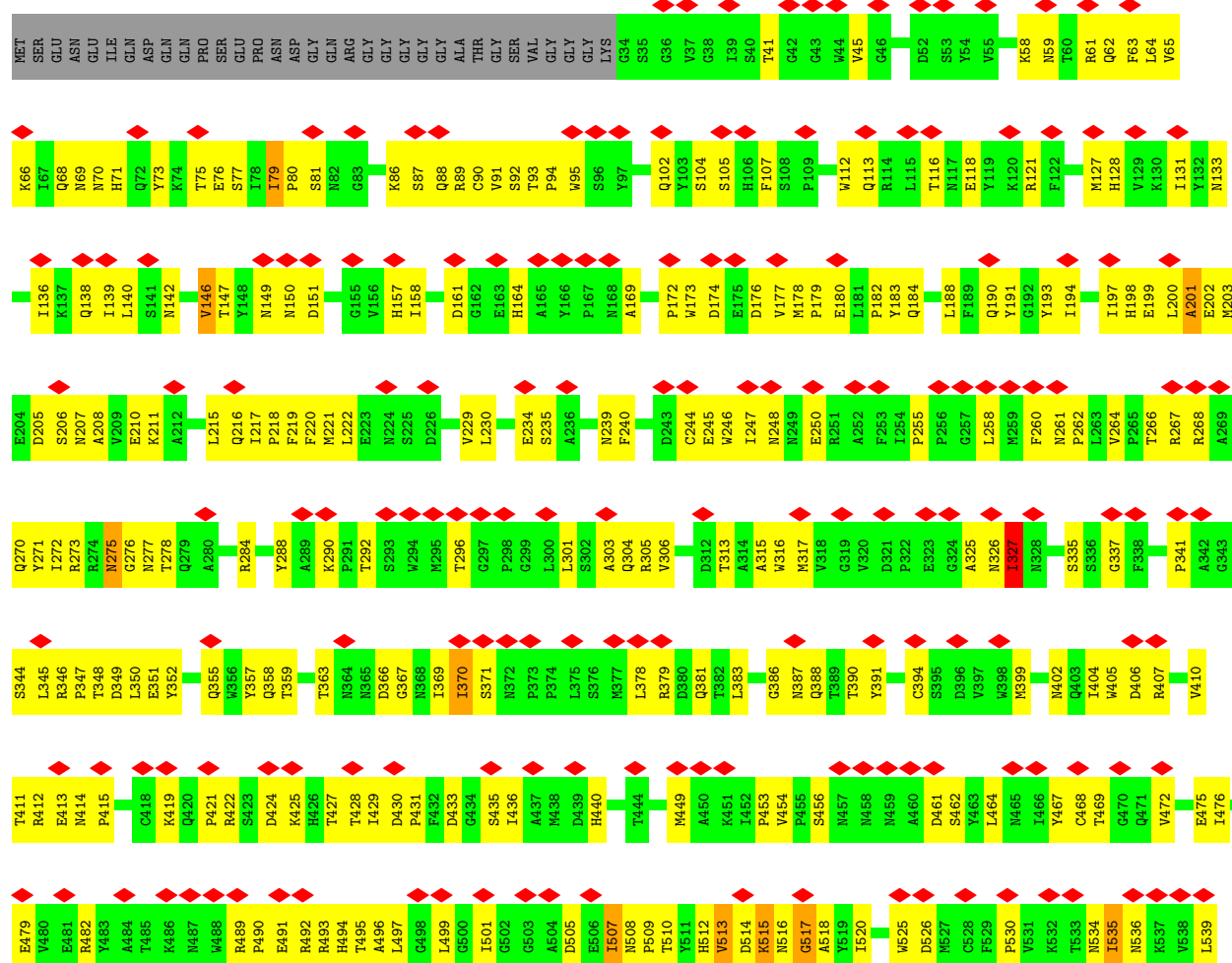


• Molecule 1: VP2

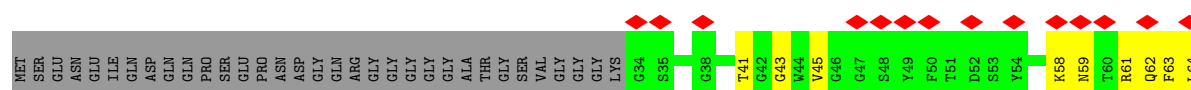


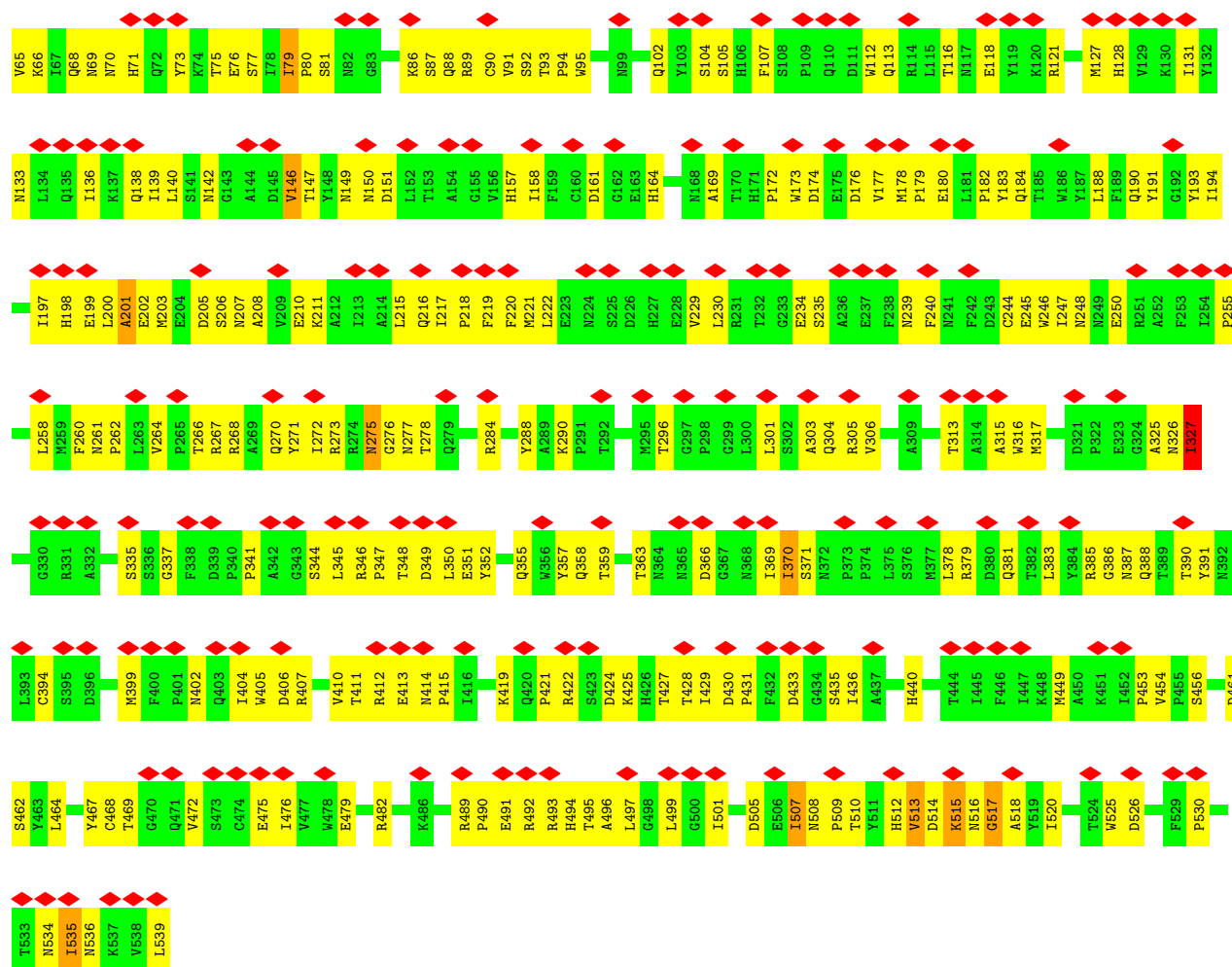


• Molecule 1: VP2

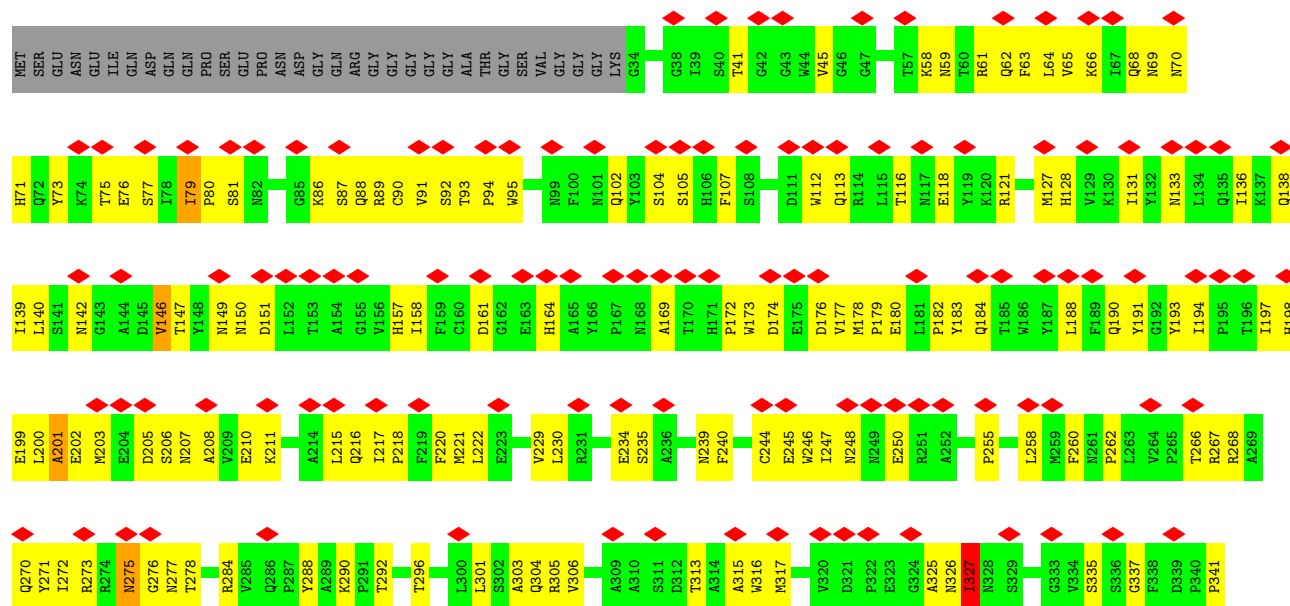


• Molecule 1: VP2





• Molecule 1: VP2





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	28707	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	63	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor
Maximum map value	17.137	Depositor
Minimum map value	-8.492	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	379.05, 379.05, 379.05	wwPDB
Map dimensions	399, 399, 399	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.95, 0.95, 0.95	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	1	0.44	0/4163	0.68	5/5681 (0.1%)
1	2	0.44	0/4163	0.68	5/5681 (0.1%)
1	3	0.44	0/4163	0.68	5/5681 (0.1%)
1	4	0.44	0/4163	0.68	5/5681 (0.1%)
1	5	0.44	0/4163	0.68	5/5681 (0.1%)
1	6	0.44	0/4163	0.68	5/5681 (0.1%)
1	7	0.44	0/4163	0.68	5/5681 (0.1%)
1	8	0.44	0/4163	0.68	5/5681 (0.1%)
1	A	0.44	0/4163	0.68	5/5681 (0.1%)
1	B	0.44	0/4163	0.68	5/5681 (0.1%)
1	C	0.44	0/4163	0.68	5/5681 (0.1%)
1	D	0.44	0/4163	0.68	5/5681 (0.1%)
1	E	0.44	0/4163	0.68	5/5681 (0.1%)
1	F	0.44	0/4163	0.68	5/5681 (0.1%)
1	G	0.44	0/4163	0.68	5/5681 (0.1%)
1	H	0.44	0/4163	0.68	5/5681 (0.1%)
1	I	0.44	0/4163	0.68	5/5681 (0.1%)
1	J	0.44	0/4163	0.68	5/5681 (0.1%)
1	K	0.44	0/4163	0.68	5/5681 (0.1%)
1	L	0.44	0/4163	0.68	3/5681 (0.1%)
1	M	0.44	0/4163	0.68	5/5681 (0.1%)
1	N	0.44	0/4163	0.68	3/5681 (0.1%)
1	O	0.44	0/4163	0.68	5/5681 (0.1%)
1	P	0.44	0/4163	0.68	5/5681 (0.1%)
1	Q	0.44	0/4163	0.68	5/5681 (0.1%)
1	R	0.44	0/4163	0.68	5/5681 (0.1%)
1	S	0.44	0/4163	0.68	5/5681 (0.1%)
1	T	0.44	0/4163	0.68	3/5681 (0.1%)
1	U	0.44	0/4163	0.68	5/5681 (0.1%)
1	V	0.44	0/4163	0.68	5/5681 (0.1%)
1	W	0.44	0/4163	0.68	5/5681 (0.1%)
1	X	0.44	0/4163	0.68	5/5681 (0.1%)
1	Y	0.44	0/4163	0.68	5/5681 (0.1%)
1	Z	0.44	0/4163	0.68	5/5681 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.44	0/4163	0.68	5/5681 (0.1%)
1	b	0.44	0/4163	0.68	5/5681 (0.1%)
1	c	0.44	0/4163	0.68	5/5681 (0.1%)
1	d	0.44	0/4163	0.68	5/5681 (0.1%)
1	e	0.44	0/4163	0.68	5/5681 (0.1%)
1	f	0.44	0/4163	0.68	5/5681 (0.1%)
1	g	0.44	0/4163	0.68	5/5681 (0.1%)
1	h	0.44	0/4163	0.68	5/5681 (0.1%)
1	i	0.44	0/4163	0.68	5/5681 (0.1%)
1	j	0.44	0/4163	0.68	5/5681 (0.1%)
1	k	0.44	0/4163	0.68	5/5681 (0.1%)
1	l	0.44	0/4163	0.68	5/5681 (0.1%)
1	m	0.44	0/4163	0.68	5/5681 (0.1%)
1	n	0.44	0/4163	0.68	5/5681 (0.1%)
1	o	0.44	0/4163	0.68	5/5681 (0.1%)
1	p	0.44	0/4163	0.68	5/5681 (0.1%)
1	q	0.44	0/4163	0.68	5/5681 (0.1%)
1	r	0.44	0/4163	0.68	5/5681 (0.1%)
1	s	0.44	0/4163	0.68	5/5681 (0.1%)
1	t	0.44	0/4163	0.68	5/5681 (0.1%)
1	u	0.44	0/4163	0.68	5/5681 (0.1%)
1	v	0.44	0/4163	0.68	5/5681 (0.1%)
1	w	0.44	0/4163	0.68	5/5681 (0.1%)
1	x	0.44	0/4163	0.68	5/5681 (0.1%)
1	y	0.44	0/4163	0.68	5/5681 (0.1%)
1	z	0.44	0/4163	0.68	5/5681 (0.1%)
All	All	0.44	0/249780	0.68	294/340860 (0.1%)

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

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

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	4
1	B	0	4
1	C	0	4
1	D	0	4
1	E	0	4
1	F	0	4
1	G	0	4
1	H	0	4
1	I	0	4
1	J	0	4
1	K	0	4
1	L	0	4
1	M	0	4
1	N	0	4
1	O	0	4
1	P	0	4
1	Q	0	4
1	R	0	4
1	S	0	4
1	T	0	4
1	U	0	4
1	V	0	4
1	W	0	4
1	X	0	4
1	Y	0	4
1	Z	0	4
1	a	0	4
1	b	0	4
1	c	0	4
1	d	0	4
1	e	0	4
1	f	0	4
1	g	0	4
1	h	0	4
1	i	0	4
1	j	0	4
1	k	0	4
1	l	0	4
1	m	0	4
1	n	0	4
1	o	0	4
1	p	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	4
1	r	0	4
1	s	0	4
1	t	0	4
1	u	0	4
1	v	0	4
1	w	0	4
1	x	0	4
1	y	0	4
1	z	0	4
All	All	0	240

There are no bond length outliers.

All (294) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	515	LYS	N-CA-C	10.39	122.36	111.14
1	E	515	LYS	N-CA-C	10.39	122.36	111.14
1	P	515	LYS	N-CA-C	10.39	122.36	111.14
1	b	515	LYS	N-CA-C	10.39	122.36	111.14
1	u	515	LYS	N-CA-C	10.39	122.36	111.14
1	T	515	LYS	N-CA-C	10.38	122.35	111.14
1	N	515	LYS	N-CA-C	10.37	122.34	111.14
1	l	515	LYS	N-CA-C	10.37	122.34	111.14
1	t	515	LYS	N-CA-C	10.37	122.34	111.14
1	m	515	LYS	N-CA-C	10.36	122.33	111.14
1	f	515	LYS	N-CA-C	10.36	122.33	111.14
1	J	515	LYS	N-CA-C	10.36	122.33	111.14
1	j	515	LYS	N-CA-C	10.36	122.33	111.14
1	a	515	LYS	N-CA-C	10.36	122.33	111.14
1	F	515	LYS	N-CA-C	10.35	122.32	111.14
1	L	515	LYS	N-CA-C	10.35	122.32	111.14
1	I	515	LYS	N-CA-C	10.35	122.32	111.14
1	6	515	LYS	N-CA-C	10.35	122.32	111.14
1	h	515	LYS	N-CA-C	10.35	122.32	111.14
1	y	515	LYS	N-CA-C	10.35	122.32	111.14
1	4	515	LYS	N-CA-C	10.35	122.31	111.14
1	e	515	LYS	N-CA-C	10.35	122.31	111.14
1	8	515	LYS	N-CA-C	10.35	122.31	111.14
1	5	515	LYS	N-CA-C	10.34	122.31	111.14
1	S	515	LYS	N-CA-C	10.34	122.31	111.14
1	2	515	LYS	N-CA-C	10.34	122.31	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	515	LYS	N-CA-C	10.34	122.31	111.14
1	C	515	LYS	N-CA-C	10.33	122.30	111.14
1	M	515	LYS	N-CA-C	10.33	122.30	111.14
1	R	515	LYS	N-CA-C	10.33	122.30	111.14
1	U	515	LYS	N-CA-C	10.33	122.30	111.14
1	c	515	LYS	N-CA-C	10.33	122.30	111.14
1	o	515	LYS	N-CA-C	10.33	122.30	111.14
1	x	515	LYS	N-CA-C	10.33	122.30	111.14
1	d	515	LYS	N-CA-C	10.33	122.30	111.14
1	r	515	LYS	N-CA-C	10.33	122.30	111.14
1	s	515	LYS	N-CA-C	10.33	122.30	111.14
1	W	515	LYS	N-CA-C	10.33	122.30	111.14
1	O	515	LYS	N-CA-C	10.33	122.29	111.14
1	q	515	LYS	N-CA-C	10.33	122.29	111.14
1	D	515	LYS	N-CA-C	10.32	122.29	111.14
1	Q	515	LYS	N-CA-C	10.32	122.29	111.14
1	H	515	LYS	N-CA-C	10.32	122.29	111.14
1	V	515	LYS	N-CA-C	10.32	122.29	111.14
1	Y	515	LYS	N-CA-C	10.32	122.29	111.14
1	g	515	LYS	N-CA-C	10.32	122.29	111.14
1	p	515	LYS	N-CA-C	10.32	122.29	111.14
1	v	515	LYS	N-CA-C	10.32	122.29	111.14
1	A	515	LYS	N-CA-C	10.32	122.29	111.14
1	K	515	LYS	N-CA-C	10.31	122.28	111.14
1	G	515	LYS	N-CA-C	10.31	122.28	111.14
1	z	515	LYS	N-CA-C	10.31	122.27	111.14
1	7	515	LYS	N-CA-C	10.31	122.27	111.14
1	Z	515	LYS	N-CA-C	10.30	122.27	111.14
1	1	515	LYS	N-CA-C	10.30	122.26	111.14
1	3	515	LYS	N-CA-C	10.30	122.26	111.14
1	k	515	LYS	N-CA-C	10.30	122.26	111.14
1	i	515	LYS	N-CA-C	10.29	122.25	111.14
1	n	515	LYS	N-CA-C	10.29	122.25	111.14
1	X	515	LYS	N-CA-C	10.29	122.25	111.14
1	H	515	LYS	CA-C-N	7.98	136.06	121.70
1	H	515	LYS	C-N-CA	7.98	136.06	121.70
1	I	515	LYS	CA-C-N	7.98	136.06	121.70
1	I	515	LYS	C-N-CA	7.98	136.06	121.70
1	6	515	LYS	CA-C-N	7.98	136.06	121.70
1	6	515	LYS	C-N-CA	7.98	136.06	121.70
1	y	515	LYS	CA-C-N	7.98	136.06	121.70
1	y	515	LYS	C-N-CA	7.98	136.06	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	515	LYS	CA-C-N	7.97	136.05	121.70
1	v	515	LYS	C-N-CA	7.97	136.05	121.70
1	a	515	LYS	CA-C-N	7.97	136.05	121.70
1	a	515	LYS	C-N-CA	7.97	136.05	121.70
1	S	515	LYS	CA-C-N	7.97	136.05	121.70
1	S	515	LYS	C-N-CA	7.97	136.05	121.70
1	U	515	LYS	CA-C-N	7.97	136.05	121.70
1	U	515	LYS	C-N-CA	7.97	136.05	121.70
1	2	515	LYS	CA-C-N	7.97	136.05	121.70
1	2	515	LYS	C-N-CA	7.97	136.05	121.70
1	r	515	LYS	CA-C-N	7.97	136.05	121.70
1	r	515	LYS	C-N-CA	7.97	136.05	121.70
1	j	515	LYS	CA-C-N	7.96	136.04	121.70
1	j	515	LYS	C-N-CA	7.96	136.04	121.70
1	m	515	LYS	CA-C-N	7.96	136.04	121.70
1	m	515	LYS	C-N-CA	7.96	136.04	121.70
1	O	515	LYS	CA-C-N	7.96	136.03	121.70
1	O	515	LYS	C-N-CA	7.96	136.03	121.70
1	R	515	LYS	CA-C-N	7.96	136.03	121.70
1	R	515	LYS	C-N-CA	7.96	136.03	121.70
1	Z	515	LYS	CA-C-N	7.96	136.03	121.70
1	Z	515	LYS	C-N-CA	7.96	136.03	121.70
1	7	515	LYS	CA-C-N	7.96	136.03	121.70
1	7	515	LYS	C-N-CA	7.96	136.03	121.70
1	B	515	LYS	CA-C-N	7.96	136.03	121.70
1	B	515	LYS	C-N-CA	7.96	136.03	121.70
1	D	515	LYS	CA-C-N	7.96	136.03	121.70
1	D	515	LYS	C-N-CA	7.96	136.03	121.70
1	F	515	LYS	CA-C-N	7.96	136.03	121.70
1	F	515	LYS	C-N-CA	7.96	136.03	121.70
1	Q	515	LYS	CA-C-N	7.96	136.03	121.70
1	Q	515	LYS	C-N-CA	7.96	136.03	121.70
1	V	515	LYS	CA-C-N	7.96	136.03	121.70
1	V	515	LYS	C-N-CA	7.96	136.03	121.70
1	Y	515	LYS	CA-C-N	7.96	136.03	121.70
1	Y	515	LYS	C-N-CA	7.96	136.03	121.70
1	K	515	LYS	CA-C-N	7.96	136.03	121.70
1	K	515	LYS	C-N-CA	7.96	136.03	121.70
1	P	515	LYS	CA-C-N	7.96	136.03	121.70
1	P	515	LYS	C-N-CA	7.96	136.03	121.70
1	f	515	LYS	CA-C-N	7.96	136.03	121.70
1	f	515	LYS	C-N-CA	7.96	136.03	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	515	LYS	CA-C-N	7.96	136.03	121.70
1	p	515	LYS	C-N-CA	7.96	136.03	121.70
1	u	515	LYS	CA-C-N	7.96	136.03	121.70
1	u	515	LYS	C-N-CA	7.96	136.03	121.70
1	A	515	LYS	CA-C-N	7.96	136.02	121.70
1	A	515	LYS	C-N-CA	7.96	136.02	121.70
1	G	515	LYS	CA-C-N	7.96	136.02	121.70
1	G	515	LYS	C-N-CA	7.96	136.02	121.70
1	h	515	LYS	CA-C-N	7.96	136.02	121.70
1	h	515	LYS	C-N-CA	7.96	136.02	121.70
1	N	515	LYS	CA-C-N	7.95	136.01	121.70
1	N	515	LYS	C-N-CA	7.95	136.01	121.70
1	4	515	LYS	CA-C-N	7.95	136.01	121.70
1	4	515	LYS	C-N-CA	7.95	136.01	121.70
1	5	515	LYS	CA-C-N	7.95	136.01	121.70
1	5	515	LYS	C-N-CA	7.95	136.01	121.70
1	e	515	LYS	CA-C-N	7.95	136.01	121.70
1	e	515	LYS	C-N-CA	7.95	136.01	121.70
1	i	515	LYS	CA-C-N	7.95	136.01	121.70
1	i	515	LYS	C-N-CA	7.95	136.01	121.70
1	l	515	LYS	CA-C-N	7.95	136.01	121.70
1	l	515	LYS	C-N-CA	7.95	136.01	121.70
1	n	515	LYS	CA-C-N	7.95	136.01	121.70
1	n	515	LYS	C-N-CA	7.95	136.01	121.70
1	t	515	LYS	CA-C-N	7.95	136.01	121.70
1	t	515	LYS	C-N-CA	7.95	136.01	121.70
1	8	515	LYS	CA-C-N	7.95	136.01	121.70
1	8	515	LYS	C-N-CA	7.95	136.01	121.70
1	X	515	LYS	CA-C-N	7.95	136.01	121.70
1	X	515	LYS	C-N-CA	7.95	136.01	121.70
1	z	515	LYS	CA-C-N	7.95	136.00	121.70
1	z	515	LYS	C-N-CA	7.95	136.00	121.70
1	b	515	LYS	CA-C-N	7.94	135.99	121.70
1	b	515	LYS	C-N-CA	7.94	135.99	121.70
1	o	515	LYS	CA-C-N	7.94	135.99	121.70
1	o	515	LYS	C-N-CA	7.94	135.99	121.70
1	1	515	LYS	CA-C-N	7.94	135.99	121.70
1	1	515	LYS	C-N-CA	7.94	135.99	121.70
1	J	515	LYS	CA-C-N	7.94	135.99	121.70
1	J	515	LYS	C-N-CA	7.94	135.99	121.70
1	L	515	LYS	CA-C-N	7.94	135.99	121.70
1	L	515	LYS	C-N-CA	7.94	135.99	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	515	LYS	CA-C-N	7.94	135.99	121.70
1	T	515	LYS	C-N-CA	7.94	135.99	121.70
1	W	515	LYS	CA-C-N	7.94	135.99	121.70
1	W	515	LYS	C-N-CA	7.94	135.99	121.70
1	c	515	LYS	CA-C-N	7.94	135.99	121.70
1	c	515	LYS	C-N-CA	7.94	135.99	121.70
1	E	515	LYS	CA-C-N	7.93	135.98	121.70
1	E	515	LYS	C-N-CA	7.93	135.98	121.70
1	M	515	LYS	CA-C-N	7.93	135.98	121.70
1	M	515	LYS	C-N-CA	7.93	135.98	121.70
1	g	515	LYS	CA-C-N	7.93	135.98	121.70
1	g	515	LYS	C-N-CA	7.93	135.98	121.70
1	s	515	LYS	CA-C-N	7.93	135.98	121.70
1	s	515	LYS	C-N-CA	7.93	135.98	121.70
1	x	515	LYS	CA-C-N	7.93	135.98	121.70
1	x	515	LYS	C-N-CA	7.93	135.98	121.70
1	C	515	LYS	CA-C-N	7.93	135.97	121.70
1	C	515	LYS	C-N-CA	7.93	135.97	121.70
1	w	515	LYS	CA-C-N	7.93	135.97	121.70
1	w	515	LYS	C-N-CA	7.93	135.97	121.70
1	3	515	LYS	CA-C-N	7.92	135.96	121.70
1	3	515	LYS	C-N-CA	7.92	135.96	121.70
1	d	515	LYS	CA-C-N	7.92	135.96	121.70
1	d	515	LYS	C-N-CA	7.92	135.96	121.70
1	k	515	LYS	CA-C-N	7.92	135.96	121.70
1	k	515	LYS	C-N-CA	7.92	135.96	121.70
1	q	515	LYS	CA-C-N	7.92	135.96	121.70
1	q	515	LYS	C-N-CA	7.92	135.96	121.70
1	y	275	ASN	CA-C-N	5.05	130.80	121.70
1	y	275	ASN	C-N-CA	5.05	130.80	121.70
1	W	275	ASN	CA-C-N	5.05	130.78	121.70
1	W	275	ASN	C-N-CA	5.05	130.78	121.70
1	C	275	ASN	CA-C-N	5.04	130.77	121.70
1	C	275	ASN	C-N-CA	5.04	130.77	121.70
1	S	275	ASN	CA-C-N	5.04	130.77	121.70
1	S	275	ASN	C-N-CA	5.04	130.77	121.70
1	U	275	ASN	CA-C-N	5.04	130.77	121.70
1	U	275	ASN	C-N-CA	5.04	130.77	121.70
1	q	275	ASN	CA-C-N	5.04	130.77	121.70
1	q	275	ASN	C-N-CA	5.04	130.77	121.70
1	s	275	ASN	CA-C-N	5.04	130.77	121.70
1	s	275	ASN	C-N-CA	5.04	130.77	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	275	ASN	CA-C-N	5.04	130.77	121.70
1	i	275	ASN	C-N-CA	5.04	130.77	121.70
1	Y	275	ASN	CA-C-N	5.04	130.76	121.70
1	Y	275	ASN	C-N-CA	5.04	130.76	121.70
1	B	275	ASN	CA-C-N	5.03	130.76	121.70
1	B	275	ASN	C-N-CA	5.03	130.76	121.70
1	E	275	ASN	CA-C-N	5.03	130.76	121.70
1	E	275	ASN	C-N-CA	5.03	130.76	121.70
1	8	275	ASN	CA-C-N	5.03	130.76	121.70
1	8	275	ASN	C-N-CA	5.03	130.76	121.70
1	I	275	ASN	CA-C-N	5.03	130.75	121.70
1	I	275	ASN	C-N-CA	5.03	130.75	121.70
1	O	275	ASN	CA-C-N	5.03	130.75	121.70
1	O	275	ASN	C-N-CA	5.03	130.75	121.70
1	a	275	ASN	CA-C-N	5.03	130.75	121.70
1	a	275	ASN	C-N-CA	5.03	130.75	121.70
1	K	275	ASN	CA-C-N	5.02	130.74	121.70
1	K	275	ASN	C-N-CA	5.02	130.74	121.70
1	j	275	ASN	CA-C-N	5.02	130.74	121.70
1	j	275	ASN	C-N-CA	5.02	130.74	121.70
1	m	275	ASN	CA-C-N	5.02	130.74	121.70
1	m	275	ASN	C-N-CA	5.02	130.74	121.70
1	A	275	ASN	CA-C-N	5.02	130.74	121.70
1	A	275	ASN	C-N-CA	5.02	130.74	121.70
1	M	275	ASN	CA-C-N	5.02	130.73	121.70
1	M	275	ASN	C-N-CA	5.02	130.73	121.70
1	R	275	ASN	CA-C-N	5.02	130.74	121.70
1	R	275	ASN	C-N-CA	5.02	130.74	121.70
1	2	275	ASN	CA-C-N	5.02	130.74	121.70
1	2	275	ASN	C-N-CA	5.02	130.74	121.70
1	g	275	ASN	CA-C-N	5.02	130.74	121.70
1	g	275	ASN	C-N-CA	5.02	130.74	121.70
1	n	275	ASN	CA-C-N	5.02	130.74	121.70
1	n	275	ASN	C-N-CA	5.02	130.74	121.70
1	r	275	ASN	CA-C-N	5.02	130.74	121.70
1	r	275	ASN	C-N-CA	5.02	130.74	121.70
1	z	275	ASN	CA-C-N	5.02	130.74	121.70
1	z	275	ASN	C-N-CA	5.02	130.74	121.70
1	7	275	ASN	CA-C-N	5.02	130.74	121.70
1	7	275	ASN	C-N-CA	5.02	130.74	121.70
1	D	275	ASN	CA-C-N	5.02	130.73	121.70
1	D	275	ASN	C-N-CA	5.02	130.73	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	275	ASN	CA-C-N	5.02	130.73	121.70
1	Q	275	ASN	C-N-CA	5.02	130.73	121.70
1	V	275	ASN	CA-C-N	5.02	130.73	121.70
1	V	275	ASN	C-N-CA	5.02	130.73	121.70
1	1	275	ASN	CA-C-N	5.02	130.73	121.70
1	1	275	ASN	C-N-CA	5.02	130.73	121.70
1	3	275	ASN	CA-C-N	5.02	130.73	121.70
1	3	275	ASN	C-N-CA	5.02	130.73	121.70
1	5	275	ASN	CA-C-N	5.02	130.73	121.70
1	5	275	ASN	C-N-CA	5.02	130.73	121.70
1	b	275	ASN	CA-C-N	5.02	130.73	121.70
1	b	275	ASN	C-N-CA	5.02	130.73	121.70
1	d	275	ASN	CA-C-N	5.02	130.73	121.70
1	d	275	ASN	C-N-CA	5.02	130.73	121.70
1	h	275	ASN	CA-C-N	5.02	130.73	121.70
1	h	275	ASN	C-N-CA	5.02	130.73	121.70
1	k	275	ASN	CA-C-N	5.02	130.73	121.70
1	k	275	ASN	C-N-CA	5.02	130.73	121.70
1	p	275	ASN	CA-C-N	5.02	130.73	121.70
1	p	275	ASN	C-N-CA	5.02	130.73	121.70
1	v	275	ASN	CA-C-N	5.02	130.73	121.70
1	v	275	ASN	C-N-CA	5.02	130.73	121.70
1	H	275	ASN	CA-C-N	5.02	130.73	121.70
1	H	275	ASN	C-N-CA	5.02	130.73	121.70
1	4	275	ASN	CA-C-N	5.02	130.73	121.70
1	4	275	ASN	C-N-CA	5.02	130.73	121.70
1	e	275	ASN	CA-C-N	5.02	130.73	121.70
1	e	275	ASN	C-N-CA	5.02	130.73	121.70
1	t	275	ASN	CA-C-N	5.02	130.73	121.70
1	t	275	ASN	C-N-CA	5.02	130.73	121.70
1	P	275	ASN	CA-C-N	5.01	130.73	121.70
1	P	275	ASN	C-N-CA	5.01	130.73	121.70
1	J	275	ASN	CA-C-N	5.01	130.72	121.70
1	J	275	ASN	C-N-CA	5.01	130.72	121.70
1	l	275	ASN	CA-C-N	5.01	130.72	121.70
1	l	275	ASN	C-N-CA	5.01	130.72	121.70
1	G	275	ASN	CA-C-N	5.01	130.72	121.70
1	G	275	ASN	C-N-CA	5.01	130.72	121.70
1	X	275	ASN	CA-C-N	5.01	130.72	121.70
1	X	275	ASN	C-N-CA	5.01	130.72	121.70
1	Z	275	ASN	CA-C-N	5.01	130.72	121.70
1	Z	275	ASN	C-N-CA	5.01	130.72	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	275	ASN	CA-C-N	5.01	130.72	121.70
1	u	275	ASN	C-N-CA	5.01	130.72	121.70
1	6	275	ASN	CA-C-N	5.01	130.72	121.70
1	6	275	ASN	C-N-CA	5.01	130.72	121.70
1	c	275	ASN	CA-C-N	5.01	130.72	121.70
1	c	275	ASN	C-N-CA	5.01	130.72	121.70
1	f	275	ASN	CA-C-N	5.01	130.72	121.70
1	f	275	ASN	C-N-CA	5.01	130.72	121.70
1	o	275	ASN	CA-C-N	5.01	130.72	121.70
1	o	275	ASN	C-N-CA	5.01	130.72	121.70
1	w	275	ASN	CA-C-N	5.01	130.71	121.70
1	w	275	ASN	C-N-CA	5.01	130.71	121.70
1	x	275	ASN	CA-C-N	5.01	130.71	121.70
1	x	275	ASN	C-N-CA	5.01	130.71	121.70
1	F	275	ASN	CA-C-N	5.00	130.70	121.70
1	F	275	ASN	C-N-CA	5.00	130.70	121.70

There are no chirality outliers.

All (240) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	142	ASN	Peptide
1	1	327	ILE	Peptide
1	1	429	ILE	Peptide
1	1	517	GLY	Peptide
1	2	142	ASN	Peptide
1	2	327	ILE	Peptide
1	2	429	ILE	Peptide
1	2	517	GLY	Peptide
1	3	142	ASN	Peptide
1	3	327	ILE	Peptide
1	3	429	ILE	Peptide
1	3	517	GLY	Peptide
1	4	142	ASN	Peptide
1	4	327	ILE	Peptide
1	4	429	ILE	Peptide
1	4	517	GLY	Peptide
1	5	142	ASN	Peptide
1	5	327	ILE	Peptide
1	5	429	ILE	Peptide
1	5	517	GLY	Peptide
1	6	142	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	6	327	ILE	Peptide
1	6	429	ILE	Peptide
1	6	517	GLY	Peptide
1	7	142	ASN	Peptide
1	7	327	ILE	Peptide
1	7	429	ILE	Peptide
1	7	517	GLY	Peptide
1	8	142	ASN	Peptide
1	8	327	ILE	Peptide
1	8	429	ILE	Peptide
1	8	517	GLY	Peptide
1	A	142	ASN	Peptide
1	A	327	ILE	Peptide
1	A	429	ILE	Peptide
1	A	517	GLY	Peptide
1	B	142	ASN	Peptide
1	B	327	ILE	Peptide
1	B	429	ILE	Peptide
1	B	517	GLY	Peptide
1	C	142	ASN	Peptide
1	C	327	ILE	Peptide
1	C	429	ILE	Peptide
1	C	517	GLY	Peptide
1	D	142	ASN	Peptide
1	D	327	ILE	Peptide
1	D	429	ILE	Peptide
1	D	517	GLY	Peptide
1	E	142	ASN	Peptide
1	E	327	ILE	Peptide
1	E	429	ILE	Peptide
1	E	517	GLY	Peptide
1	F	142	ASN	Peptide
1	F	327	ILE	Peptide
1	F	429	ILE	Peptide
1	F	517	GLY	Peptide
1	G	142	ASN	Peptide
1	G	327	ILE	Peptide
1	G	429	ILE	Peptide
1	G	517	GLY	Peptide
1	H	142	ASN	Peptide
1	H	327	ILE	Peptide
1	H	429	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	H	517	GLY	Peptide
1	I	142	ASN	Peptide
1	I	327	ILE	Peptide
1	I	429	ILE	Peptide
1	I	517	GLY	Peptide
1	J	142	ASN	Peptide
1	J	327	ILE	Peptide
1	J	429	ILE	Peptide
1	J	517	GLY	Peptide
1	K	142	ASN	Peptide
1	K	327	ILE	Peptide
1	K	429	ILE	Peptide
1	K	517	GLY	Peptide
1	L	142	ASN	Peptide
1	L	327	ILE	Peptide
1	L	429	ILE	Peptide
1	L	517	GLY	Peptide
1	M	142	ASN	Peptide
1	M	327	ILE	Peptide
1	M	429	ILE	Peptide
1	M	517	GLY	Peptide
1	N	142	ASN	Peptide
1	N	327	ILE	Peptide
1	N	429	ILE	Peptide
1	N	517	GLY	Peptide
1	O	142	ASN	Peptide
1	O	327	ILE	Peptide
1	O	429	ILE	Peptide
1	O	517	GLY	Peptide
1	P	142	ASN	Peptide
1	P	327	ILE	Peptide
1	P	429	ILE	Peptide
1	P	517	GLY	Peptide
1	Q	142	ASN	Peptide
1	Q	327	ILE	Peptide
1	Q	429	ILE	Peptide
1	Q	517	GLY	Peptide
1	R	142	ASN	Peptide
1	R	327	ILE	Peptide
1	R	429	ILE	Peptide
1	R	517	GLY	Peptide
1	S	142	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	S	327	ILE	Peptide
1	S	429	ILE	Peptide
1	S	517	GLY	Peptide
1	T	142	ASN	Peptide
1	T	327	ILE	Peptide
1	T	429	ILE	Peptide
1	T	517	GLY	Peptide
1	U	142	ASN	Peptide
1	U	327	ILE	Peptide
1	U	429	ILE	Peptide
1	U	517	GLY	Peptide
1	V	142	ASN	Peptide
1	V	327	ILE	Peptide
1	V	429	ILE	Peptide
1	V	517	GLY	Peptide
1	W	142	ASN	Peptide
1	W	327	ILE	Peptide
1	W	429	ILE	Peptide
1	W	517	GLY	Peptide
1	X	142	ASN	Peptide
1	X	327	ILE	Peptide
1	X	429	ILE	Peptide
1	X	517	GLY	Peptide
1	Y	142	ASN	Peptide
1	Y	327	ILE	Peptide
1	Y	429	ILE	Peptide
1	Y	517	GLY	Peptide
1	Z	142	ASN	Peptide
1	Z	327	ILE	Peptide
1	Z	429	ILE	Peptide
1	Z	517	GLY	Peptide
1	a	142	ASN	Peptide
1	a	327	ILE	Peptide
1	a	429	ILE	Peptide
1	a	517	GLY	Peptide
1	b	142	ASN	Peptide
1	b	327	ILE	Peptide
1	b	429	ILE	Peptide
1	b	517	GLY	Peptide
1	c	142	ASN	Peptide
1	c	327	ILE	Peptide
1	c	429	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	c	517	GLY	Peptide
1	d	142	ASN	Peptide
1	d	327	ILE	Peptide
1	d	429	ILE	Peptide
1	d	517	GLY	Peptide
1	e	142	ASN	Peptide
1	e	327	ILE	Peptide
1	e	429	ILE	Peptide
1	e	517	GLY	Peptide
1	f	142	ASN	Peptide
1	f	327	ILE	Peptide
1	f	429	ILE	Peptide
1	f	517	GLY	Peptide
1	g	142	ASN	Peptide
1	g	327	ILE	Peptide
1	g	429	ILE	Peptide
1	g	517	GLY	Peptide
1	h	142	ASN	Peptide
1	h	327	ILE	Peptide
1	h	429	ILE	Peptide
1	h	517	GLY	Peptide
1	i	142	ASN	Peptide
1	i	327	ILE	Peptide
1	i	429	ILE	Peptide
1	i	517	GLY	Peptide
1	j	142	ASN	Peptide
1	j	327	ILE	Peptide
1	j	429	ILE	Peptide
1	j	517	GLY	Peptide
1	k	142	ASN	Peptide
1	k	327	ILE	Peptide
1	k	429	ILE	Peptide
1	k	517	GLY	Peptide
1	l	142	ASN	Peptide
1	l	327	ILE	Peptide
1	l	429	ILE	Peptide
1	l	517	GLY	Peptide
1	m	142	ASN	Peptide
1	m	327	ILE	Peptide
1	m	429	ILE	Peptide
1	m	517	GLY	Peptide
1	n	142	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	n	327	ILE	Peptide
1	n	429	ILE	Peptide
1	n	517	GLY	Peptide
1	o	142	ASN	Peptide
1	o	327	ILE	Peptide
1	o	429	ILE	Peptide
1	o	517	GLY	Peptide
1	p	142	ASN	Peptide
1	p	327	ILE	Peptide
1	p	429	ILE	Peptide
1	p	517	GLY	Peptide
1	q	142	ASN	Peptide
1	q	327	ILE	Peptide
1	q	429	ILE	Peptide
1	q	517	GLY	Peptide
1	r	142	ASN	Peptide
1	r	327	ILE	Peptide
1	r	429	ILE	Peptide
1	r	517	GLY	Peptide
1	s	142	ASN	Peptide
1	s	327	ILE	Peptide
1	s	429	ILE	Peptide
1	s	517	GLY	Peptide
1	t	142	ASN	Peptide
1	t	327	ILE	Peptide
1	t	429	ILE	Peptide
1	t	517	GLY	Peptide
1	u	142	ASN	Peptide
1	u	327	ILE	Peptide
1	u	429	ILE	Peptide
1	u	517	GLY	Peptide
1	v	142	ASN	Peptide
1	v	327	ILE	Peptide
1	v	429	ILE	Peptide
1	v	517	GLY	Peptide
1	w	142	ASN	Peptide
1	w	327	ILE	Peptide
1	w	429	ILE	Peptide
1	w	517	GLY	Peptide
1	x	142	ASN	Peptide
1	x	327	ILE	Peptide
1	x	429	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	x	517	GLY	Peptide
1	y	142	ASN	Peptide
1	y	327	ILE	Peptide
1	y	429	ILE	Peptide
1	y	517	GLY	Peptide
1	z	142	ASN	Peptide
1	z	327	ILE	Peptide
1	z	429	ILE	Peptide
1	z	517	GLY	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4039	0	3831	244	0
1	2	4039	0	3831	241	0
1	3	4039	0	3831	240	0
1	4	4039	0	3831	243	0
1	5	4039	0	3831	250	0
1	6	4039	0	3831	240	0
1	7	4039	0	3831	242	0
1	8	4039	0	3831	243	0
1	A	4039	0	3831	242	0
1	B	4039	0	3831	241	0
1	C	4039	0	3831	240	0
1	D	4039	0	3831	243	0
1	E	4039	0	3831	246	0
1	F	4039	0	3831	242	0
1	G	4039	0	3831	246	0
1	H	4039	0	3831	248	0
1	I	4039	0	3831	246	0
1	J	4039	0	3831	243	0
1	K	4039	0	3831	240	0
1	L	4039	0	3831	240	0
1	M	4039	0	3831	239	0
1	N	4039	0	3831	242	0
1	O	4039	0	3831	244	0
1	P	4039	0	3831	241	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Q	4039	0	3831	239	0
1	R	4039	0	3831	243	0
1	S	4039	0	3831	242	0
1	T	4039	0	3831	243	0
1	U	4039	0	3831	237	0
1	V	4039	0	3831	241	0
1	W	4039	0	3831	236	0
1	X	4039	0	3831	237	0
1	Y	4039	0	3831	243	0
1	Z	4039	0	3831	238	0
1	a	4039	0	3831	243	0
1	b	4039	0	3831	241	0
1	c	4039	0	3831	244	0
1	d	4039	0	3831	240	0
1	e	4039	0	3831	241	0
1	f	4039	0	3831	239	0
1	g	4039	0	3831	241	0
1	h	4039	0	3831	242	0
1	i	4039	0	3831	240	0
1	j	4039	0	3831	243	0
1	k	4039	0	3831	241	0
1	l	4039	0	3831	242	0
1	m	4039	0	3831	240	0
1	n	4039	0	3831	242	0
1	o	4039	0	3831	243	0
1	p	4039	0	3831	242	0
1	q	4039	0	3831	236	0
1	r	4039	0	3831	241	0
1	s	4039	0	3831	240	0
1	t	4039	0	3831	246	0
1	u	4039	0	3831	244	0
1	v	4039	0	3831	240	0
1	w	4039	0	3831	245	0
1	x	4039	0	3831	243	0
1	y	4039	0	3831	246	0
1	z	4039	0	3831	243	0
All	All	242340	0	229860	12247	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 26.

All (12247) 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:G:86:LYS:HE2	1:G:88:GLN:HE22	1.35	0.92
1:i:86:LYS:HE2	1:i:88:GLN:HE22	1.35	0.92
1:l:86:LYS:HE2	1:l:88:GLN:HE22	1.35	0.92
1:B:86:LYS:HE2	1:B:88:GLN:HE22	1.35	0.92
1:6:86:LYS:HE2	1:6:88:GLN:HE22	1.35	0.92
1:e:86:LYS:HE2	1:e:88:GLN:HE22	1.35	0.92
1:k:86:LYS:HE2	1:k:88:GLN:HE22	1.35	0.92
1:3:86:LYS:HE2	1:3:88:GLN:HE22	1.35	0.92
1:4:86:LYS:HE2	1:4:88:GLN:HE22	1.35	0.92
1:x:86:LYS:HE2	1:x:88:GLN:HE22	1.35	0.92
1:y:86:LYS:HE2	1:y:88:GLN:HE22	1.35	0.92
1:g:86:LYS:HE2	1:g:88:GLN:HE22	1.35	0.92
1:R:86:LYS:HE2	1:R:88:GLN:HE22	1.35	0.92
1:t:86:LYS:HE2	1:t:88:GLN:HE22	1.35	0.92
1:z:86:LYS:HE2	1:z:88:GLN:HE22	1.35	0.92
1:8:86:LYS:HE2	1:8:88:GLN:HE22	1.35	0.92
1:F:86:LYS:HE2	1:F:88:GLN:HE22	1.35	0.91
1:O:86:LYS:HE2	1:O:88:GLN:HE22	1.35	0.91
1:N:86:LYS:HE2	1:N:88:GLN:HE22	1.35	0.91
1:p:86:LYS:HE2	1:p:88:GLN:HE22	1.35	0.91
1:L:86:LYS:HE2	1:L:88:GLN:HE22	1.35	0.91
1:M:86:LYS:HE2	1:M:88:GLN:HE22	1.35	0.91
1:n:86:LYS:HE2	1:n:88:GLN:HE22	1.35	0.91
1:D:86:LYS:HE2	1:D:88:GLN:HE22	1.35	0.91
1:h:86:LYS:HE2	1:h:88:GLN:HE22	1.35	0.91
1:d:86:LYS:HE2	1:d:88:GLN:HE22	1.35	0.91
1:s:86:LYS:HE2	1:s:88:GLN:HE22	1.35	0.91
1:7:86:LYS:HE2	1:7:88:GLN:HE22	1.35	0.91
1:2:86:LYS:HE2	1:2:88:GLN:HE22	1.35	0.91
1:a:86:LYS:HE2	1:a:88:GLN:HE22	1.35	0.91
1:r:86:LYS:HE2	1:r:88:GLN:HE22	1.35	0.91
1:u:86:LYS:HE2	1:u:88:GLN:HE22	1.35	0.91
1:A:86:LYS:HE2	1:A:88:GLN:HE22	1.35	0.90
1:V:86:LYS:HE2	1:V:88:GLN:HE22	1.35	0.90
1:Y:86:LYS:HE2	1:Y:88:GLN:HE22	1.35	0.90
1:E:86:LYS:HE2	1:E:88:GLN:HE22	1.35	0.90
1:U:86:LYS:HE2	1:U:88:GLN:HE22	1.35	0.90
1:K:86:LYS:HE2	1:K:88:GLN:HE22	1.35	0.90
1:Z:86:LYS:HE2	1:Z:88:GLN:HE22	1.35	0.90
1:f:86:LYS:HE2	1:f:88:GLN:HE22	1.35	0.90
1:v:86:LYS:HE2	1:v:88:GLN:HE22	1.35	0.90
1:J:86:LYS:HE2	1:J:88:GLN:HE22	1.35	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:86:LYS:HE2	1:q:88:GLN:HE22	1.35	0.90
1:C:86:LYS:HE2	1:C:88:GLN:HE22	1.35	0.90
1:Q:86:LYS:HE2	1:Q:88:GLN:HE22	1.35	0.90
1:X:86:LYS:HE2	1:X:88:GLN:HE22	1.35	0.90
1:b:86:LYS:HE2	1:b:88:GLN:HE22	1.35	0.90
1:c:86:LYS:HE2	1:c:88:GLN:HE22	1.35	0.90
1:o:86:LYS:HE2	1:o:88:GLN:HE22	1.35	0.90
1:I:86:LYS:HE2	1:I:88:GLN:HE22	1.35	0.89
1:P:86:LYS:HE2	1:P:88:GLN:HE22	1.35	0.89
1:j:86:LYS:HE2	1:j:88:GLN:HE22	1.35	0.89
1:m:86:LYS:HE2	1:m:88:GLN:HE22	1.35	0.89
1:W:86:LYS:HE2	1:W:88:GLN:HE22	1.35	0.89
1:l:86:LYS:HE2	1:l:88:GLN:HE22	1.35	0.89
1:T:86:LYS:HE2	1:T:88:GLN:HE22	1.35	0.89
1:S:86:LYS:HE2	1:S:88:GLN:HE22	1.35	0.89
1:w:86:LYS:HE2	1:w:88:GLN:HE22	1.35	0.89
1:5:86:LYS:HE2	1:5:88:GLN:HE22	1.35	0.88
1:H:86:LYS:HE2	1:H:88:GLN:HE22	1.35	0.88
1:H:79:ILE:HG22	1:H:81:SER:H	1.39	0.88
1:5:79:ILE:HG22	1:5:81:SER:H	1.39	0.88
1:C:79:ILE:HG22	1:C:81:SER:H	1.39	0.87
1:n:79:ILE:HG22	1:n:81:SER:H	1.39	0.87
1:F:79:ILE:HG22	1:F:81:SER:H	1.39	0.87
1:N:79:ILE:HG22	1:N:81:SER:H	1.39	0.87
1:k:79:ILE:HG22	1:k:81:SER:H	1.40	0.87
1:q:79:ILE:HG22	1:q:81:SER:H	1.39	0.87
1:t:79:ILE:HG22	1:t:81:SER:H	1.39	0.87
1:V:79:ILE:HG22	1:V:81:SER:H	1.39	0.87
1:3:79:ILE:HG22	1:3:81:SER:H	1.40	0.87
1:P:79:ILE:HG22	1:P:81:SER:H	1.39	0.87
1:l:79:ILE:HG22	1:l:81:SER:H	1.39	0.87
1:o:79:ILE:HG22	1:o:81:SER:H	1.39	0.87
1:M:79:ILE:HG22	1:M:81:SER:H	1.39	0.87
1:X:79:ILE:HG22	1:X:81:SER:H	1.39	0.87
1:j:79:ILE:HG22	1:j:81:SER:H	1.40	0.87
1:T:79:ILE:HG22	1:T:81:SER:H	1.39	0.87
1:W:79:ILE:HG22	1:W:81:SER:H	1.39	0.87
1:m:79:ILE:HG22	1:m:81:SER:H	1.39	0.87
1:U:79:ILE:HG22	1:U:81:SER:H	1.39	0.87
1:Y:79:ILE:HG22	1:Y:81:SER:H	1.40	0.87
1:Z:79:ILE:HG22	1:Z:81:SER:H	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:79:ILE:HG22	1:s:81:SER:H	1.39	0.87
1:G:79:ILE:HG22	1:G:81:SER:H	1.39	0.86
1:6:79:ILE:HG22	1:6:81:SER:H	1.39	0.86
1:d:79:ILE:HG22	1:d:81:SER:H	1.39	0.86
1:J:79:ILE:HG22	1:J:81:SER:H	1.39	0.86
1:L:79:ILE:HG22	1:L:81:SER:H	1.39	0.86
1:a:79:ILE:HG22	1:a:81:SER:H	1.39	0.86
1:4:514:ASP:HB3	1:4:517:GLY:HA3	1.58	0.86
1:c:79:ILE:HG22	1:c:81:SER:H	1.39	0.86
1:h:79:ILE:HG22	1:h:81:SER:H	1.39	0.86
1:s:514:ASP:HB3	1:s:517:GLY:HA3	1.58	0.86
1:8:514:ASP:HB3	1:8:517:GLY:HA3	1.58	0.86
1:A:79:ILE:HG22	1:A:81:SER:H	1.39	0.86
1:M:514:ASP:HB3	1:M:517:GLY:HA3	1.58	0.86
1:i:79:ILE:HG22	1:i:81:SER:H	1.39	0.86
1:j:514:ASP:HB3	1:j:517:GLY:HA3	1.58	0.86
1:m:514:ASP:HB3	1:m:517:GLY:HA3	1.58	0.86
1:7:79:ILE:HG22	1:7:81:SER:H	1.39	0.86
1:d:514:ASP:HB3	1:d:517:GLY:HA3	1.58	0.86
1:l:79:ILE:HG22	1:l:81:SER:H	1.40	0.86
1:L:514:ASP:HB3	1:L:517:GLY:HA3	1.58	0.86
1:D:79:ILE:HG22	1:D:81:SER:H	1.39	0.86
1:p:79:ILE:HG22	1:p:81:SER:H	1.39	0.86
1:w:79:ILE:HG22	1:w:81:SER:H	1.39	0.86
1:6:514:ASP:HB3	1:6:517:GLY:HA3	1.58	0.86
1:G:514:ASP:HB3	1:G:517:GLY:HA3	1.58	0.85
1:O:79:ILE:HG22	1:O:81:SER:H	1.39	0.85
1:R:514:ASP:HB3	1:R:517:GLY:HA3	1.58	0.85
1:e:514:ASP:HB3	1:e:517:GLY:HA3	1.58	0.85
1:8:79:ILE:HG22	1:8:81:SER:H	1.39	0.85
1:B:508:ASN:ND2	1:B:513:VAL:O	2.10	0.85
1:B:514:ASP:HB3	1:B:517:GLY:HA3	1.58	0.85
1:M:508:ASN:ND2	1:M:513:VAL:O	2.10	0.85
1:Q:508:ASN:ND2	1:Q:513:VAL:O	2.10	0.85
1:S:79:ILE:HG22	1:S:81:SER:H	1.39	0.85
1:W:508:ASN:ND2	1:W:513:VAL:O	2.10	0.85
1:4:79:ILE:HG22	1:4:81:SER:H	1.39	0.85
1:4:508:ASN:ND2	1:4:513:VAL:O	2.10	0.85
1:e:508:ASN:ND2	1:e:513:VAL:O	2.10	0.85
1:s:508:ASN:ND2	1:s:513:VAL:O	2.10	0.85
1:v:508:ASN:ND2	1:v:513:VAL:O	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:79:ILE:HG22	1:y:81:SER:H	1.39	0.85
1:8:508:ASN:ND2	1:8:513:VAL:O	2.10	0.85
1:X:508:ASN:ND2	1:X:513:VAL:O	2.10	0.85
1:x:514:ASP:HB3	1:x:517:GLY:HA3	1.58	0.85
1:g:79:ILE:HG22	1:g:81:SER:H	1.39	0.85
1:v:79:ILE:HG22	1:v:81:SER:H	1.39	0.85
1:C:508:ASN:ND2	1:C:513:VAL:O	2.10	0.85
1:V:508:ASN:ND2	1:V:513:VAL:O	2.10	0.85
1:Y:508:ASN:ND2	1:Y:513:VAL:O	2.10	0.85
1:5:508:ASN:ND2	1:5:513:VAL:O	2.10	0.85
1:i:514:ASP:HB3	1:i:517:GLY:HA3	1.58	0.85
1:l:514:ASP:HB3	1:l:517:GLY:HA3	1.58	0.85
1:q:508:ASN:ND2	1:q:513:VAL:O	2.10	0.85
1:H:508:ASN:ND2	1:H:513:VAL:O	2.10	0.85
1:N:508:ASN:ND2	1:N:513:VAL:O	2.10	0.85
1:S:514:ASP:HB3	1:S:517:GLY:HA3	1.58	0.85
1:n:508:ASN:ND2	1:n:513:VAL:O	2.10	0.85
1:w:514:ASP:HB3	1:w:517:GLY:HA3	1.58	0.85
1:z:79:ILE:HG22	1:z:81:SER:H	1.39	0.85
1:C:514:ASP:HB3	1:C:517:GLY:HA3	1.58	0.85
1:H:514:ASP:HB3	1:H:517:GLY:HA3	1.58	0.85
1:Q:79:ILE:HG22	1:Q:81:SER:H	1.39	0.85
1:q:514:ASP:HB3	1:q:517:GLY:HA3	1.58	0.85
1:G:508:ASN:ND2	1:G:513:VAL:O	2.10	0.85
1:2:79:ILE:HG22	1:2:81:SER:H	1.39	0.85
1:5:514:ASP:HB3	1:5:517:GLY:HA3	1.58	0.85
1:6:508:ASN:ND2	1:6:513:VAL:O	2.10	0.85
1:f:79:ILE:HG22	1:f:81:SER:H	1.39	0.85
1:i:508:ASN:ND2	1:i:513:VAL:O	2.10	0.85
1:k:508:ASN:ND2	1:k:513:VAL:O	2.10	0.85
1:l:508:ASN:ND2	1:l:513:VAL:O	2.10	0.85
1:p:508:ASN:ND2	1:p:513:VAL:O	2.10	0.85
1:A:514:ASP:HB3	1:A:517:GLY:HA3	1.58	0.85
1:D:508:ASN:ND2	1:D:513:VAL:O	2.10	0.85
1:G:267:ARG:NH2	1:I:413:GLU:O	2.09	0.85
1:O:514:ASP:HB3	1:O:517:GLY:HA3	1.58	0.85
1:3:508:ASN:ND2	1:3:513:VAL:O	2.10	0.85
1:b:79:ILE:HG22	1:b:81:SER:H	1.39	0.85
1:t:514:ASP:HB3	1:t:517:GLY:HA3	1.58	0.85
1:F:514:ASP:HB3	1:F:517:GLY:HA3	1.58	0.85
1:I:79:ILE:HG22	1:I:81:SER:H	1.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:79:ILE:HG22	1:K:81:SER:H	1.39	0.85
1:U:514:ASP:HB3	1:U:517:GLY:HA3	1.58	0.85
1:Z:514:ASP:HB3	1:Z:517:GLY:HA3	1.58	0.85
1:a:514:ASP:HB3	1:a:517:GLY:HA3	1.58	0.85
1:7:514:ASP:HB3	1:7:517:GLY:HA3	1.58	0.85
1:I:514:ASP:HB3	1:I:517:GLY:HA3	1.58	0.84
1:J:508:ASN:ND2	1:J:513:VAL:O	2.10	0.84
1:Z:508:ASN:ND2	1:Z:513:VAL:O	2.10	0.84
1:r:79:ILE:HG22	1:r:81:SER:H	1.39	0.84
1:w:508:ASN:ND2	1:w:513:VAL:O	2.10	0.84
1:y:514:ASP:HB3	1:y:517:GLY:HA3	1.58	0.84
1:S:508:ASN:ND2	1:S:513:VAL:O	2.10	0.84
1:b:514:ASP:HB3	1:b:517:GLY:HA3	1.58	0.84
1:c:508:ASN:ND2	1:c:513:VAL:O	2.10	0.84
1:h:514:ASP:HB3	1:h:517:GLY:HA3	1.58	0.84
1:U:508:ASN:ND2	1:U:513:VAL:O	2.10	0.84
1:u:508:ASN:ND2	1:u:513:VAL:O	2.10	0.84
1:B:79:ILE:HG22	1:B:81:SER:H	1.40	0.84
1:E:508:ASN:ND2	1:E:513:VAL:O	2.10	0.84
1:1:508:ASN:ND2	1:1:513:VAL:O	2.10	0.84
1:d:508:ASN:ND2	1:d:513:VAL:O	2.10	0.84
1:A:508:ASN:ND2	1:A:513:VAL:O	2.10	0.84
1:P:508:ASN:ND2	1:P:513:VAL:O	2.10	0.84
1:T:508:ASN:ND2	1:T:513:VAL:O	2.10	0.84
1:e:79:ILE:HG22	1:e:81:SER:H	1.39	0.84
1:o:508:ASN:ND2	1:o:513:VAL:O	2.10	0.84
1:r:508:ASN:ND2	1:r:513:VAL:O	2.10	0.84
1:x:79:ILE:HG22	1:x:81:SER:H	1.39	0.84
1:L:508:ASN:ND2	1:L:513:VAL:O	2.10	0.84
1:a:508:ASN:ND2	1:a:513:VAL:O	2.10	0.84
1:y:508:ASN:ND2	1:y:513:VAL:O	2.10	0.84
1:z:508:ASN:ND2	1:z:513:VAL:O	2.10	0.84
1:2:508:ASN:ND2	1:2:513:VAL:O	2.10	0.84
1:g:508:ASN:ND2	1:g:513:VAL:O	2.10	0.84
1:g:514:ASP:HB3	1:g:517:GLY:HA3	1.58	0.84
1:z:514:ASP:HB3	1:z:517:GLY:HA3	1.58	0.84
1:R:79:ILE:HG22	1:R:81:SER:H	1.39	0.84
1:F:508:ASN:ND2	1:F:513:VAL:O	2.10	0.84
1:J:514:ASP:HB3	1:J:517:GLY:HA3	1.58	0.84
1:N:514:ASP:HB3	1:N:517:GLY:HA3	1.58	0.84
1:O:508:ASN:ND2	1:O:513:VAL:O	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:514:ASP:HB3	1:Q:517:GLY:HA3	1.58	0.84
1:c:514:ASP:HB3	1:c:517:GLY:HA3	1.58	0.84
1:r:514:ASP:HB3	1:r:517:GLY:HA3	1.58	0.84
1:u:79:ILE:HG22	1:u:81:SER:H	1.40	0.84
1:E:79:ILE:HG22	1:E:81:SER:H	1.40	0.84
1:I:508:ASN:ND2	1:I:513:VAL:O	2.10	0.84
1:v:514:ASP:HB3	1:v:517:GLY:HA3	1.58	0.84
1:2:514:ASP:HB3	1:2:517:GLY:HA3	1.58	0.83
1:j:508:ASN:ND2	1:j:513:VAL:O	2.10	0.83
1:n:514:ASP:HB3	1:n:517:GLY:HA3	1.58	0.83
1:t:508:ASN:ND2	1:t:513:VAL:O	2.10	0.83
1:H:507:ILE:HG23	1:H:508:ASN:H	1.43	0.83
1:W:514:ASP:HB3	1:W:517:GLY:HA3	1.58	0.83
1:X:514:ASP:HB3	1:X:517:GLY:HA3	1.58	0.83
1:1:514:ASP:HB3	1:1:517:GLY:HA3	1.58	0.83
1:b:508:ASN:ND2	1:b:513:VAL:O	2.10	0.83
1:f:514:ASP:HB3	1:f:517:GLY:HA3	1.58	0.83
1:K:514:ASP:HB3	1:K:517:GLY:HA3	1.58	0.83
1:T:514:ASP:HB3	1:T:517:GLY:HA3	1.58	0.83
1:W:507:ILE:HG23	1:W:508:ASN:H	1.44	0.83
1:h:507:ILE:HG23	1:h:508:ASN:H	1.44	0.83
1:m:508:ASN:ND2	1:m:513:VAL:O	2.10	0.83
1:o:514:ASP:HB3	1:o:517:GLY:HA3	1.58	0.83
1:p:514:ASP:HB3	1:p:517:GLY:HA3	1.58	0.83
1:D:514:ASP:HB3	1:D:517:GLY:HA3	1.58	0.83
1:G:273:ARG:NH1	1:I:351:GLU:OE2	2.11	0.83
1:K:508:ASN:ND2	1:K:513:VAL:O	2.10	0.83
1:X:507:ILE:HG23	1:X:508:ASN:H	1.44	0.83
1:Y:514:ASP:HB3	1:Y:517:GLY:HA3	1.58	0.83
1:w:507:ILE:HG23	1:w:508:ASN:H	1.44	0.83
1:x:508:ASN:ND2	1:x:513:VAL:O	2.10	0.83
1:7:507:ILE:HG23	1:7:508:ASN:H	1.44	0.83
1:K:507:ILE:HG23	1:K:508:ASN:H	1.44	0.83
1:L:507:ILE:HG23	1:L:508:ASN:H	1.44	0.83
1:S:507:ILE:HG23	1:S:508:ASN:H	1.44	0.83
1:5:507:ILE:HG23	1:5:508:ASN:H	1.44	0.83
1:d:507:ILE:HG23	1:d:508:ASN:H	1.44	0.83
1:f:507:ILE:HG23	1:f:508:ASN:H	1.44	0.83
1:f:508:ASN:ND2	1:f:513:VAL:O	2.10	0.83
1:O:507:ILE:HG23	1:O:508:ASN:H	1.44	0.83
1:P:514:ASP:HB3	1:P:517:GLY:HA3	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:507:ILE:HG23	1:y:508:ASN:H	1.44	0.83
1:E:514:ASP:HB3	1:E:517:GLY:HA3	1.58	0.83
1:N:507:ILE:HG23	1:N:508:ASN:H	1.44	0.83
1:R:508:ASN:ND2	1:R:513:VAL:O	2.10	0.83
1:V:514:ASP:HB3	1:V:517:GLY:HA3	1.58	0.83
1:i:507:ILE:HG23	1:i:508:ASN:H	1.44	0.83
1:7:508:ASN:ND2	1:7:513:VAL:O	2.10	0.83
1:3:514:ASP:HB3	1:3:517:GLY:HA3	1.58	0.83
1:h:508:ASN:ND2	1:h:513:VAL:O	2.10	0.83
1:n:507:ILE:HG23	1:n:508:ASN:H	1.44	0.83
1:u:514:ASP:HB3	1:u:517:GLY:HA3	1.58	0.83
1:k:507:ILE:HG23	1:k:508:ASN:H	1.44	0.83
1:k:514:ASP:HB3	1:k:517:GLY:HA3	1.58	0.83
1:1:507:ILE:HG23	1:1:508:ASN:H	1.44	0.83
1:3:507:ILE:HG23	1:3:508:ASN:H	1.44	0.83
1:l:507:ILE:HG23	1:l:508:ASN:H	1.44	0.83
1:I:507:ILE:HG23	1:I:508:ASN:H	1.44	0.82
1:M:507:ILE:HG23	1:M:508:ASN:H	1.44	0.82
1:T:507:ILE:HG23	1:T:508:ASN:H	1.44	0.82
1:U:507:ILE:HG23	1:U:508:ASN:H	1.44	0.82
1:b:507:ILE:HG23	1:b:508:ASN:H	1.44	0.82
1:u:69:ASN:OD1	1:u:190:GLN:NE2	2.13	0.82
1:E:69:ASN:OD1	1:E:190:GLN:NE2	2.13	0.82
1:Z:507:ILE:HG23	1:Z:508:ASN:H	1.44	0.82
1:3:69:ASN:OD1	1:3:190:GLN:NE2	2.13	0.82
1:k:69:ASN:OD1	1:k:190:GLN:NE2	2.13	0.82
1:s:507:ILE:HG23	1:s:508:ASN:H	1.44	0.82
1:N:69:ASN:OD1	1:N:190:GLN:NE2	2.13	0.82
1:R:507:ILE:HG23	1:R:508:ASN:H	1.44	0.82
1:e:507:ILE:HG23	1:e:508:ASN:H	1.44	0.82
1:n:69:ASN:OD1	1:n:190:GLN:NE2	2.13	0.82
1:O:69:ASN:OD1	1:O:190:GLN:NE2	2.13	0.82
1:5:69:ASN:OD1	1:5:190:GLN:NE2	2.13	0.82
1:h:69:ASN:OD1	1:h:190:GLN:NE2	2.13	0.82
1:m:507:ILE:HG23	1:m:508:ASN:H	1.44	0.82
1:7:69:ASN:OD1	1:7:190:GLN:NE2	2.13	0.82
1:B:507:ILE:HG23	1:B:508:ASN:H	1.44	0.82
1:F:507:ILE:HG23	1:F:508:ASN:H	1.44	0.82
1:H:69:ASN:OD1	1:H:190:GLN:NE2	2.13	0.82
1:L:69:ASN:OD1	1:L:190:GLN:NE2	2.13	0.82
1:P:69:ASN:OD1	1:P:190:GLN:NE2	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:507:ILE:HG23	1:Q:508:ASN:H	1.44	0.82
1:Z:69:ASN:OD1	1:Z:190:GLN:NE2	2.13	0.82
1:m:69:ASN:OD1	1:m:190:GLN:NE2	2.13	0.82
1:o:69:ASN:OD1	1:o:190:GLN:NE2	2.13	0.82
1:y:69:ASN:OD1	1:y:190:GLN:NE2	2.13	0.82
1:Q:69:ASN:OD1	1:Q:190:GLN:NE2	2.13	0.82
1:U:69:ASN:OD1	1:U:190:GLN:NE2	2.13	0.82
1:d:69:ASN:OD1	1:d:190:GLN:NE2	2.13	0.82
1:g:69:ASN:OD1	1:g:190:GLN:NE2	2.13	0.82
1:j:69:ASN:OD1	1:j:190:GLN:NE2	2.13	0.82
1:t:507:ILE:HG23	1:t:508:ASN:H	1.44	0.82
1:v:69:ASN:OD1	1:v:190:GLN:NE2	2.13	0.82
1:x:507:ILE:HG23	1:x:508:ASN:H	1.44	0.82
1:J:507:ILE:HG23	1:J:508:ASN:H	1.44	0.82
1:M:69:ASN:OD1	1:M:190:GLN:NE2	2.13	0.82
1:j:507:ILE:HG23	1:j:508:ASN:H	1.44	0.82
1:v:507:ILE:HG23	1:v:508:ASN:H	1.44	0.82
1:z:69:ASN:OD1	1:z:190:GLN:NE2	2.13	0.82
1:R:69:ASN:OD1	1:R:190:GLN:NE2	2.13	0.82
1:2:69:ASN:OD1	1:2:190:GLN:NE2	2.13	0.82
1:r:69:ASN:OD1	1:r:190:GLN:NE2	2.13	0.82
1:s:69:ASN:OD1	1:s:190:GLN:NE2	2.13	0.82
1:x:69:ASN:OD1	1:x:190:GLN:NE2	2.13	0.82
1:S:69:ASN:OD1	1:S:190:GLN:NE2	2.13	0.82
1:X:69:ASN:OD1	1:X:190:GLN:NE2	2.13	0.82
1:6:69:ASN:OD1	1:6:190:GLN:NE2	2.13	0.82
1:g:507:ILE:HG23	1:g:508:ASN:H	1.44	0.82
1:D:69:ASN:OD1	1:D:190:GLN:NE2	2.13	0.81
1:F:69:ASN:OD1	1:F:190:GLN:NE2	2.13	0.81
1:F:413:GLU:O	1:Q:267:ARG:NH2	2.13	0.81
1:G:69:ASN:OD1	1:G:190:GLN:NE2	2.13	0.81
1:P:507:ILE:HG23	1:P:508:ASN:H	1.44	0.81
1:W:69:ASN:OD1	1:W:190:GLN:NE2	2.13	0.81
1:l:69:ASN:OD1	1:l:190:GLN:NE2	2.13	0.81
1:p:69:ASN:OD1	1:p:190:GLN:NE2	2.13	0.81
1:t:69:ASN:OD1	1:t:190:GLN:NE2	2.13	0.81
1:w:69:ASN:OD1	1:w:190:GLN:NE2	2.13	0.81
1:A:69:ASN:OD1	1:A:190:GLN:NE2	2.13	0.81
1:J:69:ASN:OD1	1:J:190:GLN:NE2	2.13	0.81
1:T:69:ASN:OD1	1:T:190:GLN:NE2	2.13	0.81
1:1:69:ASN:OD1	1:1:190:GLN:NE2	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:69:ASN:OD1	1:a:190:GLN:NE2	2.13	0.81
1:c:69:ASN:OD1	1:c:190:GLN:NE2	2.13	0.81
1:q:69:ASN:OD1	1:q:190:GLN:NE2	2.13	0.81
1:r:507:ILE:HG23	1:r:508:ASN:H	1.44	0.81
1:C:69:ASN:OD1	1:C:190:GLN:NE2	2.13	0.81
1:D:507:ILE:HG23	1:D:508:ASN:H	1.44	0.81
1:I:69:ASN:OD1	1:I:190:GLN:NE2	2.13	0.81
1:K:69:ASN:OD1	1:K:190:GLN:NE2	2.13	0.81
1:2:507:ILE:HG23	1:2:508:ASN:H	1.44	0.81
1:4:507:ILE:HG23	1:4:508:ASN:H	1.44	0.81
1:b:69:ASN:OD1	1:b:190:GLN:NE2	2.13	0.81
1:c:507:ILE:HG23	1:c:508:ASN:H	1.44	0.81
1:i:69:ASN:OD1	1:i:190:GLN:NE2	2.13	0.81
1:o:507:ILE:HG23	1:o:508:ASN:H	1.44	0.81
1:p:507:ILE:HG23	1:p:508:ASN:H	1.43	0.81
1:y:267:ARG:NH2	1:z:413:GLU:O	2.14	0.81
1:z:507:ILE:HG23	1:z:508:ASN:H	1.44	0.81
1:8:507:ILE:HG23	1:8:508:ASN:H	1.44	0.81
1:C:267:ARG:NH2	1:2:413:GLU:O	2.14	0.81
1:V:69:ASN:OD1	1:V:190:GLN:NE2	2.13	0.81
1:Y:69:ASN:OD1	1:Y:190:GLN:NE2	2.13	0.81
1:f:69:ASN:OD1	1:f:190:GLN:NE2	2.13	0.81
1:q:267:ARG:NH2	1:r:413:GLU:O	2.14	0.81
1:t:413:GLU:O	1:v:267:ARG:NH2	2.14	0.81
1:z:267:ARG:NH2	1:7:413:GLU:O	2.14	0.81
1:J:267:ARG:NH2	1:L:413:GLU:O	2.14	0.81
1:O:413:GLU:O	1:h:267:ARG:NH2	2.14	0.81
1:c:267:ARG:NH2	1:d:413:GLU:O	2.14	0.81
1:g:267:ARG:NH2	1:h:413:GLU:O	2.14	0.81
1:y:413:GLU:O	1:7:267:ARG:NH2	2.14	0.81
1:N:267:ARG:NH2	1:P:413:GLU:O	2.14	0.81
1:3:267:ARG:NH2	1:i:413:GLU:O	2.14	0.81
1:a:413:GLU:O	1:b:267:ARG:NH2	2.14	0.81
1:k:267:ARG:NH2	1:l:413:GLU:O	2.14	0.81
1:B:413:GLU:O	1:L:267:ARG:NH2	2.14	0.81
1:C:507:ILE:HG23	1:C:508:ASN:H	1.44	0.81
1:d:267:ARG:NH2	1:e:413:GLU:O	2.14	0.81
1:n:267:ARG:NH2	1:o:413:GLU:O	2.14	0.81
1:q:507:ILE:HG23	1:q:508:ASN:H	1.44	0.81
1:A:507:ILE:HG23	1:A:508:ASN:H	1.44	0.81
1:B:69:ASN:OD1	1:B:190:GLN:NE2	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:413:GLU:O	1:2:267:ARG:NH2	2.14	0.81
1:Y:507:ILE:HG23	1:Y:508:ASN:H	1.44	0.81
1:Z:267:ARG:NH2	1:x:413:GLU:O	2.14	0.81
1:e:69:ASN:OD1	1:e:190:GLN:NE2	2.13	0.81
1:r:267:ARG:NH2	1:s:413:GLU:O	2.14	0.81
1:G:507:ILE:HG23	1:G:508:ASN:H	1.43	0.81
1:R:413:GLU:O	1:U:267:ARG:NH2	2.14	0.81
1:6:507:ILE:HG23	1:6:508:ASN:H	1.44	0.81
1:B:267:ARG:NH2	1:J:413:GLU:O	2.14	0.80
1:H:413:GLU:O	1:Y:267:ARG:NH2	2.14	0.80
1:T:267:ARG:NH2	1:4:413:GLU:O	2.14	0.80
1:V:507:ILE:HG23	1:V:508:ASN:H	1.44	0.80
1:1:267:ARG:NH2	1:8:413:GLU:O	2.14	0.80
1:l:267:ARG:NH2	1:m:413:GLU:O	2.14	0.80
1:A:413:GLU:O	1:I:267:ARG:NH2	2.14	0.80
1:C:413:GLU:O	1:M:267:ARG:NH2	2.14	0.80
1:T:413:GLU:O	1:f:267:ARG:NH2	2.14	0.80
1:V:267:ARG:NH2	1:5:413:GLU:O	2.14	0.80
1:4:69:ASN:OD1	1:4:190:GLN:NE2	2.13	0.80
1:4:267:ARG:NH2	1:f:413:GLU:O	2.14	0.80
1:6:413:GLU:O	1:a:267:ARG:NH2	2.15	0.80
1:a:507:ILE:HG23	1:a:508:ASN:H	1.44	0.80
1:c:413:GLU:O	1:e:267:ARG:NH2	2.14	0.80
1:i:267:ARG:NH2	1:j:413:GLU:O	2.14	0.80
1:n:413:GLU:O	1:p:267:ARG:NH2	2.14	0.80
1:D:413:GLU:O	1:P:267:ARG:NH2	2.14	0.80
1:K:413:GLU:O	1:8:267:ARG:NH2	2.14	0.80
1:O:267:ARG:NH2	1:g:413:GLU:O	2.15	0.80
1:q:413:GLU:O	1:s:267:ARG:NH2	2.14	0.80
1:8:69:ASN:OD1	1:8:190:GLN:NE2	2.13	0.80
1:D:267:ARG:NH2	1:N:413:GLU:O	2.14	0.80
1:H:267:ARG:NH2	1:W:413:GLU:O	2.14	0.80
1:K:267:ARG:NH2	1:1:413:GLU:O	2.14	0.80
1:k:413:GLU:O	1:m:267:ARG:NH2	2.14	0.80
1:R:267:ARG:NH2	1:S:413:GLU:O	2.14	0.80
1:3:413:GLU:O	1:j:267:ARG:NH2	2.14	0.80
1:7:76:GLU:OE2	1:7:92:SER:OG	2.00	0.80
1:I:76:GLU:OE2	1:I:92:SER:OG	2.00	0.80
1:b:76:GLU:OE2	1:b:92:SER:OG	2.00	0.80
1:h:76:GLU:OE2	1:h:92:SER:OG	2.00	0.80
1:n:76:GLU:OE2	1:n:92:SER:OG	2.00	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:267:ARG:NH2	1:p:413:GLU:O	2.14	0.80
1:w:413:GLU:O	1:x:267:ARG:NH2	2.14	0.80
1:N:76:GLU:OE2	1:N:92:SER:OG	2.00	0.80
1:X:413:GLU:O	1:5:267:ARG:NH2	2.14	0.80
1:A:267:ARG:NH2	1:G:413:GLU:O	2.15	0.80
1:w:76:GLU:OE2	1:w:92:SER:OG	2.00	0.80
1:D:76:GLU:OE2	1:D:92:SER:OG	2.00	0.80
1:E:507:ILE:HG23	1:E:508:ASN:H	1.44	0.80
1:K:76:GLU:OE2	1:K:92:SER:OG	2.00	0.80
1:S:76:GLU:OE2	1:S:92:SER:OG	2.00	0.80
1:Z:413:GLU:O	1:w:267:ARG:NH2	2.14	0.80
1:6:267:ARG:NH2	1:b:413:GLU:O	2.14	0.80
1:p:76:GLU:OE2	1:p:92:SER:OG	2.00	0.80
1:V:413:GLU:O	1:X:267:ARG:NH2	2.14	0.79
1:Z:76:GLU:OE2	1:Z:92:SER:OG	2.00	0.79
1:f:76:GLU:OE2	1:f:92:SER:OG	2.00	0.79
1:A:76:GLU:OE2	1:A:92:SER:OG	2.00	0.79
1:S:267:ARG:NH2	1:U:413:GLU:O	2.14	0.79
1:x:76:GLU:OE2	1:x:92:SER:OG	2.00	0.79
1:C:76:GLU:OE2	1:C:92:SER:OG	2.00	0.79
1:E:267:ARG:NH2	1:Q:413:GLU:O	2.14	0.79
1:O:76:GLU:OE2	1:O:92:SER:OG	2.00	0.79
1:U:76:GLU:OE2	1:U:92:SER:OG	2.00	0.79
1:W:267:ARG:NH2	1:Y:413:GLU:O	2.14	0.79
1:5:76:GLU:OE2	1:5:92:SER:OG	2.00	0.79
1:u:507:ILE:HG23	1:u:508:ASN:H	1.44	0.79
1:z:76:GLU:OE2	1:z:92:SER:OG	2.00	0.79
1:O:273:ARG:NH1	1:g:351:GLU:OE2	2.16	0.79
1:R:76:GLU:OE2	1:R:92:SER:OG	2.00	0.79
1:6:76:GLU:OE2	1:6:92:SER:OG	2.00	0.79
1:a:76:GLU:OE2	1:a:92:SER:OG	2.00	0.79
1:g:76:GLU:OE2	1:g:92:SER:OG	2.00	0.79
1:u:267:ARG:NH2	1:v:413:GLU:O	2.14	0.79
1:y:76:GLU:OE2	1:y:92:SER:OG	2.00	0.79
1:G:76:GLU:OE2	1:G:92:SER:OG	2.00	0.79
1:6:351:GLU:OE2	1:a:273:ARG:NH1	2.16	0.79
1:q:76:GLU:OE2	1:q:92:SER:OG	2.00	0.79
1:H:76:GLU:OE2	1:H:92:SER:OG	2.00	0.79
1:4:76:GLU:OE2	1:4:92:SER:OG	2.00	0.79
1:l:76:GLU:OE2	1:l:92:SER:OG	2.00	0.79
1:t:267:ARG:NH2	1:u:413:GLU:O	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:76:GLU:OE2	1:8:92:SER:OG	2.00	0.79
1:i:76:GLU:OE2	1:i:92:SER:OG	2.00	0.79
1:e:76:GLU:OE2	1:e:92:SER:OG	2.00	0.79
1:E:413:GLU:O	1:F:267:ARG:NH2	2.14	0.79
1:c:76:GLU:OE2	1:c:92:SER:OG	2.00	0.79
1:B:76:GLU:OE2	1:B:92:SER:OG	2.00	0.78
1:T:76:GLU:OE2	1:T:92:SER:OG	2.00	0.78
1:l:76:GLU:OE2	1:l:92:SER:OG	2.00	0.78
1:j:76:GLU:OE2	1:j:92:SER:OG	2.00	0.78
1:C:351:GLU:OE2	1:M:273:ARG:NH1	2.17	0.78
1:K:351:GLU:OE2	1:8:273:ARG:NH1	2.17	0.78
1:M:351:GLU:OE2	1:2:273:ARG:NH1	2.17	0.78
1:Q:76:GLU:OE2	1:Q:92:SER:OG	2.00	0.78
1:4:273:ARG:NH1	1:f:351:GLU:OE2	2.17	0.78
1:m:76:GLU:OE2	1:m:92:SER:OG	2.00	0.78
1:r:273:ARG:NH1	1:s:351:GLU:OE2	2.17	0.78
1:A:273:ARG:NH1	1:G:351:GLU:OE2	2.17	0.78
1:E:351:GLU:OE2	1:F:273:ARG:NH1	2.16	0.78
1:H:275:ASN:HB3	1:H:276:GLY:HA3	1.66	0.78
1:P:76:GLU:OE2	1:P:92:SER:OG	2.00	0.78
1:3:76:GLU:OE2	1:3:92:SER:OG	2.00	0.78
1:5:275:ASN:HB3	1:5:276:GLY:HA3	1.66	0.78
1:q:351:GLU:OE2	1:s:273:ARG:NH1	2.17	0.78
1:r:76:GLU:OE2	1:r:92:SER:OG	2.00	0.78
1:x:275:ASN:HB3	1:x:276:GLY:HA3	1.66	0.78
1:B:273:ARG:NH1	1:J:351:GLU:OE2	2.17	0.78
1:B:351:GLU:OE2	1:L:273:ARG:NH1	2.17	0.78
1:D:351:GLU:OE2	1:P:273:ARG:NH1	2.17	0.78
1:R:351:GLU:OE2	1:U:273:ARG:NH1	2.17	0.78
1:2:76:GLU:OE2	1:2:92:SER:OG	2.00	0.78
1:3:351:GLU:OE2	1:j:273:ARG:NH1	2.17	0.78
1:d:273:ARG:NH1	1:e:351:GLU:OE2	2.17	0.78
1:g:275:ASN:HB3	1:g:276:GLY:HA3	1.66	0.78
1:n:273:ARG:NH1	1:o:351:GLU:OE2	2.17	0.78
1:v:76:GLU:OE2	1:v:92:SER:OG	2.00	0.78
1:z:273:ARG:NH1	1:7:351:GLU:OE2	2.17	0.78
1:z:275:ASN:HB3	1:z:276:GLY:HA3	1.66	0.78
1:A:351:GLU:OE2	1:I:273:ARG:NH1	2.16	0.78
1:D:273:ARG:NH1	1:N:351:GLU:OE2	2.17	0.78
1:I:275:ASN:HB3	1:I:276:GLY:HA3	1.66	0.78
1:R:275:ASN:HB3	1:R:276:GLY:HA3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:273:ARG:NH1	1:x:351:GLU:OE2	2.17	0.78
1:b:275:ASN:HB3	1:b:276:GLY:HA3	1.66	0.78
1:c:351:GLU:OE2	1:e:273:ARG:NH1	2.17	0.78
1:h:275:ASN:HB3	1:h:276:GLY:HA3	1.66	0.78
1:k:351:GLU:OE2	1:m:273:ARG:NH1	2.17	0.78
1:o:76:GLU:OE2	1:o:92:SER:OG	2.00	0.78
1:o:273:ARG:NH1	1:p:351:GLU:OE2	2.17	0.78
1:t:273:ARG:NH1	1:u:351:GLU:OE2	2.17	0.78
1:7:275:ASN:HB3	1:7:276:GLY:HA3	1.66	0.78
1:M:275:ASN:HB3	1:M:276:GLY:HA3	1.66	0.78
1:V:273:ARG:NH1	1:5:351:GLU:OE2	2.17	0.78
1:X:76:GLU:OE2	1:X:92:SER:OG	2.00	0.78
1:g:273:ARG:NH1	1:h:351:GLU:OE2	2.17	0.78
1:i:275:ASN:HB3	1:i:276:GLY:HA3	1.66	0.78
1:k:76:GLU:OE2	1:k:92:SER:OG	2.00	0.78
1:l:275:ASN:HB3	1:l:276:GLY:HA3	1.66	0.78
1:y:273:ARG:NH1	1:z:351:GLU:OE2	2.17	0.78
1:D:275:ASN:HB3	1:D:276:GLY:HA3	1.66	0.78
1:H:351:GLU:OE2	1:Y:273:ARG:NH1	2.17	0.78
1:S:273:ARG:NH1	1:U:351:GLU:OE2	2.17	0.78
1:T:131:ILE:HG12	1:T:472:VAL:HG12	1.66	0.78
1:T:275:ASN:HB3	1:T:276:GLY:HA3	1.66	0.78
1:W:76:GLU:OE2	1:W:92:SER:OG	2.00	0.78
1:W:273:ARG:NH1	1:Y:351:GLU:OE2	2.17	0.78
1:Z:351:GLU:OE2	1:w:273:ARG:NH1	2.17	0.78
1:1:275:ASN:HB3	1:1:276:GLY:HA3	1.66	0.78
1:6:273:ARG:NH1	1:b:351:GLU:OE2	2.17	0.78
1:s:275:ASN:HB3	1:s:276:GLY:HA3	1.66	0.78
1:E:273:ARG:NH1	1:Q:351:GLU:OE2	2.17	0.77
1:F:275:ASN:HB3	1:F:276:GLY:HA3	1.66	0.77
1:N:273:ARG:NH1	1:P:351:GLU:OE2	2.17	0.77
1:O:351:GLU:OE2	1:h:273:ARG:NH1	2.17	0.77
1:1:131:ILE:HG12	1:1:472:VAL:HG12	1.67	0.77
1:3:273:ARG:NH1	1:i:351:GLU:OE2	2.17	0.77
1:c:273:ARG:NH1	1:d:351:GLU:OE2	2.17	0.77
1:k:273:ARG:NH1	1:l:351:GLU:OE2	2.17	0.77
1:n:351:GLU:OE2	1:p:273:ARG:NH1	2.17	0.77
1:t:275:ASN:HB3	1:t:276:GLY:HA3	1.66	0.77
1:x:131:ILE:HG12	1:x:472:VAL:HG12	1.67	0.77
1:J:273:ARG:NH1	1:L:351:GLU:OE2	2.17	0.77
1:O:131:ILE:HG12	1:O:472:VAL:HG12	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:131:ILE:HG12	1:R:472:VAL:HG12	1.67	0.77
1:V:351:GLU:OE2	1:X:273:ARG:NH1	2.17	0.77
1:p:275:ASN:HB3	1:p:276:GLY:HA3	1.66	0.77
1:q:273:ARG:NH1	1:r:351:GLU:OE2	2.17	0.77
1:y:131:ILE:HG12	1:y:472:VAL:HG12	1.67	0.77
1:y:351:GLU:OE2	1:7:273:ARG:NH1	2.17	0.77
1:C:273:ARG:NH1	1:2:351:GLU:OE2	2.17	0.77
1:X:407:ARG:NH2	1:X:435:SER:O	2.18	0.77
1:c:131:ILE:HG12	1:c:472:VAL:HG12	1.66	0.77
1:q:407:ARG:NH2	1:q:435:SER:O	2.18	0.77
1:u:273:ARG:NH1	1:v:351:GLU:OE2	2.17	0.77
1:w:351:GLU:OE2	1:x:273:ARG:NH1	2.17	0.77
1:C:407:ARG:NH2	1:C:435:SER:O	2.18	0.77
1:G:495:THR:OG1	1:H:495:THR:OG1	2.02	0.77
1:J:131:ILE:HG12	1:J:472:VAL:HG12	1.66	0.77
1:K:275:ASN:HB3	1:K:276:GLY:HA3	1.66	0.77
1:Q:275:ASN:HB3	1:Q:276:GLY:HA3	1.66	0.77
1:R:273:ARG:NH1	1:S:351:GLU:OE2	2.17	0.77
1:T:351:GLU:OE2	1:f:273:ARG:NH1	2.17	0.77
1:W:407:ARG:NH2	1:W:435:SER:O	2.18	0.77
1:3:407:ARG:NH2	1:3:435:SER:O	2.18	0.77
1:a:351:GLU:OE2	1:b:273:ARG:NH1	2.17	0.77
1:k:407:ARG:NH2	1:k:435:SER:O	2.18	0.77
1:v:275:ASN:HB3	1:v:276:GLY:HA3	1.66	0.77
1:F:351:GLU:OE2	1:Q:273:ARG:NH1	2.17	0.77
1:W:275:ASN:HB3	1:W:276:GLY:HA3	1.66	0.77
1:Y:76:GLU:OE2	1:Y:92:SER:OG	2.00	0.77
1:d:76:GLU:OE2	1:d:92:SER:OG	2.00	0.77
1:e:131:ILE:HG12	1:e:472:VAL:HG12	1.67	0.77
1:q:275:ASN:HB3	1:q:276:GLY:HA3	1.66	0.77
1:r:131:ILE:HG12	1:r:472:VAL:HG12	1.67	0.77
1:t:351:GLU:OE2	1:v:273:ARG:NH1	2.17	0.77
1:A:131:ILE:HG12	1:A:472:VAL:HG12	1.67	0.77
1:B:131:ILE:HG12	1:B:472:VAL:HG12	1.67	0.77
1:L:76:GLU:OE2	1:L:92:SER:OG	2.00	0.77
1:U:131:ILE:HG12	1:U:472:VAL:HG12	1.67	0.77
1:X:275:ASN:HB3	1:X:276:GLY:HA3	1.66	0.77
1:2:131:ILE:HG12	1:2:472:VAL:HG12	1.67	0.77
1:a:131:ILE:HG12	1:a:472:VAL:HG12	1.67	0.77
1:f:275:ASN:HB3	1:f:276:GLY:HA3	1.66	0.77
1:l:273:ARG:NH1	1:m:351:GLU:OE2	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:495:THR:OG1	1:8:495:THR:OG1	2.03	0.77
1:E:407:ARG:NH2	1:E:435:SER:O	2.18	0.77
1:G:275:ASN:HB3	1:G:276:GLY:HA3	1.66	0.77
1:G:407:ARG:NH2	1:G:435:SER:O	2.18	0.77
1:K:273:ARG:NH1	1:1:351:GLU:OE2	2.17	0.77
1:L:131:ILE:HG12	1:L:472:VAL:HG12	1.66	0.77
1:L:275:ASN:HB3	1:L:276:GLY:HA3	1.66	0.77
1:M:407:ARG:NH2	1:M:435:SER:O	2.18	0.77
1:N:131:ILE:HG12	1:N:472:VAL:HG12	1.66	0.77
1:V:76:GLU:OE2	1:V:92:SER:OG	2.00	0.77
1:6:407:ARG:NH2	1:6:435:SER:O	2.18	0.77
1:d:131:ILE:HG12	1:d:472:VAL:HG12	1.66	0.77
1:m:131:ILE:HG12	1:m:472:VAL:HG12	1.66	0.77
1:s:407:ARG:NH2	1:s:435:SER:O	2.18	0.77
1:8:131:ILE:HG12	1:8:472:VAL:HG12	1.66	0.77
1:C:275:ASN:HB3	1:C:276:GLY:HA3	1.66	0.77
1:F:131:ILE:HG12	1:F:472:VAL:HG12	1.66	0.77
1:G:387:ASN:H	1:I:303:ALA:HB1	1.50	0.77
1:K:131:ILE:HG12	1:K:472:VAL:HG12	1.67	0.77
1:M:76:GLU:OE2	1:M:92:SER:OG	2.00	0.77
1:W:495:THR:OG1	1:X:495:THR:OG1	2.03	0.77
1:4:131:ILE:HG12	1:4:472:VAL:HG12	1.67	0.77
1:4:495:THR:OG1	1:h:495:THR:OG1	2.03	0.77
1:6:275:ASN:HB3	1:6:276:GLY:HA3	1.66	0.77
1:f:131:ILE:HG12	1:f:472:VAL:HG12	1.66	0.77
1:i:273:ARG:NH1	1:j:351:GLU:OE2	2.17	0.77
1:n:131:ILE:HG12	1:n:472:VAL:HG12	1.66	0.77
1:w:275:ASN:HB3	1:w:276:GLY:HA3	1.66	0.77
1:Z:131:ILE:HG12	1:Z:472:VAL:HG12	1.67	0.77
1:Z:275:ASN:HB3	1:Z:276:GLY:HA3	1.66	0.77
1:4:275:ASN:HB3	1:4:276:GLY:HA3	1.66	0.77
1:d:275:ASN:HB3	1:d:276:GLY:HA3	1.66	0.77
1:j:131:ILE:HG12	1:j:472:VAL:HG12	1.66	0.77
1:t:131:ILE:HG12	1:t:472:VAL:HG12	1.66	0.77
1:u:407:ARG:NH2	1:u:435:SER:O	2.18	0.77
1:B:75:THR:HG22	1:B:91:VAL:HG12	1.67	0.77
1:B:275:ASN:HB3	1:B:276:GLY:HA3	1.66	0.77
1:W:131:ILE:HG12	1:W:472:VAL:HG12	1.66	0.77
1:X:131:ILE:HG12	1:X:472:VAL:HG12	1.67	0.77
1:X:351:GLU:OE2	1:5:273:ARG:NH1	2.17	0.77
1:1:75:THR:HG22	1:1:91:VAL:HG12	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:75:THR:HG22	1:2:91:VAL:HG12	1.67	0.77
1:e:75:THR:HG22	1:e:91:VAL:HG12	1.67	0.77
1:n:407:ARG:NH2	1:n:435:SER:O	2.18	0.77
1:r:75:THR:HG22	1:r:91:VAL:HG12	1.67	0.77
1:E:275:ASN:HB3	1:E:276:GLY:HA3	1.66	0.76
1:H:273:ARG:NH1	1:W:351:GLU:OE2	2.17	0.76
1:J:407:ARG:NH2	1:J:435:SER:O	2.18	0.76
1:N:407:ARG:NH2	1:N:435:SER:O	2.18	0.76
1:P:407:ARG:NH2	1:P:435:SER:O	2.18	0.76
1:S:275:ASN:HB3	1:S:276:GLY:HA3	1.66	0.76
1:V:407:ARG:NH2	1:V:435:SER:O	2.18	0.76
1:Y:407:ARG:NH2	1:Y:435:SER:O	2.18	0.76
1:3:131:ILE:HG12	1:3:472:VAL:HG12	1.66	0.76
1:c:275:ASN:HB3	1:c:276:GLY:HA3	1.66	0.76
1:g:495:THR:OG1	1:l:495:THR:OG1	2.03	0.76
1:h:131:ILE:HG12	1:h:472:VAL:HG12	1.66	0.76
1:k:495:THR:OG1	1:r:495:THR:OG1	2.03	0.76
1:n:495:THR:OG1	1:y:495:THR:OG1	2.03	0.76
1:o:407:ARG:NH2	1:o:435:SER:O	2.18	0.76
1:s:76:GLU:OE2	1:s:92:SER:OG	2.00	0.76
1:u:76:GLU:OE2	1:u:92:SER:OG	2.00	0.76
1:w:75:THR:HG22	1:w:91:VAL:HG12	1.68	0.76
1:8:275:ASN:HB3	1:8:276:GLY:HA3	1.66	0.76
1:S:75:THR:HG22	1:S:91:VAL:HG12	1.68	0.76
1:T:75:THR:HG22	1:T:91:VAL:HG12	1.67	0.76
1:U:275:ASN:HB3	1:U:276:GLY:HA3	1.66	0.76
1:U:495:THR:OG1	1:V:495:THR:OG1	2.03	0.76
1:V:75:THR:HG22	1:V:91:VAL:HG12	1.67	0.76
1:Y:75:THR:HG22	1:Y:91:VAL:HG12	1.67	0.76
1:Y:495:THR:OG1	1:Z:495:THR:OG1	2.03	0.76
1:2:495:THR:OG1	1:3:495:THR:OG1	2.03	0.76
1:i:495:THR:OG1	1:z:495:THR:OG1	2.03	0.76
1:k:131:ILE:HG12	1:k:472:VAL:HG12	1.66	0.76
1:u:275:ASN:HB3	1:u:276:GLY:HA3	1.66	0.76
1:F:76:GLU:OE2	1:F:92:SER:OG	2.00	0.76
1:H:131:ILE:HG12	1:H:472:VAL:HG12	1.66	0.76
1:I:75:THR:HG22	1:I:91:VAL:HG12	1.67	0.76
1:M:131:ILE:HG12	1:M:472:VAL:HG12	1.67	0.76
1:U:407:ARG:NH2	1:U:435:SER:O	2.18	0.76
1:Z:407:ARG:NH2	1:Z:435:SER:O	2.18	0.76
1:1:273:ARG:NH1	1:8:351:GLU:OE2	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:495:THR:OG1	1:t:495:THR:OG1	2.04	0.76
1:c:407:ARG:NH2	1:c:435:SER:O	2.18	0.76
1:e:275:ASN:HB3	1:e:276:GLY:HA3	1.66	0.76
1:f:75:THR:HG22	1:f:91:VAL:HG12	1.67	0.76
1:k:75:THR:HG22	1:k:91:VAL:HG12	1.67	0.76
1:o:275:ASN:HB3	1:o:276:GLY:HA3	1.66	0.76
1:s:131:ILE:HG12	1:s:472:VAL:HG12	1.67	0.76
1:A:275:ASN:HB3	1:A:276:GLY:HA3	1.66	0.76
1:E:76:GLU:OE2	1:E:92:SER:OG	2.00	0.76
1:E:131:ILE:HG12	1:E:472:VAL:HG12	1.66	0.76
1:J:275:ASN:HB3	1:J:276:GLY:HA3	1.66	0.76
1:K:75:THR:HG22	1:K:91:VAL:HG12	1.67	0.76
1:N:75:THR:HG22	1:N:91:VAL:HG12	1.67	0.76
1:P:131:ILE:HG12	1:P:472:VAL:HG12	1.66	0.76
1:S:131:ILE:HG12	1:S:472:VAL:HG12	1.67	0.76
1:3:75:THR:HG22	1:3:91:VAL:HG12	1.67	0.76
1:5:131:ILE:HG12	1:5:472:VAL:HG12	1.67	0.76
1:b:75:THR:HG22	1:b:91:VAL:HG12	1.67	0.76
1:j:275:ASN:HB3	1:j:276:GLY:HA3	1.66	0.76
1:q:131:ILE:HG12	1:q:472:VAL:HG12	1.67	0.76
1:w:131:ILE:HG12	1:w:472:VAL:HG12	1.67	0.76
1:w:407:ARG:NH2	1:w:435:SER:O	2.18	0.76
1:7:131:ILE:HG12	1:7:472:VAL:HG12	1.66	0.76
1:A:495:THR:OG1	1:F:495:THR:OG1	2.04	0.76
1:C:131:ILE:HG12	1:C:472:VAL:HG12	1.67	0.76
1:P:275:ASN:HB3	1:P:276:GLY:HA3	1.66	0.76
1:R:407:ARG:NH2	1:R:435:SER:O	2.18	0.76
1:S:407:ARG:NH2	1:S:435:SER:O	2.18	0.76
1:T:273:ARG:NH1	1:4:351:GLU:OE2	2.17	0.76
1:T:407:ARG:NH2	1:T:435:SER:O	2.18	0.76
1:4:407:ARG:NH2	1:4:435:SER:O	2.18	0.76
1:6:75:THR:HG22	1:6:91:VAL:HG12	1.67	0.76
1:n:75:THR:HG22	1:n:91:VAL:HG12	1.68	0.76
1:o:131:ILE:HG12	1:o:472:VAL:HG12	1.66	0.76
1:t:76:GLU:OE2	1:t:92:SER:OG	2.00	0.76
1:u:131:ILE:HG12	1:u:472:VAL:HG12	1.66	0.76
1:G:75:THR:HG22	1:G:91:VAL:HG12	1.67	0.76
1:H:75:THR:HG22	1:H:91:VAL:HG12	1.67	0.76
1:J:75:THR:HG22	1:J:91:VAL:HG12	1.68	0.76
1:J:76:GLU:OE2	1:J:92:SER:OG	2.00	0.76
1:N:495:THR:OG1	1:O:495:THR:OG1	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:75:THR:HG22	1:5:91:VAL:HG12	1.67	0.76
1:a:275:ASN:HB3	1:a:276:GLY:HA3	1.66	0.76
1:b:131:ILE:HG12	1:b:472:VAL:HG12	1.67	0.76
1:c:75:THR:HG22	1:c:91:VAL:HG12	1.67	0.76
1:g:407:ARG:NH2	1:g:435:SER:O	2.18	0.76
1:v:407:ARG:NH2	1:v:435:SER:O	2.18	0.76
1:x:407:ARG:NH2	1:x:435:SER:O	2.18	0.76
1:z:407:ARG:NH2	1:z:435:SER:O	2.18	0.76
1:8:75:THR:HG22	1:8:91:VAL:HG12	1.67	0.76
1:I:131:ILE:HG12	1:I:472:VAL:HG12	1.67	0.76
1:Q:407:ARG:NH2	1:Q:435:SER:O	2.18	0.76
1:1:407:ARG:NH2	1:1:435:SER:O	2.18	0.76
1:f:407:ARG:NH2	1:f:435:SER:O	2.18	0.76
1:v:131:ILE:HG12	1:v:472:VAL:HG12	1.66	0.76
1:z:131:ILE:HG12	1:z:472:VAL:HG12	1.67	0.76
1:B:407:ARG:NH2	1:B:435:SER:O	2.18	0.76
1:K:407:ARG:NH2	1:K:435:SER:O	2.18	0.76
1:N:200:LEU:HD12	1:N:327:ILE:HG21	1.68	0.76
1:Z:75:THR:HG22	1:Z:91:VAL:HG12	1.67	0.76
1:4:75:THR:HG22	1:4:91:VAL:HG12	1.68	0.76
1:5:495:THR:OG1	1:6:495:THR:OG1	2.03	0.76
1:g:131:ILE:HG12	1:g:472:VAL:HG12	1.67	0.76
1:h:407:ARG:NH2	1:h:435:SER:O	2.18	0.76
1:j:495:THR:OG1	1:m:495:THR:OG1	2.03	0.76
1:l:407:ARG:NH2	1:l:435:SER:O	2.18	0.76
1:n:200:LEU:HD12	1:n:327:ILE:HG21	1.68	0.76
1:o:495:THR:OG1	1:u:495:THR:OG1	2.03	0.76
1:7:407:ARG:NH2	1:7:435:SER:O	2.18	0.76
1:8:407:ARG:NH2	1:8:435:SER:O	2.18	0.76
1:B:200:LEU:HD12	1:B:327:ILE:HG21	1.68	0.76
1:D:407:ARG:NH2	1:D:435:SER:O	2.18	0.76
1:E:495:THR:OG1	1:P:495:THR:OG1	2.03	0.76
1:Q:131:ILE:HG12	1:Q:472:VAL:HG12	1.66	0.76
1:d:407:ARG:NH2	1:d:435:SER:O	2.18	0.76
1:e:200:LEU:HD12	1:e:327:ILE:HG21	1.68	0.76
1:e:407:ARG:NH2	1:e:435:SER:O	2.18	0.76
1:f:200:LEU:HD12	1:f:327:ILE:HG21	1.68	0.76
1:k:275:ASN:HB3	1:k:276:GLY:HA3	1.66	0.76
1:m:275:ASN:HB3	1:m:276:GLY:HA3	1.66	0.76
1:A:200:LEU:HD12	1:A:327:ILE:HG21	1.68	0.76
1:F:407:ARG:NH2	1:F:435:SER:O	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:200:LEU:HD12	1:G:327:ILE:HG21	1.68	0.76
1:K:200:LEU:HD12	1:K:327:ILE:HG21	1.68	0.76
1:V:131:ILE:HG12	1:V:472:VAL:HG12	1.67	0.76
1:Y:131:ILE:HG12	1:Y:472:VAL:HG12	1.66	0.76
1:Z:200:LEU:HD12	1:Z:327:ILE:HG21	1.68	0.76
1:2:275:ASN:HB3	1:2:276:GLY:HA3	1.66	0.76
1:2:407:ARG:NH2	1:2:435:SER:O	2.18	0.76
1:a:200:LEU:HD12	1:a:327:ILE:HG21	1.68	0.76
1:a:407:ARG:NH2	1:a:435:SER:O	2.18	0.76
1:d:495:THR:OG1	1:q:495:THR:OG1	2.03	0.76
1:i:407:ARG:NH2	1:i:435:SER:O	2.18	0.76
1:p:407:ARG:NH2	1:p:435:SER:O	2.18	0.76
1:t:407:ARG:NH2	1:t:435:SER:O	2.18	0.76
1:w:200:LEU:HD12	1:w:327:ILE:HG21	1.68	0.76
1:A:407:ARG:NH2	1:A:435:SER:O	2.18	0.75
1:L:75:THR:HG22	1:L:91:VAL:HG12	1.67	0.75
1:L:407:ARG:NH2	1:L:435:SER:O	2.18	0.75
1:S:200:LEU:HD12	1:S:327:ILE:HG21	1.68	0.75
1:U:75:THR:HG22	1:U:91:VAL:HG12	1.67	0.75
1:U:200:LEU:HD12	1:U:327:ILE:HG21	1.68	0.75
1:6:200:LEU:HD12	1:6:327:ILE:HG21	1.68	0.75
1:l:75:THR:HG22	1:l:91:VAL:HG12	1.67	0.75
1:l:131:ILE:HG12	1:l:472:VAL:HG12	1.67	0.75
1:r:275:ASN:HB3	1:r:276:GLY:HA3	1.66	0.75
1:r:407:ARG:NH2	1:r:435:SER:O	2.18	0.75
1:C:495:THR:OG1	1:L:495:THR:OG1	2.03	0.75
1:P:200:LEU:HD12	1:P:327:ILE:HG21	1.68	0.75
1:3:275:ASN:HB3	1:3:276:GLY:HA3	1.66	0.75
1:d:75:THR:HG22	1:d:91:VAL:HG12	1.67	0.75
1:i:75:THR:HG22	1:i:91:VAL:HG12	1.68	0.75
1:m:407:ARG:NH2	1:m:435:SER:O	2.18	0.75
1:C:75:THR:HG22	1:C:91:VAL:HG12	1.67	0.75
1:O:407:ARG:NH2	1:O:435:SER:O	2.18	0.75
1:Q:495:THR:OG1	1:R:495:THR:OG1	2.03	0.75
1:i:131:ILE:HG12	1:i:472:VAL:HG12	1.67	0.75
1:j:407:ARG:NH2	1:j:435:SER:O	2.18	0.75
1:o:200:LEU:HD12	1:o:327:ILE:HG21	1.68	0.75
1:p:495:THR:OG1	1:s:495:THR:OG1	2.03	0.75
1:q:75:THR:HG22	1:q:91:VAL:HG12	1.67	0.75
1:v:495:THR:OG1	1:x:495:THR:OG1	2.03	0.75
1:D:200:LEU:HD12	1:D:327:ILE:HG21	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:495:THR:OG1	1:M:495:THR:OG1	2.03	0.75
1:H:407:ARG:NH2	1:H:435:SER:O	2.18	0.75
1:N:275:ASN:HB3	1:N:276:GLY:HA3	1.66	0.75
1:P:75:THR:HG22	1:P:91:VAL:HG12	1.67	0.75
1:B:495:THR:OG1	1:I:495:THR:OG1	2.03	0.75
1:J:495:THR:OG1	1:K:495:THR:OG1	2.03	0.75
1:5:407:ARG:NH2	1:5:435:SER:O	2.18	0.75
1:o:75:THR:HG22	1:o:91:VAL:HG12	1.67	0.75
1:p:200:LEU:HD12	1:p:327:ILE:HG21	1.68	0.75
1:y:407:ARG:NH2	1:y:435:SER:O	2.18	0.75
1:D:75:THR:HG22	1:D:91:VAL:HG12	1.67	0.75
1:G:131:ILE:HG12	1:G:472:VAL:HG12	1.66	0.75
1:I:407:ARG:NH2	1:I:435:SER:O	2.18	0.75
1:V:275:ASN:HB3	1:V:276:GLY:HA3	1.66	0.75
1:b:407:ARG:NH2	1:b:435:SER:O	2.18	0.75
1:b:495:THR:OG1	1:e:495:THR:OG1	2.03	0.75
1:Y:275:ASN:HB3	1:Y:276:GLY:HA3	1.66	0.75
1:6:131:ILE:HG12	1:6:472:VAL:HG12	1.67	0.75
1:c:495:THR:OG1	1:f:495:THR:OG1	2.03	0.75
1:n:275:ASN:HB3	1:n:276:GLY:HA3	1.66	0.75
1:p:131:ILE:HG12	1:p:472:VAL:HG12	1.66	0.75
1:D:131:ILE:HG12	1:D:472:VAL:HG12	1.66	0.75
1:S:495:THR:OG1	1:T:495:THR:OG1	2.03	0.75
1:h:200:LEU:HD12	1:h:327:ILE:HG21	1.68	0.75
1:v:200:LEU:HD12	1:v:327:ILE:HG21	1.68	0.75
1:l:495:THR:OG1	1:w:495:THR:OG1	2.03	0.75
1:p:75:THR:HG22	1:p:91:VAL:HG12	1.67	0.75
1:y:75:THR:HG22	1:y:91:VAL:HG12	1.67	0.75
1:O:275:ASN:HB3	1:O:276:GLY:HA3	1.66	0.74
1:Q:75:THR:HG22	1:Q:91:VAL:HG12	1.67	0.74
1:Q:200:LEU:HD12	1:Q:327:ILE:HG21	1.68	0.74
1:7:75:THR:HG22	1:7:91:VAL:HG12	1.67	0.74
1:7:200:LEU:HD12	1:7:327:ILE:HG21	1.68	0.74
1:F:75:THR:HG22	1:F:91:VAL:HG12	1.67	0.74
1:F:200:LEU:HD12	1:F:327:ILE:HG21	1.68	0.74
1:H:200:LEU:HD12	1:H:327:ILE:HG21	1.68	0.74
1:O:75:THR:HG22	1:O:91:VAL:HG12	1.67	0.74
1:O:200:LEU:HD12	1:O:327:ILE:HG21	1.68	0.74
1:j:75:THR:HG22	1:j:91:VAL:HG12	1.67	0.74
1:t:200:LEU:HD12	1:t:327:ILE:HG21	1.68	0.74
1:O:430:ASP:HB3	1:g:425:LYS:HE3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:200:LEU:HD12	1:W:327:ILE:HG21	1.68	0.74
1:3:425:LYS:HE3	1:j:430:ASP:HB3	1.69	0.74
1:5:200:LEU:HD12	1:5:327:ILE:HG21	1.68	0.74
1:m:75:THR:HG22	1:m:91:VAL:HG12	1.67	0.74
1:t:75:THR:HG22	1:t:91:VAL:HG12	1.67	0.74
1:v:75:THR:HG22	1:v:91:VAL:HG12	1.67	0.74
1:y:200:LEU:HD12	1:y:327:ILE:HG21	1.68	0.74
1:y:275:ASN:HB3	1:y:276:GLY:HA3	1.66	0.74
1:y:430:ASP:HB3	1:z:425:LYS:HE3	1.69	0.74
1:C:200:LEU:HD12	1:C:327:ILE:HG21	1.68	0.74
1:G:430:ASP:HB3	1:I:425:LYS:HE3	1.68	0.74
1:M:200:LEU:HD12	1:M:327:ILE:HG21	1.68	0.74
1:h:75:THR:HG22	1:h:91:VAL:HG12	1.67	0.74
1:o:430:ASP:HB3	1:p:425:LYS:HE3	1.69	0.74
1:q:200:LEU:HD12	1:q:327:ILE:HG21	1.68	0.74
1:s:200:LEU:HD12	1:s:327:ILE:HG21	1.68	0.74
1:D:425:LYS:HE3	1:P:430:ASP:HB3	1.70	0.74
1:K:425:LYS:HE3	1:8:430:ASP:HB3	1.70	0.74
1:W:430:ASP:HB3	1:Y:425:LYS:HE3	1.69	0.74
1:X:200:LEU:HD12	1:X:327:ILE:HG21	1.68	0.74
1:k:425:LYS:HE3	1:m:430:ASP:HB3	1.70	0.74
1:t:425:LYS:HE3	1:v:430:ASP:HB3	1.70	0.74
1:C:430:ASP:HB3	1:2:425:LYS:HE3	1.70	0.74
1:3:200:LEU:HD12	1:3:327:ILE:HG21	1.68	0.74
1:4:430:ASP:HB3	1:f:425:LYS:HE3	1.70	0.74
1:g:75:THR:HG22	1:g:91:VAL:HG12	1.67	0.74
1:k:200:LEU:HD12	1:k:327:ILE:HG21	1.68	0.74
1:A:75:THR:HG22	1:A:91:VAL:HG12	1.68	0.74
1:E:430:ASP:HB3	1:Q:425:LYS:HE3	1.70	0.74
1:q:430:ASP:HB3	1:r:425:LYS:HE3	1.70	0.74
1:u:430:ASP:HB3	1:v:425:LYS:HE3	1.70	0.74
1:x:75:THR:HG22	1:x:91:VAL:HG12	1.67	0.74
1:E:75:THR:HG22	1:E:91:VAL:HG12	1.67	0.74
1:V:425:LYS:HE3	1:X:430:ASP:HB3	1.70	0.74
1:a:75:THR:HG22	1:a:91:VAL:HG12	1.67	0.74
1:u:75:THR:HG22	1:u:91:VAL:HG12	1.67	0.74
1:z:430:ASP:HB3	1:7:425:LYS:HE3	1.70	0.74
1:R:75:THR:HG22	1:R:91:VAL:HG12	1.67	0.74
1:Y:200:LEU:HD12	1:Y:327:ILE:HG21	1.68	0.74
1:c:200:LEU:HD12	1:c:327:ILE:HG21	1.68	0.74
1:m:200:LEU:HD12	1:m:327:ILE:HG21	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:75:THR:HG22	1:z:91:VAL:HG12	1.67	0.74
1:J:200:LEU:HD12	1:J:327:ILE:HG21	1.68	0.74
1:V:200:LEU:HD12	1:V:327:ILE:HG21	1.68	0.74
1:g:430:ASP:HB3	1:h:425:LYS:HE3	1.70	0.74
1:j:200:LEU:HD12	1:j:327:ILE:HG21	1.68	0.74
1:F:425:LYS:HE3	1:Q:430:ASP:HB3	1.70	0.73
1:M:75:THR:HG22	1:M:91:VAL:HG12	1.67	0.73
1:T:200:LEU:HD12	1:T:327:ILE:HG21	1.68	0.73
1:1:200:LEU:HD12	1:1:327:ILE:HG21	1.68	0.73
1:4:200:LEU:HD12	1:4:327:ILE:HG21	1.68	0.73
1:a:425:LYS:HE3	1:b:430:ASP:HB3	1.69	0.73
1:l:200:LEU:HD12	1:l:327:ILE:HG21	1.68	0.73
1:s:75:THR:HG22	1:s:91:VAL:HG12	1.67	0.73
1:z:200:LEU:HD12	1:z:327:ILE:HG21	1.68	0.73
1:8:200:LEU:HD12	1:8:327:ILE:HG21	1.68	0.73
1:D:430:ASP:HB3	1:N:425:LYS:HE3	1.70	0.73
1:H:425:LYS:HE3	1:Y:430:ASP:HB3	1.69	0.73
1:R:200:LEU:HD12	1:R:327:ILE:HG21	1.68	0.73
1:V:430:ASP:HB3	1:5:425:LYS:HE3	1.70	0.73
1:6:430:ASP:HB3	1:b:425:LYS:HE3	1.70	0.73
1:n:425:LYS:HE3	1:p:430:ASP:HB3	1.70	0.73
1:u:200:LEU:HD12	1:u:327:ILE:HG21	1.68	0.73
1:x:200:LEU:HD12	1:x:327:ILE:HG21	1.68	0.73
1:I:200:LEU:HD12	1:I:327:ILE:HG21	1.68	0.73
1:M:425:LYS:HE3	1:2:430:ASP:HB3	1.70	0.73
1:N:430:ASP:HB3	1:P:425:LYS:HE3	1.70	0.73
1:2:200:LEU:HD12	1:2:327:ILE:HG21	1.68	0.73
1:b:200:LEU:HD12	1:b:327:ILE:HG21	1.68	0.73
1:g:200:LEU:HD12	1:g:327:ILE:HG21	1.68	0.73
1:i:200:LEU:HD12	1:i:327:ILE:HG21	1.68	0.73
1:r:200:LEU:HD12	1:r:327:ILE:HG21	1.68	0.73
1:A:425:LYS:HE3	1:I:430:ASP:HB3	1.70	0.73
1:X:75:THR:HG22	1:X:91:VAL:HG12	1.67	0.73
1:n:430:ASP:HB3	1:o:425:LYS:HE3	1.70	0.73
1:r:430:ASP:HB3	1:s:425:LYS:HE3	1.70	0.73
1:C:425:LYS:HE3	1:M:430:ASP:HB3	1.70	0.73
1:E:200:LEU:HD12	1:E:327:ILE:HG21	1.68	0.73
1:L:200:LEU:HD12	1:L:327:ILE:HG21	1.68	0.73
1:T:71:HIS:HA	1:T:94:PRO:HB3	1.71	0.73
1:W:75:THR:HG22	1:W:91:VAL:HG12	1.67	0.73
1:1:71:HIS:HA	1:1:94:PRO:HB3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:200:LEU:HD12	1:d:327:ILE:HG21	1.68	0.73
1:q:425:LYS:HE3	1:s:430:ASP:HB3	1.70	0.73
1:t:206:SER:HB3	1:t:207:ASN:HA	1.71	0.73
1:C:71:HIS:HA	1:C:94:PRO:HB3	1.71	0.73
1:G:71:HIS:HA	1:G:94:PRO:HB3	1.71	0.73
1:T:430:ASP:HB3	1:4:425:LYS:HE3	1.70	0.73
1:6:71:HIS:HA	1:6:94:PRO:HB3	1.71	0.73
1:6:425:LYS:HE3	1:a:430:ASP:HB3	1.70	0.73
1:q:71:HIS:HA	1:q:94:PRO:HB3	1.71	0.73
1:S:206:SER:HB3	1:S:207:ASN:HA	1.71	0.73
1:1:430:ASP:HB3	1:8:425:LYS:HE3	1.70	0.73
1:h:71:HIS:HA	1:h:94:PRO:HB3	1.71	0.73
1:w:206:SER:HB3	1:w:207:ASN:HA	1.71	0.73
1:B:71:HIS:HA	1:B:94:PRO:HB3	1.71	0.73
1:F:206:SER:HB3	1:F:207:ASN:HA	1.71	0.73
1:3:206:SER:HB3	1:3:207:ASN:HA	1.71	0.73
1:e:71:HIS:HA	1:e:94:PRO:HB3	1.71	0.73
1:f:71:HIS:HA	1:f:94:PRO:HB3	1.71	0.73
1:k:206:SER:HB3	1:k:207:ASN:HA	1.71	0.73
1:K:71:HIS:HA	1:K:94:PRO:HB3	1.71	0.73
1:W:387:ASN:H	1:Y:303:ALA:HB1	1.54	0.73
1:Z:425:LYS:HE3	1:w:430:ASP:HB3	1.70	0.73
1:c:71:HIS:HA	1:c:94:PRO:HB3	1.71	0.73
1:m:71:HIS:HA	1:m:94:PRO:HB3	1.71	0.73
1:7:71:HIS:HA	1:7:94:PRO:HB3	1.71	0.73
1:J:71:HIS:HA	1:J:94:PRO:HB3	1.71	0.72
1:R:425:LYS:HE3	1:U:430:ASP:HB3	1.70	0.72
1:S:430:ASP:HB3	1:U:425:LYS:HE3	1.70	0.72
1:V:206:SER:HB3	1:V:207:ASN:HA	1.71	0.72
1:Y:206:SER:HB3	1:Y:207:ASN:HA	1.71	0.72
1:j:71:HIS:HA	1:j:94:PRO:HB3	1.71	0.72
1:A:489:ARG:NH2	1:G:215:LEU:O	2.22	0.72
1:D:71:HIS:HA	1:D:94:PRO:HB3	1.71	0.72
1:N:206:SER:HB3	1:N:207:ASN:HA	1.71	0.72
1:O:425:LYS:HE3	1:h:430:ASP:HB3	1.69	0.72
1:V:303:ALA:HB1	1:X:387:ASN:H	1.55	0.72
1:k:71:HIS:HA	1:k:94:PRO:HB3	1.71	0.72
1:n:206:SER:HB3	1:n:207:ASN:HA	1.71	0.72
1:w:71:HIS:HA	1:w:94:PRO:HB3	1.71	0.72
1:C:387:ASN:H	1:2:303:ALA:HB1	1.55	0.72
1:I:71:HIS:HA	1:I:94:PRO:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:303:ALA:HB1	1:2:387:ASN:H	1.55	0.72
1:S:71:HIS:HA	1:S:94:PRO:HB3	1.71	0.72
1:V:71:HIS:HA	1:V:94:PRO:HB3	1.71	0.72
1:Z:430:ASP:HB3	1:x:425:LYS:HE3	1.70	0.72
1:3:71:HIS:HA	1:3:94:PRO:HB3	1.71	0.72
1:b:71:HIS:HA	1:b:94:PRO:HB3	1.71	0.72
1:g:206:SER:HB3	1:g:207:ASN:HA	1.71	0.72
1:k:303:ALA:HB1	1:m:387:ASN:H	1.54	0.72
1:o:206:SER:HB3	1:o:207:ASN:HA	1.71	0.72
1:p:71:HIS:HA	1:p:94:PRO:HB3	1.71	0.72
1:q:387:ASN:H	1:r:303:ALA:HB1	1.54	0.72
1:r:387:ASN:H	1:s:303:ALA:HB1	1.55	0.72
1:y:206:SER:HB3	1:y:207:ASN:HA	1.71	0.72
1:z:387:ASN:H	1:7:303:ALA:HB1	1.55	0.72
1:N:387:ASN:H	1:P:303:ALA:HB1	1.55	0.72
1:O:206:SER:HB3	1:O:207:ASN:HA	1.71	0.72
1:R:303:ALA:HB1	1:U:387:ASN:H	1.54	0.72
1:Y:71:HIS:HA	1:Y:94:PRO:HB3	1.71	0.72
1:g:387:ASN:H	1:h:303:ALA:HB1	1.55	0.72
1:y:425:LYS:HE3	1:7:430:ASP:HB3	1.70	0.72
1:B:425:LYS:HE3	1:L:430:ASP:HB3	1.70	0.72
1:L:71:HIS:HA	1:L:94:PRO:HB3	1.71	0.72
1:M:206:SER:HB3	1:M:207:ASN:HA	1.71	0.72
1:P:206:SER:HB3	1:P:207:ASN:HA	1.71	0.72
1:R:430:ASP:HB3	1:S:425:LYS:HE3	1.70	0.72
1:T:303:ALA:HB1	1:f:387:ASN:H	1.55	0.72
1:X:206:SER:HB3	1:X:207:ASN:HA	1.71	0.72
1:3:303:ALA:HB1	1:j:387:ASN:H	1.54	0.72
1:4:387:ASN:H	1:f:303:ALA:HB1	1.55	0.72
1:d:71:HIS:HA	1:d:94:PRO:HB3	1.71	0.72
1:e:206:SER:HB3	1:e:207:ASN:HA	1.71	0.72
1:n:387:ASN:H	1:o:303:ALA:HB1	1.55	0.72
1:t:430:ASP:HB3	1:u:425:LYS:HE3	1.70	0.72
1:w:425:LYS:HE3	1:x:430:ASP:HB3	1.70	0.72
1:z:206:SER:HB3	1:z:207:ASN:HA	1.71	0.72
1:B:206:SER:HB3	1:B:207:ASN:HA	1.71	0.72
1:B:303:ALA:HB1	1:L:387:ASN:H	1.55	0.72
1:D:303:ALA:HB1	1:P:387:ASN:H	1.55	0.72
1:E:425:LYS:HE3	1:F:430:ASP:HB3	1.70	0.72
1:H:71:HIS:HA	1:H:94:PRO:HB3	1.71	0.72
1:K:303:ALA:HB1	1:8:387:ASN:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:387:ASN:H	1:1:303:ALA:HB1	1.55	0.72
1:Q:206:SER:HB3	1:Q:207:ASN:HA	1.71	0.72
1:6:387:ASN:H	1:b:303:ALA:HB1	1.55	0.72
1:d:430:ASP:HB3	1:e:425:LYS:HE3	1.70	0.72
1:g:71:HIS:HA	1:g:94:PRO:HB3	1.71	0.72
1:l:430:ASP:HB3	1:m:425:LYS:HE3	1.70	0.72
1:o:387:ASN:H	1:p:303:ALA:HB1	1.55	0.72
1:v:206:SER:HB3	1:v:207:ASN:HA	1.71	0.72
1:A:180:GLU:OE2	1:A:412:ARG:NH2	2.23	0.72
1:B:430:ASP:HB3	1:J:425:LYS:HE3	1.70	0.72
1:K:430:ASP:HB3	1:1:425:LYS:HE3	1.69	0.72
1:W:206:SER:HB3	1:W:207:ASN:HA	1.71	0.72
1:Z:387:ASN:H	1:x:303:ALA:HB1	1.55	0.72
1:2:206:SER:HB3	1:2:207:ASN:HA	1.71	0.72
1:3:430:ASP:HB3	1:i:425:LYS:HE3	1.70	0.72
1:c:425:LYS:HE3	1:e:430:ASP:HB3	1.70	0.72
1:d:387:ASN:H	1:e:303:ALA:HB1	1.55	0.72
1:i:430:ASP:HB3	1:j:425:LYS:HE3	1.70	0.72
1:s:206:SER:HB3	1:s:207:ASN:HA	1.71	0.72
1:t:180:GLU:OE2	1:t:412:ARG:NH2	2.23	0.72
1:z:71:HIS:HA	1:z:94:PRO:HB3	1.71	0.72
1:J:430:ASP:HB3	1:L:425:LYS:HE3	1.69	0.72
1:T:425:LYS:HE3	1:f:430:ASP:HB3	1.69	0.72
1:5:71:HIS:HA	1:5:94:PRO:HB3	1.71	0.72
1:a:71:HIS:HA	1:a:94:PRO:HB3	1.71	0.72
1:c:430:ASP:HB3	1:d:425:LYS:HE3	1.69	0.72
1:r:206:SER:HB3	1:r:207:ASN:HA	1.71	0.72
1:B:387:ASN:H	1:J:303:ALA:HB1	1.55	0.72
1:C:303:ALA:HB1	1:M:387:ASN:H	1.55	0.72
1:D:206:SER:HB3	1:D:207:ASN:HA	1.71	0.72
1:K:535:ILE:HG22	1:K:536:ASN:H	1.55	0.72
1:L:492:ARG:O	1:L:493:ARG:NH1	2.23	0.72
1:U:206:SER:HB3	1:U:207:ASN:HA	1.71	0.72
1:X:71:HIS:HA	1:X:94:PRO:HB3	1.71	0.72
1:X:425:LYS:HE3	1:5:430:ASP:HB3	1.70	0.72
1:1:180:GLU:OE2	1:1:412:ARG:NH2	2.23	0.72
1:d:492:ARG:O	1:d:493:ARG:NH1	2.23	0.72
1:n:180:GLU:OE2	1:n:412:ARG:NH2	2.23	0.72
1:A:71:HIS:HA	1:A:94:PRO:HB3	1.71	0.72
1:C:206:SER:HB3	1:C:207:ASN:HA	1.71	0.72
1:D:387:ASN:H	1:N:303:ALA:HB1	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:206:SER:HB3	1:E:207:ASN:HA	1.71	0.72
1:J:535:ILE:HG22	1:J:536:ASN:H	1.55	0.72
1:N:180:GLU:OE2	1:N:412:ARG:NH2	2.23	0.72
1:R:206:SER:HB3	1:R:207:ASN:HA	1.71	0.72
1:U:71:HIS:HA	1:U:94:PRO:HB3	1.71	0.72
1:W:71:HIS:HA	1:W:94:PRO:HB3	1.71	0.72
1:Z:206:SER:HB3	1:Z:207:ASN:HA	1.71	0.72
1:4:71:HIS:HA	1:4:94:PRO:HB3	1.71	0.72
1:4:206:SER:HB3	1:4:207:ASN:HA	1.71	0.72
1:f:535:ILE:HG22	1:f:536:ASN:H	1.55	0.72
1:k:430:ASP:HB3	1:l:425:LYS:HE3	1.70	0.72
1:n:535:ILE:HG22	1:n:536:ASN:H	1.55	0.72
1:q:206:SER:HB3	1:q:207:ASN:HA	1.71	0.72
1:v:492:ARG:O	1:v:493:ARG:NH1	2.23	0.72
1:C:535:ILE:HG22	1:C:536:ASN:H	1.56	0.71
1:I:492:ARG:O	1:I:493:ARG:NH1	2.23	0.71
1:Q:492:ARG:O	1:Q:493:ARG:NH1	2.23	0.71
1:T:180:GLU:OE2	1:T:412:ARG:NH2	2.23	0.71
1:U:535:ILE:HG22	1:U:536:ASN:H	1.55	0.71
1:Y:492:ARG:O	1:Y:493:ARG:NH1	2.23	0.71
1:1:206:SER:HB3	1:1:207:ASN:HA	1.71	0.71
1:3:180:GLU:OE2	1:3:412:ARG:NH2	2.23	0.71
1:3:492:ARG:O	1:3:493:ARG:NH1	2.23	0.71
1:6:206:SER:HB3	1:6:207:ASN:HA	1.71	0.71
1:c:303:ALA:HB1	1:e:387:ASN:H	1.55	0.71
1:c:535:ILE:HG22	1:c:536:ASN:H	1.55	0.71
1:i:71:HIS:HA	1:i:94:PRO:HB3	1.71	0.71
1:k:492:ARG:O	1:k:493:ARG:NH1	2.23	0.71
1:p:206:SER:HB3	1:p:207:ASN:HA	1.71	0.71
1:q:303:ALA:HB1	1:s:387:ASN:H	1.55	0.71
1:q:535:ILE:HG22	1:q:536:ASN:H	1.56	0.71
1:u:206:SER:HB3	1:u:207:ASN:HA	1.71	0.71
1:x:206:SER:HB3	1:x:207:ASN:HA	1.71	0.71
1:8:206:SER:HB3	1:8:207:ASN:HA	1.71	0.71
1:A:206:SER:HB3	1:A:207:ASN:HA	1.71	0.71
1:D:180:GLU:OE2	1:D:412:ARG:NH2	2.23	0.71
1:G:535:ILE:HG22	1:G:536:ASN:H	1.55	0.71
1:N:535:ILE:HG22	1:N:536:ASN:H	1.55	0.71
1:V:492:ARG:O	1:V:493:ARG:NH1	2.23	0.71
1:6:535:ILE:HG22	1:6:536:ASN:H	1.55	0.71
1:a:492:ARG:O	1:a:493:ARG:NH1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:492:ARG:O	1:b:493:ARG:NH1	2.23	0.71
1:g:492:ARG:O	1:g:493:ARG:NH1	2.23	0.71
1:k:180:GLU:OE2	1:k:412:ARG:NH2	2.23	0.71
1:l:71:HIS:HA	1:l:94:PRO:HB3	1.71	0.71
1:x:492:ARG:O	1:x:493:ARG:NH1	2.23	0.71
1:8:71:HIS:HA	1:8:94:PRO:HB3	1.71	0.71
1:A:492:ARG:O	1:A:493:ARG:NH1	2.23	0.71
1:G:206:SER:HB3	1:G:207:ASN:HA	1.71	0.71
1:H:387:ASN:H	1:W:303:ALA:HB1	1.55	0.71
1:H:430:ASP:HB3	1:W:425:LYS:HE3	1.70	0.71
1:M:535:ILE:HG22	1:M:536:ASN:H	1.55	0.71
1:P:71:HIS:HA	1:P:94:PRO:HB3	1.71	0.71
1:P:535:ILE:HG22	1:P:536:ASN:H	1.55	0.71
1:Q:71:HIS:HA	1:Q:94:PRO:HB3	1.71	0.71
1:R:492:ARG:O	1:R:493:ARG:NH1	2.23	0.71
1:Z:71:HIS:HA	1:Z:94:PRO:HB3	1.71	0.71
1:Z:535:ILE:HG22	1:Z:536:ASN:H	1.56	0.71
1:a:206:SER:HB3	1:a:207:ASN:HA	1.71	0.71
1:f:206:SER:HB3	1:f:207:ASN:HA	1.71	0.71
1:n:303:ALA:HB1	1:p:387:ASN:H	1.55	0.71
1:p:180:GLU:OE2	1:p:412:ARG:NH2	2.23	0.71
1:s:535:ILE:HG22	1:s:536:ASN:H	1.55	0.71
1:z:492:ARG:O	1:z:493:ARG:NH1	2.23	0.71
1:A:303:ALA:HB1	1:I:387:ASN:H	1.55	0.71
1:E:215:LEU:O	1:F:489:ARG:NH2	2.24	0.71
1:I:206:SER:HB3	1:I:207:ASN:HA	1.71	0.71
1:L:363:THR:OG1	1:L:366:ASP:OD1	2.09	0.71
1:P:41:THR:HG21	1:P:235:SER:HB3	1.73	0.71
1:T:206:SER:HB3	1:T:207:ASN:HA	1.71	0.71
1:X:303:ALA:HB1	1:5:387:ASN:H	1.55	0.71
1:Y:41:THR:HG21	1:Y:235:SER:HB3	1.73	0.71
1:d:363:THR:OG1	1:d:366:ASP:OD1	2.09	0.71
1:h:206:SER:HB3	1:h:207:ASN:HA	1.71	0.71
1:i:387:ASN:H	1:j:303:ALA:HB1	1.55	0.71
1:l:206:SER:HB3	1:l:207:ASN:HA	1.71	0.71
1:m:206:SER:HB3	1:m:207:ASN:HA	1.71	0.71
1:o:535:ILE:HG22	1:o:536:ASN:H	1.55	0.71
1:v:71:HIS:HA	1:v:94:PRO:HB3	1.71	0.71
1:x:41:THR:HG21	1:x:235:SER:HB3	1.73	0.71
1:y:489:ARG:NH2	1:z:215:LEU:O	2.24	0.71
1:Q:363:THR:OG1	1:Q:366:ASP:OD1	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:492:ARG:O	1:S:493:ARG:NH1	2.23	0.71
1:T:41:THR:HG21	1:T:235:SER:HB3	1.73	0.71
1:V:41:THR:HG21	1:V:235:SER:HB3	1.73	0.71
1:1:41:THR:HG21	1:1:235:SER:HB3	1.73	0.71
1:3:387:ASN:H	1:i:303:ALA:HB1	1.55	0.71
1:4:180:GLU:OE2	1:4:412:ARG:NH2	2.23	0.71
1:6:303:ALA:HB1	1:a:387:ASN:H	1.55	0.71
1:a:303:ALA:HB1	1:b:387:ASN:H	1.55	0.71
1:d:41:THR:HG21	1:d:235:SER:HB3	1.73	0.71
1:f:492:ARG:O	1:f:493:ARG:NH1	2.23	0.71
1:h:535:ILE:HG22	1:h:536:ASN:H	1.55	0.71
1:i:363:THR:OG1	1:i:366:ASP:OD1	2.09	0.71
1:l:41:THR:HG21	1:l:235:SER:HB3	1.73	0.71
1:l:363:THR:OG1	1:l:366:ASP:OD1	2.09	0.71
1:l:387:ASN:H	1:m:303:ALA:HB1	1.55	0.71
1:o:41:THR:HG21	1:o:235:SER:HB3	1.73	0.71
1:v:363:THR:OG1	1:v:366:ASP:OD1	2.09	0.71
1:w:41:THR:HG21	1:w:235:SER:HB3	1.73	0.71
1:y:363:THR:OG1	1:y:366:ASP:OD1	2.09	0.71
1:8:180:GLU:OE2	1:8:412:ARG:NH2	2.23	0.71
1:B:492:ARG:O	1:B:493:ARG:NH1	2.23	0.71
1:J:41:THR:HG21	1:J:235:SER:HB3	1.73	0.71
1:K:492:ARG:O	1:K:493:ARG:NH1	2.23	0.71
1:O:363:THR:OG1	1:O:366:ASP:OD1	2.09	0.71
1:R:41:THR:HG21	1:R:235:SER:HB3	1.73	0.71
1:R:215:LEU:O	1:U:489:ARG:NH2	2.24	0.71
1:S:41:THR:HG21	1:S:235:SER:HB3	1.73	0.71
1:Z:303:ALA:HB1	1:w:387:ASN:H	1.54	0.71
1:Z:489:ARG:NH2	1:x:215:LEU:O	2.24	0.71
1:Z:492:ARG:O	1:Z:493:ARG:NH1	2.23	0.71
1:4:363:THR:OG1	1:4:366:ASP:OD1	2.09	0.71
1:4:492:ARG:O	1:4:493:ARG:NH1	2.23	0.71
1:c:41:THR:HG21	1:c:235:SER:HB3	1.73	0.71
1:d:489:ARG:NH2	1:e:215:LEU:O	2.24	0.71
1:g:363:THR:OG1	1:g:366:ASP:OD1	2.09	0.71
1:i:41:THR:HG21	1:i:235:SER:HB3	1.73	0.71
1:i:206:SER:HB3	1:i:207:ASN:HA	1.71	0.71
1:i:535:ILE:HG22	1:i:536:ASN:H	1.55	0.71
1:j:206:SER:HB3	1:j:207:ASN:HA	1.71	0.71
1:o:71:HIS:HA	1:o:94:PRO:HB3	1.71	0.71
1:w:492:ARG:O	1:w:493:ARG:NH1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:363:THR:OG1	1:z:366:ASP:OD1	2.09	0.71
1:7:206:SER:HB3	1:7:207:ASN:HA	1.71	0.71
1:7:535:ILE:HG22	1:7:536:ASN:H	1.55	0.71
1:8:492:ARG:O	1:8:493:ARG:NH1	2.23	0.71
1:B:215:LEU:O	1:L:489:ARG:NH2	2.24	0.71
1:F:215:LEU:O	1:Q:489:ARG:NH2	2.24	0.71
1:G:492:ARG:O	1:G:493:ARG:NH1	2.23	0.71
1:H:41:THR:HG21	1:H:235:SER:HB3	1.73	0.71
1:L:41:THR:HG21	1:L:235:SER:HB3	1.73	0.71
1:O:535:ILE:HG22	1:O:536:ASN:H	1.55	0.71
1:S:535:ILE:HG22	1:S:536:ASN:H	1.56	0.71
1:U:41:THR:HG21	1:U:235:SER:HB3	1.73	0.71
1:U:492:ARG:O	1:U:493:ARG:NH1	2.23	0.71
1:Z:41:THR:HG21	1:Z:235:SER:HB3	1.73	0.71
1:Z:215:LEU:O	1:w:489:ARG:NH2	2.24	0.71
1:b:206:SER:HB3	1:b:207:ASN:HA	1.71	0.71
1:e:492:ARG:O	1:e:493:ARG:NH1	2.23	0.71
1:k:387:ASN:H	1:l:303:ALA:HB1	1.55	0.71
1:o:492:ARG:O	1:o:493:ARG:NH1	2.23	0.71
1:t:41:THR:HG21	1:t:235:SER:HB3	1.73	0.71
1:t:71:HIS:HA	1:t:94:PRO:HB3	1.71	0.71
1:w:535:ILE:HG22	1:w:536:ASN:H	1.55	0.71
1:y:387:ASN:H	1:z:303:ALA:HB1	1.54	0.71
1:7:363:THR:OG1	1:7:366:ASP:OD1	2.09	0.71
1:8:363:THR:OG1	1:8:366:ASP:OD1	2.09	0.71
1:B:363:THR:OG1	1:B:366:ASP:OD1	2.09	0.71
1:D:215:LEU:O	1:P:489:ARG:NH2	2.24	0.71
1:D:363:THR:OG1	1:D:366:ASP:OD1	2.09	0.71
1:E:71:HIS:HA	1:E:94:PRO:HB3	1.71	0.71
1:F:71:HIS:HA	1:F:94:PRO:HB3	1.71	0.71
1:I:363:THR:OG1	1:I:366:ASP:OD1	2.09	0.71
1:J:206:SER:HB3	1:J:207:ASN:HA	1.71	0.71
1:K:206:SER:HB3	1:K:207:ASN:HA	1.71	0.71
1:P:492:ARG:O	1:P:493:ARG:NH1	2.23	0.71
1:T:489:ARG:NH2	1:4:215:LEU:O	2.24	0.71
1:V:387:ASN:H	1:5:303:ALA:HB1	1.55	0.71
1:3:41:THR:HG21	1:3:235:SER:HB3	1.73	0.71
1:b:363:THR:OG1	1:b:366:ASP:OD1	2.09	0.71
1:c:206:SER:HB3	1:c:207:ASN:HA	1.71	0.71
1:h:363:THR:OG1	1:h:366:ASP:OD1	2.09	0.71
1:j:535:ILE:HG22	1:j:536:ASN:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:535:ILE:HG22	1:k:536:ASN:H	1.55	0.71
1:l:535:ILE:HG22	1:l:536:ASN:H	1.55	0.71
1:m:41:THR:HG21	1:m:235:SER:HB3	1.73	0.71
1:n:71:HIS:HA	1:n:94:PRO:HB3	1.71	0.71
1:o:489:ARG:NH2	1:p:215:LEU:O	2.24	0.71
1:q:215:LEU:O	1:s:489:ARG:NH2	2.24	0.71
1:t:489:ARG:NH2	1:u:215:LEU:O	2.24	0.71
1:u:71:HIS:HA	1:u:94:PRO:HB3	1.71	0.71
1:y:71:HIS:HA	1:y:94:PRO:HB3	1.71	0.71
1:A:41:THR:HG21	1:A:235:SER:HB3	1.73	0.71
1:C:215:LEU:O	1:M:489:ARG:NH2	2.24	0.71
1:E:41:THR:HG21	1:E:235:SER:HB3	1.73	0.71
1:F:41:THR:HG21	1:F:235:SER:HB3	1.73	0.71
1:H:535:ILE:HG22	1:H:536:ASN:H	1.55	0.71
1:N:71:HIS:HA	1:N:94:PRO:HB3	1.71	0.71
1:N:489:ARG:NH2	1:P:215:LEU:O	2.24	0.71
1:O:71:HIS:HA	1:O:94:PRO:HB3	1.71	0.71
1:R:71:HIS:HA	1:R:94:PRO:HB3	1.71	0.71
1:S:387:ASN:H	1:U:303:ALA:HB1	1.55	0.71
1:S:489:ARG:NH2	1:U:215:LEU:O	2.24	0.71
1:X:180:GLU:OE2	1:X:412:ARG:NH2	2.23	0.71
1:1:489:ARG:NH2	1:8:215:LEU:O	2.24	0.71
1:a:41:THR:HG21	1:a:235:SER:HB3	1.73	0.71
1:b:41:THR:HG21	1:b:235:SER:HB3	1.73	0.71
1:e:363:THR:OG1	1:e:366:ASP:OD1	2.09	0.71
1:j:41:THR:HG21	1:j:235:SER:HB3	1.73	0.71
1:l:489:ARG:NH2	1:m:215:LEU:O	2.24	0.71
1:m:492:ARG:O	1:m:493:ARG:NH1	2.23	0.71
1:p:363:THR:OG1	1:p:366:ASP:OD1	2.09	0.71
1:r:71:HIS:HA	1:r:94:PRO:HB3	1.71	0.71
1:u:41:THR:HG21	1:u:235:SER:HB3	1.73	0.71
1:y:535:ILE:HG22	1:y:536:ASN:H	1.55	0.71
1:H:206:SER:HB3	1:H:207:ASN:HA	1.71	0.71
1:H:303:ALA:HB1	1:Y:387:ASN:H	1.55	0.71
1:W:180:GLU:OE2	1:W:412:ARG:NH2	2.23	0.71
1:W:363:THR:OG1	1:W:366:ASP:OD1	2.09	0.71
1:X:41:THR:HG21	1:X:235:SER:HB3	1.73	0.71
1:3:215:LEU:O	1:j:489:ARG:NH2	2.24	0.71
1:3:535:ILE:HG22	1:3:536:ASN:H	1.55	0.71
1:4:489:ARG:NH2	1:f:215:LEU:O	2.24	0.71
1:4:535:ILE:HG22	1:4:536:ASN:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:41:THR:HG21	1:5:235:SER:HB3	1.73	0.71
1:5:492:ARG:O	1:5:493:ARG:NH1	2.23	0.71
1:5:535:ILE:HG22	1:5:536:ASN:H	1.55	0.71
1:6:489:ARG:NH2	1:b:215:LEU:O	2.24	0.71
1:6:492:ARG:O	1:6:493:ARG:NH1	2.23	0.71
1:c:489:ARG:NH2	1:d:215:LEU:O	2.24	0.71
1:i:489:ARG:NH2	1:j:215:LEU:O	2.24	0.71
1:j:492:ARG:O	1:j:493:ARG:NH1	2.23	0.71
1:k:41:THR:HG21	1:k:235:SER:HB3	1.73	0.71
1:l:180:GLU:OE2	1:l:412:ARG:NH2	2.23	0.71
1:m:535:ILE:HG22	1:m:536:ASN:H	1.55	0.71
1:n:489:ARG:NH2	1:o:215:LEU:O	2.24	0.71
1:u:492:ARG:O	1:u:493:ARG:NH1	2.23	0.71
1:7:492:ARG:O	1:7:493:ARG:NH1	2.23	0.71
1:E:492:ARG:O	1:E:493:ARG:NH1	2.23	0.70
1:F:303:ALA:HB1	1:Q:387:ASN:H	1.55	0.70
1:H:492:ARG:O	1:H:493:ARG:NH1	2.23	0.70
1:I:41:THR:HG21	1:I:235:SER:HB3	1.73	0.70
1:J:489:ARG:NH2	1:L:215:LEU:O	2.24	0.70
1:K:215:LEU:O	1:8:489:ARG:NH2	2.24	0.70
1:W:41:THR:HG21	1:W:235:SER:HB3	1.73	0.70
1:X:363:THR:OG1	1:X:366:ASP:OD1	2.09	0.70
1:2:71:HIS:HA	1:2:94:PRO:HB3	1.71	0.70
1:3:363:THR:OG1	1:3:366:ASP:OD1	2.09	0.70
1:k:215:LEU:O	1:m:489:ARG:NH2	2.24	0.70
1:k:363:THR:OG1	1:k:366:ASP:OD1	2.09	0.70
1:t:215:LEU:O	1:v:489:ARG:NH2	2.24	0.70
1:v:41:THR:HG21	1:v:235:SER:HB3	1.73	0.70
1:x:71:HIS:HA	1:x:94:PRO:HB3	1.71	0.70
1:8:535:ILE:HG22	1:8:536:ASN:H	1.56	0.70
1:B:489:ARG:NH2	1:J:215:LEU:O	2.24	0.70
1:C:492:ARG:O	1:C:493:ARG:NH1	2.23	0.70
1:E:303:ALA:HB1	1:F:387:ASN:H	1.55	0.70
1:E:489:ARG:NH2	1:Q:215:LEU:O	2.24	0.70
1:K:363:THR:OG1	1:K:366:ASP:OD1	2.09	0.70
1:O:489:ARG:NH2	1:g:215:LEU:O	2.25	0.70
1:R:387:ASN:H	1:S:303:ALA:HB1	1.54	0.70
1:T:363:THR:OG1	1:T:366:ASP:OD1	2.09	0.70
1:1:363:THR:OG1	1:1:366:ASP:OD1	2.09	0.70
1:f:363:THR:OG1	1:f:366:ASP:OD1	2.09	0.70
1:i:180:GLU:OE2	1:i:412:ARG:NH2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:535:ILE:HG22	1:p:536:ASN:H	1.55	0.70
1:q:492:ARG:O	1:q:493:ARG:NH1	2.23	0.70
1:r:489:ARG:NH2	1:s:215:LEU:O	2.24	0.70
1:t:535:ILE:HG22	1:t:536:ASN:H	1.55	0.70
1:w:215:LEU:O	1:x:489:ARG:NH2	2.24	0.70
1:w:303:ALA:HB1	1:x:387:ASN:H	1.54	0.70
1:x:535:ILE:HG22	1:x:536:ASN:H	1.55	0.70
1:C:180:GLU:OE2	1:C:412:ARG:NH2	2.23	0.70
1:C:489:ARG:NH2	1:2:215:LEU:O	2.24	0.70
1:F:535:ILE:HG22	1:F:536:ASN:H	1.55	0.70
1:Q:41:THR:HG21	1:Q:235:SER:HB3	1.73	0.70
1:R:489:ARG:NH2	1:S:215:LEU:O	2.24	0.70
1:5:206:SER:HB3	1:5:207:ASN:HA	1.71	0.70
1:c:215:LEU:O	1:e:489:ARG:NH2	2.24	0.70
1:c:492:ARG:O	1:c:493:ARG:NH1	2.23	0.70
1:l:492:ARG:O	1:l:493:ARG:NH1	2.23	0.70
1:t:303:ALA:HB1	1:v:387:ASN:H	1.55	0.70
1:t:492:ARG:O	1:t:493:ARG:NH1	2.23	0.70
1:C:363:THR:OG1	1:C:366:ASP:OD1	2.09	0.70
1:D:492:ARG:O	1:D:493:ARG:NH1	2.23	0.70
1:L:535:ILE:HG22	1:L:536:ASN:H	1.55	0.70
1:M:215:LEU:O	1:2:489:ARG:NH2	2.24	0.70
1:N:363:THR:OG1	1:N:366:ASP:OD1	2.09	0.70
1:R:535:ILE:HG22	1:R:536:ASN:H	1.55	0.70
1:V:215:LEU:O	1:X:489:ARG:NH2	2.24	0.70
1:1:387:ASN:H	1:8:303:ALA:HB1	1.55	0.70
1:2:180:GLU:OE2	1:2:412:ARG:NH2	2.23	0.70
1:e:41:THR:HG21	1:e:235:SER:HB3	1.73	0.70
1:n:492:ARG:O	1:n:493:ARG:NH1	2.23	0.70
1:q:41:THR:HG21	1:q:235:SER:HB3	1.73	0.70
1:q:489:ARG:NH2	1:r:215:LEU:O	2.24	0.70
1:r:180:GLU:OE2	1:r:412:ARG:NH2	2.23	0.70
1:t:387:ASN:H	1:u:303:ALA:HB1	1.54	0.70
1:u:489:ARG:NH2	1:v:215:LEU:O	2.24	0.70
1:y:492:ARG:O	1:y:493:ARG:NH1	2.23	0.70
1:C:41:THR:HG21	1:C:235:SER:HB3	1.73	0.70
1:D:41:THR:HG21	1:D:235:SER:HB3	1.73	0.70
1:D:535:ILE:HG22	1:D:536:ASN:H	1.55	0.70
1:F:492:ARG:O	1:F:493:ARG:NH1	2.23	0.70
1:H:215:LEU:O	1:Y:489:ARG:NH2	2.24	0.70
1:I:535:ILE:HG22	1:I:536:ASN:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:363:THR:OG1	1:J:366:ASP:OD1	2.09	0.70
1:J:492:ARG:O	1:J:493:ARG:NH1	2.23	0.70
1:N:492:ARG:O	1:N:493:ARG:NH1	2.23	0.70
1:O:492:ARG:O	1:O:493:ARG:NH1	2.23	0.70
1:P:363:THR:OG1	1:P:366:ASP:OD1	2.09	0.70
1:T:535:ILE:HG22	1:T:536:ASN:H	1.55	0.70
1:V:489:ARG:NH2	1:5:215:LEU:O	2.24	0.70
1:V:535:ILE:HG22	1:V:536:ASN:H	1.55	0.70
1:W:489:ARG:NH2	1:Y:215:LEU:O	2.24	0.70
1:X:492:ARG:O	1:X:493:ARG:NH1	2.23	0.70
1:Y:535:ILE:HG22	1:Y:536:ASN:H	1.55	0.70
1:2:535:ILE:HG22	1:2:536:ASN:H	1.55	0.70
1:e:535:ILE:HG22	1:e:536:ASN:H	1.55	0.70
1:g:489:ARG:NH2	1:h:215:LEU:O	2.24	0.70
1:i:492:ARG:O	1:i:493:ARG:NH1	2.23	0.70
1:o:363:THR:OG1	1:o:366:ASP:OD1	2.09	0.70
1:p:492:ARG:O	1:p:493:ARG:NH1	2.23	0.70
1:q:363:THR:OG1	1:q:366:ASP:OD1	2.09	0.70
1:z:41:THR:HG21	1:z:235:SER:HB3	1.73	0.70
1:B:41:THR:HG21	1:B:235:SER:HB3	1.73	0.70
1:E:387:ASN:H	1:Q:303:ALA:HB1	1.54	0.70
1:M:71:HIS:HA	1:M:94:PRO:HB3	1.71	0.70
1:M:492:ARG:O	1:M:493:ARG:NH1	2.23	0.70
1:O:41:THR:HG21	1:O:235:SER:HB3	1.73	0.70
1:O:180:GLU:OE2	1:O:412:ARG:NH2	2.23	0.70
1:W:492:ARG:O	1:W:493:ARG:NH1	2.23	0.70
1:X:215:LEU:O	1:5:489:ARG:NH2	2.24	0.70
1:3:489:ARG:NH2	1:i:215:LEU:O	2.24	0.70
1:6:363:THR:OG1	1:6:366:ASP:OD1	2.09	0.70
1:c:363:THR:OG1	1:c:366:ASP:OD1	2.09	0.70
1:h:492:ARG:O	1:h:493:ARG:NH1	2.23	0.70
1:n:363:THR:OG1	1:n:366:ASP:OD1	2.09	0.70
1:p:41:THR:HG21	1:p:235:SER:HB3	1.73	0.70
1:q:180:GLU:OE2	1:q:412:ARG:NH2	2.23	0.70
1:u:363:THR:OG1	1:u:366:ASP:OD1	2.09	0.70
1:z:489:ARG:NH2	1:7:215:LEU:O	2.24	0.70
1:z:535:ILE:HG22	1:z:536:ASN:H	1.55	0.70
1:A:430:ASP:HB3	1:G:425:LYS:HE3	1.73	0.70
1:B:535:ILE:HG22	1:B:536:ASN:H	1.55	0.70
1:E:363:THR:OG1	1:E:366:ASP:OD1	2.09	0.70
1:F:363:THR:OG1	1:F:366:ASP:OD1	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:363:THR:OG1	1:G:366:ASP:OD1	2.09	0.70
1:I:180:GLU:OE2	1:I:412:ARG:NH2	2.23	0.70
1:K:489:ARG:NH2	1:1:215:LEU:O	2.24	0.70
1:R:363:THR:OG1	1:R:366:ASP:OD1	2.09	0.70
1:U:363:THR:OG1	1:U:366:ASP:OD1	2.09	0.70
1:Y:363:THR:OG1	1:Y:366:ASP:OD1	2.09	0.70
1:Z:363:THR:OG1	1:Z:366:ASP:OD1	2.09	0.70
1:1:535:ILE:HG22	1:1:536:ASN:H	1.55	0.70
1:g:41:THR:HG21	1:g:235:SER:HB3	1.73	0.70
1:t:363:THR:OG1	1:t:366:ASP:OD1	2.09	0.70
1:y:41:THR:HG21	1:y:235:SER:HB3	1.73	0.70
1:K:41:THR:HG21	1:K:235:SER:HB3	1.73	0.70
1:M:41:THR:HG21	1:M:235:SER:HB3	1.73	0.70
1:Q:535:ILE:HG22	1:Q:536:ASN:H	1.55	0.70
1:R:180:GLU:OE2	1:R:412:ARG:NH2	2.23	0.70
1:T:215:LEU:O	1:f:489:ARG:NH2	2.24	0.70
1:T:387:ASN:H	1:4:303:ALA:HB1	1.55	0.70
1:V:363:THR:OG1	1:V:366:ASP:OD1	2.09	0.70
1:c:387:ASN:H	1:d:303:ALA:HB1	1.55	0.70
1:d:206:SER:HB3	1:d:207:ASN:HA	1.71	0.70
1:d:535:ILE:HG22	1:d:536:ASN:H	1.55	0.70
1:f:41:THR:HG21	1:f:235:SER:HB3	1.73	0.70
1:g:535:ILE:HG22	1:g:536:ASN:H	1.55	0.70
1:k:489:ARG:NH2	1:l:215:LEU:O	2.24	0.70
1:m:363:THR:OG1	1:m:366:ASP:OD1	2.09	0.70
1:r:492:ARG:O	1:r:493:ARG:NH1	2.23	0.70
1:s:71:HIS:HA	1:s:94:PRO:HB3	1.71	0.70
1:s:492:ARG:O	1:s:493:ARG:NH1	2.23	0.70
1:x:180:GLU:OE2	1:x:412:ARG:NH2	2.23	0.70
1:E:535:ILE:HG22	1:E:536:ASN:H	1.55	0.70
1:G:180:GLU:OE2	1:G:412:ARG:NH2	2.23	0.70
1:J:387:ASN:H	1:L:303:ALA:HB1	1.55	0.70
1:O:387:ASN:H	1:g:303:ALA:HB1	1.55	0.70
1:X:535:ILE:HG22	1:X:536:ASN:H	1.55	0.70
1:2:492:ARG:O	1:2:493:ARG:NH1	2.23	0.70
1:6:215:LEU:O	1:a:489:ARG:NH2	2.25	0.70
1:b:180:GLU:OE2	1:b:412:ARG:NH2	2.23	0.70
1:b:535:ILE:HG22	1:b:536:ASN:H	1.55	0.70
1:j:363:THR:OG1	1:j:366:ASP:OD1	2.09	0.70
1:r:41:THR:HG21	1:r:235:SER:HB3	1.73	0.70
1:r:535:ILE:HG22	1:r:536:ASN:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:363:THR:OG1	1:x:366:ASP:OD1	2.09	0.70
1:y:180:GLU:OE2	1:y:412:ARG:NH2	2.23	0.70
1:U:180:GLU:OE2	1:U:412:ARG:NH2	2.23	0.70
1:6:180:GLU:OE2	1:6:412:ARG:NH2	2.23	0.70
1:s:41:THR:HG21	1:s:235:SER:HB3	1.73	0.70
1:u:387:ASN:H	1:v:303:ALA:HB1	1.55	0.70
1:v:535:ILE:HG22	1:v:536:ASN:H	1.55	0.70
1:G:66:LYS:NZ	1:W:456:SER:O	2.22	0.69
1:H:489:ARG:NH2	1:W:215:LEU:O	2.24	0.69
1:L:206:SER:HB3	1:L:207:ASN:HA	1.71	0.69
1:2:41:THR:HG21	1:2:235:SER:HB3	1.73	0.69
1:W:535:ILE:HG22	1:W:536:ASN:H	1.55	0.69
1:a:363:THR:OG1	1:a:366:ASP:OD1	2.09	0.69
1:y:215:LEU:O	1:7:489:ARG:NH2	2.24	0.69
1:A:363:THR:OG1	1:A:366:ASP:OD1	2.09	0.69
1:H:363:THR:OG1	1:H:366:ASP:OD1	2.09	0.69
1:Z:180:GLU:OE2	1:Z:412:ARG:NH2	2.23	0.69
1:1:492:ARG:O	1:1:493:ARG:NH1	2.23	0.69
1:5:363:THR:OG1	1:5:366:ASP:OD1	2.09	0.69
1:a:535:ILE:HG22	1:a:536:ASN:H	1.55	0.69
1:r:363:THR:OG1	1:r:366:ASP:OD1	2.09	0.69
1:s:363:THR:OG1	1:s:366:ASP:OD1	2.09	0.69
1:u:535:ILE:HG22	1:u:536:ASN:H	1.55	0.69
1:y:303:ALA:HB1	1:7:387:ASN:H	1.54	0.69
1:D:489:ARG:NH2	1:N:215:LEU:O	2.24	0.69
1:T:492:ARG:O	1:T:493:ARG:NH1	2.23	0.69
1:A:535:ILE:HG22	1:A:536:ASN:H	1.55	0.69
1:M:363:THR:OG1	1:M:366:ASP:OD1	2.09	0.69
1:2:363:THR:OG1	1:2:366:ASP:OD1	2.09	0.69
1:c:180:GLU:OE2	1:c:412:ARG:NH2	2.23	0.69
1:n:215:LEU:O	1:p:489:ARG:NH2	2.24	0.69
1:N:41:THR:HG21	1:N:235:SER:HB3	1.73	0.69
1:7:180:GLU:OE2	1:7:412:ARG:NH2	2.23	0.69
1:J:180:GLU:OE2	1:J:412:ARG:NH2	2.23	0.69
1:h:41:THR:HG21	1:h:235:SER:HB3	1.73	0.69
1:m:180:GLU:OE2	1:m:412:ARG:NH2	2.23	0.69
1:n:41:THR:HG21	1:n:235:SER:HB3	1.73	0.69
1:7:41:THR:HG21	1:7:235:SER:HB3	1.73	0.69
1:O:303:ALA:HB1	1:h:387:ASN:H	1.55	0.69
1:a:215:LEU:O	1:b:489:ARG:NH2	2.25	0.69
1:h:180:GLU:OE2	1:h:412:ARG:NH2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:180:GLU:OE2	1:u:412:ARG:NH2	2.23	0.69
1:A:215:LEU:O	1:I:489:ARG:NH2	2.25	0.69
1:8:41:THR:HG21	1:8:235:SER:HB3	1.73	0.69
1:E:180:GLU:OE2	1:E:412:ARG:NH2	2.23	0.69
1:G:41:THR:HG21	1:G:235:SER:HB3	1.73	0.69
1:6:41:THR:HG21	1:6:235:SER:HB3	1.73	0.69
1:j:180:GLU:OE2	1:j:412:ARG:NH2	2.23	0.69
1:4:107:PHE:O	1:4:412:ARG:NH1	2.22	0.68
1:w:363:THR:OG1	1:w:366:ASP:OD1	2.09	0.68
1:K:180:GLU:OE2	1:K:412:ARG:NH2	2.23	0.68
1:4:41:THR:HG21	1:4:235:SER:HB3	1.73	0.68
1:O:215:LEU:O	1:h:489:ARG:NH2	2.25	0.68
1:P:180:GLU:OE2	1:P:412:ARG:NH2	2.23	0.68
1:S:363:THR:OG1	1:S:366:ASP:OD1	2.09	0.68
1:f:180:GLU:OE2	1:f:412:ARG:NH2	2.23	0.68
1:A:387:ASN:H	1:G:303:ALA:HB1	1.58	0.68
1:o:180:GLU:OE2	1:o:412:ARG:NH2	2.23	0.68
1:j:107:PHE:O	1:j:412:ARG:NH1	2.21	0.68
1:A:496:ALA:HB2	1:F:490:PRO:HB2	1.76	0.68
1:G:496:ALA:HB2	1:H:490:PRO:HB2	1.76	0.68
1:H:180:GLU:OE2	1:H:412:ARG:NH2	2.23	0.68
1:5:180:GLU:OE2	1:5:412:ARG:NH2	2.23	0.68
1:m:107:PHE:O	1:m:412:ARG:NH1	2.21	0.68
1:z:180:GLU:OE2	1:z:412:ARG:NH2	2.23	0.67
1:S:496:ALA:HB2	1:T:490:PRO:HB2	1.77	0.67
1:1:490:PRO:HB2	1:w:496:ALA:HB2	1.77	0.67
1:5:490:PRO:HB2	1:6:496:ALA:HB2	1.77	0.67
1:a:496:ALA:HB2	1:t:490:PRO:HB2	1.76	0.67
1:k:107:PHE:O	1:k:412:ARG:NH1	2.21	0.67
1:k:490:PRO:HB2	1:r:496:ALA:HB2	1.77	0.67
1:C:496:ALA:HB2	1:L:490:PRO:HB2	1.77	0.67
1:Q:180:GLU:OE2	1:Q:412:ARG:NH2	2.23	0.67
1:U:496:ALA:HB2	1:V:490:PRO:HB2	1.77	0.67
1:2:496:ALA:HB2	1:3:490:PRO:HB2	1.77	0.67
1:3:107:PHE:O	1:3:412:ARG:NH1	2.21	0.67
1:Y:490:PRO:HB2	1:Z:496:ALA:HB2	1.77	0.67
1:d:490:PRO:HB2	1:q:496:ALA:HB2	1.77	0.67
1:g:180:GLU:OE2	1:g:412:ARG:NH2	2.23	0.67
1:g:490:PRO:HB2	1:l:496:ALA:HB2	1.77	0.67
1:i:496:ALA:HB2	1:z:490:PRO:HB2	1.77	0.67
1:M:180:GLU:OE2	1:M:412:ARG:NH2	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:490:PRO:HB2	1:X:496:ALA:HB2	1.77	0.67
1:l:107:PHE:O	1:l:412:ARG:NH1	2.21	0.67
1:v:180:GLU:OE2	1:v:412:ARG:NH2	2.23	0.67
1:D:496:ALA:HB2	1:M:490:PRO:HB2	1.77	0.67
1:i:490:PRO:HB2	1:z:496:ALA:HB2	1.76	0.67
1:y:107:PHE:O	1:y:412:ARG:NH1	2.21	0.67
1:7:496:ALA:HB2	1:8:490:PRO:HB2	1.77	0.67
1:J:490:PRO:HB2	1:K:496:ALA:HB2	1.77	0.67
1:W:496:ALA:HB2	1:X:490:PRO:HB2	1.77	0.67
1:4:490:PRO:HB2	1:h:496:ALA:HB2	1.77	0.67
1:5:496:ALA:HB2	1:6:490:PRO:HB2	1.77	0.67
1:c:490:PRO:HB2	1:f:496:ALA:HB2	1.77	0.67
1:s:180:GLU:OE2	1:s:412:ARG:NH2	2.23	0.67
1:V:180:GLU:OE2	1:V:412:ARG:NH2	2.23	0.67
1:1:496:ALA:HB2	1:w:490:PRO:HB2	1.77	0.67
1:i:107:PHE:O	1:i:412:ARG:NH1	2.21	0.67
1:p:496:ALA:HB2	1:s:490:PRO:HB2	1.77	0.67
1:Q:490:PRO:HB2	1:R:496:ALA:HB2	1.77	0.66
1:Y:180:GLU:OE2	1:Y:412:ARG:NH2	2.23	0.66
1:v:490:PRO:HB2	1:x:496:ALA:HB2	1.77	0.66
1:v:496:ALA:HB2	1:x:490:PRO:HB2	1.77	0.66
1:B:180:GLU:OE2	1:B:412:ARG:NH2	2.23	0.66
1:O:107:PHE:O	1:O:412:ARG:NH1	2.22	0.66
1:S:490:PRO:HB2	1:T:496:ALA:HB2	1.77	0.66
1:o:490:PRO:HB2	1:u:496:ALA:HB2	1.77	0.66
1:E:496:ALA:HB2	1:P:490:PRO:HB2	1.77	0.66
1:J:496:ALA:HB2	1:K:490:PRO:HB2	1.77	0.66
1:N:490:PRO:HB2	1:O:496:ALA:HB2	1.76	0.66
1:c:496:ALA:HB2	1:f:490:PRO:HB2	1.77	0.66
1:g:496:ALA:HB2	1:l:490:PRO:HB2	1.77	0.66
1:B:490:PRO:HB2	1:I:496:ALA:HB2	1.77	0.66
1:D:490:PRO:HB2	1:M:496:ALA:HB2	1.77	0.66
1:Q:496:ALA:HB2	1:R:490:PRO:HB2	1.77	0.66
1:4:496:ALA:HB2	1:h:490:PRO:HB2	1.77	0.66
1:a:490:PRO:HB2	1:t:496:ALA:HB2	1.77	0.66
1:e:180:GLU:OE2	1:e:412:ARG:NH2	2.23	0.66
1:n:496:ALA:HB2	1:y:490:PRO:HB2	1.77	0.66
1:b:496:ALA:HB2	1:e:490:PRO:HB2	1.77	0.66
1:7:490:PRO:HB2	1:8:496:ALA:HB2	1.77	0.66
1:d:180:GLU:OE2	1:d:412:ARG:NH2	2.23	0.66
1:p:490:PRO:HB2	1:s:496:ALA:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:490:PRO:HB2	1:F:496:ALA:HB2	1.78	0.66
1:b:490:PRO:HB2	1:e:496:ALA:HB2	1.77	0.66
1:n:490:PRO:HB2	1:y:496:ALA:HB2	1.77	0.66
1:w:180:GLU:OE2	1:w:412:ARG:NH2	2.23	0.66
1:W:363:THR:OG1	1:W:366:ASP:O	2.14	0.66
1:X:363:THR:OG1	1:X:366:ASP:O	2.14	0.66
1:B:496:ALA:HB2	1:I:490:PRO:HB2	1.77	0.66
1:L:180:GLU:OE2	1:L:412:ARG:NH2	2.23	0.66
1:2:490:PRO:HB2	1:3:496:ALA:HB2	1.77	0.66
1:a:180:GLU:OE2	1:a:412:ARG:NH2	2.23	0.66
1:k:496:ALA:HB2	1:r:490:PRO:HB2	1.77	0.66
1:r:363:THR:OG1	1:r:366:ASP:O	2.14	0.66
1:A:358:GLN:HE22	1:A:413:GLU:HG3	1.62	0.65
1:E:363:THR:OG1	1:E:366:ASP:O	2.14	0.65
1:H:363:THR:OG1	1:H:366:ASP:O	2.14	0.65
1:M:358:GLN:HE22	1:M:413:GLU:HG3	1.61	0.65
1:N:496:ALA:HB2	1:O:490:PRO:HB2	1.77	0.65
1:R:358:GLN:HE22	1:R:413:GLU:HG3	1.61	0.65
1:S:180:GLU:OE2	1:S:412:ARG:NH2	2.23	0.65
1:Y:358:GLN:HE22	1:Y:413:GLU:HG3	1.62	0.65
1:5:107:PHE:O	1:5:412:ARG:NH1	2.22	0.65
1:5:363:THR:OG1	1:5:366:ASP:O	2.14	0.65
1:j:490:PRO:HB2	1:m:496:ALA:HB2	1.77	0.65
1:j:496:ALA:HB2	1:m:490:PRO:HB2	1.77	0.65
1:x:358:GLN:HE22	1:x:413:GLU:HG3	1.61	0.65
1:H:107:PHE:O	1:H:412:ARG:NH1	2.21	0.65
1:Q:107:PHE:O	1:Q:412:ARG:NH1	2.22	0.65
1:V:358:GLN:HE22	1:V:413:GLU:HG3	1.62	0.65
1:X:358:GLN:HE22	1:X:413:GLU:HG3	1.61	0.65
1:5:66:LYS:NZ	1:b:456:SER:O	2.27	0.65
1:a:358:GLN:HE22	1:a:413:GLU:HG3	1.62	0.65
1:8:363:THR:OG1	1:8:366:ASP:O	2.14	0.65
1:C:358:GLN:HE22	1:C:413:GLU:HG3	1.61	0.65
1:C:490:PRO:HB2	1:L:496:ALA:HB2	1.77	0.65
1:i:358:GLN:HE22	1:i:413:GLU:HG3	1.61	0.65
1:k:66:LYS:NZ	1:s:456:SER:O	2.27	0.65
1:l:358:GLN:HE22	1:l:413:GLU:HG3	1.61	0.65
1:q:358:GLN:HE22	1:q:413:GLU:HG3	1.61	0.65
1:s:358:GLN:HE22	1:s:413:GLU:HG3	1.62	0.65
1:G:489:ARG:NH2	1:I:215:LEU:O	2.29	0.65
1:H:358:GLN:HE22	1:H:413:GLU:HG3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:358:GLN:HE22	1:I:413:GLU:HG3	1.62	0.65
1:R:363:THR:OG1	1:R:366:ASP:O	2.14	0.65
1:W:358:GLN:HE22	1:W:413:GLU:HG3	1.62	0.65
1:4:363:THR:OG1	1:4:366:ASP:O	2.14	0.65
1:j:358:GLN:HE22	1:j:413:GLU:HG3	1.62	0.65
1:x:363:THR:OG1	1:x:366:ASP:O	2.14	0.65
1:7:363:THR:OG1	1:7:366:ASP:O	2.14	0.65
1:F:358:GLN:HE22	1:F:413:GLU:HG3	1.62	0.65
1:b:358:GLN:HE22	1:b:413:GLU:HG3	1.61	0.65
1:d:496:ALA:HB2	1:q:490:PRO:HB2	1.77	0.65
1:h:363:THR:OG1	1:h:366:ASP:O	2.14	0.65
1:m:358:GLN:HE22	1:m:413:GLU:HG3	1.62	0.65
1:t:358:GLN:HE22	1:t:413:GLU:HG3	1.61	0.65
1:v:107:PHE:O	1:v:412:ARG:NH1	2.21	0.65
1:N:66:LYS:NZ	1:g:456:SER:O	2.27	0.65
1:5:358:GLN:HE22	1:5:413:GLU:HG3	1.62	0.65
1:o:358:GLN:HE22	1:o:413:GLU:HG3	1.61	0.65
1:E:490:PRO:HB2	1:P:496:ALA:HB2	1.77	0.65
1:N:358:GLN:HE22	1:N:413:GLU:HG3	1.61	0.65
1:T:358:GLN:HE22	1:T:413:GLU:HG3	1.61	0.65
1:Z:107:PHE:O	1:Z:412:ARG:NH1	2.22	0.65
1:k:358:GLN:HE22	1:k:413:GLU:HG3	1.62	0.65
1:P:358:GLN:HE22	1:P:413:GLU:HG3	1.62	0.65
1:3:358:GLN:HE22	1:3:413:GLU:HG3	1.62	0.65
1:o:107:PHE:O	1:o:412:ARG:NH1	2.21	0.65
1:F:180:GLU:OE2	1:F:412:ARG:NH2	2.23	0.65
1:P:107:PHE:O	1:P:412:ARG:NH1	2.21	0.65
1:S:107:PHE:O	1:S:412:ARG:NH1	2.21	0.65
1:U:107:PHE:O	1:U:412:ARG:NH1	2.21	0.65
1:Y:107:PHE:HB3	1:Y:112:TRP:HB2	1.79	0.65
1:1:358:GLN:HE22	1:1:413:GLU:HG3	1.62	0.65
1:n:358:GLN:HE22	1:n:413:GLU:HG3	1.62	0.65
1:o:66:LYS:NZ	1:v:456:SER:O	2.27	0.65
1:o:496:ALA:HB2	1:u:490:PRO:HB2	1.77	0.65
1:p:358:GLN:HE22	1:p:413:GLU:HG3	1.62	0.65
1:t:107:PHE:O	1:t:412:ARG:NH1	2.22	0.65
1:A:107:PHE:HB3	1:A:112:TRP:HB2	1.80	0.65
1:B:107:PHE:HB3	1:B:112:TRP:HB2	1.79	0.65
1:D:358:GLN:HE22	1:D:413:GLU:HG3	1.61	0.65
1:F:107:PHE:HB3	1:F:112:TRP:HB2	1.79	0.65
1:K:363:THR:OG1	1:K:366:ASP:O	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:107:PHE:HB3	1:O:112:TRP:HB2	1.79	0.65
1:Q:358:GLN:HE22	1:Q:413:GLU:HG3	1.62	0.65
1:V:107:PHE:HB3	1:V:112:TRP:HB2	1.79	0.65
1:a:107:PHE:HB3	1:a:112:TRP:HB2	1.79	0.65
1:a:363:THR:OG1	1:a:366:ASP:O	2.14	0.65
1:e:107:PHE:HB3	1:e:112:TRP:HB2	1.79	0.65
1:n:66:LYS:NZ	1:z:456:SER:O	2.27	0.65
1:v:358:GLN:HE22	1:v:413:GLU:HG3	1.61	0.65
1:y:107:PHE:HB3	1:y:112:TRP:HB2	1.79	0.65
1:J:358:GLN:HE22	1:J:413:GLU:HG3	1.61	0.64
1:K:107:PHE:HB3	1:K:112:TRP:HB2	1.79	0.64
1:P:66:LYS:NZ	1:Q:456:SER:O	2.27	0.64
1:d:107:PHE:HB3	1:d:112:TRP:HB2	1.79	0.64
1:p:107:PHE:O	1:p:412:ARG:NH1	2.21	0.64
1:t:107:PHE:HB3	1:t:112:TRP:HB2	1.79	0.64
1:8:358:GLN:HE22	1:8:413:GLU:HG3	1.62	0.64
1:A:363:THR:OG1	1:A:366:ASP:O	2.14	0.64
1:B:107:PHE:O	1:B:412:ARG:NH1	2.22	0.64
1:E:358:GLN:HE22	1:E:413:GLU:HG3	1.62	0.64
1:L:107:PHE:HB3	1:L:112:TRP:HB2	1.79	0.64
1:4:358:GLN:HE22	1:4:413:GLU:HG3	1.62	0.64
1:f:107:PHE:O	1:f:412:ARG:NH1	2.21	0.64
1:h:358:GLN:HE22	1:h:413:GLU:HG3	1.61	0.64
1:s:512:HIS:O	1:s:513:VAL:HG23	1.98	0.64
1:F:107:PHE:O	1:F:412:ARG:NH1	2.22	0.64
1:G:64:LEU:HD23	1:W:453:PRO:HB2	1.78	0.64
1:J:363:THR:OG1	1:J:366:ASP:O	2.14	0.64
1:K:107:PHE:O	1:K:412:ARG:NH1	2.21	0.64
1:M:512:HIS:O	1:M:513:VAL:HG23	1.98	0.64
1:U:358:GLN:HE22	1:U:413:GLU:HG3	1.61	0.64
1:W:107:PHE:HB3	1:W:112:TRP:HB2	1.79	0.64
1:W:512:HIS:O	1:W:513:VAL:HG23	1.98	0.64
1:X:107:PHE:HB3	1:X:112:TRP:HB2	1.79	0.64
1:X:512:HIS:O	1:X:513:VAL:HG23	1.98	0.64
1:4:107:PHE:HB3	1:4:112:TRP:HB2	1.79	0.64
1:c:358:GLN:HE22	1:c:413:GLU:HG3	1.61	0.64
1:f:107:PHE:HB3	1:f:112:TRP:HB2	1.79	0.64
1:t:512:HIS:O	1:t:513:VAL:HG23	1.98	0.64
1:w:107:PHE:O	1:w:412:ARG:NH1	2.21	0.64
1:w:512:HIS:O	1:w:513:VAL:HG23	1.98	0.64
1:7:358:GLN:HE22	1:7:413:GLU:HG3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:512:HIS:O	1:F:513:VAL:HG23	1.98	0.64
1:I:512:HIS:O	1:I:513:VAL:HG23	1.98	0.64
1:N:512:HIS:O	1:N:513:VAL:HG23	1.98	0.64
1:S:358:GLN:HE22	1:S:413:GLU:HG3	1.61	0.64
1:S:512:HIS:O	1:S:513:VAL:HG23	1.98	0.64
1:b:512:HIS:O	1:b:513:VAL:HG23	1.98	0.64
1:c:363:THR:OG1	1:c:366:ASP:O	2.14	0.64
1:e:512:HIS:O	1:e:513:VAL:HG23	1.98	0.64
1:u:358:GLN:HE22	1:u:413:GLU:HG3	1.62	0.64
1:B:512:HIS:O	1:B:513:VAL:HG23	1.98	0.64
1:K:358:GLN:HE22	1:K:413:GLU:HG3	1.62	0.64
1:L:107:PHE:O	1:L:412:ARG:NH1	2.21	0.64
1:P:107:PHE:HB3	1:P:112:TRP:HB2	1.79	0.64
1:Z:358:GLN:HE22	1:Z:413:GLU:HG3	1.62	0.64
1:2:107:PHE:O	1:2:412:ARG:NH1	2.22	0.64
1:e:107:PHE:O	1:e:412:ARG:NH1	2.22	0.64
1:k:512:HIS:O	1:k:513:VAL:HG23	1.98	0.64
1:n:512:HIS:O	1:n:513:VAL:HG23	1.98	0.64
1:o:107:PHE:HB3	1:o:112:TRP:HB2	1.79	0.64
1:8:107:PHE:HB3	1:8:112:TRP:HB2	1.79	0.64
1:B:358:GLN:HE22	1:B:413:GLU:HG3	1.62	0.64
1:D:107:PHE:O	1:D:412:ARG:NH1	2.21	0.64
1:3:107:PHE:HB3	1:3:112:TRP:HB2	1.79	0.64
1:3:512:HIS:O	1:3:513:VAL:HG23	1.98	0.64
1:r:107:PHE:O	1:r:412:ARG:NH1	2.21	0.64
1:w:358:GLN:HE22	1:w:413:GLU:HG3	1.61	0.64
1:C:512:HIS:O	1:C:513:VAL:HG23	1.98	0.64
1:G:358:GLN:HE22	1:G:413:GLU:HG3	1.62	0.64
1:O:363:THR:OG1	1:O:366:ASP:O	2.14	0.64
1:Q:107:PHE:HB3	1:Q:112:TRP:HB2	1.79	0.64
1:X:66:LYS:NZ	1:Y:456:SER:O	2.27	0.64
1:Y:496:ALA:HB2	1:Z:490:PRO:HB2	1.77	0.64
1:e:358:GLN:HE22	1:e:413:GLU:HG3	1.62	0.64
1:f:358:GLN:HE22	1:f:413:GLU:HG3	1.61	0.64
1:q:512:HIS:O	1:q:513:VAL:HG23	1.98	0.64
1:E:512:HIS:O	1:E:513:VAL:HG23	1.98	0.64
1:F:363:THR:OG1	1:F:366:ASP:O	2.14	0.64
1:Z:512:HIS:O	1:Z:513:VAL:HG23	1.98	0.64
1:6:358:GLN:HE22	1:6:413:GLU:HG3	1.62	0.64
1:a:201:ALA:H	1:a:210:GLU:HG2	1.63	0.64
1:b:107:PHE:O	1:b:412:ARG:NH1	2.21	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:107:PHE:HB3	1:g:112:TRP:HB2	1.79	0.64
1:k:107:PHE:HB3	1:k:112:TRP:HB2	1.79	0.64
1:p:512:HIS:O	1:p:513:VAL:HG23	1.98	0.64
1:r:358:GLN:HE22	1:r:413:GLU:HG3	1.61	0.64
1:u:512:HIS:O	1:u:513:VAL:HG23	1.98	0.64
1:v:512:HIS:O	1:v:513:VAL:HG23	1.98	0.64
1:z:358:GLN:HE22	1:z:413:GLU:HG3	1.62	0.64
1:A:201:ALA:H	1:A:210:GLU:HG2	1.63	0.64
1:D:512:HIS:O	1:D:513:VAL:HG23	1.98	0.64
1:F:456:SER:O	1:R:66:LYS:NZ	2.27	0.64
1:N:363:THR:OG1	1:N:366:ASP:O	2.14	0.64
1:Q:512:HIS:O	1:Q:513:VAL:HG23	1.98	0.64
1:R:512:HIS:O	1:R:513:VAL:HG23	1.98	0.64
1:T:512:HIS:O	1:T:513:VAL:HG23	1.98	0.64
1:U:490:PRO:HB2	1:V:496:ALA:HB2	1.77	0.64
1:U:512:HIS:O	1:U:513:VAL:HG23	1.98	0.64
1:2:358:GLN:HE22	1:2:413:GLU:HG3	1.62	0.64
1:d:107:PHE:O	1:d:412:ARG:NH1	2.21	0.64
1:t:456:SER:O	1:x:66:LYS:NZ	2.27	0.64
1:v:107:PHE:HB3	1:v:112:TRP:HB2	1.79	0.64
1:y:363:THR:OG1	1:y:366:ASP:O	2.14	0.64
1:z:107:PHE:HB3	1:z:112:TRP:HB2	1.79	0.64
1:B:201:ALA:H	1:B:210:GLU:HG2	1.63	0.64
1:C:201:ALA:H	1:C:210:GLU:HG2	1.63	0.64
1:O:358:GLN:HE22	1:O:413:GLU:HG3	1.62	0.64
1:Z:456:SER:O	1:1:66:LYS:NZ	2.27	0.64
1:1:512:HIS:O	1:1:513:VAL:HG23	1.98	0.64
1:e:201:ALA:H	1:e:210:GLU:HG2	1.63	0.64
1:g:358:GLN:HE22	1:g:413:GLU:HG3	1.61	0.64
1:t:363:THR:OG1	1:t:366:ASP:O	2.14	0.64
1:w:201:ALA:H	1:w:210:GLU:HG2	1.63	0.64
1:x:512:HIS:O	1:x:513:VAL:HG23	1.98	0.64
1:y:358:GLN:HE22	1:y:413:GLU:HG3	1.62	0.64
1:L:201:ALA:H	1:L:210:GLU:HG2	1.63	0.63
1:R:201:ALA:H	1:R:210:GLU:HG2	1.63	0.63
1:S:201:ALA:H	1:S:210:GLU:HG2	1.63	0.63
1:T:66:LYS:NZ	1:U:456:SER:O	2.27	0.63
1:Y:512:HIS:O	1:Y:513:VAL:HG23	1.98	0.63
1:Z:363:THR:OG1	1:Z:366:ASP:O	2.14	0.63
1:2:107:PHE:HB3	1:2:112:TRP:HB2	1.80	0.63
1:4:201:ALA:H	1:4:210:GLU:HG2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:201:ALA:H	1:c:210:GLU:HG2	1.63	0.63
1:d:201:ALA:H	1:d:210:GLU:HG2	1.63	0.63
1:r:107:PHE:HB3	1:r:112:TRP:HB2	1.80	0.63
1:v:201:ALA:H	1:v:210:GLU:HG2	1.63	0.63
1:x:201:ALA:H	1:x:210:GLU:HG2	1.63	0.63
1:8:201:ALA:H	1:8:210:GLU:HG2	1.63	0.63
1:E:201:ALA:H	1:E:210:GLU:HG2	1.63	0.63
1:G:512:HIS:O	1:G:513:VAL:HG23	1.98	0.63
1:H:512:HIS:O	1:H:513:VAL:HG23	1.98	0.63
1:I:107:PHE:O	1:I:412:ARG:NH1	2.21	0.63
1:J:107:PHE:HB3	1:J:112:TRP:HB2	1.79	0.63
1:J:201:ALA:H	1:J:210:GLU:HG2	1.63	0.63
1:N:107:PHE:HB3	1:N:112:TRP:HB2	1.79	0.63
1:W:65:VAL:HG22	1:W:188:LEU:HD12	1.81	0.63
1:Y:363:THR:OG1	1:Y:366:ASP:O	2.14	0.63
1:g:201:ALA:H	1:g:210:GLU:HG2	1.63	0.63
1:n:107:PHE:HB3	1:n:112:TRP:HB2	1.79	0.63
1:q:201:ALA:H	1:q:210:GLU:HG2	1.63	0.63
1:u:201:ALA:H	1:u:210:GLU:HG2	1.63	0.63
1:z:201:ALA:H	1:z:210:GLU:HG2	1.63	0.63
1:C:107:PHE:HB3	1:C:112:TRP:HB2	1.80	0.63
1:D:201:ALA:H	1:D:210:GLU:HG2	1.63	0.63
1:Q:201:ALA:H	1:Q:210:GLU:HG2	1.63	0.63
1:R:65:VAL:HB	1:R:449:MET:HE3	1.81	0.63
1:S:65:VAL:HG22	1:S:188:LEU:HD12	1.81	0.63
1:T:65:VAL:HB	1:T:449:MET:HE3	1.81	0.63
1:V:363:THR:OG1	1:V:366:ASP:O	2.14	0.63
1:V:512:HIS:O	1:V:513:VAL:HG23	1.98	0.63
1:W:65:VAL:HB	1:W:449:MET:HE3	1.81	0.63
1:X:65:VAL:HG22	1:X:188:LEU:HD12	1.81	0.63
1:X:65:VAL:HB	1:X:449:MET:HE3	1.81	0.63
1:1:65:VAL:HB	1:1:449:MET:HE3	1.81	0.63
1:2:512:HIS:O	1:2:513:VAL:HG23	1.98	0.63
1:i:512:HIS:O	1:i:513:VAL:HG23	1.98	0.63
1:j:512:HIS:O	1:j:513:VAL:HG23	1.98	0.63
1:k:65:VAL:HG22	1:k:188:LEU:HD12	1.81	0.63
1:n:65:VAL:HG22	1:n:188:LEU:HD12	1.81	0.63
1:p:201:ALA:H	1:p:210:GLU:HG2	1.63	0.63
1:r:512:HIS:O	1:r:513:VAL:HG23	1.98	0.63
1:s:363:THR:OG1	1:s:366:ASP:O	2.14	0.63
1:w:65:VAL:HG22	1:w:188:LEU:HD12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:65:VAL:HB	1:x:449:MET:HE3	1.81	0.63
1:F:65:VAL:HG22	1:F:188:LEU:HD12	1.81	0.63
1:I:65:VAL:HG22	1:I:188:LEU:HD12	1.81	0.63
1:L:358:GLN:HE22	1:L:413:GLU:HG3	1.61	0.63
1:M:363:THR:OG1	1:M:366:ASP:O	2.14	0.63
1:N:65:VAL:HG22	1:N:188:LEU:HD12	1.81	0.63
1:N:65:VAL:HB	1:N:449:MET:HE3	1.81	0.63
1:O:65:VAL:HB	1:O:449:MET:HE3	1.81	0.63
1:U:107:PHE:HB3	1:U:112:TRP:HB2	1.79	0.63
1:3:65:VAL:HG22	1:3:188:LEU:HD12	1.81	0.63
1:6:512:HIS:O	1:6:513:VAL:HG23	1.98	0.63
1:b:65:VAL:HG22	1:b:188:LEU:HD12	1.81	0.63
1:c:107:PHE:HB3	1:c:112:TRP:HB2	1.79	0.63
1:g:512:HIS:O	1:g:513:VAL:HG23	1.98	0.63
1:q:107:PHE:HB3	1:q:112:TRP:HB2	1.80	0.63
1:y:65:VAL:HB	1:y:449:MET:HE3	1.81	0.63
1:A:65:VAL:HB	1:A:449:MET:HE3	1.81	0.63
1:G:496:ALA:HB3	1:H:491:GLU:O	1.98	0.63
1:L:512:HIS:O	1:L:513:VAL:HG23	1.98	0.63
1:M:107:PHE:O	1:M:412:ARG:NH1	2.21	0.63
1:S:107:PHE:HB3	1:S:112:TRP:HB2	1.79	0.63
1:U:201:ALA:H	1:U:210:GLU:HG2	1.63	0.63
1:X:201:ALA:H	1:X:210:GLU:HG2	1.63	0.63
1:Z:107:PHE:HB3	1:Z:112:TRP:HB2	1.80	0.63
1:5:512:HIS:O	1:5:513:VAL:HG23	1.98	0.63
1:a:65:VAL:HB	1:a:449:MET:HE3	1.81	0.63
1:j:107:PHE:HB3	1:j:112:TRP:HB2	1.79	0.63
1:l:512:HIS:O	1:l:513:VAL:HG23	1.98	0.63
1:m:512:HIS:O	1:m:513:VAL:HG23	1.98	0.63
1:t:65:VAL:HG22	1:t:188:LEU:HD12	1.81	0.63
1:7:512:HIS:O	1:7:513:VAL:HG23	1.98	0.63
1:A:512:HIS:O	1:A:513:VAL:HG23	1.98	0.63
1:B:65:VAL:HG22	1:B:188:LEU:HD12	1.81	0.63
1:P:512:HIS:O	1:P:513:VAL:HG23	1.98	0.63
1:W:121:ARG:HG2	1:W:248:ASN:HD22	1.64	0.63
1:W:201:ALA:H	1:W:210:GLU:HG2	1.63	0.63
1:Y:121:ARG:HG2	1:Y:248:ASN:HD22	1.64	0.63
1:Z:201:ALA:H	1:Z:210:GLU:HG2	1.63	0.63
1:1:65:VAL:HG22	1:1:188:LEU:HD12	1.81	0.63
1:4:512:HIS:O	1:4:513:VAL:HG23	1.98	0.63
1:a:512:HIS:O	1:a:513:VAL:HG23	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:358:GLN:HE22	1:d:413:GLU:HG3	1.61	0.63
1:d:512:HIS:O	1:d:513:VAL:HG23	1.98	0.63
1:e:65:VAL:HG22	1:e:188:LEU:HD12	1.81	0.63
1:g:363:THR:OG1	1:g:366:ASP:O	2.14	0.63
1:h:512:HIS:O	1:h:513:VAL:HG23	1.98	0.63
1:m:65:VAL:HB	1:m:449:MET:HE3	1.81	0.63
1:w:107:PHE:HB3	1:w:112:TRP:HB2	1.80	0.63
1:z:512:HIS:O	1:z:513:VAL:HG23	1.98	0.63
1:C:65:VAL:HG22	1:C:188:LEU:HD12	1.81	0.63
1:F:201:ALA:H	1:F:210:GLU:HG2	1.63	0.63
1:I:363:THR:OG1	1:I:366:ASP:O	2.14	0.63
1:O:512:HIS:O	1:O:513:VAL:HG23	1.98	0.63
1:T:65:VAL:HG22	1:T:188:LEU:HD12	1.81	0.63
1:U:65:VAL:HG22	1:U:188:LEU:HD12	1.81	0.63
1:V:107:PHE:O	1:V:412:ARG:NH1	2.21	0.63
1:V:121:ARG:HG2	1:V:248:ASN:HD22	1.64	0.63
1:X:121:ARG:HG2	1:X:248:ASN:HD22	1.64	0.63
1:Z:65:VAL:HG22	1:Z:188:LEU:HD12	1.81	0.63
1:4:121:ARG:HG2	1:4:248:ASN:HD22	1.64	0.63
1:h:121:ARG:HG2	1:h:248:ASN:HD22	1.64	0.63
1:i:66:LYS:NZ	1:7:456:SER:O	2.27	0.63
1:m:107:PHE:HB3	1:m:112:TRP:HB2	1.79	0.63
1:m:121:ARG:HG2	1:m:248:ASN:HD22	1.64	0.63
1:n:65:VAL:HB	1:n:449:MET:HE3	1.81	0.63
1:o:512:HIS:O	1:o:513:VAL:HG23	1.98	0.63
1:t:201:ALA:H	1:t:210:GLU:HG2	1.63	0.63
1:x:107:PHE:O	1:x:412:ARG:NH1	2.21	0.63
1:7:121:ARG:HG2	1:7:248:ASN:HD22	1.64	0.63
1:8:512:HIS:O	1:8:513:VAL:HG23	1.98	0.63
1:A:66:LYS:NZ	1:E:456:SER:O	2.26	0.63
1:D:65:VAL:HG22	1:D:188:LEU:HD12	1.81	0.63
1:H:107:PHE:HB3	1:H:112:TRP:HB2	1.79	0.63
1:J:512:HIS:O	1:J:513:VAL:HG23	1.98	0.63
1:K:121:ARG:HG2	1:K:248:ASN:HD22	1.64	0.63
1:K:139:ILE:HD11	1:K:467:TYR:HD2	1.64	0.63
1:K:512:HIS:O	1:K:513:VAL:HG23	1.98	0.63
1:N:139:ILE:HD11	1:N:467:TYR:HD2	1.64	0.63
1:R:107:PHE:O	1:R:412:ARG:NH1	2.21	0.63
1:T:107:PHE:HB3	1:T:112:TRP:HB2	1.79	0.63
1:V:201:ALA:H	1:V:210:GLU:HG2	1.63	0.63
1:W:107:PHE:O	1:W:412:ARG:NH1	2.22	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:201:ALA:H	1:Y:210:GLU:HG2	1.63	0.63
1:1:107:PHE:HB3	1:1:112:TRP:HB2	1.79	0.63
1:2:66:LYS:NZ	1:i:456:SER:O	2.27	0.63
1:f:139:ILE:HD11	1:f:467:TYR:HD2	1.64	0.63
1:g:121:ARG:HG2	1:g:248:ASN:HD22	1.64	0.63
1:h:65:VAL:HB	1:h:449:MET:HE3	1.81	0.63
1:j:65:VAL:HB	1:j:449:MET:HE3	1.81	0.63
1:j:121:ARG:HG2	1:j:248:ASN:HD22	1.64	0.63
1:n:121:ARG:HG2	1:n:248:ASN:HD22	1.64	0.63
1:p:65:VAL:HG22	1:p:188:LEU:HD12	1.81	0.63
1:q:107:PHE:O	1:q:412:ARG:NH1	2.22	0.63
1:y:512:HIS:O	1:y:513:VAL:HG23	1.98	0.63
1:z:121:ARG:HG2	1:z:248:ASN:HD22	1.64	0.63
1:7:65:VAL:HB	1:7:449:MET:HE3	1.81	0.63
1:8:121:ARG:HG2	1:8:248:ASN:HD22	1.64	0.63
1:E:121:ARG:HG2	1:E:248:ASN:HD22	1.64	0.63
1:E:139:ILE:HD11	1:E:467:TYR:HD2	1.64	0.63
1:F:139:ILE:HD11	1:F:467:TYR:HD2	1.64	0.63
1:H:139:ILE:HD11	1:H:467:TYR:HD2	1.64	0.63
1:I:201:ALA:H	1:I:210:GLU:HG2	1.63	0.63
1:N:121:ARG:HG2	1:N:248:ASN:HD22	1.64	0.63
1:4:65:VAL:HB	1:4:449:MET:HE3	1.81	0.63
1:5:139:ILE:HD11	1:5:467:TYR:HD2	1.64	0.63
1:b:107:PHE:HB3	1:b:112:TRP:HB2	1.80	0.63
1:b:201:ALA:H	1:b:210:GLU:HG2	1.63	0.63
1:c:512:HIS:O	1:c:513:VAL:HG23	1.98	0.63
1:g:139:ILE:HD11	1:g:467:TYR:HD2	1.64	0.63
1:h:201:ALA:H	1:h:210:GLU:HG2	1.63	0.63
1:l:456:SER:O	1:r:66:LYS:NZ	2.27	0.63
1:n:139:ILE:HD11	1:n:467:TYR:HD2	1.64	0.63
1:o:65:VAL:HB	1:o:449:MET:HE3	1.81	0.63
1:q:65:VAL:HG22	1:q:188:LEU:HD12	1.81	0.63
1:t:139:ILE:HD11	1:t:467:TYR:HD2	1.64	0.63
1:A:140:LEU:HD11	1:A:149:ASN:ND2	2.14	0.62
1:D:107:PHE:HB3	1:D:112:TRP:HB2	1.79	0.62
1:G:107:PHE:HB3	1:G:112:TRP:HB2	1.79	0.62
1:G:402:ASN:ND2	1:I:430:ASP:O	2.32	0.62
1:J:411:THR:N	1:J:414:ASN:OD1	2.32	0.62
1:L:411:THR:N	1:L:414:ASN:OD1	2.32	0.62
1:M:107:PHE:HB3	1:M:112:TRP:HB2	1.79	0.62
1:P:65:VAL:HB	1:P:449:MET:HE3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:411:THR:N	1:P:414:ASN:OD1	2.32	0.62
1:T:201:ALA:H	1:T:210:GLU:HG2	1.63	0.62
1:Y:107:PHE:O	1:Y:412:ARG:NH1	2.21	0.62
1:2:139:ILE:HD11	1:2:467:TYR:HD2	1.64	0.62
1:2:201:ALA:H	1:2:210:GLU:HG2	1.63	0.62
1:a:140:LEU:HD11	1:a:149:ASN:ND2	2.14	0.62
1:b:411:THR:N	1:b:414:ASN:OD1	2.32	0.62
1:c:411:THR:N	1:c:414:ASN:OD1	2.32	0.62
1:d:411:THR:N	1:d:414:ASN:OD1	2.32	0.62
1:f:201:ALA:H	1:f:210:GLU:HG2	1.63	0.62
1:f:512:HIS:O	1:f:513:VAL:HG23	1.98	0.62
1:l:411:THR:N	1:l:414:ASN:OD1	2.32	0.62
1:m:201:ALA:H	1:m:210:GLU:HG2	1.63	0.62
1:r:139:ILE:HD11	1:r:467:TYR:HD2	1.64	0.62
1:r:201:ALA:H	1:r:210:GLU:HG2	1.63	0.62
1:s:107:PHE:HB3	1:s:112:TRP:HB2	1.80	0.62
1:u:107:PHE:HB3	1:u:112:TRP:HB2	1.79	0.62
1:u:139:ILE:HD11	1:u:467:TYR:HD2	1.64	0.62
1:v:363:THR:OG1	1:v:366:ASP:O	2.14	0.62
1:v:411:THR:N	1:v:414:ASN:OD1	2.32	0.62
1:x:107:PHE:HB3	1:x:112:TRP:HB2	1.80	0.62
1:z:139:ILE:HD11	1:z:467:TYR:HD2	1.64	0.62
1:7:201:ALA:H	1:7:210:GLU:HG2	1.63	0.62
1:8:65:VAL:HB	1:8:449:MET:HE3	1.81	0.62
1:C:107:PHE:O	1:C:412:ARG:NH1	2.21	0.62
1:E:107:PHE:HB3	1:E:112:TRP:HB2	1.79	0.62
1:E:411:THR:N	1:E:414:ASN:OD1	2.32	0.62
1:G:121:ARG:HG2	1:G:248:ASN:HD22	1.64	0.62
1:G:266:THR:HA	1:I:174:ASP:HA	1.80	0.62
1:I:411:THR:N	1:I:414:ASN:OD1	2.32	0.62
1:K:201:ALA:H	1:K:210:GLU:HG2	1.63	0.62
1:M:411:THR:N	1:M:414:ASN:OD1	2.32	0.62
1:Q:65:VAL:HG22	1:Q:188:LEU:HD12	1.81	0.62
1:Q:363:THR:OG1	1:Q:366:ASP:O	2.14	0.62
1:Q:411:THR:N	1:Q:414:ASN:OD1	2.32	0.62
1:1:201:ALA:H	1:1:210:GLU:HG2	1.63	0.62
1:3:140:LEU:HD11	1:3:149:ASN:ND2	2.15	0.62
1:5:107:PHE:HB3	1:5:112:TRP:HB2	1.79	0.62
1:6:107:PHE:HB3	1:6:112:TRP:HB2	1.79	0.62
1:e:65:VAL:HB	1:e:449:MET:HE3	1.81	0.62
1:f:121:ARG:HG2	1:f:248:ASN:HD22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:411:THR:N	1:g:414:ASN:OD1	2.32	0.62
1:h:456:SER:O	1:l:66:LYS:NZ	2.27	0.62
1:i:65:VAL:HB	1:i:449:MET:HE3	1.81	0.62
1:i:411:THR:N	1:i:414:ASN:OD1	2.32	0.62
1:j:201:ALA:H	1:j:210:GLU:HG2	1.63	0.62
1:k:140:LEU:HD11	1:k:149:ASN:ND2	2.15	0.62
1:l:65:VAL:HB	1:l:449:MET:HE3	1.81	0.62
1:o:411:THR:N	1:o:414:ASN:OD1	2.32	0.62
1:p:107:PHE:HB3	1:p:112:TRP:HB2	1.80	0.62
1:s:107:PHE:O	1:s:412:ARG:NH1	2.22	0.62
1:s:411:THR:N	1:s:414:ASN:OD1	2.32	0.62
1:u:121:ARG:HG2	1:u:248:ASN:HD22	1.64	0.62
1:u:411:THR:N	1:u:414:ASN:OD1	2.32	0.62
1:v:65:VAL:HG22	1:v:188:LEU:HD12	1.81	0.62
1:y:121:ARG:HG2	1:y:248:ASN:HD22	1.64	0.62
1:z:411:THR:N	1:z:414:ASN:OD1	2.32	0.62
1:B:65:VAL:HB	1:B:449:MET:HE3	1.81	0.62
1:H:201:ALA:H	1:H:210:GLU:HG2	1.63	0.62
1:I:107:PHE:HB3	1:I:112:TRP:HB2	1.80	0.62
1:M:121:ARG:HG2	1:M:248:ASN:HD22	1.64	0.62
1:O:201:ALA:H	1:O:210:GLU:HG2	1.63	0.62
1:R:107:PHE:HB3	1:R:112:TRP:HB2	1.79	0.62
1:U:121:ARG:HG2	1:U:248:ASN:HD22	1.64	0.62
1:X:107:PHE:O	1:X:412:ARG:NH1	2.21	0.62
1:Z:121:ARG:HG2	1:Z:248:ASN:HD22	1.64	0.62
1:Z:139:ILE:HD11	1:Z:467:TYR:HD2	1.64	0.62
1:h:139:ILE:HD11	1:h:467:TYR:HD2	1.64	0.62
1:h:411:THR:N	1:h:414:ASN:OD1	2.32	0.62
1:m:65:VAL:HG22	1:m:188:LEU:HD12	1.81	0.62
1:n:140:LEU:HD11	1:n:149:ASN:ND2	2.14	0.62
1:s:121:ARG:HG2	1:s:248:ASN:HD22	1.64	0.62
1:u:140:LEU:HD11	1:u:149:ASN:ND2	2.14	0.62
1:x:65:VAL:HG22	1:x:188:LEU:HD12	1.81	0.62
1:7:139:ILE:HD11	1:7:467:TYR:HD2	1.64	0.62
1:7:411:THR:N	1:7:414:ASN:OD1	2.32	0.62
1:A:305:ARG:NH1	1:A:313:THR:O	2.33	0.62
1:E:140:LEU:HD11	1:E:149:ASN:ND2	2.15	0.62
1:J:407:ARG:HE	1:J:430:ASP:HB2	1.65	0.62
1:K:407:ARG:HE	1:K:430:ASP:HB2	1.65	0.62
1:L:121:ARG:HG2	1:L:248:ASN:HD22	1.64	0.62
1:O:121:ARG:HG2	1:O:248:ASN:HD22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:139:ILE:HD11	1:O:467:TYR:HD2	1.64	0.62
1:O:407:ARG:HE	1:O:430:ASP:HB2	1.65	0.62
1:P:139:ILE:HD11	1:P:467:TYR:HD2	1.64	0.62
1:P:201:ALA:H	1:P:210:GLU:HG2	1.63	0.62
1:Q:139:ILE:HD11	1:Q:467:TYR:HD2	1.64	0.62
1:R:65:VAL:HG22	1:R:188:LEU:HD12	1.81	0.62
1:R:140:LEU:HD11	1:R:149:ASN:ND2	2.14	0.62
1:S:121:ARG:HG2	1:S:248:ASN:HD22	1.64	0.62
1:V:140:LEU:HD11	1:V:149:ASN:ND2	2.14	0.62
1:V:305:ARG:NH1	1:V:313:THR:O	2.33	0.62
1:W:411:THR:N	1:W:414:ASN:OD1	2.32	0.62
1:Y:305:ARG:NH1	1:Y:313:THR:O	2.33	0.62
1:3:121:ARG:HG2	1:3:248:ASN:HD22	1.64	0.62
1:6:121:ARG:HG2	1:6:248:ASN:HD22	1.64	0.62
1:a:305:ARG:NH1	1:a:313:THR:O	2.33	0.62
1:c:407:ARG:HE	1:c:430:ASP:HB2	1.65	0.62
1:f:407:ARG:HE	1:f:430:ASP:HB2	1.65	0.62
1:j:65:VAL:HG22	1:j:188:LEU:HD12	1.81	0.62
1:k:121:ARG:HG2	1:k:248:ASN:HD22	1.64	0.62
1:m:516:ASN:OD1	1:m:517:GLY:N	2.32	0.62
1:s:305:ARG:NH1	1:s:313:THR:O	2.33	0.62
1:v:139:ILE:HD11	1:v:467:TYR:HD2	1.64	0.62
1:w:121:ARG:HG2	1:w:248:ASN:HD22	1.64	0.62
1:y:407:ARG:HE	1:y:430:ASP:HB2	1.65	0.62
1:B:139:ILE:HD11	1:B:467:TYR:HD2	1.64	0.62
1:C:140:LEU:HD11	1:C:149:ASN:ND2	2.14	0.62
1:L:407:ARG:HE	1:L:430:ASP:HB2	1.65	0.62
1:M:305:ARG:NH1	1:M:313:THR:O	2.33	0.62
1:N:140:LEU:HD11	1:N:149:ASN:ND2	2.14	0.62
1:N:305:ARG:NH1	1:N:313:THR:O	2.33	0.62
1:U:139:ILE:HD11	1:U:467:TYR:HD2	1.64	0.62
1:X:411:THR:N	1:X:414:ASN:OD1	2.32	0.62
1:1:140:LEU:HD11	1:1:149:ASN:ND2	2.14	0.62
1:3:201:ALA:H	1:3:210:GLU:HG2	1.63	0.62
1:5:201:ALA:H	1:5:210:GLU:HG2	1.63	0.62
1:a:121:ARG:HG2	1:a:248:ASN:HD22	1.64	0.62
1:d:407:ARG:HE	1:d:430:ASP:HB2	1.65	0.62
1:g:65:VAL:HB	1:g:449:MET:HE3	1.81	0.62
1:h:140:LEU:HD11	1:h:149:ASN:ND2	2.15	0.62
1:i:65:VAL:HG22	1:i:188:LEU:HD12	1.81	0.62
1:j:516:ASN:OD1	1:j:517:GLY:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:139:ILE:HD11	1:o:467:TYR:HD2	1.64	0.62
1:p:139:ILE:HD11	1:p:467:TYR:HD2	1.64	0.62
1:p:407:ARG:HE	1:p:430:ASP:HB2	1.65	0.62
1:q:121:ARG:HG2	1:q:248:ASN:HD22	1.64	0.62
1:q:140:LEU:HD11	1:q:149:ASN:ND2	2.14	0.62
1:y:139:ILE:HD11	1:y:467:TYR:HD2	1.64	0.62
1:y:201:ALA:H	1:y:210:GLU:HG2	1.63	0.62
1:7:107:PHE:HB3	1:7:112:TRP:HB2	1.79	0.62
1:7:140:LEU:HD11	1:7:149:ASN:ND2	2.14	0.62
1:A:65:VAL:HG22	1:A:188:LEU:HD12	1.81	0.62
1:C:121:ARG:HG2	1:C:248:ASN:HD22	1.64	0.62
1:D:407:ARG:HE	1:D:430:ASP:HB2	1.65	0.62
1:H:305:ARG:NH1	1:H:313:THR:O	2.33	0.62
1:H:456:SER:O	1:Z:66:LYS:NZ	2.27	0.62
1:I:65:VAL:HB	1:I:449:MET:HE3	1.81	0.62
1:J:305:ARG:NH1	1:J:313:THR:O	2.33	0.62
1:N:201:ALA:H	1:N:210:GLU:HG2	1.63	0.62
1:P:65:VAL:HG22	1:P:188:LEU:HD12	1.81	0.62
1:P:305:ARG:NH1	1:P:313:THR:O	2.33	0.62
1:P:407:ARG:HE	1:P:430:ASP:HB2	1.65	0.62
1:T:140:LEU:HD11	1:T:149:ASN:ND2	2.14	0.62
1:U:140:LEU:HD11	1:U:149:ASN:ND2	2.15	0.62
1:V:456:SER:O	1:W:66:LYS:NZ	2.27	0.62
1:Y:140:LEU:HD11	1:Y:149:ASN:ND2	2.15	0.62
1:Z:140:LEU:HD11	1:Z:149:ASN:ND2	2.14	0.62
1:5:65:VAL:HB	1:5:449:MET:HE3	1.81	0.62
1:a:65:VAL:HG22	1:a:188:LEU:HD12	1.81	0.62
1:b:65:VAL:HB	1:b:449:MET:HE3	1.81	0.62
1:d:121:ARG:HG2	1:d:248:ASN:HD22	1.64	0.62
1:h:107:PHE:HB3	1:h:112:TRP:HB2	1.80	0.62
1:l:65:VAL:HG22	1:l:188:LEU:HD12	1.81	0.62
1:n:305:ARG:NH1	1:n:313:THR:O	2.33	0.62
1:n:516:ASN:OD1	1:n:517:GLY:N	2.32	0.62
1:o:305:ARG:NH1	1:o:313:THR:O	2.33	0.62
1:o:363:THR:OG1	1:o:366:ASP:O	2.14	0.62
1:x:140:LEU:HD11	1:x:149:ASN:ND2	2.15	0.62
1:A:121:ARG:HG2	1:A:248:ASN:HD22	1.64	0.62
1:B:140:LEU:HD11	1:B:149:ASN:ND2	2.15	0.62
1:C:411:THR:N	1:C:414:ASN:OD1	2.32	0.62
1:D:139:ILE:HD11	1:D:467:TYR:HD2	1.64	0.62
1:D:140:LEU:HD11	1:D:149:ASN:ND2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:65:VAL:HG22	1:E:188:LEU:HD12	1.81	0.62
1:E:65:VAL:HB	1:E:449:MET:HE3	1.81	0.62
1:G:140:LEU:HD11	1:G:149:ASN:ND2	2.14	0.62
1:G:305:ARG:NH1	1:G:313:THR:O	2.33	0.62
1:L:65:VAL:HB	1:L:449:MET:HE3	1.81	0.62
1:L:66:LYS:NZ	1:2:456:SER:O	2.27	0.62
1:M:140:LEU:HD11	1:M:149:ASN:ND2	2.15	0.62
1:N:516:ASN:OD1	1:N:517:GLY:N	2.32	0.62
1:T:516:ASN:OD1	1:T:517:GLY:N	2.32	0.62
1:U:65:VAL:HB	1:U:449:MET:HE3	1.81	0.62
1:U:66:LYS:NZ	1:5:456:SER:O	2.27	0.62
1:W:305:ARG:NH1	1:W:313:THR:O	2.33	0.62
1:2:363:THR:OG1	1:2:366:ASP:O	2.14	0.62
1:5:305:ARG:NH1	1:5:313:THR:O	2.33	0.62
1:6:201:ALA:H	1:6:210:GLU:HG2	1.63	0.62
1:c:305:ARG:NH1	1:c:313:THR:O	2.33	0.62
1:d:65:VAL:HB	1:d:449:MET:HE3	1.81	0.62
1:d:305:ARG:NH1	1:d:313:THR:O	2.33	0.62
1:e:139:ILE:HD11	1:e:467:TYR:HD2	1.64	0.62
1:e:140:LEU:HD11	1:e:149:ASN:ND2	2.14	0.62
1:j:411:THR:N	1:j:414:ASN:OD1	2.32	0.62
1:k:201:ALA:H	1:k:210:GLU:HG2	1.63	0.62
1:l:107:PHE:HB3	1:l:112:TRP:HB2	1.79	0.62
1:n:201:ALA:H	1:n:210:GLU:HG2	1.63	0.62
1:o:407:ARG:HE	1:o:430:ASP:HB2	1.65	0.62
1:q:411:THR:N	1:q:414:ASN:OD1	2.32	0.62
1:s:140:LEU:HD11	1:s:149:ASN:ND2	2.15	0.62
1:u:65:VAL:HB	1:u:449:MET:HE3	1.81	0.62
1:u:65:VAL:HG22	1:u:188:LEU:HD12	1.81	0.62
1:u:363:THR:OG1	1:u:366:ASP:O	2.14	0.62
1:y:411:THR:N	1:y:414:ASN:OD1	2.32	0.62
1:z:65:VAL:HB	1:z:449:MET:HE3	1.81	0.62
1:8:65:VAL:HG22	1:8:188:LEU:HD12	1.81	0.62
1:B:411:THR:N	1:B:414:ASN:OD1	2.32	0.62
1:E:421:PRO:HG2	1:F:404:ILE:HD13	1.82	0.62
1:F:121:ARG:HG2	1:F:248:ASN:HD22	1.64	0.62
1:H:65:VAL:HB	1:H:449:MET:HE3	1.81	0.62
1:J:65:VAL:HB	1:J:449:MET:HE3	1.81	0.62
1:K:404:ILE:HD13	1:I:421:PRO:HG2	1.82	0.62
1:L:305:ARG:NH1	1:L:313:THR:O	2.33	0.62
1:M:453:PRO:HB2	1:3:64:LEU:HD23	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:140:LEU:HD11	1:O:149:ASN:ND2	2.14	0.62
1:O:411:THR:N	1:O:414:ASN:OD1	2.32	0.62
1:R:407:ARG:HE	1:R:430:ASP:HB2	1.65	0.62
1:V:139:ILE:HD11	1:V:467:TYR:HD2	1.64	0.62
1:2:65:VAL:HG22	1:2:188:LEU:HD12	1.81	0.62
1:3:65:VAL:HB	1:3:449:MET:HE3	1.81	0.62
1:4:65:VAL:HG22	1:4:188:LEU:HD12	1.81	0.62
1:6:140:LEU:HD11	1:6:149:ASN:ND2	2.14	0.62
1:6:305:ARG:NH1	1:6:313:THR:O	2.33	0.62
1:a:66:LYS:NZ	1:u:456:SER:O	2.27	0.62
1:a:411:THR:N	1:a:414:ASN:OD1	2.32	0.62
1:b:139:ILE:HD11	1:b:467:TYR:HD2	1.64	0.62
1:d:65:VAL:HG22	1:d:188:LEU:HD12	1.81	0.62
1:i:107:PHE:HB3	1:i:112:TRP:HB2	1.80	0.62
1:i:201:ALA:H	1:i:210:GLU:HG2	1.63	0.62
1:j:305:ARG:NH1	1:j:313:THR:O	2.33	0.62
1:k:64:LEU:HD23	1:s:453:PRO:HB2	1.82	0.62
1:k:305:ARG:NH1	1:k:313:THR:O	2.33	0.62
1:l:139:ILE:HD11	1:l:467:TYR:HD2	1.64	0.62
1:l:140:LEU:HD11	1:l:149:ASN:ND2	2.14	0.62
1:l:201:ALA:H	1:l:210:GLU:HG2	1.63	0.62
1:m:305:ARG:NH1	1:m:313:THR:O	2.33	0.62
1:m:411:THR:N	1:m:414:ASN:OD1	2.32	0.62
1:o:65:VAL:HG22	1:o:188:LEU:HD12	1.81	0.62
1:r:65:VAL:HG22	1:r:188:LEU:HD12	1.81	0.62
1:t:121:ARG:HG2	1:t:248:ASN:HD22	1.64	0.62
1:y:140:LEU:HD11	1:y:149:ASN:ND2	2.14	0.62
1:A:411:THR:N	1:A:414:ASN:OD1	2.32	0.62
1:B:121:ARG:HG2	1:B:248:ASN:HD22	1.64	0.62
1:B:407:ARG:HE	1:B:430:ASP:HB2	1.65	0.62
1:L:65:VAL:HG22	1:L:188:LEU:HD12	1.81	0.62
1:O:516:ASN:OD1	1:O:517:GLY:N	2.32	0.62
1:P:363:THR:OG1	1:P:366:ASP:O	2.14	0.62
1:P:516:ASN:OD1	1:P:517:GLY:N	2.32	0.62
1:S:140:LEU:HD11	1:S:149:ASN:ND2	2.14	0.62
1:T:121:ARG:HG2	1:T:248:ASN:HD22	1.64	0.62
1:T:421:PRO:HG2	1:f:404:ILE:HD13	1.82	0.62
1:W:139:ILE:HD11	1:W:467:TYR:HD2	1.64	0.62
1:X:139:ILE:HD11	1:X:467:TYR:HD2	1.64	0.62
1:X:305:ARG:NH1	1:X:313:THR:O	2.33	0.62
1:1:516:ASN:OD1	1:1:517:GLY:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:411:THR:N	1:2:414:ASN:OD1	2.32	0.62
1:3:305:ARG:NH1	1:3:313:THR:O	2.33	0.62
1:c:65:VAL:HB	1:c:449:MET:HE3	1.81	0.62
1:d:66:LYS:NZ	1:r:456:SER:O	2.27	0.62
1:d:140:LEU:HD11	1:d:149:ASN:ND2	2.14	0.62
1:e:411:THR:N	1:e:414:ASN:OD1	2.32	0.62
1:i:140:LEU:HD11	1:i:149:ASN:ND2	2.14	0.62
1:l:453:PRO:HB2	1:r:64:LEU:HD23	1.82	0.62
1:o:201:ALA:H	1:o:210:GLU:HG2	1.63	0.62
1:p:140:LEU:HD11	1:p:149:ASN:ND2	2.15	0.62
1:q:139:ILE:HD11	1:q:467:TYR:HD2	1.64	0.62
1:w:140:LEU:HD11	1:w:149:ASN:ND2	2.14	0.62
1:C:139:ILE:HD11	1:C:467:TYR:HD2	1.64	0.62
1:C:305:ARG:NH1	1:C:313:THR:O	2.33	0.62
1:E:305:ARG:NH1	1:E:313:THR:O	2.33	0.62
1:G:65:VAL:HB	1:G:449:MET:HE3	1.81	0.62
1:H:516:ASN:CG	1:H:517:GLY:H	2.08	0.62
1:I:121:ARG:HG2	1:I:248:ASN:HD22	1.64	0.62
1:I:139:ILE:HD11	1:I:467:TYR:HD2	1.64	0.62
1:K:65:VAL:HB	1:K:449:MET:HE3	1.81	0.62
1:K:305:ARG:NH1	1:K:313:THR:O	2.33	0.62
1:O:65:VAL:HG22	1:O:188:LEU:HD12	1.81	0.62
1:V:65:VAL:HB	1:V:449:MET:HE3	1.81	0.62
1:Y:139:ILE:HD11	1:Y:467:TYR:HD2	1.64	0.62
1:Z:65:VAL:HB	1:Z:449:MET:HE3	1.81	0.62
1:Z:411:THR:N	1:Z:414:ASN:OD1	2.32	0.62
1:5:516:ASN:CG	1:5:517:GLY:H	2.08	0.62
1:e:407:ARG:HE	1:e:430:ASP:HB2	1.65	0.62
1:f:305:ARG:NH1	1:f:313:THR:O	2.33	0.62
1:g:65:VAL:HG22	1:g:188:LEU:HD12	1.81	0.62
1:g:407:ARG:HE	1:g:430:ASP:HB2	1.65	0.62
1:i:64:LEU:HD23	1:7:453:PRO:HB2	1.82	0.62
1:i:139:ILE:HD11	1:i:467:TYR:HD2	1.64	0.62
1:j:453:PRO:HB2	1:z:64:LEU:HD23	1.82	0.62
1:k:65:VAL:HB	1:k:449:MET:HE3	1.81	0.62
1:p:65:VAL:HB	1:p:449:MET:HE3	1.81	0.62
1:p:305:ARG:NH1	1:p:313:THR:O	2.33	0.62
1:p:411:THR:N	1:p:414:ASN:OD1	2.32	0.62
1:q:305:ARG:NH1	1:q:313:THR:O	2.33	0.62
1:q:363:THR:OG1	1:q:366:ASP:O	2.14	0.62
1:r:140:LEU:HD11	1:r:149:ASN:ND2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:305:ARG:NH1	1:r:313:THR:O	2.33	0.62
1:r:411:THR:N	1:r:414:ASN:OD1	2.32	0.62
1:t:140:LEU:HD11	1:t:149:ASN:ND2	2.14	0.62
1:t:404:ILE:HD13	1:u:421:PRO:HG2	1.82	0.62
1:t:516:ASN:CG	1:t:517:GLY:H	2.08	0.62
1:x:407:ARG:HE	1:x:430:ASP:HB2	1.65	0.62
1:y:65:VAL:HG22	1:y:188:LEU:HD12	1.81	0.62
1:y:456:SER:O	1:8:66:LYS:NZ	2.26	0.62
1:7:407:ARG:HE	1:7:430:ASP:HB2	1.65	0.62
1:7:516:ASN:CG	1:7:517:GLY:H	2.08	0.62
1:D:305:ARG:NH1	1:D:313:THR:O	2.33	0.61
1:F:305:ARG:NH1	1:F:313:THR:O	2.33	0.61
1:F:516:ASN:CG	1:F:517:GLY:H	2.08	0.61
1:G:201:ALA:H	1:G:210:GLU:HG2	1.64	0.61
1:K:65:VAL:HG22	1:K:188:LEU:HD12	1.81	0.61
1:K:140:LEU:HD11	1:K:149:ASN:ND2	2.14	0.61
1:L:140:LEU:HD11	1:L:149:ASN:ND2	2.14	0.61
1:M:65:VAL:HB	1:M:449:MET:HE3	1.81	0.61
1:M:139:ILE:HD11	1:M:467:TYR:HD2	1.64	0.61
1:M:201:ALA:H	1:M:210:GLU:HG2	1.63	0.61
1:N:516:ASN:CG	1:N:517:GLY:H	2.08	0.61
1:O:305:ARG:NH1	1:O:313:THR:O	2.33	0.61
1:O:453:PRO:HB2	1:4:64:LEU:HD23	1.82	0.61
1:S:65:VAL:HB	1:S:449:MET:HE3	1.81	0.61
1:T:516:ASN:CG	1:T:517:GLY:H	2.08	0.61
1:U:411:THR:N	1:U:414:ASN:OD1	2.32	0.61
1:Z:305:ARG:NH1	1:Z:313:THR:O	2.33	0.61
1:1:121:ARG:HG2	1:1:248:ASN:HD22	1.64	0.61
1:2:140:LEU:HD11	1:2:149:ASN:ND2	2.15	0.61
1:2:407:ARG:HE	1:2:430:ASP:HB2	1.65	0.61
1:3:404:ILE:HD13	1:i:421:PRO:HG2	1.82	0.61
1:3:421:PRO:HG2	1:j:404:ILE:HD13	1.82	0.61
1:3:516:ASN:CG	1:3:517:GLY:H	2.08	0.61
1:5:65:VAL:HG22	1:5:188:LEU:HD12	1.81	0.61
1:5:407:ARG:HE	1:5:430:ASP:HB2	1.65	0.61
1:a:107:PHE:O	1:a:412:ARG:NH1	2.22	0.61
1:f:65:VAL:HB	1:f:449:MET:HE3	1.81	0.61
1:f:140:LEU:HD11	1:f:149:ASN:ND2	2.14	0.61
1:g:64:LEU:HD23	1:m:453:PRO:HB2	1.82	0.61
1:h:407:ARG:HE	1:h:430:ASP:HB2	1.65	0.61
1:h:453:PRO:HB2	1:l:64:LEU:HD23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:516:ASN:CG	1:h:517:GLY:H	2.08	0.61
1:k:404:ILE:HD13	1:l:421:PRO:HG2	1.82	0.61
1:k:516:ASN:CG	1:k:517:GLY:H	2.08	0.61
1:n:64:LEU:HD23	1:z:453:PRO:HB2	1.82	0.61
1:n:516:ASN:CG	1:n:517:GLY:H	2.08	0.61
1:o:516:ASN:OD1	1:o:517:GLY:N	2.32	0.61
1:p:64:LEU:HD23	1:q:453:PRO:HB2	1.82	0.61
1:s:65:VAL:HB	1:s:449:MET:HE3	1.81	0.61
1:t:65:VAL:HB	1:t:449:MET:HE3	1.81	0.61
1:t:305:ARG:NH1	1:t:313:THR:O	2.33	0.61
1:u:305:ARG:NH1	1:u:313:THR:O	2.33	0.61
1:v:65:VAL:HB	1:v:449:MET:HE3	1.81	0.61
1:w:65:VAL:HB	1:w:449:MET:HE3	1.81	0.61
1:y:305:ARG:NH1	1:y:313:THR:O	2.33	0.61
1:y:516:ASN:CG	1:y:517:GLY:H	2.08	0.61
1:z:65:VAL:HG22	1:z:188:LEU:HD12	1.81	0.61
1:z:407:ARG:HE	1:z:430:ASP:HB2	1.65	0.61
1:8:407:ARG:HE	1:8:430:ASP:HB2	1.65	0.61
1:A:107:PHE:O	1:A:412:ARG:NH1	2.21	0.61
1:B:305:ARG:NH1	1:B:313:THR:O	2.33	0.61
1:D:65:VAL:HB	1:D:449:MET:HE3	1.81	0.61
1:D:411:THR:N	1:D:414:ASN:OD1	2.32	0.61
1:F:140:LEU:HD11	1:F:149:ASN:ND2	2.15	0.61
1:H:65:VAL:HG22	1:H:188:LEU:HD12	1.81	0.61
1:H:407:ARG:HE	1:H:430:ASP:HB2	1.65	0.61
1:J:65:VAL:HG22	1:J:188:LEU:HD12	1.81	0.61
1:J:139:ILE:HD11	1:J:467:TYR:HD2	1.64	0.61
1:K:516:ASN:CG	1:K:517:GLY:H	2.08	0.61
1:M:66:LYS:NZ	1:N:456:SER:O	2.27	0.61
1:N:64:LEU:HD23	1:g:453:PRO:HB2	1.82	0.61
1:N:407:ARG:HE	1:N:430:ASP:HB2	1.65	0.61
1:S:305:ARG:NH1	1:S:313:THR:O	2.33	0.61
1:T:363:THR:OG1	1:T:366:ASP:O	2.14	0.61
1:U:305:ARG:NH1	1:U:313:THR:O	2.33	0.61
1:V:65:VAL:HG22	1:V:188:LEU:HD12	1.81	0.61
1:Y:65:VAL:HB	1:Y:449:MET:HE3	1.81	0.61
1:1:407:ARG:HE	1:1:430:ASP:HB2	1.65	0.61
1:2:64:LEU:HD23	1:i:453:PRO:HB2	1.82	0.61
1:2:305:ARG:NH1	1:2:313:THR:O	2.33	0.61
1:4:404:ILE:HD13	1:f:421:PRO:HG2	1.82	0.61
1:6:421:PRO:HG2	1:a:404:ILE:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:516:ASN:CG	1:6:517:GLY:H	2.08	0.61
1:a:407:ARG:HE	1:a:430:ASP:HB2	1.65	0.61
1:a:421:PRO:HG2	1:b:404:ILE:HD13	1.82	0.61
1:b:121:ARG:HG2	1:b:248:ASN:HD22	1.64	0.61
1:c:65:VAL:HG22	1:c:188:LEU:HD12	1.81	0.61
1:e:121:ARG:HG2	1:e:248:ASN:HD22	1.64	0.61
1:f:65:VAL:HG22	1:f:188:LEU:HD12	1.81	0.61
1:g:516:ASN:OD1	1:g:517:GLY:N	2.32	0.61
1:h:305:ARG:NH1	1:h:313:THR:O	2.33	0.61
1:i:121:ARG:HG2	1:i:248:ASN:HD22	1.64	0.61
1:k:421:PRO:HG2	1:m:404:ILE:HD13	1.82	0.61
1:l:121:ARG:HG2	1:l:248:ASN:HD22	1.64	0.61
1:n:407:ARG:HE	1:n:430:ASP:HB2	1.65	0.61
1:n:453:PRO:HB2	1:s:64:LEU:HD23	1.82	0.61
1:r:407:ARG:HE	1:r:430:ASP:HB2	1.65	0.61
1:s:65:VAL:HG22	1:s:188:LEU:HD12	1.81	0.61
1:s:139:ILE:HD11	1:s:467:TYR:HD2	1.64	0.61
1:s:201:ALA:H	1:s:210:GLU:HG2	1.63	0.61
1:x:121:ARG:HG2	1:x:248:ASN:HD22	1.64	0.61
1:x:516:ASN:CG	1:x:517:GLY:H	2.08	0.61
1:y:453:PRO:HB2	1:8:64:LEU:HD23	1.82	0.61
1:y:516:ASN:OD1	1:y:517:GLY:N	2.32	0.61
1:z:140:LEU:HD11	1:z:149:ASN:ND2	2.14	0.61
1:7:65:VAL:HG22	1:7:188:LEU:HD12	1.81	0.61
1:7:305:ARG:NH1	1:7:313:THR:O	2.33	0.61
1:8:139:ILE:HD11	1:8:467:TYR:HD2	1.64	0.61
1:8:140:LEU:HD11	1:8:149:ASN:ND2	2.14	0.61
1:A:421:PRO:HG2	1:I:404:ILE:HD13	1.82	0.61
1:C:453:PRO:HB2	1:D:64:LEU:HD23	1.82	0.61
1:D:121:ARG:HG2	1:D:248:ASN:HD22	1.64	0.61
1:G:411:THR:N	1:G:414:ASN:OD1	2.32	0.61
1:G:516:ASN:CG	1:G:517:GLY:H	2.08	0.61
1:J:121:ARG:HG2	1:J:248:ASN:HD22	1.64	0.61
1:K:411:THR:N	1:K:414:ASN:OD1	2.32	0.61
1:K:421:PRO:HG2	1:8:404:ILE:HD13	1.82	0.61
1:L:64:LEU:HD23	1:2:453:PRO:HB2	1.82	0.61
1:M:65:VAL:HG22	1:M:188:LEU:HD12	1.81	0.61
1:O:516:ASN:CG	1:O:517:GLY:H	2.08	0.61
1:P:140:LEU:HD11	1:P:149:ASN:ND2	2.14	0.61
1:R:121:ARG:HG2	1:R:248:ASN:HD22	1.64	0.61
1:R:139:ILE:HD11	1:R:467:TYR:HD2	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:516:ASN:CG	1:R:517:GLY:H	2.08	0.61
1:U:407:ARG:HE	1:U:430:ASP:HB2	1.65	0.61
1:V:404:ILE:HD13	1:5:421:PRO:HG2	1.82	0.61
1:W:140:LEU:HD11	1:W:149:ASN:ND2	2.15	0.61
1:Y:65:VAL:HG22	1:Y:188:LEU:HD12	1.81	0.61
1:1:516:ASN:CG	1:1:517:GLY:H	2.08	0.61
1:2:65:VAL:HB	1:2:449:MET:HE3	1.81	0.61
1:4:139:ILE:HD11	1:4:467:TYR:HD2	1.64	0.61
1:4:140:LEU:HD11	1:4:149:ASN:ND2	2.14	0.61
1:4:407:ARG:HE	1:4:430:ASP:HB2	1.65	0.61
1:6:65:VAL:HB	1:6:449:MET:HE3	1.81	0.61
1:d:456:SER:O	1:f:66:LYS:NZ	2.27	0.61
1:e:305:ARG:NH1	1:e:313:THR:O	2.33	0.61
1:f:411:THR:N	1:f:414:ASN:OD1	2.32	0.61
1:f:516:ASN:CG	1:f:517:GLY:H	2.08	0.61
1:g:140:LEU:HD11	1:g:149:ASN:ND2	2.14	0.61
1:h:65:VAL:HG22	1:h:188:LEU:HD12	1.81	0.61
1:h:107:PHE:O	1:h:412:ARG:NH1	2.21	0.61
1:k:411:THR:N	1:k:414:ASN:OD1	2.32	0.61
1:m:140:LEU:HD11	1:m:149:ASN:ND2	2.15	0.61
1:r:65:VAL:HB	1:r:449:MET:HE3	1.81	0.61
1:w:411:THR:N	1:w:414:ASN:OD1	2.32	0.61
1:w:516:ASN:OD1	1:w:517:GLY:N	2.32	0.61
1:A:407:ARG:HE	1:A:430:ASP:HB2	1.65	0.61
1:B:404:ILE:HD13	1:J:421:PRO:HG2	1.82	0.61
1:B:421:PRO:HG2	1:L:404:ILE:HD13	1.82	0.61
1:C:77:SER:HA	1:C:89:ARG:HA	1.83	0.61
1:C:363:THR:OG1	1:C:366:ASP:O	2.14	0.61
1:F:65:VAL:HB	1:F:449:MET:HE3	1.81	0.61
1:G:490:PRO:HB2	1:H:496:ALA:HB2	1.83	0.61
1:H:121:ARG:HG2	1:H:248:ASN:HD22	1.64	0.61
1:H:411:THR:N	1:H:414:ASN:OD1	2.32	0.61
1:K:64:LEU:HD23	1:L:453:PRO:HB2	1.82	0.61
1:K:66:LYS:NZ	1:L:456:SER:O	2.27	0.61
1:K:453:PRO:HB2	1:7:64:LEU:HD23	1.82	0.61
1:M:64:LEU:HD23	1:N:453:PRO:HB2	1.82	0.61
1:M:516:ASN:CG	1:M:517:GLY:H	2.08	0.61
1:N:107:PHE:O	1:N:412:ARG:NH1	2.22	0.61
1:Q:65:VAL:HB	1:Q:449:MET:HE3	1.81	0.61
1:S:411:THR:N	1:S:414:ASN:OD1	2.32	0.61
1:T:407:ARG:HE	1:T:430:ASP:HB2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:140:LEU:HD11	1:X:149:ASN:ND2	2.14	0.61
1:3:411:THR:N	1:3:414:ASN:OD1	2.32	0.61
1:6:411:THR:N	1:6:414:ASN:OD1	2.32	0.61
1:a:453:PRO:HB2	1:e:64:LEU:HD23	1.82	0.61
1:d:64:LEU:HD23	1:r:453:PRO:HB2	1.82	0.61
1:d:453:PRO:HB2	1:f:64:LEU:HD23	1.82	0.61
1:j:139:ILE:HD11	1:j:467:TYR:HD2	1.64	0.61
1:j:140:LEU:HD11	1:j:149:ASN:ND2	2.15	0.61
1:m:139:ILE:HD11	1:m:467:TYR:HD2	1.64	0.61
1:o:404:ILE:HD13	1:p:421:PRO:HG2	1.82	0.61
1:p:121:ARG:HG2	1:p:248:ASN:HD22	1.64	0.61
1:q:77:SER:HA	1:q:89:ARG:HA	1.83	0.61
1:s:516:ASN:CG	1:s:517:GLY:H	2.08	0.61
1:v:305:ARG:NH1	1:v:313:THR:O	2.33	0.61
1:w:305:ARG:NH1	1:w:313:THR:O	2.33	0.61
1:z:516:ASN:OD1	1:z:517:GLY:N	2.32	0.61
1:D:421:PRO:HG2	1:P:404:ILE:HD13	1.82	0.61
1:I:64:LEU:HD23	1:J:453:PRO:HB2	1.82	0.61
1:O:421:PRO:HG2	1:h:404:ILE:HD13	1.82	0.61
1:P:121:ARG:HG2	1:P:248:ASN:HD22	1.64	0.61
1:P:516:ASN:CG	1:P:517:GLY:H	2.08	0.61
1:Q:305:ARG:NH1	1:Q:313:THR:O	2.33	0.61
1:R:421:PRO:HG2	1:U:404:ILE:HD13	1.83	0.61
1:S:516:ASN:OD1	1:S:517:GLY:N	2.32	0.61
1:Z:407:ARG:HE	1:Z:430:ASP:HB2	1.65	0.61
1:1:363:THR:OG1	1:1:366:ASP:O	2.14	0.61
1:5:411:THR:N	1:5:414:ASN:OD1	2.32	0.61
1:6:407:ARG:HE	1:6:430:ASP:HB2	1.65	0.61
1:c:139:ILE:HD11	1:c:467:TYR:HD2	1.64	0.61
1:c:421:PRO:HG2	1:e:404:ILE:HD13	1.82	0.61
1:d:404:ILE:HD13	1:e:421:PRO:HG2	1.82	0.61
1:j:66:LYS:NZ	1:k:456:SER:O	2.27	0.61
1:j:407:ARG:HE	1:j:430:ASP:HB2	1.65	0.61
1:l:305:ARG:NH1	1:l:313:THR:O	2.33	0.61
1:o:140:LEU:HD11	1:o:149:ASN:ND2	2.14	0.61
1:o:453:PRO:HB2	1:y:64:LEU:HD23	1.83	0.61
1:o:516:ASN:CG	1:o:517:GLY:H	2.08	0.61
1:x:139:ILE:HD11	1:x:467:TYR:HD2	1.64	0.61
1:L:139:ILE:HD11	1:L:467:TYR:HD2	1.64	0.61
1:P:77:SER:HA	1:P:89:ARG:HA	1.83	0.61
1:R:305:ARG:NH1	1:R:313:THR:O	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:305:ARG:NH1	1:T:313:THR:O	2.33	0.61
1:Z:404:ILE:HD13	1:x:421:PRO:HG2	1.83	0.61
1:3:77:SER:HA	1:3:89:ARG:HA	1.83	0.61
1:c:121:ARG:HG2	1:c:248:ASN:HD22	1.64	0.61
1:c:140:LEU:HD11	1:c:149:ASN:ND2	2.15	0.61
1:f:77:SER:HA	1:f:89:ARG:HA	1.83	0.61
1:f:453:PRO:HB2	1:h:64:LEU:HD23	1.82	0.61
1:i:305:ARG:NH1	1:i:313:THR:O	2.33	0.61
1:k:77:SER:HA	1:k:89:ARG:HA	1.83	0.61
1:k:139:ILE:HD11	1:k:467:TYR:HD2	1.64	0.61
1:l:404:ILE:HD13	1:m:421:PRO:HG2	1.82	0.61
1:m:407:ARG:HE	1:m:430:ASP:HB2	1.65	0.61
1:n:456:SER:O	1:s:66:LYS:NZ	2.27	0.61
1:x:411:THR:N	1:x:414:ASN:OD1	2.32	0.61
1:z:305:ARG:NH1	1:z:313:THR:O	2.33	0.61
1:7:107:PHE:O	1:7:412:ARG:NH1	2.21	0.61
1:E:407:ARG:HE	1:E:430:ASP:HB2	1.65	0.61
1:E:516:ASN:OD1	1:E:517:GLY:N	2.32	0.61
1:G:77:SER:HA	1:G:89:ARG:HA	1.83	0.61
1:G:407:ARG:HE	1:G:430:ASP:HB2	1.65	0.61
1:H:140:LEU:HD11	1:H:149:ASN:ND2	2.14	0.61
1:H:421:PRO:HG2	1:Y:404:ILE:HD13	1.82	0.61
1:I:140:LEU:HD11	1:I:149:ASN:ND2	2.14	0.61
1:J:107:PHE:O	1:J:412:ARG:NH1	2.21	0.61
1:P:64:LEU:HD23	1:Q:453:PRO:HB2	1.82	0.61
1:T:64:LEU:HD23	1:U:453:PRO:HB2	1.82	0.61
1:T:77:SER:HA	1:T:89:ARG:HA	1.83	0.61
1:U:77:SER:HA	1:U:89:ARG:HA	1.83	0.61
1:1:305:ARG:NH1	1:1:313:THR:O	2.33	0.61
1:4:305:ARG:NH1	1:4:313:THR:O	2.33	0.61
1:5:121:ARG:HG2	1:5:248:ASN:HD22	1.64	0.61
1:b:140:LEU:HD11	1:b:149:ASN:ND2	2.15	0.61
1:c:107:PHE:O	1:c:412:ARG:NH1	2.21	0.61
1:g:305:ARG:NH1	1:g:313:THR:O	2.33	0.61
1:i:404:ILE:HD13	1:j:421:PRO:HG2	1.82	0.61
1:i:407:ARG:HE	1:i:430:ASP:HB2	1.65	0.61
1:o:121:ARG:HG2	1:o:248:ASN:HD22	1.64	0.61
1:s:407:ARG:HE	1:s:430:ASP:HB2	1.65	0.61
1:v:121:ARG:HG2	1:v:248:ASN:HD22	1.64	0.61
1:x:305:ARG:NH1	1:x:313:THR:O	2.33	0.61
1:B:77:SER:HA	1:B:89:ARG:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:453:PRO:HB2	1:C:64:LEU:HD23	1.82	0.61
1:D:404:ILE:HD13	1:N:421:PRO:HG2	1.82	0.61
1:D:453:PRO:HB2	1:E:64:LEU:HD23	1.82	0.61
1:F:421:PRO:HG2	1:Q:404:ILE:HD13	1.83	0.61
1:J:64:LEU:HD23	1:I:453:PRO:HB2	1.82	0.61
1:J:140:LEU:HD11	1:J:149:ASN:ND2	2.15	0.61
1:R:411:THR:N	1:R:414:ASN:OD1	2.32	0.61
1:S:139:ILE:HD11	1:S:467:TYR:HD2	1.64	0.61
1:T:139:ILE:HD11	1:T:467:TYR:HD2	1.64	0.61
1:T:453:PRO:HB2	1:c:64:LEU:HD23	1.82	0.61
1:U:516:ASN:CG	1:U:517:GLY:H	2.08	0.61
1:V:407:ARG:HE	1:V:430:ASP:HB2	1.65	0.61
1:Y:411:THR:N	1:Y:414:ASN:OD1	2.32	0.61
1:Z:77:SER:HA	1:Z:89:ARG:HA	1.83	0.61
1:Z:453:PRO:HB2	1:I:64:LEU:HD23	1.82	0.61
1:Z:516:ASN:CG	1:Z:517:GLY:H	2.08	0.61
1:I:77:SER:HA	1:I:89:ARG:HA	1.83	0.61
1:2:121:ARG:HG2	1:2:248:ASN:HD22	1.64	0.61
1:3:139:ILE:HD11	1:3:467:TYR:HD2	1.64	0.61
1:3:407:ARG:HE	1:3:430:ASP:HB2	1.65	0.61
1:4:411:THR:N	1:4:414:ASN:OD1	2.32	0.61
1:5:140:LEU:HD11	1:5:149:ASN:ND2	2.14	0.61
1:6:139:ILE:HD11	1:6:467:TYR:HD2	1.64	0.61
1:d:139:ILE:HD11	1:d:467:TYR:HD2	1.64	0.61
1:n:107:PHE:O	1:n:412:ARG:NH1	2.21	0.61
1:n:421:PRO:HG2	1:p:404:ILE:HD13	1.83	0.61
1:o:64:LEU:HD23	1:v:453:PRO:HB2	1.82	0.61
1:o:77:SER:HA	1:o:89:ARG:HA	1.83	0.61
1:p:453:PRO:HB2	1:u:64:LEU:HD23	1.82	0.61
1:r:121:ARG:HG2	1:r:248:ASN:HD22	1.64	0.61
1:u:407:ARG:HE	1:u:430:ASP:HB2	1.65	0.61
1:v:140:LEU:HD11	1:v:149:ASN:ND2	2.14	0.61
1:w:139:ILE:HD11	1:w:467:TYR:HD2	1.64	0.61
1:w:516:ASN:CG	1:w:517:GLY:H	2.08	0.61
1:8:305:ARG:NH1	1:8:313:THR:O	2.33	0.61
1:A:453:PRO:HB2	1:B:64:LEU:HD23	1.82	0.61
1:C:65:VAL:HB	1:C:449:MET:HE3	1.81	0.61
1:G:139:ILE:HD11	1:G:467:TYR:HD2	1.64	0.61
1:K:77:SER:HA	1:K:89:ARG:HA	1.83	0.61
1:Q:121:ARG:HG2	1:Q:248:ASN:HD22	1.64	0.61
1:Q:140:LEU:HD11	1:Q:149:ASN:ND2	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:64:LEU:HD23	1:4:453:PRO:HB2	1.82	0.61
1:S:407:ARG:HE	1:S:430:ASP:HB2	1.65	0.61
1:S:516:ASN:CG	1:S:517:GLY:H	2.08	0.61
1:X:421:PRO:HG2	1:5:404:ILE:HD13	1.82	0.61
1:Y:77:SER:HA	1:Y:89:ARG:HA	1.83	0.61
1:3:456:SER:O	1:m:66:LYS:NZ	2.27	0.61
1:6:77:SER:HA	1:6:89:ARG:HA	1.83	0.61
1:6:107:PHE:O	1:6:412:ARG:NH1	2.21	0.61
1:b:64:LEU:HD23	1:c:453:PRO:HB2	1.82	0.61
1:c:77:SER:HA	1:c:89:ARG:HA	1.83	0.61
1:e:77:SER:HA	1:e:89:ARG:HA	1.83	0.61
1:e:453:PRO:HB2	1:q:64:LEU:HD23	1.82	0.61
1:l:407:ARG:HE	1:l:430:ASP:HB2	1.65	0.61
1:q:65:VAL:HB	1:q:449:MET:HE3	1.81	0.61
1:r:404:ILE:HD13	1:s:421:PRO:HG2	1.83	0.61
1:r:516:ASN:OD1	1:r:517:GLY:N	2.32	0.61
1:t:421:PRO:HG2	1:v:404:ILE:HD13	1.82	0.61
1:v:407:ARG:HE	1:v:430:ASP:HB2	1.65	0.61
1:w:407:ARG:HE	1:w:430:ASP:HB2	1.65	0.61
1:8:411:THR:N	1:8:414:ASN:OD1	2.32	0.61
1:A:77:SER:HA	1:A:89:ARG:HA	1.83	0.61
1:C:516:ASN:OD1	1:C:517:GLY:N	2.32	0.61
1:E:77:SER:HA	1:E:89:ARG:HA	1.83	0.61
1:G:65:VAL:HG22	1:G:188:LEU:HD12	1.81	0.61
1:H:516:ASN:OD1	1:H:517:GLY:N	2.32	0.61
1:I:516:ASN:CG	1:I:517:GLY:H	2.08	0.61
1:J:77:SER:HA	1:J:89:ARG:HA	1.83	0.61
1:J:404:ILE:HD13	1:L:421:PRO:HG2	1.82	0.61
1:L:77:SER:HA	1:L:89:ARG:HA	1.83	0.61
1:M:407:ARG:HE	1:M:430:ASP:HB2	1.65	0.61
1:O:64:LEU:HD23	1:P:453:PRO:HB2	1.83	0.61
1:V:411:THR:N	1:V:414:ASN:OD1	2.32	0.61
1:1:139:ILE:HD11	1:1:467:TYR:HD2	1.64	0.61
1:1:411:THR:N	1:1:414:ASN:OD1	2.32	0.61
1:2:516:ASN:OD1	1:2:517:GLY:N	2.32	0.61
1:a:77:SER:HA	1:a:89:ARG:HA	1.83	0.61
1:a:139:ILE:HD11	1:a:467:TYR:HD2	1.64	0.61
1:b:516:ASN:CG	1:b:517:GLY:H	2.08	0.61
1:c:404:ILE:HD13	1:d:421:PRO:HG2	1.82	0.61
1:d:77:SER:HA	1:d:89:ARG:HA	1.83	0.61
1:k:407:ARG:HE	1:k:430:ASP:HB2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:516:ASN:CG	1:m:517:GLY:H	2.08	0.61
1:u:77:SER:HA	1:u:89:ARG:HA	1.83	0.61
1:y:421:PRO:HG2	1:7:404:ILE:HD13	1.82	0.61
1:G:107:PHE:O	1:G:412:ARG:NH1	2.22	0.60
1:H:77:SER:HA	1:H:89:ARG:HA	1.83	0.60
1:I:77:SER:HA	1:I:89:ARG:HA	1.83	0.60
1:J:516:ASN:CG	1:J:517:GLY:H	2.08	0.60
1:K:516:ASN:OD1	1:K:517:GLY:N	2.32	0.60
1:M:421:PRO:HG2	1:2:404:ILE:HD13	1.83	0.60
1:N:77:SER:HA	1:N:89:ARG:HA	1.83	0.60
1:N:411:THR:N	1:N:414:ASN:OD1	2.32	0.60
1:O:66:LYS:NZ	1:P:456:SER:O	2.27	0.60
1:Q:407:ARG:HE	1:Q:430:ASP:HB2	1.65	0.60
1:T:411:THR:N	1:T:414:ASN:OD1	2.32	0.60
1:V:77:SER:HA	1:V:89:ARG:HA	1.83	0.60
1:V:516:ASN:OD1	1:V:517:GLY:N	2.32	0.60
1:Y:407:ARG:HE	1:Y:430:ASP:HB2	1.65	0.60
1:Z:421:PRO:HG2	1:w:404:ILE:HD13	1.83	0.60
1:5:77:SER:HA	1:5:89:ARG:HA	1.83	0.60
1:6:65:VAL:HG22	1:6:188:LEU:HD12	1.81	0.60
1:j:516:ASN:CG	1:j:517:GLY:H	2.08	0.60
1:n:77:SER:HA	1:n:89:ARG:HA	1.83	0.60
1:q:516:ASN:OD1	1:q:517:GLY:N	2.32	0.60
1:v:64:LEU:HD23	1:w:453:PRO:HB2	1.82	0.60
1:w:64:LEU:HD23	1:8:453:PRO:HB2	1.82	0.60
1:z:77:SER:HA	1:z:89:ARG:HA	1.83	0.60
1:8:77:SER:HA	1:8:89:ARG:HA	1.83	0.60
1:A:139:ILE:HD11	1:A:467:TYR:HD2	1.64	0.60
1:G:482:ARG:HH12	1:H:482:ARG:HH12	1.48	0.60
1:I:66:LYS:NZ	1:J:456:SER:O	2.27	0.60
1:Q:64:LEU:HD23	1:S:453:PRO:HB2	1.82	0.60
1:R:77:SER:HA	1:R:89:ARG:HA	1.83	0.60
1:S:404:ILE:HD13	1:U:421:PRO:HG2	1.83	0.60
1:4:77:SER:HA	1:4:89:ARG:HA	1.83	0.60
1:5:516:ASN:OD1	1:5:517:GLY:N	2.32	0.60
1:6:453:PRO:HB2	1:t:64:LEU:HD23	1.82	0.60
1:a:516:ASN:CG	1:a:517:GLY:H	2.08	0.60
1:b:77:SER:HA	1:b:89:ARG:HA	1.83	0.60
1:g:77:SER:HA	1:g:89:ARG:HA	1.83	0.60
1:q:516:ASN:CG	1:q:517:GLY:H	2.08	0.60
1:H:404:ILE:HD13	1:W:421:PRO:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:305:ARG:NH1	1:I:313:THR:O	2.33	0.60
1:Q:66:LYS:NZ	1:S:456:SER:O	2.27	0.60
1:R:453:PRO:HB2	1:V:64:LEU:HD23	1.82	0.60
1:W:404:ILE:HD13	1:Y:421:PRO:HG2	1.82	0.60
1:6:456:SER:O	1:t:66:LYS:NZ	2.27	0.60
1:f:516:ASN:OD1	1:f:517:GLY:N	2.32	0.60
1:n:411:THR:N	1:n:414:ASN:OD1	2.32	0.60
1:s:77:SER:HA	1:s:89:ARG:HA	1.83	0.60
1:t:407:ARG:HE	1:t:430:ASP:HB2	1.65	0.60
1:A:516:ASN:CG	1:A:517:GLY:H	2.08	0.60
1:C:516:ASN:CG	1:C:517:GLY:H	2.08	0.60
1:F:411:THR:N	1:F:414:ASN:OD1	2.32	0.60
1:M:77:SER:HA	1:M:89:ARG:HA	1.83	0.60
1:V:421:PRO:HG2	1:X:404:ILE:HD13	1.82	0.60
1:1:107:PHE:O	1:1:412:ARG:NH1	2.21	0.60
1:b:305:ARG:NH1	1:b:313:THR:O	2.33	0.60
1:c:516:ASN:CG	1:c:517:GLY:H	2.08	0.60
1:d:516:ASN:CG	1:d:517:GLY:H	2.08	0.60
1:g:404:ILE:HD13	1:h:421:PRO:HG2	1.83	0.60
1:t:411:THR:N	1:t:414:ASN:OD1	2.32	0.60
1:v:66:LYS:NZ	1:w:456:SER:O	2.27	0.60
1:z:404:ILE:HD13	1:7:421:PRO:HG2	1.82	0.60
1:F:113:GLN:NE2	1:F:494:HIS:O	2.35	0.60
1:F:407:ARG:HE	1:F:430:ASP:HB2	1.65	0.60
1:L:516:ASN:CG	1:L:517:GLY:H	2.08	0.60
1:P:411:THR:HG23	1:P:413:GLU:H	1.67	0.60
1:R:349:ASP:OD1	1:R:350:LEU:N	2.35	0.60
1:W:482:ARG:HH12	1:X:482:ARG:HH12	1.50	0.60
1:X:516:ASN:OD1	1:X:517:GLY:N	2.32	0.60
1:Y:64:LEU:HD23	1:x:453:PRO:HB2	1.82	0.60
1:Y:516:ASN:CG	1:Y:517:GLY:H	2.08	0.60
1:b:66:LYS:NZ	1:c:456:SER:O	2.27	0.60
1:h:77:SER:HA	1:h:89:ARG:HA	1.83	0.60
1:j:64:LEU:HD23	1:k:453:PRO:HB2	1.82	0.60
1:z:113:GLN:NE2	1:z:494:HIS:O	2.35	0.60
1:A:411:THR:HG23	1:A:413:GLU:H	1.67	0.60
1:C:404:ILE:HD13	1:2:421:PRO:HG2	1.83	0.60
1:F:77:SER:HA	1:F:89:ARG:HA	1.83	0.60
1:F:411:THR:HG23	1:F:413:GLU:H	1.67	0.60
1:G:349:ASP:OD1	1:G:350:LEU:N	2.35	0.60
1:H:66:LYS:NZ	1:I:456:SER:O	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:349:ASP:OD1	1:H:350:LEU:N	2.35	0.60
1:H:453:PRO:HB2	1:Z:64:LEU:HD23	1.82	0.60
1:I:349:ASP:OD1	1:I:350:LEU:N	2.35	0.60
1:M:456:SER:O	1:3:66:LYS:NZ	2.27	0.60
1:U:64:LEU:HD23	1:5:453:PRO:HB2	1.82	0.60
1:U:411:THR:HG23	1:U:413:GLU:H	1.67	0.60
1:V:516:ASN:CG	1:V:517:GLY:H	2.08	0.60
1:Z:411:THR:HG23	1:Z:413:GLU:H	1.67	0.60
1:4:411:THR:HG23	1:4:413:GLU:H	1.67	0.60
1:5:349:ASP:OD1	1:5:350:LEU:N	2.35	0.60
1:6:349:ASP:OD1	1:6:350:LEU:N	2.35	0.60
1:b:349:ASP:OD1	1:b:350:LEU:N	2.35	0.60
1:g:113:GLN:NE2	1:g:494:HIS:O	2.35	0.60
1:i:411:THR:HG23	1:i:413:GLU:H	1.67	0.60
1:l:411:THR:HG23	1:l:413:GLU:H	1.67	0.60
1:m:363:THR:OG1	1:m:366:ASP:O	2.14	0.60
1:o:411:THR:HG23	1:o:413:GLU:H	1.67	0.60
1:o:456:SER:O	1:y:66:LYS:NZ	2.27	0.60
1:p:516:ASN:CG	1:p:517:GLY:H	2.08	0.60
1:t:77:SER:HA	1:t:89:ARG:HA	1.83	0.60
1:t:113:GLN:NE2	1:t:494:HIS:O	2.35	0.60
1:t:411:THR:HG23	1:t:413:GLU:H	1.67	0.60
1:u:404:ILE:HD13	1:v:421:PRO:HG2	1.82	0.60
1:x:77:SER:HA	1:x:89:ARG:HA	1.83	0.60
1:x:349:ASP:OD1	1:x:350:LEU:N	2.35	0.60
1:A:113:GLN:NE2	1:A:494:HIS:O	2.35	0.60
1:D:113:GLN:NE2	1:D:494:HIS:O	2.35	0.60
1:D:516:ASN:CG	1:D:517:GLY:H	2.08	0.60
1:D:516:ASN:OD1	1:D:517:GLY:N	2.32	0.60
1:F:453:PRO:HB2	1:R:64:LEU:HD23	1.82	0.60
1:G:113:GLN:NE2	1:G:494:HIS:O	2.35	0.60
1:J:113:GLN:NE2	1:J:494:HIS:O	2.35	0.60
1:N:404:ILE:HD13	1:P:421:PRO:HG2	1.82	0.60
1:Q:516:ASN:CG	1:Q:517:GLY:H	2.08	0.60
1:S:66:LYS:NZ	1:4:456:SER:O	2.27	0.60
1:S:349:ASP:OD1	1:S:350:LEU:N	2.35	0.60
1:W:77:SER:HA	1:W:89:ARG:HA	1.83	0.60
1:W:516:ASN:OD1	1:W:517:GLY:N	2.32	0.60
1:X:516:ASN:CG	1:X:517:GLY:H	2.08	0.60
1:2:349:ASP:OD1	1:2:350:LEU:N	2.35	0.60
1:3:453:PRO:HB2	1:m:64:LEU:HD23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:113:GLN:NE2	1:6:494:HIS:O	2.35	0.60
1:a:113:GLN:NE2	1:a:494:HIS:O	2.35	0.60
1:c:113:GLN:NE2	1:c:494:HIS:O	2.35	0.60
1:c:411:THR:HG23	1:c:413:GLU:H	1.67	0.60
1:j:113:GLN:NE2	1:j:494:HIS:O	2.35	0.60
1:m:113:GLN:NE2	1:m:494:HIS:O	2.35	0.60
1:n:404:ILE:HD13	1:o:421:PRO:HG2	1.82	0.60
1:p:516:ASN:OD1	1:p:517:GLY:N	2.32	0.60
1:q:404:ILE:HD13	1:r:421:PRO:HG2	1.83	0.60
1:r:349:ASP:OD1	1:r:350:LEU:N	2.35	0.60
1:t:453:PRO:HB2	1:x:64:LEU:HD23	1.82	0.60
1:u:107:PHE:O	1:u:412:ARG:NH1	2.21	0.60
1:v:113:GLN:NE2	1:v:494:HIS:O	2.35	0.60
1:x:113:GLN:NE2	1:x:494:HIS:O	2.35	0.60
1:7:77:SER:HA	1:7:89:ARG:HA	1.83	0.60
1:8:113:GLN:NE2	1:8:494:HIS:O	2.35	0.60
1:A:288:TYR:CZ	1:G:80:PRO:HB3	2.36	0.60
1:D:456:SER:O	1:E:66:LYS:NZ	2.27	0.60
1:H:64:LEU:HD23	1:I:453:PRO:HB2	1.82	0.60
1:J:411:THR:HG23	1:J:413:GLU:H	1.67	0.60
1:M:113:GLN:NE2	1:M:494:HIS:O	2.35	0.60
1:Q:113:GLN:NE2	1:Q:494:HIS:O	2.35	0.60
1:W:113:GLN:NE2	1:W:494:HIS:O	2.35	0.60
1:W:516:ASN:CG	1:W:517:GLY:H	2.08	0.60
1:X:77:SER:HA	1:X:89:ARG:HA	1.83	0.60
1:1:404:ILE:HD13	1:8:421:PRO:HG2	1.82	0.60
1:5:411:THR:HG23	1:5:413:GLU:H	1.67	0.60
1:e:113:GLN:NE2	1:e:494:HIS:O	2.35	0.60
1:o:113:GLN:NE2	1:o:494:HIS:O	2.35	0.60
1:p:113:GLN:NE2	1:p:494:HIS:O	2.35	0.60
1:w:349:ASP:OD1	1:w:350:LEU:N	2.35	0.60
1:7:113:GLN:NE2	1:7:494:HIS:O	2.35	0.60
1:8:411:THR:HG23	1:8:413:GLU:H	1.67	0.60
1:B:113:GLN:NE2	1:B:494:HIS:O	2.35	0.60
1:B:482:ARG:HH12	1:I:482:ARG:HH12	1.50	0.60
1:B:491:GLU:O	1:I:496:ALA:HB3	2.02	0.60
1:E:404:ILE:HD13	1:Q:421:PRO:HG2	1.82	0.60
1:N:482:ARG:HH12	1:O:482:ARG:HH12	1.50	0.60
1:P:113:GLN:NE2	1:P:494:HIS:O	2.35	0.60
1:R:113:GLN:NE2	1:R:494:HIS:O	2.35	0.60
1:T:113:GLN:NE2	1:T:494:HIS:O	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:404:ILE:HD13	1:4:421:PRO:HG2	1.82	0.60
1:U:482:ARG:HH12	1:V:482:ARG:HH12	1.50	0.60
1:X:113:GLN:NE2	1:X:494:HIS:O	2.35	0.60
1:4:113:GLN:NE2	1:4:494:HIS:O	2.35	0.60
1:5:64:LEU:HD23	1:b:453:PRO:HB2	1.82	0.60
1:h:113:GLN:NE2	1:h:494:HIS:O	2.35	0.60
1:i:113:GLN:NE2	1:i:494:HIS:O	2.35	0.60
1:u:113:GLN:NE2	1:u:494:HIS:O	2.35	0.60
1:v:516:ASN:CG	1:v:517:GLY:H	2.08	0.60
1:w:66:LYS:NZ	1:8:456:SER:O	2.27	0.60
1:z:516:ASN:CG	1:z:517:GLY:H	2.08	0.60
1:B:516:ASN:OD1	1:B:517:GLY:N	2.32	0.60
1:C:407:ARG:HE	1:C:430:ASP:HB2	1.65	0.60
1:G:404:ILE:HD13	1:I:421:PRO:HG2	1.83	0.60
1:H:411:THR:HG23	1:H:413:GLU:H	1.67	0.60
1:O:404:ILE:HD13	1:g:421:PRO:HG2	1.82	0.60
1:Q:349:ASP:OD1	1:Q:350:LEU:N	2.35	0.60
1:T:107:PHE:O	1:T:412:ARG:NH1	2.21	0.60
1:W:407:ARG:HE	1:W:430:ASP:HB2	1.65	0.60
1:X:407:ARG:HE	1:X:430:ASP:HB2	1.65	0.60
1:X:453:PRO:HB2	1:6:64:LEU:HD23	1.82	0.60
1:Y:482:ARG:HH12	1:Z:482:ARG:HH12	1.50	0.60
1:Z:515:LYS:HB3	1:Z:516:ASN:HB3	1.84	0.60
1:1:113:GLN:NE2	1:1:494:HIS:O	2.35	0.60
1:2:515:LYS:HB3	1:2:516:ASN:HB3	1.84	0.60
1:a:411:THR:HG23	1:a:413:GLU:H	1.67	0.60
1:h:349:ASP:OD1	1:h:350:LEU:N	2.35	0.60
1:l:113:GLN:NE2	1:l:494:HIS:O	2.35	0.60
1:r:515:LYS:HB3	1:r:516:ASN:HB3	1.84	0.60
1:s:113:GLN:NE2	1:s:494:HIS:O	2.35	0.60
1:s:349:ASP:OD1	1:s:350:LEU:N	2.35	0.60
1:x:516:ASN:OD1	1:x:517:GLY:N	2.32	0.60
1:E:113:GLN:NE2	1:E:494:HIS:O	2.35	0.59
1:E:411:THR:HG23	1:E:413:GLU:H	1.67	0.59
1:G:411:THR:HG23	1:G:413:GLU:H	1.67	0.59
1:H:113:GLN:NE2	1:H:494:HIS:O	2.35	0.59
1:I:113:GLN:NE2	1:I:494:HIS:O	2.35	0.59
1:M:349:ASP:OD1	1:M:350:LEU:N	2.35	0.59
1:N:515:LYS:HB3	1:N:516:ASN:HB3	1.84	0.59
1:Q:77:SER:HA	1:Q:89:ARG:HA	1.83	0.59
1:Q:515:LYS:HB3	1:Q:516:ASN:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:516:ASN:OD1	1:R:517:GLY:N	2.32	0.59
1:U:515:LYS:HB3	1:U:516:ASN:HB3	1.84	0.59
1:V:515:LYS:HB3	1:V:516:ASN:HB3	1.84	0.59
1:X:411:THR:HG23	1:X:413:GLU:H	1.67	0.59
1:5:482:ARG:HH12	1:6:482:ARG:HH12	1.50	0.59
1:6:411:THR:HG23	1:6:413:GLU:H	1.67	0.59
1:6:515:LYS:HB3	1:6:516:ASN:HB3	1.84	0.59
1:f:411:THR:HG23	1:f:413:GLU:H	1.67	0.59
1:g:516:ASN:CG	1:g:517:GLY:H	2.08	0.59
1:h:515:LYS:HB3	1:h:516:ASN:HB3	1.84	0.59
1:i:363:THR:OG1	1:i:366:ASP:O	2.14	0.59
1:j:496:ALA:HB3	1:m:491:GLU:O	2.02	0.59
1:k:515:LYS:HB3	1:k:516:ASN:HB3	1.84	0.59
1:n:482:ARG:HH12	1:y:482:ARG:HH12	1.50	0.59
1:r:77:SER:HA	1:r:89:ARG:HA	1.83	0.59
1:t:515:LYS:HB3	1:t:516:ASN:HB3	1.84	0.59
1:v:349:ASP:OD1	1:v:350:LEU:N	2.35	0.59
1:7:349:ASP:OD1	1:7:350:LEU:N	2.35	0.59
1:8:516:ASN:CG	1:8:517:GLY:H	2.08	0.59
1:D:363:THR:OG1	1:D:366:ASP:O	2.14	0.59
1:D:496:ALA:HB3	1:M:491:GLU:O	2.03	0.59
1:F:515:LYS:HB3	1:F:516:ASN:HB3	1.84	0.59
1:G:515:LYS:HB3	1:G:516:ASN:HB3	1.84	0.59
1:H:515:LYS:HB3	1:H:516:ASN:HB3	1.84	0.59
1:N:491:GLU:O	1:O:496:ALA:HB3	2.02	0.59
1:N:496:ALA:HB3	1:O:491:GLU:O	2.03	0.59
1:O:456:SER:O	1:4:66:LYS:NZ	2.28	0.59
1:V:113:GLN:NE2	1:V:494:HIS:O	2.35	0.59
1:V:453:PRO:HB2	1:W:64:LEU:HD23	1.82	0.59
1:X:64:LEU:HD23	1:Y:453:PRO:HB2	1.82	0.59
1:Y:515:LYS:HB3	1:Y:516:ASN:HB3	1.84	0.59
1:2:77:SER:HA	1:2:89:ARG:HA	1.83	0.59
1:3:515:LYS:HB3	1:3:516:ASN:HB3	1.84	0.59
1:5:515:LYS:HB3	1:5:516:ASN:HB3	1.84	0.59
1:e:516:ASN:OD1	1:e:517:GLY:N	2.32	0.59
1:g:482:ARG:HH12	1:l:482:ARG:HH12	1.50	0.59
1:j:77:SER:HA	1:j:89:ARG:HA	1.83	0.59
1:j:491:GLU:O	1:m:496:ALA:HB3	2.03	0.59
1:m:77:SER:HA	1:m:89:ARG:HA	1.83	0.59
1:o:482:ARG:HH12	1:u:482:ARG:HH12	1.50	0.59
1:o:491:GLU:O	1:u:496:ALA:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:411:THR:HG23	1:u:413:GLU:H	1.67	0.59
1:v:411:THR:HG23	1:v:413:GLU:H	1.67	0.59
1:v:515:LYS:HB3	1:v:516:ASN:HB3	1.84	0.59
1:z:515:LYS:HB3	1:z:516:ASN:HB3	1.84	0.59
1:7:454:VAL:HG22	1:7:462:SER:O	2.03	0.59
1:A:64:LEU:HD23	1:E:453:PRO:HB2	1.83	0.59
1:C:421:PRO:HG2	1:M:404:ILE:HD13	1.83	0.59
1:D:482:ARG:HH12	1:M:482:ARG:HH12	1.50	0.59
1:E:482:ARG:HH12	1:P:482:ARG:HH12	1.50	0.59
1:E:496:ALA:HB3	1:P:491:GLU:O	2.03	0.59
1:O:349:ASP:OD1	1:O:350:LEU:N	2.35	0.59
1:S:77:SER:HA	1:S:89:ARG:HA	1.83	0.59
1:T:454:VAL:HG22	1:T:462:SER:O	2.03	0.59
1:U:491:GLU:O	1:V:496:ALA:HB3	2.03	0.59
1:U:516:ASN:OD1	1:U:517:GLY:N	2.32	0.59
1:W:411:THR:HG23	1:W:413:GLU:H	1.67	0.59
1:Y:496:ALA:HB3	1:Z:491:GLU:O	2.03	0.59
1:1:454:VAL:HG22	1:1:462:SER:O	2.03	0.59
1:2:454:VAL:HG22	1:2:462:SER:O	2.03	0.59
1:3:516:ASN:OD1	1:3:517:GLY:N	2.32	0.59
1:4:516:ASN:CG	1:4:517:GLY:H	2.08	0.59
1:a:64:LEU:HD23	1:u:453:PRO:HB2	1.83	0.59
1:b:113:GLN:NE2	1:b:494:HIS:O	2.35	0.59
1:c:349:ASP:OD1	1:c:350:LEU:N	2.35	0.59
1:c:491:GLU:O	1:f:496:ALA:HB3	2.03	0.59
1:d:113:GLN:NE2	1:d:494:HIS:O	2.35	0.59
1:g:515:LYS:HB3	1:g:516:ASN:HB3	1.84	0.59
1:h:454:VAL:HG22	1:h:462:SER:O	2.03	0.59
1:i:454:VAL:HG22	1:i:462:SER:O	2.03	0.59
1:i:515:LYS:HB3	1:i:516:ASN:HB3	1.84	0.59
1:k:113:GLN:NE2	1:k:494:HIS:O	2.35	0.59
1:l:515:LYS:HB3	1:l:516:ASN:HB3	1.84	0.59
1:n:515:LYS:HB3	1:n:516:ASN:HB3	1.84	0.59
1:p:515:LYS:HB3	1:p:516:ASN:HB3	1.84	0.59
1:q:402:ASN:ND2	1:r:430:ASP:O	2.35	0.59
1:q:407:ARG:HE	1:q:430:ASP:HB2	1.65	0.59
1:r:454:VAL:HG22	1:r:462:SER:O	2.03	0.59
1:v:77:SER:HA	1:v:89:ARG:HA	1.83	0.59
1:7:515:LYS:HB3	1:7:516:ASN:HB3	1.84	0.59
1:B:349:ASP:OD1	1:B:350:LEU:N	2.35	0.59
1:C:113:GLN:NE2	1:C:494:HIS:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:402:ASN:ND2	1:2:430:ASP:O	2.35	0.59
1:C:491:GLU:O	1:L:496:ALA:HB3	2.03	0.59
1:D:77:SER:HA	1:D:89:ARG:HA	1.83	0.59
1:E:349:ASP:OD1	1:E:350:LEU:N	2.35	0.59
1:I:411:THR:HG23	1:I:413:GLU:H	1.67	0.59
1:J:349:ASP:OD1	1:J:350:LEU:N	2.35	0.59
1:J:482:ARG:HH12	1:K:482:ARG:HH12	1.50	0.59
1:J:491:GLU:O	1:K:496:ALA:HB3	2.03	0.59
1:K:349:ASP:OD1	1:K:350:LEU:N	2.35	0.59
1:K:411:THR:HG23	1:K:413:GLU:H	1.67	0.59
1:T:349:ASP:OD1	1:T:350:LEU:N	2.35	0.59
1:U:113:GLN:NE2	1:U:494:HIS:O	2.35	0.59
1:V:411:THR:HG23	1:V:413:GLU:H	1.67	0.59
1:Y:113:GLN:NE2	1:Y:494:HIS:O	2.35	0.59
1:4:349:ASP:OD1	1:4:350:LEU:N	2.35	0.59
1:5:113:GLN:NE2	1:5:494:HIS:O	2.35	0.59
1:b:482:ARG:HH12	1:e:482:ARG:HH12	1.50	0.59
1:b:496:ALA:HB3	1:e:491:GLU:O	2.03	0.59
1:e:349:ASP:OD1	1:e:350:LEU:N	2.35	0.59
1:h:411:THR:HG23	1:h:413:GLU:H	1.67	0.59
1:i:482:ARG:HH12	1:z:482:ARG:HH12	1.50	0.59
1:j:454:VAL:HG22	1:j:462:SER:O	2.03	0.59
1:l:454:VAL:HG22	1:l:462:SER:O	2.03	0.59
1:m:411:THR:HG23	1:m:413:GLU:H	1.67	0.59
1:m:454:VAL:HG22	1:m:462:SER:O	2.03	0.59
1:p:77:SER:HA	1:p:89:ARG:HA	1.83	0.59
1:p:482:ARG:HH12	1:s:482:ARG:HH12	1.50	0.59
1:p:496:ALA:HB3	1:s:491:GLU:O	2.03	0.59
1:q:113:GLN:NE2	1:q:494:HIS:O	2.35	0.59
1:w:77:SER:HA	1:w:89:ARG:HA	1.83	0.59
1:w:515:LYS:HB3	1:w:516:ASN:HB3	1.84	0.59
1:x:515:LYS:HB3	1:x:516:ASN:HB3	1.84	0.59
1:8:349:ASP:OD1	1:8:350:LEU:N	2.35	0.59
1:D:515:LYS:HB3	1:D:516:ASN:HB3	1.84	0.59
1:K:113:GLN:NE2	1:K:494:HIS:O	2.35	0.59
1:L:113:GLN:NE2	1:L:494:HIS:O	2.35	0.59
1:L:411:THR:HG23	1:L:413:GLU:H	1.67	0.59
1:L:454:VAL:HG22	1:L:462:SER:O	2.03	0.59
1:M:411:THR:HG23	1:M:413:GLU:H	1.67	0.59
1:O:77:SER:HA	1:O:89:ARG:HA	1.83	0.59
1:Q:411:THR:HG23	1:Q:413:GLU:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:515:LYS:HB3	1:R:516:ASN:HB3	1.84	0.59
1:S:113:GLN:NE2	1:S:494:HIS:O	2.35	0.59
1:Y:411:THR:HG23	1:Y:413:GLU:H	1.67	0.59
1:1:349:ASP:OD1	1:1:350:LEU:N	2.35	0.59
1:1:491:GLU:O	1:w:496:ALA:HB3	2.02	0.59
1:3:113:GLN:NE2	1:3:494:HIS:O	2.35	0.59
1:3:288:TYR:CZ	1:i:80:PRO:HB3	2.38	0.59
1:a:454:VAL:HG22	1:a:462:SER:O	2.03	0.59
1:b:407:ARG:HE	1:b:430:ASP:HB2	1.65	0.59
1:c:482:ARG:HH12	1:f:482:ARG:HH12	1.50	0.59
1:d:454:VAL:HG22	1:d:462:SER:O	2.03	0.59
1:d:496:ALA:HB3	1:q:491:GLU:O	2.03	0.59
1:f:349:ASP:OD1	1:f:350:LEU:N	2.35	0.59
1:g:491:GLU:O	1:l:496:ALA:HB3	2.03	0.59
1:i:496:ALA:HB3	1:z:491:GLU:O	2.03	0.59
1:k:288:TYR:CZ	1:l:80:PRO:HB3	2.38	0.59
1:l:363:THR:OG1	1:l:366:ASP:O	2.14	0.59
1:q:421:PRO:HG2	1:s:404:ILE:HD13	1.83	0.59
1:s:411:THR:HG23	1:s:413:GLU:H	1.67	0.59
1:u:515:LYS:HB3	1:u:516:ASN:HB3	1.84	0.59
1:y:77:SER:HA	1:y:89:ARG:HA	1.83	0.59
1:y:349:ASP:OD1	1:y:350:LEU:N	2.35	0.59
1:y:411:THR:HG23	1:y:413:GLU:H	1.67	0.59
1:A:404:ILE:HD13	1:G:421:PRO:HG2	1.85	0.59
1:A:454:VAL:HG22	1:A:462:SER:O	2.03	0.59
1:A:482:ARG:HH12	1:F:482:ARG:HH12	1.49	0.59
1:C:157:HIS:CD2	1:C:229:VAL:HG12	2.38	0.59
1:D:349:ASP:OD1	1:D:350:LEU:N	2.35	0.59
1:E:515:LYS:HB3	1:E:516:ASN:HB3	1.84	0.59
1:O:411:THR:HG23	1:O:413:GLU:H	1.67	0.59
1:Q:491:GLU:O	1:R:496:ALA:HB3	2.03	0.59
1:S:515:LYS:HB3	1:S:516:ASN:HB3	1.84	0.59
1:T:157:HIS:CD2	1:T:229:VAL:HG12	2.38	0.59
1:T:288:TYR:CZ	1:4:80:PRO:HB3	2.38	0.59
1:Z:113:GLN:NE2	1:Z:494:HIS:O	2.35	0.59
1:Z:402:ASN:ND2	1:x:430:ASP:O	2.35	0.59
1:Z:516:ASN:OD1	1:Z:517:GLY:N	2.32	0.59
1:1:157:HIS:CD2	1:1:229:VAL:HG12	2.38	0.59
1:1:515:LYS:HB3	1:1:516:ASN:HB3	1.84	0.59
1:2:113:GLN:NE2	1:2:494:HIS:O	2.35	0.59
1:6:404:ILE:HD13	1:b:421:PRO:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:411:THR:HG23	1:d:413:GLU:H	1.67	0.59
1:e:454:VAL:HG22	1:e:462:SER:O	2.03	0.59
1:g:496:ALA:HB3	1:l:491:GLU:O	2.02	0.59
1:j:411:THR:HG23	1:j:413:GLU:H	1.67	0.59
1:k:349:ASP:OD1	1:k:350:LEU:N	2.35	0.59
1:k:516:ASN:OD1	1:k:517:GLY:N	2.32	0.59
1:s:515:LYS:HB3	1:s:516:ASN:HB3	1.84	0.59
1:v:491:GLU:O	1:x:496:ALA:HB3	2.02	0.59
1:7:157:HIS:CD2	1:7:229:VAL:HG12	2.38	0.59
1:7:411:THR:HG23	1:7:413:GLU:H	1.67	0.59
1:7:482:ARG:HH12	1:8:482:ARG:HH12	1.50	0.59
1:B:411:THR:HG23	1:B:413:GLU:H	1.67	0.59
1:B:454:VAL:HG22	1:B:462:SER:O	2.03	0.59
1:B:496:ALA:HB3	1:I:491:GLU:O	2.03	0.59
1:D:454:VAL:HG22	1:D:462:SER:O	2.03	0.59
1:E:107:PHE:O	1:E:412:ARG:NH1	2.21	0.59
1:H:80:PRO:HB3	1:Y:288:TYR:CZ	2.38	0.59
1:I:407:ARG:HE	1:I:430:ASP:HB2	1.65	0.59
1:I:515:LYS:HB3	1:I:516:ASN:HB3	1.84	0.59
1:K:454:VAL:HG22	1:K:462:SER:O	2.03	0.59
1:M:515:LYS:HB3	1:M:516:ASN:HB3	1.84	0.59
1:N:157:HIS:CD2	1:N:229:VAL:HG12	2.38	0.59
1:O:378:LEU:HD12	1:O:405:TRP:HA	1.85	0.59
1:R:411:THR:HG23	1:R:413:GLU:H	1.67	0.59
1:R:430:ASP:O	1:U:402:ASN:ND2	2.35	0.59
1:R:454:VAL:HG22	1:R:462:SER:O	2.03	0.59
1:S:496:ALA:HB3	1:T:491:GLU:O	2.02	0.59
1:T:515:LYS:HB3	1:T:516:ASN:HB3	1.84	0.59
1:V:288:TYR:CZ	1:5:80:PRO:HB3	2.38	0.59
1:1:288:TYR:CZ	1:8:80:PRO:HB3	2.38	0.59
1:2:516:ASN:CG	1:2:517:GLY:H	2.08	0.59
1:3:349:ASP:OD1	1:3:350:LEU:N	2.35	0.59
1:4:482:ARG:HH12	1:h:482:ARG:HH12	1.50	0.59
1:4:515:LYS:HB3	1:4:516:ASN:HB3	1.84	0.59
1:6:430:ASP:O	1:a:402:ASN:ND2	2.35	0.59
1:a:456:SER:O	1:e:66:LYS:NZ	2.28	0.59
1:b:411:THR:HG23	1:b:413:GLU:H	1.67	0.59
1:b:515:LYS:HB3	1:b:516:ASN:HB3	1.84	0.59
1:d:482:ARG:HH12	1:q:482:ARG:HH12	1.50	0.59
1:f:454:VAL:HG22	1:f:462:SER:O	2.03	0.59
1:h:157:HIS:CD2	1:h:229:VAL:HG12	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:288:TYR:CZ	1:j:80:PRO:HB3	2.38	0.59
1:i:491:GLU:O	1:z:496:ALA:HB3	2.02	0.59
1:i:516:ASN:OD1	1:i:517:GLY:N	2.32	0.59
1:j:157:HIS:CD2	1:j:229:VAL:HG12	2.38	0.59
1:j:349:ASP:OD1	1:j:350:LEU:N	2.35	0.59
1:j:482:ARG:HH12	1:m:482:ARG:HH12	1.50	0.59
1:l:77:SER:HA	1:l:89:ARG:HA	1.83	0.59
1:l:349:ASP:OD1	1:l:350:LEU:N	2.35	0.59
1:m:157:HIS:CD2	1:m:229:VAL:HG12	2.38	0.59
1:p:349:ASP:OD1	1:p:350:LEU:N	2.35	0.59
1:q:157:HIS:CD2	1:q:229:VAL:HG12	2.38	0.59
1:r:113:GLN:NE2	1:r:494:HIS:O	2.35	0.59
1:r:516:ASN:CG	1:r:517:GLY:H	2.08	0.59
1:u:349:ASP:OD1	1:u:350:LEU:N	2.35	0.59
1:u:378:LEU:HD12	1:u:405:TRP:HA	1.85	0.59
1:v:454:VAL:HG22	1:v:462:SER:O	2.03	0.59
1:w:113:GLN:NE2	1:w:494:HIS:O	2.35	0.59
1:x:411:THR:HG23	1:x:413:GLU:H	1.67	0.59
1:8:515:LYS:HB3	1:8:516:ASN:HB3	1.84	0.59
1:C:482:ARG:HH12	1:L:482:ARG:HH12	1.50	0.59
1:F:454:VAL:HG22	1:F:462:SER:O	2.03	0.59
1:H:454:VAL:HG22	1:H:462:SER:O	2.03	0.59
1:J:157:HIS:CD2	1:J:229:VAL:HG12	2.38	0.59
1:L:349:ASP:OD1	1:L:350:LEU:N	2.35	0.59
1:M:516:ASN:OD1	1:M:517:GLY:N	2.32	0.59
1:P:349:ASP:OD1	1:P:350:LEU:N	2.35	0.59
1:W:496:ALA:HB3	1:X:491:GLU:O	2.03	0.59
1:Y:516:ASN:OD1	1:Y:517:GLY:N	2.32	0.59
1:3:411:THR:HG23	1:3:413:GLU:H	1.67	0.59
1:5:454:VAL:HG22	1:5:462:SER:O	2.03	0.59
1:6:402:ASN:ND2	1:b:430:ASP:O	2.35	0.59
1:b:157:HIS:CD2	1:b:229:VAL:HG12	2.38	0.59
1:c:157:HIS:CD2	1:c:229:VAL:HG12	2.38	0.59
1:e:411:THR:HG23	1:e:413:GLU:H	1.67	0.59
1:f:113:GLN:NE2	1:f:494:HIS:O	2.35	0.59
1:i:77:SER:HA	1:i:89:ARG:HA	1.83	0.59
1:k:491:GLU:O	1:r:496:ALA:HB3	2.02	0.59
1:n:113:GLN:NE2	1:n:494:HIS:O	2.35	0.59
1:n:157:HIS:CD2	1:n:229:VAL:HG12	2.38	0.59
1:n:378:LEU:HD12	1:n:405:TRP:HA	1.85	0.59
1:n:496:ALA:HB3	1:y:491:GLU:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:516:ASN:OD1	1:s:517:GLY:N	2.32	0.59
1:t:349:ASP:OD1	1:t:350:LEU:N	2.35	0.59
1:t:454:VAL:HG22	1:t:462:SER:O	2.03	0.59
1:u:288:TYR:CZ	1:v:80:PRO:HB3	2.38	0.59
1:u:454:VAL:HG22	1:u:462:SER:O	2.03	0.59
1:x:454:VAL:HG22	1:x:462:SER:O	2.03	0.59
1:y:378:LEU:HD12	1:y:405:TRP:HA	1.85	0.59
1:z:107:PHE:O	1:z:412:ARG:NH1	2.21	0.59
1:A:349:ASP:OD1	1:A:350:LEU:N	2.35	0.59
1:B:288:TYR:CZ	1:J:80:PRO:HB3	2.38	0.59
1:C:378:LEU:HD12	1:C:405:TRP:HA	1.85	0.59
1:E:288:TYR:CZ	1:Q:80:PRO:HB3	2.38	0.59
1:E:378:LEU:HD12	1:E:405:TRP:HA	1.85	0.59
1:E:454:VAL:HG22	1:E:462:SER:O	2.03	0.59
1:F:349:ASP:OD1	1:F:350:LEU:N	2.35	0.59
1:H:157:HIS:CD2	1:H:229:VAL:HG12	2.38	0.59
1:J:496:ALA:HB3	1:K:491:GLU:O	2.03	0.59
1:L:157:HIS:CD2	1:L:229:VAL:HG12	2.38	0.59
1:N:113:GLN:NE2	1:N:494:HIS:O	2.35	0.59
1:N:378:LEU:HD12	1:N:405:TRP:HA	1.85	0.59
1:O:113:GLN:NE2	1:O:494:HIS:O	2.35	0.59
1:O:288:TYR:CZ	1:g:80:PRO:HB3	2.38	0.59
1:O:399:MET:HE1	1:O:427:THR:HB	1.85	0.59
1:Q:454:VAL:HG22	1:Q:462:SER:O	2.03	0.59
1:R:404:ILE:HD13	1:S:421:PRO:HG2	1.83	0.59
1:S:399:MET:HE1	1:S:427:THR:HB	1.85	0.59
1:V:349:ASP:OD1	1:V:350:LEU:N	2.35	0.59
1:W:491:GLU:O	1:X:496:ALA:HB3	2.03	0.59
1:X:80:PRO:HB3	1:5:288:TYR:CZ	2.38	0.59
1:3:45:VAL:HG12	1:3:58:LYS:HB3	1.85	0.59
1:3:157:HIS:CD2	1:3:229:VAL:HG12	2.38	0.59
1:5:491:GLU:O	1:6:496:ALA:HB3	2.02	0.59
1:b:491:GLU:O	1:e:496:ALA:HB3	2.03	0.59
1:d:157:HIS:CD2	1:d:229:VAL:HG12	2.38	0.59
1:d:349:ASP:OD1	1:d:350:LEU:N	2.35	0.59
1:e:399:MET:HE1	1:e:427:THR:HB	1.85	0.59
1:i:349:ASP:OD1	1:i:350:LEU:N	2.35	0.59
1:k:45:VAL:HG12	1:k:58:LYS:HB3	1.85	0.59
1:k:157:HIS:CD2	1:k:229:VAL:HG12	2.38	0.59
1:l:288:TYR:CZ	1:m:80:PRO:HB3	2.38	0.59
1:l:516:ASN:OD1	1:l:517:GLY:N	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:45:VAL:HG12	1:m:58:LYS:HB3	1.85	0.59
1:m:349:ASP:OD1	1:m:350:LEU:N	2.35	0.59
1:o:349:ASP:OD1	1:o:350:LEU:N	2.35	0.59
1:p:454:VAL:HG22	1:p:462:SER:O	2.03	0.59
1:u:516:ASN:OD1	1:u:517:GLY:N	2.32	0.59
1:w:399:MET:HE1	1:w:427:THR:HB	1.85	0.59
1:w:421:PRO:HG2	1:x:404:ILE:HD13	1.83	0.59
1:y:113:GLN:NE2	1:y:494:HIS:O	2.35	0.59
1:y:404:ILE:HD13	1:z:421:PRO:HG2	1.83	0.59
1:y:515:LYS:HB3	1:y:516:ASN:HB3	1.84	0.59
1:z:402:ASN:ND2	1:7:430:ASP:O	2.35	0.59
1:7:496:ALA:HB3	1:8:491:GLU:O	2.02	0.59
1:8:399:MET:HE1	1:8:427:THR:HB	1.85	0.59
1:A:399:MET:HE1	1:A:427:THR:HB	1.85	0.59
1:B:399:MET:HE1	1:B:427:THR:HB	1.85	0.59
1:C:454:VAL:HG22	1:C:462:SER:O	2.03	0.59
1:F:399:MET:HE1	1:F:427:THR:HB	1.85	0.59
1:G:378:LEU:HD12	1:G:405:TRP:HA	1.85	0.59
1:I:157:HIS:CD2	1:I:229:VAL:HG12	2.38	0.59
1:N:288:TYR:CZ	1:P:80:PRO:HB3	2.38	0.59
1:N:349:ASP:OD1	1:N:350:LEU:N	2.35	0.59
1:O:515:LYS:HB3	1:O:516:ASN:HB3	1.84	0.59
1:R:378:LEU:HD12	1:R:405:TRP:HA	1.85	0.59
1:W:349:ASP:OD1	1:W:350:LEU:N	2.35	0.59
1:Y:399:MET:HE1	1:Y:427:THR:HB	1.85	0.59
1:2:496:ALA:HB3	1:3:491:GLU:O	2.02	0.59
1:3:454:VAL:HG22	1:3:462:SER:O	2.03	0.59
1:4:399:MET:HE1	1:4:427:THR:HB	1.85	0.59
1:6:378:LEU:HD12	1:6:405:TRP:HA	1.85	0.59
1:a:349:ASP:OD1	1:a:350:LEU:N	2.35	0.59
1:a:399:MET:HE1	1:a:427:THR:HB	1.85	0.59
1:a:482:ARG:HH12	1:t:482:ARG:HH12	1.50	0.59
1:c:80:PRO:HB3	1:e:288:TYR:CZ	2.38	0.59
1:c:454:VAL:HG22	1:c:462:SER:O	2.03	0.59
1:e:515:LYS:HB3	1:e:516:ASN:HB3	1.84	0.59
1:f:157:HIS:CD2	1:f:229:VAL:HG12	2.38	0.59
1:g:402:ASN:ND2	1:h:430:ASP:O	2.35	0.59
1:g:454:VAL:HG22	1:g:462:SER:O	2.03	0.59
1:i:378:LEU:HD12	1:i:405:TRP:HA	1.85	0.59
1:j:45:VAL:HG12	1:j:58:LYS:HB3	1.85	0.59
1:k:411:THR:HG23	1:k:413:GLU:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:378:LEU:HD12	1:l:405:TRP:HA	1.85	0.59
1:n:491:GLU:O	1:y:496:ALA:HB3	2.03	0.59
1:p:157:HIS:CD2	1:p:229:VAL:HG12	2.38	0.59
1:q:378:LEU:HD12	1:q:405:TRP:HA	1.85	0.59
1:q:454:VAL:HG22	1:q:462:SER:O	2.03	0.59
1:t:399:MET:HE1	1:t:427:THR:HB	1.85	0.59
1:w:157:HIS:CD2	1:w:229:VAL:HG12	2.38	0.59
1:y:399:MET:HE1	1:y:427:THR:HB	1.85	0.59
1:z:454:VAL:HG22	1:z:462:SER:O	2.03	0.59
1:A:496:ALA:HB3	1:F:491:GLU:O	2.02	0.58
1:C:411:THR:HG23	1:C:413:GLU:H	1.67	0.58
1:D:157:HIS:CD2	1:D:229:VAL:HG12	2.38	0.58
1:E:491:GLU:O	1:P:496:ALA:HB3	2.03	0.58
1:F:157:HIS:CD2	1:F:229:VAL:HG12	2.38	0.58
1:H:288:TYR:CZ	1:W:80:PRO:HB3	2.38	0.58
1:K:157:HIS:CD2	1:K:229:VAL:HG12	2.38	0.58
1:K:288:TYR:CZ	1:I:80:PRO:HB3	2.38	0.58
1:N:45:VAL:HG12	1:N:58:LYS:HB3	1.85	0.58
1:O:45:VAL:HG12	1:O:58:LYS:HB3	1.85	0.58
1:P:515:LYS:HB3	1:P:516:ASN:HB3	1.84	0.58
1:Q:378:LEU:HD12	1:Q:405:TRP:HA	1.85	0.58
1:R:399:MET:HE1	1:R:427:THR:HB	1.85	0.58
1:S:411:THR:HG23	1:S:413:GLU:H	1.67	0.58
1:U:349:ASP:OD1	1:U:350:LEU:N	2.35	0.58
1:V:454:VAL:HG22	1:V:462:SER:O	2.03	0.58
1:W:378:LEU:HD12	1:W:405:TRP:HA	1.85	0.58
1:X:349:ASP:OD1	1:X:350:LEU:N	2.35	0.58
1:Y:349:ASP:OD1	1:Y:350:LEU:N	2.35	0.58
1:Z:349:ASP:OD1	1:Z:350:LEU:N	2.35	0.58
1:1:399:MET:HE1	1:1:427:THR:HB	1.85	0.58
1:5:157:HIS:CD2	1:5:229:VAL:HG12	2.38	0.58
1:c:496:ALA:HB3	1:f:491:GLU:O	2.03	0.58
1:h:45:VAL:HG12	1:h:58:LYS:HB3	1.85	0.58
1:i:157:HIS:CD2	1:i:229:VAL:HG12	2.38	0.58
1:k:454:VAL:HG22	1:k:462:SER:O	2.03	0.58
1:n:80:PRO:HB3	1:p:288:TYR:CZ	2.38	0.58
1:n:288:TYR:CZ	1:o:80:PRO:HB3	2.38	0.58
1:n:349:ASP:OD1	1:n:350:LEU:N	2.35	0.58
1:o:288:TYR:CZ	1:p:80:PRO:HB3	2.38	0.58
1:p:491:GLU:O	1:s:496:ALA:HB3	2.02	0.58
1:t:157:HIS:CD2	1:t:229:VAL:HG12	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:157:HIS:CD2	1:v:229:VAL:HG12	2.38	0.58
1:v:378:LEU:HD12	1:v:405:TRP:HA	1.85	0.58
1:x:157:HIS:CD2	1:x:229:VAL:HG12	2.38	0.58
1:x:378:LEU:HD12	1:x:405:TRP:HA	1.85	0.58
1:x:399:MET:HE1	1:x:427:THR:HB	1.85	0.58
1:y:45:VAL:HG12	1:y:58:LYS:HB3	1.85	0.58
1:7:45:VAL:HG12	1:7:58:LYS:HB3	1.85	0.58
1:7:516:ASN:OD1	1:7:517:GLY:N	2.32	0.58
1:8:157:HIS:CD2	1:8:229:VAL:HG12	2.38	0.58
1:A:80:PRO:HB3	1:I:288:TYR:CZ	2.38	0.58
1:A:515:LYS:HB3	1:A:516:ASN:HB3	1.84	0.58
1:B:515:LYS:HB3	1:B:516:ASN:HB3	1.84	0.58
1:C:349:ASP:OD1	1:C:350:LEU:N	2.35	0.58
1:D:150:ASN:OD1	1:D:151:ASP:N	2.36	0.58
1:D:288:TYR:CZ	1:N:80:PRO:HB3	2.38	0.58
1:D:430:ASP:O	1:P:402:ASN:ND2	2.35	0.58
1:E:45:VAL:HG12	1:E:58:LYS:HB3	1.85	0.58
1:J:454:VAL:HG22	1:J:462:SER:O	2.03	0.58
1:K:515:LYS:HB3	1:K:516:ASN:HB3	1.84	0.58
1:Q:45:VAL:HG12	1:Q:58:LYS:HB3	1.85	0.58
1:Q:157:HIS:CD2	1:Q:229:VAL:HG12	2.38	0.58
1:R:80:PRO:HB3	1:U:288:TYR:CZ	2.38	0.58
1:R:150:ASN:OD1	1:R:151:ASP:N	2.37	0.58
1:S:157:HIS:CD2	1:S:229:VAL:HG12	2.38	0.58
1:T:150:ASN:OD1	1:T:151:ASP:N	2.37	0.58
1:T:399:MET:HE1	1:T:427:THR:HB	1.85	0.58
1:T:411:THR:HG23	1:T:413:GLU:H	1.67	0.58
1:V:399:MET:HE1	1:V:427:THR:HB	1.85	0.58
1:W:399:MET:HE1	1:W:427:THR:HB	1.85	0.58
1:W:454:VAL:HG22	1:W:462:SER:O	2.03	0.58
1:Y:491:GLU:O	1:Z:496:ALA:HB3	2.02	0.58
1:Z:157:HIS:CD2	1:Z:229:VAL:HG12	2.38	0.58
1:Z:288:TYR:CZ	1:x:80:PRO:HB3	2.38	0.58
1:1:150:ASN:OD1	1:1:151:ASP:N	2.36	0.58
1:2:399:MET:HE1	1:2:427:THR:HB	1.85	0.58
1:2:411:THR:HG23	1:2:413:GLU:H	1.67	0.58
1:4:491:GLU:O	1:h:496:ALA:HB3	2.03	0.58
1:5:496:ALA:HB3	1:6:491:GLU:O	2.03	0.58
1:6:150:ASN:OD1	1:6:151:ASP:N	2.37	0.58
1:c:288:TYR:CZ	1:d:80:PRO:HB3	2.38	0.58
1:e:45:VAL:HG12	1:e:58:LYS:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:378:LEU:HD12	1:e:405:TRP:HA	1.85	0.58
1:f:515:LYS:HB3	1:f:516:ASN:HB3	1.84	0.58
1:j:525:TRP:CZ3	1:j:530:PRO:HG3	2.39	0.58
1:l:157:HIS:CD2	1:l:229:VAL:HG12	2.38	0.58
1:n:45:VAL:HG12	1:n:58:LYS:HB3	1.85	0.58
1:o:515:LYS:HB3	1:o:516:ASN:HB3	1.84	0.58
1:p:150:ASN:OD1	1:p:151:ASP:N	2.37	0.58
1:p:411:THR:HG23	1:p:413:GLU:H	1.67	0.58
1:q:45:VAL:HG12	1:q:58:LYS:HB3	1.85	0.58
1:r:399:MET:HE1	1:r:427:THR:HB	1.85	0.58
1:r:411:THR:HG23	1:r:413:GLU:H	1.67	0.58
1:u:45:VAL:HG12	1:u:58:LYS:HB3	1.85	0.58
1:w:411:THR:HG23	1:w:413:GLU:H	1.67	0.58
1:x:150:ASN:OD1	1:x:151:ASP:N	2.37	0.58
1:y:157:HIS:CD2	1:y:229:VAL:HG12	2.38	0.58
1:B:378:LEU:HD12	1:B:405:TRP:HA	1.85	0.58
1:C:45:VAL:HG12	1:C:58:LYS:HB3	1.85	0.58
1:D:80:PRO:HB3	1:P:288:TYR:CZ	2.38	0.58
1:D:491:GLU:O	1:M:496:ALA:HB3	2.02	0.58
1:G:150:ASN:OD1	1:G:151:ASP:N	2.37	0.58
1:I:378:LEU:HD12	1:I:405:TRP:HA	1.85	0.58
1:J:288:TYR:CZ	1:L:80:PRO:HB3	2.38	0.58
1:J:516:ASN:OD1	1:J:517:GLY:N	2.32	0.58
1:K:150:ASN:OD1	1:K:151:ASP:N	2.37	0.58
1:N:525:TRP:CZ3	1:N:530:PRO:HG3	2.39	0.58
1:O:157:HIS:CD2	1:O:229:VAL:HG12	2.38	0.58
1:O:454:VAL:HG22	1:O:462:SER:O	2.03	0.58
1:Q:482:ARG:HH12	1:R:482:ARG:HH12	1.50	0.58
1:R:157:HIS:CD2	1:R:229:VAL:HG12	2.38	0.58
1:T:80:PRO:HB3	1:f:288:TYR:CZ	2.38	0.58
1:U:157:HIS:CD2	1:U:229:VAL:HG12	2.38	0.58
1:U:496:ALA:HB3	1:V:491:GLU:O	2.02	0.58
1:X:430:ASP:O	1:5:402:ASN:ND2	2.35	0.58
1:X:515:LYS:HB3	1:X:516:ASN:HB3	1.84	0.58
1:Y:454:VAL:HG22	1:Y:462:SER:O	2.03	0.58
1:4:157:HIS:CD2	1:4:229:VAL:HG12	2.38	0.58
1:6:288:TYR:CZ	1:b:80:PRO:HB3	2.38	0.58
1:a:80:PRO:HB3	1:b:288:TYR:CZ	2.38	0.58
1:a:157:HIS:CD2	1:a:229:VAL:HG12	2.38	0.58
1:a:496:ALA:HB3	1:t:491:GLU:O	2.02	0.58
1:e:363:THR:OG1	1:e:366:ASP:O	2.14	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:150:ASN:OD1	1:f:151:ASP:N	2.37	0.58
1:g:107:PHE:O	1:g:412:ARG:NH1	2.21	0.58
1:g:411:THR:HG23	1:g:413:GLU:H	1.67	0.58
1:h:387:ASN:OD1	1:h:388:GLN:N	2.37	0.58
1:i:399:MET:HE1	1:i:427:THR:HB	1.85	0.58
1:l:399:MET:HE1	1:l:427:THR:HB	1.85	0.58
1:m:150:ASN:OD1	1:m:151:ASP:N	2.36	0.58
1:m:525:TRP:CZ3	1:m:530:PRO:HG3	2.39	0.58
1:o:402:ASN:ND2	1:p:430:ASP:O	2.35	0.58
1:o:496:ALA:HB3	1:u:491:GLU:O	2.03	0.58
1:q:411:THR:HG23	1:q:413:GLU:H	1.67	0.58
1:v:482:ARG:HH12	1:x:482:ARG:HH12	1.50	0.58
1:y:402:ASN:ND2	1:z:430:ASP:O	2.35	0.58
1:z:349:ASP:OD1	1:z:350:LEU:N	2.35	0.58
1:8:516:ASN:OD1	1:8:517:GLY:N	2.32	0.58
1:B:45:VAL:HG12	1:B:58:LYS:HB3	1.85	0.58
1:B:157:HIS:CD2	1:B:229:VAL:HG12	2.38	0.58
1:D:411:THR:HG23	1:D:413:GLU:H	1.67	0.58
1:E:80:PRO:HB3	1:F:288:TYR:CZ	2.38	0.58
1:G:516:ASN:OD1	1:G:517:GLY:N	2.32	0.58
1:H:402:ASN:ND2	1:W:430:ASP:O	2.35	0.58
1:I:525:TRP:CZ3	1:I:530:PRO:HG3	2.39	0.58
1:J:525:TRP:CZ3	1:J:530:PRO:HG3	2.39	0.58
1:L:150:ASN:OD1	1:L:151:ASP:N	2.37	0.58
1:U:399:MET:HE1	1:U:427:THR:HB	1.85	0.58
1:X:45:VAL:HG12	1:X:58:LYS:HB3	1.85	0.58
1:X:378:LEU:HD12	1:X:405:TRP:HA	1.85	0.58
1:X:399:MET:HE1	1:X:427:THR:HB	1.85	0.58
1:X:454:VAL:HG22	1:X:462:SER:O	2.03	0.58
1:1:411:THR:HG23	1:1:413:GLU:H	1.67	0.58
1:2:525:TRP:CZ3	1:2:530:PRO:HG3	2.39	0.58
1:3:525:TRP:CZ3	1:3:530:PRO:HG3	2.38	0.58
1:4:45:VAL:HG12	1:4:58:LYS:HB3	1.85	0.58
1:4:378:LEU:HD12	1:4:405:TRP:HA	1.85	0.58
1:a:515:LYS:HB3	1:a:516:ASN:HB3	1.84	0.58
1:b:378:LEU:HD12	1:b:405:TRP:HA	1.85	0.58
1:b:525:TRP:CZ3	1:b:530:PRO:HG3	2.39	0.58
1:c:515:LYS:HB3	1:c:516:ASN:HB3	1.84	0.58
1:c:525:TRP:CZ3	1:c:530:PRO:HG3	2.39	0.58
1:e:157:HIS:CD2	1:e:229:VAL:HG12	2.38	0.58
1:h:516:ASN:OD1	1:h:517:GLY:N	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:150:ASN:OD1	1:k:151:ASP:N	2.37	0.58
1:k:525:TRP:CZ3	1:k:530:PRO:HG3	2.38	0.58
1:n:525:TRP:CZ3	1:n:530:PRO:HG3	2.39	0.58
1:s:454:VAL:HG22	1:s:462:SER:O	2.03	0.58
1:v:45:VAL:HG12	1:v:58:LYS:HB3	1.85	0.58
1:y:454:VAL:HG22	1:y:462:SER:O	2.03	0.58
1:7:387:ASN:OD1	1:7:388:GLN:N	2.37	0.58
1:7:525:TRP:CZ3	1:7:530:PRO:HG3	2.39	0.58
1:8:378:LEU:HD12	1:8:405:TRP:HA	1.85	0.58
1:A:45:VAL:HG12	1:A:58:LYS:HB3	1.85	0.58
1:A:157:HIS:CD2	1:A:229:VAL:HG12	2.38	0.58
1:A:525:TRP:CZ3	1:A:530:PRO:HG3	2.39	0.58
1:C:80:PRO:HB3	1:M:288:TYR:CZ	2.38	0.58
1:C:288:TYR:CZ	1:2:80:PRO:HB3	2.38	0.58
1:C:387:ASN:OD1	1:C:388:GLN:N	2.37	0.58
1:E:516:ASN:CG	1:E:517:GLY:H	2.08	0.58
1:I:516:ASN:OD1	1:I:517:GLY:N	2.32	0.58
1:J:515:LYS:HB3	1:J:516:ASN:HB3	1.84	0.58
1:L:515:LYS:HB3	1:L:516:ASN:HB3	1.84	0.58
1:P:525:TRP:CZ3	1:P:530:PRO:HG3	2.39	0.58
1:R:387:ASN:OD1	1:R:388:GLN:N	2.37	0.58
1:V:45:VAL:HG12	1:V:58:LYS:HB3	1.85	0.58
1:W:45:VAL:HG12	1:W:58:LYS:HB3	1.85	0.58
1:W:157:HIS:CD2	1:W:229:VAL:HG12	2.38	0.58
1:W:387:ASN:OD1	1:W:388:GLN:N	2.37	0.58
1:Y:45:VAL:HG12	1:Y:58:LYS:HB3	1.85	0.58
1:1:525:TRP:CZ3	1:1:530:PRO:HG3	2.39	0.58
1:3:150:ASN:OD1	1:3:151:ASP:N	2.37	0.58
1:6:80:PRO:HB3	1:a:288:TYR:CZ	2.38	0.58
1:a:45:VAL:HG12	1:a:58:LYS:HB3	1.85	0.58
1:a:516:ASN:OD1	1:a:517:GLY:N	2.32	0.58
1:b:387:ASN:OD1	1:b:388:GLN:N	2.37	0.58
1:c:399:MET:HE1	1:c:427:THR:HB	1.85	0.58
1:c:516:ASN:OD1	1:c:517:GLY:N	2.32	0.58
1:d:150:ASN:OD1	1:d:151:ASP:N	2.37	0.58
1:g:349:ASP:OD1	1:g:350:LEU:N	2.35	0.58
1:h:525:TRP:CZ3	1:h:530:PRO:HG3	2.39	0.58
1:j:150:ASN:OD1	1:j:151:ASP:N	2.37	0.58
1:j:387:ASN:OD1	1:j:388:GLN:N	2.37	0.58
1:j:515:LYS:HB3	1:j:516:ASN:HB3	1.84	0.58
1:l:525:TRP:CZ3	1:l:530:PRO:HG3	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:525:TRP:CZ3	1:o:530:PRO:HG3	2.39	0.58
1:q:387:ASN:OD1	1:q:388:GLN:N	2.37	0.58
1:r:525:TRP:CZ3	1:r:530:PRO:HG3	2.39	0.58
1:v:496:ALA:HB3	1:x:491:GLU:O	2.03	0.58
1:x:387:ASN:OD1	1:x:388:GLN:N	2.37	0.58
1:z:411:THR:HG23	1:z:413:GLU:H	1.67	0.58
1:8:45:VAL:HG12	1:8:58:LYS:HB3	1.85	0.58
1:E:387:ASN:OD1	1:E:388:GLN:N	2.37	0.58
1:F:45:VAL:HG12	1:F:58:LYS:HB3	1.85	0.58
1:F:150:ASN:OD1	1:F:151:ASP:N	2.37	0.58
1:G:387:ASN:OD1	1:G:388:GLN:N	2.37	0.58
1:H:150:ASN:OD1	1:H:151:ASP:N	2.37	0.58
1:I:387:ASN:OD1	1:I:388:GLN:N	2.37	0.58
1:J:387:ASN:OD1	1:J:388:GLN:N	2.37	0.58
1:J:399:MET:HE1	1:J:427:THR:HB	1.85	0.58
1:M:45:VAL:HG12	1:M:58:LYS:HB3	1.85	0.58
1:M:325:ALA:O	1:M:327:ILE:HG23	2.04	0.58
1:M:525:TRP:CZ3	1:M:530:PRO:HG3	2.39	0.58
1:N:325:ALA:O	1:N:327:ILE:HG23	2.04	0.58
1:N:387:ASN:OD1	1:N:388:GLN:N	2.37	0.58
1:O:325:ALA:O	1:O:327:ILE:HG23	2.04	0.58
1:O:387:ASN:OD1	1:O:388:GLN:N	2.37	0.58
1:Q:496:ALA:HB3	1:R:491:GLU:O	2.03	0.58
1:Q:525:TRP:CZ3	1:Q:530:PRO:HG3	2.39	0.58
1:T:525:TRP:CZ3	1:T:530:PRO:HG3	2.39	0.58
1:W:515:LYS:HB3	1:W:516:ASN:HB3	1.84	0.58
1:X:150:ASN:OD1	1:X:151:ASP:N	2.37	0.58
1:X:157:HIS:CD2	1:X:229:VAL:HG12	2.38	0.58
1:X:387:ASN:OD1	1:X:388:GLN:N	2.37	0.58
1:Z:399:MET:HE1	1:Z:427:THR:HB	1.85	0.58
1:2:157:HIS:CD2	1:2:229:VAL:HG12	2.38	0.58
1:4:150:ASN:OD1	1:4:151:ASP:N	2.37	0.58
1:4:387:ASN:OD1	1:4:388:GLN:N	2.37	0.58
1:4:516:ASN:OD1	1:4:517:GLY:N	2.32	0.58
1:5:150:ASN:OD1	1:5:151:ASP:N	2.37	0.58
1:6:454:VAL:HG22	1:6:462:SER:O	2.03	0.58
1:a:378:LEU:HD12	1:a:405:TRP:HA	1.85	0.58
1:a:525:TRP:CZ3	1:a:530:PRO:HG3	2.39	0.58
1:b:390:THR:HG22	1:b:391:TYR:H	1.69	0.58
1:b:516:ASN:OD1	1:b:517:GLY:N	2.32	0.58
1:c:387:ASN:OD1	1:c:388:GLN:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:515:LYS:HB3	1:d:516:ASN:HB3	1.84	0.58
1:g:157:HIS:CD2	1:g:229:VAL:HG12	2.38	0.58
1:m:387:ASN:OD1	1:m:388:GLN:N	2.37	0.58
1:n:325:ALA:O	1:n:327:ILE:HG23	2.04	0.58
1:n:387:ASN:OD1	1:n:388:GLN:N	2.37	0.58
1:o:157:HIS:CD2	1:o:229:VAL:HG12	2.38	0.58
1:o:387:ASN:OD1	1:o:388:GLN:N	2.37	0.58
1:q:80:PRO:HB3	1:s:288:TYR:CZ	2.38	0.58
1:q:288:TYR:CZ	1:r:80:PRO:HB3	2.38	0.58
1:s:150:ASN:OD1	1:s:151:ASP:N	2.37	0.58
1:t:45:VAL:HG12	1:t:58:LYS:HB3	1.85	0.58
1:t:150:ASN:OD1	1:t:151:ASP:N	2.37	0.58
1:v:525:TRP:CZ3	1:v:530:PRO:HG3	2.39	0.58
1:y:387:ASN:OD1	1:y:388:GLN:N	2.37	0.58
1:z:288:TYR:CZ	1:7:80:PRO:HB3	2.38	0.58
1:8:150:ASN:OD1	1:8:151:ASP:N	2.37	0.58
1:8:387:ASN:OD1	1:8:388:GLN:N	2.37	0.58
1:A:378:LEU:HD12	1:A:405:TRP:HA	1.85	0.58
1:B:363:THR:OG1	1:B:366:ASP:O	2.14	0.58
1:E:157:HIS:CD2	1:E:229:VAL:HG12	2.38	0.58
1:E:525:TRP:CZ3	1:E:530:PRO:HG3	2.39	0.58
1:H:525:TRP:CZ3	1:H:530:PRO:HG3	2.39	0.58
1:J:378:LEU:HD12	1:J:405:TRP:HA	1.85	0.58
1:M:150:ASN:OD1	1:M:151:ASP:N	2.37	0.58
1:M:454:VAL:HG22	1:M:462:SER:O	2.03	0.58
1:O:402:ASN:ND2	1:g:430:ASP:O	2.35	0.58
1:P:387:ASN:OD1	1:P:388:GLN:N	2.37	0.58
1:Q:387:ASN:OD1	1:Q:388:GLN:N	2.37	0.58
1:S:325:ALA:O	1:S:327:ILE:HG23	2.04	0.58
1:S:390:THR:HG22	1:S:391:TYR:H	1.69	0.58
1:S:482:ARG:HH12	1:T:482:ARG:HH12	1.50	0.58
1:T:387:ASN:OD1	1:T:388:GLN:N	2.37	0.58
1:U:454:VAL:HG22	1:U:462:SER:O	2.03	0.58
1:V:525:TRP:CZ3	1:V:530:PRO:HG3	2.39	0.58
1:Y:150:ASN:OD1	1:Y:151:ASP:N	2.37	0.58
1:Y:525:TRP:CZ3	1:Y:530:PRO:HG3	2.39	0.58
1:5:525:TRP:CZ3	1:5:530:PRO:HG3	2.39	0.58
1:6:387:ASN:OD1	1:6:388:GLN:N	2.37	0.58
1:6:516:ASN:OD1	1:6:517:GLY:N	2.32	0.58
1:b:454:VAL:HG22	1:b:462:SER:O	2.03	0.58
1:d:288:TYR:CZ	1:e:80:PRO:HB3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:387:ASN:OD1	1:d:388:GLN:N	2.37	0.58
1:g:288:TYR:CZ	1:h:80:PRO:HB3	2.38	0.58
1:i:402:ASN:ND2	1:j:430:ASP:O	2.35	0.58
1:i:525:TRP:CZ3	1:i:530:PRO:HG3	2.39	0.58
1:k:482:ARG:HH12	1:r:482:ARG:HH12	1.50	0.58
1:k:496:ALA:HB3	1:r:491:GLU:O	2.03	0.58
1:o:378:LEU:HD12	1:o:405:TRP:HA	1.85	0.58
1:q:150:ASN:OD1	1:q:151:ASP:N	2.37	0.58
1:r:288:TYR:CZ	1:s:80:PRO:HB3	2.38	0.58
1:r:387:ASN:OD1	1:r:388:GLN:N	2.37	0.58
1:s:325:ALA:O	1:s:327:ILE:HG23	2.04	0.58
1:s:525:TRP:CZ3	1:s:530:PRO:HG3	2.39	0.58
1:t:288:TYR:CZ	1:u:80:PRO:HB3	2.38	0.58
1:u:150:ASN:OD1	1:u:151:ASP:N	2.37	0.58
1:u:387:ASN:OD1	1:u:388:GLN:N	2.37	0.58
1:u:516:ASN:CG	1:u:517:GLY:H	2.08	0.58
1:v:387:ASN:OD1	1:v:388:GLN:N	2.37	0.58
1:w:325:ALA:O	1:w:327:ILE:HG23	2.04	0.58
1:x:325:ALA:O	1:x:327:ILE:HG23	2.04	0.58
1:y:288:TYR:CZ	1:z:80:PRO:HB3	2.39	0.58
1:y:325:ALA:O	1:y:327:ILE:HG23	2.04	0.58
1:8:325:ALA:O	1:8:327:ILE:HG23	2.04	0.58
1:A:387:ASN:OD1	1:A:388:GLN:N	2.37	0.58
1:A:456:SER:O	1:B:66:LYS:NZ	2.29	0.58
1:A:516:ASN:OD1	1:A:517:GLY:N	2.32	0.58
1:B:387:ASN:OD1	1:B:388:GLN:N	2.37	0.58
1:C:150:ASN:OD1	1:C:151:ASP:N	2.37	0.58
1:C:525:TRP:CZ3	1:C:530:PRO:HG3	2.39	0.58
1:G:525:TRP:CZ3	1:G:530:PRO:HG3	2.39	0.58
1:I:390:THR:HG22	1:I:391:TYR:H	1.69	0.58
1:L:387:ASN:OD1	1:L:388:GLN:N	2.37	0.58
1:L:390:THR:HG22	1:L:391:TYR:H	1.69	0.58
1:L:525:TRP:CZ3	1:L:530:PRO:HG3	2.39	0.58
1:M:80:PRO:HB3	1:2:288:TYR:CZ	2.38	0.58
1:O:525:TRP:CZ3	1:O:530:PRO:HG3	2.39	0.58
1:P:378:LEU:HD12	1:P:405:TRP:HA	1.85	0.58
1:Q:150:ASN:OD1	1:Q:151:ASP:N	2.36	0.58
1:R:325:ALA:O	1:R:327:ILE:HG23	2.04	0.58
1:S:45:VAL:HG12	1:S:58:LYS:HB3	1.85	0.58
1:U:325:ALA:O	1:U:327:ILE:HG23	2.04	0.58
1:V:150:ASN:OD1	1:V:151:ASP:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:150:ASN:OD1	1:W:151:ASP:N	2.37	0.58
1:1:387:ASN:OD1	1:1:388:GLN:N	2.37	0.58
1:1:482:ARG:HH12	1:w:482:ARG:HH12	1.50	0.58
1:1:496:ALA:HB3	1:w:491:GLU:O	2.03	0.58
1:2:325:ALA:O	1:2:327:ILE:HG23	2.04	0.58
1:2:378:LEU:HD12	1:2:405:TRP:HA	1.85	0.58
1:2:387:ASN:OD1	1:2:388:GLN:N	2.37	0.58
1:4:325:ALA:O	1:4:327:ILE:HG23	2.04	0.58
1:4:390:THR:HG22	1:4:391:TYR:H	1.69	0.58
1:a:387:ASN:OD1	1:a:388:GLN:N	2.37	0.58
1:c:325:ALA:O	1:c:327:ILE:HG23	2.04	0.58
1:d:525:TRP:CZ3	1:d:530:PRO:HG3	2.39	0.58
1:g:525:TRP:CZ3	1:g:530:PRO:HG3	2.39	0.58
1:h:378:LEU:HD12	1:h:405:TRP:HA	1.85	0.58
1:i:150:ASN:OD1	1:i:151:ASP:N	2.37	0.58
1:l:150:ASN:OD1	1:l:151:ASP:N	2.37	0.58
1:l:387:ASN:OD1	1:l:388:GLN:N	2.37	0.58
1:m:515:LYS:HB3	1:m:516:ASN:HB3	1.84	0.58
1:o:454:VAL:HG22	1:o:462:SER:O	2.03	0.58
1:r:45:VAL:HG12	1:r:58:LYS:HB3	1.85	0.58
1:r:157:HIS:CD2	1:r:229:VAL:HG12	2.38	0.58
1:r:325:ALA:O	1:r:327:ILE:HG23	2.04	0.58
1:r:378:LEU:HD12	1:r:405:TRP:HA	1.85	0.58
1:s:45:VAL:HG12	1:s:58:LYS:HB3	1.85	0.58
1:s:387:ASN:OD1	1:s:388:GLN:N	2.37	0.58
1:u:525:TRP:CZ3	1:u:530:PRO:HG3	2.39	0.58
1:v:516:ASN:OD1	1:v:517:GLY:N	2.32	0.58
1:w:390:THR:HG22	1:w:391:TYR:H	1.69	0.58
1:y:525:TRP:CZ3	1:y:530:PRO:HG3	2.38	0.58
1:z:157:HIS:CD2	1:z:229:VAL:HG12	2.38	0.58
1:z:325:ALA:O	1:z:327:ILE:HG23	2.04	0.58
1:7:378:LEU:HD12	1:7:405:TRP:HA	1.85	0.58
1:8:454:VAL:HG22	1:8:462:SER:O	2.03	0.58
1:B:402:ASN:ND2	1:J:430:ASP:O	2.35	0.58
1:D:378:LEU:HD12	1:D:405:TRP:HA	1.85	0.58
1:E:150:ASN:OD1	1:E:151:ASP:N	2.37	0.58
1:F:430:ASP:O	1:Q:402:ASN:ND2	2.35	0.58
1:G:454:VAL:HG22	1:G:462:SER:O	2.03	0.58
1:H:325:ALA:O	1:H:327:ILE:HG23	2.04	0.58
1:I:62:GLN:HE21	1:I:469:THR:HG22	1.69	0.58
1:I:454:VAL:HG22	1:I:462:SER:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:325:ALA:O	1:J:327:ILE:HG23	2.04	0.58
1:M:157:HIS:CD2	1:M:229:VAL:HG12	2.38	0.58
1:M:387:ASN:OD1	1:M:388:GLN:N	2.37	0.58
1:P:62:GLN:HE21	1:P:469:THR:HG22	1.69	0.58
1:P:157:HIS:CD2	1:P:229:VAL:HG12	2.38	0.58
1:R:288:TYR:CZ	1:S:80:PRO:HB3	2.38	0.58
1:R:525:TRP:CZ3	1:R:530:PRO:HG3	2.39	0.58
1:S:525:TRP:CZ3	1:S:530:PRO:HG3	2.39	0.58
1:V:157:HIS:CD2	1:V:229:VAL:HG12	2.38	0.58
1:V:390:THR:HG22	1:V:391:TYR:H	1.69	0.58
1:Z:325:ALA:O	1:Z:327:ILE:HG23	2.04	0.58
1:Z:454:VAL:HG22	1:Z:462:SER:O	2.03	0.58
1:2:150:ASN:OD1	1:2:151:ASP:N	2.37	0.58
1:2:482:ARG:HH12	1:3:482:ARG:HH12	1.50	0.58
1:2:491:GLU:O	1:3:496:ALA:HB3	2.03	0.58
1:6:45:VAL:HG12	1:6:58:LYS:HB3	1.85	0.58
1:b:62:GLN:HE21	1:b:469:THR:HG22	1.69	0.58
1:c:45:VAL:HG12	1:c:58:LYS:HB3	1.85	0.58
1:c:378:LEU:HD12	1:c:405:TRP:HA	1.85	0.58
1:c:430:ASP:O	1:e:402:ASN:ND2	2.35	0.58
1:d:390:THR:HG22	1:d:391:TYR:H	1.69	0.58
1:e:387:ASN:OD1	1:e:388:GLN:N	2.37	0.58
1:e:525:TRP:CZ3	1:e:530:PRO:HG3	2.39	0.58
1:g:325:ALA:O	1:g:327:ILE:HG23	2.04	0.58
1:g:387:ASN:OD1	1:g:388:GLN:N	2.37	0.58
1:i:387:ASN:OD1	1:i:388:GLN:N	2.37	0.58
1:j:325:ALA:O	1:j:327:ILE:HG23	2.04	0.58
1:j:363:THR:OG1	1:j:366:ASP:O	2.14	0.58
1:k:390:THR:HG22	1:k:391:TYR:H	1.69	0.58
1:l:402:ASN:ND2	1:m:430:ASP:O	2.35	0.58
1:l:516:ASN:CG	1:l:517:GLY:H	2.08	0.58
1:m:325:ALA:O	1:m:327:ILE:HG23	2.04	0.58
1:p:325:ALA:O	1:p:327:ILE:HG23	2.04	0.58
1:t:387:ASN:OD1	1:t:388:GLN:N	2.37	0.58
1:u:157:HIS:CD2	1:u:229:VAL:HG12	2.38	0.58
1:v:150:ASN:OD1	1:v:151:ASP:N	2.36	0.58
1:w:525:TRP:CZ3	1:w:530:PRO:HG3	2.39	0.58
1:y:80:PRO:HB3	1:7:288:TYR:CZ	2.38	0.58
1:z:387:ASN:OD1	1:z:388:GLN:N	2.37	0.58
1:z:525:TRP:CZ3	1:z:530:PRO:HG3	2.39	0.58
1:8:390:THR:HG22	1:8:391:TYR:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:525:TRP:CZ3	1:8:530:PRO:HG3	2.39	0.58
1:B:80:PRO:HB3	1:L:288:TYR:CZ	2.38	0.58
1:B:516:ASN:CG	1:B:517:GLY:H	2.08	0.58
1:D:325:ALA:O	1:D:327:ILE:HG23	2.04	0.58
1:D:387:ASN:OD1	1:D:388:GLN:N	2.37	0.58
1:F:387:ASN:OD1	1:F:388:GLN:N	2.37	0.58
1:G:45:VAL:HG12	1:G:58:LYS:HB3	1.85	0.58
1:G:157:HIS:CD2	1:G:229:VAL:HG12	2.38	0.58
1:H:370:ILE:HG22	1:H:371:SER:H	1.69	0.58
1:I:150:ASN:OD1	1:I:151:ASP:N	2.37	0.58
1:I:325:ALA:O	1:I:327:ILE:HG23	2.04	0.58
1:O:80:PRO:HB3	1:h:288:TYR:CZ	2.38	0.58
1:P:454:VAL:HG22	1:P:462:SER:O	2.03	0.58
1:V:378:LEU:HD12	1:V:405:TRP:HA	1.85	0.58
1:X:525:TRP:CZ3	1:X:530:PRO:HG3	2.39	0.58
1:Y:157:HIS:CD2	1:Y:229:VAL:HG12	2.38	0.58
1:Y:378:LEU:HD12	1:Y:405:TRP:HA	1.85	0.58
1:Y:390:THR:HG22	1:Y:391:TYR:H	1.69	0.58
1:2:45:VAL:HG12	1:2:58:LYS:HB3	1.85	0.58
1:3:387:ASN:OD1	1:3:388:GLN:N	2.37	0.58
1:3:390:THR:HG22	1:3:391:TYR:H	1.69	0.58
1:4:454:VAL:HG22	1:4:462:SER:O	2.03	0.58
1:4:525:TRP:CZ3	1:4:530:PRO:HG3	2.39	0.58
1:5:325:ALA:O	1:5:327:ILE:HG23	2.04	0.58
1:6:157:HIS:CD2	1:6:229:VAL:HG12	2.38	0.58
1:a:150:ASN:OD1	1:a:151:ASP:N	2.37	0.58
1:b:150:ASN:OD1	1:b:151:ASP:N	2.37	0.58
1:i:516:ASN:CG	1:i:517:GLY:H	2.08	0.58
1:k:363:THR:OG1	1:k:366:ASP:O	2.14	0.58
1:k:387:ASN:OD1	1:k:388:GLN:N	2.37	0.58
1:o:62:GLN:HE21	1:o:469:THR:HG22	1.69	0.58
1:o:150:ASN:OD1	1:o:151:ASP:N	2.37	0.58
1:p:378:LEU:HD12	1:p:405:TRP:HA	1.85	0.58
1:p:525:TRP:CZ3	1:p:530:PRO:HG3	2.39	0.58
1:q:349:ASP:OD1	1:q:350:LEU:N	2.35	0.58
1:q:525:TRP:CZ3	1:q:530:PRO:HG3	2.39	0.58
1:r:150:ASN:OD1	1:r:151:ASP:N	2.37	0.58
1:t:80:PRO:HB3	1:v:288:TYR:CZ	2.38	0.58
1:t:430:ASP:O	1:v:402:ASN:ND2	2.35	0.58
1:w:45:VAL:HG12	1:w:58:LYS:HB3	1.85	0.58
1:x:525:TRP:CZ3	1:x:530:PRO:HG3	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:ALA:O	1:A:327:ILE:HG23	2.04	0.57
1:B:525:TRP:CZ3	1:B:530:PRO:HG3	2.39	0.57
1:D:390:THR:HG22	1:D:391:TYR:H	1.69	0.57
1:D:525:TRP:CZ3	1:D:530:PRO:HG3	2.39	0.57
1:F:325:ALA:O	1:F:327:ILE:HG23	2.04	0.57
1:F:516:ASN:OD1	1:F:517:GLY:N	2.32	0.57
1:J:45:VAL:HG12	1:J:58:LYS:HB3	1.85	0.57
1:J:402:ASN:ND2	1:L:430:ASP:O	2.35	0.57
1:K:387:ASN:OD1	1:K:388:GLN:N	2.37	0.57
1:L:325:ALA:O	1:L:327:ILE:HG23	2.04	0.57
1:N:62:GLN:HE21	1:N:469:THR:HG22	1.69	0.57
1:N:150:ASN:OD1	1:N:151:ASP:N	2.37	0.57
1:P:150:ASN:OD1	1:P:151:ASP:N	2.37	0.57
1:R:62:GLN:HE21	1:R:469:THR:HG22	1.69	0.57
1:S:288:TYR:CZ	1:U:80:PRO:HB3	2.38	0.57
1:S:491:GLU:O	1:T:496:ALA:HB3	2.03	0.57
1:T:325:ALA:O	1:T:327:ILE:HG23	2.04	0.57
1:W:288:TYR:CZ	1:Y:80:PRO:HB3	2.38	0.57
1:W:525:TRP:CZ3	1:W:530:PRO:HG3	2.39	0.57
1:Y:387:ASN:OD1	1:Y:388:GLN:N	2.37	0.57
1:1:325:ALA:O	1:1:327:ILE:HG23	2.04	0.57
1:1:378:LEU:HD12	1:1:405:TRP:HA	1.85	0.57
1:5:370:ILE:HG22	1:5:371:SER:H	1.69	0.57
1:5:387:ASN:OD1	1:5:388:GLN:N	2.37	0.57
1:6:525:TRP:CZ3	1:6:530:PRO:HG3	2.39	0.57
1:b:325:ALA:O	1:b:327:ILE:HG23	2.04	0.57
1:d:491:GLU:O	1:q:496:ALA:HB3	2.02	0.57
1:h:390:THR:HG22	1:h:391:TYR:H	1.69	0.57
1:h:399:MET:HE1	1:h:427:THR:HB	1.85	0.57
1:n:62:GLN:HE21	1:n:469:THR:HG22	1.69	0.57
1:o:325:ALA:O	1:o:327:ILE:HG23	2.04	0.57
1:p:387:ASN:OD1	1:p:388:GLN:N	2.37	0.57
1:v:325:ALA:O	1:v:327:ILE:HG23	2.04	0.57
1:w:80:PRO:HB3	1:x:288:TYR:CZ	2.38	0.57
1:w:150:ASN:OD1	1:w:151:ASP:N	2.37	0.57
1:x:62:GLN:HE21	1:x:469:THR:HG22	1.69	0.57
1:7:390:THR:HG22	1:7:391:TYR:H	1.69	0.57
1:7:399:MET:HE1	1:7:427:THR:HB	1.85	0.57
1:7:491:GLU:O	1:8:496:ALA:HB3	2.03	0.57
1:A:62:GLN:HE21	1:A:469:THR:HG22	1.69	0.57
1:A:150:ASN:OD1	1:A:151:ASP:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:62:GLN:HE21	1:C:469:THR:HG22	1.69	0.57
1:C:325:ALA:O	1:C:327:ILE:HG23	2.04	0.57
1:C:496:ALA:HB3	1:L:491:GLU:O	2.02	0.57
1:H:387:ASN:OD1	1:H:388:GLN:N	2.37	0.57
1:L:370:ILE:HG22	1:L:371:SER:H	1.70	0.57
1:M:62:GLN:HE21	1:M:469:THR:HG22	1.69	0.57
1:O:370:ILE:HG22	1:O:371:SER:H	1.69	0.57
1:Q:325:ALA:O	1:Q:327:ILE:HG23	2.04	0.57
1:Q:516:ASN:OD1	1:Q:517:GLY:N	2.32	0.57
1:R:45:VAL:HG12	1:R:58:LYS:HB3	1.85	0.57
1:T:45:VAL:HG12	1:T:58:LYS:HB3	1.85	0.57
1:T:378:LEU:HD12	1:T:405:TRP:HA	1.85	0.57
1:V:80:PRO:HB3	1:X:288:TYR:CZ	2.38	0.57
1:V:370:ILE:HG22	1:V:371:SER:H	1.69	0.57
1:V:387:ASN:OD1	1:V:388:GLN:N	2.37	0.57
1:Y:370:ILE:HG22	1:Y:371:SER:H	1.69	0.57
1:Z:378:LEU:HD12	1:Z:405:TRP:HA	1.85	0.57
1:Z:430:ASP:O	1:w:402:ASN:ND2	2.35	0.57
1:2:62:GLN:HE21	1:2:469:THR:HG22	1.69	0.57
1:3:80:PRO:HB3	1:j:288:TYR:CZ	2.38	0.57
1:3:325:ALA:O	1:3:327:ILE:HG23	2.04	0.57
1:3:363:THR:OG1	1:3:366:ASP:O	2.14	0.57
1:4:496:ALA:HB3	1:h:491:GLU:O	2.03	0.57
1:a:62:GLN:HE21	1:a:469:THR:HG22	1.69	0.57
1:a:325:ALA:O	1:a:327:ILE:HG23	2.04	0.57
1:a:491:GLU:O	1:t:496:ALA:HB3	2.03	0.57
1:c:402:ASN:ND2	1:d:430:ASP:O	2.35	0.57
1:d:325:ALA:O	1:d:327:ILE:HG23	2.04	0.57
1:e:456:SER:O	1:q:66:LYS:NZ	2.27	0.57
1:e:516:ASN:CG	1:e:517:GLY:H	2.08	0.57
1:f:387:ASN:OD1	1:f:388:GLN:N	2.37	0.57
1:k:80:PRO:HB3	1:m:288:TYR:CZ	2.38	0.57
1:n:411:THR:HG23	1:n:413:GLU:H	1.67	0.57
1:o:399:MET:HE1	1:o:427:THR:HB	1.85	0.57
1:p:390:THR:HG22	1:p:391:TYR:H	1.69	0.57
1:q:325:ALA:O	1:q:327:ILE:HG23	2.04	0.57
1:s:157:HIS:CD2	1:s:229:VAL:HG12	2.38	0.57
1:t:325:ALA:O	1:t:327:ILE:HG23	2.04	0.57
1:v:390:THR:HG22	1:v:391:TYR:H	1.69	0.57
1:z:62:GLN:HE21	1:z:469:THR:HG22	1.69	0.57
1:A:402:ASN:ND2	1:G:430:ASP:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:62:GLN:HE21	1:D:469:THR:HG22	1.69	0.57
1:E:325:ALA:O	1:E:327:ILE:HG23	2.04	0.57
1:F:378:LEU:HD12	1:F:405:TRP:HA	1.85	0.57
1:G:370:ILE:HG22	1:G:371:SER:H	1.69	0.57
1:L:62:GLN:HE21	1:L:469:THR:HG22	1.69	0.57
1:P:325:ALA:O	1:P:327:ILE:HG23	2.04	0.57
1:P:399:MET:HE1	1:P:427:THR:HB	1.85	0.57
1:R:390:THR:HG22	1:R:391:TYR:H	1.69	0.57
1:S:150:ASN:OD1	1:S:151:ASP:N	2.37	0.57
1:S:402:ASN:ND2	1:U:430:ASP:O	2.35	0.57
1:W:62:GLN:HE21	1:W:469:THR:HG22	1.69	0.57
1:W:325:ALA:O	1:W:327:ILE:HG23	2.04	0.57
1:X:62:GLN:HE21	1:X:469:THR:HG22	1.69	0.57
1:X:325:ALA:O	1:X:327:ILE:HG23	2.04	0.57
1:Z:80:PRO:HB3	1:w:288:TYR:CZ	2.38	0.57
1:1:45:VAL:HG12	1:1:58:LYS:HB3	1.85	0.57
1:6:370:ILE:HG22	1:6:371:SER:H	1.69	0.57
1:d:45:VAL:HG12	1:d:58:LYS:HB3	1.85	0.57
1:d:370:ILE:HG22	1:d:371:SER:H	1.70	0.57
1:f:525:TRP:CZ3	1:f:530:PRO:HG3	2.39	0.57
1:h:150:ASN:OD1	1:h:151:ASP:N	2.37	0.57
1:n:150:ASN:OD1	1:n:151:ASP:N	2.37	0.57
1:p:363:THR:OG1	1:p:366:ASP:O	2.14	0.57
1:r:62:GLN:HE21	1:r:469:THR:HG22	1.69	0.57
1:y:430:ASP:O	1:7:402:ASN:ND2	2.35	0.57
1:z:363:THR:OG1	1:z:366:ASP:O	2.14	0.57
1:7:150:ASN:OD1	1:7:151:ASP:N	2.37	0.57
1:8:107:PHE:O	1:8:412:ARG:NH1	2.21	0.57
1:B:390:THR:HG22	1:B:391:TYR:H	1.69	0.57
1:E:399:MET:HE1	1:E:427:THR:HB	1.85	0.57
1:F:80:PRO:HB3	1:Q:288:TYR:CZ	2.38	0.57
1:G:399:MET:HE1	1:G:427:THR:HB	1.85	0.57
1:I:399:MET:HE1	1:I:427:THR:HB	1.85	0.57
1:K:80:PRO:HB3	1:8:288:TYR:CZ	2.38	0.57
1:K:390:THR:HG22	1:K:391:TYR:H	1.69	0.57
1:K:399:MET:HE1	1:K:427:THR:HB	1.85	0.57
1:K:525:TRP:CZ3	1:K:530:PRO:HG3	2.39	0.57
1:L:399:MET:HE1	1:L:427:THR:HB	1.85	0.57
1:N:411:THR:HG23	1:N:413:GLU:H	1.67	0.57
1:Q:62:GLN:HE21	1:Q:469:THR:HG22	1.69	0.57
1:Q:390:THR:HG22	1:Q:391:TYR:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:370:ILE:HG22	1:S:371:SER:H	1.69	0.57
1:U:150:ASN:OD1	1:U:151:ASP:N	2.37	0.57
1:U:378:LEU:HD12	1:U:405:TRP:HA	1.85	0.57
1:V:62:GLN:HE21	1:V:469:THR:HG22	1.69	0.57
1:4:288:TYR:CZ	1:f:80:PRO:HB3	2.38	0.57
1:6:399:MET:HE1	1:6:427:THR:HB	1.85	0.57
1:e:390:THR:HG22	1:e:391:TYR:H	1.69	0.57
1:f:390:THR:HG22	1:f:391:TYR:H	1.69	0.57
1:g:62:GLN:HE21	1:g:469:THR:HG22	1.69	0.57
1:k:325:ALA:O	1:k:327:ILE:HG23	2.04	0.57
1:p:62:GLN:HE21	1:p:469:THR:HG22	1.69	0.57
1:q:62:GLN:HE21	1:q:469:THR:HG22	1.69	0.57
1:s:62:GLN:HE21	1:s:469:THR:HG22	1.69	0.57
1:t:62:GLN:HE21	1:t:469:THR:HG22	1.69	0.57
1:u:325:ALA:O	1:u:327:ILE:HG23	2.04	0.57
1:w:454:VAL:HG22	1:w:462:SER:O	2.03	0.57
1:x:45:VAL:HG12	1:x:58:LYS:HB3	1.85	0.57
1:x:390:THR:HG22	1:x:391:TYR:H	1.69	0.57
1:y:370:ILE:HG22	1:y:371:SER:H	1.69	0.57
1:B:370:ILE:HG22	1:B:371:SER:H	1.69	0.57
1:C:515:LYS:HB3	1:C:516:ASN:HB3	1.84	0.57
1:F:370:ILE:HG22	1:F:371:SER:H	1.69	0.57
1:G:491:GLU:O	1:H:496:ALA:HB3	2.04	0.57
1:H:378:LEU:HD12	1:H:405:TRP:HA	1.85	0.57
1:L:45:VAL:HG12	1:L:58:LYS:HB3	1.85	0.57
1:M:378:LEU:HD12	1:M:405:TRP:HA	1.85	0.57
1:P:45:VAL:HG12	1:P:58:LYS:HB3	1.85	0.57
1:S:454:VAL:HG22	1:S:462:SER:O	2.03	0.57
1:U:525:TRP:CZ3	1:U:530:PRO:HG3	2.39	0.57
1:V:325:ALA:O	1:V:327:ILE:HG23	2.04	0.57
1:W:390:THR:HG22	1:W:391:TYR:H	1.69	0.57
1:Y:62:GLN:HE21	1:Y:469:THR:HG22	1.69	0.57
1:Y:325:ALA:O	1:Y:327:ILE:HG23	2.04	0.57
1:Z:370:ILE:HG22	1:Z:371:SER:H	1.69	0.57
1:3:399:MET:HE1	1:3:427:THR:HB	1.85	0.57
1:5:378:LEU:HD12	1:5:405:TRP:HA	1.85	0.57
1:d:62:GLN:HE21	1:d:469:THR:HG22	1.69	0.57
1:d:399:MET:HE1	1:d:427:THR:HB	1.85	0.57
1:f:399:MET:HE1	1:f:427:THR:HB	1.85	0.57
1:f:456:SER:O	1:h:66:LYS:NZ	2.27	0.57
1:g:390:THR:HG22	1:g:391:TYR:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:390:THR:HG22	1:i:391:TYR:H	1.69	0.57
1:j:378:LEU:HD12	1:j:405:TRP:HA	1.85	0.57
1:k:399:MET:HE1	1:k:427:THR:HB	1.85	0.57
1:l:390:THR:HG22	1:l:391:TYR:H	1.69	0.57
1:n:363:THR:OG1	1:n:366:ASP:O	2.14	0.57
1:o:45:VAL:HG12	1:o:58:LYS:HB3	1.85	0.57
1:p:456:SER:O	1:u:66:LYS:NZ	2.27	0.57
1:s:378:LEU:HD12	1:s:405:TRP:HA	1.85	0.57
1:t:378:LEU:HD12	1:t:405:TRP:HA	1.85	0.57
1:t:516:ASN:OD1	1:t:517:GLY:N	2.32	0.57
1:u:399:MET:HE1	1:u:427:THR:HB	1.85	0.57
1:v:62:GLN:HE21	1:v:469:THR:HG22	1.69	0.57
1:w:370:ILE:HG22	1:w:371:SER:H	1.69	0.57
1:z:370:ILE:HG22	1:z:371:SER:H	1.69	0.57
1:B:150:ASN:OD1	1:B:151:ASP:N	2.37	0.57
1:B:456:SER:O	1:C:66:LYS:NZ	2.27	0.57
1:F:62:GLN:HE21	1:F:469:THR:HG22	1.69	0.57
1:F:64:LEU:HD23	1:G:453:PRO:HB2	1.86	0.57
1:H:399:MET:HE1	1:H:427:THR:HB	1.85	0.57
1:J:379:ARG:O	1:J:381:GLN:HG3	2.05	0.57
1:K:378:LEU:HD12	1:K:405:TRP:HA	1.85	0.57
1:O:150:ASN:OD1	1:O:151:ASP:N	2.37	0.57
1:O:430:ASP:O	1:h:402:ASN:ND2	2.35	0.57
1:R:456:SER:O	1:V:66:LYS:NZ	2.27	0.57
1:U:370:ILE:HG22	1:U:371:SER:H	1.69	0.57
1:Z:150:ASN:OD1	1:Z:151:ASP:N	2.37	0.57
1:Z:525:TRP:CZ3	1:Z:530:PRO:HG3	2.39	0.57
1:3:62:GLN:HE21	1:3:469:THR:HG22	1.69	0.57
1:b:399:MET:HE1	1:b:427:THR:HB	1.85	0.57
1:c:390:THR:HG22	1:c:391:TYR:H	1.69	0.57
1:e:150:ASN:OD1	1:e:151:ASP:N	2.37	0.57
1:g:45:VAL:HG12	1:g:58:LYS:HB3	1.85	0.57
1:i:370:ILE:HG22	1:i:371:SER:H	1.69	0.57
1:j:370:ILE:HG22	1:j:371:SER:H	1.69	0.57
1:j:399:MET:HE1	1:j:427:THR:HB	1.85	0.57
1:k:62:GLN:HE21	1:k:469:THR:HG22	1.69	0.57
1:k:378:LEU:HD12	1:k:405:TRP:HA	1.85	0.57
1:m:370:ILE:HG22	1:m:371:SER:H	1.70	0.57
1:m:378:LEU:HD12	1:m:405:TRP:HA	1.85	0.57
1:m:399:MET:HE1	1:m:427:THR:HB	1.85	0.57
1:q:515:LYS:HB3	1:q:516:ASN:HB3	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:387:ASN:OD1	1:w:388:GLN:N	2.37	0.57
1:z:45:VAL:HG12	1:z:58:LYS:HB3	1.85	0.57
1:z:150:ASN:OD1	1:z:151:ASP:N	2.37	0.57
1:z:378:LEU:HD12	1:z:405:TRP:HA	1.85	0.57
1:A:491:GLU:O	1:F:496:ALA:HB3	2.03	0.57
1:C:399:MET:HE1	1:C:427:THR:HB	1.85	0.57
1:D:399:MET:HE1	1:D:427:THR:HB	1.85	0.57
1:K:430:ASP:O	1:8:402:ASN:ND2	2.35	0.57
1:K:456:SER:O	1:7:66:LYS:NZ	2.27	0.57
1:M:399:MET:HE1	1:M:427:THR:HB	1.85	0.57
1:U:387:ASN:OD1	1:U:388:GLN:N	2.37	0.57
1:U:390:THR:HG22	1:U:391:TYR:H	1.69	0.57
1:X:390:THR:HG22	1:X:391:TYR:H	1.69	0.57
1:Z:390:THR:HG22	1:Z:391:TYR:H	1.69	0.57
1:b:45:VAL:HG12	1:b:58:LYS:HB3	1.85	0.57
1:c:150:ASN:OD1	1:c:151:ASP:N	2.37	0.57
1:c:344:SER:O	1:c:345:LEU:HB2	2.05	0.57
1:c:379:ARG:O	1:c:381:GLN:HG3	2.05	0.57
1:g:150:ASN:OD1	1:g:151:ASP:N	2.37	0.57
1:i:45:VAL:HG12	1:i:58:LYS:HB3	1.85	0.57
1:l:45:VAL:HG12	1:l:58:LYS:HB3	1.85	0.57
1:l:370:ILE:HG22	1:l:371:SER:H	1.70	0.57
1:p:45:VAL:HG12	1:p:58:LYS:HB3	1.85	0.57
1:p:66:LYS:NZ	1:q:456:SER:O	2.27	0.57
1:q:390:THR:HG22	1:q:391:TYR:H	1.69	0.57
1:q:399:MET:HE1	1:q:427:THR:HB	1.85	0.57
1:s:370:ILE:HG22	1:s:371:SER:H	1.69	0.57
1:s:399:MET:HE1	1:s:427:THR:HB	1.85	0.57
1:t:370:ILE:HG22	1:t:371:SER:H	1.69	0.57
1:t:379:ARG:O	1:t:381:GLN:HG3	2.05	0.57
1:z:390:THR:HG22	1:z:391:TYR:H	1.69	0.57
1:D:45:VAL:HG12	1:D:58:LYS:HB3	1.85	0.57
1:F:379:ARG:O	1:F:381:GLN:HG3	2.05	0.57
1:G:62:GLN:HE21	1:G:469:THR:HG22	1.69	0.57
1:G:379:ARG:O	1:G:381:GLN:HG3	2.05	0.57
1:J:150:ASN:OD1	1:J:151:ASP:N	2.37	0.57
1:J:344:SER:O	1:J:345:LEU:HB2	2.05	0.57
1:K:62:GLN:HE21	1:K:469:THR:HG22	1.69	0.57
1:K:402:ASN:ND2	1:1:430:ASP:O	2.35	0.57
1:Q:370:ILE:HG22	1:Q:371:SER:H	1.69	0.57
1:S:387:ASN:OD1	1:S:388:GLN:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:45:VAL:HG12	1:U:58:LYS:HB3	1.85	0.57
1:W:370:ILE:HG22	1:W:371:SER:H	1.69	0.57
1:X:370:ILE:HG22	1:X:371:SER:H	1.69	0.57
1:1:62:GLN:HE21	1:1:469:THR:HG22	1.69	0.57
1:3:370:ILE:HG22	1:3:371:SER:H	1.70	0.57
1:3:378:LEU:HD12	1:3:405:TRP:HA	1.85	0.57
1:4:379:ARG:O	1:4:381:GLN:HG3	2.05	0.57
1:5:399:MET:HE1	1:5:427:THR:HB	1.85	0.57
1:e:370:ILE:HG22	1:e:371:SER:H	1.70	0.57
1:f:378:LEU:HD12	1:f:405:TRP:HA	1.85	0.57
1:g:378:LEU:HD12	1:g:405:TRP:HA	1.85	0.57
1:k:370:ILE:HG22	1:k:371:SER:H	1.70	0.57
1:o:344:SER:O	1:o:345:LEU:HB2	2.05	0.57
1:q:379:ARG:O	1:q:381:GLN:HG3	2.05	0.57
1:v:370:ILE:HG22	1:v:371:SER:H	1.69	0.57
1:v:399:MET:HE1	1:v:427:THR:HB	1.85	0.57
1:y:62:GLN:HE21	1:y:469:THR:HG22	1.69	0.57
1:y:150:ASN:OD1	1:y:151:ASP:N	2.37	0.57
1:8:379:ARG:O	1:8:381:GLN:HG3	2.05	0.57
1:A:379:ARG:O	1:A:381:GLN:HG3	2.05	0.57
1:C:379:ARG:O	1:C:381:GLN:HG3	2.05	0.57
1:C:390:THR:HG22	1:C:391:TYR:H	1.69	0.57
1:C:456:SER:O	1:D:66:LYS:NZ	2.27	0.57
1:F:525:TRP:CZ3	1:F:530:PRO:HG3	2.39	0.57
1:I:45:VAL:HG12	1:I:58:LYS:HB3	1.85	0.57
1:J:390:THR:HG22	1:J:391:TYR:H	1.69	0.57
1:L:378:LEU:HD12	1:L:405:TRP:HA	1.85	0.57
1:N:399:MET:HE1	1:N:427:THR:HB	1.85	0.57
1:P:344:SER:O	1:P:345:LEU:HB2	2.05	0.57
1:Q:399:MET:HE1	1:Q:427:THR:HB	1.85	0.57
1:T:344:SER:O	1:T:345:LEU:HB2	2.05	0.57
1:T:430:ASP:O	1:f:402:ASN:ND2	2.35	0.57
1:Y:379:ARG:O	1:Y:381:GLN:HG3	2.05	0.57
1:Z:45:VAL:HG12	1:Z:58:LYS:HB3	1.85	0.57
1:Z:387:ASN:OD1	1:Z:388:GLN:N	2.37	0.57
1:1:344:SER:O	1:1:345:LEU:HB2	2.05	0.57
1:4:402:ASN:ND2	1:f:430:ASP:O	2.35	0.57
1:5:62:GLN:HE21	1:5:469:THR:HG22	1.69	0.57
1:6:62:GLN:HE21	1:6:469:THR:HG22	1.69	0.57
1:6:379:ARG:O	1:6:381:GLN:HG3	2.05	0.57
1:c:62:GLN:HE21	1:c:469:THR:HG22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:62:GLN:HE21	1:f:469:THR:HG22	1.69	0.57
1:g:370:ILE:HG22	1:g:371:SER:H	1.70	0.57
1:j:344:SER:O	1:j:345:LEU:HB2	2.05	0.57
1:l:325:ALA:O	1:l:327:ILE:HG23	2.04	0.57
1:m:344:SER:O	1:m:345:LEU:HB2	2.05	0.57
1:r:370:ILE:HG22	1:r:371:SER:H	1.70	0.57
1:t:344:SER:O	1:t:345:LEU:HB2	2.05	0.57
1:t:525:TRP:CZ3	1:t:530:PRO:HG3	2.39	0.57
1:A:390:THR:HG22	1:A:391:TYR:H	1.69	0.57
1:D:370:ILE:HG22	1:D:371:SER:H	1.69	0.57
1:F:344:SER:O	1:F:345:LEU:HB2	2.05	0.57
1:H:390:THR:HG22	1:H:391:TYR:H	1.69	0.57
1:J:62:GLN:HE21	1:J:469:THR:HG22	1.69	0.57
1:L:344:SER:O	1:L:345:LEU:HB2	2.05	0.57
1:M:370:ILE:HG22	1:M:371:SER:H	1.70	0.57
1:S:378:LEU:HD12	1:S:405:TRP:HA	1.85	0.57
1:V:379:ARG:O	1:V:381:GLN:HG3	2.05	0.57
1:2:370:ILE:HG22	1:2:371:SER:H	1.69	0.57
1:2:390:THR:HG22	1:2:391:TYR:H	1.69	0.57
1:5:45:VAL:HG12	1:5:58:LYS:HB3	1.85	0.57
1:e:62:GLN:HE21	1:e:469:THR:HG22	1.69	0.57
1:i:62:GLN:HE21	1:i:469:THR:HG22	1.69	0.57
1:i:325:ALA:O	1:i:327:ILE:HG23	2.04	0.57
1:k:344:SER:O	1:k:345:LEU:HB2	2.05	0.57
1:n:379:ARG:O	1:n:381:GLN:HG3	2.05	0.57
1:n:390:THR:HG22	1:n:391:TYR:H	1.69	0.57
1:n:399:MET:HE1	1:n:427:THR:HB	1.85	0.57
1:p:370:ILE:HG22	1:p:371:SER:H	1.69	0.57
1:p:399:MET:HE1	1:p:427:THR:HB	1.85	0.57
1:s:390:THR:HG22	1:s:391:TYR:H	1.69	0.57
1:w:378:LEU:HD12	1:w:405:TRP:HA	1.85	0.57
1:z:399:MET:HE1	1:z:427:THR:HB	1.85	0.57
1:B:62:GLN:HE21	1:B:469:THR:HG22	1.69	0.56
1:B:344:SER:O	1:B:345:LEU:HB2	2.05	0.56
1:C:206:SER:HB3	1:C:207:ASN:CA	2.36	0.56
1:H:45:VAL:HG12	1:H:58:LYS:HB3	1.85	0.56
1:H:62:GLN:HE21	1:H:469:THR:HG22	1.69	0.56
1:I:370:ILE:HG22	1:I:371:SER:H	1.70	0.56
1:M:344:SER:O	1:M:345:LEU:HB2	2.05	0.56
1:M:379:ARG:O	1:M:381:GLN:HG3	2.05	0.56
1:M:390:THR:HG22	1:M:391:TYR:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:379:ARG:O	1:N:381:GLN:HG3	2.05	0.56
1:N:390:THR:HG22	1:N:391:TYR:H	1.69	0.56
1:O:62:GLN:HE21	1:O:469:THR:HG22	1.69	0.56
1:T:62:GLN:HE21	1:T:469:THR:HG22	1.69	0.56
1:Y:66:LYS:NZ	1:x:456:SER:O	2.27	0.56
1:6:325:ALA:O	1:6:327:ILE:HG23	2.04	0.56
1:a:379:ARG:O	1:a:381:GLN:HG3	2.05	0.56
1:d:344:SER:O	1:d:345:LEU:HB2	2.05	0.56
1:d:378:LEU:HD12	1:d:405:TRP:HA	1.85	0.56
1:e:325:ALA:O	1:e:327:ILE:HG23	2.04	0.56
1:h:379:ARG:O	1:h:381:GLN:HG3	2.05	0.56
1:l:62:GLN:HE21	1:l:469:THR:HG22	1.69	0.56
1:n:454:VAL:HG22	1:n:462:SER:O	2.03	0.56
1:o:379:ARG:O	1:o:381:GLN:HG3	2.05	0.56
1:r:390:THR:HG22	1:r:391:TYR:H	1.69	0.56
1:w:430:ASP:O	1:x:402:ASN:ND2	2.35	0.56
1:x:344:SER:O	1:x:345:LEU:HB2	2.05	0.56
1:7:370:ILE:HG22	1:7:371:SER:H	1.69	0.56
1:B:325:ALA:O	1:B:327:ILE:HG23	2.04	0.56
1:G:390:THR:HG22	1:G:391:TYR:H	1.69	0.56
1:I:121:ARG:HB3	1:I:246:TRP:CE3	2.41	0.56
1:K:45:VAL:HG12	1:K:58:LYS:HB3	1.85	0.56
1:P:379:ARG:O	1:P:381:GLN:HG3	2.05	0.56
1:R:344:SER:O	1:R:345:LEU:HB2	2.05	0.56
1:T:206:SER:HB3	1:T:207:ASN:CA	2.36	0.56
1:1:206:SER:HB3	1:1:207:ASN:CA	2.36	0.56
1:2:169:ALA:HB2	1:2:191:TYR:CE1	2.41	0.56
1:3:344:SER:O	1:3:345:LEU:HB2	2.05	0.56
1:a:370:ILE:HG22	1:a:371:SER:H	1.69	0.56
1:a:390:THR:HG22	1:a:391:TYR:H	1.69	0.56
1:b:370:ILE:HG22	1:b:371:SER:H	1.69	0.56
1:e:344:SER:O	1:e:345:LEU:HB2	2.05	0.56
1:f:45:VAL:HG12	1:f:58:LYS:HB3	1.85	0.56
1:g:399:MET:HE1	1:g:427:THR:HB	1.85	0.56
1:h:169:ALA:HB2	1:h:191:TYR:CE1	2.41	0.56
1:o:390:THR:HG22	1:o:391:TYR:H	1.69	0.56
1:q:206:SER:HB3	1:q:207:ASN:CA	2.36	0.56
1:r:379:ARG:O	1:r:381:GLN:HG3	2.05	0.56
1:s:344:SER:O	1:s:345:LEU:HB2	2.05	0.56
1:7:169:ALA:HB2	1:7:191:TYR:CE1	2.41	0.56
1:7:379:ARG:O	1:7:381:GLN:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:370:ILE:HG22	1:A:371:SER:H	1.69	0.56
1:B:182:PRO:C	1:B:184:GLN:H	2.14	0.56
1:C:370:ILE:HG22	1:C:371:SER:H	1.70	0.56
1:D:202:GLU:HB2	1:D:203:MET:HA	1.88	0.56
1:E:206:SER:HB3	1:E:207:ASN:CA	2.36	0.56
1:F:174:ASP:HA	1:Q:266:THR:HA	1.88	0.56
1:F:206:SER:HB3	1:F:207:ASN:CA	2.36	0.56
1:G:121:ARG:HB3	1:G:246:TRP:CE3	2.41	0.56
1:G:325:ALA:O	1:G:327:ILE:HG23	2.04	0.56
1:J:371:SER:HA	1:J:525:TRP:CE2	2.41	0.56
1:K:202:GLU:HB2	1:K:203:MET:HA	1.88	0.56
1:K:370:ILE:HG22	1:K:371:SER:H	1.69	0.56
1:L:121:ARG:HB3	1:L:246:TRP:CE3	2.41	0.56
1:M:206:SER:HB3	1:M:207:ASN:CA	2.36	0.56
1:N:454:VAL:HG22	1:N:462:SER:O	2.03	0.56
1:O:121:ARG:HB3	1:O:246:TRP:CE3	2.41	0.56
1:O:169:ALA:HB2	1:O:191:TYR:CE1	2.41	0.56
1:O:379:ARG:O	1:O:381:GLN:HG3	2.05	0.56
1:O:390:THR:HG22	1:O:391:TYR:H	1.69	0.56
1:P:347:PRO:O	1:P:348:THR:OG1	2.22	0.56
1:P:370:ILE:HG22	1:P:371:SER:H	1.69	0.56
1:P:390:THR:HG22	1:P:391:TYR:H	1.69	0.56
1:Q:371:SER:HA	1:Q:525:TRP:CE2	2.41	0.56
1:R:379:ARG:O	1:R:381:GLN:HG3	2.05	0.56
1:R:402:ASN:ND2	1:S:430:ASP:O	2.35	0.56
1:U:62:GLN:HE21	1:U:469:THR:HG22	1.69	0.56
1:V:121:ARG:HB3	1:V:246:TRP:CE3	2.41	0.56
1:W:169:ALA:HB2	1:W:191:TYR:CE1	2.41	0.56
1:W:344:SER:O	1:W:345:LEU:HB2	2.05	0.56
1:X:169:ALA:HB2	1:X:191:TYR:CE1	2.41	0.56
1:X:202:GLU:HB2	1:X:203:MET:HA	1.88	0.56
1:Y:121:ARG:HB3	1:Y:246:TRP:CE3	2.41	0.56
1:2:182:PRO:C	1:2:184:GLN:H	2.14	0.56
1:2:379:ARG:O	1:2:381:GLN:HG3	2.05	0.56
1:3:206:SER:HB3	1:3:207:ASN:CA	2.35	0.56
1:4:202:GLU:HB2	1:4:203:MET:HA	1.88	0.56
1:4:370:ILE:HG22	1:4:371:SER:H	1.70	0.56
1:5:390:THR:HG22	1:5:391:TYR:H	1.69	0.56
1:6:344:SER:O	1:6:345:LEU:HB2	2.05	0.56
1:b:121:ARG:HB3	1:b:246:TRP:CE3	2.41	0.56
1:f:363:THR:OG1	1:f:366:ASP:O	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:370:ILE:HG22	1:f:371:SER:H	1.69	0.56
1:h:325:ALA:O	1:h:327:ILE:HG23	2.04	0.56
1:h:370:ILE:HG22	1:h:371:SER:H	1.69	0.56
1:i:169:ALA:HB2	1:i:191:TYR:CE1	2.41	0.56
1:i:371:SER:HA	1:i:525:TRP:CE2	2.41	0.56
1:j:121:ARG:HB3	1:j:246:TRP:CE3	2.41	0.56
1:j:182:PRO:C	1:j:184:GLN:H	2.14	0.56
1:j:347:PRO:O	1:j:348:THR:OG1	2.23	0.56
1:j:379:ARG:O	1:j:381:GLN:HG3	2.05	0.56
1:k:206:SER:HB3	1:k:207:ASN:CA	2.35	0.56
1:l:371:SER:HA	1:l:525:TRP:CE2	2.41	0.56
1:l:379:ARG:O	1:l:381:GLN:HG3	2.05	0.56
1:m:121:ARG:HB3	1:m:246:TRP:CE3	2.41	0.56
1:o:347:PRO:O	1:o:348:THR:OG1	2.22	0.56
1:o:370:ILE:HG22	1:o:371:SER:H	1.69	0.56
1:r:169:ALA:HB2	1:r:191:TYR:CE1	2.41	0.56
1:s:121:ARG:HB3	1:s:246:TRP:CE3	2.41	0.56
1:s:206:SER:HB3	1:s:207:ASN:CA	2.36	0.56
1:s:347:PRO:O	1:s:348:THR:OG1	2.23	0.56
1:s:371:SER:HA	1:s:525:TRP:CE2	2.41	0.56
1:s:379:ARG:O	1:s:381:GLN:HG3	2.05	0.56
1:t:206:SER:HB3	1:t:207:ASN:CA	2.35	0.56
1:t:402:ASN:ND2	1:u:430:ASP:O	2.35	0.56
1:u:62:GLN:HE21	1:u:469:THR:HG22	1.69	0.56
1:u:182:PRO:C	1:u:184:GLN:H	2.14	0.56
1:u:206:SER:HB3	1:u:207:ASN:CA	2.36	0.56
1:v:371:SER:HA	1:v:525:TRP:CE2	2.41	0.56
1:x:169:ALA:HB2	1:x:191:TYR:CE1	2.41	0.56
1:x:182:PRO:C	1:x:184:GLN:H	2.14	0.56
1:y:121:ARG:HB3	1:y:246:TRP:CE3	2.41	0.56
1:y:379:ARG:O	1:y:381:GLN:HG3	2.05	0.56
1:7:62:GLN:HE21	1:7:469:THR:HG22	1.69	0.56
1:7:325:ALA:O	1:7:327:ILE:HG23	2.04	0.56
1:8:169:ALA:HB2	1:8:191:TYR:CE1	2.40	0.56
1:8:202:GLU:HB2	1:8:203:MET:HA	1.88	0.56
1:8:370:ILE:HG22	1:8:371:SER:H	1.70	0.56
1:A:266:THR:HA	1:G:174:ASP:HA	1.87	0.56
1:B:202:GLU:HB2	1:B:203:MET:HA	1.88	0.56
1:C:182:PRO:C	1:C:184:GLN:H	2.14	0.56
1:E:62:GLN:HE21	1:E:469:THR:HG22	1.69	0.56
1:E:182:PRO:C	1:E:184:GLN:H	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:390:THR:HG22	1:E:391:TYR:H	1.69	0.56
1:F:169:ALA:HB2	1:F:191:TYR:CE1	2.41	0.56
1:G:344:SER:O	1:G:345:LEU:HB2	2.05	0.56
1:H:169:ALA:HB2	1:H:191:TYR:CE1	2.41	0.56
1:H:371:SER:HA	1:H:525:TRP:CE2	2.41	0.56
1:I:182:PRO:C	1:I:184:GLN:H	2.14	0.56
1:J:121:ARG:HB3	1:J:246:TRP:CE3	2.41	0.56
1:M:121:ARG:HB3	1:M:246:TRP:CE3	2.41	0.56
1:M:371:SER:HA	1:M:525:TRP:CE2	2.41	0.56
1:N:202:GLU:HB2	1:N:203:MET:HA	1.88	0.56
1:O:206:SER:HB3	1:O:207:ASN:CA	2.36	0.56
1:R:169:ALA:HB2	1:R:191:TYR:CE1	2.41	0.56
1:R:182:PRO:C	1:R:184:GLN:H	2.14	0.56
1:R:371:SER:HA	1:R:525:TRP:CE2	2.41	0.56
1:S:202:GLU:HB2	1:S:203:MET:HA	1.88	0.56
1:T:169:ALA:HB2	1:T:191:TYR:CE1	2.41	0.56
1:U:169:ALA:HB2	1:U:191:TYR:CE1	2.41	0.56
1:U:379:ARG:O	1:U:381:GLN:HG3	2.05	0.56
1:V:402:ASN:ND2	1:5:430:ASP:O	2.35	0.56
1:W:402:ASN:ND2	1:Y:430:ASP:O	2.35	0.56
1:X:344:SER:O	1:X:345:LEU:HB2	2.05	0.56
1:Z:169:ALA:HB2	1:Z:191:TYR:CE1	2.41	0.56
1:Z:379:ARG:O	1:Z:381:GLN:HG3	2.05	0.56
1:1:371:SER:HA	1:1:525:TRP:CE2	2.41	0.56
1:4:169:ALA:HB2	1:4:191:TYR:CE1	2.40	0.56
1:5:169:ALA:HB2	1:5:191:TYR:CE1	2.41	0.56
1:5:371:SER:HA	1:5:525:TRP:CE2	2.41	0.56
1:6:121:ARG:HB3	1:6:246:TRP:CE3	2.41	0.56
1:6:390:THR:HG22	1:6:391:TYR:H	1.69	0.56
1:a:371:SER:HA	1:a:525:TRP:CE2	2.41	0.56
1:a:430:ASP:O	1:b:402:ASN:ND2	2.35	0.56
1:c:371:SER:HA	1:c:525:TRP:CE2	2.41	0.56
1:d:121:ARG:HB3	1:d:246:TRP:CE3	2.41	0.56
1:d:371:SER:HA	1:d:525:TRP:CE2	2.41	0.56
1:e:182:PRO:C	1:e:184:GLN:H	2.14	0.56
1:e:202:GLU:HB2	1:e:203:MET:HA	1.88	0.56
1:g:344:SER:O	1:g:345:LEU:HB2	2.05	0.56
1:g:347:PRO:O	1:g:348:THR:OG1	2.22	0.56
1:h:62:GLN:HE21	1:h:469:THR:HG22	1.69	0.56
1:h:182:PRO:C	1:h:184:GLN:H	2.14	0.56
1:i:206:SER:HB3	1:i:207:ASN:CA	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:430:ASP:O	1:m:402:ASN:ND2	2.35	0.56
1:l:169:ALA:HB2	1:l:191:TYR:CE1	2.41	0.56
1:m:182:PRO:C	1:m:184:GLN:H	2.14	0.56
1:n:202:GLU:HB2	1:n:203:MET:HA	1.88	0.56
1:q:182:PRO:C	1:q:184:GLN:H	2.14	0.56
1:q:370:ILE:HG22	1:q:371:SER:H	1.70	0.56
1:r:182:PRO:C	1:r:184:GLN:H	2.14	0.56
1:u:344:SER:O	1:u:345:LEU:HB2	2.05	0.56
1:u:390:THR:HG22	1:u:391:TYR:H	1.69	0.56
1:v:206:SER:HB3	1:v:207:ASN:CA	2.36	0.56
1:x:371:SER:HA	1:x:525:TRP:CE2	2.41	0.56
1:x:379:ARG:O	1:x:381:GLN:HG3	2.05	0.56
1:y:169:ALA:HB2	1:y:191:TYR:CE1	2.41	0.56
1:y:206:SER:HB3	1:y:207:ASN:CA	2.36	0.56
1:z:202:GLU:HB2	1:z:203:MET:HA	1.88	0.56
1:z:347:PRO:O	1:z:348:THR:OG1	2.23	0.56
1:7:182:PRO:C	1:7:184:GLN:H	2.14	0.56
1:A:182:PRO:C	1:A:184:GLN:H	2.14	0.56
1:A:371:SER:HA	1:A:525:TRP:CE2	2.41	0.56
1:B:379:ARG:O	1:B:381:GLN:HG3	2.05	0.56
1:E:344:SER:O	1:E:345:LEU:HB2	2.05	0.56
1:E:430:ASP:O	1:F:402:ASN:ND2	2.35	0.56
1:F:390:THR:HG22	1:F:391:TYR:H	1.69	0.56
1:G:169:ALA:HB2	1:G:191:TYR:CE1	2.41	0.56
1:I:202:GLU:HB2	1:I:203:MET:HA	1.88	0.56
1:I:379:ARG:O	1:I:381:GLN:HG3	2.05	0.56
1:K:169:ALA:HB2	1:K:191:TYR:CE1	2.41	0.56
1:K:325:ALA:O	1:K:327:ILE:HG23	2.04	0.56
1:L:169:ALA:HB2	1:L:191:TYR:CE1	2.41	0.56
1:L:371:SER:HA	1:L:525:TRP:CE2	2.41	0.56
1:M:182:PRO:C	1:M:184:GLN:H	2.14	0.56
1:M:347:PRO:O	1:M:348:THR:OG1	2.23	0.56
1:N:169:ALA:HB2	1:N:191:TYR:CE1	2.41	0.56
1:P:121:ARG:HB3	1:P:246:TRP:CE3	2.41	0.56
1:Q:121:ARG:HB3	1:Q:246:TRP:CE3	2.41	0.56
1:Q:202:GLU:HB2	1:Q:203:MET:HA	1.88	0.56
1:Q:206:SER:HB3	1:Q:207:ASN:CA	2.36	0.56
1:T:371:SER:HA	1:T:525:TRP:CE2	2.41	0.56
1:V:202:GLU:HB2	1:V:203:MET:HA	1.88	0.56
1:W:121:ARG:HB3	1:W:246:TRP:CE3	2.40	0.56
1:W:182:PRO:C	1:W:184:GLN:H	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:202:GLU:HB2	1:W:203:MET:HA	1.88	0.56
1:W:371:SER:HA	1:W:525:TRP:CE2	2.41	0.56
1:X:121:ARG:HB3	1:X:246:TRP:CE3	2.41	0.56
1:X:182:PRO:C	1:X:184:GLN:H	2.14	0.56
1:X:371:SER:HA	1:X:525:TRP:CE2	2.41	0.56
1:Y:169:ALA:HB2	1:Y:191:TYR:CE1	2.41	0.56
1:Y:202:GLU:HB2	1:Y:203:MET:HA	1.88	0.56
1:3:430:ASP:O	1:j:402:ASN:ND2	2.35	0.56
1:a:182:PRO:C	1:a:184:GLN:H	2.14	0.56
1:b:182:PRO:C	1:b:184:GLN:H	2.14	0.56
1:b:202:GLU:HB2	1:b:203:MET:HA	1.88	0.56
1:b:379:ARG:O	1:b:381:GLN:HG3	2.05	0.56
1:c:121:ARG:HB3	1:c:246:TRP:CE3	2.41	0.56
1:c:370:ILE:HG22	1:c:371:SER:H	1.69	0.56
1:f:325:ALA:O	1:f:327:ILE:HG23	2.04	0.56
1:g:121:ARG:HB3	1:g:246:TRP:CE3	2.41	0.56
1:g:202:GLU:HB2	1:g:203:MET:HA	1.88	0.56
1:g:379:ARG:O	1:g:381:GLN:HG3	2.05	0.56
1:i:379:ARG:O	1:i:381:GLN:HG3	2.05	0.56
1:l:206:SER:HB3	1:l:207:ASN:CA	2.36	0.56
1:m:379:ARG:O	1:m:381:GLN:HG3	2.05	0.56
1:n:121:ARG:HB3	1:n:246:TRP:CE3	2.41	0.56
1:o:121:ARG:HB3	1:o:246:TRP:CE3	2.41	0.56
1:p:121:ARG:HB3	1:p:246:TRP:CE3	2.41	0.56
1:p:202:GLU:HB2	1:p:203:MET:HA	1.88	0.56
1:s:182:PRO:C	1:s:184:GLN:H	2.14	0.56
1:t:169:ALA:HB2	1:t:191:TYR:CE1	2.41	0.56
1:t:174:ASP:HA	1:v:266:THR:HA	1.88	0.56
1:v:121:ARG:HB3	1:v:246:TRP:CE3	2.41	0.56
1:v:202:GLU:HB2	1:v:203:MET:HA	1.88	0.56
1:w:202:GLU:HB2	1:w:203:MET:HA	1.88	0.56
1:w:347:PRO:O	1:w:348:THR:OG1	2.23	0.56
1:y:390:THR:HG22	1:y:391:TYR:H	1.69	0.56
1:z:344:SER:O	1:z:345:LEU:HB2	2.05	0.56
1:8:182:PRO:C	1:8:184:GLN:H	2.14	0.56
1:D:121:ARG:HB3	1:D:246:TRP:CE3	2.41	0.56
1:E:169:ALA:HB2	1:E:191:TYR:CE1	2.41	0.56
1:G:202:GLU:HB2	1:G:203:MET:HA	1.88	0.56
1:H:430:ASP:O	1:Y:402:ASN:ND2	2.35	0.56
1:I:169:ALA:HB2	1:I:191:TYR:CE1	2.41	0.56
1:J:370:ILE:HG22	1:J:371:SER:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:379:ARG:O	1:L:381:GLN:HG3	2.05	0.56
1:N:121:ARG:HB3	1:N:246:TRP:CE3	2.41	0.56
1:O:344:SER:O	1:O:345:LEU:HB2	2.05	0.56
1:Q:169:ALA:HB2	1:Q:191:TYR:CE1	2.41	0.56
1:Q:379:ARG:O	1:Q:381:GLN:HG3	2.05	0.56
1:S:347:PRO:O	1:S:348:THR:OG1	2.23	0.56
1:U:371:SER:HA	1:U:525:TRP:CE2	2.41	0.56
1:V:371:SER:HA	1:V:525:TRP:CE2	2.41	0.56
1:V:430:ASP:O	1:X:402:ASN:ND2	2.35	0.56
1:Z:62:GLN:HE21	1:Z:469:THR:HG22	1.69	0.56
1:Z:371:SER:HA	1:Z:525:TRP:CE2	2.41	0.56
1:1:121:ARG:HB3	1:1:246:TRP:CE3	2.41	0.56
1:1:169:ALA:HB2	1:1:191:TYR:CE1	2.41	0.56
1:1:370:ILE:HG22	1:1:371:SER:H	1.70	0.56
1:4:182:PRO:C	1:4:184:GLN:H	2.14	0.56
1:4:344:SER:O	1:4:345:LEU:HB2	2.05	0.56
1:6:169:ALA:HB2	1:6:191:TYR:CE1	2.41	0.56
1:6:174:ASP:HA	1:a:266:THR:HA	1.88	0.56
1:6:202:GLU:HB2	1:6:203:MET:HA	1.88	0.56
1:d:169:ALA:HB2	1:d:191:TYR:CE1	2.41	0.56
1:d:379:ARG:O	1:d:381:GLN:HG3	2.05	0.56
1:e:379:ARG:O	1:e:381:GLN:HG3	2.05	0.56
1:f:169:ALA:HB2	1:f:191:TYR:CE1	2.41	0.56
1:f:202:GLU:HB2	1:f:203:MET:HA	1.88	0.56
1:h:347:PRO:O	1:h:348:THR:OG1	2.22	0.56
1:k:169:ALA:HB2	1:k:191:TYR:CE1	2.41	0.56
1:k:182:PRO:C	1:k:184:GLN:H	2.14	0.56
1:n:169:ALA:HB2	1:n:191:TYR:CE1	2.41	0.56
1:u:169:ALA:HB2	1:u:191:TYR:CE1	2.41	0.56
1:u:379:ARG:O	1:u:381:GLN:HG3	2.05	0.56
1:v:379:ARG:O	1:v:381:GLN:HG3	2.05	0.56
1:w:62:GLN:HE21	1:w:469:THR:HG22	1.69	0.56
1:z:379:ARG:O	1:z:381:GLN:HG3	2.05	0.56
1:7:347:PRO:O	1:7:348:THR:OG1	2.23	0.56
1:8:344:SER:O	1:8:345:LEU:HB2	2.05	0.56
1:A:430:ASP:O	1:I:402:ASN:ND2	2.35	0.56
1:D:182:PRO:C	1:D:184:GLN:H	2.14	0.56
1:E:371:SER:HA	1:E:525:TRP:CE2	2.41	0.56
1:G:539:LEU:OXT	1:I:419:LYS:NZ	2.39	0.56
1:I:371:SER:HA	1:I:525:TRP:CE2	2.41	0.56
1:J:169:ALA:HB2	1:J:191:TYR:CE1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:121:ARG:HB3	1:R:246:TRP:CE3	2.41	0.56
1:T:121:ARG:HB3	1:T:246:TRP:CE3	2.41	0.56
1:V:169:ALA:HB2	1:V:191:TYR:CE1	2.41	0.56
1:Y:371:SER:HA	1:Y:525:TRP:CE2	2.41	0.56
1:2:121:ARG:HB3	1:2:246:TRP:CE3	2.41	0.56
1:3:169:ALA:HB2	1:3:191:TYR:CE1	2.41	0.56
1:3:182:PRO:C	1:3:184:GLN:H	2.14	0.56
1:a:169:ALA:HB2	1:a:191:TYR:CE1	2.41	0.56
1:b:169:ALA:HB2	1:b:191:TYR:CE1	2.41	0.56
1:b:371:SER:HA	1:b:525:TRP:CE2	2.41	0.56
1:f:206:SER:HB3	1:f:207:ASN:CA	2.36	0.56
1:g:66:LYS:NZ	1:m:456:SER:O	2.27	0.56
1:j:62:GLN:HE21	1:j:469:THR:HG22	1.69	0.56
1:j:202:GLU:HB2	1:j:203:MET:HA	1.88	0.56
1:l:344:SER:O	1:l:345:LEU:HB2	2.05	0.56
1:m:202:GLU:HB2	1:m:203:MET:HA	1.88	0.56
1:t:390:THR:HG22	1:t:391:TYR:H	1.69	0.56
1:u:371:SER:HA	1:u:525:TRP:CE2	2.41	0.56
1:x:121:ARG:HB3	1:x:246:TRP:CE3	2.41	0.56
1:y:344:SER:O	1:y:345:LEU:HB2	2.05	0.56
1:z:121:ARG:HB3	1:z:246:TRP:CE3	2.41	0.56
1:B:206:SER:HB3	1:B:207:ASN:CA	2.36	0.56
1:B:430:ASP:O	1:L:402:ASN:ND2	2.35	0.56
1:D:169:ALA:HB2	1:D:191:TYR:CE1	2.41	0.56
1:E:379:ARG:O	1:E:381:GLN:HG3	2.05	0.56
1:H:121:ARG:HB3	1:H:246:TRP:CE3	2.41	0.56
1:H:266:THR:HA	1:W:174:ASP:HA	1.88	0.56
1:J:66:LYS:NZ	1:1:456:SER:O	2.27	0.56
1:K:206:SER:HB3	1:K:207:ASN:CA	2.36	0.56
1:K:371:SER:HA	1:K:525:TRP:CE2	2.41	0.56
1:K:379:ARG:O	1:K:381:GLN:HG3	2.05	0.56
1:M:202:GLU:HB2	1:M:203:MET:HA	1.88	0.56
1:P:182:PRO:C	1:P:184:GLN:H	2.14	0.56
1:S:62:GLN:HE21	1:S:469:THR:HG22	1.69	0.56
1:S:379:ARG:O	1:S:381:GLN:HG3	2.05	0.56
1:T:370:ILE:HG22	1:T:371:SER:H	1.70	0.56
1:T:456:SER:O	1:c:66:LYS:NZ	2.26	0.56
1:U:344:SER:O	1:U:345:LEU:HB2	2.05	0.56
1:W:266:THR:HA	1:Y:174:ASP:HA	1.88	0.56
1:Y:206:SER:HB3	1:Y:207:ASN:CA	2.36	0.56
1:2:206:SER:HB3	1:2:207:ASN:CA	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:121:ARG:HB3	1:5:246:TRP:CE3	2.41	0.56
1:c:169:ALA:HB2	1:c:191:TYR:CE1	2.41	0.56
1:f:371:SER:HA	1:f:525:TRP:CE2	2.41	0.56
1:g:182:PRO:C	1:g:184:GLN:H	2.14	0.56
1:h:371:SER:HA	1:h:525:TRP:CE2	2.41	0.56
1:i:121:ARG:HB3	1:i:246:TRP:CE3	2.41	0.56
1:i:344:SER:O	1:i:345:LEU:HB2	2.05	0.56
1:l:121:ARG:HB3	1:l:246:TRP:CE3	2.41	0.56
1:m:390:THR:HG22	1:m:391:TYR:H	1.69	0.56
1:n:370:ILE:HG22	1:n:371:SER:H	1.70	0.56
1:o:169:ALA:HB2	1:o:191:TYR:CE1	2.41	0.56
1:o:371:SER:HA	1:o:525:TRP:CE2	2.41	0.56
1:p:169:ALA:HB2	1:p:191:TYR:CE1	2.41	0.56
1:p:182:PRO:C	1:p:184:GLN:H	2.14	0.56
1:q:371:SER:HA	1:q:525:TRP:CE2	2.41	0.56
1:r:121:ARG:HB3	1:r:246:TRP:CE3	2.41	0.56
1:s:202:GLU:HB2	1:s:203:MET:HA	1.88	0.56
1:v:169:ALA:HB2	1:v:191:TYR:CE1	2.41	0.56
1:w:174:ASP:HA	1:x:266:THR:HA	1.88	0.56
1:8:371:SER:HA	1:8:525:TRP:CE2	2.41	0.56
1:A:169:ALA:HB2	1:A:191:TYR:CE1	2.41	0.56
1:C:266:THR:HA	1:2:174:ASP:HA	1.88	0.56
1:C:371:SER:HA	1:C:525:TRP:CE2	2.41	0.56
1:E:121:ARG:HB3	1:E:246:TRP:CE3	2.41	0.56
1:E:370:ILE:HG22	1:E:371:SER:H	1.69	0.56
1:F:121:ARG:HB3	1:F:246:TRP:CE3	2.41	0.56
1:H:379:ARG:O	1:H:381:GLN:HG3	2.05	0.56
1:N:206:SER:HB3	1:N:207:ASN:CA	2.35	0.56
1:N:266:THR:HA	1:P:174:ASP:HA	1.88	0.56
1:N:370:ILE:HG22	1:N:371:SER:H	1.69	0.56
1:O:371:SER:HA	1:O:525:TRP:CE2	2.41	0.56
1:P:371:SER:HA	1:P:525:TRP:CE2	2.41	0.56
1:R:370:ILE:HG22	1:R:371:SER:H	1.69	0.56
1:T:390:THR:HG22	1:T:391:TYR:H	1.69	0.56
1:V:174:ASP:HA	1:X:266:THR:HA	1.88	0.56
1:V:206:SER:HB3	1:V:207:ASN:CA	2.36	0.56
1:4:371:SER:HA	1:4:525:TRP:CE2	2.41	0.56
1:f:379:ARG:O	1:f:381:GLN:HG3	2.05	0.56
1:j:390:THR:HG22	1:j:391:TYR:H	1.69	0.56
1:n:206:SER:HB3	1:n:207:ASN:CA	2.36	0.56
1:n:266:THR:HA	1:o:174:ASP:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:182:PRO:C	1:o:184:GLN:H	2.14	0.56
1:q:174:ASP:HA	1:s:266:THR:HA	1.88	0.56
1:q:266:THR:HA	1:r:174:ASP:HA	1.88	0.56
1:r:206:SER:HB3	1:r:207:ASN:CA	2.36	0.56
1:t:121:ARG:HB3	1:t:246:TRP:CE3	2.41	0.56
1:w:379:ARG:O	1:w:381:GLN:HG3	2.05	0.56
1:x:370:ILE:HG22	1:x:371:SER:H	1.70	0.56
1:z:182:PRO:C	1:z:184:GLN:H	2.14	0.56
1:7:344:SER:O	1:7:345:LEU:HB2	2.05	0.56
1:7:371:SER:HA	1:7:525:TRP:CE2	2.41	0.56
1:B:174:ASP:HA	1:L:266:THR:HA	1.88	0.56
1:J:202:GLU:HB2	1:J:203:MET:HA	1.88	0.56
1:O:174:ASP:HA	1:h:266:THR:HA	1.88	0.56
1:P:169:ALA:HB2	1:P:191:TYR:CE1	2.41	0.56
1:R:266:THR:HA	1:S:174:ASP:HA	1.88	0.56
1:S:266:THR:HA	1:U:174:ASP:HA	1.88	0.56
1:Z:344:SER:O	1:Z:345:LEU:HB2	2.05	0.56
1:1:379:ARG:O	1:1:381:GLN:HG3	2.05	0.56
1:1:390:THR:HG22	1:1:391:TYR:H	1.69	0.56
1:3:379:ARG:O	1:3:381:GLN:HG3	2.05	0.56
1:a:206:SER:HB3	1:a:207:ASN:CA	2.36	0.56
1:e:206:SER:HB3	1:e:207:ASN:CA	2.36	0.56
1:e:371:SER:HA	1:e:525:TRP:CE2	2.41	0.56
1:h:206:SER:HB3	1:h:207:ASN:CA	2.36	0.56
1:k:202:GLU:HB2	1:k:203:MET:HA	1.88	0.56
1:m:62:GLN:HE21	1:m:469:THR:HG22	1.69	0.56
1:u:121:ARG:HB3	1:u:246:TRP:CE3	2.41	0.56
1:y:371:SER:HA	1:y:525:TRP:CE2	2.41	0.56
1:7:202:GLU:HB2	1:7:203:MET:HA	1.88	0.56
1:8:62:GLN:HE21	1:8:469:THR:HG22	1.69	0.56
1:A:206:SER:HB3	1:A:207:ASN:CA	2.36	0.55
1:B:371:SER:HA	1:B:525:TRP:CE2	2.41	0.55
1:C:174:ASP:HA	1:M:266:THR:HA	1.88	0.55
1:C:202:GLU:HB2	1:C:203:MET:HA	1.88	0.55
1:D:174:ASP:HA	1:P:266:THR:HA	1.88	0.55
1:D:266:THR:HA	1:N:174:ASP:HA	1.88	0.55
1:D:344:SER:O	1:D:345:LEU:HB2	2.05	0.55
1:F:371:SER:HA	1:F:525:TRP:CE2	2.41	0.55
1:G:268:ARG:HH21	1:I:173:TRP:CD1	2.23	0.55
1:K:182:PRO:C	1:K:184:GLN:H	2.14	0.55
1:T:379:ARG:O	1:T:381:GLN:HG3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:121:ARG:HB3	1:U:246:TRP:CE3	2.41	0.55
1:X:174:ASP:HA	1:5:266:THR:HA	1.88	0.55
1:Z:121:ARG:HB3	1:Z:246:TRP:CE3	2.41	0.55
1:Z:174:ASP:HA	1:w:266:THR:HA	1.88	0.55
1:3:202:GLU:HB2	1:3:203:MET:HA	1.88	0.55
1:5:379:ARG:O	1:5:381:GLN:HG3	2.05	0.55
1:d:266:THR:HA	1:e:174:ASP:HA	1.88	0.55
1:d:402:ASN:ND2	1:e:430:ASP:O	2.35	0.55
1:p:344:SER:O	1:p:345:LEU:HB2	2.05	0.55
1:q:202:GLU:HB2	1:q:203:MET:HA	1.88	0.55
1:r:344:SER:O	1:r:345:LEU:HB2	2.05	0.55
1:t:202:GLU:HB2	1:t:203:MET:HA	1.88	0.55
1:w:206:SER:HB3	1:w:207:ASN:CA	2.36	0.55
1:y:174:ASP:HA	1:7:266:THR:HA	1.88	0.55
1:z:206:SER:HB3	1:z:207:ASN:CA	2.36	0.55
1:A:344:SER:O	1:A:345:LEU:HB2	2.05	0.55
1:C:169:ALA:HB2	1:C:191:TYR:CE1	2.41	0.55
1:F:202:GLU:HB2	1:F:203:MET:HA	1.88	0.55
1:K:525:TRP:CE3	1:K:530:PRO:HG3	2.42	0.55
1:M:169:ALA:HB2	1:M:191:TYR:CE1	2.41	0.55
1:Q:344:SER:O	1:Q:345:LEU:HB2	2.05	0.55
1:R:202:GLU:HB2	1:R:203:MET:HA	1.88	0.55
1:S:206:SER:HB3	1:S:207:ASN:CA	2.36	0.55
1:U:182:PRO:C	1:U:184:GLN:H	2.14	0.55
1:X:456:SER:O	1:6:66:LYS:NZ	2.27	0.55
1:X:525:TRP:CE3	1:X:530:PRO:HG3	2.42	0.55
1:4:62:GLN:HE21	1:4:469:THR:HG22	1.69	0.55
1:6:371:SER:HA	1:6:525:TRP:CE2	2.41	0.55
1:a:344:SER:O	1:a:345:LEU:HB2	2.05	0.55
1:f:182:PRO:C	1:f:184:GLN:H	2.14	0.55
1:f:525:TRP:CE3	1:f:530:PRO:HG3	2.42	0.55
1:g:206:SER:HB3	1:g:207:ASN:CA	2.36	0.55
1:j:456:SER:O	1:z:66:LYS:NZ	2.27	0.55
1:k:121:ARG:HB3	1:k:246:TRP:CE3	2.41	0.55
1:k:379:ARG:O	1:k:381:GLN:HG3	2.05	0.55
1:n:174:ASP:HA	1:p:266:THR:HA	1.88	0.55
1:n:371:SER:HA	1:n:525:TRP:CE2	2.41	0.55
1:n:430:ASP:O	1:p:402:ASN:ND2	2.35	0.55
1:o:266:THR:HA	1:p:174:ASP:HA	1.88	0.55
1:s:169:ALA:HB2	1:s:191:TYR:CE1	2.41	0.55
1:u:370:ILE:HG22	1:u:371:SER:H	1.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:344:SER:O	1:v:345:LEU:HB2	2.05	0.55
1:x:202:GLU:HB2	1:x:203:MET:HA	1.88	0.55
1:B:266:THR:HA	1:J:174:ASP:HA	1.88	0.55
1:O:266:THR:HA	1:g:174:ASP:HA	1.87	0.55
1:Q:182:PRO:C	1:Q:184:GLN:H	2.14	0.55
1:S:169:ALA:HB2	1:S:191:TYR:CE1	2.41	0.55
1:T:182:PRO:C	1:T:184:GLN:H	2.14	0.55
1:W:525:TRP:CE3	1:W:530:PRO:HG3	2.42	0.55
1:X:379:ARG:O	1:X:381:GLN:HG3	2.05	0.55
1:2:202:GLU:HB2	1:2:203:MET:HA	1.88	0.55
1:2:344:SER:O	1:2:345:LEU:HB2	2.05	0.55
1:3:121:ARG:HB3	1:3:246:TRP:CE3	2.41	0.55
1:c:202:GLU:HB2	1:c:203:MET:HA	1.88	0.55
1:e:169:ALA:HB2	1:e:191:TYR:CE1	2.40	0.55
1:g:266:THR:HA	1:h:174:ASP:HA	1.88	0.55
1:g:371:SER:HA	1:g:525:TRP:CE2	2.41	0.55
1:h:202:GLU:HB2	1:h:203:MET:HA	1.88	0.55
1:o:206:SER:HB3	1:o:207:ASN:CA	2.36	0.55
1:p:379:ARG:O	1:p:381:GLN:HG3	2.05	0.55
1:q:121:ARG:HB3	1:q:246:TRP:CE3	2.41	0.55
1:t:266:THR:HA	1:u:174:ASP:HA	1.88	0.55
1:t:371:SER:HA	1:t:525:TRP:CE2	2.41	0.55
1:v:182:PRO:C	1:v:184:GLN:H	2.14	0.55
1:7:206:SER:HB3	1:7:207:ASN:CA	2.36	0.55
1:A:121:ARG:HB3	1:A:246:TRP:CE3	2.41	0.55
1:B:525:TRP:CE3	1:B:530:PRO:HG3	2.42	0.55
1:C:121:ARG:HB3	1:C:246:TRP:CE3	2.41	0.55
1:G:371:SER:HA	1:G:525:TRP:CE2	2.41	0.55
1:H:182:PRO:C	1:H:184:GLN:H	2.14	0.55
1:H:525:TRP:CE3	1:H:530:PRO:HG3	2.42	0.55
1:M:525:TRP:CE3	1:M:530:PRO:HG3	2.42	0.55
1:V:344:SER:O	1:V:345:LEU:HB2	2.05	0.55
1:Y:344:SER:O	1:Y:345:LEU:HB2	2.05	0.55
1:Z:202:GLU:HB2	1:Z:203:MET:HA	1.88	0.55
1:1:182:PRO:C	1:1:184:GLN:H	2.14	0.55
1:1:525:TRP:CE3	1:1:530:PRO:HG3	2.42	0.55
1:3:402:ASN:ND2	1:i:430:ASP:O	2.35	0.55
1:5:182:PRO:C	1:5:184:GLN:H	2.14	0.55
1:5:525:TRP:CE3	1:5:530:PRO:HG3	2.42	0.55
1:6:363:THR:OG1	1:6:366:ASP:O	2.14	0.55
1:a:121:ARG:HB3	1:a:246:TRP:CE3	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:182:PRO:C	1:c:184:GLN:H	2.14	0.55
1:e:121:ARG:HB3	1:e:246:TRP:CE3	2.41	0.55
1:e:525:TRP:CE3	1:e:530:PRO:HG3	2.42	0.55
1:h:121:ARG:HB3	1:h:246:TRP:CE3	2.41	0.55
1:h:344:SER:O	1:h:345:LEU:HB2	2.05	0.55
1:n:182:PRO:C	1:n:184:GLN:H	2.14	0.55
1:r:202:GLU:HB2	1:r:203:MET:HA	1.88	0.55
1:w:169:ALA:HB2	1:w:191:TYR:CE1	2.41	0.55
1:w:525:TRP:CE3	1:w:530:PRO:HG3	2.42	0.55
1:y:202:GLU:HB2	1:y:203:MET:HA	1.88	0.55
1:z:266:THR:HA	1:7:174:ASP:HA	1.88	0.55
1:7:121:ARG:HB3	1:7:246:TRP:CE3	2.41	0.55
1:A:202:GLU:HB2	1:A:203:MET:HA	1.88	0.55
1:A:525:TRP:CE3	1:A:530:PRO:HG3	2.42	0.55
1:B:121:ARG:HB3	1:B:246:TRP:CE3	2.41	0.55
1:B:169:ALA:HB2	1:B:191:TYR:CE1	2.40	0.55
1:D:371:SER:HA	1:D:525:TRP:CE2	2.41	0.55
1:D:379:ARG:O	1:D:381:GLN:HG3	2.05	0.55
1:D:402:ASN:ND2	1:N:430:ASP:O	2.35	0.55
1:D:525:TRP:CE3	1:D:530:PRO:HG3	2.42	0.55
1:E:174:ASP:HA	1:F:266:THR:HA	1.88	0.55
1:H:202:GLU:HB2	1:H:203:MET:HA	1.88	0.55
1:K:121:ARG:HB3	1:K:246:TRP:CE3	2.41	0.55
1:K:266:THR:HA	1:1:174:ASP:HA	1.88	0.55
1:L:516:ASN:OD1	1:L:517:GLY:N	2.32	0.55
1:N:182:PRO:C	1:N:184:GLN:H	2.14	0.55
1:N:371:SER:HA	1:N:525:TRP:CE2	2.41	0.55
1:O:202:GLU:HB2	1:O:203:MET:HA	1.88	0.55
1:S:525:TRP:CE3	1:S:530:PRO:HG3	2.42	0.55
1:T:525:TRP:CE3	1:T:530:PRO:HG3	2.42	0.55
1:U:202:GLU:HB2	1:U:203:MET:HA	1.88	0.55
1:U:525:TRP:CE3	1:U:530:PRO:HG3	2.42	0.55
1:W:379:ARG:O	1:W:381:GLN:HG3	2.05	0.55
1:Z:182:PRO:C	1:Z:184:GLN:H	2.14	0.55
1:Z:525:TRP:CE3	1:Z:530:PRO:HG3	2.42	0.55
1:3:174:ASP:HA	1:j:266:THR:HA	1.88	0.55
1:a:202:GLU:HB2	1:a:203:MET:HA	1.88	0.55
1:a:525:TRP:CE3	1:a:530:PRO:HG3	2.42	0.55
1:b:525:TRP:CE3	1:b:530:PRO:HG3	2.42	0.55
1:c:174:ASP:HA	1:e:266:THR:HA	1.88	0.55
1:j:169:ALA:HB2	1:j:191:TYR:CE1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:525:TRP:CE3	1:j:530:PRO:HG3	2.42	0.55
1:k:174:ASP:HA	1:m:266:THR:HA	1.88	0.55
1:m:371:SER:HA	1:m:525:TRP:CE2	2.41	0.55
1:m:525:TRP:CE3	1:m:530:PRO:HG3	2.42	0.55
1:p:371:SER:HA	1:p:525:TRP:CE2	2.41	0.55
1:p:525:TRP:CE3	1:p:530:PRO:HG3	2.42	0.55
1:q:169:ALA:HB2	1:q:191:TYR:CE1	2.41	0.55
1:r:371:SER:HA	1:r:525:TRP:CE2	2.41	0.55
1:s:525:TRP:CE3	1:s:530:PRO:HG3	2.42	0.55
1:x:525:TRP:CE3	1:x:530:PRO:HG3	2.42	0.55
1:z:371:SER:HA	1:z:525:TRP:CE2	2.41	0.55
1:7:525:TRP:CE3	1:7:530:PRO:HG3	2.42	0.55
1:F:182:PRO:C	1:F:184:GLN:H	2.14	0.55
1:I:525:TRP:CE3	1:I:530:PRO:HG3	2.42	0.55
1:J:182:PRO:C	1:J:184:GLN:H	2.14	0.55
1:K:174:ASP:HA	1:8:266:THR:HA	1.88	0.55
1:P:206:SER:HB3	1:P:207:ASN:CA	2.36	0.55
1:R:525:TRP:CE3	1:R:530:PRO:HG3	2.42	0.55
1:S:121:ARG:HB3	1:S:246:TRP:CE3	2.41	0.55
1:S:371:SER:HA	1:S:525:TRP:CE2	2.41	0.55
1:T:174:ASP:HA	1:f:266:THR:HA	1.88	0.55
1:W:244:CYS:SG	1:W:436:ILE:HG21	2.47	0.55
1:X:244:CYS:SG	1:X:436:ILE:HG21	2.47	0.55
1:Y:182:PRO:C	1:Y:184:GLN:H	2.14	0.55
1:2:371:SER:HA	1:2:525:TRP:CE2	2.41	0.55
1:f:121:ARG:HB3	1:f:246:TRP:CE3	2.41	0.55
1:j:371:SER:HA	1:j:525:TRP:CE2	2.41	0.55
1:k:371:SER:HA	1:k:525:TRP:CE2	2.41	0.55
1:k:402:ASN:ND2	1:l:430:ASP:O	2.36	0.55
1:m:169:ALA:HB2	1:m:191:TYR:CE1	2.41	0.55
1:m:206:SER:HB3	1:m:207:ASN:CA	2.36	0.55
1:r:266:THR:HA	1:s:174:ASP:HA	1.88	0.55
1:t:182:PRO:C	1:t:184:GLN:H	2.14	0.55
1:w:371:SER:HA	1:w:525:TRP:CE2	2.41	0.55
1:K:344:SER:O	1:K:345:LEU:HB2	2.05	0.55
1:M:174:ASP:HA	1:2:266:THR:HA	1.88	0.55
1:M:430:ASP:O	1:2:402:ASN:ND2	2.35	0.55
1:O:182:PRO:C	1:O:184:GLN:H	2.14	0.55
1:O:244:CYS:SG	1:O:245:GLU:N	2.79	0.55
1:Q:244:CYS:SG	1:Q:436:ILE:HG21	2.47	0.55
1:R:244:CYS:SG	1:R:436:ILE:HG21	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:182:PRO:C	1:S:184:GLN:H	2.14	0.55
1:W:206:SER:HB3	1:W:207:ASN:CA	2.36	0.55
1:X:206:SER:HB3	1:X:207:ASN:CA	2.36	0.55
1:1:202:GLU:HB2	1:1:203:MET:HA	1.88	0.55
1:1:266:THR:HA	1:8:174:ASP:HA	1.88	0.55
1:3:371:SER:HA	1:3:525:TRP:CE2	2.41	0.55
1:5:344:SER:O	1:5:345:LEU:HB2	2.05	0.55
1:d:516:ASN:OD1	1:d:517:GLY:N	2.32	0.55
1:h:525:TRP:CE3	1:h:530:PRO:HG3	2.42	0.55
1:j:206:SER:HB3	1:j:207:ASN:CA	2.36	0.55
1:n:525:TRP:CE3	1:n:530:PRO:HG3	2.42	0.55
1:v:244:CYS:SG	1:v:436:ILE:HG21	2.47	0.55
1:w:344:SER:O	1:w:345:LEU:HB2	2.05	0.55
1:y:244:CYS:SG	1:y:245:GLU:N	2.79	0.55
1:F:525:TRP:CE3	1:F:530:PRO:HG3	2.42	0.55
1:G:206:SER:HB3	1:G:207:ASN:CA	2.36	0.55
1:G:244:CYS:SG	1:G:436:ILE:HG21	2.47	0.55
1:G:363:THR:OG1	1:G:366:ASP:O	2.14	0.55
1:G:525:TRP:CE3	1:G:530:PRO:HG3	2.42	0.55
1:H:344:SER:O	1:H:345:LEU:HB2	2.05	0.55
1:L:202:GLU:HB2	1:L:203:MET:HA	1.88	0.55
1:L:244:CYS:SG	1:L:436:ILE:HG21	2.47	0.55
1:P:244:CYS:SG	1:P:436:ILE:HG21	2.47	0.55
1:T:266:THR:HA	1:4:174:ASP:HA	1.88	0.55
1:U:206:SER:HB3	1:U:207:ASN:CA	2.36	0.55
1:V:182:PRO:C	1:V:184:GLN:H	2.14	0.55
1:4:121:ARG:HB3	1:4:246:TRP:CE3	2.41	0.55
1:4:266:THR:HA	1:f:174:ASP:HA	1.88	0.55
1:4:525:TRP:CE3	1:4:530:PRO:HG3	2.42	0.55
1:d:244:CYS:SG	1:d:436:ILE:HG21	2.47	0.55
1:f:344:SER:O	1:f:345:LEU:HB2	2.05	0.55
1:h:244:CYS:SG	1:h:436:ILE:HG21	2.47	0.55
1:i:244:CYS:SG	1:i:436:ILE:HG21	2.47	0.55
1:j:244:CYS:SG	1:j:436:ILE:HG21	2.47	0.55
1:l:244:CYS:SG	1:l:436:ILE:HG21	2.47	0.55
1:n:344:SER:O	1:n:345:LEU:HB2	2.05	0.55
1:o:244:CYS:SG	1:o:436:ILE:HG21	2.47	0.55
1:w:121:ARG:HB3	1:w:246:TRP:CE3	2.41	0.55
1:x:244:CYS:SG	1:x:436:ILE:HG21	2.47	0.55
1:y:182:PRO:C	1:y:184:GLN:H	2.14	0.55
1:7:244:CYS:SG	1:7:436:ILE:HG21	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:525:TRP:CE3	1:8:530:PRO:HG3	2.42	0.55
1:C:525:TRP:CE3	1:C:530:PRO:HG3	2.42	0.55
1:E:266:THR:HA	1:Q:174:ASP:HA	1.88	0.55
1:G:182:PRO:C	1:G:184:GLN:H	2.14	0.55
1:L:525:TRP:CE3	1:L:530:PRO:HG3	2.42	0.55
1:N:525:TRP:CE3	1:N:530:PRO:HG3	2.42	0.55
1:O:347:PRO:O	1:O:348:THR:OG1	2.23	0.55
1:S:244:CYS:SG	1:S:436:ILE:HG21	2.47	0.55
1:2:244:CYS:SG	1:2:245:GLU:N	2.79	0.55
1:2:525:TRP:CE3	1:2:530:PRO:HG3	2.42	0.55
1:5:202:GLU:HB2	1:5:203:MET:HA	1.88	0.55
1:6:182:PRO:C	1:6:184:GLN:H	2.14	0.55
1:6:244:CYS:SG	1:6:436:ILE:HG21	2.47	0.55
1:d:206:SER:HB3	1:d:207:ASN:CA	2.36	0.55
1:e:244:CYS:SG	1:e:436:ILE:HG21	2.47	0.55
1:g:169:ALA:HB2	1:g:191:TYR:CE1	2.41	0.55
1:m:244:CYS:SG	1:m:436:ILE:HG21	2.47	0.55
1:r:244:CYS:SG	1:r:245:GLU:N	2.79	0.55
1:r:525:TRP:CE3	1:r:530:PRO:HG3	2.42	0.55
1:u:202:GLU:HB2	1:u:203:MET:HA	1.88	0.55
1:w:182:PRO:C	1:w:184:GLN:H	2.14	0.55
1:w:244:CYS:SG	1:w:436:ILE:HG21	2.47	0.55
1:z:169:ALA:HB2	1:z:191:TYR:CE1	2.41	0.55
1:8:121:ARG:HB3	1:8:246:TRP:CE3	2.41	0.55
1:B:244:CYS:SG	1:B:436:ILE:HG21	2.47	0.55
1:C:344:SER:O	1:C:345:LEU:HB2	2.05	0.55
1:C:430:ASP:O	1:M:402:ASN:ND2	2.35	0.55
1:H:244:CYS:SG	1:H:436:ILE:HG21	2.47	0.55
1:I:344:SER:O	1:I:345:LEU:HB2	2.05	0.55
1:L:182:PRO:C	1:L:184:GLN:H	2.14	0.55
1:N:344:SER:O	1:N:345:LEU:HB2	2.05	0.55
1:T:202:GLU:HB2	1:T:203:MET:HA	1.88	0.55
1:Y:347:PRO:O	1:Y:348:THR:OG1	2.23	0.55
1:Z:206:SER:HB3	1:Z:207:ASN:CA	2.36	0.55
1:6:206:SER:HB3	1:6:207:ASN:CA	2.36	0.55
1:6:525:TRP:CE3	1:6:530:PRO:HG3	2.42	0.55
1:d:182:PRO:C	1:d:184:GLN:H	2.14	0.55
1:d:244:CYS:SG	1:d:245:GLU:N	2.79	0.55
1:d:525:TRP:CE3	1:d:530:PRO:HG3	2.42	0.55
1:i:266:THR:HA	1:j:174:ASP:HA	1.88	0.55
1:k:525:TRP:CE3	1:k:530:PRO:HG3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:127:MET:HG3	1:s:476:ILE:HG22	1.89	0.55
1:s:244:CYS:SG	1:s:436:ILE:HG21	2.47	0.55
1:t:525:TRP:CE3	1:t:530:PRO:HG3	2.42	0.55
1:u:301:LEU:HD11	1:u:345:LEU:HB3	1.90	0.55
1:u:347:PRO:O	1:u:348:THR:OG1	2.22	0.55
1:A:174:ASP:HA	1:I:266:THR:HA	1.88	0.54
1:D:244:CYS:SG	1:D:436:ILE:HG21	2.47	0.54
1:E:301:LEU:HD11	1:E:345:LEU:HB3	1.90	0.54
1:L:206:SER:HB3	1:L:207:ASN:CA	2.36	0.54
1:P:202:GLU:HB2	1:P:203:MET:HA	1.88	0.54
1:S:344:SER:O	1:S:345:LEU:HB2	2.05	0.54
1:3:525:TRP:CE3	1:3:530:PRO:HG3	2.42	0.54
1:5:244:CYS:SG	1:5:436:ILE:HG21	2.47	0.54
1:6:266:THR:HA	1:b:174:ASP:HA	1.88	0.54
1:d:202:GLU:HB2	1:d:203:MET:HA	1.88	0.54
1:l:266:THR:HA	1:m:174:ASP:HA	1.88	0.54
1:p:244:CYS:SG	1:p:436:ILE:HG21	2.47	0.54
1:p:301:LEU:HD11	1:p:345:LEU:HB3	1.90	0.54
1:q:525:TRP:CE3	1:q:530:PRO:HG3	2.42	0.54
1:r:402:ASN:ND2	1:s:430:ASP:O	2.35	0.54
1:u:266:THR:HA	1:v:174:ASP:HA	1.88	0.54
1:y:347:PRO:O	1:y:348:THR:OG1	2.22	0.54
1:D:301:LEU:HD11	1:D:345:LEU:HB3	1.90	0.54
1:E:202:GLU:HB2	1:E:203:MET:HA	1.88	0.54
1:E:244:CYS:SG	1:E:436:ILE:HG21	2.47	0.54
1:E:402:ASN:ND2	1:Q:430:ASP:O	2.35	0.54
1:F:244:CYS:SG	1:F:436:ILE:HG21	2.47	0.54
1:H:301:LEU:HD11	1:H:345:LEU:HB3	1.89	0.54
1:I:206:SER:HB3	1:I:207:ASN:CA	2.36	0.54
1:L:244:CYS:SG	1:L:245:GLU:N	2.79	0.54
1:M:127:MET:HG3	1:M:476:ILE:HG22	1.90	0.54
1:M:244:CYS:SG	1:M:436:ILE:HG21	2.47	0.54
1:P:525:TRP:CE3	1:P:530:PRO:HG3	2.42	0.54
1:V:347:PRO:O	1:V:348:THR:OG1	2.23	0.54
1:Z:266:THR:HA	1:x:174:ASP:HA	1.88	0.54
1:4:90:CYS:SG	1:4:91:VAL:N	2.79	0.54
1:5:301:LEU:HD11	1:5:345:LEU:HB3	1.90	0.54
1:b:206:SER:HB3	1:b:207:ASN:CA	2.36	0.54
1:b:344:SER:O	1:b:345:LEU:HB2	2.05	0.54
1:h:127:MET:HG3	1:h:476:ILE:HG22	1.90	0.54
1:j:127:MET:HG3	1:j:476:ILE:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:244:CYS:SG	1:q:436:ILE:HG21	2.47	0.54
1:q:344:SER:O	1:q:345:LEU:HB2	2.05	0.54
1:t:244:CYS:SG	1:t:436:ILE:HG21	2.47	0.54
1:u:402:ASN:ND2	1:v:430:ASP:O	2.35	0.54
1:C:244:CYS:SG	1:C:436:ILE:HG21	2.47	0.54
1:D:206:SER:HB3	1:D:207:ASN:CA	2.36	0.54
1:E:525:TRP:CE3	1:E:530:PRO:HG3	2.42	0.54
1:K:244:CYS:SG	1:K:436:ILE:HG21	2.47	0.54
1:N:244:CYS:SG	1:N:436:ILE:HG21	2.47	0.54
1:R:174:ASP:HA	1:U:266:THR:HA	1.88	0.54
1:V:525:TRP:CE3	1:V:530:PRO:HG3	2.42	0.54
1:c:206:SER:HB3	1:c:207:ASN:CA	2.36	0.54
1:f:127:MET:HG3	1:f:476:ILE:HG22	1.90	0.54
1:h:301:LEU:HD11	1:h:345:LEU:HB3	1.89	0.54
1:i:127:MET:HG3	1:i:476:ILE:HG22	1.90	0.54
1:i:301:LEU:HD11	1:i:345:LEU:HB3	1.90	0.54
1:l:127:MET:HG3	1:l:476:ILE:HG22	1.90	0.54
1:o:202:GLU:HB2	1:o:203:MET:HA	1.88	0.54
1:p:206:SER:HB3	1:p:207:ASN:CA	2.36	0.54
1:q:127:MET:HG3	1:q:476:ILE:HG22	1.89	0.54
1:q:430:ASP:O	1:s:402:ASN:ND2	2.35	0.54
1:t:127:MET:HG3	1:t:476:ILE:HG22	1.89	0.54
1:u:244:CYS:SG	1:u:436:ILE:HG21	2.47	0.54
1:y:266:THR:HA	1:z:174:ASP:HA	1.88	0.54
1:7:127:MET:HG3	1:7:476:ILE:HG22	1.90	0.54
1:C:127:MET:HG3	1:C:476:ILE:HG22	1.90	0.54
1:E:347:PRO:O	1:E:348:THR:OG1	2.23	0.54
1:F:127:MET:HG3	1:F:476:ILE:HG22	1.90	0.54
1:H:174:ASP:HA	1:Y:266:THR:HA	1.89	0.54
1:H:206:SER:HB3	1:H:207:ASN:CA	2.36	0.54
1:I:244:CYS:SG	1:I:436:ILE:HG21	2.47	0.54
1:K:127:MET:HG3	1:K:476:ILE:HG22	1.90	0.54
1:O:525:TRP:CE3	1:O:530:PRO:HG3	2.42	0.54
1:V:266:THR:HA	1:5:174:ASP:HA	1.88	0.54
1:Y:525:TRP:CE3	1:Y:530:PRO:HG3	2.42	0.54
1:1:127:MET:HG3	1:1:476:ILE:HG22	1.89	0.54
1:2:127:MET:HG3	1:2:476:ILE:HG22	1.90	0.54
1:2:244:CYS:SG	1:2:436:ILE:HG21	2.47	0.54
1:3:244:CYS:SG	1:3:436:ILE:HG21	2.47	0.54
1:a:174:ASP:HA	1:b:266:THR:HA	1.88	0.54
1:b:244:CYS:SG	1:b:436:ILE:HG21	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:266:THR:HA	1:d:174:ASP:HA	1.88	0.54
1:f:244:CYS:SG	1:f:436:ILE:HG21	2.47	0.54
1:g:244:CYS:SG	1:g:245:GLU:N	2.79	0.54
1:k:244:CYS:SG	1:k:436:ILE:HG21	2.47	0.54
1:l:202:GLU:HB2	1:l:203:MET:HA	1.88	0.54
1:l:301:LEU:HD11	1:l:345:LEU:HB3	1.90	0.54
1:o:525:TRP:CE3	1:o:530:PRO:HG3	2.42	0.54
1:r:127:MET:HG3	1:r:476:ILE:HG22	1.90	0.54
1:r:244:CYS:SG	1:r:436:ILE:HG21	2.47	0.54
1:A:244:CYS:SG	1:A:436:ILE:HG21	2.47	0.54
1:G:127:MET:HG3	1:G:476:ILE:HG22	1.89	0.54
1:G:406:ASP:HA	1:I:424:ASP:HB2	1.87	0.54
1:J:206:SER:HB3	1:J:207:ASN:CA	2.36	0.54
1:K:244:CYS:SG	1:K:245:GLU:N	2.79	0.54
1:O:244:CYS:SG	1:O:436:ILE:HG21	2.47	0.54
1:R:206:SER:HB3	1:R:207:ASN:CA	2.36	0.54
1:T:127:MET:HG3	1:T:476:ILE:HG22	1.90	0.54
1:T:244:CYS:SG	1:T:436:ILE:HG21	2.47	0.54
1:U:301:LEU:HD11	1:U:345:LEU:HB3	1.90	0.54
1:V:244:CYS:SG	1:V:436:ILE:HG21	2.47	0.54
1:Z:301:LEU:HD11	1:Z:345:LEU:HB3	1.90	0.54
1:1:244:CYS:SG	1:1:436:ILE:HG21	2.47	0.54
1:3:127:MET:HG3	1:3:476:ILE:HG22	1.90	0.54
1:5:206:SER:HB3	1:5:207:ASN:CA	2.36	0.54
1:a:244:CYS:SG	1:a:436:ILE:HG21	2.47	0.54
1:k:127:MET:HG3	1:k:476:ILE:HG22	1.90	0.54
1:l:182:PRO:C	1:l:184:GLN:H	2.14	0.54
1:m:127:MET:HG3	1:m:476:ILE:HG22	1.90	0.54
1:n:244:CYS:SG	1:n:436:ILE:HG21	2.47	0.54
1:u:525:TRP:CE3	1:u:530:PRO:HG3	2.42	0.54
1:x:206:SER:HB3	1:x:207:ASN:CA	2.36	0.54
1:y:525:TRP:CE3	1:y:530:PRO:HG3	2.42	0.54
1:z:244:CYS:SG	1:z:245:GLU:N	2.79	0.54
1:7:301:LEU:HD11	1:7:345:LEU:HB3	1.90	0.54
1:J:266:THR:HA	1:L:174:ASP:HA	1.88	0.54
1:N:90:CYS:SG	1:N:91:VAL:N	2.79	0.54
1:Q:127:MET:HG3	1:Q:476:ILE:HG22	1.90	0.54
1:U:347:PRO:O	1:U:348:THR:OG1	2.23	0.54
1:1:402:ASN:ND2	1:8:430:ASP:O	2.35	0.54
1:4:127:MET:HG3	1:4:476:ILE:HG22	1.89	0.54
1:g:244:CYS:SG	1:g:436:ILE:HG21	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:202:GLU:HB2	1:i:203:MET:HA	1.88	0.54
1:n:90:CYS:SG	1:n:91:VAL:N	2.79	0.54
1:y:244:CYS:SG	1:y:436:ILE:HG21	2.47	0.54
1:8:127:MET:HG3	1:8:476:ILE:HG22	1.90	0.54
1:G:495:THR:O	1:H:492:ARG:HA	2.08	0.54
1:H:90:CYS:SG	1:H:91:VAL:N	2.79	0.54
1:H:127:MET:HG3	1:H:476:ILE:HG22	1.89	0.54
1:R:127:MET:HG3	1:R:476:ILE:HG22	1.89	0.54
1:T:244:CYS:SG	1:T:245:GLU:N	2.79	0.54
1:W:301:LEU:HD11	1:W:345:LEU:HB3	1.90	0.54
1:Y:244:CYS:SG	1:Y:436:ILE:HG21	2.47	0.54
1:6:127:MET:HG3	1:6:476:ILE:HG22	1.90	0.54
1:c:525:TRP:CE3	1:c:530:PRO:HG3	2.42	0.54
1:l:525:TRP:CE3	1:l:530:PRO:HG3	2.42	0.54
1:z:244:CYS:SG	1:z:436:ILE:HG21	2.47	0.54
1:z:525:TRP:CE3	1:z:530:PRO:HG3	2.42	0.54
1:B:301:LEU:HD11	1:B:345:LEU:HB3	1.90	0.54
1:J:127:MET:HG3	1:J:476:ILE:HG22	1.90	0.54
1:J:301:LEU:HD11	1:J:345:LEU:HB3	1.89	0.54
1:J:525:TRP:CE3	1:J:530:PRO:HG3	2.42	0.54
1:K:301:LEU:HD11	1:K:345:LEU:HB3	1.90	0.54
1:T:301:LEU:HD11	1:T:345:LEU:HB3	1.90	0.54
1:X:90:CYS:SG	1:X:91:VAL:N	2.79	0.54
1:X:301:LEU:HD11	1:X:345:LEU:HB3	1.90	0.54
1:Z:347:PRO:O	1:Z:348:THR:OG1	2.23	0.54
1:4:244:CYS:SG	1:4:436:ILE:HG21	2.47	0.54
1:5:127:MET:HG3	1:5:476:ILE:HG22	1.90	0.54
1:b:301:LEU:HD11	1:b:345:LEU:HB3	1.90	0.54
1:c:127:MET:HG3	1:c:476:ILE:HG22	1.90	0.54
1:e:90:CYS:SG	1:e:91:VAL:N	2.79	0.54
1:f:301:LEU:HD11	1:f:345:LEU:HB3	1.89	0.54
1:g:127:MET:HG3	1:g:476:ILE:HG22	1.90	0.54
1:v:127:MET:HG3	1:v:476:ILE:HG22	1.90	0.54
1:w:90:CYS:SG	1:w:91:VAL:N	2.79	0.54
1:z:127:MET:HG3	1:z:476:ILE:HG22	1.90	0.54
1:z:301:LEU:HD11	1:z:345:LEU:HB3	1.90	0.54
1:C:301:LEU:HD11	1:C:345:LEU:HB3	1.90	0.54
1:F:316:TRP:O	1:F:337:GLY:HA2	2.08	0.54
1:G:347:PRO:O	1:G:348:THR:OG1	2.22	0.54
1:I:301:LEU:HD11	1:I:345:LEU:HB3	1.90	0.54
1:L:301:LEU:HD11	1:L:345:LEU:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:316:TRP:O	1:P:337:GLY:HA2	2.08	0.54
1:Q:525:TRP:CE3	1:Q:530:PRO:HG3	2.42	0.54
1:R:301:LEU:HD11	1:R:345:LEU:HB3	1.90	0.54
1:T:402:ASN:ND2	1:4:430:ASP:O	2.35	0.54
1:1:301:LEU:HD11	1:1:345:LEU:HB3	1.90	0.54
1:2:301:LEU:HD11	1:2:345:LEU:HB3	1.90	0.54
1:3:347:PRO:O	1:3:348:THR:OG1	2.23	0.54
1:a:301:LEU:HD11	1:a:345:LEU:HB3	1.90	0.54
1:c:301:LEU:HD11	1:c:345:LEU:HB3	1.90	0.54
1:g:301:LEU:HD11	1:g:345:LEU:HB3	1.90	0.54
1:g:525:TRP:CE3	1:g:530:PRO:HG3	2.42	0.54
1:i:182:PRO:C	1:i:184:GLN:H	2.14	0.54
1:i:525:TRP:CE3	1:i:530:PRO:HG3	2.42	0.54
1:q:301:LEU:HD11	1:q:345:LEU:HB3	1.90	0.54
1:x:127:MET:HG3	1:x:476:ILE:HG22	1.90	0.54
1:A:301:LEU:HD11	1:A:345:LEU:HB3	1.90	0.54
1:P:127:MET:HG3	1:P:476:ILE:HG22	1.89	0.54
1:W:316:TRP:O	1:W:337:GLY:HA2	2.08	0.54
1:X:316:TRP:O	1:X:337:GLY:HA2	2.08	0.54
1:Z:244:CYS:SG	1:Z:436:ILE:HG21	2.47	0.54
1:3:301:LEU:HD11	1:3:345:LEU:HB3	1.90	0.54
1:b:127:MET:HG3	1:b:476:ILE:HG22	1.90	0.54
1:d:301:LEU:HD11	1:d:345:LEU:HB3	1.90	0.54
1:e:301:LEU:HD11	1:e:345:LEU:HB3	1.90	0.54
1:j:301:LEU:HD11	1:j:345:LEU:HB3	1.90	0.54
1:k:301:LEU:HD11	1:k:345:LEU:HB3	1.90	0.54
1:o:316:TRP:O	1:o:337:GLY:HA2	2.08	0.54
1:q:316:TRP:O	1:q:337:GLY:HA2	2.08	0.54
1:r:301:LEU:HD11	1:r:345:LEU:HB3	1.90	0.54
1:t:316:TRP:O	1:t:337:GLY:HA2	2.08	0.54
1:x:301:LEU:HD11	1:x:345:LEU:HB3	1.90	0.54
1:8:244:CYS:SG	1:8:436:ILE:HG21	2.47	0.54
1:A:316:TRP:O	1:A:337:GLY:HA2	2.08	0.53
1:C:316:TRP:O	1:C:337:GLY:HA2	2.08	0.53
1:I:127:MET:HG3	1:I:476:ILE:HG22	1.90	0.53
1:I:316:TRP:O	1:I:337:GLY:HA2	2.08	0.53
1:J:244:CYS:SG	1:J:436:ILE:HG21	2.47	0.53
1:L:347:PRO:O	1:L:348:THR:OG1	2.23	0.53
1:N:127:MET:HG3	1:N:476:ILE:HG22	1.90	0.53
1:U:127:MET:HG3	1:U:476:ILE:HG22	1.90	0.53
1:V:301:LEU:HD11	1:V:345:LEU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:316:TRP:O	1:V:337:GLY:HA2	2.08	0.53
1:Y:316:TRP:O	1:Y:337:GLY:HA2	2.08	0.53
1:1:244:CYS:SG	1:1:245:GLU:N	2.79	0.53
1:5:90:CYS:SG	1:5:91:VAL:N	2.79	0.53
1:b:316:TRP:O	1:b:337:GLY:HA2	2.08	0.53
1:d:347:PRO:O	1:d:348:THR:OG1	2.23	0.53
1:g:316:TRP:O	1:g:337:GLY:HA2	2.08	0.53
1:k:266:THR:HA	1:l:174:ASP:HA	1.88	0.53
1:m:301:LEU:HD11	1:m:345:LEU:HB3	1.89	0.53
1:s:316:TRP:O	1:s:337:GLY:HA2	2.08	0.53
1:v:525:TRP:CE3	1:v:530:PRO:HG3	2.42	0.53
1:x:316:TRP:O	1:x:337:GLY:HA2	2.08	0.53
1:y:355:GLN:O	1:7:268:ARG:HD3	2.08	0.53
1:8:206:SER:HB3	1:8:207:ASN:CA	2.36	0.53
1:E:244:CYS:SG	1:E:245:GLU:N	2.79	0.53
1:F:301:LEU:HD11	1:F:345:LEU:HB3	1.89	0.53
1:I:61:ARG:HH11	1:I:178:MET:HE2	1.74	0.53
1:M:316:TRP:O	1:M:337:GLY:HA2	2.08	0.53
1:N:402:ASN:ND2	1:P:430:ASP:O	2.35	0.53
1:O:90:CYS:SG	1:O:91:VAL:N	2.79	0.53
1:R:316:TRP:O	1:R:337:GLY:HA2	2.08	0.53
1:U:244:CYS:SG	1:U:436:ILE:HG21	2.47	0.53
1:W:90:CYS:SG	1:W:91:VAL:N	2.79	0.53
1:Z:127:MET:HG3	1:Z:476:ILE:HG22	1.90	0.53
1:3:266:THR:HA	1:i:174:ASP:HA	1.88	0.53
1:6:347:PRO:O	1:6:348:THR:OG1	2.22	0.53
1:a:316:TRP:O	1:a:337:GLY:HA2	2.09	0.53
1:c:244:CYS:SG	1:c:436:ILE:HG21	2.47	0.53
1:k:347:PRO:O	1:k:348:THR:OG1	2.23	0.53
1:n:127:MET:HG3	1:n:476:ILE:HG22	1.89	0.53
1:p:127:MET:HG3	1:p:476:ILE:HG22	1.90	0.53
1:u:244:CYS:SG	1:u:245:GLU:N	2.79	0.53
1:w:244:CYS:SG	1:w:245:GLU:N	2.79	0.53
1:z:316:TRP:O	1:z:337:GLY:HA2	2.09	0.53
1:8:301:LEU:HD11	1:8:345:LEU:HB3	1.90	0.53
1:A:273:ARG:HH12	1:G:304:GLN:HB2	1.74	0.53
1:C:90:CYS:SG	1:C:91:VAL:N	2.79	0.53
1:D:127:MET:HG3	1:D:476:ILE:HG22	1.90	0.53
1:D:268:ARG:HD3	1:N:355:GLN:O	2.09	0.53
1:H:316:TRP:O	1:H:337:GLY:HA2	2.08	0.53
1:S:90:CYS:SG	1:S:91:VAL:N	2.79	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:244:CYS:SG	1:S:245:GLU:N	2.79	0.53
1:2:316:TRP:O	1:2:337:GLY:HA2	2.08	0.53
1:4:206:SER:HB3	1:4:207:ASN:CA	2.36	0.53
1:4:301:LEU:HD11	1:4:345:LEU:HB3	1.90	0.53
1:b:61:ARG:HH11	1:b:178:MET:HE2	1.74	0.53
1:n:301:LEU:HD11	1:n:345:LEU:HB3	1.90	0.53
1:n:355:GLN:O	1:p:268:ARG:HD3	2.09	0.53
1:o:127:MET:HG3	1:o:476:ILE:HG22	1.90	0.53
1:r:316:TRP:O	1:r:337:GLY:HA2	2.08	0.53
1:G:288:TYR:CZ	1:I:80:PRO:HB3	2.44	0.53
1:H:355:GLN:O	1:Y:268:ARG:HD3	2.09	0.53
1:I:244:CYS:SG	1:I:245:GLU:N	2.79	0.53
1:J:61:ARG:HH11	1:J:178:MET:HE2	1.74	0.53
1:R:244:CYS:SG	1:R:245:GLU:N	2.79	0.53
1:S:127:MET:HG3	1:S:476:ILE:HG22	1.90	0.53
1:Y:301:LEU:HD11	1:Y:345:LEU:HB3	1.90	0.53
1:5:316:TRP:O	1:5:337:GLY:HA2	2.08	0.53
1:b:363:THR:OG1	1:b:366:ASP:O	2.14	0.53
1:c:61:ARG:HH11	1:c:178:MET:HE2	1.74	0.53
1:d:363:THR:OG1	1:d:366:ASP:O	2.14	0.53
1:n:402:ASN:ND2	1:o:430:ASP:O	2.35	0.53
1:w:127:MET:HG3	1:w:476:ILE:HG22	1.90	0.53
1:y:90:CYS:SG	1:y:91:VAL:N	2.79	0.53
1:E:316:TRP:O	1:E:337:GLY:HA2	2.08	0.53
1:G:61:ARG:HH11	1:G:178:MET:HE2	1.74	0.53
1:L:363:THR:OG1	1:L:366:ASP:O	2.14	0.53
1:N:301:LEU:HD11	1:N:345:LEU:HB3	1.90	0.53
1:P:301:LEU:HD11	1:P:345:LEU:HB3	1.90	0.53
1:Q:301:LEU:HD11	1:Q:345:LEU:HB3	1.90	0.53
1:V:268:ARG:HD3	1:5:355:GLN:O	2.09	0.53
1:6:61:ARG:HH11	1:6:178:MET:HE2	1.74	0.53
1:b:244:CYS:SG	1:b:245:GLU:N	2.79	0.53
1:d:316:TRP:O	1:d:337:GLY:HA2	2.08	0.53
1:f:61:ARG:HH11	1:f:178:MET:HE2	1.74	0.53
1:f:244:CYS:SG	1:f:245:GLU:N	2.79	0.53
1:k:355:GLN:O	1:m:268:ARG:HD3	2.09	0.53
1:o:301:LEU:HD11	1:o:345:LEU:HB3	1.90	0.53
1:p:316:TRP:O	1:p:337:GLY:HA2	2.08	0.53
1:t:301:LEU:HD11	1:t:345:LEU:HB3	1.90	0.53
1:v:301:LEU:HD11	1:v:345:LEU:HB3	1.90	0.53
1:y:316:TRP:O	1:y:337:GLY:HA2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:505:ASP:O	1:C:507:ILE:HG22	2.09	0.53
1:D:316:TRP:O	1:D:337:GLY:HA2	2.08	0.53
1:D:347:PRO:O	1:D:348:THR:OG1	2.22	0.53
1:H:424:ASP:HB2	1:Y:406:ASP:HA	1.91	0.53
1:J:316:TRP:O	1:J:337:GLY:HA2	2.08	0.53
1:L:316:TRP:O	1:L:337:GLY:HA2	2.08	0.53
1:O:316:TRP:O	1:O:337:GLY:HA2	2.08	0.53
1:O:406:ASP:HA	1:g:424:ASP:HB2	1.91	0.53
1:Q:244:CYS:SG	1:Q:245:GLU:N	2.79	0.53
1:U:61:ARG:HH11	1:U:178:MET:HE2	1.74	0.53
1:Z:61:ARG:HH11	1:Z:178:MET:HE2	1.74	0.53
1:3:355:GLN:O	1:j:268:ARG:HD3	2.09	0.53
1:c:316:TRP:O	1:c:337:GLY:HA2	2.08	0.53
1:g:268:ARG:HD3	1:h:355:GLN:O	2.09	0.53
1:q:424:ASP:HB2	1:s:406:ASP:HA	1.91	0.53
1:q:505:ASP:O	1:q:507:ILE:HG22	2.09	0.53
1:u:316:TRP:O	1:u:337:GLY:HA2	2.08	0.53
1:w:61:ARG:HH11	1:w:178:MET:HE2	1.74	0.53
1:z:268:ARG:HD3	1:7:355:GLN:O	2.09	0.53
1:D:505:ASP:O	1:D:507:ILE:HG22	2.09	0.53
1:G:301:LEU:HD11	1:G:345:LEU:HB3	1.89	0.53
1:K:61:ARG:HH11	1:K:178:MET:HE2	1.74	0.53
1:O:505:ASP:O	1:O:507:ILE:HG22	2.09	0.53
1:S:61:ARG:HH11	1:S:178:MET:HE2	1.74	0.53
1:U:244:CYS:SG	1:U:245:GLU:N	2.79	0.53
1:W:127:MET:HG3	1:W:476:ILE:HG22	1.90	0.53
1:Y:127:MET:HG3	1:Y:476:ILE:HG22	1.90	0.53
1:Z:316:TRP:O	1:Z:337:GLY:HA2	2.08	0.53
1:1:90:CYS:SG	1:1:91:VAL:N	2.79	0.53
1:1:316:TRP:O	1:1:337:GLY:HA2	2.08	0.53
1:b:505:ASP:O	1:b:507:ILE:HG22	2.09	0.53
1:e:316:TRP:O	1:e:337:GLY:HA2	2.08	0.53
1:p:90:CYS:SG	1:p:91:VAL:N	2.79	0.53
1:p:347:PRO:O	1:p:348:THR:OG1	2.23	0.53
1:p:505:ASP:O	1:p:507:ILE:HG22	2.09	0.53
1:u:268:ARG:HD3	1:v:355:GLN:O	2.09	0.53
1:y:505:ASP:O	1:y:507:ILE:HG22	2.09	0.53
1:B:127:MET:HG3	1:B:476:ILE:HG22	1.89	0.53
1:C:424:ASP:HB2	1:M:406:ASP:HA	1.91	0.53
1:D:90:CYS:SG	1:D:91:VAL:N	2.79	0.53
1:E:268:ARG:HD3	1:Q:355:GLN:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:505:ASP:O	1:I:507:ILE:HG22	2.09	0.53
1:L:505:ASP:O	1:L:507:ILE:HG22	2.09	0.53
1:N:268:ARG:HD3	1:P:355:GLN:O	2.09	0.53
1:R:61:ARG:HH11	1:R:178:MET:HE2	1.74	0.53
1:T:316:TRP:O	1:T:337:GLY:HA2	2.08	0.53
1:X:127:MET:HG3	1:X:476:ILE:HG22	1.90	0.53
1:Z:244:CYS:SG	1:Z:245:GLU:N	2.79	0.53
1:l:61:ARG:HH11	1:l:178:MET:HE2	1.74	0.53
1:l:268:ARG:HD3	1:m:355:GLN:O	2.09	0.53
1:o:244:CYS:SG	1:o:245:GLU:N	2.79	0.53
1:q:268:ARG:HD3	1:r:355:GLN:O	2.09	0.53
1:t:268:ARG:HD3	1:u:355:GLN:O	2.09	0.53
1:t:406:ASP:HA	1:u:424:ASP:HB2	1.91	0.53
1:v:61:ARG:HH11	1:v:178:MET:HE2	1.74	0.53
1:x:61:ARG:HH11	1:x:178:MET:HE2	1.74	0.53
1:x:244:CYS:SG	1:x:245:GLU:N	2.79	0.53
1:y:61:ARG:HH11	1:y:178:MET:HE2	1.74	0.53
1:A:61:ARG:HH11	1:A:178:MET:HE2	1.74	0.53
1:A:127:MET:HG3	1:A:476:ILE:HG22	1.90	0.53
1:B:268:ARG:HD3	1:J:355:GLN:O	2.09	0.53
1:B:316:TRP:O	1:B:337:GLY:HA2	2.08	0.53
1:C:268:ARG:HD3	1:2:355:GLN:O	2.09	0.53
1:E:424:ASP:HB2	1:F:406:ASP:HA	1.91	0.53
1:H:61:ARG:HH11	1:H:178:MET:HE2	1.74	0.53
1:H:505:ASP:O	1:H:507:ILE:HG22	2.09	0.53
1:K:316:TRP:O	1:K:337:GLY:HA2	2.08	0.53
1:L:127:MET:HG3	1:L:476:ILE:HG22	1.89	0.53
1:M:61:ARG:HH11	1:M:178:MET:HE2	1.74	0.53
1:M:301:LEU:HD11	1:M:345:LEU:HB3	1.90	0.53
1:N:61:ARG:HH11	1:N:178:MET:HE2	1.74	0.53
1:N:316:TRP:O	1:N:337:GLY:HA2	2.08	0.53
1:O:355:GLN:O	1:h:268:ARG:HD3	2.09	0.53
1:P:244:CYS:SG	1:P:245:GLU:N	2.79	0.53
1:Q:61:ARG:HH11	1:Q:178:MET:HE2	1.74	0.53
1:T:268:ARG:HD3	1:4:355:GLN:O	2.09	0.53
1:U:316:TRP:O	1:U:337:GLY:HA2	2.08	0.53
1:U:505:ASP:O	1:U:507:ILE:HG22	2.09	0.53
1:V:61:ARG:HH11	1:V:178:MET:HE2	1.74	0.53
1:V:127:MET:HG3	1:V:476:ILE:HG22	1.90	0.53
1:Z:505:ASP:O	1:Z:507:ILE:HG22	2.09	0.53
1:4:505:ASP:O	1:4:507:ILE:HG22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:61:ARG:HH11	1:5:178:MET:HE2	1.74	0.53
1:6:301:LEU:HD11	1:6:345:LEU:HB3	1.90	0.53
1:a:127:MET:HG3	1:a:476:ILE:HG22	1.90	0.53
1:c:355:GLN:O	1:e:268:ARG:HD3	2.09	0.53
1:d:127:MET:HG3	1:d:476:ILE:HG22	1.89	0.53
1:d:505:ASP:O	1:d:507:ILE:HG22	2.09	0.53
1:e:127:MET:HG3	1:e:476:ILE:HG22	1.90	0.53
1:h:316:TRP:O	1:h:337:GLY:HA2	2.08	0.53
1:i:61:ARG:HH11	1:i:178:MET:HE2	1.74	0.53
1:i:268:ARG:HD3	1:j:355:GLN:O	2.09	0.53
1:i:316:TRP:O	1:i:337:GLY:HA2	2.08	0.53
1:l:316:TRP:O	1:l:337:GLY:HA2	2.08	0.53
1:n:61:ARG:HH11	1:n:178:MET:HE2	1.74	0.53
1:n:268:ARG:HD3	1:o:355:GLN:O	2.09	0.53
1:s:301:LEU:HD11	1:s:345:LEU:HB3	1.90	0.53
1:t:61:ARG:HH11	1:t:178:MET:HE2	1.74	0.53
1:y:406:ASP:HA	1:z:424:ASP:HB2	1.91	0.53
1:7:316:TRP:O	1:7:337:GLY:HA2	2.08	0.53
1:C:406:ASP:HA	1:2:424:ASP:HB2	1.91	0.53
1:D:355:GLN:O	1:P:268:ARG:HD3	2.09	0.53
1:O:61:ARG:HH11	1:O:178:MET:HE2	1.74	0.53
1:S:406:ASP:HA	1:U:424:ASP:HB2	1.91	0.53
1:T:355:GLN:O	1:f:268:ARG:HD3	2.09	0.53
1:V:406:ASP:HA	1:5:424:ASP:HB2	1.91	0.53
1:Y:61:ARG:HH11	1:Y:178:MET:HE2	1.74	0.53
1:Z:424:ASP:HB2	1:w:406:ASP:HA	1.91	0.53
1:1:268:ARG:HD3	1:8:355:GLN:O	2.09	0.53
1:3:61:ARG:HH11	1:3:178:MET:HE2	1.74	0.53
1:3:268:ARG:HD3	1:i:355:GLN:O	2.09	0.53
1:4:316:TRP:O	1:4:337:GLY:HA2	2.08	0.53
1:a:61:ARG:HH11	1:a:178:MET:HE2	1.74	0.53
1:e:505:ASP:O	1:e:507:ILE:HG22	2.09	0.53
1:f:505:ASP:O	1:f:507:ILE:HG22	2.09	0.53
1:j:316:TRP:O	1:j:337:GLY:HA2	2.08	0.53
1:j:505:ASP:O	1:j:507:ILE:HG22	2.09	0.53
1:k:61:ARG:HH11	1:k:178:MET:HE2	1.74	0.53
1:m:505:ASP:O	1:m:507:ILE:HG22	2.09	0.53
1:n:316:TRP:O	1:n:337:GLY:HA2	2.09	0.53
1:o:268:ARG:HD3	1:p:355:GLN:O	2.09	0.53
1:v:244:CYS:SG	1:v:245:GLU:N	2.79	0.53
1:8:505:ASP:O	1:8:507:ILE:HG22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:127:MET:HG3	1:E:476:ILE:HG22	1.90	0.52
1:E:355:GLN:O	1:F:268:ARG:HD3	2.09	0.52
1:F:61:ARG:HH11	1:F:178:MET:HE2	1.74	0.52
1:G:505:ASP:O	1:G:507:ILE:HG22	2.09	0.52
1:J:268:ARG:HD3	1:L:355:GLN:O	2.09	0.52
1:K:424:ASP:HB2	1:8:406:ASP:HA	1.91	0.52
1:K:505:ASP:O	1:K:507:ILE:HG22	2.09	0.52
1:1:61:ARG:HH11	1:1:178:MET:HE2	1.74	0.52
1:2:505:ASP:O	1:2:507:ILE:HG22	2.09	0.52
1:3:316:TRP:O	1:3:337:GLY:HA2	2.08	0.52
1:3:505:ASP:O	1:3:507:ILE:HG22	2.09	0.52
1:4:268:ARG:HD3	1:f:355:GLN:O	2.09	0.52
1:4:406:ASP:HA	1:f:424:ASP:HB2	1.91	0.52
1:5:505:ASP:O	1:5:507:ILE:HG22	2.09	0.52
1:6:505:ASP:O	1:6:507:ILE:HG22	2.09	0.52
1:a:505:ASP:O	1:a:507:ILE:HG22	2.09	0.52
1:c:268:ARG:HD3	1:d:355:GLN:O	2.09	0.52
1:f:316:TRP:O	1:f:337:GLY:HA2	2.08	0.52
1:i:505:ASP:O	1:i:507:ILE:HG22	2.09	0.52
1:k:268:ARG:HD3	1:l:355:GLN:O	2.09	0.52
1:k:316:TRP:O	1:k:337:GLY:HA2	2.08	0.52
1:k:505:ASP:O	1:k:507:ILE:HG22	2.09	0.52
1:m:316:TRP:O	1:m:337:GLY:HA2	2.08	0.52
1:q:406:ASP:HA	1:r:424:ASP:HB2	1.91	0.52
1:s:61:ARG:HH11	1:s:178:MET:HE2	1.74	0.52
1:s:505:ASP:O	1:s:507:ILE:HG22	2.09	0.52
1:u:127:MET:HG3	1:u:476:ILE:HG22	1.89	0.52
1:y:268:ARG:HD3	1:z:355:GLN:O	2.09	0.52
1:7:173:TRP:HE1	1:7:433:ASP:HB2	1.75	0.52
1:8:316:TRP:O	1:8:337:GLY:HA2	2.08	0.52
1:A:355:GLN:O	1:I:268:ARG:HD3	2.09	0.52
1:A:505:ASP:O	1:A:507:ILE:HG22	2.09	0.52
1:B:355:GLN:O	1:L:268:ARG:HD3	2.09	0.52
1:B:505:ASP:O	1:B:507:ILE:HG22	2.09	0.52
1:D:61:ARG:HH11	1:D:178:MET:HE2	1.74	0.52
1:G:316:TRP:O	1:G:337:GLY:HA2	2.08	0.52
1:K:355:GLN:O	1:8:268:ARG:HD3	2.09	0.52
1:M:505:ASP:O	1:M:507:ILE:HG22	2.09	0.52
1:O:301:LEU:HD11	1:O:345:LEU:HB3	1.90	0.52
1:O:424:ASP:HB2	1:h:406:ASP:HA	1.91	0.52
1:T:61:ARG:HH11	1:T:178:MET:HE2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:90:CYS:SG	1:T:91:VAL:N	2.79	0.52
1:X:505:ASP:O	1:X:507:ILE:HG22	2.09	0.52
1:Z:355:GLN:O	1:w:268:ARG:HD3	2.09	0.52
1:3:424:ASP:HB2	1:j:406:ASP:HA	1.91	0.52
1:4:173:TRP:HE1	1:4:433:ASP:HB2	1.75	0.52
1:6:316:TRP:O	1:6:337:GLY:HA2	2.08	0.52
1:a:355:GLN:O	1:b:268:ARG:HD3	2.09	0.52
1:c:424:ASP:HB2	1:e:406:ASP:HA	1.91	0.52
1:d:268:ARG:HD3	1:e:355:GLN:O	2.09	0.52
1:h:173:TRP:HE1	1:h:433:ASP:HB2	1.75	0.52
1:k:424:ASP:HB2	1:m:406:ASP:HA	1.92	0.52
1:l:505:ASP:O	1:l:507:ILE:HG22	2.09	0.52
1:r:505:ASP:O	1:r:507:ILE:HG22	2.09	0.52
1:t:355:GLN:O	1:v:268:ARG:HD3	2.09	0.52
1:t:505:ASP:O	1:t:507:ILE:HG22	2.09	0.52
1:w:316:TRP:O	1:w:337:GLY:HA2	2.08	0.52
1:y:127:MET:HG3	1:y:476:ILE:HG22	1.90	0.52
1:7:61:ARG:HH11	1:7:178:MET:HE2	1.74	0.52
1:7:505:ASP:O	1:7:507:ILE:HG22	2.09	0.52
1:8:173:TRP:HE1	1:8:433:ASP:HB2	1.75	0.52
1:B:406:ASP:HA	1:J:424:ASP:HB2	1.91	0.52
1:D:173:TRP:HE1	1:D:433:ASP:HB2	1.75	0.52
1:F:505:ASP:O	1:F:507:ILE:HG22	2.09	0.52
1:H:173:TRP:HE1	1:H:433:ASP:HB2	1.75	0.52
1:J:347:PRO:O	1:J:348:THR:OG1	2.22	0.52
1:K:268:ARG:HD3	1:l:355:GLN:O	2.09	0.52
1:L:296:THR:HG23	1:L:381:GLN:HB3	1.92	0.52
1:O:127:MET:HG3	1:O:476:ILE:HG22	1.90	0.52
1:U:363:THR:OG1	1:U:366:ASP:O	2.14	0.52
1:V:424:ASP:HB2	1:X:406:ASP:HA	1.91	0.52
1:V:505:ASP:O	1:V:507:ILE:HG22	2.09	0.52
1:W:406:ASP:HA	1:Y:424:ASP:HB2	1.91	0.52
1:W:505:ASP:O	1:W:507:ILE:HG22	2.09	0.52
1:2:173:TRP:HE1	1:2:433:ASP:HB2	1.75	0.52
1:a:347:PRO:O	1:a:348:THR:OG1	2.22	0.52
1:c:173:TRP:HE1	1:c:433:ASP:HB2	1.75	0.52
1:h:61:ARG:HH11	1:h:178:MET:HE2	1.74	0.52
1:h:505:ASP:O	1:h:507:ILE:HG22	2.09	0.52
1:p:61:ARG:HH11	1:p:178:MET:HE2	1.74	0.52
1:p:173:TRP:HE1	1:p:433:ASP:HB2	1.75	0.52
1:r:173:TRP:HE1	1:r:433:ASP:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:424:ASP:HB2	1:v:406:ASP:HA	1.91	0.52
1:w:301:LEU:HD11	1:w:345:LEU:HB3	1.90	0.52
1:z:505:ASP:O	1:z:507:ILE:HG22	2.09	0.52
1:A:347:PRO:O	1:A:348:THR:OG1	2.23	0.52
1:F:347:PRO:O	1:F:348:THR:OG1	2.23	0.52
1:F:355:GLN:O	1:Q:268:ARG:HD3	2.09	0.52
1:I:173:TRP:HE1	1:I:433:ASP:HB2	1.75	0.52
1:I:347:PRO:O	1:I:348:THR:OG1	2.22	0.52
1:J:173:TRP:HE1	1:J:433:ASP:HB2	1.75	0.52
1:N:505:ASP:O	1:N:507:ILE:HG22	2.09	0.52
1:R:268:ARG:HD3	1:S:355:GLN:O	2.09	0.52
1:R:355:GLN:O	1:U:268:ARG:HD3	2.09	0.52
1:S:268:ARG:HD3	1:U:355:GLN:O	2.09	0.52
1:S:316:TRP:O	1:S:337:GLY:HA2	2.08	0.52
1:V:296:THR:HG23	1:V:381:GLN:HB3	1.92	0.52
1:W:61:ARG:HH11	1:W:178:MET:HE2	1.74	0.52
1:Z:268:ARG:HD3	1:x:355:GLN:O	2.09	0.52
1:5:173:TRP:HE1	1:5:433:ASP:HB2	1.75	0.52
1:a:296:THR:HG23	1:a:381:GLN:HB3	1.92	0.52
1:b:173:TRP:HE1	1:b:433:ASP:HB2	1.75	0.52
1:d:296:THR:HG23	1:d:381:GLN:HB3	1.92	0.52
1:g:505:ASP:O	1:g:507:ILE:HG22	2.09	0.52
1:m:61:ARG:HH11	1:m:178:MET:HE2	1.74	0.52
1:n:505:ASP:O	1:n:507:ILE:HG22	2.09	0.52
1:w:355:GLN:O	1:x:268:ARG:HD3	2.09	0.52
1:y:301:LEU:HD11	1:y:345:LEU:HB3	1.90	0.52
1:A:296:THR:HG23	1:A:381:GLN:HB3	1.92	0.52
1:B:173:TRP:HE1	1:B:433:ASP:HB2	1.75	0.52
1:C:61:ARG:HH11	1:C:178:MET:HE2	1.74	0.52
1:F:424:ASP:HB2	1:Q:406:ASP:HA	1.92	0.52
1:G:276:GLY:O	1:G:278:THR:OG1	2.24	0.52
1:G:296:THR:HG23	1:G:381:GLN:HB3	1.92	0.52
1:J:140:LEU:HD12	1:J:147:THR:HB	1.92	0.52
1:J:296:THR:HG23	1:J:381:GLN:HB3	1.92	0.52
1:L:61:ARG:HH11	1:L:178:MET:HE2	1.74	0.52
1:R:173:TRP:HE1	1:R:433:ASP:HB2	1.75	0.52
1:S:301:LEU:HD11	1:S:345:LEU:HB3	1.90	0.52
1:T:201:ALA:H	1:T:210:GLU:CG	2.23	0.52
1:X:61:ARG:HH11	1:X:178:MET:HE2	1.74	0.52
1:Y:505:ASP:O	1:Y:507:ILE:HG22	2.09	0.52
1:Z:140:LEU:HD12	1:Z:147:THR:HB	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:201:ALA:H	1:1:210:GLU:CG	2.23	0.52
1:6:296:THR:HG23	1:6:381:GLN:HB3	1.92	0.52
1:c:140:LEU:HD12	1:c:147:THR:HB	1.92	0.52
1:e:61:ARG:HH11	1:e:178:MET:HE2	1.74	0.52
1:i:140:LEU:HD12	1:i:147:THR:HB	1.92	0.52
1:i:173:TRP:HE1	1:i:433:ASP:HB2	1.75	0.52
1:j:61:ARG:HH11	1:j:178:MET:HE2	1.74	0.52
1:l:173:TRP:HE1	1:l:433:ASP:HB2	1.75	0.52
1:r:140:LEU:HD12	1:r:147:THR:HB	1.92	0.52
1:v:316:TRP:O	1:v:337:GLY:HA2	2.08	0.52
1:x:173:TRP:HE1	1:x:433:ASP:HB2	1.75	0.52
1:B:61:ARG:HH11	1:B:178:MET:HE2	1.74	0.52
1:G:90:CYS:SG	1:G:91:VAL:N	2.79	0.52
1:M:90:CYS:SG	1:M:91:VAL:N	2.79	0.52
1:Q:316:TRP:O	1:Q:337:GLY:HA2	2.08	0.52
1:U:61:ARG:HD3	1:U:179:PRO:HD2	1.92	0.52
1:2:140:LEU:HD12	1:2:147:THR:HB	1.92	0.52
1:2:296:THR:HG23	1:2:381:GLN:HB3	1.92	0.52
1:6:90:CYS:SG	1:6:91:VAL:N	2.79	0.52
1:c:296:THR:HG23	1:c:381:GLN:HB3	1.92	0.52
1:c:347:PRO:O	1:c:348:THR:OG1	2.22	0.52
1:d:61:ARG:HH11	1:d:178:MET:HE2	1.74	0.52
1:h:140:LEU:HD12	1:h:147:THR:HB	1.92	0.52
1:r:268:ARG:HD3	1:s:355:GLN:O	2.09	0.52
1:C:355:GLN:O	1:M:268:ARG:HD3	2.09	0.52
1:G:61:ARG:HD3	1:G:179:PRO:HD2	1.92	0.52
1:K:61:ARG:HD3	1:K:179:PRO:HD2	1.92	0.52
1:L:201:ALA:H	1:L:210:GLU:CG	2.23	0.52
1:O:268:ARG:HD3	1:g:355:GLN:O	2.09	0.52
1:R:424:ASP:HB2	1:U:406:ASP:HA	1.91	0.52
1:T:406:ASP:HA	1:4:424:ASP:HB2	1.91	0.52
1:Y:296:THR:HG23	1:Y:381:GLN:HB3	1.92	0.52
1:Z:173:TRP:HE1	1:Z:433:ASP:HB2	1.75	0.52
1:2:90:CYS:SG	1:2:91:VAL:N	2.79	0.52
1:5:347:PRO:O	1:5:348:THR:OG1	2.23	0.52
1:6:61:ARG:HD3	1:6:179:PRO:HD2	1.92	0.52
1:6:268:ARG:HD3	1:b:355:GLN:O	2.09	0.52
1:b:347:PRO:O	1:b:348:THR:OG1	2.22	0.52
1:c:383:LEU:HB3	1:c:394:CYS:HB3	1.92	0.52
1:e:173:TRP:HE1	1:e:433:ASP:HB2	1.75	0.52
1:l:140:LEU:HD12	1:l:147:THR:HB	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:61:ARG:HH11	1:q:178:MET:HE2	1.74	0.52
1:q:296:THR:HG23	1:q:381:GLN:HB3	1.92	0.52
1:q:383:LEU:HB3	1:q:394:CYS:HB3	1.92	0.52
1:r:296:THR:HG23	1:r:381:GLN:HB3	1.92	0.52
1:t:90:CYS:SG	1:t:91:VAL:N	2.79	0.52
1:x:296:THR:HG23	1:x:381:GLN:HB3	1.92	0.52
1:x:505:ASP:O	1:x:507:ILE:HG22	2.09	0.52
1:7:140:LEU:HD12	1:7:147:THR:HB	1.92	0.52
1:7:296:THR:HG23	1:7:381:GLN:HB3	1.92	0.52
1:C:296:THR:HG23	1:C:381:GLN:HB3	1.92	0.52
1:C:383:LEU:HB3	1:C:394:CYS:HB3	1.92	0.52
1:E:505:ASP:O	1:E:507:ILE:HG22	2.09	0.52
1:F:61:ARG:HD3	1:F:179:PRO:HD2	1.92	0.52
1:G:383:LEU:HB3	1:G:394:CYS:HB3	1.92	0.52
1:H:347:PRO:O	1:H:348:THR:OG1	2.23	0.52
1:J:383:LEU:HB3	1:J:394:CYS:HB3	1.92	0.52
1:L:90:CYS:SG	1:L:91:VAL:N	2.79	0.52
1:L:173:TRP:HE1	1:L:433:ASP:HB2	1.75	0.52
1:M:355:GLN:O	1:2:268:ARG:HD3	2.09	0.52
1:N:140:LEU:HD12	1:N:147:THR:HB	1.92	0.52
1:N:406:ASP:HA	1:P:424:ASP:HB2	1.91	0.52
1:Q:383:LEU:HB3	1:Q:394:CYS:HB3	1.92	0.52
1:R:296:THR:HG23	1:R:381:GLN:HB3	1.92	0.52
1:U:140:LEU:HD12	1:U:147:THR:HB	1.92	0.52
1:U:173:TRP:HE1	1:U:433:ASP:HB2	1.75	0.52
1:V:140:LEU:HD12	1:V:147:THR:HB	1.92	0.52
1:Z:61:ARG:HD3	1:Z:179:PRO:HD2	1.92	0.52
1:1:296:THR:HG23	1:1:381:GLN:HB3	1.92	0.52
1:1:406:ASP:HA	1:8:424:ASP:HB2	1.92	0.52
1:3:201:ALA:H	1:3:210:GLU:CG	2.23	0.52
1:6:383:LEU:HB3	1:6:394:CYS:HB3	1.92	0.52
1:b:201:ALA:H	1:b:210:GLU:CG	2.23	0.52
1:d:173:TRP:HE1	1:d:433:ASP:HB2	1.75	0.52
1:d:201:ALA:H	1:d:210:GLU:CG	2.23	0.52
1:f:61:ARG:HD3	1:f:179:PRO:HD2	1.92	0.52
1:h:296:THR:HG23	1:h:381:GLN:HB3	1.92	0.52
1:n:406:ASP:HA	1:o:424:ASP:HB2	1.91	0.52
1:o:140:LEU:HD12	1:o:147:THR:HB	1.92	0.52
1:q:173:TRP:HE1	1:q:433:ASP:HB2	1.75	0.52
1:r:406:ASP:HA	1:s:424:ASP:HB2	1.91	0.52
1:t:347:PRO:O	1:t:348:THR:OG1	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:201:ALA:H	1:u:210:GLU:CG	2.23	0.52
1:u:505:ASP:O	1:u:507:ILE:HG22	2.09	0.52
1:y:173:TRP:HE1	1:y:433:ASP:HB2	1.75	0.52
1:C:173:TRP:HE1	1:C:433:ASP:HB2	1.75	0.52
1:D:61:ARG:HD3	1:D:179:PRO:HD2	1.92	0.52
1:E:140:LEU:HD12	1:E:147:THR:HB	1.92	0.52
1:E:201:ALA:H	1:E:210:GLU:CG	2.23	0.52
1:G:492:ARG:HA	1:H:495:THR:O	2.10	0.52
1:H:61:ARG:HD3	1:H:179:PRO:HD2	1.92	0.52
1:H:201:ALA:H	1:H:210:GLU:CG	2.23	0.52
1:H:268:ARG:HD3	1:W:355:GLN:O	2.09	0.52
1:I:201:ALA:H	1:I:210:GLU:CG	2.23	0.52
1:O:173:TRP:HE1	1:O:433:ASP:HB2	1.75	0.52
1:O:201:ALA:H	1:O:210:GLU:CG	2.23	0.52
1:P:61:ARG:HH11	1:P:178:MET:HE2	1.74	0.52
1:P:140:LEU:HD12	1:P:147:THR:HB	1.92	0.52
1:P:201:ALA:H	1:P:210:GLU:CG	2.23	0.52
1:Q:90:CYS:SG	1:Q:91:VAL:N	2.79	0.52
1:Q:505:ASP:O	1:Q:507:ILE:HG22	2.09	0.52
1:R:406:ASP:HA	1:S:424:ASP:HB2	1.91	0.52
1:R:505:ASP:O	1:R:507:ILE:HG22	2.09	0.52
1:T:296:THR:HG23	1:T:381:GLN:HB3	1.92	0.52
1:T:383:LEU:HB3	1:T:394:CYS:HB3	1.92	0.52
1:W:268:ARG:HD3	1:Y:355:GLN:O	2.09	0.52
1:Y:140:LEU:HD12	1:Y:147:THR:HB	1.92	0.52
1:Y:173:TRP:HE1	1:Y:433:ASP:HB2	1.75	0.52
1:2:201:ALA:H	1:2:210:GLU:CG	2.23	0.52
1:3:406:ASP:HA	1:i:424:ASP:HB2	1.91	0.52
1:4:296:THR:HG23	1:4:381:GLN:HB3	1.92	0.52
1:5:61:ARG:HD3	1:5:179:PRO:HD2	1.92	0.52
1:5:201:ALA:H	1:5:210:GLU:CG	2.23	0.52
1:6:424:ASP:HB2	1:a:406:ASP:HA	1.91	0.52
1:c:505:ASP:O	1:c:507:ILE:HG22	2.09	0.52
1:d:406:ASP:HA	1:e:424:ASP:HB2	1.91	0.52
1:f:173:TRP:HE1	1:f:433:ASP:HB2	1.75	0.52
1:f:296:THR:HG23	1:f:381:GLN:HB3	1.92	0.52
1:i:296:THR:HG23	1:i:381:GLN:HB3	1.92	0.52
1:k:201:ALA:H	1:k:210:GLU:CG	2.23	0.52
1:l:61:ARG:HD3	1:l:179:PRO:HD2	1.92	0.52
1:l:244:CYS:SG	1:l:245:GLU:N	2.79	0.52
1:m:201:ALA:H	1:m:210:GLU:CG	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:140:LEU:HD12	1:n:147:THR:HB	1.92	0.52
1:o:173:TRP:HE1	1:o:433:ASP:HB2	1.75	0.52
1:o:201:ALA:H	1:o:210:GLU:CG	2.23	0.52
1:q:355:GLN:O	1:s:268:ARG:HD3	2.09	0.52
1:t:61:ARG:HD3	1:t:179:PRO:HD2	1.92	0.52
1:v:383:LEU:HB3	1:v:394:CYS:HB3	1.92	0.52
1:v:505:ASP:O	1:v:507:ILE:HG22	2.09	0.52
1:w:61:ARG:HD3	1:w:179:PRO:HD2	1.92	0.52
1:w:505:ASP:O	1:w:507:ILE:HG22	2.09	0.52
1:y:424:ASP:HB2	1:7:406:ASP:HA	1.91	0.52
1:z:61:ARG:HH11	1:z:178:MET:HE2	1.74	0.52
1:z:173:TRP:HE1	1:z:433:ASP:HB2	1.75	0.52
1:A:102:GLN:NE2	1:A:104:SER:OG	2.43	0.52
1:A:201:ALA:H	1:A:210:GLU:CG	2.23	0.52
1:B:424:ASP:HB2	1:L:406:ASP:HA	1.92	0.52
1:G:102:GLN:NE2	1:G:104:SER:OG	2.43	0.52
1:H:140:LEU:HD12	1:H:147:THR:HB	1.92	0.52
1:K:296:THR:HG23	1:K:381:GLN:HB3	1.92	0.52
1:M:424:ASP:HB2	1:2:406:ASP:HA	1.91	0.52
1:M:468:CYS:SG	1:M:469:THR:N	2.83	0.52
1:O:268:ARG:HH21	1:g:173:TRP:CD1	2.28	0.52
1:P:90:CYS:SG	1:P:91:VAL:N	2.79	0.52
1:P:173:TRP:HE1	1:P:433:ASP:HB2	1.75	0.52
1:P:505:ASP:O	1:P:507:ILE:HG22	2.09	0.52
1:Q:173:TRP:HE1	1:Q:433:ASP:HB2	1.75	0.52
1:V:173:TRP:HE1	1:V:433:ASP:HB2	1.75	0.52
1:X:355:GLN:O	1:5:268:ARG:HD3	2.09	0.52
1:Y:102:GLN:NE2	1:Y:104:SER:OG	2.43	0.52
1:Z:406:ASP:HA	1:x:424:ASP:HB2	1.91	0.52
1:6:102:GLN:NE2	1:6:104:SER:OG	2.43	0.52
1:6:355:GLN:O	1:a:268:ARG:HD3	2.09	0.52
1:a:140:LEU:HD12	1:a:147:THR:HB	1.92	0.52
1:e:296:THR:HG23	1:e:381:GLN:HB3	1.92	0.52
1:g:61:ARG:HH11	1:g:178:MET:HE2	1.74	0.52
1:g:173:TRP:HE1	1:g:433:ASP:HB2	1.75	0.52
1:i:61:ARG:HD3	1:i:179:PRO:HD2	1.92	0.52
1:j:201:ALA:H	1:j:210:GLU:CG	2.23	0.52
1:j:296:THR:HG23	1:j:381:GLN:HB3	1.92	0.52
1:k:102:GLN:NE2	1:k:104:SER:OG	2.43	0.52
1:o:61:ARG:HH11	1:o:178:MET:HE2	1.74	0.52
1:o:90:CYS:SG	1:o:91:VAL:N	2.79	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:201:ALA:H	1:r:210:GLU:CG	2.23	0.52
1:t:383:LEU:HB3	1:t:394:CYS:HB3	1.92	0.52
1:u:140:LEU:HD12	1:u:147:THR:HB	1.92	0.52
1:w:424:ASP:HB2	1:x:406:ASP:HA	1.91	0.52
1:y:201:ALA:H	1:y:210:GLU:CG	2.23	0.52
1:z:406:ASP:HA	1:7:424:ASP:HB2	1.91	0.52
1:B:296:THR:HG23	1:B:381:GLN:HB3	1.92	0.51
1:E:468:CYS:SG	1:E:469:THR:N	2.84	0.51
1:F:383:LEU:HB3	1:F:394:CYS:HB3	1.92	0.51
1:H:383:LEU:HB3	1:H:394:CYS:HB3	1.92	0.51
1:J:406:ASP:HA	1:L:424:ASP:HB2	1.91	0.51
1:J:505:ASP:O	1:J:507:ILE:HG22	2.09	0.51
1:M:102:GLN:NE2	1:M:104:SER:OG	2.43	0.51
1:O:304:GLN:HB2	1:h:273:ARG:HH12	1.76	0.51
1:O:419:LYS:NZ	1:h:539:LEU:OXT	2.43	0.51
1:O:539:LEU:OXT	1:g:419:LYS:NZ	2.43	0.51
1:R:419:LYS:NZ	1:U:539:LEU:OXT	2.43	0.51
1:S:201:ALA:H	1:S:210:GLU:CG	2.23	0.51
1:S:505:ASP:O	1:S:507:ILE:HG22	2.09	0.51
1:V:102:GLN:NE2	1:V:104:SER:OG	2.43	0.51
1:W:383:LEU:HB3	1:W:394:CYS:HB3	1.92	0.51
1:1:383:LEU:HB3	1:1:394:CYS:HB3	1.92	0.51
1:3:102:GLN:NE2	1:3:104:SER:OG	2.43	0.51
1:5:140:LEU:HD12	1:5:147:THR:HB	1.92	0.51
1:5:383:LEU:HB3	1:5:394:CYS:HB3	1.92	0.51
1:a:61:ARG:HD3	1:a:179:PRO:HD2	1.92	0.51
1:a:102:GLN:NE2	1:a:104:SER:OG	2.43	0.51
1:a:201:ALA:H	1:a:210:GLU:CG	2.23	0.51
1:c:406:ASP:HA	1:d:424:ASP:HB2	1.91	0.51
1:d:140:LEU:HD12	1:d:147:THR:HB	1.92	0.51
1:g:406:ASP:HA	1:h:424:ASP:HB2	1.91	0.51
1:i:102:GLN:NE2	1:i:104:SER:OG	2.44	0.51
1:i:468:CYS:SG	1:i:469:THR:N	2.84	0.51
1:k:406:ASP:HA	1:l:424:ASP:HB2	1.91	0.51
1:l:102:GLN:NE2	1:l:104:SER:OG	2.44	0.51
1:l:296:THR:HG23	1:l:381:GLN:HB3	1.92	0.51
1:l:468:CYS:SG	1:l:469:THR:N	2.84	0.51
1:m:296:THR:HG23	1:m:381:GLN:HB3	1.92	0.51
1:p:61:ARG:HD3	1:p:179:PRO:HD2	1.92	0.51
1:r:90:CYS:SG	1:r:91:VAL:N	2.79	0.51
1:s:90:CYS:SG	1:s:91:VAL:N	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:102:GLN:NE2	1:s:104:SER:OG	2.43	0.51
1:s:468:CYS:SG	1:s:469:THR:N	2.84	0.51
1:t:419:LYS:NZ	1:v:539:LEU:OXT	2.43	0.51
1:u:406:ASP:HA	1:v:424:ASP:HB2	1.91	0.51
1:u:468:CYS:SG	1:u:469:THR:N	2.84	0.51
1:w:201:ALA:H	1:w:210:GLU:CG	2.23	0.51
1:z:201:ALA:H	1:z:210:GLU:CG	2.23	0.51
1:z:539:LEU:OXT	1:7:419:LYS:NZ	2.43	0.51
1:8:296:THR:HG23	1:8:381:GLN:HB3	1.92	0.51
1:A:140:LEU:HD12	1:A:147:THR:HB	1.92	0.51
1:A:406:ASP:HA	1:G:424:ASP:HB2	1.92	0.51
1:D:201:ALA:H	1:D:210:GLU:CG	2.23	0.51
1:D:406:ASP:HA	1:N:424:ASP:HB2	1.91	0.51
1:E:173:TRP:CD1	1:F:268:ARG:HH21	2.29	0.51
1:E:406:ASP:HA	1:Q:424:ASP:HB2	1.91	0.51
1:F:90:CYS:SG	1:F:91:VAL:N	2.79	0.51
1:F:419:LYS:NZ	1:Q:539:LEU:OXT	2.44	0.51
1:G:173:TRP:HE1	1:G:433:ASP:HB2	1.75	0.51
1:K:173:TRP:HE1	1:K:433:ASP:HB2	1.75	0.51
1:L:102:GLN:NE2	1:L:104:SER:OG	2.44	0.51
1:L:140:LEU:HD12	1:L:147:THR:HB	1.92	0.51
1:N:61:ARG:HD3	1:N:179:PRO:HD2	1.92	0.51
1:R:468:CYS:SG	1:R:469:THR:N	2.84	0.51
1:S:61:ARG:HD3	1:S:179:PRO:HD2	1.92	0.51
1:U:102:GLN:NE2	1:U:104:SER:OG	2.43	0.51
1:U:383:LEU:HB3	1:U:394:CYS:HB3	1.92	0.51
1:V:355:GLN:O	1:X:268:ARG:HD3	2.09	0.51
1:X:347:PRO:O	1:X:348:THR:OG1	2.23	0.51
1:X:383:LEU:HB3	1:X:394:CYS:HB3	1.92	0.51
1:Z:102:GLN:NE2	1:Z:104:SER:OG	2.43	0.51
1:5:164:HIS:HB2	1:5:422:ARG:HH22	1.76	0.51
1:a:424:ASP:HB2	1:b:406:ASP:HA	1.91	0.51
1:d:102:GLN:NE2	1:d:104:SER:OG	2.44	0.51
1:g:201:ALA:H	1:g:210:GLU:CG	2.23	0.51
1:g:539:LEU:OXT	1:h:419:LYS:NZ	2.43	0.51
1:n:61:ARG:HD3	1:n:179:PRO:HD2	1.92	0.51
1:o:505:ASP:O	1:o:507:ILE:HG22	2.09	0.51
1:p:201:ALA:H	1:p:210:GLU:CG	2.23	0.51
1:q:102:GLN:NE2	1:q:104:SER:OG	2.43	0.51
1:r:61:ARG:HH11	1:r:178:MET:HE2	1.74	0.51
1:s:383:LEU:HB3	1:s:394:CYS:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:90:CYS:SG	1:v:91:VAL:N	2.79	0.51
1:v:173:TRP:HE1	1:v:433:ASP:HB2	1.75	0.51
1:x:468:CYS:SG	1:x:469:THR:N	2.83	0.51
1:A:61:ARG:HD3	1:A:179:PRO:HD2	1.92	0.51
1:C:102:GLN:NE2	1:C:104:SER:OG	2.43	0.51
1:E:61:ARG:HH11	1:E:178:MET:HE2	1.74	0.51
1:E:383:LEU:HB3	1:E:394:CYS:HB3	1.92	0.51
1:H:164:HIS:HB2	1:H:422:ARG:HH22	1.76	0.51
1:I:102:GLN:NE2	1:I:104:SER:OG	2.43	0.51
1:L:468:CYS:SG	1:L:469:THR:N	2.84	0.51
1:M:383:LEU:HB3	1:M:394:CYS:HB3	1.92	0.51
1:T:173:TRP:HE1	1:T:433:ASP:HB2	1.75	0.51
1:Z:296:THR:HG23	1:Z:381:GLN:HB3	1.92	0.51
1:Z:383:LEU:HB3	1:Z:394:CYS:HB3	1.92	0.51
1:1:164:HIS:HB2	1:1:422:ARG:HH22	1.76	0.51
1:1:173:TRP:HE1	1:1:433:ASP:HB2	1.75	0.51
1:1:468:CYS:SG	1:1:469:THR:N	2.83	0.51
1:3:383:LEU:HB3	1:3:394:CYS:HB3	1.92	0.51
1:4:102:GLN:NE2	1:4:104:SER:OG	2.43	0.51
1:4:468:CYS:SG	1:4:469:THR:N	2.84	0.51
1:6:201:ALA:H	1:6:210:GLU:CG	2.23	0.51
1:6:539:LEU:OXT	1:b:419:LYS:NZ	2.43	0.51
1:b:140:LEU:HD12	1:b:147:THR:HB	1.92	0.51
1:d:90:CYS:SG	1:d:91:VAL:N	2.79	0.51
1:d:468:CYS:SG	1:d:469:THR:N	2.84	0.51
1:f:140:LEU:HD12	1:f:147:THR:HB	1.92	0.51
1:k:383:LEU:HB3	1:k:394:CYS:HB3	1.92	0.51
1:n:424:ASP:HB2	1:p:406:ASP:HA	1.91	0.51
1:o:539:LEU:OXT	1:p:419:LYS:NZ	2.44	0.51
1:r:102:GLN:NE2	1:r:104:SER:OG	2.43	0.51
1:u:61:ARG:HH11	1:u:178:MET:HE2	1.74	0.51
1:u:61:ARG:HD3	1:u:179:PRO:HD2	1.92	0.51
1:u:383:LEU:HB3	1:u:394:CYS:HB3	1.92	0.51
1:y:539:LEU:OXT	1:z:419:LYS:NZ	2.43	0.51
1:A:244:CYS:SG	1:A:245:GLU:N	2.79	0.51
1:C:61:ARG:HD3	1:C:179:PRO:HD2	1.92	0.51
1:D:419:LYS:NZ	1:P:539:LEU:OXT	2.44	0.51
1:H:102:GLN:NE2	1:H:104:SER:OG	2.43	0.51
1:I:140:LEU:HD12	1:I:147:THR:HB	1.92	0.51
1:J:407:ARG:HH21	1:J:431:PRO:HD2	1.76	0.51
1:K:140:LEU:HD12	1:K:147:THR:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:383:LEU:HB3	1:L:394:CYS:HB3	1.92	0.51
1:M:201:ALA:H	1:M:210:GLU:CG	2.23	0.51
1:N:95:TRP:CG	1:N:222:LEU:HD12	2.46	0.51
1:P:102:GLN:NE2	1:P:104:SER:OG	2.43	0.51
1:Q:61:ARG:HD3	1:Q:179:PRO:HD2	1.92	0.51
1:Q:468:CYS:SG	1:Q:469:THR:N	2.84	0.51
1:T:140:LEU:HD12	1:T:147:THR:HB	1.92	0.51
1:T:164:HIS:HB2	1:T:422:ARG:HH22	1.76	0.51
1:T:468:CYS:SG	1:T:469:THR:N	2.84	0.51
1:U:296:THR:HG23	1:U:381:GLN:HB3	1.92	0.51
1:V:468:CYS:SG	1:V:469:THR:N	2.84	0.51
1:W:201:ALA:H	1:W:210:GLU:CG	2.23	0.51
1:W:296:THR:HG23	1:W:381:GLN:HB3	1.92	0.51
1:W:347:PRO:O	1:W:348:THR:OG1	2.23	0.51
1:X:424:ASP:HB2	1:5:406:ASP:HA	1.91	0.51
1:Z:201:ALA:H	1:Z:210:GLU:CG	2.23	0.51
1:Z:539:LEU:OXT	1:x:419:LYS:NZ	2.44	0.51
1:2:61:ARG:HH11	1:2:178:MET:HE2	1.74	0.51
1:2:102:GLN:NE2	1:2:104:SER:OG	2.44	0.51
1:3:61:ARG:HD3	1:3:179:PRO:HD2	1.92	0.51
1:4:140:LEU:HD12	1:4:147:THR:HB	1.92	0.51
1:a:383:LEU:HB3	1:a:394:CYS:HB3	1.92	0.51
1:b:61:ARG:HD3	1:b:179:PRO:HD2	1.92	0.51
1:b:102:GLN:NE2	1:b:104:SER:OG	2.43	0.51
1:c:407:ARG:HH21	1:c:431:PRO:HD2	1.76	0.51
1:d:383:LEU:HB3	1:d:394:CYS:HB3	1.92	0.51
1:i:201:ALA:H	1:i:210:GLU:CG	2.23	0.51
1:k:61:ARG:HD3	1:k:179:PRO:HD2	1.92	0.51
1:n:95:TRP:CG	1:n:222:LEU:HD12	2.46	0.51
1:n:201:ALA:H	1:n:210:GLU:CG	2.23	0.51
1:o:102:GLN:NE2	1:o:104:SER:OG	2.43	0.51
1:q:140:LEU:HD12	1:q:147:THR:HB	1.92	0.51
1:r:95:TRP:CG	1:r:222:LEU:HD12	2.46	0.51
1:s:95:TRP:CG	1:s:222:LEU:HD12	2.46	0.51
1:v:61:ARG:HD3	1:v:179:PRO:HD2	1.92	0.51
1:w:173:TRP:HE1	1:w:433:ASP:HB2	1.75	0.51
1:w:296:THR:HG23	1:w:381:GLN:HB3	1.92	0.51
1:8:102:GLN:NE2	1:8:104:SER:OG	2.43	0.51
1:8:468:CYS:SG	1:8:469:THR:N	2.84	0.51
1:A:304:GLN:HB2	1:I:273:ARG:HH12	1.76	0.51
1:A:424:ASP:HB2	1:I:406:ASP:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:268:ARG:HH21	1:J:173:TRP:CD1	2.29	0.51
1:C:419:LYS:NZ	1:M:539:LEU:OXT	2.43	0.51
1:D:164:HIS:HB2	1:D:422:ARG:HH22	1.76	0.51
1:E:61:ARG:HD3	1:E:179:PRO:HD2	1.92	0.51
1:F:102:GLN:NE2	1:F:104:SER:OG	2.44	0.51
1:G:201:ALA:H	1:G:210:GLU:CG	2.23	0.51
1:H:406:ASP:HA	1:W:424:ASP:HB2	1.91	0.51
1:L:95:TRP:CG	1:L:222:LEU:HD12	2.46	0.51
1:M:61:ARG:HD3	1:M:179:PRO:HD2	1.92	0.51
1:M:95:TRP:CG	1:M:222:LEU:HD12	2.46	0.51
1:N:201:ALA:H	1:N:210:GLU:CG	2.23	0.51
1:P:468:CYS:SG	1:P:469:THR:N	2.84	0.51
1:S:173:TRP:HE1	1:S:433:ASP:HB2	1.75	0.51
1:S:296:THR:HG23	1:S:381:GLN:HB3	1.92	0.51
1:Y:468:CYS:SG	1:Y:469:THR:N	2.84	0.51
1:1:61:ARG:HD3	1:1:179:PRO:HD2	1.92	0.51
1:1:505:ASP:O	1:1:507:ILE:HG22	2.09	0.51
1:2:95:TRP:CG	1:2:222:LEU:HD12	2.46	0.51
1:5:102:GLN:NE2	1:5:104:SER:OG	2.43	0.51
1:5:407:ARG:HH21	1:5:431:PRO:HD2	1.76	0.51
1:6:173:TRP:HE1	1:6:433:ASP:HB2	1.75	0.51
1:6:304:GLN:HB2	1:a:273:ARG:HH12	1.76	0.51
1:a:244:CYS:SG	1:a:245:GLU:N	2.79	0.51
1:a:304:GLN:HB2	1:b:273:ARG:HH12	1.76	0.51
1:b:164:HIS:HB2	1:b:422:ARG:HH22	1.76	0.51
1:d:95:TRP:CG	1:d:222:LEU:HD12	2.46	0.51
1:g:90:CYS:SG	1:g:91:VAL:N	2.79	0.51
1:i:244:CYS:SG	1:i:245:GLU:N	2.79	0.51
1:i:347:PRO:O	1:i:348:THR:OG1	2.23	0.51
1:j:102:GLN:NE2	1:j:104:SER:OG	2.43	0.51
1:l:347:PRO:O	1:l:348:THR:OG1	2.22	0.51
1:m:102:GLN:NE2	1:m:104:SER:OG	2.43	0.51
1:p:468:CYS:SG	1:p:469:THR:N	2.84	0.51
1:q:61:ARG:HD3	1:q:179:PRO:HD2	1.92	0.51
1:s:61:ARG:HD3	1:s:179:PRO:HD2	1.92	0.51
1:s:201:ALA:H	1:s:210:GLU:CG	2.23	0.51
1:v:468:CYS:SG	1:v:469:THR:N	2.84	0.51
1:x:102:GLN:NE2	1:x:104:SER:OG	2.43	0.51
1:x:164:HIS:HD2	1:x:440:HIS:HD2	1.59	0.51
1:z:383:LEU:HB3	1:z:394:CYS:HB3	1.92	0.51
1:A:383:LEU:HB3	1:A:394:CYS:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:102:GLN:NE2	1:B:104:SER:OG	2.43	0.51
1:C:95:TRP:CG	1:C:222:LEU:HD12	2.46	0.51
1:C:140:LEU:HD12	1:C:147:THR:HB	1.92	0.51
1:C:164:HIS:HD2	1:C:440:HIS:HD2	1.59	0.51
1:C:539:LEU:OXT	1:2:419:LYS:NZ	2.44	0.51
1:D:468:CYS:SG	1:D:469:THR:N	2.84	0.51
1:E:164:HIS:HB2	1:E:422:ARG:HH22	1.76	0.51
1:F:164:HIS:HD2	1:F:440:HIS:HD2	1.59	0.51
1:F:164:HIS:HB2	1:F:422:ARG:HH22	1.76	0.51
1:G:268:ARG:HD3	1:I:355:GLN:O	2.10	0.51
1:H:407:ARG:HH21	1:H:431:PRO:HD2	1.76	0.51
1:I:61:ARG:HD3	1:I:179:PRO:HD2	1.92	0.51
1:I:95:TRP:CG	1:I:222:LEU:HD12	2.46	0.51
1:I:164:HIS:HB2	1:I:422:ARG:HH22	1.76	0.51
1:I:296:THR:HG23	1:I:381:GLN:HB3	1.92	0.51
1:K:95:TRP:CG	1:K:222:LEU:HD12	2.46	0.51
1:K:468:CYS:SG	1:K:469:THR:N	2.84	0.51
1:N:173:TRP:HE1	1:N:433:ASP:HB2	1.75	0.51
1:O:173:TRP:CD1	1:h:268:ARG:HH21	2.29	0.51
1:P:164:HIS:HB2	1:P:422:ARG:HH22	1.76	0.51
1:Q:102:GLN:NE2	1:Q:104:SER:OG	2.44	0.51
1:R:95:TRP:CG	1:R:222:LEU:HD12	2.46	0.51
1:R:102:GLN:NE2	1:R:104:SER:OG	2.43	0.51
1:R:164:HIS:HD2	1:R:440:HIS:HD2	1.59	0.51
1:S:102:GLN:NE2	1:S:104:SER:OG	2.43	0.51
1:S:164:HIS:HD2	1:S:440:HIS:HD2	1.59	0.51
1:T:61:ARG:HD3	1:T:179:PRO:HD2	1.92	0.51
1:V:90:CYS:SG	1:V:91:VAL:N	2.79	0.51
1:W:173:TRP:HE1	1:W:433:ASP:HB2	1.75	0.51
1:W:407:ARG:HH21	1:W:431:PRO:HD2	1.76	0.51
1:X:140:LEU:HD12	1:X:147:THR:HB	1.92	0.51
1:X:201:ALA:H	1:X:210:GLU:CG	2.23	0.51
1:X:296:THR:HG23	1:X:381:GLN:HB3	1.92	0.51
1:X:407:ARG:HH21	1:X:431:PRO:HD2	1.76	0.51
1:Y:90:CYS:SG	1:Y:91:VAL:N	2.79	0.51
1:Z:407:ARG:HH21	1:Z:431:PRO:HD2	1.76	0.51
1:1:140:LEU:HD12	1:1:147:THR:HB	1.92	0.51
1:1:407:ARG:HH21	1:1:431:PRO:HD2	1.76	0.51
1:3:173:TRP:HE1	1:3:433:ASP:HB2	1.75	0.51
1:6:173:TRP:CD1	1:a:268:ARG:HH21	2.28	0.51
1:a:164:HIS:HD2	1:a:440:HIS:HD2	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:95:TRP:CG	1:b:222:LEU:HD12	2.46	0.51
1:b:296:THR:HG23	1:b:381:GLN:HB3	1.92	0.51
1:b:383:LEU:HB3	1:b:394:CYS:HB3	1.92	0.51
1:c:173:TRP:CD1	1:e:268:ARG:HH21	2.29	0.51
1:d:164:HIS:HB2	1:d:422:ARG:HH22	1.76	0.51
1:f:95:TRP:CG	1:f:222:LEU:HD12	2.46	0.51
1:f:102:GLN:NE2	1:f:104:SER:OG	2.43	0.51
1:f:468:CYS:SG	1:f:469:THR:N	2.83	0.51
1:g:164:HIS:HB2	1:g:422:ARG:HH22	1.76	0.51
1:g:383:LEU:HB3	1:g:394:CYS:HB3	1.92	0.51
1:g:407:ARG:HH21	1:g:431:PRO:HD2	1.76	0.51
1:g:468:CYS:SG	1:g:469:THR:N	2.84	0.51
1:k:95:TRP:CG	1:k:222:LEU:HD12	2.46	0.51
1:l:201:ALA:H	1:l:210:GLU:CG	2.23	0.51
1:n:164:HIS:HB2	1:n:422:ARG:HH22	1.76	0.51
1:n:173:TRP:HE1	1:n:433:ASP:HB2	1.75	0.51
1:o:268:ARG:HH21	1:p:173:TRP:CD1	2.29	0.51
1:o:468:CYS:SG	1:o:469:THR:N	2.84	0.51
1:p:164:HIS:HB2	1:p:422:ARG:HH22	1.76	0.51
1:q:95:TRP:CG	1:q:222:LEU:HD12	2.46	0.51
1:q:419:LYS:NZ	1:s:539:LEU:OXT	2.43	0.51
1:r:383:LEU:HB3	1:r:394:CYS:HB3	1.92	0.51
1:t:102:GLN:NE2	1:t:104:SER:OG	2.44	0.51
1:t:268:ARG:HH21	1:u:173:TRP:CD1	2.29	0.51
1:u:164:HIS:HB2	1:u:422:ARG:HH22	1.76	0.51
1:v:102:GLN:NE2	1:v:104:SER:OG	2.43	0.51
1:v:296:THR:HG23	1:v:381:GLN:HB3	1.92	0.51
1:w:164:HIS:HD2	1:w:440:HIS:HD2	1.59	0.51
1:x:95:TRP:CG	1:x:222:LEU:HD12	2.46	0.51
1:8:140:LEU:HD12	1:8:147:THR:HB	1.92	0.51
1:A:164:HIS:HD2	1:A:440:HIS:HD2	1.59	0.51
1:A:272:ILE:HD11	1:G:313:THR:HG21	1.92	0.51
1:D:383:LEU:HB3	1:D:394:CYS:HB3	1.92	0.51
1:E:95:TRP:CG	1:E:222:LEU:HD12	2.46	0.51
1:I:383:LEU:HB3	1:I:394:CYS:HB3	1.92	0.51
1:K:102:GLN:NE2	1:K:104:SER:OG	2.43	0.51
1:K:369:ILE:HG22	1:K:525:TRP:CD1	2.46	0.51
1:M:173:TRP:HE1	1:M:433:ASP:HB2	1.75	0.51
1:M:369:ILE:HG22	1:M:525:TRP:CD1	2.46	0.51
1:Q:296:THR:HG23	1:Q:381:GLN:HB3	1.92	0.51
1:S:468:CYS:SG	1:S:469:THR:N	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:407:ARG:HH21	1:T:431:PRO:HD2	1.76	0.51
1:T:505:ASP:O	1:T:507:ILE:HG22	2.09	0.51
1:U:164:HIS:HB2	1:U:422:ARG:HH22	1.76	0.51
1:U:407:ARG:HH21	1:U:431:PRO:HD2	1.76	0.51
1:W:102:GLN:NE2	1:W:104:SER:OG	2.43	0.51
1:W:539:LEU:OXT	1:Y:419:LYS:NZ	2.44	0.51
1:X:173:TRP:HE1	1:X:433:ASP:HB2	1.75	0.51
1:3:95:TRP:CG	1:3:222:LEU:HD12	2.46	0.51
1:3:419:LYS:NZ	1:j:539:LEU:OXT	2.44	0.51
1:c:102:GLN:NE2	1:c:104:SER:OG	2.43	0.51
1:c:268:ARG:HH21	1:d:173:TRP:CD1	2.29	0.51
1:e:102:GLN:NE2	1:e:104:SER:OG	2.43	0.51
1:g:140:LEU:HD12	1:g:147:THR:HB	1.92	0.51
1:h:164:HIS:HD2	1:h:440:HIS:HD2	1.59	0.51
1:k:419:LYS:NZ	1:m:539:LEU:OXT	2.44	0.51
1:n:102:GLN:NE2	1:n:104:SER:OG	2.44	0.51
1:n:347:PRO:O	1:n:348:THR:OG1	2.22	0.51
1:o:164:HIS:HB2	1:o:422:ARG:HH22	1.76	0.51
1:p:102:GLN:NE2	1:p:104:SER:OG	2.44	0.51
1:p:383:LEU:HB3	1:p:394:CYS:HB3	1.92	0.51
1:q:164:HIS:HD2	1:q:440:HIS:HD2	1.59	0.51
1:q:539:LEU:OXT	1:r:419:LYS:NZ	2.44	0.51
1:r:539:LEU:OXT	1:s:419:LYS:NZ	2.44	0.51
1:t:164:HIS:HB2	1:t:422:ARG:HH22	1.76	0.51
1:t:201:ALA:H	1:t:210:GLU:CG	2.23	0.51
1:w:102:GLN:NE2	1:w:104:SER:OG	2.43	0.51
1:w:468:CYS:SG	1:w:469:THR:N	2.84	0.51
1:y:61:ARG:HD3	1:y:179:PRO:HD2	1.92	0.51
1:z:164:HIS:HB2	1:z:422:ARG:HH22	1.76	0.51
1:z:407:ARG:HH21	1:z:431:PRO:HD2	1.76	0.51
1:z:468:CYS:SG	1:z:469:THR:N	2.84	0.51
1:7:95:TRP:CG	1:7:222:LEU:HD12	2.46	0.51
1:7:164:HIS:HD2	1:7:440:HIS:HD2	1.59	0.51
1:B:95:TRP:CG	1:B:222:LEU:HD12	2.46	0.51
1:B:492:ARG:HA	1:I:495:THR:O	2.11	0.51
1:C:244:CYS:SG	1:C:245:GLU:N	2.79	0.51
1:C:268:ARG:HH21	1:2:173:TRP:CD1	2.29	0.51
1:D:173:TRP:CD1	1:P:268:ARG:HH21	2.29	0.51
1:F:201:ALA:H	1:F:210:GLU:CG	2.23	0.51
1:F:369:ILE:HG22	1:F:525:TRP:CD1	2.46	0.51
1:G:140:LEU:HD12	1:G:147:THR:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:164:HIS:HB2	1:G:422:ARG:HH22	1.76	0.51
1:J:102:GLN:NE2	1:J:104:SER:OG	2.43	0.51
1:J:268:ARG:HH21	1:L:173:TRP:CD1	2.29	0.51
1:J:369:ILE:HG22	1:J:525:TRP:CD1	2.46	0.51
1:L:164:HIS:HB2	1:L:422:ARG:HH22	1.76	0.51
1:M:419:LYS:NZ	1:2:539:LEU:OXT	2.44	0.51
1:N:164:HIS:HB2	1:N:422:ARG:HH22	1.76	0.51
1:N:273:ARG:HH12	1:P:304:GLN:HB2	1.76	0.51
1:O:95:TRP:CG	1:O:222:LEU:HD12	2.46	0.51
1:O:369:ILE:HG22	1:O:525:TRP:CD1	2.46	0.51
1:Q:164:HIS:HD2	1:Q:440:HIS:HD2	1.59	0.51
1:R:268:ARG:HH21	1:S:173:TRP:CD1	2.29	0.51
1:R:539:LEU:OXT	1:S:419:LYS:NZ	2.43	0.51
1:S:407:ARG:HH21	1:S:431:PRO:HD2	1.76	0.51
1:V:419:LYS:NZ	1:X:539:LEU:OXT	2.44	0.51
1:W:140:LEU:HD12	1:W:147:THR:HB	1.92	0.51
1:Y:369:ILE:HG22	1:Y:525:TRP:CD1	2.46	0.51
1:Z:164:HIS:HB2	1:Z:422:ARG:HH22	1.76	0.51
1:2:383:LEU:HB3	1:2:394:CYS:HB3	1.92	0.51
1:4:61:ARG:HH11	1:4:178:MET:HE2	1.74	0.51
1:4:383:LEU:HB3	1:4:394:CYS:HB3	1.92	0.51
1:6:140:LEU:HD12	1:6:147:THR:HB	1.92	0.51
1:c:369:ILE:HG22	1:c:525:TRP:CD1	2.46	0.51
1:e:95:TRP:CG	1:e:222:LEU:HD12	2.46	0.51
1:f:369:ILE:HG22	1:f:525:TRP:CD1	2.46	0.51
1:g:273:ARG:HH12	1:h:304:GLN:HB2	1.76	0.51
1:h:95:TRP:CG	1:h:222:LEU:HD12	2.46	0.51
1:i:369:ILE:HG22	1:i:525:TRP:CD1	2.46	0.51
1:i:407:ARG:HH21	1:i:431:PRO:HD2	1.76	0.51
1:l:369:ILE:HG22	1:l:525:TRP:CD1	2.46	0.51
1:l:407:ARG:HH21	1:l:431:PRO:HD2	1.76	0.51
1:n:273:ARG:HH12	1:o:304:GLN:HB2	1.76	0.51
1:q:201:ALA:H	1:q:210:GLU:CG	2.23	0.51
1:q:244:CYS:SG	1:q:245:GLU:N	2.79	0.51
1:q:268:ARG:HH21	1:r:173:TRP:CD1	2.29	0.51
1:s:140:LEU:HD12	1:s:147:THR:HB	1.92	0.51
1:s:369:ILE:HG22	1:s:525:TRP:CD1	2.46	0.51
1:t:164:HIS:HD2	1:t:440:HIS:HD2	1.59	0.51
1:t:369:ILE:HG22	1:t:525:TRP:CD1	2.46	0.51
1:u:95:TRP:CG	1:u:222:LEU:HD12	2.46	0.51
1:v:140:LEU:HD12	1:v:147:THR:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:164:HIS:HD2	1:v:440:HIS:HD2	1.59	0.51
1:w:173:TRP:CD1	1:x:268:ARG:HH21	2.29	0.51
1:w:419:LYS:NZ	1:x:539:LEU:OXT	2.43	0.51
1:y:369:ILE:HG22	1:y:525:TRP:CD1	2.46	0.51
1:y:419:LYS:NZ	1:7:539:LEU:OXT	2.43	0.51
1:z:296:THR:HG23	1:z:381:GLN:HB3	1.92	0.51
1:8:383:LEU:HB3	1:8:394:CYS:HB3	1.92	0.51
1:C:201:ALA:H	1:C:210:GLU:CG	2.23	0.51
1:D:102:GLN:NE2	1:D:104:SER:OG	2.44	0.51
1:D:424:ASP:HB2	1:P:406:ASP:HA	1.91	0.51
1:E:369:ILE:HG22	1:E:525:TRP:CD1	2.46	0.51
1:F:244:CYS:SG	1:F:245:GLU:N	2.79	0.51
1:H:369:ILE:HG22	1:H:525:TRP:CD1	2.46	0.51
1:J:164:HIS:HD2	1:J:440:HIS:HD2	1.59	0.51
1:J:468:CYS:SG	1:J:469:THR:N	2.83	0.51
1:K:406:ASP:HA	1:1:424:ASP:HB2	1.91	0.51
1:M:140:LEU:HD12	1:M:147:THR:HB	1.92	0.51
1:M:296:THR:HG23	1:M:381:GLN:HB3	1.92	0.51
1:N:102:GLN:NE2	1:N:104:SER:OG	2.44	0.51
1:O:468:CYS:SG	1:O:469:THR:N	2.84	0.51
1:Q:201:ALA:H	1:Q:210:GLU:CG	2.23	0.51
1:S:383:LEU:HB3	1:S:394:CYS:HB3	1.92	0.51
1:V:268:ARG:HH21	1:5:173:TRP:CD1	2.29	0.51
1:V:369:ILE:HG22	1:V:525:TRP:CD1	2.46	0.51
1:X:102:GLN:NE2	1:X:104:SER:OG	2.43	0.51
1:2:61:ARG:HD3	1:2:179:PRO:HD2	1.92	0.51
1:3:407:ARG:HH21	1:3:431:PRO:HD2	1.76	0.51
1:4:164:HIS:HB2	1:4:422:ARG:HH22	1.76	0.51
1:5:369:ILE:HG22	1:5:525:TRP:CD1	2.46	0.51
1:6:164:HIS:HB2	1:6:422:ARG:HH22	1.76	0.51
1:c:201:ALA:H	1:c:210:GLU:CG	2.23	0.51
1:c:468:CYS:SG	1:c:469:THR:N	2.83	0.51
1:g:61:ARG:HD3	1:g:179:PRO:HD2	1.92	0.51
1:h:102:GLN:NE2	1:h:104:SER:OG	2.43	0.51
1:h:383:LEU:HB3	1:h:394:CYS:HB3	1.92	0.51
1:k:173:TRP:HE1	1:k:433:ASP:HB2	1.75	0.51
1:k:407:ARG:HH21	1:k:431:PRO:HD2	1.76	0.51
1:m:369:ILE:HG22	1:m:525:TRP:CD1	2.46	0.51
1:m:407:ARG:HH21	1:m:431:PRO:HD2	1.76	0.51
1:m:468:CYS:SG	1:m:469:THR:N	2.84	0.51
1:n:268:ARG:HH21	1:o:173:TRP:CD1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:468:CYS:SG	1:n:469:THR:N	2.84	0.51
1:r:61:ARG:HD3	1:r:179:PRO:HD2	1.92	0.51
1:s:173:TRP:HE1	1:s:433:ASP:HB2	1.75	0.51
1:s:296:THR:HG23	1:s:381:GLN:HB3	1.92	0.51
1:t:244:CYS:SG	1:t:245:GLU:N	2.79	0.51
1:u:173:TRP:HE1	1:u:433:ASP:HB2	1.75	0.51
1:u:369:ILE:HG22	1:u:525:TRP:CD1	2.46	0.51
1:w:383:LEU:HB3	1:w:394:CYS:HB3	1.92	0.51
1:y:95:TRP:CG	1:y:222:LEU:HD12	2.46	0.51
1:z:61:ARG:HD3	1:z:179:PRO:HD2	1.92	0.51
1:7:468:CYS:SG	1:7:469:THR:N	2.83	0.51
1:8:61:ARG:HH11	1:8:178:MET:HE2	1.74	0.51
1:A:173:TRP:CD1	1:I:268:ARG:HH21	2.29	0.51
1:A:419:LYS:NZ	1:I:539:LEU:OXT	2.43	0.51
1:B:407:ARG:HH21	1:B:431:PRO:HD2	1.76	0.51
1:C:492:ARG:HA	1:L:495:THR:O	2.11	0.51
1:D:95:TRP:CG	1:D:222:LEU:HD12	2.46	0.51
1:E:268:ARG:HH21	1:Q:173:TRP:CD1	2.29	0.51
1:E:296:THR:HG23	1:E:381:GLN:HB3	1.92	0.51
1:H:173:TRP:CD1	1:Y:268:ARG:HH21	2.29	0.51
1:H:304:GLN:HB2	1:Y:273:ARG:HH12	1.76	0.51
1:J:95:TRP:CG	1:J:222:LEU:HD12	2.46	0.51
1:K:383:LEU:HB3	1:K:394:CYS:HB3	1.92	0.51
1:K:419:LYS:NZ	1:8:539:LEU:OXT	2.44	0.51
1:N:164:HIS:HD2	1:N:440:HIS:HD2	1.59	0.51
1:N:268:ARG:HH21	1:P:173:TRP:CD1	2.29	0.51
1:N:495:THR:O	1:O:492:ARG:HA	2.11	0.51
1:O:61:ARG:HD3	1:O:179:PRO:HD2	1.92	0.51
1:O:102:GLN:NE2	1:O:104:SER:OG	2.43	0.51
1:O:383:LEU:HB3	1:O:394:CYS:HB3	1.92	0.51
1:Q:140:LEU:HD12	1:Q:147:THR:HB	1.92	0.51
1:R:304:GLN:HB2	1:U:273:ARG:HH12	1.76	0.51
1:S:539:LEU:OXT	1:U:419:LYS:NZ	2.44	0.51
1:U:95:TRP:CG	1:U:222:LEU:HD12	2.46	0.51
1:U:495:THR:O	1:V:492:ARG:HA	2.11	0.51
1:W:95:TRP:CG	1:W:222:LEU:HD12	2.46	0.51
1:Z:95:TRP:CG	1:Z:222:LEU:HD12	2.46	0.51
1:Z:273:ARG:HH12	1:x:304:GLN:HB2	1.76	0.51
1:Z:419:LYS:NZ	1:w:539:LEU:OXT	2.44	0.51
1:1:347:PRO:O	1:1:348:THR:OG1	2.23	0.51
1:2:468:CYS:SG	1:2:469:THR:N	2.83	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:468:CYS:SG	1:3:469:THR:N	2.84	0.51
1:4:539:LEU:OXT	1:f:419:LYS:NZ	2.44	0.51
1:d:495:THR:O	1:q:492:ARG:HA	2.11	0.51
1:f:383:LEU:HB3	1:f:394:CYS:HB3	1.92	0.51
1:f:407:ARG:HH21	1:f:431:PRO:HD2	1.76	0.51
1:g:102:GLN:NE2	1:g:104:SER:OG	2.43	0.51
1:g:296:THR:HG23	1:g:381:GLN:HB3	1.92	0.51
1:h:369:ILE:HG22	1:h:525:TRP:CD1	2.46	0.51
1:h:468:CYS:SG	1:h:469:THR:N	2.84	0.51
1:j:407:ARG:HH21	1:j:431:PRO:HD2	1.76	0.51
1:j:468:CYS:SG	1:j:469:THR:N	2.84	0.51
1:k:468:CYS:SG	1:k:469:THR:N	2.84	0.51
1:m:164:HIS:HB2	1:m:422:ARG:HH22	1.76	0.51
1:n:164:HIS:HD2	1:n:440:HIS:HD2	1.59	0.51
1:r:164:HIS:HB2	1:r:422:ARG:HH22	1.76	0.51
1:r:468:CYS:SG	1:r:469:THR:N	2.84	0.51
1:u:268:ARG:HH21	1:v:173:TRP:CD1	2.29	0.51
1:u:296:THR:HG23	1:u:381:GLN:HB3	1.92	0.51
1:v:347:PRO:O	1:v:348:THR:OG1	2.23	0.51
1:w:407:ARG:HH21	1:w:431:PRO:HD2	1.76	0.51
1:y:173:TRP:CD1	1:7:268:ARG:HH21	2.29	0.51
1:y:383:LEU:HB3	1:y:394:CYS:HB3	1.92	0.51
1:y:468:CYS:SG	1:y:469:THR:N	2.84	0.51
1:z:102:GLN:NE2	1:z:104:SER:OG	2.43	0.51
1:z:273:ARG:HH12	1:7:304:GLN:HB2	1.76	0.51
1:7:102:GLN:NE2	1:7:104:SER:OG	2.43	0.51
1:7:369:ILE:HG22	1:7:525:TRP:CD1	2.46	0.51
1:7:383:LEU:HB3	1:7:394:CYS:HB3	1.92	0.51
1:8:347:PRO:O	1:8:348:THR:OG1	2.23	0.51
1:8:369:ILE:HG22	1:8:525:TRP:CD1	2.46	0.51
1:A:173:TRP:HE1	1:A:433:ASP:HB2	1.75	0.50
1:E:173:TRP:HE1	1:E:433:ASP:HB2	1.75	0.50
1:F:95:TRP:CG	1:F:222:LEU:HD12	2.46	0.50
1:F:173:TRP:CD1	1:Q:268:ARG:HH21	2.29	0.50
1:J:164:HIS:HB2	1:J:422:ARG:HH22	1.76	0.50
1:K:407:ARG:HH21	1:K:431:PRO:HD2	1.76	0.50
1:L:407:ARG:HH21	1:L:431:PRO:HD2	1.76	0.50
1:N:468:CYS:SG	1:N:469:THR:N	2.84	0.50
1:N:492:ARG:HA	1:O:495:THR:O	2.11	0.50
1:O:140:LEU:HD12	1:O:147:THR:HB	1.92	0.50
1:P:61:ARG:HD3	1:P:179:PRO:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:492:ARG:HA	1:R:495:THR:O	2.11	0.50
1:R:61:ARG:HD3	1:R:179:PRO:HD2	1.92	0.50
1:S:369:ILE:HG22	1:S:525:TRP:CD1	2.46	0.50
1:T:95:TRP:CG	1:T:222:LEU:HD12	2.46	0.50
1:T:347:PRO:O	1:T:348:THR:OG1	2.23	0.50
1:T:424:ASP:HB2	1:f:406:ASP:HA	1.91	0.50
1:V:273:ARG:HH12	1:5:304:GLN:HB2	1.76	0.50
1:W:369:ILE:HG22	1:W:525:TRP:CD1	2.46	0.50
1:X:95:TRP:CG	1:X:222:LEU:HD12	2.46	0.50
1:X:369:ILE:HG22	1:X:525:TRP:CD1	2.46	0.50
1:1:95:TRP:CG	1:1:222:LEU:HD12	2.46	0.50
1:2:164:HIS:HB2	1:2:422:ARG:HH22	1.76	0.50
1:4:95:TRP:CG	1:4:222:LEU:HD12	2.46	0.50
1:4:347:PRO:O	1:4:348:THR:OG1	2.23	0.50
1:a:173:TRP:CD1	1:b:268:ARG:HH21	2.29	0.50
1:c:95:TRP:CG	1:c:222:LEU:HD12	2.46	0.50
1:c:164:HIS:HD2	1:c:440:HIS:HD2	1.59	0.50
1:c:164:HIS:HB2	1:c:422:ARG:HH22	1.76	0.50
1:d:407:ARG:HH21	1:d:431:PRO:HD2	1.76	0.50
1:e:407:ARG:HH21	1:e:431:PRO:HD2	1.76	0.50
1:g:495:THR:O	1:l:492:ARG:HA	2.11	0.50
1:h:61:ARG:HD3	1:h:179:PRO:HD2	1.92	0.50
1:j:369:ILE:HG22	1:j:525:TRP:CD1	2.46	0.50
1:l:273:ARG:HH12	1:m:304:GLN:HB2	1.76	0.50
1:n:296:THR:HG23	1:n:381:GLN:HB3	1.92	0.50
1:o:407:ARG:HH21	1:o:431:PRO:HD2	1.76	0.50
1:p:95:TRP:CG	1:p:222:LEU:HD12	2.46	0.50
1:p:369:ILE:HG22	1:p:525:TRP:CD1	2.46	0.50
1:s:164:HIS:HB2	1:s:422:ARG:HH22	1.76	0.50
1:t:173:TRP:CD1	1:v:268:ARG:HH21	2.29	0.50
1:v:201:ALA:H	1:v:210:GLU:CG	2.23	0.50
1:x:164:HIS:HB2	1:x:422:ARG:HH22	1.76	0.50
1:x:201:ALA:H	1:x:210:GLU:CG	2.23	0.50
1:y:102:GLN:NE2	1:y:104:SER:OG	2.43	0.50
1:y:140:LEU:HD12	1:y:147:THR:HB	1.92	0.50
1:z:140:LEU:HD12	1:z:147:THR:HB	1.92	0.50
1:8:164:HIS:HB2	1:8:422:ARG:HH22	1.76	0.50
1:A:268:ARG:HH21	1:G:173:TRP:CD1	2.29	0.50
1:B:173:TRP:CD1	1:L:268:ARG:HH21	2.30	0.50
1:C:468:CYS:SG	1:C:469:THR:N	2.84	0.50
1:E:102:GLN:NE2	1:E:104:SER:OG	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:535:ILE:HG22	1:F:536:ASN:N	2.26	0.50
1:H:296:THR:HG23	1:H:381:GLN:HB3	1.92	0.50
1:J:539:LEU:OXT	1:L:419:LYS:NZ	2.44	0.50
1:K:173:TRP:CD1	1:8:268:ARG:HH21	2.29	0.50
1:M:164:HIS:HB2	1:M:422:ARG:HH22	1.76	0.50
1:N:347:PRO:O	1:N:348:THR:OG1	2.23	0.50
1:O:296:THR:HG23	1:O:381:GLN:HB3	1.92	0.50
1:P:296:THR:HG23	1:P:381:GLN:HB3	1.92	0.50
1:R:164:HIS:HB2	1:R:422:ARG:HH22	1.76	0.50
1:U:468:CYS:SG	1:U:469:THR:N	2.83	0.50
1:W:61:ARG:HD3	1:W:179:PRO:HD2	1.92	0.50
1:W:164:HIS:HB2	1:W:422:ARG:HH22	1.76	0.50
1:Y:492:ARG:HA	1:Z:495:THR:O	2.11	0.50
1:Z:164:HIS:HD2	1:Z:440:HIS:HD2	1.59	0.50
1:3:140:LEU:HD12	1:3:147:THR:HB	1.92	0.50
1:4:369:ILE:HG22	1:4:525:TRP:CD1	2.46	0.50
1:6:468:CYS:SG	1:6:469:THR:N	2.83	0.50
1:a:419:LYS:NZ	1:b:539:LEU:OXT	2.43	0.50
1:a:468:CYS:SG	1:a:469:THR:N	2.84	0.50
1:b:407:ARG:HH21	1:b:431:PRO:HD2	1.76	0.50
1:d:61:ARG:HD3	1:d:179:PRO:HD2	1.92	0.50
1:d:268:ARG:HH21	1:e:173:TRP:CD1	2.30	0.50
1:e:468:CYS:SG	1:e:469:THR:N	2.84	0.50
1:i:95:TRP:CG	1:i:222:LEU:HD12	2.46	0.50
1:i:383:LEU:HB3	1:i:394:CYS:HB3	1.92	0.50
1:j:164:HIS:HB2	1:j:422:ARG:HH22	1.76	0.50
1:m:95:TRP:CG	1:m:222:LEU:HD12	2.46	0.50
1:o:61:ARG:HD3	1:o:179:PRO:HD2	1.92	0.50
1:o:406:ASP:HA	1:p:424:ASP:HB2	1.91	0.50
1:o:495:THR:O	1:u:492:ARG:HA	2.11	0.50
1:q:407:ARG:HH21	1:q:431:PRO:HD2	1.76	0.50
1:s:407:ARG:HH21	1:s:431:PRO:HD2	1.76	0.50
1:t:95:TRP:CG	1:t:222:LEU:HD12	2.46	0.50
1:t:140:LEU:HD12	1:t:147:THR:HB	1.92	0.50
1:t:535:ILE:HG22	1:t:536:ASN:N	2.26	0.50
1:v:492:ARG:HA	1:x:495:THR:O	2.11	0.50
1:w:369:ILE:HG22	1:w:525:TRP:CD1	2.46	0.50
1:x:369:ILE:HG22	1:x:525:TRP:CD1	2.46	0.50
1:y:268:ARG:HH21	1:z:173:TRP:CD1	2.29	0.50
1:7:61:ARG:HD3	1:7:179:PRO:HD2	1.92	0.50
1:8:95:TRP:CG	1:8:222:LEU:HD12	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:GLY:O	1:A:278:THR:OG1	2.24	0.50
1:A:468:CYS:SG	1:A:469:THR:N	2.83	0.50
1:C:347:PRO:O	1:C:348:THR:OG1	2.23	0.50
1:C:495:THR:O	1:L:492:ARG:HA	2.11	0.50
1:D:369:ILE:HG22	1:D:525:TRP:CD1	2.46	0.50
1:E:492:ARG:HA	1:P:495:THR:O	2.11	0.50
1:F:140:LEU:HD12	1:F:147:THR:HB	1.92	0.50
1:F:173:TRP:HE1	1:F:433:ASP:HB2	1.75	0.50
1:F:468:CYS:SG	1:F:469:THR:N	2.84	0.50
1:I:468:CYS:SG	1:I:469:THR:N	2.84	0.50
1:J:201:ALA:H	1:J:210:GLU:CG	2.23	0.50
1:L:61:ARG:HD3	1:L:179:PRO:HD2	1.92	0.50
1:L:369:ILE:HG22	1:L:525:TRP:CD1	2.46	0.50
1:M:407:ARG:HH21	1:M:431:PRO:HD2	1.76	0.50
1:N:296:THR:HG23	1:N:381:GLN:HB3	1.92	0.50
1:O:407:ARG:HH21	1:O:431:PRO:HD2	1.76	0.50
1:P:407:ARG:HH21	1:P:431:PRO:HD2	1.76	0.50
1:Q:95:TRP:CG	1:Q:222:LEU:HD12	2.46	0.50
1:R:201:ALA:H	1:R:210:GLU:CG	2.23	0.50
1:R:383:LEU:HB3	1:R:394:CYS:HB3	1.92	0.50
1:S:95:TRP:CG	1:S:222:LEU:HD12	2.46	0.50
1:T:304:GLN:HB2	1:f:273:ARG:HH12	1.76	0.50
1:U:201:ALA:H	1:U:210:GLU:CG	2.23	0.50
1:W:492:ARG:HA	1:X:495:THR:O	2.11	0.50
1:X:61:ARG:HD3	1:X:179:PRO:HD2	1.92	0.50
1:X:164:HIS:HB2	1:X:422:ARG:HH22	1.76	0.50
1:Z:173:TRP:CD1	1:w:268:ARG:HH21	2.29	0.50
1:Z:304:GLN:HB2	1:w:273:ARG:HH12	1.76	0.50
1:Z:468:CYS:SG	1:Z:469:THR:N	2.84	0.50
1:3:296:THR:HG23	1:3:381:GLN:HB3	1.92	0.50
1:4:268:ARG:HH21	1:f:173:TRP:CD1	2.29	0.50
1:4:407:ARG:HH21	1:4:431:PRO:HD2	1.76	0.50
1:5:296:THR:HG23	1:5:381:GLN:HB3	1.92	0.50
1:6:406:ASP:HA	1:b:424:ASP:HB2	1.91	0.50
1:6:407:ARG:HH21	1:6:431:PRO:HD2	1.76	0.50
1:6:419:LYS:NZ	1:a:539:LEU:OXT	2.43	0.50
1:a:173:TRP:HE1	1:a:433:ASP:HB2	1.75	0.50
1:b:164:HIS:HD2	1:b:440:HIS:HD2	1.59	0.50
1:b:369:ILE:HG22	1:b:525:TRP:CD1	2.46	0.50
1:b:468:CYS:SG	1:b:469:THR:N	2.84	0.50
1:b:495:THR:O	1:e:492:ARG:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:539:LEU:OXT	1:d:419:LYS:NZ	2.44	0.50
1:d:369:ILE:HG22	1:d:525:TRP:CD1	2.46	0.50
1:i:273:ARG:HH12	1:j:304:GLN:HB2	1.76	0.50
1:i:492:ARG:HA	1:z:495:THR:O	2.11	0.50
1:i:539:LEU:OXT	1:j:419:LYS:NZ	2.44	0.50
1:j:95:TRP:CG	1:j:222:LEU:HD12	2.46	0.50
1:j:535:ILE:HG22	1:j:536:ASN:N	2.26	0.50
1:k:539:LEU:OXT	1:l:419:LYS:NZ	2.44	0.50
1:l:164:HIS:HD2	1:l:440:HIS:HD2	1.59	0.50
1:l:383:LEU:HB3	1:l:394:CYS:HB3	1.92	0.50
1:n:369:ILE:HG22	1:n:525:TRP:CD1	2.46	0.50
1:o:492:ARG:HA	1:u:495:THR:O	2.11	0.50
1:p:296:THR:HG23	1:p:381:GLN:HB3	1.92	0.50
1:t:468:CYS:SG	1:t:469:THR:N	2.84	0.50
1:u:102:GLN:NE2	1:u:104:SER:OG	2.43	0.50
1:x:61:ARG:HD3	1:x:179:PRO:HD2	1.92	0.50
1:y:296:THR:HG23	1:y:381:GLN:HB3	1.92	0.50
1:y:407:ARG:HH21	1:y:431:PRO:HD2	1.76	0.50
1:8:407:ARG:HH21	1:8:431:PRO:HD2	1.76	0.50
1:A:164:HIS:HB2	1:A:422:ARG:HH22	1.76	0.50
1:B:369:ILE:HG22	1:B:525:TRP:CD1	2.46	0.50
1:B:383:LEU:HB3	1:B:394:CYS:HB3	1.92	0.50
1:B:468:CYS:SG	1:B:469:THR:N	2.84	0.50
1:C:164:HIS:HB2	1:C:422:ARG:HH22	1.76	0.50
1:C:407:ARG:HH21	1:C:431:PRO:HD2	1.76	0.50
1:D:296:THR:HG23	1:D:381:GLN:HB3	1.92	0.50
1:G:95:TRP:CG	1:G:222:LEU:HD12	2.46	0.50
1:G:407:ARG:HH21	1:G:431:PRO:HD2	1.76	0.50
1:G:468:CYS:SG	1:G:469:THR:N	2.84	0.50
1:H:273:ARG:HH12	1:W:304:GLN:HB2	1.76	0.50
1:H:419:LYS:NZ	1:Y:539:LEU:OXT	2.43	0.50
1:I:164:HIS:HD2	1:I:440:HIS:HD2	1.59	0.50
1:I:407:ARG:HH21	1:I:431:PRO:HD2	1.76	0.50
1:K:201:ALA:H	1:K:210:GLU:CG	2.23	0.50
1:K:273:ARG:HH12	1:l:304:GLN:HB2	1.76	0.50
1:N:369:ILE:HG22	1:N:525:TRP:CD1	2.46	0.50
1:P:91:VAL:HG22	1:P:193:TYR:O	2.12	0.50
1:Q:347:PRO:O	1:Q:348:THR:OG1	2.23	0.50
1:R:140:LEU:HD12	1:R:147:THR:HB	1.92	0.50
1:R:369:ILE:HG22	1:R:525:TRP:CD1	2.46	0.50
1:S:268:ARG:HH21	1:U:173:TRP:CD1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:273:ARG:HH12	1:U:304:GLN:HB2	1.76	0.50
1:V:304:GLN:HB2	1:X:273:ARG:HH12	1.77	0.50
1:W:495:THR:O	1:X:492:ARG:HA	2.12	0.50
1:X:468:CYS:SG	1:X:469:THR:N	2.84	0.50
1:Y:164:HIS:HB2	1:Y:422:ARG:HH22	1.76	0.50
1:3:386:GLY:HA2	1:3:391:TYR:CD1	2.47	0.50
1:5:95:TRP:CG	1:5:222:LEU:HD12	2.46	0.50
1:5:244:CYS:SG	1:5:245:GLU:N	2.79	0.50
1:5:495:THR:O	1:6:492:ARG:HA	2.11	0.50
1:6:95:TRP:CG	1:6:222:LEU:HD12	2.46	0.50
1:c:61:ARG:HD3	1:c:179:PRO:HD2	1.92	0.50
1:d:492:ARG:HA	1:q:495:THR:O	2.11	0.50
1:e:164:HIS:HB2	1:e:422:ARG:HH22	1.76	0.50
1:e:386:GLY:HA2	1:e:391:TYR:CD1	2.47	0.50
1:h:201:ALA:H	1:h:210:GLU:CG	2.23	0.50
1:h:386:GLY:HA2	1:h:391:TYR:CD1	2.47	0.50
1:k:296:THR:HG23	1:k:381:GLN:HB3	1.92	0.50
1:k:386:GLY:HA2	1:k:391:TYR:CD1	2.47	0.50
1:l:406:ASP:HA	1:m:424:ASP:HB2	1.91	0.50
1:o:296:THR:HG23	1:o:381:GLN:HB3	1.92	0.50
1:q:164:HIS:HB2	1:q:422:ARG:HH22	1.76	0.50
1:q:468:CYS:SG	1:q:469:THR:N	2.84	0.50
1:t:173:TRP:HE1	1:t:433:ASP:HB2	1.75	0.50
1:u:164:HIS:HD2	1:u:440:HIS:HD2	1.59	0.50
1:u:273:ARG:HH12	1:v:304:GLN:HB2	1.76	0.50
1:v:95:TRP:CG	1:v:222:LEU:HD12	2.46	0.50
1:w:95:TRP:CG	1:w:222:LEU:HD12	2.46	0.50
1:x:140:LEU:HD12	1:x:147:THR:HB	1.92	0.50
1:y:304:GLN:HB2	1:7:273:ARG:HH12	1.77	0.50
1:7:492:ARG:HA	1:8:495:THR:O	2.11	0.50
1:B:304:GLN:HB2	1:L:273:ARG:HH12	1.76	0.50
1:B:386:GLY:HA2	1:B:391:TYR:CD1	2.47	0.50
1:C:173:TRP:CD1	1:M:268:ARG:HH21	2.29	0.50
1:E:91:VAL:HG22	1:E:193:TYR:O	2.12	0.50
1:E:164:HIS:HD2	1:E:440:HIS:HD2	1.59	0.50
1:E:304:GLN:HB2	1:F:273:ARG:HH12	1.76	0.50
1:E:495:THR:O	1:P:492:ARG:HA	2.11	0.50
1:E:539:LEU:OXT	1:Q:419:LYS:NZ	2.43	0.50
1:H:95:TRP:CG	1:H:222:LEU:HD12	2.46	0.50
1:H:244:CYS:SG	1:H:245:GLU:N	2.79	0.50
1:I:90:CYS:SG	1:I:91:VAL:N	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:369:ILE:HG22	1:I:525:TRP:CD1	2.46	0.50
1:J:61:ARG:HD3	1:J:179:PRO:HD2	1.92	0.50
1:J:535:ILE:HG22	1:J:536:ASN:N	2.26	0.50
1:S:386:GLY:HA2	1:S:391:TYR:CD1	2.47	0.50
1:S:492:ARG:HA	1:T:495:THR:O	2.11	0.50
1:T:268:ARG:HH21	1:4:173:TRP:CD1	2.30	0.50
1:U:164:HIS:HD2	1:U:440:HIS:HD2	1.59	0.50
1:V:173:TRP:CD1	1:X:268:ARG:HH21	2.29	0.50
1:X:304:GLN:HB2	1:5:273:ARG:HH12	1.76	0.50
1:Y:201:ALA:H	1:Y:210:GLU:CG	2.23	0.50
1:Y:383:LEU:HB3	1:Y:394:CYS:HB3	1.92	0.50
1:1:492:ARG:HA	1:w:495:THR:O	2.11	0.50
1:1:495:THR:O	1:w:492:ARG:HA	2.11	0.50
1:2:492:ARG:HA	1:3:495:THR:O	2.11	0.50
1:5:492:ARG:HA	1:6:495:THR:O	2.11	0.50
1:a:164:HIS:HB2	1:a:422:ARG:HH22	1.76	0.50
1:a:369:ILE:HG22	1:a:525:TRP:CD1	2.46	0.50
1:b:90:CYS:SG	1:b:91:VAL:N	2.79	0.50
1:c:386:GLY:HA2	1:c:391:TYR:CD1	2.47	0.50
1:c:535:ILE:HG22	1:c:536:ASN:N	2.26	0.50
1:d:386:GLY:HA2	1:d:391:TYR:CD1	2.47	0.50
1:e:369:ILE:HG22	1:e:525:TRP:CD1	2.46	0.50
1:f:201:ALA:H	1:f:210:GLU:CG	2.23	0.50
1:g:95:TRP:CG	1:g:222:LEU:HD12	2.46	0.50
1:g:369:ILE:HG22	1:g:525:TRP:CD1	2.46	0.50
1:i:164:HIS:HD2	1:i:440:HIS:HD2	1.59	0.50
1:i:406:ASP:HA	1:j:424:ASP:HB2	1.92	0.50
1:j:128:HIS:HD2	1:j:239:ASN:OD1	1.95	0.50
1:j:140:LEU:HD12	1:j:147:THR:HB	1.92	0.50
1:k:140:LEU:HD12	1:k:147:THR:HB	1.92	0.50
1:k:164:HIS:HD2	1:k:440:HIS:HD2	1.59	0.50
1:k:495:THR:O	1:r:492:ARG:HA	2.12	0.50
1:l:91:VAL:HG22	1:l:193:TYR:O	2.12	0.50
1:l:95:TRP:CG	1:l:222:LEU:HD12	2.46	0.50
1:l:539:LEU:OXT	1:m:419:LYS:NZ	2.44	0.50
1:m:128:HIS:HD2	1:m:239:ASN:OD1	1.95	0.50
1:m:535:ILE:HG22	1:m:536:ASN:N	2.26	0.50
1:o:91:VAL:HG22	1:o:193:TYR:O	2.12	0.50
1:o:383:LEU:HB3	1:o:394:CYS:HB3	1.92	0.50
1:q:173:TRP:CD1	1:s:268:ARG:HH21	2.29	0.50
1:w:164:HIS:HB2	1:w:422:ARG:HH22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:383:LEU:HB3	1:x:394:CYS:HB3	1.92	0.50
1:z:95:TRP:CG	1:z:222:LEU:HD12	2.46	0.50
1:A:128:HIS:HD2	1:A:239:ASN:OD1	1.95	0.50
1:B:61:ARG:HD3	1:B:179:PRO:HD2	1.92	0.50
1:B:91:VAL:HG22	1:B:193:TYR:O	2.12	0.50
1:B:140:LEU:HD12	1:B:147:THR:HB	1.92	0.50
1:B:164:HIS:HB2	1:B:422:ARG:HH22	1.76	0.50
1:B:419:LYS:NZ	1:L:539:LEU:OXT	2.44	0.50
1:C:369:ILE:HG22	1:C:525:TRP:CD1	2.46	0.50
1:D:91:VAL:HG22	1:D:193:TYR:O	2.12	0.50
1:E:273:ARG:HH12	1:Q:304:GLN:HB2	1.76	0.50
1:F:296:THR:HG23	1:F:381:GLN:HB3	1.92	0.50
1:G:91:VAL:HG22	1:G:193:TYR:O	2.12	0.50
1:J:386:GLY:HA2	1:J:391:TYR:CD1	2.47	0.50
1:K:90:CYS:SG	1:K:91:VAL:N	2.79	0.50
1:L:386:GLY:HA2	1:L:391:TYR:CD1	2.47	0.50
1:S:495:THR:O	1:T:492:ARG:HA	2.11	0.50
1:T:102:GLN:NE2	1:T:104:SER:OG	2.44	0.50
1:T:419:LYS:NZ	1:f:539:LEU:OXT	2.44	0.50
1:U:128:HIS:HD2	1:U:239:ASN:OD1	1.95	0.50
1:V:164:HIS:HB2	1:V:422:ARG:HH22	1.76	0.50
1:V:201:ALA:H	1:V:210:GLU:CG	2.23	0.50
1:V:383:LEU:HB3	1:V:394:CYS:HB3	1.92	0.50
1:W:268:ARG:HH21	1:Y:173:TRP:CD1	2.29	0.50
1:W:273:ARG:HH12	1:Y:304:GLN:HB2	1.77	0.50
1:W:468:CYS:SG	1:W:469:THR:N	2.84	0.50
1:X:535:ILE:HG22	1:X:536:ASN:N	2.26	0.50
1:Y:407:ARG:HH21	1:Y:431:PRO:HD2	1.76	0.50
1:Z:128:HIS:HD2	1:Z:239:ASN:OD1	1.95	0.50
1:3:91:VAL:HG22	1:3:193:TYR:O	2.12	0.50
1:3:164:HIS:HD2	1:3:440:HIS:HD2	1.59	0.50
1:4:495:THR:O	1:h:492:ARG:HA	2.12	0.50
1:a:91:VAL:HG22	1:a:193:TYR:O	2.12	0.50
1:c:492:ARG:HA	1:f:495:THR:O	2.11	0.50
1:d:273:ARG:HH12	1:e:304:GLN:HB2	1.76	0.50
1:d:539:LEU:OXT	1:e:419:LYS:NZ	2.44	0.50
1:e:91:VAL:HG22	1:e:193:TYR:O	2.12	0.50
1:e:383:LEU:HB3	1:e:394:CYS:HB3	1.92	0.50
1:f:128:HIS:HD2	1:f:239:ASN:OD1	1.95	0.50
1:i:91:VAL:HG22	1:i:193:TYR:O	2.12	0.50
1:i:268:ARG:HH21	1:j:173:TRP:CD1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:61:ARG:HD3	1:j:179:PRO:HD2	1.92	0.50
1:j:383:LEU:HB3	1:j:394:CYS:HB3	1.92	0.50
1:l:268:ARG:HH21	1:m:173:TRP:CD1	2.29	0.50
1:m:383:LEU:HB3	1:m:394:CYS:HB3	1.92	0.50
1:n:495:THR:O	1:y:492:ARG:HA	2.12	0.50
1:o:95:TRP:CG	1:o:222:LEU:HD12	2.46	0.50
1:p:140:LEU:HD12	1:p:147:THR:HB	1.92	0.50
1:q:369:ILE:HG22	1:q:525:TRP:CD1	2.46	0.50
1:r:407:ARG:HH21	1:r:431:PRO:HD2	1.76	0.50
1:s:386:GLY:HA2	1:s:391:TYR:CD1	2.47	0.50
1:u:91:VAL:HG22	1:u:193:TYR:O	2.12	0.50
1:u:128:HIS:HD2	1:u:239:ASN:OD1	1.95	0.50
1:w:140:LEU:HD12	1:w:147:THR:HB	1.92	0.50
1:w:386:GLY:HA2	1:w:391:TYR:CD1	2.47	0.50
1:z:268:ARG:HH21	1:7:173:TRP:CD1	2.29	0.50
1:z:369:ILE:HG22	1:z:525:TRP:CD1	2.46	0.50
1:7:201:ALA:H	1:7:210:GLU:CG	2.23	0.50
1:7:386:GLY:HA2	1:7:391:TYR:CD1	2.47	0.50
1:7:407:ARG:HH21	1:7:431:PRO:HD2	1.76	0.50
1:A:91:VAL:HG22	1:A:193:TYR:O	2.12	0.50
1:A:369:ILE:HG22	1:A:525:TRP:CD1	2.46	0.50
1:A:407:ARG:HH21	1:A:431:PRO:HD2	1.76	0.50
1:E:128:HIS:HD2	1:E:239:ASN:OD1	1.95	0.50
1:F:128:HIS:HD2	1:F:239:ASN:OD1	1.95	0.50
1:H:468:CYS:SG	1:H:469:THR:N	2.84	0.50
1:J:273:ARG:HH12	1:L:304:GLN:HB2	1.76	0.50
1:J:492:ARG:HA	1:K:495:THR:O	2.12	0.50
1:K:128:HIS:HD2	1:K:239:ASN:OD1	1.95	0.50
1:L:276:GLY:O	1:L:278:THR:OG1	2.24	0.50
1:M:386:GLY:HA2	1:M:391:TYR:CD1	2.47	0.50
1:M:535:ILE:HG22	1:M:536:ASN:N	2.26	0.50
1:O:91:VAL:HG22	1:O:193:TYR:O	2.12	0.50
1:O:158:ILE:HD12	1:O:230:LEU:HD12	1.94	0.50
1:O:273:ARG:HH12	1:g:304:GLN:HB2	1.76	0.50
1:P:95:TRP:CG	1:P:222:LEU:HD12	2.46	0.50
1:P:128:HIS:HD2	1:P:239:ASN:OD1	1.95	0.50
1:P:383:LEU:HB3	1:P:394:CYS:HB3	1.92	0.50
1:R:407:ARG:HH21	1:R:431:PRO:HD2	1.76	0.50
1:S:128:HIS:HD2	1:S:239:ASN:OD1	1.95	0.50
1:S:164:HIS:HB2	1:S:422:ARG:HH22	1.76	0.50
1:T:91:VAL:HG22	1:T:193:TYR:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:173:TRP:CD1	1:f:268:ARG:HH21	2.29	0.50
1:T:386:GLY:HA2	1:T:391:TYR:CD1	2.47	0.50
1:U:492:ARG:HA	1:V:495:THR:O	2.12	0.50
1:V:61:ARG:HD3	1:V:179:PRO:HD2	1.92	0.50
1:V:95:TRP:CG	1:V:222:LEU:HD12	2.46	0.50
1:V:539:LEU:OXT	1:5:419:LYS:NZ	2.44	0.50
1:W:386:GLY:HA2	1:W:391:TYR:CD1	2.47	0.50
1:W:535:ILE:HG22	1:W:536:ASN:N	2.26	0.50
1:X:386:GLY:HA2	1:X:391:TYR:CD1	2.47	0.50
1:Y:95:TRP:CG	1:Y:222:LEU:HD12	2.46	0.50
1:1:91:VAL:HG22	1:1:193:TYR:O	2.12	0.50
1:1:102:GLN:NE2	1:1:104:SER:OG	2.44	0.50
1:1:268:ARG:HH21	1:8:173:TRP:CD1	2.30	0.50
1:2:386:GLY:HA2	1:2:391:TYR:CD1	2.47	0.50
1:3:164:HIS:HB2	1:3:422:ARG:HH22	1.76	0.50
1:4:61:ARG:HD3	1:4:179:PRO:HD2	1.92	0.50
1:4:91:VAL:HG22	1:4:193:TYR:O	2.12	0.50
1:4:128:HIS:HD2	1:4:239:ASN:OD1	1.95	0.50
1:4:386:GLY:HA2	1:4:391:TYR:CD1	2.47	0.50
1:6:91:VAL:HG22	1:6:193:TYR:O	2.12	0.50
1:a:128:HIS:HD2	1:a:239:ASN:OD1	1.95	0.50
1:a:495:THR:O	1:t:492:ARG:HA	2.11	0.50
1:c:273:ARG:HH12	1:d:304:GLN:HB2	1.76	0.50
1:e:61:ARG:HD3	1:e:179:PRO:HD2	1.92	0.50
1:e:128:HIS:HD2	1:e:239:ASN:OD1	1.95	0.50
1:g:268:ARG:HH21	1:h:173:TRP:CD1	2.29	0.50
1:k:91:VAL:HG22	1:k:193:TYR:O	2.12	0.50
1:k:304:GLN:HB2	1:m:273:ARG:HH12	1.76	0.50
1:l:164:HIS:HB2	1:l:422:ARG:HH22	1.76	0.50
1:m:140:LEU:HD12	1:m:147:THR:HB	1.92	0.50
1:n:383:LEU:HB3	1:n:394:CYS:HB3	1.92	0.50
1:o:128:HIS:HD2	1:o:239:ASN:OD1	1.95	0.50
1:p:91:VAL:HG22	1:p:193:TYR:O	2.12	0.50
1:p:164:HIS:HD2	1:p:440:HIS:HD2	1.59	0.50
1:p:407:ARG:HH21	1:p:431:PRO:HD2	1.76	0.50
1:q:347:PRO:O	1:q:348:THR:OG1	2.23	0.50
1:t:128:HIS:HD2	1:t:239:ASN:OD1	1.95	0.50
1:t:273:ARG:HH12	1:u:304:GLN:HB2	1.76	0.50
1:u:407:ARG:HH21	1:u:431:PRO:HD2	1.76	0.50
1:u:539:LEU:OXT	1:v:419:LYS:NZ	2.44	0.50
1:z:164:HIS:HD2	1:z:440:HIS:HD2	1.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:91:VAL:HG22	1:8:193:TYR:O	2.12	0.50
1:8:128:HIS:HD2	1:8:239:ASN:OD1	1.95	0.50
1:A:95:TRP:CG	1:A:222:LEU:HD12	2.46	0.50
1:A:495:THR:O	1:F:492:ARG:HA	2.11	0.50
1:B:128:HIS:HD2	1:B:239:ASN:OD1	1.95	0.50
1:B:539:LEU:OXT	1:J:419:LYS:NZ	2.44	0.50
1:D:164:HIS:HD2	1:D:440:HIS:HD2	1.59	0.50
1:D:492:ARG:HA	1:M:495:THR:O	2.11	0.50
1:E:407:ARG:HH21	1:E:431:PRO:HD2	1.76	0.50
1:G:128:HIS:HD2	1:G:239:ASN:OD1	1.95	0.50
1:I:386:GLY:HA2	1:I:391:TYR:CD1	2.47	0.50
1:J:91:VAL:HG22	1:J:193:TYR:O	2.12	0.50
1:K:539:LEU:OXT	1:1:419:LYS:NZ	2.44	0.50
1:N:383:LEU:HB3	1:N:394:CYS:HB3	1.92	0.50
1:S:140:LEU:HD12	1:S:147:THR:HB	1.92	0.50
1:T:539:LEU:OXT	1:4:419:LYS:NZ	2.44	0.50
1:V:244:CYS:SG	1:V:245:GLU:N	2.79	0.50
1:Y:61:ARG:HD3	1:Y:179:PRO:HD2	1.92	0.50
1:Y:244:CYS:SG	1:Y:245:GLU:N	2.79	0.50
1:Z:268:ARG:HH21	1:x:173:TRP:CD1	2.29	0.50
1:1:386:GLY:HA2	1:1:391:TYR:CD1	2.47	0.50
1:2:407:ARG:HH21	1:2:431:PRO:HD2	1.76	0.50
1:2:495:THR:O	1:3:492:ARG:HA	2.11	0.50
1:3:173:TRP:CD1	1:j:268:ARG:HH21	2.29	0.50
1:3:218:PRO:HB2	1:3:220:PHE:CE2	2.47	0.50
1:3:304:GLN:HB2	1:j:273:ARG:HH12	1.76	0.50
1:3:369:ILE:HG22	1:3:525:TRP:CD1	2.46	0.50
1:5:91:VAL:HG22	1:5:193:TYR:O	2.12	0.50
1:5:468:CYS:SG	1:5:469:THR:N	2.84	0.50
1:6:128:HIS:HD2	1:6:239:ASN:OD1	1.95	0.50
1:a:492:ARG:HA	1:t:495:THR:O	2.11	0.50
1:c:419:LYS:NZ	1:e:539:LEU:OXT	2.44	0.50
1:e:140:LEU:HD12	1:e:147:THR:HB	1.92	0.50
1:h:91:VAL:HG22	1:h:193:TYR:O	2.12	0.50
1:h:164:HIS:HB2	1:h:422:ARG:HH22	1.76	0.50
1:h:407:ARG:HH21	1:h:431:PRO:HD2	1.76	0.50
1:k:218:PRO:HB2	1:k:220:PHE:CE2	2.47	0.50
1:k:369:ILE:HG22	1:k:525:TRP:CD1	2.46	0.50
1:n:492:ARG:HA	1:y:495:THR:O	2.12	0.50
1:p:492:ARG:HA	1:s:495:THR:O	2.11	0.50
1:q:218:PRO:HB2	1:q:220:PHE:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:268:ARG:HH21	1:s:173:TRP:CD1	2.29	0.50
1:r:386:GLY:HA2	1:r:391:TYR:CD1	2.47	0.50
1:t:296:THR:HG23	1:t:381:GLN:HB3	1.92	0.50
1:x:407:ARG:HH21	1:x:431:PRO:HD2	1.76	0.50
1:y:91:VAL:HG22	1:y:193:TYR:O	2.12	0.50
1:y:158:ILE:HD12	1:y:230:LEU:HD12	1.94	0.50
1:8:61:ARG:HD3	1:8:179:PRO:HD2	1.92	0.50
1:8:386:GLY:HA2	1:8:391:TYR:CD1	2.47	0.50
1:B:495:THR:O	1:I:492:ARG:HA	2.11	0.50
1:C:218:PRO:HB2	1:C:220:PHE:CE2	2.47	0.50
1:D:140:LEU:HD12	1:D:147:THR:HB	1.92	0.50
1:D:218:PRO:HB2	1:D:220:PHE:CE2	2.47	0.50
1:D:407:ARG:HH21	1:D:431:PRO:HD2	1.76	0.50
1:G:369:ILE:HG22	1:G:525:TRP:CD1	2.46	0.50
1:G:386:GLY:HA2	1:G:391:TYR:CD1	2.47	0.50
1:H:91:VAL:HG22	1:H:193:TYR:O	2.12	0.50
1:H:158:ILE:HD12	1:H:230:LEU:HD12	1.94	0.50
1:H:268:ARG:HH21	1:W:173:TRP:CD1	2.29	0.50
1:M:164:HIS:HD2	1:M:440:HIS:HD2	1.59	0.50
1:M:173:TRP:CD1	1:2:268:ARG:HH21	2.29	0.50
1:N:407:ARG:HH21	1:N:431:PRO:HD2	1.76	0.50
1:R:173:TRP:CD1	1:U:268:ARG:HH21	2.29	0.50
1:T:218:PRO:HB2	1:T:220:PHE:CE2	2.47	0.50
1:T:369:ILE:HG22	1:T:525:TRP:CD1	2.46	0.50
1:V:91:VAL:HG22	1:V:193:TYR:O	2.12	0.50
1:V:386:GLY:HA2	1:V:391:TYR:CD1	2.47	0.50
1:V:407:ARG:HH21	1:V:431:PRO:HD2	1.76	0.50
1:X:173:TRP:CD1	1:5:268:ARG:HH21	2.29	0.50
1:Y:164:HIS:HD2	1:Y:440:HIS:HD2	1.59	0.50
1:Y:386:GLY:HA2	1:Y:391:TYR:CD1	2.47	0.50
1:Y:495:THR:O	1:Z:492:ARG:HA	2.12	0.50
1:Z:218:PRO:HB2	1:Z:220:PHE:CE2	2.47	0.50
1:1:218:PRO:HB2	1:1:220:PHE:CE2	2.47	0.50
1:1:369:ILE:HG22	1:1:525:TRP:CD1	2.46	0.50
1:1:539:LEU:OXT	1:8:419:LYS:NZ	2.44	0.50
1:5:158:ILE:HD12	1:5:230:LEU:HD12	1.94	0.50
1:5:386:GLY:HA2	1:5:391:TYR:CD1	2.47	0.50
1:a:95:TRP:CG	1:a:222:LEU:HD12	2.46	0.50
1:a:158:ILE:HD12	1:a:230:LEU:HD12	1.94	0.50
1:b:386:GLY:HA2	1:b:391:TYR:CD1	2.47	0.50
1:c:91:VAL:HG22	1:c:193:TYR:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:164:HIS:HD2	1:g:440:HIS:HD2	1.59	0.50
1:j:164:HIS:HD2	1:j:440:HIS:HD2	1.59	0.50
1:j:173:TRP:HE1	1:j:433:ASP:HB2	1.75	0.50
1:k:164:HIS:HB2	1:k:422:ARG:HH22	1.76	0.50
1:k:173:TRP:CD1	1:m:268:ARG:HH21	2.29	0.50
1:k:268:ARG:HH21	1:l:173:TRP:CD1	2.29	0.50
1:n:407:ARG:HH21	1:n:431:PRO:HD2	1.76	0.50
1:r:128:HIS:HD2	1:r:239:ASN:OD1	1.95	0.50
1:r:164:HIS:HD2	1:r:440:HIS:HD2	1.59	0.50
1:r:218:PRO:HB2	1:r:220:PHE:CE2	2.47	0.50
1:s:164:HIS:HD2	1:s:440:HIS:HD2	1.59	0.50
1:w:128:HIS:HD2	1:w:239:ASN:OD1	1.95	0.50
1:x:386:GLY:HA2	1:x:391:TYR:CD1	2.47	0.50
1:7:91:VAL:HG22	1:7:193:TYR:O	2.12	0.50
1:8:158:ILE:HD12	1:8:230:LEU:HD12	1.94	0.50
1:A:268:ARG:HD3	1:G:355:GLN:O	2.11	0.49
1:A:514:ASP:CG	1:A:515:LYS:H	2.20	0.49
1:C:128:HIS:HD2	1:C:239:ASN:OD1	1.95	0.49
1:C:514:ASP:CG	1:C:515:LYS:H	2.20	0.49
1:D:539:LEU:OXT	1:N:419:LYS:NZ	2.43	0.49
1:E:158:ILE:HD12	1:E:230:LEU:HD12	1.94	0.49
1:F:66:LYS:NZ	1:G:456:SER:O	2.33	0.49
1:F:183:TYR:CD2	1:G:221:MET:HE3	2.46	0.49
1:H:386:GLY:HA2	1:H:391:TYR:CD1	2.47	0.49
1:J:158:ILE:HD12	1:J:230:LEU:HD12	1.94	0.49
1:J:514:ASP:CG	1:J:515:LYS:H	2.20	0.49
1:K:268:ARG:HH21	1:l:173:TRP:CD1	2.29	0.49
1:N:91:VAL:HG22	1:N:193:TYR:O	2.12	0.49
1:Q:407:ARG:HH21	1:Q:431:PRO:HD2	1.76	0.49
1:R:158:ILE:HD12	1:R:230:LEU:HD12	1.94	0.49
1:R:386:GLY:HA2	1:R:391:TYR:CD1	2.47	0.49
1:U:91:VAL:HG22	1:U:193:TYR:O	2.12	0.49
1:U:218:PRO:HB2	1:U:220:PHE:CE2	2.47	0.49
1:U:386:GLY:HA2	1:U:391:TYR:CD1	2.47	0.49
1:V:164:HIS:HD2	1:V:440:HIS:HD2	1.59	0.49
1:W:514:ASP:CG	1:W:515:LYS:H	2.20	0.49
1:X:514:ASP:CG	1:X:515:LYS:H	2.20	0.49
1:Y:91:VAL:HG22	1:Y:193:TYR:O	2.12	0.49
1:Z:91:VAL:HG22	1:Z:193:TYR:O	2.12	0.49
1:2:128:HIS:HD2	1:2:239:ASN:OD1	1.95	0.49
1:2:164:HIS:HD2	1:2:440:HIS:HD2	1.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:218:PRO:HB2	1:2:220:PHE:CE2	2.47	0.49
1:2:369:ILE:HG22	1:2:525:TRP:CD1	2.46	0.49
1:3:268:ARG:HH21	1:i:173:TRP:CD1	2.29	0.49
1:4:158:ILE:HD12	1:4:230:LEU:HD12	1.94	0.49
1:6:158:ILE:HD12	1:6:230:LEU:HD12	1.94	0.49
1:6:369:ILE:HG22	1:6:525:TRP:CD1	2.46	0.49
1:6:386:GLY:HA2	1:6:391:TYR:CD1	2.47	0.49
1:a:407:ARG:HH21	1:a:431:PRO:HD2	1.76	0.49
1:c:218:PRO:HB2	1:c:220:PHE:CE2	2.47	0.49
1:e:201:ALA:H	1:e:210:GLU:CG	2.23	0.49
1:g:514:ASP:CG	1:g:515:LYS:H	2.21	0.49
1:i:164:HIS:HB2	1:i:422:ARG:HH22	1.76	0.49
1:k:492:ARG:HA	1:r:495:THR:O	2.11	0.49
1:m:61:ARG:HD3	1:m:179:PRO:HD2	1.92	0.49
1:n:91:VAL:HG22	1:n:193:TYR:O	2.12	0.49
1:n:539:LEU:OXT	1:o:419:LYS:NZ	2.44	0.49
1:o:369:ILE:HG22	1:o:525:TRP:CD1	2.46	0.49
1:p:218:PRO:HB2	1:p:220:PHE:CE2	2.47	0.49
1:q:128:HIS:HD2	1:q:239:ASN:OD1	1.95	0.49
1:u:158:ILE:HD12	1:u:230:LEU:HD12	1.94	0.49
1:v:369:ILE:HG22	1:v:525:TRP:CD1	2.46	0.49
1:x:158:ILE:HD12	1:x:230:LEU:HD12	1.94	0.49
1:z:514:ASP:CG	1:z:515:LYS:H	2.21	0.49
1:A:158:ILE:HD12	1:A:230:LEU:HD12	1.94	0.49
1:A:492:ARG:HA	1:F:495:THR:O	2.12	0.49
1:B:164:HIS:HD2	1:B:440:HIS:HD2	1.59	0.49
1:B:201:ALA:H	1:B:210:GLU:CG	2.23	0.49
1:F:304:GLN:HB2	1:Q:273:ARG:HH12	1.77	0.49
1:F:407:ARG:HH21	1:F:431:PRO:HD2	1.76	0.49
1:G:273:ARG:HH12	1:I:304:GLN:HB2	1.77	0.49
1:J:218:PRO:HB2	1:J:220:PHE:CE2	2.47	0.49
1:L:164:HIS:HD2	1:L:440:HIS:HD2	1.59	0.49
1:M:158:ILE:HD12	1:M:230:LEU:HD12	1.94	0.49
1:N:386:GLY:HA2	1:N:391:TYR:CD1	2.47	0.49
1:N:539:LEU:OXT	1:P:419:LYS:NZ	2.44	0.49
1:P:369:ILE:HG22	1:P:525:TRP:CD1	2.46	0.49
1:Q:128:HIS:HD2	1:Q:239:ASN:OD1	1.95	0.49
1:Q:495:THR:O	1:R:492:ARG:HA	2.11	0.49
1:S:535:ILE:HG22	1:S:536:ASN:N	2.26	0.49
1:V:514:ASP:CG	1:V:515:LYS:H	2.20	0.49
1:W:128:HIS:HD2	1:W:239:ASN:OD1	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:128:HIS:HD2	1:X:239:ASN:OD1	1.95	0.49
1:Y:514:ASP:CG	1:Y:515:LYS:H	2.20	0.49
1:Z:90:CYS:SG	1:Z:91:VAL:N	2.79	0.49
1:2:158:ILE:HD12	1:2:230:LEU:HD12	1.94	0.49
1:4:201:ALA:H	1:4:210:GLU:CG	2.23	0.49
1:6:268:ARG:HH21	1:b:173:TRP:CD1	2.29	0.49
1:a:514:ASP:CG	1:a:515:LYS:H	2.21	0.49
1:c:158:ILE:HD12	1:c:230:LEU:HD12	1.94	0.49
1:c:514:ASP:CG	1:c:515:LYS:H	2.21	0.49
1:d:164:HIS:HD2	1:d:440:HIS:HD2	1.59	0.49
1:f:158:ILE:HD12	1:f:230:LEU:HD12	1.94	0.49
1:h:128:HIS:HD2	1:h:239:ASN:OD1	1.95	0.49
1:i:386:GLY:HA2	1:i:391:TYR:CD1	2.47	0.49
1:l:158:ILE:HD12	1:l:230:LEU:HD12	1.94	0.49
1:m:164:HIS:HD2	1:m:440:HIS:HD2	1.59	0.49
1:m:173:TRP:HE1	1:m:433:ASP:HB2	1.75	0.49
1:m:218:PRO:HB2	1:m:220:PHE:CE2	2.47	0.49
1:m:386:GLY:HA2	1:m:391:TYR:CD1	2.47	0.49
1:n:205:ASP:CG	1:n:206:SER:H	2.21	0.49
1:n:386:GLY:HA2	1:n:391:TYR:CD1	2.47	0.49
1:n:419:LYS:NZ	1:p:539:LEU:OXT	2.43	0.49
1:p:386:GLY:HA2	1:p:391:TYR:CD1	2.47	0.49
1:q:514:ASP:CG	1:q:515:LYS:H	2.21	0.49
1:r:158:ILE:HD12	1:r:230:LEU:HD12	1.94	0.49
1:r:273:ARG:HH12	1:s:304:GLN:HB2	1.76	0.49
1:r:369:ILE:HG22	1:r:525:TRP:CD1	2.46	0.49
1:s:158:ILE:HD12	1:s:230:LEU:HD12	1.94	0.49
1:s:205:ASP:CG	1:s:206:SER:H	2.20	0.49
1:t:304:GLN:HB2	1:v:273:ARG:HH12	1.76	0.49
1:v:128:HIS:HD2	1:v:239:ASN:OD1	1.95	0.49
1:z:205:ASP:CG	1:z:206:SER:H	2.21	0.49
1:7:164:HIS:HB2	1:7:422:ARG:HH22	1.76	0.49
1:8:201:ALA:H	1:8:210:GLU:CG	2.23	0.49
1:B:158:ILE:HD12	1:B:230:LEU:HD12	1.94	0.49
1:D:386:GLY:HA2	1:D:391:TYR:CD1	2.47	0.49
1:D:514:ASP:CG	1:D:515:LYS:H	2.21	0.49
1:G:158:ILE:HD12	1:G:230:LEU:HD12	1.94	0.49
1:H:128:HIS:HD2	1:H:239:ASN:OD1	1.95	0.49
1:H:539:LEU:OXT	1:W:419:LYS:NZ	2.44	0.49
1:I:205:ASP:CG	1:I:206:SER:H	2.20	0.49
1:K:158:ILE:HD12	1:K:230:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:91:VAL:HG22	1:M:193:TYR:O	2.12	0.49
1:M:205:ASP:CG	1:M:206:SER:H	2.21	0.49
1:N:128:HIS:HD2	1:N:239:ASN:OD1	1.95	0.49
1:O:386:GLY:HA2	1:O:391:TYR:CD1	2.47	0.49
1:P:164:HIS:HD2	1:P:440:HIS:HD2	1.59	0.49
1:Q:369:ILE:HG22	1:Q:525:TRP:CD1	2.46	0.49
1:S:91:VAL:HG22	1:S:193:TYR:O	2.12	0.49
1:U:369:ILE:HG22	1:U:525:TRP:CD1	2.46	0.49
1:W:164:HIS:HD2	1:W:440:HIS:HD2	1.59	0.49
1:Z:369:ILE:HG22	1:Z:525:TRP:CD1	2.46	0.49
1:1:158:ILE:HD12	1:1:230:LEU:HD12	1.94	0.49
1:3:273:ARG:HH12	1:i:304:GLN:HB2	1.76	0.49
1:5:128:HIS:HD2	1:5:239:ASN:OD1	1.95	0.49
1:b:158:ILE:HD12	1:b:230:LEU:HD12	1.94	0.49
1:c:495:THR:O	1:f:492:ARG:HA	2.11	0.49
1:g:205:ASP:CG	1:g:206:SER:H	2.21	0.49
1:g:386:GLY:HA2	1:g:391:TYR:CD1	2.47	0.49
1:i:128:HIS:HD2	1:i:239:ASN:OD1	1.95	0.49
1:i:158:ILE:HD12	1:i:230:LEU:HD12	1.94	0.49
1:j:386:GLY:HA2	1:j:391:TYR:CD1	2.47	0.49
1:k:273:ARG:HH12	1:l:304:GLN:HB2	1.76	0.49
1:l:128:HIS:HD2	1:l:239:ASN:OD1	1.95	0.49
1:l:386:GLY:HA2	1:l:391:TYR:CD1	2.47	0.49
1:o:164:HIS:HD2	1:o:440:HIS:HD2	1.59	0.49
1:t:407:ARG:HH21	1:t:431:PRO:HD2	1.76	0.49
1:v:495:THR:O	1:x:492:ARG:HA	2.11	0.49
1:w:535:ILE:HG22	1:w:536:ASN:N	2.26	0.49
1:z:218:PRO:HB2	1:z:220:PHE:CE2	2.47	0.49
1:7:128:HIS:HD2	1:7:239:ASN:OD1	1.95	0.49
1:7:495:THR:O	1:8:492:ARG:HA	2.11	0.49
1:C:69:ASN:OD1	1:C:92:SER:HB3	2.13	0.49
1:C:205:ASP:CG	1:C:206:SER:H	2.21	0.49
1:C:304:GLN:HB2	1:M:273:ARG:HH12	1.76	0.49
1:C:535:ILE:HG22	1:C:536:ASN:N	2.26	0.49
1:D:273:ARG:HH12	1:N:304:GLN:HB2	1.76	0.49
1:D:304:GLN:HB2	1:P:273:ARG:HH12	1.76	0.49
1:D:495:THR:O	1:M:492:ARG:HA	2.11	0.49
1:F:205:ASP:CG	1:F:206:SER:H	2.21	0.49
1:I:158:ILE:HD12	1:I:230:LEU:HD12	1.94	0.49
1:J:495:THR:O	1:K:492:ARG:HA	2.12	0.49
1:M:304:GLN:HB2	1:2:273:ARG:HH12	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:205:ASP:CG	1:N:206:SER:H	2.21	0.49
1:P:69:ASN:OD1	1:P:92:SER:HB3	2.13	0.49
1:Q:91:VAL:HG22	1:Q:193:TYR:O	2.12	0.49
1:T:158:ILE:HD12	1:T:230:LEU:HD12	1.94	0.49
1:T:273:ARG:HH12	1:4:304:GLN:HB2	1.76	0.49
1:T:514:ASP:CG	1:T:515:LYS:H	2.20	0.49
1:U:69:ASN:OD1	1:U:92:SER:HB3	2.13	0.49
1:U:158:ILE:HD12	1:U:230:LEU:HD12	1.94	0.49
1:X:419:LYS:NZ	1:5:539:LEU:OXT	2.44	0.49
1:Z:69:ASN:OD1	1:Z:92:SER:HB3	2.13	0.49
1:Z:158:ILE:HD12	1:Z:230:LEU:HD12	1.94	0.49
1:Z:386:GLY:HA2	1:Z:391:TYR:CD1	2.47	0.49
1:1:514:ASP:CG	1:1:515:LYS:H	2.20	0.49
1:3:128:HIS:HD2	1:3:239:ASN:OD1	1.95	0.49
1:3:205:ASP:CG	1:3:206:SER:H	2.21	0.49
1:4:492:ARG:HA	1:h:495:THR:O	2.12	0.49
1:4:514:ASP:CG	1:4:515:LYS:H	2.21	0.49
1:5:205:ASP:CG	1:5:206:SER:H	2.21	0.49
1:b:492:ARG:HA	1:e:495:THR:O	2.12	0.49
1:c:304:GLN:HB2	1:e:273:ARG:HH12	1.76	0.49
1:e:158:ILE:HD12	1:e:230:LEU:HD12	1.94	0.49
1:g:218:PRO:HB2	1:g:220:PHE:CE2	2.47	0.49
1:h:158:ILE:HD12	1:h:230:LEU:HD12	1.94	0.49
1:j:218:PRO:HB2	1:j:220:PHE:CE2	2.47	0.49
1:n:128:HIS:HD2	1:n:239:ASN:OD1	1.95	0.49
1:o:69:ASN:OD1	1:o:92:SER:HB3	2.13	0.49
1:p:514:ASP:CG	1:p:515:LYS:H	2.20	0.49
1:q:69:ASN:OD1	1:q:92:SER:HB3	2.13	0.49
1:q:386:GLY:HA2	1:q:391:TYR:CD1	2.47	0.49
1:q:535:ILE:HG22	1:q:536:ASN:N	2.26	0.49
1:s:91:VAL:HG22	1:s:193:TYR:O	2.12	0.49
1:t:205:ASP:CG	1:t:206:SER:H	2.21	0.49
1:u:205:ASP:CG	1:u:206:SER:H	2.21	0.49
1:w:91:VAL:HG22	1:w:193:TYR:O	2.12	0.49
1:8:514:ASP:CG	1:8:515:LYS:H	2.21	0.49
1:C:386:GLY:HA2	1:C:391:TYR:CD1	2.47	0.49
1:E:205:ASP:CG	1:E:206:SER:H	2.21	0.49
1:E:514:ASP:CG	1:E:515:LYS:H	2.20	0.49
1:F:495:THR:HG22	1:F:497:LEU:H	1.78	0.49
1:G:164:HIS:HD2	1:G:440:HIS:HD2	1.59	0.49
1:M:69:ASN:OD1	1:M:92:SER:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:128:HIS:HD2	1:O:239:ASN:OD1	1.95	0.49
1:O:164:HIS:HB2	1:O:422:ARG:HH22	1.76	0.49
1:Q:205:ASP:CG	1:Q:206:SER:H	2.21	0.49
1:R:218:PRO:HB2	1:R:220:PHE:CE2	2.47	0.49
1:S:514:ASP:CG	1:S:515:LYS:H	2.21	0.49
1:2:91:VAL:HG22	1:2:193:TYR:O	2.12	0.49
1:4:273:ARG:HH12	1:f:304:GLN:HB2	1.76	0.49
1:6:164:HIS:HD2	1:6:440:HIS:HD2	1.59	0.49
1:6:218:PRO:HB2	1:6:220:PHE:CE2	2.47	0.49
1:b:91:VAL:HG22	1:b:193:TYR:O	2.12	0.49
1:b:128:HIS:HD2	1:b:239:ASN:OD1	1.95	0.49
1:b:205:ASP:CG	1:b:206:SER:H	2.21	0.49
1:e:164:HIS:HD2	1:e:440:HIS:HD2	1.59	0.49
1:f:164:HIS:HB2	1:f:422:ARG:HH22	1.76	0.49
1:h:218:PRO:HB2	1:h:220:PHE:CE2	2.47	0.49
1:i:495:THR:O	1:z:492:ARG:HA	2.12	0.49
1:k:128:HIS:HD2	1:k:239:ASN:OD1	1.95	0.49
1:k:205:ASP:CG	1:k:206:SER:H	2.21	0.49
1:m:69:ASN:OD1	1:m:92:SER:HB3	2.13	0.49
1:m:91:VAL:HG22	1:m:193:TYR:O	2.12	0.49
1:n:158:ILE:HD12	1:n:230:LEU:HD12	1.94	0.49
1:n:173:TRP:CD1	1:p:268:ARG:HH21	2.29	0.49
1:n:304:GLN:HB2	1:p:273:ARG:HH12	1.77	0.49
1:o:273:ARG:HH12	1:p:304:GLN:HB2	1.76	0.49
1:q:205:ASP:CG	1:q:206:SER:H	2.21	0.49
1:u:514:ASP:CG	1:u:515:LYS:H	2.21	0.49
1:v:205:ASP:CG	1:v:206:SER:H	2.21	0.49
1:v:407:ARG:HH21	1:v:431:PRO:HD2	1.76	0.49
1:w:514:ASP:CG	1:w:515:LYS:H	2.21	0.49
1:x:218:PRO:HB2	1:x:220:PHE:CE2	2.47	0.49
1:y:128:HIS:HD2	1:y:239:ASN:OD1	1.95	0.49
1:y:386:GLY:HA2	1:y:391:TYR:CD1	2.47	0.49
1:z:128:HIS:HD2	1:z:239:ASN:OD1	1.95	0.49
1:7:218:PRO:HB2	1:7:220:PHE:CE2	2.47	0.49
1:B:495:THR:HG22	1:B:497:LEU:H	1.78	0.49
1:C:273:ARG:HH12	1:2:304:GLN:HB2	1.76	0.49
1:D:268:ARG:HH21	1:N:173:TRP:CD1	2.29	0.49
1:G:497:LEU:HD13	1:H:492:ARG:HG3	1.95	0.49
1:H:205:ASP:CG	1:H:206:SER:H	2.21	0.49
1:I:91:VAL:HG22	1:I:193:TYR:O	2.12	0.49
1:I:535:ILE:HG22	1:I:536:ASN:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:69:ASN:OD1	1:J:92:SER:HB3	2.13	0.49
1:K:304:GLN:HB2	1:8:273:ARG:HH12	1.76	0.49
1:L:128:HIS:HD2	1:L:239:ASN:OD1	1.95	0.49
1:L:218:PRO:HB2	1:L:220:PHE:CE2	2.47	0.49
1:N:158:ILE:HD12	1:N:230:LEU:HD12	1.94	0.49
1:O:164:HIS:HD2	1:O:440:HIS:HD2	1.59	0.49
1:U:90:CYS:SG	1:U:91:VAL:N	2.79	0.49
1:U:495:THR:HG22	1:U:497:LEU:H	1.78	0.49
1:V:128:HIS:HD2	1:V:239:ASN:OD1	1.95	0.49
1:X:164:HIS:HD2	1:X:440:HIS:HD2	1.59	0.49
1:X:205:ASP:CG	1:X:206:SER:H	2.21	0.49
1:Y:128:HIS:HD2	1:Y:239:ASN:OD1	1.95	0.49
1:Z:495:THR:HG22	1:Z:497:LEU:H	1.78	0.49
1:1:273:ARG:HH12	1:8:304:GLN:HB2	1.76	0.49
1:5:164:HIS:HD2	1:5:440:HIS:HD2	1.59	0.49
1:c:69:ASN:OD1	1:c:92:SER:HB3	2.13	0.49
1:c:205:ASP:CG	1:c:206:SER:H	2.21	0.49
1:d:218:PRO:HB2	1:d:220:PHE:CE2	2.47	0.49
1:f:386:GLY:HA2	1:f:391:TYR:CD1	2.47	0.49
1:g:128:HIS:HD2	1:g:239:ASN:OD1	1.95	0.49
1:g:492:ARG:HA	1:l:495:THR:O	2.12	0.49
1:j:69:ASN:OD1	1:j:92:SER:HB3	2.13	0.49
1:j:91:VAL:HG22	1:j:193:TYR:O	2.12	0.49
1:p:205:ASP:CG	1:p:206:SER:H	2.21	0.49
1:p:495:THR:O	1:s:492:ARG:HA	2.11	0.49
1:q:304:GLN:HB2	1:s:273:ARG:HH12	1.76	0.49
1:r:91:VAL:HG22	1:r:193:TYR:O	2.12	0.49
1:s:69:ASN:OD1	1:s:92:SER:HB3	2.13	0.49
1:t:218:PRO:HB2	1:t:220:PHE:CE2	2.47	0.49
1:v:91:VAL:HG22	1:v:193:TYR:O	2.12	0.49
1:x:205:ASP:CG	1:x:206:SER:H	2.20	0.49
1:y:164:HIS:HB2	1:y:422:ARG:HH22	1.76	0.49
1:z:386:GLY:HA2	1:z:391:TYR:CD1	2.47	0.49
1:7:158:ILE:HD12	1:7:230:LEU:HD12	1.94	0.49
1:B:218:PRO:HB2	1:B:220:PHE:CE2	2.47	0.49
1:B:273:ARG:HH12	1:J:304:GLN:HB2	1.76	0.49
1:B:514:ASP:CG	1:B:515:LYS:H	2.20	0.49
1:D:205:ASP:CG	1:D:206:SER:H	2.21	0.49
1:F:218:PRO:HB2	1:F:220:PHE:CE2	2.47	0.49
1:G:218:PRO:HB2	1:G:220:PHE:CE2	2.47	0.49
1:G:469:THR:HG21	1:W:453:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:514:ASP:CG	1:G:515:LYS:H	2.20	0.49
1:H:164:HIS:HD2	1:H:440:HIS:HD2	1.59	0.49
1:H:218:PRO:HB2	1:H:220:PHE:CE2	2.47	0.49
1:I:128:HIS:HD2	1:I:239:ASN:OD1	1.95	0.49
1:J:205:ASP:CG	1:J:206:SER:H	2.21	0.49
1:K:495:THR:HG22	1:K:497:LEU:H	1.78	0.49
1:L:158:ILE:HD12	1:L:230:LEU:HD12	1.94	0.49
1:O:514:ASP:CG	1:O:515:LYS:H	2.21	0.49
1:P:218:PRO:HB2	1:P:220:PHE:CE2	2.47	0.49
1:Q:164:HIS:HB2	1:Q:422:ARG:HH22	1.76	0.49
1:Q:386:GLY:HA2	1:Q:391:TYR:CD1	2.47	0.49
1:R:91:VAL:HG22	1:R:193:TYR:O	2.12	0.49
1:R:205:ASP:CG	1:R:206:SER:H	2.21	0.49
1:V:218:PRO:HB2	1:V:220:PHE:CE2	2.47	0.49
1:W:91:VAL:HG22	1:W:193:TYR:O	2.12	0.49
1:X:91:VAL:HG22	1:X:193:TYR:O	2.12	0.49
1:b:514:ASP:CG	1:b:515:LYS:H	2.20	0.49
1:d:128:HIS:HD2	1:d:239:ASN:OD1	1.95	0.49
1:d:158:ILE:HD12	1:d:230:LEU:HD12	1.94	0.49
1:e:495:THR:HG22	1:e:497:LEU:H	1.78	0.49
1:f:218:PRO:HB2	1:f:220:PHE:CE2	2.47	0.49
1:f:495:THR:HG22	1:f:497:LEU:H	1.78	0.49
1:k:535:ILE:HG22	1:k:536:ASN:N	2.26	0.49
1:l:218:PRO:HB2	1:l:220:PHE:CE2	2.47	0.49
1:q:273:ARG:HH12	1:r:304:GLN:HB2	1.76	0.49
1:t:386:GLY:HA2	1:t:391:TYR:CD1	2.47	0.49
1:t:495:THR:HG22	1:t:497:LEU:H	1.78	0.49
1:v:218:PRO:HB2	1:v:220:PHE:CE2	2.47	0.49
1:y:273:ARG:HH12	1:z:304:GLN:HB2	1.77	0.49
1:B:69:ASN:OD1	1:B:92:SER:HB3	2.13	0.49
1:C:158:ILE:HD12	1:C:230:LEU:HD12	1.94	0.49
1:E:386:GLY:HA2	1:E:391:TYR:CD1	2.47	0.49
1:F:386:GLY:HA2	1:F:391:TYR:CD1	2.47	0.49
1:I:218:PRO:HB2	1:I:220:PHE:CE2	2.47	0.49
1:I:514:ASP:CG	1:I:515:LYS:H	2.21	0.49
1:K:164:HIS:HB2	1:K:422:ARG:HH22	1.76	0.49
1:K:386:GLY:HA2	1:K:391:TYR:CD1	2.47	0.49
1:N:514:ASP:CG	1:N:515:LYS:H	2.21	0.49
1:P:158:ILE:HD12	1:P:230:LEU:HD12	1.94	0.49
1:P:386:GLY:HA2	1:P:391:TYR:CD1	2.47	0.49
1:Q:218:PRO:HB2	1:Q:220:PHE:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:69:ASN:OD1	1:V:92:SER:HB3	2.13	0.49
1:V:495:THR:HG22	1:V:497:LEU:H	1.78	0.49
1:W:205:ASP:CG	1:W:206:SER:H	2.21	0.49
1:X:495:THR:HG22	1:X:497:LEU:H	1.78	0.49
1:Y:69:ASN:OD1	1:Y:92:SER:HB3	2.13	0.49
1:Y:218:PRO:HB2	1:Y:220:PHE:CE2	2.47	0.49
1:1:164:HIS:HD2	1:1:440:HIS:HD2	1.59	0.49
1:5:218:PRO:HB2	1:5:220:PHE:CE2	2.47	0.49
1:6:495:THR:HG22	1:6:497:LEU:H	1.78	0.49
1:b:69:ASN:OD1	1:b:92:SER:HB3	2.13	0.49
1:e:69:ASN:OD1	1:e:92:SER:HB3	2.13	0.49
1:e:514:ASP:CG	1:e:515:LYS:H	2.21	0.49
1:i:514:ASP:CB	1:i:518:ALA:HB3	2.43	0.49
1:j:514:ASP:CG	1:j:515:LYS:H	2.21	0.49
1:k:514:ASP:CB	1:k:518:ALA:HB3	2.43	0.49
1:l:514:ASP:CB	1:l:518:ALA:HB3	2.43	0.49
1:m:205:ASP:CG	1:m:206:SER:H	2.21	0.49
1:o:205:ASP:CG	1:o:206:SER:H	2.21	0.49
1:o:218:PRO:HB2	1:o:220:PHE:CE2	2.47	0.49
1:q:158:ILE:HD12	1:q:230:LEU:HD12	1.94	0.49
1:v:164:HIS:HB2	1:v:422:ARG:HH22	1.76	0.49
1:x:91:VAL:HG22	1:x:193:TYR:O	2.12	0.49
1:y:164:HIS:HD2	1:y:440:HIS:HD2	1.59	0.49
1:B:205:ASP:CG	1:B:206:SER:H	2.21	0.49
1:C:91:VAL:HG22	1:C:193:TYR:O	2.12	0.49
1:D:495:THR:HG22	1:D:497:LEU:H	1.78	0.49
1:E:208:ALA:HA	1:E:211:LYS:HB3	1.95	0.49
1:I:69:ASN:OD1	1:I:92:SER:HB3	2.13	0.49
1:K:91:VAL:HG22	1:K:193:TYR:O	2.12	0.49
1:K:218:PRO:HB2	1:K:220:PHE:CE2	2.47	0.49
1:L:91:VAL:HG22	1:L:193:TYR:O	2.12	0.49
1:M:514:ASP:CG	1:M:515:LYS:H	2.20	0.49
1:O:514:ASP:CB	1:O:518:ALA:HB3	2.43	0.49
1:P:205:ASP:CG	1:P:206:SER:H	2.21	0.49
1:P:514:ASP:CG	1:P:515:LYS:H	2.21	0.49
1:T:128:HIS:HD2	1:T:239:ASN:OD1	1.95	0.49
1:T:164:HIS:HD2	1:T:440:HIS:HD2	1.59	0.49
1:T:514:ASP:CB	1:T:518:ALA:HB3	2.43	0.49
1:W:495:THR:HG22	1:W:497:LEU:H	1.78	0.49
1:Y:495:THR:HG22	1:Y:497:LEU:H	1.78	0.49
1:Z:514:ASP:CG	1:Z:515:LYS:H	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:514:ASP:CB	1:1:518:ALA:HB3	2.43	0.49
1:3:69:ASN:OD1	1:3:92:SER:HB3	2.13	0.49
1:3:514:ASP:CB	1:3:518:ALA:HB3	2.43	0.49
1:3:535:ILE:HG22	1:3:536:ASN:N	2.26	0.49
1:4:164:HIS:HD2	1:4:440:HIS:HD2	1.59	0.49
1:6:273:ARG:HH12	1:b:304:GLN:HB2	1.76	0.49
1:6:514:ASP:CG	1:6:515:LYS:H	2.21	0.49
1:b:218:PRO:HB2	1:b:220:PHE:CE2	2.47	0.49
1:d:69:ASN:OD1	1:d:92:SER:HB3	2.13	0.49
1:e:205:ASP:CG	1:e:206:SER:H	2.21	0.49
1:e:218:PRO:HB2	1:e:220:PHE:CE2	2.47	0.49
1:f:91:VAL:HG22	1:f:193:TYR:O	2.12	0.49
1:h:205:ASP:CG	1:h:206:SER:H	2.21	0.49
1:i:218:PRO:HB2	1:i:220:PHE:CE2	2.47	0.49
1:j:205:ASP:CG	1:j:206:SER:H	2.21	0.49
1:j:495:THR:O	1:m:492:ARG:HA	2.11	0.49
1:l:514:ASP:CG	1:l:515:LYS:H	2.21	0.49
1:n:514:ASP:CG	1:n:515:LYS:H	2.20	0.49
1:o:158:ILE:HD12	1:o:230:LEU:HD12	1.94	0.49
1:o:386:GLY:HA2	1:o:391:TYR:CD1	2.47	0.49
1:o:514:ASP:CG	1:o:515:LYS:H	2.21	0.49
1:p:495:THR:HG22	1:p:497:LEU:H	1.78	0.49
1:q:91:VAL:HG22	1:q:193:TYR:O	2.12	0.49
1:s:514:ASP:CG	1:s:515:LYS:H	2.20	0.49
1:u:208:ALA:HA	1:u:211:LYS:HB3	1.95	0.49
1:u:386:GLY:HA2	1:u:391:TYR:CD1	2.47	0.49
1:v:386:GLY:HA2	1:v:391:TYR:CD1	2.47	0.49
1:w:69:ASN:OD1	1:w:92:SER:HB3	2.13	0.49
1:w:267:ARG:HG3	1:w:267:ARG:O	2.13	0.49
1:y:514:ASP:CG	1:y:515:LYS:H	2.21	0.49
1:y:514:ASP:CB	1:y:518:ALA:HB3	2.43	0.49
1:7:205:ASP:CG	1:7:206:SER:H	2.21	0.49
1:8:164:HIS:HD2	1:8:440:HIS:HD2	1.59	0.49
1:8:205:ASP:CG	1:8:206:SER:H	2.21	0.49
1:A:386:GLY:HA2	1:A:391:TYR:CD1	2.47	0.49
1:C:514:ASP:CB	1:C:518:ALA:HB3	2.43	0.49
1:F:91:VAL:HG22	1:F:193:TYR:O	2.12	0.49
1:G:495:THR:HG22	1:G:497:LEU:H	1.78	0.49
1:H:69:ASN:OD1	1:H:92:SER:HB3	2.13	0.49
1:H:495:THR:HG22	1:H:497:LEU:H	1.78	0.49
1:H:514:ASP:CB	1:H:518:ALA:HB3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:267:ARG:HG3	1:J:267:ARG:O	2.13	0.49
1:K:164:HIS:HD2	1:K:440:HIS:HD2	1.59	0.49
1:K:275:ASN:OD1	1:K:388:GLN:NE2	2.46	0.49
1:L:69:ASN:OD1	1:L:92:SER:HB3	2.13	0.49
1:M:218:PRO:HB2	1:M:220:PHE:CE2	2.47	0.49
1:N:267:ARG:O	1:N:267:ARG:HG3	2.13	0.49
1:O:275:ASN:OD1	1:O:388:GLN:NE2	2.46	0.49
1:P:275:ASN:OD1	1:P:388:GLN:NE2	2.46	0.49
1:Q:275:ASN:CB	1:Q:276:GLY:HA3	2.41	0.49
1:Q:514:ASP:CB	1:Q:518:ALA:HB3	2.43	0.49
1:R:514:ASP:CB	1:R:518:ALA:HB3	2.43	0.49
1:S:158:ILE:HD12	1:S:230:LEU:HD12	1.94	0.49
1:S:267:ARG:HG3	1:S:267:ARG:O	2.13	0.49
1:T:495:THR:HG22	1:T:497:LEU:H	1.78	0.49
1:U:208:ALA:HA	1:U:211:LYS:HB3	1.95	0.49
1:U:275:ASN:OD1	1:U:388:GLN:NE2	2.46	0.49
1:U:514:ASP:CG	1:U:515:LYS:H	2.21	0.49
1:Y:208:ALA:HA	1:Y:211:LYS:HB3	1.95	0.49
1:Z:275:ASN:OD1	1:Z:388:GLN:NE2	2.46	0.49
1:1:128:HIS:HD2	1:1:239:ASN:OD1	1.95	0.49
1:1:495:THR:HG22	1:1:497:LEU:H	1.78	0.49
1:2:205:ASP:CG	1:2:206:SER:H	2.21	0.49
1:2:495:THR:HG22	1:2:497:LEU:H	1.78	0.49
1:4:275:ASN:OD1	1:4:388:GLN:NE2	2.46	0.49
1:5:495:THR:HG22	1:5:497:LEU:H	1.78	0.49
1:a:386:GLY:HA2	1:a:391:TYR:CD1	2.47	0.49
1:b:535:ILE:HG22	1:b:536:ASN:N	2.26	0.49
1:d:91:VAL:HG22	1:d:193:TYR:O	2.12	0.49
1:h:69:ASN:OD1	1:h:92:SER:HB3	2.13	0.49
1:j:492:ARG:HA	1:m:495:THR:O	2.11	0.49
1:k:69:ASN:OD1	1:k:92:SER:HB3	2.13	0.49
1:m:158:ILE:HD12	1:m:230:LEU:HD12	1.94	0.49
1:m:495:THR:HG22	1:m:497:LEU:H	1.78	0.49
1:m:514:ASP:CG	1:m:515:LYS:H	2.21	0.49
1:n:267:ARG:HG3	1:n:267:ARG:O	2.13	0.49
1:o:275:ASN:OD1	1:o:388:GLN:NE2	2.46	0.49
1:q:514:ASP:CB	1:q:518:ALA:HB3	2.43	0.49
1:s:218:PRO:HB2	1:s:220:PHE:CE2	2.47	0.49
1:t:91:VAL:HG22	1:t:193:TYR:O	2.12	0.49
1:v:275:ASN:CB	1:v:276:GLY:HA3	2.41	0.49
1:v:514:ASP:CB	1:v:518:ALA:HB3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:158:ILE:HD12	1:w:230:LEU:HD12	1.94	0.49
1:x:514:ASP:CB	1:x:518:ALA:HB3	2.43	0.49
1:y:275:ASN:OD1	1:y:388:GLN:NE2	2.46	0.49
1:y:495:THR:HG22	1:y:497:LEU:H	1.78	0.49
1:z:91:VAL:HG22	1:z:193:TYR:O	2.12	0.49
1:8:275:ASN:OD1	1:8:388:GLN:NE2	2.46	0.49
1:A:218:PRO:HB2	1:A:220:PHE:CE2	2.47	0.48
1:D:128:HIS:HD2	1:D:239:ASN:OD1	1.95	0.48
1:G:272:ILE:HD11	1:I:313:THR:HG21	1.95	0.48
1:H:313:THR:HG21	1:Y:272:ILE:HD11	1.95	0.48
1:N:514:ASP:CB	1:N:518:ALA:HB3	2.43	0.48
1:P:208:ALA:HA	1:P:211:LYS:HB3	1.95	0.48
1:Q:158:ILE:HD12	1:Q:230:LEU:HD12	1.94	0.48
1:R:273:ARG:HH12	1:S:304:GLN:HB2	1.76	0.48
1:S:69:ASN:OD1	1:S:92:SER:HB3	2.13	0.48
1:V:205:ASP:CG	1:V:206:SER:H	2.21	0.48
1:V:208:ALA:HA	1:V:211:LYS:HB3	1.95	0.48
1:W:267:ARG:HG3	1:W:267:ARG:O	2.13	0.48
1:X:267:ARG:HG3	1:X:267:ARG:O	2.13	0.48
1:X:313:THR:HG21	1:5:272:ILE:HD11	1.95	0.48
1:Z:208:ALA:HA	1:Z:211:LYS:HB3	1.95	0.48
1:Z:514:ASP:CB	1:Z:518:ALA:HB3	2.43	0.48
1:3:158:ILE:HD12	1:3:230:LEU:HD12	1.94	0.48
1:4:205:ASP:CG	1:4:206:SER:H	2.21	0.48
1:4:267:ARG:HG3	1:4:267:ARG:O	2.13	0.48
1:5:69:ASN:OD1	1:5:92:SER:HB3	2.13	0.48
1:6:69:ASN:OD1	1:6:92:SER:HB3	2.13	0.48
1:a:218:PRO:HB2	1:a:220:PHE:CE2	2.47	0.48
1:c:267:ARG:HG3	1:c:267:ARG:O	2.13	0.48
1:c:514:ASP:CB	1:c:518:ALA:HB3	2.43	0.48
1:f:275:ASN:OD1	1:f:388:GLN:NE2	2.46	0.48
1:h:514:ASP:CG	1:h:515:LYS:H	2.21	0.48
1:i:514:ASP:CG	1:i:515:LYS:H	2.21	0.48
1:j:158:ILE:HD12	1:j:230:LEU:HD12	1.94	0.48
1:j:495:THR:HG22	1:j:497:LEU:H	1.78	0.48
1:k:158:ILE:HD12	1:k:230:LEU:HD12	1.94	0.48
1:n:69:ASN:OD1	1:n:92:SER:HB3	2.13	0.48
1:n:514:ASP:CB	1:n:518:ALA:HB3	2.43	0.48
1:p:128:HIS:HD2	1:p:239:ASN:OD1	1.95	0.48
1:q:495:THR:HG22	1:q:497:LEU:H	1.78	0.48
1:r:205:ASP:CG	1:r:206:SER:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:514:ASP:CB	1:s:518:ALA:HB3	2.43	0.48
1:7:514:ASP:CG	1:7:515:LYS:H	2.21	0.48
1:8:267:ARG:HG3	1:8:267:ARG:O	2.13	0.48
1:8:495:THR:HG22	1:8:497:LEU:H	1.78	0.48
1:A:275:ASN:OD1	1:A:388:GLN:NE2	2.46	0.48
1:A:495:THR:HG22	1:A:497:LEU:H	1.78	0.48
1:A:514:ASP:CB	1:A:518:ALA:HB3	2.43	0.48
1:C:495:THR:HG22	1:C:497:LEU:H	1.78	0.48
1:E:218:PRO:HB2	1:E:220:PHE:CE2	2.47	0.48
1:E:272:ILE:HD11	1:Q:313:THR:HG21	1.95	0.48
1:H:272:ILE:HD11	1:W:313:THR:HG21	1.95	0.48
1:H:514:ASP:CG	1:H:515:LYS:H	2.21	0.48
1:I:514:ASP:CB	1:I:518:ALA:HB3	2.43	0.48
1:J:128:HIS:HD2	1:J:239:ASN:OD1	1.95	0.48
1:J:495:THR:HG22	1:J:497:LEU:H	1.78	0.48
1:J:514:ASP:CB	1:J:518:ALA:HB3	2.43	0.48
1:K:205:ASP:CG	1:K:206:SER:H	2.21	0.48
1:M:128:HIS:HD2	1:M:239:ASN:OD1	1.95	0.48
1:M:177:VAL:HG12	1:M:178:MET:N	2.29	0.48
1:M:275:ASN:CB	1:M:276:GLY:HA3	2.41	0.48
1:M:514:ASP:CB	1:M:518:ALA:HB3	2.43	0.48
1:N:69:ASN:OD1	1:N:92:SER:HB3	2.13	0.48
1:N:218:PRO:HB2	1:N:220:PHE:CE2	2.47	0.48
1:O:205:ASP:CG	1:O:206:SER:H	2.21	0.48
1:O:218:PRO:HB2	1:O:220:PHE:CE2	2.47	0.48
1:O:495:THR:HG22	1:O:497:LEU:H	1.78	0.48
1:Q:267:ARG:O	1:Q:267:ARG:HG3	2.13	0.48
1:R:128:HIS:HD2	1:R:239:ASN:OD1	1.95	0.48
1:R:514:ASP:CG	1:R:515:LYS:H	2.20	0.48
1:R:535:ILE:HG22	1:R:536:ASN:N	2.26	0.48
1:S:218:PRO:HB2	1:S:220:PHE:CE2	2.47	0.48
1:U:514:ASP:CB	1:U:518:ALA:HB3	2.43	0.48
1:W:514:ASP:CB	1:W:518:ALA:HB3	2.43	0.48
1:X:514:ASP:CB	1:X:518:ALA:HB3	2.43	0.48
1:Y:158:ILE:HD12	1:Y:230:LEU:HD12	1.94	0.48
1:3:275:ASN:OD1	1:3:388:GLN:NE2	2.46	0.48
1:3:313:THR:HG21	1:j:272:ILE:HD11	1.95	0.48
1:4:495:THR:HG22	1:4:497:LEU:H	1.78	0.48
1:5:514:ASP:CB	1:5:518:ALA:HB3	2.43	0.48
1:5:514:ASP:CG	1:5:515:LYS:H	2.20	0.48
1:6:205:ASP:CG	1:6:206:SER:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:127:MET:HB3	1:b:240:PHE:HB2	1.96	0.48
1:c:275:ASN:CB	1:c:276:GLY:HA3	2.41	0.48
1:c:495:THR:HG22	1:c:497:LEU:H	1.78	0.48
1:d:275:ASN:OD1	1:d:388:GLN:NE2	2.46	0.48
1:f:69:ASN:OD1	1:f:92:SER:HB3	2.13	0.48
1:g:69:ASN:OD1	1:g:92:SER:HB3	2.13	0.48
1:g:91:VAL:HG22	1:g:193:TYR:O	2.12	0.48
1:h:514:ASP:CB	1:h:518:ALA:HB3	2.43	0.48
1:i:208:ALA:HA	1:i:211:LYS:HB3	1.95	0.48
1:j:267:ARG:HG3	1:j:267:ARG:O	2.13	0.48
1:l:208:ALA:HA	1:l:211:LYS:HB3	1.95	0.48
1:l:272:ILE:HD11	1:m:313:THR:HG21	1.95	0.48
1:m:267:ARG:HG3	1:m:267:ARG:O	2.13	0.48
1:n:218:PRO:HB2	1:n:220:PHE:CE2	2.47	0.48
1:r:495:THR:HG22	1:r:497:LEU:H	1.78	0.48
1:r:514:ASP:CG	1:r:515:LYS:H	2.20	0.48
1:s:177:VAL:HG12	1:s:178:MET:N	2.29	0.48
1:u:69:ASN:OD1	1:u:92:SER:HB3	2.13	0.48
1:u:218:PRO:HB2	1:u:220:PHE:CE2	2.47	0.48
1:v:158:ILE:HD12	1:v:230:LEU:HD12	1.94	0.48
1:x:128:HIS:HD2	1:x:239:ASN:OD1	1.95	0.48
1:y:218:PRO:HB2	1:y:220:PHE:CE2	2.47	0.48
1:7:69:ASN:OD1	1:7:92:SER:HB3	2.13	0.48
1:A:539:LEU:OXT	1:G:419:LYS:NZ	2.45	0.48
1:E:69:ASN:OD1	1:E:92:SER:HB3	2.13	0.48
1:E:90:CYS:SG	1:E:91:VAL:N	2.79	0.48
1:E:127:MET:HB3	1:E:240:PHE:HB2	1.96	0.48
1:E:275:ASN:OD1	1:E:388:GLN:NE2	2.46	0.48
1:E:514:ASP:CB	1:E:518:ALA:HB3	2.43	0.48
1:I:127:MET:HB3	1:I:240:PHE:HB2	1.96	0.48
1:K:69:ASN:OD1	1:K:92:SER:HB3	2.13	0.48
1:L:205:ASP:CG	1:L:206:SER:H	2.21	0.48
1:L:275:ASN:OD1	1:L:388:GLN:NE2	2.46	0.48
1:L:514:ASP:CG	1:L:515:LYS:H	2.20	0.48
1:O:313:THR:HG21	1:h:272:ILE:HD11	1.95	0.48
1:P:177:VAL:HG12	1:P:178:MET:N	2.29	0.48
1:R:313:THR:HG21	1:U:272:ILE:HD11	1.95	0.48
1:S:275:ASN:OD1	1:S:388:GLN:NE2	2.46	0.48
1:T:275:ASN:OD1	1:T:388:GLN:NE2	2.46	0.48
1:U:267:ARG:HG3	1:U:267:ARG:O	2.13	0.48
1:V:158:ILE:HD12	1:V:230:LEU:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:177:VAL:HG12	1:V:178:MET:N	2.29	0.48
1:V:272:ILE:HD11	1:5:313:THR:HG21	1.95	0.48
1:V:514:ASP:CB	1:V:518:ALA:HB3	2.43	0.48
1:Y:205:ASP:CG	1:Y:206:SER:H	2.21	0.48
1:Y:275:ASN:OD1	1:Y:388:GLN:NE2	2.46	0.48
1:Z:177:VAL:HG12	1:Z:178:MET:N	2.29	0.48
1:Z:267:ARG:HG3	1:Z:267:ARG:O	2.13	0.48
1:Z:272:ILE:HD11	1:x:313:THR:HG21	1.95	0.48
1:1:272:ILE:HD11	1:8:313:THR:HG21	1.95	0.48
1:2:69:ASN:OD1	1:2:92:SER:HB3	2.13	0.48
1:2:514:ASP:CG	1:2:515:LYS:H	2.21	0.48
1:a:275:ASN:OD1	1:a:388:GLN:NE2	2.46	0.48
1:a:495:THR:HG22	1:a:497:LEU:H	1.78	0.48
1:b:495:THR:HG22	1:b:497:LEU:H	1.78	0.48
1:c:128:HIS:HD2	1:c:239:ASN:OD1	1.95	0.48
1:d:514:ASP:CG	1:d:515:LYS:H	2.20	0.48
1:h:275:ASN:OD1	1:h:388:GLN:NE2	2.46	0.48
1:i:275:ASN:OD1	1:i:388:GLN:NE2	2.46	0.48
1:k:275:ASN:OD1	1:k:388:GLN:NE2	2.46	0.48
1:k:313:THR:HG21	1:m:272:ILE:HD11	1.95	0.48
1:k:495:THR:HG22	1:k:497:LEU:H	1.78	0.48
1:l:275:ASN:OD1	1:l:388:GLN:NE2	2.46	0.48
1:o:177:VAL:HG12	1:o:178:MET:N	2.29	0.48
1:s:127:MET:HB3	1:s:240:PHE:HB2	1.96	0.48
1:s:275:ASN:CB	1:s:276:GLY:HA3	2.41	0.48
1:u:90:CYS:SG	1:u:91:VAL:N	2.79	0.48
1:u:272:ILE:HD11	1:v:313:THR:HG21	1.95	0.48
1:v:267:ARG:HG3	1:v:267:ARG:O	2.14	0.48
1:w:218:PRO:HB2	1:w:220:PHE:CE2	2.47	0.48
1:w:304:GLN:HB2	1:x:273:ARG:HH12	1.76	0.48
1:x:514:ASP:CG	1:x:515:LYS:H	2.20	0.48
1:x:535:ILE:HG22	1:x:536:ASN:N	2.26	0.48
1:y:205:ASP:CG	1:y:206:SER:H	2.21	0.48
1:z:275:ASN:OD1	1:z:388:GLN:NE2	2.46	0.48
1:7:275:ASN:OD1	1:7:388:GLN:NE2	2.46	0.48
1:7:514:ASP:CB	1:7:518:ALA:HB3	2.43	0.48
1:D:127:MET:HB3	1:D:240:PHE:HB2	1.96	0.48
1:D:158:ILE:HD12	1:D:230:LEU:HD12	1.94	0.48
1:F:208:ALA:HA	1:F:211:LYS:HB3	1.95	0.48
1:G:69:ASN:OD1	1:G:92:SER:HB3	2.13	0.48
1:G:205:ASP:CG	1:G:206:SER:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:275:ASN:CB	1:J:276:GLY:HA3	2.41	0.48
1:K:255:PRO:HD3	1:1:197:ILE:HD11	1.96	0.48
1:M:127:MET:HB3	1:M:240:PHE:HB2	1.96	0.48
1:O:272:ILE:HD11	1:g:313:THR:HG21	1.95	0.48
1:Q:69:ASN:OD1	1:Q:92:SER:HB3	2.13	0.48
1:T:272:ILE:HD11	1:4:313:THR:HG21	1.95	0.48
1:T:313:THR:HG21	1:f:272:ILE:HD11	1.95	0.48
1:U:177:VAL:HG12	1:U:178:MET:N	2.29	0.48
1:U:205:ASP:CG	1:U:206:SER:H	2.21	0.48
1:V:275:ASN:OD1	1:V:388:GLN:NE2	2.46	0.48
1:W:69:ASN:OD1	1:W:92:SER:HB3	2.13	0.48
1:X:158:ILE:HD12	1:X:230:LEU:HD12	1.94	0.48
1:Y:177:VAL:HG12	1:Y:178:MET:N	2.29	0.48
1:Y:514:ASP:CB	1:Y:518:ALA:HB3	2.43	0.48
1:Z:205:ASP:CG	1:Z:206:SER:H	2.21	0.48
1:2:514:ASP:CB	1:2:518:ALA:HB3	2.43	0.48
1:3:495:THR:HG22	1:3:497:LEU:H	1.78	0.48
1:a:514:ASP:CB	1:a:518:ALA:HB3	2.43	0.48
1:b:267:ARG:HG3	1:b:267:ARG:O	2.13	0.48
1:b:514:ASP:CB	1:b:518:ALA:HB3	2.43	0.48
1:d:255:PRO:HD3	1:e:197:ILE:HD11	1.96	0.48
1:d:272:ILE:HD11	1:e:313:THR:HG21	1.95	0.48
1:f:164:HIS:HD2	1:f:440:HIS:HD2	1.59	0.48
1:f:205:ASP:CG	1:f:206:SER:H	2.21	0.48
1:g:275:ASN:OD1	1:g:388:GLN:NE2	2.46	0.48
1:h:208:ALA:HA	1:h:211:LYS:HB3	1.95	0.48
1:i:127:MET:HB3	1:i:240:PHE:HB2	1.96	0.48
1:i:272:ILE:HD11	1:j:313:THR:HG21	1.95	0.48
1:i:535:ILE:HG22	1:i:536:ASN:N	2.26	0.48
1:l:127:MET:HB3	1:l:240:PHE:HB2	1.96	0.48
1:o:127:MET:HB3	1:o:240:PHE:HB2	1.96	0.48
1:o:208:ALA:HA	1:o:211:LYS:HB3	1.95	0.48
1:p:127:MET:HB3	1:p:240:PHE:HB2	1.96	0.48
1:p:244:CYS:SG	1:p:245:GLU:N	2.79	0.48
1:s:128:HIS:HD2	1:s:239:ASN:OD1	1.95	0.48
1:s:208:ALA:HA	1:s:211:LYS:HB3	1.95	0.48
1:t:208:ALA:HA	1:t:211:LYS:HB3	1.95	0.48
1:t:275:ASN:OD1	1:t:388:GLN:NE2	2.46	0.48
1:t:539:LEU:OXT	1:u:419:LYS:NZ	2.44	0.48
1:u:127:MET:HB3	1:u:240:PHE:HB2	1.96	0.48
1:u:275:ASN:OD1	1:u:388:GLN:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:514:ASP:CB	1:u:518:ALA:HB3	2.43	0.48
1:v:69:ASN:OD1	1:v:92:SER:HB3	2.13	0.48
1:w:275:ASN:OD1	1:w:388:GLN:NE2	2.46	0.48
1:z:69:ASN:OD1	1:z:92:SER:HB3	2.13	0.48
1:z:177:VAL:HG12	1:z:178:MET:N	2.29	0.48
1:A:208:ALA:HA	1:A:211:LYS:HB3	1.95	0.48
1:B:197:ILE:HD11	1:L:255:PRO:HD3	1.96	0.48
1:B:313:THR:HG21	1:L:272:ILE:HD11	1.96	0.48
1:D:313:THR:HG21	1:P:272:ILE:HD11	1.95	0.48
1:F:275:ASN:OD1	1:F:388:GLN:NE2	2.46	0.48
1:F:514:ASP:CG	1:F:515:LYS:H	2.21	0.48
1:G:490:PRO:HB3	1:H:113:GLN:OE1	2.14	0.48
1:I:495:THR:HG22	1:I:497:LEU:H	1.78	0.48
1:K:272:ILE:HD11	1:1:313:THR:HG21	1.95	0.48
1:K:514:ASP:CB	1:K:518:ALA:HB3	2.43	0.48
1:L:127:MET:HB3	1:L:240:PHE:HB2	1.96	0.48
1:L:208:ALA:HA	1:L:211:LYS:HB3	1.95	0.48
1:M:208:ALA:HA	1:M:211:LYS:HB3	1.95	0.48
1:N:127:MET:HB3	1:N:240:PHE:HB2	1.96	0.48
1:P:127:MET:HB3	1:P:240:PHE:HB2	1.96	0.48
1:T:197:ILE:HD11	1:f:255:PRO:HD3	1.96	0.48
1:U:127:MET:HB3	1:U:240:PHE:HB2	1.96	0.48
1:V:197:ILE:HD11	1:X:255:PRO:HD3	1.96	0.48
1:W:158:ILE:HD12	1:W:230:LEU:HD12	1.94	0.48
1:W:255:PRO:HD3	1:Y:197:ILE:HD11	1.96	0.48
1:X:69:ASN:OD1	1:X:92:SER:HB3	2.13	0.48
1:1:275:ASN:OD1	1:1:388:GLN:NE2	2.46	0.48
1:2:275:ASN:OD1	1:2:388:GLN:NE2	2.46	0.48
1:3:197:ILE:HD11	1:j:255:PRO:HD3	1.96	0.48
1:4:127:MET:HB3	1:4:240:PHE:HB2	1.96	0.48
1:4:218:PRO:HB2	1:4:220:PHE:CE2	2.47	0.48
1:d:127:MET:HB3	1:d:240:PHE:HB2	1.96	0.48
1:g:177:VAL:HG12	1:g:178:MET:N	2.29	0.48
1:g:208:ALA:HA	1:g:211:LYS:HB3	1.95	0.48
1:g:514:ASP:CB	1:g:518:ALA:HB3	2.43	0.48
1:i:69:ASN:OD1	1:i:92:SER:HB3	2.13	0.48
1:j:275:ASN:OD1	1:j:388:GLN:NE2	2.46	0.48
1:k:197:ILE:HD11	1:m:255:PRO:HD3	1.96	0.48
1:l:69:ASN:OD1	1:l:92:SER:HB3	2.13	0.48
1:m:275:ASN:OD1	1:m:388:GLN:NE2	2.46	0.48
1:n:127:MET:HB3	1:n:240:PHE:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:535:ILE:HG22	1:o:536:ASN:N	2.26	0.48
1:p:158:ILE:HD12	1:p:230:LEU:HD12	1.94	0.48
1:r:69:ASN:OD1	1:r:92:SER:HB3	2.13	0.48
1:r:514:ASP:CB	1:r:518:ALA:HB3	2.43	0.48
1:t:514:ASP:CG	1:t:515:LYS:H	2.21	0.48
1:v:208:ALA:HA	1:v:211:LYS:HB3	1.95	0.48
1:y:177:VAL:HG12	1:y:178:MET:N	2.29	0.48
1:z:514:ASP:CB	1:z:518:ALA:HB3	2.43	0.48
1:7:208:ALA:HA	1:7:211:LYS:HB3	1.95	0.48
1:A:69:ASN:OD1	1:A:92:SER:HB3	2.13	0.48
1:A:205:ASP:CG	1:A:206:SER:H	2.21	0.48
1:F:69:ASN:OD1	1:F:92:SER:HB3	2.13	0.48
1:F:158:ILE:HD12	1:F:230:LEU:HD12	1.94	0.48
1:G:127:MET:HB3	1:G:240:PHE:HB2	1.96	0.48
1:H:177:VAL:HG12	1:H:178:MET:N	2.29	0.48
1:J:177:VAL:HG12	1:J:178:MET:N	2.29	0.48
1:K:127:MET:HB3	1:K:240:PHE:HB2	1.96	0.48
1:K:267:ARG:HG3	1:K:267:ARG:O	2.13	0.48
1:K:514:ASP:CG	1:K:515:LYS:H	2.21	0.48
1:N:275:ASN:OD1	1:N:388:GLN:NE2	2.46	0.48
1:O:177:VAL:HG12	1:O:178:MET:N	2.29	0.48
1:Q:208:ALA:HA	1:Q:211:LYS:HB3	1.95	0.48
1:Q:514:ASP:CG	1:Q:515:LYS:H	2.20	0.48
1:R:177:VAL:HG12	1:R:178:MET:N	2.29	0.48
1:S:495:THR:HG22	1:S:497:LEU:H	1.78	0.48
1:T:267:ARG:HG3	1:T:267:ARG:O	2.13	0.48
1:X:208:ALA:HA	1:X:211:LYS:HB3	1.95	0.48
1:X:275:ASN:OD1	1:X:388:GLN:NE2	2.46	0.48
1:1:205:ASP:CG	1:1:206:SER:H	2.21	0.48
1:2:164:HIS:HD2	1:2:440:HIS:CD2	2.32	0.48
1:4:244:CYS:SG	1:4:245:GLU:N	2.79	0.48
1:6:127:MET:HB3	1:6:240:PHE:HB2	1.96	0.48
1:a:69:ASN:OD1	1:a:92:SER:HB3	2.13	0.48
1:a:205:ASP:CG	1:a:206:SER:H	2.21	0.48
1:d:205:ASP:CG	1:d:206:SER:H	2.21	0.48
1:d:208:ALA:HA	1:d:211:LYS:HB3	1.95	0.48
1:f:267:ARG:HG3	1:f:267:ARG:O	2.13	0.48
1:h:127:MET:HB3	1:h:240:PHE:HB2	1.96	0.48
1:i:205:ASP:CG	1:i:206:SER:H	2.21	0.48
1:j:514:ASP:CB	1:j:518:ALA:HB3	2.43	0.48
1:l:205:ASP:CG	1:l:206:SER:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:535:ILE:HG22	1:l:536:ASN:N	2.26	0.48
1:m:514:ASP:CB	1:m:518:ALA:HB3	2.43	0.48
1:o:255:PRO:HD3	1:p:197:ILE:HD11	1.96	0.48
1:q:313:THR:HG21	1:s:272:ILE:HD11	1.95	0.48
1:r:164:HIS:HD2	1:r:440:HIS:CD2	2.32	0.48
1:r:275:ASN:OD1	1:r:388:GLN:NE2	2.46	0.48
1:t:69:ASN:OD1	1:t:92:SER:HB3	2.13	0.48
1:t:313:THR:HG21	1:v:272:ILE:HD11	1.96	0.48
1:v:514:ASP:CG	1:v:515:LYS:H	2.21	0.48
1:w:495:THR:HG22	1:w:497:LEU:H	1.78	0.48
1:x:177:VAL:HG12	1:x:178:MET:N	2.29	0.48
1:z:208:ALA:HA	1:z:211:LYS:HB3	1.95	0.48
1:7:127:MET:HB3	1:7:240:PHE:HB2	1.96	0.48
1:A:267:ARG:HG3	1:A:267:ARG:O	2.13	0.48
1:B:514:ASP:CB	1:B:518:ALA:HB3	2.43	0.48
1:C:313:THR:HG21	1:M:272:ILE:HD11	1.95	0.48
1:D:69:ASN:OD1	1:D:92:SER:HB3	2.13	0.48
1:D:177:VAL:HG12	1:D:178:MET:N	2.29	0.48
1:D:197:ILE:HD11	1:P:255:PRO:HD3	1.96	0.48
1:E:419:LYS:NZ	1:F:539:LEU:OXT	2.44	0.48
1:H:208:ALA:HA	1:H:211:LYS:HB3	1.95	0.48
1:I:267:ARG:HG3	1:I:267:ARG:O	2.13	0.48
1:J:90:CYS:SG	1:J:91:VAL:N	2.79	0.48
1:N:255:PRO:HD3	1:P:197:ILE:HD11	1.96	0.48
1:O:127:MET:HB3	1:O:240:PHE:HB2	1.96	0.48
1:P:495:THR:HG22	1:P:497:LEU:H	1.78	0.48
1:R:90:CYS:SG	1:R:91:VAL:N	2.79	0.48
1:R:275:ASN:OD1	1:R:388:GLN:NE2	2.46	0.48
1:S:164:HIS:HD2	1:S:440:HIS:CD2	2.32	0.48
1:T:205:ASP:CG	1:T:206:SER:H	2.21	0.48
1:W:275:ASN:OD1	1:W:388:GLN:NE2	2.46	0.48
1:X:218:PRO:HB2	1:X:220:PHE:CE2	2.47	0.48
1:Z:127:MET:HB3	1:Z:240:PHE:HB2	1.96	0.48
1:1:267:ARG:HG3	1:1:267:ARG:O	2.13	0.48
1:1:535:ILE:HG22	1:1:536:ASN:N	2.26	0.48
1:3:514:ASP:CG	1:3:515:LYS:H	2.20	0.48
1:5:177:VAL:HG12	1:5:178:MET:N	2.29	0.48
1:6:313:THR:HG21	1:a:272:ILE:HD11	1.95	0.48
1:a:177:VAL:HG12	1:a:178:MET:N	2.29	0.48
1:a:208:ALA:HA	1:a:211:LYS:HB3	1.95	0.48
1:b:177:VAL:HG12	1:b:178:MET:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:90:CYS:SG	1:c:91:VAL:N	2.79	0.48
1:c:177:VAL:HG12	1:c:178:MET:N	2.29	0.48
1:e:514:ASP:CB	1:e:518:ALA:HB3	2.43	0.48
1:f:127:MET:HB3	1:f:240:PHE:HB2	1.96	0.48
1:f:208:ALA:HA	1:f:211:LYS:HB3	1.95	0.48
1:f:514:ASP:CB	1:f:518:ALA:HB3	2.43	0.48
1:f:514:ASP:CG	1:f:515:LYS:H	2.21	0.48
1:g:127:MET:HB3	1:g:240:PHE:HB2	1.96	0.48
1:j:208:ALA:HA	1:j:211:LYS:HB3	1.95	0.48
1:j:244:CYS:SG	1:j:245:GLU:N	2.79	0.48
1:k:514:ASP:CG	1:k:515:LYS:H	2.20	0.48
1:n:255:PRO:HD3	1:o:197:ILE:HD11	1.96	0.48
1:n:275:ASN:OD1	1:n:388:GLN:NE2	2.46	0.48
1:p:177:VAL:HG12	1:p:178:MET:N	2.29	0.48
1:u:267:ARG:HG3	1:u:267:ARG:O	2.14	0.48
1:u:495:THR:HG22	1:u:497:LEU:H	1.78	0.48
1:v:177:VAL:HG12	1:v:178:MET:N	2.29	0.48
1:w:164:HIS:HD2	1:w:440:HIS:CD2	2.32	0.48
1:w:507:ILE:CG2	1:w:508:ASN:H	2.22	0.48
1:x:275:ASN:OD1	1:x:388:GLN:NE2	2.46	0.48
1:y:127:MET:HB3	1:y:240:PHE:HB2	1.96	0.48
1:8:127:MET:HB3	1:8:240:PHE:HB2	1.96	0.48
1:8:218:PRO:HB2	1:8:220:PHE:CE2	2.47	0.48
1:A:177:VAL:HG12	1:A:178:MET:N	2.29	0.48
1:E:267:ARG:HG3	1:E:267:ARG:O	2.13	0.48
1:E:495:THR:HG22	1:E:497:LEU:H	1.78	0.48
1:F:313:THR:HG21	1:Q:272:ILE:HD11	1.96	0.48
1:I:177:VAL:HG12	1:I:178:MET:N	2.29	0.48
1:I:275:ASN:OD1	1:I:388:GLN:NE2	2.46	0.48
1:L:267:ARG:HG3	1:L:267:ARG:O	2.13	0.48
1:L:495:THR:HG22	1:L:497:LEU:H	1.78	0.48
1:P:535:ILE:HG22	1:P:536:ASN:N	2.26	0.48
1:Q:177:VAL:HG12	1:Q:178:MET:N	2.29	0.48
1:R:69:ASN:OD1	1:R:92:SER:HB3	2.13	0.48
1:R:370:ILE:HG22	1:R:371:SER:N	2.29	0.48
1:T:177:VAL:HG12	1:T:178:MET:N	2.29	0.48
1:W:127:MET:HB3	1:W:240:PHE:HB2	1.96	0.48
1:W:208:ALA:HA	1:W:211:LYS:HB3	1.95	0.48
1:W:218:PRO:HB2	1:W:220:PHE:CE2	2.47	0.48
1:1:177:VAL:HG12	1:1:178:MET:N	2.29	0.48
1:1:208:ALA:HA	1:1:211:LYS:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:208:ALA:HA	1:2:211:LYS:HB3	1.95	0.48
1:2:267:ARG:HG3	1:2:267:ARG:O	2.13	0.48
1:6:272:ILE:HD11	1:b:313:THR:HG21	1.95	0.48
1:a:267:ARG:O	1:a:267:ARG:HG3	2.13	0.48
1:b:275:ASN:OD1	1:b:388:GLN:NE2	2.46	0.48
1:d:267:ARG:HG3	1:d:267:ARG:O	2.13	0.48
1:h:495:THR:HG22	1:h:497:LEU:H	1.78	0.48
1:j:90:CYS:SG	1:j:91:VAL:N	2.79	0.48
1:j:164:HIS:HD2	1:j:440:HIS:CD2	2.32	0.48
1:j:275:ASN:CB	1:j:276:GLY:HA3	2.41	0.48
1:m:208:ALA:HA	1:m:211:LYS:HB3	1.95	0.48
1:o:272:ILE:HD11	1:p:313:THR:HG21	1.95	0.48
1:o:514:ASP:CB	1:o:518:ALA:HB3	2.43	0.48
1:t:158:ILE:HD12	1:t:230:LEU:HD12	1.94	0.48
1:v:127:MET:HB3	1:v:240:PHE:HB2	1.96	0.48
1:v:216:GLN:O	1:v:217:ILE:HG13	2.14	0.48
1:w:205:ASP:CG	1:w:206:SER:H	2.21	0.48
1:x:216:GLN:O	1:x:217:ILE:HG13	2.14	0.48
1:z:127:MET:HB3	1:z:240:PHE:HB2	1.96	0.48
1:z:267:ARG:HG3	1:z:267:ARG:O	2.13	0.48
1:8:514:ASP:CB	1:8:518:ALA:HB3	2.43	0.48
1:G:275:ASN:OD1	1:G:388:GLN:NE2	2.46	0.48
1:G:370:ILE:HG22	1:G:371:SER:N	2.29	0.48
1:K:197:ILE:HD11	1:8:255:PRO:HD3	1.96	0.48
1:K:208:ALA:HA	1:K:211:LYS:HB3	1.95	0.48
1:L:514:ASP:CB	1:L:518:ALA:HB3	2.43	0.48
1:M:275:ASN:OD1	1:M:388:GLN:NE2	2.46	0.48
1:Q:127:MET:HB3	1:Q:240:PHE:HB2	1.96	0.48
1:Q:216:GLN:O	1:Q:217:ILE:HG13	2.14	0.48
1:R:216:GLN:O	1:R:217:ILE:HG13	2.14	0.48
1:S:205:ASP:CG	1:S:206:SER:H	2.21	0.48
1:S:514:ASP:CB	1:S:518:ALA:HB3	2.43	0.48
1:T:535:ILE:HG22	1:T:536:ASN:N	2.26	0.48
1:X:177:VAL:HG12	1:X:178:MET:N	2.29	0.48
1:Z:164:HIS:HD2	1:Z:440:HIS:CD2	2.32	0.48
1:1:69:ASN:OD1	1:1:92:SER:HB3	2.13	0.48
1:3:539:LEU:OXT	1:i:419:LYS:NZ	2.44	0.48
1:4:255:PRO:HD3	1:f:197:ILE:HD11	1.96	0.48
1:4:535:ILE:HG22	1:4:536:ASN:N	2.26	0.48
1:6:197:ILE:HD11	1:a:255:PRO:HD3	1.96	0.48
1:6:370:ILE:HG22	1:6:371:SER:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:514:ASP:CB	1:6:518:ALA:HB3	2.43	0.48
1:d:495:THR:HG22	1:d:497:LEU:H	1.78	0.48
1:e:267:ARG:HG3	1:e:267:ARG:O	2.13	0.48
1:i:370:ILE:HG22	1:i:371:SER:N	2.29	0.48
1:j:177:VAL:HG12	1:j:178:MET:N	2.29	0.48
1:l:370:ILE:HG22	1:l:371:SER:N	2.29	0.48
1:l:495:THR:HG22	1:l:497:LEU:H	1.78	0.48
1:o:495:THR:HG22	1:o:497:LEU:H	1.78	0.48
1:p:275:ASN:OD1	1:p:388:GLN:NE2	2.46	0.48
1:q:267:ARG:O	1:q:267:ARG:HG3	2.13	0.48
1:r:208:ALA:HA	1:r:211:LYS:HB3	1.95	0.48
1:w:514:ASP:CB	1:w:518:ALA:HB3	2.43	0.48
1:x:69:ASN:OD1	1:x:92:SER:HB3	2.13	0.48
1:x:370:ILE:HG22	1:x:371:SER:N	2.29	0.48
1:y:69:ASN:OD1	1:y:92:SER:HB3	2.13	0.48
1:z:495:THR:HG22	1:z:497:LEU:H	1.78	0.48
1:7:495:THR:HG22	1:7:497:LEU:H	1.78	0.48
1:8:69:ASN:OD1	1:8:92:SER:HB3	2.13	0.48
1:A:255:PRO:HD3	1:G:197:ILE:HD11	1.96	0.48
1:D:164:HIS:HD2	1:D:440:HIS:CD2	2.32	0.48
1:D:208:ALA:HA	1:D:211:LYS:HB3	1.95	0.48
1:D:275:ASN:OD1	1:D:388:GLN:NE2	2.46	0.48
1:E:164:HIS:HD2	1:E:440:HIS:CD2	2.32	0.48
1:G:514:ASP:CB	1:G:518:ALA:HB3	2.43	0.48
1:L:216:GLN:O	1:L:217:ILE:HG13	2.14	0.48
1:M:495:THR:HG22	1:M:497:LEU:H	1.78	0.48
1:O:69:ASN:OD1	1:O:92:SER:HB3	2.13	0.48
1:P:514:ASP:CB	1:P:518:ALA:HB3	2.43	0.48
1:S:379:ARG:HG2	1:S:406:ASP:OD1	2.14	0.48
1:T:69:ASN:OD1	1:T:92:SER:HB3	2.13	0.48
1:T:164:HIS:HD2	1:T:440:HIS:CD2	2.32	0.48
1:T:208:ALA:HA	1:T:211:LYS:HB3	1.95	0.48
1:T:370:ILE:HG22	1:T:371:SER:N	2.29	0.48
1:X:127:MET:HB3	1:X:240:PHE:HB2	1.96	0.48
1:1:370:ILE:HG22	1:1:371:SER:N	2.29	0.48
1:2:127:MET:HB3	1:2:240:PHE:HB2	1.96	0.48
1:4:177:VAL:HG12	1:4:178:MET:N	2.29	0.48
1:4:208:ALA:HA	1:4:211:LYS:HB3	1.95	0.48
1:4:514:ASP:CB	1:4:518:ALA:HB3	2.43	0.48
1:5:208:ALA:HA	1:5:211:LYS:HB3	1.95	0.48
1:6:275:ASN:OD1	1:6:388:GLN:NE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:275:ASN:OD1	1:c:388:GLN:NE2	2.46	0.48
1:g:267:ARG:HG3	1:g:267:ARG:O	2.13	0.48
1:g:272:ILE:HD11	1:h:313:THR:HG21	1.95	0.48
1:g:275:ASN:CB	1:g:276:GLY:HA3	2.41	0.48
1:g:495:THR:HG22	1:g:497:LEU:H	1.78	0.48
1:h:370:ILE:HG22	1:h:371:SER:N	2.29	0.48
1:i:255:PRO:HD3	1:j:197:ILE:HD11	1.96	0.48
1:i:267:ARG:O	1:i:267:ARG:HG3	2.13	0.48
1:l:255:PRO:HD3	1:m:197:ILE:HD11	1.96	0.48
1:m:127:MET:HB3	1:m:240:PHE:HB2	1.96	0.48
1:m:164:HIS:HD2	1:m:440:HIS:CD2	2.32	0.48
1:m:177:VAL:HG12	1:m:178:MET:N	2.29	0.48
1:m:275:ASN:CB	1:m:276:GLY:HA3	2.41	0.48
1:n:197:ILE:HD11	1:p:255:PRO:HD3	1.96	0.48
1:n:272:ILE:HD11	1:o:313:THR:HG21	1.95	0.48
1:o:216:GLN:O	1:o:217:ILE:HG13	2.14	0.48
1:o:267:ARG:HG3	1:o:267:ARG:O	2.13	0.48
1:p:69:ASN:OD1	1:p:92:SER:HB3	2.13	0.48
1:p:164:HIS:HD2	1:p:440:HIS:CD2	2.32	0.48
1:p:208:ALA:HA	1:p:211:LYS:HB3	1.95	0.48
1:p:267:ARG:HG3	1:p:267:ARG:O	2.13	0.48
1:r:267:ARG:HG3	1:r:267:ARG:O	2.13	0.48
1:s:275:ASN:OD1	1:s:388:GLN:NE2	2.46	0.48
1:s:495:THR:HG22	1:s:497:LEU:H	1.78	0.48
1:z:272:ILE:HD11	1:7:313:THR:HG21	1.95	0.48
1:z:276:GLY:O	1:z:278:THR:OG1	2.24	0.48
1:8:177:VAL:HG12	1:8:178:MET:N	2.29	0.48
1:8:208:ALA:HA	1:8:211:LYS:HB3	1.95	0.48
1:B:267:ARG:HG3	1:B:267:ARG:O	2.13	0.47
1:B:370:ILE:HG22	1:B:371:SER:N	2.29	0.47
1:C:208:ALA:HA	1:C:211:LYS:HB3	1.95	0.47
1:C:267:ARG:O	1:C:267:ARG:HG3	2.13	0.47
1:D:244:CYS:SG	1:D:245:GLU:N	2.79	0.47
1:D:267:ARG:HG3	1:D:267:ARG:O	2.13	0.47
1:D:379:ARG:HG2	1:D:406:ASP:OD1	2.14	0.47
1:D:535:ILE:HG22	1:D:536:ASN:N	2.26	0.47
1:F:164:HIS:HD2	1:F:440:HIS:CD2	2.32	0.47
1:H:370:ILE:HG22	1:H:371:SER:N	2.29	0.47
1:J:370:ILE:HG22	1:J:371:SER:N	2.29	0.47
1:N:177:VAL:HG12	1:N:178:MET:N	2.29	0.47
1:N:272:ILE:HD11	1:P:313:THR:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:164:HIS:HD2	1:O:440:HIS:CD2	2.32	0.47
1:P:267:ARG:HG3	1:P:267:ARG:O	2.13	0.47
1:W:164:HIS:HD2	1:W:440:HIS:CD2	2.32	0.47
1:W:177:VAL:HG12	1:W:178:MET:N	2.29	0.47
1:1:164:HIS:HD2	1:1:440:HIS:CD2	2.32	0.47
1:3:164:HIS:HD2	1:3:440:HIS:CD2	2.32	0.47
1:3:208:ALA:HA	1:3:211:LYS:HB3	1.95	0.47
1:4:69:ASN:OD1	1:4:92:SER:HB3	2.13	0.47
1:4:216:GLN:O	1:4:217:ILE:HG13	2.14	0.47
1:5:370:ILE:HG22	1:5:371:SER:N	2.29	0.47
1:6:379:ARG:HG2	1:6:406:ASP:OD1	2.14	0.47
1:a:197:ILE:HD11	1:b:255:PRO:HD3	1.96	0.47
1:c:370:ILE:HG22	1:c:371:SER:N	2.29	0.47
1:d:216:GLN:O	1:d:217:ILE:HG13	2.14	0.47
1:d:514:ASP:CB	1:d:518:ALA:HB3	2.43	0.47
1:e:275:ASN:OD1	1:e:388:GLN:NE2	2.46	0.47
1:e:370:ILE:HG22	1:e:371:SER:N	2.29	0.47
1:i:495:THR:HG22	1:i:497:LEU:H	1.78	0.47
1:j:127:MET:HB3	1:j:240:PHE:HB2	1.96	0.47
1:k:275:ASN:CB	1:k:276:GLY:HA3	2.41	0.47
1:p:379:ARG:HG2	1:p:406:ASP:OD1	2.14	0.47
1:r:127:MET:HB3	1:r:240:PHE:HB2	1.96	0.47
1:v:370:ILE:HG22	1:v:371:SER:N	2.29	0.47
1:w:379:ARG:HG2	1:w:406:ASP:OD1	2.14	0.47
1:x:208:ALA:HA	1:x:211:LYS:HB3	1.95	0.47
1:z:158:ILE:HD12	1:z:230:LEU:HD12	1.94	0.47
1:7:177:VAL:HG12	1:7:178:MET:N	2.29	0.47
1:7:370:ILE:HG22	1:7:371:SER:N	2.29	0.47
1:8:379:ARG:HG2	1:8:406:ASP:OD1	2.15	0.47
1:A:197:ILE:HD11	1:I:255:PRO:HD3	1.96	0.47
1:A:379:ARG:HG2	1:A:406:ASP:OD1	2.14	0.47
1:B:275:ASN:OD1	1:B:388:GLN:NE2	2.46	0.47
1:D:255:PRO:HD3	1:N:197:ILE:HD11	1.96	0.47
1:E:313:THR:HG21	1:F:272:ILE:HD11	1.95	0.47
1:G:182:PRO:HD2	1:W:221:MET:HE1	1.96	0.47
1:G:379:ARG:HG2	1:G:406:ASP:OD1	2.15	0.47
1:H:164:HIS:HD2	1:H:440:HIS:CD2	2.32	0.47
1:H:469:THR:HG21	1:I:453:PRO:HD2	1.96	0.47
1:J:275:ASN:OD1	1:J:388:GLN:NE2	2.46	0.47
1:K:216:GLN:O	1:K:217:ILE:HG13	2.14	0.47
1:L:177:VAL:HG12	1:L:178:MET:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:164:HIS:HD2	1:M:440:HIS:CD2	2.32	0.47
1:N:216:GLN:O	1:N:217:ILE:HG13	2.14	0.47
1:P:216:GLN:O	1:P:217:ILE:HG13	2.14	0.47
1:Q:275:ASN:OD1	1:Q:388:GLN:NE2	2.46	0.47
1:Q:370:ILE:HG22	1:Q:371:SER:N	2.29	0.47
1:R:272:ILE:HD11	1:S:313:THR:HG21	1.95	0.47
1:U:164:HIS:HD2	1:U:440:HIS:CD2	2.32	0.47
1:X:164:HIS:HD2	1:X:440:HIS:CD2	2.32	0.47
1:Z:313:THR:HG21	1:w:272:ILE:HD11	1.95	0.47
1:3:275:ASN:CB	1:3:276:GLY:HA3	2.41	0.47
1:4:379:ARG:HG2	1:4:406:ASP:OD1	2.15	0.47
1:5:267:ARG:HG3	1:5:267:ARG:O	2.13	0.47
1:d:177:VAL:HG12	1:d:178:MET:N	2.29	0.47
1:f:177:VAL:HG12	1:f:178:MET:N	2.29	0.47
1:g:379:ARG:HG2	1:g:406:ASP:OD1	2.15	0.47
1:h:177:VAL:HG12	1:h:178:MET:N	2.29	0.47
1:k:164:HIS:HD2	1:k:440:HIS:CD2	2.32	0.47
1:k:208:ALA:HA	1:k:211:LYS:HB3	1.95	0.47
1:l:267:ARG:HG3	1:l:267:ARG:O	2.13	0.47
1:m:244:CYS:SG	1:m:245:GLU:N	2.79	0.47
1:n:177:VAL:HG12	1:n:178:MET:N	2.29	0.47
1:p:514:ASP:CB	1:p:518:ALA:HB3	2.43	0.47
1:q:208:ALA:HA	1:q:211:LYS:HB3	1.95	0.47
1:q:275:ASN:OD1	1:q:388:GLN:NE2	2.46	0.47
1:t:164:HIS:HD2	1:t:440:HIS:CD2	2.32	0.47
1:u:164:HIS:HD2	1:u:440:HIS:CD2	2.32	0.47
1:v:275:ASN:OD1	1:v:388:GLN:NE2	2.46	0.47
1:w:313:THR:HG21	1:x:272:ILE:HD11	1.95	0.47
1:y:453:PRO:HD2	1:8:469:THR:HG21	1.97	0.47
1:z:275:ASN:CB	1:z:276:GLY:HA3	2.41	0.47
1:z:379:ARG:HG2	1:z:406:ASP:OD1	2.15	0.47
1:8:216:GLN:O	1:8:217:ILE:HG13	2.14	0.47
1:B:272:ILE:HD11	1:J:313:THR:HG21	1.95	0.47
1:C:127:MET:HB3	1:C:240:PHE:HB2	1.96	0.47
1:C:177:VAL:HG12	1:C:178:MET:N	2.29	0.47
1:C:272:ILE:HD11	1:2:313:THR:HG21	1.95	0.47
1:D:216:GLN:O	1:D:217:ILE:HG13	2.14	0.47
1:E:197:ILE:HD11	1:F:255:PRO:HD3	1.96	0.47
1:F:127:MET:HB3	1:F:240:PHE:HB2	1.96	0.47
1:G:208:ALA:HA	1:G:211:LYS:HB3	1.95	0.47
1:G:267:ARG:HG3	1:G:267:ARG:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:164:HIS:HD2	1:J:440:HIS:CD2	2.32	0.47
1:J:272:ILE:HD11	1:L:313:THR:HG21	1.95	0.47
1:K:177:VAL:HG12	1:K:178:MET:N	2.29	0.47
1:L:275:ASN:CB	1:L:276:GLY:HA3	2.41	0.47
1:M:370:ILE:HG22	1:M:371:SER:N	2.29	0.47
1:O:208:ALA:HA	1:O:211:LYS:HB3	1.95	0.47
1:O:216:GLN:O	1:O:217:ILE:HG13	2.14	0.47
1:P:370:ILE:HG22	1:P:371:SER:N	2.29	0.47
1:R:127:MET:HB3	1:R:240:PHE:HB2	1.96	0.47
1:R:208:ALA:HA	1:R:211:LYS:HB3	1.95	0.47
1:R:379:ARG:HG2	1:R:406:ASP:OD1	2.15	0.47
1:S:272:ILE:HD11	1:U:313:THR:HG21	1.95	0.47
1:S:370:ILE:HG22	1:S:371:SER:N	2.29	0.47
1:Y:216:GLN:O	1:Y:217:ILE:HG13	2.14	0.47
1:2:216:GLN:O	1:2:217:ILE:HG13	2.14	0.47
1:5:164:HIS:HD2	1:5:440:HIS:CD2	2.32	0.47
1:5:379:ARG:HG2	1:5:406:ASP:OD1	2.15	0.47
1:6:164:HIS:HD2	1:6:440:HIS:CD2	2.32	0.47
1:6:216:GLN:O	1:6:217:ILE:HG13	2.14	0.47
1:a:379:ARG:HG2	1:a:406:ASP:OD1	2.14	0.47
1:c:272:ILE:HD11	1:d:313:THR:HG21	1.95	0.47
1:g:158:ILE:HD12	1:g:230:LEU:HD12	1.94	0.47
1:n:216:GLN:O	1:n:217:ILE:HG13	2.14	0.47
1:o:164:HIS:HD2	1:o:440:HIS:CD2	2.32	0.47
1:p:216:GLN:O	1:p:217:ILE:HG13	2.14	0.47
1:q:127:MET:HB3	1:q:240:PHE:HB2	1.96	0.47
1:r:216:GLN:O	1:r:217:ILE:HG13	2.14	0.47
1:s:164:HIS:HD2	1:s:440:HIS:CD2	2.32	0.47
1:s:370:ILE:HG22	1:s:371:SER:N	2.29	0.47
1:t:127:MET:HB3	1:t:240:PHE:HB2	1.96	0.47
1:t:272:ILE:HD11	1:u:313:THR:HG21	1.95	0.47
1:v:164:HIS:HD2	1:v:440:HIS:CD2	2.32	0.47
1:w:177:VAL:HG12	1:w:178:MET:N	2.29	0.47
1:w:370:ILE:HG22	1:w:371:SER:N	2.29	0.47
1:y:164:HIS:HD2	1:y:440:HIS:CD2	2.32	0.47
1:y:197:ILE:HD11	1:7:255:PRO:HD3	1.96	0.47
1:y:208:ALA:HA	1:y:211:LYS:HB3	1.95	0.47
1:y:216:GLN:O	1:y:217:ILE:HG13	2.14	0.47
1:z:164:HIS:HD2	1:z:440:HIS:CD2	2.32	0.47
1:8:244:CYS:SG	1:8:245:GLU:N	2.79	0.47
1:8:535:ILE:HG22	1:8:536:ASN:N	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:199:GLU:O	1:B:200:LEU:HB2	2.15	0.47
1:C:255:PRO:HD3	1:2:197:ILE:HD11	1.96	0.47
1:C:275:ASN:OD1	1:C:388:GLN:NE2	2.46	0.47
1:D:514:ASP:CB	1:D:518:ALA:HB3	2.43	0.47
1:E:177:VAL:HG12	1:E:178:MET:N	2.29	0.47
1:E:216:GLN:O	1:E:217:ILE:HG13	2.14	0.47
1:E:255:PRO:HD3	1:Q:197:ILE:HD11	1.96	0.47
1:F:216:GLN:O	1:F:217:ILE:HG13	2.14	0.47
1:G:216:GLN:O	1:G:217:ILE:HG13	2.14	0.47
1:H:267:ARG:HG3	1:H:267:ARG:O	2.13	0.47
1:H:379:ARG:HG2	1:H:406:ASP:OD1	2.15	0.47
1:K:164:HIS:HD2	1:K:440:HIS:CD2	2.32	0.47
1:M:197:ILE:HD11	1:2:255:PRO:HD3	1.96	0.47
1:N:370:ILE:HG22	1:N:371:SER:N	2.29	0.47
1:P:164:HIS:HD2	1:P:440:HIS:CD2	2.32	0.47
1:Q:164:HIS:HD2	1:Q:440:HIS:CD2	2.32	0.47
1:R:197:ILE:HD11	1:U:255:PRO:HD3	1.96	0.47
1:R:347:PRO:O	1:R:348:THR:OG1	2.23	0.47
1:S:177:VAL:HG12	1:S:178:MET:N	2.29	0.47
1:S:255:PRO:HD3	1:U:197:ILE:HD11	1.96	0.47
1:T:255:PRO:HD3	1:4:197:ILE:HD11	1.96	0.47
1:V:127:MET:HB3	1:V:240:PHE:HB2	1.96	0.47
1:V:216:GLN:O	1:V:217:ILE:HG13	2.14	0.47
1:X:216:GLN:O	1:X:217:ILE:HG13	2.14	0.47
1:Z:216:GLN:O	1:Z:217:ILE:HG13	2.14	0.47
1:Z:255:PRO:HD3	1:x:197:ILE:HD11	1.96	0.47
1:3:267:ARG:O	1:3:267:ARG:HG3	2.13	0.47
1:3:272:ILE:HD11	1:i:313:THR:HG21	1.95	0.47
1:6:208:ALA:HA	1:6:211:LYS:HB3	1.95	0.47
1:6:267:ARG:O	1:6:267:ARG:HG3	2.13	0.47
1:a:127:MET:HB3	1:a:240:PHE:HB2	1.96	0.47
1:c:164:HIS:HD2	1:c:440:HIS:CD2	2.32	0.47
1:c:208:ALA:HA	1:c:211:LYS:HB3	1.95	0.47
1:e:199:GLU:O	1:e:200:LEU:HB2	2.15	0.47
1:e:208:ALA:HA	1:e:211:LYS:HB3	1.95	0.47
1:e:379:ARG:HG2	1:e:406:ASP:OD1	2.15	0.47
1:f:216:GLN:O	1:f:217:ILE:HG13	2.14	0.47
1:g:255:PRO:HD3	1:h:197:ILE:HD11	1.96	0.47
1:h:267:ARG:HG3	1:h:267:ARG:O	2.13	0.47
1:h:379:ARG:HG2	1:h:406:ASP:OD1	2.14	0.47
1:i:164:HIS:HD2	1:i:440:HIS:CD2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:127:MET:HB3	1:k:240:PHE:HB2	1.96	0.47
1:k:255:PRO:HD3	1:l:197:ILE:HD11	1.96	0.47
1:k:267:ARG:HG3	1:k:267:ARG:O	2.13	0.47
1:n:208:ALA:HA	1:n:211:LYS:HB3	1.95	0.47
1:n:495:THR:HG22	1:n:497:LEU:H	1.78	0.47
1:o:370:ILE:HG22	1:o:371:SER:N	2.29	0.47
1:p:535:ILE:HG22	1:p:536:ASN:N	2.26	0.47
1:q:177:VAL:HG12	1:q:178:MET:N	2.29	0.47
1:q:255:PRO:HD3	1:r:197:ILE:HD11	1.96	0.47
1:q:272:ILE:HD11	1:r:313:THR:HG21	1.95	0.47
1:t:216:GLN:O	1:t:217:ILE:HG13	2.14	0.47
1:u:216:GLN:O	1:u:217:ILE:HG13	2.14	0.47
1:w:208:ALA:HA	1:w:211:LYS:HB3	1.95	0.47
1:x:127:MET:HB3	1:x:240:PHE:HB2	1.96	0.47
1:x:379:ARG:HG2	1:x:406:ASP:OD1	2.15	0.47
1:y:313:THR:HG21	1:7:272:ILE:HD11	1.96	0.47
1:A:127:MET:HB3	1:A:240:PHE:HB2	1.96	0.47
1:B:127:MET:HB3	1:B:240:PHE:HB2	1.96	0.47
1:B:208:ALA:HA	1:B:211:LYS:HB3	1.95	0.47
1:B:379:ARG:HG2	1:B:406:ASP:OD1	2.15	0.47
1:C:164:HIS:HD2	1:C:440:HIS:CD2	2.32	0.47
1:F:514:ASP:CB	1:F:518:ALA:HB3	2.43	0.47
1:G:164:HIS:HD2	1:G:440:HIS:CD2	2.32	0.47
1:H:275:ASN:OD1	1:H:388:GLN:NE2	2.46	0.47
1:I:266:THR:HB	1:I:290:LYS:NZ	2.30	0.47
1:J:208:ALA:HA	1:J:211:LYS:HB3	1.95	0.47
1:J:469:THR:HG21	1:1:453:PRO:HD2	1.97	0.47
1:N:208:ALA:HA	1:N:211:LYS:HB3	1.95	0.47
1:S:216:GLN:O	1:S:217:ILE:HG13	2.14	0.47
1:T:266:THR:HB	1:T:290:LYS:NZ	2.30	0.47
1:T:453:PRO:HD2	1:c:469:THR:HG21	1.97	0.47
1:W:216:GLN:O	1:W:217:ILE:HG13	2.14	0.47
1:X:370:ILE:HG22	1:X:371:SER:N	2.29	0.47
1:1:266:THR:HB	1:1:290:LYS:NZ	2.30	0.47
1:1:379:ARG:HG2	1:1:406:ASP:OD1	2.14	0.47
1:3:255:PRO:HD3	1:i:197:ILE:HD11	1.96	0.47
1:4:272:ILE:HD11	1:f:313:THR:HG21	1.95	0.47
1:5:275:ASN:OD1	1:5:388:GLN:NE2	2.46	0.47
1:6:177:VAL:HG12	1:6:178:MET:N	2.29	0.47
1:6:255:PRO:HD3	1:b:197:ILE:HD11	1.96	0.47
1:d:266:THR:HB	1:d:290:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:127:MET:HB3	1:e:240:PHE:HB2	1.96	0.47
1:f:164:HIS:HD2	1:f:440:HIS:CD2	2.32	0.47
1:g:164:HIS:HD2	1:g:440:HIS:CD2	2.32	0.47
1:h:216:GLN:O	1:h:217:ILE:HG13	2.14	0.47
1:j:266:THR:HB	1:j:290:LYS:NZ	2.30	0.47
1:j:469:THR:HG21	1:k:453:PRO:HD2	1.97	0.47
1:k:272:ILE:HD11	1:l:313:THR:HG21	1.95	0.47
1:l:164:HIS:HD2	1:l:440:HIS:CD2	2.32	0.47
1:n:370:ILE:HG22	1:n:371:SER:N	2.29	0.47
1:t:514:ASP:CB	1:t:518:ALA:HB3	2.43	0.47
1:w:216:GLN:O	1:w:217:ILE:HG13	2.14	0.47
1:y:255:PRO:HD3	1:z:197:ILE:HD11	1.96	0.47
1:z:255:PRO:HD3	1:7:197:ILE:HD11	1.96	0.47
1:7:379:ARG:HG2	1:7:406:ASP:OD1	2.14	0.47
1:A:313:THR:HG21	1:I:272:ILE:HD11	1.95	0.47
1:G:133:ASN:ND2	1:W:229:VAL:HG21	2.29	0.47
1:G:183:TYR:CD2	1:W:221:MET:HE3	2.49	0.47
1:H:216:GLN:O	1:H:217:ILE:HG13	2.14	0.47
1:H:266:THR:HB	1:H:290:LYS:NZ	2.30	0.47
1:J:127:MET:HB3	1:J:240:PHE:HB2	1.96	0.47
1:K:514:ASP:HB2	1:K:518:ALA:HB3	1.97	0.47
1:L:266:THR:HB	1:L:290:LYS:NZ	2.30	0.47
1:M:267:ARG:HG3	1:M:267:ARG:O	2.13	0.47
1:M:313:THR:HG21	1:2:272:ILE:HD11	1.95	0.47
1:N:164:HIS:HD2	1:N:440:HIS:CD2	2.32	0.47
1:N:495:THR:HG22	1:N:497:LEU:H	1.78	0.47
1:O:197:ILE:HD11	1:h:255:PRO:HD3	1.96	0.47
1:Q:495:THR:HG22	1:Q:497:LEU:H	1.78	0.47
1:R:199:GLU:O	1:R:200:LEU:HB2	2.15	0.47
1:S:208:ALA:HA	1:S:211:LYS:HB3	1.95	0.47
1:T:379:ARG:HG2	1:T:406:ASP:OD1	2.15	0.47
1:U:216:GLN:O	1:U:217:ILE:HG13	2.14	0.47
1:W:370:ILE:HG22	1:W:371:SER:N	2.29	0.47
1:Y:127:MET:HB3	1:Y:240:PHE:HB2	1.96	0.47
1:1:255:PRO:HD3	1:8:197:ILE:HD11	1.96	0.47
1:2:275:ASN:CB	1:2:276:GLY:HA3	2.41	0.47
1:3:127:MET:HB3	1:3:240:PHE:HB2	1.96	0.47
1:3:216:GLN:O	1:3:217:ILE:HG13	2.14	0.47
1:3:453:PRO:HD2	1:m:469:THR:HG21	1.97	0.47
1:5:216:GLN:O	1:5:217:ILE:HG13	2.14	0.47
1:a:199:GLU:O	1:a:200:LEU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:266:THR:HB	1:b:290:LYS:NZ	2.30	0.47
1:c:127:MET:HB3	1:c:240:PHE:HB2	1.96	0.47
1:c:313:THR:HG21	1:e:272:ILE:HD11	1.95	0.47
1:d:164:HIS:HD2	1:d:440:HIS:CD2	2.32	0.47
1:d:275:ASN:CB	1:d:276:GLY:HA3	2.41	0.47
1:g:216:GLN:O	1:g:217:ILE:HG13	2.14	0.47
1:h:164:HIS:HD2	1:h:440:HIS:CD2	2.32	0.47
1:j:379:ARG:HG2	1:j:406:ASP:OD1	2.15	0.47
1:l:379:ARG:HG2	1:l:406:ASP:OD1	2.15	0.47
1:m:90:CYS:SG	1:m:91:VAL:N	2.79	0.47
1:m:266:THR:HB	1:m:290:LYS:NZ	2.30	0.47
1:m:379:ARG:HG2	1:m:406:ASP:OD1	2.15	0.47
1:o:199:GLU:O	1:o:200:LEU:HB2	2.15	0.47
1:q:164:HIS:HD2	1:q:440:HIS:CD2	2.32	0.47
1:r:272:ILE:HD11	1:s:313:THR:HG21	1.95	0.47
1:u:177:VAL:HG12	1:u:178:MET:N	2.29	0.47
1:u:255:PRO:HD3	1:v:197:ILE:HD11	1.96	0.47
1:w:197:ILE:HD11	1:x:255:PRO:HD3	1.96	0.47
1:x:199:GLU:O	1:x:200:LEU:HB2	2.15	0.47
1:y:266:THR:HB	1:y:290:LYS:NZ	2.30	0.47
1:7:267:ARG:HG3	1:7:267:ARG:O	2.13	0.47
1:A:177:VAL:HG12	1:A:178:MET:H	1.80	0.47
1:A:199:GLU:O	1:A:200:LEU:HB2	2.15	0.47
1:A:514:ASP:HB2	1:A:518:ALA:HB3	1.97	0.47
1:A:535:ILE:HG22	1:A:536:ASN:N	2.26	0.47
1:B:266:THR:HB	1:B:290:LYS:NZ	2.30	0.47
1:D:272:ILE:HD11	1:N:313:THR:HG21	1.96	0.47
1:D:453:PRO:HD2	1:E:469:THR:HG21	1.97	0.47
1:E:177:VAL:HG12	1:E:178:MET:H	1.80	0.47
1:E:535:ILE:HG22	1:E:536:ASN:N	2.26	0.47
1:F:68:GLN:O	1:F:94:PRO:HA	2.15	0.47
1:F:266:THR:HB	1:F:290:LYS:NZ	2.30	0.47
1:G:177:VAL:HG12	1:G:178:MET:N	2.29	0.47
1:G:199:GLU:O	1:G:200:LEU:HB2	2.15	0.47
1:H:68:GLN:O	1:H:94:PRO:HA	2.15	0.47
1:H:127:MET:HB3	1:H:240:PHE:HB2	1.96	0.47
1:J:255:PRO:HD3	1:L:197:ILE:HD11	1.96	0.47
1:K:313:THR:HG21	1:8:272:ILE:HD11	1.95	0.47
1:K:535:ILE:HG22	1:K:536:ASN:N	2.26	0.47
1:L:164:HIS:HD2	1:L:440:HIS:CD2	2.32	0.47
1:L:379:ARG:HG2	1:L:406:ASP:OD1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:266:THR:HB	1:N:290:LYS:NZ	2.30	0.47
1:O:255:PRO:HD3	1:g:197:ILE:HD11	1.96	0.47
1:O:266:THR:HB	1:O:290:LYS:NZ	2.30	0.47
1:P:199:GLU:O	1:P:200:LEU:HB2	2.15	0.47
1:Q:266:THR:HB	1:Q:290:LYS:NZ	2.30	0.47
1:R:255:PRO:HD3	1:S:197:ILE:HD11	1.96	0.47
1:R:266:THR:HB	1:R:290:LYS:NZ	2.30	0.47
1:R:267:ARG:HG3	1:R:267:ARG:O	2.13	0.47
1:S:177:VAL:HG12	1:S:178:MET:H	1.80	0.47
1:U:370:ILE:HG22	1:U:371:SER:N	2.29	0.47
1:V:313:THR:HG21	1:X:272:ILE:HD11	1.95	0.47
1:V:453:PRO:HD2	1:W:469:THR:HG21	1.97	0.47
1:W:199:GLU:O	1:W:200:LEU:HB2	2.15	0.47
1:W:272:ILE:HD11	1:Y:313:THR:HG21	1.96	0.47
1:X:199:GLU:O	1:X:200:LEU:HB2	2.15	0.47
1:X:469:THR:HG21	1:Y:453:PRO:HD2	1.97	0.47
1:Z:197:ILE:HD11	1:w:255:PRO:HD3	1.96	0.47
1:Z:266:THR:HB	1:Z:290:LYS:NZ	2.30	0.47
1:Z:370:ILE:HG22	1:Z:371:SER:N	2.29	0.47
1:2:276:GLY:O	1:2:278:THR:OG1	2.24	0.47
1:2:347:PRO:O	1:2:348:THR:OG1	2.23	0.47
1:5:266:THR:HB	1:5:290:LYS:NZ	2.30	0.47
1:6:199:GLU:O	1:6:200:LEU:HB2	2.15	0.47
1:a:164:HIS:HD2	1:a:440:HIS:CD2	2.32	0.47
1:a:535:ILE:HG22	1:a:536:ASN:N	2.26	0.47
1:d:379:ARG:HG2	1:d:406:ASP:OD1	2.14	0.47
1:e:266:THR:HB	1:e:290:LYS:NZ	2.30	0.47
1:f:514:ASP:HB2	1:f:518:ALA:HB3	1.97	0.47
1:g:514:ASP:HB2	1:g:518:ALA:HB3	1.97	0.47
1:h:68:GLN:O	1:h:94:PRO:HA	2.15	0.47
1:h:266:THR:HB	1:h:290:LYS:NZ	2.30	0.47
1:i:177:VAL:HG12	1:i:178:MET:N	2.29	0.47
1:i:266:THR:HB	1:i:290:LYS:NZ	2.30	0.47
1:i:379:ARG:HG2	1:i:406:ASP:OD1	2.15	0.47
1:j:216:GLN:O	1:j:217:ILE:HG13	2.14	0.47
1:j:370:ILE:HG22	1:j:371:SER:N	2.29	0.47
1:k:216:GLN:O	1:k:217:ILE:HG13	2.14	0.47
1:l:177:VAL:HG12	1:l:178:MET:N	2.29	0.47
1:l:266:THR:HB	1:l:290:LYS:NZ	2.30	0.47
1:m:347:PRO:O	1:m:348:THR:OG1	2.22	0.47
1:n:164:HIS:HD2	1:n:440:HIS:CD2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:266:THR:HB	1:n:290:LYS:NZ	2.30	0.47
1:n:313:THR:HG21	1:p:272:ILE:HD11	1.96	0.47
1:p:453:PRO:HD2	1:u:469:THR:HG21	1.97	0.47
1:r:68:GLN:O	1:r:94:PRO:HA	2.15	0.47
1:r:199:GLU:O	1:r:200:LEU:HB2	2.15	0.47
1:r:255:PRO:HD3	1:s:197:ILE:HD11	1.96	0.47
1:r:347:PRO:O	1:r:348:THR:OG1	2.22	0.47
1:s:177:VAL:HG12	1:s:178:MET:H	1.80	0.47
1:s:267:ARG:HG3	1:s:267:ARG:O	2.13	0.47
1:t:68:GLN:O	1:t:94:PRO:HA	2.15	0.47
1:t:177:VAL:HG12	1:t:178:MET:N	2.29	0.47
1:t:255:PRO:HD3	1:u:197:ILE:HD11	1.96	0.47
1:t:267:ARG:O	1:t:267:ARG:HG3	2.13	0.47
1:u:177:VAL:HG12	1:u:178:MET:H	1.80	0.47
1:v:266:THR:HB	1:v:290:LYS:NZ	2.30	0.47
1:w:177:VAL:HG12	1:w:178:MET:H	1.80	0.47
1:x:266:THR:HB	1:x:290:LYS:NZ	2.30	0.47
1:x:267:ARG:HG3	1:x:267:ARG:O	2.13	0.47
1:x:347:PRO:O	1:x:348:THR:OG1	2.23	0.47
1:y:272:ILE:HD11	1:z:313:THR:HG21	1.96	0.47
1:z:216:GLN:O	1:z:217:ILE:HG13	2.14	0.47
1:7:68:GLN:O	1:7:94:PRO:HA	2.15	0.47
1:7:164:HIS:HD2	1:7:440:HIS:CD2	2.32	0.47
1:7:216:GLN:O	1:7:217:ILE:HG13	2.14	0.47
1:7:266:THR:HB	1:7:290:LYS:NZ	2.30	0.47
1:A:164:HIS:HD2	1:A:440:HIS:CD2	2.32	0.47
1:B:177:VAL:HG12	1:B:178:MET:N	2.29	0.47
1:B:260:PHE:CG	1:B:290:LYS:HD2	2.50	0.47
1:C:266:THR:HB	1:C:290:LYS:NZ	2.30	0.47
1:F:177:VAL:HG12	1:F:178:MET:N	2.29	0.47
1:G:266:THR:HB	1:G:290:LYS:NZ	2.30	0.47
1:I:379:ARG:HG2	1:I:406:ASP:OD1	2.15	0.47
1:I:510:THR:O	1:I:520:ILE:HB	2.15	0.47
1:J:199:GLU:O	1:J:200:LEU:HB2	2.15	0.47
1:J:266:THR:HB	1:J:290:LYS:NZ	2.30	0.47
1:K:266:THR:HB	1:K:290:LYS:NZ	2.30	0.47
1:L:68:GLN:O	1:L:94:PRO:HA	2.15	0.47
1:M:177:VAL:HG12	1:M:178:MET:H	1.80	0.47
1:M:216:GLN:O	1:M:217:ILE:HG13	2.14	0.47
1:O:177:VAL:HG12	1:O:178:MET:H	1.80	0.47
1:O:267:ARG:HG3	1:O:267:ARG:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:370:ILE:HG22	1:O:371:SER:N	2.29	0.47
1:Q:379:ARG:HG2	1:Q:406:ASP:OD1	2.14	0.47
1:S:68:GLN:O	1:S:94:PRO:HA	2.15	0.47
1:S:510:THR:O	1:S:520:ILE:HB	2.15	0.47
1:T:127:MET:HB3	1:T:240:PHE:HB2	1.96	0.47
1:T:216:GLN:O	1:T:217:ILE:HG13	2.14	0.47
1:U:266:THR:HB	1:U:290:LYS:NZ	2.30	0.47
1:V:379:ARG:HG2	1:V:406:ASP:OD1	2.15	0.47
1:X:453:PRO:HD2	1:6:469:THR:HG21	1.97	0.47
1:1:127:MET:HB3	1:1:240:PHE:HB2	1.96	0.47
1:1:216:GLN:O	1:1:217:ILE:HG13	2.14	0.47
1:2:68:GLN:O	1:2:94:PRO:HA	2.15	0.47
1:2:199:GLU:O	1:2:200:LEU:HB2	2.15	0.47
1:2:379:ARG:HG2	1:2:406:ASP:OD1	2.15	0.47
1:2:535:ILE:HG22	1:2:536:ASN:N	2.26	0.47
1:3:379:ARG:HG2	1:3:406:ASP:OD1	2.14	0.47
1:5:68:GLN:O	1:5:94:PRO:HA	2.15	0.47
1:5:177:VAL:HG12	1:5:178:MET:H	1.80	0.47
1:5:469:THR:HG21	1:b:453:PRO:HD2	1.97	0.47
1:a:177:VAL:HG12	1:a:178:MET:H	1.80	0.47
1:a:313:THR:HG21	1:b:272:ILE:HD11	1.95	0.47
1:a:514:ASP:HB2	1:a:518:ALA:HB3	1.97	0.47
1:c:197:ILE:HD11	1:e:255:PRO:HD3	1.96	0.47
1:c:266:THR:HB	1:c:290:LYS:NZ	2.30	0.47
1:d:68:GLN:O	1:d:94:PRO:HA	2.15	0.47
1:e:164:HIS:HD2	1:e:440:HIS:CD2	2.32	0.47
1:e:177:VAL:HG12	1:e:178:MET:N	2.29	0.47
1:e:260:PHE:CG	1:e:290:LYS:HD2	2.50	0.47
1:g:469:THR:HG21	1:m:453:PRO:HD2	1.97	0.47
1:h:244:CYS:SG	1:h:245:GLU:N	2.79	0.47
1:h:260:PHE:CG	1:h:290:LYS:HD2	2.50	0.47
1:k:379:ARG:HG2	1:k:406:ASP:OD1	2.14	0.47
1:m:216:GLN:O	1:m:217:ILE:HG13	2.14	0.47
1:m:514:ASP:HB2	1:m:518:ALA:HB3	1.97	0.47
1:p:370:ILE:HG22	1:p:371:SER:N	2.29	0.47
1:r:275:ASN:CB	1:r:276:GLY:HA3	2.41	0.47
1:r:379:ARG:HG2	1:r:406:ASP:OD1	2.14	0.47
1:t:266:THR:HB	1:t:290:LYS:NZ	2.30	0.47
1:v:495:THR:HG22	1:v:497:LEU:H	1.78	0.47
1:w:68:GLN:O	1:w:94:PRO:HA	2.15	0.47
1:y:177:VAL:HG12	1:y:178:MET:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:267:ARG:O	1:y:267:ARG:HG3	2.13	0.47
1:z:514:ASP:HB2	1:z:518:ALA:HB3	1.97	0.47
1:A:68:GLN:O	1:A:94:PRO:HA	2.15	0.47
1:B:164:HIS:HD2	1:B:440:HIS:CD2	2.32	0.47
1:B:255:PRO:HD3	1:J:197:ILE:HD11	1.96	0.47
1:E:510:THR:O	1:E:520:ILE:HB	2.15	0.47
1:F:199:GLU:O	1:F:200:LEU:HB2	2.15	0.47
1:F:267:ARG:O	1:F:267:ARG:HG3	2.13	0.47
1:H:177:VAL:HG12	1:H:178:MET:H	1.80	0.47
1:J:244:CYS:SG	1:J:245:GLU:N	2.79	0.47
1:K:199:GLU:O	1:K:200:LEU:HB2	2.15	0.47
1:K:370:ILE:HG22	1:K:371:SER:N	2.29	0.47
1:N:199:GLU:O	1:N:200:LEU:HB2	2.15	0.47
1:Q:68:GLN:O	1:Q:94:PRO:HA	2.15	0.47
1:R:164:HIS:HD2	1:R:440:HIS:CD2	2.32	0.47
1:S:276:GLY:O	1:S:278:THR:OG1	2.24	0.47
1:V:255:PRO:HD3	1:5:197:ILE:HD11	1.96	0.47
1:V:510:THR:O	1:V:520:ILE:HB	2.15	0.47
1:Y:379:ARG:HG2	1:Y:406:ASP:OD1	2.15	0.47
1:Y:510:THR:O	1:Y:520:ILE:HB	2.15	0.47
1:2:177:VAL:HG12	1:2:178:MET:N	2.29	0.47
1:3:177:VAL:HG12	1:3:178:MET:H	1.80	0.47
1:4:164:HIS:HD2	1:4:440:HIS:CD2	2.32	0.47
1:5:127:MET:HB3	1:5:240:PHE:HB2	1.96	0.47
1:6:266:THR:HB	1:6:290:LYS:NZ	2.30	0.47
1:b:208:ALA:HA	1:b:211:LYS:HB3	1.95	0.47
1:b:379:ARG:HG2	1:b:406:ASP:OD1	2.14	0.47
1:b:469:THR:HG21	1:c:453:PRO:HD2	1.97	0.47
1:b:510:THR:O	1:b:520:ILE:HB	2.15	0.47
1:c:255:PRO:HD3	1:d:197:ILE:HD11	1.96	0.47
1:d:514:ASP:HB2	1:d:518:ALA:HB3	1.97	0.47
1:f:177:VAL:HG12	1:f:178:MET:H	1.80	0.47
1:f:266:THR:HB	1:f:290:LYS:NZ	2.30	0.47
1:f:370:ILE:HG22	1:f:371:SER:N	2.29	0.47
1:i:469:THR:HG21	1:7:453:PRO:HD2	1.97	0.47
1:j:510:THR:O	1:j:520:ILE:HB	2.15	0.47
1:j:514:ASP:HB2	1:j:518:ALA:HB3	1.97	0.47
1:k:177:VAL:HG12	1:k:178:MET:H	1.80	0.47
1:m:370:ILE:HG22	1:m:371:SER:N	2.29	0.47
1:q:216:GLN:O	1:q:217:ILE:HG13	2.14	0.47
1:q:266:THR:HB	1:q:290:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:216:GLN:O	1:s:217:ILE:HG13	2.14	0.47
1:s:514:ASP:HB2	1:s:518:ALA:HB3	1.97	0.47
1:u:266:THR:HB	1:u:290:LYS:NZ	2.30	0.47
1:u:510:THR:O	1:u:520:ILE:HB	2.15	0.47
1:v:379:ARG:HG2	1:v:406:ASP:OD1	2.14	0.47
1:x:164:HIS:HD2	1:x:440:HIS:CD2	2.32	0.47
1:7:260:PHE:CG	1:7:290:LYS:HD2	2.50	0.47
1:8:164:HIS:HD2	1:8:440:HIS:CD2	2.32	0.47
1:A:216:GLN:O	1:A:217:ILE:HG13	2.14	0.47
1:A:469:THR:HG21	1:E:453:PRO:HD2	1.96	0.47
1:B:177:VAL:HG12	1:B:178:MET:H	1.80	0.47
1:B:216:GLN:O	1:B:217:ILE:HG13	2.14	0.47
1:E:260:PHE:CG	1:E:290:LYS:HD2	2.50	0.47
1:F:197:ILE:HD11	1:Q:255:PRO:HD3	1.96	0.47
1:G:514:ASP:HB2	1:G:518:ALA:HB3	1.97	0.47
1:J:514:ASP:HB2	1:J:518:ALA:HB3	1.97	0.47
1:K:68:GLN:O	1:K:94:PRO:HA	2.15	0.47
1:K:177:VAL:HG12	1:K:178:MET:H	1.80	0.47
1:K:260:PHE:CG	1:K:290:LYS:HD2	2.50	0.47
1:L:510:THR:O	1:L:520:ILE:HB	2.15	0.47
1:M:514:ASP:HB2	1:M:518:ALA:HB3	1.97	0.47
1:T:68:GLN:O	1:T:94:PRO:HA	2.15	0.47
1:V:164:HIS:HD2	1:V:440:HIS:CD2	2.32	0.47
1:V:266:THR:HB	1:V:290:LYS:NZ	2.30	0.47
1:V:275:ASN:CB	1:V:276:GLY:HA3	2.41	0.47
1:W:260:PHE:CG	1:W:290:LYS:HD2	2.50	0.47
1:X:260:PHE:CG	1:X:290:LYS:HD2	2.50	0.47
1:Y:266:THR:HB	1:Y:290:LYS:NZ	2.30	0.47
1:3:266:THR:HB	1:3:290:LYS:NZ	2.30	0.47
1:a:68:GLN:O	1:a:94:PRO:HA	2.15	0.47
1:b:164:HIS:HD2	1:b:440:HIS:CD2	2.32	0.47
1:c:244:CYS:SG	1:c:245:GLU:N	2.79	0.47
1:e:177:VAL:HG12	1:e:178:MET:H	1.80	0.47
1:f:68:GLN:O	1:f:94:PRO:HA	2.15	0.47
1:f:199:GLU:O	1:f:200:LEU:HB2	2.15	0.47
1:f:535:ILE:HG22	1:f:536:ASN:N	2.26	0.47
1:h:453:PRO:HD2	1:l:469:THR:HG21	1.97	0.47
1:i:514:ASP:HB2	1:i:518:ALA:HB3	1.97	0.47
1:j:453:PRO:HD2	1:z:469:THR:HG21	1.97	0.47
1:k:199:GLU:O	1:k:200:LEU:HB2	2.15	0.47
1:r:266:THR:HB	1:r:290:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:199:GLU:O	1:t:200:LEU:HB2	2.15	0.47
1:v:68:GLN:O	1:v:94:PRO:HA	2.15	0.47
1:w:260:PHE:CG	1:w:290:LYS:HD2	2.50	0.47
1:y:370:ILE:HG22	1:y:371:SER:N	2.29	0.47
1:8:514:ASP:HB2	1:8:518:ALA:HB3	1.97	0.47
1:A:266:THR:HB	1:A:290:LYS:NZ	2.30	0.46
1:B:113:GLN:OE1	1:I:490:PRO:HB3	2.16	0.46
1:C:216:GLN:O	1:C:217:ILE:HG13	2.14	0.46
1:E:266:THR:HB	1:E:290:LYS:NZ	2.30	0.46
1:G:177:VAL:HG12	1:G:178:MET:H	1.80	0.46
1:H:86:LYS:HA	1:H:86:LYS:HD2	1.78	0.46
1:I:164:HIS:HD2	1:I:440:HIS:CD2	2.32	0.46
1:I:208:ALA:HA	1:I:211:LYS:HB3	1.95	0.46
1:I:216:GLN:O	1:I:217:ILE:HG13	2.14	0.46
1:I:469:THR:HG21	1:J:453:PRO:HD2	1.97	0.46
1:J:346:ARG:O	1:J:348:THR:HG23	2.16	0.46
1:K:510:THR:O	1:K:520:ILE:HB	2.15	0.46
1:L:514:ASP:HB2	1:L:518:ALA:HB3	1.97	0.46
1:S:260:PHE:CG	1:S:290:LYS:HD2	2.50	0.46
1:V:177:VAL:HG12	1:V:178:MET:H	1.80	0.46
1:W:68:GLN:O	1:W:94:PRO:HA	2.15	0.46
1:W:514:ASP:HB2	1:W:518:ALA:HB3	1.97	0.46
1:Y:164:HIS:HD2	1:Y:440:HIS:CD2	2.32	0.46
1:Y:177:VAL:HG12	1:Y:178:MET:H	1.80	0.46
1:Y:275:ASN:CB	1:Y:276:GLY:HA3	2.41	0.46
1:1:68:GLN:O	1:1:94:PRO:HA	2.15	0.46
1:2:266:THR:HB	1:2:290:LYS:NZ	2.30	0.46
1:3:199:GLU:O	1:3:200:LEU:HB2	2.15	0.46
1:4:370:ILE:HG22	1:4:371:SER:N	2.29	0.46
1:4:514:ASP:HB2	1:4:518:ALA:HB3	1.97	0.46
1:5:86:LYS:HD2	1:5:86:LYS:HA	1.78	0.46
1:5:507:ILE:HG23	1:5:508:ASN:N	2.23	0.46
1:6:177:VAL:HG12	1:6:178:MET:H	1.80	0.46
1:6:514:ASP:HB2	1:6:518:ALA:HB3	1.97	0.46
1:a:90:CYS:SG	1:a:91:VAL:N	2.79	0.46
1:a:370:ILE:HG22	1:a:371:SER:N	2.29	0.46
1:c:260:PHE:CG	1:c:290:LYS:HD2	2.50	0.46
1:c:346:ARG:O	1:c:348:THR:HG23	2.16	0.46
1:d:370:ILE:HG22	1:d:371:SER:N	2.29	0.46
1:d:510:THR:O	1:d:520:ILE:HB	2.15	0.46
1:e:510:THR:O	1:e:520:ILE:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:514:ASP:HB2	1:e:518:ALA:HB3	1.97	0.46
1:f:260:PHE:CG	1:f:290:LYS:HD2	2.50	0.46
1:f:510:THR:O	1:f:520:ILE:HB	2.15	0.46
1:h:346:ARG:O	1:h:348:THR:HG23	2.16	0.46
1:i:113:GLN:OE1	1:z:490:PRO:HB3	2.15	0.46
1:k:113:GLN:OE1	1:r:490:PRO:HB3	2.15	0.46
1:k:266:THR:HB	1:k:290:LYS:NZ	2.30	0.46
1:l:514:ASP:HB2	1:l:518:ALA:HB3	1.97	0.46
1:m:510:THR:O	1:m:520:ILE:HB	2.15	0.46
1:n:199:GLU:O	1:n:200:LEU:HB2	2.15	0.46
1:q:275:ASN:CB	1:q:276:GLY:HA3	2.41	0.46
1:r:177:VAL:HG12	1:r:178:MET:N	2.29	0.46
1:r:276:GLY:O	1:r:278:THR:OG1	2.24	0.46
1:s:68:GLN:O	1:s:94:PRO:HA	2.15	0.46
1:t:453:PRO:HD2	1:x:469:THR:HG21	1.97	0.46
1:u:260:PHE:CG	1:u:290:LYS:HD2	2.50	0.46
1:u:535:ILE:HG22	1:u:536:ASN:N	2.26	0.46
1:w:276:GLY:O	1:w:278:THR:OG1	2.24	0.46
1:w:510:THR:O	1:w:520:ILE:HB	2.15	0.46
1:x:177:VAL:HG12	1:x:178:MET:H	1.80	0.46
1:y:379:ARG:HG2	1:y:406:ASP:OD1	2.14	0.46
1:8:370:ILE:HG22	1:8:371:SER:N	2.29	0.46
1:A:346:ARG:O	1:A:348:THR:HG23	2.16	0.46
1:A:370:ILE:HG22	1:A:371:SER:N	2.29	0.46
1:B:275:ASN:CB	1:B:276:GLY:HA3	2.41	0.46
1:C:453:PRO:HD2	1:D:469:THR:HG21	1.97	0.46
1:D:370:ILE:HG22	1:D:371:SER:N	2.29	0.46
1:E:379:ARG:HG2	1:E:406:ASP:OD1	2.15	0.46
1:H:197:ILE:HD11	1:Y:255:PRO:HD3	1.96	0.46
1:H:453:PRO:HD2	1:Z:469:THR:HG21	1.97	0.46
1:I:370:ILE:HG22	1:I:371:SER:N	2.29	0.46
1:J:260:PHE:CG	1:J:290:LYS:HD2	2.50	0.46
1:J:379:ARG:HG2	1:J:406:ASP:OD1	2.15	0.46
1:M:199:GLU:O	1:M:200:LEU:HB2	2.15	0.46
1:O:379:ARG:HG2	1:O:406:ASP:OD1	2.14	0.46
1:O:514:ASP:HB2	1:O:518:ALA:HB3	1.97	0.46
1:P:514:ASP:HB2	1:P:518:ALA:HB3	1.97	0.46
1:R:69:ASN:O	1:R:70:ASN:HB2	2.16	0.46
1:R:177:VAL:HG12	1:R:178:MET:H	1.80	0.46
1:R:357:TYR:C	1:R:359:THR:H	2.24	0.46
1:T:260:PHE:CG	1:T:290:LYS:HD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:346:ARG:O	1:T:348:THR:HG23	2.16	0.46
1:T:469:THR:HG21	1:U:453:PRO:HD2	1.97	0.46
1:U:260:PHE:CG	1:U:290:LYS:HD2	2.50	0.46
1:U:469:THR:HG21	1:5:453:PRO:HD2	1.97	0.46
1:V:260:PHE:CG	1:V:290:LYS:HD2	2.50	0.46
1:W:276:GLY:O	1:W:278:THR:OG1	2.24	0.46
1:X:68:GLN:O	1:X:94:PRO:HA	2.15	0.46
1:X:514:ASP:HB2	1:X:518:ALA:HB3	1.97	0.46
1:Y:260:PHE:CG	1:Y:290:LYS:HD2	2.50	0.46
1:Z:535:ILE:HG22	1:Z:536:ASN:N	2.26	0.46
1:1:346:ARG:O	1:1:348:THR:HG23	2.16	0.46
1:2:260:PHE:CG	1:2:290:LYS:HD2	2.50	0.46
1:2:490:PRO:HB3	1:3:113:GLN:OE1	2.16	0.46
1:3:177:VAL:HG12	1:3:178:MET:N	2.29	0.46
1:4:357:TYR:C	1:4:359:THR:H	2.24	0.46
1:5:113:GLN:OE1	1:6:490:PRO:HB3	2.16	0.46
1:a:216:GLN:O	1:a:217:ILE:HG13	2.14	0.46
1:b:370:ILE:HG22	1:b:371:SER:N	2.29	0.46
1:b:490:PRO:HB3	1:e:113:GLN:OE1	2.16	0.46
1:c:514:ASP:HB2	1:c:518:ALA:HB3	1.97	0.46
1:e:216:GLN:O	1:e:217:ILE:HG13	2.14	0.46
1:j:346:ARG:O	1:j:348:THR:HG23	2.16	0.46
1:k:177:VAL:HG12	1:k:178:MET:N	2.29	0.46
1:k:260:PHE:CG	1:k:290:LYS:HD2	2.50	0.46
1:m:346:ARG:O	1:m:348:THR:HG23	2.16	0.46
1:o:514:ASP:HB2	1:o:518:ALA:HB3	1.97	0.46
1:r:535:ILE:HG22	1:r:536:ASN:N	2.26	0.46
1:t:177:VAL:HG12	1:t:178:MET:H	1.80	0.46
1:t:379:ARG:HG2	1:t:406:ASP:OD1	2.15	0.46
1:v:177:VAL:HG12	1:v:178:MET:H	1.80	0.46
1:w:169:ALA:HB2	1:w:191:TYR:CD1	2.51	0.46
1:x:495:THR:HG22	1:x:497:LEU:H	1.78	0.46
1:y:510:THR:O	1:y:520:ILE:HB	2.15	0.46
1:y:514:ASP:HB2	1:y:518:ALA:HB3	1.97	0.46
1:8:357:TYR:C	1:8:359:THR:H	2.24	0.46
1:A:69:ASN:O	1:A:70:ASN:HB2	2.16	0.46
1:B:357:TYR:C	1:B:359:THR:H	2.24	0.46
1:B:453:PRO:HD2	1:C:469:THR:HG21	1.97	0.46
1:B:510:THR:O	1:B:520:ILE:HB	2.15	0.46
1:B:514:ASP:HB2	1:B:518:ALA:HB3	1.97	0.46
1:C:69:ASN:O	1:C:70:ASN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:346:ARG:O	1:C:348:THR:HG23	2.16	0.46
1:D:113:GLN:OE1	1:M:490:PRO:HB3	2.16	0.46
1:E:248:ASN:HB3	1:E:250:GLU:OE1	2.16	0.46
1:E:370:ILE:HG22	1:E:371:SER:N	2.29	0.46
1:F:116:THR:HG21	1:F:494:HIS:CD2	2.51	0.46
1:F:260:PHE:CG	1:F:290:LYS:HD2	2.50	0.46
1:F:379:ARG:HG2	1:F:406:ASP:OD1	2.14	0.46
1:H:507:ILE:HG23	1:H:508:ASN:N	2.23	0.46
1:H:514:ASP:HB2	1:H:518:ALA:HB3	1.97	0.46
1:I:514:ASP:HB2	1:I:518:ALA:HB3	1.97	0.46
1:J:216:GLN:O	1:J:217:ILE:HG13	2.14	0.46
1:J:357:TYR:C	1:J:359:THR:H	2.24	0.46
1:M:68:GLN:O	1:M:94:PRO:HA	2.15	0.46
1:M:379:ARG:HG2	1:M:406:ASP:OD1	2.14	0.46
1:M:453:PRO:HD2	1:3:469:THR:HG21	1.97	0.46
1:N:275:ASN:CB	1:N:276:GLY:HA3	2.41	0.46
1:O:510:THR:O	1:O:520:ILE:HB	2.15	0.46
1:Q:177:VAL:HG12	1:Q:178:MET:H	1.80	0.46
1:S:169:ALA:HB2	1:S:191:TYR:CD1	2.51	0.46
1:U:177:VAL:HG12	1:U:178:MET:H	1.80	0.46
1:U:535:ILE:HG22	1:U:536:ASN:N	2.26	0.46
1:Z:260:PHE:CG	1:Z:290:LYS:HD2	2.50	0.46
1:Z:379:ARG:HG2	1:Z:406:ASP:OD1	2.14	0.46
1:Z:453:PRO:HD2	1:1:469:THR:HG21	1.97	0.46
1:3:260:PHE:CG	1:3:290:LYS:HD2	2.50	0.46
1:4:260:PHE:CG	1:4:290:LYS:HD2	2.50	0.46
1:4:346:ARG:O	1:4:348:THR:HG23	2.16	0.46
1:5:199:GLU:O	1:5:200:LEU:HB2	2.15	0.46
1:5:260:PHE:CG	1:5:290:LYS:HD2	2.50	0.46
1:a:266:THR:HB	1:a:290:LYS:NZ	2.30	0.46
1:a:346:ARG:O	1:a:348:THR:HG23	2.16	0.46
1:b:68:GLN:O	1:b:94:PRO:HA	2.15	0.46
1:b:216:GLN:O	1:b:217:ILE:HG13	2.14	0.46
1:c:216:GLN:O	1:c:217:ILE:HG13	2.14	0.46
1:c:357:TYR:C	1:c:359:THR:H	2.24	0.46
1:c:379:ARG:HG2	1:c:406:ASP:OD1	2.14	0.46
1:e:169:ALA:HB2	1:e:191:TYR:CD1	2.51	0.46
1:e:453:PRO:HD2	1:q:469:THR:HG21	1.97	0.46
1:g:68:GLN:O	1:g:94:PRO:HA	2.15	0.46
1:g:357:TYR:C	1:g:359:THR:H	2.24	0.46
1:i:199:GLU:O	1:i:200:LEU:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:469:THR:HG21	1:s:453:PRO:HD2	1.97	0.46
1:l:260:PHE:CG	1:l:290:LYS:HD2	2.50	0.46
1:o:379:ARG:HG2	1:o:406:ASP:OD1	2.14	0.46
1:p:113:GLN:OE1	1:s:490:PRO:HB3	2.16	0.46
1:p:469:THR:HG21	1:q:453:PRO:HD2	1.97	0.46
1:q:346:ARG:O	1:q:348:THR:HG23	2.16	0.46
1:q:379:ARG:HG2	1:q:406:ASP:OD1	2.15	0.46
1:r:260:PHE:CG	1:r:290:LYS:HD2	2.50	0.46
1:s:199:GLU:O	1:s:200:LEU:HB2	2.15	0.46
1:t:116:THR:HG21	1:t:494:HIS:CD2	2.51	0.46
1:t:197:ILE:HD11	1:v:255:PRO:HD3	1.96	0.46
1:u:68:GLN:O	1:u:94:PRO:HA	2.15	0.46
1:u:248:ASN:HB3	1:u:250:GLU:OE1	2.16	0.46
1:u:379:ARG:HG2	1:u:406:ASP:OD1	2.14	0.46
1:x:69:ASN:O	1:x:70:ASN:HB2	2.16	0.46
1:x:514:ASP:HB2	1:x:518:ALA:HB3	1.97	0.46
1:y:248:ASN:HB3	1:y:250:GLU:OE1	2.16	0.46
1:z:357:TYR:C	1:z:359:THR:H	2.24	0.46
1:7:346:ARG:O	1:7:348:THR:HG23	2.16	0.46
1:8:69:ASN:O	1:8:70:ASN:HB2	2.16	0.46
1:8:346:ARG:O	1:8:348:THR:HG23	2.16	0.46
1:A:90:CYS:SG	1:A:91:VAL:N	2.79	0.46
1:A:490:PRO:HB3	1:F:113:GLN:OE1	2.14	0.46
1:A:510:THR:O	1:A:520:ILE:HB	2.15	0.46
1:B:169:ALA:HB2	1:B:191:TYR:CD1	2.51	0.46
1:C:275:ASN:CB	1:C:276:GLY:HA3	2.41	0.46
1:C:379:ARG:HG2	1:C:406:ASP:OD1	2.15	0.46
1:D:260:PHE:CG	1:D:290:LYS:HD2	2.50	0.46
1:E:68:GLN:O	1:E:94:PRO:HA	2.15	0.46
1:E:69:ASN:O	1:E:70:ASN:HB2	2.16	0.46
1:E:346:ARG:O	1:E:348:THR:HG23	2.16	0.46
1:F:177:VAL:HG12	1:F:178:MET:H	1.80	0.46
1:F:453:PRO:HD2	1:R:469:THR:HG21	1.98	0.46
1:G:260:PHE:CG	1:G:290:LYS:HD2	2.50	0.46
1:H:199:GLU:O	1:H:200:LEU:HB2	2.15	0.46
1:I:68:GLN:O	1:I:94:PRO:HA	2.15	0.46
1:I:116:THR:HG21	1:I:494:HIS:CD2	2.51	0.46
1:J:169:ALA:HB2	1:J:191:TYR:CD1	2.51	0.46
1:M:346:ARG:O	1:M:348:THR:HG23	2.16	0.46
1:N:248:ASN:HB3	1:N:250:GLU:OE1	2.16	0.46
1:O:199:GLU:O	1:O:200:LEU:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:248:ASN:HB3	1:O:250:GLU:OE1	2.16	0.46
1:O:260:PHE:CG	1:O:290:LYS:HD2	2.50	0.46
1:R:495:THR:HG22	1:R:497:LEU:H	1.78	0.46
1:R:514:ASP:HB2	1:R:518:ALA:HB3	1.97	0.46
1:S:363:THR:OG1	1:S:366:ASP:O	2.14	0.46
1:U:379:ARG:HG2	1:U:406:ASP:OD1	2.15	0.46
1:W:169:ALA:HB2	1:W:191:TYR:CD1	2.51	0.46
1:W:379:ARG:HG2	1:W:406:ASP:OD1	2.14	0.46
1:X:86:LYS:HD2	1:X:86:LYS:HA	1.78	0.46
1:X:177:VAL:HG12	1:X:178:MET:H	1.80	0.46
1:X:379:ARG:HG2	1:X:406:ASP:OD1	2.15	0.46
1:Y:370:ILE:HG22	1:Y:371:SER:N	2.29	0.46
1:Z:68:GLN:O	1:Z:94:PRO:HA	2.15	0.46
1:Z:177:VAL:HG12	1:Z:178:MET:H	1.80	0.46
1:1:260:PHE:CG	1:1:290:LYS:HD2	2.50	0.46
1:2:169:ALA:HB2	1:2:191:TYR:CD1	2.51	0.46
1:2:346:ARG:O	1:2:348:THR:HG23	2.16	0.46
1:4:69:ASN:O	1:4:70:ASN:HB2	2.16	0.46
1:4:169:ALA:HB2	1:4:191:TYR:CD1	2.51	0.46
1:6:260:PHE:CG	1:6:290:LYS:HD2	2.50	0.46
1:a:69:ASN:O	1:a:70:ASN:HB2	2.16	0.46
1:a:510:THR:O	1:a:520:ILE:HB	2.15	0.46
1:e:275:ASN:CB	1:e:276:GLY:HA3	2.41	0.46
1:e:357:TYR:C	1:e:359:THR:H	2.24	0.46
1:g:69:ASN:O	1:g:70:ASN:HB2	2.16	0.46
1:g:199:GLU:O	1:g:200:LEU:HB2	2.15	0.46
1:g:490:PRO:HB3	1:l:113:GLN:OE1	2.16	0.46
1:g:510:THR:O	1:g:520:ILE:HB	2.15	0.46
1:g:535:ILE:HG22	1:g:536:ASN:N	2.26	0.46
1:i:260:PHE:CG	1:i:290:LYS:HD2	2.50	0.46
1:j:68:GLN:O	1:j:94:PRO:HA	2.15	0.46
1:j:69:ASN:O	1:j:70:ASN:HB2	2.16	0.46
1:j:116:THR:HG21	1:j:494:HIS:CD2	2.51	0.46
1:j:248:ASN:HB3	1:j:250:GLU:OE1	2.16	0.46
1:k:68:GLN:O	1:k:94:PRO:HA	2.15	0.46
1:l:199:GLU:O	1:l:200:LEU:HB2	2.15	0.46
1:m:69:ASN:O	1:m:70:ASN:HB2	2.16	0.46
1:m:116:THR:HG21	1:m:494:HIS:CD2	2.51	0.46
1:m:248:ASN:HB3	1:m:250:GLU:OE1	2.16	0.46
1:n:69:ASN:O	1:n:70:ASN:HB2	2.16	0.46
1:n:248:ASN:HB3	1:n:250:GLU:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:69:ASN:O	1:q:70:ASN:HB2	2.16	0.46
1:r:169:ALA:HB2	1:r:191:TYR:CD1	2.51	0.46
1:r:346:ARG:O	1:r:348:THR:HG23	2.16	0.46
1:s:346:ARG:O	1:s:348:THR:HG23	2.16	0.46
1:s:379:ARG:HG2	1:s:406:ASP:OD1	2.15	0.46
1:u:69:ASN:O	1:u:70:ASN:HB2	2.16	0.46
1:u:346:ARG:O	1:u:348:THR:HG23	2.16	0.46
1:u:370:ILE:HG22	1:u:371:SER:N	2.29	0.46
1:x:357:TYR:C	1:x:359:THR:H	2.24	0.46
1:y:199:GLU:O	1:y:200:LEU:HB2	2.15	0.46
1:y:260:PHE:CG	1:y:290:LYS:HD2	2.50	0.46
1:y:357:TYR:C	1:y:359:THR:H	2.24	0.46
1:z:68:GLN:O	1:z:94:PRO:HA	2.15	0.46
1:z:69:ASN:O	1:z:70:ASN:HB2	2.16	0.46
1:7:510:THR:O	1:7:520:ILE:HB	2.15	0.46
1:8:169:ALA:HB2	1:8:191:TYR:CD1	2.51	0.46
1:8:260:PHE:CG	1:8:290:LYS:HD2	2.50	0.46
1:B:69:ASN:O	1:B:70:ASN:HB2	2.16	0.46
1:D:199:GLU:O	1:D:200:LEU:HB2	2.15	0.46
1:F:69:ASN:O	1:F:70:ASN:HB2	2.16	0.46
1:G:68:GLN:O	1:G:94:PRO:HA	2.15	0.46
1:G:510:THR:O	1:G:520:ILE:HB	2.15	0.46
1:H:260:PHE:CG	1:H:290:LYS:HD2	2.50	0.46
1:I:177:VAL:HG12	1:I:178:MET:H	1.80	0.46
1:K:357:TYR:C	1:K:359:THR:H	2.24	0.46
1:L:169:ALA:HB2	1:L:191:TYR:CD1	2.51	0.46
1:L:370:ILE:HG22	1:L:371:SER:N	2.29	0.46
1:M:244:CYS:SG	1:M:245:GLU:N	2.79	0.46
1:O:357:TYR:C	1:O:359:THR:H	2.24	0.46
1:P:379:ARG:HG2	1:P:406:ASP:OD1	2.14	0.46
1:R:248:ASN:HB3	1:R:250:GLU:OE1	2.16	0.46
1:R:346:ARG:O	1:R:348:THR:HG23	2.16	0.46
1:T:169:ALA:HB2	1:T:191:TYR:CD1	2.51	0.46
1:T:514:ASP:HB2	1:T:518:ALA:HB3	1.97	0.46
1:U:199:GLU:O	1:U:200:LEU:HB2	2.15	0.46
1:U:357:TYR:C	1:U:359:THR:H	2.24	0.46
1:U:510:THR:O	1:U:520:ILE:HB	2.15	0.46
1:V:267:ARG:O	1:V:267:ARG:HG3	2.13	0.46
1:X:357:TYR:C	1:X:359:THR:H	2.24	0.46
1:Z:357:TYR:C	1:Z:359:THR:H	2.24	0.46
1:3:68:GLN:O	1:3:94:PRO:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:116:THR:HG21	1:3:494:HIS:CD2	2.51	0.46
1:5:490:PRO:HB3	1:6:113:GLN:OE1	2.16	0.46
1:5:514:ASP:HB2	1:5:518:ALA:HB3	1.97	0.46
1:6:68:GLN:O	1:6:94:PRO:HA	2.15	0.46
1:b:116:THR:HG21	1:b:494:HIS:CD2	2.51	0.46
1:b:177:VAL:HG12	1:b:178:MET:H	1.80	0.46
1:b:514:ASP:HB2	1:b:518:ALA:HB3	1.97	0.46
1:c:169:ALA:HB2	1:c:191:TYR:CD1	2.51	0.46
1:d:169:ALA:HB2	1:d:191:TYR:CD1	2.51	0.46
1:f:357:TYR:C	1:f:359:THR:H	2.24	0.46
1:g:116:THR:HG21	1:g:494:HIS:CD2	2.51	0.46
1:h:510:THR:O	1:h:520:ILE:HB	2.15	0.46
1:k:116:THR:HG21	1:k:494:HIS:CD2	2.51	0.46
1:m:68:GLN:O	1:m:94:PRO:HA	2.15	0.46
1:p:183:TYR:CD2	1:q:221:MET:HE3	2.51	0.46
1:p:260:PHE:CG	1:p:290:LYS:HD2	2.50	0.46
1:s:244:CYS:SG	1:s:245:GLU:N	2.79	0.46
1:t:69:ASN:O	1:t:70:ASN:HB2	2.16	0.46
1:t:260:PHE:CG	1:t:290:LYS:HD2	2.50	0.46
1:v:248:ASN:HB3	1:v:250:GLU:OE1	2.16	0.46
1:x:248:ASN:HB3	1:x:250:GLU:OE1	2.16	0.46
1:x:275:ASN:CB	1:x:276:GLY:HA3	2.41	0.46
1:x:346:ARG:O	1:x:348:THR:HG23	2.16	0.46
1:y:535:ILE:HG22	1:y:536:ASN:N	2.26	0.46
1:z:116:THR:HG21	1:z:494:HIS:CD2	2.51	0.46
1:z:199:GLU:O	1:z:200:LEU:HB2	2.15	0.46
1:z:510:THR:O	1:z:520:ILE:HB	2.15	0.46
1:7:244:CYS:SG	1:7:245:GLU:N	2.79	0.46
1:A:59:ASN:HB3	1:A:61:ARG:NH1	2.31	0.46
1:B:116:THR:HG21	1:B:494:HIS:CD2	2.51	0.46
1:D:357:TYR:C	1:D:359:THR:H	2.24	0.46
1:E:116:THR:HG21	1:E:494:HIS:CD2	2.51	0.46
1:F:370:ILE:HG22	1:F:371:SER:N	2.29	0.46
1:G:248:ASN:HB3	1:G:250:GLU:OE1	2.16	0.46
1:H:248:ASN:HB3	1:H:250:GLU:OE1	2.16	0.46
1:H:255:PRO:HD3	1:W:197:ILE:HD11	1.96	0.46
1:I:248:ASN:HB3	1:I:250:GLU:OE1	2.16	0.46
1:J:59:ASN:HB3	1:J:61:ARG:NH1	2.31	0.46
1:J:248:ASN:HB3	1:J:250:GLU:OE1	2.16	0.46
1:J:490:PRO:HB3	1:K:113:GLN:OE1	2.16	0.46
1:L:177:VAL:HG12	1:L:178:MET:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:199:GLU:O	1:L:200:LEU:HB2	2.15	0.46
1:L:357:TYR:C	1:L:359:THR:H	2.24	0.46
1:N:69:ASN:O	1:N:70:ASN:HB2	2.16	0.46
1:N:113:GLN:OE1	1:O:490:PRO:HB3	2.15	0.46
1:O:116:THR:HG21	1:O:494:HIS:CD2	2.51	0.46
1:P:116:THR:HG21	1:P:494:HIS:CD2	2.51	0.46
1:P:260:PHE:CG	1:P:290:LYS:HD2	2.50	0.46
1:Q:116:THR:HG21	1:Q:494:HIS:CD2	2.51	0.46
1:Q:248:ASN:HB3	1:Q:250:GLU:OE1	2.16	0.46
1:R:221:MET:HE3	1:V:183:TYR:CD2	2.51	0.46
1:R:275:ASN:CB	1:R:276:GLY:HA3	2.41	0.46
1:R:510:THR:O	1:R:520:ILE:HB	2.15	0.46
1:T:116:THR:HG21	1:T:494:HIS:CD2	2.51	0.46
1:U:68:GLN:O	1:U:94:PRO:HA	2.15	0.46
1:V:346:ARG:O	1:V:348:THR:HG23	2.16	0.46
1:V:370:ILE:HG22	1:V:371:SER:N	2.29	0.46
1:W:177:VAL:HG12	1:W:178:MET:H	1.80	0.46
1:W:346:ARG:O	1:W:348:THR:HG23	2.16	0.46
1:W:357:TYR:C	1:W:359:THR:H	2.24	0.46
1:X:169:ALA:HB2	1:X:191:TYR:CD1	2.51	0.46
1:X:346:ARG:O	1:X:348:THR:HG23	2.16	0.46
1:Y:69:ASN:O	1:Y:70:ASN:HB2	2.16	0.46
1:Y:183:TYR:CD2	1:x:221:MET:HE3	2.51	0.46
1:Z:199:GLU:O	1:Z:200:LEU:HB2	2.15	0.46
1:Z:221:MET:HE3	1:1:183:TYR:CD2	2.51	0.46
1:Z:510:THR:O	1:Z:520:ILE:HB	2.16	0.46
1:1:169:ALA:HB2	1:1:191:TYR:CD1	2.51	0.46
1:1:514:ASP:HB2	1:1:518:ALA:HB3	1.97	0.46
1:2:357:TYR:C	1:2:359:THR:H	2.24	0.46
1:4:177:VAL:HG12	1:4:178:MET:H	1.80	0.46
1:5:116:THR:HG21	1:5:494:HIS:CD2	2.51	0.46
1:5:248:ASN:HB3	1:5:250:GLU:OE1	2.16	0.46
1:6:248:ASN:HB3	1:6:250:GLU:OE1	2.16	0.46
1:a:59:ASN:HB3	1:a:61:ARG:NH1	2.31	0.46
1:b:248:ASN:HB3	1:b:250:GLU:OE1	2.16	0.46
1:c:59:ASN:HB3	1:c:61:ARG:NH1	2.31	0.46
1:c:490:PRO:HB3	1:f:113:GLN:OE1	2.16	0.46
1:d:346:ARG:O	1:d:348:THR:HG23	2.16	0.46
1:d:357:TYR:C	1:d:359:THR:H	2.24	0.46
1:d:453:PRO:HD2	1:f:469:THR:HG21	1.97	0.46
1:e:68:GLN:O	1:e:94:PRO:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:69:ASN:O	1:e:70:ASN:HB2	2.16	0.46
1:e:116:THR:HG21	1:e:494:HIS:CD2	2.51	0.46
1:g:346:ARG:O	1:g:348:THR:HG23	2.16	0.46
1:i:169:ALA:HB2	1:i:191:TYR:CD1	2.51	0.46
1:l:169:ALA:HB2	1:l:191:TYR:CD1	2.51	0.46
1:l:216:GLN:O	1:l:217:ILE:HG13	2.14	0.46
1:m:199:GLU:O	1:m:200:LEU:HB2	2.15	0.46
1:n:68:GLN:O	1:n:94:PRO:HA	2.15	0.46
1:n:260:PHE:CG	1:n:290:LYS:HD2	2.50	0.46
1:n:275:ASN:CB	1:n:276:GLY:HA3	2.41	0.46
1:o:169:ALA:HB2	1:o:191:TYR:CD1	2.51	0.46
1:o:260:PHE:CG	1:o:290:LYS:HD2	2.50	0.46
1:o:266:THR:HB	1:o:290:LYS:NZ	2.30	0.46
1:o:346:ARG:O	1:o:348:THR:HG23	2.16	0.46
1:p:357:TYR:C	1:p:359:THR:H	2.24	0.46
1:p:490:PRO:HB3	1:s:113:GLN:OE1	2.16	0.46
1:r:357:TYR:C	1:r:359:THR:H	2.24	0.46
1:r:507:ILE:HG23	1:r:508:ASN:N	2.23	0.46
1:u:116:THR:HG21	1:u:494:HIS:CD2	2.51	0.46
1:v:260:PHE:CG	1:v:290:LYS:HD2	2.50	0.46
1:w:363:THR:OG1	1:w:366:ASP:O	2.14	0.46
1:x:107:PHE:C	1:x:412:ARG:HH12	2.19	0.46
1:x:510:THR:O	1:x:520:ILE:HB	2.15	0.46
1:z:346:ARG:O	1:z:348:THR:HG23	2.16	0.46
1:7:59:ASN:HB3	1:7:61:ARG:NH1	2.31	0.46
1:7:199:GLU:O	1:7:200:LEU:HB2	2.15	0.46
1:8:177:VAL:HG12	1:8:178:MET:H	1.80	0.46
1:8:266:THR:HB	1:8:290:LYS:NZ	2.30	0.46
1:A:248:ASN:HB3	1:A:250:GLU:OE1	2.16	0.46
1:B:68:GLN:O	1:B:94:PRO:HA	2.15	0.46
1:B:248:ASN:HB3	1:B:250:GLU:OE1	2.16	0.46
1:C:59:ASN:HB3	1:C:61:ARG:NH1	2.31	0.46
1:C:221:MET:HE3	1:D:183:TYR:CD2	2.51	0.46
1:C:248:ASN:HB3	1:C:250:GLU:OE1	2.16	0.46
1:D:116:THR:HG21	1:D:494:HIS:CD2	2.51	0.46
1:D:266:THR:HB	1:D:290:LYS:NZ	2.30	0.46
1:D:275:ASN:CB	1:D:276:GLY:HA3	2.41	0.46
1:D:490:PRO:HB3	1:M:113:GLN:OE1	2.16	0.46
1:E:357:TYR:C	1:E:359:THR:H	2.24	0.46
1:J:510:THR:O	1:J:520:ILE:HB	2.15	0.46
1:K:469:THR:HG21	1:L:453:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:346:ARG:O	1:L:348:THR:HG23	2.16	0.46
1:M:266:THR:HB	1:M:290:LYS:NZ	2.30	0.46
1:M:510:THR:O	1:M:520:ILE:HB	2.15	0.46
1:N:59:ASN:HB3	1:N:61:ARG:NH1	2.31	0.46
1:N:68:GLN:O	1:N:94:PRO:HA	2.15	0.46
1:N:379:ARG:HG2	1:N:406:ASP:OD1	2.15	0.46
1:N:469:THR:HG21	1:g:453:PRO:HD2	1.97	0.46
1:N:535:ILE:HG22	1:N:536:ASN:N	2.26	0.46
1:O:69:ASN:O	1:O:70:ASN:HB2	2.16	0.46
1:P:59:ASN:HB3	1:P:61:ARG:NH1	2.31	0.46
1:P:169:ALA:HB2	1:P:191:TYR:CD1	2.51	0.46
1:P:266:THR:HB	1:P:290:LYS:NZ	2.30	0.46
1:P:346:ARG:O	1:P:348:THR:HG23	2.16	0.46
1:Q:59:ASN:HB3	1:Q:61:ARG:NH1	2.31	0.46
1:Q:260:PHE:CG	1:Q:290:LYS:HD2	2.50	0.46
1:R:59:ASN:HB3	1:R:61:ARG:NH1	2.31	0.46
1:T:183:TYR:CD2	1:U:221:MET:HE3	2.51	0.46
1:U:346:ARG:O	1:U:348:THR:HG23	2.16	0.46
1:V:69:ASN:O	1:V:70:ASN:HB2	2.16	0.46
1:X:197:ILE:HD11	1:5:255:PRO:HD3	1.96	0.46
1:X:266:THR:HB	1:X:290:LYS:NZ	2.30	0.46
1:Y:267:ARG:O	1:Y:267:ARG:HG3	2.13	0.46
1:Y:346:ARG:O	1:Y:348:THR:HG23	2.16	0.46
1:Y:469:THR:HG21	1:x:453:PRO:HD2	1.97	0.46
1:Z:346:ARG:O	1:Z:348:THR:HG23	2.16	0.46
1:1:116:THR:HG21	1:1:494:HIS:CD2	2.51	0.46
1:3:370:ILE:HG22	1:3:371:SER:N	2.29	0.46
1:6:510:THR:O	1:6:520:ILE:HB	2.15	0.46
1:a:169:ALA:HB2	1:a:191:TYR:CD1	2.51	0.46
1:b:199:GLU:O	1:b:200:LEU:HB2	2.15	0.46
1:e:248:ASN:HB3	1:e:250:GLU:OE1	2.16	0.46
1:e:347:PRO:HB2	1:e:352:TYR:HB2	1.98	0.46
1:h:69:ASN:O	1:h:70:ASN:HB2	2.16	0.46
1:h:199:GLU:O	1:h:200:LEU:HB2	2.15	0.46
1:h:357:TYR:C	1:h:359:THR:H	2.24	0.46
1:i:216:GLN:O	1:i:217:ILE:HG13	2.14	0.46
1:i:248:ASN:HB3	1:i:250:GLU:OE1	2.16	0.46
1:j:199:GLU:O	1:j:200:LEU:HB2	2.15	0.46
1:k:248:ASN:HB3	1:k:250:GLU:OE1	2.16	0.46
1:l:248:ASN:HB3	1:l:250:GLU:OE1	2.16	0.46
1:n:59:ASN:HB3	1:n:61:ARG:NH1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:379:ARG:HG2	1:n:406:ASP:OD1	2.15	0.46
1:o:510:THR:O	1:o:520:ILE:HB	2.15	0.46
1:p:199:GLU:O	1:p:200:LEU:HB2	2.15	0.46
1:p:275:ASN:CB	1:p:276:GLY:HA3	2.41	0.46
1:q:59:ASN:HB3	1:q:61:ARG:NH1	2.31	0.46
1:q:177:VAL:HG12	1:q:178:MET:H	1.80	0.46
1:q:248:ASN:HB3	1:q:250:GLU:OE1	2.16	0.46
1:t:370:ILE:HG22	1:t:371:SER:N	2.29	0.46
1:u:357:TYR:C	1:u:359:THR:H	2.24	0.46
1:v:59:ASN:HB3	1:v:61:ARG:NH1	2.31	0.46
1:v:116:THR:HG21	1:v:494:HIS:CD2	2.51	0.46
1:w:116:THR:HG21	1:w:494:HIS:CD2	2.51	0.46
1:w:127:MET:HB3	1:w:240:PHE:HB2	1.96	0.46
1:w:346:ARG:O	1:w:348:THR:HG23	2.16	0.46
1:x:59:ASN:HB3	1:x:61:ARG:NH1	2.31	0.46
1:x:68:GLN:O	1:x:94:PRO:HA	2.15	0.46
1:x:260:PHE:CG	1:x:290:LYS:HD2	2.50	0.46
1:x:317:MET:HB3	1:x:335:SER:OG	2.16	0.46
1:y:116:THR:HG21	1:y:494:HIS:CD2	2.51	0.46
1:y:346:ARG:O	1:y:348:THR:HG23	2.16	0.46
1:z:535:ILE:HG22	1:z:536:ASN:N	2.26	0.46
1:7:69:ASN:O	1:7:70:ASN:HB2	2.16	0.46
1:7:357:TYR:C	1:7:359:THR:H	2.24	0.46
1:A:169:ALA:HB2	1:A:191:TYR:CD1	2.51	0.46
1:B:346:ARG:O	1:B:348:THR:HG23	2.16	0.46
1:B:347:PRO:HB2	1:B:352:TYR:HB2	1.98	0.46
1:C:490:PRO:HB3	1:L:113:GLN:OE1	2.16	0.46
1:C:507:ILE:HG23	1:C:508:ASN:N	2.23	0.46
1:D:248:ASN:HB3	1:D:250:GLU:OE1	2.16	0.46
1:E:113:GLN:OE1	1:P:490:PRO:HB3	2.16	0.46
1:E:317:MET:HB3	1:E:335:SER:OG	2.16	0.46
1:G:169:ALA:HB2	1:G:191:TYR:CD1	2.51	0.46
1:H:116:THR:HG21	1:H:494:HIS:CD2	2.51	0.46
1:I:169:ALA:HB2	1:I:191:TYR:CD1	2.51	0.46
1:J:68:GLN:O	1:J:94:PRO:HA	2.15	0.46
1:J:317:MET:HB3	1:J:335:SER:OG	2.16	0.46
1:K:116:THR:HG21	1:K:494:HIS:CD2	2.51	0.46
1:K:379:ARG:HG2	1:K:406:ASP:OD1	2.15	0.46
1:M:260:PHE:CG	1:M:290:LYS:HD2	2.50	0.46
1:M:347:PRO:HB2	1:M:352:TYR:HB2	1.98	0.46
1:O:346:ARG:O	1:O:348:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:535:ILE:HG22	1:O:536:ASN:N	2.26	0.46
1:Q:199:GLU:O	1:Q:200:LEU:HB2	2.15	0.46
1:R:116:THR:HG21	1:R:494:HIS:CD2	2.51	0.46
1:R:260:PHE:CG	1:R:290:LYS:HD2	2.50	0.46
1:R:317:MET:HB3	1:R:335:SER:OG	2.16	0.46
1:R:453:PRO:HD2	1:V:469:THR:HG21	1.97	0.46
1:S:116:THR:HG21	1:S:494:HIS:CD2	2.51	0.46
1:S:127:MET:HB3	1:S:240:PHE:HB2	1.96	0.46
1:W:266:THR:HB	1:W:290:LYS:NZ	2.30	0.46
1:W:510:THR:O	1:W:520:ILE:HB	2.15	0.46
1:X:510:THR:O	1:X:520:ILE:HB	2.15	0.46
1:Y:169:ALA:HB2	1:Y:191:TYR:CD1	2.51	0.46
1:1:177:VAL:HG12	1:1:178:MET:H	1.80	0.46
1:2:248:ASN:HB3	1:2:250:GLU:OE1	2.16	0.46
1:3:248:ASN:HB3	1:3:250:GLU:OE1	2.16	0.46
1:4:59:ASN:HB3	1:4:61:ARG:NH1	2.31	0.46
1:4:68:GLN:O	1:4:94:PRO:HA	2.15	0.46
1:6:535:ILE:HG22	1:6:536:ASN:N	2.26	0.46
1:a:248:ASN:HB3	1:a:250:GLU:OE1	2.16	0.46
1:a:260:PHE:CG	1:a:290:LYS:HD2	2.50	0.46
1:b:260:PHE:CG	1:b:290:LYS:HD2	2.50	0.46
1:c:248:ASN:HB3	1:c:250:GLU:OE1	2.16	0.46
1:d:177:VAL:HG12	1:d:178:MET:H	1.80	0.46
1:d:199:GLU:O	1:d:200:LEU:HB2	2.15	0.46
1:f:379:ARG:HG2	1:f:406:ASP:OD1	2.14	0.46
1:f:453:PRO:HD2	1:h:469:THR:HG21	1.97	0.46
1:h:59:ASN:HB3	1:h:61:ARG:NH1	2.31	0.46
1:h:248:ASN:HB3	1:h:250:GLU:OE1	2.16	0.46
1:i:317:MET:HB3	1:i:335:SER:OG	2.16	0.46
1:k:510:THR:O	1:k:520:ILE:HB	2.15	0.46
1:l:317:MET:HB3	1:l:335:SER:OG	2.16	0.46
1:o:68:GLN:O	1:o:94:PRO:HA	2.15	0.46
1:o:116:THR:HG21	1:o:494:HIS:CD2	2.51	0.46
1:p:69:ASN:O	1:p:70:ASN:HB2	2.16	0.46
1:p:116:THR:HG21	1:p:494:HIS:CD2	2.51	0.46
1:p:169:ALA:HB2	1:p:191:TYR:CD1	2.51	0.46
1:p:266:THR:HB	1:p:290:LYS:NZ	2.30	0.46
1:q:116:THR:HG21	1:q:494:HIS:CD2	2.51	0.46
1:q:510:THR:O	1:q:520:ILE:HB	2.15	0.46
1:s:69:ASN:O	1:s:70:ASN:HB2	2.16	0.46
1:s:116:THR:HG21	1:s:494:HIS:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:266:THR:HB	1:s:290:LYS:NZ	2.30	0.46
1:s:347:PRO:HB2	1:s:352:TYR:HB2	1.98	0.46
1:t:346:ARG:O	1:t:348:THR:HG23	2.16	0.46
1:u:275:ASN:CB	1:u:276:GLY:HA3	2.41	0.46
1:w:266:THR:HB	1:w:290:LYS:NZ	2.30	0.46
1:y:68:GLN:O	1:y:94:PRO:HA	2.15	0.46
1:y:69:ASN:O	1:y:70:ASN:HB2	2.16	0.46
1:7:248:ASN:HB3	1:7:250:GLU:OE1	2.16	0.46
1:7:490:PRO:HB3	1:8:113:GLN:OE1	2.16	0.46
1:A:260:PHE:CG	1:A:290:LYS:HD2	2.50	0.46
1:B:138:GLN:NE2	1:B:464:LEU:HD11	2.31	0.46
1:C:116:THR:HG21	1:C:494:HIS:CD2	2.51	0.46
1:C:177:VAL:HG12	1:C:178:MET:H	1.80	0.46
1:C:197:ILE:HD11	1:M:255:PRO:HD3	1.96	0.46
1:C:370:ILE:HG22	1:C:371:SER:N	2.29	0.46
1:C:510:THR:O	1:C:520:ILE:HB	2.15	0.46
1:D:69:ASN:O	1:D:70:ASN:HB2	2.16	0.46
1:D:169:ALA:HB2	1:D:191:TYR:CD1	2.51	0.46
1:F:138:GLN:NE2	1:F:464:LEU:HD11	2.31	0.46
1:F:346:ARG:O	1:F:348:THR:HG23	2.16	0.46
1:F:357:TYR:C	1:F:359:THR:H	2.24	0.46
1:G:69:ASN:O	1:G:70:ASN:HB2	2.16	0.46
1:G:357:TYR:C	1:G:359:THR:H	2.24	0.46
1:I:260:PHE:CG	1:I:290:LYS:HD2	2.50	0.46
1:J:69:ASN:O	1:J:70:ASN:HB2	2.16	0.46
1:J:116:THR:HG21	1:J:494:HIS:CD2	2.51	0.46
1:L:116:THR:HG21	1:L:494:HIS:CD2	2.51	0.46
1:L:535:ILE:HG22	1:L:536:ASN:N	2.26	0.46
1:M:116:THR:HG21	1:M:494:HIS:CD2	2.51	0.46
1:N:244:CYS:SG	1:N:245:GLU:N	2.79	0.46
1:N:260:PHE:CG	1:N:290:LYS:HD2	2.50	0.46
1:O:68:GLN:O	1:O:94:PRO:HA	2.15	0.46
1:P:68:GLN:O	1:P:94:PRO:HA	2.15	0.46
1:P:469:THR:HG21	1:Q:453:PRO:HD2	1.97	0.46
1:P:510:THR:O	1:P:520:ILE:HB	2.15	0.46
1:Q:104:SER:HB3	1:Q:412:ARG:HG2	1.98	0.46
1:Q:317:MET:HB3	1:Q:335:SER:OG	2.16	0.46
1:R:68:GLN:O	1:R:94:PRO:HA	2.15	0.46
1:S:59:ASN:HB3	1:S:61:ARG:NH1	2.31	0.46
1:S:346:ARG:O	1:S:348:THR:HG23	2.16	0.46
1:T:177:VAL:HG12	1:T:178:MET:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:113:GLN:OE1	1:V:490:PRO:HB3	2.16	0.46
1:V:116:THR:HG21	1:V:494:HIS:CD2	2.51	0.46
1:V:169:ALA:HB2	1:V:191:TYR:CD1	2.51	0.46
1:W:104:SER:HB3	1:W:412:ARG:HG2	1.98	0.46
1:X:104:SER:HB3	1:X:412:ARG:HG2	1.98	0.46
1:Y:490:PRO:HB3	1:Z:113:GLN:OE1	2.16	0.46
1:Y:514:ASP:HB2	1:Y:518:ALA:HB3	1.97	0.46
1:1:86:LYS:HD2	1:1:86:LYS:HA	1.78	0.46
1:3:317:MET:HB3	1:3:335:SER:OG	2.16	0.46
1:3:510:THR:O	1:3:520:ILE:HB	2.16	0.46
1:3:514:ASP:HB2	1:3:518:ALA:HB3	1.97	0.46
1:4:113:GLN:OE1	1:h:490:PRO:HB3	2.16	0.46
1:4:266:THR:HB	1:4:290:LYS:NZ	2.30	0.46
1:4:317:MET:HB3	1:4:335:SER:OG	2.16	0.46
1:5:169:ALA:HB2	1:5:191:TYR:CD1	2.51	0.46
1:6:69:ASN:O	1:6:70:ASN:HB2	2.16	0.46
1:6:169:ALA:HB2	1:6:191:TYR:CD1	2.51	0.46
1:6:357:TYR:C	1:6:359:THR:H	2.24	0.46
1:a:138:GLN:NE2	1:a:464:LEU:HD11	2.31	0.46
1:a:410:VAL:HG12	1:a:411:THR:N	2.31	0.46
1:a:490:PRO:HB3	1:t:113:GLN:OE1	2.15	0.46
1:c:116:THR:HG21	1:c:494:HIS:CD2	2.51	0.46
1:c:317:MET:HB3	1:c:335:SER:OG	2.16	0.46
1:d:260:PHE:CG	1:d:290:LYS:HD2	2.50	0.46
1:d:490:PRO:HB3	1:q:113:GLN:OE1	2.16	0.46
1:e:138:GLN:NE2	1:e:464:LEU:HD11	2.31	0.46
1:e:346:ARG:O	1:e:348:THR:HG23	2.16	0.46
1:f:116:THR:HG21	1:f:494:HIS:CD2	2.51	0.46
1:g:260:PHE:CG	1:g:290:LYS:HD2	2.50	0.46
1:g:410:VAL:HG12	1:g:411:THR:N	2.31	0.46
1:i:59:ASN:HB3	1:i:61:ARG:NH1	2.31	0.46
1:i:510:THR:O	1:i:520:ILE:HB	2.15	0.46
1:k:370:ILE:HG22	1:k:371:SER:N	2.29	0.46
1:l:59:ASN:HB3	1:l:61:ARG:NH1	2.31	0.46
1:l:510:THR:O	1:l:520:ILE:HB	2.15	0.46
1:n:244:CYS:SG	1:n:245:GLU:N	2.79	0.46
1:n:357:TYR:C	1:n:359:THR:H	2.24	0.46
1:n:469:THR:HG21	1:z:453:PRO:HD2	1.97	0.46
1:n:535:ILE:HG22	1:n:536:ASN:N	2.26	0.46
1:o:41:THR:HG21	1:o:235:SER:CB	2.46	0.46
1:p:68:GLN:O	1:p:94:PRO:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:248:ASN:HB3	1:r:250:GLU:OE1	2.16	0.46
1:s:260:PHE:CG	1:s:290:LYS:HD2	2.50	0.46
1:s:510:THR:O	1:s:520:ILE:HB	2.15	0.46
1:t:104:SER:HB3	1:t:412:ARG:HG2	1.98	0.46
1:u:317:MET:HB3	1:u:335:SER:OG	2.16	0.46
1:v:104:SER:HB3	1:v:412:ARG:HG2	1.98	0.46
1:v:199:GLU:O	1:v:200:LEU:HB2	2.15	0.46
1:v:317:MET:HB3	1:v:335:SER:OG	2.16	0.46
1:v:469:THR:HG21	1:w:453:PRO:HD2	1.97	0.46
1:v:510:THR:O	1:v:520:ILE:HB	2.15	0.46
1:w:59:ASN:HB3	1:w:61:ARG:NH1	2.31	0.46
1:w:199:GLU:O	1:w:200:LEU:HB2	2.15	0.46
1:w:347:PRO:HB2	1:w:352:TYR:HB2	1.98	0.46
1:x:116:THR:HG21	1:x:494:HIS:CD2	2.51	0.46
1:x:371:SER:HA	1:x:525:TRP:NE1	2.31	0.46
1:z:138:GLN:NE2	1:z:464:LEU:HD11	2.31	0.46
1:z:260:PHE:CG	1:z:290:LYS:HD2	2.50	0.46
1:z:317:MET:HB3	1:z:335:SER:OG	2.16	0.46
1:z:410:VAL:HG12	1:z:411:THR:N	2.31	0.46
1:8:59:ASN:HB3	1:8:61:ARG:NH1	2.31	0.46
1:8:68:GLN:O	1:8:94:PRO:HA	2.15	0.46
1:8:347:PRO:HB2	1:8:352:TYR:HB2	1.98	0.46
1:A:138:GLN:NE2	1:A:464:LEU:HD11	2.31	0.46
1:C:113:GLN:OE1	1:L:490:PRO:HB3	2.16	0.46
1:D:68:GLN:O	1:D:94:PRO:HA	2.15	0.46
1:D:104:SER:HB3	1:D:412:ARG:HG2	1.98	0.46
1:F:221:MET:HE3	1:R:183:TYR:CD2	2.51	0.46
1:F:317:MET:HB3	1:F:335:SER:OG	2.16	0.46
1:G:535:ILE:HG22	1:G:536:ASN:N	2.26	0.46
1:H:138:GLN:NE2	1:H:464:LEU:HD11	2.31	0.46
1:H:169:ALA:HB2	1:H:191:TYR:CD1	2.51	0.46
1:I:357:TYR:C	1:I:359:THR:H	2.24	0.46
1:I:410:VAL:HG12	1:I:411:THR:N	2.31	0.46
1:K:169:ALA:HB2	1:K:191:TYR:CD1	2.51	0.46
1:K:247:ILE:HG13	1:K:436:ILE:HD11	1.99	0.46
1:K:410:VAL:HG12	1:K:411:THR:N	2.31	0.46
1:K:453:PRO:HD2	1:7:469:THR:HG21	1.97	0.46
1:L:260:PHE:CG	1:L:290:LYS:HD2	2.50	0.46
1:M:69:ASN:O	1:M:70:ASN:HB2	2.16	0.46
1:M:469:THR:HG21	1:N:453:PRO:HD2	1.97	0.46
1:N:357:TYR:C	1:N:359:THR:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:371:SER:HA	1:N:525:TRP:NE1	2.31	0.46
1:P:69:ASN:O	1:P:70:ASN:HB2	2.16	0.46
1:P:177:VAL:HG12	1:P:178:MET:H	1.80	0.46
1:P:248:ASN:HB3	1:P:250:GLU:OE1	2.16	0.46
1:P:410:VAL:HG12	1:P:411:THR:N	2.32	0.46
1:Q:86:LYS:HD2	1:Q:86:LYS:HA	1.78	0.46
1:Q:169:ALA:HB2	1:Q:191:TYR:CD1	2.51	0.46
1:Q:469:THR:HG21	1:S:453:PRO:HD2	1.97	0.46
1:Q:510:THR:O	1:Q:520:ILE:HB	2.15	0.46
1:R:107:PHE:C	1:R:412:ARG:HH12	2.19	0.46
1:R:169:ALA:HB2	1:R:191:TYR:CD1	2.51	0.46
1:R:371:SER:HA	1:R:525:TRP:NE1	2.31	0.46
1:S:266:THR:HB	1:S:290:LYS:NZ	2.30	0.46
1:S:275:ASN:CB	1:S:276:GLY:HA3	2.41	0.46
1:S:347:PRO:HB2	1:S:352:TYR:HB2	1.98	0.46
1:S:514:ASP:HB2	1:S:518:ALA:HB3	1.97	0.46
1:T:371:SER:HA	1:T:525:TRP:NE1	2.31	0.46
1:V:514:ASP:HB2	1:V:518:ALA:HB3	1.97	0.46
1:W:116:THR:HG21	1:W:494:HIS:CD2	2.51	0.46
1:X:116:THR:HG21	1:X:494:HIS:CD2	2.51	0.46
1:Y:116:THR:HG21	1:Y:494:HIS:CD2	2.51	0.46
1:Y:410:VAL:HG12	1:Y:411:THR:N	2.31	0.46
1:Z:138:GLN:NE2	1:Z:464:LEU:HD11	2.31	0.46
1:1:371:SER:HA	1:1:525:TRP:NE1	2.31	0.46
1:4:248:ASN:HB3	1:4:250:GLU:OE1	2.16	0.46
1:4:347:PRO:HB2	1:4:352:TYR:HB2	1.98	0.46
1:4:410:VAL:HG12	1:4:411:THR:N	2.31	0.46
1:5:138:GLN:NE2	1:5:464:LEU:HD11	2.31	0.46
1:a:469:THR:HG21	1:u:453:PRO:HD2	1.97	0.46
1:b:169:ALA:HB2	1:b:191:TYR:CD1	2.51	0.46
1:b:410:VAL:HG12	1:b:411:THR:N	2.31	0.46
1:c:68:GLN:O	1:c:94:PRO:HA	2.15	0.46
1:c:69:ASN:O	1:c:70:ASN:HB2	2.16	0.46
1:d:113:GLN:OE1	1:q:490:PRO:HB3	2.16	0.46
1:d:116:THR:HG21	1:d:494:HIS:CD2	2.51	0.46
1:f:138:GLN:NE2	1:f:464:LEU:HD11	2.31	0.46
1:f:247:ILE:HG13	1:f:436:ILE:HD11	1.99	0.46
1:g:138:GLN:NE2	1:g:464:LEU:HD11	2.31	0.46
1:g:247:ILE:HG13	1:g:436:ILE:HD11	1.98	0.46
1:h:177:VAL:HG12	1:h:178:MET:H	1.80	0.46
1:h:371:SER:HA	1:h:525:TRP:NE1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:104:SER:HB3	1:i:412:ARG:HG2	1.98	0.46
1:j:138:GLN:NE2	1:j:464:LEU:HD11	2.31	0.46
1:j:177:VAL:HG12	1:j:178:MET:H	1.80	0.46
1:j:490:PRO:HB3	1:m:113:GLN:OE1	2.16	0.46
1:k:317:MET:HB3	1:k:335:SER:OG	2.16	0.46
1:k:514:ASP:HB2	1:k:518:ALA:HB3	1.97	0.46
1:l:453:PRO:HD2	1:r:469:THR:HG21	1.97	0.46
1:m:138:GLN:NE2	1:m:464:LEU:HD11	2.31	0.46
1:m:260:PHE:CG	1:m:290:LYS:HD2	2.50	0.46
1:m:357:TYR:C	1:m:359:THR:H	2.24	0.46
1:n:371:SER:HA	1:n:525:TRP:NE1	2.31	0.46
1:n:453:PRO:HD2	1:s:469:THR:HG21	1.97	0.46
1:o:59:ASN:HB3	1:o:61:ARG:NH1	2.31	0.46
1:o:248:ASN:HB3	1:o:250:GLU:OE1	2.16	0.46
1:o:410:VAL:HG12	1:o:411:THR:N	2.32	0.46
1:o:469:THR:HG21	1:v:453:PRO:HD2	1.97	0.46
1:o:490:PRO:HB3	1:u:113:GLN:OE1	2.16	0.46
1:p:248:ASN:HB3	1:p:250:GLU:OE1	2.16	0.46
1:q:197:ILE:HD11	1:s:255:PRO:HD3	1.96	0.46
1:q:260:PHE:CG	1:q:290:LYS:HD2	2.50	0.46
1:r:138:GLN:NE2	1:r:464:LEU:HD11	2.31	0.46
1:t:317:MET:HB3	1:t:335:SER:OG	2.16	0.46
1:u:199:GLU:O	1:u:200:LEU:HB2	2.15	0.46
1:u:514:ASP:HB2	1:u:518:ALA:HB3	1.97	0.46
1:8:199:GLU:O	1:8:200:LEU:HB2	2.15	0.46
1:8:248:ASN:HB3	1:8:250:GLU:OE1	2.16	0.46
1:8:317:MET:HB3	1:8:335:SER:OG	2.16	0.46
1:8:410:VAL:HG12	1:8:411:THR:N	2.31	0.46
1:8:507:ILE:HG23	1:8:508:ASN:N	2.23	0.46
1:8:510:THR:O	1:8:520:ILE:HB	2.15	0.46
1:A:347:PRO:HB2	1:A:352:TYR:HB2	1.98	0.45
1:A:371:SER:HA	1:A:525:TRP:NE1	2.32	0.45
1:A:410:VAL:HG12	1:A:411:THR:N	2.31	0.45
1:C:68:GLN:O	1:C:94:PRO:HA	2.15	0.45
1:D:346:ARG:O	1:D:348:THR:HG23	2.16	0.45
1:D:371:SER:HA	1:D:525:TRP:NE1	2.32	0.45
1:D:510:THR:O	1:D:520:ILE:HB	2.15	0.45
1:E:59:ASN:HB3	1:E:61:ARG:NH1	2.31	0.45
1:E:247:ILE:HG13	1:E:436:ILE:HD11	1.98	0.45
1:E:514:ASP:HB2	1:E:518:ALA:HB3	1.97	0.45
1:F:104:SER:HB3	1:F:412:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:410:VAL:HG12	1:G:411:THR:N	2.31	0.45
1:H:183:TYR:CD2	1:I:221:MET:HE3	2.51	0.45
1:I:199:GLU:O	1:I:200:LEU:HB2	2.15	0.45
1:I:346:ARG:O	1:I:348:THR:HG23	2.16	0.45
1:J:177:VAL:HG12	1:J:178:MET:H	1.80	0.45
1:M:169:ALA:HB2	1:M:191:TYR:CD1	2.51	0.45
1:M:221:MET:HE3	1:3:183:TYR:CD2	2.51	0.45
1:N:104:SER:HB3	1:N:412:ARG:HG2	1.98	0.45
1:N:177:VAL:HG12	1:N:178:MET:H	1.80	0.45
1:N:247:ILE:HG13	1:N:436:ILE:HD11	1.99	0.45
1:N:410:VAL:HG12	1:N:411:THR:N	2.31	0.45
1:O:59:ASN:HB3	1:O:61:ARG:NH1	2.31	0.45
1:O:453:PRO:HD2	1:4:469:THR:HG21	1.98	0.45
1:S:199:GLU:O	1:S:200:LEU:HB2	2.15	0.45
1:T:199:GLU:O	1:T:200:LEU:HB2	2.15	0.45
1:U:138:GLN:NE2	1:U:464:LEU:HD11	2.31	0.45
1:V:138:GLN:NE2	1:V:464:LEU:HD11	2.31	0.45
1:V:410:VAL:HG12	1:V:411:THR:N	2.31	0.45
1:W:248:ASN:HB3	1:W:250:GLU:OE1	2.16	0.45
1:W:507:ILE:HG23	1:W:508:ASN:N	2.23	0.45
1:X:248:ASN:HB3	1:X:250:GLU:OE1	2.16	0.45
1:Y:199:GLU:O	1:Y:200:LEU:HB2	2.15	0.45
1:Z:248:ASN:HB3	1:Z:250:GLU:OE1	2.16	0.45
1:1:501:ILE:HD12	1:1:509:PRO:HA	1.99	0.45
1:2:138:GLN:NE2	1:2:464:LEU:HD11	2.31	0.45
1:2:469:THR:HG21	1:i:453:PRO:HD2	1.97	0.45
1:3:347:PRO:HB2	1:3:352:TYR:HB2	1.98	0.45
1:4:199:GLU:O	1:4:200:LEU:HB2	2.15	0.45
1:4:371:SER:HA	1:4:525:TRP:NE1	2.32	0.45
1:4:510:THR:O	1:4:520:ILE:HB	2.15	0.45
1:5:410:VAL:HG12	1:5:411:THR:N	2.31	0.45
1:6:410:VAL:HG12	1:6:411:THR:N	2.31	0.45
1:6:453:PRO:HD2	1:t:469:THR:HG21	1.97	0.45
1:a:104:SER:HB3	1:a:412:ARG:HG2	1.98	0.45
1:a:347:PRO:HB2	1:a:352:TYR:HB2	1.98	0.45
1:b:357:TYR:C	1:b:359:THR:H	2.24	0.45
1:c:510:THR:O	1:c:520:ILE:HB	2.15	0.45
1:d:69:ASN:O	1:d:70:ASN:HB2	2.16	0.45
1:e:59:ASN:HB3	1:e:61:ARG:NH1	2.31	0.45
1:g:104:SER:HB3	1:g:412:ARG:HG2	1.98	0.45
1:g:266:THR:HB	1:g:290:LYS:NZ	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:317:MET:HB3	1:g:335:SER:OG	2.16	0.45
1:g:370:ILE:HG22	1:g:371:SER:N	2.29	0.45
1:h:317:MET:HB3	1:h:335:SER:OG	2.16	0.45
1:i:138:GLN:NE2	1:i:464:LEU:HD11	2.31	0.45
1:i:177:VAL:HG12	1:i:178:MET:H	1.80	0.45
1:j:113:GLN:OE1	1:m:490:PRO:HB3	2.16	0.45
1:j:260:PHE:CG	1:j:290:LYS:HD2	2.50	0.45
1:j:357:TYR:C	1:j:359:THR:H	2.24	0.45
1:k:183:TYR:CD2	1:s:221:MET:HE3	2.51	0.45
1:k:347:PRO:HB2	1:k:352:TYR:HB2	1.98	0.45
1:k:357:TYR:C	1:k:359:THR:H	2.24	0.45
1:l:104:SER:HB3	1:l:412:ARG:HG2	1.98	0.45
1:n:247:ILE:HG13	1:n:436:ILE:HD11	1.99	0.45
1:n:410:VAL:HG12	1:n:411:THR:N	2.31	0.45
1:o:69:ASN:O	1:o:70:ASN:HB2	2.16	0.45
1:o:177:VAL:HG12	1:o:178:MET:H	1.80	0.45
1:p:104:SER:HB3	1:p:412:ARG:HG2	1.98	0.45
1:q:370:ILE:HG22	1:q:371:SER:N	2.29	0.45
1:t:138:GLN:NE2	1:t:464:LEU:HD11	2.31	0.45
1:t:221:MET:HE3	1:x:183:TYR:CD2	2.51	0.45
1:t:357:TYR:C	1:t:359:THR:H	2.24	0.45
1:u:104:SER:HB3	1:u:412:ARG:HG2	1.98	0.45
1:u:247:ILE:HG13	1:u:436:ILE:HD11	1.99	0.45
1:v:169:ALA:HB2	1:v:191:TYR:CD1	2.51	0.45
1:x:169:ALA:HB2	1:x:191:TYR:CD1	2.51	0.45
1:y:247:ILE:HG13	1:y:436:ILE:HD11	1.98	0.45
1:y:347:PRO:HB2	1:y:352:TYR:HB2	1.98	0.45
1:z:104:SER:HB3	1:z:412:ARG:HG2	1.98	0.45
1:z:247:ILE:HG13	1:z:436:ILE:HD11	1.99	0.45
1:z:266:THR:HB	1:z:290:LYS:NZ	2.30	0.45
1:z:347:PRO:HB2	1:z:352:TYR:HB2	1.98	0.45
1:z:370:ILE:HG22	1:z:371:SER:N	2.29	0.45
1:7:177:VAL:HG12	1:7:178:MET:H	1.80	0.45
1:7:371:SER:HA	1:7:525:TRP:NE1	2.31	0.45
1:8:371:SER:HA	1:8:525:TRP:NE1	2.32	0.45
1:A:104:SER:HB3	1:A:412:ARG:HG2	1.98	0.45
1:C:138:GLN:NE2	1:C:464:LEU:HD11	2.31	0.45
1:C:169:ALA:HB2	1:C:191:TYR:CD1	2.51	0.45
1:C:199:GLU:O	1:C:200:LEU:HB2	2.15	0.45
1:C:260:PHE:CG	1:C:290:LYS:HD2	2.50	0.45
1:C:371:SER:HA	1:C:525:TRP:NE1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:104:SER:HB3	1:E:412:ARG:HG2	1.98	0.45
1:E:169:ALA:HB2	1:E:191:TYR:CD1	2.51	0.45
1:E:199:GLU:O	1:E:200:LEU:HB2	2.15	0.45
1:E:275:ASN:CB	1:E:276:GLY:HA3	2.42	0.45
1:H:317:MET:HB3	1:H:335:SER:OG	2.16	0.45
1:I:69:ASN:O	1:I:70:ASN:HB2	2.16	0.45
1:I:247:ILE:HG13	1:I:436:ILE:HD11	1.99	0.45
1:K:138:GLN:NE2	1:K:464:LEU:HD11	2.31	0.45
1:K:221:MET:HE3	1:7:183:TYR:CD2	2.51	0.45
1:L:69:ASN:O	1:L:70:ASN:HB2	2.16	0.45
1:N:514:ASP:HB2	1:N:518:ALA:HB3	1.97	0.45
1:O:347:PRO:HB2	1:O:352:TYR:HB2	1.98	0.45
1:Q:247:ILE:HG13	1:Q:436:ILE:HD11	1.99	0.45
1:Q:347:PRO:HB2	1:Q:352:TYR:HB2	1.98	0.45
1:Q:490:PRO:HB3	1:R:113:GLN:OE1	2.16	0.45
1:S:69:ASN:O	1:S:70:ASN:HB2	2.16	0.45
1:S:183:TYR:CD2	1:4:221:MET:HE3	2.51	0.45
1:U:248:ASN:HB3	1:U:250:GLU:OE1	2.16	0.45
1:U:390:THR:HG22	1:U:391:TYR:N	2.32	0.45
1:U:410:VAL:HG12	1:U:411:THR:N	2.31	0.45
1:V:199:GLU:O	1:V:200:LEU:HB2	2.15	0.45
1:W:113:GLN:OE1	1:X:490:PRO:HB3	2.16	0.45
1:W:371:SER:HA	1:W:525:TRP:NE1	2.31	0.45
1:W:410:VAL:HG12	1:W:411:THR:N	2.31	0.45
1:X:221:MET:HE3	1:6:183:TYR:CD2	2.51	0.45
1:X:371:SER:HA	1:X:525:TRP:NE1	2.31	0.45
1:Y:68:GLN:O	1:Y:94:PRO:HA	2.15	0.45
1:Y:138:GLN:NE2	1:Y:464:LEU:HD11	2.31	0.45
1:Y:193:TYR:HH	1:Y:220:PHE:H	1.64	0.45
1:Y:535:ILE:HG22	1:Y:536:ASN:N	2.26	0.45
1:Z:69:ASN:O	1:Z:70:ASN:HB2	2.16	0.45
1:Z:169:ALA:HB2	1:Z:191:TYR:CD1	2.51	0.45
1:Z:410:VAL:HG12	1:Z:411:THR:N	2.31	0.45
1:1:61:ARG:NH1	1:1:178:MET:HE2	2.32	0.45
1:1:347:PRO:HB2	1:1:352:TYR:HB2	1.98	0.45
1:2:317:MET:HB3	1:2:335:SER:OG	2.16	0.45
1:2:410:VAL:HG12	1:2:411:THR:N	2.31	0.45
1:3:59:ASN:HB3	1:3:61:ARG:NH1	2.31	0.45
1:3:138:GLN:NE2	1:3:464:LEU:HD11	2.31	0.45
1:3:357:TYR:C	1:3:359:THR:H	2.24	0.45
1:5:69:ASN:O	1:5:70:ASN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:116:THR:HG21	1:6:494:HIS:CD2	2.51	0.45
1:6:346:ARG:O	1:6:348:THR:HG23	2.16	0.45
1:6:371:SER:HA	1:6:525:TRP:NE1	2.31	0.45
1:a:371:SER:HA	1:a:525:TRP:NE1	2.32	0.45
1:b:247:ILE:HG13	1:b:436:ILE:HD11	1.99	0.45
1:c:177:VAL:HG12	1:c:178:MET:H	1.80	0.45
1:d:410:VAL:HG12	1:d:411:THR:N	2.31	0.45
1:d:535:ILE:HG22	1:d:536:ASN:N	2.26	0.45
1:f:69:ASN:O	1:f:70:ASN:HB2	2.16	0.45
1:f:169:ALA:HB2	1:f:191:TYR:CD1	2.51	0.45
1:f:410:VAL:HG12	1:f:411:THR:N	2.32	0.45
1:g:169:ALA:HB2	1:g:191:TYR:CD1	2.51	0.45
1:g:347:PRO:HB2	1:g:352:TYR:HB2	1.98	0.45
1:i:68:GLN:O	1:i:94:PRO:HA	2.15	0.45
1:k:69:ASN:O	1:k:70:ASN:HB2	2.16	0.45
1:k:138:GLN:NE2	1:k:464:LEU:HD11	2.31	0.45
1:k:390:THR:HG22	1:k:391:TYR:N	2.32	0.45
1:k:501:ILE:HD12	1:k:509:PRO:HA	1.99	0.45
1:l:138:GLN:NE2	1:l:464:LEU:HD11	2.31	0.45
1:n:104:SER:HB3	1:n:412:ARG:HG2	1.98	0.45
1:n:346:ARG:O	1:n:348:THR:HG23	2.16	0.45
1:p:177:VAL:HG12	1:p:178:MET:H	1.80	0.45
1:p:346:ARG:O	1:p:348:THR:HG23	2.16	0.45
1:p:371:SER:HA	1:p:525:TRP:NE1	2.32	0.45
1:p:510:THR:O	1:p:520:ILE:HB	2.15	0.45
1:q:68:GLN:O	1:q:94:PRO:HA	2.15	0.45
1:q:410:VAL:HG12	1:q:411:THR:N	2.31	0.45
1:r:69:ASN:O	1:r:70:ASN:HB2	2.16	0.45
1:r:177:VAL:HG12	1:r:178:MET:H	1.80	0.45
1:r:317:MET:HB3	1:r:335:SER:OG	2.16	0.45
1:s:59:ASN:HB3	1:s:61:ARG:NH1	2.31	0.45
1:s:357:TYR:C	1:s:359:THR:H	2.24	0.45
1:u:59:ASN:HB3	1:u:61:ARG:NH1	2.31	0.45
1:v:86:LYS:HD2	1:v:86:LYS:HA	1.78	0.45
1:w:69:ASN:O	1:w:70:ASN:HB2	2.16	0.45
1:w:183:TYR:CD2	1:8:221:MET:HE3	2.51	0.45
1:w:248:ASN:HB3	1:w:250:GLU:OE1	2.16	0.45
1:w:514:ASP:HB2	1:w:518:ALA:HB3	1.97	0.45
1:y:59:ASN:HB3	1:y:61:ARG:NH1	2.31	0.45
1:y:501:ILE:HD12	1:y:509:PRO:HA	1.99	0.45
1:7:104:SER:HB3	1:7:412:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:317:MET:HB3	1:7:335:SER:OG	2.16	0.45
1:8:116:THR:HG21	1:8:494:HIS:CD2	2.51	0.45
1:A:116:THR:HG21	1:A:494:HIS:CD2	2.51	0.45
1:A:183:TYR:CD2	1:E:221:MET:HE3	2.52	0.45
1:B:59:ASN:HB3	1:B:61:ARG:NH1	2.31	0.45
1:B:247:ILE:HG13	1:B:436:ILE:HD11	1.98	0.45
1:B:317:MET:HB3	1:B:335:SER:OG	2.16	0.45
1:C:410:VAL:HG12	1:C:411:THR:N	2.31	0.45
1:D:221:MET:HE3	1:E:183:TYR:CD2	2.51	0.45
1:F:59:ASN:HB3	1:F:61:ARG:NH1	2.31	0.45
1:G:346:ARG:O	1:G:348:THR:HG23	2.16	0.45
1:G:371:SER:HA	1:G:525:TRP:NE1	2.32	0.45
1:H:59:ASN:HB3	1:H:61:ARG:NH1	2.31	0.45
1:H:69:ASN:O	1:H:70:ASN:HB2	2.16	0.45
1:H:410:VAL:HG12	1:H:411:THR:N	2.31	0.45
1:H:510:THR:O	1:H:520:ILE:HB	2.15	0.45
1:H:535:ILE:HG22	1:H:536:ASN:N	2.26	0.45
1:J:61:ARG:NH1	1:J:178:MET:HE2	2.32	0.45
1:L:371:SER:HA	1:L:525:TRP:NE1	2.32	0.45
1:L:410:VAL:HG12	1:L:411:THR:N	2.31	0.45
1:M:59:ASN:HB3	1:M:61:ARG:NH1	2.31	0.45
1:M:410:VAL:HG12	1:M:411:THR:N	2.31	0.45
1:N:346:ARG:O	1:N:348:THR:HG23	2.16	0.45
1:N:390:THR:HG22	1:N:391:TYR:N	2.32	0.45
1:N:510:THR:O	1:N:520:ILE:HB	2.15	0.45
1:O:247:ILE:HG13	1:O:436:ILE:HD11	1.99	0.45
1:O:469:THR:HG21	1:P:453:PRO:HD2	1.97	0.45
1:P:104:SER:HB3	1:P:412:ARG:HG2	1.98	0.45
1:P:371:SER:HA	1:P:525:TRP:NE1	2.31	0.45
1:Q:69:ASN:O	1:Q:70:ASN:HB2	2.16	0.45
1:Q:138:GLN:NE2	1:Q:464:LEU:HD11	2.31	0.45
1:R:410:VAL:HG12	1:R:411:THR:N	2.31	0.45
1:T:347:PRO:HB2	1:T:352:TYR:HB2	1.98	0.45
1:U:183:TYR:CD2	1:5:221:MET:HE3	2.51	0.45
1:U:371:SER:HA	1:U:525:TRP:NE1	2.31	0.45
1:U:501:ILE:HD12	1:U:509:PRO:HA	1.99	0.45
1:V:68:GLN:O	1:V:94:PRO:HA	2.15	0.45
1:V:248:ASN:HB3	1:V:250:GLU:OE1	2.16	0.45
1:V:535:ILE:HG22	1:V:536:ASN:N	2.26	0.45
1:X:183:TYR:CD2	1:Y:221:MET:HE3	2.51	0.45
1:X:317:MET:HB3	1:X:335:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:410:VAL:HG12	1:X:411:THR:N	2.31	0.45
1:Z:390:THR:HG22	1:Z:391:TYR:N	2.32	0.45
1:1:199:GLU:O	1:1:200:LEU:HB2	2.15	0.45
1:3:61:ARG:NH1	1:3:178:MET:HE2	2.32	0.45
1:3:69:ASN:O	1:3:70:ASN:HB2	2.16	0.45
1:3:346:ARG:O	1:3:348:THR:HG23	2.16	0.45
1:3:390:THR:HG22	1:3:391:TYR:N	2.32	0.45
1:4:116:THR:HG21	1:4:494:HIS:CD2	2.51	0.45
1:5:59:ASN:HB3	1:5:61:ARG:NH1	2.31	0.45
1:5:317:MET:HB3	1:5:335:SER:OG	2.16	0.45
1:5:346:ARG:O	1:5:348:THR:HG23	2.16	0.45
1:5:510:THR:O	1:5:520:ILE:HB	2.15	0.45
1:b:113:GLN:OE1	1:e:490:PRO:HB3	2.16	0.45
1:b:346:ARG:O	1:b:348:THR:HG23	2.16	0.45
1:c:61:ARG:NH1	1:c:178:MET:HE2	2.32	0.45
1:e:139:ILE:HD11	1:e:467:TYR:CD2	2.50	0.45
1:e:247:ILE:HG13	1:e:436:ILE:HD11	1.99	0.45
1:e:390:THR:HG22	1:e:391:TYR:N	2.32	0.45
1:f:347:PRO:HB2	1:f:352:TYR:HB2	1.98	0.45
1:h:104:SER:HB3	1:h:412:ARG:HG2	1.98	0.45
1:k:59:ASN:HB3	1:k:61:ARG:NH1	2.31	0.45
1:l:68:GLN:O	1:l:94:PRO:HA	2.15	0.45
1:l:177:VAL:HG12	1:l:178:MET:H	1.80	0.45
1:n:177:VAL:HG12	1:n:178:MET:H	1.80	0.45
1:n:390:THR:HG22	1:n:391:TYR:N	2.32	0.45
1:n:510:THR:O	1:n:520:ILE:HB	2.15	0.45
1:o:104:SER:HB3	1:o:412:ARG:HG2	1.98	0.45
1:p:59:ASN:HB3	1:p:61:ARG:NH1	2.31	0.45
1:p:247:ILE:HG13	1:p:436:ILE:HD11	1.99	0.45
1:q:138:GLN:NE2	1:q:464:LEU:HD11	2.31	0.45
1:q:169:ALA:HB2	1:q:191:TYR:CD1	2.51	0.45
1:q:371:SER:HA	1:q:525:TRP:NE1	2.31	0.45
1:q:514:ASP:HB2	1:q:518:ALA:HB3	1.97	0.45
1:r:410:VAL:HG12	1:r:411:THR:N	2.31	0.45
1:s:169:ALA:HB2	1:s:191:TYR:CD1	2.51	0.45
1:s:410:VAL:HG12	1:s:411:THR:N	2.31	0.45
1:t:59:ASN:HB3	1:t:61:ARG:NH1	2.31	0.45
1:t:514:ASP:OD1	1:t:515:LYS:N	2.50	0.45
1:u:169:ALA:HB2	1:u:191:TYR:CD1	2.51	0.45
1:v:69:ASN:O	1:v:70:ASN:HB2	2.16	0.45
1:v:138:GLN:NE2	1:v:464:LEU:HD11	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:183:TYR:CD2	1:w:221:MET:HE3	2.51	0.45
1:v:347:PRO:HB2	1:v:352:TYR:HB2	1.98	0.45
1:w:275:ASN:CB	1:w:276:GLY:HA3	2.41	0.45
1:w:501:ILE:HD12	1:w:509:PRO:HA	1.99	0.45
1:x:410:VAL:HG12	1:x:411:THR:N	2.31	0.45
1:y:284:ARG:HB3	1:z:357:TYR:CE2	2.52	0.45
1:y:317:MET:HB3	1:y:335:SER:OG	2.16	0.45
1:y:371:SER:HA	1:y:525:TRP:NE1	2.31	0.45
1:8:138:GLN:NE2	1:8:464:LEU:HD11	2.31	0.45
1:8:275:ASN:CB	1:8:276:GLY:HA3	2.41	0.45
1:B:63:PHE:CE2	1:B:472:VAL:HG13	2.52	0.45
1:B:139:ILE:HD11	1:B:467:TYR:CD2	2.50	0.45
1:B:390:THR:HG22	1:B:391:TYR:N	2.32	0.45
1:B:535:ILE:HG22	1:B:536:ASN:N	2.26	0.45
1:C:514:ASP:HB2	1:C:518:ALA:HB3	1.97	0.45
1:D:59:ASN:HB3	1:D:61:ARG:NH1	2.31	0.45
1:D:177:VAL:HG12	1:D:178:MET:H	1.80	0.45
1:D:247:ILE:HG13	1:D:436:ILE:HD11	1.99	0.45
1:D:514:ASP:HB2	1:D:518:ALA:HB3	1.97	0.45
1:F:169:ALA:HB2	1:F:191:TYR:CD1	2.51	0.45
1:F:248:ASN:HB3	1:F:250:GLU:OE1	2.16	0.45
1:F:514:ASP:OD1	1:F:515:LYS:N	2.50	0.45
1:G:116:THR:HG21	1:G:494:HIS:CD2	2.51	0.45
1:G:284:ARG:HB3	1:I:357:TYR:CE2	2.51	0.45
1:G:390:THR:HG22	1:G:391:TYR:N	2.32	0.45
1:H:61:ARG:NH1	1:H:178:MET:HE2	2.32	0.45
1:H:221:MET:HE3	1:Z:183:TYR:CD2	2.51	0.45
1:I:183:TYR:CD2	1:J:221:MET:HE3	2.51	0.45
1:J:247:ILE:HG13	1:J:436:ILE:HD11	1.99	0.45
1:K:61:ARG:NH1	1:K:178:MET:HE2	2.32	0.45
1:K:347:PRO:HB2	1:K:352:TYR:HB2	1.98	0.45
1:M:183:TYR:CD2	1:N:221:MET:HE3	2.51	0.45
1:M:357:TYR:C	1:M:359:THR:H	2.24	0.45
1:N:116:THR:HG21	1:N:494:HIS:CD2	2.51	0.45
1:O:371:SER:HA	1:O:525:TRP:NE1	2.32	0.45
1:O:501:ILE:HD12	1:O:509:PRO:HA	1.99	0.45
1:Q:113:GLN:OE1	1:R:490:PRO:HB3	2.16	0.45
1:Q:183:TYR:CD2	1:S:221:MET:HE3	2.51	0.45
1:R:61:ARG:NH1	1:R:178:MET:HE2	2.32	0.45
1:S:248:ASN:HB3	1:S:250:GLU:OE1	2.16	0.45
1:S:317:MET:HB3	1:S:335:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:469:THR:HG21	1:4:453:PRO:HD2	1.97	0.45
1:S:501:ILE:HD12	1:S:509:PRO:HA	1.99	0.45
1:T:61:ARG:NH1	1:T:178:MET:HE2	2.32	0.45
1:T:86:LYS:HD2	1:T:86:LYS:HA	1.78	0.45
1:T:501:ILE:HD12	1:T:509:PRO:HA	1.99	0.45
1:U:69:ASN:O	1:U:70:ASN:HB2	2.16	0.45
1:U:169:ALA:HB2	1:U:191:TYR:CD1	2.51	0.45
1:V:59:ASN:HB3	1:V:61:ARG:NH1	2.31	0.45
1:V:221:MET:HE3	1:W:183:TYR:CD2	2.51	0.45
1:W:317:MET:HB3	1:W:335:SER:OG	2.16	0.45
1:Y:248:ASN:HB3	1:Y:250:GLU:OE1	2.16	0.45
1:Z:317:MET:HB3	1:Z:335:SER:OG	2.16	0.45
1:Z:371:SER:HA	1:Z:525:TRP:NE1	2.31	0.45
1:Z:501:ILE:HD12	1:Z:509:PRO:HA	1.99	0.45
1:1:138:GLN:NE2	1:1:464:LEU:HD11	2.31	0.45
1:2:69:ASN:O	1:2:70:ASN:HB2	2.16	0.45
1:2:177:VAL:HG12	1:2:178:MET:H	1.80	0.45
1:2:501:ILE:HD12	1:2:509:PRO:HA	1.99	0.45
1:3:501:ILE:HD12	1:3:509:PRO:HA	1.99	0.45
1:4:138:GLN:NE2	1:4:464:LEU:HD11	2.31	0.45
1:4:275:ASN:CB	1:4:276:GLY:HA3	2.41	0.45
1:4:507:ILE:HG23	1:4:508:ASN:N	2.23	0.45
1:5:104:SER:HB3	1:5:412:ARG:HG2	1.98	0.45
1:6:514:ASP:OD1	1:6:515:LYS:N	2.50	0.45
1:a:116:THR:HG21	1:a:494:HIS:CD2	2.51	0.45
1:d:371:SER:HA	1:d:525:TRP:NE1	2.32	0.45
1:e:63:PHE:CE2	1:e:472:VAL:HG13	2.52	0.45
1:e:535:ILE:HG22	1:e:536:ASN:N	2.26	0.45
1:f:346:ARG:O	1:f:348:THR:HG23	2.16	0.45
1:h:390:THR:HG22	1:h:391:TYR:N	2.32	0.45
1:h:514:ASP:OD1	1:h:515:LYS:N	2.50	0.45
1:i:61:ARG:NH1	1:i:178:MET:HE2	2.32	0.45
1:i:347:PRO:HB2	1:i:352:TYR:HB2	1.98	0.45
1:j:59:ASN:HB3	1:j:61:ARG:NH1	2.31	0.45
1:k:61:ARG:NH1	1:k:178:MET:HE2	2.32	0.45
1:k:346:ARG:O	1:k:348:THR:HG23	2.16	0.45
1:l:61:ARG:NH1	1:l:178:MET:HE2	2.32	0.45
1:l:346:ARG:O	1:l:348:THR:HG23	2.16	0.45
1:m:59:ASN:HB3	1:m:61:ARG:NH1	2.31	0.45
1:n:113:GLN:OE1	1:y:490:PRO:HB3	2.16	0.45
1:n:116:THR:HG21	1:n:494:HIS:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:169:ALA:HB2	1:n:191:TYR:CD1	2.51	0.45
1:n:221:MET:HE3	1:s:183:TYR:CD2	2.52	0.45
1:n:514:ASP:HB2	1:n:518:ALA:HB3	1.97	0.45
1:o:371:SER:HA	1:o:525:TRP:NE1	2.31	0.45
1:o:453:PRO:HD2	1:y:469:THR:HG21	1.97	0.45
1:q:199:GLU:O	1:q:200:LEU:HB2	2.15	0.45
1:r:370:ILE:HG22	1:r:371:SER:N	2.29	0.45
1:r:371:SER:HA	1:r:525:TRP:NE1	2.31	0.45
1:r:501:ILE:HD12	1:r:509:PRO:HA	1.99	0.45
1:r:510:THR:O	1:r:520:ILE:HB	2.15	0.45
1:s:138:GLN:NE2	1:s:464:LEU:HD11	2.31	0.45
1:v:247:ILE:HG13	1:v:436:ILE:HD11	1.99	0.45
1:v:490:PRO:HB3	1:x:113:GLN:OE1	2.16	0.45
1:v:514:ASP:HB2	1:v:518:ALA:HB3	1.97	0.45
1:w:317:MET:HB3	1:w:335:SER:OG	2.16	0.45
1:w:371:SER:HA	1:w:525:TRP:NE1	2.31	0.45
1:w:469:THR:HG21	1:8:453:PRO:HD2	1.97	0.45
1:x:61:ARG:NH1	1:x:178:MET:HE2	2.32	0.45
1:z:169:ALA:HB2	1:z:191:TYR:CD1	2.51	0.45
1:7:501:ILE:HD12	1:7:509:PRO:HA	1.99	0.45
1:7:514:ASP:OD1	1:7:515:LYS:N	2.50	0.45
1:B:221:MET:HE3	1:C:183:TYR:CD2	2.51	0.45
1:D:63:PHE:CE2	1:D:472:VAL:HG13	2.52	0.45
1:D:138:GLN:NE2	1:D:464:LEU:HD11	2.31	0.45
1:E:61:ARG:NH1	1:E:178:MET:HE2	2.32	0.45
1:E:347:PRO:HB2	1:E:352:TYR:HB2	1.98	0.45
1:F:390:THR:HG22	1:F:391:TYR:N	2.32	0.45
1:F:410:VAL:HG12	1:F:411:THR:N	2.31	0.45
1:G:514:ASP:OD1	1:G:515:LYS:N	2.50	0.45
1:H:104:SER:HB3	1:H:412:ARG:HG2	1.98	0.45
1:H:346:ARG:O	1:H:348:THR:HG23	2.16	0.45
1:H:357:TYR:C	1:H:359:THR:H	2.24	0.45
1:I:275:ASN:CB	1:I:276:GLY:HA3	2.41	0.45
1:J:63:PHE:CE2	1:J:472:VAL:HG13	2.52	0.45
1:K:69:ASN:O	1:K:70:ASN:HB2	2.16	0.45
1:K:346:ARG:O	1:K:348:THR:HG23	2.16	0.45
1:L:139:ILE:HD11	1:L:467:TYR:CD2	2.50	0.45
1:L:317:MET:HB3	1:L:335:SER:OG	2.16	0.45
1:N:169:ALA:HB2	1:N:191:TYR:CD1	2.51	0.45
1:N:490:PRO:HB3	1:O:113:GLN:OE1	2.16	0.45
1:O:317:MET:HB3	1:O:335:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:247:ILE:HG13	1:P:436:ILE:HD11	1.99	0.45
1:P:317:MET:HB3	1:P:335:SER:OG	2.16	0.45
1:R:138:GLN:NE2	1:R:464:LEU:HD11	2.31	0.45
1:S:371:SER:HA	1:S:525:TRP:NE1	2.32	0.45
1:S:410:VAL:HG12	1:S:411:THR:N	2.31	0.45
1:S:490:PRO:HB3	1:T:113:GLN:OE1	2.16	0.45
1:T:59:ASN:HB3	1:T:61:ARG:NH1	2.31	0.45
1:T:138:GLN:NE2	1:T:464:LEU:HD11	2.31	0.45
1:T:357:TYR:C	1:T:359:THR:H	2.24	0.45
1:U:347:PRO:HB2	1:U:352:TYR:HB2	1.98	0.45
1:U:490:PRO:HB3	1:V:113:GLN:OE1	2.16	0.45
1:V:501:ILE:HD12	1:V:509:PRO:HA	1.99	0.45
1:W:61:ARG:NH1	1:W:178:MET:HE2	2.32	0.45
1:W:490:PRO:HB3	1:X:113:GLN:OE1	2.16	0.45
1:Y:59:ASN:HB3	1:Y:61:ARG:NH1	2.31	0.45
1:Y:347:PRO:HB2	1:Y:352:TYR:HB2	1.98	0.45
1:Y:357:TYR:C	1:Y:359:THR:H	2.24	0.45
1:Y:501:ILE:HD12	1:Y:509:PRO:HA	1.99	0.45
1:Z:63:PHE:CE2	1:Z:472:VAL:HG13	2.52	0.45
1:1:510:THR:O	1:1:520:ILE:HB	2.15	0.45
1:2:371:SER:HA	1:2:525:TRP:NE1	2.31	0.45
1:2:514:ASP:OD1	1:2:515:LYS:N	2.50	0.45
1:3:63:PHE:CE2	1:3:472:VAL:HG13	2.52	0.45
1:3:410:VAL:HG12	1:3:411:THR:N	2.31	0.45
1:4:501:ILE:HD12	1:4:509:PRO:HA	1.99	0.45
1:5:61:ARG:NH1	1:5:178:MET:HE2	2.32	0.45
1:5:183:TYR:CD2	1:b:221:MET:HE3	2.52	0.45
1:5:535:ILE:HG22	1:5:536:ASN:N	2.26	0.45
1:6:347:PRO:HB2	1:6:352:TYR:HB2	1.98	0.45
1:6:390:THR:HG22	1:6:391:TYR:N	2.32	0.45
1:b:59:ASN:HB3	1:b:61:ARG:NH1	2.31	0.45
1:b:69:ASN:O	1:b:70:ASN:HB2	2.16	0.45
1:c:63:PHE:CE2	1:c:472:VAL:HG13	2.52	0.45
1:c:113:GLN:OE1	1:f:490:PRO:HB3	2.16	0.45
1:c:139:ILE:HD11	1:c:467:TYR:CD2	2.50	0.45
1:c:247:ILE:HG13	1:c:436:ILE:HD11	1.99	0.45
1:d:41:THR:HG21	1:d:235:SER:CB	2.46	0.45
1:d:139:ILE:HD11	1:d:467:TYR:CD2	2.50	0.45
1:d:183:TYR:CD2	1:r:221:MET:HE3	2.51	0.45
1:d:317:MET:HB3	1:d:335:SER:OG	2.16	0.45
1:d:347:PRO:HB2	1:d:352:TYR:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:317:MET:HB3	1:e:335:SER:OG	2.16	0.45
1:f:61:ARG:NH1	1:f:178:MET:HE2	2.32	0.45
1:f:221:MET:HE3	1:h:183:TYR:CD2	2.51	0.45
1:h:514:ASP:HB2	1:h:518:ALA:HB3	1.97	0.45
1:i:346:ARG:O	1:i:348:THR:HG23	2.16	0.45
1:k:63:PHE:CE2	1:k:472:VAL:HG13	2.52	0.45
1:k:169:ALA:HB2	1:k:191:TYR:CD1	2.51	0.45
1:k:371:SER:HA	1:k:525:TRP:NE1	2.31	0.45
1:k:410:VAL:HG12	1:k:411:THR:N	2.31	0.45
1:l:69:ASN:O	1:l:70:ASN:HB2	2.16	0.45
1:l:410:VAL:HG12	1:l:411:THR:N	2.31	0.45
1:m:139:ILE:HD11	1:m:467:TYR:CD2	2.50	0.45
1:m:169:ALA:HB2	1:m:191:TYR:CD1	2.51	0.45
1:m:347:PRO:HB2	1:m:352:TYR:HB2	1.98	0.45
1:n:490:PRO:HB3	1:y:113:GLN:OE1	2.16	0.45
1:o:183:TYR:CD2	1:v:221:MET:HE3	2.51	0.45
1:o:221:MET:HE3	1:y:183:TYR:CD2	2.51	0.45
1:o:247:ILE:HG13	1:o:436:ILE:HD11	1.99	0.45
1:o:317:MET:HB3	1:o:335:SER:OG	2.16	0.45
1:p:63:PHE:CE2	1:p:472:VAL:HG13	2.52	0.45
1:p:221:MET:HE3	1:u:183:TYR:CD2	2.51	0.45
1:p:317:MET:HB3	1:p:335:SER:OG	2.16	0.45
1:q:317:MET:HB3	1:q:335:SER:OG	2.16	0.45
1:q:357:TYR:C	1:q:359:THR:H	2.24	0.45
1:r:116:THR:HG21	1:r:494:HIS:CD2	2.51	0.45
1:r:514:ASP:OD1	1:r:515:LYS:N	2.50	0.45
1:t:169:ALA:HB2	1:t:191:TYR:CD1	2.51	0.45
1:t:390:THR:HG22	1:t:391:TYR:N	2.32	0.45
1:t:501:ILE:HD12	1:t:509:PRO:HA	1.99	0.45
1:v:61:ARG:NH1	1:v:178:MET:HE2	2.32	0.45
1:x:347:PRO:HB2	1:x:352:TYR:HB2	1.98	0.45
1:7:390:THR:HG22	1:7:391:TYR:N	2.32	0.45
1:7:514:ASP:HB2	1:7:518:ALA:HB3	1.97	0.45
1:8:501:ILE:HD12	1:8:509:PRO:HA	1.99	0.45
1:C:247:ILE:HG13	1:C:436:ILE:HD11	1.99	0.45
1:D:317:MET:HB3	1:D:335:SER:OG	2.16	0.45
1:E:490:PRO:HB3	1:P:113:GLN:OE1	2.16	0.45
1:F:514:ASP:HB2	1:F:518:ALA:HB3	1.97	0.45
1:G:59:ASN:HB3	1:G:61:ARG:NH1	2.31	0.45
1:G:118:GLU:HG2	1:H:118:GLU:OE2	2.16	0.45
1:G:133:ASN:HD21	1:W:229:VAL:HG21	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:347:PRO:HB2	1:G:352:TYR:HB2	1.98	0.45
1:I:59:ASN:HB3	1:I:61:ARG:NH1	2.31	0.45
1:I:61:ARG:NH1	1:I:178:MET:HE2	2.32	0.45
1:K:59:ASN:HB3	1:K:61:ARG:NH1	2.31	0.45
1:K:63:PHE:CE2	1:K:472:VAL:HG13	2.52	0.45
1:K:183:TYR:CD2	1:L:221:MET:HE3	2.52	0.45
1:L:41:THR:HG21	1:L:235:SER:CB	2.46	0.45
1:L:138:GLN:NE2	1:L:464:LEU:HD11	2.31	0.45
1:L:183:TYR:CD2	1:2:221:MET:HE3	2.51	0.45
1:L:247:ILE:HG13	1:L:436:ILE:HD11	1.99	0.45
1:L:347:PRO:HB2	1:L:352:TYR:HB2	1.98	0.45
1:L:390:THR:HG22	1:L:391:TYR:N	2.32	0.45
1:M:138:GLN:NE2	1:M:464:LEU:HD11	2.31	0.45
1:M:247:ILE:HG13	1:M:436:ILE:HD11	1.99	0.45
1:Q:61:ARG:NH1	1:Q:178:MET:HE2	2.32	0.45
1:Q:410:VAL:HG12	1:Q:411:THR:N	2.31	0.45
1:Q:514:ASP:HB2	1:Q:518:ALA:HB3	1.97	0.45
1:R:104:SER:HB3	1:R:412:ARG:HG2	1.98	0.45
1:R:347:PRO:HB2	1:R:352:TYR:HB2	1.98	0.45
1:T:514:ASP:OD1	1:T:515:LYS:N	2.50	0.45
1:U:63:PHE:CE2	1:U:472:VAL:HG13	2.52	0.45
1:U:116:THR:HG21	1:U:494:HIS:CD2	2.51	0.45
1:U:317:MET:HB3	1:U:335:SER:OG	2.16	0.45
1:V:357:TYR:C	1:V:359:THR:H	2.24	0.45
1:V:507:ILE:HG23	1:V:508:ASN:N	2.23	0.45
1:W:59:ASN:HB3	1:W:61:ARG:NH1	2.31	0.45
1:X:61:ARG:NH1	1:X:178:MET:HE2	2.32	0.45
1:X:507:ILE:HG23	1:X:508:ASN:N	2.23	0.45
1:Z:59:ASN:HB3	1:Z:61:ARG:NH1	2.31	0.45
1:Z:61:ARG:NH1	1:Z:178:MET:HE2	2.32	0.45
1:1:59:ASN:HB3	1:1:61:ARG:NH1	2.31	0.45
1:1:357:TYR:C	1:1:359:THR:H	2.24	0.45
1:1:514:ASP:OD1	1:1:515:LYS:N	2.50	0.45
1:2:116:THR:HG21	1:2:494:HIS:CD2	2.51	0.45
1:2:370:ILE:HG22	1:2:371:SER:N	2.29	0.45
1:2:510:THR:O	1:2:520:ILE:HB	2.15	0.45
1:3:169:ALA:HB2	1:3:191:TYR:CD1	2.51	0.45
1:3:371:SER:HA	1:3:525:TRP:NE1	2.31	0.45
1:5:357:TYR:C	1:5:359:THR:H	2.24	0.45
1:a:41:THR:HG21	1:a:235:SER:CB	2.46	0.45
1:a:183:TYR:CD2	1:u:221:MET:HE3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:247:ILE:HG13	1:a:436:ILE:HD11	1.98	0.45
1:b:61:ARG:NH1	1:b:178:MET:HE2	2.32	0.45
1:b:317:MET:HB3	1:b:335:SER:OG	2.16	0.45
1:c:199:GLU:O	1:c:200:LEU:HB2	2.15	0.45
1:d:247:ILE:HG13	1:d:436:ILE:HD11	1.99	0.45
1:e:221:MET:HE3	1:q:183:TYR:CD2	2.51	0.45
1:e:371:SER:HA	1:e:525:TRP:NE1	2.31	0.45
1:f:63:PHE:CE2	1:f:472:VAL:HG13	2.52	0.45
1:h:501:ILE:HD12	1:h:509:PRO:HA	1.99	0.45
1:h:515:LYS:HB3	1:h:516:ASN:CB	2.47	0.45
1:i:357:TYR:C	1:i:359:THR:H	2.24	0.45
1:i:410:VAL:HG12	1:i:411:THR:N	2.31	0.45
1:j:247:ILE:HG13	1:j:436:ILE:HD11	1.99	0.45
1:l:347:PRO:HB2	1:l:352:TYR:HB2	1.98	0.45
1:l:371:SER:HA	1:l:525:TRP:NE1	2.32	0.45
1:m:63:PHE:CE2	1:m:472:VAL:HG13	2.52	0.45
1:m:247:ILE:HG13	1:m:436:ILE:HD11	1.99	0.45
1:o:118:GLU:OE2	1:u:118:GLU:HG2	2.17	0.45
1:p:138:GLN:NE2	1:p:464:LEU:HD11	2.31	0.45
1:p:514:ASP:HB2	1:p:518:ALA:HB3	1.97	0.45
1:s:247:ILE:HG13	1:s:436:ILE:HD11	1.99	0.45
1:s:535:ILE:HG22	1:s:536:ASN:N	2.26	0.45
1:t:248:ASN:HB3	1:t:250:GLU:OE1	2.16	0.45
1:t:371:SER:HA	1:t:525:TRP:NE1	2.31	0.45
1:u:61:ARG:NH1	1:u:178:MET:HE2	2.32	0.45
1:u:347:PRO:HB2	1:u:352:TYR:HB2	1.98	0.45
1:v:63:PHE:CE2	1:v:472:VAL:HG13	2.52	0.45
1:v:113:GLN:OE1	1:x:490:PRO:HB3	2.16	0.45
1:v:410:VAL:HG12	1:v:411:THR:N	2.31	0.45
1:v:535:ILE:HG22	1:v:536:ASN:N	2.26	0.45
1:x:86:LYS:HA	1:x:86:LYS:HD2	1.78	0.45
1:x:104:SER:HB3	1:x:412:ARG:HG2	1.98	0.45
1:y:221:MET:HE1	1:8:182:PRO:HD2	1.99	0.45
1:z:248:ASN:HB3	1:z:250:GLU:OE1	2.16	0.45
1:7:515:LYS:HB3	1:7:516:ASN:CB	2.47	0.45
1:A:247:ILE:HG13	1:A:436:ILE:HD11	1.99	0.45
1:A:357:TYR:C	1:A:359:THR:H	2.24	0.45
1:B:371:SER:HA	1:B:525:TRP:NE1	2.32	0.45
1:C:63:PHE:CE2	1:C:472:VAL:HG13	2.52	0.45
1:C:317:MET:HB3	1:C:335:SER:OG	2.16	0.45
1:C:357:TYR:C	1:C:359:THR:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:118:GLU:HG2	1:P:118:GLU:OE2	2.17	0.45
1:F:63:PHE:CE2	1:F:472:VAL:HG13	2.52	0.45
1:F:501:ILE:HD12	1:F:509:PRO:HA	1.99	0.45
1:I:138:GLN:NE2	1:I:464:LEU:HD11	2.31	0.45
1:I:371:SER:HA	1:I:525:TRP:NE1	2.31	0.45
1:J:113:GLN:OE1	1:K:490:PRO:HB3	2.16	0.45
1:J:139:ILE:HD11	1:J:467:TYR:CD2	2.50	0.45
1:J:410:VAL:HG12	1:J:411:THR:N	2.31	0.45
1:K:317:MET:HB3	1:K:335:SER:OG	2.16	0.45
1:K:514:ASP:OD1	1:K:515:LYS:N	2.50	0.45
1:M:41:THR:HG21	1:M:235:SER:CB	2.46	0.45
1:M:390:THR:HG22	1:M:391:TYR:N	2.32	0.45
1:M:501:ILE:HD12	1:M:509:PRO:HA	1.99	0.45
1:Q:63:PHE:CE2	1:Q:472:VAL:HG13	2.52	0.45
1:Q:535:ILE:HG22	1:Q:536:ASN:N	2.26	0.45
1:T:510:THR:O	1:T:520:ILE:HB	2.15	0.45
1:U:61:ARG:NH1	1:U:178:MET:HE2	2.32	0.45
1:V:347:PRO:HB2	1:V:352:TYR:HB2	1.98	0.45
1:X:59:ASN:HB3	1:X:61:ARG:NH1	2.31	0.45
1:X:69:ASN:O	1:X:70:ASN:HB2	2.16	0.45
1:Y:113:GLN:OE1	1:Z:490:PRO:HB3	2.16	0.45
1:Z:347:PRO:HB2	1:Z:352:TYR:HB2	1.98	0.45
1:Z:514:ASP:HB2	1:Z:518:ALA:HB3	1.97	0.45
1:4:490:PRO:HB3	1:h:113:GLN:OE1	2.16	0.45
1:6:317:MET:HB3	1:6:335:SER:OG	2.16	0.45
1:b:138:GLN:NE2	1:b:464:LEU:HD11	2.31	0.45
1:c:284:ARG:HB3	1:d:357:TYR:CE2	2.52	0.45
1:d:138:GLN:NE2	1:d:464:LEU:HD11	2.31	0.45
1:d:221:MET:HE3	1:f:183:TYR:CD2	2.52	0.45
1:d:390:THR:HG22	1:d:391:TYR:N	2.32	0.45
1:d:492:ARG:HG3	1:q:497:LEU:HD13	1.99	0.45
1:g:371:SER:HA	1:g:525:TRP:NE1	2.31	0.45
1:h:410:VAL:HG12	1:h:411:THR:N	2.31	0.45
1:i:63:PHE:CE2	1:i:472:VAL:HG13	2.52	0.45
1:i:69:ASN:O	1:i:70:ASN:HB2	2.16	0.45
1:i:490:PRO:HB3	1:z:113:GLN:OE1	2.16	0.45
1:i:514:ASP:OD1	1:i:515:LYS:N	2.50	0.45
1:i:515:LYS:HB3	1:i:516:ASN:CB	2.47	0.45
1:j:169:ALA:HB2	1:j:191:TYR:CD1	2.51	0.45
1:j:347:PRO:HB2	1:j:352:TYR:HB2	1.98	0.45
1:k:514:ASP:OD1	1:k:515:LYS:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:63:PHE:CE2	1:l:472:VAL:HG13	2.52	0.45
1:l:357:TYR:C	1:l:359:THR:H	2.24	0.45
1:l:514:ASP:OD1	1:l:515:LYS:N	2.50	0.45
1:l:515:LYS:HB3	1:l:516:ASN:CB	2.47	0.45
1:n:138:GLN:NE2	1:n:464:LEU:HD11	2.31	0.45
1:n:182:PRO:HD2	1:z:221:MET:HE1	1.99	0.45
1:n:347:PRO:HB2	1:n:352:TYR:HB2	1.98	0.45
1:o:357:TYR:C	1:o:359:THR:H	2.24	0.45
1:p:410:VAL:HG12	1:p:411:THR:N	2.31	0.45
1:q:63:PHE:CE2	1:q:472:VAL:HG13	2.52	0.45
1:q:139:ILE:HD11	1:q:467:TYR:CD2	2.50	0.45
1:q:247:ILE:HG13	1:q:436:ILE:HD11	1.99	0.45
1:s:501:ILE:HD12	1:s:509:PRO:HA	1.99	0.45
1:t:410:VAL:HG12	1:t:411:THR:N	2.31	0.45
1:t:514:ASP:HB2	1:t:518:ALA:HB3	1.97	0.45
1:u:63:PHE:CE2	1:u:472:VAL:HG13	2.52	0.45
1:w:357:TYR:C	1:w:359:THR:H	2.24	0.45
1:w:410:VAL:HG12	1:w:411:THR:N	2.31	0.45
1:x:138:GLN:NE2	1:x:464:LEU:HD11	2.31	0.45
1:y:514:ASP:OD1	1:y:515:LYS:N	2.50	0.45
1:A:41:THR:HG21	1:A:235:SER:CB	2.46	0.45
1:A:221:MET:HE3	1:B:183:TYR:CD2	2.51	0.45
1:A:497:LEU:HD13	1:F:492:ARG:HG3	1.99	0.45
1:B:347:PRO:O	1:B:348:THR:OG1	2.23	0.45
1:C:61:ARG:NH1	1:C:178:MET:HE2	2.32	0.45
1:C:139:ILE:HD11	1:C:467:TYR:CD2	2.50	0.45
1:C:284:ARG:HB3	1:2:357:TYR:CE2	2.52	0.45
1:C:347:PRO:HB2	1:C:352:TYR:HB2	1.98	0.45
1:D:410:VAL:HG12	1:D:411:THR:N	2.31	0.45
1:E:63:PHE:CE2	1:E:472:VAL:HG13	2.52	0.45
1:F:510:THR:O	1:F:520:ILE:HB	2.15	0.45
1:G:247:ILE:HG13	1:G:436:ILE:HD11	1.98	0.45
1:H:247:ILE:HG13	1:H:436:ILE:HD11	1.99	0.45
1:H:371:SER:HA	1:H:525:TRP:NE1	2.31	0.45
1:H:514:ASP:OD1	1:H:515:LYS:N	2.50	0.45
1:I:317:MET:HB3	1:I:335:SER:OG	2.16	0.45
1:J:138:GLN:NE2	1:J:464:LEU:HD11	2.31	0.45
1:J:284:ARG:HB3	1:L:357:TYR:CE2	2.52	0.45
1:J:501:ILE:HD12	1:J:509:PRO:HA	1.99	0.45
1:L:59:ASN:HB3	1:L:61:ARG:NH1	2.31	0.45
1:N:63:PHE:CE2	1:N:472:VAL:HG13	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:138:GLN:NE2	1:N:464:LEU:HD11	2.31	0.45
1:N:347:PRO:HB2	1:N:352:TYR:HB2	1.98	0.45
1:O:514:ASP:OD1	1:O:515:LYS:N	2.50	0.45
1:P:183:TYR:CD2	1:Q:221:MET:HE3	2.51	0.45
1:S:357:TYR:C	1:S:359:THR:H	2.24	0.45
1:T:410:VAL:HG12	1:T:411:THR:N	2.31	0.45
1:U:247:ILE:HG13	1:U:436:ILE:HD11	1.99	0.45
1:W:69:ASN:O	1:W:70:ASN:HB2	2.16	0.45
1:X:501:ILE:HD12	1:X:509:PRO:HA	1.99	0.45
1:X:514:ASP:OD1	1:X:515:LYS:N	2.50	0.45
1:Y:507:ILE:HG23	1:Y:508:ASN:N	2.23	0.45
1:Y:514:ASP:OD1	1:Y:515:LYS:N	2.50	0.45
1:Z:116:THR:HG21	1:Z:494:HIS:CD2	2.51	0.45
1:Z:247:ILE:HG13	1:Z:436:ILE:HD11	1.99	0.45
1:1:248:ASN:HB3	1:1:250:GLU:OE1	2.16	0.45
1:1:515:LYS:HB3	1:1:516:ASN:CB	2.47	0.45
1:2:497:LEU:HD13	1:3:492:ARG:HG3	1.99	0.45
1:3:514:ASP:OD1	1:3:515:LYS:N	2.50	0.45
1:4:492:ARG:HG3	1:h:497:LEU:HD13	1.99	0.45
1:5:247:ILE:HG13	1:5:436:ILE:HD11	1.98	0.45
1:6:59:ASN:HB3	1:6:61:ARG:NH1	2.31	0.45
1:6:221:MET:HE3	1:t:183:TYR:CD2	2.51	0.45
1:6:247:ILE:HG13	1:6:436:ILE:HD11	1.98	0.45
1:a:113:GLN:OE1	1:t:490:PRO:HB3	2.16	0.45
1:a:317:MET:HB3	1:a:335:SER:OG	2.16	0.45
1:b:275:ASN:CB	1:b:276:GLY:HA3	2.41	0.45
1:b:371:SER:HA	1:b:525:TRP:NE1	2.31	0.45
1:c:138:GLN:NE2	1:c:464:LEU:HD11	2.31	0.45
1:c:410:VAL:HG12	1:c:411:THR:N	2.32	0.45
1:c:501:ILE:HD12	1:c:509:PRO:HA	1.99	0.45
1:d:59:ASN:HB3	1:d:61:ARG:NH1	2.31	0.45
1:e:347:PRO:O	1:e:348:THR:OG1	2.23	0.45
1:f:59:ASN:HB3	1:f:61:ARG:NH1	2.31	0.45
1:f:317:MET:HB3	1:f:335:SER:OG	2.16	0.45
1:f:514:ASP:OD1	1:f:515:LYS:N	2.50	0.45
1:g:63:PHE:CE2	1:g:472:VAL:HG13	2.52	0.45
1:g:177:VAL:HG12	1:g:178:MET:H	1.80	0.45
1:g:284:ARG:HB3	1:h:357:TYR:CE2	2.52	0.45
1:i:371:SER:HA	1:i:525:TRP:NE1	2.32	0.45
1:j:63:PHE:CE2	1:j:472:VAL:HG13	2.52	0.45
1:j:371:SER:HA	1:j:525:TRP:NE1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:492:ARG:HG3	1:r:497:LEU:HD13	1.99	0.45
1:n:61:ARG:NH1	1:n:178:MET:HE2	2.32	0.45
1:n:63:PHE:CE2	1:n:472:VAL:HG13	2.52	0.45
1:o:113:GLN:OE1	1:u:490:PRO:HB3	2.16	0.45
1:q:61:ARG:NH1	1:q:178:MET:HE2	2.32	0.45
1:q:357:TYR:CE2	1:s:284:ARG:HB3	2.52	0.45
1:v:346:ARG:O	1:v:348:THR:HG23	2.16	0.45
1:y:169:ALA:HB2	1:y:191:TYR:CD1	2.51	0.45
1:y:275:ASN:CB	1:y:276:GLY:HA3	2.42	0.45
1:y:357:TYR:CE2	1:7:284:ARG:HB3	2.52	0.45
1:z:371:SER:HA	1:z:525:TRP:NE1	2.32	0.45
1:7:113:GLN:OE1	1:8:490:PRO:HB3	2.16	0.45
1:7:247:ILE:HG13	1:7:436:ILE:HD11	1.99	0.45
1:7:410:VAL:HG12	1:7:411:THR:N	2.31	0.45
1:7:497:LEU:HD13	1:8:492:ARG:HG3	1.99	0.45
1:8:514:ASP:OD1	1:8:515:LYS:N	2.50	0.45
1:A:275:ASN:CB	1:A:276:GLY:HA3	2.41	0.45
1:A:317:MET:HB3	1:A:335:SER:OG	2.16	0.45
1:B:492:ARG:HG3	1:I:497:LEU:HD13	1.99	0.45
1:C:497:LEU:HD13	1:L:492:ARG:HG3	1.99	0.45
1:D:107:PHE:C	1:D:412:ARG:HH12	2.19	0.45
1:F:133:ASN:ND2	1:G:229:VAL:HG21	2.32	0.45
1:F:371:SER:HA	1:F:525:TRP:NE1	2.32	0.45
1:G:317:MET:HB3	1:G:335:SER:OG	2.16	0.45
1:G:385:ARG:HB3	1:I:316:TRP:CZ3	2.52	0.45
1:H:284:ARG:HB3	1:W:357:TYR:CE2	2.52	0.45
1:I:104:SER:HB3	1:I:412:ARG:HG2	1.98	0.45
1:J:118:GLU:OE2	1:K:118:GLU:HG2	2.17	0.45
1:K:284:ARG:HB3	1:l:357:TYR:CE2	2.52	0.45
1:K:371:SER:HA	1:K:525:TRP:NE1	2.32	0.45
1:N:61:ARG:NH1	1:N:178:MET:HE2	2.32	0.45
1:N:182:PRO:HD2	1:g:221:MET:HE1	1.99	0.45
1:N:183:TYR:CD2	1:g:221:MET:HE3	2.51	0.45
1:P:347:PRO:HB2	1:P:352:TYR:HB2	1.98	0.45
1:Q:346:ARG:O	1:Q:348:THR:HG23	2.16	0.45
1:Q:514:ASP:OD1	1:Q:515:LYS:N	2.50	0.45
1:T:41:THR:HG21	1:T:235:SER:CB	2.46	0.45
1:T:248:ASN:HB3	1:T:250:GLU:OE1	2.16	0.45
1:T:357:TYR:CE2	1:f:284:ARG:HB3	2.52	0.45
1:T:515:LYS:HB3	1:T:516:ASN:CB	2.47	0.45
1:U:59:ASN:HB3	1:U:61:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:514:ASP:HB2	1:U:518:ALA:HB3	1.97	0.45
1:V:371:SER:HA	1:V:525:TRP:NE1	2.32	0.45
1:V:514:ASP:OD1	1:V:515:LYS:N	2.50	0.45
1:W:63:PHE:CE2	1:W:472:VAL:HG13	2.52	0.45
1:W:138:GLN:NE2	1:W:464:LEU:HD11	2.31	0.45
1:W:501:ILE:HD12	1:W:509:PRO:HA	1.99	0.45
1:W:514:ASP:OD1	1:W:515:LYS:N	2.50	0.45
1:W:515:LYS:HB3	1:W:516:ASN:CB	2.47	0.45
1:X:515:LYS:HB3	1:X:516:ASN:CB	2.47	0.45
1:1:113:GLN:OE1	1:w:490:PRO:HB3	2.16	0.45
1:3:221:MET:HE3	1:m:183:TYR:CD2	2.52	0.45
1:4:247:ILE:HG13	1:4:436:ILE:HD11	1.99	0.45
1:4:514:ASP:OD1	1:4:515:LYS:N	2.50	0.45
1:5:514:ASP:OD1	1:5:515:LYS:N	2.50	0.45
1:6:139:ILE:HD11	1:6:467:TYR:CD2	2.50	0.45
1:a:357:TYR:C	1:a:359:THR:H	2.24	0.45
1:a:453:PRO:HD2	1:e:469:THR:HG21	1.98	0.45
1:b:104:SER:HB3	1:b:412:ARG:HG2	1.98	0.45
1:b:183:TYR:CD2	1:c:221:MET:HE3	2.51	0.45
1:c:118:GLU:OE2	1:f:118:GLU:HG2	2.17	0.45
1:f:371:SER:HA	1:f:525:TRP:NE1	2.31	0.45
1:g:248:ASN:HB3	1:g:250:GLU:OE1	2.16	0.45
1:h:116:THR:HG21	1:h:494:HIS:CD2	2.51	0.45
1:h:247:ILE:HG13	1:h:436:ILE:HD11	1.99	0.45
1:i:116:THR:HG21	1:i:494:HIS:CD2	2.51	0.45
1:i:247:ILE:HG13	1:i:436:ILE:HD11	1.99	0.45
1:j:317:MET:HB3	1:j:335:SER:OG	2.16	0.45
1:l:116:THR:HG21	1:l:494:HIS:CD2	2.51	0.45
1:m:317:MET:HB3	1:m:335:SER:OG	2.16	0.45
1:n:317:MET:HB3	1:n:335:SER:OG	2.16	0.45
1:o:138:GLN:NE2	1:o:464:LEU:HD11	2.31	0.45
1:q:284:ARG:HB3	1:r:357:TYR:CE2	2.52	0.45
1:q:347:PRO:HB2	1:q:352:TYR:HB2	1.98	0.45
1:r:284:ARG:HB3	1:s:357:TYR:CE2	2.52	0.45
1:s:41:THR:HG21	1:s:235:SER:CB	2.46	0.45
1:t:63:PHE:CE2	1:t:472:VAL:HG13	2.52	0.45
1:t:347:PRO:HB2	1:t:352:TYR:HB2	1.98	0.45
1:t:510:THR:O	1:t:520:ILE:HB	2.15	0.45
1:t:515:LYS:HB3	1:t:516:ASN:CB	2.47	0.45
1:v:514:ASP:OD1	1:v:515:LYS:N	2.50	0.45
1:x:515:LYS:HB3	1:x:516:ASN:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:284:ARG:HB3	1:7:357:TYR:CE2	2.52	0.45
1:7:63:PHE:CE2	1:7:472:VAL:HG13	2.52	0.45
1:8:247:ILE:HG13	1:8:436:ILE:HD11	1.99	0.45
1:A:113:GLN:OE1	1:F:490:PRO:HB3	2.16	0.45
1:B:490:PRO:HB3	1:I:113:GLN:OE1	2.16	0.45
1:C:118:GLU:HG2	1:L:118:GLU:OE2	2.17	0.45
1:D:501:ILE:HD12	1:D:509:PRO:HA	1.99	0.45
1:F:515:LYS:HB3	1:F:516:ASN:CB	2.47	0.45
1:G:495:THR:HG23	1:H:493:ARG:H	1.82	0.45
1:G:515:LYS:HB3	1:G:516:ASN:CB	2.47	0.45
1:J:514:ASP:OD1	1:J:515:LYS:N	2.50	0.45
1:M:357:TYR:CE2	1:2:284:ARG:HB3	2.52	0.45
1:N:107:PHE:C	1:N:412:ARG:HH12	2.19	0.45
1:O:169:ALA:HB2	1:O:191:TYR:CD1	2.51	0.45
1:P:63:PHE:CE2	1:P:472:VAL:HG13	2.52	0.45
1:P:138:GLN:NE2	1:P:464:LEU:HD11	2.31	0.45
1:P:357:TYR:C	1:P:359:THR:H	2.24	0.45
1:R:221:MET:HE1	1:V:182:PRO:HD2	1.99	0.45
1:R:229:VAL:HG21	1:V:133:ASN:ND2	2.32	0.45
1:R:515:LYS:HB3	1:R:516:ASN:CB	2.47	0.45
1:T:221:MET:HE3	1:c:183:TYR:CD2	2.52	0.45
1:V:247:ILE:HG13	1:V:436:ILE:HD11	1.98	0.45
1:W:118:GLU:HG2	1:X:118:GLU:OE2	2.17	0.45
1:W:247:ILE:HG13	1:W:436:ILE:HD11	1.99	0.45
1:W:492:ARG:HG3	1:X:497:LEU:HD13	2.00	0.45
1:X:138:GLN:NE2	1:X:464:LEU:HD11	2.31	0.45
1:X:247:ILE:HG13	1:X:436:ILE:HD11	1.99	0.45
1:Y:133:ASN:ND2	1:x:229:VAL:HG21	2.32	0.45
1:Y:182:PRO:HD2	1:x:221:MET:HE1	1.99	0.45
1:1:69:ASN:O	1:1:70:ASN:HB2	2.16	0.45
1:1:410:VAL:HG12	1:1:411:THR:N	2.31	0.45
1:1:490:PRO:HB3	1:w:113:GLN:OE1	2.16	0.45
1:2:514:ASP:HB2	1:2:518:ALA:HB3	1.97	0.45
1:5:492:ARG:HG3	1:6:497:LEU:HD13	1.99	0.45
1:6:515:LYS:HB3	1:6:516:ASN:CB	2.47	0.45
1:a:63:PHE:CE2	1:a:472:VAL:HG13	2.52	0.45
1:a:501:ILE:HD12	1:a:509:PRO:HA	1.99	0.45
1:c:41:THR:HG21	1:c:235:SER:CB	2.46	0.45
1:f:221:MET:HE1	1:h:182:PRO:HD2	1.99	0.45
1:f:248:ASN:HB3	1:f:250:GLU:OE1	2.16	0.45
1:g:113:GLN:OE1	1:l:490:PRO:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:390:THR:HG22	1:i:391:TYR:N	2.32	0.45
1:j:183:TYR:CD2	1:k:221:MET:HE3	2.52	0.45
1:l:247:ILE:HG13	1:l:436:ILE:HD11	1.99	0.45
1:m:371:SER:HA	1:m:525:TRP:NE1	2.31	0.45
1:n:183:TYR:CD2	1:z:221:MET:HE3	2.52	0.45
1:n:357:TYR:CE2	1:p:284:ARG:HB3	2.52	0.45
1:o:63:PHE:CE2	1:o:472:VAL:HG13	2.52	0.45
1:o:347:PRO:HB2	1:o:352:TYR:HB2	1.98	0.45
1:o:390:THR:HG22	1:o:391:TYR:N	2.32	0.45
1:r:514:ASP:HB2	1:r:518:ALA:HB3	1.97	0.45
1:s:63:PHE:CE2	1:s:472:VAL:HG13	2.52	0.45
1:s:390:THR:HG22	1:s:391:TYR:N	2.32	0.45
1:y:61:ARG:NH1	1:y:178:MET:HE2	2.32	0.45
1:z:63:PHE:CE2	1:z:472:VAL:HG13	2.52	0.45
1:z:177:VAL:HG12	1:z:178:MET:H	1.80	0.45
1:7:535:ILE:HG22	1:7:536:ASN:N	2.26	0.45
1:A:63:PHE:CE2	1:A:472:VAL:HG13	2.52	0.44
1:A:501:ILE:HD12	1:A:509:PRO:HA	1.99	0.44
1:C:357:TYR:CE2	1:M:284:ARG:HB3	2.52	0.44
1:D:347:PRO:HB2	1:D:352:TYR:HB2	1.98	0.44
1:D:357:TYR:CE2	1:P:284:ARG:HB3	2.52	0.44
1:D:514:ASP:OD1	1:D:515:LYS:N	2.50	0.44
1:E:371:SER:HA	1:E:525:TRP:NE1	2.31	0.44
1:F:347:PRO:HB2	1:F:352:TYR:HB2	1.98	0.44
1:G:118:GLU:OE2	1:H:118:GLU:HG2	2.17	0.44
1:G:139:ILE:HD11	1:G:467:TYR:CD2	2.50	0.44
1:H:347:PRO:HB2	1:H:352:TYR:HB2	1.98	0.44
1:I:347:PRO:HB2	1:I:352:TYR:HB2	1.98	0.44
1:I:514:ASP:OD1	1:I:515:LYS:N	2.50	0.44
1:J:41:THR:HG21	1:J:235:SER:CB	2.46	0.44
1:L:86:LYS:HD2	1:L:86:LYS:HA	1.78	0.44
1:L:104:SER:HB3	1:L:412:ARG:HG2	1.98	0.44
1:L:182:PRO:HD2	1:2:221:MET:HE1	1.99	0.44
1:M:229:VAL:HG21	1:3:133:ASN:ND2	2.33	0.44
1:M:248:ASN:HB3	1:M:250:GLU:OE1	2.16	0.44
1:M:371:SER:HA	1:M:525:TRP:NE1	2.31	0.44
1:N:317:MET:HB3	1:N:335:SER:OG	2.16	0.44
1:N:501:ILE:HD12	1:N:509:PRO:HA	1.99	0.44
1:O:221:MET:HE1	1:4:182:PRO:HD2	1.99	0.44
1:O:275:ASN:CB	1:O:276:GLY:HA3	2.41	0.44
1:Q:501:ILE:HD12	1:Q:509:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:357:TYR:CE2	1:U:284:ARG:HB3	2.52	0.44
1:S:113:GLN:OE1	1:T:490:PRO:HB3	2.16	0.44
1:T:63:PHE:CE2	1:T:472:VAL:HG13	2.52	0.44
1:T:317:MET:HB3	1:T:335:SER:OG	2.16	0.44
1:V:284:ARG:HB3	1:5:357:TYR:CE2	2.52	0.44
1:W:118:GLU:OE2	1:X:118:GLU:HG2	2.17	0.44
1:W:497:LEU:HD13	1:X:492:ARG:HG3	2.00	0.44
1:X:63:PHE:CE2	1:X:472:VAL:HG13	2.52	0.44
1:Y:371:SER:HA	1:Y:525:TRP:NE1	2.32	0.44
1:1:41:THR:HG21	1:1:235:SER:CB	2.46	0.44
1:1:317:MET:HB3	1:1:335:SER:OG	2.16	0.44
1:5:371:SER:HA	1:5:525:TRP:NE1	2.32	0.44
1:a:497:LEU:HD13	1:t:492:ARG:HG3	1.99	0.44
1:b:497:LEU:HD13	1:e:492:ARG:HG3	1.99	0.44
1:b:514:ASP:OD1	1:b:515:LYS:N	2.50	0.44
1:d:118:GLU:OE2	1:q:118:GLU:HG2	2.17	0.44
1:d:133:ASN:ND2	1:r:229:VAL:HG21	2.32	0.44
1:d:248:ASN:HB3	1:d:250:GLU:OE1	2.16	0.44
1:f:104:SER:HB3	1:f:412:ARG:HG2	1.98	0.44
1:g:183:TYR:CD2	1:m:221:MET:HE3	2.52	0.44
1:g:501:ILE:HD12	1:g:509:PRO:HA	1.99	0.44
1:h:63:PHE:CE2	1:h:472:VAL:HG13	2.52	0.44
1:h:138:GLN:NE2	1:h:464:LEU:HD11	2.31	0.44
1:h:169:ALA:HB2	1:h:191:TYR:CD1	2.51	0.44
1:k:133:ASN:ND2	1:s:229:VAL:HG21	2.33	0.44
1:l:390:THR:HG22	1:l:391:TYR:N	2.32	0.44
1:o:515:LYS:HB3	1:o:516:ASN:CB	2.47	0.44
1:s:371:SER:HA	1:s:525:TRP:NE1	2.31	0.44
1:v:501:ILE:HD12	1:v:509:PRO:HA	1.99	0.44
1:w:138:GLN:NE2	1:w:464:LEU:HD11	2.31	0.44
1:7:116:THR:HG21	1:7:494:HIS:CD2	2.51	0.44
1:A:515:LYS:HB3	1:A:516:ASN:CB	2.47	0.44
1:B:357:TYR:CE2	1:L:284:ARG:HB3	2.52	0.44
1:C:390:THR:HG22	1:C:391:TYR:N	2.32	0.44
1:C:514:ASP:OD1	1:C:515:LYS:N	2.50	0.44
1:D:284:ARG:HB3	1:N:357:TYR:CE2	2.52	0.44
1:F:221:MET:HE1	1:R:182:PRO:HD2	1.99	0.44
1:F:247:ILE:HG13	1:F:436:ILE:HD11	1.99	0.44
1:G:63:PHE:CE2	1:G:472:VAL:HG13	2.52	0.44
1:G:104:SER:HB3	1:G:412:ARG:HG2	1.98	0.44
1:G:138:GLN:NE2	1:G:464:LEU:HD11	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:357:TYR:CE2	1:Y:284:ARG:HB3	2.52	0.44
1:I:133:ASN:ND2	1:J:229:VAL:HG21	2.33	0.44
1:J:183:TYR:CD2	1:1:221:MET:HE3	2.52	0.44
1:J:390:THR:HG22	1:J:391:TYR:N	2.32	0.44
1:K:104:SER:HB3	1:K:412:ARG:HG2	1.98	0.44
1:K:248:ASN:HB3	1:K:250:GLU:OE1	2.16	0.44
1:L:133:ASN:ND2	1:2:229:VAL:HG21	2.33	0.44
1:L:248:ASN:HB3	1:L:250:GLU:OE1	2.16	0.44
1:M:63:PHE:CE2	1:M:472:VAL:HG13	2.52	0.44
1:O:183:TYR:CD2	1:P:221:MET:HE3	2.52	0.44
1:O:229:VAL:HG21	1:4:133:ASN:ND2	2.33	0.44
1:O:390:THR:HG22	1:O:391:TYR:N	2.32	0.44
1:P:390:THR:HG22	1:P:391:TYR:N	2.32	0.44
1:P:514:ASP:OD1	1:P:515:LYS:N	2.50	0.44
1:P:515:LYS:HB3	1:P:516:ASN:CB	2.47	0.44
1:S:138:GLN:NE2	1:S:464:LEU:HD11	2.31	0.44
1:S:284:ARG:HB3	1:U:357:TYR:CE2	2.52	0.44
1:U:497:LEU:HD13	1:V:492:ARG:HG3	1.99	0.44
1:V:104:SER:HB3	1:V:412:ARG:HG2	1.98	0.44
1:V:193:TYR:HH	1:V:220:PHE:H	1.65	0.44
1:W:390:THR:HG22	1:W:391:TYR:N	2.32	0.44
1:X:221:MET:HE1	1:6:182:PRO:HD2	1.99	0.44
1:X:357:TYR:CE2	1:5:284:ARG:HB3	2.52	0.44
1:Y:492:ARG:HG3	1:Z:497:LEU:HD13	1.99	0.44
1:Z:284:ARG:HB3	1:x:357:TYR:CE2	2.52	0.44
1:1:63:PHE:CE2	1:1:472:VAL:HG13	2.52	0.44
1:1:118:GLU:HG2	1:w:118:GLU:OE2	2.17	0.44
1:2:59:ASN:HB3	1:2:61:ARG:NH1	2.31	0.44
1:2:61:ARG:NH1	1:2:178:MET:HE2	2.32	0.44
1:2:113:GLN:OE1	1:3:490:PRO:HB3	2.16	0.44
1:2:247:ILE:HG13	1:2:436:ILE:HD11	1.99	0.44
1:5:182:PRO:HD2	1:b:221:MET:HE1	1.99	0.44
1:6:104:SER:HB3	1:6:412:ARG:HG2	1.98	0.44
1:6:138:GLN:NE2	1:6:464:LEU:HD11	2.31	0.44
1:a:275:ASN:CB	1:a:276:GLY:HA3	2.41	0.44
1:a:515:LYS:HB3	1:a:516:ASN:CB	2.47	0.44
1:b:107:PHE:C	1:b:412:ARG:HH12	2.19	0.44
1:b:347:PRO:HB2	1:b:352:TYR:HB2	1.98	0.44
1:c:514:ASP:OD1	1:c:515:LYS:N	2.50	0.44
1:d:86:LYS:HA	1:d:86:LYS:HD2	1.78	0.44
1:d:182:PRO:HD2	1:r:221:MET:HE1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:501:ILE:HD12	1:e:509:PRO:HA	1.99	0.44
1:h:61:ARG:NH1	1:h:178:MET:HE2	2.32	0.44
1:i:284:ARG:HB3	1:j:357:TYR:CE2	2.52	0.44
1:k:182:PRO:HD2	1:s:221:MET:HE1	1.99	0.44
1:k:490:PRO:HB3	1:r:113:GLN:OE1	2.16	0.44
1:m:410:VAL:HG12	1:m:411:THR:N	2.31	0.44
1:n:501:ILE:HD12	1:n:509:PRO:HA	1.99	0.44
1:o:514:ASP:OD1	1:o:515:LYS:N	2.50	0.44
1:p:347:PRO:HB2	1:p:352:TYR:HB2	1.98	0.44
1:p:514:ASP:OD1	1:p:515:LYS:N	2.50	0.44
1:q:514:ASP:OD1	1:q:515:LYS:N	2.50	0.44
1:r:59:ASN:HB3	1:r:61:ARG:NH1	2.31	0.44
1:r:61:ARG:NH1	1:r:178:MET:HE2	2.32	0.44
1:s:248:ASN:HB3	1:s:250:GLU:OE1	2.16	0.44
1:x:514:ASP:OD1	1:x:515:LYS:N	2.50	0.44
1:y:221:MET:HE3	1:8:183:TYR:CD2	2.52	0.44
1:y:390:THR:HG22	1:y:391:TYR:N	2.32	0.44
1:7:138:GLN:NE2	1:7:464:LEU:HD11	2.31	0.44
1:7:169:ALA:HB2	1:7:191:TYR:CD1	2.51	0.44
1:B:104:SER:HB3	1:B:412:ARG:HG2	1.98	0.44
1:B:118:GLU:HG2	1:I:118:GLU:OE2	2.17	0.44
1:B:501:ILE:HD12	1:B:509:PRO:HA	1.99	0.44
1:D:58:LYS:HG2	1:D:475:GLU:HG3	2.00	0.44
1:E:138:GLN:NE2	1:E:464:LEU:HD11	2.31	0.44
1:E:410:VAL:HG12	1:E:411:THR:N	2.32	0.44
1:F:58:LYS:HG2	1:F:475:GLU:HG3	2.00	0.44
1:H:221:MET:HE1	1:Z:182:PRO:HD2	1.99	0.44
1:J:347:PRO:HB2	1:J:352:TYR:HB2	1.98	0.44
1:J:371:SER:HA	1:J:525:TRP:NE1	2.31	0.44
1:K:221:MET:HE1	1:7:182:PRO:HD2	1.99	0.44
1:K:507:ILE:HG23	1:K:508:ASN:N	2.23	0.44
1:M:61:ARG:NH1	1:M:178:MET:HE2	2.32	0.44
1:M:104:SER:HB3	1:M:412:ARG:HG2	1.98	0.44
1:M:221:MET:HE1	1:3:182:PRO:HD2	1.99	0.44
1:O:61:ARG:NH1	1:O:178:MET:HE2	2.32	0.44
1:O:104:SER:HB3	1:O:412:ARG:HG2	1.98	0.44
1:Q:371:SER:HA	1:Q:525:TRP:NE1	2.32	0.44
1:Q:390:THR:HG22	1:Q:391:TYR:N	2.32	0.44
1:S:118:GLU:OE2	1:T:118:GLU:HG2	2.17	0.44
1:T:69:ASN:O	1:T:70:ASN:HB2	2.16	0.44
1:U:118:GLU:HG2	1:V:118:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:182:PRO:HD2	1:5:221:MET:HE1	1.99	0.44
1:X:41:THR:HG21	1:X:235:SER:CB	2.46	0.44
1:X:390:THR:HG22	1:X:391:TYR:N	2.32	0.44
1:Y:104:SER:HB3	1:Y:412:ARG:HG2	1.98	0.44
1:Y:118:GLU:OE2	1:Z:118:GLU:HG2	2.17	0.44
1:Y:247:ILE:HG13	1:Y:436:ILE:HD11	1.99	0.44
1:Z:357:TYR:CE2	1:w:284:ARG:HB3	2.52	0.44
1:1:107:PHE:C	1:1:412:ARG:HH12	2.19	0.44
1:4:61:ARG:NH1	1:4:178:MET:HE2	2.32	0.44
1:4:118:GLU:OE2	1:h:118:GLU:HG2	2.17	0.44
1:4:515:LYS:HB3	1:4:516:ASN:CB	2.47	0.44
1:5:347:PRO:HB2	1:5:352:TYR:HB2	1.98	0.44
1:6:63:PHE:CE2	1:6:472:VAL:HG13	2.52	0.44
1:a:514:ASP:OD1	1:a:515:LYS:N	2.50	0.44
1:b:390:THR:HG22	1:b:391:TYR:N	2.32	0.44
1:c:347:PRO:HB2	1:c:352:TYR:HB2	1.98	0.44
1:c:390:THR:HG22	1:c:391:TYR:N	2.32	0.44
1:d:104:SER:HB3	1:d:412:ARG:HG2	1.98	0.44
1:d:284:ARG:HB3	1:e:357:TYR:CE2	2.52	0.44
1:d:469:THR:HG21	1:r:453:PRO:HD2	1.98	0.44
1:f:515:LYS:HB3	1:f:516:ASN:CB	2.47	0.44
1:g:514:ASP:OD1	1:g:515:LYS:N	2.50	0.44
1:i:41:THR:HG21	1:i:235:SER:CB	2.46	0.44
1:j:61:ARG:NH1	1:j:178:MET:HE2	2.32	0.44
1:j:118:GLU:HG2	1:m:118:GLU:OE2	2.17	0.44
1:j:118:GLU:OE2	1:m:118:GLU:HG2	2.17	0.44
1:j:410:VAL:HG12	1:j:411:THR:N	2.31	0.44
1:j:497:LEU:HD13	1:m:492:ARG:HG3	2.00	0.44
1:j:514:ASP:OD1	1:j:515:LYS:N	2.50	0.44
1:l:284:ARG:HB3	1:m:357:TYR:CE2	2.53	0.44
1:m:501:ILE:HD12	1:m:509:PRO:HA	1.99	0.44
1:n:107:PHE:C	1:n:412:ARG:HH12	2.19	0.44
1:o:61:ARG:NH1	1:o:178:MET:HE2	2.32	0.44
1:p:501:ILE:HD12	1:p:509:PRO:HA	1.99	0.44
1:q:104:SER:HB3	1:q:412:ARG:HG2	1.98	0.44
1:q:390:THR:HG22	1:q:391:TYR:N	2.32	0.44
1:r:63:PHE:CE2	1:r:472:VAL:HG13	2.52	0.44
1:r:247:ILE:HG13	1:r:436:ILE:HD11	1.99	0.44
1:s:514:ASP:OD1	1:s:515:LYS:N	2.50	0.44
1:t:221:MET:HE1	1:x:182:PRO:HD2	1.99	0.44
1:u:138:GLN:NE2	1:u:464:LEU:HD11	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:371:SER:HA	1:u:525:TRP:NE1	2.32	0.44
1:u:410:VAL:HG12	1:u:411:THR:N	2.32	0.44
1:v:182:PRO:HD2	1:w:221:MET:HE1	1.99	0.44
1:v:371:SER:HA	1:v:525:TRP:NE1	2.32	0.44
1:y:63:PHE:CE2	1:y:472:VAL:HG13	2.52	0.44
1:z:59:ASN:HB3	1:z:61:ARG:NH1	2.31	0.44
1:z:501:ILE:HD12	1:z:509:PRO:HA	1.99	0.44
1:z:514:ASP:OD1	1:z:515:LYS:N	2.50	0.44
1:7:58:LYS:HG2	1:7:475:GLU:HG3	2.00	0.44
1:8:90:CYS:SG	1:8:91:VAL:N	2.79	0.44
1:8:515:LYS:HB3	1:8:516:ASN:CB	2.47	0.44
1:A:58:LYS:HG2	1:A:475:GLU:HG3	2.00	0.44
1:A:514:ASP:OD1	1:A:515:LYS:N	2.50	0.44
1:C:104:SER:HB3	1:C:412:ARG:HG2	1.98	0.44
1:D:492:ARG:HG3	1:M:497:LEU:HD13	1.99	0.44
1:E:514:ASP:OD1	1:E:515:LYS:N	2.50	0.44
1:F:469:THR:HG21	1:G:453:PRO:HD2	1.99	0.44
1:K:182:PRO:HD2	1:L:221:MET:HE1	1.99	0.44
1:M:58:LYS:HG2	1:M:475:GLU:HG3	2.00	0.44
1:M:514:ASP:OD1	1:M:515:LYS:N	2.50	0.44
1:O:63:PHE:CE2	1:O:472:VAL:HG13	2.52	0.44
1:O:357:TYR:CE2	1:h:284:ARG:HB3	2.52	0.44
1:O:410:VAL:HG12	1:O:411:THR:N	2.31	0.44
1:P:61:ARG:NH1	1:P:178:MET:HE2	2.32	0.44
1:Q:182:PRO:HD2	1:S:221:MET:HE1	1.99	0.44
1:R:284:ARG:HB3	1:S:357:TYR:CE2	2.52	0.44
1:R:514:ASP:OD1	1:R:515:LYS:N	2.50	0.44
1:T:221:MET:HE1	1:c:182:PRO:HD2	1.99	0.44
1:U:58:LYS:HG2	1:U:475:GLU:HG3	2.00	0.44
1:V:357:TYR:CE2	1:X:284:ARG:HB3	2.52	0.44
1:Y:61:ARG:NH1	1:Y:178:MET:HE2	2.32	0.44
1:1:104:SER:HB3	1:1:412:ARG:HG2	1.98	0.44
1:2:63:PHE:CE2	1:2:472:VAL:HG13	2.52	0.44
1:2:118:GLU:HG2	1:3:118:GLU:OE2	2.17	0.44
1:3:58:LYS:HG2	1:3:475:GLU:HG3	2.00	0.44
1:3:244:CYS:SG	1:3:245:GLU:N	2.79	0.44
1:a:58:LYS:HG2	1:a:475:GLU:HG3	2.00	0.44
1:c:371:SER:HA	1:c:525:TRP:NE1	2.31	0.44
1:e:514:ASP:OD1	1:e:515:LYS:N	2.50	0.44
1:g:61:ARG:NH1	1:g:178:MET:HE2	2.32	0.44
1:h:58:LYS:HG2	1:h:475:GLU:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:535:ILE:HG22	1:h:536:ASN:N	2.26	0.44
1:i:118:GLU:OE2	1:z:118:GLU:HG2	2.18	0.44
1:j:221:MET:HE3	1:z:183:TYR:CD2	2.52	0.44
1:j:492:ARG:HG3	1:m:497:LEU:HD13	2.00	0.44
1:k:58:LYS:HG2	1:k:475:GLU:HG3	2.00	0.44
1:k:118:GLU:OE2	1:r:118:GLU:HG2	2.17	0.44
1:k:244:CYS:SG	1:k:245:GLU:N	2.79	0.44
1:l:221:MET:HE1	1:r:182:PRO:HD2	1.99	0.44
1:m:61:ARG:NH1	1:m:178:MET:HE2	2.32	0.44
1:m:177:VAL:HG12	1:m:178:MET:H	1.80	0.44
1:m:514:ASP:OD1	1:m:515:LYS:N	2.50	0.44
1:n:133:ASN:ND2	1:z:229:VAL:HG21	2.33	0.44
1:o:118:GLU:HG2	1:u:118:GLU:OE2	2.17	0.44
1:o:275:ASN:CB	1:o:276:GLY:HA3	2.41	0.44
1:o:284:ARG:HB3	1:p:357:TYR:CE2	2.53	0.44
1:p:139:ILE:HD11	1:p:467:TYR:CD2	2.50	0.44
1:p:492:ARG:HG3	1:s:497:LEU:HD13	1.99	0.44
1:s:61:ARG:NH1	1:s:178:MET:HE2	2.32	0.44
1:t:247:ILE:HG13	1:t:436:ILE:HD11	1.99	0.44
1:t:284:ARG:HB3	1:u:357:TYR:CE2	2.52	0.44
1:u:514:ASP:OD1	1:u:515:LYS:N	2.50	0.44
1:v:118:GLU:OE2	1:x:118:GLU:HG2	2.17	0.44
1:y:229:VAL:HG21	1:8:133:ASN:ND2	2.33	0.44
1:z:61:ARG:NH1	1:z:178:MET:HE2	2.32	0.44
1:7:118:GLU:HG2	1:8:118:GLU:OE2	2.17	0.44
1:8:61:ARG:NH1	1:8:178:MET:HE2	2.32	0.44
1:A:61:ARG:NH1	1:A:178:MET:HE2	2.32	0.44
1:A:229:VAL:HG21	1:B:133:ASN:ND2	2.33	0.44
1:B:61:ARG:NH1	1:B:178:MET:HE2	2.32	0.44
1:B:514:ASP:OD1	1:B:515:LYS:N	2.50	0.44
1:E:284:ARG:HB3	1:Q:357:TYR:CE2	2.52	0.44
1:F:357:TYR:CE2	1:Q:284:ARG:HB3	2.52	0.44
1:H:182:PRO:HD2	1:I:221:MET:HE1	1.99	0.44
1:H:515:LYS:HB3	1:H:516:ASN:CB	2.47	0.44
1:I:86:LYS:HA	1:I:86:LYS:HD2	1.78	0.44
1:I:107:PHE:C	1:I:412:ARG:HH12	2.19	0.44
1:I:390:THR:HG22	1:I:391:TYR:N	2.32	0.44
1:J:182:PRO:HD2	1:1:221:MET:HE1	1.99	0.44
1:L:469:THR:HG21	1:2:453:PRO:HD2	1.98	0.44
1:N:133:ASN:ND2	1:g:229:VAL:HG21	2.33	0.44
1:O:221:MET:HE3	1:4:183:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:501:ILE:HD12	1:P:509:PRO:HA	1.99	0.44
1:P:507:ILE:HG23	1:P:508:ASN:N	2.23	0.44
1:Q:118:GLU:OE2	1:R:118:GLU:HG2	2.17	0.44
1:Q:133:ASN:ND2	1:S:229:VAL:HG21	2.32	0.44
1:U:492:ARG:HG3	1:V:497:LEU:HD13	2.00	0.44
1:V:61:ARG:NH1	1:V:178:MET:HE2	2.32	0.44
1:V:63:PHE:CE2	1:V:472:VAL:HG13	2.52	0.44
1:V:515:LYS:HB3	1:V:516:ASN:CB	2.47	0.44
1:X:347:PRO:HB2	1:X:352:TYR:HB2	1.98	0.44
1:Y:63:PHE:CE2	1:Y:472:VAL:HG13	2.52	0.44
1:Y:497:LEU:HD13	1:Z:492:ARG:HG3	2.00	0.44
1:Y:515:LYS:HB3	1:Y:516:ASN:CB	2.47	0.44
1:Z:58:LYS:HG2	1:Z:475:GLU:HG3	2.00	0.44
1:Z:221:MET:HE1	1:1:182:PRO:HD2	1.99	0.44
1:2:182:PRO:HD2	1:i:221:MET:HE1	1.99	0.44
1:3:104:SER:HB3	1:3:412:ARG:HG2	1.98	0.44
1:3:357:TYR:CE2	1:j:284:ARG:HB3	2.52	0.44
1:5:118:GLU:HG2	1:6:118:GLU:OE2	2.18	0.44
1:a:221:MET:HE3	1:e:183:TYR:CD2	2.52	0.44
1:a:229:VAL:HG21	1:e:133:ASN:ND2	2.33	0.44
1:a:357:TYR:CE2	1:b:284:ARG:HB3	2.52	0.44
1:b:118:GLU:OE2	1:e:118:GLU:HG2	2.18	0.44
1:b:139:ILE:HD11	1:b:467:TYR:CD2	2.50	0.44
1:c:118:GLU:HG2	1:f:118:GLU:OE2	2.17	0.44
1:c:366:ASP:HA	1:c:367:GLY:HA2	1.77	0.44
1:d:61:ARG:NH1	1:d:178:MET:HE2	2.32	0.44
1:d:221:MET:HE1	1:f:182:PRO:HD2	1.99	0.44
1:e:61:ARG:NH1	1:e:178:MET:HE2	2.32	0.44
1:e:104:SER:HB3	1:e:412:ARG:HG2	1.98	0.44
1:f:507:ILE:HG23	1:f:508:ASN:N	2.23	0.44
1:g:59:ASN:HB3	1:g:61:ARG:NH1	2.31	0.44
1:g:118:GLU:HG2	1:l:118:GLU:OE2	2.18	0.44
1:g:390:THR:HG22	1:g:391:TYR:N	2.32	0.44
1:j:104:SER:HB3	1:j:412:ARG:HG2	1.98	0.44
1:j:501:ILE:HD12	1:j:509:PRO:HA	1.99	0.44
1:m:104:SER:HB3	1:m:412:ARG:HG2	1.98	0.44
1:n:118:GLU:HG2	1:y:118:GLU:OE2	2.17	0.44
1:p:58:LYS:HG2	1:p:475:GLU:HG3	2.00	0.44
1:p:118:GLU:OE2	1:s:118:GLU:HG2	2.17	0.44
1:s:58:LYS:HG2	1:s:475:GLU:HG3	2.00	0.44
1:s:104:SER:HB3	1:s:412:ARG:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:58:LYS:HG2	1:t:475:GLU:HG3	2.00	0.44
1:v:118:GLU:HG2	1:x:118:GLU:OE2	2.17	0.44
1:v:133:ASN:ND2	1:w:229:VAL:HG21	2.33	0.44
1:v:390:THR:HG22	1:v:391:TYR:N	2.32	0.44
1:w:357:TYR:CE2	1:x:284:ARG:HB3	2.52	0.44
1:y:410:VAL:HG12	1:y:411:THR:N	2.31	0.44
1:y:507:ILE:HG23	1:y:508:ASN:N	2.23	0.44
1:z:390:THR:HG22	1:z:391:TYR:N	2.32	0.44
1:7:61:ARG:NH1	1:7:178:MET:HE2	2.32	0.44
1:A:453:PRO:HD2	1:B:469:THR:HG21	1.99	0.44
1:B:410:VAL:HG12	1:B:411:THR:N	2.31	0.44
1:C:118:GLU:OE2	1:L:118:GLU:HG2	2.17	0.44
1:D:139:ILE:HD11	1:D:467:TYR:CD2	2.50	0.44
1:J:118:GLU:HG2	1:K:118:GLU:OE2	2.17	0.44
1:J:497:LEU:HD13	1:K:492:ARG:HG3	1.99	0.44
1:K:357:TYR:CE2	1:8:284:ARG:HB3	2.52	0.44
1:K:515:LYS:HB3	1:K:516:ASN:CB	2.47	0.44
1:L:61:ARG:NH1	1:L:178:MET:HE2	2.32	0.44
1:L:501:ILE:HD12	1:L:509:PRO:HA	1.99	0.44
1:O:138:GLN:NE2	1:O:464:LEU:HD11	2.31	0.44
1:P:182:PRO:HD2	1:Q:221:MET:HE1	1.99	0.44
1:Q:357:TYR:C	1:Q:359:THR:H	2.24	0.44
1:R:63:PHE:CE2	1:R:472:VAL:HG13	2.52	0.44
1:R:501:ILE:HD12	1:R:509:PRO:HA	1.99	0.44
1:S:492:ARG:HG3	1:T:497:LEU:HD13	2.00	0.44
1:T:104:SER:HB3	1:T:412:ARG:HG2	1.98	0.44
1:T:182:PRO:HD2	1:U:221:MET:HE1	1.99	0.44
1:W:41:THR:HG21	1:W:235:SER:CB	2.46	0.44
1:W:284:ARG:HB3	1:Y:357:TYR:CE2	2.52	0.44
1:W:347:PRO:HB2	1:W:352:TYR:HB2	1.98	0.44
1:Y:317:MET:HB3	1:Y:335:SER:OG	2.16	0.44
1:1:284:ARG:HB3	1:8:357:TYR:CE2	2.52	0.44
1:1:497:LEU:HD13	1:w:492:ARG:HG3	2.00	0.44
1:2:492:ARG:HG3	1:3:497:LEU:HD13	2.00	0.44
1:3:229:VAL:HG21	1:m:133:ASN:ND2	2.33	0.44
1:3:247:ILE:HG13	1:3:436:ILE:HD11	1.99	0.44
1:6:229:VAL:HG21	1:t:133:ASN:ND2	2.33	0.44
1:a:61:ARG:NH1	1:a:178:MET:HE2	2.32	0.44
1:d:58:LYS:HG2	1:d:475:GLU:HG3	2.00	0.44
1:d:501:ILE:HD12	1:d:509:PRO:HA	1.99	0.44
1:e:229:VAL:HG21	1:q:133:ASN:ND2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:139:ILE:HD11	1:f:467:TYR:CD2	2.50	0.44
1:h:221:MET:HE3	1:l:183:TYR:CD2	2.52	0.44
1:j:133:ASN:ND2	1:k:229:VAL:HG21	2.33	0.44
1:k:104:SER:HB3	1:k:412:ARG:HG2	1.98	0.44
1:k:357:TYR:CE2	1:m:284:ARG:HB3	2.52	0.44
1:k:497:LEU:HD13	1:r:492:ARG:HG3	2.00	0.44
1:n:221:MET:HE1	1:s:182:PRO:HD2	1.99	0.44
1:n:514:ASP:OD1	1:n:515:LYS:N	2.50	0.44
1:o:501:ILE:HD12	1:o:509:PRO:HA	1.99	0.44
1:r:104:SER:HB3	1:r:412:ARG:HG2	1.98	0.44
1:r:347:PRO:HB2	1:r:352:TYR:HB2	1.98	0.44
1:t:61:ARG:NH1	1:t:178:MET:HE2	2.32	0.44
1:t:357:TYR:CE2	1:v:284:ARG:HB3	2.52	0.44
1:u:284:ARG:HB3	1:v:357:TYR:CE2	2.52	0.44
1:w:247:ILE:HG13	1:w:436:ILE:HD11	1.99	0.44
1:x:63:PHE:CE2	1:x:472:VAL:HG13	2.52	0.44
1:y:104:SER:HB3	1:y:412:ARG:HG2	1.98	0.44
1:y:138:GLN:NE2	1:y:464:LEU:HD11	2.31	0.44
1:7:347:PRO:HB2	1:7:352:TYR:HB2	1.98	0.44
1:B:229:VAL:HG21	1:C:133:ASN:ND2	2.33	0.44
1:D:118:GLU:OE2	1:M:118:GLU:HG2	2.17	0.44
1:F:61:ARG:NH1	1:F:178:MET:HE2	2.32	0.44
1:H:58:LYS:HG2	1:H:475:GLU:HG3	2.00	0.44
1:H:63:PHE:CE2	1:H:472:VAL:HG13	2.52	0.44
1:I:182:PRO:HD2	1:J:221:MET:HE1	1.99	0.44
1:J:104:SER:HB3	1:J:412:ARG:HG2	1.98	0.44
1:K:139:ILE:HD11	1:K:467:TYR:CD2	2.50	0.44
1:K:390:THR:HG22	1:K:391:TYR:N	2.32	0.44
1:L:58:LYS:HG2	1:L:475:GLU:HG3	2.00	0.44
1:L:63:PHE:CE2	1:L:472:VAL:HG13	2.52	0.44
1:M:182:PRO:HD2	1:N:221:MET:HE1	1.99	0.44
1:N:492:ARG:HG3	1:O:497:LEU:HD13	1.99	0.44
1:N:514:ASP:OD1	1:N:515:LYS:N	2.50	0.44
1:P:275:ASN:CB	1:P:276:GLY:HA3	2.41	0.44
1:Q:118:GLU:HG2	1:R:118:GLU:OE2	2.17	0.44
1:S:86:LYS:HA	1:S:86:LYS:HD2	1.78	0.44
1:S:247:ILE:HG13	1:S:436:ILE:HD11	1.99	0.44
1:T:58:LYS:HG2	1:T:475:GLU:HG3	2.00	0.44
1:T:107:PHE:C	1:T:412:ARG:HH12	2.19	0.44
1:U:104:SER:HB3	1:U:412:ARG:HG2	1.98	0.44
1:V:317:MET:HB3	1:V:335:SER:OG	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:275:ASN:CB	1:W:276:GLY:HA3	2.41	0.44
1:Y:118:GLU:HG2	1:Z:118:GLU:OE2	2.17	0.44
1:Z:104:SER:HB3	1:Z:412:ARG:HG2	1.98	0.44
1:2:104:SER:HB3	1:2:412:ARG:HG2	1.98	0.44
1:2:390:THR:HG22	1:2:391:TYR:N	2.32	0.44
1:2:515:LYS:HB3	1:2:516:ASN:CB	2.47	0.44
1:4:284:ARG:HB3	1:f:357:TYR:CE2	2.52	0.44
1:5:58:LYS:HG2	1:5:475:GLU:HG3	2.00	0.44
1:5:118:GLU:OE2	1:6:118:GLU:HG2	2.17	0.44
1:5:139:ILE:HD11	1:5:467:TYR:CD2	2.50	0.44
1:c:515:LYS:HB3	1:c:516:ASN:CB	2.47	0.44
1:d:270:GLN:OE1	1:e:313:THR:OG1	2.36	0.44
1:e:410:VAL:HG12	1:e:411:THR:N	2.31	0.44
1:h:221:MET:HE1	1:l:182:PRO:HD2	1.99	0.44
1:h:229:VAL:HG21	1:l:133:ASN:ND2	2.33	0.44
1:h:347:PRO:HB2	1:h:352:TYR:HB2	1.98	0.44
1:i:492:ARG:HG3	1:z:497:LEU:HD13	1.99	0.44
1:i:501:ILE:HD12	1:i:509:PRO:HA	1.99	0.44
1:j:182:PRO:HD2	1:k:221:MET:HE1	1.99	0.44
1:j:390:THR:HG22	1:j:391:TYR:N	2.32	0.44
1:o:182:PRO:HD2	1:v:221:MET:HE1	1.99	0.44
1:r:515:LYS:HB3	1:r:516:ASN:CB	2.47	0.44
1:u:58:LYS:HG2	1:u:475:GLU:HG3	2.00	0.44
1:v:357:TYR:C	1:v:359:THR:H	2.24	0.44
1:w:61:ARG:NH1	1:w:178:MET:HE2	2.32	0.44
1:7:118:GLU:OE2	1:8:118:GLU:HG2	2.17	0.44
1:B:313:THR:OG1	1:L:270:GLN:OE1	2.36	0.44
1:D:61:ARG:NH1	1:D:178:MET:HE2	2.32	0.44
1:E:118:GLU:OE2	1:P:118:GLU:HG2	2.17	0.44
1:E:390:THR:HG22	1:E:391:TYR:N	2.32	0.44
1:I:139:ILE:HD11	1:I:467:TYR:CD2	2.50	0.44
1:J:515:LYS:HB3	1:J:516:ASN:CB	2.47	0.44
1:N:284:ARG:HB3	1:P:357:TYR:CE2	2.52	0.44
1:O:182:PRO:HD2	1:P:221:MET:HE1	1.99	0.44
1:R:247:ILE:HG13	1:R:436:ILE:HD11	1.99	0.44
1:S:61:ARG:NH1	1:S:178:MET:HE2	2.32	0.44
1:T:284:ARG:HB3	1:4:357:TYR:CE2	2.52	0.44
1:U:118:GLU:OE2	1:V:118:GLU:HG2	2.17	0.44
1:W:87:SER:HB2	1:W:198:HIS:HB3	2.00	0.44
1:X:87:SER:HB2	1:X:198:HIS:HB3	2.00	0.44
1:Z:275:ASN:CB	1:Z:276:GLY:HA3	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:326:ASN:O	1:Z:327:ILE:HG12	2.18	0.44
1:1:58:LYS:HG2	1:1:475:GLU:HG3	2.00	0.44
1:2:183:TYR:CD2	1:i:221:MET:HE3	2.52	0.44
1:2:347:PRO:HB2	1:2:352:TYR:HB2	1.98	0.44
1:3:221:MET:HE1	1:m:182:PRO:HD2	1.99	0.44
1:3:284:ARG:HB3	1:i:357:TYR:CE2	2.52	0.44
1:4:63:PHE:CE2	1:4:472:VAL:HG13	2.52	0.44
1:4:87:SER:HB2	1:4:198:HIS:HB3	2.00	0.44
1:5:63:PHE:CE2	1:5:472:VAL:HG13	2.52	0.44
1:5:133:ASN:ND2	1:b:229:VAL:HG21	2.33	0.44
1:6:221:MET:HE1	1:t:182:PRO:HD2	1.99	0.44
1:a:118:GLU:HG2	1:t:118:GLU:OE2	2.18	0.44
1:a:182:PRO:HD2	1:u:221:MET:HE1	1.99	0.44
1:b:86:LYS:HD2	1:b:86:LYS:HA	1.78	0.44
1:b:133:ASN:ND2	1:c:229:VAL:HG21	2.33	0.44
1:c:104:SER:HB3	1:c:412:ARG:HG2	1.98	0.44
1:c:492:ARG:HG3	1:f:497:LEU:HD13	1.99	0.44
1:c:497:LEU:HD13	1:f:492:ARG:HG3	1.99	0.44
1:d:63:PHE:CE2	1:d:472:VAL:HG13	2.52	0.44
1:d:118:GLU:HG2	1:q:118:GLU:OE2	2.17	0.44
1:d:514:ASP:OD1	1:d:515:LYS:N	2.50	0.44
1:d:515:LYS:HB3	1:d:516:ASN:CB	2.47	0.44
1:i:133:ASN:ND2	1:7:229:VAL:HG21	2.33	0.44
1:i:183:TYR:CD2	1:7:221:MET:HE3	2.52	0.44
1:k:247:ILE:HG13	1:k:436:ILE:HD11	1.99	0.44
1:l:501:ILE:HD12	1:l:509:PRO:HA	1.99	0.44
1:n:492:ARG:HG3	1:y:497:LEU:HD13	1.99	0.44
1:r:390:THR:HG22	1:r:391:TYR:N	2.32	0.44
1:w:86:LYS:HA	1:w:86:LYS:HD2	1.78	0.44
1:x:247:ILE:HG13	1:x:436:ILE:HD11	1.99	0.44
1:x:501:ILE:HD12	1:x:509:PRO:HA	1.99	0.44
1:8:87:SER:HB2	1:8:198:HIS:HB3	2.00	0.44
1:A:182:PRO:HD2	1:E:221:MET:HE1	1.99	0.44
1:B:221:MET:HE1	1:C:182:PRO:HD2	1.99	0.44
1:E:58:LYS:HG2	1:E:475:GLU:HG3	2.00	0.44
1:E:492:ARG:HG3	1:P:497:LEU:HD13	2.00	0.44
1:H:139:ILE:HD11	1:H:467:TYR:CD2	2.50	0.44
1:H:229:VAL:HG21	1:Z:133:ASN:ND2	2.33	0.44
1:I:58:LYS:HG2	1:I:475:GLU:HG3	2.00	0.44
1:J:133:ASN:ND2	1:1:229:VAL:HG21	2.33	0.44
1:L:514:ASP:OD1	1:L:515:LYS:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:507:ILE:HG23	1:O:508:ASN:N	2.23	0.44
1:T:87:SER:HB2	1:T:198:HIS:HB3	2.00	0.44
1:T:229:VAL:HG21	1:c:133:ASN:ND2	2.33	0.44
1:Z:514:ASP:OD1	1:Z:515:LYS:N	2.50	0.44
1:1:87:SER:HB2	1:1:198:HIS:HB3	2.00	0.44
1:3:41:THR:HG21	1:3:235:SER:CB	2.46	0.44
1:6:284:ARG:HB3	1:b:357:TYR:CE2	2.52	0.44
1:b:58:LYS:HG2	1:b:475:GLU:HG3	2.00	0.44
1:b:63:PHE:CE2	1:b:472:VAL:HG13	2.52	0.44
1:e:221:MET:HE1	1:q:182:PRO:HD2	1.99	0.44
1:f:390:THR:HG22	1:f:391:TYR:N	2.32	0.44
1:g:118:GLU:OE2	1:l:118:GLU:HG2	2.18	0.44
1:g:497:LEU:HD13	1:l:492:ARG:HG3	1.99	0.44
1:i:118:GLU:HG2	1:z:118:GLU:OE2	2.18	0.44
1:k:284:ARG:HB3	1:l:357:TYR:CE2	2.52	0.44
1:l:221:MET:HE3	1:r:183:TYR:CD2	2.52	0.44
1:m:390:THR:HG22	1:m:391:TYR:N	2.32	0.44
1:n:284:ARG:HB3	1:o:357:TYR:CE2	2.52	0.44
1:o:507:ILE:HG23	1:o:508:ASN:N	2.23	0.44
1:w:182:PRO:HD2	1:8:221:MET:HE1	1.99	0.44
1:A:118:GLU:HG2	1:F:118:GLU:OE2	2.18	0.43
1:A:357:TYR:CE2	1:I:284:ARG:HB3	2.53	0.43
1:C:221:MET:HE1	1:D:182:PRO:HD2	1.99	0.43
1:C:270:GLN:OE1	1:2:313:THR:OG1	2.36	0.43
1:C:326:ASN:O	1:C:327:ILE:HG12	2.18	0.43
1:E:107:PHE:C	1:E:412:ARG:HH12	2.19	0.43
1:G:58:LYS:HG2	1:G:475:GLU:HG3	2.00	0.43
1:I:63:PHE:CE2	1:I:472:VAL:HG13	2.52	0.43
1:I:501:ILE:HD12	1:I:509:PRO:HA	1.99	0.43
1:L:515:LYS:HB3	1:L:516:ASN:CB	2.47	0.43
1:M:133:ASN:ND2	1:N:229:VAL:HG21	2.33	0.43
1:M:317:MET:HB3	1:M:335:SER:OG	2.16	0.43
1:O:87:SER:HB2	1:O:198:HIS:HB3	2.00	0.43
1:O:262:PRO:HG2	1:g:90:CYS:HB2	2.01	0.43
1:O:284:ARG:HB3	1:g:357:TYR:CE2	2.53	0.43
1:R:313:THR:OG1	1:U:270:GLN:OE1	2.36	0.43
1:R:326:ASN:O	1:R:327:ILE:HG12	2.18	0.43
1:S:182:PRO:HD2	1:4:221:MET:HE1	1.99	0.43
1:U:133:ASN:ND2	1:5:229:VAL:HG21	2.33	0.43
1:U:326:ASN:O	1:U:327:ILE:HG12	2.18	0.43
1:V:229:VAL:HG21	1:W:133:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:133:ASN:ND2	1:Y:229:VAL:HG21	2.33	0.43
1:X:275:ASN:CB	1:X:276:GLY:HA3	2.41	0.43
1:Z:270:GLN:OE1	1:x:313:THR:OG1	2.36	0.43
1:4:104:SER:HB3	1:4:412:ARG:HG2	1.98	0.43
1:4:118:GLU:HG2	1:h:118:GLU:OE2	2.18	0.43
1:6:58:LYS:HG2	1:6:475:GLU:HG3	2.00	0.43
1:6:501:ILE:HD12	1:6:509:PRO:HA	1.99	0.43
1:b:182:PRO:HD2	1:c:221:MET:HE1	1.99	0.43
1:b:501:ILE:HD12	1:b:509:PRO:HA	1.99	0.43
1:g:133:ASN:ND2	1:m:229:VAL:HG21	2.33	0.43
1:i:182:PRO:HD2	1:7:221:MET:HE1	1.99	0.43
1:k:515:LYS:HB3	1:k:516:ASN:CB	2.47	0.43
1:l:107:PHE:C	1:l:412:ARG:HH12	2.19	0.43
1:m:87:SER:HB2	1:m:198:HIS:HB3	2.00	0.43
1:o:221:MET:HE1	1:y:182:PRO:HD2	2.00	0.43
1:o:497:LEU:HD13	1:u:492:ARG:HG3	2.00	0.43
1:p:61:ARG:NH1	1:p:178:MET:HE2	2.32	0.43
1:p:118:GLU:HG2	1:s:118:GLU:OE2	2.17	0.43
1:q:326:ASN:O	1:q:327:ILE:HG12	2.18	0.43
1:t:87:SER:HB2	1:t:198:HIS:HB3	2.00	0.43
1:u:390:THR:HG22	1:u:391:TYR:N	2.32	0.43
1:x:41:THR:HG21	1:x:235:SER:CB	2.46	0.43
1:x:390:THR:HG22	1:x:391:TYR:N	2.32	0.43
1:y:270:GLN:OE1	1:z:313:THR:OG1	2.36	0.43
1:y:341:PRO:HG2	1:y:352:TYR:HD1	1.84	0.43
1:z:326:ASN:O	1:z:327:ILE:HG12	2.18	0.43
1:7:87:SER:HB2	1:7:198:HIS:HB3	2.00	0.43
1:A:270:GLN:OE1	1:G:313:THR:OG1	2.37	0.43
1:C:58:LYS:HG2	1:C:475:GLU:HG3	2.00	0.43
1:C:501:ILE:HD12	1:C:509:PRO:HA	1.99	0.43
1:D:118:GLU:HG2	1:M:118:GLU:OE2	2.17	0.43
1:D:221:MET:HE1	1:E:182:PRO:HD2	1.99	0.43
1:E:357:TYR:CE2	1:F:284:ARG:HB3	2.53	0.43
1:H:133:ASN:ND2	1:I:229:VAL:HG21	2.33	0.43
1:H:313:THR:OG1	1:Y:270:GLN:OE1	2.36	0.43
1:J:270:GLN:OE1	1:L:313:THR:OG1	2.36	0.43
1:J:492:ARG:HG3	1:K:497:LEU:HD13	2.00	0.43
1:N:87:SER:HB2	1:N:198:HIS:HB3	2.00	0.43
1:O:515:LYS:HB3	1:O:516:ASN:CB	2.47	0.43
1:S:104:SER:HB3	1:S:412:ARG:HG2	1.98	0.43
1:S:497:LEU:HD13	1:T:492:ARG:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:140:LEU:HB2	1:T:147:THR:HB	2.01	0.43
1:U:514:ASP:OD1	1:U:515:LYS:N	2.50	0.43
1:V:221:MET:HE1	1:W:182:PRO:HD2	1.99	0.43
1:X:182:PRO:HD2	1:Y:221:MET:HE1	1.99	0.43
1:X:229:VAL:HG21	1:6:133:ASN:ND2	2.33	0.43
1:1:492:ARG:HG3	1:w:497:LEU:HD13	1.99	0.43
1:3:515:LYS:HB3	1:3:516:ASN:CB	2.47	0.43
1:b:507:ILE:HG23	1:b:508:ASN:N	2.23	0.43
1:c:270:GLN:OE1	1:d:313:THR:OG1	2.36	0.43
1:e:341:PRO:HG2	1:e:352:TYR:HD1	1.84	0.43
1:g:326:ASN:O	1:g:327:ILE:HG12	2.18	0.43
1:h:87:SER:HB2	1:h:198:HIS:HB3	2.00	0.43
1:i:86:LYS:HA	1:i:86:LYS:HD2	1.78	0.43
1:j:87:SER:HB2	1:j:198:HIS:HB3	2.00	0.43
1:n:87:SER:HB2	1:n:198:HIS:HB3	2.00	0.43
1:n:229:VAL:HG21	1:s:133:ASN:ND2	2.33	0.43
1:p:182:PRO:HD2	1:q:221:MET:HE1	1.99	0.43
1:p:221:MET:HE1	1:u:182:PRO:HD2	1.99	0.43
1:q:270:GLN:OE1	1:r:313:THR:OG1	2.36	0.43
1:q:501:ILE:HD12	1:q:509:PRO:HA	1.99	0.43
1:u:515:LYS:HB3	1:u:516:ASN:CB	2.47	0.43
1:w:133:ASN:ND2	1:8:229:VAL:HG21	2.33	0.43
1:w:514:ASP:OD1	1:w:515:LYS:N	2.50	0.43
1:y:87:SER:HB2	1:y:198:HIS:HB3	2.00	0.43
1:y:229:VAL:HG21	1:8:133:ASN:HD21	1.83	0.43
1:y:515:LYS:HB3	1:y:516:ASN:CB	2.47	0.43
1:8:63:PHE:CE2	1:8:472:VAL:HG13	2.52	0.43
1:8:104:SER:HB3	1:8:412:ARG:HG2	1.98	0.43
1:B:107:PHE:C	1:B:412:ARG:HH12	2.19	0.43
1:B:270:GLN:OE1	1:J:313:THR:OG1	2.37	0.43
1:B:341:PRO:HG2	1:B:352:TYR:HD1	1.84	0.43
1:E:270:GLN:OE1	1:Q:313:THR:OG1	2.36	0.43
1:E:515:LYS:HB3	1:E:516:ASN:CB	2.47	0.43
1:F:87:SER:HB2	1:F:198:HIS:HB3	2.00	0.43
1:F:313:THR:OG1	1:Q:270:GLN:OE1	2.36	0.43
1:G:61:ARG:NH1	1:G:178:MET:HE2	2.32	0.43
1:G:501:ILE:HD12	1:G:509:PRO:HA	1.99	0.43
1:J:341:PRO:HG2	1:J:352:TYR:HD1	1.84	0.43
1:N:515:LYS:HB3	1:N:516:ASN:CB	2.47	0.43
1:O:86:LYS:HD2	1:O:86:LYS:HA	1.78	0.43
1:O:349:ASP:HB3	1:O:352:TYR:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:341:PRO:HG2	1:R:352:TYR:HD1	1.84	0.43
1:R:390:THR:HG22	1:R:391:TYR:N	2.32	0.43
1:S:118:GLU:HG2	1:T:118:GLU:OE2	2.17	0.43
1:S:133:ASN:ND2	1:4:229:VAL:HG21	2.33	0.43
1:V:341:PRO:HG2	1:V:352:TYR:HD1	1.84	0.43
1:X:58:LYS:HG2	1:X:475:GLU:HG3	2.00	0.43
1:Y:341:PRO:HG2	1:Y:352:TYR:HD1	1.84	0.43
1:Z:515:LYS:HB3	1:Z:516:ASN:CB	2.47	0.43
1:1:140:LEU:HB2	1:1:147:THR:HB	2.01	0.43
1:1:247:ILE:HG13	1:1:436:ILE:HD11	1.98	0.43
1:3:229:VAL:HG21	1:m:133:ASN:HD21	1.84	0.43
1:3:313:THR:OG1	1:j:270:GLN:OE1	2.36	0.43
1:6:341:PRO:HG2	1:6:352:TYR:HD1	1.84	0.43
1:6:357:TYR:CE2	1:a:284:ARG:HB3	2.53	0.43
1:c:313:THR:OG1	1:e:270:GLN:OE1	2.37	0.43
1:c:341:PRO:HG2	1:c:352:TYR:HD1	1.84	0.43
1:h:326:ASN:O	1:h:327:ILE:HG12	2.18	0.43
1:i:140:LEU:HB2	1:i:147:THR:HB	2.01	0.43
1:i:270:GLN:OE1	1:j:313:THR:OG1	2.37	0.43
1:i:326:ASN:O	1:i:327:ILE:HG12	2.18	0.43
1:j:229:VAL:HG21	1:z:133:ASN:ND2	2.33	0.43
1:k:41:THR:HG21	1:k:235:SER:CB	2.46	0.43
1:k:313:THR:OG1	1:m:270:GLN:OE1	2.36	0.43
1:l:270:GLN:OE1	1:m:313:THR:OG1	2.37	0.43
1:l:326:ASN:O	1:l:327:ILE:HG12	2.18	0.43
1:p:390:THR:HG22	1:p:391:TYR:N	2.32	0.43
1:p:497:LEU:HD13	1:s:492:ARG:HG3	2.00	0.43
1:q:58:LYS:HG2	1:q:475:GLU:HG3	2.00	0.43
1:q:90:CYS:SG	1:q:91:VAL:N	2.79	0.43
1:q:313:THR:OG1	1:s:270:GLN:OE1	2.36	0.43
1:s:317:MET:HB3	1:s:335:SER:OG	2.16	0.43
1:t:326:ASN:O	1:t:327:ILE:HG12	2.18	0.43
1:u:107:PHE:C	1:u:412:ARG:HH12	2.19	0.43
1:u:270:GLN:OE1	1:v:313:THR:OG1	2.36	0.43
1:v:497:LEU:HD13	1:x:492:ARG:HG3	2.00	0.43
1:w:87:SER:HB2	1:w:198:HIS:HB3	2.00	0.43
1:w:104:SER:HB3	1:w:412:ARG:HG2	1.98	0.43
1:x:326:ASN:O	1:x:327:ILE:HG12	2.18	0.43
1:x:341:PRO:HG2	1:x:352:TYR:HD1	1.84	0.43
1:y:349:ASP:HB3	1:y:352:TYR:CD2	2.54	0.43
1:z:58:LYS:HG2	1:z:475:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:326:ASN:O	1:7:327:ILE:HG12	2.18	0.43
1:A:133:ASN:ND2	1:E:229:VAL:HG21	2.34	0.43
1:B:58:LYS:HG2	1:B:475:GLU:HG3	2.00	0.43
1:B:118:GLU:OE2	1:I:118:GLU:HG2	2.17	0.43
1:C:313:THR:OG1	1:M:270:GLN:OE1	2.36	0.43
1:D:390:THR:HG22	1:D:391:TYR:N	2.32	0.43
1:F:326:ASN:O	1:F:327:ILE:HG12	2.18	0.43
1:G:341:PRO:HG2	1:G:352:TYR:HD1	1.84	0.43
1:H:229:VAL:HG21	1:Z:133:ASN:HD21	1.84	0.43
1:H:501:ILE:HD12	1:H:509:PRO:HA	1.99	0.43
1:I:133:ASN:HD21	1:J:229:VAL:HG21	1.84	0.43
1:I:140:LEU:HB2	1:I:147:THR:HB	2.01	0.43
1:J:326:ASN:O	1:J:327:ILE:HG12	2.18	0.43
1:J:349:ASP:HB3	1:J:352:TYR:CD2	2.54	0.43
1:L:87:SER:HB2	1:L:198:HIS:HB3	2.00	0.43
1:M:326:ASN:O	1:M:327:ILE:HG12	2.18	0.43
1:N:118:GLU:HG2	1:O:118:GLU:OE2	2.18	0.43
1:N:140:LEU:HB2	1:N:147:THR:HB	2.01	0.43
1:O:140:LEU:HB2	1:O:147:THR:HB	2.01	0.43
1:O:341:PRO:HG2	1:O:352:TYR:HD1	1.84	0.43
1:P:58:LYS:HG2	1:P:475:GLU:HG3	2.00	0.43
1:Q:497:LEU:HD13	1:R:492:ARG:HG3	2.00	0.43
1:R:41:THR:HG21	1:R:235:SER:CB	2.46	0.43
1:R:270:GLN:OE1	1:S:313:THR:OG1	2.36	0.43
1:S:349:ASP:HB3	1:S:352:TYR:CD2	2.54	0.43
1:S:515:LYS:HB3	1:S:516:ASN:CB	2.47	0.43
1:U:133:ASN:HD21	1:5:229:VAL:HG21	1.84	0.43
1:U:275:ASN:CB	1:U:276:GLY:HA3	2.41	0.43
1:U:349:ASP:HB3	1:U:352:TYR:CD2	2.54	0.43
1:U:515:LYS:HB3	1:U:516:ASN:CB	2.47	0.43
1:W:58:LYS:HG2	1:W:475:GLU:HG3	2.00	0.43
1:Z:349:ASP:HB3	1:Z:352:TYR:CD2	2.54	0.43
1:1:118:GLU:OE2	1:w:118:GLU:HG2	2.17	0.43
1:1:349:ASP:HB3	1:1:352:TYR:CD2	2.54	0.43
1:2:118:GLU:OE2	1:3:118:GLU:HG2	2.18	0.43
1:4:86:LYS:HD2	1:4:86:LYS:HA	1.78	0.43
1:6:270:GLN:OE1	1:b:313:THR:OG1	2.36	0.43
1:6:349:ASP:HB3	1:6:352:TYR:CD2	2.54	0.43
1:a:221:MET:HE1	1:e:182:PRO:HD2	1.99	0.43
1:a:313:THR:OG1	1:b:270:GLN:OE1	2.37	0.43
1:b:140:LEU:HB2	1:b:147:THR:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:326:ASN:O	1:c:327:ILE:HG12	2.18	0.43
1:c:357:TYR:CE2	1:e:284:ARG:HB3	2.52	0.43
1:e:41:THR:HG21	1:e:235:SER:CB	2.46	0.43
1:e:515:LYS:HB3	1:e:516:ASN:CB	2.47	0.43
1:f:229:VAL:HG21	1:h:133:ASN:ND2	2.33	0.43
1:g:58:LYS:HG2	1:g:475:GLU:HG3	2.00	0.43
1:i:107:PHE:C	1:i:412:ARG:HH12	2.19	0.43
1:j:133:ASN:HD21	1:k:229:VAL:HG21	1.84	0.43
1:k:326:ASN:O	1:k:327:ILE:HG12	2.18	0.43
1:l:140:LEU:HB2	1:l:147:THR:HB	2.01	0.43
1:l:262:PRO:HG2	1:m:90:CYS:HB2	2.01	0.43
1:n:58:LYS:HG2	1:n:475:GLU:HG3	2.00	0.43
1:n:140:LEU:HB2	1:n:147:THR:HB	2.01	0.43
1:n:515:LYS:HB3	1:n:516:ASN:CB	2.47	0.43
1:o:229:VAL:HG21	1:y:133:ASN:ND2	2.33	0.43
1:o:326:ASN:O	1:o:327:ILE:HG12	2.18	0.43
1:s:326:ASN:O	1:s:327:ILE:HG12	2.18	0.43
1:v:492:ARG:HG3	1:x:497:LEU:HD13	1.99	0.43
1:w:41:THR:HG21	1:w:235:SER:CB	2.45	0.43
1:w:313:THR:OG1	1:x:270:GLN:OE1	2.36	0.43
1:7:275:ASN:CB	1:7:276:GLY:HA3	2.41	0.43
1:A:262:PRO:HG2	1:G:90:CYS:HB2	1.99	0.43
1:B:41:THR:HG21	1:B:235:SER:CB	2.46	0.43
1:B:284:ARG:HB3	1:J:357:TYR:CE2	2.52	0.43
1:D:326:ASN:O	1:D:327:ILE:HG12	2.18	0.43
1:D:497:LEU:HD13	1:M:492:ARG:HG3	2.00	0.43
1:G:349:ASP:HB3	1:G:352:TYR:CD2	2.54	0.43
1:G:366:ASP:HA	1:G:367:GLY:HA2	1.77	0.43
1:H:349:ASP:HB3	1:H:352:TYR:CD2	2.54	0.43
1:K:270:GLN:OE1	1:I:313:THR:OG1	2.36	0.43
1:N:58:LYS:HG2	1:N:475:GLU:HG3	2.00	0.43
1:P:87:SER:HB2	1:P:198:HIS:HB3	2.00	0.43
1:P:326:ASN:O	1:P:327:ILE:HG12	2.18	0.43
1:Q:133:ASN:HD21	1:S:229:VAL:HG21	1.84	0.43
1:Q:349:ASP:HB3	1:Q:352:TYR:CD2	2.54	0.43
1:Q:492:ARG:HG3	1:R:497:LEU:HD13	1.99	0.43
1:S:41:THR:HG21	1:S:235:SER:CB	2.46	0.43
1:S:514:ASP:OD1	1:S:515:LYS:N	2.50	0.43
1:T:90:CYS:HB2	1:f:262:PRO:HG2	2.01	0.43
1:T:313:THR:OG1	1:f:270:GLN:OE1	2.36	0.43
1:T:349:ASP:HB3	1:T:352:TYR:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:270:GLN:OE1	1:5:313:THR:OG1	2.36	0.43
1:V:349:ASP:HB3	1:V:352:TYR:CD2	2.54	0.43
1:V:366:ASP:HA	1:V:367:GLY:HA2	1.77	0.43
1:W:341:PRO:HG2	1:W:352:TYR:HD1	1.84	0.43
1:X:326:ASN:O	1:X:327:ILE:HG12	2.18	0.43
1:X:341:PRO:HG2	1:X:352:TYR:HD1	1.84	0.43
1:3:326:ASN:O	1:3:327:ILE:HG12	2.18	0.43
1:3:349:ASP:HB3	1:3:352:TYR:CD2	2.54	0.43
1:4:139:ILE:HD11	1:4:467:TYR:CD2	2.50	0.43
1:4:349:ASP:HB3	1:4:352:TYR:CD2	2.54	0.43
1:4:497:LEU:HD13	1:h:492:ARG:HG3	2.00	0.43
1:5:349:ASP:HB3	1:5:352:TYR:CD2	2.54	0.43
1:6:61:ARG:NH1	1:6:178:MET:HE2	2.32	0.43
1:a:87:SER:HB2	1:a:198:HIS:HB3	2.00	0.43
1:a:492:ARG:HG3	1:t:497:LEU:HD13	2.00	0.43
1:c:349:ASP:HB3	1:c:352:TYR:CD2	2.54	0.43
1:d:87:SER:HB2	1:d:198:HIS:HB3	2.00	0.43
1:d:229:VAL:HG21	1:f:133:ASN:ND2	2.33	0.43
1:d:497:LEU:HD13	1:q:492:ARG:HG3	2.00	0.43
1:e:58:LYS:HG2	1:e:475:GLU:HG3	2.00	0.43
1:f:341:PRO:HG2	1:f:352:TYR:HD1	1.84	0.43
1:g:182:PRO:HD2	1:m:221:MET:HE1	1.99	0.43
1:g:270:GLN:OE1	1:h:313:THR:OG1	2.36	0.43
1:g:349:ASP:HB3	1:g:352:TYR:CD2	2.54	0.43
1:i:262:PRO:HG2	1:j:90:CYS:HB2	2.01	0.43
1:j:221:MET:HE1	1:z:182:PRO:HD2	1.99	0.43
1:k:349:ASP:HB3	1:k:352:TYR:CD2	2.54	0.43
1:n:118:GLU:OE2	1:y:118:GLU:HG2	2.17	0.43
1:n:341:PRO:HG2	1:n:352:TYR:HD1	1.84	0.43
1:o:58:LYS:HG2	1:o:475:GLU:HG3	2.00	0.43
1:p:326:ASN:O	1:p:327:ILE:HG12	2.18	0.43
1:t:313:THR:OG1	1:v:270:GLN:OE1	2.36	0.43
1:v:133:ASN:HD21	1:w:229:VAL:HG21	1.84	0.43
1:v:508:ASN:HB2	1:v:509:PRO:HD2	2.01	0.43
1:w:63:PHE:CE2	1:w:472:VAL:HG13	2.52	0.43
1:w:349:ASP:HB3	1:w:352:TYR:CD2	2.54	0.43
1:z:349:ASP:HB3	1:z:352:TYR:CD2	2.54	0.43
1:7:492:ARG:HG3	1:8:497:LEU:HD13	2.00	0.43
1:8:139:ILE:HD11	1:8:467:TYR:CD2	2.50	0.43
1:8:349:ASP:HB3	1:8:352:TYR:CD2	2.54	0.43
1:A:87:SER:HB2	1:A:198:HIS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:515:LYS:HB3	1:B:516:ASN:CB	2.47	0.43
1:H:41:THR:HG21	1:H:235:SER:CB	2.46	0.43
1:H:508:ASN:HB2	1:H:509:PRO:HD2	2.01	0.43
1:I:507:ILE:HG23	1:I:508:ASN:N	2.23	0.43
1:J:378:LEU:HD13	1:J:378:LEU:HA	1.90	0.43
1:K:229:VAL:HG21	1:7:133:ASN:ND2	2.33	0.43
1:K:262:PRO:HG2	1:1:90:CYS:HB2	2.01	0.43
1:K:341:PRO:HG2	1:K:352:TYR:HD1	1.84	0.43
1:L:133:ASN:HD21	1:2:229:VAL:HG21	1.84	0.43
1:M:515:LYS:HB3	1:M:516:ASN:CB	2.47	0.43
1:N:341:PRO:HG2	1:N:352:TYR:HD1	1.84	0.43
1:Q:341:PRO:HG2	1:Q:352:TYR:HD1	1.84	0.43
1:T:133:ASN:HD21	1:U:229:VAL:HG21	1.84	0.43
1:T:247:ILE:HG13	1:T:436:ILE:HD11	1.99	0.43
1:U:41:THR:HG21	1:U:235:SER:CB	2.46	0.43
1:U:139:ILE:HD11	1:U:467:TYR:CD2	2.50	0.43
1:Y:349:ASP:HB3	1:Y:352:TYR:CD2	2.54	0.43
1:2:140:LEU:HB2	1:2:147:THR:HB	2.01	0.43
1:5:41:THR:HG21	1:5:235:SER:CB	2.46	0.43
1:5:390:THR:HG22	1:5:391:TYR:N	2.32	0.43
1:5:497:LEU:HD13	1:6:492:ARG:HG3	2.00	0.43
1:a:118:GLU:OE2	1:t:118:GLU:HG2	2.18	0.43
1:a:133:ASN:ND2	1:u:229:VAL:HG21	2.34	0.43
1:a:229:VAL:HG21	1:e:133:ASN:HD21	1.84	0.43
1:e:107:PHE:C	1:e:412:ARG:HH12	2.19	0.43
1:h:140:LEU:HB2	1:h:147:THR:HB	2.01	0.43
1:h:275:ASN:CB	1:h:276:GLY:HA3	2.41	0.43
1:h:407:ARG:HE	1:h:430:ASP:CB	2.32	0.43
1:i:58:LYS:HG2	1:i:475:GLU:HG3	2.00	0.43
1:k:118:GLU:HG2	1:r:118:GLU:OE2	2.18	0.43
1:k:341:PRO:HG2	1:k:352:TYR:HD1	1.84	0.43
1:l:58:LYS:HG2	1:l:475:GLU:HG3	2.00	0.43
1:m:515:LYS:HB3	1:m:516:ASN:CB	2.47	0.43
1:n:86:LYS:HD2	1:n:86:LYS:HA	1.78	0.43
1:o:87:SER:HB2	1:o:198:HIS:HB3	2.00	0.43
1:r:58:LYS:HG2	1:r:475:GLU:HG3	2.00	0.43
1:s:515:LYS:HB3	1:s:516:ASN:CB	2.47	0.43
1:t:270:GLN:OE1	1:u:313:THR:OG1	2.36	0.43
1:v:87:SER:HB2	1:v:198:HIS:HB3	2.00	0.43
1:v:349:ASP:HB3	1:v:352:TYR:CD2	2.54	0.43
1:w:515:LYS:HB3	1:w:516:ASN:CB	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:140:LEU:HB2	1:y:147:THR:HB	2.01	0.43
1:z:270:GLN:OE1	1:7:313:THR:OG1	2.36	0.43
1:7:140:LEU:HB2	1:7:147:THR:HB	2.01	0.43
1:7:407:ARG:HE	1:7:430:ASP:CB	2.32	0.43
1:A:221:MET:HE1	1:B:182:PRO:HD2	2.00	0.43
1:C:341:PRO:HG2	1:C:352:TYR:HD1	1.84	0.43
1:C:492:ARG:HG3	1:L:497:LEU:HD13	2.00	0.43
1:D:140:LEU:HB2	1:D:147:THR:HB	2.01	0.43
1:E:262:PRO:HG2	1:Q:90:CYS:HB2	2.01	0.43
1:E:313:THR:OG1	1:F:270:GLN:OE1	2.37	0.43
1:E:508:ASN:HB2	1:E:509:PRO:HD2	2.01	0.43
1:F:366:ASP:HA	1:F:367:GLY:HA2	1.77	0.43
1:J:140:LEU:HB2	1:J:147:THR:HB	2.01	0.43
1:J:407:ARG:HE	1:J:430:ASP:CB	2.32	0.43
1:K:326:ASN:O	1:K:327:ILE:HG12	2.18	0.43
1:K:501:ILE:HD12	1:K:509:PRO:HA	1.99	0.43
1:L:508:ASN:HB2	1:L:509:PRO:HD2	2.01	0.43
1:M:508:ASN:HB2	1:M:509:PRO:HD2	2.01	0.43
1:O:326:ASN:O	1:O:327:ILE:HG12	2.18	0.43
1:Q:508:ASN:HB2	1:Q:509:PRO:HD2	2.01	0.43
1:R:87:SER:HB2	1:R:198:HIS:HB3	2.00	0.43
1:R:271:TYR:O	1:S:305:ARG:HD2	2.19	0.43
1:S:63:PHE:CE2	1:S:472:VAL:HG13	2.52	0.43
1:S:87:SER:HB2	1:S:198:HIS:HB3	2.00	0.43
1:U:508:ASN:HB2	1:U:509:PRO:HD2	2.01	0.43
1:V:313:THR:OG1	1:X:270:GLN:OE1	2.36	0.43
1:V:326:ASN:O	1:V:327:ILE:HG12	2.18	0.43
1:V:390:THR:HG22	1:V:391:TYR:N	2.32	0.43
1:W:326:ASN:O	1:W:327:ILE:HG12	2.18	0.43
1:X:349:ASP:HB3	1:X:352:TYR:CD2	2.54	0.43
1:Y:390:THR:HG22	1:Y:391:TYR:N	2.32	0.43
1:Z:229:VAL:HG21	1:1:133:ASN:ND2	2.33	0.43
1:2:58:LYS:HG2	1:2:475:GLU:HG3	2.00	0.43
1:3:341:PRO:HG2	1:3:352:TYR:HD1	1.84	0.43
1:4:271:TYR:O	1:f:305:ARG:HD2	2.19	0.43
1:4:326:ASN:O	1:4:327:ILE:HG12	2.18	0.43
1:4:341:PRO:HG2	1:4:352:TYR:HD1	1.84	0.43
1:5:501:ILE:HD12	1:5:509:PRO:HA	1.99	0.43
1:5:508:ASN:HB2	1:5:509:PRO:HD2	2.01	0.43
1:b:118:GLU:HG2	1:e:118:GLU:OE2	2.18	0.43
1:b:133:ASN:HD21	1:c:229:VAL:HG21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:140:LEU:HB2	1:c:147:THR:HB	2.01	0.43
1:c:407:ARG:HE	1:c:430:ASP:CB	2.32	0.43
1:d:508:ASN:HB2	1:d:509:PRO:HD2	2.01	0.43
1:f:326:ASN:O	1:f:327:ILE:HG12	2.18	0.43
1:f:501:ILE:HD12	1:f:509:PRO:HA	1.99	0.43
1:j:515:LYS:HB3	1:j:516:ASN:CB	2.47	0.43
1:k:271:TYR:O	1:l:305:ARG:HD2	2.19	0.43
1:k:277:ASN:OD1	1:k:278:THR:HG23	2.19	0.43
1:o:492:ARG:HG3	1:u:497:LEU:HD13	1.99	0.43
1:r:140:LEU:HB2	1:r:147:THR:HB	2.01	0.43
1:s:508:ASN:HB2	1:s:509:PRO:HD2	2.01	0.43
1:u:271:TYR:O	1:v:305:ARG:HD2	2.19	0.43
1:u:501:ILE:HD12	1:u:509:PRO:HA	1.99	0.43
1:u:508:ASN:HB2	1:u:509:PRO:HD2	2.01	0.43
1:w:305:ARG:HD2	1:x:271:TYR:O	2.19	0.43
1:8:105:SER:HB3	1:8:178:MET:HB3	2.01	0.43
1:8:277:ASN:OD1	1:8:278:THR:HG23	2.19	0.43
1:8:326:ASN:O	1:8:327:ILE:HG12	2.18	0.43
1:B:497:LEU:HD13	1:I:492:ARG:HG3	2.00	0.43
1:C:271:TYR:O	1:2:305:ARG:HD2	2.19	0.43
1:D:229:VAL:HG21	1:E:133:ASN:ND2	2.33	0.43
1:E:271:TYR:O	1:Q:305:ARG:HD2	2.19	0.43
1:E:277:ASN:OD1	1:E:278:THR:HG23	2.19	0.43
1:F:349:ASP:HB3	1:F:352:TYR:CD2	2.54	0.43
1:G:326:ASN:O	1:G:327:ILE:HG12	2.18	0.43
1:H:390:THR:HG22	1:H:391:TYR:N	2.32	0.43
1:I:349:ASP:HB3	1:I:352:TYR:CD2	2.54	0.43
1:I:505:ASP:OD1	1:I:505:ASP:N	2.52	0.43
1:K:133:ASN:ND2	1:L:229:VAL:HG21	2.33	0.43
1:K:271:TYR:O	1:1:305:ARG:HD2	2.19	0.43
1:K:305:ARG:HD2	1:8:271:TYR:O	2.19	0.43
1:K:306:VAL:O	1:K:313:THR:HG22	2.19	0.43
1:N:118:GLU:OE2	1:O:118:GLU:HG2	2.18	0.43
1:O:229:VAL:HG21	1:4:133:ASN:HD21	1.84	0.43
1:P:341:PRO:HG2	1:P:352:TYR:HD1	1.84	0.43
1:P:496:ALA:HA	1:P:499:LEU:HG	2.01	0.43
1:Q:58:LYS:HG2	1:Q:475:GLU:HG3	2.00	0.43
1:Q:496:ALA:HA	1:Q:499:LEU:HG	2.01	0.43
1:R:349:ASP:HB3	1:R:352:TYR:CD2	2.54	0.43
1:T:133:ASN:ND2	1:U:229:VAL:HG21	2.33	0.43
1:T:305:ARG:HD2	1:f:271:TYR:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:476:ILE:HD13	1:T:476:ILE:HG21	1.83	0.43
1:U:87:SER:HB2	1:U:198:HIS:HB3	2.00	0.43
1:W:349:ASP:HB3	1:W:352:TYR:CD2	2.54	0.43
1:Y:326:ASN:O	1:Y:327:ILE:HG12	2.18	0.43
1:Z:41:THR:HG21	1:Z:235:SER:CB	2.46	0.43
1:Z:229:VAL:HG21	1:1:133:ASN:HD21	1.84	0.43
1:Z:508:ASN:HB2	1:Z:509:PRO:HD2	2.01	0.43
1:1:390:THR:HG22	1:1:391:TYR:N	2.32	0.43
1:2:133:ASN:ND2	1:i:229:VAL:HG21	2.33	0.43
1:3:271:TYR:O	1:i:305:ARG:HD2	2.19	0.43
1:3:277:ASN:OD1	1:3:278:THR:HG23	2.19	0.43
1:6:326:ASN:O	1:6:327:ILE:HG12	2.18	0.43
1:a:305:ARG:HD2	1:b:271:TYR:O	2.19	0.43
1:b:505:ASP:OD1	1:b:505:ASP:N	2.52	0.43
1:d:133:ASN:HD21	1:r:229:VAL:HG21	1.84	0.43
1:d:229:VAL:HG21	1:f:133:ASN:HD21	1.84	0.43
1:k:87:SER:HB2	1:k:198:HIS:HB3	2.00	0.43
1:l:229:VAL:HG21	1:r:133:ASN:ND2	2.33	0.43
1:m:349:ASP:HB3	1:m:352:TYR:CD2	2.54	0.43
1:p:229:VAL:HG21	1:u:133:ASN:ND2	2.33	0.43
1:p:515:LYS:HB3	1:p:516:ASN:CB	2.47	0.43
1:q:271:TYR:O	1:r:305:ARG:HD2	2.19	0.43
1:q:341:PRO:HG2	1:q:352:TYR:HD1	1.84	0.43
1:u:86:LYS:HD2	1:u:86:LYS:HA	1.78	0.43
1:u:277:ASN:OD1	1:u:278:THR:HG23	2.19	0.43
1:v:326:ASN:O	1:v:327:ILE:HG12	2.18	0.43
1:v:341:PRO:HG2	1:v:352:TYR:HD1	1.84	0.43
1:v:496:ALA:HA	1:v:499:LEU:HG	2.01	0.43
1:w:133:ASN:HD21	1:8:229:VAL:HG21	1.84	0.43
1:y:86:LYS:HA	1:y:86:LYS:HD2	1.78	0.43
1:8:41:THR:HG21	1:8:235:SER:CB	2.46	0.43
1:A:118:GLU:OE2	1:F:118:GLU:HG2	2.19	0.43
1:A:305:ARG:HD2	1:I:271:TYR:O	2.19	0.43
1:A:313:THR:OG1	1:I:270:GLN:OE1	2.37	0.43
1:A:496:ALA:HA	1:A:499:LEU:HG	2.01	0.43
1:B:87:SER:HB2	1:B:198:HIS:HB3	2.00	0.43
1:B:349:ASP:HB3	1:B:352:TYR:CD2	2.54	0.43
1:B:508:ASN:HB2	1:B:509:PRO:HD2	2.01	0.43
1:C:277:ASN:OD1	1:C:278:THR:HG23	2.19	0.43
1:D:271:TYR:O	1:N:305:ARG:HD2	2.19	0.43
1:D:505:ASP:OD1	1:D:505:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:105:SER:HB3	1:E:178:MET:HB3	2.01	0.43
1:E:349:ASP:HB3	1:E:352:TYR:CD2	2.54	0.43
1:E:501:ILE:HD12	1:E:509:PRO:HA	1.99	0.43
1:F:277:ASN:OD1	1:F:278:THR:HG23	2.19	0.43
1:G:271:TYR:O	1:I:305:ARG:HD2	2.19	0.43
1:H:105:SER:HB3	1:H:178:MET:HB3	2.01	0.43
1:H:172:PRO:HB3	1:H:415:PRO:HG3	2.01	0.43
1:I:508:ASN:HB2	1:I:509:PRO:HD2	2.01	0.43
1:J:508:ASN:HB2	1:J:509:PRO:HD2	2.01	0.43
1:K:58:LYS:HG2	1:K:475:GLU:HG3	2.00	0.43
1:K:133:ASN:HD21	1:L:229:VAL:HG21	1.84	0.43
1:K:277:ASN:OD1	1:K:278:THR:HG23	2.19	0.43
1:M:105:SER:HB3	1:M:178:MET:HB3	2.01	0.43
1:M:277:ASN:OD1	1:M:278:THR:HG23	2.19	0.43
1:N:86:LYS:HD2	1:N:86:LYS:HA	1.78	0.43
1:O:313:THR:OG1	1:h:270:GLN:OE1	2.37	0.43
1:P:139:ILE:HD11	1:P:467:TYR:CD2	2.50	0.43
1:Q:87:SER:HB2	1:Q:198:HIS:HB3	2.00	0.43
1:Q:326:ASN:O	1:Q:327:ILE:HG12	2.18	0.43
1:R:140:LEU:O	1:R:146:VAL:HA	2.19	0.43
1:R:229:VAL:HG21	1:V:133:ASN:HD21	1.83	0.43
1:R:496:ALA:HA	1:R:499:LEU:HG	2.01	0.43
1:T:140:LEU:O	1:T:146:VAL:HA	2.19	0.43
1:T:390:THR:HG22	1:T:391:TYR:N	2.32	0.43
1:T:508:ASN:HB2	1:T:509:PRO:HD2	2.01	0.43
1:U:306:VAL:O	1:U:313:THR:HG22	2.19	0.43
1:U:341:PRO:HG2	1:U:352:TYR:HD1	1.84	0.43
1:V:90:CYS:HB2	1:X:262:PRO:HG2	2.01	0.43
1:W:172:PRO:HB3	1:W:415:PRO:HG3	2.01	0.43
1:W:262:PRO:HG2	1:Y:90:CYS:HB2	2.01	0.43
1:W:270:GLN:OE1	1:Y:313:THR:OG1	2.36	0.43
1:X:172:PRO:HB3	1:X:415:PRO:HG3	2.01	0.43
1:X:305:ARG:HD2	1:5:271:TYR:O	2.19	0.43
1:Y:133:ASN:HD21	1:x:229:VAL:HG21	1.84	0.43
1:Y:172:PRO:HB3	1:Y:415:PRO:HG3	2.01	0.43
1:Z:87:SER:HB2	1:Z:198:HIS:HB3	2.00	0.43
1:Z:139:ILE:HD11	1:Z:467:TYR:CD2	2.50	0.43
1:Z:306:VAL:O	1:Z:313:THR:HG22	2.19	0.43
1:Z:341:PRO:HG2	1:Z:352:TYR:HD1	1.84	0.43
1:1:341:PRO:HG2	1:1:352:TYR:HD1	1.84	0.43
1:1:508:ASN:HB2	1:1:509:PRO:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:341:PRO:HG2	1:2:352:TYR:HD1	1.84	0.43
1:3:90:CYS:HB2	1:j:262:PRO:HG2	2.01	0.43
1:3:305:ARG:HD2	1:j:271:TYR:O	2.19	0.43
1:4:105:SER:HB3	1:4:178:MET:HB3	2.01	0.43
1:4:277:ASN:OD1	1:4:278:THR:HG23	2.19	0.43
1:5:140:LEU:O	1:5:146:VAL:HA	2.19	0.43
1:5:172:PRO:HB3	1:5:415:PRO:HG3	2.01	0.43
1:a:496:ALA:HA	1:a:499:LEU:HG	2.01	0.43
1:b:492:ARG:HG3	1:e:497:LEU:HD13	2.00	0.43
1:b:508:ASN:HB2	1:b:509:PRO:HD2	2.01	0.43
1:c:87:SER:HB2	1:c:198:HIS:HB3	2.00	0.43
1:c:508:ASN:HB2	1:c:509:PRO:HD2	2.01	0.43
1:d:140:LEU:HB2	1:d:147:THR:HB	2.01	0.43
1:e:87:SER:HB2	1:e:198:HIS:HB3	2.00	0.43
1:e:508:ASN:HB2	1:e:509:PRO:HD2	2.01	0.43
1:f:277:ASN:OD1	1:f:278:THR:HG23	2.19	0.43
1:h:277:ASN:OD1	1:h:278:THR:HG23	2.19	0.43
1:h:306:VAL:O	1:h:313:THR:HG22	2.19	0.43
1:j:306:VAL:O	1:j:313:THR:HG22	2.19	0.43
1:k:90:CYS:HB2	1:m:262:PRO:HG2	2.01	0.43
1:k:305:ARG:HD2	1:m:271:TYR:O	2.19	0.43
1:l:86:LYS:HA	1:l:86:LYS:HD2	1.78	0.43
1:l:407:ARG:HE	1:l:430:ASP:CB	2.32	0.43
1:m:306:VAL:O	1:m:313:THR:HG22	2.19	0.43
1:o:341:PRO:HG2	1:o:352:TYR:HD1	1.84	0.43
1:q:277:ASN:OD1	1:q:278:THR:HG23	2.19	0.43
1:r:341:PRO:HG2	1:r:352:TYR:HD1	1.84	0.43
1:s:87:SER:HB2	1:s:198:HIS:HB3	2.00	0.43
1:s:277:ASN:OD1	1:s:278:THR:HG23	2.19	0.43
1:t:229:VAL:HG21	1:x:133:ASN:ND2	2.33	0.43
1:t:229:VAL:HG21	1:x:133:ASN:HD21	1.84	0.43
1:t:277:ASN:OD1	1:t:278:THR:HG23	2.19	0.43
1:t:349:ASP:HB3	1:t:352:TYR:CD2	2.54	0.43
1:u:105:SER:HB3	1:u:178:MET:HB3	2.01	0.43
1:u:140:LEU:O	1:u:146:VAL:HA	2.19	0.43
1:u:262:PRO:HG2	1:v:90:CYS:HB2	2.01	0.43
1:u:349:ASP:HB3	1:u:352:TYR:CD2	2.54	0.43
1:w:58:LYS:HG2	1:w:475:GLU:HG3	2.00	0.43
1:x:87:SER:HB2	1:x:198:HIS:HB3	2.00	0.43
1:x:349:ASP:HB3	1:x:352:TYR:CD2	2.54	0.43
1:y:313:THR:OG1	1:7:270:GLN:OE1	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:326:ASN:O	1:y:327:ILE:HG12	2.18	0.43
1:z:90:CYS:SG	1:z:91:VAL:N	2.79	0.43
1:z:508:ASN:HB2	1:z:509:PRO:HD2	2.01	0.43
1:7:277:ASN:OD1	1:7:278:THR:HG23	2.19	0.43
1:7:306:VAL:O	1:7:313:THR:HG22	2.19	0.43
1:8:341:PRO:HG2	1:8:352:TYR:HD1	1.84	0.43
1:A:90:CYS:HB2	1:I:262:PRO:HG2	2.01	0.43
1:A:229:VAL:HG21	1:B:133:ASN:HD21	1.84	0.43
1:A:271:TYR:O	1:G:305:ARG:HD2	2.18	0.43
1:C:229:VAL:HG21	1:D:133:ASN:ND2	2.33	0.43
1:D:262:PRO:HG2	1:N:90:CYS:HB2	2.01	0.43
1:D:515:LYS:HB3	1:D:516:ASN:CB	2.47	0.43
1:E:140:LEU:O	1:E:146:VAL:HA	2.19	0.43
1:G:41:THR:HG21	1:G:235:SER:CB	2.46	0.43
1:G:43:GLY:HA2	1:W:229:VAL:HG22	2.01	0.43
1:G:105:SER:HB3	1:G:178:MET:HB3	2.01	0.43
1:G:258:LEU:HD23	1:I:194:ILE:HG21	2.01	0.43
1:H:140:LEU:O	1:H:146:VAL:HA	2.19	0.43
1:I:87:SER:HB2	1:I:198:HIS:HB3	2.00	0.43
1:I:105:SER:HB3	1:I:178:MET:HB3	2.01	0.43
1:I:140:LEU:O	1:I:146:VAL:HA	2.19	0.43
1:J:86:LYS:HD2	1:J:86:LYS:HA	1.78	0.43
1:J:87:SER:HB2	1:J:198:HIS:HB3	2.00	0.43
1:J:277:ASN:OD1	1:J:278:THR:HG23	2.19	0.43
1:L:140:LEU:HB2	1:L:147:THR:HB	2.01	0.43
1:M:133:ASN:HD21	1:N:229:VAL:HG21	1.84	0.43
1:M:313:THR:OG1	1:2:270:GLN:OE1	2.36	0.43
1:M:349:ASP:HB3	1:M:352:TYR:CD2	2.54	0.43
1:N:105:SER:HB3	1:N:178:MET:HB3	2.01	0.43
1:N:508:ASN:HB2	1:N:509:PRO:HD2	2.01	0.43
1:O:133:ASN:ND2	1:P:229:VAL:HG21	2.34	0.43
1:O:305:ARG:HD2	1:h:271:TYR:O	2.19	0.43
1:P:133:ASN:ND2	1:Q:229:VAL:HG21	2.33	0.43
1:P:349:ASP:HB3	1:P:352:TYR:CD2	2.54	0.43
1:R:508:ASN:HB2	1:R:509:PRO:HD2	2.01	0.43
1:S:105:SER:HB3	1:S:178:MET:HB3	2.01	0.43
1:S:326:ASN:O	1:S:327:ILE:HG12	2.18	0.43
1:U:92:SER:HB3	1:U:190:GLN:NE2	2.34	0.43
1:U:275:ASN:HB3	1:U:276:GLY:CA	2.45	0.43
1:V:139:ILE:HD11	1:V:467:TYR:CD2	2.50	0.43
1:V:172:PRO:HB3	1:V:415:PRO:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:58:LYS:HG2	1:Y:475:GLU:HG3	2.00	0.43
1:Y:87:SER:HB2	1:Y:198:HIS:HB3	2.00	0.43
1:1:140:LEU:O	1:1:146:VAL:HA	2.19	0.43
1:2:326:ASN:O	1:2:327:ILE:HG12	2.18	0.43
1:2:505:ASP:N	1:2:505:ASP:OD1	2.52	0.43
1:3:87:SER:HB2	1:3:198:HIS:HB3	2.00	0.43
1:5:105:SER:HB3	1:5:178:MET:HB3	2.01	0.43
1:6:105:SER:HB3	1:6:178:MET:HB3	2.01	0.43
1:6:366:ASP:HA	1:6:367:GLY:HA2	1.77	0.43
1:6:508:ASN:HB2	1:6:509:PRO:HD2	2.01	0.43
1:a:341:PRO:HG2	1:a:352:TYR:HD1	1.84	0.43
1:b:140:LEU:O	1:b:146:VAL:HA	2.19	0.43
1:b:349:ASP:HB3	1:b:352:TYR:CD2	2.54	0.43
1:c:378:LEU:HD13	1:c:378:LEU:HA	1.90	0.43
1:d:105:SER:HB3	1:d:178:MET:HB3	2.01	0.43
1:e:105:SER:HB3	1:e:178:MET:HB3	2.01	0.43
1:e:306:VAL:O	1:e:313:THR:HG22	2.19	0.43
1:e:349:ASP:HB3	1:e:352:TYR:CD2	2.54	0.43
1:f:58:LYS:HG2	1:f:475:GLU:HG3	2.00	0.43
1:f:229:VAL:HG21	1:h:133:ASN:HD21	1.84	0.43
1:f:306:VAL:O	1:f:313:THR:HG22	2.19	0.43
1:g:140:LEU:HB2	1:g:147:THR:HB	2.01	0.43
1:g:341:PRO:HG2	1:g:352:TYR:HD1	1.84	0.43
1:g:508:ASN:HB2	1:g:509:PRO:HD2	2.01	0.43
1:h:90:CYS:SG	1:h:91:VAL:N	2.79	0.43
1:h:172:PRO:HB3	1:h:415:PRO:HG3	2.01	0.43
1:i:407:ARG:HE	1:i:430:ASP:CB	2.32	0.43
1:j:140:LEU:HB2	1:j:147:THR:HB	2.01	0.43
1:j:349:ASP:HB3	1:j:352:TYR:CD2	2.54	0.43
1:m:341:PRO:HG2	1:m:352:TYR:HD1	1.84	0.43
1:n:229:VAL:HG21	1:s:133:ASN:HD21	1.84	0.43
1:n:305:ARG:HD2	1:p:271:TYR:O	2.19	0.43
1:n:497:LEU:HD13	1:y:492:ARG:HG3	2.00	0.43
1:o:496:ALA:HA	1:o:499:LEU:HG	2.01	0.43
1:p:140:LEU:HB2	1:p:147:THR:HB	2.01	0.43
1:p:505:ASP:N	1:p:505:ASP:OD1	2.52	0.43
1:q:90:CYS:HB2	1:s:262:PRO:HG2	2.01	0.43
1:r:270:GLN:OE1	1:s:313:THR:OG1	2.36	0.43
1:s:105:SER:HB3	1:s:178:MET:HB3	2.01	0.43
1:s:349:ASP:HB3	1:s:352:TYR:CD2	2.54	0.43
1:t:140:LEU:HB2	1:t:147:THR:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:326:ASN:O	1:w:327:ILE:HG12	2.18	0.43
1:x:507:ILE:HG23	1:x:508:ASN:N	2.23	0.43
1:y:139:ILE:HD11	1:y:467:TYR:CD2	2.50	0.43
1:z:341:PRO:HG2	1:z:352:TYR:HD1	1.83	0.43
1:7:90:CYS:SG	1:7:91:VAL:N	2.79	0.43
1:7:172:PRO:HB3	1:7:415:PRO:HG3	2.01	0.43
1:7:349:ASP:HB3	1:7:352:TYR:CD2	2.54	0.43
1:A:326:ASN:O	1:A:327:ILE:HG12	2.18	0.42
1:A:341:PRO:HG2	1:A:352:TYR:HD1	1.84	0.42
1:A:492:ARG:HG3	1:F:497:LEU:HD13	2.01	0.42
1:A:505:ASP:OD1	1:A:505:ASP:N	2.52	0.42
1:B:105:SER:HB3	1:B:178:MET:HB3	2.01	0.42
1:B:277:ASN:OD1	1:B:278:THR:HG23	2.19	0.42
1:B:306:VAL:O	1:B:313:THR:HG22	2.19	0.42
1:C:90:CYS:HB2	1:M:262:PRO:HG2	2.01	0.42
1:C:105:SER:HB3	1:C:178:MET:HB3	2.01	0.42
1:C:229:VAL:HG21	1:D:133:ASN:HD21	1.84	0.42
1:C:496:ALA:HA	1:C:499:LEU:HG	2.01	0.42
1:E:326:ASN:O	1:E:327:ILE:HG12	2.18	0.42
1:E:497:LEU:HD13	1:P:492:ARG:HG3	2.00	0.42
1:F:90:CYS:HB2	1:Q:262:PRO:HG2	2.01	0.42
1:F:229:VAL:HG21	1:R:133:ASN:ND2	2.33	0.42
1:F:229:VAL:HG21	1:R:133:ASN:HD21	1.84	0.42
1:F:407:ARG:HE	1:F:430:ASP:CB	2.32	0.42
1:G:113:GLN:OE1	1:H:490:PRO:HB3	2.19	0.42
1:G:505:ASP:OD1	1:G:505:ASP:N	2.52	0.42
1:G:508:ASN:HB2	1:G:509:PRO:HD2	2.01	0.42
1:H:87:SER:HB2	1:H:198:HIS:HB3	2.00	0.42
1:H:271:TYR:O	1:W:305:ARG:HD2	2.19	0.42
1:K:229:VAL:HG21	1:7:133:ASN:HD21	1.84	0.42
1:K:378:LEU:HD13	1:K:378:LEU:HA	1.90	0.42
1:L:105:SER:HB3	1:L:178:MET:HB3	2.01	0.42
1:M:305:ARG:HD2	1:2:271:TYR:O	2.19	0.42
1:N:133:ASN:HD21	1:g:229:VAL:HG21	1.84	0.42
1:N:277:ASN:OD1	1:N:278:THR:HG23	2.19	0.42
1:O:58:LYS:HG2	1:O:475:GLU:HG3	2.00	0.42
1:O:407:ARG:HE	1:O:430:ASP:CB	2.32	0.42
1:O:507:ILE:CG2	1:O:508:ASN:H	2.22	0.42
1:R:306:VAL:O	1:R:313:THR:HG22	2.19	0.42
1:S:58:LYS:HG2	1:S:475:GLU:HG3	2.00	0.42
1:S:133:ASN:HD21	1:4:229:VAL:HG21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:140:LEU:HB2	1:S:147:THR:HB	2.01	0.42
1:S:277:ASN:OD1	1:S:278:THR:HG23	2.19	0.42
1:S:306:VAL:O	1:S:313:THR:HG22	2.19	0.42
1:T:271:TYR:O	1:4:305:ARG:HD2	2.19	0.42
1:T:341:PRO:HG2	1:T:352:TYR:HD1	1.84	0.42
1:T:505:ASP:OD1	1:T:505:ASP:N	2.52	0.42
1:W:105:SER:HB3	1:W:178:MET:HB3	2.01	0.42
1:W:508:ASN:HB2	1:W:509:PRO:HD2	2.01	0.42
1:X:105:SER:HB3	1:X:178:MET:HB3	2.01	0.42
1:X:496:ALA:HA	1:X:499:LEU:HG	2.01	0.42
1:Y:139:ILE:HD11	1:Y:467:TYR:CD2	2.50	0.42
1:Y:277:ASN:OD1	1:Y:278:THR:HG23	2.19	0.42
1:Z:92:SER:HB3	1:Z:190:GLN:NE2	2.34	0.42
1:1:496:ALA:HA	1:1:499:LEU:HG	2.01	0.42
1:4:41:THR:HG21	1:4:235:SER:CB	2.46	0.42
1:4:262:PRO:HG2	1:f:90:CYS:HB2	2.01	0.42
1:5:275:ASN:HB3	1:5:276:GLY:CA	2.45	0.42
1:6:229:VAL:HG21	1:t:133:ASN:HD21	1.84	0.42
1:a:90:CYS:HB2	1:b:262:PRO:HG2	2.01	0.42
1:b:87:SER:HB2	1:b:198:HIS:HB3	2.00	0.42
1:b:105:SER:HB3	1:b:178:MET:HB3	2.01	0.42
1:b:326:ASN:O	1:b:327:ILE:HG12	2.18	0.42
1:c:277:ASN:OD1	1:c:278:THR:HG23	2.19	0.42
1:f:508:ASN:HB2	1:f:509:PRO:HD2	2.01	0.42
1:h:349:ASP:HB3	1:h:352:TYR:CD2	2.54	0.42
1:h:505:ASP:N	1:h:505:ASP:OD1	2.52	0.42
1:j:341:PRO:HG2	1:j:352:TYR:HD1	1.84	0.42
1:l:306:VAL:O	1:l:313:THR:HG22	2.19	0.42
1:n:90:CYS:HB2	1:p:262:PRO:HG2	2.01	0.42
1:n:271:TYR:O	1:o:305:ARG:HD2	2.19	0.42
1:n:508:ASN:HB2	1:n:509:PRO:HD2	2.01	0.42
1:o:92:SER:HB3	1:o:190:GLN:NE2	2.34	0.42
1:o:133:ASN:ND2	1:v:229:VAL:HG21	2.33	0.42
1:o:349:ASP:HB3	1:o:352:TYR:CD2	2.54	0.42
1:p:105:SER:HB3	1:p:178:MET:HB3	2.01	0.42
1:p:133:ASN:ND2	1:q:229:VAL:HG21	2.33	0.42
1:p:133:ASN:HD21	1:q:229:VAL:HG21	1.84	0.42
1:r:271:TYR:O	1:s:305:ARG:HD2	2.19	0.42
1:r:326:ASN:O	1:r:327:ILE:HG12	2.18	0.42
1:r:505:ASP:OD1	1:r:505:ASP:N	2.52	0.42
1:t:275:ASN:HB3	1:t:276:GLY:CA	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:407:ARG:HE	1:t:430:ASP:CB	2.32	0.42
1:t:508:ASN:HB2	1:t:509:PRO:HD2	2.01	0.42
1:u:326:ASN:O	1:u:327:ILE:HG12	2.18	0.42
1:w:105:SER:HB3	1:w:178:MET:HB3	2.01	0.42
1:w:277:ASN:OD1	1:w:278:THR:HG23	2.19	0.42
1:w:341:PRO:HG2	1:w:352:TYR:HD1	1.84	0.42
1:w:390:THR:HG22	1:w:391:TYR:N	2.32	0.42
1:x:92:SER:HB3	1:x:190:GLN:NE2	2.34	0.42
1:x:140:LEU:O	1:x:146:VAL:HA	2.19	0.42
1:x:508:ASN:HB2	1:x:509:PRO:HD2	2.01	0.42
1:y:58:LYS:HG2	1:y:475:GLU:HG3	2.00	0.42
1:7:92:SER:HB3	1:7:190:GLN:NE2	2.34	0.42
1:8:86:LYS:HA	1:8:86:LYS:HD2	1.78	0.42
1:8:390:THR:HG22	1:8:391:TYR:N	2.32	0.42
1:B:366:ASP:HA	1:B:367:GLY:HA2	1.77	0.42
1:D:87:SER:HB2	1:D:198:HIS:HB3	2.00	0.42
1:D:105:SER:HB3	1:D:178:MET:HB3	2.01	0.42
1:E:92:SER:HB3	1:E:190:GLN:NE2	2.34	0.42
1:F:140:LEU:HB2	1:F:147:THR:HB	2.01	0.42
1:F:305:ARG:HD2	1:Q:271:TYR:O	2.19	0.42
1:F:508:ASN:HB2	1:F:509:PRO:HD2	2.01	0.42
1:G:172:PRO:HB3	1:G:415:PRO:HG3	2.01	0.42
1:H:92:SER:HB3	1:H:190:GLN:NE2	2.34	0.42
1:H:275:ASN:HB3	1:H:276:GLY:CA	2.45	0.42
1:I:277:ASN:OD1	1:I:278:THR:HG23	2.19	0.42
1:I:326:ASN:O	1:I:327:ILE:HG12	2.18	0.42
1:K:90:CYS:HB2	1:8:262:PRO:HG2	2.01	0.42
1:K:349:ASP:HB3	1:K:352:TYR:CD2	2.54	0.42
1:M:87:SER:HB2	1:M:198:HIS:HB3	2.00	0.42
1:M:92:SER:HB3	1:M:190:GLN:NE2	2.34	0.42
1:N:271:TYR:O	1:P:305:ARG:HD2	2.19	0.42
1:O:90:CYS:HB2	1:h:262:PRO:HG2	2.01	0.42
1:O:92:SER:HB3	1:O:190:GLN:NE2	2.34	0.42
1:O:172:PRO:HB3	1:O:415:PRO:HG3	2.01	0.42
1:P:92:SER:HB3	1:P:190:GLN:NE2	2.34	0.42
1:Q:92:SER:HB3	1:Q:190:GLN:NE2	2.35	0.42
1:Q:306:VAL:O	1:Q:313:THR:HG22	2.19	0.42
1:R:92:SER:HB3	1:R:190:GLN:NE2	2.34	0.42
1:R:507:ILE:HG23	1:R:508:ASN:N	2.23	0.42
1:S:341:PRO:HG2	1:S:352:TYR:HD1	1.84	0.42
1:T:275:ASN:CB	1:T:276:GLY:HA3	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:496:ALA:HA	1:T:499:LEU:HG	2.01	0.42
1:V:58:LYS:HG2	1:V:475:GLU:HG3	2.00	0.42
1:V:277:ASN:OD1	1:V:278:THR:HG23	2.19	0.42
1:X:90:CYS:HB2	1:5:262:PRO:HG2	2.01	0.42
1:X:313:THR:OG1	1:5:270:GLN:OE1	2.36	0.42
1:X:508:ASN:HB2	1:X:509:PRO:HD2	2.01	0.42
1:Z:107:PHE:C	1:Z:412:ARG:HH12	2.19	0.42
1:Z:275:ASN:HB3	1:Z:276:GLY:CA	2.45	0.42
1:Z:277:ASN:OD1	1:Z:278:THR:HG23	2.19	0.42
1:1:92:SER:HB3	1:1:190:GLN:NE2	2.34	0.42
1:1:505:ASP:OD1	1:1:505:ASP:N	2.52	0.42
1:2:172:PRO:HB3	1:2:415:PRO:HG3	2.01	0.42
1:3:262:PRO:HG2	1:i:90:CYS:HB2	2.01	0.42
1:4:58:LYS:HG2	1:4:475:GLU:HG3	2.00	0.42
1:4:92:SER:HB3	1:4:190:GLN:NE2	2.34	0.42
1:5:87:SER:HB2	1:5:198:HIS:HB3	2.00	0.42
1:5:341:PRO:HG2	1:5:352:TYR:HD1	1.84	0.42
1:6:41:THR:HG21	1:6:235:SER:CB	2.46	0.42
1:6:140:LEU:HB2	1:6:147:THR:HB	2.01	0.42
1:6:172:PRO:HB3	1:6:415:PRO:HG3	2.01	0.42
1:6:262:PRO:HG2	1:b:90:CYS:HB2	2.01	0.42
1:6:505:ASP:OD1	1:6:505:ASP:N	2.52	0.42
1:a:505:ASP:OD1	1:a:505:ASP:N	2.52	0.42
1:b:277:ASN:OD1	1:b:278:THR:HG23	2.19	0.42
1:b:496:ALA:HA	1:b:499:LEU:HG	2.01	0.42
1:d:341:PRO:HG2	1:d:352:TYR:HD1	1.84	0.42
1:d:496:ALA:HA	1:d:499:LEU:HG	2.01	0.42
1:e:140:LEU:HB2	1:e:147:THR:HB	2.01	0.42
1:e:326:ASN:O	1:e:327:ILE:HG12	2.18	0.42
1:g:133:ASN:HD21	1:m:229:VAL:HG21	1.84	0.42
1:h:86:LYS:HA	1:h:86:LYS:HD2	1.78	0.42
1:i:306:VAL:O	1:i:313:THR:HG22	2.19	0.42
1:k:140:LEU:HB2	1:k:147:THR:HB	2.01	0.42
1:k:262:PRO:HG2	1:l:90:CYS:HB2	2.01	0.42
1:k:507:ILE:HG23	1:k:508:ASN:N	2.23	0.42
1:l:90:CYS:SG	1:l:91:VAL:N	2.79	0.42
1:l:349:ASP:HB3	1:l:352:TYR:CD2	2.54	0.42
1:m:140:LEU:HB2	1:m:147:THR:HB	2.01	0.42
1:m:326:ASN:O	1:m:327:ILE:HG12	2.18	0.42
1:n:105:SER:HB3	1:n:178:MET:HB3	2.01	0.42
1:n:133:ASN:HD21	1:z:229:VAL:HG21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:277:ASN:OD1	1:n:278:THR:HG23	2.19	0.42
1:o:139:ILE:HD11	1:o:467:TYR:CD2	2.50	0.42
1:q:87:SER:HB2	1:q:198:HIS:HB3	2.00	0.42
1:q:105:SER:HB3	1:q:178:MET:HB3	2.01	0.42
1:q:107:PHE:C	1:q:412:ARG:HH12	2.19	0.42
1:q:496:ALA:HA	1:q:499:LEU:HG	2.01	0.42
1:r:349:ASP:HB3	1:r:352:TYR:CD2	2.54	0.42
1:s:92:SER:HB3	1:s:190:GLN:NE2	2.34	0.42
1:s:476:ILE:HD13	1:s:476:ILE:HG21	1.83	0.42
1:s:496:ALA:HA	1:s:499:LEU:HG	2.01	0.42
1:t:90:CYS:HB2	1:v:262:PRO:HG2	2.01	0.42
1:t:305:ARG:HD2	1:v:271:TYR:O	2.19	0.42
1:u:92:SER:HB3	1:u:190:GLN:NE2	2.34	0.42
1:u:407:ARG:HE	1:u:430:ASP:CB	2.32	0.42
1:v:58:LYS:HG2	1:v:475:GLU:HG3	2.00	0.42
1:v:92:SER:HB3	1:v:190:GLN:NE2	2.34	0.42
1:v:306:VAL:O	1:v:313:THR:HG22	2.19	0.42
1:w:306:VAL:O	1:w:313:THR:HG22	2.19	0.42
1:x:306:VAL:O	1:x:313:THR:HG22	2.19	0.42
1:x:496:ALA:HA	1:x:499:LEU:HG	2.01	0.42
1:y:262:PRO:HG2	1:z:90:CYS:HB2	2.02	0.42
1:y:407:ARG:HE	1:y:430:ASP:CB	2.32	0.42
1:z:41:THR:HG21	1:z:235:SER:CB	2.46	0.42
1:7:505:ASP:OD1	1:7:505:ASP:N	2.52	0.42
1:8:58:LYS:HG2	1:8:475:GLU:HG3	2.00	0.42
1:8:92:SER:HB3	1:8:190:GLN:NE2	2.34	0.42
1:C:140:LEU:HB2	1:C:147:THR:HB	2.01	0.42
1:E:407:ARG:HE	1:E:430:ASP:CB	2.32	0.42
1:G:140:LEU:HB2	1:G:147:THR:HB	2.01	0.42
1:G:255:PRO:HD3	1:I:197:ILE:HD11	2.01	0.42
1:G:511:TYR:H	1:H:489:ARG:NH1	2.17	0.42
1:H:270:GLN:OE1	1:W:313:THR:OG1	2.37	0.42
1:H:275:ASN:CB	1:H:276:GLY:HA3	2.42	0.42
1:I:496:ALA:HA	1:I:499:LEU:HG	2.01	0.42
1:J:140:LEU:O	1:J:146:VAL:HA	2.19	0.42
1:J:172:PRO:HB3	1:J:415:PRO:HG3	2.01	0.42
1:L:341:PRO:HG2	1:L:352:TYR:HD1	1.84	0.42
1:L:496:ALA:HA	1:L:499:LEU:HG	2.01	0.42
1:M:496:ALA:HA	1:M:499:LEU:HG	2.01	0.42
1:N:140:LEU:O	1:N:146:VAL:HA	2.19	0.42
1:N:172:PRO:HB3	1:N:415:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:349:ASP:HB3	1:N:352:TYR:CD2	2.54	0.42
1:N:366:ASP:HA	1:N:367:GLY:HA2	1.77	0.42
1:O:139:ILE:HD11	1:O:467:TYR:CD2	2.50	0.42
1:P:505:ASP:N	1:P:505:ASP:OD1	2.52	0.42
1:Q:140:LEU:O	1:Q:146:VAL:HA	2.19	0.42
1:R:58:LYS:HG2	1:R:475:GLU:HG3	2.00	0.42
1:R:172:PRO:HB3	1:R:415:PRO:HG3	2.01	0.42
1:S:390:THR:HG22	1:S:391:TYR:N	2.32	0.42
1:T:92:SER:HB3	1:T:190:GLN:NE2	2.35	0.42
1:T:306:VAL:O	1:T:313:THR:HG22	2.19	0.42
1:U:105:SER:HB3	1:U:178:MET:HB3	2.01	0.42
1:U:107:PHE:C	1:U:412:ARG:HH12	2.19	0.42
1:V:87:SER:HB2	1:V:198:HIS:HB3	2.00	0.42
1:W:496:ALA:HA	1:W:499:LEU:HG	2.01	0.42
1:1:271:TYR:O	1:8:305:ARG:HD2	2.19	0.42
1:1:306:VAL:O	1:1:313:THR:HG22	2.19	0.42
1:3:270:GLN:OE1	1:i:313:THR:OG1	2.36	0.42
1:4:140:LEU:HB2	1:4:147:THR:HB	2.01	0.42
1:4:390:THR:HG22	1:4:391:TYR:N	2.32	0.42
1:5:92:SER:HB3	1:5:190:GLN:NE2	2.34	0.42
1:5:107:PHE:C	1:5:412:ARG:HH12	2.19	0.42
1:a:326:ASN:O	1:a:327:ILE:HG12	2.18	0.42
1:c:172:PRO:HB3	1:c:415:PRO:HG3	2.01	0.42
1:d:407:ARG:HE	1:d:430:ASP:CB	2.32	0.42
1:e:277:ASN:OD1	1:e:278:THR:HG23	2.19	0.42
1:g:87:SER:HB2	1:g:198:HIS:HB3	2.00	0.42
1:g:492:ARG:HG3	1:l:497:LEU:HD13	2.00	0.42
1:h:92:SER:HB3	1:h:190:GLN:NE2	2.34	0.42
1:h:229:VAL:HG21	1:l:133:ASN:HD21	1.84	0.42
1:i:349:ASP:HB3	1:i:352:TYR:CD2	2.54	0.42
1:l:507:ILE:HG23	1:l:508:ASN:N	2.23	0.42
1:m:58:LYS:HG2	1:m:475:GLU:HG3	2.00	0.42
1:n:172:PRO:HB3	1:n:415:PRO:HG3	2.01	0.42
1:o:262:PRO:HG2	1:p:90:CYS:HB2	2.01	0.42
1:o:505:ASP:OD1	1:o:505:ASP:N	2.52	0.42
1:q:92:SER:HB3	1:q:190:GLN:NE2	2.34	0.42
1:v:140:LEU:O	1:v:146:VAL:HA	2.19	0.42
1:w:140:LEU:HB2	1:w:147:THR:HB	2.01	0.42
1:x:58:LYS:HG2	1:x:475:GLU:HG3	2.00	0.42
1:z:86:LYS:HD2	1:z:86:LYS:HA	1.78	0.42
1:z:87:SER:HB2	1:z:198:HIS:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:140:LEU:HB2	1:z:147:THR:HB	2.01	0.42
1:8:140:LEU:HB2	1:8:147:THR:HB	2.01	0.42
1:A:508:ASN:HB2	1:A:509:PRO:HD2	2.01	0.42
1:B:140:LEU:HB2	1:B:147:THR:HB	2.01	0.42
1:B:326:ASN:O	1:B:327:ILE:HG12	2.18	0.42
1:C:92:SER:HB3	1:C:190:GLN:NE2	2.34	0.42
1:C:407:ARG:HE	1:C:430:ASP:CB	2.32	0.42
1:D:92:SER:HB3	1:D:190:GLN:NE2	2.34	0.42
1:D:306:VAL:O	1:D:313:THR:HG22	2.19	0.42
1:D:349:ASP:HB3	1:D:352:TYR:CD2	2.54	0.42
1:F:105:SER:HB3	1:F:178:MET:HB3	2.01	0.42
1:F:306:VAL:O	1:F:313:THR:HG22	2.19	0.42
1:G:277:ASN:OD1	1:G:278:THR:HG23	2.19	0.42
1:H:326:ASN:O	1:H:327:ILE:HG12	2.18	0.42
1:H:341:PRO:HG2	1:H:352:TYR:HD1	1.84	0.42
1:I:306:VAL:O	1:I:313:THR:HG22	2.19	0.42
1:I:366:ASP:HA	1:I:367:GLY:HA2	1.77	0.42
1:J:58:LYS:HG2	1:J:475:GLU:HG3	2.00	0.42
1:K:87:SER:HB2	1:K:198:HIS:HB3	2.00	0.42
1:K:92:SER:HB3	1:K:190:GLN:NE2	2.34	0.42
1:K:313:THR:OG1	1:8:270:GLN:OE1	2.37	0.42
1:K:508:ASN:HB2	1:K:509:PRO:HD2	2.01	0.42
1:L:407:ARG:HE	1:L:430:ASP:CB	2.32	0.42
1:N:270:GLN:OE1	1:P:313:THR:OG1	2.36	0.42
1:N:497:LEU:HD13	1:O:492:ARG:HG3	2.00	0.42
1:O:140:LEU:O	1:O:146:VAL:HA	2.19	0.42
1:O:277:ASN:OD1	1:O:278:THR:HG23	2.19	0.42
1:P:86:LYS:HD2	1:P:86:LYS:HA	1.78	0.42
1:P:172:PRO:HB3	1:P:415:PRO:HG3	2.01	0.42
1:P:306:VAL:O	1:P:313:THR:HG22	2.19	0.42
1:Q:515:LYS:HB3	1:Q:516:ASN:CB	2.47	0.42
1:S:139:ILE:HD11	1:S:467:TYR:CD2	2.50	0.42
1:S:270:GLN:OE1	1:U:313:THR:OG1	2.36	0.42
1:T:326:ASN:O	1:T:327:ILE:HG12	2.18	0.42
1:U:277:ASN:OD1	1:U:278:THR:HG23	2.19	0.42
1:V:505:ASP:N	1:V:505:ASP:OD1	2.52	0.42
1:Y:505:ASP:N	1:Y:505:ASP:OD1	2.52	0.42
1:Z:105:SER:HB3	1:Z:178:MET:HB3	2.01	0.42
1:Z:262:PRO:HG2	1:x:90:CYS:HB2	2.01	0.42
1:Z:305:ARG:HD2	1:w:271:TYR:O	2.19	0.42
1:Z:313:THR:OG1	1:w:270:GLN:OE1	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:270:GLN:OE1	1:8:313:THR:OG1	2.36	0.42
1:2:349:ASP:HB3	1:2:352:TYR:CD2	2.54	0.42
1:2:496:ALA:HA	1:2:499:LEU:HG	2.01	0.42
1:3:140:LEU:HB2	1:3:147:THR:HB	2.01	0.42
1:4:306:VAL:O	1:4:313:THR:HG22	2.19	0.42
1:5:505:ASP:N	1:5:505:ASP:OD1	2.52	0.42
1:6:90:CYS:HB2	1:a:262:PRO:HG2	2.01	0.42
1:6:313:THR:OG1	1:a:270:GLN:OE1	2.38	0.42
1:b:41:THR:HG21	1:b:235:SER:CB	2.46	0.42
1:b:306:VAL:O	1:b:313:THR:HG22	2.19	0.42
1:b:515:LYS:HB3	1:b:516:ASN:CB	2.47	0.42
1:d:349:ASP:HB3	1:d:352:TYR:CD2	2.54	0.42
1:e:140:LEU:O	1:e:146:VAL:HA	2.19	0.42
1:f:275:ASN:CB	1:f:276:GLY:HA3	2.41	0.42
1:f:349:ASP:HB3	1:f:352:TYR:CD2	2.54	0.42
1:f:378:LEU:HD13	1:f:378:LEU:HA	1.90	0.42
1:i:90:CYS:SG	1:i:91:VAL:N	2.79	0.42
1:i:507:ILE:HG23	1:i:508:ASN:N	2.23	0.42
1:j:58:LYS:HG2	1:j:475:GLU:HG3	2.00	0.42
1:j:277:ASN:OD1	1:j:278:THR:HG23	2.19	0.42
1:j:326:ASN:O	1:j:327:ILE:HG12	2.18	0.42
1:k:270:GLN:OE1	1:l:313:THR:OG1	2.36	0.42
1:l:476:ILE:HD13	1:l:476:ILE:HG21	1.83	0.42
1:m:172:PRO:HB3	1:m:415:PRO:HG3	2.01	0.42
1:m:277:ASN:OD1	1:m:278:THR:HG23	2.19	0.42
1:n:270:GLN:OE1	1:o:313:THR:OG1	2.37	0.42
1:n:349:ASP:HB3	1:n:352:TYR:CD2	2.54	0.42
1:o:306:VAL:O	1:o:313:THR:HG22	2.19	0.42
1:p:92:SER:HB3	1:p:190:GLN:NE2	2.34	0.42
1:r:172:PRO:HB3	1:r:415:PRO:HG3	2.01	0.42
1:r:277:ASN:OD1	1:r:278:THR:HG23	2.19	0.42
1:r:496:ALA:HA	1:r:499:LEU:HG	2.01	0.42
1:u:378:LEU:HD13	1:u:378:LEU:HA	1.90	0.42
1:v:105:SER:HB3	1:v:178:MET:HB3	2.01	0.42
1:x:172:PRO:HB3	1:x:415:PRO:HG3	2.01	0.42
1:x:505:ASP:N	1:x:505:ASP:OD1	2.52	0.42
1:y:90:CYS:HB2	1:7:262:PRO:HG2	2.01	0.42
1:y:172:PRO:HB3	1:y:415:PRO:HG3	2.01	0.42
1:y:277:ASN:OD1	1:y:278:THR:HG23	2.19	0.42
1:7:341:PRO:HG2	1:7:352:TYR:HD1	1.84	0.42
1:A:133:ASN:HD21	1:E:229:VAL:HG21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:THR:HG22	1:A:391:TYR:N	2.32	0.42
1:B:229:VAL:HG21	1:C:133:ASN:HD21	1.84	0.42
1:C:87:SER:HB2	1:C:198:HIS:HB3	2.00	0.42
1:C:305:ARG:HD2	1:M:271:TYR:O	2.19	0.42
1:C:306:VAL:O	1:C:313:THR:HG22	2.19	0.42
1:C:505:ASP:N	1:C:505:ASP:OD1	2.52	0.42
1:D:41:THR:HG21	1:D:235:SER:CB	2.46	0.42
1:D:86:LYS:HA	1:D:86:LYS:HD2	1.78	0.42
1:D:140:LEU:O	1:D:146:VAL:HA	2.19	0.42
1:D:508:ASN:HB2	1:D:509:PRO:HD2	2.01	0.42
1:H:140:LEU:HB2	1:H:147:THR:HB	2.01	0.42
1:H:262:PRO:HG2	1:W:90:CYS:HB2	2.01	0.42
1:H:505:ASP:N	1:H:505:ASP:OD1	2.52	0.42
1:I:515:LYS:HB3	1:I:516:ASN:CB	2.47	0.42
1:J:105:SER:HB3	1:J:178:MET:HB3	2.01	0.42
1:J:271:TYR:O	1:L:305:ARG:HD2	2.19	0.42
1:L:326:ASN:O	1:L:327:ILE:HG12	2.18	0.42
1:M:229:VAL:HG21	1:3:133:ASN:HD21	1.84	0.42
1:N:92:SER:HB3	1:N:190:GLN:NE2	2.35	0.42
1:N:326:ASN:O	1:N:327:ILE:HG12	2.18	0.42
1:O:270:GLN:OE1	1:g:313:THR:OG1	2.38	0.42
1:O:496:ALA:HA	1:O:499:LEU:HG	2.01	0.42
1:Q:105:SER:HB3	1:Q:178:MET:HB3	2.01	0.42
1:R:139:ILE:HD11	1:R:467:TYR:CD2	2.50	0.42
1:R:505:ASP:OD1	1:R:505:ASP:N	2.52	0.42
1:S:271:TYR:O	1:U:305:ARG:HD2	2.19	0.42
1:V:229:VAL:HG21	1:W:133:ASN:HD21	1.84	0.42
1:V:306:VAL:O	1:V:313:THR:HG22	2.19	0.42
1:W:277:ASN:OD1	1:W:278:THR:HG23	2.19	0.42
1:Z:476:ILE:HD13	1:Z:476:ILE:HG21	1.83	0.42
1:1:172:PRO:HB3	1:1:415:PRO:HG3	2.01	0.42
1:2:277:ASN:OD1	1:2:278:THR:HG23	2.19	0.42
1:3:92:SER:HB3	1:3:190:GLN:NE2	2.34	0.42
1:3:306:VAL:O	1:3:313:THR:HG22	2.19	0.42
1:4:270:GLN:OE1	1:f:313:THR:OG1	2.37	0.42
1:5:140:LEU:HB2	1:5:147:THR:HB	2.01	0.42
1:6:92:SER:HB3	1:6:190:GLN:NE2	2.34	0.42
1:6:271:TYR:O	1:b:305:ARG:HD2	2.19	0.42
1:6:277:ASN:OD1	1:6:278:THR:HG23	2.19	0.42
1:a:306:VAL:O	1:a:313:THR:HG22	2.19	0.42
1:a:390:THR:HG22	1:a:391:TYR:N	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:508:ASN:HB2	1:a:509:PRO:HD2	2.01	0.42
1:c:105:SER:HB3	1:c:178:MET:HB3	2.01	0.42
1:c:140:LEU:O	1:c:146:VAL:HA	2.19	0.42
1:e:229:VAL:HG21	1:q:133:ASN:HD21	1.84	0.42
1:f:92:SER:HB3	1:f:190:GLN:NE2	2.34	0.42
1:g:41:THR:HG21	1:g:235:SER:CB	2.46	0.42
1:g:140:LEU:O	1:g:146:VAL:HA	2.19	0.42
1:g:306:VAL:O	1:g:313:THR:HG22	2.19	0.42
1:g:515:LYS:HB3	1:g:516:ASN:CB	2.47	0.42
1:i:133:ASN:HD21	1:7:229:VAL:HG21	1.84	0.42
1:i:497:LEU:HD13	1:z:492:ARG:HG3	2.00	0.42
1:j:172:PRO:HB3	1:j:415:PRO:HG3	2.01	0.42
1:j:229:VAL:HG21	1:z:133:ASN:HD21	1.84	0.42
1:k:92:SER:HB3	1:k:190:GLN:NE2	2.34	0.42
1:l:41:THR:HG21	1:l:235:SER:CB	2.46	0.42
1:l:275:ASN:HB3	1:l:276:GLY:CA	2.45	0.42
1:n:326:ASN:O	1:n:327:ILE:HG12	2.18	0.42
1:o:105:SER:HB3	1:o:178:MET:HB3	2.01	0.42
1:o:140:LEU:O	1:o:146:VAL:HA	2.19	0.42
1:o:172:PRO:HB3	1:o:415:PRO:HG3	2.01	0.42
1:p:41:THR:HG21	1:p:235:SER:CB	2.46	0.42
1:p:87:SER:HB2	1:p:198:HIS:HB3	2.00	0.42
1:p:140:LEU:O	1:p:146:VAL:HA	2.19	0.42
1:p:349:ASP:HB3	1:p:352:TYR:CD2	2.54	0.42
1:q:140:LEU:HB2	1:q:147:THR:HB	2.01	0.42
1:q:305:ARG:HD2	1:s:271:TYR:O	2.19	0.42
1:q:407:ARG:HE	1:q:430:ASP:CB	2.32	0.42
1:t:105:SER:HB3	1:t:178:MET:HB3	2.01	0.42
1:t:275:ASN:CB	1:t:276:GLY:HA3	2.41	0.42
1:t:306:VAL:O	1:t:313:THR:HG22	2.19	0.42
1:t:366:ASP:HA	1:t:367:GLY:HA2	1.77	0.42
1:u:140:LEU:HB2	1:u:147:THR:HB	2.01	0.42
1:w:90:CYS:HB2	1:x:262:PRO:HG2	2.01	0.42
1:x:139:ILE:HD11	1:x:467:TYR:CD2	2.50	0.42
1:y:92:SER:HB3	1:y:190:GLN:NE2	2.34	0.42
1:y:496:ALA:HA	1:y:499:LEU:HG	2.01	0.42
1:y:507:ILE:CG2	1:y:508:ASN:H	2.22	0.42
1:z:140:LEU:O	1:z:146:VAL:HA	2.19	0.42
1:8:306:VAL:O	1:8:313:THR:HG22	2.19	0.42
1:8:508:ASN:HB2	1:8:509:PRO:HD2	2.01	0.42
1:A:306:VAL:O	1:A:313:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:495:THR:HG23	1:F:493:ARG:H	1.84	0.42
1:C:107:PHE:C	1:C:412:ARG:HH12	2.19	0.42
1:D:90:CYS:HB2	1:P:262:PRO:HG2	2.01	0.42
1:D:341:PRO:HG2	1:D:352:TYR:HD1	1.84	0.42
1:E:87:SER:HB2	1:E:198:HIS:HB3	2.00	0.42
1:E:140:LEU:HB2	1:E:147:THR:HB	2.01	0.42
1:F:133:ASN:HD21	1:G:229:VAL:HG21	1.84	0.42
1:G:140:LEU:O	1:G:146:VAL:HA	2.19	0.42
1:H:107:PHE:C	1:H:412:ARG:HH12	2.19	0.42
1:H:305:ARG:HD2	1:Y:271:TYR:O	2.19	0.42
1:I:41:THR:HG21	1:I:235:SER:CB	2.46	0.42
1:J:262:PRO:HG2	1:L:90:CYS:HB2	2.01	0.42
1:J:306:VAL:O	1:J:313:THR:HG22	2.19	0.42
1:M:507:ILE:HG23	1:M:508:ASN:N	2.23	0.42
1:O:219:PHE:HB2	1:4:512:HIS:CD2	2.55	0.42
1:P:133:ASN:HD21	1:Q:229:VAL:HG21	1.84	0.42
1:R:90:CYS:HB2	1:U:262:PRO:HG2	2.01	0.42
1:T:270:GLN:OE1	1:4:313:THR:OG1	2.36	0.42
1:X:277:ASN:OD1	1:X:278:THR:HG23	2.19	0.42
1:Y:306:VAL:O	1:Y:313:THR:HG22	2.19	0.42
1:Z:496:ALA:HA	1:Z:499:LEU:HG	2.01	0.42
1:1:326:ASN:O	1:1:327:ILE:HG12	2.18	0.42
1:2:87:SER:HB2	1:2:198:HIS:HB3	2.00	0.42
1:2:306:VAL:O	1:2:313:THR:HG22	2.19	0.42
1:2:508:ASN:HB2	1:2:509:PRO:HD2	2.01	0.42
1:3:507:ILE:HG23	1:3:508:ASN:N	2.23	0.42
1:4:508:ASN:HB2	1:4:509:PRO:HD2	2.01	0.42
1:6:140:LEU:O	1:6:146:VAL:HA	2.19	0.42
1:b:366:ASP:HA	1:b:367:GLY:HA2	1.77	0.42
1:c:58:LYS:HG2	1:c:475:GLU:HG3	2.00	0.42
1:c:271:TYR:O	1:d:305:ARG:HD2	2.19	0.42
1:d:326:ASN:O	1:d:327:ILE:HG12	2.18	0.42
1:f:87:SER:HB2	1:f:198:HIS:HB3	2.00	0.42
1:g:271:TYR:O	1:h:305:ARG:HD2	2.19	0.42
1:h:341:PRO:HG2	1:h:352:TYR:HD1	1.83	0.42
1:j:508:ASN:HB2	1:j:509:PRO:HD2	2.01	0.42
1:k:139:ILE:HD11	1:k:467:TYR:CD2	2.50	0.42
1:l:92:SER:HB3	1:l:190:GLN:NE2	2.34	0.42
1:l:271:TYR:O	1:m:305:ARG:HD2	2.19	0.42
1:m:140:LEU:O	1:m:146:VAL:HA	2.19	0.42
1:n:92:SER:HB3	1:n:190:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:140:LEU:O	1:n:146:VAL:HA	2.19	0.42
1:o:133:ASN:HD21	1:v:229:VAL:HG21	1.84	0.42
1:p:508:ASN:HB2	1:p:509:PRO:HD2	2.01	0.42
1:q:306:VAL:O	1:q:313:THR:HG22	2.19	0.42
1:q:349:ASP:HB3	1:q:352:TYR:CD2	2.54	0.42
1:r:306:VAL:O	1:r:313:THR:HG22	2.19	0.42
1:r:508:ASN:HB2	1:r:509:PRO:HD2	2.01	0.42
1:s:505:ASP:N	1:s:505:ASP:OD1	2.52	0.42
1:v:515:LYS:HB3	1:v:516:ASN:CB	2.47	0.42
1:w:139:ILE:HD11	1:w:467:TYR:CD2	2.50	0.42
1:x:277:ASN:OD1	1:x:278:THR:HG23	2.19	0.42
1:y:105:SER:HB3	1:y:178:MET:HB3	2.01	0.42
1:y:140:LEU:O	1:y:146:VAL:HA	2.19	0.42
1:z:92:SER:HB3	1:z:190:GLN:NE2	2.34	0.42
1:z:262:PRO:HG2	1:7:90:CYS:HB2	2.01	0.42
1:z:277:ASN:OD1	1:z:278:THR:HG23	2.19	0.42
1:z:306:VAL:O	1:z:313:THR:HG22	2.19	0.42
1:7:86:LYS:HA	1:7:86:LYS:HD2	1.78	0.42
1:7:140:LEU:O	1:7:146:VAL:HA	2.19	0.42
1:7:247:ILE:CG1	1:7:436:ILE:HD11	2.50	0.42
1:A:105:SER:HB3	1:A:178:MET:HB3	2.01	0.42
1:B:140:LEU:O	1:B:146:VAL:HA	2.19	0.42
1:D:496:ALA:HA	1:D:499:LEU:HG	2.01	0.42
1:E:247:ILE:CG1	1:E:436:ILE:HD11	2.50	0.42
1:E:341:PRO:HG2	1:E:352:TYR:HD1	1.84	0.42
1:F:92:SER:HB3	1:F:190:GLN:NE2	2.34	0.42
1:F:182:PRO:HD2	1:G:221:MET:HE1	2.01	0.42
1:G:46:GLY:H	1:W:226:ASP:HB3	1.85	0.42
1:G:92:SER:HB3	1:G:190:GLN:NE2	2.35	0.42
1:H:496:ALA:HA	1:H:499:LEU:HG	2.01	0.42
1:J:92:SER:HB3	1:J:190:GLN:NE2	2.34	0.42
1:J:133:ASN:HD21	1:1:229:VAL:HG21	1.84	0.42
1:K:275:ASN:CB	1:K:276:GLY:HA3	2.41	0.42
1:L:277:ASN:OD1	1:L:278:THR:HG23	2.19	0.42
1:L:349:ASP:HB3	1:L:352:TYR:CD2	2.54	0.42
1:M:247:ILE:CG1	1:M:436:ILE:HD11	2.50	0.42
1:M:341:PRO:HG2	1:M:352:TYR:HD1	1.84	0.42
1:M:505:ASP:N	1:M:505:ASP:OD1	2.52	0.42
1:N:262:PRO:HG2	1:P:90:CYS:HB2	2.01	0.42
1:O:105:SER:HB3	1:O:178:MET:HB3	2.01	0.42
1:P:105:SER:HB3	1:P:178:MET:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:140:LEU:O	1:P:146:VAL:HA	2.19	0.42
1:P:277:ASN:OD1	1:P:278:THR:HG23	2.19	0.42
1:Q:399:MET:HE2	1:Q:428:THR:HG22	2.02	0.42
1:R:140:LEU:HB2	1:R:147:THR:HB	2.01	0.42
1:R:262:PRO:HG2	1:S:90:CYS:HB2	2.01	0.42
1:R:277:ASN:OD1	1:R:278:THR:HG23	2.19	0.42
1:S:92:SER:HB3	1:S:190:GLN:NE2	2.34	0.42
1:T:172:PRO:HB3	1:T:415:PRO:HG3	2.01	0.42
1:T:407:ARG:HE	1:T:430:ASP:CB	2.32	0.42
1:W:140:LEU:O	1:W:146:VAL:HA	2.19	0.42
1:W:140:LEU:HB2	1:W:147:THR:HB	2.01	0.42
1:X:140:LEU:HB2	1:X:147:THR:HB	2.01	0.42
1:Y:92:SER:HB3	1:Y:190:GLN:NE2	2.34	0.42
1:Y:140:LEU:O	1:Y:146:VAL:HA	2.19	0.42
1:1:247:ILE:CG1	1:1:436:ILE:HD11	2.50	0.42
1:3:86:LYS:HD2	1:3:86:LYS:HA	1.78	0.42
1:4:172:PRO:HB3	1:4:415:PRO:HG3	2.01	0.42
1:5:275:ASN:CB	1:5:276:GLY:HA3	2.41	0.42
1:5:326:ASN:O	1:5:327:ILE:HG12	2.18	0.42
1:a:349:ASP:HB3	1:a:352:TYR:CD2	2.54	0.42
1:c:86:LYS:HD2	1:c:86:LYS:HA	1.78	0.42
1:c:92:SER:HB3	1:c:190:GLN:NE2	2.34	0.42
1:c:262:PRO:HG2	1:d:90:CYS:HB2	2.01	0.42
1:c:306:VAL:O	1:c:313:THR:HG22	2.19	0.42
1:d:262:PRO:HG2	1:e:90:CYS:HB2	2.01	0.42
1:e:366:ASP:HA	1:e:367:GLY:HA2	1.77	0.42
1:e:399:MET:HE2	1:e:428:THR:HG22	2.02	0.42
1:g:92:SER:HB3	1:g:190:GLN:NE2	2.34	0.42
1:g:247:ILE:CG1	1:g:436:ILE:HD11	2.50	0.42
1:g:277:ASN:OD1	1:g:278:THR:HG23	2.19	0.42
1:h:247:ILE:CG1	1:h:436:ILE:HD11	2.50	0.42
1:i:92:SER:HB3	1:i:190:GLN:NE2	2.34	0.42
1:i:271:TYR:O	1:j:305:ARG:HD2	2.19	0.42
1:i:275:ASN:HB3	1:i:276:GLY:CA	2.45	0.42
1:j:140:LEU:O	1:j:146:VAL:HA	2.19	0.42
1:j:496:ALA:HA	1:j:499:LEU:HG	2.01	0.42
1:k:133:ASN:HD21	1:s:229:VAL:HG21	1.84	0.42
1:k:140:LEU:O	1:k:146:VAL:HA	2.19	0.42
1:k:306:VAL:O	1:k:313:THR:HG22	2.19	0.42
1:m:496:ALA:HA	1:m:499:LEU:HG	2.01	0.42
1:n:247:ILE:CG1	1:n:436:ILE:HD11	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:229:VAL:HG21	1:u:133:ASN:HD21	1.84	0.42
1:p:230:LEU:HD22	1:p:234:GLU:HB3	2.02	0.42
1:p:306:VAL:O	1:p:313:THR:HG22	2.19	0.42
1:p:496:ALA:HA	1:p:499:LEU:HG	2.01	0.42
1:q:505:ASP:N	1:q:505:ASP:OD1	2.52	0.42
1:q:515:LYS:HB3	1:q:516:ASN:CB	2.47	0.42
1:r:87:SER:HB2	1:r:198:HIS:HB3	2.00	0.42
1:r:92:SER:HB3	1:r:190:GLN:NE2	2.34	0.42
1:s:140:LEU:HB2	1:s:147:THR:HB	2.01	0.42
1:t:230:LEU:HD22	1:t:234:GLU:HB3	2.02	0.42
1:t:341:PRO:HG2	1:t:352:TYR:HD1	1.84	0.42
1:u:341:PRO:HG2	1:u:352:TYR:HD1	1.84	0.42
1:v:277:ASN:OD1	1:v:278:THR:HG23	2.19	0.42
1:x:105:SER:HB3	1:x:178:MET:HB3	2.01	0.42
1:z:407:ARG:HE	1:z:430:ASP:CB	2.32	0.42
1:z:515:LYS:HB3	1:z:516:ASN:CB	2.47	0.42
1:8:172:PRO:HB3	1:8:415:PRO:HG3	2.01	0.42
1:A:349:ASP:HB3	1:A:352:TYR:CD2	2.54	0.42
1:A:399:MET:HE2	1:A:428:THR:HG22	2.02	0.42
1:B:90:CYS:HB2	1:L:262:PRO:HG2	2.01	0.42
1:B:507:ILE:HG23	1:B:508:ASN:N	2.23	0.42
1:C:41:THR:HG21	1:C:235:SER:CB	2.46	0.42
1:C:247:ILE:CG1	1:C:436:ILE:HD11	2.50	0.42
1:C:349:ASP:HB3	1:C:352:TYR:CD2	2.54	0.42
1:C:515:LYS:HB3	1:C:516:ASN:CB	2.47	0.42
1:D:230:LEU:HD22	1:D:234:GLU:HB3	2.02	0.42
1:F:230:LEU:HD22	1:F:234:GLU:HB3	2.02	0.42
1:F:341:PRO:HG2	1:F:352:TYR:HD1	1.84	0.42
1:J:247:ILE:CG1	1:J:436:ILE:HD11	2.50	0.42
1:K:140:LEU:HB2	1:K:147:THR:HB	2.01	0.42
1:M:140:LEU:HB2	1:M:147:THR:HB	2.01	0.42
1:M:306:VAL:O	1:M:313:THR:HG22	2.19	0.42
1:N:247:ILE:CG1	1:N:436:ILE:HD11	2.50	0.42
1:Q:140:LEU:HB2	1:Q:147:THR:HB	2.01	0.42
1:R:105:SER:HB3	1:R:178:MET:HB3	2.01	0.42
1:S:507:ILE:HG23	1:S:508:ASN:N	2.23	0.42
1:T:229:VAL:HG21	1:c:133:ASN:HD21	1.84	0.42
1:T:247:ILE:CG1	1:T:436:ILE:HD11	2.50	0.42
1:T:262:PRO:HG2	1:4:90:CYS:HB2	2.01	0.42
1:U:140:LEU:HB2	1:U:147:THR:HB	2.01	0.42
1:V:92:SER:HB3	1:V:190:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:271:TYR:O	1:5:305:ARG:HD2	2.19	0.42
1:W:306:VAL:O	1:W:313:THR:HG22	2.19	0.42
1:W:399:MET:HE2	1:W:428:THR:HG22	2.02	0.42
1:X:133:ASN:HD21	1:Y:229:VAL:HG21	1.84	0.42
1:X:247:ILE:CG1	1:X:436:ILE:HD11	2.50	0.42
1:X:306:VAL:O	1:X:313:THR:HG22	2.19	0.42
1:X:399:MET:HE2	1:X:428:THR:HG22	2.02	0.42
1:Z:140:LEU:HB2	1:Z:147:THR:HB	2.01	0.42
1:1:262:PRO:HG2	1:8:90:CYS:HB2	2.01	0.42
1:1:407:ARG:HE	1:1:430:ASP:CB	2.32	0.42
1:2:92:SER:HB3	1:2:190:GLN:NE2	2.34	0.42
1:2:230:LEU:HD22	1:2:234:GLU:HB3	2.02	0.42
1:3:139:ILE:HD11	1:3:467:TYR:CD2	2.50	0.42
1:3:140:LEU:O	1:3:146:VAL:HA	2.19	0.42
1:5:496:ALA:HA	1:5:499:LEU:HG	2.01	0.42
1:6:306:VAL:O	1:6:313:THR:HG22	2.19	0.42
1:a:105:SER:HB3	1:a:178:MET:HB3	2.01	0.42
1:a:276:GLY:O	1:a:278:THR:OG1	2.24	0.42
1:a:407:ARG:HE	1:a:430:ASP:CB	2.32	0.42
1:a:495:THR:HG23	1:t:493:ARG:H	1.85	0.42
1:c:247:ILE:CG1	1:c:436:ILE:HD11	2.50	0.42
1:c:305:ARG:HD2	1:e:271:TYR:O	2.19	0.42
1:f:140:LEU:HB2	1:f:147:THR:HB	2.01	0.42
1:f:230:LEU:HD22	1:f:234:GLU:HB3	2.02	0.42
1:g:262:PRO:HG2	1:h:90:CYS:HB2	2.01	0.42
1:g:407:ARG:HE	1:g:430:ASP:CB	2.32	0.42
1:k:399:MET:HE2	1:k:428:THR:HG22	2.02	0.42
1:l:341:PRO:HG2	1:l:352:TYR:HD1	1.83	0.42
1:n:262:PRO:HG2	1:o:90:CYS:HB2	2.01	0.42
1:o:277:ASN:OD1	1:o:278:THR:HG23	2.19	0.42
1:p:341:PRO:HG2	1:p:352:TYR:HD1	1.84	0.42
1:q:247:ILE:CG1	1:q:436:ILE:HD11	2.50	0.42
1:r:230:LEU:HD22	1:r:234:GLU:HB3	2.02	0.42
1:s:306:VAL:O	1:s:313:THR:HG22	2.19	0.42
1:s:341:PRO:HG2	1:s:352:TYR:HD1	1.84	0.42
1:t:140:LEU:O	1:t:146:VAL:HA	2.19	0.42
1:u:87:SER:HB2	1:u:198:HIS:HB3	2.00	0.42
1:u:247:ILE:CG1	1:u:436:ILE:HD11	2.50	0.42
1:v:140:LEU:HB2	1:v:147:THR:HB	2.01	0.42
1:v:399:MET:HE2	1:v:428:THR:HG22	2.02	0.42
1:w:92:SER:HB3	1:w:190:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:140:LEU:HB2	1:x:147:THR:HB	2.01	0.42
1:y:508:ASN:HB2	1:y:509:PRO:HD2	2.01	0.42
1:z:247:ILE:CG1	1:z:436:ILE:HD11	2.50	0.42
1:z:271:TYR:O	1:7:305:ARG:HD2	2.19	0.42
1:7:105:SER:HB3	1:7:178:MET:HB3	2.01	0.42
1:A:407:ARG:HE	1:A:430:ASP:CB	2.32	0.42
1:B:262:PRO:HG2	1:J:90:CYS:HB2	2.01	0.42
1:B:399:MET:HE2	1:B:428:THR:HG22	2.02	0.42
1:C:399:MET:HE2	1:C:428:THR:HG22	2.02	0.42
1:D:229:VAL:HG21	1:E:133:ASN:HD21	1.84	0.42
1:F:140:LEU:O	1:F:146:VAL:HA	2.19	0.42
1:F:275:ASN:CB	1:F:276:GLY:HA3	2.41	0.42
1:K:172:PRO:HB3	1:K:415:PRO:HG3	2.01	0.42
1:M:399:MET:HE2	1:M:428:THR:HG22	2.02	0.42
1:M:476:ILE:HD13	1:M:476:ILE:HG21	1.83	0.42
1:N:139:ILE:HD11	1:N:467:TYR:CD2	2.50	0.42
1:O:258:LEU:HD23	1:g:194:ILE:HG21	2.02	0.42
1:O:306:VAL:O	1:O:313:THR:HG22	2.19	0.42
1:O:505:ASP:OD1	1:O:505:ASP:N	2.52	0.42
1:O:508:ASN:HB2	1:O:509:PRO:HD2	2.01	0.42
1:Q:277:ASN:OD1	1:Q:278:THR:HG23	2.19	0.42
1:T:277:ASN:OD1	1:T:278:THR:HG23	2.19	0.42
1:U:476:ILE:HD13	1:U:476:ILE:HG21	1.83	0.42
1:U:496:ALA:HA	1:U:499:LEU:HG	2.01	0.42
1:V:140:LEU:O	1:V:146:VAL:HA	2.19	0.42
1:V:492:ARG:O	1:V:534:ASN:HB2	2.20	0.42
1:W:92:SER:HB3	1:W:190:GLN:NE2	2.34	0.42
1:W:247:ILE:CG1	1:W:436:ILE:HD11	2.50	0.42
1:X:92:SER:HB3	1:X:190:GLN:NE2	2.34	0.42
1:X:140:LEU:O	1:X:146:VAL:HA	2.19	0.42
1:Y:492:ARG:O	1:Y:534:ASN:HB2	2.20	0.42
1:3:399:MET:HE2	1:3:428:THR:HG22	2.02	0.42
1:d:277:ASN:OD1	1:d:278:THR:HG23	2.19	0.42
1:e:172:PRO:HB3	1:e:415:PRO:HG3	2.01	0.42
1:f:172:PRO:HB3	1:f:415:PRO:HG3	2.01	0.42
1:g:86:LYS:HD2	1:g:86:LYS:HA	1.78	0.42
1:g:230:LEU:HD22	1:g:234:GLU:HB3	2.02	0.42
1:h:105:SER:HB3	1:h:178:MET:HB3	2.01	0.42
1:h:140:LEU:O	1:h:146:VAL:HA	2.19	0.42
1:i:277:ASN:OD1	1:i:278:THR:HG23	2.19	0.42
1:i:493:ARG:H	1:z:495:THR:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:105:SER:HB3	1:j:178:MET:HB3	2.01	0.42
1:m:407:ARG:HE	1:m:430:ASP:CB	2.32	0.42
1:m:508:ASN:HB2	1:m:509:PRO:HD2	2.01	0.42
1:n:496:ALA:HA	1:n:499:LEU:HG	2.01	0.42
1:o:86:LYS:HD2	1:o:86:LYS:HA	1.78	0.42
1:q:399:MET:HE2	1:q:428:THR:HG22	2.02	0.42
1:s:247:ILE:CG1	1:s:436:ILE:HD11	2.50	0.42
1:u:496:ALA:HA	1:u:499:LEU:HG	2.01	0.42
1:w:508:ASN:HB2	1:w:509:PRO:HD2	2.01	0.42
1:y:305:ARG:HD2	1:7:271:TYR:O	2.20	0.42
1:y:306:VAL:O	1:y:313:THR:HG22	2.19	0.42
1:z:230:LEU:HD22	1:z:234:GLU:HB3	2.02	0.42
1:A:92:SER:HB3	1:A:190:GLN:NE2	2.34	0.42
1:A:247:ILE:CG1	1:A:436:ILE:HD11	2.50	0.42
1:A:277:ASN:OD1	1:A:278:THR:HG23	2.19	0.42
1:B:92:SER:HB3	1:B:190:GLN:NE2	2.34	0.42
1:B:172:PRO:HB3	1:B:415:PRO:HG3	2.01	0.42
1:B:492:ARG:O	1:B:534:ASN:HB2	2.20	0.42
1:C:262:PRO:HG2	1:2:90:CYS:HB2	2.01	0.42
1:C:476:ILE:HD13	1:C:476:ILE:HG21	1.83	0.42
1:D:172:PRO:HB3	1:D:415:PRO:HG3	2.01	0.42
1:D:305:ARG:HD2	1:P:271:TYR:O	2.19	0.42
1:E:90:CYS:HB2	1:F:262:PRO:HG2	2.00	0.42
1:E:305:ARG:HD2	1:F:271:TYR:O	2.19	0.42
1:E:378:LEU:HD13	1:E:378:LEU:HA	1.90	0.42
1:G:306:VAL:O	1:G:313:THR:HG22	2.19	0.42
1:I:92:SER:HB3	1:I:190:GLN:NE2	2.34	0.42
1:I:172:PRO:HB3	1:I:415:PRO:HG3	2.01	0.42
1:I:492:ARG:O	1:I:534:ASN:HB2	2.20	0.42
1:K:230:LEU:HD22	1:K:234:GLU:HB3	2.02	0.42
1:K:492:ARG:O	1:K:534:ASN:HB2	2.20	0.42
1:K:507:ILE:CG2	1:K:508:ASN:H	2.22	0.42
1:L:172:PRO:HB3	1:L:415:PRO:HG3	2.01	0.42
1:N:306:VAL:O	1:N:313:THR:HG22	2.19	0.42
1:O:194:ILE:HG21	1:h:258:LEU:HD23	2.02	0.42
1:O:271:TYR:O	1:g:305:ARG:HD2	2.19	0.42
1:O:399:MET:HE2	1:O:428:THR:HG22	2.02	0.42
1:S:172:PRO:HB3	1:S:415:PRO:HG3	2.01	0.42
1:S:366:ASP:HA	1:S:367:GLY:HA2	1.77	0.42
1:V:140:LEU:HB2	1:V:147:THR:HB	2.01	0.42
1:V:247:ILE:CG1	1:V:436:ILE:HD11	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:508:ASN:HB2	1:V:509:PRO:HD2	2.01	0.42
1:X:276:GLY:O	1:X:278:THR:OG1	2.24	0.42
1:Z:271:TYR:O	1:x:305:ARG:HD2	2.19	0.42
1:2:133:ASN:HD21	1:i:229:VAL:HG21	1.84	0.42
1:4:140:LEU:O	1:4:146:VAL:HA	2.19	0.42
1:a:172:PRO:HB3	1:a:415:PRO:HG3	2.01	0.42
1:a:247:ILE:CG1	1:a:436:ILE:HD11	2.50	0.42
1:a:399:MET:HE2	1:a:428:THR:HG22	2.02	0.42
1:b:492:ARG:O	1:b:534:ASN:HB2	2.20	0.42
1:c:90:CYS:HB2	1:e:262:PRO:HG2	2.01	0.42
1:d:172:PRO:HB3	1:d:415:PRO:HG3	2.01	0.42
1:e:92:SER:HB3	1:e:190:GLN:NE2	2.34	0.42
1:e:492:ARG:O	1:e:534:ASN:HB2	2.20	0.42
1:g:105:SER:HB3	1:g:178:MET:HB3	2.01	0.42
1:g:172:PRO:HB3	1:g:415:PRO:HG3	2.01	0.42
1:i:341:PRO:HG2	1:i:352:TYR:HD1	1.84	0.42
1:j:247:ILE:CG1	1:j:436:ILE:HD11	2.50	0.42
1:l:139:ILE:HD11	1:l:467:TYR:CD2	2.50	0.42
1:l:140:LEU:O	1:l:146:VAL:HA	2.19	0.42
1:l:229:VAL:HG21	1:r:133:ASN:HD21	1.84	0.42
1:l:247:ILE:CG1	1:l:436:ILE:HD11	2.50	0.42
1:l:277:ASN:OD1	1:l:278:THR:HG23	2.19	0.42
1:m:105:SER:HB3	1:m:178:MET:HB3	2.01	0.42
1:o:508:ASN:HB2	1:o:509:PRO:HD2	2.01	0.42
1:q:262:PRO:HG2	1:r:90:CYS:HB2	2.01	0.42
1:s:399:MET:HE2	1:s:428:THR:HG22	2.02	0.42
1:s:507:ILE:HG23	1:s:508:ASN:N	2.23	0.42
1:t:92:SER:HB3	1:t:190:GLN:NE2	2.35	0.42
1:t:496:ALA:HA	1:t:499:LEU:HG	2.01	0.42
1:v:247:ILE:CG1	1:v:436:ILE:HD11	2.50	0.42
1:w:107:PHE:C	1:w:412:ARG:HH12	2.19	0.42
1:y:107:PHE:C	1:y:412:ARG:HH12	2.19	0.42
1:y:399:MET:HE2	1:y:428:THR:HG22	2.02	0.42
1:z:172:PRO:HB3	1:z:415:PRO:HG3	2.01	0.42
1:7:399:MET:HE2	1:7:428:THR:HG22	2.02	0.42
1:8:140:LEU:O	1:8:146:VAL:HA	2.19	0.42
1:A:172:PRO:HB3	1:A:415:PRO:HG3	2.01	0.41
1:A:219:PHE:HB2	1:B:512:HIS:CD2	2.55	0.41
1:B:271:TYR:O	1:J:305:ARG:HD2	2.19	0.41
1:D:492:ARG:O	1:D:534:ASN:HB2	2.20	0.41
1:E:496:ALA:HA	1:E:499:LEU:HG	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:386:GLY:HA3	1:I:315:ALA:HA	2.01	0.41
1:G:492:ARG:O	1:G:534:ASN:HB2	2.20	0.41
1:H:306:VAL:O	1:H:313:THR:HG22	2.19	0.41
1:I:193:TYR:HH	1:I:220:PHE:H	1.68	0.41
1:K:140:LEU:O	1:K:146:VAL:HA	2.19	0.41
1:L:306:VAL:O	1:L:313:THR:HG22	2.19	0.41
1:M:246:TRP:HH2	1:M:479:GLU:HG2	1.85	0.41
1:N:496:ALA:HA	1:N:499:LEU:HG	2.01	0.41
1:P:476:ILE:HG21	1:P:476:ILE:HD13	1.83	0.41
1:Q:172:PRO:HB3	1:Q:415:PRO:HG3	2.01	0.41
1:Q:247:ILE:CG1	1:Q:436:ILE:HD11	2.50	0.41
1:S:492:ARG:O	1:S:534:ASN:HB2	2.20	0.41
1:S:508:ASN:HB2	1:S:509:PRO:HD2	2.01	0.41
1:U:247:ILE:CG1	1:U:436:ILE:HD11	2.50	0.41
1:W:244:CYS:SG	1:W:245:GLU:N	2.79	0.41
1:W:304:GLN:C	1:W:315:ALA:HB2	2.45	0.41
1:X:244:CYS:SG	1:X:245:GLU:N	2.79	0.41
1:X:304:GLN:C	1:X:315:ALA:HB2	2.45	0.41
1:Y:140:LEU:HB2	1:Y:147:THR:HB	2.01	0.41
1:Z:247:ILE:CG1	1:Z:436:ILE:HD11	2.50	0.41
1:1:277:ASN:OD1	1:1:278:THR:HG23	2.19	0.41
1:2:399:MET:HE2	1:2:428:THR:HG22	2.02	0.41
1:3:492:ARG:O	1:3:534:ASN:HB2	2.20	0.41
1:5:277:ASN:OD1	1:5:278:THR:HG23	2.19	0.41
1:5:407:ARG:HE	1:5:430:ASP:CB	2.32	0.41
1:a:92:SER:HB3	1:a:190:GLN:NE2	2.34	0.41
1:a:219:PHE:HB2	1:e:512:HIS:CD2	2.55	0.41
1:b:172:PRO:HB3	1:b:415:PRO:HG3	2.01	0.41
1:f:492:ARG:O	1:f:534:ASN:HB2	2.20	0.41
1:g:495:THR:HG23	1:l:493:ARG:H	1.85	0.41
1:i:140:LEU:O	1:i:146:VAL:HA	2.19	0.41
1:i:247:ILE:CG1	1:i:436:ILE:HD11	2.50	0.41
1:i:304:GLN:C	1:i:315:ALA:HB2	2.45	0.41
1:j:92:SER:HB3	1:j:190:GLN:NE2	2.34	0.41
1:j:407:ARG:HE	1:j:430:ASP:CB	2.32	0.41
1:j:505:ASP:OD1	1:j:505:ASP:N	2.52	0.41
1:l:508:ASN:HB2	1:l:509:PRO:HD2	2.01	0.41
1:m:247:ILE:CG1	1:m:436:ILE:HD11	2.50	0.41
1:n:139:ILE:HD11	1:n:467:TYR:CD2	2.50	0.41
1:n:306:VAL:O	1:n:313:THR:HG22	2.19	0.41
1:p:172:PRO:HB3	1:p:415:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:492:ARG:O	1:p:534:ASN:HB2	2.20	0.41
1:q:41:THR:HG21	1:q:235:SER:CB	2.46	0.41
1:s:172:PRO:HB3	1:s:415:PRO:HG3	2.01	0.41
1:v:172:PRO:HB3	1:v:415:PRO:HG3	2.01	0.41
1:w:140:LEU:O	1:w:146:VAL:HA	2.19	0.41
1:w:172:PRO:HB3	1:w:415:PRO:HG3	2.01	0.41
1:w:492:ARG:O	1:w:534:ASN:HB2	2.20	0.41
1:w:507:ILE:HG23	1:w:508:ASN:N	2.23	0.41
1:x:407:ARG:HE	1:x:430:ASP:CB	2.32	0.41
1:y:505:ASP:OD1	1:y:505:ASP:N	2.52	0.41
1:z:105:SER:HB3	1:z:178:MET:HB3	2.01	0.41
1:z:496:ALA:HA	1:z:499:LEU:HG	2.01	0.41
1:A:194:ILE:HG21	1:I:258:LEU:HD23	2.02	0.41
1:B:493:ARG:H	1:I:495:THR:HG23	1.85	0.41
1:D:277:ASN:OD1	1:D:278:THR:HG23	2.19	0.41
1:E:399:MET:HE2	1:E:428:THR:HG22	2.02	0.41
1:F:496:ALA:HA	1:F:499:LEU:HG	2.01	0.41
1:G:404:ILE:HG23	1:I:423:SER:OG	2.20	0.41
1:G:496:ALA:HA	1:G:499:LEU:HG	2.01	0.41
1:H:277:ASN:OD1	1:H:278:THR:HG23	2.19	0.41
1:H:407:ARG:HE	1:H:430:ASP:CB	2.32	0.41
1:I:247:ILE:CG1	1:I:436:ILE:HD11	2.50	0.41
1:M:172:PRO:HB3	1:M:415:PRO:HG3	2.01	0.41
1:M:492:ARG:O	1:M:534:ASN:HB2	2.20	0.41
1:O:182:PRO:C	1:O:184:GLN:N	2.78	0.41
1:P:516:ASN:CG	1:P:517:GLY:N	2.78	0.41
1:R:305:ARG:HD2	1:U:271:TYR:O	2.19	0.41
1:R:492:ARG:O	1:R:534:ASN:HB2	2.20	0.41
1:S:399:MET:HE2	1:S:428:THR:HG22	2.02	0.41
1:T:182:PRO:C	1:T:184:GLN:N	2.79	0.41
1:V:230:LEU:HD22	1:V:234:GLU:HB3	2.02	0.41
1:V:304:GLN:C	1:V:315:ALA:HB2	2.46	0.41
1:Y:247:ILE:CG1	1:Y:436:ILE:HD11	2.50	0.41
1:Y:304:GLN:C	1:Y:315:ALA:HB2	2.46	0.41
1:Y:496:ALA:HA	1:Y:499:LEU:HG	2.01	0.41
1:Z:172:PRO:HB3	1:Z:415:PRO:HG3	2.01	0.41
1:1:182:PRO:C	1:1:184:GLN:N	2.79	0.41
1:1:246:TRP:HH2	1:1:479:GLU:HG2	1.86	0.41
1:1:492:ARG:O	1:1:534:ASN:HB2	2.20	0.41
1:1:507:ILE:CG2	1:1:508:ASN:H	2.22	0.41
1:2:105:SER:HB3	1:2:178:MET:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:140:LEU:O	1:2:146:VAL:HA	2.19	0.41
1:2:366:ASP:HA	1:2:367:GLY:HA2	1.77	0.41
1:3:407:ARG:HE	1:3:430:ASP:CB	2.32	0.41
1:5:306:VAL:O	1:5:313:THR:HG22	2.19	0.41
1:5:515:LYS:HB3	1:5:516:ASN:CB	2.47	0.41
1:6:194:ILE:HG21	1:a:258:LEU:HD23	2.02	0.41
1:6:305:ARG:HD2	1:a:271:TYR:O	2.19	0.41
1:6:492:ARG:O	1:6:534:ASN:HB2	2.20	0.41
1:a:133:ASN:HD21	1:u:229:VAL:HG21	1.85	0.41
1:a:277:ASN:OD1	1:a:278:THR:HG23	2.19	0.41
1:b:92:SER:HB3	1:b:190:GLN:NE2	2.34	0.41
1:b:230:LEU:HD22	1:b:234:GLU:HB3	2.02	0.41
1:b:247:ILE:CG1	1:b:436:ILE:HD11	2.50	0.41
1:c:493:ARG:H	1:f:495:THR:HG23	1.86	0.41
1:f:105:SER:HB3	1:f:178:MET:HB3	2.01	0.41
1:g:496:ALA:HA	1:g:499:LEU:HG	2.01	0.41
1:h:246:TRP:HH2	1:h:479:GLU:HG2	1.85	0.41
1:h:399:MET:HE2	1:h:428:THR:HG22	2.02	0.41
1:h:496:ALA:HA	1:h:499:LEU:HG	2.01	0.41
1:i:139:ILE:HD11	1:i:467:TYR:CD2	2.50	0.41
1:i:492:ARG:O	1:i:534:ASN:HB2	2.20	0.41
1:i:508:ASN:HB2	1:i:509:PRO:HD2	2.01	0.41
1:j:73:TYR:CE1	1:j:93:THR:HG22	2.56	0.41
1:k:182:PRO:C	1:k:184:GLN:N	2.79	0.41
1:k:230:LEU:HD22	1:k:234:GLU:HB3	2.02	0.41
1:k:247:ILE:CG1	1:k:436:ILE:HD11	2.50	0.41
1:k:492:ARG:O	1:k:534:ASN:HB2	2.20	0.41
1:l:87:SER:HB2	1:l:198:HIS:HB3	2.00	0.41
1:l:105:SER:HB3	1:l:178:MET:HB3	2.01	0.41
1:l:304:GLN:C	1:l:315:ALA:HB2	2.46	0.41
1:l:492:ARG:O	1:l:534:ASN:HB2	2.20	0.41
1:m:73:TYR:CE1	1:m:93:THR:HG22	2.56	0.41
1:m:505:ASP:OD1	1:m:505:ASP:N	2.52	0.41
1:o:140:LEU:HB2	1:o:147:THR:HB	2.01	0.41
1:o:247:ILE:CG1	1:o:436:ILE:HD11	2.50	0.41
1:o:270:GLN:OE1	1:p:313:THR:OG1	2.36	0.41
1:o:271:TYR:O	1:p:305:ARG:HD2	2.19	0.41
1:p:86:LYS:HA	1:p:86:LYS:HD2	1.78	0.41
1:q:476:ILE:HD13	1:q:476:ILE:HG21	1.83	0.41
1:r:105:SER:HB3	1:r:178:MET:HB3	2.01	0.41
1:r:399:MET:HE2	1:r:428:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:492:ARG:O	1:s:534:ASN:HB2	2.20	0.41
1:t:139:ILE:HD11	1:t:467:TYR:CD2	2.50	0.41
1:t:271:TYR:O	1:u:305:ARG:HD2	2.19	0.41
1:u:172:PRO:HB3	1:u:415:PRO:HG3	2.01	0.41
1:u:306:VAL:O	1:u:313:THR:HG22	2.19	0.41
1:u:399:MET:HE2	1:u:428:THR:HG22	2.02	0.41
1:x:492:ARG:O	1:x:534:ASN:HB2	2.20	0.41
1:y:182:PRO:C	1:y:184:GLN:N	2.78	0.41
1:y:247:ILE:CG1	1:y:436:ILE:HD11	2.50	0.41
1:A:140:LEU:O	1:A:146:VAL:HA	2.19	0.41
1:C:304:GLN:C	1:C:315:ALA:HB2	2.46	0.41
1:D:246:TRP:HH2	1:D:479:GLU:HG2	1.86	0.41
1:D:304:GLN:C	1:D:315:ALA:HB2	2.46	0.41
1:D:313:THR:OG1	1:P:270:GLN:OE1	2.36	0.41
1:E:172:PRO:HB3	1:E:415:PRO:HG3	2.01	0.41
1:E:505:ASP:N	1:E:505:ASP:OD1	2.52	0.41
1:F:399:MET:HE2	1:F:428:THR:HG22	2.02	0.41
1:G:182:PRO:C	1:G:184:GLN:N	2.79	0.41
1:G:246:TRP:HH2	1:G:479:GLU:HG2	1.86	0.41
1:G:399:MET:HE2	1:G:428:THR:HG22	2.02	0.41
1:I:230:LEU:HD22	1:I:234:GLU:HB3	2.02	0.41
1:J:493:ARG:H	1:K:495:THR:HG23	1.86	0.41
1:J:516:ASN:CG	1:J:517:GLY:N	2.78	0.41
1:L:92:SER:HB3	1:L:190:GLN:NE2	2.35	0.41
1:L:140:LEU:O	1:L:146:VAL:HA	2.19	0.41
1:L:505:ASP:OD1	1:L:505:ASP:N	2.52	0.41
1:M:90:CYS:HB2	1:2:262:PRO:HG2	2.01	0.41
1:N:276:GLY:O	1:N:278:THR:OG1	2.24	0.41
1:O:247:ILE:CG1	1:O:436:ILE:HD11	2.50	0.41
1:P:140:LEU:HB2	1:P:147:THR:HB	2.01	0.41
1:P:230:LEU:HD22	1:P:234:GLU:HB3	2.02	0.41
1:P:247:ILE:CG1	1:P:436:ILE:HD11	2.50	0.41
1:P:508:ASN:HB2	1:P:509:PRO:HD2	2.01	0.41
1:Q:507:ILE:HG23	1:Q:508:ASN:N	2.23	0.41
1:R:230:LEU:HD22	1:R:234:GLU:HB3	2.02	0.41
1:R:304:GLN:C	1:R:315:ALA:HB2	2.46	0.41
1:R:407:ARG:HE	1:R:430:ASP:CB	2.32	0.41
1:S:140:LEU:O	1:S:146:VAL:HA	2.19	0.41
1:T:73:TYR:CE1	1:T:93:THR:HG22	2.56	0.41
1:T:105:SER:HB3	1:T:178:MET:HB3	2.01	0.41
1:T:246:TRP:HH2	1:T:479:GLU:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:492:ARG:O	1:T:534:ASN:HB2	2.20	0.41
1:U:246:TRP:HH2	1:U:479:GLU:HG2	1.86	0.41
1:V:305:ARG:HD2	1:X:271:TYR:O	2.19	0.41
1:Y:378:LEU:HD13	1:Y:378:LEU:HA	1.90	0.41
1:Y:508:ASN:HB2	1:Y:509:PRO:HD2	2.01	0.41
1:Z:246:TRP:HH2	1:Z:479:GLU:HG2	1.86	0.41
1:2:169:ALA:HB2	1:2:191:TYR:HE1	1.86	0.41
1:3:182:PRO:C	1:3:184:GLN:N	2.79	0.41
1:3:230:LEU:HD22	1:3:234:GLU:HB3	2.02	0.41
1:5:133:ASN:HD21	1:b:229:VAL:HG21	1.84	0.41
1:6:182:PRO:C	1:6:184:GLN:N	2.79	0.41
1:6:246:TRP:HH2	1:6:479:GLU:HG2	1.86	0.41
1:6:399:MET:HE2	1:6:428:THR:HG22	2.02	0.41
1:6:496:ALA:HA	1:6:499:LEU:HG	2.01	0.41
1:a:140:LEU:O	1:a:146:VAL:HA	2.19	0.41
1:a:140:LEU:HB2	1:a:147:THR:HB	2.01	0.41
1:b:341:PRO:HG2	1:b:352:TYR:HD1	1.84	0.41
1:d:271:TYR:O	1:e:305:ARG:HD2	2.19	0.41
1:d:306:VAL:O	1:d:313:THR:HG22	2.19	0.41
1:e:507:ILE:HG23	1:e:508:ASN:N	2.23	0.41
1:f:507:ILE:CG2	1:f:508:ASN:H	2.22	0.41
1:g:73:TYR:CE1	1:g:93:THR:HG22	2.56	0.41
1:h:139:ILE:HD11	1:h:467:TYR:CD2	2.50	0.41
1:h:508:ASN:HB2	1:h:509:PRO:HD2	2.01	0.41
1:i:105:SER:HB3	1:i:178:MET:HB3	2.01	0.41
1:i:172:PRO:HB3	1:i:415:PRO:HG3	2.01	0.41
1:i:246:TRP:HH2	1:i:479:GLU:HG2	1.86	0.41
1:j:304:GLN:C	1:j:315:ALA:HB2	2.46	0.41
1:j:366:ASP:HA	1:j:367:GLY:HA2	1.77	0.41
1:l:172:PRO:HB3	1:l:415:PRO:HG3	2.01	0.41
1:l:246:TRP:HH2	1:l:479:GLU:HG2	1.86	0.41
1:m:304:GLN:C	1:m:315:ALA:HB2	2.46	0.41
1:n:276:GLY:O	1:n:278:THR:OG1	2.24	0.41
1:n:505:ASP:OD1	1:n:505:ASP:N	2.52	0.41
1:o:73:TYR:CE1	1:o:93:THR:HG22	2.56	0.41
1:p:277:ASN:OD1	1:p:278:THR:HG23	2.19	0.41
1:p:304:GLN:C	1:p:315:ALA:HB2	2.45	0.41
1:p:507:ILE:HG23	1:p:508:ASN:N	2.23	0.41
1:q:304:GLN:C	1:q:315:ALA:HB2	2.46	0.41
1:r:516:ASN:CG	1:r:517:GLY:N	2.78	0.41
1:s:246:TRP:HH2	1:s:479:GLU:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:172:PRO:HB3	1:t:415:PRO:HG3	2.01	0.41
1:t:304:GLN:C	1:t:315:ALA:HB2	2.45	0.41
1:u:505:ASP:OD1	1:u:505:ASP:N	2.52	0.41
1:w:399:MET:HE2	1:w:428:THR:HG22	2.02	0.41
1:w:407:ARG:HE	1:w:430:ASP:CB	2.32	0.41
1:x:304:GLN:C	1:x:315:ALA:HB2	2.46	0.41
1:y:73:TYR:CE1	1:y:93:THR:HG22	2.56	0.41
1:y:271:TYR:O	1:z:305:ARG:HD2	2.19	0.41
1:z:73:TYR:CE1	1:z:93:THR:HG22	2.56	0.41
1:7:508:ASN:HB2	1:7:509:PRO:HD2	2.01	0.41
1:8:246:TRP:HH2	1:8:479:GLU:HG2	1.86	0.41
1:B:182:PRO:C	1:B:184:GLN:N	2.79	0.41
1:D:73:TYR:CE1	1:D:93:THR:HG22	2.56	0.41
1:E:306:VAL:O	1:E:313:THR:HG22	2.19	0.41
1:E:495:THR:HG23	1:P:493:ARG:H	1.86	0.41
1:F:172:PRO:HB3	1:F:415:PRO:HG3	2.01	0.41
1:F:304:GLN:C	1:F:315:ALA:HB2	2.46	0.41
1:G:87:SER:HB2	1:G:198:HIS:HB3	2.00	0.41
1:G:275:ASN:CB	1:G:276:GLY:HA3	2.41	0.41
1:H:219:PHE:HB2	1:Z:512:HIS:CD2	2.56	0.41
1:I:304:GLN:C	1:I:315:ALA:HB2	2.46	0.41
1:I:341:PRO:HG2	1:I:352:TYR:HD1	1.84	0.41
1:K:105:SER:HB3	1:K:178:MET:HB3	2.01	0.41
1:K:505:ASP:N	1:K:505:ASP:OD1	2.52	0.41
1:L:247:ILE:CG1	1:L:436:ILE:HD11	2.50	0.41
1:L:492:ARG:O	1:L:534:ASN:HB2	2.20	0.41
1:L:516:ASN:CG	1:L:517:GLY:N	2.78	0.41
1:N:399:MET:HE2	1:N:428:THR:HG22	2.02	0.41
1:N:505:ASP:OD1	1:N:505:ASP:N	2.52	0.41
1:O:73:TYR:CE1	1:O:93:THR:HG22	2.56	0.41
1:O:107:PHE:C	1:O:412:ARG:HH12	2.19	0.41
1:P:73:TYR:CE1	1:P:93:THR:HG22	2.56	0.41
1:Q:495:THR:HG23	1:R:493:ARG:H	1.86	0.41
1:R:516:ASN:CG	1:R:517:GLY:N	2.78	0.41
1:S:247:ILE:CG1	1:S:436:ILE:HD11	2.50	0.41
1:S:505:ASP:N	1:S:505:ASP:OD1	2.52	0.41
1:T:194:ILE:HG21	1:f:258:LEU:HD23	2.03	0.41
1:U:172:PRO:HB3	1:U:415:PRO:HG3	2.01	0.41
1:U:182:PRO:C	1:U:184:GLN:N	2.78	0.41
1:V:496:ALA:HA	1:V:499:LEU:HG	2.01	0.41
1:Y:230:LEU:HD22	1:Y:234:GLU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:366:ASP:HA	1:Y:367:GLY:HA2	1.77	0.41
1:1:73:TYR:CE1	1:1:93:THR:HG22	2.56	0.41
1:2:492:ARG:O	1:2:534:ASN:HB2	2.20	0.41
1:2:493:ARG:H	1:3:495:THR:HG23	1.86	0.41
1:2:495:THR:HG23	1:3:493:ARG:H	1.85	0.41
1:2:516:ASN:CG	1:2:517:GLY:N	2.78	0.41
1:3:107:PHE:C	1:3:412:ARG:HH12	2.19	0.41
1:3:172:PRO:HB3	1:3:415:PRO:HG3	2.01	0.41
1:3:194:ILE:HG21	1:j:258:LEU:HD23	2.03	0.41
1:3:247:ILE:CG1	1:3:436:ILE:HD11	2.50	0.41
1:4:246:TRP:HH2	1:4:479:GLU:HG2	1.86	0.41
1:6:87:SER:HB2	1:6:198:HIS:HB3	2.00	0.41
1:a:194:ILE:HG21	1:b:258:LEU:HD23	2.02	0.41
1:c:230:LEU:HD22	1:c:234:GLU:HB3	2.02	0.41
1:d:140:LEU:O	1:d:146:VAL:HA	2.19	0.41
1:d:247:ILE:CG1	1:d:436:ILE:HD11	2.50	0.41
1:d:493:ARG:H	1:q:495:THR:HG23	1.85	0.41
1:d:516:ASN:CG	1:d:517:GLY:N	2.78	0.41
1:e:182:PRO:C	1:e:184:GLN:N	2.79	0.41
1:f:140:LEU:O	1:f:146:VAL:HA	2.19	0.41
1:f:505:ASP:N	1:f:505:ASP:OD1	2.52	0.41
1:g:492:ARG:O	1:g:534:ASN:HB2	2.20	0.41
1:h:230:LEU:HD22	1:h:234:GLU:HB3	2.02	0.41
1:i:87:SER:HB2	1:i:198:HIS:HB3	2.00	0.41
1:k:172:PRO:HB3	1:k:415:PRO:HG3	2.01	0.41
1:k:493:ARG:H	1:r:495:THR:HG23	1.85	0.41
1:k:495:THR:HG23	1:r:493:ARG:H	1.86	0.41
1:l:51:THR:OG1	1:l:54:TYR:O	2.37	0.41
1:m:92:SER:HB3	1:m:190:GLN:NE2	2.34	0.41
1:n:41:THR:HG21	1:n:235:SER:CB	2.46	0.41
1:n:399:MET:HE2	1:n:428:THR:HG22	2.02	0.41
1:o:230:LEU:HD22	1:o:234:GLU:HB3	2.02	0.41
1:o:366:ASP:HA	1:o:367:GLY:HA2	1.77	0.41
1:o:493:ARG:H	1:u:495:THR:HG23	1.86	0.41
1:o:516:ASN:CG	1:o:517:GLY:N	2.78	0.41
1:p:73:TYR:CE1	1:p:93:THR:HG22	2.56	0.41
1:p:244:CYS:SG	1:p:436:ILE:HD13	2.61	0.41
1:p:246:TRP:HH2	1:p:479:GLU:HG2	1.86	0.41
1:q:140:LEU:O	1:q:146:VAL:HA	2.19	0.41
1:r:140:LEU:O	1:r:146:VAL:HA	2.19	0.41
1:r:262:PRO:HG2	1:s:90:CYS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:262:PRO:HG2	1:u:90:CYS:HB2	2.01	0.41
1:t:399:MET:HE2	1:t:428:THR:HG22	2.02	0.41
1:w:247:ILE:CG1	1:w:436:ILE:HD11	2.50	0.41
1:x:516:ASN:CG	1:x:517:GLY:N	2.78	0.41
1:y:194:ILE:HG21	1:7:258:LEU:HD23	2.03	0.41
1:y:304:GLN:C	1:y:315:ALA:HB2	2.46	0.41
1:z:492:ARG:O	1:z:534:ASN:HB2	2.20	0.41
1:7:230:LEU:HD22	1:7:234:GLU:HB3	2.02	0.41
1:7:495:THR:HG23	1:8:493:ARG:H	1.85	0.41
1:8:496:ALA:HA	1:8:499:LEU:HG	2.01	0.41
1:B:305:ARG:HD2	1:L:271:TYR:O	2.19	0.41
1:B:496:ALA:HA	1:B:499:LEU:HG	2.01	0.41
1:B:505:ASP:OD1	1:B:505:ASP:N	2.52	0.41
1:C:495:THR:HG23	1:L:493:ARG:H	1.85	0.41
1:D:194:ILE:HG21	1:P:258:LEU:HD23	2.03	0.41
1:D:244:CYS:SG	1:D:436:ILE:HD13	2.61	0.41
1:D:247:ILE:CG1	1:D:436:ILE:HD11	2.50	0.41
1:H:246:TRP:HH2	1:H:479:GLU:HG2	1.86	0.41
1:H:247:ILE:CG1	1:H:436:ILE:HD11	2.50	0.41
1:H:304:GLN:C	1:H:315:ALA:HB2	2.46	0.41
1:I:244:CYS:SG	1:I:436:ILE:HD13	2.61	0.41
1:J:496:ALA:HA	1:J:499:LEU:HG	2.01	0.41
1:K:258:LEU:HD23	1:1:194:ILE:HG21	2.03	0.41
1:K:399:MET:HE2	1:K:428:THR:HG22	2.02	0.41
1:M:230:LEU:HD22	1:M:234:GLU:HB3	2.02	0.41
1:O:229:VAL:HG22	1:4:43:GLY:HA2	2.03	0.41
1:O:244:CYS:SG	1:O:436:ILE:HD13	2.61	0.41
1:O:304:GLN:C	1:O:315:ALA:HB2	2.46	0.41
1:Q:492:ARG:O	1:Q:534:ASN:HB2	2.20	0.41
1:R:399:MET:CE	1:R:428:THR:HG22	2.51	0.41
1:S:407:ARG:HE	1:S:430:ASP:CB	2.32	0.41
1:U:140:LEU:O	1:U:146:VAL:HA	2.19	0.41
1:U:512:HIS:CD2	1:5:219:PHE:HB2	2.56	0.41
1:V:399:MET:HE2	1:V:428:THR:HG22	2.02	0.41
1:W:107:PHE:C	1:W:412:ARG:HH12	2.19	0.41
1:X:229:VAL:HG21	1:6:133:ASN:HD21	1.84	0.41
1:Z:182:PRO:C	1:Z:184:GLN:N	2.79	0.41
1:1:105:SER:HB3	1:1:178:MET:HB3	2.01	0.41
1:1:304:GLN:C	1:1:315:ALA:HB2	2.45	0.41
1:2:399:MET:CE	1:2:428:THR:HG22	2.51	0.41
1:2:512:HIS:CD2	1:i:219:PHE:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:247:ILE:CG1	1:4:436:ILE:HD11	2.50	0.41
1:4:304:GLN:C	1:4:315:ALA:HB2	2.46	0.41
1:5:230:LEU:HD22	1:5:234:GLU:HB3	2.02	0.41
1:5:247:ILE:CG1	1:5:436:ILE:HD11	2.50	0.41
1:6:275:ASN:CB	1:6:276:GLY:HA3	2.41	0.41
1:a:86:LYS:HA	1:a:86:LYS:HD2	1.78	0.41
1:b:244:CYS:SG	1:b:436:ILE:HD13	2.61	0.41
1:b:304:GLN:C	1:b:315:ALA:HB2	2.46	0.41
1:c:505:ASP:OD1	1:c:505:ASP:N	2.52	0.41
1:d:92:SER:HB3	1:d:190:GLN:NE2	2.35	0.41
1:d:492:ARG:O	1:d:534:ASN:HB2	2.20	0.41
1:d:505:ASP:OD1	1:d:505:ASP:N	2.52	0.41
1:e:246:TRP:HH2	1:e:479:GLU:HG2	1.86	0.41
1:e:496:ALA:HA	1:e:499:LEU:HG	2.01	0.41
1:j:182:PRO:C	1:j:184:GLN:N	2.78	0.41
1:j:399:MET:HE2	1:j:428:THR:HG22	2.02	0.41
1:k:86:LYS:HD2	1:k:86:LYS:HA	1.78	0.41
1:k:107:PHE:C	1:k:412:ARG:HH12	2.19	0.41
1:k:407:ARG:HE	1:k:430:ASP:CB	2.32	0.41
1:l:219:PHE:HB2	1:r:512:HIS:CD2	2.56	0.41
1:l:275:ASN:CB	1:l:276:GLY:HA3	2.41	0.41
1:o:258:LEU:HD23	1:p:194:ILE:HG21	2.03	0.41
1:p:247:ILE:CG1	1:p:436:ILE:HD11	2.50	0.41
1:p:399:MET:CE	1:p:428:THR:HG22	2.51	0.41
1:q:492:ARG:O	1:q:534:ASN:HB2	2.20	0.41
1:r:139:ILE:HD11	1:r:467:TYR:CD2	2.50	0.41
1:r:169:ALA:HB2	1:r:191:TYR:HE1	1.86	0.41
1:r:247:ILE:CG1	1:r:436:ILE:HD11	2.50	0.41
1:r:378:LEU:HD13	1:r:378:LEU:HA	1.90	0.41
1:r:399:MET:CE	1:r:428:THR:HG22	2.51	0.41
1:r:492:ARG:O	1:r:534:ASN:HB2	2.20	0.41
1:s:140:LEU:O	1:s:146:VAL:HA	2.19	0.41
1:t:107:PHE:C	1:t:412:ARG:HH12	2.19	0.41
1:u:304:GLN:C	1:u:315:ALA:HB2	2.45	0.41
1:v:492:ARG:O	1:v:534:ASN:HB2	2.20	0.41
1:v:495:THR:HG23	1:x:493:ARG:H	1.86	0.41
1:w:505:ASP:OD1	1:w:505:ASP:N	2.52	0.41
1:x:230:LEU:HD22	1:x:234:GLU:HB3	2.02	0.41
1:x:247:ILE:CG1	1:x:436:ILE:HD11	2.50	0.41
1:x:399:MET:CE	1:x:428:THR:HG22	2.51	0.41
1:7:139:ILE:HD11	1:7:467:TYR:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:246:TRP:HH2	1:7:479:GLU:HG2	1.86	0.41
1:7:496:ALA:HA	1:7:499:LEU:HG	2.01	0.41
1:8:407:ARG:HE	1:8:430:ASP:CB	2.32	0.41
1:A:140:LEU:HB2	1:A:147:THR:HB	2.01	0.41
1:B:219:PHE:HB2	1:C:512:HIS:CD2	2.56	0.41
1:B:246:TRP:HH2	1:B:479:GLU:HG2	1.86	0.41
1:C:140:LEU:O	1:C:146:VAL:HA	2.19	0.41
1:C:172:PRO:HB3	1:C:415:PRO:HG3	2.01	0.41
1:C:246:TRP:HH2	1:C:479:GLU:HG2	1.86	0.41
1:C:492:ARG:O	1:C:534:ASN:HB2	2.20	0.41
1:E:73:TYR:CE1	1:E:93:THR:HG22	2.56	0.41
1:E:304:GLN:C	1:E:315:ALA:HB2	2.46	0.41
1:E:492:ARG:O	1:E:534:ASN:HB2	2.20	0.41
1:F:139:ILE:HD11	1:F:467:TYR:CD2	2.50	0.41
1:F:399:MET:CE	1:F:428:THR:HG22	2.51	0.41
1:G:304:GLN:C	1:G:315:ALA:HB2	2.46	0.41
1:H:230:LEU:HD22	1:H:234:GLU:HB3	2.02	0.41
1:I:169:ALA:HB2	1:I:191:TYR:HE1	1.86	0.41
1:J:230:LEU:HD22	1:J:234:GLU:HB3	2.02	0.41
1:J:505:ASP:OD1	1:J:505:ASP:N	2.52	0.41
1:K:399:MET:CE	1:K:428:THR:HG22	2.51	0.41
1:M:73:TYR:CE1	1:M:93:THR:HG22	2.56	0.41
1:M:140:LEU:O	1:M:146:VAL:HA	2.19	0.41
1:M:219:PHE:HB2	1:3:512:HIS:CD2	2.56	0.41
1:N:75:THR:HA	1:N:91:VAL:HA	2.03	0.41
1:O:492:ARG:O	1:O:534:ASN:HB2	2.20	0.41
1:Q:516:ASN:CG	1:Q:517:GLY:N	2.78	0.41
1:R:247:ILE:CG1	1:R:436:ILE:HD11	2.50	0.41
1:R:258:LEU:HD23	1:S:194:ILE:HG21	2.03	0.41
1:T:258:LEU:HD23	1:4:194:ILE:HG21	2.03	0.41
1:T:304:GLN:C	1:T:315:ALA:HB2	2.46	0.41
1:U:304:GLN:C	1:U:315:ALA:HB2	2.46	0.41
1:U:492:ARG:O	1:U:534:ASN:HB2	2.20	0.41
1:V:107:PHE:C	1:V:412:ARG:HH12	2.19	0.41
1:V:182:PRO:C	1:V:184:GLN:N	2.79	0.41
1:V:246:TRP:HH2	1:V:479:GLU:HG2	1.86	0.41
1:W:139:ILE:HD11	1:W:467:TYR:CD2	2.50	0.41
1:W:275:ASN:HB3	1:W:276:GLY:CA	2.45	0.41
1:Y:516:ASN:CG	1:Y:517:GLY:N	2.78	0.41
1:Z:140:LEU:O	1:Z:146:VAL:HA	2.19	0.41
1:Z:492:ARG:O	1:Z:534:ASN:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:247:ILE:CG1	1:2:436:ILE:HD11	2.50	0.41
1:3:105:SER:HB3	1:3:178:MET:HB3	2.01	0.41
1:3:304:GLN:C	1:3:315:ALA:HB2	2.46	0.41
1:3:378:LEU:HD13	1:3:378:LEU:HA	1.90	0.41
1:3:399:MET:CE	1:3:428:THR:HG22	2.51	0.41
1:3:496:ALA:HA	1:3:499:LEU:HG	2.01	0.41
1:4:407:ARG:HE	1:4:430:ASP:CB	2.32	0.41
1:4:492:ARG:O	1:4:534:ASN:HB2	2.20	0.41
1:4:493:ARG:H	1:h:495:THR:HG23	1.85	0.41
1:4:496:ALA:HA	1:4:499:LEU:HG	2.01	0.41
1:5:304:GLN:C	1:5:315:ALA:HB2	2.46	0.41
1:5:495:THR:HG23	1:6:493:ARG:H	1.86	0.41
1:6:304:GLN:C	1:6:315:ALA:HB2	2.46	0.41
1:c:516:ASN:CG	1:c:517:GLY:N	2.78	0.41
1:e:219:PHE:HB2	1:q:512:HIS:CD2	2.56	0.41
1:f:399:MET:CE	1:f:428:THR:HG22	2.51	0.41
1:g:399:MET:CE	1:g:428:THR:HG22	2.51	0.41
1:h:73:TYR:CE1	1:h:93:THR:HG22	2.56	0.41
1:j:107:PHE:C	1:j:412:ARG:HH12	2.19	0.41
1:j:139:ILE:HD11	1:j:467:TYR:CD2	2.50	0.41
1:j:219:PHE:HB2	1:z:512:HIS:CD2	2.55	0.41
1:j:244:CYS:SG	1:j:436:ILE:HD13	2.61	0.41
1:j:516:ASN:CG	1:j:517:GLY:N	2.78	0.41
1:k:194:ILE:HG21	1:m:258:LEU:HD23	2.03	0.41
1:k:304:GLN:C	1:k:315:ALA:HB2	2.46	0.41
1:k:399:MET:CE	1:k:428:THR:HG22	2.51	0.41
1:k:512:HIS:CD2	1:s:219:PHE:HB2	2.56	0.41
1:l:496:ALA:HA	1:l:499:LEU:HG	2.01	0.41
1:m:244:CYS:SG	1:m:436:ILE:HD13	2.61	0.41
1:m:399:MET:HE2	1:m:428:THR:HG22	2.02	0.41
1:m:516:ASN:CG	1:m:517:GLY:N	2.78	0.41
1:n:194:ILE:HG21	1:p:258:LEU:HD23	2.03	0.41
1:o:229:VAL:HG21	1:y:133:ASN:HD21	1.84	0.41
1:o:244:CYS:SG	1:o:436:ILE:HD13	2.61	0.41
1:o:476:ILE:HG21	1:o:476:ILE:HD13	1.83	0.41
1:s:73:TYR:CE1	1:s:93:THR:HG22	2.56	0.41
1:s:230:LEU:HD22	1:s:234:GLU:HB3	2.02	0.41
1:t:399:MET:CE	1:t:428:THR:HG22	2.51	0.41
1:u:73:TYR:CE1	1:u:93:THR:HG22	2.56	0.41
1:u:492:ARG:O	1:u:534:ASN:HB2	2.20	0.41
1:v:507:ILE:HG23	1:v:508:ASN:N	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:516:ASN:CG	1:v:517:GLY:N	2.78	0.41
1:y:244:CYS:SG	1:y:436:ILE:HD13	2.61	0.41
1:y:366:ASP:HA	1:y:367:GLY:HA2	1.77	0.41
1:y:492:ARG:O	1:y:534:ASN:HB2	2.20	0.41
1:A:246:TRP:HH2	1:A:479:GLU:HG2	1.86	0.41
1:B:247:ILE:CG1	1:B:436:ILE:HD11	2.50	0.41
1:D:169:ALA:HB2	1:D:191:TYR:HE1	1.86	0.41
1:D:399:MET:CE	1:D:428:THR:HG22	2.51	0.41
1:D:507:ILE:HG23	1:D:508:ASN:OD1	2.21	0.41
1:F:492:ARG:O	1:F:534:ASN:HB2	2.20	0.41
1:G:73:TYR:CE1	1:G:93:THR:HG22	2.56	0.41
1:G:230:LEU:HD22	1:G:234:GLU:HB3	2.02	0.41
1:G:247:ILE:CG1	1:G:436:ILE:HD11	2.50	0.41
1:G:388:GLN:HB2	1:I:304:GLN:HE21	1.86	0.41
1:I:75:THR:HA	1:I:91:VAL:HA	2.03	0.41
1:J:476:ILE:HG21	1:J:476:ILE:HD13	1.83	0.41
1:J:495:THR:HG23	1:K:493:ARG:H	1.86	0.41
1:K:347:PRO:O	1:K:348:THR:OG1	2.22	0.41
1:L:399:MET:HE2	1:L:428:THR:HG22	2.02	0.41
1:M:512:HIS:CD2	1:N:219:PHE:HB2	2.56	0.41
1:N:41:THR:HG21	1:N:235:SER:CB	2.46	0.41
1:O:246:TRP:HH2	1:O:479:GLU:HG2	1.86	0.41
1:P:244:CYS:SG	1:P:436:ILE:HD13	2.61	0.41
1:Q:75:THR:HA	1:Q:91:VAL:HA	2.03	0.41
1:Q:493:ARG:H	1:R:495:THR:HG23	1.85	0.41
1:Q:505:ASP:OD1	1:Q:505:ASP:N	2.52	0.41
1:R:399:MET:HE2	1:R:428:THR:HG22	2.02	0.41
1:R:476:ILE:HD13	1:R:476:ILE:HG21	1.83	0.41
1:T:75:THR:HA	1:T:91:VAL:HA	2.03	0.41
1:V:105:SER:HB3	1:V:178:MET:HB3	2.01	0.41
1:V:516:ASN:CG	1:V:517:GLY:N	2.78	0.41
1:W:271:TYR:O	1:Y:305:ARG:HD2	2.19	0.41
1:W:507:ILE:HG23	1:W:508:ASN:OD1	2.21	0.41
1:Y:105:SER:HB3	1:Y:178:MET:HB3	2.01	0.41
1:Y:107:PHE:C	1:Y:412:ARG:HH12	2.19	0.41
1:Y:182:PRO:C	1:Y:184:GLN:N	2.79	0.41
1:Y:399:MET:HE2	1:Y:428:THR:HG22	2.02	0.41
1:1:75:THR:HA	1:1:91:VAL:HA	2.03	0.41
1:1:258:LEU:HD23	1:8:194:ILE:HG21	2.03	0.41
1:3:258:LEU:HD23	1:i:194:ILE:HG21	2.03	0.41
1:5:246:TRP:HH2	1:5:479:GLU:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:230:LEU:HD22	1:6:234:GLU:HB3	2.02	0.41
1:6:247:ILE:CG1	1:6:436:ILE:HD11	2.50	0.41
1:a:246:TRP:HH2	1:a:479:GLU:HG2	1.86	0.41
1:b:75:THR:HA	1:b:91:VAL:HA	2.03	0.41
1:b:493:ARG:H	1:e:495:THR:HG23	1.86	0.41
1:c:496:ALA:HA	1:c:499:LEU:HG	2.01	0.41
1:e:505:ASP:OD1	1:e:505:ASP:N	2.52	0.41
1:f:399:MET:HE2	1:f:428:THR:HG22	2.02	0.41
1:g:258:LEU:HD23	1:h:194:ILE:HG21	2.03	0.41
1:i:73:TYR:CE1	1:i:93:THR:HG22	2.56	0.41
1:j:86:LYS:HD2	1:j:86:LYS:HA	1.78	0.41
1:k:258:LEU:HD23	1:l:194:ILE:HG21	2.03	0.41
1:l:507:ILE:HG23	1:l:508:ASN:OD1	2.21	0.41
1:m:182:PRO:C	1:m:184:GLN:N	2.78	0.41
1:n:75:THR:HA	1:n:91:VAL:HA	2.03	0.41
1:n:219:PHE:HB2	1:s:512:HIS:CD2	2.56	0.41
1:o:507:ILE:HG23	1:o:508:ASN:OD1	2.21	0.41
1:p:507:ILE:HG23	1:p:508:ASN:OD1	2.21	0.41
1:q:73:TYR:CE1	1:q:93:THR:HG22	2.56	0.41
1:q:246:TRP:HH2	1:q:479:GLU:HG2	1.86	0.41
1:t:505:ASP:N	1:t:505:ASP:OD1	2.52	0.41
1:u:366:ASP:HA	1:u:367:GLY:HA2	1.77	0.41
1:v:75:THR:HA	1:v:91:VAL:HA	2.03	0.41
1:w:182:PRO:C	1:w:184:GLN:N	2.79	0.41
1:w:194:ILE:HG21	1:x:258:LEU:HD23	2.03	0.41
1:w:244:CYS:SG	1:w:436:ILE:HD13	2.61	0.41
1:x:399:MET:HE2	1:x:428:THR:HG22	2.02	0.41
1:y:229:VAL:HG22	1:8:43:GLY:HA2	2.03	0.41
1:y:246:TRP:HH2	1:y:479:GLU:HG2	1.86	0.41
1:y:337:GLY:O	1:7:292:THR:HG22	2.21	0.41
1:z:258:LEU:HD23	1:7:194:ILE:HG21	2.03	0.41
1:z:399:MET:CE	1:z:428:THR:HG22	2.51	0.41
1:7:182:PRO:C	1:7:184:GLN:N	2.78	0.41
1:7:304:GLN:C	1:7:315:ALA:HB2	2.46	0.41
1:7:399:MET:CE	1:7:428:THR:HG22	2.51	0.41
1:8:247:ILE:CG1	1:8:436:ILE:HD11	2.50	0.41
1:8:492:ARG:O	1:8:534:ASN:HB2	2.20	0.41
1:A:75:THR:HA	1:A:91:VAL:HA	2.03	0.41
1:B:244:CYS:SG	1:B:436:ILE:HD13	2.61	0.41
1:C:73:TYR:CE1	1:C:93:THR:HG22	2.56	0.41
1:C:258:LEU:HD23	1:2:194:ILE:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:508:ASN:HB2	1:C:509:PRO:HD2	2.01	0.41
1:D:219:PHE:HB2	1:E:512:HIS:CD2	2.56	0.41
1:D:258:LEU:HD23	1:N:194:ILE:HG21	2.03	0.41
1:E:86:LYS:HD2	1:E:86:LYS:HA	1.78	0.41
1:F:247:ILE:CG1	1:F:436:ILE:HD11	2.50	0.41
1:F:505:ASP:N	1:F:505:ASP:OD1	2.52	0.41
1:H:73:TYR:CE1	1:H:93:THR:HG22	2.56	0.41
1:H:229:VAL:HG22	1:Z:43:GLY:HA2	2.03	0.41
1:I:73:TYR:CE1	1:I:93:THR:HG22	2.56	0.41
1:I:512:HIS:CD2	1:J:219:PHE:HB2	2.56	0.41
1:J:246:TRP:HH2	1:J:479:GLU:HG2	1.86	0.41
1:J:258:LEU:HD23	1:L:194:ILE:HG21	2.03	0.41
1:J:399:MET:CE	1:J:428:THR:HG22	2.51	0.41
1:K:247:ILE:CG1	1:K:436:ILE:HD11	2.50	0.41
1:L:73:TYR:CE1	1:L:93:THR:HG22	2.56	0.41
1:L:107:PHE:C	1:L:412:ARG:HH12	2.19	0.41
1:L:507:ILE:HG23	1:L:508:ASN:OD1	2.21	0.41
1:L:517:GLY:CA	1:L:518:ALA:HB2	2.51	0.41
1:M:139:ILE:HD11	1:M:467:TYR:CD2	2.50	0.41
1:M:399:MET:CE	1:M:428:THR:HG22	2.51	0.41
1:N:304:GLN:C	1:N:315:ALA:HB2	2.45	0.41
1:O:133:ASN:HD21	1:P:229:VAL:HG21	1.85	0.41
1:O:366:ASP:HA	1:O:367:GLY:HA2	1.77	0.41
1:P:507:ILE:HG23	1:P:508:ASN:OD1	2.21	0.41
1:S:182:PRO:C	1:S:184:GLN:N	2.79	0.41
1:S:244:CYS:SG	1:S:436:ILE:HD13	2.61	0.41
1:S:246:TRP:HH2	1:S:479:GLU:HG2	1.86	0.41
1:S:262:PRO:HG2	1:U:90:CYS:HB2	2.01	0.41
1:T:229:VAL:HG22	1:c:43:GLY:HA2	2.03	0.41
1:T:230:LEU:HD22	1:T:234:GLU:HB3	2.02	0.41
1:T:244:CYS:SG	1:T:436:ILE:HD13	2.61	0.41
1:U:43:GLY:HA2	1:5:229:VAL:HG22	2.03	0.41
1:U:493:ARG:H	1:V:495:THR:HG23	1.86	0.41
1:V:258:LEU:HD23	1:5:194:ILE:HG21	2.03	0.41
1:V:378:LEU:HD13	1:V:378:LEU:HA	1.90	0.41
1:X:507:ILE:HG23	1:X:508:ASN:OD1	2.21	0.41
1:Y:495:THR:HG23	1:Z:493:ARG:H	1.86	0.41
1:1:230:LEU:HD22	1:1:234:GLU:HB3	2.02	0.41
1:1:244:CYS:SG	1:1:436:ILE:HD13	2.61	0.41
1:1:275:ASN:CB	1:1:276:GLY:HA3	2.41	0.41
1:2:139:ILE:HD11	1:2:467:TYR:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:304:GLN:C	1:2:315:ALA:HB2	2.46	0.41
1:3:246:TRP:HH2	1:3:479:GLU:HG2	1.86	0.41
1:3:517:GLY:CA	1:3:518:ALA:HB2	2.51	0.41
1:5:73:TYR:CE1	1:5:93:THR:HG22	2.56	0.41
1:5:399:MET:CE	1:5:428:THR:HG22	2.51	0.41
1:5:525:TRP:HB3	1:5:526:ASP:OD1	2.21	0.41
1:6:73:TYR:CE1	1:6:93:THR:HG22	2.56	0.41
1:a:75:THR:HA	1:a:91:VAL:HA	2.03	0.41
1:b:73:TYR:CE1	1:b:93:THR:HG22	2.56	0.41
1:b:169:ALA:HB2	1:b:191:TYR:HE1	1.86	0.41
1:b:246:TRP:HH2	1:b:479:GLU:HG2	1.85	0.41
1:b:495:THR:HG23	1:e:493:ARG:H	1.85	0.41
1:c:246:TRP:HH2	1:c:479:GLU:HG2	1.86	0.41
1:d:73:TYR:CE1	1:d:93:THR:HG22	2.56	0.41
1:d:507:ILE:HG23	1:d:508:ASN:OD1	2.21	0.41
1:e:244:CYS:SG	1:e:436:ILE:HD13	2.61	0.41
1:e:247:ILE:CG1	1:e:436:ILE:HD11	2.50	0.41
1:f:247:ILE:CG1	1:f:436:ILE:HD11	2.50	0.41
1:f:347:PRO:O	1:f:348:THR:OG1	2.22	0.41
1:g:304:GLN:C	1:g:315:ALA:HB2	2.46	0.41
1:g:512:HIS:CD2	1:m:219:PHE:HB2	2.56	0.41
1:h:182:PRO:C	1:h:184:GLN:N	2.79	0.41
1:h:304:GLN:C	1:h:315:ALA:HB2	2.46	0.41
1:i:399:MET:CE	1:i:428:THR:HG22	2.51	0.41
1:i:507:ILE:HG23	1:i:508:ASN:OD1	2.21	0.41
1:j:492:ARG:O	1:j:534:ASN:HB2	2.20	0.41
1:k:73:TYR:CE1	1:k:93:THR:HG22	2.56	0.41
1:k:105:SER:HB3	1:k:178:MET:HB3	2.01	0.41
1:k:246:TRP:HH2	1:k:479:GLU:HG2	1.86	0.41
1:k:496:ALA:HA	1:k:499:LEU:HG	2.01	0.41
1:l:73:TYR:CE1	1:l:93:THR:HG22	2.56	0.41
1:l:517:GLY:CA	1:l:518:ALA:HB2	2.51	0.41
1:m:246:TRP:HH2	1:m:479:GLU:HG2	1.86	0.41
1:p:169:ALA:HB2	1:p:191:TYR:HE1	1.86	0.41
1:p:399:MET:HE2	1:p:428:THR:HG22	2.02	0.41
1:r:41:THR:HG21	1:r:235:SER:CB	2.46	0.41
1:s:139:ILE:HD11	1:s:467:TYR:CD2	2.50	0.41
1:s:244:CYS:SG	1:s:436:ILE:HD13	2.61	0.41
1:t:507:ILE:HG23	1:t:508:ASN:N	2.23	0.41
1:v:304:GLN:C	1:v:315:ALA:HB2	2.46	0.41
1:z:139:ILE:HD11	1:z:467:TYR:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:304:GLN:C	1:z:315:ALA:HB2	2.45	0.41
1:z:517:GLY:CA	1:z:518:ALA:HB2	2.51	0.41
1:7:73:TYR:CE1	1:7:93:THR:HG22	2.56	0.41
1:7:492:ARG:O	1:7:534:ASN:HB2	2.20	0.41
1:8:304:GLN:C	1:8:315:ALA:HB2	2.46	0.41
1:8:366:ASP:HA	1:8:367:GLY:HA2	1.77	0.41
1:8:507:ILE:HG23	1:8:508:ASN:OD1	2.21	0.41
1:8:525:TRP:HB3	1:8:526:ASP:OD1	2.21	0.41
1:A:86:LYS:HA	1:A:86:LYS:HD2	1.78	0.41
1:A:492:ARG:O	1:A:534:ASN:HB2	2.20	0.41
1:A:507:ILE:HG23	1:A:508:ASN:OD1	2.21	0.41
1:B:244:CYS:SG	1:B:245:GLU:N	2.79	0.41
1:B:495:THR:HG23	1:I:493:ARG:H	1.86	0.41
1:B:507:ILE:HG23	1:B:508:ASN:OD1	2.21	0.41
1:C:194:ILE:HG21	1:M:258:LEU:HD23	2.03	0.41
1:C:244:CYS:SG	1:C:436:ILE:HD13	2.61	0.41
1:C:517:GLY:CA	1:C:518:ALA:HB2	2.51	0.41
1:C:525:TRP:HB3	1:C:526:ASP:OD1	2.21	0.41
1:D:270:GLN:OE1	1:N:313:THR:OG1	2.36	0.41
1:D:399:MET:HE2	1:D:428:THR:HG22	2.02	0.41
1:D:507:ILE:HG23	1:D:508:ASN:N	2.23	0.41
1:E:169:ALA:HB2	1:E:191:TYR:HE1	1.86	0.41
1:E:366:ASP:HA	1:E:367:GLY:HA2	1.77	0.41
1:E:399:MET:CE	1:E:428:THR:HG22	2.51	0.41
1:E:507:ILE:HG23	1:E:508:ASN:OD1	2.21	0.41
1:E:517:GLY:CA	1:E:518:ALA:HB2	2.51	0.41
1:F:107:PHE:C	1:F:412:ARG:HH12	2.19	0.41
1:F:169:ALA:HB2	1:F:191:TYR:HE1	1.86	0.41
1:F:194:ILE:HG21	1:Q:258:LEU:HD23	2.03	0.41
1:H:133:ASN:HD21	1:I:229:VAL:HG21	1.84	0.41
1:H:171:HIS:HA	1:H:172:PRO:HD3	1.93	0.41
1:H:194:ILE:HG21	1:Y:258:LEU:HD23	2.03	0.41
1:H:399:MET:CE	1:H:428:THR:HG22	2.51	0.41
1:H:492:ARG:O	1:H:534:ASN:HB2	2.20	0.41
1:H:525:TRP:HB3	1:H:526:ASP:OD1	2.21	0.41
1:I:246:TRP:HH2	1:I:479:GLU:HG2	1.86	0.41
1:I:399:MET:HE2	1:I:428:THR:HG22	2.02	0.41
1:I:399:MET:CE	1:I:428:THR:HG22	2.51	0.41
1:J:43:GLY:HA2	1:I:229:VAL:HG22	2.03	0.41
1:J:73:TYR:CE1	1:J:93:THR:HG22	2.56	0.41
1:J:244:CYS:SG	1:J:436:ILE:HD13	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:43:GLY:HA2	1:L:229:VAL:HG22	2.03	0.41
1:K:73:TYR:CE1	1:K:93:THR:HG22	2.56	0.41
1:K:507:ILE:HG23	1:K:508:ASN:OD1	2.21	0.41
1:L:246:TRP:HH2	1:L:479:GLU:HG2	1.86	0.41
1:L:399:MET:CE	1:L:428:THR:HG22	2.51	0.41
1:L:525:TRP:HB3	1:L:526:ASP:OD1	2.21	0.41
1:M:244:CYS:SG	1:M:436:ILE:HD13	2.61	0.41
1:N:230:LEU:HD22	1:N:234:GLU:HB3	2.02	0.41
1:N:246:TRP:HH2	1:N:479:GLU:HG2	1.86	0.41
1:N:258:LEU:HD23	1:P:194:ILE:HG21	2.03	0.41
1:N:493:ARG:H	1:O:495:THR:HG23	1.85	0.41
1:N:512:HIS:CD2	1:g:219:PHE:HB2	2.56	0.41
1:O:41:THR:HG21	1:O:235:SER:CB	2.46	0.41
1:O:230:LEU:HD22	1:O:234:GLU:HB3	2.02	0.41
1:O:378:LEU:HD13	1:O:378:LEU:HA	1.90	0.41
1:P:517:GLY:CA	1:P:518:ALA:HB2	2.51	0.41
1:P:525:TRP:HB3	1:P:526:ASP:OD1	2.21	0.41
1:Q:182:PRO:C	1:Q:184:GLN:N	2.79	0.41
1:Q:230:LEU:HD22	1:Q:234:GLU:HB3	2.02	0.41
1:Q:304:GLN:C	1:Q:315:ALA:HB2	2.46	0.41
1:Q:517:GLY:CA	1:Q:518:ALA:HB2	2.51	0.41
1:Q:525:TRP:HB3	1:Q:526:ASP:OD1	2.21	0.41
1:R:292:THR:HG22	1:S:337:GLY:O	2.21	0.41
1:R:517:GLY:CA	1:R:518:ALA:HB2	2.51	0.41
1:S:43:GLY:HA2	1:4:229:VAL:HG22	2.03	0.41
1:S:75:THR:HA	1:S:91:VAL:HA	2.03	0.41
1:S:292:THR:HG22	1:U:337:GLY:O	2.21	0.41
1:S:304:GLN:C	1:S:315:ALA:HB2	2.46	0.41
1:U:73:TYR:CE1	1:U:93:THR:HG22	2.56	0.41
1:V:171:HIS:HA	1:V:172:PRO:HD3	1.93	0.41
1:V:262:PRO:HG2	1:5:90:CYS:HB2	2.01	0.41
1:V:292:THR:HG22	1:5:337:GLY:O	2.21	0.41
1:V:399:MET:CE	1:V:428:THR:HG22	2.51	0.41
1:W:75:THR:HA	1:W:91:VAL:HA	2.03	0.41
1:W:246:TRP:HH2	1:W:479:GLU:HG2	1.86	0.41
1:X:75:THR:HA	1:X:91:VAL:HA	2.03	0.41
1:X:107:PHE:C	1:X:412:ARG:HH12	2.19	0.41
1:X:139:ILE:HD11	1:X:467:TYR:CD2	2.50	0.41
1:X:171:HIS:HA	1:X:172:PRO:HD3	1.93	0.41
1:X:246:TRP:HH2	1:X:479:GLU:HG2	1.86	0.41
1:Y:171:HIS:HA	1:Y:172:PRO:HD3	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:246:TRP:HH2	1:Y:479:GLU:HG2	1.86	0.41
1:Z:73:TYR:CE1	1:Z:93:THR:HG22	2.56	0.41
1:Z:90:CYS:HB2	1:w:262:PRO:HG2	2.01	0.41
1:Z:304:GLN:C	1:Z:315:ALA:HB2	2.46	0.41
1:1:517:GLY:CA	1:1:518:ALA:HB2	2.51	0.41
1:2:244:CYS:SG	1:2:436:ILE:HD13	2.61	0.41
1:2:378:LEU:HD13	1:2:378:LEU:HA	1.90	0.41
1:3:73:TYR:CE1	1:3:93:THR:HG22	2.56	0.41
1:3:337:GLY:O	1:j:292:THR:HG22	2.21	0.41
1:3:507:ILE:HG23	1:3:508:ASN:OD1	2.21	0.41
1:3:508:ASN:HB2	1:3:509:PRO:HD2	2.01	0.41
1:4:73:TYR:CE1	1:4:93:THR:HG22	2.55	0.41
1:4:277:ASN:O	1:4:278:THR:C	2.64	0.41
1:4:399:MET:HE2	1:4:428:THR:HG22	2.02	0.41
1:4:507:ILE:HG23	1:4:508:ASN:OD1	2.21	0.41
1:4:525:TRP:HB3	1:4:526:ASP:OD1	2.21	0.41
1:5:171:HIS:HA	1:5:172:PRO:HD3	1.93	0.41
1:5:492:ARG:O	1:5:534:ASN:HB2	2.20	0.41
1:5:512:HIS:CD2	1:b:219:PHE:HB2	2.56	0.41
1:6:107:PHE:C	1:6:412:ARG:HH12	2.19	0.41
1:a:507:ILE:HG23	1:a:508:ASN:OD1	2.21	0.41
1:a:512:HIS:CD2	1:u:219:PHE:HB2	2.55	0.41
1:b:171:HIS:HA	1:b:172:PRO:HD3	1.93	0.41
1:b:512:HIS:CD2	1:c:219:PHE:HB2	2.56	0.41
1:c:107:PHE:C	1:c:412:ARG:HH12	2.19	0.41
1:c:244:CYS:SG	1:c:436:ILE:HD13	2.61	0.41
1:c:258:LEU:HD23	1:d:194:ILE:HG21	2.03	0.41
1:c:399:MET:CE	1:c:428:THR:HG22	2.51	0.41
1:c:495:THR:HG23	1:f:493:ARG:H	1.86	0.41
1:d:229:VAL:HG22	1:f:43:GLY:HA2	2.03	0.41
1:d:230:LEU:HD22	1:d:234:GLU:HB3	2.02	0.41
1:d:399:MET:HE2	1:d:428:THR:HG22	2.02	0.41
1:d:399:MET:CE	1:d:428:THR:HG22	2.51	0.41
1:d:517:GLY:CA	1:d:518:ALA:HB2	2.51	0.41
1:d:525:TRP:HB3	1:d:526:ASP:OD1	2.21	0.41
1:e:244:CYS:SG	1:e:245:GLU:N	2.79	0.41
1:f:73:TYR:CE1	1:f:93:THR:HG22	2.56	0.41
1:f:507:ILE:HG23	1:f:508:ASN:OD1	2.21	0.41
1:g:139:ILE:HD11	1:g:467:TYR:CD2	2.50	0.41
1:g:399:MET:HE2	1:g:428:THR:HG22	2.02	0.41
1:g:517:GLY:CA	1:g:518:ALA:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:41:THR:HG21	1:h:235:SER:CB	2.46	0.41
1:h:75:THR:HA	1:h:91:VAL:HA	2.03	0.41
1:h:399:MET:CE	1:h:428:THR:HG22	2.51	0.41
1:h:492:ARG:O	1:h:534:ASN:HB2	2.20	0.41
1:h:517:GLY:CA	1:h:518:ALA:HB2	2.51	0.41
1:i:230:LEU:HD22	1:i:234:GLU:HB3	2.02	0.41
1:i:496:ALA:HA	1:i:499:LEU:HG	2.01	0.41
1:i:517:GLY:CA	1:i:518:ALA:HB2	2.51	0.41
1:j:169:ALA:HB2	1:j:191:TYR:HE1	1.86	0.41
1:j:229:VAL:HG22	1:z:43:GLY:HA2	2.03	0.41
1:j:230:LEU:HD22	1:j:234:GLU:HB3	2.02	0.41
1:j:246:TRP:HH2	1:j:479:GLU:HG2	1.86	0.41
1:j:399:MET:CE	1:j:428:THR:HG22	2.51	0.41
1:k:337:GLY:O	1:m:292:THR:HG22	2.21	0.41
1:k:507:ILE:HG23	1:k:508:ASN:OD1	2.21	0.41
1:k:508:ASN:HB2	1:k:509:PRO:HD2	2.01	0.41
1:k:517:GLY:CA	1:k:518:ALA:HB2	2.51	0.41
1:m:41:THR:HG21	1:m:235:SER:CB	2.45	0.41
1:m:107:PHE:C	1:m:412:ARG:HH12	2.19	0.41
1:m:169:ALA:HB2	1:m:191:TYR:HE1	1.86	0.41
1:m:230:LEU:HD22	1:m:234:GLU:HB3	2.02	0.41
1:m:399:MET:CE	1:m:428:THR:HG22	2.51	0.41
1:m:492:ARG:O	1:m:534:ASN:HB2	2.20	0.41
1:n:230:LEU:HD22	1:n:234:GLU:HB3	2.02	0.41
1:n:246:TRP:HH2	1:n:479:GLU:HG2	1.86	0.41
1:n:258:LEU:HD23	1:o:194:ILE:HG21	2.03	0.41
1:n:304:GLN:C	1:n:315:ALA:HB2	2.46	0.41
1:n:337:GLY:O	1:p:292:THR:HG22	2.21	0.41
1:n:512:HIS:CD2	1:z:219:PHE:HB2	2.56	0.41
1:o:517:GLY:CA	1:o:518:ALA:HB2	2.51	0.41
1:o:525:TRP:HB3	1:o:526:ASP:OD1	2.21	0.41
1:p:219:PHE:HB2	1:u:512:HIS:CD2	2.56	0.41
1:p:229:VAL:HG22	1:u:43:GLY:HA2	2.03	0.41
1:q:172:PRO:HB3	1:q:415:PRO:HG3	2.01	0.41
1:q:194:ILE:HG21	1:s:258:LEU:HD23	2.03	0.41
1:q:244:CYS:SG	1:q:436:ILE:HD13	2.61	0.41
1:q:258:LEU:HD23	1:r:194:ILE:HG21	2.03	0.41
1:q:508:ASN:HB2	1:q:509:PRO:HD2	2.01	0.41
1:q:517:GLY:CA	1:q:518:ALA:HB2	2.51	0.41
1:q:525:TRP:HB3	1:q:526:ASP:OD1	2.21	0.41
1:r:244:CYS:SG	1:r:436:ILE:HD13	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:304:GLN:C	1:r:315:ALA:HB2	2.46	0.41
1:s:399:MET:CE	1:s:428:THR:HG22	2.51	0.41
1:s:517:GLY:CA	1:s:518:ALA:HB2	2.51	0.41
1:t:194:ILE:HG21	1:v:258:LEU:HD23	2.03	0.41
1:t:244:CYS:SG	1:t:436:ILE:HD13	2.61	0.41
1:t:247:ILE:CG1	1:t:436:ILE:HD11	2.50	0.41
1:t:492:ARG:O	1:t:534:ASN:HB2	2.20	0.41
1:u:169:ALA:HB2	1:u:191:TYR:HE1	1.86	0.41
1:u:399:MET:CE	1:u:428:THR:HG22	2.51	0.41
1:u:507:ILE:HG23	1:u:508:ASN:OD1	2.21	0.41
1:u:517:GLY:CA	1:u:518:ALA:HB2	2.51	0.41
1:v:230:LEU:HD22	1:v:234:GLU:HB3	2.02	0.41
1:v:493:ARG:H	1:x:495:THR:HG23	1.85	0.41
1:v:505:ASP:OD1	1:v:505:ASP:N	2.52	0.41
1:v:517:GLY:CA	1:v:518:ALA:HB2	2.51	0.41
1:v:525:TRP:HB3	1:v:526:ASP:OD1	2.21	0.41
1:w:43:GLY:HA2	1:8:229:VAL:HG22	2.03	0.41
1:w:246:TRP:HH2	1:w:479:GLU:HG2	1.86	0.41
1:w:304:GLN:C	1:w:315:ALA:HB2	2.46	0.41
1:w:337:GLY:O	1:x:292:THR:HG22	2.21	0.41
1:y:41:THR:HG21	1:y:235:SER:CB	2.46	0.41
1:y:258:LEU:HD23	1:z:194:ILE:HG21	2.03	0.41
1:y:292:THR:HG22	1:z:337:GLY:O	2.21	0.41
1:z:399:MET:HE2	1:z:428:THR:HG22	2.02	0.41
1:7:41:THR:HG21	1:7:235:SER:CB	2.46	0.41
1:7:75:THR:HA	1:7:91:VAL:HA	2.03	0.41
1:8:73:TYR:CE1	1:8:93:THR:HG22	2.56	0.41
1:8:107:PHE:C	1:8:412:ARG:HH12	2.19	0.41
1:B:337:GLY:O	1:L:292:THR:HG22	2.21	0.41
1:C:86:LYS:HD2	1:C:86:LYS:HA	1.78	0.41
1:C:219:PHE:HB2	1:D:512:HIS:CD2	2.56	0.41
1:D:229:VAL:HG22	1:E:43:GLY:HA2	2.03	0.41
1:D:277:ASN:O	1:D:278:THR:C	2.64	0.41
1:D:292:THR:HG22	1:N:337:GLY:O	2.21	0.41
1:E:292:THR:HG22	1:Q:337:GLY:O	2.21	0.41
1:F:219:PHE:HB2	1:R:512:HIS:CD2	2.56	0.41
1:F:244:CYS:SG	1:F:436:ILE:HD13	2.61	0.41
1:G:407:ARG:HE	1:G:430:ASP:CB	2.32	0.41
1:H:337:GLY:O	1:Y:292:THR:HG22	2.21	0.41
1:H:517:GLY:CA	1:H:518:ALA:HB2	2.51	0.41
1:I:171:HIS:HA	1:I:172:PRO:HD3	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:277:ASN:O	1:J:278:THR:C	2.64	0.41
1:L:230:LEU:HD22	1:L:234:GLU:HB3	2.02	0.41
1:L:261:ASN:ND2	1:L:264:VAL:HG23	2.36	0.41
1:M:517:GLY:CA	1:M:518:ALA:HB2	2.51	0.41
1:N:492:ARG:O	1:N:534:ASN:HB2	2.20	0.41
1:O:261:ASN:ND2	1:O:264:VAL:HG23	2.36	0.41
1:P:512:HIS:CD2	1:Q:219:PHE:HB2	2.56	0.41
1:R:219:PHE:HB2	1:V:512:HIS:CD2	2.56	0.41
1:S:493:ARG:H	1:T:495:THR:HG23	1.86	0.41
1:T:517:GLY:CA	1:T:518:ALA:HB2	2.51	0.41
1:W:244:CYS:SG	1:W:436:ILE:HD13	2.61	0.41
1:X:244:CYS:SG	1:X:436:ILE:HD13	2.61	0.41
1:Y:512:HIS:CD2	1:x:219:PHE:HB2	2.56	0.41
1:Z:337:GLY:O	1:w:292:THR:HG22	2.21	0.41
1:Z:517:GLY:CA	1:Z:518:ALA:HB2	2.51	0.41
1:2:41:THR:HG21	1:2:235:SER:CB	2.46	0.41
1:2:261:ASN:ND2	1:2:264:VAL:HG23	2.37	0.41
1:4:107:PHE:C	1:4:412:ARG:HH12	2.19	0.41
1:4:495:THR:HG23	1:h:493:ARG:H	1.86	0.41
1:5:493:ARG:H	1:6:495:THR:HG23	1.85	0.41
1:5:507:ILE:HG23	1:5:508:ASN:OD1	2.21	0.41
1:5:517:GLY:CA	1:5:518:ALA:HB2	2.51	0.41
1:6:51:THR:OG1	1:6:54:TYR:O	2.36	0.41
1:a:230:LEU:HD22	1:a:234:GLU:HB3	2.02	0.41
1:a:492:ARG:O	1:a:534:ASN:HB2	2.20	0.41
1:b:399:MET:HE2	1:b:428:THR:HG22	2.02	0.41
1:b:399:MET:CE	1:b:428:THR:HG22	2.51	0.41
1:c:73:TYR:CE1	1:c:93:THR:HG22	2.56	0.41
1:c:277:ASN:O	1:c:278:THR:C	2.64	0.41
1:c:476:ILE:HG21	1:c:476:ILE:HD13	1.83	0.41
1:c:492:ARG:O	1:c:534:ASN:HB2	2.20	0.41
1:d:246:TRP:HH2	1:d:479:GLU:HG2	1.86	0.41
1:d:261:ASN:ND2	1:d:264:VAL:HG23	2.36	0.41
1:d:292:THR:HG22	1:e:337:GLY:O	2.21	0.41
1:e:476:ILE:HD13	1:e:476:ILE:HG21	1.83	0.41
1:e:507:ILE:HG23	1:e:508:ASN:OD1	2.21	0.41
1:f:496:ALA:HA	1:f:499:LEU:HG	2.01	0.41
1:g:43:GLY:HA2	1:m:229:VAL:HG22	2.03	0.41
1:g:525:TRP:HB3	1:g:526:ASP:OD1	2.21	0.41
1:h:525:TRP:HB3	1:h:526:ASP:OD1	2.21	0.41
1:i:275:ASN:CB	1:i:276:GLY:HA3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:292:THR:HG22	1:j:337:GLY:O	2.21	0.41
1:l:230:LEU:HD22	1:l:234:GLU:HB3	2.02	0.41
1:l:292:THR:HG22	1:m:337:GLY:O	2.21	0.41
1:l:399:MET:CE	1:l:428:THR:HG22	2.51	0.41
1:m:525:TRP:HB3	1:m:526:ASP:OD1	2.21	0.41
1:n:73:TYR:CE1	1:n:93:THR:HG22	2.56	0.41
1:n:492:ARG:O	1:n:534:ASN:HB2	2.20	0.41
1:p:277:ASN:O	1:p:278:THR:C	2.64	0.41
1:p:517:GLY:CA	1:p:518:ALA:HB2	2.51	0.41
1:r:261:ASN:ND2	1:r:264:VAL:HG23	2.36	0.41
1:t:169:ALA:HB2	1:t:191:TYR:HE1	1.86	0.41
1:t:219:PHE:HB2	1:x:512:HIS:CD2	2.56	0.41
1:t:246:TRP:HH2	1:t:479:GLU:HG2	1.86	0.41
1:u:171:HIS:HA	1:u:172:PRO:HD3	1.93	0.41
1:w:75:THR:HA	1:w:91:VAL:HA	2.03	0.41
1:x:476:ILE:HD13	1:x:476:ILE:HG21	1.83	0.41
1:y:261:ASN:ND2	1:y:264:VAL:HG23	2.37	0.41
1:z:525:TRP:HB3	1:z:526:ASP:OD1	2.21	0.41
1:7:275:ASN:HB3	1:7:276:GLY:CA	2.45	0.41
1:7:517:GLY:CA	1:7:518:ALA:HB2	2.51	0.41
1:8:277:ASN:O	1:8:278:THR:C	2.64	0.41
1:8:399:MET:HE2	1:8:428:THR:HG22	2.02	0.41
1:A:43:GLY:HA2	1:E:229:VAL:HG22	2.02	0.40
1:A:230:LEU:HD22	1:A:234:GLU:HB3	2.02	0.40
1:A:507:ILE:HG23	1:A:508:ASN:N	2.23	0.40
1:B:258:LEU:HD23	1:J:194:ILE:HG21	2.03	0.40
1:B:357:TYR:O	1:B:359:THR:N	2.55	0.40
1:B:476:ILE:HD13	1:B:476:ILE:HG21	1.83	0.40
1:B:516:ASN:CG	1:B:517:GLY:N	2.78	0.40
1:D:493:ARG:H	1:M:495:THR:HG23	1.85	0.40
1:E:171:HIS:HA	1:E:172:PRO:HD3	1.93	0.40
1:E:182:PRO:C	1:E:184:GLN:N	2.78	0.40
1:E:194:ILE:HG21	1:F:258:LEU:HD23	2.03	0.40
1:E:246:TRP:HH2	1:E:479:GLU:HG2	1.86	0.40
1:F:75:THR:HA	1:F:91:VAL:HA	2.03	0.40
1:F:246:TRP:HH2	1:F:479:GLU:HG2	1.86	0.40
1:G:107:PHE:C	1:G:412:ARG:HH12	2.19	0.40
1:H:90:CYS:HB2	1:Y:262:PRO:HG2	2.01	0.40
1:H:261:ASN:ND2	1:H:264:VAL:HG23	2.36	0.40
1:H:410:VAL:H	1:H:531:VAL:HG22	1.86	0.40
1:H:512:HIS:CD2	1:I:219:PHE:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:378:LEU:HD13	1:I:378:LEU:HA	1.90	0.40
1:J:121:ARG:HG2	1:J:248:ASN:ND2	2.35	0.40
1:J:182:PRO:C	1:J:184:GLN:N	2.79	0.40
1:J:492:ARG:O	1:J:534:ASN:HB2	2.20	0.40
1:K:41:THR:HG21	1:K:235:SER:CB	2.46	0.40
1:K:219:PHE:HB2	1:7:512:HIS:CD2	2.56	0.40
1:K:512:HIS:CD2	1:L:219:PHE:HB2	2.56	0.40
1:K:517:GLY:CA	1:K:518:ALA:HB2	2.51	0.40
1:M:194:ILE:HG21	1:2:258:LEU:HD23	2.03	0.40
1:N:73:TYR:CE1	1:N:93:THR:HG22	2.56	0.40
1:O:275:ASN:HB3	1:O:276:GLY:CA	2.45	0.40
1:P:261:ASN:ND2	1:P:264:VAL:HG23	2.36	0.40
1:P:399:MET:CE	1:P:428:THR:HG22	2.51	0.40
1:R:73:TYR:CE1	1:R:93:THR:HG22	2.56	0.40
1:R:277:ASN:O	1:R:278:THR:C	2.64	0.40
1:S:230:LEU:HD22	1:S:234:GLU:HB3	2.02	0.40
1:S:496:ALA:HA	1:S:499:LEU:HG	2.01	0.40
1:S:507:ILE:HG23	1:S:508:ASN:OD1	2.21	0.40
1:T:292:THR:HG22	1:4:337:GLY:O	2.21	0.40
1:T:399:MET:CE	1:T:428:THR:HG22	2.51	0.40
1:W:169:ALA:HB2	1:W:191:TYR:HE1	1.86	0.40
1:W:277:ASN:O	1:W:278:THR:C	2.64	0.40
1:X:169:ALA:HB2	1:X:191:TYR:HE1	1.86	0.40
1:X:277:ASN:O	1:X:278:THR:C	2.64	0.40
1:Y:73:TYR:CE1	1:Y:93:THR:HG22	2.56	0.40
1:Y:169:ALA:HB2	1:Y:191:TYR:HE1	1.86	0.40
1:Y:277:ASN:O	1:Y:278:THR:C	2.64	0.40
1:Y:399:MET:CE	1:Y:428:THR:HG22	2.51	0.40
1:Y:517:GLY:CA	1:Y:518:ALA:HB2	2.51	0.40
1:2:73:TYR:CE1	1:2:93:THR:HG22	2.56	0.40
1:2:357:TYR:O	1:2:359:THR:N	2.55	0.40
1:6:219:PHE:HB2	1:t:512:HIS:CD2	2.56	0.40
1:6:407:ARG:HE	1:6:430:ASP:CB	2.32	0.40
1:a:73:TYR:CE1	1:a:93:THR:HG22	2.56	0.40
1:a:525:TRP:HB3	1:a:526:ASP:OD1	2.21	0.40
1:c:121:ARG:HG2	1:c:248:ASN:ND2	2.35	0.40
1:c:182:PRO:C	1:c:184:GLN:N	2.79	0.40
1:c:194:ILE:HG21	1:e:258:LEU:HD23	2.03	0.40
1:d:107:PHE:C	1:d:412:ARG:HH12	2.19	0.40
1:d:219:PHE:HB2	1:f:512:HIS:CD2	2.56	0.40
1:e:357:TYR:O	1:e:359:THR:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:219:PHE:HB2	1:h:512:HIS:CD2	2.56	0.40
1:f:517:GLY:CA	1:f:518:ALA:HB2	2.51	0.40
1:h:244:CYS:SG	1:h:436:ILE:HD13	2.61	0.40
1:h:507:ILE:HG23	1:h:508:ASN:OD1	2.21	0.40
1:i:43:GLY:HA2	1:7:229:VAL:HG22	2.03	0.40
1:i:261:ASN:ND2	1:i:264:VAL:HG23	2.37	0.40
1:j:41:THR:HG21	1:j:235:SER:CB	2.46	0.40
1:j:357:TYR:O	1:j:359:THR:N	2.55	0.40
1:j:507:ILE:HG23	1:j:508:ASN:OD1	2.21	0.40
1:j:525:TRP:HB3	1:j:526:ASP:OD1	2.21	0.40
1:k:378:LEU:HD13	1:k:378:LEU:HA	1.90	0.40
1:l:261:ASN:ND2	1:l:264:VAL:HG23	2.37	0.40
1:m:357:TYR:O	1:m:359:THR:N	2.55	0.40
1:n:313:THR:OG1	1:p:270:GLN:OE1	2.36	0.40
1:n:407:ARG:HE	1:n:430:ASP:CB	2.32	0.40
1:o:261:ASN:ND2	1:o:264:VAL:HG23	2.36	0.40
1:o:304:GLN:C	1:o:315:ALA:HB2	2.46	0.40
1:o:399:MET:CE	1:o:428:THR:HG22	2.51	0.40
1:p:512:HIS:CD2	1:q:219:PHE:HB2	2.56	0.40
1:r:73:TYR:CE1	1:r:93:THR:HG22	2.56	0.40
1:r:357:TYR:O	1:r:359:THR:N	2.55	0.40
1:u:244:CYS:SG	1:u:436:ILE:HD13	2.61	0.40
1:v:182:PRO:C	1:v:184:GLN:N	2.79	0.40
1:w:230:LEU:HD22	1:w:234:GLU:HB3	2.02	0.40
1:w:496:ALA:HA	1:w:499:LEU:HG	2.01	0.40
1:w:517:GLY:CA	1:w:518:ALA:HB2	2.51	0.40
1:x:73:TYR:CE1	1:x:93:THR:HG22	2.56	0.40
1:x:277:ASN:O	1:x:278:THR:C	2.64	0.40
1:x:410:VAL:H	1:x:531:VAL:HG22	1.87	0.40
1:x:517:GLY:CA	1:x:518:ALA:HB2	2.51	0.40
1:y:230:LEU:HD22	1:y:234:GLU:HB3	2.02	0.40
1:7:244:CYS:SG	1:7:436:ILE:HD13	2.61	0.40
1:7:507:ILE:HG23	1:7:508:ASN:OD1	2.21	0.40
1:7:525:TRP:HB3	1:7:526:ASP:OD1	2.21	0.40
1:A:261:ASN:ND2	1:A:264:VAL:HG23	2.37	0.40
1:A:304:GLN:C	1:A:315:ALA:HB2	2.45	0.40
1:A:525:TRP:HB3	1:A:526:ASP:OD1	2.21	0.40
1:B:407:ARG:HE	1:B:430:ASP:CB	2.32	0.40
1:D:517:GLY:CA	1:D:518:ALA:HB2	2.51	0.40
1:E:230:LEU:HD22	1:E:234:GLU:HB3	2.02	0.40
1:E:244:CYS:SG	1:E:436:ILE:HD13	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:261:ASN:ND2	1:E:264:VAL:HG23	2.37	0.40
1:E:277:ASN:O	1:E:278:THR:C	2.64	0.40
1:F:507:ILE:HG23	1:F:508:ASN:N	2.23	0.40
1:F:525:TRP:HB3	1:F:526:ASP:OD1	2.21	0.40
1:G:275:ASN:HB3	1:G:276:GLY:CA	2.45	0.40
1:H:277:ASN:O	1:H:278:THR:C	2.64	0.40
1:H:507:ILE:HG23	1:H:508:ASN:OD1	2.21	0.40
1:I:357:TYR:O	1:I:359:THR:N	2.55	0.40
1:K:385:ARG:HB3	1:1:316:TRP:CZ3	2.57	0.40
1:K:407:ARG:HE	1:K:430:ASP:CB	2.32	0.40
1:K:496:ALA:HA	1:K:499:LEU:HG	2.01	0.40
1:M:507:ILE:HG23	1:M:508:ASN:OD1	2.21	0.40
1:N:244:CYS:SG	1:N:436:ILE:HD13	2.61	0.40
1:O:512:HIS:CD2	1:P:219:PHE:HB2	2.55	0.40
1:R:261:ASN:ND2	1:R:264:VAL:HG23	2.36	0.40
1:R:316:TRP:CZ3	1:U:385:ARG:HB3	2.57	0.40
1:R:410:VAL:H	1:R:531:VAL:HG22	1.87	0.40
1:S:410:VAL:H	1:S:531:VAL:HG22	1.86	0.40
1:S:512:HIS:CD2	1:4:219:PHE:HB2	2.56	0.40
1:S:517:GLY:CA	1:S:518:ALA:HB2	2.51	0.40
1:T:261:ASN:ND2	1:T:264:VAL:HG23	2.36	0.40
1:T:316:TRP:CZ3	1:f:385:ARG:HB3	2.57	0.40
1:V:73:TYR:CE1	1:V:93:THR:HG22	2.56	0.40
1:V:169:ALA:HB2	1:V:191:TYR:HE1	1.86	0.40
1:V:277:ASN:O	1:V:278:THR:C	2.64	0.40
1:Z:75:THR:HA	1:Z:91:VAL:HA	2.03	0.40
1:Z:366:ASP:HA	1:Z:367:GLY:HA2	1.77	0.40
1:Z:507:ILE:HG23	1:Z:508:ASN:N	2.23	0.40
1:1:261:ASN:ND2	1:1:264:VAL:HG23	2.36	0.40
1:1:292:THR:HG22	1:8:337:GLY:O	2.21	0.40
1:1:399:MET:CE	1:1:428:THR:HG22	2.51	0.40
1:1:493:ARG:H	1:w:495:THR:HG23	1.85	0.40
1:1:495:THR:HG23	1:w:493:ARG:H	1.86	0.40
1:4:410:VAL:H	1:4:531:VAL:HG22	1.87	0.40
1:5:43:GLY:HA2	1:b:229:VAL:HG22	2.03	0.40
1:5:75:THR:HA	1:5:91:VAL:HA	2.03	0.40
1:5:410:VAL:H	1:5:531:VAL:HG22	1.87	0.40
1:6:357:TYR:O	1:6:359:THR:N	2.55	0.40
1:6:410:VAL:H	1:6:531:VAL:HG22	1.87	0.40
1:a:261:ASN:ND2	1:a:264:VAL:HG23	2.36	0.40
1:b:357:TYR:O	1:b:359:THR:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:277:ASN:O	1:e:278:THR:C	2.64	0.40
1:f:41:THR:HG21	1:f:235:SER:CB	2.46	0.40
1:g:244:CYS:SG	1:g:436:ILE:HD13	2.61	0.40
1:h:107:PHE:C	1:h:412:ARG:HH12	2.19	0.40
1:i:505:ASP:N	1:i:505:ASP:OD1	2.52	0.40
1:m:86:LYS:HD2	1:m:86:LYS:HA	1.78	0.40
1:m:507:ILE:HG23	1:m:508:ASN:OD1	2.21	0.40
1:n:244:CYS:SG	1:n:436:ILE:HD13	2.61	0.40
1:n:410:VAL:H	1:n:531:VAL:HG22	1.86	0.40
1:n:495:THR:HG23	1:y:493:ARG:H	1.86	0.40
1:p:525:TRP:HB3	1:p:526:ASP:OD1	2.21	0.40
1:q:292:THR:HG22	1:r:337:GLY:O	2.21	0.40
1:r:258:LEU:HD23	1:s:194:ILE:HG21	2.03	0.40
1:s:261:ASN:ND2	1:s:264:VAL:HG23	2.37	0.40
1:s:507:ILE:HG23	1:s:508:ASN:OD1	2.21	0.40
1:t:75:THR:HA	1:t:91:VAL:HA	2.03	0.40
1:t:525:TRP:HB3	1:t:526:ASP:OD1	2.21	0.40
1:u:261:ASN:ND2	1:u:264:VAL:HG23	2.37	0.40
1:u:277:ASN:O	1:u:278:THR:C	2.64	0.40
1:u:292:THR:HG22	1:v:337:GLY:O	2.21	0.40
1:x:261:ASN:ND2	1:x:264:VAL:HG23	2.37	0.40
1:y:219:PHE:HB2	1:8:512:HIS:CD2	2.56	0.40
1:z:275:ASN:HB3	1:z:276:GLY:CA	2.45	0.40
1:7:493:ARG:H	1:8:495:THR:HG23	1.86	0.40
1:8:410:VAL:H	1:8:531:VAL:HG22	1.87	0.40
1:A:73:TYR:CE1	1:A:93:THR:HG22	2.56	0.40
1:A:139:ILE:HD11	1:A:467:TYR:CD2	2.50	0.40
1:A:284:ARG:HB3	1:G:357:TYR:CE2	2.56	0.40
1:A:349:ASP:HB3	1:A:352:TYR:HD2	1.87	0.40
1:B:277:ASN:O	1:B:278:THR:C	2.64	0.40
1:B:304:GLN:C	1:B:315:ALA:HB2	2.46	0.40
1:C:292:THR:HG22	1:2:337:GLY:O	2.21	0.40
1:F:337:GLY:O	1:Q:292:THR:HG22	2.21	0.40
1:F:507:ILE:HG23	1:F:508:ASN:OD1	2.21	0.40
1:G:51:THR:OG1	1:G:54:TYR:O	2.37	0.40
1:G:357:TYR:O	1:G:359:THR:N	2.55	0.40
1:G:410:VAL:H	1:G:531:VAL:HG22	1.87	0.40
1:H:43:GLY:HA2	1:I:229:VAL:HG22	2.03	0.40
1:H:75:THR:HA	1:H:91:VAL:HA	2.03	0.40
1:H:292:THR:HG22	1:W:337:GLY:O	2.21	0.40
1:J:75:THR:HA	1:J:91:VAL:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:107:PHE:C	1:J:412:ARG:HH12	2.19	0.40
1:L:277:ASN:O	1:L:278:THR:C	2.64	0.40
1:M:261:ASN:ND2	1:M:264:VAL:HG23	2.37	0.40
1:M:316:TRP:CZ3	1:2:385:ARG:HB3	2.57	0.40
1:M:337:GLY:O	1:2:292:THR:HG22	2.21	0.40
1:N:292:THR:HG22	1:P:337:GLY:O	2.21	0.40
1:N:410:VAL:H	1:N:531:VAL:HG22	1.87	0.40
1:O:277:ASN:O	1:O:278:THR:C	2.64	0.40
1:O:337:GLY:O	1:h:292:THR:HG22	2.21	0.40
1:P:304:GLN:C	1:P:315:ALA:HB2	2.45	0.40
1:P:410:VAL:H	1:P:531:VAL:HG22	1.87	0.40
1:P:492:ARG:O	1:P:534:ASN:HB2	2.20	0.40
1:Q:261:ASN:ND2	1:Q:264:VAL:HG23	2.36	0.40
1:Q:507:ILE:HG23	1:Q:508:ASN:OD1	2.21	0.40
1:R:525:TRP:HB3	1:R:526:ASP:OD1	2.21	0.40
1:S:277:ASN:O	1:S:278:THR:C	2.64	0.40
1:S:399:MET:CE	1:S:428:THR:HG22	2.51	0.40
1:T:512:HIS:CD2	1:U:219:PHE:HB2	2.56	0.40
1:U:230:LEU:HD22	1:U:234:GLU:HB3	2.02	0.40
1:U:517:GLY:CA	1:U:518:ALA:HB2	2.51	0.40
1:V:357:TYR:O	1:V:359:THR:N	2.55	0.40
1:V:517:GLY:CA	1:V:518:ALA:HB2	2.51	0.40
1:W:399:MET:CE	1:W:428:THR:HG22	2.51	0.40
1:W:525:TRP:HB3	1:W:526:ASP:OD1	2.21	0.40
1:X:219:PHE:HB2	1:6:512:HIS:CD2	2.56	0.40
1:X:337:GLY:O	1:5:292:THR:HG22	2.21	0.40
1:X:525:TRP:HB3	1:X:526:ASP:OD1	2.21	0.40
1:Y:357:TYR:O	1:Y:359:THR:N	2.55	0.40
1:Z:385:ARG:HB3	1:x:316:TRP:CZ3	2.57	0.40
1:2:277:ASN:O	1:2:278:THR:C	2.64	0.40
1:4:230:LEU:HD22	1:4:234:GLU:HB3	2.02	0.40
1:4:244:CYS:SG	1:4:436:ILE:HD13	2.61	0.40
1:4:517:GLY:CA	1:4:518:ALA:HB2	2.51	0.40
1:5:182:PRO:C	1:5:184:GLN:N	2.79	0.40
1:5:261:ASN:ND2	1:5:264:VAL:HG23	2.37	0.40
1:5:277:ASN:O	1:5:278:THR:C	2.64	0.40
1:6:277:ASN:O	1:6:278:THR:C	2.64	0.40
1:a:244:CYS:SG	1:a:436:ILE:HD13	2.61	0.40
1:a:277:ASN:O	1:a:278:THR:C	2.64	0.40
1:c:304:GLN:C	1:c:315:ALA:HB2	2.45	0.40
1:d:277:ASN:O	1:d:278:THR:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:407:ARG:HE	1:e:430:ASP:CB	2.32	0.40
1:e:410:VAL:H	1:e:531:VAL:HG22	1.87	0.40
1:f:107:PHE:C	1:f:412:ARG:HH12	2.19	0.40
1:f:261:ASN:ND2	1:f:264:VAL:HG23	2.36	0.40
1:g:246:TRP:HH2	1:g:479:GLU:HG2	1.86	0.40
1:g:385:ARG:HB3	1:h:316:TRP:CZ3	2.57	0.40
1:g:493:ARG:H	1:l:495:THR:HG23	1.86	0.40
1:h:357:TYR:O	1:h:359:THR:N	2.55	0.40
1:i:495:THR:HG23	1:z:493:ARG:H	1.86	0.40
1:n:493:ARG:H	1:y:495:THR:HG23	1.85	0.40
1:n:507:ILE:HG23	1:n:508:ASN:OD1	2.21	0.40
1:o:246:TRP:HH2	1:o:479:GLU:HG2	1.86	0.40
1:o:410:VAL:H	1:o:531:VAL:HG22	1.87	0.40
1:o:512:HIS:CD2	1:v:219:PHE:HB2	2.56	0.40
1:p:493:ARG:H	1:s:495:THR:HG23	1.85	0.40
1:q:357:TYR:O	1:q:359:THR:N	2.55	0.40
1:r:277:ASN:O	1:r:278:THR:C	2.64	0.40
1:r:292:THR:HG22	1:s:337:GLY:O	2.21	0.40
1:r:385:ARG:HB3	1:s:316:TRP:CZ3	2.57	0.40
1:r:517:GLY:CA	1:r:518:ALA:HB2	2.51	0.40
1:t:229:VAL:HG22	1:x:43:GLY:HA2	2.03	0.40
1:t:258:LEU:HD23	1:u:194:ILE:HG21	2.03	0.40
1:t:507:ILE:HG23	1:t:508:ASN:OD1	2.21	0.40
1:u:182:PRO:C	1:u:184:GLN:N	2.78	0.40
1:u:230:LEU:HD22	1:u:234:GLU:HB3	2.02	0.40
1:u:246:TRP:HH2	1:u:479:GLU:HG2	1.86	0.40
1:v:261:ASN:ND2	1:v:264:VAL:HG23	2.36	0.40
1:v:507:ILE:HG23	1:v:508:ASN:OD1	2.21	0.40
1:w:507:ILE:HG23	1:w:508:ASN:OD1	2.21	0.40
1:x:507:ILE:HG23	1:x:508:ASN:OD1	2.21	0.40
1:x:525:TRP:HB3	1:x:526:ASP:OD1	2.21	0.40
1:z:246:TRP:HH2	1:z:479:GLU:HG2	1.86	0.40
1:z:385:ARG:HB3	1:7:316:TRP:CZ3	2.57	0.40
1:7:357:TYR:O	1:7:359:THR:N	2.55	0.40
1:8:230:LEU:HD22	1:8:234:GLU:HB3	2.02	0.40
1:8:261:ASN:ND2	1:8:264:VAL:HG23	2.37	0.40
1:8:517:GLY:CA	1:8:518:ALA:HB2	2.51	0.40
1:A:244:CYS:SG	1:A:436:ILE:HD13	2.61	0.40
1:A:277:ASN:O	1:A:278:THR:C	2.64	0.40
1:A:399:MET:CE	1:A:428:THR:HG22	2.51	0.40
1:A:512:HIS:CD2	1:E:219:PHE:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:VAL:H	1:B:531:VAL:HG22	1.87	0.40
1:C:357:TYR:O	1:C:359:THR:N	2.55	0.40
1:D:182:PRO:C	1:D:184:GLN:N	2.79	0.40
1:D:495:THR:HG23	1:M:493:ARG:H	1.86	0.40
1:D:525:TRP:HB3	1:D:526:ASP:OD1	2.21	0.40
1:E:312:ASP:OD2	1:E:317:MET:HE1	2.22	0.40
1:F:261:ASN:ND2	1:F:264:VAL:HG23	2.37	0.40
1:F:312:ASP:OD2	1:F:317:MET:HE1	2.22	0.40
1:G:244:CYS:SG	1:G:245:GLU:N	2.79	0.40
1:G:399:MET:CE	1:G:428:THR:HG22	2.51	0.40
1:H:357:TYR:O	1:H:359:THR:N	2.55	0.40
1:H:516:ASN:CG	1:H:517:GLY:N	2.78	0.40
1:J:304:GLN:C	1:J:315:ALA:HB2	2.46	0.40
1:J:357:TYR:O	1:J:359:THR:N	2.55	0.40
1:J:512:HIS:CD2	1:J:219:PHE:HB2	2.56	0.40
1:K:261:ASN:ND2	1:K:264:VAL:HG23	2.36	0.40
1:K:292:THR:HG22	1:J:337:GLY:O	2.21	0.40
1:L:75:THR:HA	1:L:91:VAL:HA	2.03	0.40
1:M:304:GLN:C	1:M:315:ALA:HB2	2.46	0.40
1:N:312:ASP:OD2	1:N:317:MET:HE1	2.22	0.40
1:N:349:ASP:HB3	1:N:352:TYR:HD2	1.87	0.40
1:N:407:ARG:HE	1:N:430:ASP:CB	2.32	0.40
1:N:507:ILE:HG23	1:N:508:ASN:OD1	2.21	0.40
1:P:182:PRO:C	1:P:184:GLN:N	2.78	0.40
1:P:357:TYR:O	1:P:359:THR:N	2.55	0.40
1:Q:171:HIS:HA	1:Q:172:PRO:HD3	1.93	0.40
1:Q:246:TRP:HH2	1:Q:479:GLU:HG2	1.86	0.40
1:S:495:THR:HG23	1:T:493:ARG:H	1.85	0.40
1:T:277:ASN:O	1:T:278:THR:C	2.64	0.40
1:T:399:MET:HE2	1:T:428:THR:HG22	2.02	0.40
1:U:75:THR:HA	1:U:91:VAL:HA	2.03	0.40
1:U:244:CYS:SG	1:U:436:ILE:HD13	2.61	0.40
1:U:507:ILE:HG23	1:U:508:ASN:N	2.23	0.40
1:V:75:THR:HA	1:V:91:VAL:HA	2.03	0.40
1:V:219:PHE:HB2	1:W:512:HIS:CD2	2.56	0.40
1:X:194:ILE:HG21	1:5:258:LEU:HD23	2.03	0.40
1:X:399:MET:CE	1:X:428:THR:HG22	2.51	0.40
1:X:410:VAL:H	1:X:531:VAL:HG22	1.86	0.40
1:X:492:ARG:O	1:X:534:ASN:HB2	2.20	0.40
1:X:512:HIS:CD2	1:Y:219:PHE:HB2	2.56	0.40
1:Y:75:THR:HA	1:Y:91:VAL:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:121:ARG:HG2	1:Y:248:ASN:ND2	2.35	0.40
1:Y:493:ARG:H	1:Z:495:THR:HG23	1.85	0.40
1:Z:230:LEU:HD22	1:Z:234:GLU:HB3	2.02	0.40
1:3:75:THR:HA	1:3:91:VAL:HA	2.03	0.40
1:3:219:PHE:HB2	1:m:512:HIS:CD2	2.56	0.40
1:3:483:TYR:OH	1:3:493:ARG:NH2	2.55	0.40
1:4:261:ASN:ND2	1:4:264:VAL:HG23	2.37	0.40
1:4:399:MET:CE	1:4:428:THR:HG22	2.51	0.40
1:5:516:ASN:CG	1:5:517:GLY:N	2.78	0.40
1:6:244:CYS:SG	1:6:245:GLU:N	2.79	0.40
1:6:431:PRO:HA	1:a:402:ASN:HD21	1.87	0.40
1:a:304:GLN:C	1:a:315:ALA:HB2	2.46	0.40
1:a:349:ASP:HB3	1:a:352:TYR:HD2	1.87	0.40
1:a:493:ARG:H	1:t:495:THR:HG23	1.86	0.40
1:b:378:LEU:HD13	1:b:378:LEU:HA	1.90	0.40
1:d:75:THR:HA	1:d:91:VAL:HA	2.03	0.40
1:d:349:ASP:HB3	1:d:352:TYR:HD2	1.87	0.40
1:e:304:GLN:C	1:e:315:ALA:HB2	2.46	0.40
1:f:277:ASN:O	1:f:278:THR:C	2.64	0.40
1:f:304:GLN:C	1:f:315:ALA:HB2	2.45	0.40
1:f:407:ARG:HE	1:f:430:ASP:CB	2.32	0.40
1:g:261:ASN:ND2	1:g:264:VAL:HG23	2.37	0.40
1:h:229:VAL:HG22	1:l:43:GLY:HA2	2.03	0.40
1:i:244:CYS:SG	1:i:436:ILE:HD13	2.61	0.40
1:i:483:TYR:OH	1:i:493:ARG:NH2	2.55	0.40
1:k:75:THR:HA	1:k:91:VAL:HA	2.03	0.40
1:k:505:ASP:N	1:k:505:ASP:OD1	2.52	0.40
1:l:244:CYS:SG	1:l:436:ILE:HD13	2.61	0.40
1:n:292:THR:HG22	1:o:337:GLY:O	2.21	0.40
1:n:349:ASP:HB3	1:n:352:TYR:HD2	1.87	0.40
1:o:182:PRO:C	1:o:184:GLN:N	2.78	0.40
1:o:357:TYR:O	1:o:359:THR:N	2.55	0.40
1:o:495:THR:HG23	1:u:493:ARG:H	1.86	0.40
1:p:261:ASN:ND2	1:p:264:VAL:HG23	2.36	0.40
1:p:495:THR:HG23	1:s:493:ARG:H	1.86	0.40
1:s:275:ASN:HB3	1:s:276:GLY:CA	2.45	0.40
1:s:304:GLN:C	1:s:315:ALA:HB2	2.46	0.40
1:t:261:ASN:ND2	1:t:264:VAL:HG23	2.37	0.40
1:t:292:THR:HG22	1:u:337:GLY:O	2.21	0.40
1:t:476:ILE:HD13	1:t:476:ILE:HG21	1.83	0.40
1:u:312:ASP:OD2	1:u:317:MET:HE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:73:TYR:CE1	1:v:93:THR:HG22	2.56	0.40
1:v:246:TRP:HH2	1:v:479:GLU:HG2	1.86	0.40
1:w:277:ASN:O	1:w:278:THR:C	2.64	0.40
1:w:399:MET:CE	1:w:428:THR:HG22	2.51	0.40
1:w:410:VAL:H	1:w:531:VAL:HG22	1.87	0.40
1:w:512:HIS:CD2	1:8:219:PHE:HB2	2.56	0.40
1:y:275:ASN:HB3	1:y:276:GLY:CA	2.45	0.40
1:y:277:ASN:O	1:y:278:THR:C	2.64	0.40
1:y:378:LEU:HD13	1:y:378:LEU:HA	1.90	0.40
1:z:75:THR:HA	1:z:91:VAL:HA	2.03	0.40
1:z:244:CYS:SG	1:z:436:ILE:HD13	2.61	0.40
1:z:507:ILE:HG23	1:z:508:ASN:OD1	2.21	0.40
1:A:226:ASP:HB3	1:B:46:GLY:H	1.86	0.40
1:A:483:TYR:OH	1:A:493:ARG:NH2	2.55	0.40
1:B:349:ASP:HB3	1:B:352:TYR:HD2	1.87	0.40
1:B:517:GLY:CA	1:B:518:ALA:HB2	2.51	0.40
1:C:230:LEU:HD22	1:C:234:GLU:HB3	2.02	0.40
1:C:399:MET:CE	1:C:428:THR:HG22	2.51	0.40
1:C:410:VAL:H	1:C:531:VAL:HG22	1.86	0.40
1:D:261:ASN:ND2	1:D:264:VAL:HG23	2.36	0.40
1:E:316:TRP:CZ3	1:F:385:ARG:HB3	2.57	0.40
1:E:357:TYR:O	1:E:359:THR:N	2.54	0.40
1:E:493:ARG:H	1:P:495:THR:HG23	1.86	0.40
1:F:183:TYR:HD2	1:G:221:MET:HE3	1.86	0.40
1:F:316:TRP:CZ3	1:Q:385:ARG:HB3	2.57	0.40
1:F:512:HIS:CD2	1:G:219:PHE:HB2	2.57	0.40
1:G:75:THR:HA	1:G:91:VAL:HA	2.03	0.40
1:G:382:THR:HG22	1:I:319:GLY:C	2.47	0.40
1:G:507:ILE:HG23	1:G:508:ASN:N	2.23	0.40
1:G:507:ILE:HG23	1:G:508:ASN:OD1	2.21	0.40
1:G:512:HIS:CD2	1:W:219:PHE:HB2	2.56	0.40
1:H:182:PRO:C	1:H:184:GLN:N	2.79	0.40
1:H:258:LEU:HD23	1:W:194:ILE:HG21	2.03	0.40
1:I:59:ASN:O	1:I:473:SER:HA	2.22	0.40
1:J:312:ASP:OD2	1:J:317:MET:HE1	2.22	0.40
1:K:107:PHE:C	1:K:412:ARG:HH12	2.19	0.40
1:K:194:ILE:HG21	1:8:258:LEU:HD23	2.03	0.40
1:K:277:ASN:O	1:K:278:THR:C	2.64	0.40
1:L:349:ASP:HB3	1:L:352:TYR:HD2	1.87	0.40
1:M:277:ASN:O	1:M:278:THR:C	2.64	0.40
1:N:399:MET:CE	1:N:428:THR:HG22	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:399:MET:CE	1:O:428:THR:HG22	2.51	0.40
1:O:402:ASN:HD21	1:g:431:PRO:HA	1.87	0.40
1:P:246:TRP:HH2	1:P:479:GLU:HG2	1.86	0.40
1:Q:73:TYR:CE1	1:Q:93:THR:HG22	2.56	0.40
1:Q:399:MET:CE	1:Q:428:THR:HG22	2.51	0.40
1:R:244:CYS:SG	1:R:436:ILE:HD13	2.61	0.40
1:R:337:GLY:O	1:U:292:THR:HG22	2.21	0.40
1:R:507:ILE:HG23	1:R:508:ASN:OD1	2.21	0.40
1:T:219:PHE:HB2	1:c:512:HIS:CD2	2.56	0.40
1:T:337:GLY:O	1:f:292:THR:HG22	2.21	0.40
1:U:366:ASP:HA	1:U:367:GLY:HA2	1.77	0.40
1:Z:219:PHE:HB2	1:1:512:HIS:CD2	2.56	0.40
1:Z:244:CYS:SG	1:Z:436:ILE:HD13	2.61	0.40
1:Z:525:TRP:HB3	1:Z:526:ASP:OD1	2.21	0.40
1:1:277:ASN:O	1:1:278:THR:C	2.64	0.40
1:1:357:TYR:O	1:1:359:THR:N	2.55	0.40
1:1:366:ASP:HA	1:1:367:GLY:HA2	1.77	0.40
1:2:517:GLY:CA	1:2:518:ALA:HB2	2.51	0.40
1:3:410:VAL:H	1:3:531:VAL:HG22	1.86	0.40
1:4:366:ASP:HA	1:4:367:GLY:HA2	1.77	0.40
1:5:59:ASN:O	1:5:473:SER:HA	2.22	0.40
1:5:357:TYR:O	1:5:359:THR:N	2.55	0.40
1:6:385:ARG:HB3	1:b:316:TRP:CZ3	2.57	0.40
1:6:399:MET:CE	1:6:428:THR:HG22	2.51	0.40
1:6:507:ILE:HG23	1:6:508:ASN:OD1	2.21	0.40
1:a:139:ILE:HD11	1:a:467:TYR:CD2	2.50	0.40
1:a:226:ASP:HB3	1:e:46:GLY:H	1.86	0.40
1:a:399:MET:CE	1:a:428:THR:HG22	2.51	0.40
1:a:507:ILE:HG23	1:a:508:ASN:N	2.23	0.40
1:c:312:ASP:OD2	1:c:317:MET:HE1	2.22	0.40
1:c:357:TYR:O	1:c:359:THR:N	2.55	0.40
1:c:525:TRP:HB3	1:c:526:ASP:OD1	2.21	0.40
1:d:244:CYS:SG	1:d:436:ILE:HD13	2.61	0.40
1:e:349:ASP:HB3	1:e:352:TYR:HD2	1.87	0.40
1:e:517:GLY:CA	1:e:518:ALA:HB2	2.51	0.40
1:g:75:THR:HA	1:g:91:VAL:HA	2.03	0.40
1:g:505:ASP:N	1:g:505:ASP:OD1	2.52	0.40
1:g:507:ILE:HG23	1:g:508:ASN:OD1	2.21	0.40
1:i:349:ASP:HB3	1:i:352:TYR:HD2	1.87	0.40
1:j:507:ILE:HG23	1:j:508:ASN:N	2.23	0.40
1:j:512:HIS:CD2	1:k:219:PHE:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:517:GLY:CA	1:j:518:ALA:HB2	2.51	0.40
1:k:349:ASP:HB3	1:k:352:TYR:HD2	1.87	0.40
1:k:483:TYR:OH	1:k:493:ARG:NH2	2.55	0.40
1:l:349:ASP:HB3	1:l:352:TYR:HD2	1.87	0.40
1:l:483:TYR:OH	1:l:493:ARG:NH2	2.55	0.40
1:l:505:ASP:N	1:l:505:ASP:OD1	2.52	0.40
1:n:312:ASP:OD2	1:n:317:MET:HE1	2.22	0.40
1:n:399:MET:CE	1:n:428:THR:HG22	2.51	0.40
1:o:219:PHE:HB2	1:y:512:HIS:CD2	2.56	0.40
1:o:492:ARG:O	1:o:534:ASN:HB2	2.20	0.40
1:p:107:PHE:C	1:p:412:ARG:HH12	2.19	0.40
1:q:399:MET:CE	1:q:428:THR:HG22	2.51	0.40
1:s:277:ASN:O	1:s:278:THR:C	2.64	0.40
1:t:73:TYR:CE1	1:t:93:THR:HG22	2.56	0.40
1:t:312:ASP:OD2	1:t:317:MET:HE1	2.22	0.40
1:t:316:TRP:CZ3	1:v:385:ARG:HB3	2.57	0.40
1:t:337:GLY:O	1:v:292:THR:HG22	2.21	0.40
1:v:171:HIS:HA	1:v:172:PRO:HD3	1.93	0.40
1:v:357:TYR:O	1:v:359:THR:N	2.55	0.40
1:v:399:MET:CE	1:v:428:THR:HG22	2.51	0.40
1:w:59:ASN:O	1:w:473:SER:HA	2.22	0.40
1:w:357:TYR:O	1:w:359:THR:N	2.55	0.40
1:x:244:CYS:SG	1:x:436:ILE:HD13	2.61	0.40
1:y:399:MET:CE	1:y:428:THR:HG22	2.51	0.40
1:y:525:TRP:HB3	1:y:526:ASP:OD1	2.21	0.40
1:z:261:ASN:ND2	1:z:264:VAL:HG23	2.37	0.40
1:z:277:ASN:O	1:z:278:THR:C	2.64	0.40
1:8:399:MET:CE	1:8:428:THR:HG22	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	2	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	3	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	4	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	5	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	6	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	7	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	8	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	A	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	B	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	C	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	D	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	E	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	F	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	G	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	H	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	I	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	J	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	K	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	L	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	M	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	N	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	O	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	P	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	Q	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	R	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	S	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	T	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	U	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	V	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	W	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	X	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	Z	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	a	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	b	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	c	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	d	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	e	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	f	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	g	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	h	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	i	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	j	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	k	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	l	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	m	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	n	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	o	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	p	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	q	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	r	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	s	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	t	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	u	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	v	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	w	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	x	504/539 (94%)	413 (82%)	79 (16%)	12 (2%)	4	17
1	y	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
1	z	504/539 (94%)	414 (82%)	78 (16%)	12 (2%)	4	17
All	All	30240/32340 (94%)	24812 (82%)	4708 (16%)	720 (2%)	7	17

All (720) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	535	ILE
1	B	535	ILE
1	C	535	ILE
1	D	535	ILE
1	E	535	ILE
1	F	535	ILE
1	G	535	ILE
1	H	535	ILE
1	I	535	ILE
1	J	535	ILE
1	K	535	ILE
1	L	535	ILE
1	M	535	ILE
1	N	535	ILE
1	O	535	ILE
1	P	535	ILE
1	Q	535	ILE
1	R	535	ILE
1	S	535	ILE
1	T	535	ILE
1	U	535	ILE
1	V	535	ILE
1	W	535	ILE
1	X	535	ILE
1	Y	535	ILE
1	Z	535	ILE
1	1	535	ILE
1	2	535	ILE
1	3	535	ILE
1	4	535	ILE
1	5	535	ILE
1	6	535	ILE
1	a	535	ILE
1	b	535	ILE
1	c	535	ILE
1	d	535	ILE
1	e	535	ILE
1	f	535	ILE
1	g	535	ILE
1	h	535	ILE
1	i	535	ILE
1	j	535	ILE
1	k	535	ILE

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Mol	Chain	Res	Type
1	l	535	ILE
1	m	535	ILE
1	n	535	ILE
1	o	535	ILE
1	p	535	ILE
1	q	535	ILE
1	r	535	ILE
1	s	535	ILE
1	t	535	ILE
1	u	535	ILE
1	v	535	ILE
1	w	535	ILE
1	x	535	ILE
1	y	535	ILE
1	z	535	ILE
1	7	535	ILE
1	8	535	ILE
1	A	176	ASP
1	A	370	ILE
1	B	176	ASP
1	B	370	ILE
1	C	176	ASP
1	C	370	ILE
1	D	176	ASP
1	D	370	ILE
1	E	176	ASP
1	E	370	ILE
1	F	176	ASP
1	F	370	ILE
1	G	176	ASP
1	G	370	ILE
1	H	176	ASP
1	H	370	ILE
1	I	176	ASP
1	I	370	ILE
1	J	176	ASP
1	J	370	ILE
1	K	176	ASP
1	K	370	ILE
1	L	176	ASP
1	L	370	ILE
1	M	176	ASP

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Mol	Chain	Res	Type
1	M	370	ILE
1	N	176	ASP
1	N	370	ILE
1	O	176	ASP
1	O	370	ILE
1	P	176	ASP
1	P	370	ILE
1	Q	176	ASP
1	Q	370	ILE
1	R	176	ASP
1	R	370	ILE
1	S	176	ASP
1	S	370	ILE
1	T	176	ASP
1	T	370	ILE
1	U	176	ASP
1	U	370	ILE
1	V	176	ASP
1	V	370	ILE
1	W	176	ASP
1	W	370	ILE
1	X	176	ASP
1	X	370	ILE
1	Y	176	ASP
1	Y	370	ILE
1	Z	176	ASP
1	Z	370	ILE
1	1	176	ASP
1	1	370	ILE
1	2	176	ASP
1	2	370	ILE
1	3	176	ASP
1	3	370	ILE
1	4	176	ASP
1	4	370	ILE
1	5	176	ASP
1	5	370	ILE
1	6	176	ASP
1	6	370	ILE
1	a	176	ASP
1	a	370	ILE
1	b	176	ASP

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Mol	Chain	Res	Type
1	b	370	ILE
1	c	176	ASP
1	c	370	ILE
1	d	176	ASP
1	d	370	ILE
1	e	176	ASP
1	e	370	ILE
1	f	176	ASP
1	f	370	ILE
1	g	176	ASP
1	g	370	ILE
1	h	176	ASP
1	h	370	ILE
1	i	176	ASP
1	i	370	ILE
1	j	176	ASP
1	j	370	ILE
1	k	176	ASP
1	k	370	ILE
1	l	176	ASP
1	l	370	ILE
1	m	176	ASP
1	m	370	ILE
1	n	176	ASP
1	n	370	ILE
1	o	176	ASP
1	o	370	ILE
1	p	176	ASP
1	p	370	ILE
1	q	176	ASP
1	q	370	ILE
1	r	176	ASP
1	r	370	ILE
1	s	176	ASP
1	s	370	ILE
1	t	176	ASP
1	t	370	ILE
1	u	176	ASP
1	u	370	ILE
1	v	176	ASP
1	v	370	ILE
1	w	176	ASP

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Mol	Chain	Res	Type
1	w	370	ILE
1	x	176	ASP
1	x	370	ILE
1	y	176	ASP
1	y	370	ILE
1	z	176	ASP
1	z	370	ILE
1	7	176	ASP
1	7	370	ILE
1	8	176	ASP
1	8	370	ILE
1	A	507	ILE
1	B	507	ILE
1	C	507	ILE
1	D	507	ILE
1	E	507	ILE
1	F	507	ILE
1	G	507	ILE
1	H	507	ILE
1	I	507	ILE
1	J	507	ILE
1	K	507	ILE
1	L	507	ILE
1	M	507	ILE
1	N	507	ILE
1	O	507	ILE
1	P	507	ILE
1	Q	507	ILE
1	R	507	ILE
1	S	507	ILE
1	T	507	ILE
1	U	507	ILE
1	V	507	ILE
1	W	507	ILE
1	X	507	ILE
1	Y	507	ILE
1	Z	507	ILE
1	1	507	ILE
1	2	507	ILE
1	3	507	ILE
1	4	507	ILE
1	5	507	ILE

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Mol	Chain	Res	Type
1	6	507	ILE
1	a	507	ILE
1	b	507	ILE
1	c	507	ILE
1	d	507	ILE
1	e	507	ILE
1	f	507	ILE
1	g	507	ILE
1	h	507	ILE
1	i	507	ILE
1	j	507	ILE
1	k	507	ILE
1	l	507	ILE
1	m	507	ILE
1	n	507	ILE
1	o	507	ILE
1	p	507	ILE
1	q	507	ILE
1	r	507	ILE
1	s	507	ILE
1	t	507	ILE
1	u	507	ILE
1	v	507	ILE
1	w	507	ILE
1	x	507	ILE
1	y	507	ILE
1	z	507	ILE
1	7	507	ILE
1	8	507	ILE
1	A	146	VAL
1	A	201	ALA
1	B	146	VAL
1	B	201	ALA
1	C	146	VAL
1	C	161	ASP
1	C	201	ALA
1	D	146	VAL
1	D	201	ALA
1	E	146	VAL
1	E	161	ASP
1	E	201	ALA
1	F	146	VAL

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Mol	Chain	Res	Type
1	F	161	ASP
1	F	201	ALA
1	F	513	VAL
1	G	146	VAL
1	G	201	ALA
1	H	146	VAL
1	H	201	ALA
1	I	146	VAL
1	I	161	ASP
1	I	201	ALA
1	J	146	VAL
1	J	201	ALA
1	K	146	VAL
1	K	201	ALA
1	L	146	VAL
1	L	201	ALA
1	L	513	VAL
1	M	146	VAL
1	M	161	ASP
1	M	201	ALA
1	N	146	VAL
1	N	201	ALA
1	O	146	VAL
1	O	201	ALA
1	P	146	VAL
1	P	161	ASP
1	P	201	ALA
1	Q	146	VAL
1	Q	201	ALA
1	R	146	VAL
1	R	161	ASP
1	R	201	ALA
1	R	513	VAL
1	S	146	VAL
1	S	201	ALA
1	T	146	VAL
1	T	201	ALA
1	T	513	VAL
1	U	146	VAL
1	U	201	ALA
1	V	146	VAL
1	V	201	ALA

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Mol	Chain	Res	Type
1	W	146	VAL
1	W	161	ASP
1	W	201	ALA
1	X	146	VAL
1	X	201	ALA
1	X	513	VAL
1	Y	146	VAL
1	Y	201	ALA
1	Z	146	VAL
1	Z	201	ALA
1	1	146	VAL
1	1	201	ALA
1	2	146	VAL
1	2	201	ALA
1	3	146	VAL
1	3	201	ALA
1	4	146	VAL
1	4	161	ASP
1	4	201	ALA
1	5	146	VAL
1	5	201	ALA
1	6	146	VAL
1	6	161	ASP
1	6	201	ALA
1	a	146	VAL
1	a	161	ASP
1	a	201	ALA
1	b	146	VAL
1	b	161	ASP
1	b	201	ALA
1	c	146	VAL
1	c	201	ALA
1	d	146	VAL
1	d	201	ALA
1	d	513	VAL
1	e	146	VAL
1	e	161	ASP
1	e	201	ALA
1	f	146	VAL
1	f	201	ALA
1	g	146	VAL
1	g	161	ASP

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Mol	Chain	Res	Type
1	g	201	ALA
1	h	146	VAL
1	h	161	ASP
1	h	201	ALA
1	i	146	VAL
1	i	201	ALA
1	j	146	VAL
1	j	201	ALA
1	k	146	VAL
1	k	201	ALA
1	l	146	VAL
1	l	161	ASP
1	l	201	ALA
1	l	513	VAL
1	m	146	VAL
1	m	161	ASP
1	m	201	ALA
1	n	146	VAL
1	n	201	ALA
1	o	146	VAL
1	o	201	ALA
1	p	146	VAL
1	p	201	ALA
1	q	146	VAL
1	q	201	ALA
1	r	146	VAL
1	r	201	ALA
1	r	513	VAL
1	s	146	VAL
1	s	201	ALA
1	t	146	VAL
1	t	201	ALA
1	u	146	VAL
1	u	161	ASP
1	u	201	ALA
1	v	146	VAL
1	v	201	ALA
1	w	146	VAL
1	w	201	ALA
1	x	146	VAL
1	x	201	ALA
1	y	146	VAL

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Mol	Chain	Res	Type
1	y	201	ALA
1	z	146	VAL
1	z	161	ASP
1	z	201	ALA
1	7	146	VAL
1	7	161	ASP
1	7	201	ALA
1	8	146	VAL
1	8	201	ALA
1	A	161	ASP
1	A	461	ASP
1	A	513	VAL
1	B	161	ASP
1	B	461	ASP
1	B	513	VAL
1	C	461	ASP
1	C	513	VAL
1	D	161	ASP
1	D	461	ASP
1	D	513	VAL
1	E	461	ASP
1	E	513	VAL
1	F	461	ASP
1	G	161	ASP
1	G	461	ASP
1	G	513	VAL
1	H	161	ASP
1	H	461	ASP
1	H	513	VAL
1	I	461	ASP
1	I	513	VAL
1	J	161	ASP
1	J	461	ASP
1	J	513	VAL
1	K	161	ASP
1	K	461	ASP
1	K	513	VAL
1	L	161	ASP
1	L	461	ASP
1	M	461	ASP
1	M	513	VAL
1	N	161	ASP

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Mol	Chain	Res	Type
1	N	461	ASP
1	N	513	VAL
1	O	161	ASP
1	O	461	ASP
1	O	513	VAL
1	P	461	ASP
1	P	513	VAL
1	Q	161	ASP
1	Q	461	ASP
1	Q	513	VAL
1	R	461	ASP
1	S	161	ASP
1	S	461	ASP
1	S	513	VAL
1	T	161	ASP
1	T	461	ASP
1	U	161	ASP
1	U	461	ASP
1	U	513	VAL
1	V	161	ASP
1	V	461	ASP
1	V	513	VAL
1	W	461	ASP
1	W	513	VAL
1	X	161	ASP
1	X	461	ASP
1	Y	161	ASP
1	Y	461	ASP
1	Y	513	VAL
1	Z	161	ASP
1	Z	461	ASP
1	Z	513	VAL
1	1	161	ASP
1	1	461	ASP
1	1	513	VAL
1	2	161	ASP
1	2	461	ASP
1	2	513	VAL
1	3	161	ASP
1	3	461	ASP
1	3	513	VAL
1	4	461	ASP

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Mol	Chain	Res	Type
1	4	513	VAL
1	5	161	ASP
1	5	461	ASP
1	5	513	VAL
1	6	461	ASP
1	6	513	VAL
1	a	461	ASP
1	a	513	VAL
1	b	461	ASP
1	b	513	VAL
1	c	161	ASP
1	c	461	ASP
1	c	513	VAL
1	d	161	ASP
1	d	461	ASP
1	e	461	ASP
1	e	513	VAL
1	f	161	ASP
1	f	461	ASP
1	f	513	VAL
1	g	461	ASP
1	g	513	VAL
1	h	461	ASP
1	h	513	VAL
1	i	161	ASP
1	i	461	ASP
1	i	513	VAL
1	j	161	ASP
1	j	461	ASP
1	j	513	VAL
1	k	161	ASP
1	k	461	ASP
1	k	513	VAL
1	l	461	ASP
1	m	461	ASP
1	m	513	VAL
1	n	161	ASP
1	n	461	ASP
1	n	513	VAL
1	o	161	ASP
1	o	461	ASP
1	o	513	VAL

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Mol	Chain	Res	Type
1	p	161	ASP
1	p	461	ASP
1	p	513	VAL
1	q	161	ASP
1	q	461	ASP
1	q	513	VAL
1	r	161	ASP
1	r	461	ASP
1	s	161	ASP
1	s	461	ASP
1	s	513	VAL
1	t	161	ASP
1	t	461	ASP
1	t	513	VAL
1	u	461	ASP
1	u	513	VAL
1	v	161	ASP
1	v	461	ASP
1	v	513	VAL
1	w	161	ASP
1	w	461	ASP
1	w	513	VAL
1	x	161	ASP
1	x	461	ASP
1	x	513	VAL
1	y	161	ASP
1	y	461	ASP
1	y	513	VAL
1	z	461	ASP
1	z	513	VAL
1	7	461	ASP
1	7	513	VAL
1	8	161	ASP
1	8	461	ASP
1	8	513	VAL
1	A	79	ILE
1	A	136	ILE
1	B	79	ILE
1	B	136	ILE
1	C	79	ILE
1	C	136	ILE
1	D	79	ILE

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Mol	Chain	Res	Type
1	D	136	ILE
1	E	79	ILE
1	E	136	ILE
1	F	79	ILE
1	F	136	ILE
1	G	79	ILE
1	G	136	ILE
1	H	79	ILE
1	H	136	ILE
1	I	79	ILE
1	I	136	ILE
1	J	79	ILE
1	J	136	ILE
1	K	79	ILE
1	K	136	ILE
1	L	79	ILE
1	L	136	ILE
1	M	79	ILE
1	M	136	ILE
1	N	79	ILE
1	N	136	ILE
1	O	79	ILE
1	O	136	ILE
1	P	79	ILE
1	P	136	ILE
1	Q	79	ILE
1	Q	136	ILE
1	R	79	ILE
1	R	136	ILE
1	S	79	ILE
1	S	136	ILE
1	T	79	ILE
1	T	136	ILE
1	U	79	ILE
1	U	136	ILE
1	V	79	ILE
1	V	136	ILE
1	W	79	ILE
1	W	136	ILE
1	X	79	ILE
1	X	136	ILE
1	Y	79	ILE

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Mol	Chain	Res	Type
1	Y	136	ILE
1	Z	79	ILE
1	Z	136	ILE
1	1	79	ILE
1	1	136	ILE
1	2	79	ILE
1	2	136	ILE
1	3	79	ILE
1	3	136	ILE
1	4	79	ILE
1	4	136	ILE
1	5	79	ILE
1	5	136	ILE
1	6	79	ILE
1	6	136	ILE
1	a	79	ILE
1	a	136	ILE
1	b	79	ILE
1	b	136	ILE
1	c	79	ILE
1	c	136	ILE
1	d	79	ILE
1	d	136	ILE
1	e	79	ILE
1	e	136	ILE
1	f	79	ILE
1	f	136	ILE
1	g	79	ILE
1	g	136	ILE
1	h	79	ILE
1	h	136	ILE
1	i	79	ILE
1	i	136	ILE
1	j	79	ILE
1	j	136	ILE
1	k	79	ILE
1	k	136	ILE
1	l	79	ILE
1	l	136	ILE
1	m	79	ILE
1	m	136	ILE
1	n	79	ILE

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Mol	Chain	Res	Type
1	n	136	ILE
1	o	79	ILE
1	o	136	ILE
1	p	79	ILE
1	p	136	ILE
1	q	79	ILE
1	q	136	ILE
1	r	79	ILE
1	r	136	ILE
1	s	79	ILE
1	s	136	ILE
1	t	79	ILE
1	t	136	ILE
1	u	79	ILE
1	u	136	ILE
1	v	79	ILE
1	v	136	ILE
1	w	79	ILE
1	w	136	ILE
1	x	79	ILE
1	x	136	ILE
1	y	79	ILE
1	y	136	ILE
1	z	79	ILE
1	z	136	ILE
1	7	79	ILE
1	7	136	ILE
1	8	79	ILE
1	8	136	ILE
1	A	327	ILE
1	B	327	ILE
1	C	327	ILE
1	D	327	ILE
1	E	327	ILE
1	F	327	ILE
1	G	327	ILE
1	H	327	ILE
1	I	327	ILE
1	J	327	ILE
1	K	327	ILE
1	L	327	ILE
1	M	327	ILE

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Mol	Chain	Res	Type
1	N	327	ILE
1	O	327	ILE
1	P	327	ILE
1	Q	327	ILE
1	R	327	ILE
1	S	327	ILE
1	T	327	ILE
1	U	327	ILE
1	V	327	ILE
1	W	327	ILE
1	X	327	ILE
1	Y	327	ILE
1	Z	327	ILE
1	1	327	ILE
1	2	327	ILE
1	3	327	ILE
1	4	327	ILE
1	5	327	ILE
1	6	327	ILE
1	a	327	ILE
1	b	327	ILE
1	c	327	ILE
1	d	327	ILE
1	e	327	ILE
1	f	327	ILE
1	g	327	ILE
1	h	327	ILE
1	i	327	ILE
1	j	327	ILE
1	k	327	ILE
1	l	327	ILE
1	m	327	ILE
1	n	327	ILE
1	o	327	ILE
1	p	327	ILE
1	q	327	ILE
1	r	327	ILE
1	s	327	ILE
1	t	327	ILE
1	u	327	ILE
1	v	327	ILE
1	w	327	ILE

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Mol	Chain	Res	Type
1	x	327	ILE
1	y	327	ILE
1	z	327	ILE
1	7	327	ILE
1	8	327	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	439/461 (95%)	439 (100%)	0	100	100
1	2	439/461 (95%)	439 (100%)	0	100	100
1	3	439/461 (95%)	439 (100%)	0	100	100
1	4	439/461 (95%)	439 (100%)	0	100	100
1	5	439/461 (95%)	439 (100%)	0	100	100
1	6	439/461 (95%)	439 (100%)	0	100	100
1	7	439/461 (95%)	439 (100%)	0	100	100
1	8	439/461 (95%)	439 (100%)	0	100	100
1	A	439/461 (95%)	439 (100%)	0	100	100
1	B	439/461 (95%)	439 (100%)	0	100	100
1	C	439/461 (95%)	439 (100%)	0	100	100
1	D	439/461 (95%)	439 (100%)	0	100	100
1	E	439/461 (95%)	439 (100%)	0	100	100
1	F	439/461 (95%)	439 (100%)	0	100	100
1	G	439/461 (95%)	439 (100%)	0	100	100
1	H	439/461 (95%)	439 (100%)	0	100	100
1	I	439/461 (95%)	439 (100%)	0	100	100
1	J	439/461 (95%)	439 (100%)	0	100	100
1	K	439/461 (95%)	439 (100%)	0	100	100
1	L	439/461 (95%)	439 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	M	439/461 (95%)	439 (100%)	0	100	100
1	N	439/461 (95%)	439 (100%)	0	100	100
1	O	439/461 (95%)	439 (100%)	0	100	100
1	P	439/461 (95%)	439 (100%)	0	100	100
1	Q	439/461 (95%)	439 (100%)	0	100	100
1	R	439/461 (95%)	439 (100%)	0	100	100
1	S	439/461 (95%)	439 (100%)	0	100	100
1	T	439/461 (95%)	439 (100%)	0	100	100
1	U	439/461 (95%)	439 (100%)	0	100	100
1	V	439/461 (95%)	439 (100%)	0	100	100
1	W	439/461 (95%)	439 (100%)	0	100	100
1	X	439/461 (95%)	439 (100%)	0	100	100
1	Y	439/461 (95%)	439 (100%)	0	100	100
1	Z	439/461 (95%)	439 (100%)	0	100	100
1	a	439/461 (95%)	439 (100%)	0	100	100
1	b	439/461 (95%)	439 (100%)	0	100	100
1	c	439/461 (95%)	439 (100%)	0	100	100
1	d	439/461 (95%)	439 (100%)	0	100	100
1	e	439/461 (95%)	439 (100%)	0	100	100
1	f	439/461 (95%)	439 (100%)	0	100	100
1	g	439/461 (95%)	439 (100%)	0	100	100
1	h	439/461 (95%)	439 (100%)	0	100	100
1	i	439/461 (95%)	439 (100%)	0	100	100
1	j	439/461 (95%)	439 (100%)	0	100	100
1	k	439/461 (95%)	439 (100%)	0	100	100
1	l	439/461 (95%)	439 (100%)	0	100	100
1	m	439/461 (95%)	439 (100%)	0	100	100
1	n	439/461 (95%)	439 (100%)	0	100	100
1	o	439/461 (95%)	439 (100%)	0	100	100
1	p	439/461 (95%)	439 (100%)	0	100	100
1	q	439/461 (95%)	439 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	r	439/461 (95%)	439 (100%)	0	100	100
1	s	439/461 (95%)	439 (100%)	0	100	100
1	t	439/461 (95%)	439 (100%)	0	100	100
1	u	439/461 (95%)	439 (100%)	0	100	100
1	v	439/461 (95%)	439 (100%)	0	100	100
1	w	439/461 (95%)	439 (100%)	0	100	100
1	x	439/461 (95%)	439 (100%)	0	100	100
1	y	439/461 (95%)	439 (100%)	0	100	100
1	z	439/461 (95%)	439 (100%)	0	100	100
All	All	26340/27660 (95%)	26340 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (870) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	59	ASN
1	A	62	GLN
1	A	102	GLN
1	A	110	GLN
1	A	128	HIS
1	A	157	HIS
1	A	164	HIS
1	A	227	HIS
1	A	248	ASN
1	A	261	ASN
1	A	275	ASN
1	A	355	GLN
1	A	358	GLN
1	A	388	GLN
1	A	512	HIS
1	B	59	ASN
1	B	62	GLN
1	B	102	GLN
1	B	110	GLN
1	B	128	HIS
1	B	157	HIS
1	B	164	HIS
1	B	190	GLN

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Mol	Chain	Res	Type
1	B	248	ASN
1	B	261	ASN
1	B	275	ASN
1	B	355	GLN
1	B	358	GLN
1	B	388	GLN
1	C	59	ASN
1	C	62	GLN
1	C	102	GLN
1	C	110	GLN
1	C	128	HIS
1	C	157	HIS
1	C	164	HIS
1	C	227	HIS
1	C	248	ASN
1	C	261	ASN
1	C	275	ASN
1	C	355	GLN
1	C	358	GLN
1	C	388	GLN
1	D	59	ASN
1	D	62	GLN
1	D	102	GLN
1	D	110	GLN
1	D	128	HIS
1	D	157	HIS
1	D	164	HIS
1	D	227	HIS
1	D	248	ASN
1	D	261	ASN
1	D	275	ASN
1	D	355	GLN
1	D	358	GLN
1	D	388	GLN
1	E	59	ASN
1	E	62	GLN
1	E	102	GLN
1	E	110	GLN
1	E	128	HIS
1	E	157	HIS
1	E	164	HIS
1	E	227	HIS

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Mol	Chain	Res	Type
1	E	248	ASN
1	E	261	ASN
1	E	275	ASN
1	E	355	GLN
1	E	358	GLN
1	E	388	GLN
1	F	59	ASN
1	F	62	GLN
1	F	102	GLN
1	F	110	GLN
1	F	128	HIS
1	F	157	HIS
1	F	164	HIS
1	F	227	HIS
1	F	248	ASN
1	F	261	ASN
1	F	275	ASN
1	F	355	GLN
1	F	358	GLN
1	F	388	GLN
1	G	59	ASN
1	G	62	GLN
1	G	102	GLN
1	G	110	GLN
1	G	128	HIS
1	G	157	HIS
1	G	164	HIS
1	G	227	HIS
1	G	248	ASN
1	G	275	ASN
1	G	355	GLN
1	G	358	GLN
1	G	388	GLN
1	H	59	ASN
1	H	62	GLN
1	H	102	GLN
1	H	110	GLN
1	H	128	HIS
1	H	157	HIS
1	H	164	HIS
1	H	184	GLN
1	H	227	HIS

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Mol	Chain	Res	Type
1	H	248	ASN
1	H	261	ASN
1	H	275	ASN
1	H	355	GLN
1	H	358	GLN
1	H	388	GLN
1	I	59	ASN
1	I	62	GLN
1	I	102	GLN
1	I	110	GLN
1	I	128	HIS
1	I	157	HIS
1	I	164	HIS
1	I	184	GLN
1	I	190	GLN
1	I	227	HIS
1	I	248	ASN
1	I	261	ASN
1	I	275	ASN
1	I	355	GLN
1	I	358	GLN
1	I	388	GLN
1	J	59	ASN
1	J	62	GLN
1	J	102	GLN
1	J	110	GLN
1	J	128	HIS
1	J	157	HIS
1	J	164	HIS
1	J	190	GLN
1	J	227	HIS
1	J	248	ASN
1	J	261	ASN
1	J	275	ASN
1	J	355	GLN
1	J	358	GLN
1	J	388	GLN
1	K	59	ASN
1	K	62	GLN
1	K	102	GLN
1	K	110	GLN
1	K	128	HIS

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Mol	Chain	Res	Type
1	K	157	HIS
1	K	164	HIS
1	K	184	GLN
1	K	190	GLN
1	K	227	HIS
1	K	248	ASN
1	K	261	ASN
1	K	275	ASN
1	K	355	GLN
1	K	358	GLN
1	K	388	GLN
1	L	59	ASN
1	L	62	GLN
1	L	102	GLN
1	L	110	GLN
1	L	128	HIS
1	L	157	HIS
1	L	164	HIS
1	L	227	HIS
1	L	248	ASN
1	L	261	ASN
1	L	275	ASN
1	L	355	GLN
1	L	358	GLN
1	L	388	GLN
1	M	59	ASN
1	M	62	GLN
1	M	102	GLN
1	M	110	GLN
1	M	128	HIS
1	M	157	HIS
1	M	164	HIS
1	M	227	HIS
1	M	248	ASN
1	M	261	ASN
1	M	275	ASN
1	M	355	GLN
1	M	358	GLN
1	M	388	GLN
1	N	59	ASN
1	N	62	GLN
1	N	102	GLN

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Mol	Chain	Res	Type
1	N	110	GLN
1	N	128	HIS
1	N	157	HIS
1	N	164	HIS
1	N	190	GLN
1	N	227	HIS
1	N	248	ASN
1	N	261	ASN
1	N	275	ASN
1	N	355	GLN
1	N	358	GLN
1	N	388	GLN
1	O	62	GLN
1	O	102	GLN
1	O	110	GLN
1	O	128	HIS
1	O	157	HIS
1	O	164	HIS
1	O	184	GLN
1	O	227	HIS
1	O	248	ASN
1	O	261	ASN
1	O	275	ASN
1	O	355	GLN
1	O	358	GLN
1	O	388	GLN
1	P	62	GLN
1	P	102	GLN
1	P	110	GLN
1	P	128	HIS
1	P	157	HIS
1	P	164	HIS
1	P	227	HIS
1	P	248	ASN
1	P	261	ASN
1	P	275	ASN
1	P	355	GLN
1	P	358	GLN
1	P	388	GLN
1	Q	59	ASN
1	Q	62	GLN
1	Q	102	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	Q	110	GLN
1	Q	128	HIS
1	Q	157	HIS
1	Q	164	HIS
1	Q	184	GLN
1	Q	227	HIS
1	Q	248	ASN
1	Q	261	ASN
1	Q	275	ASN
1	Q	355	GLN
1	Q	358	GLN
1	Q	388	GLN
1	R	59	ASN
1	R	62	GLN
1	R	102	GLN
1	R	110	GLN
1	R	128	HIS
1	R	157	HIS
1	R	164	HIS
1	R	227	HIS
1	R	248	ASN
1	R	261	ASN
1	R	275	ASN
1	R	355	GLN
1	R	358	GLN
1	R	388	GLN
1	S	59	ASN
1	S	62	GLN
1	S	102	GLN
1	S	110	GLN
1	S	128	HIS
1	S	157	HIS
1	S	164	HIS
1	S	190	GLN
1	S	227	HIS
1	S	248	ASN
1	S	261	ASN
1	S	275	ASN
1	S	355	GLN
1	S	358	GLN
1	S	388	GLN
1	T	59	ASN

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Mol	Chain	Res	Type
1	T	62	GLN
1	T	102	GLN
1	T	110	GLN
1	T	128	HIS
1	T	157	HIS
1	T	164	HIS
1	T	227	HIS
1	T	248	ASN
1	T	261	ASN
1	T	275	ASN
1	T	355	GLN
1	T	358	GLN
1	T	388	GLN
1	U	59	ASN
1	U	62	GLN
1	U	102	GLN
1	U	110	GLN
1	U	128	HIS
1	U	157	HIS
1	U	164	HIS
1	U	190	GLN
1	U	227	HIS
1	U	248	ASN
1	U	261	ASN
1	U	275	ASN
1	U	355	GLN
1	U	358	GLN
1	U	388	GLN
1	V	59	ASN
1	V	62	GLN
1	V	102	GLN
1	V	110	GLN
1	V	128	HIS
1	V	157	HIS
1	V	164	HIS
1	V	227	HIS
1	V	248	ASN
1	V	261	ASN
1	V	275	ASN
1	V	355	GLN
1	V	358	GLN
1	V	388	GLN

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Mol	Chain	Res	Type
1	W	59	ASN
1	W	62	GLN
1	W	102	GLN
1	W	110	GLN
1	W	128	HIS
1	W	157	HIS
1	W	164	HIS
1	W	184	GLN
1	W	248	ASN
1	W	261	ASN
1	W	275	ASN
1	W	355	GLN
1	W	358	GLN
1	W	388	GLN
1	X	59	ASN
1	X	62	GLN
1	X	102	GLN
1	X	110	GLN
1	X	128	HIS
1	X	157	HIS
1	X	164	HIS
1	X	227	HIS
1	X	248	ASN
1	X	261	ASN
1	X	275	ASN
1	X	355	GLN
1	X	358	GLN
1	X	388	GLN
1	Y	59	ASN
1	Y	62	GLN
1	Y	102	GLN
1	Y	110	GLN
1	Y	128	HIS
1	Y	157	HIS
1	Y	164	HIS
1	Y	227	HIS
1	Y	248	ASN
1	Y	261	ASN
1	Y	275	ASN
1	Y	355	GLN
1	Y	358	GLN
1	Y	388	GLN

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Mol	Chain	Res	Type
1	Z	59	ASN
1	Z	62	GLN
1	Z	102	GLN
1	Z	110	GLN
1	Z	128	HIS
1	Z	157	HIS
1	Z	164	HIS
1	Z	190	GLN
1	Z	227	HIS
1	Z	248	ASN
1	Z	261	ASN
1	Z	275	ASN
1	Z	355	GLN
1	Z	358	GLN
1	Z	388	GLN
1	1	59	ASN
1	1	62	GLN
1	1	102	GLN
1	1	110	GLN
1	1	128	HIS
1	1	157	HIS
1	1	164	HIS
1	1	190	GLN
1	1	227	HIS
1	1	248	ASN
1	1	261	ASN
1	1	275	ASN
1	1	355	GLN
1	1	358	GLN
1	1	388	GLN
1	2	59	ASN
1	2	62	GLN
1	2	102	GLN
1	2	110	GLN
1	2	128	HIS
1	2	157	HIS
1	2	164	HIS
1	2	227	HIS
1	2	248	ASN
1	2	261	ASN
1	2	275	ASN
1	2	355	GLN

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Mol	Chain	Res	Type
1	2	358	GLN
1	2	388	GLN
1	3	59	ASN
1	3	62	GLN
1	3	102	GLN
1	3	110	GLN
1	3	128	HIS
1	3	157	HIS
1	3	164	HIS
1	3	227	HIS
1	3	248	ASN
1	3	261	ASN
1	3	275	ASN
1	3	355	GLN
1	3	358	GLN
1	3	388	GLN
1	4	59	ASN
1	4	102	GLN
1	4	110	GLN
1	4	128	HIS
1	4	157	HIS
1	4	164	HIS
1	4	227	HIS
1	4	248	ASN
1	4	261	ASN
1	4	275	ASN
1	4	355	GLN
1	4	358	GLN
1	4	388	GLN
1	5	59	ASN
1	5	62	GLN
1	5	102	GLN
1	5	110	GLN
1	5	128	HIS
1	5	157	HIS
1	5	164	HIS
1	5	184	GLN
1	5	227	HIS
1	5	248	ASN
1	5	261	ASN
1	5	275	ASN
1	5	355	GLN

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Mol	Chain	Res	Type
1	5	358	GLN
1	5	388	GLN
1	6	59	ASN
1	6	62	GLN
1	6	102	GLN
1	6	110	GLN
1	6	128	HIS
1	6	157	HIS
1	6	164	HIS
1	6	227	HIS
1	6	248	ASN
1	6	261	ASN
1	6	275	ASN
1	6	355	GLN
1	6	358	GLN
1	6	388	GLN
1	a	59	ASN
1	a	62	GLN
1	a	102	GLN
1	a	110	GLN
1	a	128	HIS
1	a	157	HIS
1	a	164	HIS
1	a	227	HIS
1	a	248	ASN
1	a	261	ASN
1	a	275	ASN
1	a	355	GLN
1	a	358	GLN
1	a	388	GLN
1	a	512	HIS
1	b	59	ASN
1	b	62	GLN
1	b	102	GLN
1	b	110	GLN
1	b	128	HIS
1	b	157	HIS
1	b	164	HIS
1	b	184	GLN
1	b	190	GLN
1	b	227	HIS
1	b	248	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	b	261	ASN
1	b	275	ASN
1	b	355	GLN
1	b	358	GLN
1	b	388	GLN
1	c	59	ASN
1	c	62	GLN
1	c	102	GLN
1	c	110	GLN
1	c	128	HIS
1	c	157	HIS
1	c	164	HIS
1	c	190	GLN
1	c	227	HIS
1	c	248	ASN
1	c	261	ASN
1	c	275	ASN
1	c	355	GLN
1	c	358	GLN
1	c	388	GLN
1	d	59	ASN
1	d	62	GLN
1	d	102	GLN
1	d	110	GLN
1	d	128	HIS
1	d	157	HIS
1	d	164	HIS
1	d	227	HIS
1	d	248	ASN
1	d	261	ASN
1	d	275	ASN
1	d	355	GLN
1	d	358	GLN
1	d	388	GLN
1	e	59	ASN
1	e	62	GLN
1	e	102	GLN
1	e	110	GLN
1	e	128	HIS
1	e	157	HIS
1	e	164	HIS
1	e	248	ASN

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Mol	Chain	Res	Type
1	e	261	ASN
1	e	275	ASN
1	e	355	GLN
1	e	358	GLN
1	e	388	GLN
1	e	512	HIS
1	f	59	ASN
1	f	62	GLN
1	f	102	GLN
1	f	110	GLN
1	f	128	HIS
1	f	157	HIS
1	f	164	HIS
1	f	184	GLN
1	f	190	GLN
1	f	227	HIS
1	f	248	ASN
1	f	261	ASN
1	f	275	ASN
1	f	355	GLN
1	f	358	GLN
1	f	388	GLN
1	g	59	ASN
1	g	62	GLN
1	g	102	GLN
1	g	110	GLN
1	g	128	HIS
1	g	157	HIS
1	g	164	HIS
1	g	184	GLN
1	g	227	HIS
1	g	248	ASN
1	g	261	ASN
1	g	275	ASN
1	g	355	GLN
1	g	358	GLN
1	g	388	GLN
1	h	59	ASN
1	h	62	GLN
1	h	102	GLN
1	h	110	GLN
1	h	128	HIS

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Mol	Chain	Res	Type
1	h	157	HIS
1	h	164	HIS
1	h	184	GLN
1	h	227	HIS
1	h	248	ASN
1	h	261	ASN
1	h	275	ASN
1	h	355	GLN
1	h	358	GLN
1	h	388	GLN
1	i	59	ASN
1	i	62	GLN
1	i	102	GLN
1	i	110	GLN
1	i	128	HIS
1	i	157	HIS
1	i	164	HIS
1	i	227	HIS
1	i	248	ASN
1	i	261	ASN
1	i	275	ASN
1	i	355	GLN
1	i	358	GLN
1	i	388	GLN
1	j	59	ASN
1	j	62	GLN
1	j	102	GLN
1	j	110	GLN
1	j	128	HIS
1	j	157	HIS
1	j	164	HIS
1	j	190	GLN
1	j	227	HIS
1	j	248	ASN
1	j	261	ASN
1	j	275	ASN
1	j	355	GLN
1	j	358	GLN
1	j	388	GLN
1	k	59	ASN
1	k	62	GLN
1	k	102	GLN

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Mol	Chain	Res	Type
1	k	110	GLN
1	k	128	HIS
1	k	157	HIS
1	k	164	HIS
1	k	227	HIS
1	k	248	ASN
1	k	261	ASN
1	k	275	ASN
1	k	355	GLN
1	k	358	GLN
1	k	388	GLN
1	l	59	ASN
1	l	62	GLN
1	l	102	GLN
1	l	110	GLN
1	l	128	HIS
1	l	157	HIS
1	l	164	HIS
1	l	184	GLN
1	l	227	HIS
1	l	248	ASN
1	l	261	ASN
1	l	275	ASN
1	l	355	GLN
1	l	358	GLN
1	l	388	GLN
1	m	59	ASN
1	m	62	GLN
1	m	102	GLN
1	m	110	GLN
1	m	128	HIS
1	m	157	HIS
1	m	164	HIS
1	m	190	GLN
1	m	227	HIS
1	m	248	ASN
1	m	261	ASN
1	m	275	ASN
1	m	355	GLN
1	m	358	GLN
1	m	388	GLN
1	n	59	ASN

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Mol	Chain	Res	Type
1	n	62	GLN
1	n	102	GLN
1	n	110	GLN
1	n	128	HIS
1	n	157	HIS
1	n	164	HIS
1	n	227	HIS
1	n	248	ASN
1	n	261	ASN
1	n	275	ASN
1	n	355	GLN
1	n	358	GLN
1	n	388	GLN
1	o	59	ASN
1	o	62	GLN
1	o	102	GLN
1	o	110	GLN
1	o	128	HIS
1	o	157	HIS
1	o	164	HIS
1	o	227	HIS
1	o	248	ASN
1	o	261	ASN
1	o	275	ASN
1	o	355	GLN
1	o	358	GLN
1	o	388	GLN
1	p	59	ASN
1	p	62	GLN
1	p	102	GLN
1	p	110	GLN
1	p	128	HIS
1	p	157	HIS
1	p	164	HIS
1	p	184	GLN
1	p	227	HIS
1	p	248	ASN
1	p	261	ASN
1	p	275	ASN
1	p	355	GLN
1	p	358	GLN
1	p	388	GLN

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Mol	Chain	Res	Type
1	q	59	ASN
1	q	62	GLN
1	q	102	GLN
1	q	110	GLN
1	q	128	HIS
1	q	157	HIS
1	q	164	HIS
1	q	227	HIS
1	q	248	ASN
1	q	261	ASN
1	q	275	ASN
1	q	355	GLN
1	q	358	GLN
1	q	388	GLN
1	r	59	ASN
1	r	62	GLN
1	r	102	GLN
1	r	110	GLN
1	r	128	HIS
1	r	157	HIS
1	r	164	HIS
1	r	184	GLN
1	r	227	HIS
1	r	248	ASN
1	r	261	ASN
1	r	275	ASN
1	r	355	GLN
1	r	358	GLN
1	r	388	GLN
1	s	59	ASN
1	s	62	GLN
1	s	102	GLN
1	s	110	GLN
1	s	128	HIS
1	s	157	HIS
1	s	164	HIS
1	s	184	GLN
1	s	227	HIS
1	s	248	ASN
1	s	261	ASN
1	s	275	ASN
1	s	355	GLN

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Mol	Chain	Res	Type
1	s	358	GLN
1	s	388	GLN
1	t	59	ASN
1	t	62	GLN
1	t	102	GLN
1	t	110	GLN
1	t	128	HIS
1	t	157	HIS
1	t	164	HIS
1	t	227	HIS
1	t	248	ASN
1	t	261	ASN
1	t	275	ASN
1	t	355	GLN
1	t	358	GLN
1	t	388	GLN
1	u	59	ASN
1	u	62	GLN
1	u	102	GLN
1	u	110	GLN
1	u	128	HIS
1	u	157	HIS
1	u	164	HIS
1	u	227	HIS
1	u	248	ASN
1	u	261	ASN
1	u	275	ASN
1	u	355	GLN
1	u	358	GLN
1	u	388	GLN
1	v	59	ASN
1	v	62	GLN
1	v	102	GLN
1	v	110	GLN
1	v	128	HIS
1	v	157	HIS
1	v	164	HIS
1	v	184	GLN
1	v	190	GLN
1	v	227	HIS
1	v	248	ASN
1	v	261	ASN

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Mol	Chain	Res	Type
1	v	275	ASN
1	v	355	GLN
1	v	358	GLN
1	v	388	GLN
1	w	59	ASN
1	w	62	GLN
1	w	102	GLN
1	w	110	GLN
1	w	128	HIS
1	w	157	HIS
1	w	164	HIS
1	w	184	GLN
1	w	190	GLN
1	w	227	HIS
1	w	248	ASN
1	w	261	ASN
1	w	275	ASN
1	w	355	GLN
1	w	358	GLN
1	w	388	GLN
1	x	59	ASN
1	x	62	GLN
1	x	102	GLN
1	x	110	GLN
1	x	128	HIS
1	x	157	HIS
1	x	164	HIS
1	x	227	HIS
1	x	248	ASN
1	x	261	ASN
1	x	275	ASN
1	x	355	GLN
1	x	358	GLN
1	x	388	GLN
1	y	62	GLN
1	y	102	GLN
1	y	110	GLN
1	y	128	HIS
1	y	157	HIS
1	y	164	HIS
1	y	184	GLN
1	y	227	HIS

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Mol	Chain	Res	Type
1	y	248	ASN
1	y	261	ASN
1	y	275	ASN
1	y	355	GLN
1	y	358	GLN
1	y	388	GLN
1	z	59	ASN
1	z	62	GLN
1	z	102	GLN
1	z	110	GLN
1	z	128	HIS
1	z	157	HIS
1	z	164	HIS
1	z	184	GLN
1	z	227	HIS
1	z	248	ASN
1	z	261	ASN
1	z	275	ASN
1	z	355	GLN
1	z	358	GLN
1	z	388	GLN
1	7	59	ASN
1	7	62	GLN
1	7	102	GLN
1	7	110	GLN
1	7	128	HIS
1	7	157	HIS
1	7	164	HIS
1	7	227	HIS
1	7	248	ASN
1	7	261	ASN
1	7	275	ASN
1	7	355	GLN
1	7	358	GLN
1	7	388	GLN
1	8	59	ASN
1	8	62	GLN
1	8	102	GLN
1	8	110	GLN
1	8	128	HIS
1	8	157	HIS
1	8	164	HIS

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Mol	Chain	Res	Type
1	8	227	HIS
1	8	248	ASN
1	8	261	ASN
1	8	275	ASN
1	8	355	GLN
1	8	358	GLN
1	8	388	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

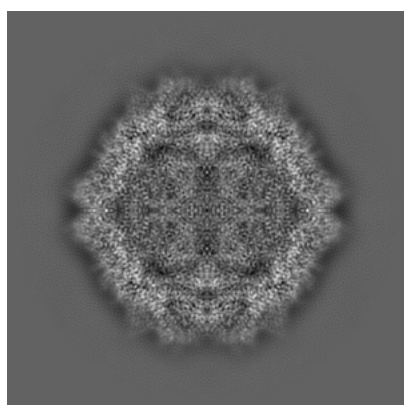
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8604. These allow visual inspection of the internal detail of the map and identification of artifacts.

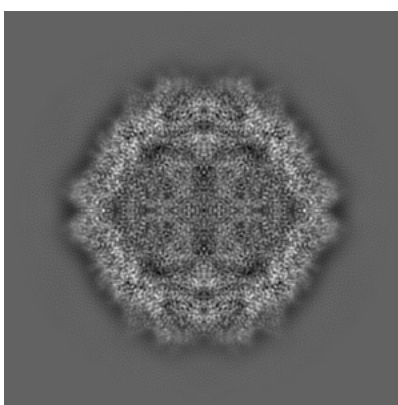
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

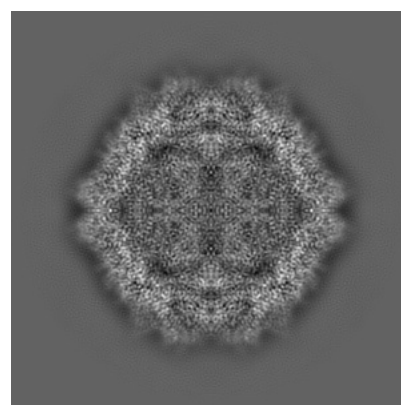
6.1.1 Primary map



X



Y

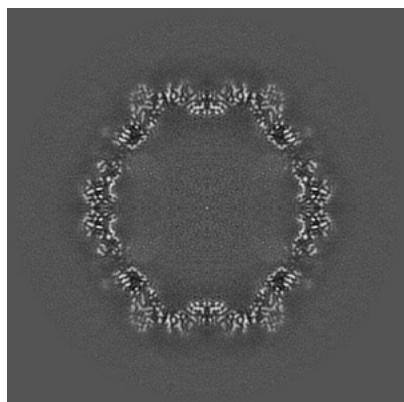


Z

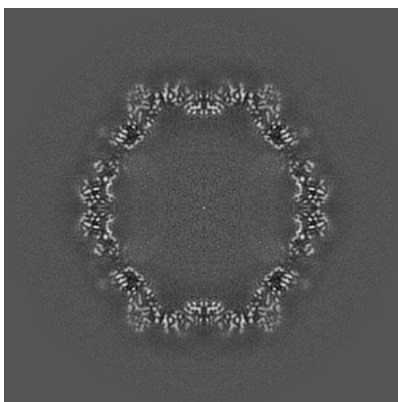
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

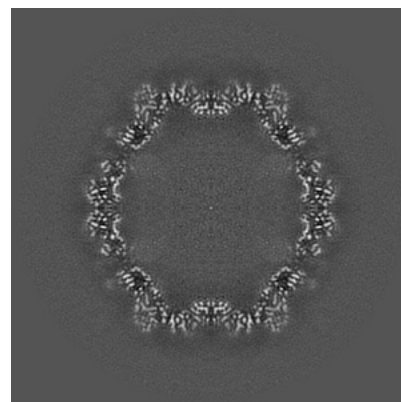
6.2.1 Primary map



X Index: 199



Y Index: 199

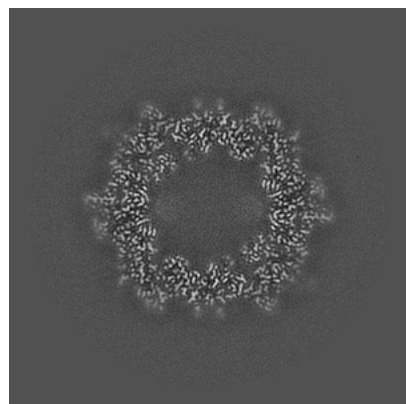


Z Index: 199

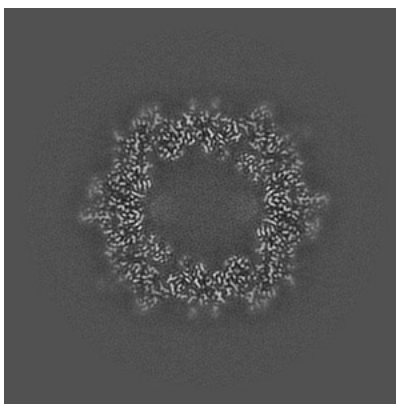
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

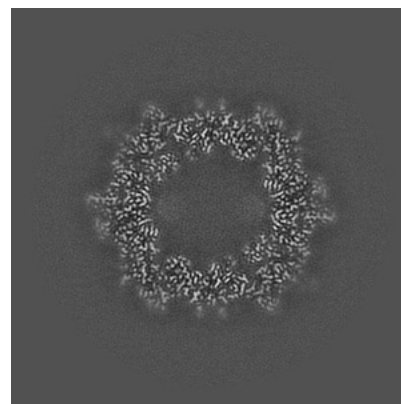
6.3.1 Primary map



X Index: 269



Y Index: 129

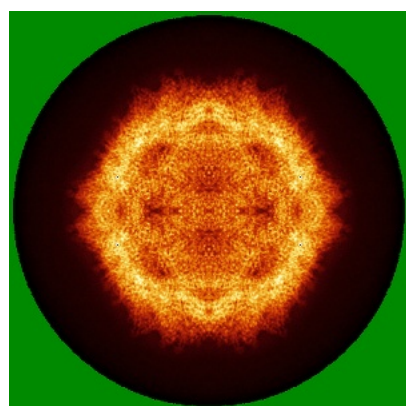


Z Index: 269

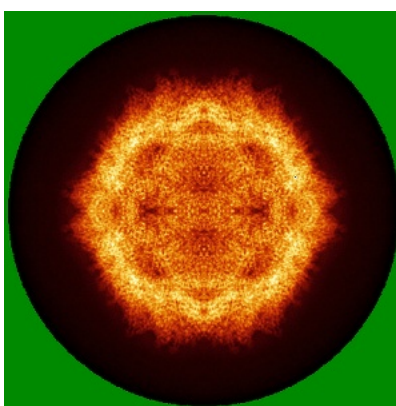
The images above show the largest variance slices of the map in three orthogonal directions.

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

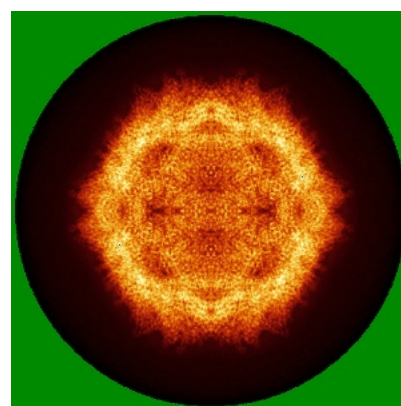
6.4.1 Primary map



X



Y

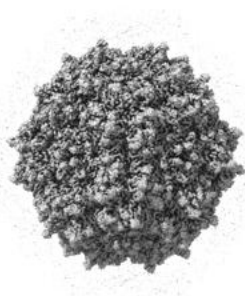


Z

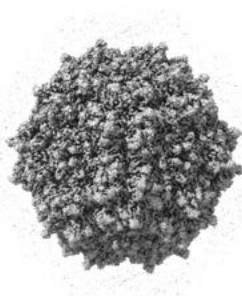
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

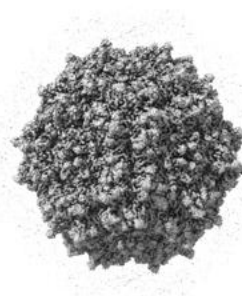
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

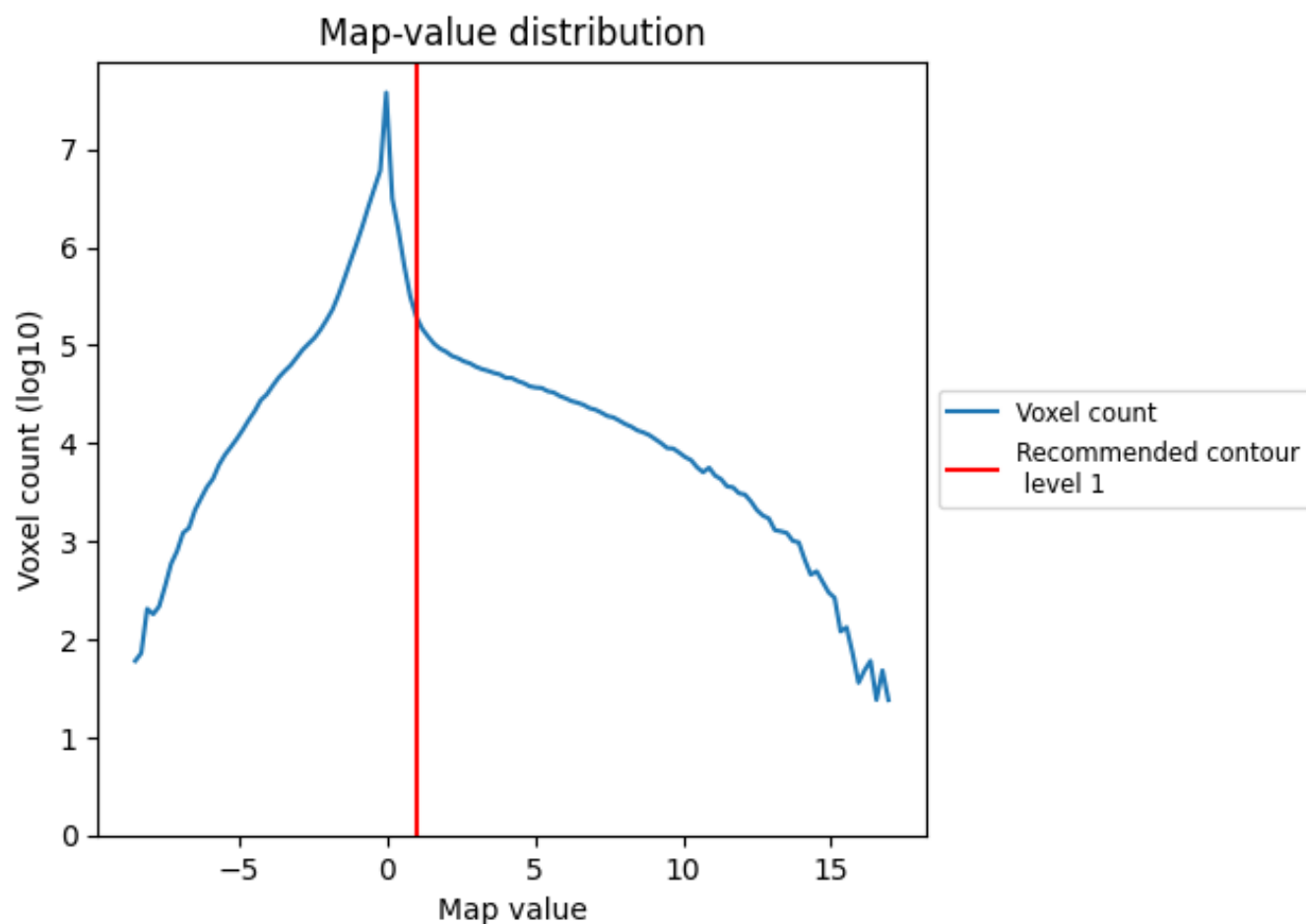
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

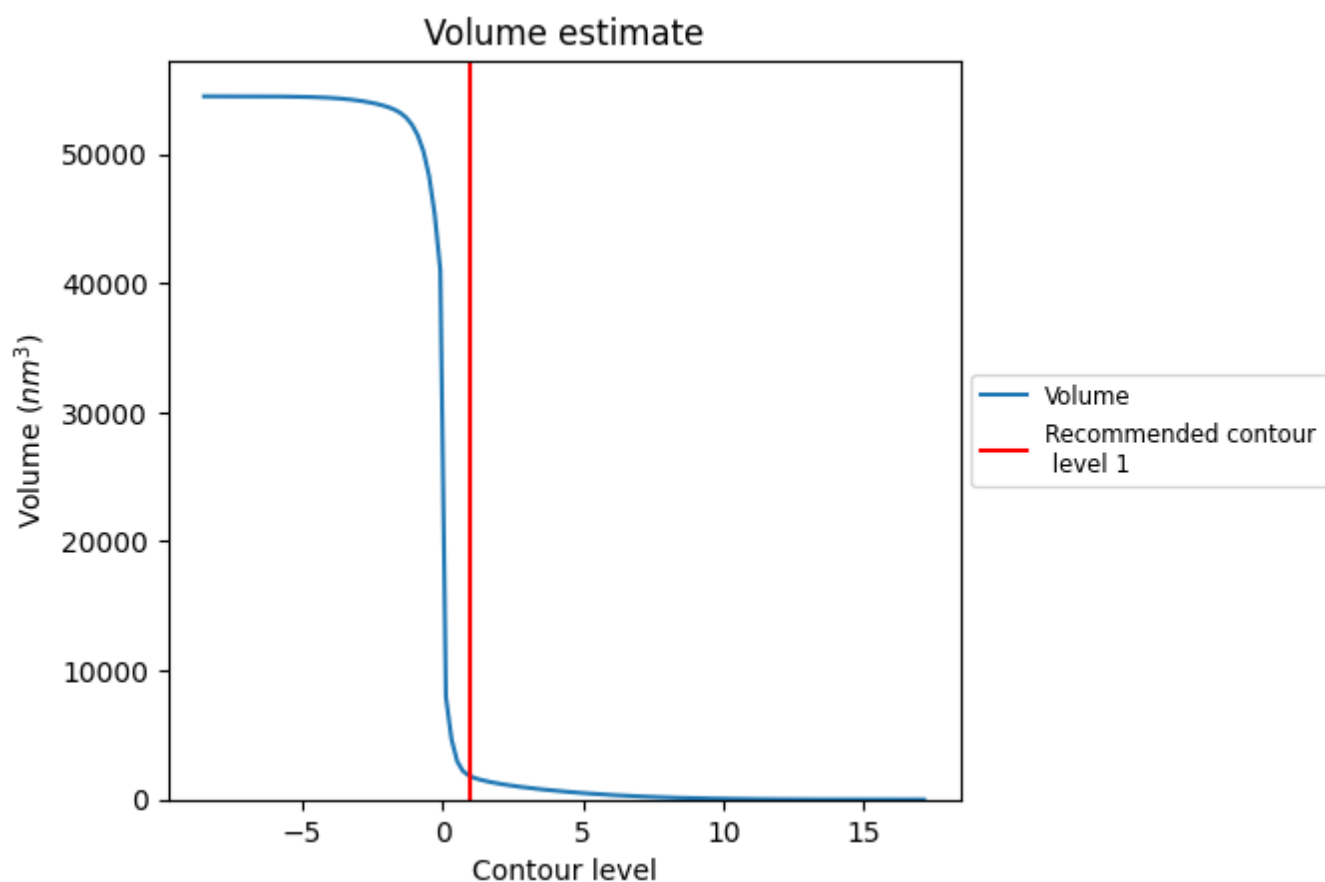
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

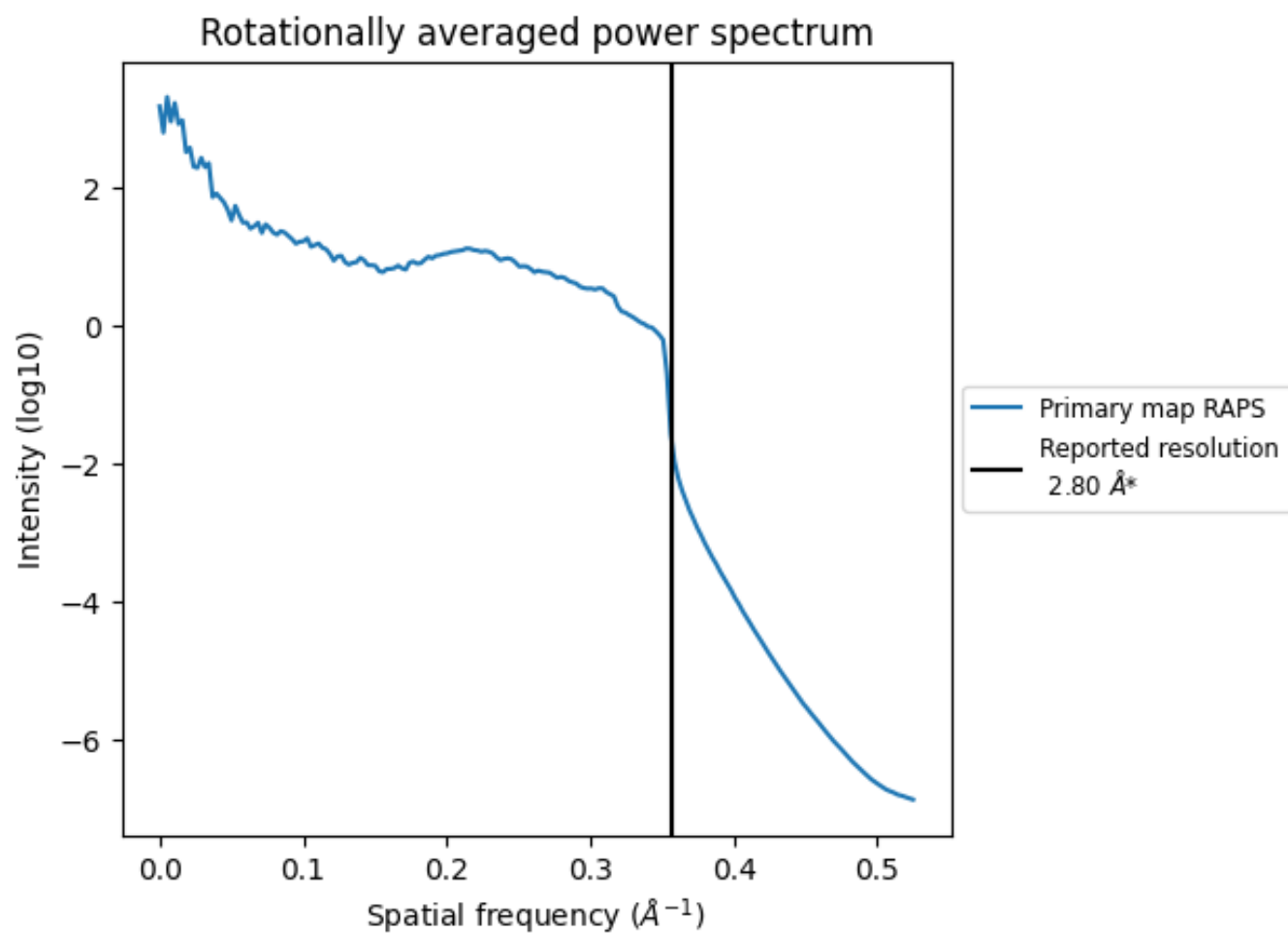
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1803 nm³; this corresponds to an approximate mass of 1629 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 0.357 Å⁻¹

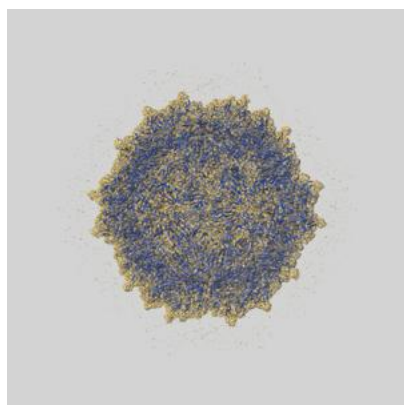
8 Fourier-Shell correlation ⓘ

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

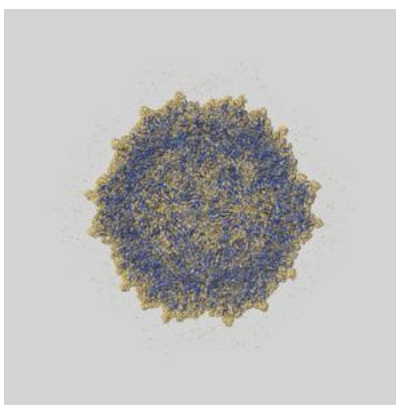
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8604 and PDB model 5US7. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

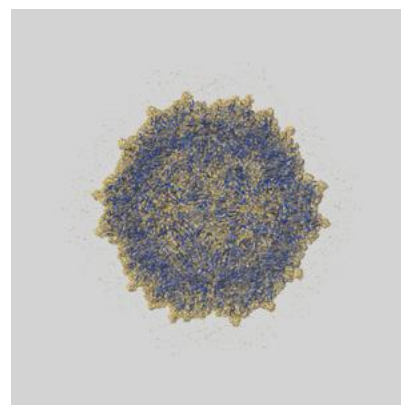
9.1 Map-model overlay [i](#)



X



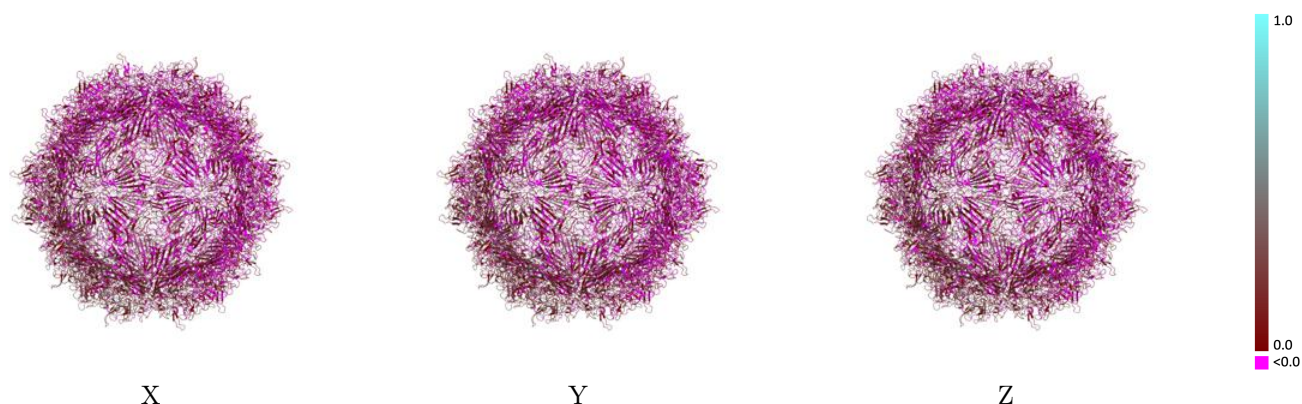
Y



Z

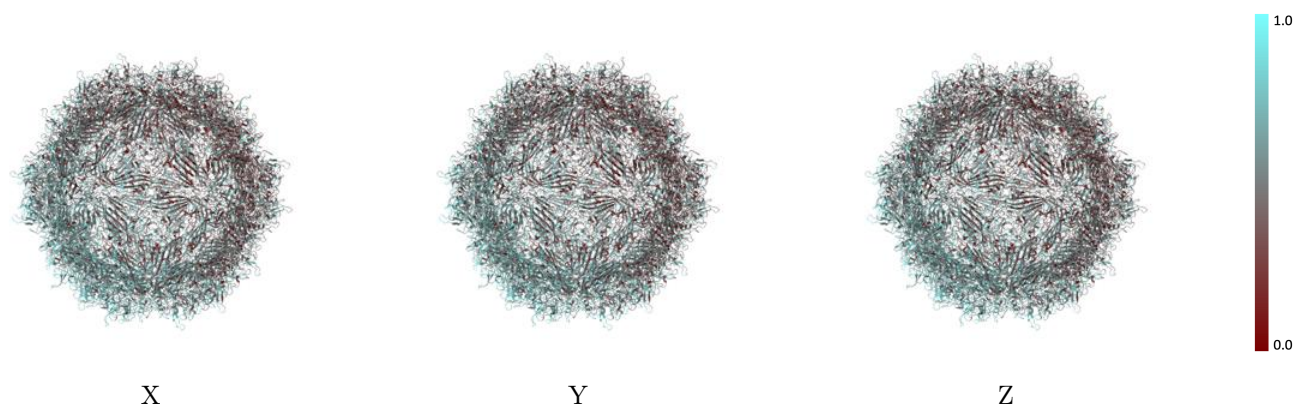
The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



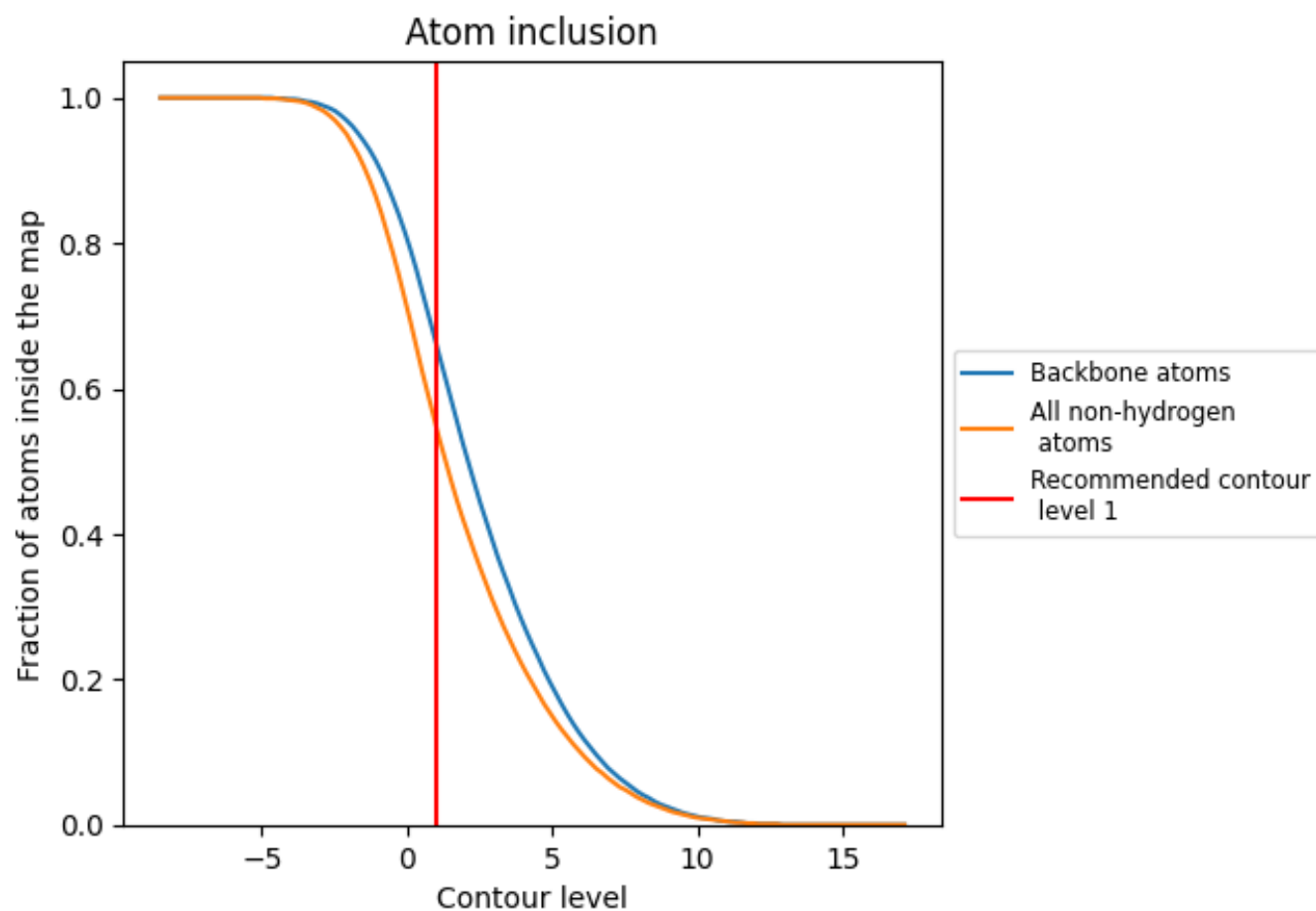
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1).

9.4 Atom inclusion ⓘ



At the recommended contour level, 66% of all backbone atoms, 55% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5480	 0.1040
1	 0.4750	 0.0260
2	 0.4290	 0.0050
3	 0.4420	 0.0060
4	 0.5360	 0.0890
5	 0.7140	 0.2750
6	 0.7660	 0.3370
7	 0.4800	 0.0310
8	 0.4920	 0.0460
A	 0.4790	 0.0350
B	 0.4400	 0.0160
C	 0.4290	 0.0060
D	 0.4420	 0.0080
E	 0.4660	 0.0290
F	 0.4920	 0.0520
G	 0.5130	 0.0590
H	 0.5360	 0.0850
I	 0.4680	 0.0270
J	 0.4570	 0.0110
K	 0.4660	 0.0240
L	 0.4420	 0.0040
M	 0.4290	 0.0070
N	 0.4400	 0.0180
O	 0.4690	 0.0310
P	 0.4570	 0.0140
Q	 0.4750	 0.0330
R	 0.5480	 0.0930
S	 0.5600	 0.1090
T	 0.6280	 0.1810
U	 0.6390	 0.1860
V	 0.6410	 0.2030
W	 0.5800	 0.1220
X	 0.6880	 0.2480
Y	 0.6280	 0.1790
Z	 0.5600	 0.1040



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Chain	Atom inclusion	Q-score
a	 0.7660	 0.3370
b	 0.7670	 0.3370
c	 0.6890	 0.2470
d	 0.6410	 0.2030
e	 0.7150	 0.2740
f	 0.5790	 0.1250
g	 0.4780	 0.0370
h	 0.5010	 0.0510
i	 0.4400	 0.0150
j	 0.4570	 0.0130
k	 0.4750	 0.0320
l	 0.4920	 0.0530
m	 0.4660	 0.0280
n	 0.5360	 0.0840
o	 0.5800	 0.1190
p	 0.6280	 0.1770
q	 0.6390	 0.1870
r	 0.5480	 0.0930
s	 0.5600	 0.1080
t	 0.7140	 0.2680
u	 0.6880	 0.2410
v	 0.6410	 0.1960
w	 0.5480	 0.0860
x	 0.6390	 0.1820
y	 0.5020	 0.0440
z	 0.4690	 0.0260