Full wwPDB EM Validation Report ⓘ

May 13, 2025 – 10:43 PM EDT

PDB ID	:	6B9Q / pdb_00006b9q
EMDB ID	:	EMD-7071
Title	:	Single particle cryo-EM structure determination of the LuIII capsid protein
Authors	:	Pittman, N.C.; Agbandje-McKenna, M.
Deposited on	:	2017-10-11
Resolution	:	3.17 Å(reported)

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

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

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

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

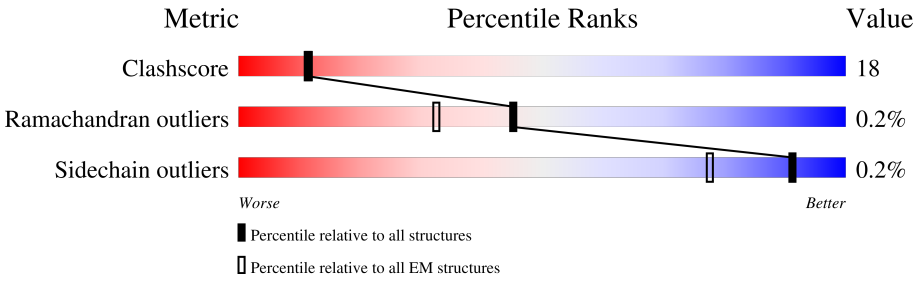
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.17 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



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

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

Mol	Chain	Length	Quality of chain
1	1	587	59% 35% 6%
1	2	587	58% 36% 6%
1	3	587	58% 36% 6%
1	4	587	59% 35% 6%
1	5	587	58% 36% 6%
1	6	587	58% 35% 6%
1	7	587	58% 35% 6%
1	8	587	58% 35% 6%

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Mol	Chain	Length	Quality of chain
1	A	587	58% 36% 6%
1	B	587	59% 35% 6%
1	C	587	58% 35% 6%
1	D	587	58% 35% 6%
1	E	587	59% 35% 6%
1	F	587	58% 35% 6%
1	G	587	58% 35% 6%
1	H	587	58% 35% 6%
1	I	587	59% 35% 6%
1	J	587	59% 35% 6%
1	K	587	58% 35% 6%
1	L	587	59% 35% 6%
1	M	587	58% 36% 6%
1	N	587	58% 35% 6%
1	O	587	58% 35% 6%
1	P	587	59% 35% 6%
1	Q	587	58% 35% 6%
1	R	587	58% 36% 6%
1	S	587	59% 35% 6%
1	T	587	59% 34% 6%
1	U	587	58% 35% 6%
1	V	587	58% 36% 6%
1	W	587	58% 35% 6%
1	X	587	59% 35% 6%
1	Y	587	58% 36% 6%

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Mol	Chain	Length	Quality of chain
1	Z	587	59% 35% 6%
1	a	587	59% 35% 6%
1	b	587	59% 35% 6%
1	c	587	58% 35% 6%
1	d	587	58% 36% 6%
1	e	587	58% 35% 6%
1	f	587	59% 35% 6%
1	g	587	58% 36% 6%
1	h	587	59% 35% 6%
1	i	587	58% 35% 6%
1	j	587	59% 35% 6%
1	k	587	59% 35% 6%
1	l	587	59% 35% 6%
1	m	587	59% 35% 6%
1	n	587	59% 35% 6%
1	o	587	58% 36% 6%
1	p	587	58% 35% 6%
1	q	587	58% 36% 6%
1	r	587	59% 35% 6%
1	s	587	58% 36% 6%
1	t	587	58% 35% 6%
1	u	587	58% 35% 6%
1	v	587	59% 35% 6%
1	w	587	59% 35% 6%
1	x	587	59% 35% 6%

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Mol	Chain	Length	Quality of chain
1	y	587	59% 35% 6%
1	z	587	58% 35% 6%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 263940 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 Capsid protein VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	B	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	C	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	D	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	E	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	F	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	G	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	H	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	I	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	J	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	K	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	L	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	M	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	N	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	O	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	P	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	Q	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	S	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	T	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	U	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	V	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	W	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	X	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	Y	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	Z	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	1	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	2	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	3	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	4	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	5	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	6	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	a	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	b	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	c	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	d	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	e	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	f	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	h	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	i	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	j	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	k	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	l	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	m	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	n	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	o	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	p	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	q	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	r	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	s	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	t	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	u	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	v	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	w	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	x	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	y	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	z	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		
1	7	551	Total	C	N	O	S	1	0
			4399	2766	773	845	15		

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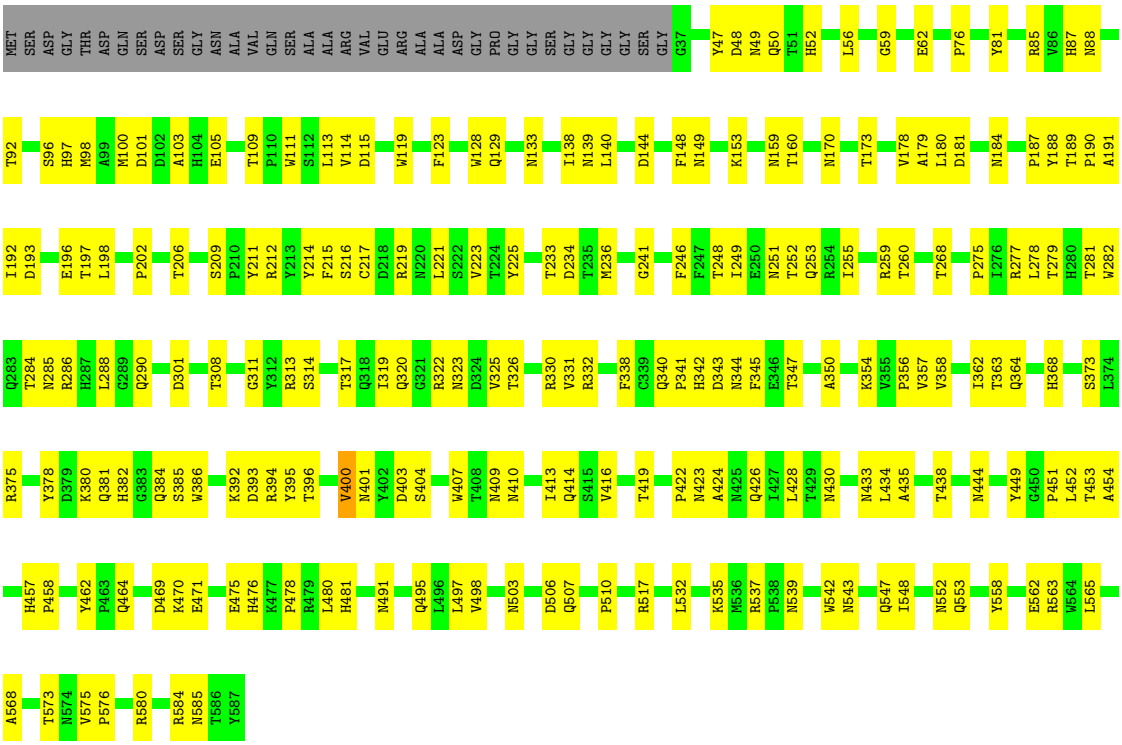
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	8	551	4399	2766	773	845	15	1	0

3 Residue-property plots (i)

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

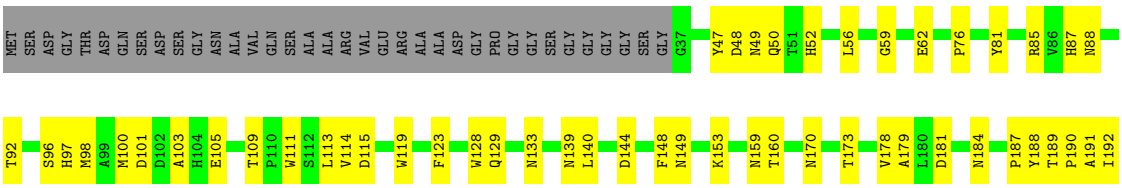
- Molecule 1: Capsid protein VP2

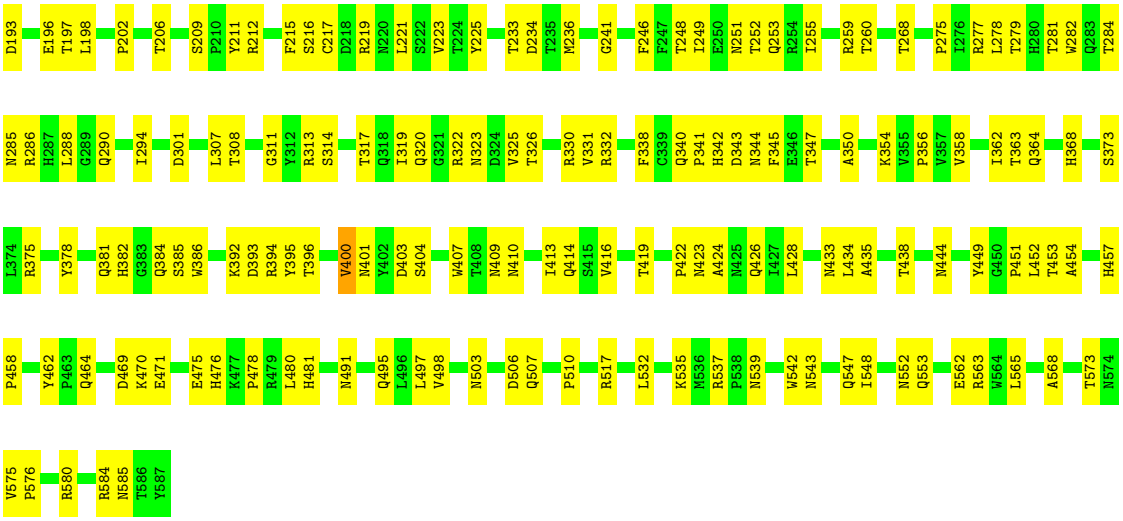
Chain A:



- Molecule 1: Capsid protein VP2

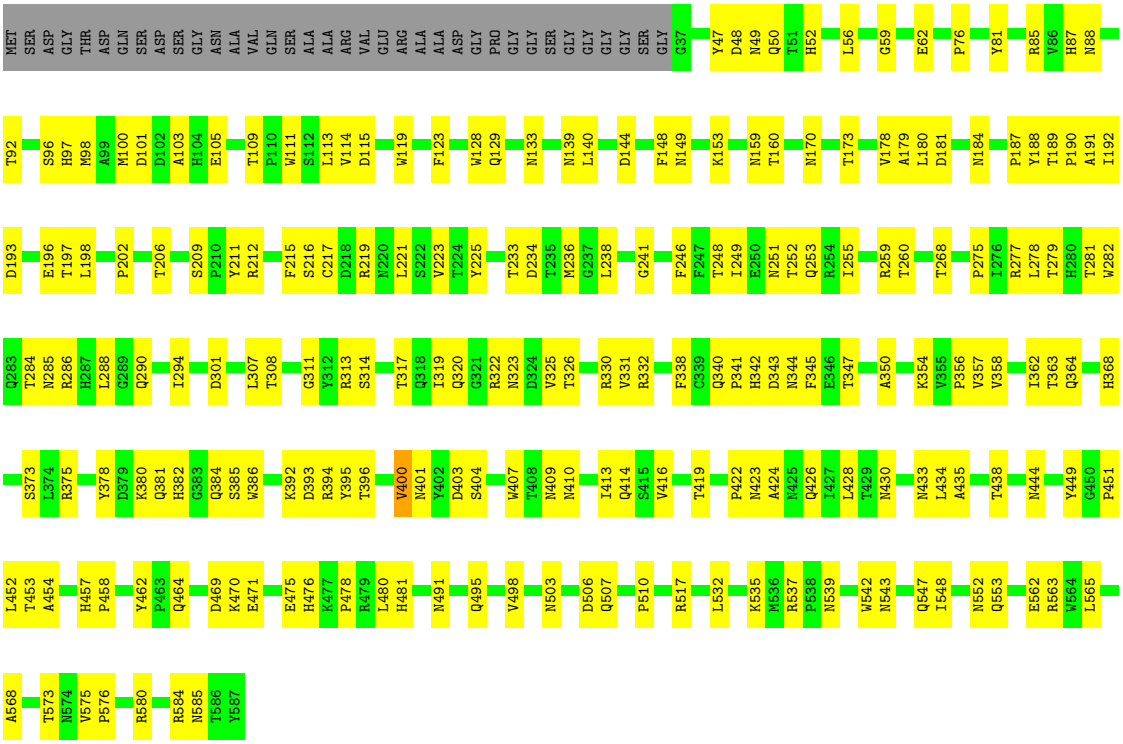
Chain B:





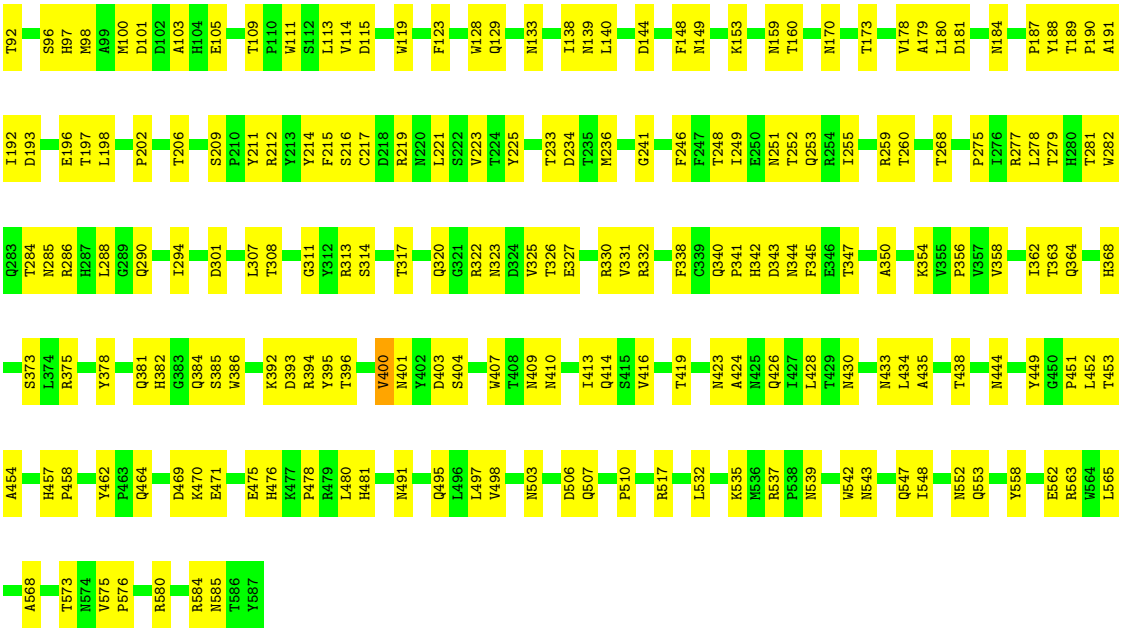
• Molecule 1: Capsid protein VP2

Chain C:



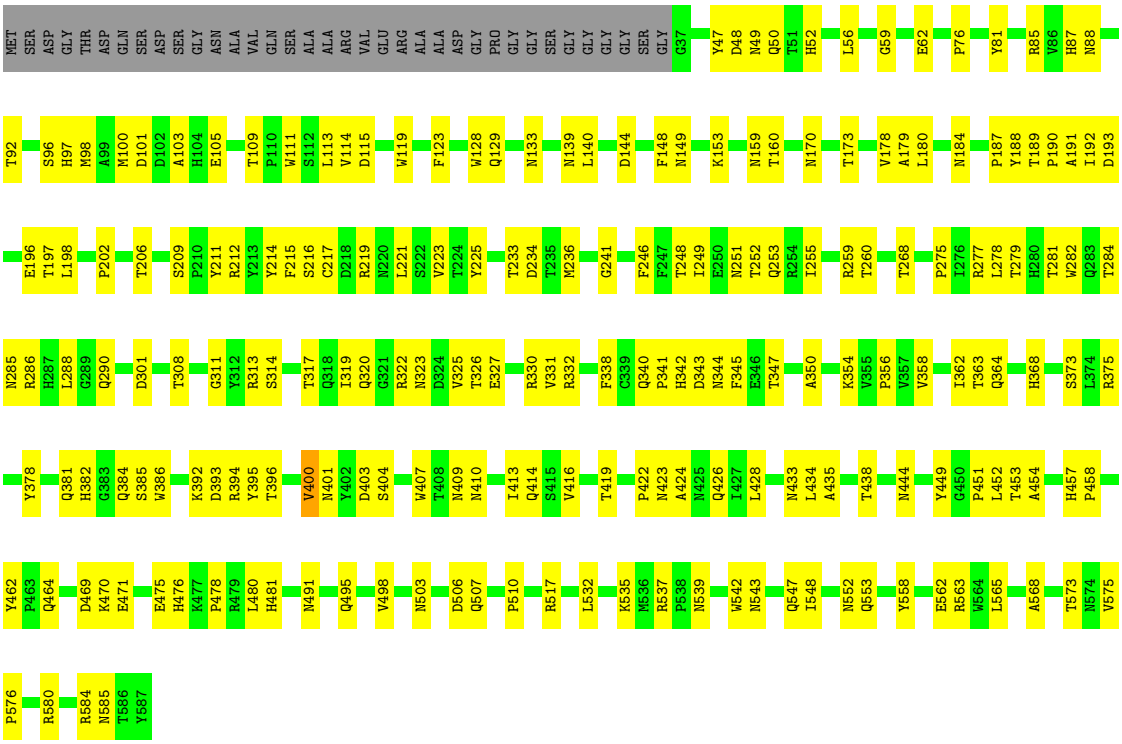
• Molecule 1: Capsid protein VP2

Chain D:



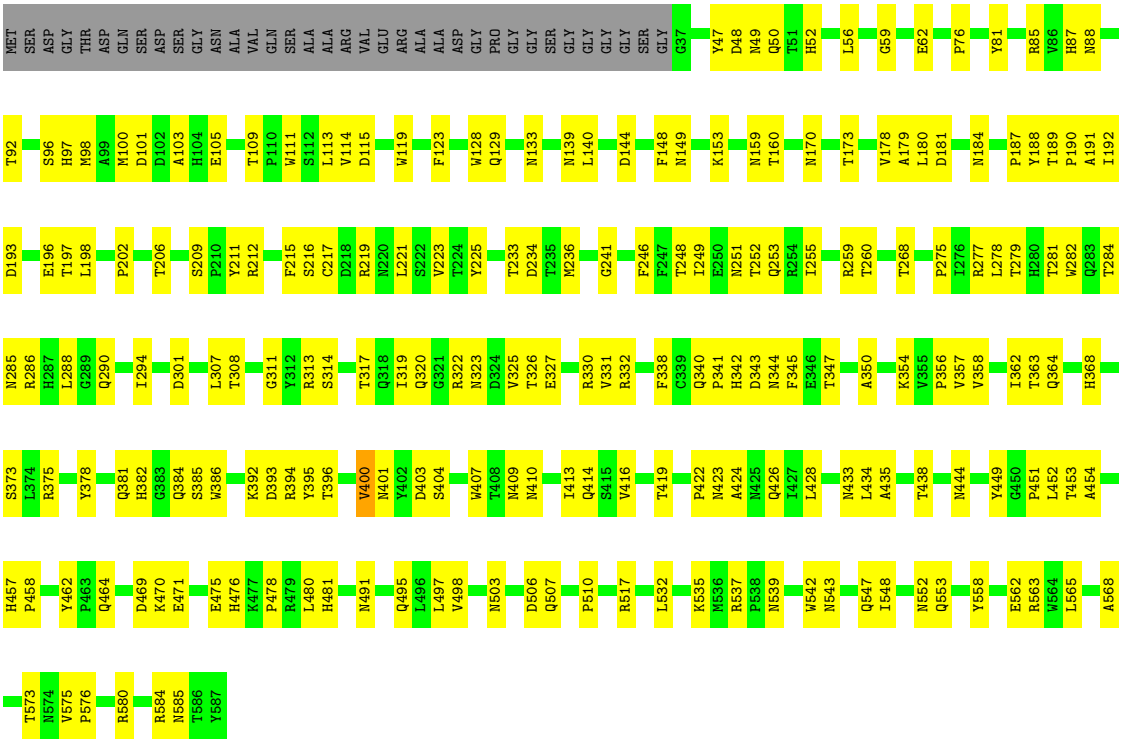
• Molecule 1: Capsid protein VP2

Chain E:



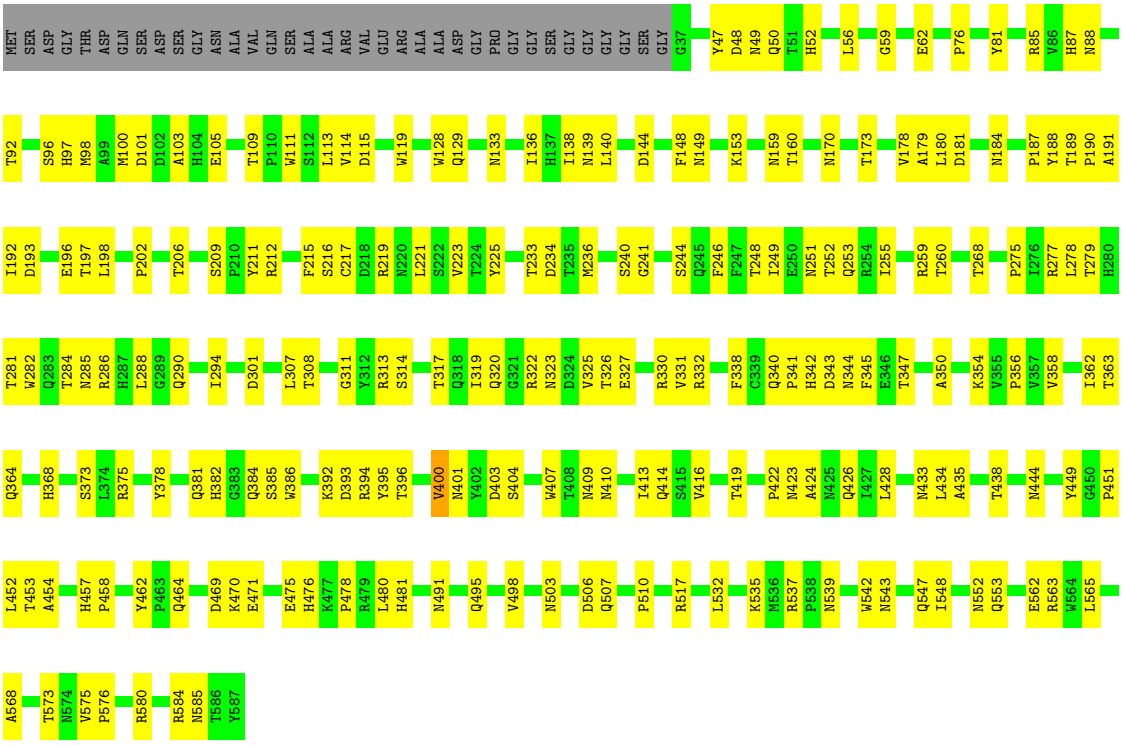
• Molecule 1: Capsid protein VP2

Chain F:



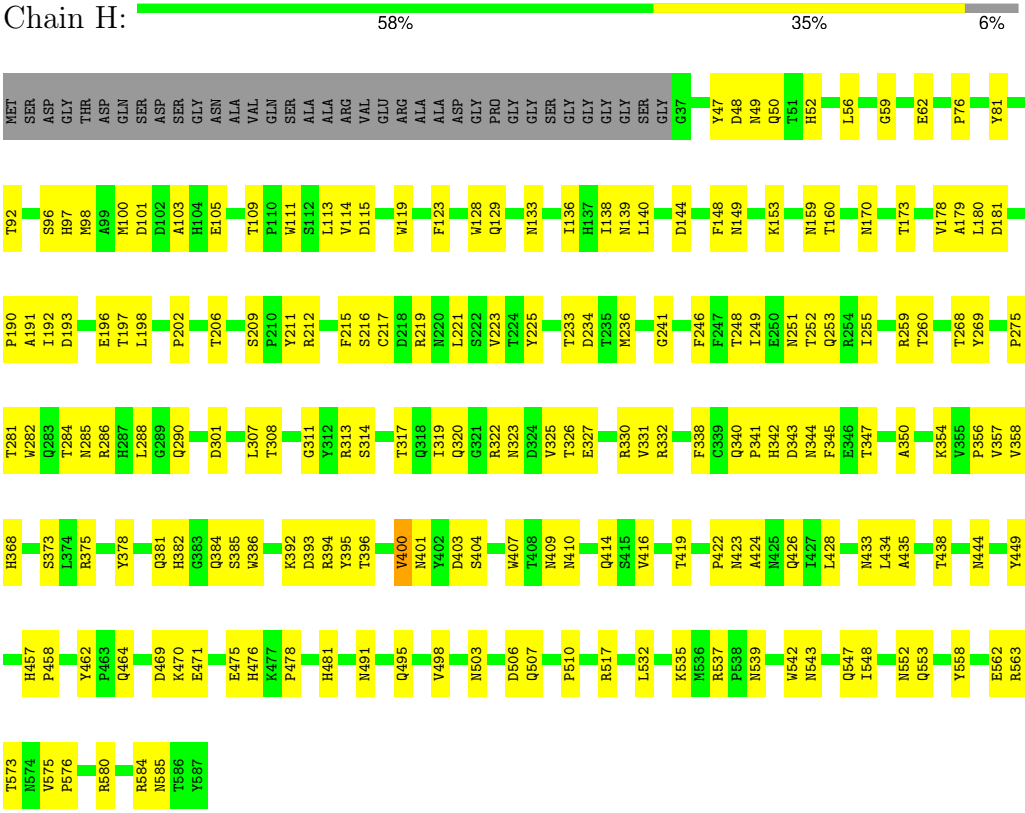
• Molecule 1: Capsid protein VP2

Chain G:



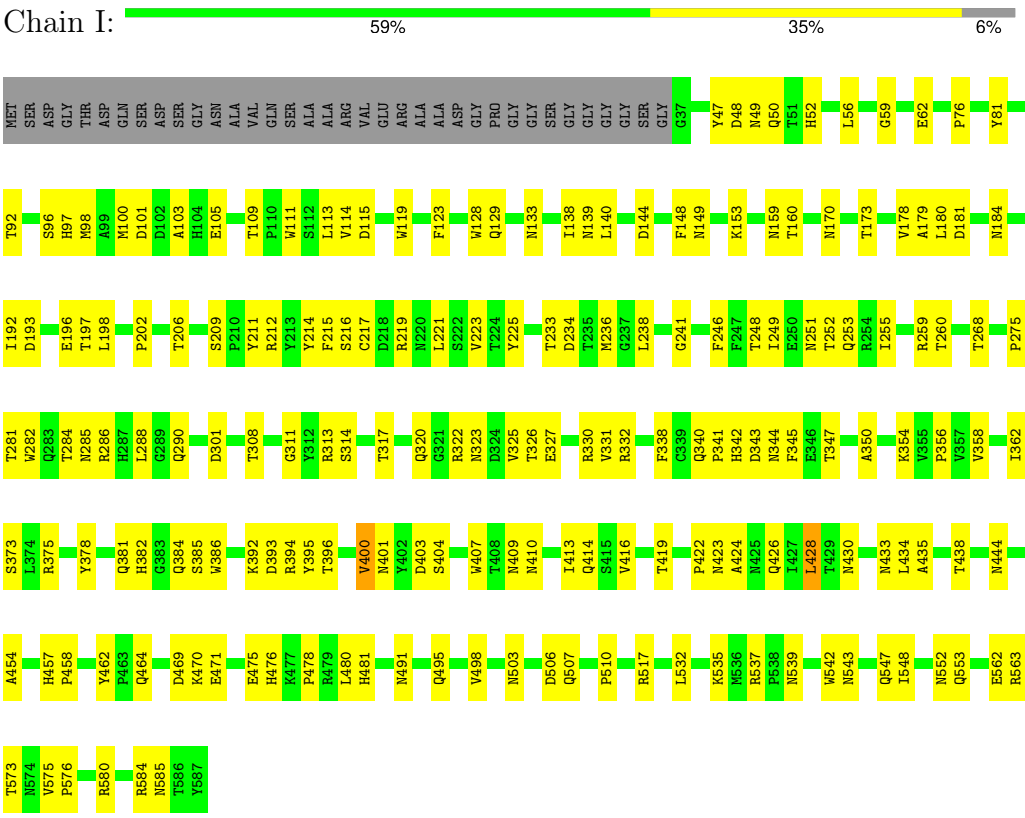
• Molecule 1: Capsid protein VP2

Chain H:



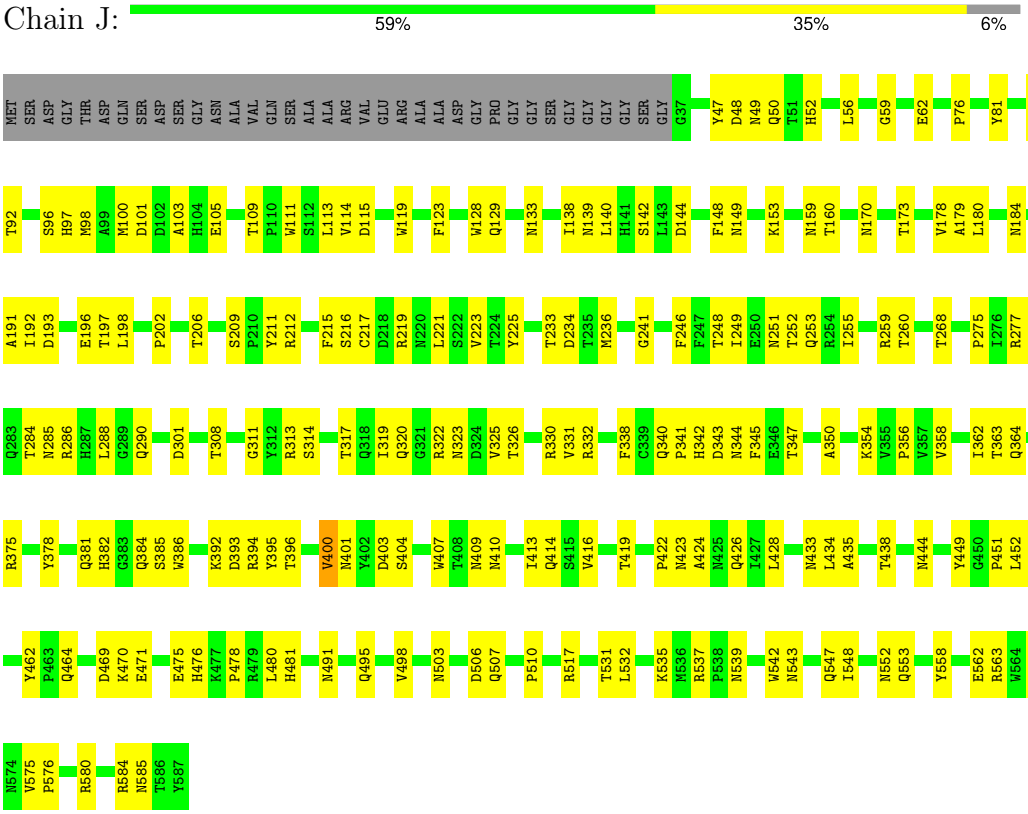
• Molecule 1: Capsid protein VP2

Chain I:



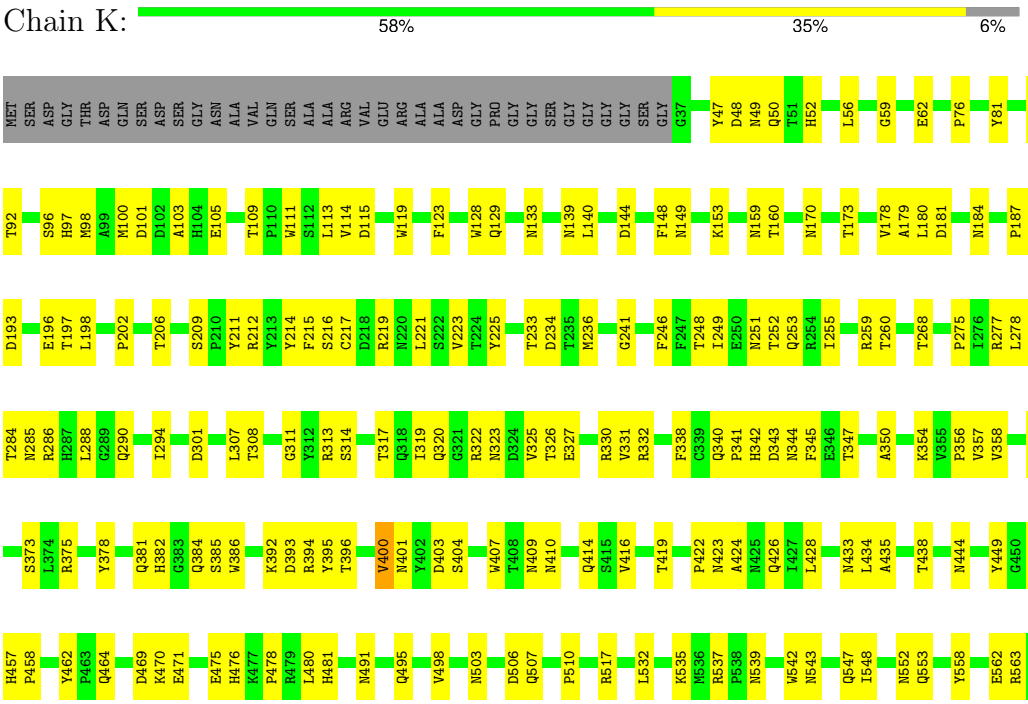
• Molecule 1: Capsid protein VP2

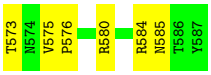
Chain J:



• Molecule 1: Capsid protein VP2

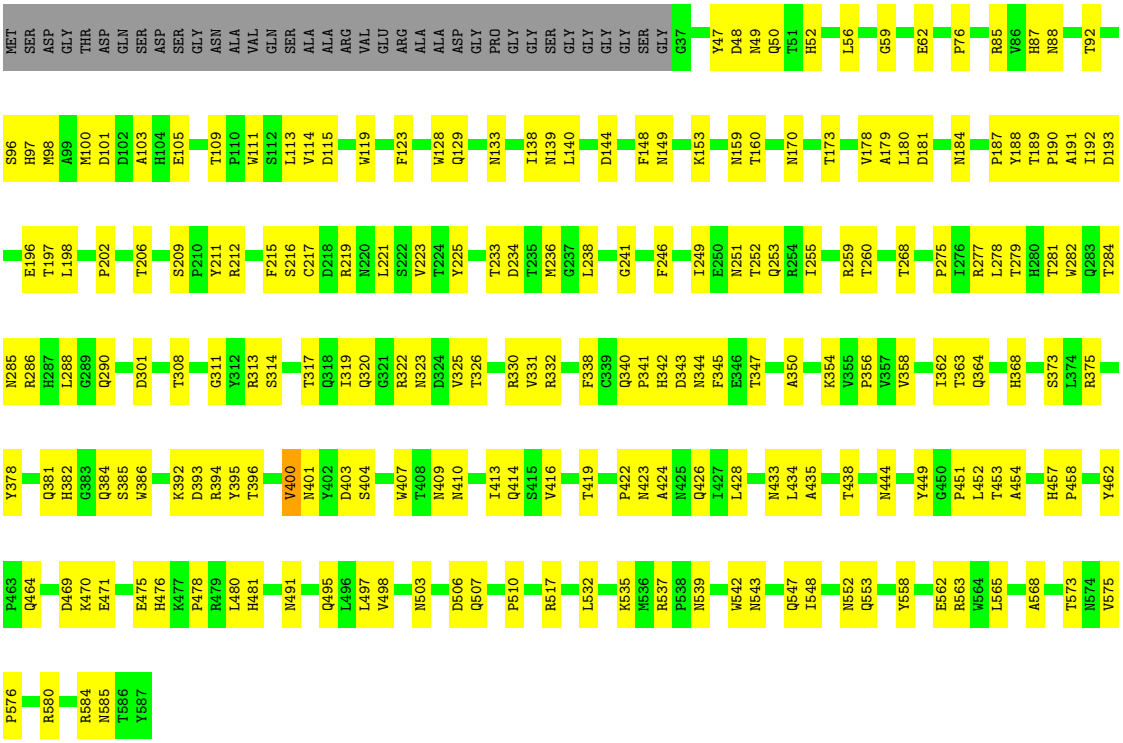
Chain K:





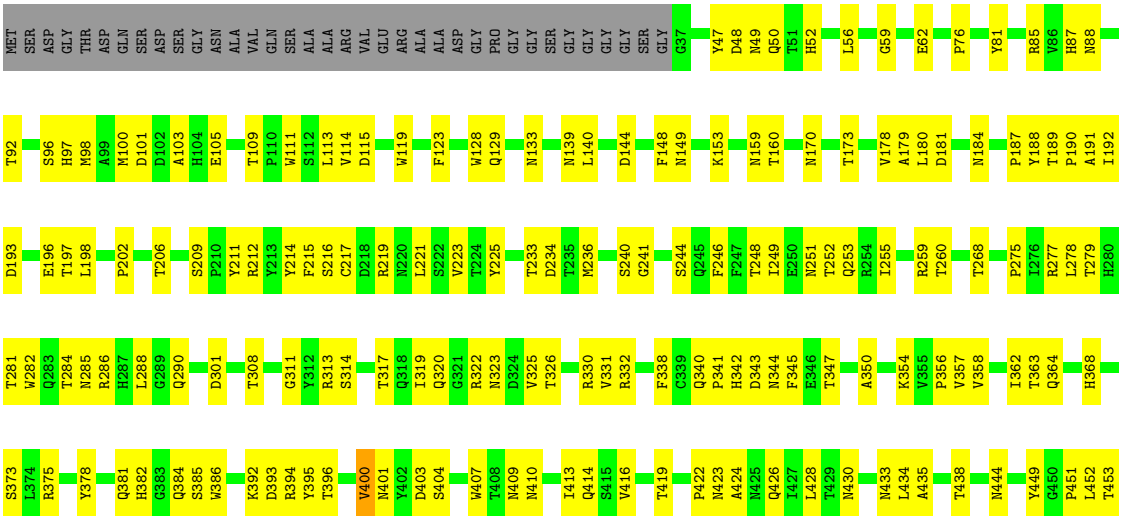
• Molecule 1: Capsid protein VP2

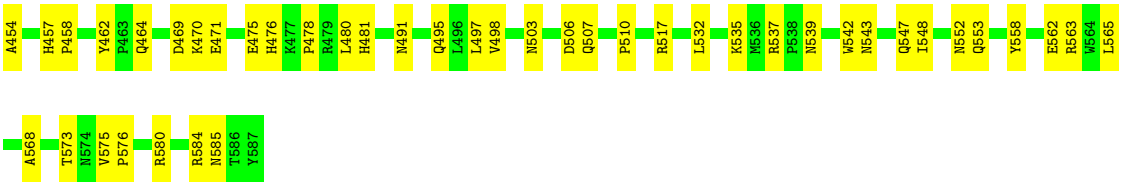
Chain L:



• Molecule 1: Capsid protein VP2

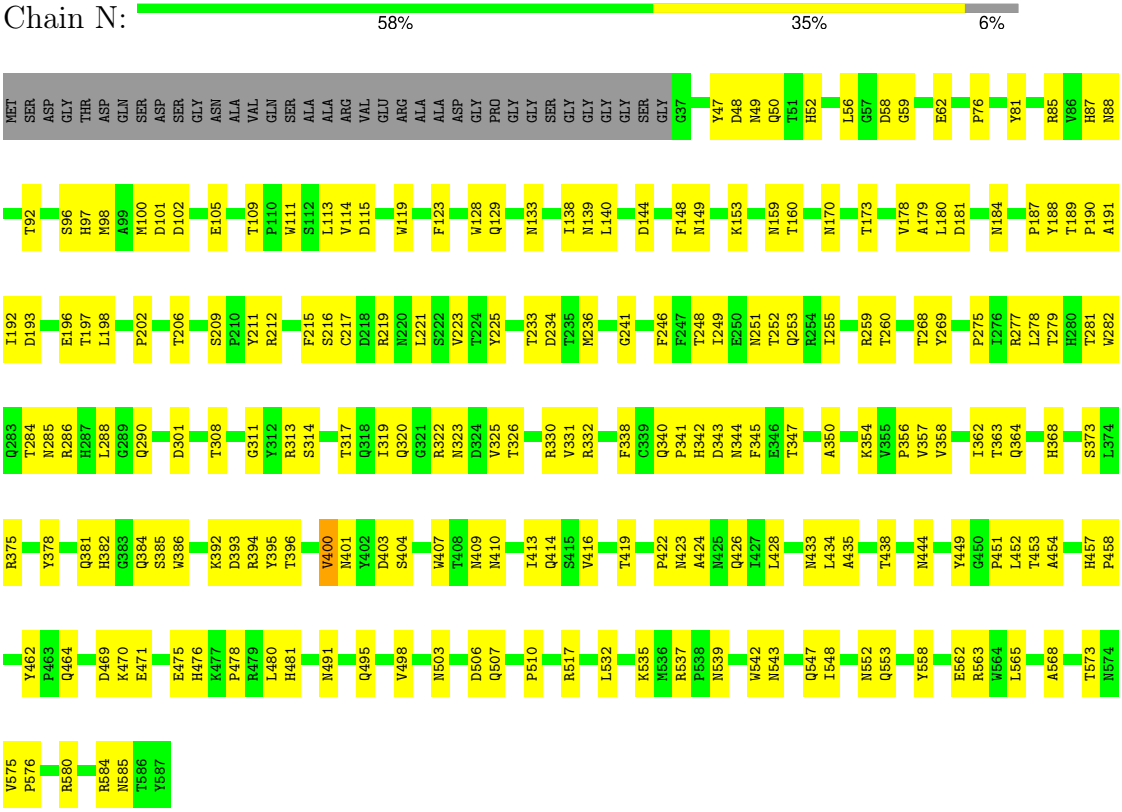
Chain M:





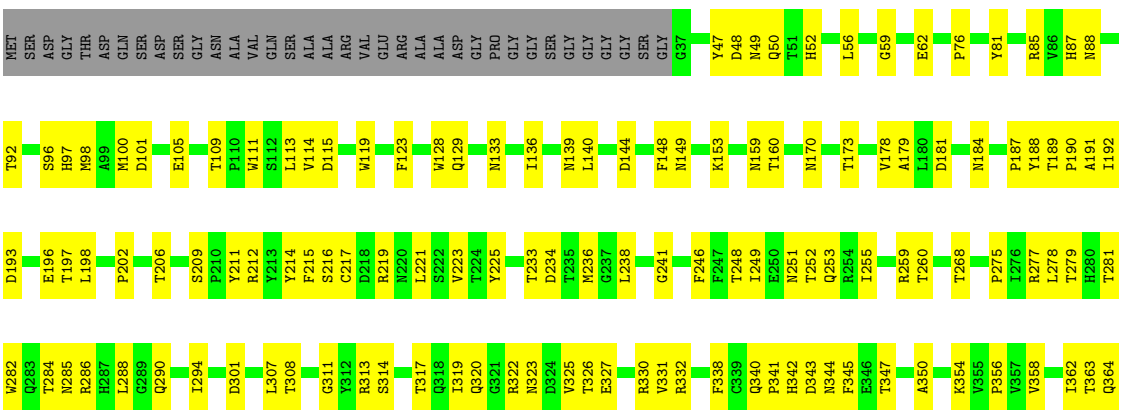
• Molecule 1: Capsid protein VP2

Chain N:



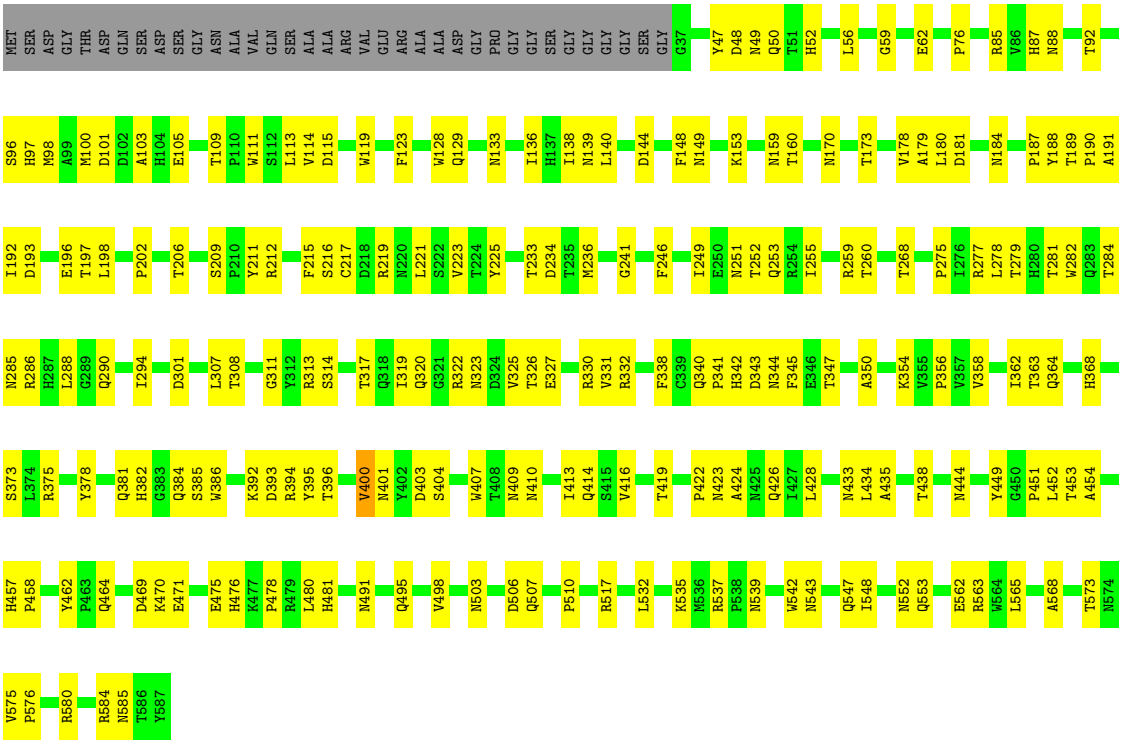
• Molecule 1: Capsid protein VP2

Chain O:



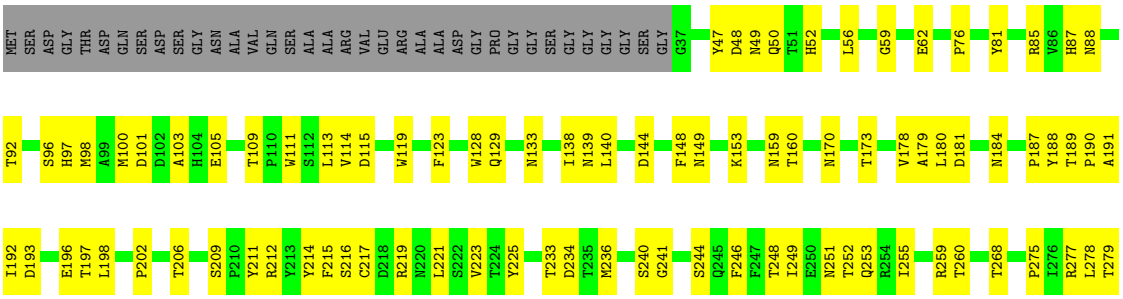
• Molecule 1: Capsid protein VP2

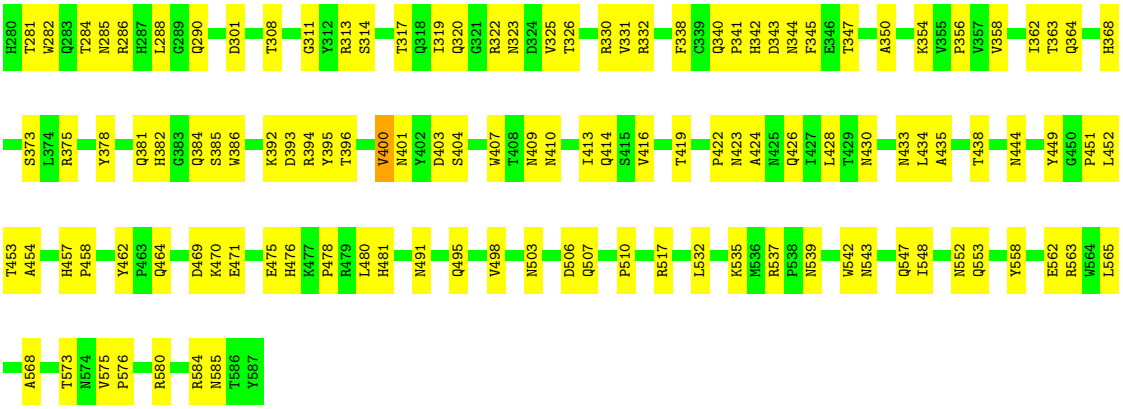
Chain P:



• Molecule 1: Capsid protein VP2

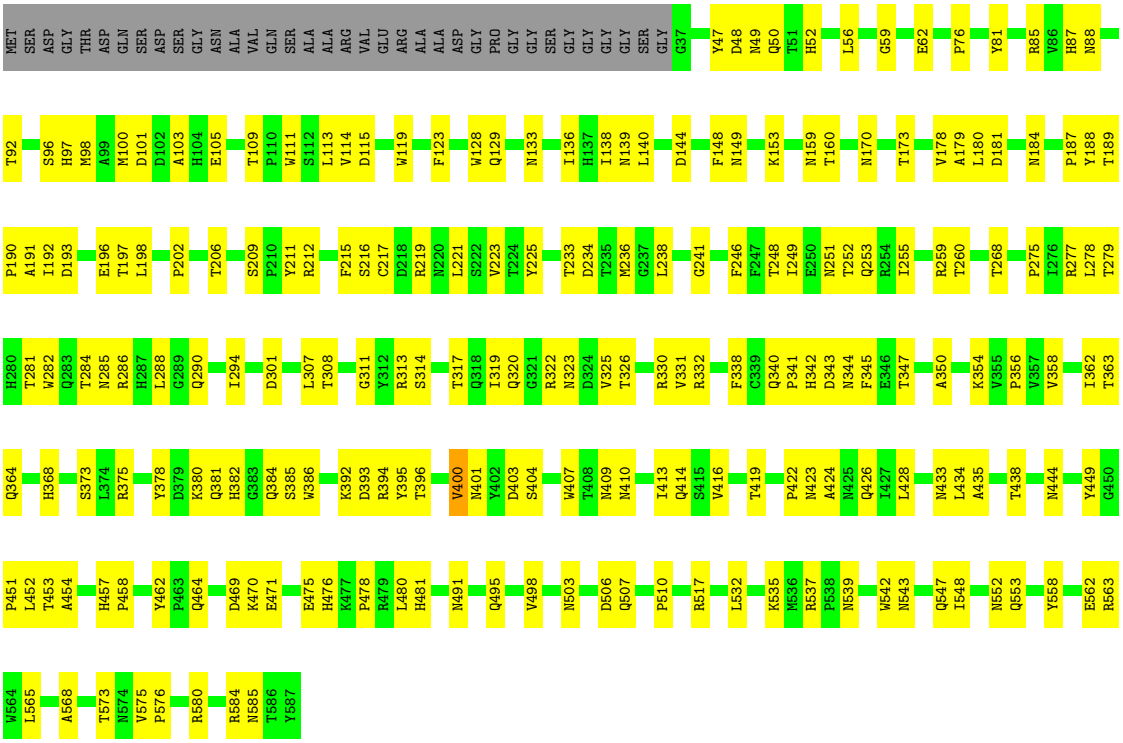
Chain Q:





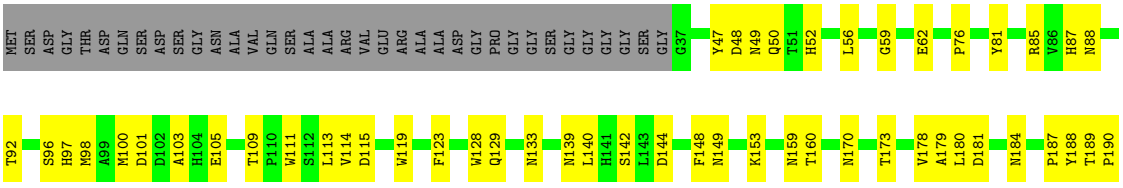
• Molecule 1: Capsid protein VP2

Chain R:



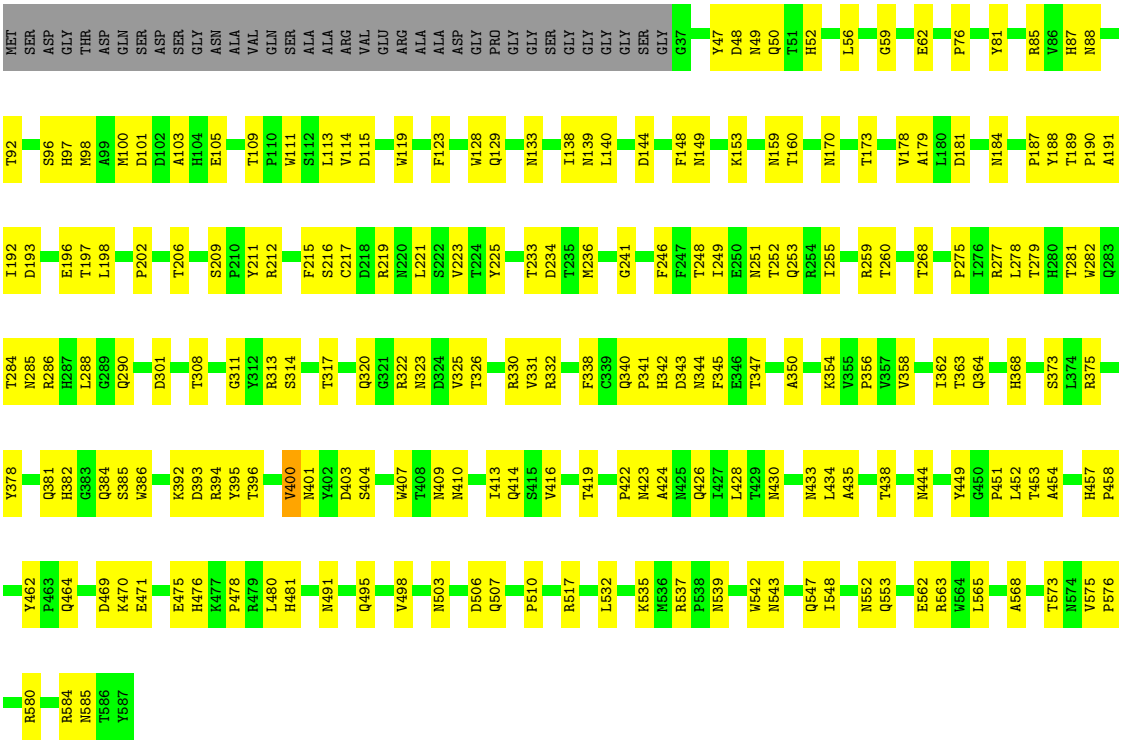
• Molecule 1: Capsid protein VP2

Chain S:



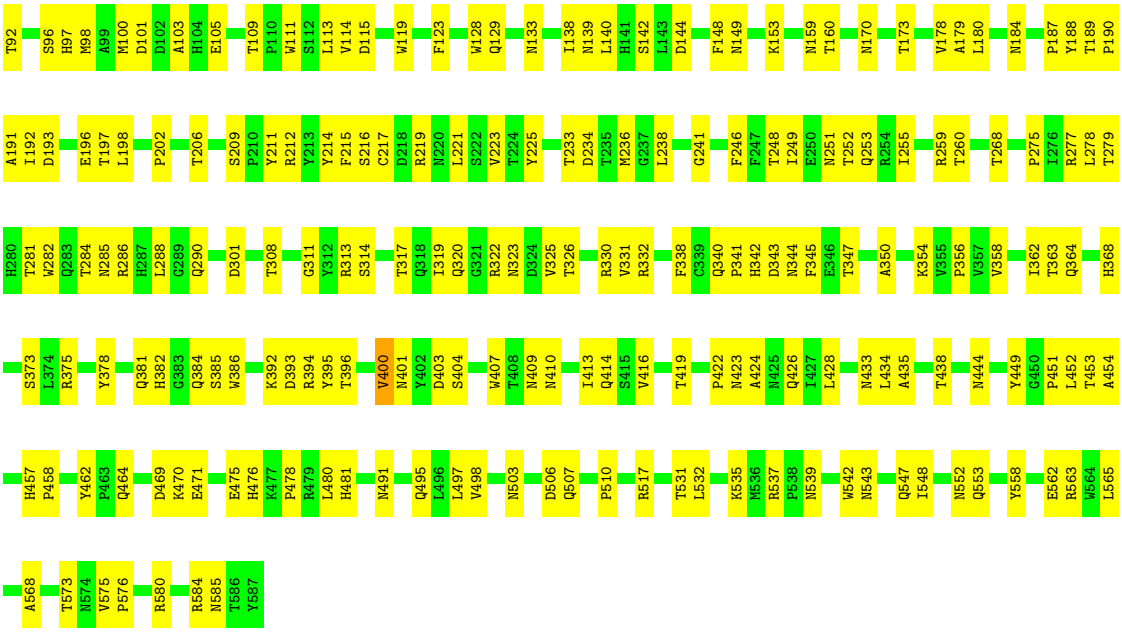
• Molecule 1: Capsid protein VP2

Chain T:



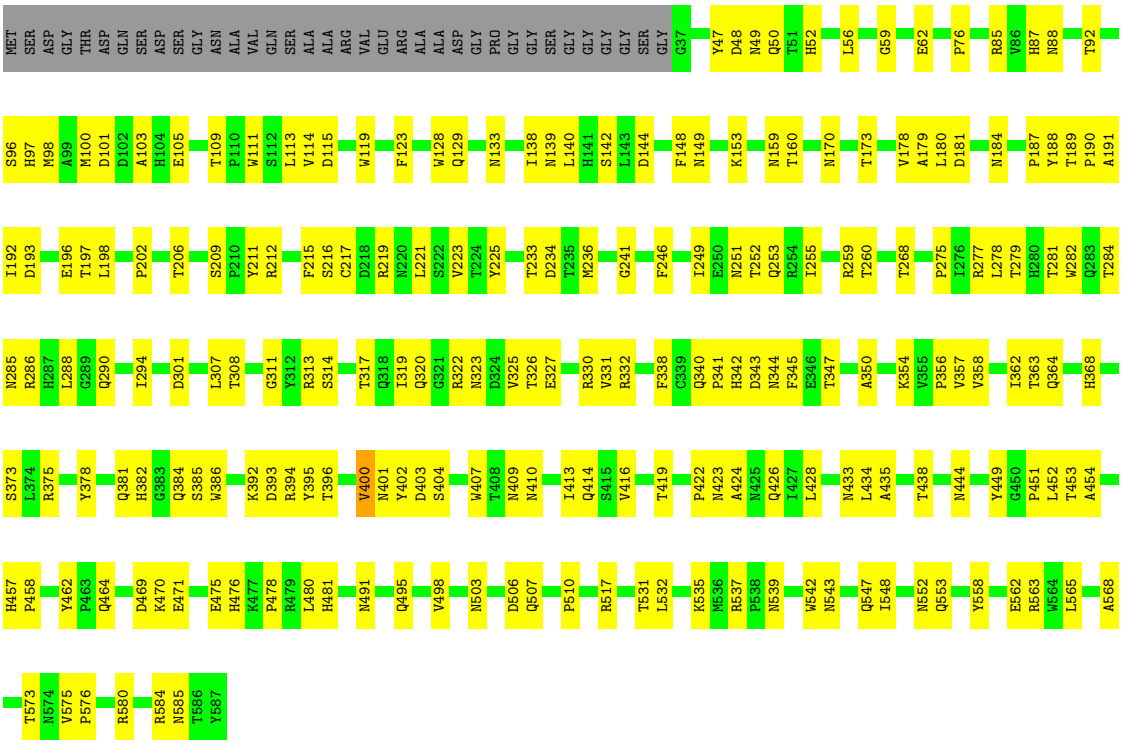
• Molecule 1: Capsid protein VP2

Chain U:



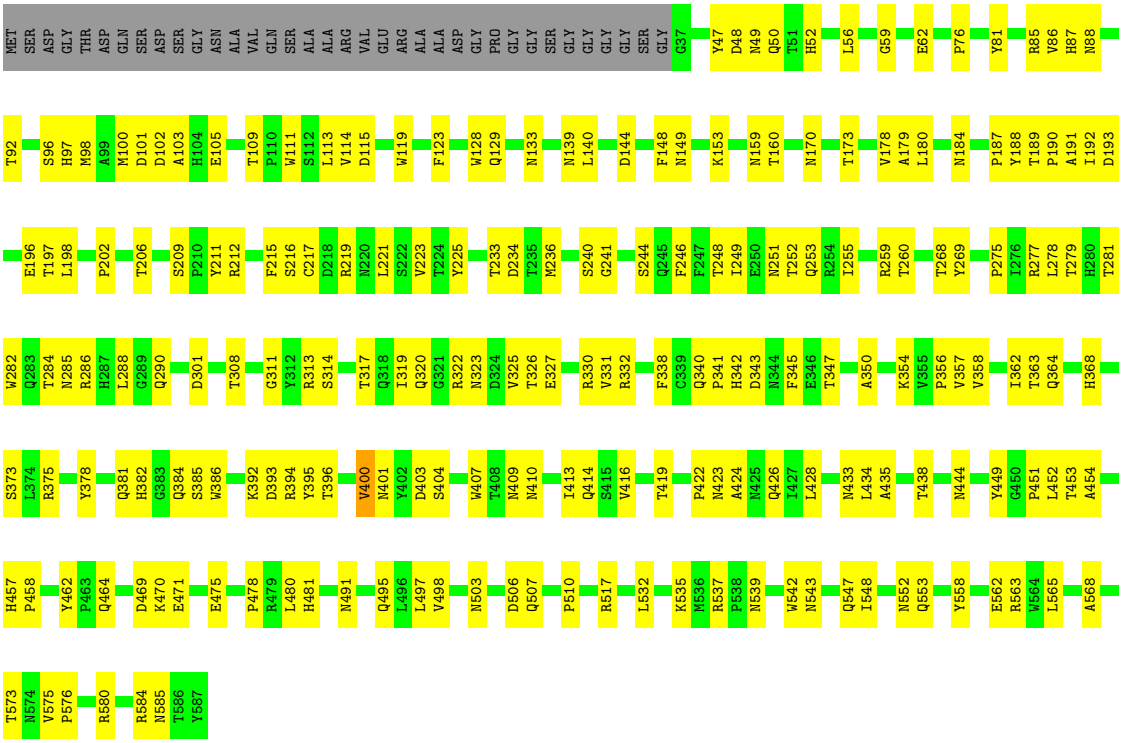
• Molecule 1: Capsid protein VP2

Chain V:



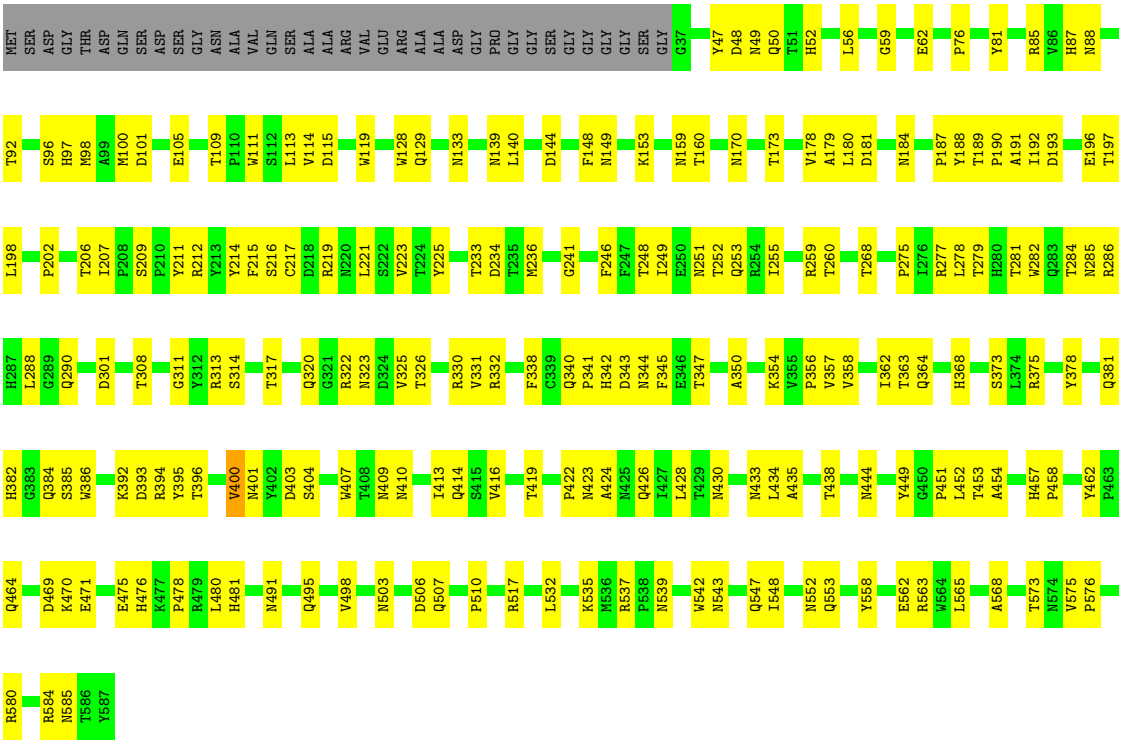
• Molecule 1: Capsid protein VP2

Chain W:



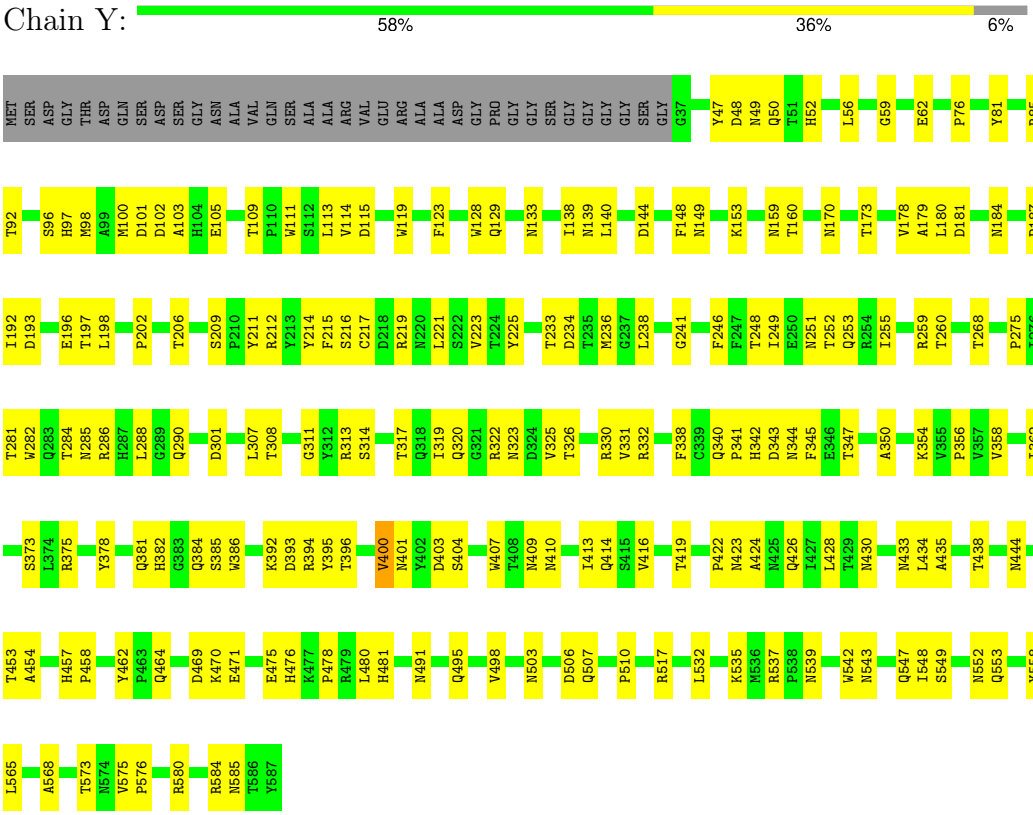
• Molecule 1: Capsid protein VP2

Chain X:



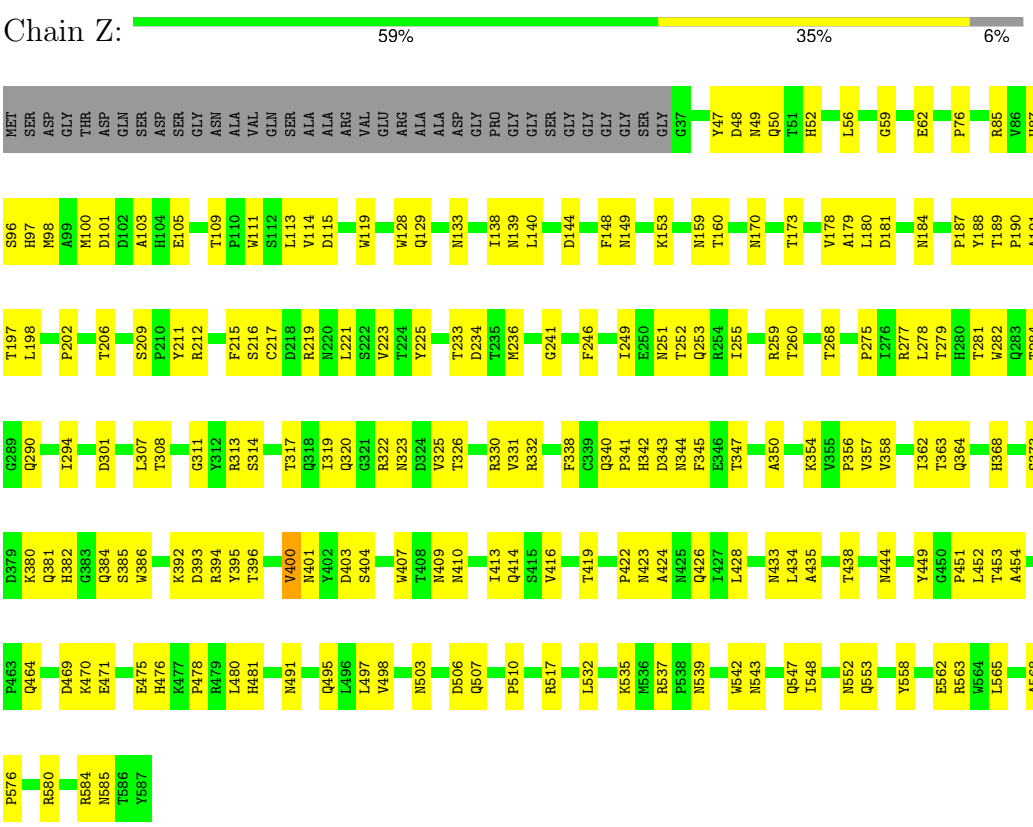
• Molecule 1: Capsid protein VP2

Chain Y:



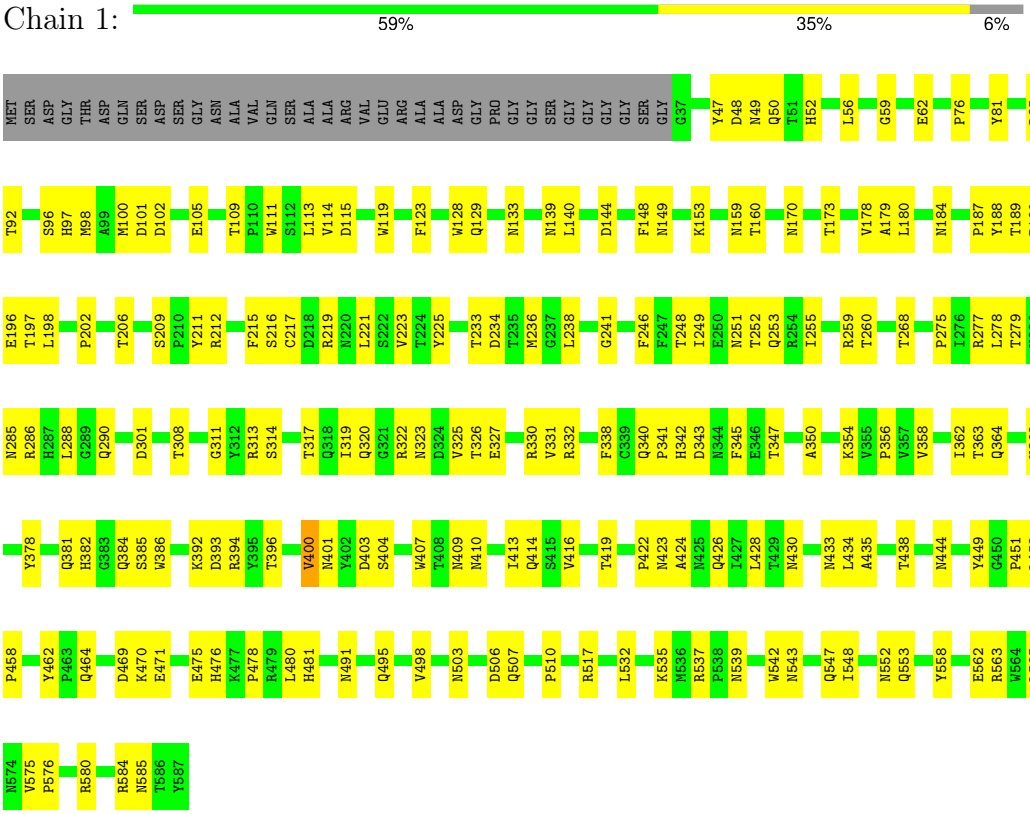
• Molecule 1: Capsid protein VP2

Chain Z:



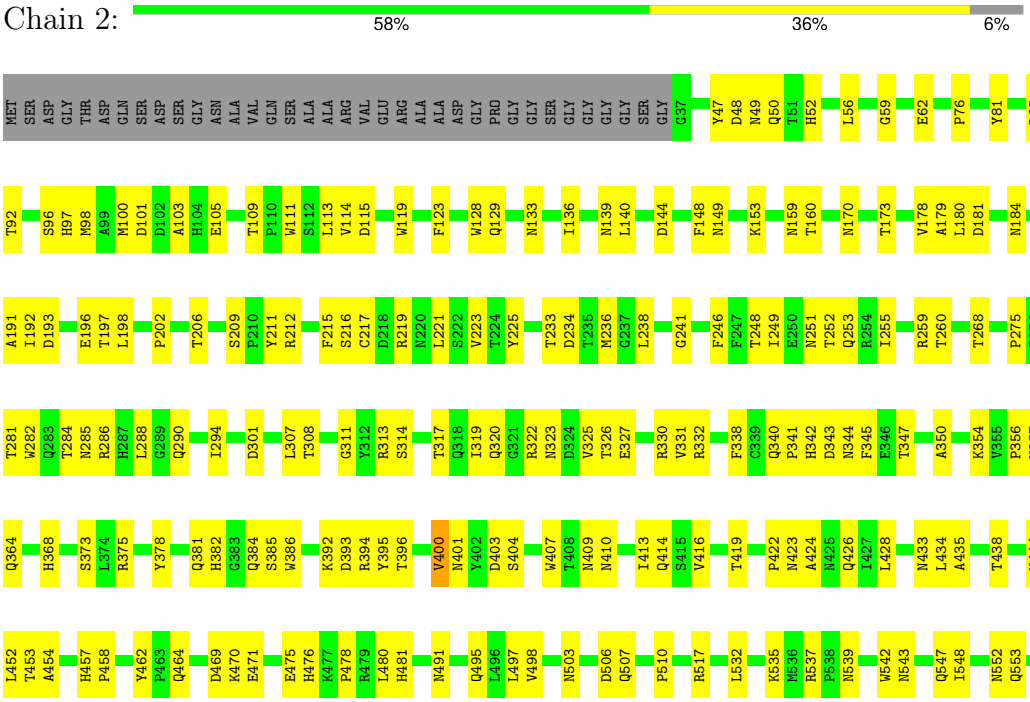
• Molecule 1: Capsid protein VP2

Chain 1:



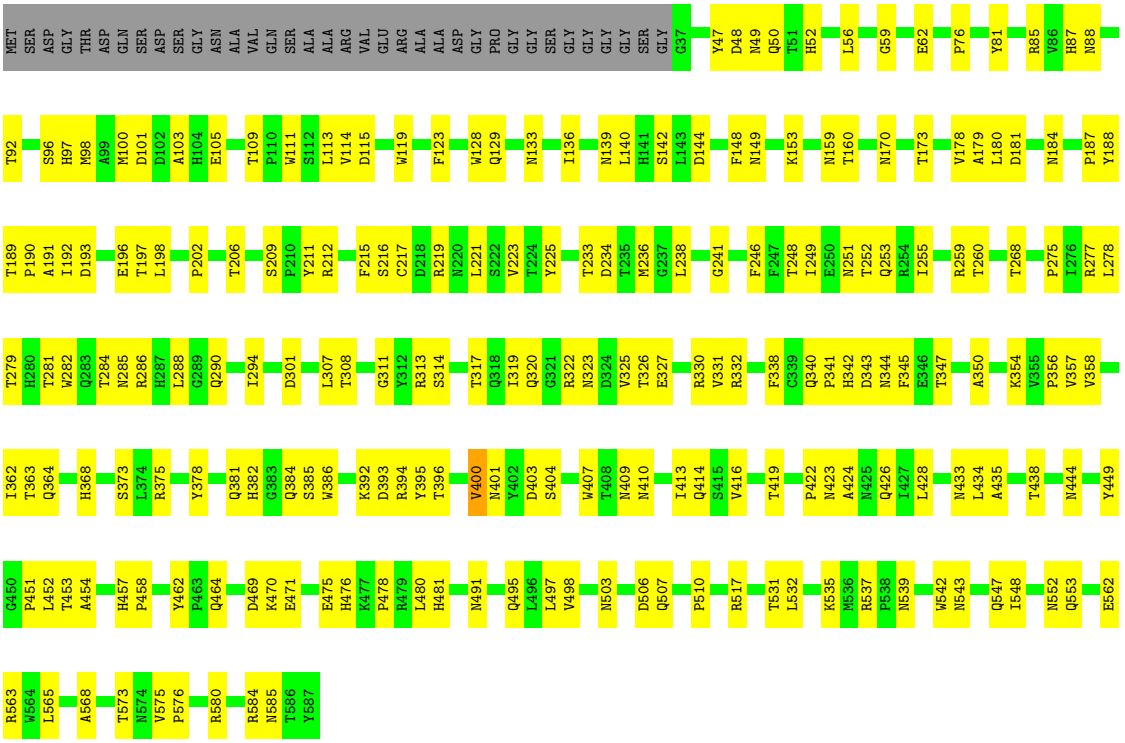
• Molecule 1: Capsid protein VP2

Chain 2:



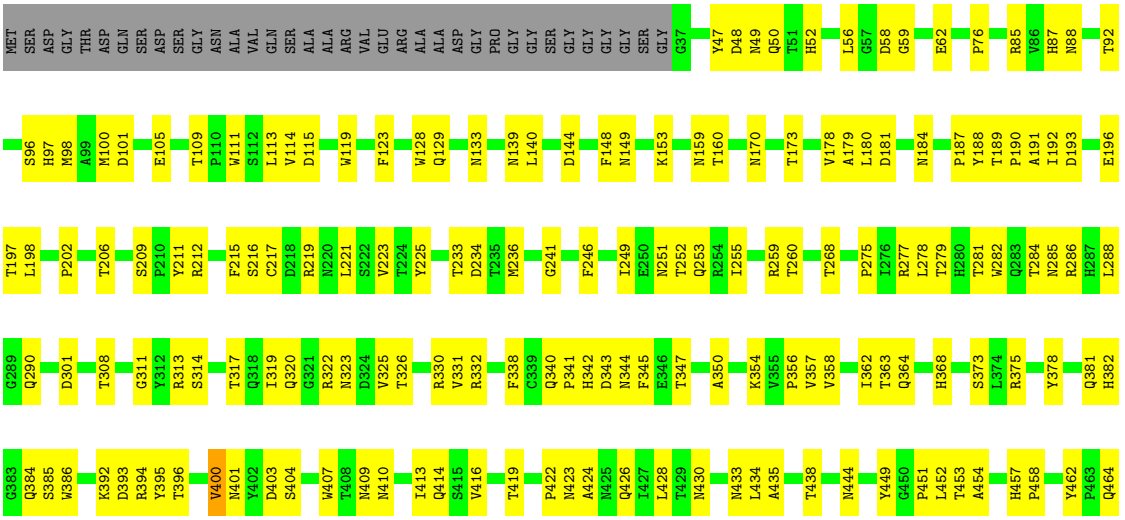
• Molecule 1: Capsid protein VP2

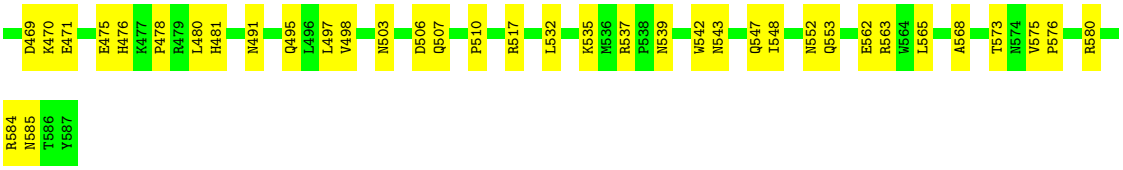
Chain 3:



• Molecule 1: Capsid protein VP2

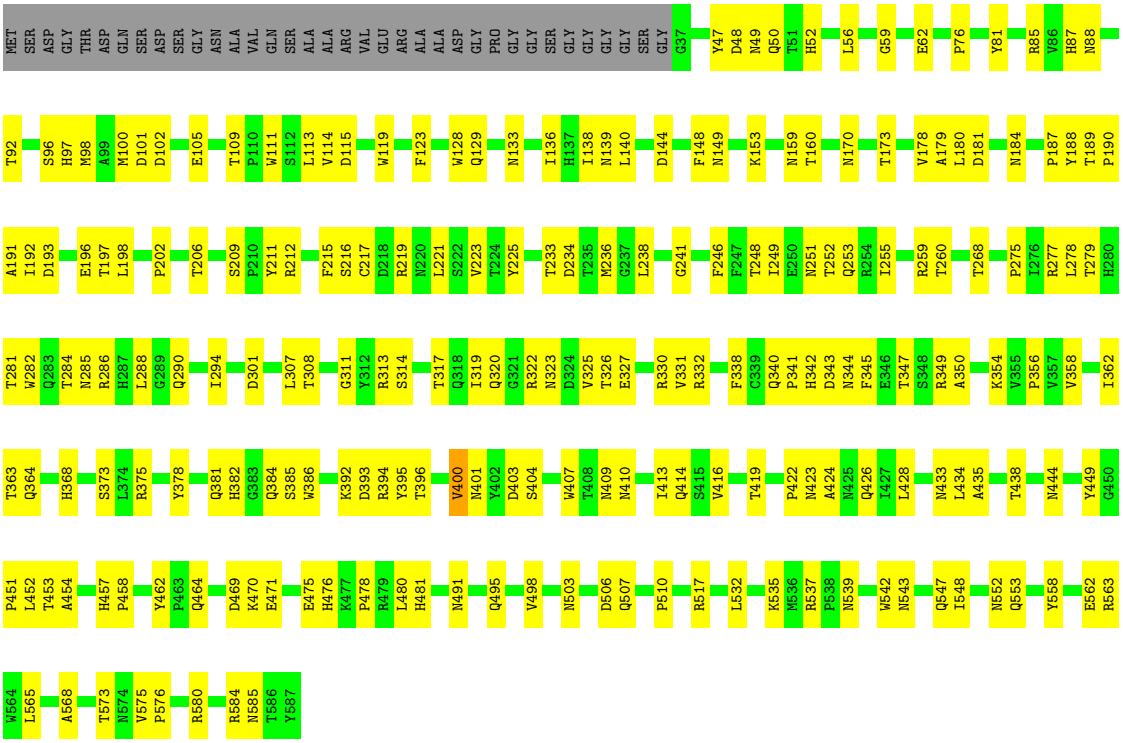
Chain 4:





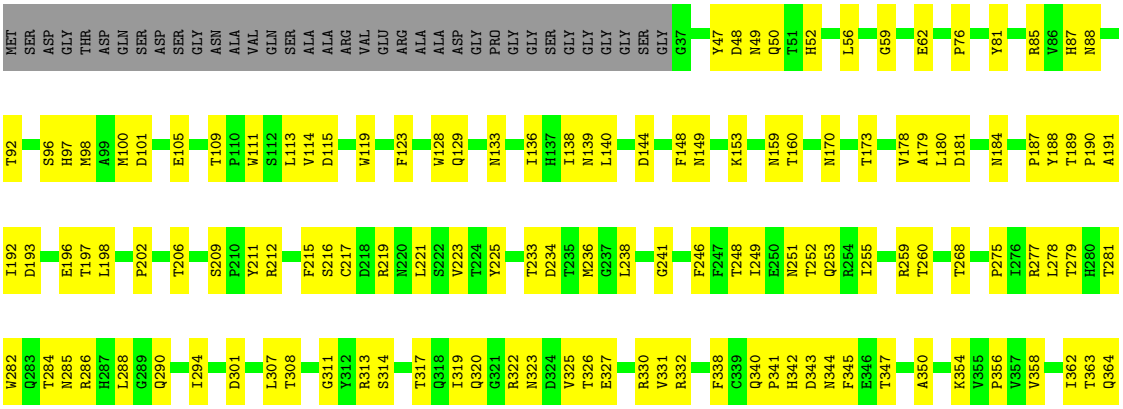
• Molecule 1: Capsid protein VP2

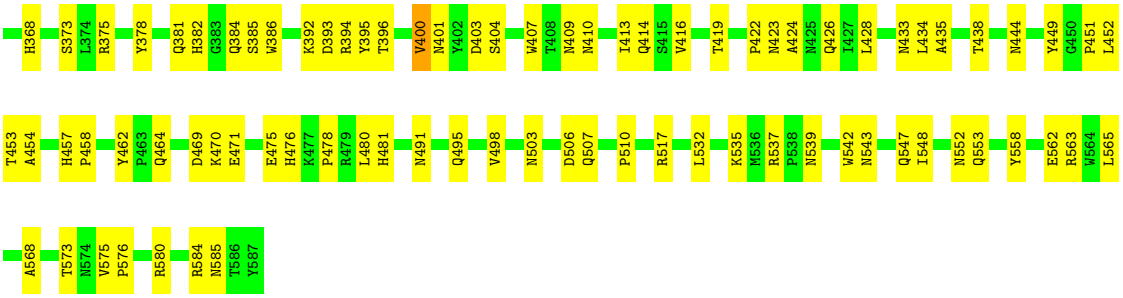
Chain 5:



• Molecule 1: Capsid protein VP2

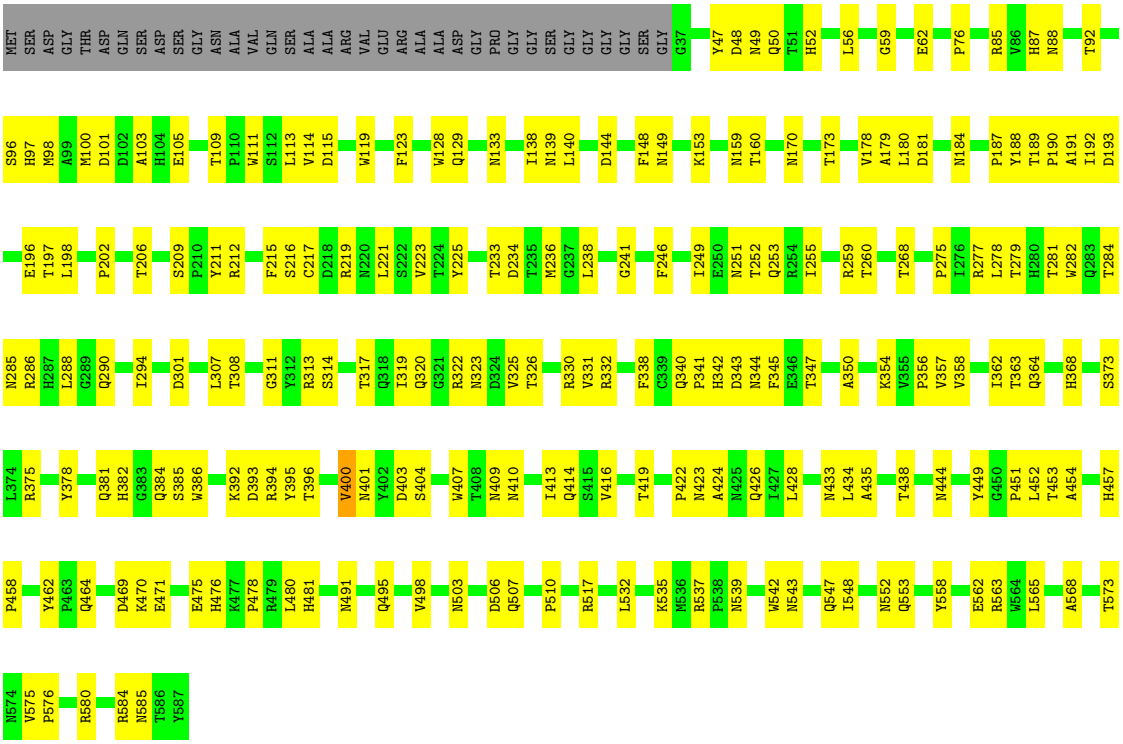
Chain 6:





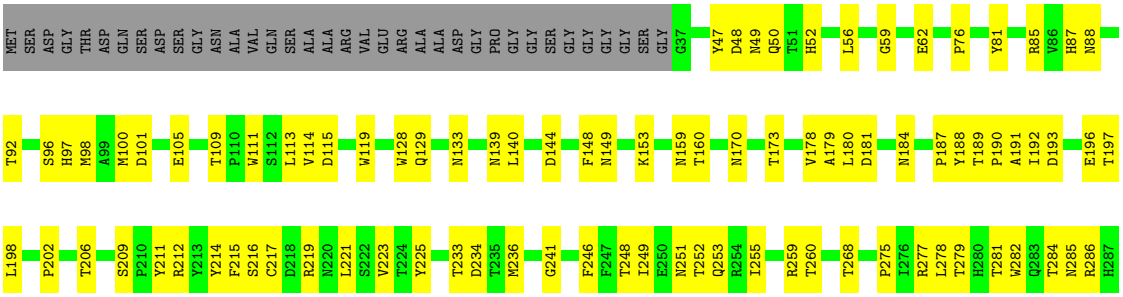
• Molecule 1: Capsid protein VP2

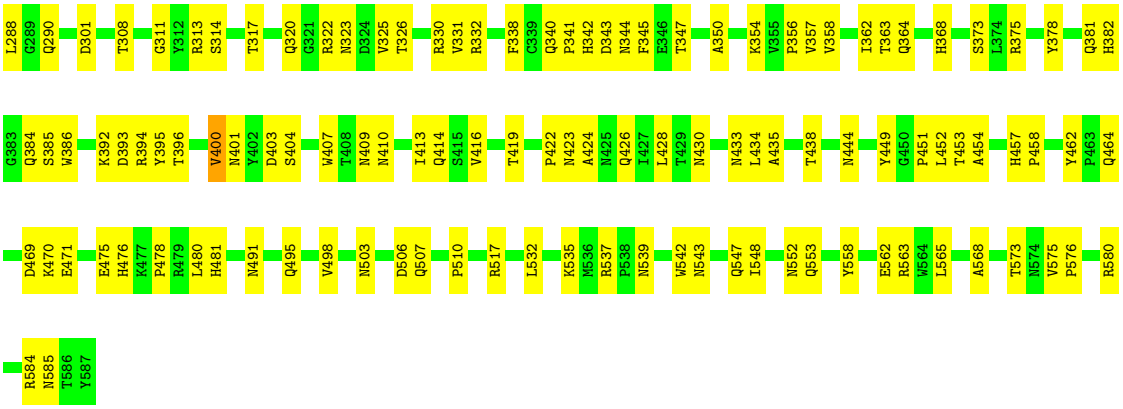
Chain a:



• Molecule 1: Capsid protein VP2

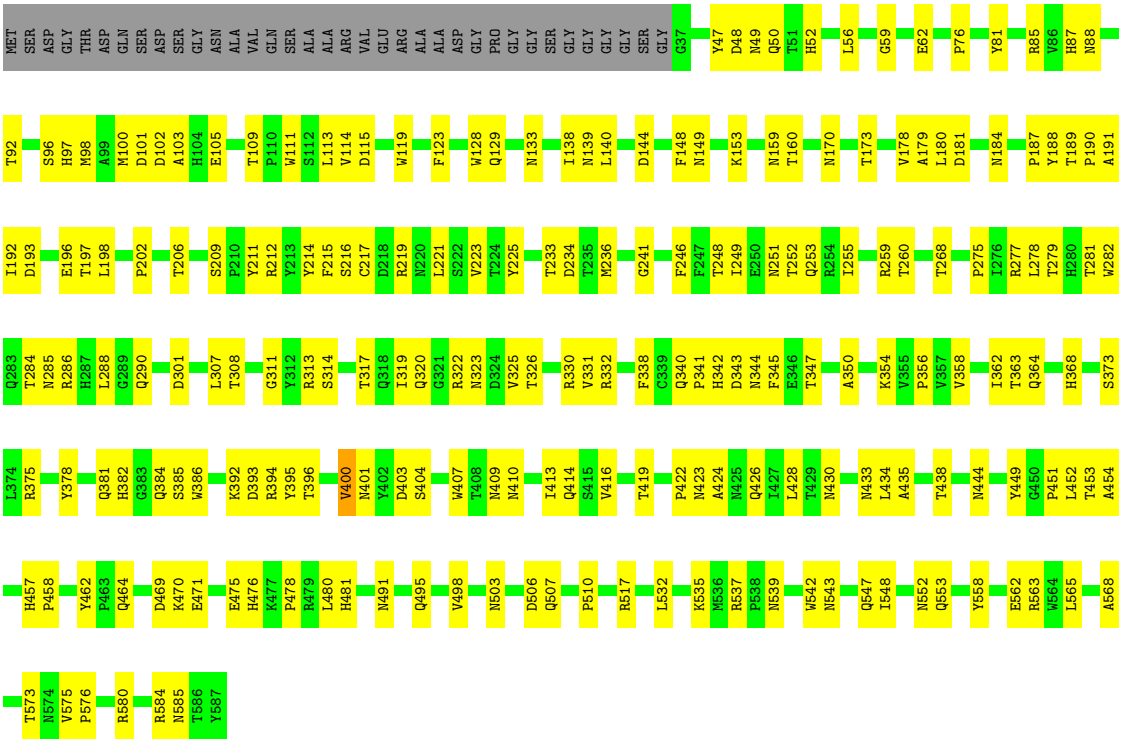
Chain b:





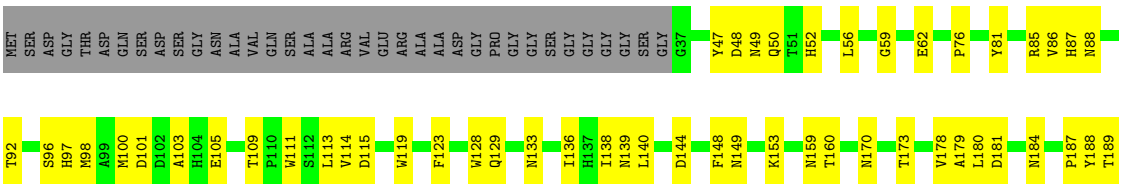
• Molecule 1: Capsid protein VP2

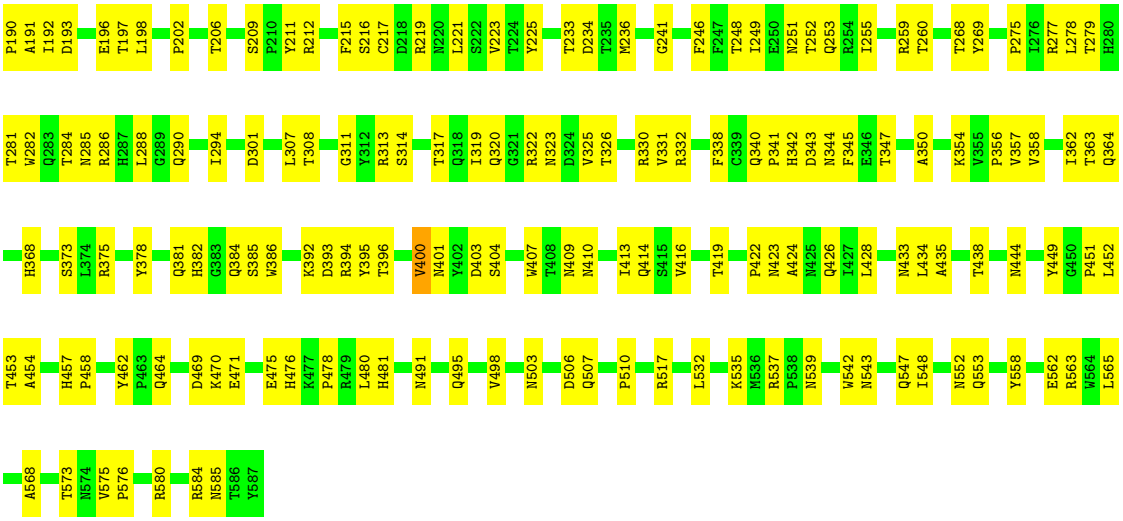
Chain c:



• Molecule 1: Capsid protein VP2

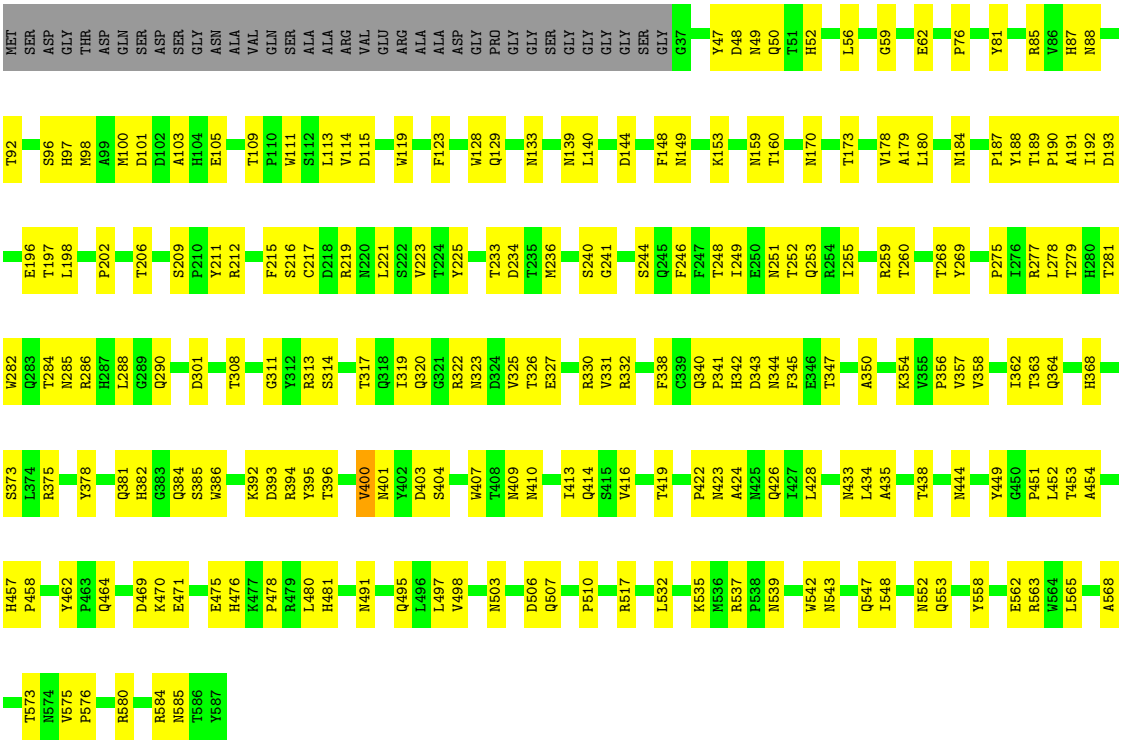
Chain d:





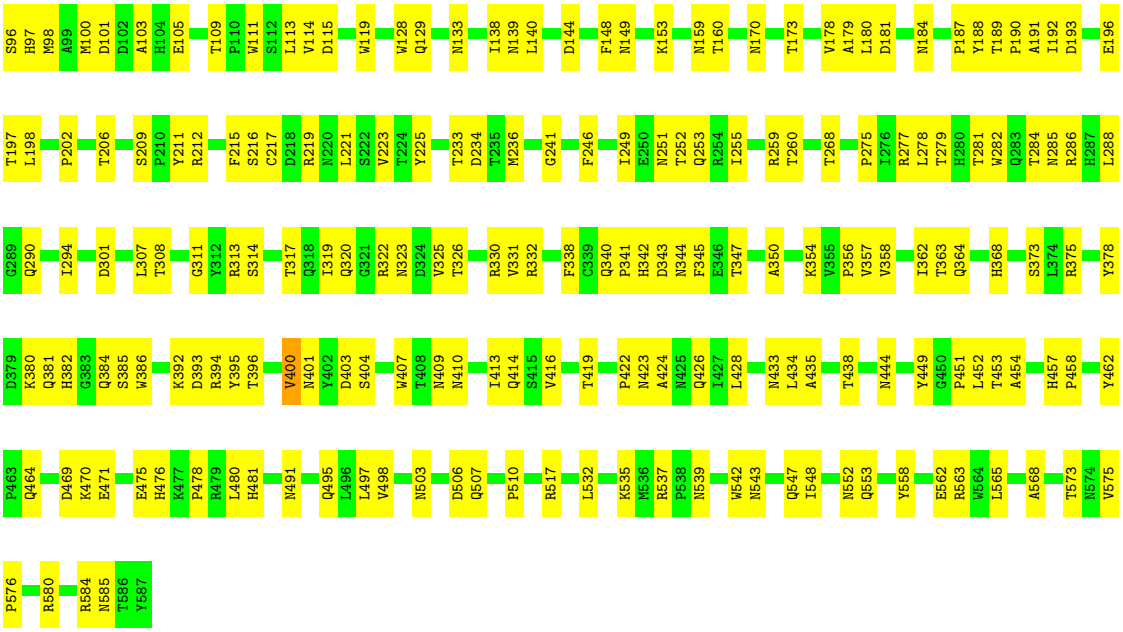
• Molecule 1: Capsid protein VP2

Chain e:



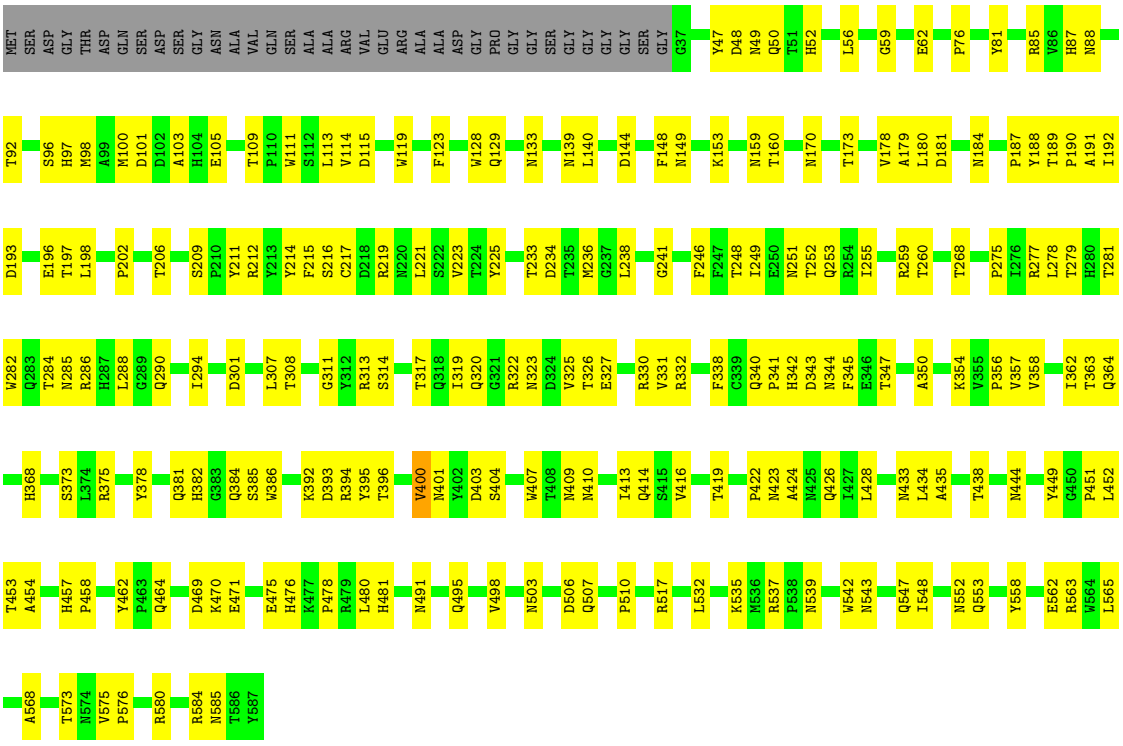
• Molecule 1: Capsid protein VP2

Chain f:



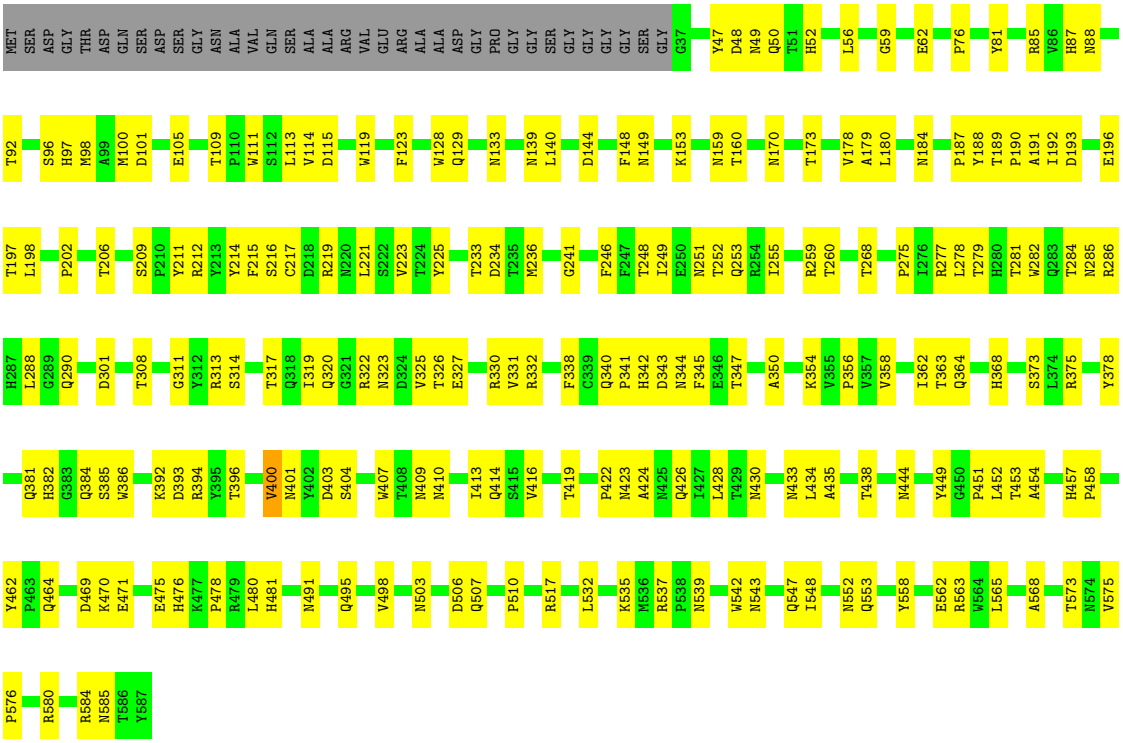
• Molecule 1: Capsid protein VP2

Chain g:



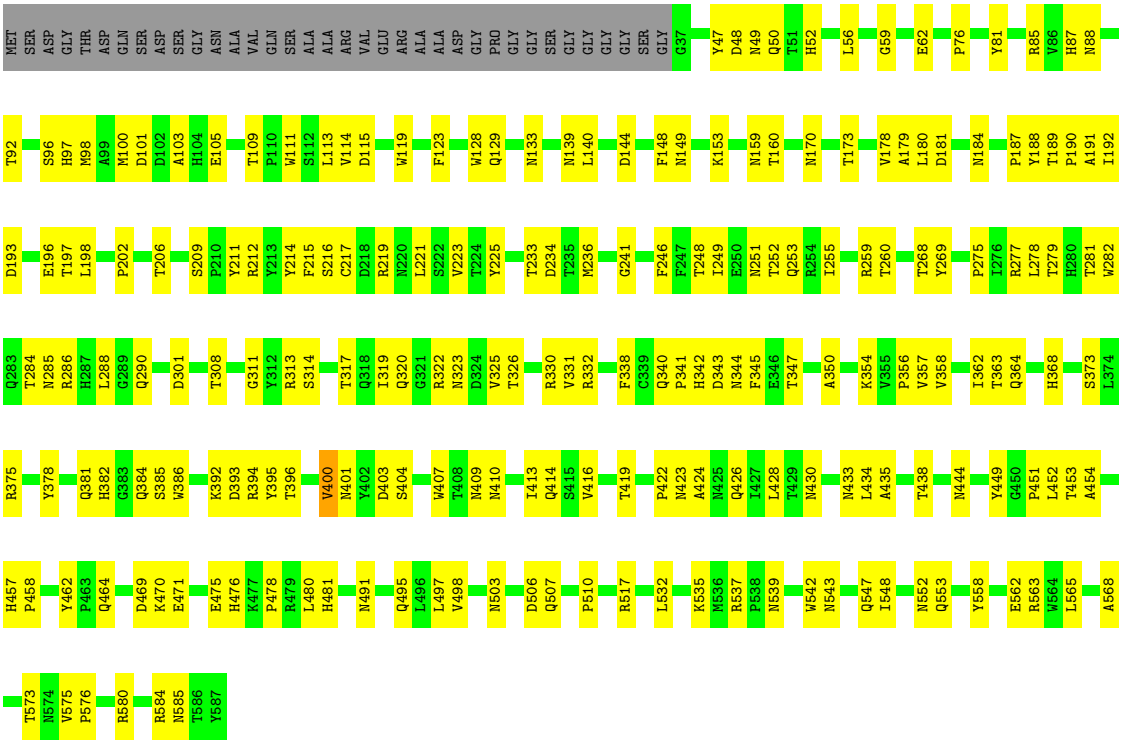
• Molecule 1: Capsid protein VP2

Chain h:



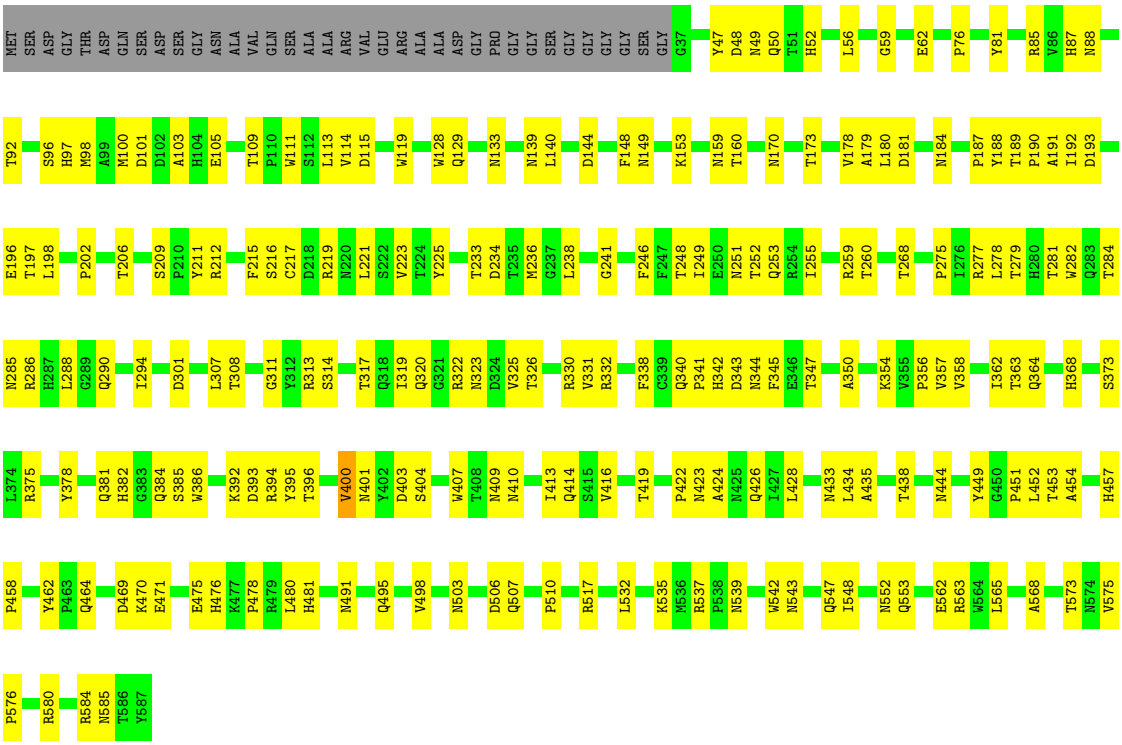
• Molecule 1: Capsid protein VP2

Chain i:



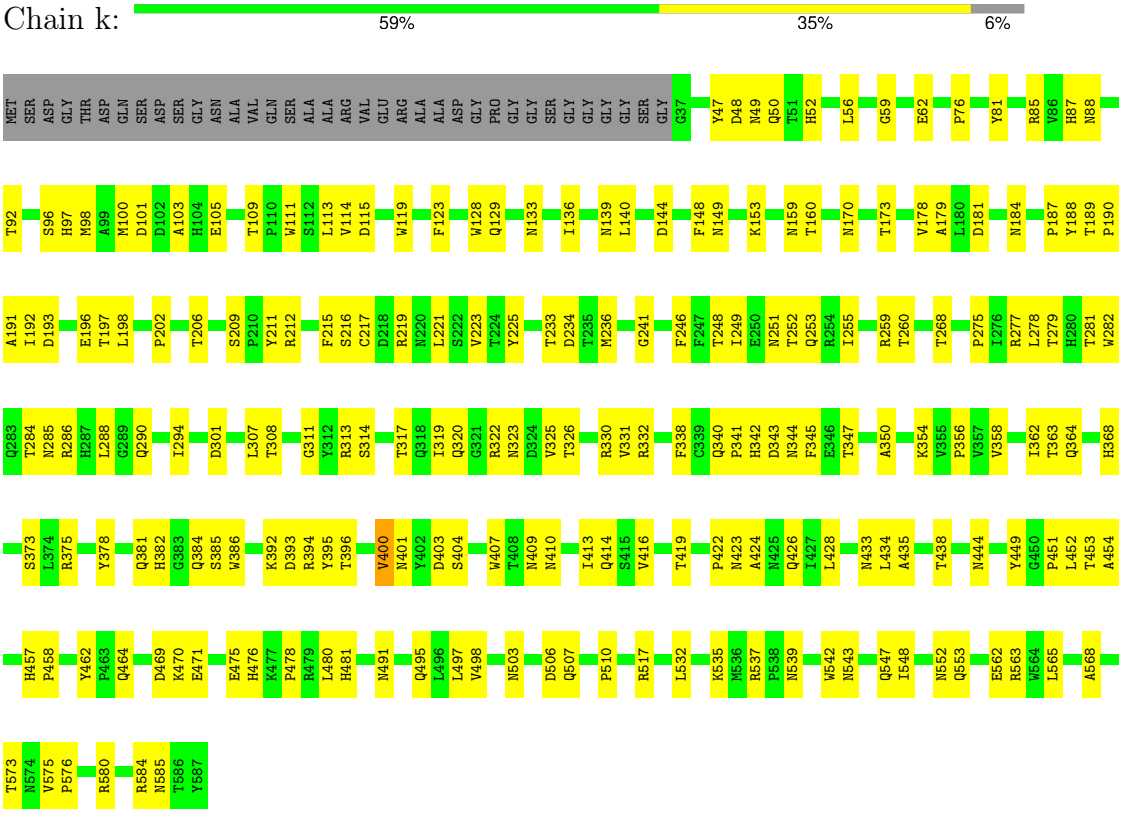
• Molecule 1: Capsid protein VP2

Chain j:



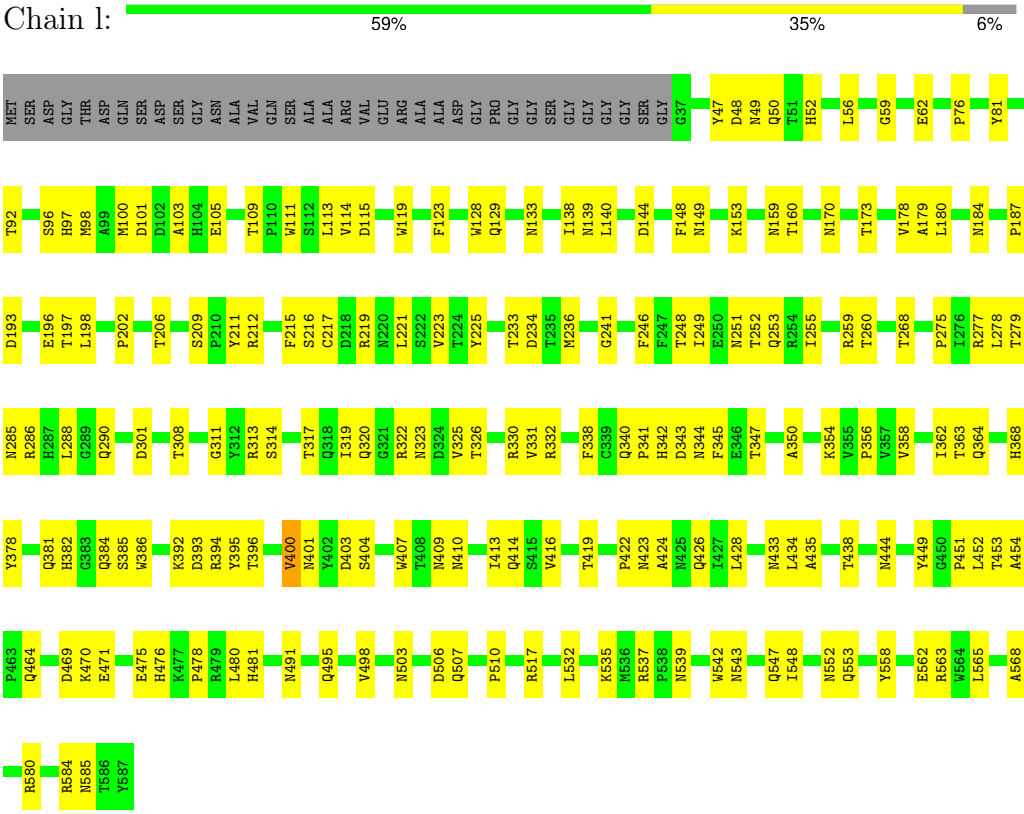
• Molecule 1: Capsid protein VP2

Chain k:



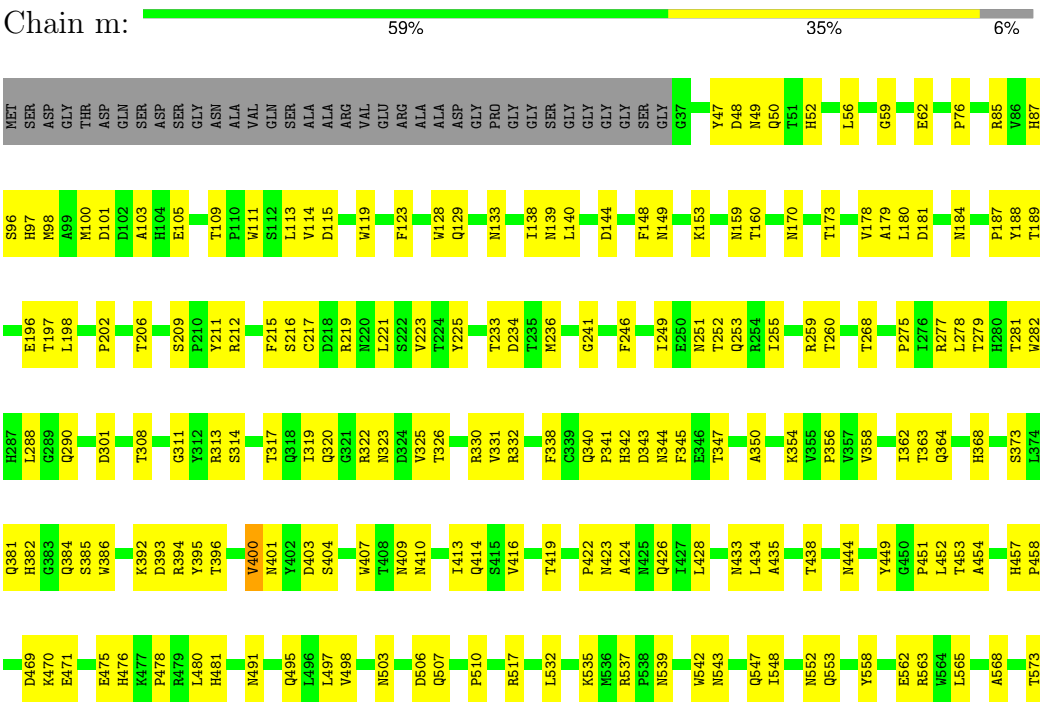
• Molecule 1: Capsid protein VP2

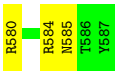
Chain l:



• Molecule 1: Capsid protein VP2

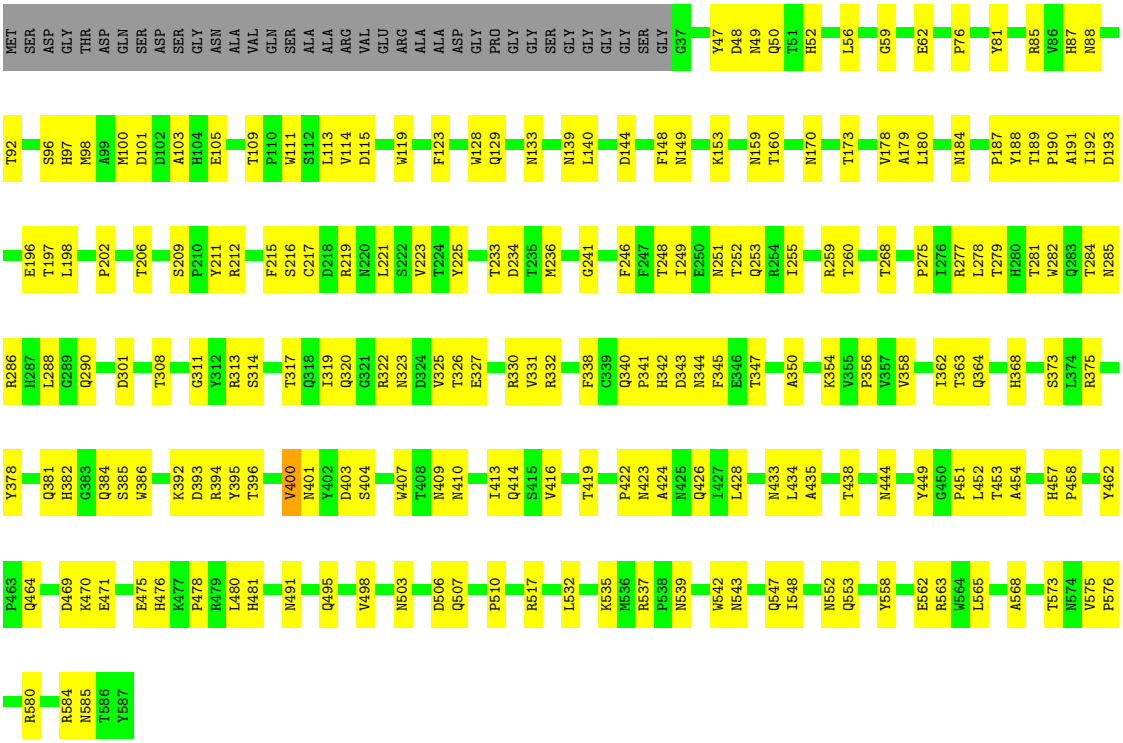
Chain m:





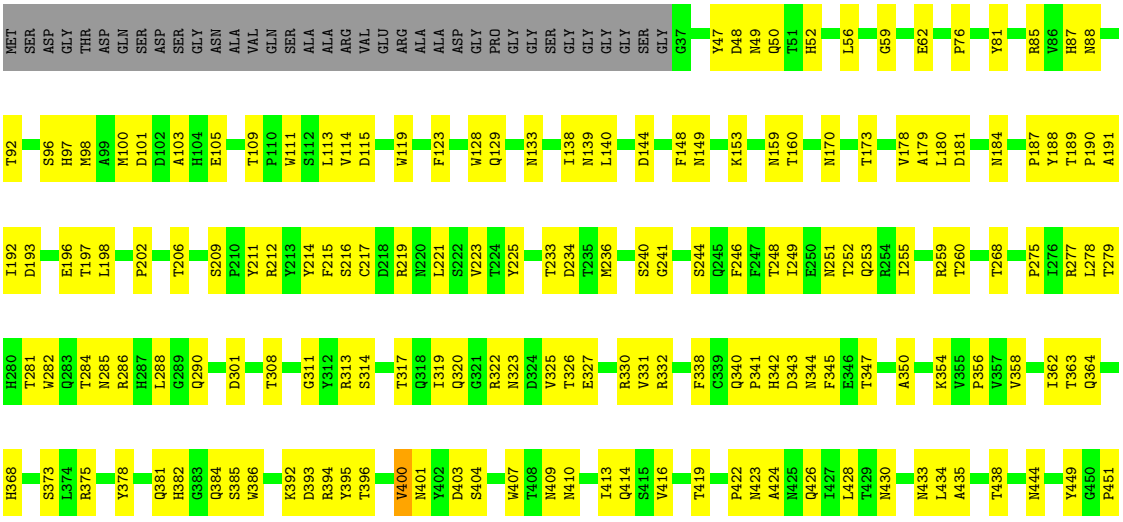
• Molecule 1: Capsid protein VP2

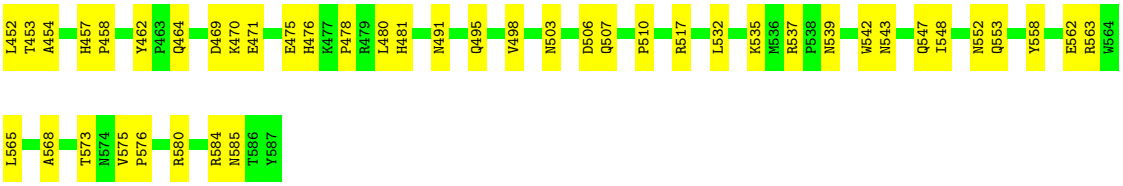
Chain n:



• Molecule 1: Capsid protein VP2

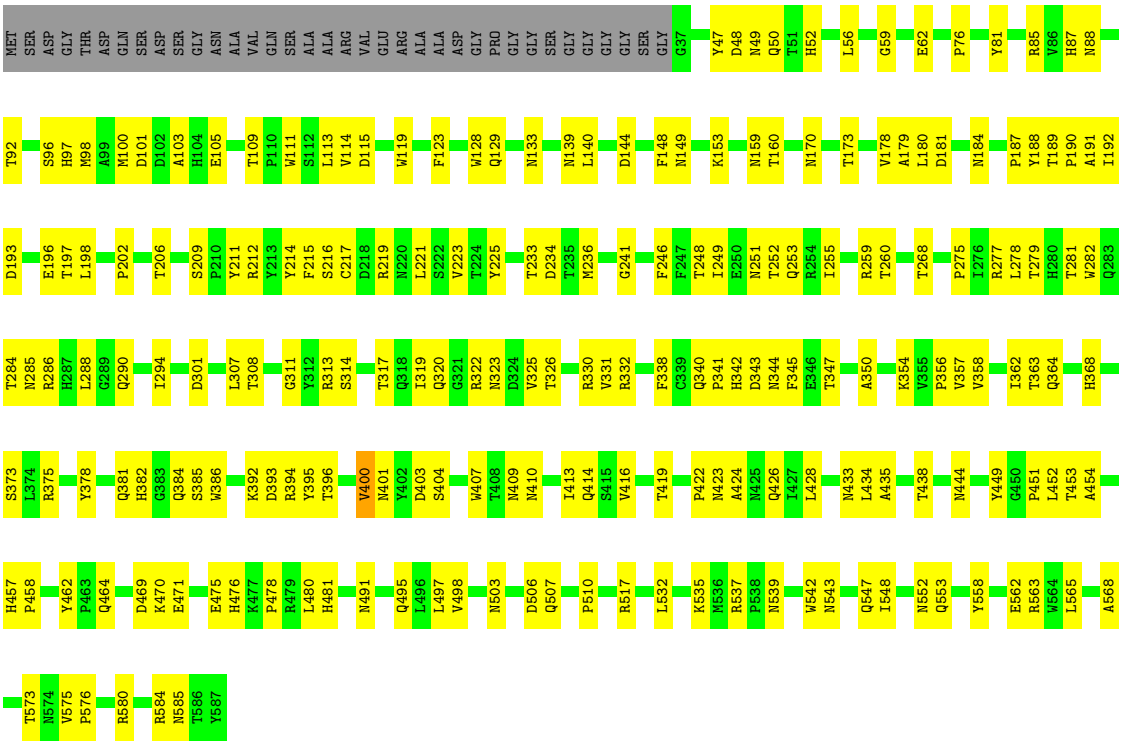
Chain o:





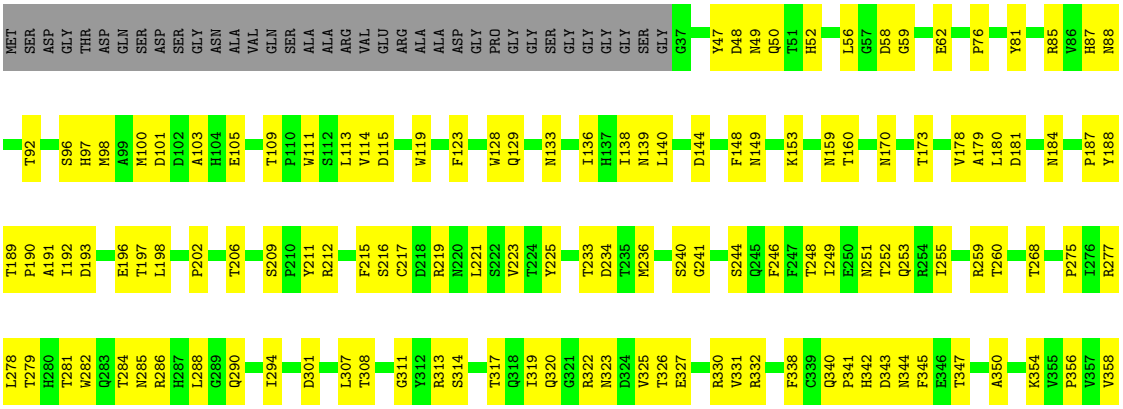
• Molecule 1: Capsid protein VP2

Chain p:



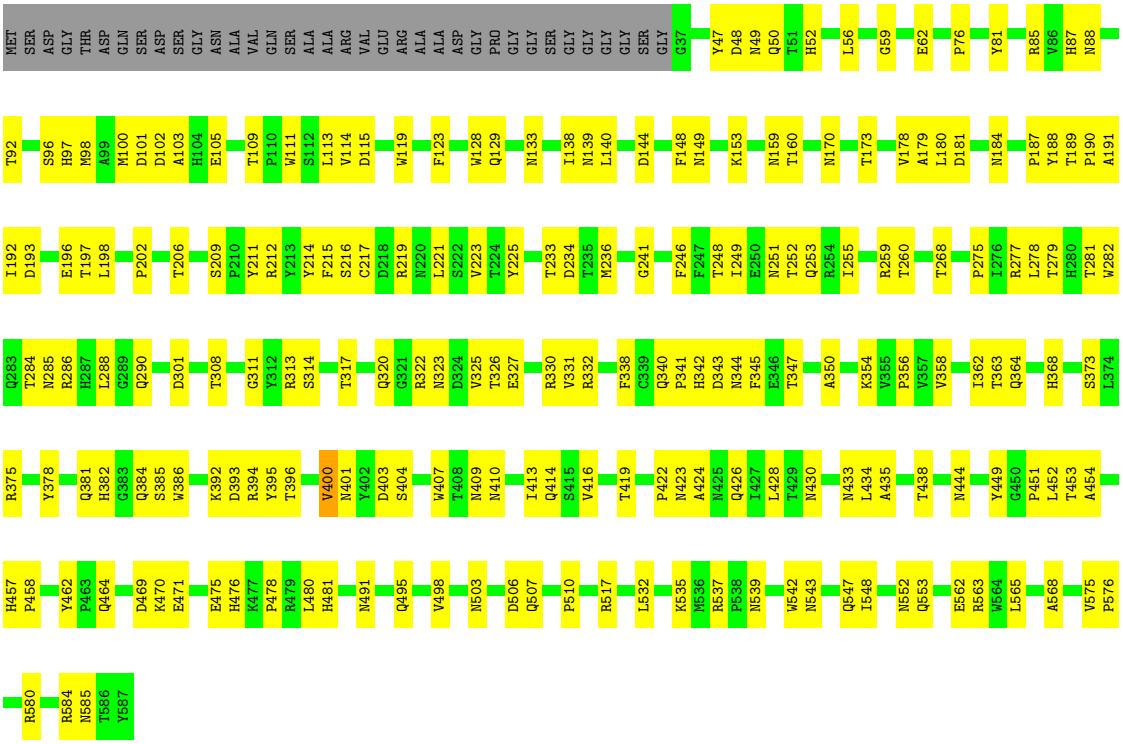
• Molecule 1: Capsid protein VP2

Chain q:



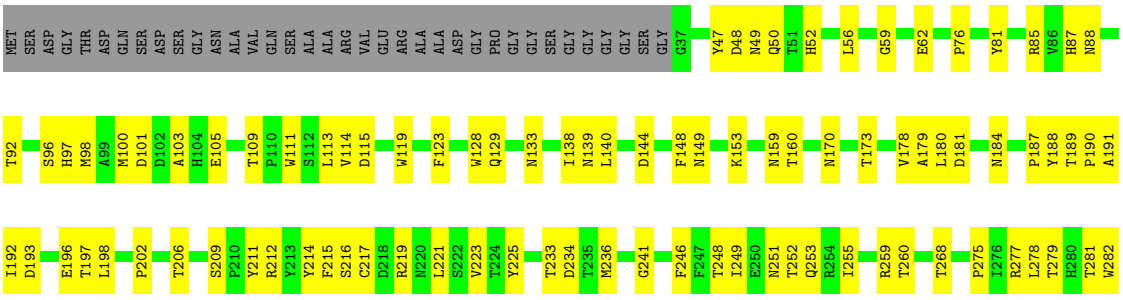
• Molecule 1: Capsid protein VP2

Chain r:



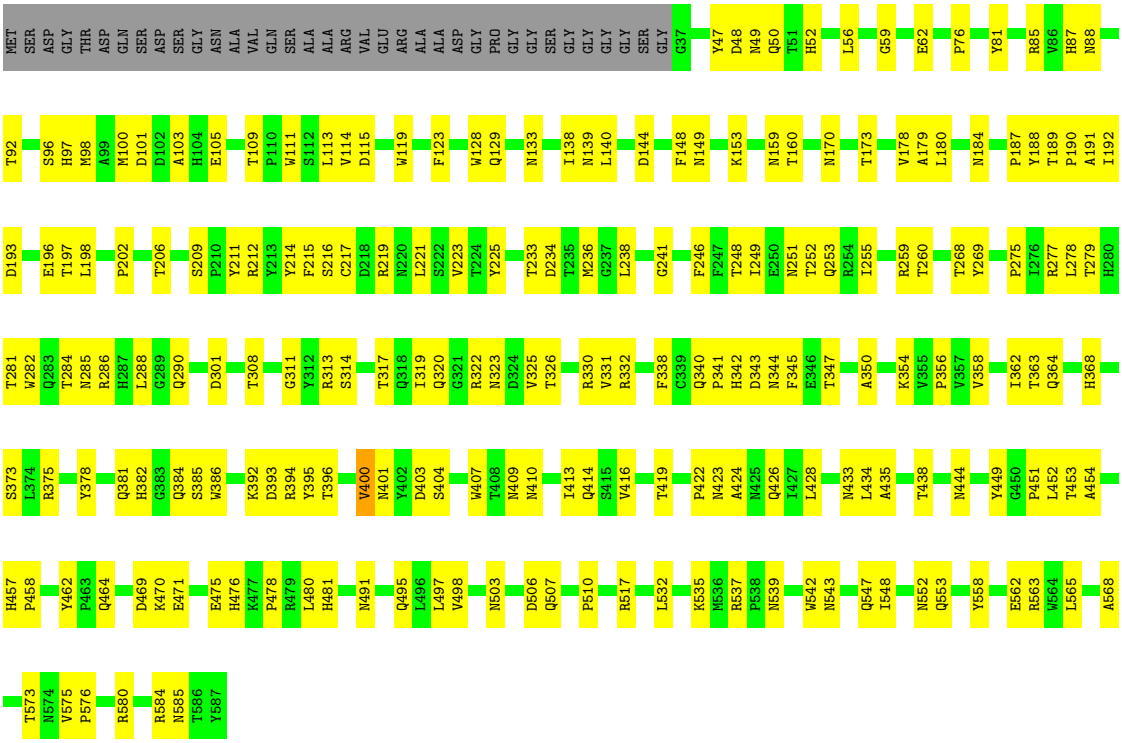
• Molecule 1: Capsid protein VP2

Chain s:



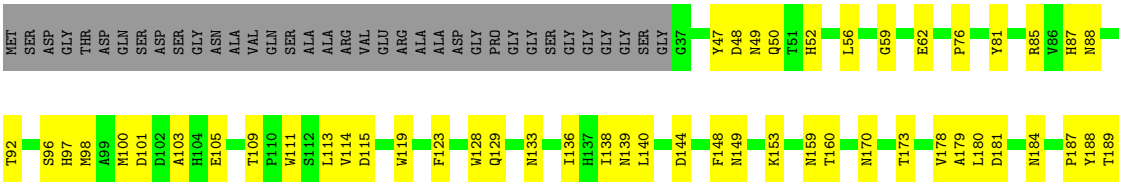
• Molecule 1: Capsid protein VP2

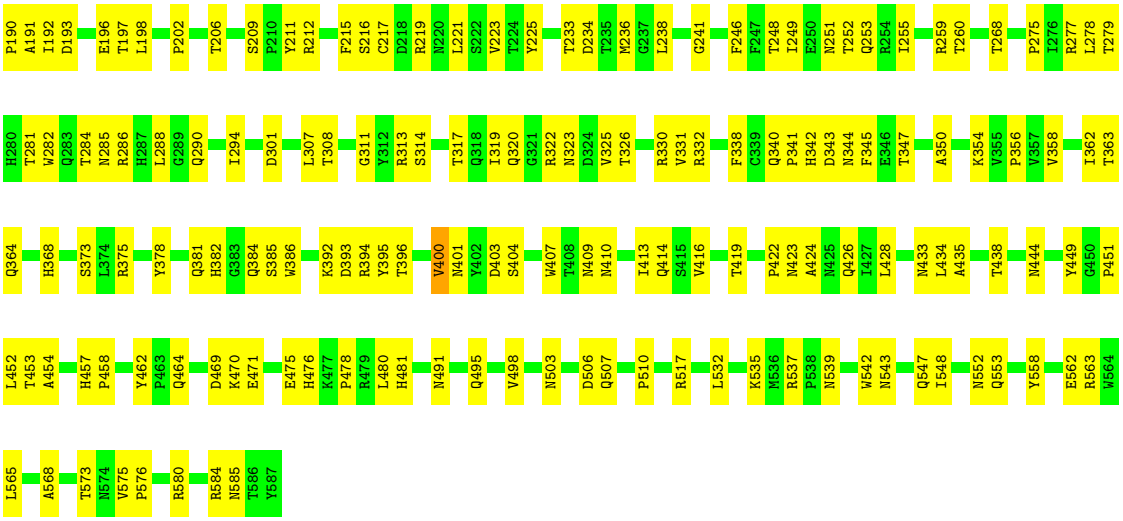
Chain t:



• Molecule 1: Capsid protein VP2

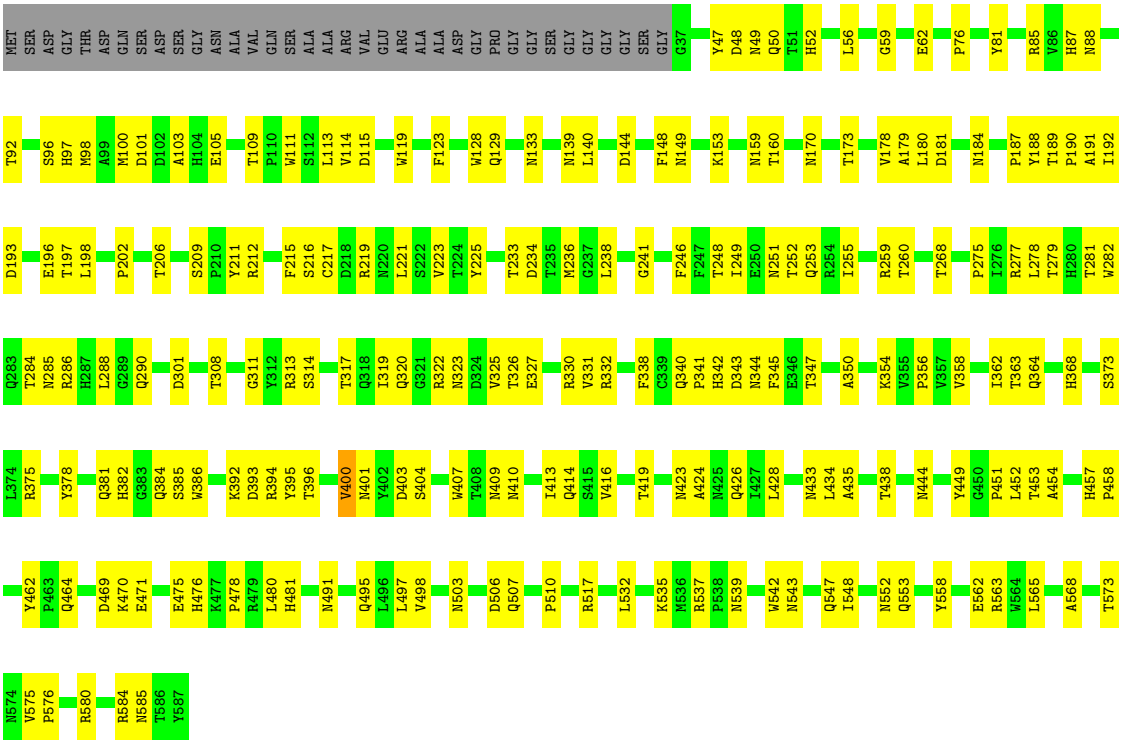
Chain u:





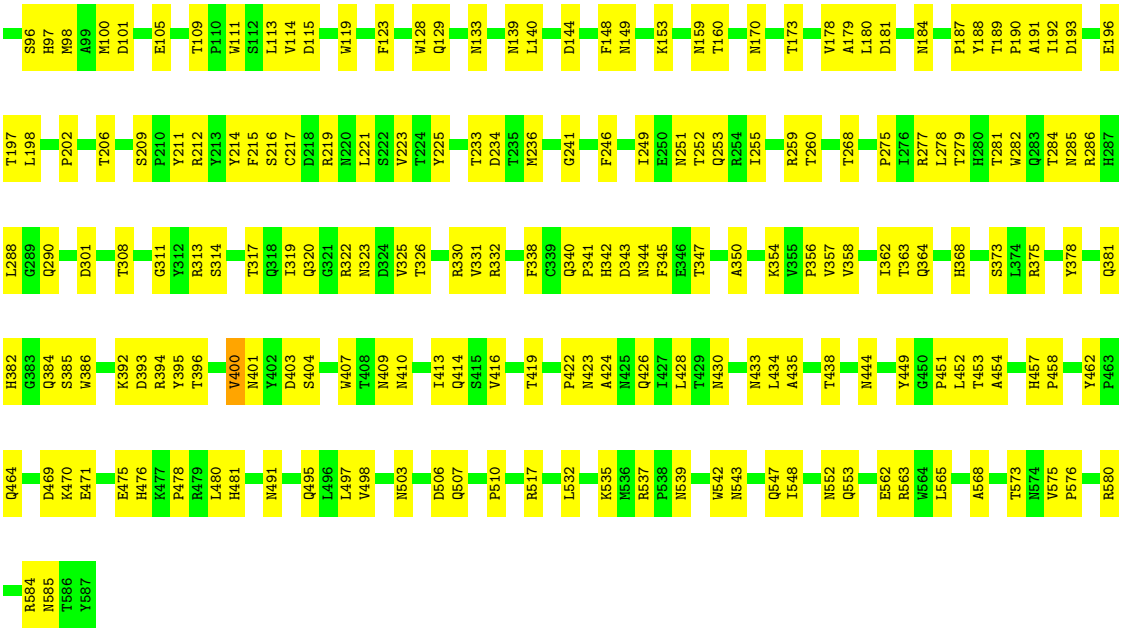
• Molecule 1: Capsid protein VP2

Chain v:



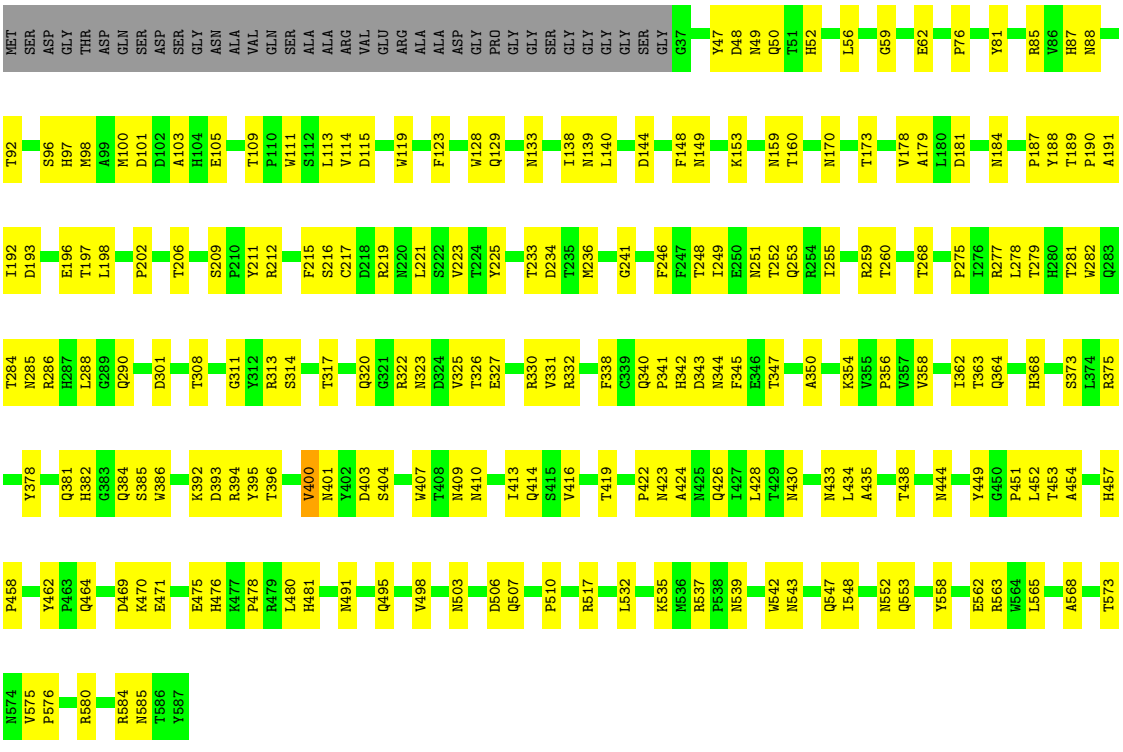
• Molecule 1: Capsid protein VP2

Chain w:



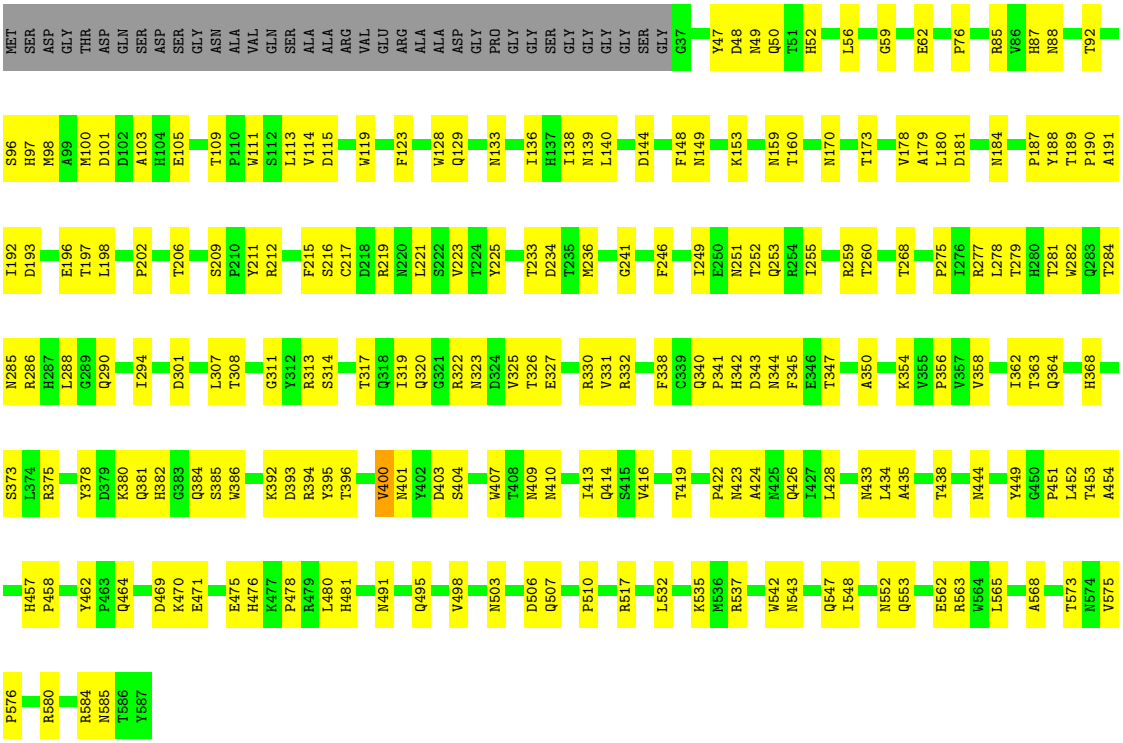
• Molecule 1: Capsid protein VP2

Chain x:



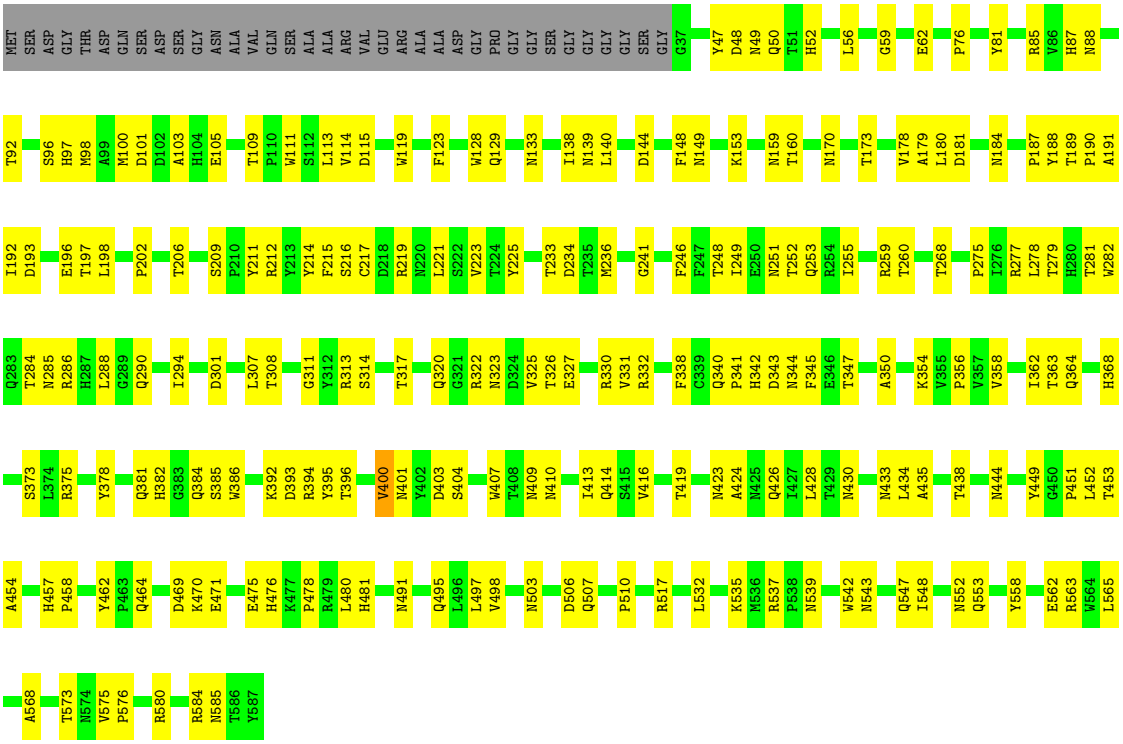
• Molecule 1: Capsid protein VP2

Chain y:



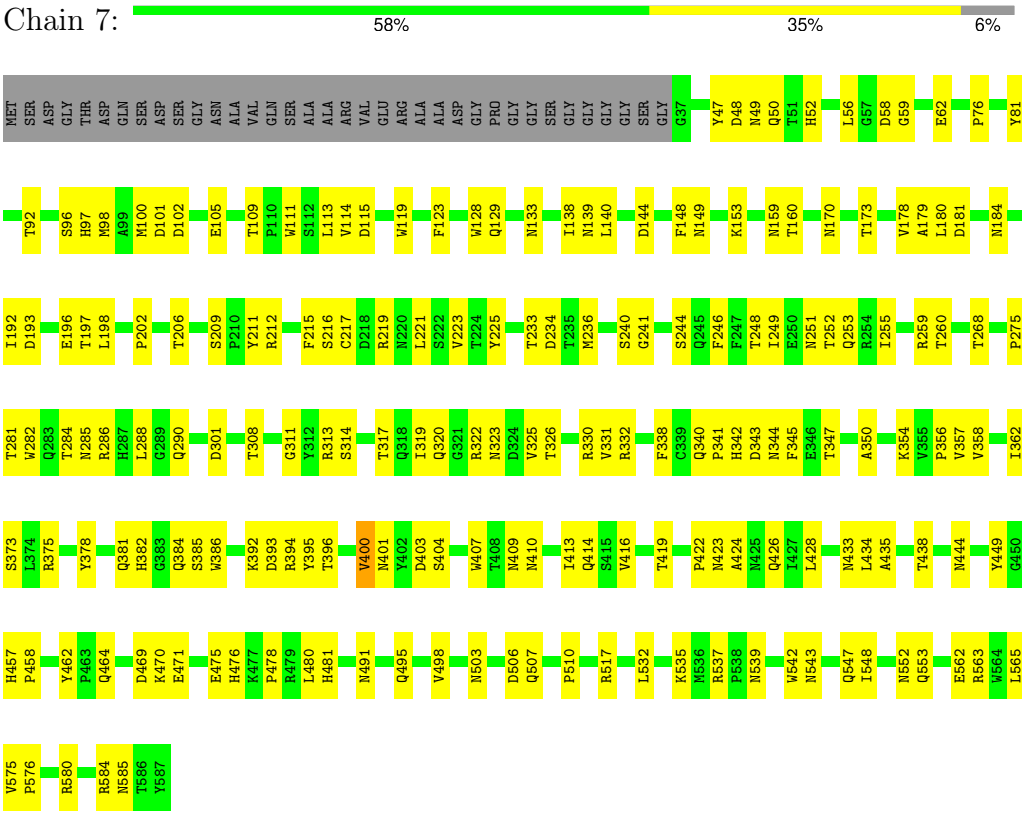
• Molecule 1: Capsid protein VP2

Chain z:



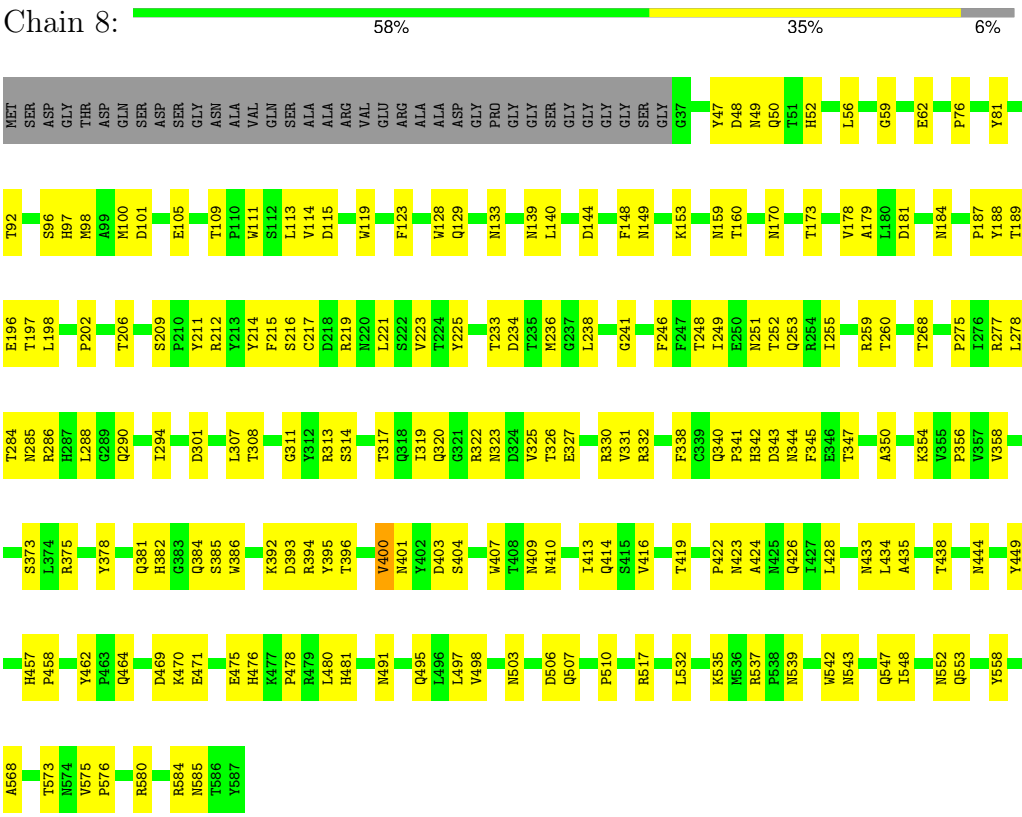
• Molecule 1: Capsid protein VP2

Chain 7:



• Molecule 1: Capsid protein VP2

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	18134	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	1.5	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	14.712	Depositor
Minimum map value	-7.755	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	381.976, 381.976, 381.976	wwPDB
Map dimensions	359, 359, 359	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.064, 1.064, 1.064	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	0.41	0/4528	0.49	0/6193
1	2	0.41	0/4528	0.49	0/6193
1	3	0.41	0/4528	0.49	0/6193
1	4	0.41	0/4528	0.49	0/6193
1	5	0.41	0/4528	0.49	0/6193
1	6	0.41	0/4528	0.49	0/6193
1	7	0.41	0/4528	0.49	0/6193
1	8	0.41	0/4528	0.49	0/6193
1	A	0.41	0/4528	0.49	0/6193
1	B	0.41	0/4528	0.49	0/6193
1	C	0.41	0/4528	0.49	0/6193
1	D	0.41	0/4528	0.49	0/6193
1	E	0.41	0/4528	0.49	0/6193
1	F	0.41	0/4528	0.49	0/6193
1	G	0.41	0/4528	0.49	0/6193
1	H	0.41	0/4528	0.49	0/6193
1	I	0.41	0/4528	0.49	0/6193
1	J	0.41	0/4528	0.49	0/6193
1	K	0.41	0/4528	0.49	0/6193
1	L	0.41	0/4528	0.49	0/6193
1	M	0.41	0/4528	0.49	0/6193
1	N	0.41	0/4528	0.49	0/6193
1	O	0.41	0/4528	0.49	0/6193
1	P	0.41	0/4528	0.49	0/6193
1	Q	0.41	0/4528	0.49	0/6193
1	R	0.41	0/4528	0.49	0/6193
1	S	0.41	0/4528	0.49	0/6193
1	T	0.41	0/4528	0.49	0/6193
1	U	0.41	0/4528	0.49	0/6193
1	V	0.41	0/4528	0.49	0/6193
1	W	0.41	0/4528	0.49	0/6193
1	X	0.41	0/4528	0.49	0/6193
1	Y	0.41	0/4528	0.49	0/6193
1	Z	0.41	0/4528	0.49	0/6193

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	a	0.41	0/4528	0.49	0/6193
1	b	0.41	0/4528	0.49	0/6193
1	c	0.41	0/4528	0.49	0/6193
1	d	0.41	0/4528	0.49	0/6193
1	e	0.41	0/4528	0.49	0/6193
1	f	0.41	0/4528	0.49	0/6193
1	g	0.41	0/4528	0.49	0/6193
1	h	0.41	0/4528	0.49	0/6193
1	i	0.41	0/4528	0.49	0/6193
1	j	0.41	0/4528	0.49	0/6193
1	k	0.41	0/4528	0.49	0/6193
1	l	0.41	0/4528	0.49	0/6193
1	m	0.41	0/4528	0.49	0/6193
1	n	0.41	0/4528	0.49	0/6193
1	o	0.41	0/4528	0.49	0/6193
1	p	0.41	0/4528	0.49	0/6193
1	q	0.41	0/4528	0.49	0/6193
1	r	0.41	0/4528	0.49	0/6193
1	s	0.41	0/4528	0.49	0/6193
1	t	0.41	0/4528	0.49	0/6193
1	u	0.41	0/4528	0.49	0/6193
1	v	0.41	0/4528	0.49	0/6193
1	w	0.41	0/4528	0.49	0/6193
1	x	0.41	0/4528	0.49	0/6193
1	y	0.41	0/4528	0.49	0/6193
1	z	0.41	0/4528	0.49	0/6193
All	All	0.41	0/271680	0.49	0/371580

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4399	0	4169	181	0
1	2	4399	0	4169	190	0
1	3	4399	0	4169	192	0
1	4	4399	0	4169	185	0
1	5	4399	0	4169	192	0
1	6	4399	0	4169	190	0
1	7	4399	0	4169	186	0
1	8	4399	0	4169	185	0
1	A	4399	0	4169	189	0
1	B	4399	0	4169	184	0
1	C	4399	0	4169	189	0
1	D	4399	0	4169	189	0
1	E	4399	0	4169	183	0
1	F	4399	0	4169	186	0
1	G	4399	0	4169	185	0
1	H	4399	0	4169	190	0
1	I	4399	0	4169	188	0
1	J	4399	0	4169	186	0
1	K	4399	0	4169	188	0
1	L	4399	0	4169	189	0
1	M	4399	0	4169	189	0
1	N	4399	0	4169	188	0
1	O	4399	0	4169	184	0
1	P	4399	0	4169	184	0
1	Q	4399	0	4169	188	0
1	R	4399	0	4169	187	0
1	S	4399	0	4169	185	0
1	T	4399	0	4169	184	0
1	U	4399	0	4169	188	0
1	V	4399	0	4169	189	0
1	W	4399	0	4169	187	0
1	X	4399	0	4169	187	0
1	Y	4399	0	4169	193	0
1	Z	4399	0	4169	187	0
1	a	4399	0	4169	187	0
1	b	4399	0	4169	185	0
1	c	4399	0	4169	190	0
1	d	4399	0	4169	191	0
1	e	4399	0	4169	190	0
1	f	4399	0	4169	186	0
1	g	4399	0	4169	189	0
1	h	4399	0	4169	182	0
1	i	4399	0	4169	188	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4399	0	4169	186	0
1	k	4399	0	4169	185	0
1	l	4399	0	4169	185	0
1	m	4399	0	4169	188	0
1	n	4399	0	4169	183	0
1	o	4399	0	4169	187	0
1	p	4399	0	4169	186	0
1	q	4399	0	4169	191	0
1	r	4399	0	4169	185	0
1	s	4399	0	4169	191	0
1	t	4399	0	4169	188	0
1	u	4399	0	4169	188	0
1	v	4399	0	4169	187	0
1	w	4399	0	4169	185	0
1	x	4399	0	4169	186	0
1	y	4399	0	4169	184	0
1	z	4399	0	4169	189	0
All	All	263940	0	250140	9055	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 18.

All (9055) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:340:GLN:HE22	1:S:358:VAL:HG22	1.34	0.93
1:v:340:GLN:HE22	1:v:358:VAL:HG22	1.34	0.93
1:t:340:GLN:HE22	1:t:358:VAL:HG22	1.34	0.93
1:G:340:GLN:HE22	1:G:358:VAL:HG22	1.34	0.93
1:U:340:GLN:HE22	1:U:358:VAL:HG22	1.34	0.93
1:K:340:GLN:HE22	1:K:358:VAL:HG22	1.34	0.93
1:M:340:GLN:HE22	1:M:358:VAL:HG22	1.34	0.93
1:e:340:GLN:HE22	1:e:358:VAL:HG22	1.34	0.93
1:i:340:GLN:HE22	1:i:358:VAL:HG22	1.34	0.93
1:q:340:GLN:HE22	1:q:358:VAL:HG22	1.34	0.92
1:Y:340:GLN:HE22	1:Y:358:VAL:HG22	1.34	0.92
1:g:340:GLN:HE22	1:g:358:VAL:HG22	1.34	0.92
1:W:340:GLN:HE22	1:W:358:VAL:HG22	1.34	0.92
1:c:340:GLN:HE22	1:c:358:VAL:HG22	1.34	0.92
1:V:340:GLN:HE22	1:V:358:VAL:HG22	1.34	0.92
1:a:340:GLN:HE22	1:a:358:VAL:HG22	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:340:GLN:HE22	1:h:358:VAL:HG22	1.34	0.92
1:L:340:GLN:HE22	1:L:358:VAL:HG22	1.34	0.92
1:T:340:GLN:HE22	1:T:358:VAL:HG22	1.34	0.92
1:4:340:GLN:HE22	1:4:358:VAL:HG22	1.34	0.92
1:1:340:GLN:HE22	1:1:358:VAL:HG22	1.34	0.92
1:w:340:GLN:HE22	1:w:358:VAL:HG22	1.34	0.92
1:m:340:GLN:HE22	1:m:358:VAL:HG22	1.34	0.92
1:f:340:GLN:HE22	1:f:358:VAL:HG22	1.34	0.92
1:l:340:GLN:HE22	1:l:358:VAL:HG22	1.34	0.92
1:x:340:GLN:HE22	1:x:358:VAL:HG22	1.34	0.92
1:H:340:GLN:HE22	1:H:358:VAL:HG22	1.34	0.91
1:Z:340:GLN:HE22	1:Z:358:VAL:HG22	1.34	0.91
1:p:340:GLN:HE22	1:p:358:VAL:HG22	1.34	0.91
1:u:340:GLN:HE22	1:u:358:VAL:HG22	1.34	0.91
1:R:340:GLN:HE22	1:R:358:VAL:HG22	1.34	0.91
1:F:340:GLN:HE22	1:F:358:VAL:HG22	1.34	0.91
1:J:340:GLN:HE22	1:J:358:VAL:HG22	1.34	0.91
1:3:340:GLN:HE22	1:3:358:VAL:HG22	1.34	0.91
1:d:340:GLN:HE22	1:d:358:VAL:HG22	1.34	0.91
1:A:340:GLN:HE22	1:A:358:VAL:HG22	1.34	0.91
1:C:340:GLN:HE22	1:C:358:VAL:HG22	1.34	0.91
1:o:340:GLN:HE22	1:o:358:VAL:HG22	1.34	0.91
1:7:340:GLN:HE22	1:7:358:VAL:HG22	1.34	0.91
1:2:340:GLN:HE22	1:2:358:VAL:HG22	1.34	0.91
1:N:340:GLN:HE22	1:N:358:VAL:HG22	1.34	0.91
1:s:340:GLN:HE22	1:s:358:VAL:HG22	1.34	0.91
1:6:340:GLN:HE22	1:6:358:VAL:HG22	1.34	0.91
1:Q:340:GLN:HE22	1:Q:358:VAL:HG22	1.34	0.91
1:5:340:GLN:HE22	1:5:358:VAL:HG22	1.34	0.90
1:j:340:GLN:HE22	1:j:358:VAL:HG22	1.34	0.90
1:B:340:GLN:HE22	1:B:358:VAL:HG22	1.34	0.90
1:O:340:GLN:HE22	1:O:358:VAL:HG22	1.34	0.90
1:E:340:GLN:HE22	1:E:358:VAL:HG22	1.34	0.90
1:k:340:GLN:HE22	1:k:358:VAL:HG22	1.34	0.90
1:I:340:GLN:HE22	1:I:358:VAL:HG22	1.34	0.90
1:8:340:GLN:HE22	1:8:358:VAL:HG22	1.34	0.90
1:r:340:GLN:HE22	1:r:358:VAL:HG22	1.34	0.90
1:n:340:GLN:HE22	1:n:358:VAL:HG22	1.34	0.90
1:D:340:GLN:HE22	1:D:358:VAL:HG22	1.34	0.90
1:b:340:GLN:HE22	1:b:358:VAL:HG22	1.34	0.89
1:z:340:GLN:HE22	1:z:358:VAL:HG22	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:340:GLN:HE22	1:X:358:VAL:HG22	1.34	0.89
1:y:340:GLN:HE22	1:y:358:VAL:HG22	1.34	0.88
1:P:340:GLN:HE22	1:P:358:VAL:HG22	1.34	0.88
1:H:475:GLU:OE1	1:Y:277:ARG:NH1	2.17	0.77
1:q:375:ARG:NH1	1:q:396:THR:OG1	2.18	0.77
1:m:407:TRP:HD1	1:m:410:ASN:H	1.34	0.76
1:E:407:TRP:HD1	1:E:410:ASN:H	1.34	0.76
1:F:407:TRP:HD1	1:F:410:ASN:H	1.34	0.76
1:G:375:ARG:NH1	1:G:396:THR:OG1	2.19	0.76
1:L:407:TRP:HD1	1:L:410:ASN:H	1.34	0.76
1:X:375:ARG:NH1	1:X:396:THR:OG1	2.18	0.76
1:a:375:ARG:NH1	1:a:396:THR:OG1	2.18	0.76
1:b:375:ARG:NH1	1:b:396:THR:OG1	2.18	0.76
1:E:375:ARG:NH1	1:E:396:THR:OG1	2.18	0.76
1:V:375:ARG:NH1	1:V:396:THR:OG1	2.18	0.76
1:n:375:ARG:NH1	1:n:396:THR:OG1	2.18	0.76
1:n:407:TRP:HD1	1:n:410:ASN:H	1.34	0.76
1:p:407:TRP:HD1	1:p:410:ASN:H	1.34	0.76
1:F:375:ARG:NH1	1:F:396:THR:OG1	2.18	0.76
1:L:375:ARG:NH1	1:L:396:THR:OG1	2.18	0.76
1:6:375:ARG:NH1	1:6:396:THR:OG1	2.18	0.76
1:i:277:ARG:NH1	1:j:475:GLU:OE1	2.19	0.76
1:m:375:ARG:NH1	1:m:396:THR:OG1	2.18	0.76
1:p:375:ARG:NH1	1:p:396:THR:OG1	2.18	0.76
1:w:375:ARG:NH1	1:w:396:THR:OG1	2.18	0.76
1:x:375:ARG:NH1	1:x:396:THR:OG1	2.18	0.76
1:C:475:GLU:OE1	1:M:277:ARG:NH1	2.19	0.76
1:Q:375:ARG:NH1	1:Q:396:THR:OG1	2.18	0.76
1:S:375:ARG:NH1	1:S:396:THR:OG1	2.18	0.76
1:T:407:TRP:HD1	1:T:410:ASN:H	1.34	0.76
1:4:375:ARG:NH1	1:4:396:THR:OG1	2.18	0.76
1:g:407:TRP:HD1	1:g:410:ASN:H	1.34	0.76
1:l:375:ARG:NH1	1:l:396:THR:OG1	2.18	0.76
1:v:375:ARG:NH1	1:v:396:THR:OG1	2.18	0.76
1:y:375:ARG:NH1	1:y:396:THR:OG1	2.18	0.76
1:A:375:ARG:NH1	1:A:396:THR:OG1	2.18	0.76
1:C:277:ARG:NH1	1:2:475:GLU:OE1	2.19	0.76
1:J:407:TRP:HD1	1:J:410:ASN:H	1.34	0.76
1:K:375:ARG:NH1	1:K:396:THR:OG1	2.18	0.76
1:K:407:TRP:HD1	1:K:410:ASN:H	1.34	0.76
1:P:375:ARG:NH1	1:P:396:THR:OG1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:375:ARG:NH1	1:T:396:THR:OG1	2.18	0.76
1:5:375:ARG:NH1	1:5:396:THR:OG1	2.18	0.76
1:l:407:TRP:HD1	1:l:410:ASN:H	1.34	0.76
1:n:475:GLU:OE1	1:p:277:ARG:NH1	2.19	0.76
1:o:375:ARG:NH1	1:o:396:THR:OG1	2.18	0.76
1:x:407:TRP:HD1	1:x:410:ASN:H	1.34	0.76
1:D:375:ARG:NH1	1:D:396:THR:OG1	2.18	0.76
1:D:407:TRP:HD1	1:D:410:ASN:H	1.34	0.76
1:J:375:ARG:NH1	1:J:396:THR:OG1	2.18	0.76
1:Y:375:ARG:NH1	1:Y:396:THR:OG1	2.18	0.76
1:3:475:GLU:OE1	1:j:277:ARG:NH1	2.19	0.76
1:c:375:ARG:NH1	1:c:396:THR:OG1	2.18	0.76
1:z:407:TRP:HD1	1:z:410:ASN:H	1.34	0.76
1:B:313:ARG:NH1	1:B:325:VAL:O	2.19	0.76
1:E:475:GLU:OE1	1:F:277:ARG:NH1	2.19	0.76
1:g:375:ARG:NH1	1:g:396:THR:OG1	2.18	0.76
1:s:375:ARG:NH1	1:s:396:THR:OG1	2.18	0.76
1:z:375:ARG:NH1	1:z:396:THR:OG1	2.18	0.76
1:K:313:ARG:NH1	1:K:325:VAL:O	2.19	0.76
1:K:475:GLU:OE1	1:8:277:ARG:NH1	2.19	0.76
1:O:407:TRP:HD1	1:O:410:ASN:H	1.34	0.76
1:S:277:ARG:NH1	1:U:475:GLU:OE1	2.19	0.76
1:S:407:TRP:HD1	1:S:410:ASN:H	1.34	0.76
1:X:475:GLU:OE1	1:5:277:ARG:NH1	2.19	0.76
1:6:277:ARG:NH1	1:b:475:GLU:OE1	2.19	0.76
1:g:313:ARG:NH1	1:g:325:VAL:O	2.19	0.76
1:k:313:ARG:NH1	1:k:325:VAL:O	2.19	0.76
1:I:313:ARG:NH1	1:I:325:VAL:O	2.19	0.76
1:Y:313:ARG:NH1	1:Y:325:VAL:O	2.19	0.76
1:c:277:ARG:NH1	1:d:475:GLU:OE1	2.19	0.76
1:c:313:ARG:NH1	1:c:325:VAL:O	2.19	0.76
1:d:313:ARG:NH1	1:d:325:VAL:O	2.19	0.76
1:q:407:TRP:HD1	1:q:410:ASN:H	1.34	0.76
1:r:313:ARG:NH1	1:r:325:VAL:O	2.19	0.76
1:t:475:GLU:OE1	1:v:277:ARG:NH1	2.19	0.76
1:v:407:TRP:HD1	1:v:410:ASN:H	1.34	0.76
1:8:407:TRP:HD1	1:8:410:ASN:H	1.34	0.76
1:B:375:ARG:NH1	1:B:396:THR:OG1	2.19	0.75
1:C:313:ARG:NH1	1:C:325:VAL:O	2.19	0.75
1:F:313:ARG:NH1	1:F:325:VAL:O	2.19	0.75
1:G:407:TRP:HD1	1:G:410:ASN:H	1.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:ARG:NH1	1:H:325:VAL:O	2.19	0.75
1:Q:313:ARG:NH1	1:Q:325:VAL:O	2.19	0.75
1:c:407:TRP:HD1	1:c:410:ASN:H	1.34	0.75
1:i:313:ARG:NH1	1:i:325:VAL:O	2.19	0.75
1:t:375:ARG:NH1	1:t:396:THR:OG1	2.18	0.75
1:v:313:ARG:NH1	1:v:325:VAL:O	2.19	0.75
1:E:313:ARG:NH1	1:E:325:VAL:O	2.19	0.75
1:M:313:ARG:NH1	1:M:325:VAL:O	2.19	0.75
1:S:313:ARG:NH1	1:S:325:VAL:O	2.19	0.75
1:U:375:ARG:NH1	1:U:396:THR:OG1	2.18	0.75
1:Y:407:TRP:HD1	1:Y:410:ASN:H	1.34	0.75
1:3:277:ARG:NH1	1:i:475:GLU:OE1	2.19	0.75
1:4:277:ARG:NH1	1:f:475:GLU:OE1	2.19	0.75
1:d:375:ARG:NH1	1:d:396:THR:OG1	2.18	0.75
1:j:313:ARG:NH1	1:j:325:VAL:O	2.19	0.75
1:n:313:ARG:NH1	1:n:325:VAL:O	2.19	0.75
1:o:313:ARG:NH1	1:o:325:VAL:O	2.19	0.75
1:t:313:ARG:NH1	1:t:325:VAL:O	2.19	0.75
1:8:313:ARG:NH1	1:8:325:VAL:O	2.19	0.75
1:A:277:ARG:NH1	1:G:475:GLU:OE1	2.18	0.75
1:G:277:ARG:NH1	1:I:475:GLU:OE1	2.19	0.75
1:M:475:GLU:OE1	1:2:277:ARG:NH1	2.19	0.75
1:O:277:ARG:NH1	1:g:475:GLU:OE1	2.19	0.75
1:O:313:ARG:NH1	1:O:325:VAL:O	2.19	0.75
1:Q:407:TRP:HD1	1:Q:410:ASN:H	1.34	0.75
1:U:313:ARG:NH1	1:U:325:VAL:O	2.19	0.75
1:k:375:ARG:NH1	1:k:396:THR:OG1	2.19	0.75
1:o:407:TRP:HD1	1:o:410:ASN:H	1.34	0.75
1:p:313:ARG:NH1	1:p:325:VAL:O	2.19	0.75
1:q:277:ARG:NH1	1:r:475:GLU:OE1	2.19	0.75
1:H:375:ARG:NH1	1:H:396:THR:OG1	2.18	0.75
1:I:375:ARG:NH1	1:I:396:THR:OG1	2.18	0.75
1:M:375:ARG:NH1	1:M:396:THR:OG1	2.18	0.75
1:O:375:ARG:NH1	1:O:396:THR:OG1	2.18	0.75
1:g:277:ARG:NH1	1:h:475:GLU:OE1	2.19	0.75
1:i:375:ARG:NH1	1:i:396:THR:OG1	2.18	0.75
1:r:375:ARG:NH1	1:r:396:THR:OG1	2.18	0.75
1:R:313:ARG:NH1	1:R:325:VAL:O	2.19	0.75
1:W:375:ARG:NH1	1:W:396:THR:OG1	2.18	0.75
1:f:375:ARG:NH1	1:f:396:THR:OG1	2.18	0.75
1:B:277:ARG:NH1	1:J:475:GLU:OE1	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:313:ARG:NH1	1:G:325:VAL:O	2.19	0.75
1:R:375:ARG:NH1	1:R:396:THR:OG1	2.18	0.75
1:Z:375:ARG:NH1	1:Z:396:THR:OG1	2.18	0.75
1:Z:475:GLU:OE1	1:w:277:ARG:NH1	2.19	0.75
1:h:375:ARG:NH1	1:h:396:THR:OG1	2.18	0.75
1:k:277:ARG:NH1	1:l:475:GLU:OE1	2.19	0.75
1:u:313:ARG:NH1	1:u:325:VAL:O	2.19	0.75
1:u:375:ARG:NH1	1:u:396:THR:OG1	2.18	0.75
1:8:375:ARG:NH1	1:8:396:THR:OG1	2.18	0.75
1:D:313:ARG:NH1	1:D:325:VAL:O	2.19	0.75
1:1:375:ARG:NH1	1:1:396:THR:OG1	2.18	0.75
1:2:313:ARG:NH1	1:2:325:VAL:O	2.19	0.75
1:3:407:TRP:HD1	1:3:410:ASN:H	1.34	0.75
1:e:375:ARG:NH1	1:e:396:THR:OG1	2.18	0.75
1:j:375:ARG:NH1	1:j:396:THR:OG1	2.18	0.75
1:q:313:ARG:NH1	1:q:325:VAL:O	2.19	0.75
1:z:313:ARG:NH1	1:z:325:VAL:O	2.19	0.75
1:A:313:ARG:NH1	1:A:325:VAL:O	2.19	0.75
1:g:378:TYR:HE1	1:g:384:GLN:H	1.35	0.75
1:q:475:GLU:OE1	1:s:277:ARG:NH1	2.19	0.75
1:A:407:TRP:HD1	1:A:410:ASN:H	1.34	0.75
1:C:375:ARG:NH1	1:C:396:THR:OG1	2.18	0.75
1:1:277:ARG:NH1	1:8:475:GLU:OE1	2.19	0.75
1:2:378:TYR:HE1	1:2:384:GLN:H	1.35	0.75
1:3:313:ARG:NH1	1:3:325:VAL:O	2.19	0.75
1:3:375:ARG:NH1	1:3:396:THR:OG1	2.18	0.75
1:3:378:TYR:HE1	1:3:384:GLN:H	1.35	0.75
1:q:378:TYR:HE1	1:q:384:GLN:H	1.35	0.75
1:s:313:ARG:NH1	1:s:325:VAL:O	2.19	0.75
1:E:277:ARG:NH1	1:Q:475:GLU:OE1	2.19	0.74
1:K:378:TYR:HE1	1:K:384:GLN:H	1.35	0.74
1:N:277:ARG:NH1	1:P:475:GLU:OE1	2.19	0.74
1:N:313:ARG:NH1	1:N:325:VAL:O	2.19	0.74
1:N:407:TRP:HD1	1:N:410:ASN:H	1.34	0.74
1:O:475:GLU:OE1	1:h:277:ARG:NH1	2.19	0.74
1:X:313:ARG:NH1	1:X:325:VAL:O	2.19	0.74
1:X:407:TRP:HD1	1:X:410:ASN:H	1.34	0.74
1:2:375:ARG:NH1	1:2:396:THR:OG1	2.18	0.74
1:b:313:ARG:NH1	1:b:325:VAL:O	2.19	0.74
1:n:378:TYR:HE1	1:n:384:GLN:H	1.35	0.74
1:s:407:TRP:HD1	1:s:410:ASN:H	1.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:277:ARG:NH1	1:u:475:GLU:OE1	2.19	0.74
1:7:313:ARG:NH1	1:7:325:VAL:O	2.19	0.74
1:E:378:TYR:HE1	1:E:384:GLN:H	1.36	0.74
1:G:378:TYR:HE1	1:G:384:GLN:H	1.36	0.74
1:L:313:ARG:NH1	1:L:325:VAL:O	2.19	0.74
1:R:378:TYR:HE1	1:R:384:GLN:H	1.35	0.74
1:U:378:TYR:HE1	1:U:384:GLN:H	1.35	0.74
1:V:378:TYR:HE1	1:V:384:GLN:H	1.35	0.74
1:Y:378:TYR:HE1	1:Y:384:GLN:H	1.35	0.74
1:Z:277:ARG:NH1	1:x:475:GLU:OE1	2.19	0.74
1:2:407:TRP:HD1	1:2:410:ASN:H	1.34	0.74
1:c:378:TYR:HE1	1:c:384:GLN:H	1.35	0.74
1:t:407:TRP:HD1	1:t:410:ASN:H	1.34	0.74
1:u:378:TYR:HE1	1:u:384:GLN:H	1.35	0.74
1:7:407:TRP:HD1	1:7:410:ASN:H	1.34	0.74
1:B:457:HIS:HD2	1:B:458:PRO:HD2	1.53	0.74
1:F:475:GLU:OE1	1:Q:277:ARG:NH1	2.19	0.74
1:5:313:ARG:NH1	1:5:325:VAL:O	2.19	0.74
1:6:313:ARG:NH1	1:6:325:VAL:O	2.19	0.74
1:a:378:TYR:HE1	1:a:384:GLN:H	1.35	0.74
1:k:457:HIS:HD2	1:k:458:PRO:HD2	1.53	0.74
1:m:313:ARG:NH1	1:m:325:VAL:O	2.19	0.74
1:t:378:TYR:HE1	1:t:384:GLN:H	1.35	0.74
1:y:475:GLU:OE1	1:7:277:ARG:NH1	2.19	0.74
1:B:407:TRP:HD1	1:B:410:ASN:H	1.34	0.74
1:C:378:TYR:HE1	1:C:384:GLN:H	1.35	0.74
1:D:475:GLU:OE1	1:P:277:ARG:NH1	2.20	0.74
1:J:277:ARG:NH1	1:L:475:GLU:OE1	2.19	0.74
1:N:375:ARG:NH1	1:N:396:THR:OG1	2.18	0.74
1:R:475:GLU:OE1	1:U:277:ARG:NH1	2.19	0.74
1:T:475:GLU:OE1	1:f:277:ARG:NH1	2.19	0.74
1:U:407:TRP:HD1	1:U:410:ASN:H	1.34	0.74
1:1:313:ARG:NH1	1:1:325:VAL:O	2.19	0.74
1:b:407:TRP:HD1	1:b:410:ASN:H	1.34	0.74
1:h:313:ARG:NH1	1:h:325:VAL:O	2.19	0.74
1:k:378:TYR:HE1	1:k:384:GLN:H	1.35	0.74
1:l:277:ARG:NH1	1:m:475:GLU:OE1	2.19	0.74
1:n:277:ARG:NH1	1:o:475:GLU:OE1	2.19	0.74
1:y:277:ARG:NH1	1:z:475:GLU:OE1	2.19	0.74
1:7:375:ARG:NH1	1:7:396:THR:OG1	2.18	0.74
1:B:378:TYR:HE1	1:B:384:GLN:H	1.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:475:GLU:OE1	1:L:277:ARG:NH1	2.19	0.74
1:D:277:ARG:NH1	1:N:475:GLU:OE1	2.20	0.74
1:H:277:ARG:NH1	1:W:475:GLU:OE1	2.19	0.74
1:K:277:ARG:NH1	1:1:475:GLU:OE1	2.20	0.74
1:4:457:HIS:HD2	1:4:458:PRO:HD2	1.53	0.74
1:w:457:HIS:HD2	1:w:458:PRO:HD2	1.53	0.74
1:A:475:GLU:OE1	1:I:277:ARG:NH1	2.19	0.74
1:C:457:HIS:HD2	1:C:458:PRO:HD2	1.53	0.74
1:P:313:ARG:NH1	1:P:325:VAL:O	2.19	0.74
1:R:457:HIS:HD2	1:R:458:PRO:HD2	1.53	0.74
1:Y:552:ASN:HD22	1:x:241:GLY:H	1.35	0.74
1:f:313:ARG:NH1	1:f:325:VAL:O	2.19	0.74
1:j:378:TYR:HE1	1:j:384:GLN:H	1.35	0.74
1:k:407:TRP:HD1	1:k:410:ASN:H	1.34	0.74
1:o:277:ARG:NH1	1:p:475:GLU:OE1	2.19	0.74
1:r:457:HIS:HD2	1:r:458:PRO:HD2	1.53	0.74
1:y:313:ARG:NH1	1:y:325:VAL:O	2.19	0.74
1:I:457:HIS:HD2	1:I:458:PRO:HD2	1.53	0.74
1:J:457:HIS:HD2	1:J:458:PRO:HD2	1.53	0.74
1:Z:313:ARG:NH1	1:Z:325:VAL:O	2.19	0.74
1:c:475:GLU:OE1	1:e:277:ARG:NH1	2.20	0.74
1:k:475:GLU:OE1	1:m:277:ARG:NH1	2.19	0.74
1:l:457:HIS:HD2	1:l:458:PRO:HD2	1.53	0.74
1:r:277:ARG:NH1	1:s:475:GLU:OE1	2.19	0.74
1:u:457:HIS:HD2	1:u:458:PRO:HD2	1.53	0.74
1:z:277:ARG:NH1	1:7:475:GLU:OE1	2.20	0.74
1:D:452:LEU:HD13	1:N:356:PRO:HB2	1.70	0.74
1:K:452:LEU:HD13	1:1:356:PRO:HB2	1.70	0.74
1:M:457:HIS:HD2	1:M:458:PRO:HD2	1.53	0.74
1:V:475:GLU:OE1	1:X:277:ARG:NH1	2.19	0.74
1:6:364:GLN:HB2	1:6:407:TRP:HZ3	1.53	0.74
1:j:457:HIS:HD2	1:j:458:PRO:HD2	1.53	0.74
1:l:313:ARG:NH1	1:l:325:VAL:O	2.19	0.74
1:l:364:GLN:HB2	1:l:407:TRP:HZ3	1.53	0.74
1:v:378:TYR:HE1	1:v:384:GLN:H	1.35	0.74
1:8:457:HIS:HD2	1:8:458:PRO:HD2	1.53	0.74
1:J:313:ARG:NH1	1:J:325:VAL:O	2.19	0.74
1:J:364:GLN:HB2	1:J:407:TRP:HZ3	1.53	0.74
1:V:313:ARG:NH1	1:V:325:VAL:O	2.19	0.74
1:V:364:GLN:HB2	1:V:407:TRP:HZ3	1.53	0.74
1:W:452:LEU:HD13	1:Y:356:PRO:HB2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:364:GLN:HB2	1:5:407:TRP:HZ3	1.53	0.74
1:c:356:PRO:HB2	1:e:452:LEU:HD13	1.70	0.74
1:f:378:TYR:HE1	1:f:384:GLN:H	1.35	0.74
1:w:313:ARG:NH1	1:w:325:VAL:O	2.19	0.74
1:z:452:LEU:HD13	1:7:356:PRO:HB2	1.70	0.74
1:B:148:PHE:HD1	1:B:149:ASN:HD22	1.36	0.74
1:H:407:TRP:HD1	1:H:410:ASN:H	1.34	0.74
1:M:407:TRP:HD1	1:M:410:ASN:H	1.34	0.74
1:P:407:TRP:HD1	1:P:410:ASN:H	1.34	0.74
1:T:313:ARG:NH1	1:T:325:VAL:O	2.19	0.74
1:W:313:ARG:NH1	1:W:325:VAL:O	2.19	0.74
1:2:148:PHE:HD1	1:2:149:ASN:HD22	1.36	0.74
1:3:148:PHE:HD1	1:3:149:ASN:HD22	1.36	0.74
1:4:364:GLN:HB2	1:4:407:TRP:HZ3	1.53	0.74
1:a:475:GLU:OE1	1:b:277:ARG:NH1	2.19	0.74
1:d:277:ARG:NH1	1:e:475:GLU:OE1	2.20	0.74
1:e:313:ARG:NH1	1:e:325:VAL:O	2.19	0.74
1:i:407:TRP:HD1	1:i:410:ASN:H	1.34	0.74
1:i:457:HIS:HD2	1:i:458:PRO:HD2	1.53	0.74
1:k:148:PHE:HD1	1:k:149:ASN:HD22	1.36	0.74
1:O:457:HIS:HD2	1:O:458:PRO:HD2	1.53	0.73
1:S:148:PHE:HD1	1:S:149:ASN:HD22	1.36	0.73
1:4:313:ARG:NH1	1:4:325:VAL:O	2.19	0.73
1:a:313:ARG:NH1	1:a:325:VAL:O	2.19	0.73
1:a:364:GLN:HB2	1:a:407:TRP:HZ3	1.53	0.73
1:s:457:HIS:HD2	1:s:458:PRO:HD2	1.53	0.73
1:v:148:PHE:HD1	1:v:149:ASN:HD22	1.36	0.73
1:w:364:GLN:HB2	1:w:407:TRP:HZ3	1.53	0.73
1:x:313:ARG:NH1	1:x:325:VAL:O	2.19	0.73
1:A:457:HIS:HD2	1:A:458:PRO:HD2	1.53	0.73
1:O:148:PHE:HD1	1:O:149:ASN:HD22	1.36	0.73
1:R:148:PHE:HD1	1:R:149:ASN:HD22	1.36	0.73
1:S:378:TYR:HE1	1:S:384:GLN:H	1.35	0.73
1:T:378:TYR:HE1	1:T:384:GLN:H	1.35	0.73
1:W:277:ARG:NH1	1:Y:475:GLU:OE1	2.20	0.73
1:W:457:HIS:HD2	1:W:458:PRO:HD2	1.53	0.73
1:Z:378:TYR:HE1	1:Z:384:GLN:H	1.36	0.73
1:d:364:GLN:HB2	1:d:407:TRP:HZ3	1.53	0.73
1:e:407:TRP:HD1	1:e:410:ASN:H	1.34	0.73
1:e:457:HIS:HD2	1:e:458:PRO:HD2	1.53	0.73
1:y:407:TRP:HD1	1:y:410:ASN:H	1.34	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:378:TYR:HE1	1:D:384:GLN:H	1.35	0.73
1:H:364:GLN:HB2	1:H:407:TRP:HZ3	1.53	0.73
1:M:148:PHE:HD1	1:M:149:ASN:HD22	1.36	0.73
1:M:378:TYR:HE1	1:M:384:GLN:H	1.35	0.73
1:T:457:HIS:HD2	1:T:458:PRO:HD2	1.53	0.73
1:W:407:TRP:HD1	1:W:410:ASN:H	1.34	0.73
1:Z:364:GLN:HB2	1:Z:407:TRP:HZ3	1.53	0.73
1:1:457:HIS:HD2	1:1:458:PRO:HD2	1.53	0.73
1:5:407:TRP:HD1	1:5:410:ASN:H	1.34	0.73
1:d:407:TRP:HD1	1:d:410:ASN:H	1.34	0.73
1:f:364:GLN:HB2	1:f:407:TRP:HZ3	1.53	0.73
1:u:148:PHE:HD1	1:u:149:ASN:HD22	1.36	0.73
1:8:148:PHE:HD1	1:8:149:ASN:HD22	1.36	0.73
1:F:378:TYR:HE1	1:F:384:GLN:H	1.35	0.73
1:G:457:HIS:HD2	1:G:458:PRO:HD2	1.53	0.73
1:H:148:PHE:HD1	1:H:149:ASN:HD22	1.36	0.73
1:Q:378:TYR:HE1	1:Q:384:GLN:H	1.35	0.73
1:U:457:HIS:HD2	1:U:458:PRO:HD2	1.53	0.73
1:V:148:PHE:HD1	1:V:149:ASN:HD22	1.36	0.73
1:V:457:HIS:HD2	1:V:458:PRO:HD2	1.53	0.73
1:Y:457:HIS:HD2	1:Y:458:PRO:HD2	1.53	0.73
1:2:364:GLN:HB2	1:2:407:TRP:HZ3	1.53	0.73
1:i:148:PHE:HD1	1:i:149:ASN:HD22	1.36	0.73
1:n:457:HIS:HD2	1:n:458:PRO:HD2	1.53	0.73
1:p:378:TYR:HE1	1:p:384:GLN:H	1.35	0.73
1:x:378:TYR:HE1	1:x:384:GLN:H	1.35	0.73
1:x:457:HIS:HD2	1:x:458:PRO:HD2	1.53	0.73
1:X:457:HIS:HD2	1:X:458:PRO:HD2	1.53	0.73
1:Z:407:TRP:HD1	1:Z:410:ASN:H	1.34	0.73
1:6:407:TRP:HD1	1:6:410:ASN:H	1.34	0.73
1:a:148:PHE:HD1	1:a:149:ASN:HD22	1.36	0.73
1:a:407:TRP:HD1	1:a:410:ASN:H	1.34	0.73
1:f:407:TRP:HD1	1:f:410:ASN:H	1.34	0.73
1:h:457:HIS:HD2	1:h:458:PRO:HD2	1.53	0.73
1:o:378:TYR:HE1	1:o:384:GLN:H	1.35	0.73
1:s:364:GLN:HB2	1:s:407:TRP:HZ3	1.53	0.73
1:t:457:HIS:HD2	1:t:458:PRO:HD2	1.53	0.73
1:z:378:TYR:HE1	1:z:384:GLN:H	1.35	0.73
1:8:364:GLN:HB2	1:8:407:TRP:HZ3	1.53	0.73
1:A:364:GLN:HB2	1:A:407:TRP:HZ3	1.53	0.73
1:N:364:GLN:HB2	1:N:407:TRP:HZ3	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:364:GLN:HB2	1:O:407:TRP:HZ3	1.53	0.73
1:R:407:TRP:HD1	1:R:410:ASN:H	1.34	0.73
1:V:407:TRP:HD1	1:V:410:ASN:H	1.34	0.73
1:3:364:GLN:HB2	1:3:407:TRP:HZ3	1.53	0.73
1:c:457:HIS:HD2	1:c:458:PRO:HD2	1.53	0.73
1:d:148:PHE:HD1	1:d:149:ASN:HD22	1.36	0.73
1:g:457:HIS:HD2	1:g:458:PRO:HD2	1.53	0.73
1:i:378:TYR:HE1	1:i:384:GLN:H	1.35	0.73
1:j:407:TRP:HD1	1:j:410:ASN:H	1.34	0.73
1:E:457:HIS:HD2	1:E:458:PRO:HD2	1.53	0.73
1:G:364:GLN:HB2	1:G:407:TRP:HZ3	1.53	0.73
1:P:457:HIS:HD2	1:P:458:PRO:HD2	1.53	0.73
1:X:364:GLN:HB2	1:X:407:TRP:HZ3	1.53	0.73
1:2:457:HIS:HD2	1:2:458:PRO:HD2	1.53	0.73
1:a:457:HIS:HD2	1:a:458:PRO:HD2	1.53	0.73
1:b:364:GLN:HB2	1:b:407:TRP:HZ3	1.53	0.73
1:b:457:HIS:HD2	1:b:458:PRO:HD2	1.53	0.73
1:f:148:PHE:HD1	1:f:149:ASN:HD22	1.36	0.73
1:q:364:GLN:HB2	1:q:407:TRP:HZ3	1.53	0.73
1:q:457:HIS:HD2	1:q:458:PRO:HD2	1.53	0.73
1:7:364:GLN:HB2	1:7:407:TRP:HZ3	1.53	0.73
1:B:364:GLN:HB2	1:B:407:TRP:HZ3	1.53	0.73
1:H:452:LEU:HD13	1:W:356:PRO:HB2	1.70	0.73
1:L:378:TYR:HE1	1:L:384:GLN:H	1.35	0.73
1:P:148:PHE:HD1	1:P:149:ASN:HD22	1.36	0.73
1:Q:364:GLN:HB2	1:Q:407:TRP:HZ3	1.53	0.73
1:V:277:ARG:NH1	1:5:475:GLU:OE1	2.19	0.73
1:Y:148:PHE:HD1	1:Y:149:ASN:HD22	1.36	0.73
1:3:457:HIS:HD2	1:3:458:PRO:HD2	1.53	0.73
1:k:364:GLN:HB2	1:k:407:TRP:HZ3	1.53	0.73
1:u:407:TRP:HD1	1:u:410:ASN:H	1.34	0.73
1:v:364:GLN:HB2	1:v:407:TRP:HZ3	1.53	0.73
1:D:356:PRO:HB2	1:P:452:LEU:HD13	1.71	0.73
1:K:241:GLY:H	1:7:552:ASN:HD22	1.37	0.73
1:M:241:GLY:H	1:3:552:ASN:HD22	1.37	0.73
1:U:364:GLN:HB2	1:U:407:TRP:HZ3	1.53	0.73
1:V:241:GLY:H	1:W:552:ASN:HD22	1.37	0.73
1:Z:148:PHE:HD1	1:Z:149:ASN:HD22	1.36	0.73
1:c:148:PHE:HD1	1:c:149:ASN:HD22	1.36	0.73
1:o:364:GLN:HB2	1:o:407:TRP:HZ3	1.53	0.73
1:p:148:PHE:HD1	1:p:149:ASN:HD22	1.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:364:GLN:HB2	1:t:407:TRP:HZ3	1.53	0.73
1:y:452:LEU:HD13	1:z:356:PRO:HB2	1.71	0.73
1:C:407:TRP:HD1	1:C:410:ASN:H	1.34	0.73
1:D:457:HIS:HD2	1:D:458:PRO:HD2	1.53	0.73
1:K:457:HIS:HD2	1:K:458:PRO:HD2	1.53	0.73
1:S:364:GLN:HB2	1:S:407:TRP:HZ3	1.53	0.73
1:T:277:ARG:NH1	1:4:475:GLU:OE1	2.19	0.73
1:X:378:TYR:HE1	1:X:384:GLN:H	1.35	0.73
1:5:148:PHE:HD1	1:5:149:ASN:HD22	1.36	0.73
1:5:457:HIS:HD2	1:5:458:PRO:HD2	1.53	0.73
1:6:475:GLU:OE1	1:a:277:ARG:NH1	2.19	0.73
1:h:407:TRP:HD1	1:h:410:ASN:H	1.34	0.73
1:w:407:TRP:HD1	1:w:410:ASN:H	1.33	0.73
1:y:457:HIS:HD2	1:y:458:PRO:HD2	1.53	0.73
1:P:364:GLN:HB2	1:P:407:TRP:HZ3	1.53	0.72
1:Q:148:PHE:HD1	1:Q:149:ASN:HD22	1.36	0.72
1:R:277:ARG:NH1	1:S:475:GLU:OE1	2.19	0.72
1:2:552:ASN:HD22	1:i:241:GLY:H	1.37	0.72
1:6:457:HIS:HD2	1:6:458:PRO:HD2	1.53	0.72
1:b:378:TYR:HE1	1:b:384:GLN:H	1.35	0.72
1:j:364:GLN:HB2	1:j:407:TRP:HZ3	1.53	0.72
1:m:378:TYR:HE1	1:m:384:GLN:H	1.35	0.72
1:y:148:PHE:HD1	1:y:149:ASN:HD22	1.36	0.72
1:A:378:TYR:HE1	1:A:384:GLN:H	1.35	0.72
1:C:364:GLN:HB2	1:C:407:TRP:HZ3	1.53	0.72
1:C:452:LEU:HD13	1:2:356:PRO:HB2	1.72	0.72
1:F:148:PHE:HD1	1:F:149:ASN:HD22	1.36	0.72
1:I:552:ASN:HD22	1:J:241:GLY:H	1.37	0.72
1:L:148:PHE:HD1	1:L:149:ASN:HD22	1.36	0.72
1:S:452:LEU:HD13	1:U:356:PRO:HB2	1.71	0.72
1:T:241:GLY:H	1:c:552:ASN:HD22	1.37	0.72
1:1:378:TYR:HE1	1:1:384:GLN:H	1.35	0.72
1:6:378:TYR:HE1	1:6:384:GLN:H	1.35	0.72
1:e:364:GLN:HB2	1:e:407:TRP:HZ3	1.53	0.72
1:h:378:TYR:HE1	1:h:384:GLN:H	1.35	0.72
1:m:148:PHE:HD1	1:m:149:ASN:HD22	1.36	0.72
1:t:356:PRO:HB2	1:v:452:LEU:HD13	1.71	0.72
1:w:475:GLU:OE1	1:x:277:ARG:NH1	2.19	0.72
1:z:457:HIS:HD2	1:z:458:PRO:HD2	1.53	0.72
1:B:452:LEU:HD13	1:J:356:PRO:HB2	1.71	0.72
1:E:452:LEU:HD13	1:Q:356:PRO:HB2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:241:GLY:H	1:R:552:ASN:HD22	1.38	0.72
1:I:407:TRP:HD1	1:I:410:ASN:H	1.34	0.72
1:S:457:HIS:HD2	1:S:458:PRO:HD2	1.53	0.72
1:5:378:TYR:HE1	1:5:384:GLN:H	1.35	0.72
1:6:148:PHE:HD1	1:6:149:ASN:HD22	1.36	0.72
1:c:452:LEU:HD13	1:d:356:PRO:HB2	1.71	0.72
1:g:452:LEU:HD13	1:h:356:PRO:HB2	1.72	0.72
1:g:552:ASN:HD22	1:m:241:GLY:H	1.37	0.72
1:k:452:LEU:HD13	1:l:356:PRO:HB2	1.71	0.72
1:n:364:GLN:HB2	1:n:407:TRP:HZ3	1.53	0.72
1:p:241:GLY:H	1:u:552:ASN:HD22	1.38	0.72
1:p:457:HIS:HD2	1:p:458:PRO:HD2	1.53	0.72
1:s:378:TYR:HE1	1:s:384:GLN:H	1.35	0.72
1:u:277:ARG:NH1	1:v:475:GLU:OE1	2.19	0.72
1:A:452:LEU:HD13	1:G:356:PRO:HB2	1.72	0.72
1:E:364:GLN:HB2	1:E:407:TRP:HZ3	1.53	0.72
1:1:407:TRP:HD1	1:1:410:ASN:H	1.34	0.72
1:3:356:PRO:HB2	1:j:452:LEU:HD13	1.72	0.72
1:c:364:GLN:HB2	1:c:407:TRP:HZ3	1.53	0.72
1:n:452:LEU:HD13	1:o:356:PRO:HB2	1.71	0.72
1:r:364:GLN:HB2	1:r:407:TRP:HZ3	1.53	0.72
1:v:457:HIS:HD2	1:v:458:PRO:HD2	1.53	0.72
1:B:384:GLN:HG2	1:B:385:SER:H	1.55	0.72
1:W:364:GLN:HB2	1:W:407:TRP:HZ3	1.53	0.72
1:Y:364:GLN:HB2	1:Y:407:TRP:HZ3	1.53	0.72
1:4:407:TRP:HD1	1:4:410:ASN:H	1.34	0.72
1:e:378:TYR:HE1	1:e:384:GLN:H	1.35	0.72
1:m:457:HIS:HD2	1:m:458:PRO:HD2	1.53	0.72
1:o:148:PHE:HD1	1:o:149:ASN:HD22	1.36	0.72
1:o:552:ASN:HD22	1:v:241:GLY:H	1.38	0.72
1:q:356:PRO:HB2	1:s:452:LEU:HD13	1.72	0.72
1:x:148:PHE:HD1	1:x:149:ASN:HD22	1.36	0.72
1:y:364:GLN:HB2	1:y:407:TRP:HZ3	1.53	0.72
1:H:457:HIS:HD2	1:H:458:PRO:HD2	1.53	0.72
1:M:384:GLN:HG2	1:M:385:SER:H	1.55	0.72
1:N:552:ASN:HD22	1:g:241:GLY:H	1.38	0.72
1:O:552:ASN:HD22	1:P:241:GLY:H	1.37	0.72
1:T:148:PHE:HD1	1:T:149:ASN:HD22	1.36	0.72
1:1:452:LEU:HD13	1:8:356:PRO:HB2	1.72	0.72
1:f:457:HIS:HD2	1:f:458:PRO:HD2	1.53	0.72
1:i:384:GLN:HG2	1:i:385:SER:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:241:GLY:H	1:r:552:ASN:HD22	1.38	0.72
1:r:407:TRP:HD1	1:r:410:ASN:H	1.34	0.72
1:r:452:LEU:HD13	1:s:356:PRO:HB2	1.71	0.72
1:C:384:GLN:HG2	1:C:385:SER:H	1.55	0.72
1:I:364:GLN:HB2	1:I:407:TRP:HZ3	1.53	0.72
1:L:457:HIS:HD2	1:L:458:PRO:HD2	1.53	0.72
1:O:356:PRO:HB2	1:h:452:LEU:HD13	1.72	0.72
1:Q:552:ASN:HD22	1:S:241:GLY:H	1.38	0.72
1:W:378:TYR:HE1	1:W:384:GLN:H	1.35	0.72
1:Z:457:HIS:HD2	1:Z:458:PRO:HD2	1.53	0.72
1:6:241:GLY:H	1:t:552:ASN:HD22	1.38	0.72
1:b:552:ASN:HD22	1:c:241:GLY:H	1.37	0.72
1:d:457:HIS:HD2	1:d:458:PRO:HD2	1.53	0.72
1:i:452:LEU:HD13	1:j:356:PRO:HB2	1.71	0.72
1:k:384:GLN:HG2	1:k:385:SER:H	1.55	0.72
1:o:452:LEU:HD13	1:p:356:PRO:HB2	1.71	0.72
1:w:552:ASN:HD22	1:8:241:GLY:H	1.37	0.72
1:D:148:PHE:HD1	1:D:149:ASN:HD22	1.36	0.72
1:F:457:HIS:HD2	1:F:458:PRO:HD2	1.53	0.72
1:O:241:GLY:H	1:4:552:ASN:HD22	1.37	0.72
1:U:552:ASN:HD22	1:5:241:GLY:H	1.38	0.72
1:1:148:PHE:HD1	1:1:149:ASN:HD22	1.36	0.72
1:6:452:LEU:HD13	1:b:356:PRO:HB2	1.72	0.72
1:b:384:GLN:HG2	1:b:385:SER:H	1.55	0.72
1:g:148:PHE:HD1	1:g:149:ASN:HD22	1.36	0.72
1:h:148:PHE:HD1	1:h:149:ASN:HD22	1.36	0.72
1:m:364:GLN:HB2	1:m:407:TRP:HZ3	1.53	0.72
1:o:457:HIS:HD2	1:o:458:PRO:HD2	1.53	0.72
1:p:364:GLN:HB2	1:p:407:TRP:HZ3	1.53	0.72
1:x:364:GLN:HB2	1:x:407:TRP:HZ3	1.53	0.72
1:y:356:PRO:HB2	1:7:452:LEU:HD13	1.71	0.72
1:7:457:HIS:HD2	1:7:458:PRO:HD2	1.53	0.72
1:A:356:PRO:HB2	1:I:452:LEU:HD13	1.72	0.72
1:B:241:GLY:H	1:C:552:ASN:HD22	1.37	0.72
1:C:356:PRO:HB2	1:M:452:LEU:HD13	1.71	0.72
1:H:241:GLY:H	1:Z:552:ASN:HD22	1.37	0.72
1:J:384:GLN:HG2	1:J:385:SER:H	1.55	0.72
1:L:364:GLN:HB2	1:L:407:TRP:HZ3	1.53	0.72
1:N:457:HIS:HD2	1:N:458:PRO:HD2	1.53	0.72
1:j:384:GLN:HG2	1:j:385:SER:H	1.55	0.72
1:y:378:TYR:HE1	1:y:384:GLN:H	1.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:356:PRO:HB2	1:Q:452:LEU:HD13	1.71	0.72
1:H:378:TYR:HE1	1:H:384:GLN:H	1.35	0.72
1:N:378:TYR:HE1	1:N:384:GLN:H	1.35	0.72
1:N:452:LEU:HD13	1:P:356:PRO:HB2	1.71	0.72
1:R:384:GLN:HG2	1:R:385:SER:H	1.55	0.72
1:X:384:GLN:HG2	1:X:385:SER:H	1.55	0.72
1:6:384:GLN:HG2	1:6:385:SER:H	1.55	0.72
1:h:364:GLN:HB2	1:h:407:TRP:HZ3	1.53	0.72
1:i:364:GLN:HB2	1:i:407:TRP:HZ3	1.53	0.72
1:l:378:TYR:HE1	1:l:384:GLN:H	1.35	0.72
1:m:384:GLN:HG2	1:m:385:SER:H	1.55	0.72
1:y:241:GLY:H	1:8:552:ASN:HD22	1.37	0.72
1:F:364:GLN:HB2	1:F:407:TRP:HZ3	1.53	0.71
1:F:384:GLN:HG2	1:F:385:SER:H	1.55	0.71
1:L:384:GLN:HG2	1:L:385:SER:H	1.55	0.71
1:Q:457:HIS:HD2	1:Q:458:PRO:HD2	1.53	0.71
1:T:384:GLN:HG2	1:T:385:SER:H	1.55	0.71
1:T:452:LEU:HD13	1:4:356:PRO:HB2	1.72	0.71
1:X:356:PRO:HB2	1:5:452:LEU:HD13	1.72	0.71
1:a:241:GLY:H	1:e:552:ASN:HD22	1.38	0.71
1:d:378:TYR:HE1	1:d:384:GLN:H	1.35	0.71
1:g:364:GLN:HB2	1:g:407:TRP:HZ3	1.53	0.71
1:l:384:GLN:HG2	1:l:385:SER:H	1.55	0.71
1:u:384:GLN:HG2	1:u:385:SER:H	1.55	0.71
1:x:384:GLN:HG2	1:x:385:SER:H	1.55	0.71
1:G:148:PHE:HD1	1:G:149:ASN:HD22	1.36	0.71
1:I:378:TYR:HE1	1:I:384:GLN:H	1.35	0.71
1:J:378:TYR:HE1	1:J:384:GLN:H	1.35	0.71
1:O:452:LEU:HD13	1:g:356:PRO:HB2	1.71	0.71
1:P:378:TYR:HE1	1:P:384:GLN:H	1.36	0.71
1:T:364:GLN:HB2	1:T:407:TRP:HZ3	1.53	0.71
1:5:384:GLN:HG2	1:5:385:SER:H	1.55	0.71
1:c:384:GLN:HG2	1:c:385:SER:H	1.55	0.71
1:p:384:GLN:HG2	1:p:385:SER:H	1.55	0.71
1:p:552:ASN:HD22	1:q:241:GLY:H	1.37	0.71
1:w:356:PRO:HB2	1:x:452:LEU:HD13	1.72	0.71
1:z:148:PHE:HD1	1:z:149:ASN:HD22	1.36	0.71
1:7:378:TYR:HE1	1:7:384:GLN:H	1.35	0.71
1:8:378:TYR:HE1	1:8:384:GLN:H	1.35	0.71
1:A:241:GLY:H	1:B:552:ASN:HD22	1.38	0.71
1:F:552:ASN:HD22	1:G:241:GLY:H	1.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:356:PRO:HB2	1:8:452:LEU:HD13	1.72	0.71
1:M:364:GLN:HB2	1:M:407:TRP:HZ3	1.53	0.71
1:X:241:GLY:H	1:6:552:ASN:HD22	1.37	0.71
1:Y:384:GLN:HG2	1:Y:385:SER:H	1.55	0.71
1:1:364:GLN:HB2	1:1:407:TRP:HZ3	1.53	0.71
1:d:384:GLN:HG2	1:d:385:SER:H	1.55	0.71
1:h:241:GLY:H	1:l:552:ASN:HD22	1.38	0.71
1:q:148:PHE:HD1	1:q:149:ASN:HD22	1.36	0.71
1:z:364:GLN:HB2	1:z:407:TRP:HZ3	1.53	0.71
1:A:384:GLN:HG2	1:A:385:SER:H	1.55	0.71
1:C:241:GLY:H	1:D:552:ASN:HD22	1.38	0.71
1:D:364:GLN:HB2	1:D:407:TRP:HZ3	1.53	0.71
1:H:384:GLN:HG2	1:H:385:SER:H	1.55	0.71
1:J:148:PHE:HD1	1:J:149:ASN:HD22	1.36	0.71
1:K:148:PHE:HD1	1:K:149:ASN:HD22	1.36	0.71
1:K:364:GLN:HB2	1:K:407:TRP:HZ3	1.53	0.71
1:O:378:TYR:HE1	1:O:384:GLN:H	1.35	0.71
1:4:378:TYR:HE1	1:4:384:GLN:H	1.35	0.71
1:5:552:ASN:HD22	1:b:241:GLY:H	1.37	0.71
1:i:552:ASN:HD22	1:7:241:GLY:H	1.37	0.71
1:j:552:ASN:HD22	1:k:241:GLY:H	1.38	0.71
1:k:552:ASN:HD22	1:s:241:GLY:H	1.38	0.71
1:l:148:PHE:HD1	1:l:149:ASN:HD22	1.36	0.71
1:w:378:TYR:HE1	1:w:384:GLN:H	1.35	0.71
1:A:148:PHE:HD1	1:A:149:ASN:HD22	1.36	0.71
1:J:452:LEU:HD13	1:L:356:PRO:HB2	1.71	0.71
1:J:552:ASN:HD22	1:1:241:GLY:H	1.38	0.71
1:T:356:PRO:HB2	1:f:452:LEU:HD13	1.71	0.71
1:U:148:PHE:HD1	1:U:149:ASN:HD22	1.36	0.71
1:V:356:PRO:HB2	1:X:452:LEU:HD13	1.71	0.71
1:X:478:PRO:HD3	1:5:454:ALA:HB2	1.73	0.71
1:a:356:PRO:HB2	1:b:452:LEU:HD13	1.71	0.71
1:e:384:GLN:HG2	1:e:385:SER:H	1.55	0.71
1:s:384:GLN:HG2	1:s:385:SER:H	1.55	0.71
1:K:552:ASN:HD22	1:L:241:GLY:H	1.39	0.71
1:P:552:ASN:HD22	1:Q:241:GLY:H	1.37	0.71
1:Z:452:LEU:HD13	1:x:356:PRO:HB2	1.72	0.71
1:g:384:GLN:HG2	1:g:385:SER:H	1.55	0.71
1:j:241:GLY:H	1:z:552:ASN:HD22	1.38	0.71
1:r:378:TYR:HE1	1:r:384:GLN:H	1.35	0.71
1:s:148:PHE:HD1	1:s:149:ASN:HD22	1.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:148:PHE:HD1	1:t:149:ASN:HD22	1.36	0.71
1:z:384:GLN:HG2	1:z:385:SER:H	1.55	0.71
1:D:384:GLN:HG2	1:D:385:SER:H	1.55	0.71
1:E:384:GLN:HG2	1:E:385:SER:H	1.55	0.71
1:V:452:LEU:HD13	1:5:356:PRO:HB2	1.72	0.71
1:l:452:LEU:HD13	1:m:356:PRO:HB2	1.71	0.71
1:n:384:GLN:HG2	1:n:385:SER:H	1.55	0.71
1:H:478:PRO:HD3	1:Y:454:ALA:HB2	1.71	0.71
1:I:148:PHE:HD1	1:I:149:ASN:HD22	1.36	0.71
1:K:384:GLN:HG2	1:K:385:SER:H	1.55	0.71
1:L:552:ASN:HD22	1:2:241:GLY:H	1.38	0.71
1:M:552:ASN:HD22	1:N:241:GLY:H	1.37	0.71
1:T:454:ALA:HB2	1:4:478:PRO:HD3	1.73	0.71
1:W:384:GLN:HG2	1:W:385:SER:H	1.55	0.71
1:Z:454:ALA:HB2	1:x:478:PRO:HD3	1.73	0.71
1:6:356:PRO:HB2	1:a:452:LEU:HD13	1.72	0.71
1:6:454:ALA:HB2	1:b:478:PRO:HD3	1.73	0.71
1:8:384:GLN:HG3	1:8:393:ASP:HB2	1.73	0.71
1:D:241:GLY:H	1:E:552:ASN:HD22	1.37	0.71
1:O:384:GLN:HG3	1:O:393:ASP:HB2	1.73	0.71
1:Q:384:GLN:HG2	1:Q:385:SER:H	1.55	0.71
1:1:384:GLN:HG3	1:1:393:ASP:HB2	1.73	0.71
1:3:241:GLY:H	1:m:552:ASN:HD22	1.38	0.71
1:d:241:GLY:H	1:f:552:ASN:HD22	1.37	0.71
1:d:384:GLN:HG3	1:d:393:ASP:HB2	1.73	0.71
1:o:384:GLN:HG2	1:o:385:SER:H	1.55	0.71
1:t:452:LEU:HD13	1:u:356:PRO:HB2	1.71	0.71
1:w:478:PRO:HD3	1:x:454:ALA:HB2	1.73	0.71
1:E:148:PHE:HD1	1:E:149:ASN:HD22	1.36	0.71
1:H:384:GLN:HG3	1:H:393:ASP:HB2	1.73	0.71
1:M:478:PRO:HD3	1:2:454:ALA:HB2	1.73	0.71
1:N:384:GLN:HG3	1:N:393:ASP:HB2	1.73	0.71
1:R:356:PRO:HB2	1:U:452:LEU:HD13	1.71	0.71
1:U:384:GLN:HG3	1:U:393:ASP:HB2	1.73	0.71
1:X:148:PHE:HD1	1:X:149:ASN:HD22	1.36	0.71
1:4:148:PHE:HD1	1:4:149:ASN:HD22	1.36	0.71
1:b:148:PHE:HD1	1:b:149:ASN:HD22	1.36	0.71
1:h:384:GLN:HG3	1:h:393:ASP:HB2	1.73	0.71
1:o:241:GLY:H	1:y:552:ASN:HD22	1.37	0.71
1:t:384:GLN:HG3	1:t:393:ASP:HB2	1.73	0.71
1:w:148:PHE:HD1	1:w:149:ASN:HD22	1.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:384:GLN:HG2	1:w:385:SER:H	1.55	0.71
1:D:478:PRO:HD3	1:P:454:ALA:HB2	1.73	0.70
1:I:281:THR:H	1:I:401:ASN:HD22	1.39	0.70
1:N:454:ALA:HB2	1:P:478:PRO:HD3	1.73	0.70
1:R:384:GLN:HG3	1:R:393:ASP:HB2	1.73	0.70
1:T:478:PRO:HD3	1:f:454:ALA:HB2	1.73	0.70
1:4:384:GLN:HG3	1:4:393:ASP:HB2	1.73	0.70
1:4:384:GLN:HG2	1:4:385:SER:H	1.55	0.70
1:a:384:GLN:HG3	1:a:393:ASP:HB2	1.73	0.70
1:q:452:LEU:HD13	1:r:356:PRO:HB2	1.71	0.70
1:r:148:PHE:HD1	1:r:149:ASN:HD22	1.36	0.70
1:r:281:THR:H	1:r:401:ASN:HD22	1.39	0.70
1:u:384:GLN:HG3	1:u:393:ASP:HB2	1.73	0.70
1:w:384:GLN:HG3	1:w:393:ASP:HB2	1.73	0.70
1:7:384:GLN:HG3	1:7:393:ASP:HB2	1.73	0.70
1:G:384:GLN:HG3	1:G:393:ASP:HB2	1.73	0.70
1:G:452:LEU:HD13	1:I:356:PRO:HB2	1.71	0.70
1:U:281:THR:H	1:U:401:ASN:HD22	1.39	0.70
1:V:384:GLN:HG3	1:V:393:ASP:HB2	1.73	0.70
1:3:454:ALA:HB2	1:i:478:PRO:HD3	1.73	0.70
1:d:452:LEU:HD13	1:e:356:PRO:HB2	1.71	0.70
1:g:281:THR:H	1:g:401:ASN:HD22	1.39	0.70
1:l:454:ALA:HB2	1:m:478:PRO:HD3	1.73	0.70
1:q:384:GLN:HG3	1:q:393:ASP:HB2	1.73	0.70
1:y:454:ALA:HB2	1:z:478:PRO:HD3	1.73	0.70
1:y:478:PRO:HD3	1:7:454:ALA:HB2	1.73	0.70
1:E:356:PRO:HB2	1:F:452:LEU:HD13	1.72	0.70
1:H:281:THR:H	1:H:401:ASN:HD22	1.40	0.70
1:J:454:ALA:HB2	1:L:478:PRO:HD3	1.73	0.70
1:Z:281:THR:H	1:Z:401:ASN:HD22	1.39	0.70
1:d:281:THR:H	1:d:401:ASN:HD22	1.40	0.70
1:f:281:THR:H	1:f:401:ASN:HD22	1.39	0.70
1:i:384:GLN:HG3	1:i:393:ASP:HB2	1.73	0.70
1:n:148:PHE:HD1	1:n:149:ASN:HD22	1.36	0.70
1:n:356:PRO:HB2	1:p:452:LEU:HD13	1.72	0.70
1:t:281:THR:H	1:t:401:ASN:HD22	1.39	0.70
1:u:364:GLN:HB2	1:u:407:TRP:HZ3	1.53	0.70
1:u:452:LEU:HD13	1:v:356:PRO:HB2	1.71	0.70
1:v:281:THR:H	1:v:401:ASN:HD22	1.39	0.70
1:8:384:GLN:HG2	1:8:385:SER:H	1.55	0.70
1:B:356:PRO:HB2	1:L:452:LEU:HD13	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:281:THR:H	1:K:401:ASN:HD22	1.40	0.70
1:K:384:GLN:HG3	1:K:393:ASP:HB2	1.73	0.70
1:O:384:GLN:HG2	1:O:385:SER:H	1.55	0.70
1:R:364:GLN:HB2	1:R:407:TRP:HZ3	1.53	0.70
1:R:452:LEU:HD13	1:S:356:PRO:HB2	1.71	0.70
1:S:454:ALA:HB2	1:U:478:PRO:HD3	1.73	0.70
1:Z:384:GLN:HG2	1:Z:385:SER:H	1.55	0.70
1:g:384:GLN:HG3	1:g:393:ASP:HB2	1.73	0.70
1:k:356:PRO:HB2	1:m:452:LEU:HD13	1.71	0.70
1:n:552:ASN:HD22	1:z:241:GLY:H	1.37	0.70
1:o:384:GLN:HG3	1:o:393:ASP:HB2	1.73	0.70
1:r:384:GLN:HG2	1:r:385:SER:H	1.55	0.70
1:y:384:GLN:HG3	1:y:393:ASP:HB2	1.73	0.70
1:z:454:ALA:HB2	1:7:478:PRO:HD3	1.74	0.70
1:C:148:PHE:HD1	1:C:149:ASN:HD22	1.36	0.70
1:J:281:THR:H	1:J:401:ASN:HD22	1.39	0.70
1:M:384:GLN:HG3	1:M:393:ASP:HB2	1.73	0.70
1:P:384:GLN:HG3	1:P:393:ASP:HB2	1.73	0.70
1:S:281:THR:H	1:S:401:ASN:HD22	1.40	0.70
1:Z:356:PRO:HB2	1:w:452:LEU:HD13	1.72	0.70
1:Z:478:PRO:HD3	1:w:454:ALA:HB2	1.73	0.70
1:1:384:GLN:HG2	1:1:385:SER:H	1.55	0.70
1:4:452:LEU:HD13	1:f:356:PRO:HB2	1.72	0.70
1:l:281:THR:H	1:l:401:ASN:HD22	1.39	0.70
1:n:454:ALA:HB2	1:o:478:PRO:HD3	1.73	0.70
1:t:478:PRO:HD3	1:v:454:ALA:HB2	1.73	0.70
1:8:281:THR:H	1:8:401:ASN:HD22	1.39	0.70
1:D:454:ALA:HB2	1:N:478:PRO:HD3	1.74	0.70
1:F:478:PRO:HD3	1:Q:454:ALA:HB2	1.73	0.70
1:N:148:PHE:HD1	1:N:149:ASN:HD22	1.36	0.70
1:O:281:THR:H	1:O:401:ASN:HD22	1.39	0.70
1:Q:384:GLN:HG3	1:Q:393:ASP:HB2	1.73	0.70
1:R:454:ALA:HB2	1:S:478:PRO:HD3	1.73	0.70
1:Z:241:GLY:H	1:1:552:ASN:HD22	1.37	0.70
1:f:384:GLN:HG2	1:f:385:SER:H	1.55	0.70
1:k:454:ALA:HB2	1:l:478:PRO:HD3	1.74	0.70
1:l:384:GLN:HG3	1:l:393:ASP:HB2	1.73	0.70
1:o:454:ALA:HB2	1:p:478:PRO:HD3	1.73	0.70
1:u:454:ALA:HB2	1:v:478:PRO:HD3	1.73	0.70
1:7:148:PHE:HD1	1:7:149:ASN:HD22	1.36	0.70
1:7:384:GLN:HG2	1:7:385:SER:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:454:ALA:HB2	1:J:478:PRO:HD3	1.73	0.70
1:D:281:THR:H	1:D:401:ASN:HD22	1.39	0.70
1:E:384:GLN:HG3	1:E:393:ASP:HB2	1.73	0.70
1:E:454:ALA:HB2	1:Q:478:PRO:HD3	1.74	0.70
1:G:454:ALA:HB2	1:I:478:PRO:HD3	1.73	0.70
1:I:384:GLN:HG2	1:I:385:SER:H	1.55	0.70
1:J:384:GLN:HG3	1:J:393:ASP:HB2	1.73	0.70
1:M:356:PRO:HB2	1:2:452:LEU:HD13	1.72	0.70
1:3:384:GLN:HG2	1:3:385:SER:H	1.55	0.70
1:3:452:LEU:HD13	1:i:356:PRO:HB2	1.72	0.70
1:4:281:THR:H	1:4:401:ASN:HD22	1.39	0.70
1:4:454:ALA:HB2	1:f:478:PRO:HD3	1.73	0.70
1:b:281:THR:H	1:b:401:ASN:HD22	1.39	0.70
1:e:148:PHE:HD1	1:e:149:ASN:HD22	1.36	0.70
1:g:454:ALA:HB2	1:h:478:PRO:HD3	1.73	0.70
1:n:384:GLN:HG3	1:n:393:ASP:HB2	1.73	0.70
1:v:384:GLN:HG2	1:v:385:SER:H	1.55	0.70
1:z:384:GLN:HG3	1:z:393:ASP:HB2	1.73	0.70
1:A:552:ASN:HD22	1:E:241:GLY:H	1.37	0.70
1:E:478:PRO:HD3	1:F:454:ALA:HB2	1.73	0.70
1:G:384:GLN:HG2	1:G:385:SER:H	1.55	0.70
1:N:384:GLN:HG2	1:N:385:SER:H	1.55	0.70
1:V:384:GLN:HG2	1:V:385:SER:H	1.55	0.70
1:W:148:PHE:HD1	1:W:149:ASN:HD22	1.36	0.70
1:X:281:THR:H	1:X:401:ASN:HD22	1.39	0.70
1:a:478:PRO:HD3	1:b:454:ALA:HB2	1.73	0.70
1:h:384:GLN:HG2	1:h:385:SER:H	1.55	0.70
1:j:148:PHE:HD1	1:j:149:ASN:HD22	1.36	0.70
1:q:384:GLN:HG2	1:q:385:SER:H	1.55	0.70
1:C:478:PRO:HD3	1:M:454:ALA:HB2	1.73	0.70
1:D:384:GLN:HG3	1:D:393:ASP:HB2	1.73	0.70
1:T:552:ASN:HD22	1:U:241:GLY:H	1.37	0.70
1:V:478:PRO:HD3	1:X:454:ALA:HB2	1.73	0.70
1:2:384:GLN:HG2	1:2:385:SER:H	1.55	0.70
1:d:552:ASN:HD22	1:r:241:GLY:H	1.37	0.70
1:i:454:ALA:HB2	1:j:478:PRO:HD3	1.73	0.70
1:n:478:PRO:HD3	1:p:454:ALA:HB2	1.73	0.70
1:w:281:THR:H	1:w:401:ASN:HD22	1.39	0.70
1:z:281:THR:H	1:z:401:ASN:HD22	1.40	0.70
1:A:478:PRO:HD3	1:I:454:ALA:HB2	1.73	0.70
1:C:281:THR:H	1:C:401:ASN:HD22	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:281:THR:H	1:T:401:ASN:HD22	1.39	0.70
1:a:552:ASN:HD22	1:u:241:GLY:H	1.37	0.70
1:n:241:GLY:H	1:s:552:ASN:HD22	1.37	0.70
1:q:281:THR:H	1:q:401:ASN:HD22	1.39	0.70
1:q:454:ALA:HB2	1:r:478:PRO:HD3	1.74	0.70
1:R:241:GLY:H	1:V:552:ASN:HD22	1.37	0.69
1:S:384:GLN:HG2	1:S:385:SER:H	1.55	0.69
1:W:454:ALA:HB2	1:Y:478:PRO:HD3	1.74	0.69
1:6:478:PRO:HD3	1:a:454:ALA:HB2	1.73	0.69
1:a:384:GLN:HG2	1:a:385:SER:H	1.55	0.69
1:b:384:GLN:HG3	1:b:393:ASP:HB2	1.73	0.69
1:f:241:GLY:H	1:h:552:ASN:HD22	1.37	0.69
1:p:384:GLN:HG3	1:p:393:ASP:HB2	1.73	0.69
1:t:241:GLY:H	1:x:552:ASN:HD22	1.37	0.69
1:t:384:GLN:HG2	1:t:385:SER:H	1.55	0.69
1:G:281:THR:H	1:G:401:ASN:HD22	1.39	0.69
1:L:384:GLN:HG3	1:L:393:ASP:HB2	1.73	0.69
1:P:384:GLN:HG2	1:P:385:SER:H	1.55	0.69
1:X:384:GLN:HG3	1:X:393:ASP:HB2	1.73	0.69
1:2:281:THR:H	1:2:401:ASN:HD22	1.39	0.69
1:3:281:THR:H	1:3:401:ASN:HD22	1.39	0.69
1:e:384:GLN:HG3	1:e:393:ASP:HB2	1.73	0.69
1:j:281:THR:H	1:j:401:ASN:HD22	1.39	0.69
1:y:384:GLN:HG2	1:y:385:SER:H	1.55	0.69
1:F:384:GLN:HG3	1:F:393:ASP:HB2	1.73	0.69
1:H:356:PRO:HB2	1:Y:452:LEU:HD13	1.74	0.69
1:M:281:THR:H	1:M:401:ASN:HD22	1.40	0.69
1:U:384:GLN:HG2	1:U:385:SER:H	1.55	0.69
1:f:384:GLN:HG3	1:f:393:ASP:HB2	1.73	0.69
1:i:281:THR:H	1:i:401:ASN:HD22	1.39	0.69
1:m:384:GLN:HG3	1:m:393:ASP:HB2	1.73	0.69
1:o:281:THR:H	1:o:401:ASN:HD22	1.39	0.69
1:x:281:THR:H	1:x:401:ASN:HD22	1.39	0.69
1:C:384:GLN:HG3	1:C:393:ASP:HB2	1.73	0.69
1:H:552:ASN:HD22	1:I:241:GLY:H	1.38	0.69
1:Q:281:THR:H	1:Q:401:ASN:HD22	1.40	0.69
1:W:384:GLN:HG3	1:W:393:ASP:HB2	1.73	0.69
1:Z:384:GLN:HG3	1:Z:393:ASP:HB2	1.73	0.69
1:e:281:THR:H	1:e:401:ASN:HD22	1.39	0.69
1:V:454:ALA:HB2	1:5:478:PRO:HD3	1.73	0.69
1:X:552:ASN:HD22	1:Y:241:GLY:H	1.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:454:ALA:HB2	1:8:478:PRO:HD3	1.73	0.69
1:c:478:PRO:HD3	1:e:454:ALA:HB2	1.74	0.69
1:e:241:GLY:H	1:q:552:ASN:HD22	1.37	0.69
1:j:384:GLN:HG3	1:j:393:ASP:HB2	1.73	0.69
1:S:384:GLN:HG3	1:S:393:ASP:HB2	1.73	0.69
1:W:281:THR:H	1:W:401:ASN:HD22	1.39	0.69
1:2:384:GLN:HG3	1:2:393:ASP:HB2	1.73	0.69
1:r:454:ALA:HB2	1:s:478:PRO:HD3	1.73	0.69
1:s:384:GLN:HG3	1:s:393:ASP:HB2	1.73	0.69
1:v:384:GLN:HG3	1:v:393:ASP:HB2	1.73	0.69
1:v:552:ASN:HD22	1:w:241:GLY:H	1.38	0.69
1:A:384:GLN:HG3	1:A:393:ASP:HB2	1.73	0.69
1:B:478:PRO:HD3	1:L:454:ALA:HB2	1.74	0.69
1:K:454:ALA:HB2	1:1:478:PRO:HD3	1.74	0.69
1:T:384:GLN:HG3	1:T:393:ASP:HB2	1.73	0.69
1:3:384:GLN:HG3	1:3:393:ASP:HB2	1.73	0.69
1:5:384:GLN:HG3	1:5:393:ASP:HB2	1.73	0.69
1:a:281:THR:H	1:a:401:ASN:HD22	1.39	0.69
1:h:281:THR:H	1:h:401:ASN:HD22	1.39	0.69
1:k:478:PRO:HD3	1:m:454:ALA:HB2	1.74	0.69
1:x:384:GLN:HG3	1:x:393:ASP:HB2	1.73	0.69
1:F:281:THR:H	1:F:401:ASN:HD22	1.39	0.69
1:F:407:TRP:CD1	1:F:410:ASN:H	2.11	0.69
1:O:478:PRO:HD3	1:h:454:ALA:HB2	1.73	0.69
1:S:552:ASN:HD22	1:4:241:GLY:H	1.38	0.69
1:V:281:THR:H	1:V:401:ASN:HD22	1.40	0.69
1:1:281:THR:H	1:1:401:ASN:HD22	1.39	0.69
1:c:281:THR:H	1:c:401:ASN:HD22	1.40	0.69
1:c:384:GLN:HG3	1:c:393:ASP:HB2	1.73	0.69
1:c:454:ALA:HB2	1:d:478:PRO:HD3	1.73	0.69
1:d:454:ALA:HB2	1:e:478:PRO:HD3	1.73	0.69
1:T:407:TRP:CD1	1:T:410:ASN:H	2.11	0.69
1:U:407:TRP:CD1	1:U:410:ASN:H	2.11	0.69
1:Y:281:THR:H	1:Y:401:ASN:HD22	1.39	0.69
1:Y:384:GLN:HG3	1:Y:393:ASP:HB2	1.73	0.69
1:6:384:GLN:HG3	1:6:393:ASP:HB2	1.73	0.69
1:p:281:THR:H	1:p:401:ASN:HD22	1.39	0.69
1:p:407:TRP:CD1	1:p:410:ASN:H	2.11	0.69
1:t:407:TRP:CD1	1:t:410:ASN:H	2.11	0.69
1:x:407:TRP:CD1	1:x:410:ASN:H	2.11	0.69
1:O:407:TRP:CD1	1:O:410:ASN:H	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:407:TRP:CD1	1:2:410:ASN:H	2.11	0.69
1:3:407:TRP:CD1	1:3:410:ASN:H	2.11	0.69
1:5:281:THR:H	1:5:401:ASN:HD22	1.39	0.69
1:r:384:GLN:HG3	1:r:393:ASP:HB2	1.73	0.69
1:8:407:TRP:CD1	1:8:410:ASN:H	2.11	0.69
1:W:407:TRP:CD1	1:W:410:ASN:H	2.11	0.68
1:Z:407:TRP:CD1	1:Z:410:ASN:H	2.11	0.68
1:f:407:TRP:CD1	1:f:410:ASN:H	2.11	0.68
1:H:286:ARG:NH2	1:W:101:ASP:OD2	2.27	0.68
1:6:281:THR:H	1:6:401:ASN:HD22	1.39	0.68
1:e:407:TRP:CD1	1:e:410:ASN:H	2.11	0.68
1:u:281:THR:H	1:u:401:ASN:HD22	1.39	0.68
1:C:454:ALA:HB2	1:2:478:PRO:HD3	1.73	0.68
1:I:384:GLN:HG3	1:I:393:ASP:HB2	1.73	0.68
1:O:454:ALA:HB2	1:g:478:PRO:HD3	1.73	0.68
1:c:407:TRP:CD1	1:c:410:ASN:H	2.11	0.68
1:A:281:THR:H	1:A:401:ASN:HD22	1.39	0.68
1:K:478:PRO:HD3	1:8:454:ALA:HB2	1.73	0.68
1:R:281:THR:H	1:R:401:ASN:HD22	1.39	0.68
1:R:423:ASN:OD1	1:R:424:ALA:N	2.27	0.68
1:V:407:TRP:CD1	1:V:410:ASN:H	2.11	0.68
1:2:423:ASN:OD1	1:2:424:ALA:N	2.27	0.68
1:3:423:ASN:OD1	1:3:424:ALA:N	2.27	0.68
1:a:407:TRP:CD1	1:a:410:ASN:H	2.11	0.68
1:k:384:GLN:HG3	1:k:393:ASP:HB2	1.73	0.68
1:r:423:ASN:OD1	1:r:424:ALA:N	2.27	0.68
1:s:281:THR:H	1:s:401:ASN:HD22	1.39	0.68
1:y:281:THR:H	1:y:401:ASN:HD22	1.39	0.68
1:I:423:ASN:OD1	1:I:424:ALA:N	2.27	0.68
1:L:281:THR:H	1:L:401:ASN:HD22	1.39	0.68
1:N:423:ASN:OD1	1:N:424:ALA:N	2.27	0.68
1:S:407:TRP:CD1	1:S:410:ASN:H	2.11	0.68
1:U:423:ASN:OD1	1:U:424:ALA:N	2.27	0.68
1:Y:407:TRP:CD1	1:Y:410:ASN:H	2.11	0.68
1:m:407:TRP:CD1	1:m:410:ASN:H	2.11	0.68
1:t:423:ASN:OD1	1:t:424:ALA:N	2.27	0.68
1:u:423:ASN:OD1	1:u:424:ALA:N	2.27	0.68
1:7:423:ASN:OD1	1:7:424:ALA:N	2.27	0.68
1:A:454:ALA:HB2	1:G:478:PRO:HD3	1.73	0.68
1:B:384:GLN:HG3	1:B:393:ASP:HB2	1.73	0.68
1:3:478:PRO:HD3	1:j:454:ALA:HB2	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:281:THR:H	1:m:401:ASN:HD22	1.39	0.68
1:q:478:PRO:HD3	1:s:454:ALA:HB2	1.73	0.68
1:v:407:TRP:CD1	1:v:410:ASN:H	2.11	0.68
1:L:407:TRP:CD1	1:L:410:ASN:H	2.11	0.68
1:P:281:THR:H	1:P:401:ASN:HD22	1.40	0.68
1:c:423:ASN:OD1	1:c:424:ALA:N	2.27	0.68
1:k:407:TRP:CD1	1:k:410:ASN:H	2.11	0.68
1:o:407:TRP:CD1	1:o:410:ASN:H	2.11	0.68
1:t:454:ALA:HB2	1:u:478:PRO:HD3	1.74	0.68
1:7:281:THR:H	1:7:401:ASN:HD22	1.39	0.68
1:N:281:THR:H	1:N:401:ASN:HD22	1.39	0.68
1:Q:407:TRP:CD1	1:Q:410:ASN:H	2.11	0.68
1:R:478:PRO:HD3	1:U:454:ALA:HB2	1.74	0.68
1:Y:423:ASN:OD1	1:Y:424:ALA:N	2.27	0.68
1:h:407:TRP:CD1	1:h:410:ASN:H	2.11	0.68
1:H:407:TRP:CD1	1:H:410:ASN:H	2.11	0.68
1:1:407:TRP:CD1	1:1:410:ASN:H	2.11	0.68
1:i:407:TRP:CD1	1:i:410:ASN:H	2.11	0.68
1:l:407:TRP:CD1	1:l:410:ASN:H	2.11	0.68
1:z:407:TRP:CD1	1:z:410:ASN:H	2.11	0.68
1:B:407:TRP:CD1	1:B:410:ASN:H	2.11	0.68
1:C:407:TRP:CD1	1:C:410:ASN:H	2.11	0.68
1:M:407:TRP:CD1	1:M:410:ASN:H	2.11	0.68
1:d:407:TRP:CD1	1:d:410:ASN:H	2.11	0.68
1:j:407:TRP:CD1	1:j:410:ASN:H	2.11	0.68
1:A:423:ASN:OD1	1:A:424:ALA:N	2.27	0.67
1:D:407:TRP:CD1	1:D:410:ASN:H	2.11	0.67
1:G:552:ASN:HD22	1:W:241:GLY:H	1.38	0.67
1:J:407:TRP:CD1	1:J:410:ASN:H	2.11	0.67
1:X:407:TRP:CD1	1:X:410:ASN:H	2.11	0.67
1:Z:423:ASN:OD1	1:Z:424:ALA:N	2.27	0.67
1:5:407:TRP:CD1	1:5:410:ASN:H	2.11	0.67
1:6:423:ASN:OD1	1:6:424:ALA:N	2.27	0.67
1:f:423:ASN:OD1	1:f:424:ALA:N	2.27	0.67
1:l:423:ASN:OD1	1:l:424:ALA:N	2.27	0.67
1:q:407:TRP:CD1	1:q:410:ASN:H	2.11	0.67
1:s:423:ASN:OD1	1:s:424:ALA:N	2.27	0.67
1:u:407:TRP:CD1	1:u:410:ASN:H	2.11	0.67
1:E:407:TRP:CD1	1:E:410:ASN:H	2.11	0.67
1:G:407:TRP:CD1	1:G:410:ASN:H	2.11	0.67
1:J:423:ASN:OD1	1:J:424:ALA:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:423:ASN:OD1	1:L:424:ALA:N	2.27	0.67
1:b:407:TRP:CD1	1:b:410:ASN:H	2.11	0.67
1:m:423:ASN:OD1	1:m:424:ALA:N	2.27	0.67
1:s:407:TRP:CD1	1:s:410:ASN:H	2.11	0.67
1:w:407:TRP:CD1	1:w:410:ASN:H	2.11	0.67
1:A:407:TRP:CD1	1:A:410:ASN:H	2.11	0.67
1:E:281:THR:H	1:E:401:ASN:HD22	1.39	0.67
1:Q:423:ASN:OD1	1:Q:424:ALA:N	2.27	0.67
1:R:407:TRP:CD1	1:R:410:ASN:H	2.11	0.67
1:5:423:ASN:OD1	1:5:424:ALA:N	2.27	0.67
1:6:407:TRP:CD1	1:6:410:ASN:H	2.11	0.67
1:n:281:THR:H	1:n:401:ASN:HD22	1.39	0.67
1:Y:113:LEU:HD23	1:Y:211:TYR:HD1	1.60	0.67
1:4:407:TRP:CD1	1:4:410:ASN:H	2.11	0.67
1:4:423:ASN:OD1	1:4:424:ALA:N	2.27	0.67
1:k:281:THR:H	1:k:401:ASN:HD22	1.39	0.67
1:n:407:TRP:CD1	1:n:410:ASN:H	2.11	0.67
1:n:423:ASN:OD1	1:n:424:ALA:N	2.27	0.67
1:y:407:TRP:CD1	1:y:410:ASN:H	2.11	0.67
1:B:281:THR:H	1:B:401:ASN:HD22	1.39	0.67
1:E:423:ASN:OD1	1:E:424:ALA:N	2.27	0.67
1:P:113:LEU:HD23	1:P:211:TYR:HD1	1.60	0.67
1:Q:113:LEU:HD23	1:Q:211:TYR:HD1	1.60	0.67
1:R:113:LEU:HD23	1:R:211:TYR:HD1	1.60	0.67
1:2:113:LEU:HD23	1:2:211:TYR:HD1	1.60	0.67
1:3:113:LEU:HD23	1:3:211:TYR:HD1	1.60	0.67
1:c:113:LEU:HD23	1:c:211:TYR:HD1	1.60	0.67
1:o:423:ASN:OD1	1:o:424:ALA:N	2.27	0.67
1:7:407:TRP:CD1	1:7:410:ASN:H	2.11	0.67
1:8:113:LEU:HD23	1:8:211:TYR:HD1	1.60	0.67
1:K:423:ASN:OD1	1:K:424:ALA:N	2.27	0.67
1:P:407:TRP:CD1	1:P:410:ASN:H	2.11	0.67
1:X:113:LEU:HD23	1:X:211:TYR:HD1	1.60	0.67
1:X:423:ASN:OD1	1:X:424:ALA:N	2.27	0.67
1:b:113:LEU:HD23	1:b:211:TYR:HD1	1.60	0.67
1:h:423:ASN:OD1	1:h:424:ALA:N	2.27	0.67
1:o:113:LEU:HD23	1:o:211:TYR:HD1	1.60	0.67
1:u:113:LEU:HD23	1:u:211:TYR:HD1	1.60	0.67
1:w:423:ASN:OD1	1:w:424:ALA:N	2.27	0.67
1:y:113:LEU:HD23	1:y:211:TYR:HD1	1.60	0.67
1:C:113:LEU:HD23	1:C:211:TYR:HD1	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:407:TRP:CD1	1:N:410:ASN:H	2.11	0.67
1:O:113:LEU:HD23	1:O:211:TYR:HD1	1.60	0.67
1:b:423:ASN:OD1	1:b:424:ALA:N	2.27	0.67
1:h:113:LEU:HD23	1:h:211:TYR:HD1	1.60	0.67
1:i:423:ASN:OD1	1:i:424:ALA:N	2.27	0.67
1:j:113:LEU:HD23	1:j:211:TYR:HD1	1.60	0.67
1:p:423:ASN:OD1	1:p:424:ALA:N	2.27	0.67
1:w:113:LEU:HD23	1:w:211:TYR:HD1	1.60	0.67
1:F:423:ASN:OD1	1:F:424:ALA:N	2.27	0.67
1:I:113:LEU:HD23	1:I:211:TYR:HD1	1.60	0.67
1:I:407:TRP:CD1	1:I:410:ASN:H	2.11	0.67
1:K:407:TRP:CD1	1:K:410:ASN:H	2.11	0.67
1:1:113:LEU:HD23	1:1:211:TYR:HD1	1.60	0.67
1:1:423:ASN:OD1	1:1:424:ALA:N	2.27	0.67
1:4:113:LEU:HD23	1:4:211:TYR:HD1	1.60	0.67
1:e:423:ASN:OD1	1:e:424:ALA:N	2.27	0.67
1:g:423:ASN:OD1	1:g:424:ALA:N	2.27	0.67
1:r:407:TRP:CD1	1:r:410:ASN:H	2.11	0.67
1:B:113:LEU:HD23	1:B:211:TYR:HD1	1.60	0.67
1:S:113:LEU:HD23	1:S:211:TYR:HD1	1.60	0.67
1:r:113:LEU:HD23	1:r:211:TYR:HD1	1.60	0.67
1:D:423:ASN:OD1	1:D:424:ALA:N	2.27	0.67
1:M:423:ASN:OD1	1:M:424:ALA:N	2.27	0.67
1:S:423:ASN:OD1	1:S:424:ALA:N	2.27	0.67
1:W:423:ASN:OD1	1:W:424:ALA:N	2.27	0.67
1:g:407:TRP:CD1	1:g:410:ASN:H	2.11	0.67
1:v:113:LEU:HD23	1:v:211:TYR:HD1	1.60	0.67
1:B:423:ASN:OD1	1:B:424:ALA:N	2.27	0.66
1:D:286:ARG:NH2	1:N:101:ASP:OD2	2.29	0.66
1:G:423:ASN:OD1	1:G:424:ALA:N	2.27	0.66
1:H:423:ASN:OD1	1:H:424:ALA:N	2.27	0.66
1:T:113:LEU:HD23	1:T:211:TYR:HD1	1.60	0.66
1:5:113:LEU:HD23	1:5:211:TYR:HD1	1.60	0.66
1:6:113:LEU:HD23	1:6:211:TYR:HD1	1.60	0.66
1:d:423:ASN:OD1	1:d:424:ALA:N	2.27	0.66
1:k:113:LEU:HD23	1:k:211:TYR:HD1	1.60	0.66
1:q:113:LEU:HD23	1:q:211:TYR:HD1	1.60	0.66
1:x:113:LEU:HD23	1:x:211:TYR:HD1	1.60	0.66
1:z:423:ASN:OD1	1:z:424:ALA:N	2.27	0.66
1:k:423:ASN:OD1	1:k:424:ALA:N	2.27	0.66
1:z:113:LEU:HD23	1:z:211:TYR:HD1	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:113:LEU:HD23	1:D:211:TYR:HD1	1.60	0.66
1:G:113:LEU:HD23	1:G:211:TYR:HD1	1.60	0.66
1:H:113:LEU:HD23	1:H:211:TYR:HD1	1.60	0.66
1:V:423:ASN:OD1	1:V:424:ALA:N	2.27	0.66
1:c:101:ASP:OD2	1:e:286:ARG:NH2	2.29	0.66
1:d:113:LEU:HD23	1:d:211:TYR:HD1	1.60	0.66
1:q:423:ASN:OD1	1:q:424:ALA:N	2.27	0.66
1:v:423:ASN:OD1	1:v:424:ALA:N	2.27	0.66
1:z:286:ARG:NH2	1:7:101:ASP:OD2	2.29	0.66
1:A:113:LEU:HD23	1:A:211:TYR:HD1	1.60	0.66
1:E:196:GLU:OE1	1:E:209:SER:OG	2.14	0.66
1:H:454:ALA:HB2	1:W:478:PRO:HD3	1.76	0.66
1:K:286:ARG:NH2	1:1:101:ASP:OD2	2.29	0.66
1:P:423:ASN:OD1	1:P:424:ALA:N	2.27	0.66
1:s:113:LEU:HD23	1:s:211:TYR:HD1	1.60	0.66
1:C:423:ASN:OD1	1:C:424:ALA:N	2.27	0.66
1:O:423:ASN:OD1	1:O:424:ALA:N	2.27	0.66
1:T:196:GLU:OE1	1:T:209:SER:OG	2.14	0.66
1:a:423:ASN:OD1	1:a:424:ALA:N	2.27	0.66
1:n:196:GLU:OE1	1:n:209:SER:OG	2.14	0.66
1:x:196:GLU:OE1	1:x:209:SER:OG	2.14	0.66
1:y:423:ASN:OD1	1:y:424:ALA:N	2.27	0.66
1:8:423:ASN:OD1	1:8:424:ALA:N	2.27	0.66
1:H:196:GLU:OE1	1:H:209:SER:OG	2.14	0.66
1:L:113:LEU:HD23	1:L:211:TYR:HD1	1.60	0.66
1:d:196:GLU:OE1	1:d:209:SER:OG	2.14	0.66
1:F:113:LEU:HD23	1:F:211:TYR:HD1	1.60	0.66
1:j:423:ASN:OD1	1:j:424:ALA:N	2.27	0.66
1:m:113:LEU:HD23	1:m:211:TYR:HD1	1.60	0.66
1:p:113:LEU:HD23	1:p:211:TYR:HD1	1.60	0.66
1:E:113:LEU:HD23	1:E:211:TYR:HD1	1.60	0.66
1:N:113:LEU:HD23	1:N:211:TYR:HD1	1.60	0.66
1:R:101:ASP:OD2	1:U:286:ARG:NH2	2.29	0.66
1:t:286:ARG:NH2	1:u:101:ASP:OD2	2.29	0.66
1:x:423:ASN:OD1	1:x:424:ALA:N	2.27	0.66
1:y:101:ASP:OD2	1:7:286:ARG:NH2	2.29	0.66
1:J:286:ARG:NH2	1:L:101:ASP:OD2	2.29	0.66
1:R:286:ARG:NH2	1:S:101:ASP:OD2	2.29	0.66
1:T:423:ASN:OD1	1:T:424:ALA:N	2.27	0.66
1:W:286:ARG:NH2	1:Y:101:ASP:OD2	2.29	0.66
1:N:286:ARG:NH2	1:P:101:ASP:OD2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:196:GLU:OE1	1:O:209:SER:OG	2.14	0.66
1:n:113:LEU:HD23	1:n:211:TYR:HD1	1.60	0.66
1:B:196:GLU:OE1	1:B:209:SER:OG	2.14	0.65
1:W:113:LEU:HD23	1:W:211:TYR:HD1	1.60	0.65
1:g:113:LEU:HD23	1:g:211:TYR:HD1	1.60	0.65
1:l:286:ARG:NH2	1:m:101:ASP:OD2	2.29	0.65
1:u:286:ARG:NH2	1:v:101:ASP:OD2	2.29	0.65
1:7:113:LEU:HD23	1:7:211:TYR:HD1	1.60	0.65
1:8:196:GLU:OE1	1:8:209:SER:OG	2.14	0.65
1:V:196:GLU:OE1	1:V:209:SER:OG	2.14	0.65
1:V:286:ARG:NH2	1:5:101:ASP:OD2	2.30	0.65
1:d:286:ARG:NH2	1:e:101:ASP:OD2	2.30	0.65
1:f:113:LEU:HD23	1:f:211:TYR:HD1	1.60	0.65
1:r:286:ARG:NH2	1:s:101:ASP:OD2	2.30	0.65
1:E:286:ARG:NH2	1:Q:101:ASP:OD2	2.29	0.65
1:X:196:GLU:OE1	1:X:209:SER:OG	2.14	0.65
1:b:196:GLU:OE1	1:b:209:SER:OG	2.14	0.65
1:k:196:GLU:OE1	1:k:209:SER:OG	2.14	0.65
1:q:286:ARG:NH2	1:r:101:ASP:OD2	2.29	0.65
1:K:113:LEU:HD23	1:K:211:TYR:HD1	1.60	0.65
1:6:101:ASP:OD2	1:a:286:ARG:NH2	2.30	0.65
1:a:196:GLU:OE1	1:a:209:SER:OG	2.14	0.65
1:c:196:GLU:OE1	1:c:209:SER:OG	2.14	0.65
1:e:113:LEU:HD23	1:e:211:TYR:HD1	1.60	0.65
1:l:113:LEU:HD23	1:l:211:TYR:HD1	1.60	0.65
1:t:113:LEU:HD23	1:t:211:TYR:HD1	1.60	0.65
1:U:113:LEU:HD23	1:U:211:TYR:HD1	1.60	0.65
1:Y:196:GLU:OE1	1:Y:209:SER:OG	2.14	0.65
1:Z:113:LEU:HD23	1:Z:211:TYR:HD1	1.60	0.65
1:l:196:GLU:OE1	1:l:209:SER:OG	2.14	0.65
1:J:196:GLU:OE1	1:J:209:SER:OG	2.14	0.65
1:g:286:ARG:NH2	1:h:101:ASP:OD2	2.30	0.65
1:A:101:ASP:OD2	1:I:286:ARG:NH2	2.30	0.65
1:G:400:VAL:HG22	1:G:401:ASN:H	1.62	0.65
1:V:400:VAL:HG22	1:V:401:ASN:H	1.62	0.65
1:a:400:VAL:HG22	1:a:401:ASN:H	1.62	0.65
1:m:400:VAL:HG22	1:m:401:ASN:H	1.62	0.65
1:q:400:VAL:HG22	1:q:401:ASN:H	1.62	0.65
1:F:400:VAL:HG22	1:F:401:ASN:H	1.62	0.65
1:J:113:LEU:HD23	1:J:211:TYR:HD1	1.60	0.65
1:L:400:VAL:HG22	1:L:401:ASN:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:400:VAL:HG22	1:O:401:ASN:H	1.62	0.65
1:p:400:VAL:HG22	1:p:401:ASN:H	1.62	0.65
1:E:375:ARG:HH11	1:E:396:THR:HG1	1.44	0.65
1:E:400:VAL:HG22	1:E:401:ASN:H	1.62	0.65
1:M:113:LEU:HD23	1:M:211:TYR:HD1	1.60	0.65
1:Z:196:GLU:OE1	1:Z:209:SER:OG	2.14	0.65
1:5:400:VAL:HG22	1:5:401:ASN:H	1.62	0.65
1:n:400:VAL:HG22	1:n:401:ASN:H	1.62	0.65
1:t:196:GLU:OE1	1:t:209:SER:OG	2.14	0.65
1:8:400:VAL:HG22	1:8:401:ASN:H	1.62	0.65
1:G:286:ARG:NH2	1:I:101:ASP:OD2	2.30	0.64
1:R:400:VAL:HG22	1:R:401:ASN:H	1.62	0.64
1:T:400:VAL:HG22	1:T:401:ASN:H	1.62	0.64
1:6:400:VAL:HG22	1:6:401:ASN:H	1.62	0.64
1:i:113:LEU:HD23	1:i:211:TYR:HD1	1.60	0.64
1:w:101:ASP:OD2	1:x:286:ARG:NH2	2.30	0.64
1:x:400:VAL:HG22	1:x:401:ASN:H	1.62	0.64
1:B:101:ASP:OD2	1:L:286:ARG:NH2	2.29	0.64
1:D:101:ASP:OD2	1:P:286:ARG:NH2	2.29	0.64
1:K:400:VAL:HG22	1:K:401:ASN:H	1.62	0.64
1:U:196:GLU:OE1	1:U:209:SER:OG	2.14	0.64
1:c:286:ARG:NH2	1:d:101:ASP:OD2	2.29	0.64
1:f:196:GLU:OE1	1:f:209:SER:OG	2.14	0.64
1:t:400:VAL:HG22	1:t:401:ASN:H	1.62	0.64
1:u:400:VAL:HG22	1:u:401:ASN:H	1.62	0.64
1:T:286:ARG:NH2	1:4:101:ASP:OD2	2.30	0.64
1:U:400:VAL:HG22	1:U:401:ASN:H	1.62	0.64
1:5:196:GLU:OE1	1:5:209:SER:OG	2.14	0.64
1:6:196:GLU:OE1	1:6:209:SER:OG	2.14	0.64
1:g:400:VAL:HG22	1:g:401:ASN:H	1.62	0.64
1:k:101:ASP:OD2	1:m:286:ARG:NH2	2.29	0.64
1:t:101:ASP:OD2	1:v:286:ARG:NH2	2.29	0.64
1:d:400:VAL:HG22	1:d:401:ASN:H	1.62	0.64
1:y:286:ARG:NH2	1:z:101:ASP:OD2	2.29	0.64
1:A:400:VAL:HG22	1:A:401:ASN:H	1.62	0.64
1:B:340:GLN:NE2	1:B:358:VAL:HG22	2.12	0.64
1:S:286:ARG:NH2	1:U:101:ASP:OD2	2.29	0.64
1:S:400:VAL:HG22	1:S:401:ASN:H	1.62	0.64
1:4:196:GLU:OE1	1:4:209:SER:OG	2.14	0.64
1:4:375:ARG:HH11	1:4:396:THR:HG1	1.44	0.64
1:6:286:ARG:NH2	1:b:101:ASP:OD2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:400:VAL:HG22	1:j:401:ASN:H	1.62	0.64
1:y:400:VAL:HG22	1:y:401:ASN:H	1.62	0.64
1:A:196:GLU:OE1	1:A:209:SER:OG	2.14	0.64
1:B:286:ARG:NH2	1:J:101:ASP:OD2	2.29	0.64
1:G:196:GLU:OE1	1:G:209:SER:OG	2.14	0.64
1:1:286:ARG:NH2	1:8:101:ASP:OD2	2.30	0.64
1:4:400:VAL:HG22	1:4:401:ASN:H	1.62	0.64
1:m:196:GLU:OE1	1:m:209:SER:OG	2.14	0.64
1:q:196:GLU:OE1	1:q:209:SER:OG	2.14	0.64
1:s:400:VAL:HG22	1:s:401:ASN:H	1.62	0.64
1:v:400:VAL:HG22	1:v:401:ASN:H	1.62	0.64
1:w:400:VAL:HG22	1:w:401:ASN:H	1.62	0.64
1:7:196:GLU:OE1	1:7:209:SER:OG	2.14	0.64
1:C:101:ASP:OD2	1:M:286:ARG:NH2	2.30	0.64
1:H:400:VAL:HG22	1:H:401:ASN:H	1.62	0.64
1:P:400:VAL:HG22	1:P:401:ASN:H	1.62	0.64
1:T:101:ASP:OD2	1:f:286:ARG:NH2	2.30	0.64
1:V:113:LEU:HD23	1:V:211:TYR:HD1	1.60	0.64
1:W:400:VAL:HG22	1:W:401:ASN:H	1.62	0.64
1:2:400:VAL:HG22	1:2:401:ASN:H	1.62	0.64
1:e:400:VAL:HG22	1:e:401:ASN:H	1.62	0.64
1:i:286:ARG:NH2	1:j:101:ASP:OD2	2.30	0.64
1:s:196:GLU:OE1	1:s:209:SER:OG	2.14	0.64
1:w:196:GLU:OE1	1:w:209:SER:OG	2.14	0.64
1:B:400:VAL:HG22	1:B:401:ASN:H	1.62	0.64
1:C:400:VAL:HG22	1:C:401:ASN:H	1.62	0.64
1:H:394:ARG:NH2	1:Y:311:GLY:O	2.31	0.64
1:K:196:GLU:OE1	1:K:209:SER:OG	2.14	0.64
1:L:196:GLU:OE1	1:L:209:SER:OG	2.14	0.64
1:3:400:VAL:HG22	1:3:401:ASN:H	1.62	0.64
1:a:113:LEU:HD23	1:a:211:TYR:HD1	1.60	0.64
1:k:340:GLN:NE2	1:k:358:VAL:HG22	2.12	0.64
1:N:196:GLU:OE1	1:N:209:SER:OG	2.14	0.64
1:X:101:ASP:OD2	1:5:286:ARG:NH2	2.30	0.64
1:Z:286:ARG:NH2	1:x:101:ASP:OD2	2.30	0.64
1:3:196:GLU:OE1	1:3:209:SER:OG	2.14	0.64
1:o:196:GLU:OE1	1:o:209:SER:OG	2.14	0.64
1:z:400:VAL:HG22	1:z:401:ASN:H	1.62	0.64
1:N:400:VAL:HG22	1:N:401:ASN:H	1.62	0.64
1:2:196:GLU:OE1	1:2:209:SER:OG	2.14	0.64
1:3:286:ARG:NH2	1:i:101:ASP:OD2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:196:GLU:OE1	1:g:209:SER:OG	2.14	0.64
1:k:286:ARG:NH2	1:l:101:ASP:OD2	2.29	0.64
1:E:189:THR:H	1:E:495:GLN:NE2	1.96	0.63
1:M:340:GLN:NE2	1:M:358:VAL:HG22	2.12	0.63
1:Q:196:GLU:OE1	1:Q:209:SER:OG	2.14	0.63
1:k:400:VAL:HG22	1:k:401:ASN:H	1.62	0.63
1:u:196:GLU:OE1	1:u:209:SER:OG	2.14	0.63
1:x:189:THR:H	1:x:495:GLN:NE2	1.97	0.63
1:7:400:VAL:HG22	1:7:401:ASN:H	1.62	0.63
1:D:400:VAL:HG22	1:D:401:ASN:H	1.62	0.63
1:M:101:ASP:OD2	1:2:286:ARG:NH2	2.30	0.63
1:R:196:GLU:OE1	1:R:209:SER:OG	2.14	0.63
1:T:189:THR:H	1:T:495:GLN:NE2	1.97	0.63
1:X:189:THR:H	1:X:495:GLN:NE2	1.97	0.63
1:b:189:THR:H	1:b:495:GLN:NE2	1.97	0.63
1:i:189:THR:H	1:i:495:GLN:NE2	1.97	0.63
1:l:400:VAL:HG22	1:l:401:ASN:H	1.62	0.63
1:m:189:THR:H	1:m:495:GLN:NE2	1.97	0.63
1:n:189:THR:H	1:n:495:GLN:NE2	1.97	0.63
1:A:189:THR:H	1:A:495:GLN:NE2	1.97	0.63
1:F:189:THR:H	1:F:495:GLN:NE2	1.97	0.63
1:J:400:VAL:HG22	1:J:401:ASN:H	1.62	0.63
1:L:189:THR:H	1:L:495:GLN:NE2	1.97	0.63
1:U:189:THR:H	1:U:495:GLN:NE2	1.97	0.63
1:Y:400:VAL:HG22	1:Y:401:ASN:H	1.62	0.63
1:i:340:GLN:NE2	1:i:358:VAL:HG22	2.12	0.63
1:j:189:THR:H	1:j:495:GLN:NE2	1.96	0.63
1:l:189:THR:H	1:l:495:GLN:NE2	1.97	0.63
1:p:189:THR:H	1:p:495:GLN:NE2	1.97	0.63
1:t:189:THR:H	1:t:495:GLN:NE2	1.97	0.63
1:C:196:GLU:OE1	1:C:209:SER:OG	2.14	0.63
1:J:189:THR:H	1:J:495:GLN:NE2	1.97	0.63
1:L:340:GLN:NE2	1:L:358:VAL:HG22	2.12	0.63
1:M:189:THR:H	1:M:495:GLN:NE2	1.97	0.63
1:O:340:GLN:NE2	1:O:358:VAL:HG22	2.12	0.63
1:c:400:VAL:HG22	1:c:401:ASN:H	1.62	0.63
1:g:311:GLY:O	1:h:394:ARG:NH2	2.32	0.63
1:h:400:VAL:HG22	1:h:401:ASN:H	1.62	0.63
1:s:189:THR:H	1:s:495:GLN:NE2	1.97	0.63
1:C:189:THR:H	1:C:495:GLN:NE2	1.97	0.63
1:G:189:THR:H	1:G:495:GLN:NE2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:400:VAL:HG22	1:M:401:ASN:H	1.62	0.63
1:V:189:THR:H	1:V:495:GLN:NE2	1.97	0.63
1:W:196:GLU:OE1	1:W:209:SER:OG	2.14	0.63
1:1:400:VAL:HG22	1:1:401:ASN:H	1.62	0.63
1:a:189:THR:H	1:a:495:GLN:NE2	1.96	0.63
1:e:196:GLU:OE1	1:e:209:SER:OG	2.14	0.63
1:m:340:GLN:NE2	1:m:358:VAL:HG22	2.12	0.63
1:o:400:VAL:HG22	1:o:401:ASN:H	1.62	0.63
1:7:189:THR:H	1:7:495:GLN:HE22	1.47	0.63
1:8:340:GLN:NE2	1:8:358:VAL:HG22	2.12	0.63
1:Q:189:THR:H	1:Q:495:GLN:NE2	1.97	0.63
1:Z:394:ARG:NH2	1:w:311:GLY:O	2.32	0.63
1:2:189:THR:H	1:2:495:GLN:NE2	1.97	0.63
1:4:189:THR:H	1:4:495:GLN:NE2	1.96	0.63
1:6:394:ARG:NH2	1:a:311:GLY:O	2.32	0.63
1:q:189:THR:H	1:q:495:GLN:NE2	1.96	0.63
1:v:189:THR:H	1:v:495:GLN:NE2	1.97	0.63
1:w:189:THR:H	1:w:495:GLN:NE2	1.96	0.63
1:w:394:ARG:NH2	1:x:311:GLY:O	2.32	0.63
1:y:196:GLU:OE1	1:y:209:SER:OG	2.14	0.63
1:z:189:THR:H	1:z:495:GLN:NE2	1.96	0.63
1:D:189:THR:H	1:D:495:GLN:NE2	1.97	0.63
1:N:189:THR:H	1:N:495:GLN:HE22	1.47	0.63
1:P:340:GLN:NE2	1:P:358:VAL:HG22	2.12	0.63
1:S:189:THR:H	1:S:495:GLN:NE2	1.97	0.63
1:Z:400:VAL:HG22	1:Z:401:ASN:H	1.62	0.63
1:1:189:THR:H	1:1:495:GLN:HE22	1.47	0.63
1:3:189:THR:H	1:3:495:GLN:NE2	1.97	0.63
1:c:189:THR:H	1:c:495:GLN:HE22	1.47	0.63
1:e:189:THR:H	1:e:495:GLN:NE2	1.97	0.63
1:j:196:GLU:OE1	1:j:209:SER:OG	2.14	0.63
1:n:394:ARG:NH2	1:p:311:GLY:O	2.32	0.63
1:o:189:THR:H	1:o:495:GLN:NE2	1.97	0.63
1:z:189:THR:H	1:z:495:GLN:HE22	1.47	0.63
1:D:189:THR:H	1:D:495:GLN:HE22	1.47	0.63
1:Q:400:VAL:HG22	1:Q:401:ASN:H	1.62	0.63
1:V:311:GLY:O	1:5:394:ARG:NH2	2.32	0.63
1:Y:189:THR:H	1:Y:495:GLN:HE22	1.47	0.63
1:3:394:ARG:NH2	1:j:311:GLY:O	2.32	0.63
1:4:311:GLY:O	1:f:394:ARG:NH2	2.32	0.63
1:h:189:THR:H	1:h:495:GLN:HE22	1.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:400:VAL:HG22	1:i:401:ASN:H	1.62	0.63
1:r:400:VAL:HG22	1:r:401:ASN:H	1.62	0.63
1:y:340:GLN:NE2	1:y:358:VAL:HG22	2.11	0.63
1:C:311:GLY:O	1:2:394:ARG:NH2	2.32	0.63
1:F:394:ARG:NH2	1:Q:311:GLY:O	2.32	0.63
1:I:400:VAL:HG22	1:I:401:ASN:H	1.62	0.63
1:O:189:THR:H	1:O:495:GLN:HE22	1.47	0.63
1:P:196:GLU:OE1	1:P:209:SER:OG	2.14	0.63
1:T:311:GLY:O	1:4:394:ARG:NH2	2.32	0.63
1:W:189:THR:H	1:W:495:GLN:NE2	1.97	0.63
1:Z:189:THR:H	1:Z:495:GLN:NE2	1.96	0.63
1:f:189:THR:H	1:f:495:GLN:NE2	1.97	0.63
1:f:400:VAL:HG22	1:f:401:ASN:H	1.62	0.63
1:k:189:THR:H	1:k:495:GLN:HE22	1.47	0.63
1:q:394:ARG:NH2	1:s:311:GLY:O	2.32	0.63
1:7:189:THR:H	1:7:495:GLN:NE2	1.96	0.63
1:A:311:GLY:O	1:G:394:ARG:NH2	2.32	0.62
1:B:189:THR:H	1:B:495:GLN:HE22	1.47	0.62
1:E:394:ARG:NH2	1:F:311:GLY:O	2.32	0.62
1:K:340:GLN:NE2	1:K:358:VAL:HG22	2.11	0.62
1:N:189:THR:H	1:N:495:GLN:NE2	1.97	0.62
1:O:394:ARG:NH2	1:h:311:GLY:O	2.32	0.62
1:U:189:THR:H	1:U:495:GLN:HE22	1.47	0.62
1:1:311:GLY:O	1:8:394:ARG:NH2	2.32	0.62
1:4:189:THR:H	1:4:495:GLN:HE22	1.47	0.62
1:c:48:ASP:OD1	1:c:50:GLN:HG2	1.99	0.62
1:u:311:GLY:O	1:v:394:ARG:NH2	2.32	0.62
1:8:189:THR:H	1:8:495:GLN:HE22	1.47	0.62
1:B:394:ARG:NH2	1:L:311:GLY:O	2.32	0.62
1:C:394:ARG:NH2	1:M:311:GLY:O	2.32	0.62
1:G:48:ASP:OD1	1:G:50:GLN:HG2	1.99	0.62
1:I:189:THR:H	1:I:495:GLN:HE22	1.47	0.62
1:O:101:ASP:OD2	1:h:286:ARG:NH2	2.30	0.62
1:O:189:THR:H	1:O:495:GLN:NE2	1.96	0.62
1:Q:48:ASP:OD1	1:Q:50:GLN:HG2	2.00	0.62
1:X:394:ARG:NH2	1:5:311:GLY:O	2.33	0.62
1:X:400:VAL:HG22	1:X:401:ASN:H	1.62	0.62
1:Y:48:ASP:OD1	1:Y:50:GLN:HG2	2.00	0.62
1:Z:101:ASP:OD2	1:w:286:ARG:NH2	2.30	0.62
1:Z:311:GLY:O	1:x:394:ARG:NH2	2.32	0.62
1:6:189:THR:H	1:6:495:GLN:HE22	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:311:GLY:O	1:p:394:ARG:NH2	2.32	0.62
1:q:48:ASP:OD1	1:q:50:GLN:HG2	1.99	0.62
1:t:189:THR:H	1:t:495:GLN:HE22	1.47	0.62
1:A:286:ARG:NH2	1:G:101:ASP:OD2	2.29	0.62
1:M:394:ARG:NH2	1:2:311:GLY:O	2.32	0.62
1:R:311:GLY:O	1:S:394:ARG:NH2	2.33	0.62
1:T:48:ASP:OD1	1:T:50:GLN:HG2	2.00	0.62
1:4:286:ARG:NH2	1:f:101:ASP:OD2	2.30	0.62
1:b:189:THR:H	1:b:495:GLN:HE22	1.47	0.62
1:b:400:VAL:HG22	1:b:401:ASN:H	1.62	0.62
1:i:48:ASP:OD1	1:i:50:GLN:HG2	1.99	0.62
1:m:189:THR:H	1:m:495:GLN:HE22	1.47	0.62
1:o:48:ASP:OD1	1:o:50:GLN:HG2	2.00	0.62
1:r:189:THR:H	1:r:495:GLN:HE22	1.47	0.62
1:r:189:THR:H	1:r:495:GLN:NE2	1.97	0.62
1:w:189:THR:H	1:w:495:GLN:HE22	1.47	0.62
1:8:189:THR:H	1:8:495:GLN:NE2	1.97	0.62
1:C:457:HIS:CD2	1:C:458:PRO:HD2	2.35	0.62
1:D:159:ASN:O	1:D:160:THR:HG22	2.00	0.62
1:E:129:GLN:NE2	1:E:548:ILE:O	2.33	0.62
1:I:189:THR:H	1:I:495:GLN:NE2	1.97	0.62
1:I:457:HIS:CD2	1:I:458:PRO:HD2	2.35	0.62
1:L:189:THR:H	1:L:495:GLN:HE22	1.47	0.62
1:M:48:ASP:OD1	1:M:50:GLN:HG2	2.00	0.62
1:Q:340:GLN:NE2	1:Q:358:VAL:HG22	2.12	0.62
1:X:129:GLN:NE2	1:X:548:ILE:O	2.33	0.62
1:X:189:THR:H	1:X:495:GLN:HE22	1.47	0.62
1:X:457:HIS:CD2	1:X:458:PRO:HD2	2.35	0.62
1:5:189:THR:H	1:5:495:GLN:HE22	1.47	0.62
1:6:340:GLN:NE2	1:6:358:VAL:HG22	2.11	0.62
1:b:129:GLN:NE2	1:b:548:ILE:O	2.33	0.62
1:g:340:GLN:NE2	1:g:358:VAL:HG22	2.11	0.62
1:h:48:ASP:OD1	1:h:50:GLN:HG2	1.99	0.62
1:i:311:GLY:O	1:j:394:ARG:NH2	2.32	0.62
1:k:394:ARG:NH2	1:m:311:GLY:O	2.33	0.62
1:r:457:HIS:CD2	1:r:458:PRO:HD2	2.35	0.62
1:B:129:GLN:NE2	1:B:548:ILE:O	2.33	0.62
1:E:311:GLY:O	1:Q:394:ARG:NH2	2.33	0.62
1:F:159:ASN:O	1:F:160:THR:HG22	2.00	0.62
1:G:311:GLY:O	1:I:394:ARG:NH2	2.32	0.62
1:I:340:GLN:NE2	1:I:358:VAL:HG22	2.11	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:48:ASP:OD1	1:J:50:GLN:HG2	1.99	0.62
1:O:159:ASN:O	1:O:160:THR:HG22	2.00	0.62
1:O:311:GLY:O	1:g:394:ARG:NH2	2.33	0.62
1:P:189:THR:H	1:P:495:GLN:HE22	1.47	0.62
1:T:159:ASN:O	1:T:160:THR:HG22	2.00	0.62
1:U:159:ASN:O	1:U:160:THR:HG22	2.00	0.62
1:U:457:HIS:CD2	1:U:458:PRO:HD2	2.35	0.62
1:V:457:HIS:CD2	1:V:458:PRO:HD2	2.35	0.62
1:1:48:ASP:OD1	1:1:50:GLN:HG2	2.00	0.62
1:5:48:ASP:OD1	1:5:50:GLN:HG2	2.00	0.62
1:6:311:GLY:O	1:b:394:ARG:NH2	2.33	0.62
1:b:457:HIS:CD2	1:b:458:PRO:HD2	2.35	0.62
1:c:311:GLY:O	1:d:394:ARG:NH2	2.33	0.62
1:d:189:THR:H	1:d:495:GLN:NE2	1.96	0.62
1:j:457:HIS:CD2	1:j:458:PRO:HD2	2.35	0.62
1:l:48:ASP:OD1	1:l:50:GLN:HG2	2.00	0.62
1:l:159:ASN:O	1:l:160:THR:HG22	2.00	0.62
1:m:48:ASP:OD1	1:m:50:GLN:HG2	2.00	0.62
1:n:129:GLN:NE2	1:n:548:ILE:O	2.33	0.62
1:n:311:GLY:O	1:o:394:ARG:NH2	2.33	0.62
1:p:159:ASN:O	1:p:160:THR:HG22	2.00	0.62
1:p:457:HIS:CD2	1:p:458:PRO:HD2	2.35	0.62
1:r:196:GLU:OE1	1:r:209:SER:OG	2.14	0.62
1:t:159:ASN:O	1:t:160:THR:HG22	2.00	0.62
1:w:48:ASP:OD1	1:w:50:GLN:HG2	2.00	0.62
1:x:48:ASP:OD1	1:x:50:GLN:HG2	2.00	0.62
1:y:189:THR:H	1:y:495:GLN:HE22	1.47	0.62
1:8:48:ASP:OD1	1:8:50:GLN:HG2	1.99	0.62
1:F:457:HIS:CD2	1:F:458:PRO:HD2	2.35	0.62
1:H:189:THR:H	1:H:495:GLN:NE2	1.97	0.62
1:I:196:GLU:OE1	1:I:209:SER:OG	2.14	0.62
1:J:159:ASN:O	1:J:160:THR:HG22	2.00	0.62
1:L:48:ASP:OD1	1:L:50:GLN:HG2	2.00	0.62
1:O:48:ASP:OD1	1:O:50:GLN:HG2	1.99	0.62
1:T:394:ARG:NH2	1:f:311:GLY:O	2.32	0.62
1:1:129:GLN:NE2	1:1:548:ILE:O	2.33	0.62
1:3:311:GLY:O	1:i:394:ARG:NH2	2.33	0.62
1:4:48:ASP:OD1	1:4:50:GLN:HG2	2.00	0.62
1:a:457:HIS:CD2	1:a:458:PRO:HD2	2.35	0.62
1:f:189:THR:H	1:f:495:GLN:HE22	1.47	0.62
1:h:129:GLN:NE2	1:h:548:ILE:O	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:129:GLN:NE2	1:k:548:ILE:O	2.33	0.62
1:o:340:GLN:NE2	1:o:358:VAL:HG22	2.12	0.62
1:s:48:ASP:OD1	1:s:50:GLN:HG2	2.00	0.62
1:z:159:ASN:O	1:z:160:THR:HG22	2.00	0.62
1:8:159:ASN:O	1:8:160:THR:HG22	2.00	0.62
1:A:189:THR:H	1:A:495:GLN:HE22	1.47	0.62
1:D:340:GLN:NE2	1:D:358:VAL:HG22	2.12	0.62
1:I:159:ASN:O	1:I:160:THR:HG22	2.00	0.62
1:N:311:GLY:O	1:P:394:ARG:NH2	2.33	0.62
1:P:159:ASN:O	1:P:160:THR:HG22	2.00	0.62
1:Z:189:THR:H	1:Z:495:GLN:HE22	1.47	0.62
1:2:129:GLN:NE2	1:2:548:ILE:O	2.33	0.62
1:3:129:GLN:NE2	1:3:548:ILE:O	2.33	0.62
1:4:129:GLN:NE2	1:4:548:ILE:O	2.33	0.62
1:5:340:GLN:NE2	1:5:358:VAL:HG22	2.12	0.62
1:6:48:ASP:OD1	1:6:50:GLN:HG2	2.00	0.62
1:c:129:GLN:NE2	1:c:548:ILE:O	2.33	0.62
1:f:48:ASP:OD1	1:f:50:GLN:HG2	2.00	0.62
1:r:48:ASP:OD1	1:r:50:GLN:HG2	1.99	0.62
1:r:159:ASN:O	1:r:160:THR:HG22	2.00	0.62
1:r:340:GLN:NE2	1:r:358:VAL:HG22	2.11	0.62
1:t:457:HIS:CD2	1:t:458:PRO:HD2	2.35	0.62
1:x:159:ASN:O	1:x:160:THR:HG22	2.00	0.62
1:y:159:ASN:O	1:y:160:THR:HG22	2.00	0.62
1:z:340:GLN:NE2	1:z:358:VAL:HG22	2.12	0.62
1:A:48:ASP:OD1	1:A:50:GLN:HG2	2.00	0.62
1:E:159:ASN:O	1:E:160:THR:HG22	2.00	0.62
1:F:101:ASP:OD2	1:Q:286:ARG:NH2	2.30	0.62
1:H:101:ASP:OD2	1:Y:286:ARG:NH2	2.32	0.62
1:J:129:GLN:NE2	1:J:548:ILE:O	2.33	0.62
1:J:311:GLY:O	1:L:394:ARG:NH2	2.33	0.62
1:K:48:ASP:OD1	1:K:50:GLN:HG2	2.00	0.62
1:K:189:THR:H	1:K:495:GLN:NE2	1.97	0.62
1:L:129:GLN:NE2	1:L:548:ILE:O	2.33	0.62
1:L:457:HIS:CD2	1:L:458:PRO:HD2	2.35	0.62
1:V:48:ASP:OD1	1:V:50:GLN:HG2	2.00	0.62
1:W:159:ASN:O	1:W:160:THR:HG22	2.00	0.62
1:Y:129:GLN:NE2	1:Y:548:ILE:O	2.33	0.62
1:Z:48:ASP:OD1	1:Z:50:GLN:HG2	1.99	0.62
1:1:159:ASN:O	1:1:160:THR:HG22	2.00	0.62
1:1:196:GLU:OE1	1:1:209:SER:OG	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:48:ASP:OD1	1:g:50:GLN:HG2	2.00	0.62
1:l:311:GLY:O	1:m:394:ARG:NH2	2.33	0.62
1:m:457:HIS:CD2	1:m:458:PRO:HD2	2.35	0.62
1:n:159:ASN:O	1:n:160:THR:HG22	2.00	0.62
1:o:286:ARG:NH2	1:p:101:ASP:OD2	2.30	0.62
1:p:48:ASP:OD1	1:p:50:GLN:HG2	2.00	0.62
1:q:101:ASP:OD2	1:s:286:ARG:NH2	2.30	0.62
1:q:159:ASN:O	1:q:160:THR:HG22	2.00	0.62
1:s:189:THR:H	1:s:495:GLN:HE22	1.47	0.62
1:v:48:ASP:OD1	1:v:50:GLN:HG2	1.99	0.62
1:w:129:GLN:NE2	1:w:548:ILE:O	2.33	0.62
1:y:189:THR:H	1:y:495:GLN:NE2	1.96	0.62
1:z:48:ASP:OD1	1:z:50:GLN:HG2	1.99	0.62
1:A:129:GLN:NE2	1:A:548:ILE:O	2.33	0.62
1:C:129:GLN:NE2	1:C:548:ILE:O	2.33	0.62
1:F:196:GLU:OE1	1:F:209:SER:OG	2.14	0.62
1:G:159:ASN:O	1:G:160:THR:HG22	2.00	0.62
1:H:48:ASP:OD1	1:H:50:GLN:HG2	2.00	0.62
1:I:48:ASP:OD1	1:I:50:GLN:HG2	2.00	0.62
1:M:457:HIS:CD2	1:M:458:PRO:HD2	2.35	0.62
1:S:311:GLY:O	1:U:394:ARG:NH2	2.32	0.62
1:V:159:ASN:O	1:V:160:THR:HG22	2.00	0.62
1:V:189:THR:H	1:V:495:GLN:HE22	1.47	0.62
1:a:159:ASN:O	1:a:160:THR:HG22	2.00	0.62
1:d:48:ASP:OD1	1:d:50:GLN:HG2	2.00	0.62
1:e:159:ASN:O	1:e:160:THR:HG22	2.00	0.62
1:j:129:GLN:NE2	1:j:548:ILE:O	2.33	0.62
1:l:129:GLN:NE2	1:l:548:ILE:O	2.33	0.62
1:m:129:GLN:NE2	1:m:548:ILE:O	2.33	0.62
1:q:311:GLY:O	1:r:394:ARG:NH2	2.33	0.62
1:u:189:THR:H	1:u:495:GLN:NE2	1.96	0.62
1:y:129:GLN:NE2	1:y:548:ILE:O	2.33	0.62
1:A:394:ARG:NH2	1:I:311:GLY:O	2.32	0.62
1:D:48:ASP:OD1	1:D:50:GLN:HG2	2.00	0.62
1:F:48:ASP:OD1	1:F:50:GLN:HG2	2.00	0.62
1:K:129:GLN:NE2	1:K:548:ILE:O	2.33	0.62
1:P:48:ASP:OD1	1:P:50:GLN:HG2	1.99	0.62
1:P:129:GLN:NE2	1:P:548:ILE:O	2.33	0.62
1:P:189:THR:H	1:P:495:GLN:NE2	1.96	0.62
1:S:48:ASP:OD1	1:S:50:GLN:HG2	2.00	0.62
1:S:129:GLN:NE2	1:S:548:ILE:O	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:48:ASP:OD1	1:a:50:GLN:HG2	2.00	0.62
1:a:189:THR:H	1:a:495:GLN:HE22	1.47	0.62
1:c:189:THR:H	1:c:495:GLN:NE2	1.96	0.62
1:d:159:ASN:O	1:d:160:THR:HG22	2.00	0.62
1:g:129:GLN:NE2	1:g:548:ILE:O	2.33	0.62
1:g:189:THR:H	1:g:495:GLN:HE22	1.47	0.62
1:g:189:THR:H	1:g:495:GLN:NE2	1.97	0.62
1:h:159:ASN:O	1:h:160:THR:HG22	2.00	0.62
1:h:189:THR:H	1:h:495:GLN:NE2	1.97	0.62
1:s:129:GLN:NE2	1:s:548:ILE:O	2.33	0.62
1:t:394:ARG:NH2	1:v:311:GLY:O	2.33	0.62
1:v:129:GLN:NE2	1:v:548:ILE:O	2.33	0.62
1:y:394:ARG:NH2	1:7:311:GLY:O	2.33	0.62
1:7:159:ASN:O	1:7:160:THR:HG22	2.00	0.62
1:8:457:HIS:CD2	1:8:458:PRO:HD2	2.35	0.62
1:A:159:ASN:O	1:A:160:THR:HG22	2.00	0.61
1:B:189:THR:H	1:B:495:GLN:NE2	1.97	0.61
1:C:286:ARG:NH2	1:2:101:ASP:OD2	2.30	0.61
1:H:159:ASN:O	1:H:160:THR:HG22	2.00	0.61
1:H:375:ARG:HH21	1:Y:323:ASN:ND2	1.98	0.61
1:K:311:GLY:O	1:1:394:ARG:NH2	2.33	0.61
1:N:159:ASN:O	1:N:160:THR:HG22	2.00	0.61
1:Y:189:THR:H	1:Y:495:GLN:NE2	1.96	0.61
1:3:159:ASN:O	1:3:160:THR:HG22	2.00	0.61
1:4:159:ASN:O	1:4:160:THR:HG22	2.00	0.61
1:5:189:THR:H	1:5:495:GLN:NE2	1.97	0.61
1:6:189:THR:H	1:6:495:GLN:NE2	1.97	0.61
1:c:159:ASN:O	1:c:160:THR:HG22	2.00	0.61
1:f:159:ASN:O	1:f:160:THR:HG22	2.00	0.61
1:h:196:GLU:OE1	1:h:209:SER:OG	2.14	0.61
1:i:457:HIS:CD2	1:i:458:PRO:HD2	2.35	0.61
1:n:286:ARG:NH2	1:o:101:ASP:OD2	2.29	0.61
1:o:457:HIS:CD2	1:o:458:PRO:HD2	2.35	0.61
1:y:48:ASP:OD1	1:y:50:GLN:HG2	2.00	0.61
1:A:340:GLN:NE2	1:A:358:VAL:HG22	2.12	0.61
1:C:48:ASP:OD1	1:C:50:GLN:HG2	2.00	0.61
1:G:189:THR:H	1:G:495:GLN:HE22	1.47	0.61
1:K:189:THR:H	1:K:495:GLN:HE22	1.47	0.61
1:K:394:ARG:NH2	1:8:311:GLY:O	2.33	0.61
1:O:457:HIS:CD2	1:O:458:PRO:HD2	2.35	0.61
1:R:189:THR:H	1:R:495:GLN:NE2	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:129:GLN:NE2	1:V:548:ILE:O	2.33	0.61
1:W:129:GLN:NE2	1:W:548:ILE:O	2.33	0.61
1:W:457:HIS:CD2	1:W:458:PRO:HD2	2.35	0.61
1:Z:159:ASN:O	1:Z:160:THR:HG22	2.00	0.61
1:1:189:THR:H	1:1:495:GLN:NE2	1.97	0.61
1:3:101:ASP:OD2	1:j:286:ARG:NH2	2.30	0.61
1:p:196:GLU:OE1	1:p:209:SER:OG	2.14	0.61
1:r:311:GLY:O	1:s:394:ARG:NH2	2.32	0.61
1:s:159:ASN:O	1:s:160:THR:HG22	2.00	0.61
1:t:311:GLY:O	1:u:394:ARG:NH2	2.33	0.61
1:z:311:GLY:O	1:7:394:ARG:NH2	2.34	0.61
1:B:48:ASP:OD1	1:B:50:GLN:HG2	1.99	0.61
1:E:48:ASP:OD1	1:E:50:GLN:HG2	1.99	0.61
1:H:129:GLN:NE2	1:H:548:ILE:O	2.33	0.61
1:L:98:MET:SD	1:L:223:VAL:HA	2.41	0.61
1:U:48:ASP:OD1	1:U:50:GLN:HG2	2.00	0.61
1:V:101:ASP:OD2	1:X:286:ARG:NH2	2.30	0.61
1:Y:98:MET:SD	1:Y:223:VAL:HA	2.41	0.61
1:Y:159:ASN:O	1:Y:160:THR:HG22	2.00	0.61
1:2:48:ASP:OD1	1:2:50:GLN:HG2	2.00	0.61
1:2:159:ASN:O	1:2:160:THR:HG22	2.00	0.61
1:3:48:ASP:OD1	1:3:50:GLN:HG2	2.00	0.61
1:a:394:ARG:NH2	1:b:311:GLY:O	2.32	0.61
1:e:457:HIS:CD2	1:e:458:PRO:HD2	2.35	0.61
1:f:98:MET:SD	1:f:223:VAL:HA	2.41	0.61
1:k:189:THR:H	1:k:495:GLN:NE2	1.97	0.61
1:m:98:MET:SD	1:m:223:VAL:HA	2.41	0.61
1:n:48:ASP:OD1	1:n:50:GLN:HG2	2.00	0.61
1:o:159:ASN:O	1:o:160:THR:HG22	2.00	0.61
1:q:189:THR:H	1:q:495:GLN:HE22	1.47	0.61
1:w:159:ASN:O	1:w:160:THR:HG22	2.00	0.61
1:B:159:ASN:O	1:B:160:THR:HG22	2.00	0.61
1:C:189:THR:H	1:C:495:GLN:HE22	1.47	0.61
1:D:311:GLY:O	1:N:394:ARG:NH2	2.34	0.61
1:J:98:MET:SD	1:J:223:VAL:HA	2.41	0.61
1:O:129:GLN:NE2	1:O:548:ILE:O	2.33	0.61
1:Q:159:ASN:O	1:Q:160:THR:HG22	2.00	0.61
1:S:196:GLU:OE1	1:S:209:SER:OG	2.14	0.61
1:1:98:MET:SD	1:1:223:VAL:HA	2.41	0.61
1:5:159:ASN:O	1:5:160:THR:HG22	2.00	0.61
1:a:129:GLN:NE2	1:a:548:ILE:O	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:98:MET:SD	1:c:223:VAL:HA	2.41	0.61
1:f:129:GLN:NE2	1:f:548:ILE:O	2.33	0.61
1:g:457:HIS:CD2	1:g:458:PRO:HD2	2.35	0.61
1:h:98:MET:SD	1:h:223:VAL:HA	2.41	0.61
1:h:457:HIS:CD2	1:h:458:PRO:HD2	2.35	0.61
1:k:48:ASP:OD1	1:k:50:GLN:HG2	2.00	0.61
1:k:159:ASN:O	1:k:160:THR:HG22	2.00	0.61
1:s:340:GLN:NE2	1:s:358:VAL:HG22	2.12	0.61
1:v:98:MET:SD	1:v:223:VAL:HA	2.41	0.61
1:v:196:GLU:OE1	1:v:209:SER:OG	2.14	0.61
1:D:98:MET:SD	1:D:223:VAL:HA	2.41	0.61
1:F:98:MET:SD	1:F:223:VAL:HA	2.41	0.61
1:K:457:HIS:CD2	1:K:458:PRO:HD2	2.35	0.61
1:R:394:ARG:NH2	1:U:311:GLY:O	2.33	0.61
1:S:98:MET:SD	1:S:223:VAL:HA	2.41	0.61
1:S:159:ASN:O	1:S:160:THR:HG22	2.00	0.61
1:T:340:GLN:NE2	1:T:358:VAL:HG22	2.11	0.61
1:Z:98:MET:SD	1:Z:223:VAL:HA	2.41	0.61
1:1:457:HIS:CD2	1:1:458:PRO:HD2	2.35	0.61
1:3:98:MET:SD	1:3:223:VAL:HA	2.41	0.61
1:5:129:GLN:NE2	1:5:548:ILE:O	2.33	0.61
1:6:159:ASN:O	1:6:160:THR:HG22	2.00	0.61
1:d:129:GLN:NE2	1:d:548:ILE:O	2.33	0.61
1:d:457:HIS:CD2	1:d:458:PRO:HD2	2.35	0.61
1:e:129:GLN:NE2	1:e:548:ILE:O	2.33	0.61
1:j:48:ASP:OD1	1:j:50:GLN:HG2	2.00	0.61
1:k:311:GLY:O	1:l:394:ARG:NH2	2.33	0.61
1:l:98:MET:SD	1:l:223:VAL:HA	2.41	0.61
1:p:98:MET:SD	1:p:223:VAL:HA	2.41	0.61
1:t:48:ASP:OD1	1:t:50:GLN:HG2	2.00	0.61
1:t:129:GLN:NE2	1:t:548:ILE:O	2.33	0.61
1:v:159:ASN:O	1:v:160:THR:HG22	2.00	0.61
1:z:98:MET:SD	1:z:223:VAL:HA	2.41	0.61
1:D:129:GLN:NE2	1:D:548:ILE:O	2.33	0.61
1:H:189:THR:H	1:H:495:GLN:HE22	1.47	0.61
1:H:457:HIS:CD2	1:H:458:PRO:HD2	2.35	0.61
1:I:129:GLN:NE2	1:I:548:ILE:O	2.33	0.61
1:N:129:GLN:NE2	1:N:548:ILE:O	2.33	0.61
1:R:48:ASP:OD1	1:R:50:GLN:HG2	1.99	0.61
1:U:129:GLN:NE2	1:U:548:ILE:O	2.33	0.61
1:W:48:ASP:OD1	1:W:50:GLN:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:129:GLN:NE2	1:Z:548:ILE:O	2.33	0.61
1:2:98:MET:SD	1:2:223:VAL:HA	2.41	0.61
1:6:129:GLN:NE2	1:6:548:ILE:O	2.33	0.61
1:a:101:ASP:OD2	1:b:286:ARG:NH2	2.30	0.61
1:c:340:GLN:NE2	1:c:358:VAL:HG22	2.12	0.61
1:d:189:THR:H	1:d:495:GLN:HE22	1.47	0.61
1:i:98:MET:SD	1:i:223:VAL:HA	2.41	0.61
1:j:189:THR:H	1:j:495:GLN:HE22	1.47	0.61
1:m:159:ASN:O	1:m:160:THR:HG22	2.00	0.61
1:o:129:GLN:NE2	1:o:548:ILE:O	2.33	0.61
1:u:48:ASP:OD1	1:u:50:GLN:HG2	1.99	0.61
1:u:159:ASN:O	1:u:160:THR:HG22	2.00	0.61
1:7:129:GLN:NE2	1:7:548:ILE:O	2.33	0.61
1:8:129:GLN:NE2	1:8:548:ILE:O	2.33	0.61
1:C:98:MET:SD	1:C:223:VAL:HA	2.41	0.61
1:E:101:ASP:OD2	1:F:286:ARG:NH2	2.30	0.61
1:F:189:THR:H	1:F:495:GLN:HE22	1.47	0.61
1:K:101:ASP:OD2	1:8:286:ARG:NH2	2.29	0.61
1:L:159:ASN:O	1:L:160:THR:HG22	2.00	0.61
1:M:98:MET:SD	1:M:223:VAL:HA	2.41	0.61
1:R:159:ASN:O	1:R:160:THR:HG22	2.00	0.61
1:T:98:MET:SD	1:T:223:VAL:HA	2.41	0.61
1:V:394:ARG:NH2	1:X:311:GLY:O	2.32	0.61
1:W:98:MET:SD	1:W:223:VAL:HA	2.41	0.61
1:W:311:GLY:O	1:Y:394:ARG:NH2	2.33	0.61
1:b:98:MET:SD	1:b:223:VAL:HA	2.41	0.61
1:i:196:GLU:OE1	1:i:209:SER:OG	2.14	0.61
1:n:101:ASP:OD2	1:p:286:ARG:NH2	2.30	0.61
1:p:189:THR:H	1:p:495:GLN:HE22	1.47	0.61
1:r:98:MET:SD	1:r:223:VAL:HA	2.41	0.61
1:t:98:MET:SD	1:t:223:VAL:HA	2.41	0.61
1:u:457:HIS:CD2	1:u:458:PRO:HD2	2.35	0.61
1:x:98:MET:SD	1:x:223:VAL:HA	2.41	0.61
1:x:340:GLN:NE2	1:x:358:VAL:HG22	2.12	0.61
1:z:129:GLN:NE2	1:z:548:ILE:O	2.33	0.61
1:C:159:ASN:O	1:C:160:THR:HG22	2.00	0.61
1:M:159:ASN:O	1:M:160:THR:HG22	2.00	0.61
1:O:286:ARG:NH2	1:g:101:ASP:OD2	2.29	0.61
1:Q:129:GLN:NE2	1:Q:548:ILE:O	2.33	0.61
1:R:457:HIS:CD2	1:R:458:PRO:HD2	2.35	0.61
1:U:98:MET:SD	1:U:223:VAL:HA	2.41	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:98:MET:SD	1:V:223:VAL:HA	2.41	0.61
1:X:98:MET:SD	1:X:223:VAL:HA	2.41	0.61
1:Y:340:GLN:NE2	1:Y:358:VAL:HG22	2.11	0.61
1:b:159:ASN:O	1:b:160:THR:HG22	2.00	0.61
1:e:48:ASP:OD1	1:e:50:GLN:HG2	2.00	0.61
1:e:98:MET:SD	1:e:223:VAL:HA	2.41	0.61
1:i:159:ASN:O	1:i:160:THR:HG22	2.00	0.61
1:j:98:MET:SD	1:j:223:VAL:HA	2.41	0.61
1:r:129:GLN:NE2	1:r:548:ILE:O	2.33	0.61
1:B:311:GLY:O	1:J:394:ARG:NH2	2.33	0.61
1:I:98:MET:SD	1:I:223:VAL:HA	2.41	0.61
1:M:129:GLN:NE2	1:M:548:ILE:O	2.33	0.61
1:V:340:GLN:NE2	1:V:358:VAL:HG22	2.12	0.61
1:X:159:ASN:O	1:X:160:THR:HG22	2.00	0.61
1:2:189:THR:H	1:2:495:GLN:HE22	1.47	0.61
1:a:98:MET:SD	1:a:223:VAL:HA	2.41	0.61
1:h:340:GLN:NE2	1:h:358:VAL:HG22	2.12	0.61
1:u:189:THR:H	1:u:495:GLN:HE22	1.47	0.61
1:B:98:MET:SD	1:B:223:VAL:HA	2.41	0.61
1:E:340:GLN:NE2	1:E:358:VAL:HG22	2.12	0.61
1:G:340:GLN:NE2	1:G:358:VAL:HG22	2.12	0.61
1:J:340:GLN:NE2	1:J:358:VAL:HG22	2.11	0.61
1:Q:98:MET:SD	1:Q:223:VAL:HA	2.41	0.61
1:R:129:GLN:NE2	1:R:548:ILE:O	2.33	0.61
1:S:189:THR:H	1:S:495:GLN:HE22	1.47	0.61
1:S:457:HIS:CD2	1:S:458:PRO:HD2	2.35	0.61
1:1:340:GLN:NE2	1:1:358:VAL:HG22	2.12	0.61
1:b:48:ASP:OD1	1:b:50:GLN:HG2	1.99	0.61
1:e:189:THR:H	1:e:495:GLN:HE22	1.47	0.61
1:j:159:ASN:O	1:j:160:THR:HG22	2.00	0.61
1:k:98:MET:SD	1:k:223:VAL:HA	2.41	0.61
1:v:189:THR:H	1:v:495:GLN:HE22	1.47	0.61
1:y:98:MET:SD	1:y:223:VAL:HA	2.41	0.61
1:7:48:ASP:OD1	1:7:50:GLN:HG2	2.00	0.61
1:C:340:GLN:NE2	1:C:358:VAL:HG22	2.12	0.60
1:E:56:LEU:HD11	1:E:62:GLU:HB2	1.83	0.60
1:G:129:GLN:NE2	1:G:548:ILE:O	2.33	0.60
1:H:362:ILE:HD11	1:H:373:SER:HB3	1.83	0.60
1:M:196:GLU:OE1	1:M:209:SER:OG	2.14	0.60
1:N:48:ASP:OD1	1:N:50:GLN:HG2	2.00	0.60
1:O:56:LEU:HD11	1:O:62:GLU:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:362:ILE:HD11	1:U:373:SER:HB3	1.84	0.60
1:W:189:THR:H	1:W:495:GLN:HE22	1.47	0.60
1:3:189:THR:H	1:3:495:GLN:HE22	1.47	0.60
1:4:98:MET:SD	1:4:223:VAL:HA	2.41	0.60
1:a:340:GLN:NE2	1:a:358:VAL:HG22	2.12	0.60
1:d:311:GLY:O	1:e:394:ARG:NH2	2.33	0.60
1:g:159:ASN:O	1:g:160:THR:HG22	2.00	0.60
1:i:129:GLN:NE2	1:i:548:ILE:O	2.33	0.60
1:n:340:GLN:NE2	1:n:358:VAL:HG22	2.12	0.60
1:q:129:GLN:NE2	1:q:548:ILE:O	2.33	0.60
1:v:340:GLN:NE2	1:v:358:VAL:HG22	2.12	0.60
1:y:56:LEU:HD11	1:y:62:GLU:HB2	1.83	0.60
1:B:56:LEU:HD11	1:B:62:GLU:HB2	1.84	0.60
1:J:56:LEU:HD11	1:J:62:GLU:HB2	1.83	0.60
1:K:98:MET:SD	1:K:223:VAL:HA	2.41	0.60
1:K:159:ASN:O	1:K:160:THR:HG22	2.00	0.60
1:O:98:MET:SD	1:O:223:VAL:HA	2.41	0.60
1:P:56:LEU:HD11	1:P:62:GLU:HB2	1.83	0.60
1:P:98:MET:SD	1:P:223:VAL:HA	2.41	0.60
1:R:56:LEU:HD11	1:R:62:GLU:HB2	1.83	0.60
1:S:340:GLN:NE2	1:S:358:VAL:HG22	2.12	0.60
1:3:340:GLN:NE2	1:3:358:VAL:HG22	2.12	0.60
1:6:362:ILE:HD11	1:6:373:SER:HB3	1.84	0.60
1:k:56:LEU:HD11	1:k:62:GLU:HB2	1.84	0.60
1:l:56:LEU:HD11	1:l:62:GLU:HB2	1.84	0.60
1:n:362:ILE:HD11	1:n:373:SER:HB3	1.83	0.60
1:q:340:GLN:NE2	1:q:358:VAL:HG22	2.12	0.60
1:s:98:MET:SD	1:s:223:VAL:HA	2.41	0.60
1:t:362:ILE:HD11	1:t:373:SER:HB3	1.84	0.60
1:u:129:GLN:NE2	1:u:548:ILE:O	2.33	0.60
1:v:457:HIS:CD2	1:v:458:PRO:HD2	2.35	0.60
1:8:56:LEU:HD11	1:8:62:GLU:HB2	1.84	0.60
1:8:98:MET:SD	1:8:223:VAL:HA	2.41	0.60
1:A:98:MET:SD	1:A:223:VAL:HA	2.41	0.60
1:E:123:PHE:O	1:E:462:TYR:OH	2.16	0.60
1:N:98:MET:SD	1:N:223:VAL:HA	2.41	0.60
1:T:56:LEU:HD11	1:T:62:GLU:HB2	1.83	0.60
1:X:48:ASP:OD1	1:X:50:GLN:HG2	1.99	0.60
1:5:98:MET:SD	1:5:223:VAL:HA	2.41	0.60
1:5:362:ILE:HD11	1:5:373:SER:HB3	1.84	0.60
1:6:98:MET:SD	1:6:223:VAL:HA	2.41	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:362:ILE:HD11	1:d:373:SER:HB3	1.84	0.60
1:l:340:GLN:NE2	1:l:358:VAL:HG22	2.12	0.60
1:n:457:HIS:CD2	1:n:458:PRO:HD2	2.35	0.60
1:o:98:MET:SD	1:o:223:VAL:HA	2.41	0.60
1:q:98:MET:SD	1:q:223:VAL:HA	2.41	0.60
1:u:56:LEU:HD11	1:u:62:GLU:HB2	1.83	0.60
1:x:56:LEU:HD11	1:x:62:GLU:HB2	1.83	0.60
1:x:189:THR:H	1:x:495:GLN:HE22	1.47	0.60
1:y:311:GLY:O	1:z:394:ARG:NH2	2.34	0.60
1:7:98:MET:SD	1:7:223:VAL:HA	2.41	0.60
1:D:394:ARG:NH2	1:P:311:GLY:O	2.34	0.60
1:G:98:MET:SD	1:G:223:VAL:HA	2.41	0.60
1:R:189:THR:H	1:R:495:GLN:HE22	1.47	0.60
1:T:129:GLN:NE2	1:T:548:ILE:O	2.33	0.60
1:Y:362:ILE:HD11	1:Y:373:SER:HB3	1.83	0.60
1:Y:457:HIS:CD2	1:Y:458:PRO:HD2	2.35	0.60
1:2:340:GLN:NE2	1:2:358:VAL:HG22	2.12	0.60
1:c:362:ILE:HD11	1:c:373:SER:HB3	1.83	0.60
1:h:362:ILE:HD11	1:h:373:SER:HB3	1.84	0.60
1:n:56:LEU:HD11	1:n:62:GLU:HB2	1.84	0.60
1:n:98:MET:SD	1:n:223:VAL:HA	2.41	0.60
1:n:123:PHE:O	1:n:462:TYR:OH	2.16	0.60
1:w:98:MET:SD	1:w:223:VAL:HA	2.41	0.60
1:E:98:MET:SD	1:E:223:VAL:HA	2.41	0.60
1:E:362:ILE:HD11	1:E:373:SER:HB3	1.84	0.60
1:E:457:HIS:CD2	1:E:458:PRO:HD2	2.35	0.60
1:F:97:HIS:O	1:F:100:MET:HG2	2.02	0.60
1:1:362:ILE:HD11	1:1:373:SER:HB3	1.83	0.60
1:2:56:LEU:HD11	1:2:62:GLU:HB2	1.83	0.60
1:c:394:ARG:NH2	1:e:311:GLY:O	2.34	0.60
1:f:362:ILE:HD11	1:f:373:SER:HB3	1.84	0.60
1:g:98:MET:SD	1:g:223:VAL:HA	2.41	0.60
1:j:340:GLN:NE2	1:j:358:VAL:HG22	2.12	0.60
1:D:56:LEU:HD11	1:D:62:GLU:HB2	1.83	0.60
1:E:97:HIS:O	1:E:100:MET:HG2	2.02	0.60
1:J:97:HIS:O	1:J:100:MET:HG2	2.02	0.60
1:J:189:THR:H	1:J:495:GLN:HE22	1.47	0.60
1:M:56:LEU:HD11	1:M:62:GLU:HB2	1.83	0.60
1:X:97:HIS:O	1:X:100:MET:HG2	2.02	0.60
1:Z:56:LEU:HD11	1:Z:62:GLU:HB2	1.83	0.60
1:2:97:HIS:O	1:2:100:MET:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:97:HIS:O	1:3:100:MET:HG2	2.02	0.60
1:4:362:ILE:HD11	1:4:373:SER:HB3	1.84	0.60
1:6:97:HIS:O	1:6:100:MET:HG2	2.02	0.60
1:b:97:HIS:O	1:b:100:MET:HG2	2.02	0.60
1:c:457:HIS:CD2	1:c:458:PRO:HD2	2.35	0.60
1:i:56:LEU:HD11	1:i:62:GLU:HB2	1.83	0.60
1:i:189:THR:H	1:i:495:GLN:HE22	1.47	0.60
1:j:97:HIS:O	1:j:100:MET:HG2	2.02	0.60
1:l:97:HIS:O	1:l:100:MET:HG2	2.02	0.60
1:l:457:HIS:CD2	1:l:458:PRO:HD2	2.35	0.60
1:p:97:HIS:O	1:p:100:MET:HG2	2.02	0.60
1:w:362:ILE:HD11	1:w:373:SER:HB3	1.83	0.60
1:x:129:GLN:NE2	1:x:548:ILE:O	2.33	0.60
1:8:362:ILE:HD11	1:8:373:SER:HB3	1.84	0.60
1:C:97:HIS:O	1:C:100:MET:HG2	2.02	0.60
1:D:196:GLU:OE1	1:D:209:SER:OG	2.14	0.60
1:J:457:HIS:CD2	1:J:458:PRO:HD2	2.35	0.60
1:K:56:LEU:HD11	1:K:62:GLU:HB2	1.83	0.60
1:O:362:ILE:HD11	1:O:373:SER:HB3	1.84	0.60
1:P:457:HIS:CD2	1:P:458:PRO:HD2	2.35	0.60
1:T:457:HIS:CD2	1:T:458:PRO:HD2	2.35	0.60
1:W:56:LEU:HD11	1:W:62:GLU:HB2	1.84	0.60
1:Z:362:ILE:HD11	1:Z:373:SER:HB3	1.84	0.60
1:3:56:LEU:HD11	1:3:62:GLU:HB2	1.83	0.60
1:5:97:HIS:O	1:5:100:MET:HG2	2.02	0.60
1:6:56:LEU:HD11	1:6:62:GLU:HB2	1.83	0.60
1:e:56:LEU:HD11	1:e:62:GLU:HB2	1.84	0.60
1:f:56:LEU:HD11	1:f:62:GLU:HB2	1.84	0.60
1:l:362:ILE:HD11	1:l:373:SER:HB3	1.84	0.60
1:n:97:HIS:O	1:n:100:MET:HG2	2.02	0.60
1:8:97:HIS:O	1:8:100:MET:HG2	2.02	0.60
1:H:98:MET:SD	1:H:223:VAL:HA	2.41	0.60
1:L:97:HIS:O	1:L:100:MET:HG2	2.02	0.60
1:O:97:HIS:O	1:O:100:MET:HG2	2.02	0.60
1:R:98:MET:SD	1:R:223:VAL:HA	2.41	0.60
1:T:189:THR:H	1:T:495:GLN:HE22	1.47	0.60
1:X:362:ILE:HD11	1:X:373:SER:HB3	1.83	0.60
1:5:56:LEU:HD11	1:5:62:GLU:HB2	1.83	0.60
1:d:98:MET:SD	1:d:223:VAL:HA	2.41	0.60
1:l:189:THR:H	1:l:495:GLN:HE22	1.47	0.60
1:q:97:HIS:O	1:q:100:MET:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:98:MET:SD	1:u:223:VAL:HA	2.41	0.60
1:x:457:HIS:CD2	1:x:458:PRO:HD2	2.35	0.60
1:y:457:HIS:CD2	1:y:458:PRO:HD2	2.35	0.60
1:F:56:LEU:HD11	1:F:62:GLU:HB2	1.83	0.60
1:G:97:HIS:O	1:G:100:MET:HG2	2.02	0.60
1:J:362:ILE:HD11	1:J:373:SER:HB3	1.84	0.60
1:M:189:THR:H	1:M:495:GLN:HE22	1.47	0.60
1:3:375:ARG:HH21	1:j:323:ASN:ND2	2.00	0.60
1:g:56:LEU:HD11	1:g:62:GLU:HB2	1.83	0.60
1:g:323:ASN:ND2	1:h:375:ARG:HH21	2.00	0.60
1:i:362:ILE:HD11	1:i:373:SER:HB3	1.83	0.60
1:k:457:HIS:CD2	1:k:458:PRO:HD2	2.35	0.60
1:m:97:HIS:O	1:m:100:MET:HG2	2.02	0.60
1:p:129:GLN:NE2	1:p:548:ILE:O	2.33	0.60
1:z:56:LEU:HD11	1:z:62:GLU:HB2	1.84	0.60
1:z:196:GLU:OE1	1:z:209:SER:OG	2.14	0.60
1:z:457:HIS:CD2	1:z:458:PRO:HD2	2.35	0.60
1:E:189:THR:H	1:E:495:GLN:HE22	1.47	0.60
1:F:129:GLN:NE2	1:F:548:ILE:O	2.33	0.60
1:a:56:LEU:HD11	1:a:62:GLU:HB2	1.83	0.60
1:b:362:ILE:HD11	1:b:373:SER:HB3	1.84	0.60
1:j:56:LEU:HD11	1:j:62:GLU:HB2	1.83	0.60
1:k:362:ILE:HD11	1:k:373:SER:HB3	1.84	0.60
1:q:457:HIS:CD2	1:q:458:PRO:HD2	2.35	0.60
1:y:362:ILE:HD11	1:y:373:SER:HB3	1.84	0.60
1:B:362:ILE:HD11	1:B:373:SER:HB3	1.84	0.59
1:B:457:HIS:CD2	1:B:458:PRO:HD2	2.35	0.59
1:C:323:ASN:ND2	1:2:375:ARG:HH21	2.00	0.59
1:M:362:ILE:HD11	1:M:373:SER:HB3	1.84	0.59
1:P:362:ILE:HD11	1:P:373:SER:HB3	1.84	0.59
1:Q:189:THR:H	1:Q:495:GLN:HE22	1.47	0.59
1:V:56:LEU:HD11	1:V:62:GLU:HB2	1.83	0.59
1:b:56:LEU:HD11	1:b:62:GLU:HB2	1.84	0.59
1:p:56:LEU:HD11	1:p:62:GLU:HB2	1.84	0.59
1:u:362:ILE:HD11	1:u:373:SER:HB3	1.84	0.59
1:v:56:LEU:HD11	1:v:62:GLU:HB2	1.83	0.59
1:7:56:LEU:HD11	1:7:62:GLU:HB2	1.83	0.59
1:C:56:LEU:HD11	1:C:62:GLU:HB2	1.83	0.59
1:D:457:HIS:CD2	1:D:458:PRO:HD2	2.35	0.59
1:G:457:HIS:CD2	1:G:458:PRO:HD2	2.35	0.59
1:I:97:HIS:O	1:I:100:MET:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:56:LEU:HD11	1:N:62:GLU:HB2	1.83	0.59
1:R:97:HIS:O	1:R:100:MET:HG2	2.02	0.59
1:R:362:ILE:HD11	1:R:373:SER:HB3	1.84	0.59
1:S:56:LEU:HD11	1:S:62:GLU:HB2	1.83	0.59
1:X:56:LEU:HD11	1:X:62:GLU:HB2	1.84	0.59
1:Y:56:LEU:HD11	1:Y:62:GLU:HB2	1.83	0.59
1:Y:97:HIS:O	1:Y:100:MET:HG2	2.02	0.59
1:1:123:PHE:O	1:1:462:TYR:OH	2.16	0.59
1:a:97:HIS:O	1:a:100:MET:HG2	2.02	0.59
1:c:97:HIS:O	1:c:100:MET:HG2	2.02	0.59
1:n:189:THR:H	1:n:495:GLN:HE22	1.47	0.59
1:u:97:HIS:O	1:u:100:MET:HG2	2.02	0.59
1:N:97:HIS:O	1:N:100:MET:HG2	2.02	0.59
1:O:375:ARG:HH21	1:h:323:ASN:ND2	2.00	0.59
1:R:340:GLN:NE2	1:R:358:VAL:HG22	2.12	0.59
1:V:97:HIS:O	1:V:100:MET:HG2	2.02	0.59
1:3:457:HIS:CD2	1:3:458:PRO:HD2	2.35	0.59
1:6:457:HIS:CD2	1:6:458:PRO:HD2	2.35	0.59
1:c:56:LEU:HD11	1:c:62:GLU:HB2	1.83	0.59
1:j:362:ILE:HD11	1:j:373:SER:HB3	1.84	0.59
1:s:457:HIS:CD2	1:s:458:PRO:HD2	2.35	0.59
1:7:97:HIS:O	1:7:100:MET:HG2	2.02	0.59
1:A:457:HIS:CD2	1:A:458:PRO:HD2	2.35	0.59
1:C:362:ILE:HD11	1:C:373:SER:HB3	1.84	0.59
1:Q:97:HIS:O	1:Q:100:MET:HG2	2.02	0.59
1:W:407:TRP:HB3	1:Y:347:THR:HG23	1.85	0.59
1:d:56:LEU:HD11	1:d:62:GLU:HB2	1.83	0.59
1:o:189:THR:H	1:o:495:GLN:HE22	1.47	0.59
1:r:97:HIS:O	1:r:100:MET:HG2	2.02	0.59
1:A:347:THR:HG23	1:I:407:TRP:HB3	1.84	0.59
1:G:56:LEU:HD11	1:G:62:GLU:HB2	1.83	0.59
1:H:56:LEU:HD11	1:H:62:GLU:HB2	1.84	0.59
1:X:340:GLN:NE2	1:X:358:VAL:HG22	2.12	0.59
1:Z:323:ASN:ND2	1:x:375:ARG:HH21	2.01	0.59
1:1:323:ASN:ND2	1:8:375:ARG:HH21	2.01	0.59
1:2:457:HIS:CD2	1:2:458:PRO:HD2	2.35	0.59
1:4:97:HIS:O	1:4:100:MET:HG2	2.02	0.59
1:5:457:HIS:CD2	1:5:458:PRO:HD2	2.35	0.59
1:a:347:THR:HG23	1:b:407:TRP:HB3	1.85	0.59
1:h:123:PHE:O	1:h:462:TYR:OH	2.16	0.59
1:w:97:HIS:O	1:w:100:MET:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:375:ARG:HH21	1:M:323:ASN:ND2	2.01	0.59
1:H:97:HIS:O	1:H:100:MET:HG2	2.02	0.59
1:L:362:ILE:HD11	1:L:373:SER:HB3	1.84	0.59
1:Q:457:HIS:CD2	1:Q:458:PRO:HD2	2.35	0.59
1:U:97:HIS:O	1:U:100:MET:HG2	2.02	0.59
1:Z:457:HIS:CD2	1:Z:458:PRO:HD2	2.35	0.59
1:3:362:ILE:HD11	1:3:373:SER:HB3	1.83	0.59
1:4:56:LEU:HD11	1:4:62:GLU:HB2	1.83	0.59
1:a:362:ILE:HD11	1:a:373:SER:HB3	1.84	0.59
1:k:407:TRP:HB3	1:l:347:THR:HG23	1.85	0.59
1:m:362:ILE:HD11	1:m:373:SER:HB3	1.84	0.59
1:n:347:THR:HG23	1:p:407:TRP:HB3	1.85	0.59
1:o:97:HIS:O	1:o:100:MET:HG2	2.02	0.59
1:o:362:ILE:HD11	1:o:373:SER:HB3	1.84	0.59
1:q:56:LEU:HD11	1:q:62:GLU:HB2	1.83	0.59
1:u:323:ASN:ND2	1:v:375:ARG:HH21	2.01	0.59
1:w:56:LEU:HD11	1:w:62:GLU:HB2	1.83	0.59
1:w:347:THR:HG23	1:x:407:TRP:HB3	1.84	0.59
1:A:362:ILE:HD11	1:A:373:SER:HB3	1.83	0.59
1:B:407:TRP:HB3	1:J:347:THR:HG23	1.85	0.59
1:H:191:ALA:HA	1:Y:290:GLN:OE1	2.03	0.59
1:I:362:ILE:HD11	1:I:373:SER:HB3	1.83	0.59
1:K:97:HIS:O	1:K:100:MET:HG2	2.02	0.59
1:N:362:ILE:HD11	1:N:373:SER:HB3	1.83	0.59
1:O:323:ASN:ND2	1:g:375:ARG:HH21	2.01	0.59
1:T:97:HIS:O	1:T:100:MET:HG2	2.02	0.59
1:T:375:ARG:HH21	1:f:323:ASN:ND2	2.01	0.59
1:T:407:TRP:HB3	1:4:347:THR:HG23	1.84	0.59
1:X:347:THR:HG23	1:5:407:TRP:HB3	1.85	0.59
1:1:97:HIS:O	1:1:100:MET:HG2	2.02	0.59
1:2:362:ILE:HD11	1:2:373:SER:HB3	1.84	0.59
1:a:375:ARG:HH21	1:b:323:ASN:ND2	2.01	0.59
1:b:340:GLN:NE2	1:b:358:VAL:HG22	2.12	0.59
1:f:457:HIS:CD2	1:f:458:PRO:HD2	2.35	0.59
1:g:97:HIS:O	1:g:100:MET:HG2	2.02	0.59
1:h:97:HIS:O	1:h:100:MET:HG2	2.02	0.59
1:r:56:LEU:HD11	1:r:62:GLU:HB2	1.83	0.59
1:r:407:TRP:HB3	1:s:347:THR:HG23	1.84	0.59
1:t:97:HIS:O	1:t:100:MET:HG2	2.02	0.59
1:u:340:GLN:NE2	1:u:358:VAL:HG22	2.12	0.59
1:7:362:ILE:HD11	1:7:373:SER:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:97:HIS:O	1:B:100:MET:HG2	2.02	0.59
1:D:362:ILE:HD11	1:D:373:SER:HB3	1.83	0.59
1:E:347:THR:HG23	1:F:407:TRP:HB3	1.85	0.59
1:I:56:LEU:HD11	1:I:62:GLU:HB2	1.83	0.59
1:Q:362:ILE:HD11	1:Q:373:SER:HB3	1.84	0.59
1:U:56:LEU:HD11	1:U:62:GLU:HB2	1.83	0.59
1:V:347:THR:HG23	1:X:407:TRP:HB3	1.85	0.59
1:V:362:ILE:HD11	1:V:373:SER:HB3	1.84	0.59
1:Z:347:THR:HG23	1:w:407:TRP:HB3	1.85	0.59
1:6:407:TRP:HB3	1:b:347:THR:HG23	1.85	0.59
1:d:97:HIS:O	1:d:100:MET:HG2	2.02	0.59
1:f:97:HIS:O	1:f:100:MET:HG2	2.02	0.59
1:i:323:ASN:ND2	1:j:375:ARG:HH21	2.01	0.59
1:n:323:ASN:ND2	1:o:375:ARG:HH21	2.01	0.59
1:q:362:ILE:HD11	1:q:373:SER:HB3	1.83	0.59
1:q:375:ARG:HH21	1:s:323:ASN:ND2	2.01	0.59
1:s:362:ILE:HD11	1:s:373:SER:HB3	1.83	0.59
1:t:56:LEU:HD11	1:t:62:GLU:HB2	1.83	0.59
1:x:97:HIS:O	1:x:100:MET:HG2	2.02	0.59
1:A:97:HIS:O	1:A:100:MET:HG2	2.02	0.59
1:H:311:GLY:O	1:W:394:ARG:NH2	2.35	0.59
1:H:340:GLN:NE2	1:H:358:VAL:HG22	2.11	0.59
1:K:375:ARG:HH21	1:8:323:ASN:ND2	2.01	0.59
1:R:123:PHE:O	1:R:462:TYR:OH	2.16	0.59
1:R:323:ASN:ND2	1:S:375:ARG:HH21	2.01	0.59
1:W:340:GLN:NE2	1:W:358:VAL:HG22	2.12	0.59
1:Z:407:TRP:HB3	1:x:347:THR:HG23	1.84	0.59
1:g:407:TRP:HB3	1:h:347:THR:HG23	1.84	0.59
1:r:362:ILE:HD11	1:r:373:SER:HB3	1.84	0.59
1:w:375:ARG:HH21	1:x:323:ASN:ND2	2.00	0.59
1:z:97:HIS:O	1:z:100:MET:HG2	2.02	0.59
1:z:362:ILE:HD11	1:z:373:SER:HB3	1.84	0.59
1:B:542:TRP:HB3	1:J:246:PHE:HD2	1.68	0.59
1:D:97:HIS:O	1:D:100:MET:HG2	2.02	0.59
1:G:362:ILE:HD11	1:G:373:SER:HB3	1.84	0.59
1:L:56:LEU:HD11	1:L:62:GLU:HB2	1.83	0.59
1:T:362:ILE:HD11	1:T:373:SER:HB3	1.84	0.59
1:W:97:HIS:O	1:W:100:MET:HG2	2.02	0.59
1:Z:97:HIS:O	1:Z:100:MET:HG2	2.02	0.59
1:4:407:TRP:HB3	1:f:347:THR:HG23	1.85	0.59
1:6:375:ARG:HH21	1:a:323:ASN:ND2	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:323:ASN:ND2	1:d:375:ARG:HH21	2.01	0.59
1:e:97:HIS:O	1:e:100:MET:HG2	2.02	0.59
1:e:340:GLN:NE2	1:e:358:VAL:HG22	2.11	0.59
1:k:97:HIS:O	1:k:100:MET:HG2	2.02	0.59
1:p:362:ILE:HD11	1:p:373:SER:HB3	1.84	0.59
1:s:97:HIS:O	1:s:100:MET:HG2	2.02	0.59
1:y:97:HIS:O	1:y:100:MET:HG2	2.02	0.59
1:7:340:GLN:NE2	1:7:358:VAL:HG22	2.12	0.59
1:A:56:LEU:HD11	1:A:62:GLU:HB2	1.83	0.58
1:D:49:ASN:HD22	1:D:202:PRO:HB3	1.68	0.58
1:E:323:ASN:ND2	1:Q:375:ARG:HH21	2.01	0.58
1:F:347:THR:HG23	1:Q:407:TRP:HB3	1.85	0.58
1:F:362:ILE:HD11	1:F:373:SER:HB3	1.84	0.58
1:G:407:TRP:HB3	1:I:347:THR:HG23	1.85	0.58
1:K:414:GLN:NE2	1:K:419:THR:O	2.36	0.58
1:N:340:GLN:NE2	1:N:358:VAL:HG22	2.12	0.58
1:P:97:HIS:O	1:P:100:MET:HG2	2.02	0.58
1:S:407:TRP:HB3	1:U:347:THR:HG23	1.85	0.58
1:X:375:ARG:HH21	1:5:323:ASN:ND2	2.01	0.58
1:1:414:GLN:NE2	1:1:419:THR:O	2.36	0.58
1:c:49:ASN:HD22	1:c:202:PRO:HB3	1.68	0.58
1:g:414:GLN:NE2	1:g:419:THR:O	2.36	0.58
1:k:542:TRP:HB3	1:l:246:PHE:HD2	1.68	0.58
1:o:407:TRP:HB3	1:p:347:THR:HG23	1.84	0.58
1:o:414:GLN:NE2	1:o:419:THR:O	2.36	0.58
1:t:347:THR:HG23	1:v:407:TRP:HB3	1.85	0.58
1:v:97:HIS:O	1:v:100:MET:HG2	2.02	0.58
1:A:323:ASN:ND2	1:G:375:ARG:HH21	2.01	0.58
1:B:49:ASN:HD22	1:B:202:PRO:HB3	1.69	0.58
1:H:49:ASN:HD22	1:H:202:PRO:HB3	1.68	0.58
1:L:414:GLN:NE2	1:L:419:THR:O	2.37	0.58
1:N:414:GLN:NE2	1:N:419:THR:O	2.36	0.58
1:S:97:HIS:O	1:S:100:MET:HG2	2.02	0.58
1:T:323:ASN:ND2	1:4:375:ARG:HH21	2.01	0.58
1:V:323:ASN:ND2	1:5:375:ARG:HH21	2.01	0.58
1:V:375:ARG:HH21	1:X:323:ASN:ND2	2.01	0.58
1:V:414:GLN:NE2	1:V:419:THR:O	2.37	0.58
1:X:49:ASN:HD22	1:X:202:PRO:HB3	1.69	0.58
1:X:414:GLN:NE2	1:X:419:THR:O	2.37	0.58
1:Y:552:ASN:ND2	1:x:241:GLY:H	2.00	0.58
1:3:49:ASN:HD22	1:3:202:PRO:HB3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:414:GLN:NE2	1:a:419:THR:O	2.37	0.58
1:b:49:ASN:HD22	1:b:202:PRO:HB3	1.69	0.58
1:b:414:GLN:NE2	1:b:419:THR:O	2.37	0.58
1:d:49:ASN:HD22	1:d:202:PRO:HB3	1.68	0.58
1:d:323:ASN:ND2	1:e:375:ARG:HH21	2.01	0.58
1:h:414:GLN:NE2	1:h:419:THR:O	2.37	0.58
1:i:97:HIS:O	1:i:100:MET:HG2	2.02	0.58
1:k:323:ASN:ND2	1:l:375:ARG:HH21	2.01	0.58
1:l:49:ASN:HD22	1:l:202:PRO:HB3	1.69	0.58
1:m:414:GLN:NE2	1:m:419:THR:O	2.37	0.58
1:s:56:LEU:HD11	1:s:62:GLU:HB2	1.84	0.58
1:u:123:PHE:O	1:u:462:TYR:OH	2.16	0.58
1:w:340:GLN:NE2	1:w:358:VAL:HG22	2.12	0.58
1:y:219:ARG:NH2	1:y:234:ASP:OD1	2.34	0.58
1:z:49:ASN:HD22	1:z:202:PRO:HB3	1.68	0.58
1:B:323:ASN:ND2	1:J:375:ARG:HH21	2.01	0.58
1:J:49:ASN:HD22	1:J:202:PRO:HB3	1.69	0.58
1:M:97:HIS:O	1:M:100:MET:HG2	2.02	0.58
1:M:414:GLN:NE2	1:M:419:THR:O	2.37	0.58
1:M:558:TYR:OH	1:M:576:PRO:O	2.20	0.58
1:N:407:TRP:HB3	1:P:347:THR:HG23	1.85	0.58
1:P:219:ARG:NH2	1:P:234:ASP:OD1	2.34	0.58
1:Q:414:GLN:NE2	1:Q:419:THR:O	2.37	0.58
1:R:407:TRP:HB3	1:S:347:THR:HG23	1.85	0.58
1:S:362:ILE:HD11	1:S:373:SER:HB3	1.84	0.58
1:Y:49:ASN:HD22	1:Y:202:PRO:HB3	1.69	0.58
1:2:49:ASN:HD22	1:2:202:PRO:HB3	1.69	0.58
1:4:340:GLN:NE2	1:4:358:VAL:HG22	2.12	0.58
1:6:323:ASN:ND2	1:b:375:ARG:HH21	2.01	0.58
1:c:347:THR:HG23	1:e:407:TRP:HB3	1.85	0.58
1:g:362:ILE:HD11	1:g:373:SER:HB3	1.83	0.58
1:i:414:GLN:NE2	1:i:419:THR:O	2.37	0.58
1:k:49:ASN:HD22	1:k:202:PRO:HB3	1.69	0.58
1:l:323:ASN:ND2	1:m:375:ARG:HH21	2.01	0.58
1:m:56:LEU:HD11	1:m:62:GLU:HB2	1.83	0.58
1:q:407:TRP:HB3	1:r:347:THR:HG23	1.85	0.58
1:x:362:ILE:HD11	1:x:373:SER:HB3	1.84	0.58
1:y:347:THR:HG23	1:7:407:TRP:HB3	1.85	0.58
1:7:414:GLN:NE2	1:7:419:THR:O	2.37	0.58
1:F:49:ASN:HD22	1:F:202:PRO:HB3	1.69	0.58
1:H:414:GLN:NE2	1:H:419:THR:O	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:414:GLN:NE2	1:I:419:THR:O	2.37	0.58
1:R:375:ARG:HH21	1:U:323:ASN:ND2	2.01	0.58
1:W:542:TRP:HB3	1:Y:246:PHE:HD2	1.68	0.58
1:Z:375:ARG:HH21	1:w:323:ASN:ND2	2.01	0.58
1:4:323:ASN:ND2	1:f:375:ARG:HH21	2.00	0.58
1:d:340:GLN:NE2	1:d:358:VAL:HG22	2.12	0.58
1:d:414:GLN:NE2	1:d:419:THR:O	2.36	0.58
1:p:49:ASN:HD22	1:p:202:PRO:HB3	1.69	0.58
1:t:323:ASN:ND2	1:u:375:ARG:HH21	2.01	0.58
1:t:414:GLN:NE2	1:t:419:THR:O	2.37	0.58
1:u:407:TRP:HB3	1:v:347:THR:HG23	1.85	0.58
1:A:414:GLN:NE2	1:A:419:THR:O	2.37	0.58
1:B:375:ARG:HH21	1:L:323:ASN:ND2	2.01	0.58
1:F:414:GLN:NE2	1:F:419:THR:O	2.36	0.58
1:G:49:ASN:HD22	1:G:202:PRO:HB3	1.69	0.58
1:K:362:ILE:HD11	1:K:373:SER:HB3	1.84	0.58
1:K:585:ASN:HD21	1:1:187:PRO:HA	1.69	0.58
1:M:49:ASN:HD22	1:M:202:PRO:HB3	1.69	0.58
1:Q:56:LEU:HD11	1:Q:62:GLU:HB2	1.83	0.58
1:U:414:GLN:NE2	1:U:419:THR:O	2.37	0.58
1:W:362:ILE:HD11	1:W:373:SER:HB3	1.83	0.58
1:W:414:GLN:NE2	1:W:419:THR:O	2.36	0.58
1:Z:542:TRP:HB3	1:x:246:PHE:HD2	1.68	0.58
1:5:414:GLN:NE2	1:5:419:THR:O	2.37	0.58
1:6:49:ASN:HD22	1:6:202:PRO:HB3	1.69	0.58
1:6:414:GLN:NE2	1:6:419:THR:O	2.37	0.58
1:e:414:GLN:NE2	1:e:419:THR:O	2.37	0.58
1:i:49:ASN:HD22	1:i:202:PRO:HB3	1.69	0.58
1:i:558:TYR:OH	1:i:576:PRO:O	2.20	0.58
1:n:414:GLN:NE2	1:n:419:THR:O	2.37	0.58
1:o:56:LEU:HD11	1:o:62:GLU:HB2	1.83	0.58
1:r:414:GLN:NE2	1:r:419:THR:O	2.37	0.58
1:v:362:ILE:HD11	1:v:373:SER:HB3	1.84	0.58
1:w:457:HIS:CD2	1:w:458:PRO:HD2	2.35	0.58
1:A:246:PHE:HD2	1:I:542:TRP:HB3	1.69	0.58
1:B:585:ASN:HD21	1:J:187:PRO:HA	1.69	0.58
1:G:323:ASN:ND2	1:I:375:ARG:HH21	2.01	0.58
1:J:323:ASN:ND2	1:L:375:ARG:HH21	2.01	0.58
1:J:542:TRP:HB3	1:L:246:PHE:HD2	1.68	0.58
1:V:219:ARG:NH2	1:V:234:ASP:OD1	2.34	0.58
1:W:585:ASN:HD21	1:Y:187:PRO:HA	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:56:LEU:HD11	1:1:62:GLU:HB2	1.83	0.58
1:4:414:GLN:NE2	1:4:419:THR:O	2.37	0.58
1:4:457:HIS:CD2	1:4:458:PRO:HD2	2.35	0.58
1:4:542:TRP:HB3	1:f:246:PHE:HD2	1.69	0.58
1:5:49:ASN:HD22	1:5:202:PRO:HB3	1.69	0.58
1:e:49:ASN:HD22	1:e:202:PRO:HB3	1.68	0.58
1:j:414:GLN:NE2	1:j:419:THR:O	2.37	0.58
1:l:585:ASN:HD21	1:m:187:PRO:HA	1.69	0.58
1:n:375:ARG:HH21	1:p:323:ASN:ND2	2.00	0.58
1:p:414:GLN:NE2	1:p:419:THR:O	2.37	0.58
1:q:49:ASN:HD22	1:q:202:PRO:HB3	1.69	0.58
1:r:542:TRP:HB3	1:s:246:PHE:HD2	1.69	0.58
1:s:414:GLN:NE2	1:s:419:THR:O	2.37	0.58
1:w:246:PHE:HD2	1:x:542:TRP:HB3	1.68	0.58
1:w:414:GLN:NE2	1:w:419:THR:O	2.37	0.58
1:A:375:ARG:HH21	1:I:323:ASN:ND2	2.00	0.58
1:C:414:GLN:NE2	1:C:419:THR:O	2.37	0.58
1:D:375:ARG:HH21	1:P:323:ASN:ND2	2.02	0.58
1:E:414:GLN:NE2	1:E:419:THR:O	2.37	0.58
1:F:375:ARG:HH21	1:Q:323:ASN:ND2	2.01	0.58
1:J:414:GLN:NE2	1:J:419:THR:O	2.37	0.58
1:K:323:ASN:ND2	1:1:375:ARG:HH21	2.02	0.58
1:L:49:ASN:HD22	1:L:202:PRO:HB3	1.69	0.58
1:O:246:PHE:HD2	1:h:542:TRP:HB3	1.69	0.58
1:O:552:ASN:ND2	1:P:241:GLY:H	2.02	0.58
1:T:414:GLN:NE2	1:T:419:THR:O	2.37	0.58
1:X:241:GLY:H	1:6:552:ASN:ND2	2.02	0.58
1:Z:246:PHE:HD2	1:w:542:TRP:HB3	1.69	0.58
1:3:187:PRO:HA	1:j:585:ASN:HD21	1.69	0.58
1:5:552:ASN:ND2	1:b:241:GLY:H	2.02	0.58
1:b:552:ASN:ND2	1:c:241:GLY:H	2.02	0.58
1:e:362:ILE:HD11	1:e:373:SER:HB3	1.84	0.58
1:g:585:ASN:HD21	1:h:187:PRO:HA	1.69	0.58
1:k:375:ARG:HH21	1:m:323:ASN:ND2	2.01	0.58
1:l:414:GLN:NE2	1:l:419:THR:O	2.37	0.58
1:m:49:ASN:HD22	1:m:202:PRO:HB3	1.69	0.58
1:x:414:GLN:NE2	1:x:419:THR:O	2.37	0.58
1:y:323:ASN:ND2	1:z:375:ARG:HH21	2.02	0.58
1:7:457:HIS:CD2	1:7:458:PRO:HD2	2.35	0.58
1:B:414:GLN:NE2	1:B:419:THR:O	2.37	0.58
1:C:585:ASN:HD21	1:2:187:PRO:HA	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:241:GLY:H	1:E:552:ASN:ND2	2.02	0.58
1:E:246:PHE:HD2	1:F:542:TRP:HB3	1.69	0.58
1:E:375:ARG:HH21	1:F:323:ASN:ND2	2.01	0.58
1:J:585:ASN:HD21	1:L:187:PRO:HA	1.69	0.58
1:N:457:HIS:CD2	1:N:458:PRO:HD2	2.35	0.58
1:P:552:ASN:ND2	1:Q:241:GLY:H	2.02	0.58
1:R:241:GLY:H	1:V:552:ASN:ND2	2.02	0.58
1:T:347:THR:HG23	1:f:407:TRP:HB3	1.85	0.58
1:U:552:ASN:ND2	1:5:241:GLY:H	2.02	0.58
1:V:49:ASN:HD22	1:V:202:PRO:HB3	1.69	0.58
1:Z:241:GLY:H	1:1:552:ASN:ND2	2.02	0.58
1:1:542:TRP:HB3	1:8:246:PHE:HD2	1.69	0.58
1:a:219:ARG:NH2	1:a:234:ASP:OD1	2.34	0.58
1:a:552:ASN:ND2	1:u:241:GLY:H	2.02	0.58
1:d:407:TRP:HB3	1:e:347:THR:HG23	1.86	0.58
1:i:407:TRP:HB3	1:j:347:THR:HG23	1.85	0.58
1:k:246:PHE:HD2	1:m:542:TRP:HB3	1.68	0.58
1:k:347:THR:HG23	1:m:407:TRP:HB3	1.85	0.58
1:k:585:ASN:HD21	1:l:187:PRO:HA	1.69	0.58
1:n:246:PHE:HD2	1:p:542:TRP:HB3	1.69	0.58
1:n:585:ASN:HD21	1:o:187:PRO:HA	1.69	0.58
1:t:542:TRP:HB3	1:u:246:PHE:HD2	1.68	0.58
1:y:241:GLY:H	1:8:552:ASN:ND2	2.02	0.58
1:y:585:ASN:HD21	1:z:187:PRO:HA	1.69	0.58
1:B:246:PHE:HD2	1:L:542:TRP:HB3	1.68	0.58
1:B:347:THR:HG23	1:L:407:TRP:HB3	1.85	0.58
1:C:246:PHE:HD2	1:M:542:TRP:HB3	1.69	0.58
1:D:187:PRO:HA	1:P:585:ASN:HD21	1.69	0.58
1:I:552:ASN:ND2	1:J:241:GLY:H	2.02	0.58
1:M:246:PHE:HD2	1:2:542:TRP:HB3	1.69	0.58
1:O:407:TRP:HB3	1:g:347:THR:HG23	1.85	0.58
1:R:49:ASN:HD22	1:R:202:PRO:HB3	1.69	0.58
1:V:241:GLY:H	1:W:552:ASN:ND2	2.02	0.58
1:W:49:ASN:HD22	1:W:202:PRO:HB3	1.69	0.58
1:X:187:PRO:HA	1:5:585:ASN:HD21	1.69	0.58
1:Z:414:GLN:NE2	1:Z:419:THR:O	2.37	0.58
1:6:241:GLY:H	1:t:552:ASN:ND2	2.02	0.58
1:a:49:ASN:HD22	1:a:202:PRO:HB3	1.69	0.58
1:d:585:ASN:HD21	1:e:187:PRO:HA	1.69	0.58
1:f:414:GLN:NE2	1:f:419:THR:O	2.37	0.58
1:h:49:ASN:HD22	1:h:202:PRO:HB3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:56:LEU:HD11	1:h:62:GLU:HB2	1.84	0.58
1:k:414:GLN:NE2	1:k:419:THR:O	2.37	0.58
1:n:542:TRP:HB3	1:o:246:PHE:HD2	1.69	0.58
1:q:347:THR:HG23	1:s:407:TRP:HB3	1.85	0.58
1:r:49:ASN:HD22	1:r:202:PRO:HB3	1.69	0.58
1:v:414:GLN:NE2	1:v:419:THR:O	2.37	0.58
1:y:407:TRP:HB3	1:z:347:THR:HG23	1.86	0.58
1:C:187:PRO:HA	1:M:585:ASN:HD21	1.69	0.58
1:C:347:THR:HG23	1:M:407:TRP:HB3	1.85	0.58
1:D:347:THR:HG23	1:P:407:TRP:HB3	1.86	0.58
1:D:542:TRP:HB3	1:N:246:PHE:HD2	1.69	0.58
1:E:542:TRP:HB3	1:Q:246:PHE:HD2	1.69	0.58
1:F:246:PHE:HD2	1:Q:542:TRP:HB3	1.69	0.58
1:I:49:ASN:HD22	1:I:202:PRO:HB3	1.69	0.58
1:J:123:PHE:O	1:J:462:TYR:OH	2.16	0.58
1:R:246:PHE:HD2	1:U:542:TRP:HB3	1.68	0.58
1:S:414:GLN:NE2	1:S:419:THR:O	2.37	0.58
1:S:585:ASN:HD21	1:U:187:PRO:HA	1.69	0.58
1:T:246:PHE:HD2	1:f:542:TRP:HB3	1.69	0.58
1:W:323:ASN:ND2	1:Y:375:ARG:HH21	2.02	0.58
1:1:49:ASN:HD22	1:1:202:PRO:HB3	1.69	0.58
1:6:585:ASN:HD21	1:b:187:PRO:HA	1.69	0.58
1:c:187:PRO:HA	1:e:585:ASN:HD21	1.69	0.58
1:c:246:PHE:HD2	1:e:542:TRP:HB3	1.69	0.58
1:e:241:GLY:H	1:q:552:ASN:ND2	2.02	0.58
1:f:241:GLY:H	1:h:552:ASN:ND2	2.02	0.58
1:g:219:ARG:NH2	1:g:234:ASP:OD1	2.34	0.58
1:i:542:TRP:HB3	1:j:246:PHE:HD2	1.69	0.58
1:i:585:ASN:HD21	1:j:187:PRO:HA	1.69	0.58
1:l:123:PHE:O	1:l:462:TYR:OH	2.16	0.58
1:l:241:GLY:H	1:r:552:ASN:ND2	2.02	0.58
1:l:542:TRP:HB3	1:m:246:PHE:HD2	1.69	0.58
1:o:241:GLY:H	1:y:552:ASN:ND2	2.02	0.58
1:o:323:ASN:ND2	1:p:375:ARG:HH21	2.01	0.58
1:q:246:PHE:HD2	1:s:542:TRP:HB3	1.69	0.58
1:r:323:ASN:ND2	1:s:375:ARG:HH21	2.01	0.58
1:t:187:PRO:HA	1:v:585:ASN:HD21	1.69	0.58
1:A:407:TRP:HB3	1:G:347:THR:HG23	1.85	0.57
1:F:552:ASN:ND2	1:G:241:GLY:H	2.02	0.57
1:M:347:THR:HG23	1:2:407:TRP:HB3	1.85	0.57
1:O:414:GLN:NE2	1:O:419:THR:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:585:ASN:HD21	1:S:187:PRO:HA	1.69	0.57
1:3:542:TRP:HB3	1:i:246:PHE:HD2	1.69	0.57
1:6:187:PRO:HA	1:a:585:ASN:HD21	1.69	0.57
1:i:133:ASN:HB3	1:i:547:GLN:HE22	1.69	0.57
1:k:187:PRO:HA	1:m:585:ASN:HD21	1.69	0.57
1:n:49:ASN:HD22	1:n:202:PRO:HB3	1.69	0.57
1:n:552:ASN:ND2	1:z:241:GLY:H	2.02	0.57
1:o:542:TRP:HB3	1:p:246:PHE:HD2	1.69	0.57
1:p:552:ASN:ND2	1:q:241:GLY:H	2.02	0.57
1:q:323:ASN:ND2	1:r:375:ARG:HH21	2.01	0.57
1:u:49:ASN:HD22	1:u:202:PRO:HB3	1.69	0.57
1:8:414:GLN:NE2	1:8:419:THR:O	2.37	0.57
1:A:542:TRP:HB3	1:G:246:PHE:HD2	1.69	0.57
1:B:187:PRO:HA	1:L:585:ASN:HD21	1.69	0.57
1:E:49:ASN:HD22	1:E:202:PRO:HB3	1.69	0.57
1:E:585:ASN:HD21	1:Q:187:PRO:HA	1.69	0.57
1:G:414:GLN:NE2	1:G:419:THR:O	2.37	0.57
1:J:133:ASN:HB3	1:J:547:GLN:HE22	1.70	0.57
1:K:219:ARG:NH2	1:K:234:ASP:OD1	2.34	0.57
1:K:407:TRP:HB3	1:1:347:THR:HG23	1.85	0.57
1:M:133:ASN:HB3	1:M:547:GLN:HE22	1.70	0.57
1:M:375:ARG:HH21	1:2:323:ASN:ND2	2.01	0.57
1:T:542:TRP:HB3	1:4:246:PHE:HD2	1.69	0.57
1:3:407:TRP:HB3	1:i:347:THR:HG23	1.85	0.57
1:f:49:ASN:HD22	1:f:202:PRO:HB3	1.68	0.57
1:l:133:ASN:HB3	1:l:547:GLN:HE22	1.70	0.57
1:u:414:GLN:NE2	1:u:419:THR:O	2.37	0.57
1:u:542:TRP:HB3	1:v:246:PHE:HD2	1.68	0.57
1:z:542:TRP:HB3	1:7:246:PHE:HD2	1.69	0.57
1:A:187:PRO:HA	1:I:585:ASN:HD21	1.69	0.57
1:D:414:GLN:NE2	1:D:419:THR:O	2.37	0.57
1:E:133:ASN:HB3	1:E:547:GLN:HE22	1.70	0.57
1:F:133:ASN:HB3	1:F:547:GLN:HE22	1.70	0.57
1:O:542:TRP:HB3	1:g:246:PHE:HD2	1.69	0.57
1:R:542:TRP:HB3	1:S:246:PHE:HD2	1.68	0.57
1:T:49:ASN:HD22	1:T:202:PRO:HB3	1.69	0.57
1:V:187:PRO:HA	1:X:585:ASN:HD21	1.69	0.57
1:V:246:PHE:HD2	1:X:542:TRP:HB3	1.69	0.57
1:V:585:ASN:HD21	1:5:187:PRO:HA	1.69	0.57
1:Y:414:GLN:NE2	1:Y:419:THR:O	2.37	0.57
1:Z:187:PRO:HA	1:w:585:ASN:HD21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:323:ASN:ND2	1:i:375:ARG:HH21	2.01	0.57
1:3:347:THR:HG23	1:j:407:TRP:HB3	1.84	0.57
1:a:241:GLY:H	1:e:552:ASN:ND2	2.03	0.57
1:a:246:PHE:HD2	1:b:542:TRP:HB3	1.69	0.57
1:f:340:GLN:NE2	1:f:358:VAL:HG22	2.11	0.57
1:n:407:TRP:HB3	1:o:347:THR:HG23	1.85	0.57
1:t:375:ARG:HH21	1:v:323:ASN:ND2	2.01	0.57
1:u:585:ASN:HD21	1:v:187:PRO:HA	1.69	0.57
1:x:49:ASN:HD22	1:x:202:PRO:HB3	1.69	0.57
1:A:241:GLY:H	1:B:552:ASN:ND2	2.02	0.57
1:C:241:GLY:H	1:D:552:ASN:ND2	2.03	0.57
1:C:407:TRP:HB3	1:2:347:THR:HG23	1.84	0.57
1:E:407:TRP:HB3	1:Q:347:THR:HG23	1.85	0.57
1:F:187:PRO:HA	1:Q:585:ASN:HD21	1.69	0.57
1:G:585:ASN:HD21	1:I:187:PRO:HA	1.69	0.57
1:H:133:ASN:HB3	1:H:547:GLN:HE22	1.70	0.57
1:P:49:ASN:HD22	1:P:202:PRO:HB3	1.69	0.57
1:Q:133:ASN:HB3	1:Q:547:GLN:HE22	1.69	0.57
1:R:414:GLN:NE2	1:R:419:THR:O	2.37	0.57
1:S:323:ASN:ND2	1:U:375:ARG:HH21	2.01	0.57
1:U:340:GLN:NE2	1:U:358:VAL:HG22	2.12	0.57
1:X:191:ALA:HA	1:5:290:GLN:OE1	2.05	0.57
1:Z:340:GLN:NE2	1:Z:358:VAL:HG22	2.12	0.57
1:Z:585:ASN:HD21	1:x:187:PRO:HA	1.69	0.57
1:6:347:THR:HG23	1:a:407:TRP:HB3	1.84	0.57
1:a:187:PRO:HA	1:b:585:ASN:HD21	1.69	0.57
1:c:375:ARG:HH21	1:e:323:ASN:ND2	2.02	0.57
1:g:49:ASN:HD22	1:g:202:PRO:HB3	1.68	0.57
1:n:133:ASN:HB3	1:n:547:GLN:HE22	1.70	0.57
1:o:133:ASN:HB3	1:o:547:GLN:HE22	1.70	0.57
1:o:585:ASN:HD21	1:p:187:PRO:HA	1.69	0.57
1:p:133:ASN:HB3	1:p:547:GLN:HE22	1.70	0.57
1:q:414:GLN:NE2	1:q:419:THR:O	2.37	0.57
1:q:585:ASN:HD21	1:r:187:PRO:HA	1.69	0.57
1:8:49:ASN:HD22	1:8:202:PRO:HB3	1.69	0.57
1:L:133:ASN:HB3	1:L:547:GLN:HE22	1.69	0.57
1:S:542:TRP:HB3	1:U:246:PHE:HD2	1.68	0.57
1:T:585:ASN:HD21	1:4:187:PRO:HA	1.69	0.57
1:V:542:TRP:HB3	1:5:246:PHE:HD2	1.68	0.57
1:c:414:GLN:NE2	1:c:419:THR:O	2.37	0.57
1:d:133:ASN:HB3	1:d:547:GLN:HE22	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:542:TRP:HB3	1:h:246:PHE:HD2	1.69	0.57
1:k:552:ASN:ND2	1:s:241:GLY:H	2.02	0.57
1:l:407:TRP:HB3	1:m:347:THR:HG23	1.85	0.57
1:q:542:TRP:HB3	1:r:246:PHE:HD2	1.69	0.57
1:v:552:ASN:ND2	1:w:241:GLY:H	2.02	0.57
1:w:187:PRO:HA	1:x:585:ASN:HD21	1.69	0.57
1:z:414:GLN:NE2	1:z:419:THR:O	2.37	0.57
1:A:133:ASN:HB3	1:A:547:GLN:HE22	1.70	0.57
1:F:340:GLN:NE2	1:F:358:VAL:HG22	2.12	0.57
1:G:290:GLN:OE1	1:I:191:ALA:HA	2.05	0.57
1:J:407:TRP:HB3	1:L:347:THR:HG23	1.85	0.57
1:K:49:ASN:HD22	1:K:202:PRO:HB3	1.68	0.57
1:O:49:ASN:HD22	1:O:202:PRO:HB3	1.69	0.57
1:O:347:THR:HG23	1:h:407:TRP:HB3	1.85	0.57
1:S:552:ASN:ND2	1:4:241:GLY:H	2.02	0.57
1:T:133:ASN:HB3	1:T:547:GLN:HE22	1.69	0.57
1:V:407:TRP:HB3	1:5:347:THR:HG23	1.84	0.57
1:Z:49:ASN:HD22	1:Z:202:PRO:HB3	1.69	0.57
1:Z:290:GLN:OE1	1:x:191:ALA:HA	2.05	0.57
1:1:407:TRP:HB3	1:8:347:THR:HG23	1.85	0.57
1:6:290:GLN:OE1	1:b:191:ALA:HA	2.05	0.57
1:d:552:ASN:ND2	1:r:241:GLY:H	2.02	0.57
1:g:364:GLN:HB2	1:g:407:TRP:CZ3	2.39	0.57
1:s:49:ASN:HD22	1:s:202:PRO:HB3	1.69	0.57
1:s:133:ASN:HB3	1:s:547:GLN:HE22	1.69	0.57
1:y:414:GLN:NE2	1:y:419:THR:O	2.37	0.57
1:z:323:ASN:ND2	1:7:375:ARG:HH21	2.02	0.57
1:D:323:ASN:ND2	1:N:375:ARG:HH21	2.02	0.57
1:D:585:ASN:HD21	1:N:187:PRO:HA	1.69	0.57
1:H:552:ASN:ND2	1:I:241:GLY:H	2.02	0.57
1:K:364:GLN:HB2	1:K:407:TRP:CZ3	2.39	0.57
1:K:542:TRP:HB3	1:1:246:PHE:HD2	1.68	0.57
1:P:414:GLN:NE2	1:P:419:THR:O	2.36	0.57
1:Q:558:TYR:OH	1:Q:576:PRO:O	2.20	0.57
1:Z:191:ALA:HA	1:w:290:GLN:OE1	2.05	0.57
1:3:585:ASN:HD21	1:i:187:PRO:HA	1.69	0.57
1:c:290:GLN:OE1	1:d:191:ALA:HA	2.05	0.57
1:f:364:GLN:HB2	1:f:407:TRP:CZ3	2.39	0.57
1:j:49:ASN:HD22	1:j:202:PRO:HB3	1.68	0.57
1:j:241:GLY:H	1:z:552:ASN:ND2	2.03	0.57
1:n:191:ALA:HA	1:p:290:GLN:OE1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:552:ASN:ND2	1:v:241:GLY:H	2.02	0.57
1:p:340:GLN:NE2	1:p:358:VAL:HG22	2.12	0.57
1:r:585:ASN:HD21	1:s:187:PRO:HA	1.69	0.57
1:w:49:ASN:HD22	1:w:202:PRO:HB3	1.69	0.57
1:y:49:ASN:HD22	1:y:202:PRO:HB3	1.69	0.57
1:y:246:PHE:HD2	1:7:542:TRP:HB3	1.69	0.57
1:z:585:ASN:HD21	1:7:187:PRO:HA	1.69	0.57
1:A:290:GLN:OE1	1:G:191:ALA:HA	2.05	0.57
1:D:133:ASN:HB3	1:D:547:GLN:HE22	1.70	0.57
1:H:241:GLY:H	1:Z:552:ASN:ND2	2.02	0.57
1:M:187:PRO:HA	1:2:585:ASN:HD21	1.69	0.57
1:N:542:TRP:HB3	1:P:246:PHE:HD2	1.69	0.57
1:S:49:ASN:HD22	1:S:202:PRO:HB3	1.69	0.57
1:U:49:ASN:HD22	1:U:202:PRO:HB3	1.69	0.57
1:Z:364:GLN:HB2	1:Z:407:TRP:CZ3	2.39	0.57
1:4:49:ASN:HD22	1:4:202:PRO:HB3	1.69	0.57
1:d:558:TYR:OH	1:d:576:PRO:O	2.20	0.57
1:q:191:ALA:HA	1:s:290:GLN:OE1	2.05	0.57
1:t:49:ASN:HD22	1:t:202:PRO:HB3	1.69	0.57
1:t:246:PHE:HD2	1:v:542:TRP:HB3	1.69	0.57
1:t:340:GLN:NE2	1:t:358:VAL:HG22	2.12	0.57
1:t:407:TRP:HB3	1:u:347:THR:HG23	1.85	0.57
1:v:133:ASN:HB3	1:v:547:GLN:HE22	1.70	0.57
1:A:49:ASN:HD22	1:A:202:PRO:HB3	1.69	0.57
1:C:49:ASN:HD22	1:C:202:PRO:HB3	1.68	0.57
1:D:407:TRP:HB3	1:N:347:THR:HG23	1.86	0.57
1:E:187:PRO:HA	1:F:585:ASN:HD21	1.69	0.57
1:E:191:ALA:HA	1:F:290:GLN:OE1	2.05	0.57
1:M:364:GLN:HB2	1:M:407:TRP:CZ3	2.39	0.57
1:O:290:GLN:OE1	1:g:191:ALA:HA	2.05	0.57
1:Q:49:ASN:HD22	1:Q:202:PRO:HB3	1.68	0.57
1:Q:552:ASN:ND2	1:S:241:GLY:H	2.02	0.57
1:S:133:ASN:HB3	1:S:547:GLN:HE22	1.70	0.57
1:T:187:PRO:HA	1:f:585:ASN:HD21	1.69	0.57
1:U:364:GLN:HB2	1:U:407:TRP:CZ3	2.39	0.57
1:V:191:ALA:HA	1:X:290:GLN:OE1	2.05	0.57
1:W:290:GLN:OE1	1:Y:191:ALA:HA	2.05	0.57
1:2:414:GLN:NE2	1:2:419:THR:O	2.36	0.57
1:3:414:GLN:NE2	1:3:419:THR:O	2.37	0.57
1:4:585:ASN:HD21	1:f:187:PRO:HA	1.69	0.57
1:5:364:GLN:HB2	1:5:407:TRP:CZ3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:246:PHE:HD2	1:a:542:TRP:HB3	1.69	0.57
1:a:191:ALA:HA	1:b:290:GLN:OE1	2.05	0.57
1:c:542:TRP:HB3	1:d:246:PHE:HD2	1.69	0.57
1:m:133:ASN:HB3	1:m:547:GLN:HE22	1.70	0.57
1:t:364:GLN:HB2	1:t:407:TRP:CZ3	2.39	0.57
1:v:49:ASN:HD22	1:v:202:PRO:HB3	1.69	0.57
1:x:133:ASN:HB3	1:x:547:GLN:HE22	1.70	0.57
1:z:133:ASN:HB3	1:z:547:GLN:HE22	1.70	0.57
1:A:585:ASN:HD21	1:G:187:PRO:HA	1.69	0.57
1:B:191:ALA:HA	1:L:290:GLN:OE1	2.05	0.57
1:H:347:THR:HG23	1:Y:407:TRP:HB3	1.85	0.57
1:K:241:GLY:H	1:7:552:ASN:ND2	2.02	0.57
1:N:585:ASN:HD21	1:P:187:PRO:HA	1.69	0.57
1:R:347:THR:HG23	1:U:407:TRP:HB3	1.85	0.57
1:T:241:GLY:H	1:c:552:ASN:ND2	2.02	0.57
1:Z:133:ASN:HB3	1:Z:547:GLN:HE22	1.69	0.57
1:1:133:ASN:HB3	1:1:547:GLN:HE22	1.69	0.57
1:6:364:GLN:HB2	1:6:407:TRP:CZ3	2.39	0.57
1:c:407:TRP:HB3	1:d:347:THR:HG23	1.85	0.57
1:k:191:ALA:HA	1:m:290:GLN:OE1	2.05	0.57
1:k:219:ARG:NH2	1:k:234:ASP:OD1	2.34	0.57
1:n:187:PRO:HA	1:p:585:ASN:HD21	1.69	0.57
1:n:375:ARG:HH11	1:n:396:THR:HG1	1.51	0.57
1:o:219:ARG:NH2	1:o:234:ASP:OD1	2.34	0.57
1:r:133:ASN:HB3	1:r:547:GLN:HE22	1.69	0.57
1:s:219:ARG:NH2	1:s:234:ASP:OD1	2.34	0.57
1:u:290:GLN:OE1	1:v:191:ALA:HA	2.05	0.57
1:y:187:PRO:HA	1:7:585:ASN:HD21	1.69	0.57
1:y:542:TRP:HB3	1:z:246:PHE:HD2	1.70	0.57
1:z:407:TRP:HB3	1:7:347:THR:HG23	1.86	0.57
1:G:542:TRP:HB3	1:I:246:PHE:HD2	1.69	0.56
1:H:375:ARG:HH21	1:Y:323:ASN:HD21	1.51	0.56
1:H:558:TYR:OH	1:H:576:PRO:O	2.20	0.56
1:H:585:ASN:HD21	1:W:187:PRO:HA	1.70	0.56
1:R:191:ALA:HA	1:U:290:GLN:OE1	2.05	0.56
1:S:219:ARG:NH2	1:S:234:ASP:OD1	2.34	0.56
1:S:290:GLN:OE1	1:U:191:ALA:HA	2.05	0.56
1:T:191:ALA:HA	1:f:290:GLN:OE1	2.05	0.56
1:T:290:GLN:OE1	1:4:191:ALA:HA	2.05	0.56
1:U:133:ASN:HB3	1:U:547:GLN:HE22	1.70	0.56
1:V:133:ASN:HB3	1:V:547:GLN:HE22	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:246:PHE:HD2	1:j:542:TRP:HB3	1.68	0.56
1:4:290:GLN:OE1	1:f:191:ALA:HA	2.05	0.56
1:i:364:GLN:HB2	1:i:407:TRP:CZ3	2.39	0.56
1:i:552:ASN:ND2	1:7:241:GLY:H	2.02	0.56
1:q:187:PRO:HA	1:s:585:ASN:HD21	1.69	0.56
1:s:364:GLN:HB2	1:s:407:TRP:CZ3	2.39	0.56
1:t:290:GLN:OE1	1:u:191:ALA:HA	2.05	0.56
1:y:290:GLN:OE1	1:z:191:ALA:HA	2.05	0.56
1:B:219:ARG:NH2	1:B:234:ASP:OD1	2.34	0.56
1:C:542:TRP:HB3	1:2:246:PHE:HD2	1.68	0.56
1:D:191:ALA:HA	1:P:290:GLN:OE1	2.05	0.56
1:D:246:PHE:HD2	1:P:542:TRP:HB3	1.70	0.56
1:H:542:TRP:HB3	1:W:246:PHE:HD2	1.68	0.56
1:I:133:ASN:HB3	1:I:547:GLN:HE22	1.69	0.56
1:J:552:ASN:ND2	1:1:241:GLY:H	2.02	0.56
1:K:347:THR:HG23	1:8:407:TRP:HB3	1.86	0.56
1:N:133:ASN:HB3	1:N:547:GLN:HE22	1.69	0.56
1:N:323:ASN:ND2	1:P:375:ARG:HH21	2.01	0.56
1:R:290:GLN:OE1	1:S:191:ALA:HA	2.05	0.56
1:1:290:GLN:OE1	1:8:191:ALA:HA	2.05	0.56
1:b:133:ASN:HB3	1:b:547:GLN:HE22	1.69	0.56
1:c:585:ASN:HD21	1:d:187:PRO:HA	1.69	0.56
1:d:241:GLY:H	1:f:552:ASN:ND2	2.02	0.56
1:f:133:ASN:HB3	1:f:547:GLN:HE22	1.70	0.56
1:h:133:ASN:HB3	1:h:547:GLN:HE22	1.70	0.56
1:h:241:GLY:H	1:l:552:ASN:ND2	2.02	0.56
1:q:290:GLN:OE1	1:r:191:ALA:HA	2.05	0.56
1:t:191:ALA:HA	1:v:290:GLN:OE1	2.05	0.56
1:v:219:ARG:NH2	1:v:234:ASP:OD1	2.34	0.56
1:w:191:ALA:HA	1:x:290:GLN:OE1	2.05	0.56
1:7:133:ASN:HB3	1:7:547:GLN:HE22	1.69	0.56
1:A:219:ARG:NH2	1:A:234:ASP:OD1	2.34	0.56
1:A:364:GLN:HB2	1:A:407:TRP:CZ3	2.39	0.56
1:B:49:ASN:ND2	1:B:202:PRO:HB3	2.21	0.56
1:B:133:ASN:HB3	1:B:547:GLN:HE22	1.70	0.56
1:G:49:ASN:ND2	1:G:202:PRO:HB3	2.21	0.56
1:G:552:ASN:ND2	1:W:241:GLY:H	2.03	0.56
1:K:191:ALA:HA	1:8:290:GLN:OE1	2.06	0.56
1:M:552:ASN:ND2	1:N:241:GLY:H	2.02	0.56
1:N:49:ASN:HD22	1:N:202:PRO:HB3	1.69	0.56
1:O:191:ALA:HA	1:h:290:GLN:OE1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:585:ASN:HD21	1:g:187:PRO:HA	1.69	0.56
1:Q:49:ASN:ND2	1:Q:202:PRO:HB3	2.21	0.56
1:Q:219:ARG:NH2	1:Q:234:ASP:OD1	2.34	0.56
1:R:133:ASN:HB3	1:R:547:GLN:HE22	1.69	0.56
1:R:187:PRO:HA	1:U:585:ASN:HD21	1.69	0.56
1:T:552:ASN:ND2	1:U:241:GLY:H	2.02	0.56
1:W:133:ASN:HB3	1:W:547:GLN:HE22	1.70	0.56
1:X:49:ASN:ND2	1:X:202:PRO:HB3	2.21	0.56
1:X:552:ASN:ND2	1:Y:241:GLY:H	2.04	0.56
1:3:323:ASN:HD21	1:i:375:ARG:HH21	1.54	0.56
1:4:49:ASN:ND2	1:4:202:PRO:HB3	2.21	0.56
1:4:139:ASN:HB2	1:4:275:PRO:HB3	1.88	0.56
1:6:542:TRP:HB3	1:b:246:PHE:HD2	1.69	0.56
1:a:133:ASN:HB3	1:a:547:GLN:HE22	1.70	0.56
1:b:49:ASN:ND2	1:b:202:PRO:HB3	2.21	0.56
1:e:133:ASN:HB3	1:e:547:GLN:HE22	1.70	0.56
1:g:290:GLN:OE1	1:h:191:ALA:HA	2.05	0.56
1:j:469:ASP:OD1	1:j:470:LYS:N	2.39	0.56
1:k:49:ASN:ND2	1:k:202:PRO:HB3	2.21	0.56
1:k:133:ASN:HB3	1:k:547:GLN:HE22	1.70	0.56
1:o:49:ASN:HD22	1:o:202:PRO:HB3	1.69	0.56
1:o:139:ASN:HB2	1:o:275:PRO:HB3	1.88	0.56
1:t:133:ASN:HB3	1:t:547:GLN:HE22	1.70	0.56
1:t:585:ASN:HD21	1:u:187:PRO:HA	1.69	0.56
1:u:133:ASN:HB3	1:u:547:GLN:HE22	1.69	0.56
1:w:49:ASN:ND2	1:w:202:PRO:HB3	2.21	0.56
1:w:139:ASN:HB2	1:w:275:PRO:HB3	1.88	0.56
1:7:139:ASN:HB2	1:7:275:PRO:HB3	1.88	0.56
1:C:49:ASN:ND2	1:C:202:PRO:HB3	2.21	0.56
1:D:139:ASN:HB2	1:D:275:PRO:HB3	1.88	0.56
1:H:323:ASN:ND2	1:W:375:ARG:HH21	2.03	0.56
1:Q:139:ASN:HB2	1:Q:275:PRO:HB3	1.88	0.56
1:R:49:ASN:ND2	1:R:202:PRO:HB3	2.21	0.56
1:V:49:ASN:ND2	1:V:202:PRO:HB3	2.21	0.56
1:X:246:PHE:HD2	1:5:542:TRP:HB3	1.69	0.56
1:3:469:ASP:OD1	1:3:470:LYS:N	2.39	0.56
1:5:469:ASP:OD1	1:5:470:LYS:N	2.39	0.56
1:6:191:ALA:HA	1:a:290:GLN:OE1	2.05	0.56
1:b:364:GLN:HB2	1:b:407:TRP:CZ3	2.39	0.56
1:g:49:ASN:ND2	1:g:202:PRO:HB3	2.21	0.56
1:h:364:GLN:HB2	1:h:407:TRP:CZ3	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:49:ASN:ND2	1:j:202:PRO:HB3	2.21	0.56
1:l:139:ASN:HB2	1:l:275:PRO:HB3	1.88	0.56
1:o:290:GLN:OE1	1:p:191:ALA:HA	2.05	0.56
1:q:49:ASN:ND2	1:q:202:PRO:HB3	2.21	0.56
1:z:139:ASN:HB2	1:z:275:PRO:HB3	1.88	0.56
1:A:552:ASN:ND2	1:E:241:GLY:H	2.02	0.56
1:C:469:ASP:OD1	1:C:470:LYS:N	2.39	0.56
1:E:49:ASN:ND2	1:E:202:PRO:HB3	2.21	0.56
1:H:407:TRP:HB3	1:W:347:THR:HG23	1.87	0.56
1:I:469:ASP:OD1	1:I:470:LYS:N	2.39	0.56
1:J:139:ASN:HB2	1:J:275:PRO:HB3	1.88	0.56
1:K:49:ASN:ND2	1:K:202:PRO:HB3	2.21	0.56
1:M:375:ARG:HH21	1:2:323:ASN:HD21	1.54	0.56
1:N:139:ASN:HB2	1:N:275:PRO:HB3	1.88	0.56
1:U:558:TYR:OH	1:U:576:PRO:O	2.20	0.56
1:X:133:ASN:HB3	1:X:547:GLN:HE22	1.70	0.56
1:X:364:GLN:HB2	1:X:407:TRP:CZ3	2.39	0.56
1:X:375:ARG:HH21	1:5:323:ASN:HD21	1.54	0.56
1:Z:469:ASP:OD1	1:Z:470:LYS:N	2.39	0.56
1:2:139:ASN:HB2	1:2:275:PRO:HB3	1.88	0.56
1:2:469:ASP:OD1	1:2:470:LYS:N	2.39	0.56
1:3:49:ASN:ND2	1:3:202:PRO:HB3	2.21	0.56
1:3:139:ASN:HB2	1:3:275:PRO:HB3	1.88	0.56
1:3:191:ALA:HA	1:j:290:GLN:OE1	2.05	0.56
1:3:241:GLY:H	1:m:552:ASN:ND2	2.02	0.56
1:3:290:GLN:OE1	1:i:191:ALA:HA	2.05	0.56
1:6:139:ASN:HB2	1:6:275:PRO:HB3	1.88	0.56
1:6:469:ASP:OD1	1:6:470:LYS:N	2.39	0.56
1:a:49:ASN:ND2	1:a:202:PRO:HB3	2.21	0.56
1:c:191:ALA:HA	1:e:290:GLN:OE1	2.06	0.56
1:f:49:ASN:ND2	1:f:202:PRO:HB3	2.21	0.56
1:f:469:ASP:OD1	1:f:470:LYS:N	2.39	0.56
1:g:323:ASN:HD21	1:h:375:ARG:HH21	1.54	0.56
1:i:290:GLN:OE1	1:j:191:ALA:HA	2.05	0.56
1:q:133:ASN:HB3	1:q:547:GLN:HE22	1.70	0.56
1:r:469:ASP:OD1	1:r:470:LYS:N	2.39	0.56
1:u:49:ASN:ND2	1:u:202:PRO:HB3	2.21	0.56
1:y:375:ARG:HH21	1:7:323:ASN:ND2	2.01	0.56
1:z:219:ARG:NH2	1:z:234:ASP:OD1	2.34	0.56
1:7:49:ASN:HD22	1:7:202:PRO:HB3	1.69	0.56
1:8:49:ASN:ND2	1:8:202:PRO:HB3	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:191:ALA:HA	1:I:290:GLN:OE1	2.04	0.56
1:C:191:ALA:HA	1:M:290:GLN:OE1	2.05	0.56
1:D:219:ARG:NH2	1:D:234:ASP:OD1	2.34	0.56
1:E:290:GLN:OE1	1:Q:191:ALA:HA	2.05	0.56
1:F:191:ALA:HA	1:Q:290:GLN:OE1	2.05	0.56
1:G:133:ASN:HB3	1:G:547:GLN:HE22	1.70	0.56
1:H:49:ASN:ND2	1:H:202:PRO:HB3	2.21	0.56
1:K:133:ASN:HB3	1:K:547:GLN:HE22	1.70	0.56
1:K:469:ASP:OD1	1:K:470:LYS:N	2.39	0.56
1:M:191:ALA:HA	1:2:290:GLN:OE1	2.05	0.56
1:N:552:ASN:ND2	1:g:241:GLY:H	2.02	0.56
1:O:49:ASN:ND2	1:O:202:PRO:HB3	2.21	0.56
1:Z:49:ASN:ND2	1:Z:202:PRO:HB3	2.21	0.56
1:1:585:ASN:HD21	1:8:187:PRO:HA	1.69	0.56
1:2:49:ASN:ND2	1:2:202:PRO:HB3	2.21	0.56
1:5:139:ASN:HB2	1:5:275:PRO:HB3	1.88	0.56
1:a:469:ASP:OD1	1:a:470:LYS:N	2.39	0.56
1:d:49:ASN:ND2	1:d:202:PRO:HB3	2.21	0.56
1:g:133:ASN:HB3	1:g:547:GLN:HE22	1.69	0.56
1:g:469:ASP:OD1	1:g:470:LYS:N	2.39	0.56
1:l:49:ASN:ND2	1:l:202:PRO:HB3	2.21	0.56
1:n:241:GLY:H	1:s:552:ASN:ND2	2.02	0.56
1:o:49:ASN:ND2	1:o:202:PRO:HB3	2.21	0.56
1:p:469:ASP:OD1	1:p:470:LYS:N	2.39	0.56
1:x:49:ASN:ND2	1:x:202:PRO:HB3	2.21	0.56
1:B:178:VAL:HG22	1:B:498:VAL:HG12	1.88	0.56
1:C:133:ASN:HB3	1:C:547:GLN:HE22	1.70	0.56
1:C:290:GLN:OE1	1:2:191:ALA:HA	2.05	0.56
1:F:469:ASP:OD1	1:F:470:LYS:N	2.39	0.56
1:K:246:PHE:HD2	1:8:542:TRP:HB3	1.70	0.56
1:L:552:ASN:ND2	1:2:241:GLY:H	2.02	0.56
1:O:133:ASN:HB3	1:O:547:GLN:HE22	1.70	0.56
1:O:187:PRO:HA	1:h:585:ASN:HD21	1.69	0.56
1:P:133:ASN:HB3	1:P:547:GLN:HE22	1.70	0.56
1:T:49:ASN:ND2	1:T:202:PRO:HB3	2.21	0.56
1:V:290:GLN:OE1	1:5:191:ALA:HA	2.05	0.56
1:V:469:ASP:OD1	1:V:470:LYS:N	2.39	0.56
1:Z:178:VAL:HG22	1:Z:498:VAL:HG12	1.88	0.56
1:1:364:GLN:HB2	1:1:407:TRP:CZ3	2.39	0.56
1:3:133:ASN:HB3	1:3:547:GLN:HE22	1.69	0.56
1:6:323:ASN:HD21	1:b:375:ARG:HH21	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:364:GLN:HB2	1:e:407:TRP:CZ3	2.39	0.56
1:f:178:VAL:HG22	1:f:498:VAL:HG12	1.88	0.56
1:l:290:GLN:OE1	1:m:191:ALA:HA	2.05	0.56
1:n:49:ASN:ND2	1:n:202:PRO:HB3	2.21	0.56
1:n:290:GLN:OE1	1:o:191:ALA:HA	2.05	0.56
1:t:241:GLY:H	1:x:552:ASN:ND2	2.02	0.56
1:v:139:ASN:HB2	1:v:275:PRO:HB3	1.88	0.56
1:A:375:ARG:HH21	1:I:323:ASN:HD21	1.54	0.56
1:G:407:TRP:HE1	1:G:409:ASN:HB3	1.71	0.56
1:J:49:ASN:ND2	1:J:202:PRO:HB3	2.21	0.56
1:N:469:ASP:OD1	1:N:470:LYS:N	2.39	0.56
1:P:469:ASP:OD1	1:P:470:LYS:N	2.39	0.56
1:S:139:ASN:HB2	1:S:275:PRO:HB3	1.88	0.56
1:T:139:ASN:HB2	1:T:275:PRO:HB3	1.88	0.56
1:U:49:ASN:ND2	1:U:202:PRO:HB3	2.21	0.56
1:U:407:TRP:HE1	1:U:409:ASN:HB3	1.71	0.56
1:Y:469:ASP:OD1	1:Y:470:LYS:N	2.39	0.56
1:1:469:ASP:OD1	1:1:470:LYS:N	2.39	0.56
1:4:133:ASN:HB3	1:4:547:GLN:HE22	1.70	0.56
1:5:49:ASN:ND2	1:5:202:PRO:HB3	2.21	0.56
1:5:558:TYR:OH	1:5:576:PRO:O	2.20	0.56
1:6:133:ASN:HB3	1:6:547:GLN:HE22	1.70	0.56
1:c:133:ASN:HB3	1:c:547:GLN:HE22	1.69	0.56
1:c:469:ASP:OD1	1:c:470:LYS:N	2.39	0.56
1:g:139:ASN:HB2	1:g:275:PRO:HB3	1.88	0.56
1:h:139:ASN:HB2	1:h:275:PRO:HB3	1.88	0.56
1:h:469:ASP:OD1	1:h:470:LYS:N	2.39	0.56
1:j:139:ASN:HB2	1:j:275:PRO:HB3	1.88	0.56
1:k:178:VAL:HG22	1:k:498:VAL:HG12	1.88	0.56
1:q:364:GLN:HB2	1:q:407:TRP:CZ3	2.39	0.56
1:q:407:TRP:HE1	1:q:409:ASN:HB3	1.71	0.56
1:t:407:TRP:HE1	1:t:409:ASN:HB3	1.71	0.56
1:w:133:ASN:HB3	1:w:547:GLN:HE22	1.70	0.56
1:w:552:ASN:ND2	1:8:241:GLY:H	2.02	0.56
1:x:139:ASN:HB2	1:x:275:PRO:HB3	1.88	0.56
1:y:49:ASN:ND2	1:y:202:PRO:HB3	2.21	0.56
1:8:133:ASN:HB3	1:8:547:GLN:HE22	1.70	0.56
1:E:407:TRP:HE1	1:E:409:ASN:HB3	1.71	0.56
1:J:290:GLN:OE1	1:L:191:ALA:HA	2.05	0.56
1:J:363:THR:HG22	1:J:364:GLN:H	1.71	0.56
1:K:139:ASN:HB2	1:K:275:PRO:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:178:VAL:HG22	1:K:498:VAL:HG12	1.88	0.56
1:K:407:TRP:HE1	1:K:409:ASN:HB3	1.71	0.56
1:N:178:VAL:HG22	1:N:498:VAL:HG12	1.88	0.56
1:O:241:GLY:H	1:4:552:ASN:ND2	2.02	0.56
1:P:49:ASN:ND2	1:P:202:PRO:HB3	2.21	0.56
1:P:407:TRP:HE1	1:P:409:ASN:HB3	1.71	0.56
1:S:469:ASP:OD1	1:S:470:LYS:N	2.39	0.56
1:X:407:TRP:HE1	1:X:409:ASN:HB3	1.71	0.56
1:Y:139:ASN:HB2	1:Y:275:PRO:HB3	1.88	0.56
1:Y:407:TRP:HE1	1:Y:409:ASN:HB3	1.71	0.56
1:1:139:ASN:HB2	1:1:275:PRO:HB3	1.88	0.56
1:2:133:ASN:HB3	1:2:547:GLN:HE22	1.69	0.56
1:3:375:ARG:HH21	1:j:323:ASN:HD21	1.54	0.56
1:6:49:ASN:ND2	1:6:202:PRO:HB3	2.21	0.56
1:6:407:TRP:HE1	1:6:409:ASN:HB3	1.71	0.56
1:b:558:TYR:OH	1:b:576:PRO:O	2.20	0.56
1:c:139:ASN:HB2	1:c:275:PRO:HB3	1.88	0.56
1:c:407:TRP:HE1	1:c:409:ASN:HB3	1.71	0.56
1:e:49:ASN:ND2	1:e:202:PRO:HB3	2.21	0.56
1:i:49:ASN:ND2	1:i:202:PRO:HB3	2.21	0.56
1:j:133:ASN:HB3	1:j:547:GLN:HE22	1.70	0.56
1:n:219:ARG:NH2	1:n:234:ASP:OD1	2.34	0.56
1:o:363:THR:HG22	1:o:364:GLN:H	1.71	0.56
1:r:290:GLN:OE1	1:s:191:ALA:HA	2.05	0.56
1:r:407:TRP:HE1	1:r:409:ASN:HB3	1.71	0.56
1:t:49:ASN:ND2	1:t:202:PRO:HB3	2.21	0.56
1:v:317:THR:HA	1:v:331:VAL:HG23	1.88	0.56
1:v:469:ASP:OD1	1:v:470:LYS:N	2.39	0.56
1:w:178:VAL:HG22	1:w:498:VAL:HG12	1.88	0.56
1:y:133:ASN:HB3	1:y:547:GLN:HE22	1.69	0.56
1:y:407:TRP:HE1	1:y:409:ASN:HB3	1.71	0.56
1:y:469:ASP:OD1	1:y:470:LYS:N	2.39	0.56
1:7:178:VAL:HG22	1:7:498:VAL:HG12	1.88	0.56
1:7:469:ASP:OD1	1:7:470:LYS:N	2.39	0.56
1:8:364:GLN:HB2	1:8:407:TRP:CZ3	2.39	0.56
1:B:139:ASN:HB2	1:B:275:PRO:HB3	1.88	0.56
1:C:139:ASN:HB2	1:C:275:PRO:HB3	1.88	0.56
1:C:323:ASN:HD21	1:2:375:ARG:HH21	1.54	0.56
1:F:49:ASN:ND2	1:F:202:PRO:HB3	2.21	0.56
1:J:469:ASP:OD1	1:J:470:LYS:N	2.39	0.56
1:L:178:VAL:HG22	1:L:498:VAL:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:49:ASN:ND2	1:M:202:PRO:HB3	2.21	0.56
1:O:363:THR:HG22	1:O:364:GLN:H	1.71	0.56
1:Q:363:THR:HG22	1:Q:364:GLN:H	1.71	0.56
1:R:469:ASP:OD1	1:R:470:LYS:N	2.39	0.56
1:S:317:THR:HA	1:S:331:VAL:HG23	1.88	0.56
1:W:49:ASN:ND2	1:W:202:PRO:HB3	2.21	0.56
1:W:317:THR:HA	1:W:331:VAL:HG23	1.88	0.56
1:W:364:GLN:HB2	1:W:407:TRP:CZ3	2.39	0.56
1:X:363:THR:HG22	1:X:364:GLN:H	1.71	0.56
1:Y:133:ASN:HB3	1:Y:547:GLN:HE22	1.69	0.56
1:4:178:VAL:HG22	1:4:498:VAL:HG12	1.88	0.56
1:5:133:ASN:HB3	1:5:547:GLN:HE22	1.70	0.56
1:5:407:TRP:HE1	1:5:409:ASN:HB3	1.71	0.56
1:6:363:THR:HG22	1:6:364:GLN:H	1.71	0.56
1:a:375:ARG:HH21	1:b:323:ASN:HD21	1.54	0.56
1:g:178:VAL:HG22	1:g:498:VAL:HG12	1.88	0.56
1:g:407:TRP:HE1	1:g:409:ASN:HB3	1.71	0.56
1:h:363:THR:HG22	1:h:364:GLN:H	1.71	0.56
1:l:363:THR:HG22	1:l:364:GLN:H	1.72	0.56
1:o:317:THR:HA	1:o:331:VAL:HG23	1.88	0.56
1:p:49:ASN:ND2	1:p:202:PRO:HB3	2.21	0.56
1:r:323:ASN:HD21	1:s:375:ARG:HH21	1.54	0.56
1:u:323:ASN:HD21	1:v:375:ARG:HH21	1.54	0.56
1:u:469:ASP:OD1	1:u:470:LYS:N	2.39	0.56
1:w:363:THR:HG22	1:w:364:GLN:H	1.71	0.56
1:z:178:VAL:HG22	1:z:498:VAL:HG12	1.88	0.56
1:A:178:VAL:HG22	1:A:498:VAL:HG12	1.88	0.55
1:D:178:VAL:HG22	1:D:498:VAL:HG12	1.88	0.55
1:E:178:VAL:HG22	1:E:498:VAL:HG12	1.88	0.55
1:G:364:GLN:HB2	1:G:407:TRP:CZ3	2.39	0.55
1:I:407:TRP:HE1	1:I:409:ASN:HB3	1.71	0.55
1:N:49:ASN:ND2	1:N:202:PRO:HB3	2.21	0.55
1:O:364:GLN:HB2	1:O:407:TRP:CZ3	2.39	0.55
1:Q:317:THR:HA	1:Q:331:VAL:HG23	1.88	0.55
1:Q:407:TRP:HE1	1:Q:409:ASN:HB3	1.71	0.55
1:R:363:THR:HG22	1:R:364:GLN:H	1.71	0.55
1:T:363:THR:HG22	1:T:364:GLN:H	1.71	0.55
1:U:469:ASP:OD1	1:U:470:LYS:N	2.39	0.55
1:X:317:THR:HA	1:X:331:VAL:HG23	1.88	0.55
1:1:363:THR:HG22	1:1:364:GLN:H	1.71	0.55
1:4:363:THR:HG22	1:4:364:GLN:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:363:THR:HG22	1:5:364:GLN:H	1.71	0.55
1:6:558:TYR:OH	1:6:576:PRO:O	2.20	0.55
1:b:317:THR:HA	1:b:331:VAL:HG23	1.88	0.55
1:b:363:THR:HG22	1:b:364:GLN:H	1.71	0.55
1:b:407:TRP:HE1	1:b:409:ASN:HB3	1.71	0.55
1:c:123:PHE:O	1:c:462:TYR:OH	2.16	0.55
1:e:317:THR:HA	1:e:331:VAL:HG23	1.88	0.55
1:l:317:THR:HA	1:l:331:VAL:HG23	1.88	0.55
1:m:178:VAL:HG22	1:m:498:VAL:HG12	1.88	0.55
1:n:178:VAL:HG22	1:n:498:VAL:HG12	1.88	0.55
1:n:407:TRP:HE1	1:n:409:ASN:HB3	1.71	0.55
1:q:323:ASN:HD21	1:r:375:ARG:HH21	1.54	0.55
1:s:49:ASN:ND2	1:s:202:PRO:HB3	2.21	0.55
1:s:178:VAL:HG22	1:s:498:VAL:HG12	1.88	0.55
1:t:469:ASP:OD1	1:t:470:LYS:N	2.39	0.55
1:7:49:ASN:ND2	1:7:202:PRO:HB3	2.21	0.55
1:A:49:ASN:ND2	1:A:202:PRO:HB3	2.21	0.55
1:D:49:ASN:ND2	1:D:202:PRO:HB3	2.21	0.55
1:E:219:ARG:NH2	1:E:234:ASP:OD1	2.34	0.55
1:F:139:ASN:HB2	1:F:275:PRO:HB3	1.88	0.55
1:F:241:GLY:H	1:R:552:ASN:ND2	2.02	0.55
1:H:347:THR:HG21	1:Y:410:ASN:HB2	1.88	0.55
1:J:317:THR:HA	1:J:331:VAL:HG23	1.88	0.55
1:M:317:THR:HA	1:M:331:VAL:HG23	1.88	0.55
1:N:407:TRP:HE1	1:N:409:ASN:HB3	1.71	0.55
1:V:317:THR:HA	1:V:331:VAL:HG23	1.88	0.55
1:V:375:ARG:HH21	1:X:323:ASN:HD21	1.54	0.55
1:a:317:THR:HA	1:a:331:VAL:HG23	1.88	0.55
1:d:290:GLN:OE1	1:e:191:ALA:HA	2.05	0.55
1:i:317:THR:HA	1:i:331:VAL:HG23	1.88	0.55
1:k:139:ASN:HB2	1:k:275:PRO:HB3	1.88	0.55
1:l:407:TRP:HE1	1:l:409:ASN:HB3	1.71	0.55
1:l:469:ASP:OD1	1:l:470:LYS:N	2.39	0.55
1:n:139:ASN:HB2	1:n:275:PRO:HB3	1.88	0.55
1:o:407:TRP:HE1	1:o:409:ASN:HB3	1.71	0.55
1:w:364:GLN:HB2	1:w:407:TRP:CZ3	2.39	0.55
1:x:363:THR:HG22	1:x:364:GLN:H	1.72	0.55
1:z:290:GLN:OE1	1:7:191:ALA:HA	2.06	0.55
1:B:241:GLY:H	1:C:552:ASN:ND2	2.02	0.55
1:D:290:GLN:OE1	1:N:191:ALA:HA	2.06	0.55
1:G:469:ASP:OD1	1:G:470:LYS:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:219:ARG:NH2	1:I:234:ASP:OD1	2.34	0.55
1:K:187:PRO:HA	1:8:585:ASN:HD21	1.70	0.55
1:V:139:ASN:HB2	1:V:275:PRO:HB3	1.88	0.55
1:4:364:GLN:HB2	1:4:407:TRP:CZ3	2.39	0.55
1:5:317:THR:HA	1:5:331:VAL:HG23	1.88	0.55
1:i:469:ASP:OD1	1:i:470:LYS:N	2.39	0.55
1:l:219:ARG:NH2	1:l:234:ASP:OD1	2.34	0.55
1:p:139:ASN:HB2	1:p:275:PRO:HB3	1.88	0.55
1:p:241:GLY:H	1:u:552:ASN:ND2	2.02	0.55
1:q:317:THR:HA	1:q:331:VAL:HG23	1.88	0.55
1:r:219:ARG:NH2	1:r:234:ASP:OD1	2.34	0.55
1:u:363:THR:HG22	1:u:364:GLN:H	1.71	0.55
1:u:364:GLN:HB2	1:u:407:TRP:CZ3	2.39	0.55
1:u:407:TRP:HE1	1:u:409:ASN:HB3	1.71	0.55
1:z:49:ASN:ND2	1:z:202:PRO:HB3	2.21	0.55
1:8:363:THR:HG22	1:8:364:GLN:H	1.72	0.55
1:B:363:THR:HG22	1:B:364:GLN:H	1.71	0.55
1:B:407:TRP:HE1	1:B:409:ASN:HB3	1.71	0.55
1:G:139:ASN:HB2	1:G:275:PRO:HB3	1.88	0.55
1:G:317:THR:HA	1:G:331:VAL:HG23	1.88	0.55
1:I:363:THR:HG22	1:I:364:GLN:H	1.71	0.55
1:J:407:TRP:HE1	1:J:409:ASN:HB3	1.71	0.55
1:L:364:GLN:HB2	1:L:407:TRP:CZ3	2.39	0.55
1:M:469:ASP:OD1	1:M:470:LYS:N	2.39	0.55
1:R:323:ASN:HD21	1:S:375:ARG:HH21	1.54	0.55
1:S:49:ASN:ND2	1:S:202:PRO:HB3	2.21	0.55
1:U:139:ASN:HB2	1:U:275:PRO:HB3	1.88	0.55
1:W:469:ASP:OD1	1:W:470:LYS:N	2.39	0.55
1:X:469:ASP:OD1	1:X:470:LYS:N	2.39	0.55
1:Y:317:THR:HA	1:Y:331:VAL:HG23	1.88	0.55
1:Z:363:THR:HG22	1:Z:364:GLN:H	1.71	0.55
1:2:407:TRP:HE1	1:2:409:ASN:HB3	1.71	0.55
1:4:407:TRP:HE1	1:4:409:ASN:HB3	1.71	0.55
1:c:49:ASN:ND2	1:c:202:PRO:HB3	2.21	0.55
1:c:317:THR:HA	1:c:331:VAL:HG23	1.88	0.55
1:d:542:TRP:HB3	1:e:246:PHE:HD2	1.70	0.55
1:g:552:ASN:ND2	1:m:241:GLY:H	2.02	0.55
1:k:290:GLN:OE1	1:l:191:ALA:HA	2.05	0.55
1:k:363:THR:HG22	1:k:364:GLN:H	1.72	0.55
1:n:375:ARG:HH21	1:p:323:ASN:HD21	1.54	0.55
1:t:139:ASN:HB2	1:t:275:PRO:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:49:ASN:ND2	1:v:202:PRO:HB3	2.21	0.55
1:v:109:THR:OG1	1:v:211:TYR:O	2.24	0.55
1:w:469:ASP:OD1	1:w:470:LYS:N	2.39	0.55
1:7:407:TRP:HE1	1:7:409:ASN:HB3	1.71	0.55
1:E:139:ASN:HB2	1:E:275:PRO:HB3	1.88	0.55
1:F:317:THR:HA	1:F:331:VAL:HG23	1.88	0.55
1:G:323:ASN:HD21	1:I:375:ARG:HH21	1.54	0.55
1:H:139:ASN:HB2	1:H:275:PRO:HB3	1.88	0.55
1:K:317:THR:HA	1:K:331:VAL:HG23	1.88	0.55
1:O:139:ASN:HB2	1:O:275:PRO:HB3	1.88	0.55
1:P:363:THR:HG21	1:P:407:TRP:HB2	1.89	0.55
1:R:219:ARG:NH2	1:R:234:ASP:OD1	2.34	0.55
1:R:364:GLN:HB2	1:R:407:TRP:CZ3	2.39	0.55
1:R:407:TRP:HE1	1:R:409:ASN:HB3	1.71	0.55
1:S:109:THR:OG1	1:S:211:TYR:O	2.24	0.55
1:Y:123:PHE:O	1:Y:462:TYR:OH	2.16	0.55
1:6:317:THR:HA	1:6:331:VAL:HG23	1.88	0.55
1:a:139:ASN:HB2	1:a:275:PRO:HB3	1.88	0.55
1:e:469:ASP:OD1	1:e:470:LYS:N	2.39	0.55
1:f:363:THR:HG22	1:f:364:GLN:H	1.71	0.55
1:j:363:THR:HG22	1:j:364:GLN:H	1.71	0.55
1:j:364:GLN:HB2	1:j:407:TRP:CZ3	2.39	0.55
1:k:563:ARG:HH21	1:k:575:VAL:HG11	1.72	0.55
1:l:363:THR:HG21	1:l:407:TRP:HB2	1.89	0.55
1:n:323:ASN:HD21	1:o:375:ARG:HH21	1.54	0.55
1:q:139:ASN:HB2	1:q:275:PRO:HB3	1.88	0.55
1:q:469:ASP:OD1	1:q:470:LYS:N	2.39	0.55
1:r:363:THR:HG22	1:r:364:GLN:H	1.71	0.55
1:t:323:ASN:HD21	1:u:375:ARG:HH21	1.54	0.55
1:w:407:TRP:HE1	1:w:409:ASN:HB3	1.71	0.55
1:y:363:THR:HG21	1:y:407:TRP:HB2	1.89	0.55
1:y:563:ARG:HH21	1:y:575:VAL:HG11	1.72	0.55
1:B:375:ARG:HH21	1:L:323:ASN:HD21	1.54	0.55
1:C:363:THR:HG22	1:C:364:GLN:H	1.72	0.55
1:E:375:ARG:HH21	1:F:323:ASN:HD21	1.54	0.55
1:G:363:THR:HG22	1:G:364:GLN:H	1.71	0.55
1:J:178:VAL:HG22	1:J:498:VAL:HG12	1.88	0.55
1:J:219:ARG:NH2	1:J:234:ASP:OD1	2.34	0.55
1:J:363:THR:HG21	1:J:407:TRP:HB2	1.89	0.55
1:L:469:ASP:OD1	1:L:470:LYS:N	2.39	0.55
1:M:407:TRP:HE1	1:M:409:ASN:HB3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:219:ARG:NH2	1:O:234:ASP:OD1	2.34	0.55
1:O:469:ASP:OD1	1:O:470:LYS:N	2.39	0.55
1:R:375:ARG:HH21	1:U:323:ASN:HD21	1.54	0.55
1:S:363:THR:HG21	1:S:407:TRP:HB2	1.89	0.55
1:T:178:VAL:HG22	1:T:498:VAL:HG12	1.88	0.55
1:X:178:VAL:HG22	1:X:498:VAL:HG12	1.88	0.55
1:X:363:THR:HG21	1:X:407:TRP:HB2	1.89	0.55
1:Y:49:ASN:ND2	1:Y:202:PRO:HB3	2.21	0.55
1:Y:109:THR:OG1	1:Y:211:TYR:O	2.24	0.55
1:2:363:THR:HG21	1:2:407:TRP:HB2	1.89	0.55
1:3:407:TRP:HE1	1:3:409:ASN:HB3	1.71	0.55
1:4:469:ASP:OD1	1:4:470:LYS:N	2.39	0.55
1:c:109:THR:OG1	1:c:211:TYR:O	2.24	0.55
1:g:317:THR:HA	1:g:331:VAL:HG23	1.88	0.55
1:g:363:THR:HG22	1:g:364:GLN:H	1.71	0.55
1:k:375:ARG:HH21	1:m:323:ASN:HD21	1.54	0.55
1:k:407:TRP:HE1	1:k:409:ASN:HB3	1.71	0.55
1:m:469:ASP:OD1	1:m:470:LYS:N	2.39	0.55
1:o:563:ARG:HH21	1:o:575:VAL:HG11	1.72	0.55
1:p:178:VAL:HG22	1:p:498:VAL:HG12	1.88	0.55
1:p:317:THR:HA	1:p:331:VAL:HG23	1.88	0.55
1:v:363:THR:HG21	1:v:407:TRP:HB2	1.89	0.55
1:w:375:ARG:HH21	1:x:323:ASN:HD21	1.54	0.55
1:x:178:VAL:HG22	1:x:498:VAL:HG12	1.88	0.55
1:8:139:ASN:HB2	1:8:275:PRO:HB3	1.88	0.55
1:8:469:ASP:OD1	1:8:470:LYS:N	2.39	0.55
1:B:290:GLN:OE1	1:J:191:ALA:HA	2.06	0.55
1:B:563:ARG:HH21	1:B:575:VAL:HG11	1.72	0.55
1:C:364:GLN:HB2	1:C:407:TRP:CZ3	2.39	0.55
1:C:375:ARG:HH21	1:M:323:ASN:HD21	1.54	0.55
1:F:178:VAL:HG22	1:F:498:VAL:HG12	1.88	0.55
1:H:363:THR:HG22	1:H:364:GLN:H	1.72	0.55
1:H:363:THR:HG21	1:H:407:TRP:HB2	1.89	0.55
1:K:290:GLN:OE1	1:1:191:ALA:HA	2.06	0.55
1:M:363:THR:HG22	1:M:364:GLN:H	1.72	0.55
1:N:290:GLN:OE1	1:P:191:ALA:HA	2.05	0.55
1:P:563:ARG:HH21	1:P:575:VAL:HG11	1.72	0.55
1:Q:563:ARG:HH21	1:Q:575:VAL:HG11	1.72	0.55
1:R:363:THR:HG21	1:R:407:TRP:HB2	1.89	0.55
1:R:558:TYR:OH	1:R:576:PRO:O	2.20	0.55
1:W:323:ASN:HD21	1:Y:375:ARG:HH21	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:563:ARG:HH21	1:W:575:VAL:HG11	1.72	0.55
1:3:363:THR:HG21	1:3:407:TRP:HB2	1.89	0.55
1:5:178:VAL:HG22	1:5:498:VAL:HG12	1.88	0.55
1:5:563:ARG:HH21	1:5:575:VAL:HG11	1.72	0.55
1:6:178:VAL:HG22	1:6:498:VAL:HG12	1.88	0.55
1:6:363:THR:HG21	1:6:407:TRP:HB2	1.89	0.55
1:b:178:VAL:HG22	1:b:498:VAL:HG12	1.88	0.55
1:b:469:ASP:OD1	1:b:470:LYS:N	2.39	0.55
1:d:139:ASN:HB2	1:d:275:PRO:HB3	1.88	0.55
1:d:323:ASN:HD21	1:e:375:ARG:HH21	1.54	0.55
1:e:563:ARG:HH21	1:e:575:VAL:HG11	1.72	0.55
1:i:363:THR:HG22	1:i:364:GLN:H	1.72	0.55
1:i:407:TRP:HE1	1:i:409:ASN:HB3	1.71	0.55
1:j:552:ASN:ND2	1:k:241:GLY:H	2.02	0.55
1:l:178:VAL:HG22	1:l:498:VAL:HG12	1.88	0.55
1:r:139:ASN:HB2	1:r:275:PRO:HB3	1.88	0.55
1:s:317:THR:HA	1:s:331:VAL:HG23	1.88	0.55
1:t:219:ARG:NH2	1:t:234:ASP:OD1	2.34	0.55
1:u:219:ARG:NH2	1:u:234:ASP:OD1	2.34	0.55
1:u:558:TYR:OH	1:u:576:PRO:O	2.20	0.55
1:u:563:ARG:HH21	1:u:575:VAL:HG11	1.72	0.55
1:v:363:THR:HG22	1:v:364:GLN:H	1.71	0.55
1:F:375:ARG:HH21	1:Q:323:ASN:HD21	1.54	0.55
1:H:317:THR:HA	1:H:331:VAL:HG23	1.88	0.55
1:H:407:TRP:HE1	1:H:409:ASN:HB3	1.71	0.55
1:J:563:ARG:HH21	1:J:575:VAL:HG11	1.72	0.55
1:K:363:THR:HG21	1:K:407:TRP:HB2	1.89	0.55
1:K:563:ARG:HH21	1:K:575:VAL:HG11	1.72	0.55
1:L:184:ASN:ND2	1:L:491:ASN:OD1	2.40	0.55
1:L:317:THR:HA	1:L:331:VAL:HG23	1.88	0.55
1:M:241:GLY:H	1:3:552:ASN:ND2	2.02	0.55
1:O:407:TRP:HE1	1:O:409:ASN:HB3	1.71	0.55
1:P:363:THR:HG22	1:P:364:GLN:H	1.72	0.55
1:Q:469:ASP:OD1	1:Q:470:LYS:N	2.39	0.55
1:R:139:ASN:HB2	1:R:275:PRO:HB3	1.88	0.55
1:R:563:ARG:HH21	1:R:575:VAL:HG11	1.72	0.55
1:T:323:ASN:HD21	1:4:375:ARG:HH21	1.54	0.55
1:V:407:TRP:HE1	1:V:409:ASN:HB3	1.71	0.55
1:5:363:THR:HG21	1:5:407:TRP:HB2	1.89	0.55
1:b:139:ASN:HB2	1:b:275:PRO:HB3	1.88	0.55
1:b:219:ARG:NH2	1:b:234:ASP:OD1	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:363:THR:HG21	1:b:407:TRP:HB2	1.89	0.55
1:d:317:THR:HA	1:d:331:VAL:HG23	1.88	0.55
1:d:363:THR:HG22	1:d:364:GLN:H	1.72	0.55
1:d:407:TRP:HE1	1:d:409:ASN:HB3	1.71	0.55
1:g:363:THR:HG21	1:g:407:TRP:HB2	1.89	0.55
1:m:49:ASN:ND2	1:m:202:PRO:HB3	2.21	0.55
1:m:364:GLN:HB2	1:m:407:TRP:CZ3	2.39	0.55
1:q:363:THR:HG22	1:q:364:GLN:H	1.72	0.55
1:t:317:THR:HA	1:t:331:VAL:HG23	1.88	0.55
1:x:469:ASP:OD1	1:x:470:LYS:N	2.39	0.55
1:A:317:THR:HA	1:A:331:VAL:HG23	1.88	0.55
1:B:317:THR:HA	1:B:331:VAL:HG23	1.88	0.55
1:E:323:ASN:HD21	1:Q:375:ARG:HH21	1.54	0.55
1:G:178:VAL:HG22	1:G:498:VAL:HG12	1.88	0.55
1:I:49:ASN:ND2	1:I:202:PRO:HB3	2.21	0.55
1:I:139:ASN:HB2	1:I:275:PRO:HB3	1.88	0.55
1:I:178:VAL:HG22	1:I:498:VAL:HG12	1.88	0.55
1:K:323:ASN:HD21	1:1:375:ARG:HH21	1.55	0.55
1:K:363:THR:HG22	1:K:364:GLN:H	1.72	0.55
1:L:49:ASN:ND2	1:L:202:PRO:HB3	2.21	0.55
1:Q:123:PHE:O	1:Q:462:TYR:OH	2.16	0.55
1:S:363:THR:HG22	1:S:364:GLN:H	1.72	0.55
1:T:469:ASP:OD1	1:T:470:LYS:N	2.39	0.55
1:U:219:ARG:NH2	1:U:234:ASP:OD1	2.34	0.55
1:Z:139:ASN:HB2	1:Z:275:PRO:HB3	1.88	0.55
1:1:363:THR:HG21	1:1:407:TRP:HB2	1.89	0.55
1:3:563:ARG:HH21	1:3:575:VAL:HG11	1.72	0.55
1:4:284:THR:HG22	1:4:285:ASN:N	2.22	0.55
1:a:407:TRP:HE1	1:a:409:ASN:HB3	1.71	0.55
1:d:219:ARG:NH2	1:d:234:ASP:OD1	2.34	0.55
1:d:363:THR:HG21	1:d:407:TRP:HB2	1.89	0.55
1:f:139:ASN:HB2	1:f:275:PRO:HB3	1.88	0.55
1:f:284:THR:HG22	1:f:285:ASN:N	2.22	0.55
1:f:363:THR:HG21	1:f:407:TRP:HB2	1.89	0.55
1:f:407:TRP:HE1	1:f:409:ASN:HB3	1.71	0.55
1:h:363:THR:HG21	1:h:407:TRP:HB2	1.89	0.55
1:h:407:TRP:HE1	1:h:409:ASN:HB3	1.71	0.55
1:i:323:ASN:HD21	1:j:375:ARG:HH21	1.54	0.55
1:j:178:VAL:HG22	1:j:498:VAL:HG12	1.88	0.55
1:o:323:ASN:HD21	1:p:375:ARG:HH21	1.54	0.55
1:o:363:THR:HG21	1:o:407:TRP:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:469:ASP:OD1	1:o:470:LYS:N	2.39	0.55
1:p:407:TRP:HE1	1:p:409:ASN:HB3	1.71	0.55
1:r:317:THR:HA	1:r:331:VAL:HG23	1.88	0.55
1:u:178:VAL:HG22	1:u:498:VAL:HG12	1.88	0.55
1:u:363:THR:HG21	1:u:407:TRP:HB2	1.89	0.55
1:y:191:ALA:HA	1:7:290:GLN:OE1	2.05	0.55
1:8:219:ARG:NH2	1:8:234:ASP:OD1	2.34	0.55
1:A:407:TRP:HE1	1:A:409:ASN:HB3	1.71	0.55
1:C:178:VAL:HG22	1:C:498:VAL:HG12	1.88	0.55
1:D:363:THR:HG22	1:D:364:GLN:H	1.71	0.55
1:G:563:ARG:HH21	1:G:575:VAL:HG11	1.72	0.55
1:H:187:PRO:HA	1:Y:585:ASN:HD21	1.70	0.55
1:L:363:THR:HG21	1:L:407:TRP:HB2	1.89	0.55
1:M:363:THR:HG21	1:M:407:TRP:HB2	1.89	0.55
1:O:178:VAL:HG22	1:O:498:VAL:HG12	1.88	0.55
1:O:284:THR:HG22	1:O:285:ASN:N	2.22	0.55
1:P:109:THR:OG1	1:P:211:TYR:O	2.24	0.55
1:P:178:VAL:HG22	1:P:498:VAL:HG12	1.88	0.55
1:Q:363:THR:HG21	1:Q:407:TRP:HB2	1.89	0.55
1:R:178:VAL:HG22	1:R:498:VAL:HG12	1.88	0.55
1:S:323:ASN:HD21	1:U:375:ARG:HH21	1.54	0.55
1:T:317:THR:HA	1:T:331:VAL:HG23	1.88	0.55
1:V:563:ARG:HH21	1:V:575:VAL:HG11	1.72	0.55
1:W:363:THR:HG21	1:W:407:TRP:HB2	1.89	0.55
1:X:139:ASN:HB2	1:X:275:PRO:HB3	1.88	0.55
1:X:219:ARG:NH2	1:X:234:ASP:OD1	2.34	0.55
1:Z:219:ARG:NH2	1:Z:234:ASP:OD1	2.34	0.55
1:Z:284:THR:HG22	1:Z:285:ASN:N	2.22	0.55
1:Z:363:THR:HG21	1:Z:407:TRP:HB2	1.89	0.55
1:Z:407:TRP:HE1	1:Z:409:ASN:HB3	1.71	0.55
1:2:219:ARG:NH2	1:2:234:ASP:OD1	2.34	0.55
1:2:563:ARG:HH21	1:2:575:VAL:HG11	1.72	0.55
1:3:219:ARG:NH2	1:3:234:ASP:OD1	2.34	0.55
1:6:563:ARG:HH21	1:6:575:VAL:HG11	1.72	0.55
1:c:375:ARG:HH21	1:e:323:ASN:HD21	1.55	0.55
1:e:363:THR:HG21	1:e:407:TRP:HB2	1.89	0.55
1:g:563:ARG:HH21	1:g:575:VAL:HG11	1.72	0.55
1:h:49:ASN:ND2	1:h:202:PRO:HB3	2.21	0.55
1:h:317:THR:HA	1:h:331:VAL:HG23	1.88	0.55
1:i:363:THR:HG21	1:i:407:TRP:HB2	1.89	0.55
1:l:563:ARG:HH21	1:l:575:VAL:HG11	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:363:THR:HG21	1:m:407:TRP:HB2	1.89	0.55
1:q:178:VAL:HG22	1:q:498:VAL:HG12	1.88	0.55
1:q:563:ARG:HH21	1:q:575:VAL:HG11	1.72	0.55
1:r:178:VAL:HG22	1:r:498:VAL:HG12	1.88	0.55
1:u:139:ASN:HB2	1:u:275:PRO:HB3	1.88	0.55
1:w:284:THR:HG22	1:w:285:ASN:N	2.22	0.55
1:x:317:THR:HA	1:x:331:VAL:HG23	1.88	0.55
1:y:178:VAL:HG22	1:y:498:VAL:HG12	1.88	0.55
1:y:363:THR:HG22	1:y:364:GLN:H	1.71	0.55
1:z:363:THR:HG22	1:z:364:GLN:H	1.72	0.55
1:8:178:VAL:HG22	1:8:498:VAL:HG12	1.88	0.55
1:8:284:THR:HG22	1:8:285:ASN:N	2.22	0.55
1:8:407:TRP:HE1	1:8:409:ASN:HB3	1.71	0.55
1:B:469:ASP:OD1	1:B:470:LYS:N	2.39	0.54
1:D:317:THR:HA	1:D:331:VAL:HG23	1.88	0.54
1:E:317:THR:HA	1:E:331:VAL:HG23	1.88	0.54
1:F:407:TRP:HE1	1:F:409:ASN:HB3	1.71	0.54
1:H:219:ARG:NH2	1:H:234:ASP:OD1	2.34	0.54
1:I:317:THR:HA	1:I:331:VAL:HG23	1.88	0.54
1:M:284:THR:HG22	1:M:285:ASN:N	2.22	0.54
1:Q:284:THR:HG22	1:Q:285:ASN:N	2.22	0.54
1:U:317:THR:HA	1:U:331:VAL:HG23	1.88	0.54
1:W:139:ASN:HB2	1:W:275:PRO:HB3	1.88	0.54
1:1:178:VAL:HG22	1:1:498:VAL:HG12	1.88	0.54
1:1:317:THR:HA	1:1:331:VAL:HG23	1.88	0.54
1:a:178:VAL:HG22	1:a:498:VAL:HG12	1.88	0.54
1:a:563:ARG:HH21	1:a:575:VAL:HG11	1.72	0.54
1:d:469:ASP:OD1	1:d:470:LYS:N	2.39	0.54
1:e:139:ASN:HB2	1:e:275:PRO:HB3	1.88	0.54
1:f:219:ARG:NH2	1:f:234:ASP:OD1	2.34	0.54
1:h:178:VAL:HG22	1:h:498:VAL:HG12	1.88	0.54
1:h:563:ARG:HH21	1:h:575:VAL:HG11	1.72	0.54
1:j:317:THR:HA	1:j:331:VAL:HG23	1.88	0.54
1:k:317:THR:HA	1:k:331:VAL:HG23	1.88	0.54
1:k:469:ASP:OD1	1:k:470:LYS:N	2.39	0.54
1:l:323:ASN:HD21	1:m:375:ARG:HH21	1.54	0.54
1:m:317:THR:HA	1:m:331:VAL:HG23	1.88	0.54
1:n:317:THR:HA	1:n:331:VAL:HG23	1.88	0.54
1:o:284:THR:HG22	1:o:285:ASN:N	2.22	0.54
1:r:49:ASN:ND2	1:r:202:PRO:HB3	2.21	0.54
1:s:407:TRP:HE1	1:s:409:ASN:HB3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:317:THR:HA	1:z:331:VAL:HG23	1.88	0.54
1:z:323:ASN:HD21	1:7:375:ARG:HH21	1.55	0.54
1:z:407:TRP:HE1	1:z:409:ASN:HB3	1.71	0.54
1:8:363:THR:HG21	1:8:407:TRP:HB2	1.89	0.54
1:C:317:THR:HA	1:C:331:VAL:HG23	1.88	0.54
1:D:407:TRP:HE1	1:D:409:ASN:HB3	1.71	0.54
1:H:469:ASP:OD1	1:H:470:LYS:N	2.39	0.54
1:I:363:THR:HG21	1:I:407:TRP:HB2	1.89	0.54
1:J:364:GLN:HB2	1:J:407:TRP:CZ3	2.39	0.54
1:M:184:ASN:ND2	1:M:491:ASN:OD1	2.40	0.54
1:N:284:THR:HG22	1:N:285:ASN:N	2.22	0.54
1:N:363:THR:HG22	1:N:364:GLN:H	1.71	0.54
1:O:363:THR:HG21	1:O:407:TRP:HB2	1.89	0.54
1:O:375:ARG:HH21	1:h:323:ASN:HD21	1.54	0.54
1:P:139:ASN:HB2	1:P:275:PRO:HB3	1.88	0.54
1:S:407:TRP:HE1	1:S:409:ASN:HB3	1.71	0.54
1:V:178:VAL:HG22	1:V:498:VAL:HG12	1.88	0.54
1:Y:563:ARG:HH21	1:Y:575:VAL:HG11	1.72	0.54
1:1:49:ASN:ND2	1:1:202:PRO:HB3	2.21	0.54
1:1:323:ASN:HD21	1:8:375:ARG:HH21	1.54	0.54
1:1:407:TRP:HE1	1:1:409:ASN:HB3	1.71	0.54
1:c:363:THR:HG22	1:c:364:GLN:H	1.72	0.54
1:h:284:THR:HG22	1:h:285:ASN:N	2.22	0.54
1:i:184:ASN:ND2	1:i:491:ASN:OD1	2.40	0.54
1:i:284:THR:HG22	1:i:285:ASN:N	2.22	0.54
1:r:363:THR:HG21	1:r:407:TRP:HB2	1.89	0.54
1:t:284:THR:HG22	1:t:285:ASN:N	2.22	0.54
1:t:375:ARG:HH21	1:v:323:ASN:HD21	1.54	0.54
1:v:184:ASN:ND2	1:v:491:ASN:OD1	2.40	0.54
1:y:139:ASN:HB2	1:y:275:PRO:HB3	1.88	0.54
1:y:284:THR:HG22	1:y:285:ASN:N	2.22	0.54
1:7:284:THR:HG22	1:7:285:ASN:N	2.22	0.54
1:7:363:THR:HG22	1:7:364:GLN:H	1.71	0.54
1:A:363:THR:HG21	1:A:407:TRP:HB2	1.89	0.54
1:C:284:THR:HG22	1:C:285:ASN:N	2.22	0.54
1:D:469:ASP:OD1	1:D:470:LYS:N	2.39	0.54
1:E:469:ASP:OD1	1:E:470:LYS:N	2.39	0.54
1:H:282:TRP:CE3	1:W:216:SER:HB3	2.42	0.54
1:K:552:ASN:ND2	1:L:241:GLY:H	2.03	0.54
1:N:317:THR:HA	1:N:331:VAL:HG23	1.88	0.54
1:N:323:ASN:HD21	1:P:375:ARG:HH21	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:563:ARG:HH21	1:N:575:VAL:HG11	1.72	0.54
1:P:284:THR:HG22	1:P:285:ASN:N	2.22	0.54
1:S:184:ASN:ND2	1:S:491:ASN:OD1	2.40	0.54
1:U:284:THR:HG22	1:U:285:ASN:N	2.22	0.54
1:Y:363:THR:HG22	1:Y:364:GLN:H	1.72	0.54
1:Z:563:ARG:HH21	1:Z:575:VAL:HG11	1.72	0.54
1:1:284:THR:HG22	1:1:285:ASN:N	2.23	0.54
1:2:552:ASN:ND2	1:i:241:GLY:H	2.02	0.54
1:a:363:THR:HG22	1:a:364:GLN:H	1.72	0.54
1:c:563:ARG:HH21	1:c:575:VAL:HG11	1.72	0.54
1:e:363:THR:HG22	1:e:364:GLN:H	1.71	0.54
1:f:563:ARG:HH21	1:f:575:VAL:HG11	1.72	0.54
1:j:284:THR:HG22	1:j:285:ASN:N	2.22	0.54
1:l:364:GLN:HB2	1:l:407:TRP:CZ3	2.39	0.54
1:n:469:ASP:OD1	1:n:470:LYS:N	2.39	0.54
1:s:363:THR:HG21	1:s:407:TRP:HB2	1.89	0.54
1:v:407:TRP:HE1	1:v:409:ASN:HB3	1.71	0.54
1:z:469:ASP:OD1	1:z:470:LYS:N	2.39	0.54
1:7:317:THR:HA	1:7:331:VAL:HG23	1.88	0.54
1:7:563:ARG:HH21	1:7:575:VAL:HG11	1.72	0.54
1:A:139:ASN:HB2	1:A:275:PRO:HB3	1.88	0.54
1:B:363:THR:HG21	1:B:407:TRP:HB2	1.89	0.54
1:C:407:TRP:HE1	1:C:409:ASN:HB3	1.71	0.54
1:D:323:ASN:HD21	1:N:375:ARG:HH21	1.56	0.54
1:D:363:THR:HG21	1:D:407:TRP:HB2	1.89	0.54
1:M:139:ASN:HB2	1:M:275:PRO:HB3	1.88	0.54
1:O:317:THR:HA	1:O:331:VAL:HG23	1.88	0.54
1:Q:178:VAL:HG22	1:Q:498:VAL:HG12	1.88	0.54
1:V:284:THR:HG22	1:V:285:ASN:N	2.22	0.54
1:V:363:THR:HG22	1:V:364:GLN:H	1.71	0.54
1:1:563:ARG:HH21	1:1:575:VAL:HG11	1.72	0.54
1:2:109:THR:OG1	1:2:211:TYR:O	2.24	0.54
1:3:317:THR:HA	1:3:331:VAL:HG23	1.88	0.54
1:6:123:PHE:O	1:6:462:TYR:OH	2.16	0.54
1:i:563:ARG:HH21	1:i:575:VAL:HG11	1.72	0.54
1:k:363:THR:HG21	1:k:407:TRP:HB2	1.89	0.54
1:n:364:GLN:HB2	1:n:407:TRP:CZ3	2.39	0.54
1:o:178:VAL:HG22	1:o:498:VAL:HG12	1.88	0.54
1:p:363:THR:HG22	1:p:364:GLN:H	1.71	0.54
1:s:563:ARG:HH21	1:s:575:VAL:HG11	1.72	0.54
1:z:363:THR:HG21	1:z:407:TRP:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:563:ARG:HH21	1:A:575:VAL:HG11	1.72	0.54
1:C:363:THR:HG21	1:C:407:TRP:HB2	1.89	0.54
1:D:282:TRP:CE3	1:N:216:SER:HB3	2.43	0.54
1:H:563:ARG:HH21	1:H:575:VAL:HG11	1.72	0.54
1:L:407:TRP:HE1	1:L:409:ASN:HB3	1.71	0.54
1:T:284:THR:HG22	1:T:285:ASN:N	2.22	0.54
1:T:364:GLN:HB2	1:T:407:TRP:CZ3	2.39	0.54
1:T:563:ARG:HH21	1:T:575:VAL:HG11	1.72	0.54
1:U:178:VAL:HG22	1:U:498:VAL:HG12	1.88	0.54
1:W:178:VAL:HG22	1:W:498:VAL:HG12	1.88	0.54
1:W:363:THR:HG22	1:W:364:GLN:H	1.71	0.54
1:Y:363:THR:HG21	1:Y:407:TRP:HB2	1.89	0.54
1:2:178:VAL:HG22	1:2:498:VAL:HG12	1.88	0.54
1:2:284:THR:HG22	1:2:285:ASN:N	2.22	0.54
1:2:317:THR:HA	1:2:331:VAL:HG23	1.88	0.54
1:3:178:VAL:HG22	1:3:498:VAL:HG12	1.88	0.54
1:4:323:ASN:HD21	1:f:375:ARG:HH21	1.54	0.54
1:a:284:THR:HG22	1:a:285:ASN:N	2.23	0.54
1:d:563:ARG:HH21	1:d:575:VAL:HG11	1.72	0.54
1:e:178:VAL:HG22	1:e:498:VAL:HG12	1.88	0.54
1:e:375:ARG:HH11	1:e:396:THR:HG1	1.55	0.54
1:j:363:THR:HG21	1:j:407:TRP:HB2	1.89	0.54
1:m:139:ASN:HB2	1:m:275:PRO:HB3	1.88	0.54
1:m:407:TRP:HE1	1:m:409:ASN:HB3	1.71	0.54
1:n:363:THR:HG22	1:n:364:GLN:H	1.71	0.54
1:n:563:ARG:HH21	1:n:575:VAL:HG11	1.72	0.54
1:p:563:ARG:HH21	1:p:575:VAL:HG11	1.72	0.54
1:q:219:ARG:NH2	1:q:234:ASP:OD1	2.34	0.54
1:r:284:THR:HG22	1:r:285:ASN:N	2.22	0.54
1:t:178:VAL:HG22	1:t:498:VAL:HG12	1.88	0.54
1:v:178:VAL:HG22	1:v:498:VAL:HG12	1.88	0.54
1:x:284:THR:HG22	1:x:285:ASN:N	2.22	0.54
1:x:364:GLN:HB2	1:x:407:TRP:CZ3	2.39	0.54
1:y:317:THR:HA	1:y:331:VAL:HG23	1.88	0.54
1:8:317:THR:HA	1:8:331:VAL:HG23	1.88	0.54
1:A:347:THR:HG21	1:I:410:ASN:HB2	1.90	0.54
1:C:219:ARG:NH2	1:C:234:ASP:OD1	2.34	0.54
1:F:197:THR:O	1:F:382:HIS:NE2	2.40	0.54
1:F:363:THR:HG21	1:F:407:TRP:HB2	1.89	0.54
1:F:363:THR:HG22	1:F:364:GLN:H	1.71	0.54
1:F:563:ARG:HH21	1:F:575:VAL:HG11	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:197:THR:O	1:G:382:HIS:NE2	2.40	0.54
1:H:284:THR:HG22	1:H:285:ASN:N	2.22	0.54
1:I:284:THR:HG22	1:I:285:ASN:N	2.22	0.54
1:J:323:ASN:HD21	1:L:375:ARG:HH21	1.54	0.54
1:K:282:TRP:CE3	1:1:216:SER:HB3	2.43	0.54
1:L:139:ASN:HB2	1:L:275:PRO:HB3	1.88	0.54
1:L:284:THR:HG22	1:L:285:ASN:N	2.22	0.54
1:M:178:VAL:HG22	1:M:498:VAL:HG12	1.88	0.54
1:M:563:ARG:HH21	1:M:575:VAL:HG11	1.72	0.54
1:S:563:ARG:HH21	1:S:575:VAL:HG11	1.72	0.54
1:W:282:TRP:CE3	1:Y:216:SER:HB3	2.43	0.54
1:X:563:ARG:HH21	1:X:575:VAL:HG11	1.72	0.54
1:Y:364:GLN:HB2	1:Y:407:TRP:CZ3	2.39	0.54
1:Z:375:ARG:HH21	1:w:323:ASN:HD21	1.54	0.54
1:4:317:THR:HA	1:4:331:VAL:HG23	1.89	0.54
1:b:563:ARG:HH21	1:b:575:VAL:HG11	1.72	0.54
1:c:216:SER:HB3	1:e:282:TRP:CE3	2.43	0.54
1:c:284:THR:HG22	1:c:285:ASN:N	2.22	0.54
1:d:178:VAL:HG22	1:d:498:VAL:HG12	1.88	0.54
1:j:407:TRP:HE1	1:j:409:ASN:HB3	1.71	0.54
1:s:139:ASN:HB2	1:s:275:PRO:HB3	1.88	0.54
1:t:363:THR:HG21	1:t:407:TRP:HB2	1.89	0.54
1:w:317:THR:HA	1:w:331:VAL:HG23	1.89	0.54
1:x:563:ARG:HH21	1:x:575:VAL:HG11	1.72	0.54
1:B:284:THR:HG22	1:B:285:ASN:N	2.22	0.54
1:E:363:THR:HG22	1:E:364:GLN:H	1.72	0.54
1:E:364:GLN:HB2	1:E:407:TRP:CZ3	2.39	0.54
1:H:178:VAL:HG22	1:H:498:VAL:HG12	1.88	0.54
1:P:317:THR:HA	1:P:331:VAL:HG23	1.88	0.54
1:S:178:VAL:HG22	1:S:498:VAL:HG12	1.88	0.54
1:S:284:THR:HG22	1:S:285:ASN:N	2.22	0.54
1:X:284:THR:HG22	1:X:285:ASN:N	2.22	0.54
1:Y:284:THR:HG22	1:Y:285:ASN:N	2.22	0.54
1:2:363:THR:HG22	1:2:364:GLN:H	1.71	0.54
1:3:109:THR:OG1	1:3:211:TYR:O	2.24	0.54
1:3:284:THR:HG22	1:3:285:ASN:N	2.23	0.54
1:b:284:THR:HG22	1:b:285:ASN:N	2.22	0.54
1:c:178:VAL:HG22	1:c:498:VAL:HG12	1.88	0.54
1:c:363:THR:HG21	1:c:407:TRP:HB2	1.89	0.54
1:d:284:THR:HG22	1:d:285:ASN:N	2.22	0.54
1:i:139:ASN:HB2	1:i:275:PRO:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:317:THR:HG21	1:l:322[B]:ARG:HH21	1.73	0.54
1:m:284:THR:HG22	1:m:285:ASN:N	2.22	0.54
1:p:197:THR:O	1:p:382:HIS:NE2	2.40	0.54
1:p:363:THR:HG21	1:p:407:TRP:HB2	1.89	0.54
1:s:363:THR:HG22	1:s:364:GLN:H	1.71	0.54
1:z:282:TRP:CE3	1:7:216:SER:HB3	2.43	0.54
1:A:363:THR:HG22	1:A:364:GLN:H	1.71	0.54
1:E:563:ARG:HH21	1:E:575:VAL:HG11	1.72	0.54
1:G:219:ARG:NH2	1:G:234:ASP:OD1	2.34	0.54
1:L:363:THR:HG22	1:L:364:GLN:H	1.72	0.54
1:U:363:THR:HG21	1:U:407:TRP:HB2	1.89	0.54
1:W:184:ASN:ND2	1:W:491:ASN:OD1	2.40	0.54
1:X:109:THR:OG1	1:X:211:TYR:O	2.24	0.54
1:3:363:THR:HG22	1:3:364:GLN:H	1.71	0.54
1:h:109:THR:OG1	1:h:211:TYR:O	2.24	0.54
1:i:178:VAL:HG22	1:i:498:VAL:HG12	1.88	0.54
1:k:284:THR:HG22	1:k:285:ASN:N	2.22	0.54
1:k:323:ASN:HD21	1:l:375:ARG:HH21	1.54	0.54
1:l:284:THR:HG22	1:l:285:ASN:N	2.22	0.54
1:m:233:THR:HG23	1:m:234:ASP:H	1.73	0.54
1:n:109:THR:OG1	1:n:211:TYR:O	2.24	0.54
1:p:233:THR:HG23	1:p:234:ASP:H	1.73	0.54
1:q:197:THR:O	1:q:382:HIS:NE2	2.40	0.54
1:r:233:THR:HG23	1:r:234:ASP:H	1.73	0.54
1:v:284:THR:HG22	1:v:285:ASN:N	2.22	0.54
1:v:433:ASN:OD1	1:v:438:THR:HA	2.08	0.54
1:v:563:ARG:HH21	1:v:575:VAL:HG11	1.72	0.54
1:x:407:TRP:HE1	1:x:409:ASN:HB3	1.71	0.54
1:z:317:THR:HG21	1:z:322[B]:ARG:HH21	1.73	0.54
1:B:433:ASN:OD1	1:B:438:THR:HA	2.08	0.54
1:H:246:PHE:HD2	1:Y:542:TRP:HB3	1.72	0.54
1:I:233:THR:HG23	1:I:234:ASP:H	1.73	0.54
1:J:109:THR:OG1	1:J:211:TYR:O	2.24	0.54
1:J:284:THR:HG22	1:J:285:ASN:N	2.22	0.54
1:O:233:THR:HG23	1:O:234:ASP:H	1.73	0.54
1:P:433:ASN:OD1	1:P:438:THR:HA	2.08	0.54
1:S:433:ASN:OD1	1:S:438:THR:HA	2.08	0.54
1:U:363:THR:HG22	1:U:364:GLN:H	1.71	0.54
1:Y:178:VAL:HG22	1:Y:498:VAL:HG12	1.88	0.54
1:3:433:ASN:OD1	1:3:438:THR:HA	2.08	0.54
1:4:363:THR:HG21	1:4:407:TRP:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:109:THR:OG1	1:b:211:TYR:O	2.24	0.54
1:c:364:GLN:HB2	1:c:407:TRP:CZ3	2.39	0.54
1:d:364:GLN:HB2	1:d:407:TRP:CZ3	2.39	0.54
1:e:184:ASN:ND2	1:e:491:ASN:OD1	2.40	0.54
1:g:284:THR:HG22	1:g:285:ASN:N	2.22	0.54
1:j:219:ARG:NH2	1:j:234:ASP:OD1	2.34	0.54
1:k:216:SER:HB3	1:m:282:TRP:CE3	2.43	0.54
1:l:109:THR:OG1	1:l:211:TYR:O	2.24	0.54
1:p:364:GLN:HB2	1:p:407:TRP:CZ3	2.39	0.54
1:s:469:ASP:OD1	1:s:470:LYS:N	2.39	0.54
1:u:233:THR:HG23	1:u:234:ASP:H	1.73	0.54
1:w:363:THR:HG21	1:w:407:TRP:HB2	1.89	0.54
1:y:375:ARG:HH21	1:7:323:ASN:HD21	1.54	0.54
1:y:433:ASN:OD1	1:y:438:THR:HA	2.08	0.54
1:z:364:GLN:HB2	1:z:407:TRP:CZ3	2.39	0.54
1:8:233:THR:HG23	1:8:234:ASP:H	1.73	0.54
1:B:323:ASN:HD21	1:J:375:ARG:HH21	1.54	0.54
1:C:206:THR:OG1	1:C:381:GLN:NE2	2.41	0.54
1:F:233:THR:HG23	1:F:234:ASP:H	1.73	0.54
1:F:364:GLN:HB2	1:F:407:TRP:CZ3	2.39	0.54
1:L:206:THR:OG1	1:L:381:GLN:NE2	2.41	0.54
1:L:233:THR:HG23	1:L:234:ASP:H	1.73	0.54
1:O:347:THR:HG21	1:h:410:ASN:HB2	1.91	0.54
1:R:233:THR:HG23	1:R:234:ASP:H	1.73	0.54
1:S:233:THR:HG23	1:S:234:ASP:H	1.73	0.54
1:T:407:TRP:HE1	1:T:409:ASN:HB3	1.71	0.54
1:Z:233:THR:HG23	1:Z:234:ASP:H	1.73	0.54
1:1:206:THR:OG1	1:1:381:GLN:NE2	2.41	0.54
1:1:410:ASN:HB2	1:8:347:THR:HG21	1.91	0.54
1:2:233:THR:HG23	1:2:234:ASP:H	1.73	0.54
1:2:433:ASN:OD1	1:2:438:THR:HA	2.08	0.54
1:4:233:THR:HG23	1:4:234:ASP:H	1.73	0.54
1:6:219:ARG:NH2	1:6:234:ASP:OD1	2.34	0.54
1:6:347:THR:HG21	1:a:410:ASN:HB2	1.90	0.54
1:f:197:THR:O	1:f:382:HIS:NE2	2.40	0.54
1:f:233:THR:HG23	1:f:234:ASP:H	1.73	0.54
1:h:206:THR:OG1	1:h:381:GLN:NE2	2.41	0.54
1:j:206:THR:OG1	1:j:381:GLN:NE2	2.41	0.54
1:k:433:ASN:OD1	1:k:438:THR:HA	2.08	0.54
1:m:206:THR:OG1	1:m:381:GLN:NE2	2.41	0.54
1:m:363:THR:HG22	1:m:364:GLN:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:284:THR:HG22	1:n:285:ASN:N	2.22	0.54
1:p:219:ARG:NH2	1:p:234:ASP:OD1	2.34	0.54
1:p:284:THR:HG22	1:p:285:ASN:N	2.22	0.54
1:q:347:THR:HG21	1:s:410:ASN:HB2	1.90	0.54
1:u:206:THR:OG1	1:u:381:GLN:NE2	2.41	0.54
1:u:284:THR:HG22	1:u:285:ASN:N	2.22	0.54
1:v:233:THR:HG23	1:v:234:ASP:H	1.73	0.54
1:w:233:THR:HG23	1:w:234:ASP:H	1.73	0.54
1:z:233:THR:HG23	1:z:234:ASP:H	1.73	0.54
1:z:433:ASN:OD1	1:z:438:THR:HA	2.08	0.54
1:B:206:THR:OG1	1:B:381:GLN:NE2	2.41	0.53
1:B:216:SER:HB3	1:L:282:TRP:CE3	2.44	0.53
1:C:410:ASN:HB2	1:2:347:THR:HG21	1.90	0.53
1:D:364:GLN:HB2	1:D:407:TRP:CZ3	2.39	0.53
1:D:433:ASN:OD1	1:D:438:THR:HA	2.08	0.53
1:G:206:THR:OG1	1:G:381:GLN:NE2	2.41	0.53
1:H:206:THR:OG1	1:H:381:GLN:NE2	2.41	0.53
1:I:197:THR:O	1:I:382:HIS:NE2	2.40	0.53
1:K:284:THR:HG22	1:K:285:ASN:N	2.22	0.53
1:P:233:THR:HG23	1:P:234:ASP:H	1.73	0.53
1:R:206:THR:OG1	1:R:381:GLN:NE2	2.42	0.53
1:R:284:THR:HG22	1:R:285:ASN:N	2.22	0.53
1:R:317:THR:HA	1:R:331:VAL:HG23	1.88	0.53
1:V:364:GLN:HB2	1:V:407:TRP:CZ3	2.39	0.53
1:X:197:THR:O	1:X:382:HIS:NE2	2.40	0.53
1:1:109:THR:OG1	1:1:211:TYR:O	2.24	0.53
1:3:233:THR:HG23	1:3:234:ASP:H	1.73	0.53
1:3:347:THR:HG21	1:j:410:ASN:HB2	1.90	0.53
1:a:364:GLN:HB2	1:a:407:TRP:CZ3	2.39	0.53
1:b:197:THR:O	1:b:382:HIS:NE2	2.40	0.53
1:b:206:THR:OG1	1:b:381:GLN:NE2	2.41	0.53
1:b:433:ASN:OD1	1:b:438:THR:HA	2.08	0.53
1:i:219:ARG:NH2	1:i:234:ASP:OD1	2.34	0.53
1:m:342:HIS:CE1	1:m:444:ASN:HD22	2.27	0.53
1:q:206:THR:OG1	1:q:381:GLN:NE2	2.41	0.53
1:r:410:ASN:HB2	1:s:347:THR:HG21	1.91	0.53
1:t:282:TRP:CE3	1:u:216:SER:HB3	2.43	0.53
1:u:317:THR:HG21	1:u:322[B]:ARG:HH21	1.73	0.53
1:z:109:THR:OG1	1:z:211:TYR:O	2.24	0.53
1:7:363:THR:HG21	1:7:407:TRP:HB2	1.89	0.53
1:A:469:ASP:OD1	1:A:470:LYS:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:233:THR:HG23	1:D:234:ASP:H	1.73	0.53
1:D:284:THR:HG22	1:D:285:ASN:N	2.22	0.53
1:E:109:THR:OG1	1:E:211:TYR:O	2.24	0.53
1:E:284:THR:HG22	1:E:285:ASN:N	2.22	0.53
1:F:284:THR:HG22	1:F:285:ASN:N	2.22	0.53
1:H:342:HIS:CE1	1:H:444:ASN:HD22	2.27	0.53
1:H:364:GLN:HB2	1:H:407:TRP:CZ3	2.39	0.53
1:L:342:HIS:CE1	1:L:444:ASN:HD22	2.27	0.53
1:N:363:THR:HG21	1:N:407:TRP:HB2	1.89	0.53
1:N:433:ASN:OD1	1:N:438:THR:HA	2.08	0.53
1:O:323:ASN:HD21	1:g:375:ARG:HH21	1.54	0.53
1:R:216:SER:HB3	1:U:282:TRP:CE3	2.44	0.53
1:T:433:ASN:OD1	1:T:438:THR:HA	2.08	0.53
1:V:363:THR:HG21	1:V:407:TRP:HB2	1.89	0.53
1:W:219:ARG:HB3	1:W:350:ALA:O	2.09	0.53
1:X:206:THR:OG1	1:X:381:GLN:NE2	2.41	0.53
1:X:233:THR:HG23	1:X:234:ASP:H	1.73	0.53
1:Y:433:ASN:OD1	1:Y:438:THR:HA	2.08	0.53
1:Z:197:THR:O	1:Z:382:HIS:NE2	2.40	0.53
1:1:342:HIS:CE1	1:1:444:ASN:HD22	2.27	0.53
1:5:109:THR:OG1	1:5:211:TYR:O	2.24	0.53
1:5:284:THR:HG22	1:5:285:ASN:N	2.22	0.53
1:6:284:THR:HG22	1:6:285:ASN:N	2.22	0.53
1:6:375:ARG:HH21	1:a:323:ASN:HD21	1.54	0.53
1:d:206:THR:OG1	1:d:381:GLN:NE2	2.42	0.53
1:e:219:ARG:HB3	1:e:350:ALA:O	2.09	0.53
1:h:342:HIS:CE1	1:h:444:ASN:HD22	2.27	0.53
1:i:206:THR:OG1	1:i:381:GLN:NE2	2.41	0.53
1:k:206:THR:OG1	1:k:381:GLN:NE2	2.41	0.53
1:m:563:ARG:HH21	1:m:575:VAL:HG11	1.72	0.53
1:n:433:ASN:OD1	1:n:438:THR:HA	2.08	0.53
1:r:197:THR:O	1:r:382:HIS:NE2	2.40	0.53
1:r:317:THR:HG21	1:r:322[B]:ARG:HH21	1.73	0.53
1:r:563:ARG:HH21	1:r:575:VAL:HG11	1.72	0.53
1:t:363:THR:HG22	1:t:364:GLN:H	1.72	0.53
1:u:317:THR:HA	1:u:331:VAL:HG23	1.88	0.53
1:x:433:ASN:OD1	1:x:438:THR:HA	2.08	0.53
1:y:233:THR:HG23	1:y:234:ASP:H	1.73	0.53
1:z:284:THR:HG22	1:z:285:ASN:N	2.23	0.53
1:D:109:THR:OG1	1:D:211:TYR:O	2.24	0.53
1:E:206:THR:OG1	1:E:381:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:219:ARG:HB3	1:G:350:ALA:O	2.09	0.53
1:H:233:THR:HG23	1:H:234:ASP:H	1.73	0.53
1:I:342:HIS:CE1	1:I:444:ASN:HD22	2.27	0.53
1:K:206:THR:OG1	1:K:381:GLN:NE2	2.42	0.53
1:K:375:ARG:HH21	1:8:323:ASN:HD21	1.54	0.53
1:L:219:ARG:HB3	1:L:350:ALA:O	2.09	0.53
1:M:206:THR:OG1	1:M:381:GLN:NE2	2.42	0.53
1:M:433:ASN:OD1	1:M:438:THR:HA	2.08	0.53
1:O:282:TRP:CE3	1:g:216:SER:HB3	2.44	0.53
1:T:206:THR:OG1	1:T:381:GLN:NE2	2.41	0.53
1:U:233:THR:HG23	1:U:234:ASP:H	1.73	0.53
1:V:197:THR:O	1:V:382:HIS:NE2	2.40	0.53
1:W:197:THR:O	1:W:382:HIS:NE2	2.40	0.53
1:W:342:HIS:CE1	1:W:444:ASN:HD22	2.27	0.53
1:W:407:TRP:HE1	1:W:409:ASN:HB3	1.71	0.53
1:X:433:ASN:OD1	1:X:438:THR:HA	2.08	0.53
1:5:206:THR:OG1	1:5:381:GLN:NE2	2.41	0.53
1:6:206:THR:OG1	1:6:381:GLN:NE2	2.41	0.53
1:6:433:ASN:OD1	1:6:438:THR:HA	2.08	0.53
1:a:363:THR:HG21	1:a:407:TRP:HB2	1.89	0.53
1:b:219:ARG:HB3	1:b:350:ALA:O	2.09	0.53
1:b:233:THR:HG23	1:b:234:ASP:H	1.73	0.53
1:c:433:ASN:OD1	1:c:438:THR:HA	2.08	0.53
1:d:233:THR:HG23	1:d:234:ASP:H	1.73	0.53
1:d:342:HIS:CE1	1:d:444:ASN:HD22	2.27	0.53
1:f:317:THR:HA	1:f:331:VAL:HG23	1.88	0.53
1:g:233:THR:HG23	1:g:234:ASP:H	1.73	0.53
1:i:433:ASN:OD1	1:i:438:THR:HA	2.08	0.53
1:j:233:THR:HG23	1:j:234:ASP:H	1.73	0.53
1:m:219:ARG:HB3	1:m:350:ALA:O	2.09	0.53
1:n:206:THR:OG1	1:n:381:GLN:NE2	2.42	0.53
1:n:363:THR:HG21	1:n:407:TRP:HB2	1.89	0.53
1:q:363:THR:HG21	1:q:407:TRP:HB2	1.89	0.53
1:r:342:HIS:CE1	1:r:444:ASN:HD22	2.27	0.53
1:t:206:THR:OG1	1:t:381:GLN:NE2	2.41	0.53
1:t:233:THR:HG23	1:t:234:ASP:H	1.73	0.53
1:u:184:ASN:ND2	1:u:491:ASN:OD1	2.40	0.53
1:x:206:THR:OG1	1:x:381:GLN:NE2	2.41	0.53
1:y:216:SER:HB3	1:7:282:TRP:CE3	2.44	0.53
1:7:433:ASN:OD1	1:7:438:THR:HA	2.09	0.53
1:A:284:THR:HG22	1:A:285:ASN:N	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ARG:HB3	1:B:350:ALA:O	2.09	0.53
1:B:347:THR:HG21	1:L:410:ASN:HB2	1.91	0.53
1:C:233:THR:HG23	1:C:234:ASP:H	1.73	0.53
1:D:216:SER:HB3	1:P:282:TRP:CE3	2.44	0.53
1:E:363:THR:HG21	1:E:407:TRP:HB2	1.89	0.53
1:E:433:ASN:OD1	1:E:438:THR:HA	2.08	0.53
1:F:219:ARG:NH2	1:F:234:ASP:OD1	2.34	0.53
1:F:219:ARG:HB3	1:F:350:ALA:O	2.09	0.53
1:G:109:THR:OG1	1:G:211:TYR:O	2.24	0.53
1:G:363:THR:HG21	1:G:407:TRP:HB2	1.89	0.53
1:I:206:THR:OG1	1:I:381:GLN:NE2	2.41	0.53
1:I:563:ARG:HH21	1:I:575:VAL:HG11	1.72	0.53
1:J:206:THR:OG1	1:J:381:GLN:NE2	2.41	0.53
1:J:219:ARG:HB3	1:J:350:ALA:O	2.09	0.53
1:K:233:THR:HG23	1:K:234:ASP:H	1.73	0.53
1:L:563:ARG:HH21	1:L:575:VAL:HG11	1.72	0.53
1:M:219:ARG:NH2	1:M:234:ASP:OD1	2.34	0.53
1:M:342:HIS:CE1	1:M:444:ASN:HD22	2.27	0.53
1:N:282:TRP:CE3	1:P:216:SER:HB3	2.44	0.53
1:Q:342:HIS:CE1	1:Q:444:ASN:HD22	2.27	0.53
1:T:363:THR:HG21	1:T:407:TRP:HB2	1.89	0.53
1:U:206:THR:OG1	1:U:381:GLN:NE2	2.41	0.53
1:V:282:TRP:CE3	1:5:216:SER:HB3	2.44	0.53
1:V:410:ASN:HB2	1:5:347:THR:HG21	1.91	0.53
1:W:284:THR:HG22	1:W:285:ASN:N	2.22	0.53
1:X:219:ARG:HB3	1:X:350:ALA:O	2.09	0.53
1:Y:206:THR:OG1	1:Y:381:GLN:NE2	2.41	0.53
1:Z:433:ASN:OD1	1:Z:438:THR:HA	2.08	0.53
1:5:219:ARG:NH2	1:5:234:ASP:OD1	2.34	0.53
1:5:433:ASN:OD1	1:5:438:THR:HA	2.08	0.53
1:6:109:THR:OG1	1:6:211:TYR:O	2.24	0.53
1:c:206:THR:OG1	1:c:381:GLN:NE2	2.41	0.53
1:c:323:ASN:HD21	1:d:375:ARG:HH21	1.54	0.53
1:d:109:THR:OG1	1:d:211:TYR:O	2.24	0.53
1:d:197:THR:O	1:d:382:HIS:NE2	2.40	0.53
1:e:284:THR:HG22	1:e:285:ASN:N	2.22	0.53
1:e:342:HIS:CE1	1:e:444:ASN:HD22	2.27	0.53
1:f:433:ASN:OD1	1:f:438:THR:HA	2.08	0.53
1:g:206:THR:OG1	1:g:381:GLN:NE2	2.42	0.53
1:l:206:THR:OG1	1:l:381:GLN:NE2	2.41	0.53
1:n:347:THR:HG21	1:p:410:ASN:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:109:THR:OG1	1:q:211:TYR:O	2.24	0.53
1:q:219:ARG:HB3	1:q:350:ALA:O	2.09	0.53
1:r:206:THR:OG1	1:r:381:GLN:NE2	2.41	0.53
1:r:282:TRP:CE3	1:s:216:SER:HB3	2.44	0.53
1:u:219:ARG:HB3	1:u:350:ALA:O	2.09	0.53
1:v:219:ARG:HB3	1:v:350:ALA:O	2.09	0.53
1:x:363:THR:HG21	1:x:407:TRP:HB2	1.89	0.53
1:y:282:TRP:CE3	1:z:216:SER:HB3	2.44	0.53
1:z:206:THR:OG1	1:z:381:GLN:NE2	2.41	0.53
1:7:206:THR:OG1	1:7:381:GLN:NE2	2.41	0.53
1:A:410:ASN:HB2	1:G:347:THR:HG21	1.91	0.53
1:B:233:THR:HG23	1:B:234:ASP:H	1.73	0.53
1:D:206:THR:OG1	1:D:381:GLN:NE2	2.41	0.53
1:E:219:ARG:HB3	1:E:350:ALA:O	2.09	0.53
1:E:347:THR:HG21	1:F:410:ASN:HB2	1.91	0.53
1:H:184:ASN:ND2	1:H:491:ASN:OD1	2.40	0.53
1:H:197:THR:O	1:H:382:HIS:NE2	2.40	0.53
1:H:290:GLN:OE1	1:W:191:ALA:HA	2.08	0.53
1:K:216:SER:HB3	1:8:282:TRP:CE3	2.44	0.53
1:K:433:ASN:OD1	1:K:438:THR:HA	2.08	0.53
1:N:206:THR:OG1	1:N:381:GLN:NE2	2.41	0.53
1:O:219:ARG:HB3	1:O:350:ALA:O	2.09	0.53
1:R:219:ARG:HB3	1:R:350:ALA:O	2.09	0.53
1:S:219:ARG:HB3	1:S:350:ALA:O	2.09	0.53
1:W:206:THR:OG1	1:W:381:GLN:NE2	2.41	0.53
1:Z:184:ASN:ND2	1:Z:491:ASN:OD1	2.40	0.53
1:Z:317:THR:HA	1:Z:331:VAL:HG23	1.88	0.53
1:6:216:SER:HB3	1:a:282:TRP:CE3	2.44	0.53
1:a:233:THR:HG23	1:a:234:ASP:H	1.73	0.53
1:c:410:ASN:HB2	1:d:347:THR:HG21	1.91	0.53
1:d:317:THR:HG21	1:d:322[B]:ARG:HH21	1.72	0.53
1:e:197:THR:O	1:e:382:HIS:NE2	2.40	0.53
1:g:317:THR:HG21	1:g:322[B]:ARG:HH21	1.74	0.53
1:i:342:HIS:CE1	1:i:444:ASN:HD22	2.27	0.53
1:i:410:ASN:HB2	1:j:347:THR:HG21	1.91	0.53
1:k:219:ARG:HB3	1:k:350:ALA:O	2.09	0.53
1:k:317:THR:HG21	1:k:322[B]:ARG:HH21	1.73	0.53
1:l:219:ARG:HB3	1:l:350:ALA:O	2.09	0.53
1:o:342:HIS:CE1	1:o:444:ASN:HD22	2.27	0.53
1:o:433:ASN:OD1	1:o:438:THR:HA	2.08	0.53
1:q:375:ARG:HH21	1:s:323:ASN:HD21	1.54	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:216:SER:HB3	1:v:282:TRP:CE3	2.44	0.53
1:t:433:ASN:OD1	1:t:438:THR:HA	2.08	0.53
1:x:184:ASN:ND2	1:x:491:ASN:OD1	2.40	0.53
1:z:563:ARG:HH21	1:z:575:VAL:HG11	1.72	0.53
1:8:219:ARG:HB3	1:8:350:ALA:O	2.09	0.53
1:C:347:THR:HG21	1:M:410:ASN:HB2	1.91	0.53
1:C:563:ARG:HH21	1:C:575:VAL:HG11	1.72	0.53
1:D:219:ARG:HB3	1:D:350:ALA:O	2.09	0.53
1:D:563:ARG:HH21	1:D:575:VAL:HG11	1.72	0.53
1:E:216:SER:HB3	1:F:282:TRP:CE3	2.44	0.53
1:F:216:SER:HB3	1:Q:282:TRP:CE3	2.44	0.53
1:G:233:THR:HG23	1:G:234:ASP:H	1.73	0.53
1:H:219:ARG:HB3	1:H:350:ALA:O	2.09	0.53
1:Q:433:ASN:OD1	1:Q:438:THR:HA	2.08	0.53
1:R:184:ASN:ND2	1:R:491:ASN:OD1	2.40	0.53
1:S:114:VAL:HG13	1:S:198:LEU:HD11	1.91	0.53
1:S:282:TRP:CE3	1:U:216:SER:HB3	2.44	0.53
1:T:233:THR:HG23	1:T:234:ASP:H	1.73	0.53
1:T:282:TRP:CE3	1:4:216:SER:HB3	2.44	0.53
1:T:375:ARG:HH21	1:f:323:ASN:HD21	1.54	0.53
1:V:233:THR:HG23	1:V:234:ASP:H	1.73	0.53
1:Y:219:ARG:HB3	1:Y:350:ALA:O	2.09	0.53
1:Y:565:LEU:HD21	1:Z:543:ASN:HD22	1.73	0.53
1:2:219:ARG:HB3	1:2:350:ALA:O	2.09	0.53
1:3:219:ARG:HB3	1:3:350:ALA:O	2.09	0.53
1:4:206:THR:OG1	1:4:381:GLN:NE2	2.42	0.53
1:a:197:THR:O	1:a:382:HIS:NE2	2.40	0.53
1:d:219:ARG:HB3	1:d:350:ALA:O	2.09	0.53
1:e:407:TRP:HE1	1:e:409:ASN:HB3	1.71	0.53
1:f:184:ASN:ND2	1:f:491:ASN:OD1	2.40	0.53
1:g:433:ASN:OD1	1:g:438:THR:HA	2.08	0.53
1:i:233:THR:HG23	1:i:234:ASP:H	1.73	0.53
1:m:219:ARG:NH2	1:m:234:ASP:OD1	2.34	0.53
1:m:433:ASN:OD1	1:m:438:THR:HA	2.08	0.53
1:n:216:SER:HB3	1:p:282:TRP:CE3	2.44	0.53
1:o:282:TRP:CE3	1:p:216:SER:HB3	2.44	0.53
1:p:219:ARG:HB3	1:p:350:ALA:O	2.09	0.53
1:s:184:ASN:ND2	1:s:491:ASN:OD1	2.40	0.53
1:s:284:THR:HG22	1:s:285:ASN:N	2.22	0.53
1:w:206:THR:OG1	1:w:381:GLN:NE2	2.42	0.53
1:w:216:SER:HB3	1:x:282:TRP:CE3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:233:THR:HG23	1:x:234:ASP:H	1.73	0.53
1:8:563:ARG:HH21	1:8:575:VAL:HG11	1.72	0.53
1:A:184:ASN:ND2	1:A:491:ASN:OD1	2.40	0.53
1:A:206:THR:OG1	1:A:381:GLN:NE2	2.41	0.53
1:A:233:THR:HG23	1:A:234:ASP:H	1.73	0.53
1:B:184:ASN:ND2	1:B:491:ASN:OD1	2.40	0.53
1:G:284:THR:HG22	1:G:285:ASN:N	2.22	0.53
1:L:433:ASN:OD1	1:L:438:THR:HA	2.08	0.53
1:M:233:THR:HG23	1:M:234:ASP:H	1.73	0.53
1:N:197:THR:O	1:N:382:HIS:NE2	2.40	0.53
1:U:433:ASN:OD1	1:U:438:THR:HA	2.08	0.53
1:V:323:ASN:HD21	1:5:375:ARG:HH21	1.54	0.53
1:Y:342:HIS:CE1	1:Y:444:ASN:HD22	2.27	0.53
1:Z:323:ASN:HD21	1:x:375:ARG:HH21	1.54	0.53
1:a:184:ASN:ND2	1:a:491:ASN:OD1	2.40	0.53
1:a:219:ARG:HB3	1:a:350:ALA:O	2.09	0.53
1:c:219:ARG:HB3	1:c:350:ALA:O	2.09	0.53
1:d:184:ASN:ND2	1:d:491:ASN:OD1	2.40	0.53
1:e:206:THR:OG1	1:e:381:GLN:NE2	2.41	0.53
1:j:342:HIS:CE1	1:j:444:ASN:HD22	2.27	0.53
1:k:233:THR:HG23	1:k:234:ASP:H	1.73	0.53
1:k:347:THR:HG21	1:m:410:ASN:HB2	1.91	0.53
1:l:342:HIS:CE1	1:l:444:ASN:HD22	2.27	0.53
1:n:219:ARG:HB3	1:n:350:ALA:O	2.09	0.53
1:q:233:THR:HG23	1:q:234:ASP:H	1.73	0.53
1:r:219:ARG:HB3	1:r:350:ALA:O	2.08	0.53
1:s:206:THR:OG1	1:s:381:GLN:NE2	2.41	0.53
1:s:233:THR:HG23	1:s:234:ASP:H	1.73	0.53
1:t:563:ARG:HH21	1:t:575:VAL:HG11	1.72	0.53
1:w:563:ARG:HH21	1:w:575:VAL:HG11	1.72	0.53
1:z:219:ARG:HB3	1:z:350:ALA:O	2.09	0.53
1:A:216:SER:HB3	1:I:282:TRP:CE3	2.44	0.53
1:C:219:ARG:HB3	1:C:350:ALA:O	2.09	0.53
1:C:342:HIS:CE1	1:C:444:ASN:HD22	2.27	0.53
1:H:323:ASN:HD21	1:W:375:ARG:HH21	1.56	0.53
1:I:219:ARG:HB3	1:I:350:ALA:O	2.09	0.53
1:J:342:HIS:CE1	1:J:444:ASN:HD22	2.27	0.53
1:K:219:ARG:HB3	1:K:350:ALA:O	2.09	0.53
1:N:114:VAL:HG13	1:N:198:LEU:HD11	1.91	0.53
1:O:433:ASN:OD1	1:O:438:THR:HA	2.08	0.53
1:O:563:ARG:HH21	1:O:575:VAL:HG11	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:282:TRP:CE3	1:S:216:SER:HB3	2.44	0.53
1:R:347:THR:HG21	1:U:410:ASN:HB2	1.91	0.53
1:T:216:SER:HB3	1:f:282:TRP:CE3	2.44	0.53
1:T:219:ARG:HB3	1:T:350:ALA:O	2.09	0.53
1:V:184:ASN:ND2	1:V:491:ASN:OD1	2.40	0.53
1:V:219:ARG:HB3	1:V:350:ALA:O	2.09	0.53
1:V:433:ASN:OD1	1:V:438:THR:HA	2.08	0.53
1:X:260:THR:HG21	1:Y:173:THR:HG22	1.90	0.53
1:Z:114:VAL:HG13	1:Z:198:LEU:HD11	1.91	0.53
1:Z:347:THR:HG21	1:w:410:ASN:HB2	1.90	0.53
1:4:114:VAL:HG13	1:4:198:LEU:HD11	1.91	0.53
1:4:563:ARG:HH21	1:4:575:VAL:HG11	1.72	0.53
1:c:184:ASN:ND2	1:c:491:ASN:OD1	2.40	0.53
1:e:233:THR:HG23	1:e:234:ASP:H	1.73	0.53
1:e:433:ASN:OD1	1:e:438:THR:HA	2.08	0.53
1:j:317:THR:HG21	1:j:322[B]:ARG:HH21	1.73	0.53
1:j:563:ARG:HH21	1:j:575:VAL:HG11	1.72	0.53
1:k:364:GLN:HB2	1:k:407:TRP:CZ3	2.39	0.53
1:n:114:VAL:HG13	1:n:198:LEU:HD11	1.91	0.53
1:q:284:THR:HG22	1:q:285:ASN:N	2.22	0.53
1:r:433:ASN:OD1	1:r:438:THR:HA	2.08	0.53
1:t:410:ASN:HB2	1:u:347:THR:HG21	1.91	0.53
1:u:282:TRP:CE3	1:v:216:SER:HB3	2.44	0.53
1:v:114:VAL:HG13	1:v:198:LEU:HD11	1.91	0.53
1:x:219:ARG:HB3	1:x:350:ALA:O	2.09	0.53
1:7:114:VAL:HG13	1:7:198:LEU:HD11	1.91	0.53
1:7:197:THR:O	1:7:382:HIS:NE2	2.40	0.53
1:B:197:THR:O	1:B:382:HIS:NE2	2.40	0.53
1:B:364:GLN:HB2	1:B:407:TRP:CZ3	2.39	0.53
1:C:282:TRP:CE3	1:2:216:SER:HB3	2.44	0.53
1:C:433:ASN:OD1	1:C:438:THR:HA	2.08	0.53
1:E:114:VAL:HG13	1:E:198:LEU:HD11	1.91	0.53
1:F:342:HIS:CE1	1:F:444:ASN:HD22	2.27	0.53
1:G:433:ASN:OD1	1:G:438:THR:HA	2.08	0.53
1:N:558:TYR:OH	1:N:576:PRO:O	2.20	0.53
1:O:216:SER:HB3	1:h:282:TRP:CE3	2.44	0.53
1:S:342:HIS:CE1	1:S:444:ASN:HD22	2.27	0.53
1:W:233:THR:HG23	1:W:234:ASP:H	1.73	0.53
1:W:410:ASN:HB2	1:Y:347:THR:HG21	1.91	0.53
1:W:433:ASN:OD1	1:W:438:THR:HA	2.08	0.53
1:Z:219:ARG:HB3	1:Z:350:ALA:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:342:HIS:CE1	1:Z:444:ASN:HD22	2.27	0.53
1:2:384:GLN:O	1:2:573:THR:OG1	2.27	0.53
1:3:216:SER:HB3	1:j:282:TRP:CE3	2.44	0.53
1:c:342:HIS:CE1	1:c:444:ASN:HD22	2.27	0.53
1:d:410:ASN:HB2	1:e:347:THR:HG21	1.91	0.53
1:g:219:ARG:HB3	1:g:350:ALA:O	2.09	0.53
1:g:282:TRP:CE3	1:h:216:SER:HB3	2.44	0.53
1:h:219:ARG:HB3	1:h:350:ALA:O	2.09	0.53
1:j:219:ARG:HB3	1:j:350:ALA:O	2.09	0.53
1:j:433:ASN:OD1	1:j:438:THR:HA	2.08	0.53
1:k:184:ASN:ND2	1:k:491:ASN:OD1	2.40	0.53
1:p:342:HIS:CE1	1:p:444:ASN:HD22	2.27	0.53
1:t:342:HIS:CE1	1:t:444:ASN:HD22	2.27	0.53
1:u:114:VAL:HG13	1:u:198:LEU:HD11	1.91	0.53
1:w:114:VAL:HG13	1:w:198:LEU:HD11	1.91	0.53
1:z:184:ASN:ND2	1:z:491:ASN:OD1	2.40	0.53
1:8:433:ASN:OD1	1:8:438:THR:HA	2.08	0.53
1:A:323:ASN:HD21	1:G:375:ARG:HH21	1.54	0.53
1:B:282:TRP:CE3	1:J:216:SER:HB3	2.43	0.53
1:D:375:ARG:HH21	1:P:323:ASN:HD21	1.54	0.53
1:F:347:THR:HG21	1:Q:410:ASN:HB2	1.91	0.53
1:I:433:ASN:OD1	1:I:438:THR:HA	2.08	0.53
1:K:114:VAL:HG13	1:K:198:LEU:HD11	1.91	0.53
1:K:260:THR:HG21	1:L:173:THR:HG22	1.91	0.53
1:L:219:ARG:NH2	1:L:234:ASP:OD1	2.34	0.53
1:M:219:ARG:HB3	1:M:350:ALA:O	2.09	0.53
1:Q:233:THR:HG23	1:Q:234:ASP:H	1.73	0.53
1:R:114:VAL:HG13	1:R:198:LEU:HD11	1.91	0.53
1:U:342:HIS:CE1	1:U:444:ASN:HD22	2.27	0.53
1:U:563:ARG:HH21	1:U:575:VAL:HG11	1.72	0.53
1:V:342:HIS:CE1	1:V:444:ASN:HD22	2.27	0.53
1:W:114:VAL:HG13	1:W:198:LEU:HD11	1.91	0.53
1:X:342:HIS:CE1	1:X:444:ASN:HD22	2.27	0.53
1:Z:282:TRP:CE3	1:x:216:SER:HB3	2.44	0.53
1:1:219:ARG:NH2	1:1:234:ASP:OD1	2.34	0.53
1:1:219:ARG:HB3	1:1:350:ALA:O	2.09	0.53
1:2:342:HIS:CE1	1:2:444:ASN:HD22	2.27	0.53
1:4:384:GLN:O	1:4:573:THR:OG1	2.27	0.53
1:5:233:THR:HG23	1:5:234:ASP:H	1.73	0.53
1:6:342:HIS:CE1	1:6:444:ASN:HD22	2.27	0.53
1:a:342:HIS:CE1	1:a:444:ASN:HD22	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:433:ASN:OD1	1:a:438:THR:HA	2.08	0.53
1:e:114:VAL:HG13	1:e:198:LEU:HD11	1.91	0.53
1:f:317:THR:HG21	1:f:322[B]:ARG:HH21	1.74	0.53
1:f:342:HIS:CE1	1:f:444:ASN:HD22	2.27	0.53
1:g:114:VAL:HG13	1:g:198:LEU:HD11	1.91	0.53
1:i:219:ARG:HB3	1:i:350:ALA:O	2.09	0.53
1:n:184:ASN:ND2	1:n:491:ASN:OD1	2.40	0.53
1:q:433:ASN:OD1	1:q:438:THR:HA	2.08	0.53
1:w:384:GLN:O	1:w:573:THR:OG1	2.27	0.53
1:w:433:ASN:OD1	1:w:438:THR:HA	2.08	0.53
1:7:565:LEU:HD21	1:8:543:ASN:HD22	1.74	0.53
1:A:114:VAL:HG13	1:A:198:LEU:HD11	1.91	0.52
1:D:347:THR:HG21	1:P:410:ASN:HB2	1.91	0.52
1:E:282:TRP:CE3	1:Q:216:SER:HB3	2.44	0.52
1:I:114:VAL:HG13	1:I:198:LEU:HD11	1.91	0.52
1:J:282:TRP:CE3	1:L:216:SER:HB3	2.44	0.52
1:J:433:ASN:OD1	1:J:438:THR:HA	2.08	0.52
1:L:109:THR:OG1	1:L:211:TYR:O	2.24	0.52
1:N:364:GLN:HB2	1:N:407:TRP:CZ3	2.39	0.52
1:O:410:ASN:HB2	1:g:347:THR:HG21	1.91	0.52
1:T:114:VAL:HG13	1:T:198:LEU:HD11	1.91	0.52
1:Y:184:ASN:ND2	1:Y:491:ASN:OD1	2.40	0.52
1:1:282:TRP:CE3	1:8:216:SER:HB3	2.44	0.52
1:e:109:THR:OG1	1:e:211:TYR:O	2.24	0.52
1:f:114:VAL:HG13	1:f:198:LEU:HD11	1.91	0.52
1:f:219:ARG:HB3	1:f:350:ALA:O	2.09	0.52
1:k:282:TRP:CE3	1:l:216:SER:HB3	2.44	0.52
1:l:50:GLN:HG3	1:l:52:HIS:CE1	2.45	0.52
1:l:433:ASN:OD1	1:l:438:THR:HA	2.08	0.52
1:o:206:THR:OG1	1:o:381:GLN:NE2	2.41	0.52
1:o:233:THR:HG23	1:o:234:ASP:H	1.73	0.52
1:s:114:VAL:HG13	1:s:198:LEU:HD11	1.91	0.52
1:t:184:ASN:ND2	1:t:491:ASN:OD1	2.40	0.52
1:v:342:HIS:CE1	1:v:444:ASN:HD22	2.27	0.52
1:x:114:VAL:HG13	1:x:198:LEU:HD11	1.91	0.52
1:y:219:ARG:HB3	1:y:350:ALA:O	2.09	0.52
1:y:342:HIS:CE1	1:y:444:ASN:HD22	2.27	0.52
1:D:184:ASN:ND2	1:D:491:ASN:OD1	2.40	0.52
1:F:50:GLN:HG3	1:F:52:HIS:CE1	2.45	0.52
1:J:50:GLN:HG3	1:J:52:HIS:CE1	2.45	0.52
1:M:114:VAL:HG13	1:M:198:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:410:ASN:HB2	1:P:347:THR:HG21	1.91	0.52
1:O:206:THR:OG1	1:O:381:GLN:NE2	2.41	0.52
1:P:219:ARG:HB3	1:P:350:ALA:O	2.09	0.52
1:Q:206:THR:OG1	1:Q:381:GLN:NE2	2.41	0.52
1:R:433:ASN:OD1	1:R:438:THR:HA	2.08	0.52
1:T:342:HIS:CE1	1:T:444:ASN:HD22	2.27	0.52
1:U:219:ARG:HB3	1:U:350:ALA:O	2.09	0.52
1:V:50:GLN:HG3	1:V:52:HIS:CE1	2.45	0.52
1:1:433:ASN:OD1	1:1:438:THR:HA	2.08	0.52
1:3:342:HIS:CE1	1:3:444:ASN:HD22	2.27	0.52
1:4:109:THR:OG1	1:4:211:TYR:O	2.24	0.52
1:4:433:ASN:OD1	1:4:438:THR:HA	2.08	0.52
1:5:219:ARG:HB3	1:5:350:ALA:O	2.08	0.52
1:5:342:HIS:CE1	1:5:444:ASN:HD22	2.27	0.52
1:6:233:THR:HG23	1:6:234:ASP:H	1.73	0.52
1:a:50:GLN:HG3	1:a:52:HIS:CE1	2.45	0.52
1:b:342:HIS:CE1	1:b:444:ASN:HD22	2.27	0.52
1:c:50:GLN:HG3	1:c:52:HIS:CE1	2.45	0.52
1:c:282:TRP:CE3	1:d:216:SER:HB3	2.44	0.52
1:c:347:THR:HG21	1:e:410:ASN:HB2	1.92	0.52
1:h:317:THR:HG21	1:h:322[B]:ARG:HH21	1.74	0.52
1:i:114:VAL:HG13	1:i:198:LEU:HD11	1.91	0.52
1:k:114:VAL:HG13	1:k:198:LEU:HD11	1.91	0.52
1:k:197:THR:O	1:k:382:HIS:NE2	2.40	0.52
1:o:364:GLN:HB2	1:o:407:TRP:CZ3	2.39	0.52
1:o:410:ASN:HB2	1:p:347:THR:HG21	1.91	0.52
1:p:50:GLN:HG3	1:p:52:HIS:CE1	2.45	0.52
1:q:282:TRP:CE3	1:r:216:SER:HB3	2.44	0.52
1:t:219:ARG:HB3	1:t:350:ALA:O	2.09	0.52
1:v:364:GLN:HB2	1:v:407:TRP:CZ3	2.39	0.52
1:w:50:GLN:HG3	1:w:52:HIS:CE1	2.45	0.52
1:y:323:ASN:HD21	1:z:375:ARG:HH21	1.54	0.52
1:y:347:THR:HG21	1:7:410:ASN:HB2	1.91	0.52
1:y:410:ASN:HB2	1:z:347:THR:HG21	1.91	0.52
1:7:364:GLN:HB2	1:7:407:TRP:CZ3	2.39	0.52
1:8:206:THR:OG1	1:8:381:GLN:NE2	2.41	0.52
1:A:565:LEU:HD21	1:F:543:ASN:HD22	1.75	0.52
1:B:114:VAL:HG13	1:B:198:LEU:HD11	1.91	0.52
1:B:308:THR:O	1:B:313:ARG:NH2	2.43	0.52
1:E:184:ASN:ND2	1:E:491:ASN:OD1	2.40	0.52
1:G:342:HIS:CE1	1:G:444:ASN:HD22	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:565:LEU:HD21	1:H:543:ASN:HD22	1.74	0.52
1:J:114:VAL:HG13	1:J:198:LEU:HD11	1.91	0.52
1:N:342:HIS:CE1	1:N:444:ASN:HD22	2.27	0.52
1:P:342:HIS:CE1	1:P:444:ASN:HD22	2.27	0.52
1:Q:364:GLN:HB2	1:Q:407:TRP:CZ3	2.39	0.52
1:U:184:ASN:ND2	1:U:491:ASN:OD1	2.40	0.52
1:V:216:SER:HB3	1:X:282:TRP:CE3	2.44	0.52
1:Y:50:GLN:HG3	1:Y:52:HIS:CE1	2.45	0.52
1:Y:233:THR:HG23	1:Y:234:ASP:H	1.73	0.52
1:Z:50:GLN:HG3	1:Z:52:HIS:CE1	2.45	0.52
1:Z:206:THR:OG1	1:Z:381:GLN:NE2	2.42	0.52
1:1:565:LEU:HD21	1:w:543:ASN:HD22	1.75	0.52
1:4:50:GLN:HG3	1:4:52:HIS:CE1	2.45	0.52
1:4:410:ASN:HB2	1:f:347:THR:HG21	1.91	0.52
1:5:114:VAL:HG13	1:5:198:LEU:HD11	1.91	0.52
1:a:216:SER:HB3	1:b:282:TRP:CE3	2.44	0.52
1:c:233:THR:HG23	1:c:234:ASP:H	1.73	0.52
1:d:282:TRP:CE3	1:e:216:SER:HB3	2.44	0.52
1:f:50:GLN:HG3	1:f:52:HIS:CE1	2.45	0.52
1:f:206:THR:OG1	1:f:381:GLN:NE2	2.41	0.52
1:g:50:GLN:HG3	1:g:52:HIS:CE1	2.45	0.52
1:g:410:ASN:HB2	1:h:347:THR:HG21	1.90	0.52
1:h:219:ARG:NH2	1:h:234:ASP:OD1	2.34	0.52
1:h:433:ASN:OD1	1:h:438:THR:HA	2.08	0.52
1:j:114:VAL:HG13	1:j:198:LEU:HD11	1.91	0.52
1:k:109:THR:OG1	1:k:211:TYR:O	2.24	0.52
1:k:308:THR:O	1:k:313:ARG:NH2	2.43	0.52
1:l:282:TRP:CE3	1:m:216:SER:HB3	2.44	0.52
1:m:50:GLN:HG3	1:m:52:HIS:CE1	2.45	0.52
1:m:109:THR:OG1	1:m:211:TYR:O	2.24	0.52
1:n:282:TRP:CE3	1:o:216:SER:HB3	2.44	0.52
1:n:342:HIS:CE1	1:n:444:ASN:HD22	2.27	0.52
1:p:308:THR:O	1:p:313:ARG:NH2	2.43	0.52
1:p:433:ASN:OD1	1:p:438:THR:HA	2.08	0.52
1:p:543:ASN:HD22	1:s:565:LEU:HD21	1.75	0.52
1:q:50:GLN:HG3	1:q:52:HIS:CE1	2.44	0.52
1:r:114:VAL:HG13	1:r:198:LEU:HD11	1.91	0.52
1:u:433:ASN:OD1	1:u:438:THR:HA	2.08	0.52
1:x:342:HIS:CE1	1:x:444:ASN:HD22	2.27	0.52
1:A:308:THR:O	1:A:313:ARG:NH2	2.43	0.52
1:B:50:GLN:HG3	1:B:52:HIS:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:114:VAL:HG13	1:C:198:LEU:HD11	1.91	0.52
1:C:308:THR:O	1:C:313:ARG:NH2	2.43	0.52
1:E:342:HIS:CE1	1:E:444:ASN:HD22	2.27	0.52
1:F:308:THR:O	1:F:313:ARG:NH2	2.43	0.52
1:F:433:ASN:OD1	1:F:438:THR:HA	2.08	0.52
1:I:50:GLN:HG3	1:I:52:HIS:CE1	2.44	0.52
1:K:50:GLN:HG3	1:K:52:HIS:CE1	2.45	0.52
1:K:347:THR:HG21	1:8:410:ASN:HB2	1.91	0.52
1:L:50:GLN:HG3	1:L:52:HIS:CE1	2.45	0.52
1:N:308:THR:O	1:N:313:ARG:NH2	2.43	0.52
1:N:317:THR:HG21	1:N:322[B]:ARG:HH21	1.73	0.52
1:N:565:LEU:HD21	1:O:543:ASN:HD22	1.75	0.52
1:O:114:VAL:HG13	1:O:198:LEU:HD11	1.91	0.52
1:P:206:THR:OG1	1:P:381:GLN:NE2	2.41	0.52
1:S:50:GLN:HG3	1:S:52:HIS:CE1	2.45	0.52
1:S:364:GLN:HB2	1:S:407:TRP:CZ3	2.39	0.52
1:S:543:ASN:HD22	1:T:565:LEU:HD21	1.75	0.52
1:V:206:THR:OG1	1:V:381:GLN:NE2	2.41	0.52
1:V:308:THR:O	1:V:313:ARG:NH2	2.43	0.52
1:W:109:THR:OG1	1:W:211:TYR:O	2.24	0.52
1:Z:109:THR:OG1	1:Z:211:TYR:O	2.24	0.52
1:Z:216:SER:HB3	1:w:282:TRP:CE3	2.44	0.52
1:Z:308:THR:O	1:Z:313:ARG:NH2	2.43	0.52
1:3:50:GLN:HG3	1:3:52:HIS:CE1	2.45	0.52
1:5:123:PHE:O	1:5:462:TYR:OH	2.16	0.52
1:a:206:THR:OG1	1:a:381:GLN:NE2	2.41	0.52
1:a:308:THR:O	1:a:313:ARG:NH2	2.43	0.52
1:b:308:THR:O	1:b:313:ARG:NH2	2.43	0.52
1:b:565:LEU:HD21	1:e:543:ASN:HD22	1.74	0.52
1:d:433:ASN:OD1	1:d:438:THR:HA	2.08	0.52
1:e:219:ARG:NH2	1:e:234:ASP:OD1	2.34	0.52
1:f:109:THR:OG1	1:f:211:TYR:O	2.24	0.52
1:f:308:THR:O	1:f:313:ARG:NH2	2.43	0.52
1:g:342:HIS:CE1	1:g:444:ASN:HD22	2.27	0.52
1:k:50:GLN:HG3	1:k:52:HIS:CE1	2.45	0.52
1:l:114:VAL:HG13	1:l:198:LEU:HD11	1.91	0.52
1:p:206:THR:OG1	1:p:381:GLN:NE2	2.41	0.52
1:p:317:THR:HG21	1:p:322[B]:ARG:HH21	1.74	0.52
1:s:50:GLN:HG3	1:s:52:HIS:CE1	2.45	0.52
1:s:308:THR:O	1:s:313:ARG:NH2	2.43	0.52
1:u:109:THR:OG1	1:u:211:TYR:O	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:50:GLN:HG3	1:v:52:HIS:CE1	2.45	0.52
1:w:342:HIS:CE1	1:w:444:ASN:HD22	2.27	0.52
1:y:206:THR:OG1	1:y:381:GLN:NE2	2.42	0.52
1:z:50:GLN:HG3	1:z:52:HIS:CE1	2.45	0.52
1:7:308:THR:O	1:7:313:ARG:NH2	2.43	0.52
1:A:50:GLN:HG3	1:A:52:HIS:CE1	2.45	0.52
1:A:197:THR:O	1:A:382:HIS:NE2	2.40	0.52
1:B:342:HIS:CE1	1:B:444:ASN:HD22	2.27	0.52
1:C:216:SER:HB3	1:M:282:TRP:CE3	2.44	0.52
1:C:565:LEU:HD21	1:L:543:ASN:HD22	1.74	0.52
1:D:50:GLN:HG3	1:D:52:HIS:CE1	2.44	0.52
1:D:214:TYR:OH	1:P:327:GLU:OE2	2.21	0.52
1:E:278:LEU:O	1:E:580:ARG:HA	2.10	0.52
1:F:206:THR:OG1	1:F:381:GLN:NE2	2.41	0.52
1:G:50:GLN:HG3	1:G:52:HIS:CE1	2.45	0.52
1:H:308:THR:O	1:H:313:ARG:NH2	2.43	0.52
1:H:433:ASN:OD1	1:H:438:THR:HA	2.08	0.52
1:K:342:HIS:CE1	1:K:444:ASN:HD22	2.27	0.52
1:L:308:THR:O	1:L:313:ARG:NH2	2.43	0.52
1:M:278:LEU:O	1:M:580:ARG:HA	2.10	0.52
1:N:219:ARG:HB3	1:N:350:ALA:O	2.09	0.52
1:N:233:THR:HG23	1:N:234:ASP:H	1.73	0.52
1:S:558:TYR:OH	1:S:576:PRO:O	2.20	0.52
1:T:50:GLN:HG3	1:T:52:HIS:CE1	2.45	0.52
1:T:410:ASN:HB2	1:4:347:THR:HG21	1.90	0.52
1:W:219:ARG:NH2	1:W:234:ASP:OD1	2.34	0.52
1:X:50:GLN:HG3	1:X:52:HIS:CE1	2.44	0.52
1:X:308:THR:O	1:X:313:ARG:NH2	2.43	0.52
1:2:50:GLN:HG3	1:2:52:HIS:CE1	2.45	0.52
1:4:219:ARG:HB3	1:4:350:ALA:O	2.09	0.52
1:4:278:LEU:O	1:4:580:ARG:HA	2.10	0.52
1:4:282:TRP:CE3	1:f:216:SER:HB3	2.44	0.52
1:4:543:ASN:HD22	1:h:565:LEU:HD21	1.75	0.52
1:6:114:VAL:HG13	1:6:198:LEU:HD11	1.91	0.52
1:6:282:TRP:CE3	1:b:216:SER:HB3	2.44	0.52
1:d:308:THR:O	1:d:313:ARG:NH2	2.43	0.52
1:e:50:GLN:HG3	1:e:52:HIS:CE1	2.45	0.52
1:h:308:THR:O	1:h:313:ARG:NH2	2.43	0.52
1:j:308:THR:O	1:j:313:ARG:NH2	2.43	0.52
1:m:308:THR:O	1:m:313:ARG:NH2	2.43	0.52
1:n:278:LEU:O	1:n:580:ARG:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:219:ARG:HB3	1:s:350:ALA:O	2.08	0.52
1:v:543:ASN:HD22	1:x:565:LEU:HD21	1.75	0.52
1:w:278:LEU:O	1:w:580:ARG:HA	2.10	0.52
1:z:342:HIS:CE1	1:z:444:ASN:HD22	2.27	0.52
1:7:342:HIS:CE1	1:7:444:ASN:HD22	2.27	0.52
1:8:114:VAL:HG13	1:8:198:LEU:HD11	1.91	0.52
1:A:278:LEU:O	1:A:580:ARG:HA	2.10	0.52
1:B:109:THR:OG1	1:B:211:TYR:O	2.24	0.52
1:G:308:THR:O	1:G:313:ARG:NH2	2.43	0.52
1:H:278:LEU:O	1:H:580:ARG:HA	2.10	0.52
1:I:308:THR:O	1:I:313:ARG:NH2	2.43	0.52
1:M:50:GLN:HG3	1:M:52:HIS:CE1	2.44	0.52
1:O:50:GLN:HG3	1:O:52:HIS:CE1	2.45	0.52
1:Q:260:THR:HG21	1:S:173:THR:HG22	1.92	0.52
1:Q:278:LEU:O	1:Q:580:ARG:HA	2.10	0.52
1:Q:543:ASN:HD22	1:R:565:LEU:HD21	1.75	0.52
1:R:109:THR:OG1	1:R:211:TYR:O	2.24	0.52
1:S:206:THR:OG1	1:S:381:GLN:NE2	2.41	0.52
1:T:109:THR:OG1	1:T:211:TYR:O	2.24	0.52
1:W:50:GLN:HG3	1:W:52:HIS:CE1	2.45	0.52
1:X:173:THR:HG22	1:6:260:THR:HG21	1.92	0.52
1:1:278:LEU:O	1:1:580:ARG:HA	2.10	0.52
1:1:308:THR:O	1:1:313:ARG:NH2	2.43	0.52
1:4:342:HIS:CE1	1:4:444:ASN:HD22	2.27	0.52
1:6:184:ASN:ND2	1:6:491:ASN:OD1	2.40	0.52
1:6:219:ARG:HB3	1:6:350:ALA:O	2.09	0.52
1:b:50:GLN:HG3	1:b:52:HIS:CE1	2.44	0.52
1:d:50:GLN:HG3	1:d:52:HIS:CE1	2.45	0.52
1:d:278:LEU:O	1:d:580:ARG:HA	2.10	0.52
1:i:278:LEU:O	1:i:580:ARG:HA	2.10	0.52
1:i:282:TRP:CE3	1:j:216:SER:HB3	2.44	0.52
1:n:565:LEU:HD21	1:y:543:ASN:HD22	1.75	0.52
1:o:260:THR:HG21	1:v:173:THR:HG22	1.92	0.52
1:q:308:THR:O	1:q:313:ARG:NH2	2.43	0.52
1:q:342:HIS:CE1	1:q:444:ASN:HD22	2.27	0.52
1:r:50:GLN:HG3	1:r:52:HIS:CE1	2.45	0.52
1:u:342:HIS:CE1	1:u:444:ASN:HD22	2.27	0.52
1:x:50:GLN:HG3	1:x:52:HIS:CE1	2.45	0.52
1:z:114:VAL:HG13	1:z:198:LEU:HD11	1.91	0.52
1:8:50:GLN:HG3	1:8:52:HIS:CE1	2.45	0.52
1:A:433:ASN:OD1	1:A:438:THR:HA	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:114:VAL:HG13	1:D:198:LEU:HD11	1.91	0.52
1:D:543:ASN:HD22	1:M:565:LEU:HD21	1.74	0.52
1:E:308:THR:O	1:E:313:ARG:NH2	2.43	0.52
1:H:260:THR:HG21	1:I:173:THR:HG22	1.92	0.52
1:K:278:LEU:O	1:K:580:ARG:HA	2.10	0.52
1:N:543:ASN:HD22	1:O:565:LEU:HD21	1.75	0.52
1:R:308:THR:O	1:R:313:ARG:NH2	2.43	0.52
1:R:342:HIS:CE1	1:R:444:ASN:HD22	2.27	0.52
1:U:50:GLN:HG3	1:U:52:HIS:CE1	2.45	0.52
1:W:278:LEU:O	1:W:580:ARG:HA	2.10	0.52
1:W:565:LEU:HD21	1:X:543:ASN:HD22	1.74	0.52
1:X:216:SER:HB3	1:5:282:TRP:CE3	2.44	0.52
1:Z:278:LEU:O	1:Z:580:ARG:HA	2.10	0.52
1:1:384:GLN:O	1:1:573:THR:OG1	2.27	0.52
1:2:206:THR:OG1	1:2:381:GLN:NE2	2.42	0.52
1:2:308:THR:O	1:2:313:ARG:NH2	2.43	0.52
1:3:206:THR:OG1	1:3:381:GLN:NE2	2.41	0.52
1:3:308:THR:O	1:3:313:ARG:NH2	2.43	0.52
1:6:308:THR:O	1:6:313:ARG:NH2	2.43	0.52
1:c:278:LEU:O	1:c:580:ARG:HA	2.10	0.52
1:e:278:LEU:O	1:e:580:ARG:HA	2.10	0.52
1:h:278:LEU:O	1:h:580:ARG:HA	2.10	0.52
1:i:50:GLN:HG3	1:i:52:HIS:CE1	2.45	0.52
1:k:342:HIS:CE1	1:k:444:ASN:HD22	2.27	0.52
1:n:308:THR:O	1:n:313:ARG:NH2	2.43	0.52
1:o:278:LEU:O	1:o:580:ARG:HA	2.10	0.52
1:o:543:ASN:HD22	1:u:565:LEU:HD21	1.75	0.52
1:r:308:THR:O	1:r:313:ARG:NH2	2.43	0.52
1:s:109:THR:OG1	1:s:211:TYR:O	2.24	0.52
1:s:278:LEU:O	1:s:580:ARG:HA	2.10	0.52
1:u:50:GLN:HG3	1:u:52:HIS:CE1	2.45	0.52
1:u:308:THR:O	1:u:313:ARG:NH2	2.43	0.52
1:v:206:THR:OG1	1:v:381:GLN:NE2	2.41	0.52
1:w:219:ARG:HB3	1:w:350:ALA:O	2.09	0.52
1:w:347:THR:HG21	1:x:410:ASN:HB2	1.91	0.52
1:x:109:THR:OG1	1:x:211:TYR:O	2.24	0.52
1:x:219:ARG:NH2	1:x:234:ASP:OD1	2.34	0.52
1:y:327:GLU:OE2	1:z:214:TYR:OH	2.22	0.52
1:7:219:ARG:HB3	1:7:350:ALA:O	2.09	0.52
1:7:233:THR:HG23	1:7:234:ASP:H	1.73	0.52
1:A:219:ARG:HB3	1:A:350:ALA:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:278:LEU:O	1:D:580:ARG:HA	2.10	0.52
1:D:342:HIS:CE1	1:D:444:ASN:HD22	2.27	0.52
1:E:565:LEU:HD21	1:P:543:ASN:HD22	1.75	0.52
1:G:282:TRP:CE3	1:I:216:SER:HB3	2.44	0.52
1:H:50:GLN:HG3	1:H:52:HIS:CE1	2.45	0.52
1:M:308:THR:O	1:M:313:ARG:NH2	2.43	0.52
1:O:278:LEU:O	1:O:580:ARG:HA	2.10	0.52
1:P:50:GLN:HG3	1:P:52:HIS:CE1	2.45	0.52
1:U:565:LEU:HD21	1:V:543:ASN:HD22	1.75	0.52
1:X:278:LEU:O	1:X:580:ARG:HA	2.10	0.52
1:Y:278:LEU:O	1:Y:580:ARG:HA	2.10	0.52
1:2:114:VAL:HG13	1:2:198:LEU:HD11	1.91	0.52
1:2:278:LEU:O	1:2:580:ARG:HA	2.10	0.52
1:3:278:LEU:O	1:3:580:ARG:HA	2.10	0.52
1:5:260:THR:HG21	1:b:173:THR:HG22	1.92	0.52
1:5:308:THR:O	1:5:313:ARG:NH2	2.43	0.52
1:a:565:LEU:HD21	1:t:543:ASN:HD22	1.75	0.52
1:b:278:LEU:O	1:b:580:ARG:HA	2.10	0.52
1:d:565:LEU:HD21	1:q:543:ASN:HD22	1.75	0.52
1:f:173:THR:HG22	1:h:260:THR:HG21	1.92	0.52
1:f:278:LEU:O	1:f:580:ARG:HA	2.10	0.52
1:g:278:LEU:O	1:g:580:ARG:HA	2.10	0.52
1:s:197:THR:O	1:s:382:HIS:NE2	2.40	0.52
1:s:433:ASN:OD1	1:s:438:THR:HA	2.08	0.52
1:t:50:GLN:HG3	1:t:52:HIS:CE1	2.45	0.52
1:u:410:ASN:HB2	1:v:347:THR:HG21	1.91	0.52
1:v:278:LEU:O	1:v:580:ARG:HA	2.10	0.52
1:x:197:THR:O	1:x:382:HIS:NE2	2.40	0.52
1:z:278:LEU:O	1:z:580:ARG:HA	2.10	0.52
1:8:278:LEU:O	1:8:580:ARG:HA	2.10	0.52
1:A:109:THR:OG1	1:A:211:TYR:O	2.24	0.52
1:A:543:ASN:HD22	1:F:565:LEU:HD21	1.75	0.52
1:C:50:GLN:HG3	1:C:52:HIS:CE1	2.44	0.52
1:M:216:SER:HB3	1:2:282:TRP:CE3	2.44	0.52
1:Q:114:VAL:HG13	1:Q:198:LEU:HD11	1.91	0.52
1:Q:219:ARG:HB3	1:Q:350:ALA:O	2.09	0.52
1:R:50:GLN:HG3	1:R:52:HIS:CE1	2.45	0.52
1:R:410:ASN:HB2	1:S:347:THR:HG21	1.91	0.52
1:S:278:LEU:O	1:S:580:ARG:HA	2.10	0.52
1:S:308:THR:O	1:S:313:ARG:NH2	2.43	0.52
1:Y:308:THR:O	1:Y:313:ARG:NH2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:173:THR:HG22	1:1:260:THR:HG21	1.92	0.52
1:5:184:ASN:ND2	1:5:491:ASN:OD1	2.40	0.52
1:6:50:GLN:HG3	1:6:52:HIS:CE1	2.44	0.52
1:6:410:ASN:HB2	1:b:347:THR:HG21	1.90	0.52
1:c:308:THR:O	1:c:313:ARG:NH2	2.43	0.52
1:d:114:VAL:HG13	1:d:198:LEU:HD11	1.91	0.52
1:g:260:THR:HG21	1:m:173:THR:HG22	1.92	0.52
1:h:384:GLN:O	1:h:573:THR:OG1	2.27	0.52
1:i:308:THR:O	1:i:313:ARG:NH2	2.43	0.52
1:i:565:LEU:HD21	1:z:543:ASN:HD22	1.74	0.52
1:j:565:LEU:HD21	1:m:543:ASN:HD22	1.75	0.52
1:l:173:THR:HG22	1:r:260:THR:HG21	1.92	0.52
1:q:278:LEU:O	1:q:580:ARG:HA	2.10	0.52
1:s:342:HIS:CE1	1:s:444:ASN:HD22	2.27	0.52
1:t:197:THR:O	1:t:382:HIS:NE2	2.40	0.52
1:v:308:THR:O	1:v:313:ARG:NH2	2.43	0.52
1:v:558:TYR:OH	1:v:576:PRO:O	2.20	0.52
1:y:197:THR:O	1:y:382:HIS:NE2	2.40	0.52
1:7:543:ASN:HD22	1:8:565:LEU:HD21	1.75	0.52
1:B:410:ASN:HB2	1:J:347:THR:HG21	1.91	0.52
1:B:543:ASN:HD22	1:I:565:LEU:HD21	1.74	0.52
1:C:197:THR:O	1:C:382:HIS:NE2	2.40	0.52
1:G:278:LEU:O	1:G:580:ARG:HA	2.10	0.52
1:H:114:VAL:HG13	1:H:198:LEU:HD11	1.91	0.52
1:O:123:PHE:O	1:O:462:TYR:OH	2.16	0.52
1:O:308:THR:O	1:O:313:ARG:NH2	2.43	0.52
1:P:252:THR:HG22	1:P:253:GLN:HG3	1.92	0.52
1:S:317:THR:HG21	1:S:322[B]:ARG:HH21	1.74	0.52
1:S:410:ASN:HB2	1:U:347:THR:HG21	1.91	0.52
1:T:197:THR:O	1:T:382:HIS:NE2	2.40	0.52
1:U:197:THR:O	1:U:382:HIS:NE2	2.40	0.52
1:U:308:THR:O	1:U:313:ARG:NH2	2.43	0.52
1:U:543:ASN:HD22	1:V:565:LEU:HD21	1.75	0.52
1:V:278:LEU:O	1:V:580:ARG:HA	2.10	0.52
1:X:114:VAL:HG13	1:X:198:LEU:HD11	1.91	0.52
1:X:347:THR:HG21	1:5:410:ASN:HB2	1.90	0.52
1:1:543:ASN:HD22	1:w:565:LEU:HD21	1.75	0.52
1:2:543:ASN:HD22	1:3:565:LEU:HD21	1.75	0.52
1:2:565:LEU:HD21	1:3:543:ASN:HD22	1.75	0.52
1:3:282:TRP:CE3	1:i:216:SER:HB3	2.44	0.52
1:5:543:ASN:HD22	1:6:565:LEU:HD21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:565:LEU:HD21	1:6:543:ASN:HD22	1.75	0.52
1:6:252:THR:HG22	1:6:253:GLN:HG3	1.92	0.52
1:a:347:THR:HG21	1:b:410:ASN:HB2	1.91	0.52
1:b:184:ASN:ND2	1:b:491:ASN:OD1	2.40	0.52
1:g:565:LEU:HD21	1:l:543:ASN:HD22	1.75	0.52
1:k:410:ASN:HB2	1:l:347:THR:HG21	1.91	0.52
1:n:233:THR:HG23	1:n:234:ASP:H	1.73	0.52
1:o:219:ARG:HB3	1:o:350:ALA:O	2.09	0.52
1:o:565:LEU:HD21	1:u:543:ASN:HD22	1.75	0.52
1:p:114:VAL:HG13	1:p:198:LEU:HD11	1.91	0.52
1:q:216:SER:HB3	1:s:282:TRP:CE3	2.44	0.52
1:t:308:THR:O	1:t:313:ARG:NH2	2.43	0.52
1:t:347:THR:HG21	1:v:410:ASN:HB2	1.91	0.52
1:y:50:GLN:HG3	1:y:52:HIS:CE1	2.45	0.52
1:y:252:THR:HG22	1:y:253:GLN:HG3	1.92	0.52
1:8:252:THR:HG22	1:8:253:GLN:HG3	1.92	0.52
1:8:342:HIS:CE1	1:8:444:ASN:HD22	2.27	0.52
1:A:260:THR:HG21	1:E:173:THR:HG22	1.92	0.51
1:A:282:TRP:CE3	1:G:216:SER:HB3	2.44	0.51
1:A:342:HIS:CE1	1:A:444:ASN:HD22	2.27	0.51
1:E:50:GLN:HG3	1:E:52:HIS:CE1	2.44	0.51
1:E:233:THR:HG23	1:E:234:ASP:H	1.73	0.51
1:E:543:ASN:HD22	1:P:565:LEU:HD21	1.74	0.51
1:G:410:ASN:HB2	1:I:347:THR:HG21	1.91	0.51
1:H:326:THR:HG21	1:W:100:MET:HA	1.93	0.51
1:I:260:THR:HG21	1:J:173:THR:HG22	1.92	0.51
1:I:278:LEU:O	1:I:580:ARG:HA	2.10	0.51
1:J:233:THR:HG23	1:J:234:ASP:H	1.73	0.51
1:K:558:TYR:OH	1:K:576:PRO:O	2.20	0.51
1:M:347:THR:HG21	1:2:410:ASN:HB2	1.90	0.51
1:S:565:LEU:HD21	1:T:543:ASN:HD22	1.75	0.51
1:V:347:THR:HG21	1:X:410:ASN:HB2	1.91	0.51
1:X:184:ASN:ND2	1:X:491:ASN:OD1	2.40	0.51
1:X:252:THR:HG22	1:X:253:GLN:HG3	1.92	0.51
1:Z:410:ASN:HB2	1:x:347:THR:HG21	1.90	0.51
1:2:364:GLN:HB2	1:2:407:TRP:CZ3	2.39	0.51
1:3:114:VAL:HG13	1:3:198:LEU:HD11	1.91	0.51
1:4:197:THR:O	1:4:382:HIS:NE2	2.40	0.51
1:5:252:THR:HG22	1:5:253:GLN:HG3	1.93	0.51
1:b:114:VAL:HG13	1:b:198:LEU:HD11	1.91	0.51
1:d:252:THR:HG22	1:d:253:GLN:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:543:ASN:HD22	1:q:565:LEU:HD21	1.75	0.51
1:j:197:THR:O	1:j:382:HIS:NE2	2.40	0.51
1:m:278:LEU:O	1:m:580:ARG:HA	2.10	0.51
1:o:114:VAL:HG13	1:o:198:LEU:HD11	1.91	0.51
1:v:565:LEU:HD21	1:x:543:ASN:HD22	1.75	0.51
1:y:308:THR:O	1:y:313:ARG:NH2	2.43	0.51
1:7:184:ASN:ND2	1:7:491:ASN:OD1	2.40	0.51
1:7:219:ARG:NH2	1:7:234:ASP:OD1	2.34	0.51
1:7:284:THR:HG22	1:7:285:ASN:H	1.76	0.51
1:8:308:THR:O	1:8:313:ARG:NH2	2.43	0.51
1:H:109:THR:OG1	1:H:211:TYR:O	2.24	0.51
1:H:252:THR:HG22	1:H:253:GLN:HG3	1.92	0.51
1:K:308:THR:O	1:K:313:ARG:NH2	2.43	0.51
1:L:278:LEU:O	1:L:580:ARG:HA	2.10	0.51
1:N:252:THR:HG22	1:N:253:GLN:HG3	1.92	0.51
1:N:284:THR:HG22	1:N:285:ASN:H	1.76	0.51
1:O:252:THR:HG22	1:O:253:GLN:HG3	1.92	0.51
1:O:342:HIS:CE1	1:O:444:ASN:HD22	2.27	0.51
1:P:197:THR:O	1:P:382:HIS:NE2	2.40	0.51
1:P:308:THR:O	1:P:313:ARG:NH2	2.43	0.51
1:S:252:THR:HG22	1:S:253:GLN:HG3	1.92	0.51
1:T:219:ARG:NH2	1:T:234:ASP:OD1	2.34	0.51
1:T:284:THR:HG22	1:T:285:ASN:H	1.76	0.51
1:W:308:THR:O	1:W:313:ARG:NH2	2.43	0.51
1:1:233:THR:HG23	1:1:234:ASP:H	1.73	0.51
1:3:410:ASN:HB2	1:i:347:THR:HG21	1.90	0.51
1:4:219:ARG:NH2	1:4:234:ASP:OD1	2.34	0.51
1:5:50:GLN:HG3	1:5:52:HIS:CE1	2.45	0.51
1:a:173:THR:HG22	1:e:260:THR:HG21	1.93	0.51
1:a:278:LEU:O	1:a:580:ARG:HA	2.10	0.51
1:a:543:ASN:HD22	1:t:565:LEU:HD21	1.75	0.51
1:g:308:THR:O	1:g:313:ARG:NH2	2.43	0.51
1:i:260:THR:HG21	1:7:173:THR:HG22	1.92	0.51
1:j:50:GLN:HG3	1:j:52:HIS:CE1	2.45	0.51
1:n:173:THR:HG22	1:s:260:THR:HG21	1.93	0.51
1:r:278:LEU:O	1:r:580:ARG:HA	2.10	0.51
1:v:260:THR:HG21	1:w:173:THR:HG22	1.92	0.51
1:x:284:THR:HG22	1:x:285:ASN:H	1.76	0.51
1:7:252:THR:HG22	1:7:253:GLN:HG3	1.92	0.51
1:C:278:LEU:O	1:C:580:ARG:HA	2.10	0.51
1:F:114:VAL:HG13	1:F:198:LEU:HD11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:252:THR:HG22	1:F:253:GLN:HG3	1.92	0.51
1:J:284:THR:HG22	1:J:285:ASN:H	1.76	0.51
1:K:410:ASN:HB2	1:1:347:THR:HG21	1.92	0.51
1:Q:50:GLN:HG3	1:Q:52:HIS:CE1	2.45	0.51
1:Q:565:LEU:HD21	1:R:543:ASN:HD22	1.75	0.51
1:T:252:THR:HG22	1:T:253:GLN:HG3	1.92	0.51
1:T:278:LEU:O	1:T:580:ARG:HA	2.10	0.51
1:4:565:LEU:HD21	1:h:543:ASN:HD22	1.75	0.51
1:b:252:THR:HG22	1:b:253:GLN:HG3	1.93	0.51
1:c:219:ARG:NH2	1:c:234:ASP:OD1	2.34	0.51
1:e:308:THR:O	1:e:313:ARG:NH2	2.43	0.51
1:h:233:THR:HG23	1:h:234:ASP:H	1.73	0.51
1:l:284:THR:HG22	1:l:285:ASN:H	1.76	0.51
1:n:50:GLN:HG3	1:n:52:HIS:CE1	2.45	0.51
1:n:252:THR:HG22	1:n:253:GLN:HG3	1.92	0.51
1:o:50:GLN:HG3	1:o:52:HIS:CE1	2.45	0.51
1:v:252:THR:HG22	1:v:253:GLN:HG3	1.92	0.51
1:x:308:THR:O	1:x:313:ARG:NH2	2.43	0.51
1:z:308:THR:O	1:z:313:ARG:NH2	2.43	0.51
1:A:173:THR:HG22	1:B:260:THR:HG21	1.92	0.51
1:D:308:THR:O	1:D:313:ARG:NH2	2.43	0.51
1:E:252:THR:HG22	1:E:253:GLN:HG3	1.92	0.51
1:G:284:THR:HG22	1:G:285:ASN:H	1.76	0.51
1:G:384:GLN:O	1:G:573:THR:OG1	2.27	0.51
1:M:260:THR:HG21	1:N:173:THR:HG22	1.92	0.51
1:O:184:ASN:ND2	1:O:491:ASN:OD1	2.40	0.51
1:R:252:THR:HG22	1:R:253:GLN:HG3	1.92	0.51
1:V:173:THR:HG22	1:W:260:THR:HG21	1.93	0.51
1:Y:114:VAL:HG13	1:Y:198:LEU:HD11	1.91	0.51
1:c:114:VAL:HG13	1:c:198:LEU:HD11	1.91	0.51
1:e:252:THR:HG22	1:e:253:GLN:HG3	1.92	0.51
1:k:260:THR:HG21	1:s:173:THR:HG22	1.92	0.51
1:l:233:THR:HG23	1:l:234:ASP:H	1.73	0.51
1:n:543:ASN:HD22	1:y:565:LEU:HD21	1.75	0.51
1:p:252:THR:HG22	1:p:253:GLN:HG3	1.92	0.51
1:q:114:VAL:HG13	1:q:198:LEU:HD11	1.91	0.51
1:q:284:THR:HG22	1:q:285:ASN:H	1.76	0.51
1:s:558:TYR:OH	1:s:576:PRO:O	2.20	0.51
1:t:173:THR:HG22	1:x:260:THR:HG21	1.92	0.51
1:w:197:THR:O	1:w:382:HIS:NE2	2.40	0.51
1:x:278:LEU:O	1:x:580:ARG:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:410:ASN:HB2	1:7:347:THR:HG21	1.91	0.51
1:B:278:LEU:O	1:B:580:ARG:HA	2.10	0.51
1:G:114:VAL:HG13	1:G:198:LEU:HD11	1.91	0.51
1:G:260:THR:HG21	1:W:173:THR:HG22	1.91	0.51
1:I:284:THR:HG22	1:I:285:ASN:H	1.76	0.51
1:N:184:ASN:ND2	1:N:491:ASN:OD1	2.40	0.51
1:N:219:ARG:NH2	1:N:234:ASP:OD1	2.34	0.51
1:P:278:LEU:O	1:P:580:ARG:HA	2.10	0.51
1:S:197:THR:O	1:S:382:HIS:NE2	2.40	0.51
1:S:260:THR:HG21	1:4:173:THR:HG22	1.93	0.51
1:T:260:THR:HG21	1:U:173:THR:HG22	1.92	0.51
1:T:308:THR:O	1:T:313:ARG:NH2	2.43	0.51
1:U:114:VAL:HG13	1:U:198:LEU:HD11	1.91	0.51
1:V:114:VAL:HG13	1:V:198:LEU:HD11	1.91	0.51
1:1:114:VAL:HG13	1:1:198:LEU:HD11	1.91	0.51
1:3:364:GLN:HB2	1:3:407:TRP:CZ3	2.39	0.51
1:a:114:VAL:HG13	1:a:198:LEU:HD11	1.91	0.51
1:b:317:THR:HG21	1:b:322[B]:ARG:HH21	1.75	0.51
1:c:565:LEU:HD21	1:f:543:ASN:HD22	1.75	0.51
1:h:114:VAL:HG13	1:h:198:LEU:HD11	1.91	0.51
1:h:184:ASN:ND2	1:h:491:ASN:OD1	2.40	0.51
1:h:284:THR:HG22	1:h:285:ASN:H	1.76	0.51
1:j:543:ASN:HD22	1:m:565:LEU:HD21	1.75	0.51
1:k:278:LEU:O	1:k:580:ARG:HA	2.10	0.51
1:k:565:LEU:HD21	1:r:543:ASN:HD22	1.75	0.51
1:n:410:ASN:HB2	1:o:347:THR:HG21	1.91	0.51
1:p:565:LEU:HD21	1:s:543:ASN:HD22	1.75	0.51
1:q:252:THR:HG22	1:q:253:GLN:HG3	1.92	0.51
1:q:384:GLN:O	1:q:573:THR:OG1	2.27	0.51
1:r:284:THR:HG22	1:r:285:ASN:H	1.76	0.51
1:t:114:VAL:HG13	1:t:198:LEU:HD11	1.91	0.51
1:u:252:THR:HG22	1:u:253:GLN:HG3	1.92	0.51
1:w:219:ARG:NH2	1:w:234:ASP:OD1	2.34	0.51
1:x:252:THR:HG22	1:x:253:GLN:HG3	1.92	0.51
1:z:341:PRO:HA	1:z:444:ASN:O	2.11	0.51
1:8:123:PHE:O	1:8:462:TYR:OH	2.16	0.51
1:C:543:ASN:HD22	1:L:565:LEU:HD21	1.75	0.51
1:D:565:LEU:HD21	1:M:543:ASN:HD22	1.76	0.51
1:E:410:ASN:HB2	1:Q:347:THR:HG21	1.91	0.51
1:G:252:THR:HG22	1:G:253:GLN:HG3	1.92	0.51
1:J:278:LEU:O	1:J:580:ARG:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:308:THR:O	1:J:313:ARG:NH2	2.43	0.51
1:J:543:ASN:HD22	1:K:565:LEU:HD21	1.75	0.51
1:J:565:LEU:HD21	1:K:543:ASN:HD22	1.75	0.51
1:L:197:THR:O	1:L:382:HIS:NE2	2.40	0.51
1:N:260:THR:HG21	1:g:173:THR:HG22	1.93	0.51
1:O:341:PRO:HA	1:O:444:ASN:O	2.11	0.51
1:S:327:GLU:OE2	1:U:214:TYR:OH	2.22	0.51
1:T:347:THR:HG21	1:f:410:ASN:HB2	1.91	0.51
1:W:252:THR:HG22	1:W:253:GLN:HG3	1.92	0.51
1:1:184:ASN:ND2	1:1:491:ASN:OD1	2.40	0.51
1:2:260:THR:HG21	1:i:173:THR:HG22	1.92	0.51
1:6:341:PRO:HA	1:6:444:ASN:O	2.11	0.51
1:j:278:LEU:O	1:j:580:ARG:HA	2.10	0.51
1:k:284:THR:HG22	1:k:285:ASN:H	1.76	0.51
1:m:114:VAL:HG13	1:m:198:LEU:HD11	1.91	0.51
1:m:197:THR:O	1:m:382:HIS:NE2	2.40	0.51
1:n:317:THR:HG21	1:n:322[B]:ARG:HH21	1.76	0.51
1:u:284:THR:HG22	1:u:285:ASN:H	1.76	0.51
1:v:341:PRO:HA	1:v:444:ASN:O	2.11	0.51
1:y:278:LEU:O	1:y:580:ARG:HA	2.10	0.51
1:8:109:THR:OG1	1:8:211:TYR:O	2.24	0.51
1:8:184:ASN:ND2	1:8:491:ASN:OD1	2.40	0.51
1:8:341:PRO:HA	1:8:444:ASN:O	2.11	0.51
1:A:341:PRO:HA	1:A:444:ASN:O	2.11	0.51
1:D:341:PRO:HA	1:D:444:ASN:O	2.11	0.51
1:D:410:ASN:HB2	1:N:347:THR:HG21	1.92	0.51
1:F:278:LEU:O	1:F:580:ARG:HA	2.10	0.51
1:J:184:ASN:ND2	1:J:491:ASN:OD1	2.40	0.51
1:J:341:PRO:HA	1:J:444:ASN:O	2.11	0.51
1:L:114:VAL:HG13	1:L:198:LEU:HD11	1.91	0.51
1:M:173:THR:HG22	1:3:260:THR:HG21	1.92	0.51
1:O:173:THR:HG22	1:4:260:THR:HG21	1.92	0.51
1:O:260:THR:HG21	1:P:173:THR:HG22	1.92	0.51
1:P:284:THR:HG22	1:P:285:ASN:H	1.76	0.51
1:T:173:THR:HG22	1:c:260:THR:HG21	1.93	0.51
1:Z:284:THR:HG22	1:Z:285:ASN:H	1.76	0.51
1:1:50:GLN:HG3	1:1:52:HIS:CE1	2.45	0.51
1:1:284:THR:HG22	1:1:285:ASN:H	1.76	0.51
1:2:252:THR:HG22	1:2:253:GLN:HG3	1.92	0.51
1:2:341:PRO:HA	1:2:444:ASN:O	2.11	0.51
1:3:252:THR:HG22	1:3:253:GLN:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:308:THR:O	1:4:313:ARG:NH2	2.43	0.51
1:5:197:THR:O	1:5:382:HIS:NE2	2.40	0.51
1:5:341:PRO:HA	1:5:444:ASN:O	2.11	0.51
1:6:197:THR:O	1:6:382:HIS:NE2	2.40	0.51
1:i:543:ASN:HD22	1:z:565:LEU:HD21	1.76	0.51
1:l:184:ASN:ND2	1:l:491:ASN:OD1	2.40	0.51
1:l:278:LEU:O	1:l:580:ARG:HA	2.10	0.51
1:o:308:THR:O	1:o:313:ARG:NH2	2.43	0.51
1:w:308:THR:O	1:w:313:ARG:NH2	2.43	0.51
1:y:114:VAL:HG13	1:y:198:LEU:HD11	1.91	0.51
1:B:284:THR:HG22	1:B:285:ASN:H	1.76	0.51
1:I:341:PRO:HA	1:I:444:ASN:O	2.11	0.51
1:J:197:THR:O	1:J:382:HIS:NE2	2.40	0.51
1:P:114:VAL:HG13	1:P:198:LEU:HD11	1.91	0.51
1:Q:308:THR:O	1:Q:313:ARG:NH2	2.43	0.51
1:Q:341:PRO:HA	1:Q:444:ASN:O	2.11	0.51
1:R:173:THR:HG22	1:V:260:THR:HG21	1.92	0.51
1:R:284:THR:HG22	1:R:285:ASN:H	1.76	0.51
1:S:341:PRO:HA	1:S:444:ASN:O	2.11	0.51
1:V:384:GLN:O	1:V:573:THR:OG1	2.27	0.51
1:Y:219:ARG:NH2	1:Y:234:ASP:OD1	2.34	0.51
1:3:341:PRO:HA	1:3:444:ASN:O	2.11	0.51
1:h:50:GLN:HG3	1:h:52:HIS:CE1	2.45	0.51
1:l:308:THR:O	1:l:313:ARG:NH2	2.43	0.51
1:o:341:PRO:HA	1:o:444:ASN:O	2.11	0.51
1:p:260:THR:HG21	1:q:173:THR:HG22	1.92	0.51
1:p:278:LEU:O	1:p:580:ARG:HA	2.10	0.51
1:s:341:PRO:HA	1:s:444:ASN:O	2.11	0.51
1:v:197:THR:O	1:v:382:HIS:NE2	2.40	0.51
1:w:260:THR:HG21	1:8:173:THR:HG22	1.92	0.51
1:y:173:THR:HG22	1:8:260:THR:HG21	1.92	0.51
1:C:252:THR:HG22	1:C:253:GLN:HG3	1.92	0.51
1:D:284:THR:HG22	1:D:285:ASN:H	1.76	0.51
1:F:260:THR:HG21	1:G:173:THR:HG22	1.93	0.51
1:N:50:GLN:HG3	1:N:52:HIS:CE1	2.44	0.51
1:O:109:THR:OG1	1:O:211:TYR:O	2.24	0.51
1:U:278:LEU:O	1:U:580:ARG:HA	2.10	0.51
1:a:384:GLN:O	1:a:573:THR:OG1	2.27	0.51
1:d:341:PRO:HA	1:d:444:ASN:O	2.11	0.51
1:f:284:THR:HG22	1:f:285:ASN:H	1.75	0.51
1:i:109:THR:OG1	1:i:211:TYR:O	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:252:THR:HG22	1:j:253:GLN:HG3	1.92	0.51
1:k:543:ASN:HD22	1:r:565:LEU:HD21	1.75	0.51
1:l:341:PRO:HA	1:l:444:ASN:O	2.11	0.51
1:l:410:ASN:HB2	1:m:347:THR:HG21	1.91	0.51
1:o:327:GLU:OE2	1:p:214:TYR:OH	2.22	0.51
1:q:341:PRO:HA	1:q:444:ASN:O	2.11	0.51
1:q:410:ASN:HB2	1:r:347:THR:HG21	1.91	0.51
1:r:341:PRO:HA	1:r:444:ASN:O	2.11	0.51
1:t:214:TYR:OH	1:v:327:GLU:OE2	2.22	0.51
1:y:284:THR:HG22	1:y:285:ASN:H	1.76	0.51
1:7:50:GLN:HG3	1:7:52:HIS:CE1	2.44	0.51
1:A:252:THR:HG22	1:A:253:GLN:HG3	1.92	0.51
1:B:565:LEU:HD21	1:I:543:ASN:HD22	1.75	0.51
1:C:173:THR:HG22	1:D:260:THR:HG21	1.93	0.51
1:D:197:THR:O	1:D:382:HIS:NE2	2.40	0.51
1:H:341:PRO:HA	1:H:444:ASN:O	2.11	0.51
1:H:368:HIS:CD2	1:Y:320:GLN:HG2	2.46	0.51
1:I:252:THR:HG22	1:I:253:GLN:HG3	1.92	0.51
1:J:410:ASN:HB2	1:L:347:THR:HG21	1.91	0.51
1:M:109:THR:OG1	1:M:211:TYR:O	2.24	0.51
1:N:278:LEU:O	1:N:580:ARG:HA	2.10	0.51
1:X:284:THR:HG22	1:X:285:ASN:H	1.76	0.51
1:4:252:THR:HG22	1:4:253:GLN:HG3	1.92	0.51
1:b:284:THR:HG22	1:b:285:ASN:H	1.76	0.51
1:c:197:THR:O	1:c:382:HIS:NE2	2.40	0.51
1:h:252:THR:HG22	1:h:253:GLN:HG3	1.92	0.51
1:i:197:THR:O	1:i:382:HIS:NE2	2.40	0.51
1:j:109:THR:OG1	1:j:211:TYR:O	2.24	0.51
1:o:184:ASN:ND2	1:o:491:ASN:OD1	2.40	0.51
1:r:252:THR:HG22	1:r:253:GLN:HG3	1.92	0.51
1:r:364:GLN:HB2	1:r:407:TRP:CZ3	2.39	0.51
1:s:252:THR:HG22	1:s:253:GLN:HG3	1.92	0.51
1:w:252:THR:HG22	1:w:253:GLN:HG3	1.92	0.51
1:y:317:THR:HG21	1:y:322[B]:ARG:HH21	1.76	0.51
1:7:375:ARG:HH11	1:7:396:THR:HG1	1.55	0.51
1:8:284:THR:HG22	1:8:285:ASN:H	1.76	0.51
1:G:341:PRO:HA	1:G:444:ASN:O	2.11	0.50
1:I:109:THR:OG1	1:I:211:TYR:O	2.24	0.50
1:L:284:THR:HG22	1:L:285:ASN:H	1.76	0.50
1:M:317:THR:HG21	1:M:322[B]:ARG:HH21	1.76	0.50
1:M:341:PRO:HA	1:M:444:ASN:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:284:THR:HG22	1:O:285:ASN:H	1.76	0.50
1:Q:252:THR:HG22	1:Q:253:GLN:HG3	1.92	0.50
1:Q:284:THR:HG22	1:Q:285:ASN:H	1.76	0.50
1:R:278:LEU:O	1:R:580:ARG:HA	2.10	0.50
1:Y:341:PRO:HA	1:Y:444:ASN:O	2.11	0.50
1:1:197:THR:O	1:1:382:HIS:NE2	2.40	0.50
1:1:252:THR:HG22	1:1:253:GLN:HG3	1.93	0.50
1:3:184:ASN:ND2	1:3:491:ASN:OD1	2.40	0.50
1:4:341:PRO:HA	1:4:444:ASN:O	2.11	0.50
1:5:278:LEU:O	1:5:580:ARG:HA	2.10	0.50
1:5:284:THR:HG22	1:5:285:ASN:H	1.76	0.50
1:5:317:THR:HG21	1:5:322[B]:ARG:HH21	1.76	0.50
1:a:260:THR:HG21	1:u:173:THR:HG22	1.92	0.50
1:a:317:THR:HG21	1:a:322[B]:ARG:HH21	1.76	0.50
1:b:260:THR:HG21	1:c:173:THR:HG22	1.92	0.50
1:d:260:THR:HG21	1:r:173:THR:HG22	1.93	0.50
1:g:543:ASN:HD22	1:l:565:LEU:HD21	1.75	0.50
1:h:197:THR:O	1:h:382:HIS:NE2	2.40	0.50
1:j:173:THR:HG22	1:z:260:THR:HG21	1.93	0.50
1:l:197:THR:O	1:l:382:HIS:NE2	2.40	0.50
1:o:252:THR:HG22	1:o:253:GLN:HG3	1.92	0.50
1:o:284:THR:HG22	1:o:285:ASN:H	1.76	0.50
1:r:109:THR:OG1	1:r:211:TYR:O	2.24	0.50
1:t:278:LEU:O	1:t:580:ARG:HA	2.10	0.50
1:x:341:PRO:HA	1:x:444:ASN:O	2.11	0.50
1:y:341:PRO:HA	1:y:444:ASN:O	2.11	0.50
1:z:284:THR:HG22	1:z:285:ASN:H	1.76	0.50
1:7:278:LEU:O	1:7:580:ARG:HA	2.10	0.50
1:E:197:THR:O	1:E:382:HIS:NE2	2.40	0.50
1:I:364:GLN:HB2	1:I:407:TRP:CZ3	2.39	0.50
1:P:364:GLN:HB2	1:P:407:TRP:CZ3	2.39	0.50
1:Y:197:THR:O	1:Y:382:HIS:NE2	2.40	0.50
1:Y:260:THR:HG21	1:x:173:THR:HG22	1.93	0.50
1:6:284:THR:HG22	1:6:285:ASN:H	1.76	0.50
1:c:341:PRO:HA	1:c:444:ASN:O	2.11	0.50
1:g:252:THR:HG22	1:g:253:GLN:HG3	1.92	0.50
1:i:341:PRO:HA	1:i:444:ASN:O	2.11	0.50
1:j:284:THR:HG22	1:j:285:ASN:H	1.76	0.50
1:m:284:THR:HG22	1:m:285:ASN:H	1.76	0.50
1:p:184:ASN:ND2	1:p:491:ASN:OD1	2.40	0.50
1:u:278:LEU:O	1:u:580:ARG:HA	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:197:THR:O	1:z:382:HIS:NE2	2.40	0.50
1:z:252:THR:HG22	1:z:253:GLN:HG3	1.92	0.50
1:7:384:GLN:O	1:7:573:THR:OG1	2.27	0.50
1:J:260:THR:HG21	1:1:173:THR:HG22	1.92	0.50
1:K:184:ASN:ND2	1:K:491:ASN:OD1	2.40	0.50
1:M:197:THR:O	1:M:382:HIS:NE2	2.40	0.50
1:P:341:PRO:HA	1:P:444:ASN:O	2.11	0.50
1:T:341:PRO:HA	1:T:444:ASN:O	2.11	0.50
1:6:278:LEU:O	1:6:580:ARG:HA	2.10	0.50
1:g:184:ASN:ND2	1:g:491:ASN:OD1	2.40	0.50
1:h:173:THR:HG22	1:l:260:THR:HG21	1.93	0.50
1:h:558:TYR:OH	1:h:576:PRO:O	2.20	0.50
1:n:341:PRO:HA	1:n:444:ASN:O	2.11	0.50
1:t:284:THR:HG22	1:t:285:ASN:H	1.76	0.50
1:w:341:PRO:HA	1:w:444:ASN:O	2.11	0.50
1:y:364:GLN:HB2	1:y:407:TRP:CZ3	2.39	0.50
1:C:109:THR:OG1	1:C:211:TYR:O	2.24	0.50
1:C:284:THR:HG22	1:C:285:ASN:H	1.76	0.50
1:D:252:THR:HG22	1:D:253:GLN:HG3	1.92	0.50
1:E:314:SER:HB2	1:Q:392:LYS:HZ2	1.76	0.50
1:K:252:THR:HG22	1:K:253:GLN:HG3	1.93	0.50
1:Q:184:ASN:ND2	1:Q:491:ASN:OD1	2.40	0.50
1:R:341:PRO:HA	1:R:444:ASN:O	2.11	0.50
1:U:284:THR:HG22	1:U:285:ASN:H	1.76	0.50
1:V:284:THR:HG22	1:V:285:ASN:H	1.76	0.50
1:W:284:THR:HG22	1:W:285:ASN:H	1.76	0.50
1:W:341:PRO:HA	1:W:444:ASN:O	2.11	0.50
1:X:341:PRO:HA	1:X:444:ASN:O	2.11	0.50
1:2:184:ASN:ND2	1:2:491:ASN:OD1	2.40	0.50
1:c:317:THR:HG21	1:c:322[B]:ARG:HH21	1.76	0.50
1:e:317:THR:HG21	1:e:322[B]:ARG:HH21	1.76	0.50
1:e:341:PRO:HA	1:e:444:ASN:O	2.11	0.50
1:m:317:THR:HG21	1:m:322[B]:ARG:HH21	1.75	0.50
1:q:317:THR:HG21	1:q:322[B]:ARG:HH21	1.76	0.50
1:r:184:ASN:ND2	1:r:491:ASN:OD1	2.40	0.50
1:t:252:THR:HG22	1:t:253:GLN:HG3	1.92	0.50
1:8:558:TYR:OH	1:8:576:PRO:O	2.20	0.50
1:L:252:THR:HG22	1:L:253:GLN:HG3	1.92	0.50
1:N:375:ARG:HH11	1:N:396:THR:HG1	1.55	0.50
1:N:384:GLN:O	1:N:573:THR:OG1	2.27	0.50
1:U:252:THR:HG22	1:U:253:GLN:HG3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:252:THR:HG22	1:i:253:GLN:HG3	1.92	0.50
1:j:260:THR:HG21	1:k:173:THR:HG22	1.92	0.50
1:n:197:THR:O	1:n:382:HIS:NE2	2.40	0.50
1:u:341:PRO:HA	1:u:444:ASN:O	2.11	0.50
1:B:252:THR:HG22	1:B:253:GLN:HG3	1.92	0.50
1:E:284:THR:HG22	1:E:285:ASN:H	1.76	0.50
1:E:341:PRO:HA	1:E:444:ASN:O	2.11	0.50
1:J:252:THR:HG22	1:J:253:GLN:HG3	1.92	0.50
1:K:284:THR:HG22	1:K:285:ASN:H	1.76	0.50
1:b:341:PRO:HA	1:b:444:ASN:O	2.11	0.50
1:c:543:ASN:HD22	1:f:565:LEU:HD21	1.75	0.50
1:j:341:PRO:HA	1:j:444:ASN:O	2.11	0.50
1:l:252:THR:HG22	1:l:253:GLN:HG3	1.92	0.50
1:q:184:ASN:ND2	1:q:491:ASN:OD1	2.40	0.50
1:s:284:THR:HG22	1:s:285:ASN:H	1.76	0.50
1:A:284:THR:HG22	1:A:285:ASN:H	1.76	0.50
1:B:173:THR:HG22	1:C:260:THR:HG21	1.92	0.50
1:F:184:ASN:ND2	1:F:491:ASN:OD1	2.40	0.50
1:I:184:ASN:ND2	1:I:491:ASN:OD1	2.40	0.50
1:L:317:THR:HG21	1:L:322[B]:ARG:HH21	1.76	0.50
1:M:252:THR:HG22	1:M:253:GLN:HG3	1.93	0.50
1:Z:252:THR:HG22	1:Z:253:GLN:HG3	1.92	0.50
1:2:317:THR:HG21	1:2:322[B]:ARG:HH21	1.77	0.50
1:a:284:THR:HG22	1:a:285:ASN:H	1.76	0.50
1:e:284:THR:HG22	1:e:285:ASN:H	1.76	0.50
1:f:252:THR:HG22	1:f:253:GLN:HG3	1.92	0.50
1:g:284:THR:HG22	1:g:285:ASN:H	1.76	0.50
1:i:284:THR:HG22	1:i:285:ASN:H	1.76	0.50
1:m:252:THR:HG22	1:m:253:GLN:HG3	1.92	0.50
1:m:384:GLN:O	1:m:573:THR:OG1	2.27	0.50
1:s:317:THR:HG21	1:s:322[B]:ARG:HH21	1.75	0.50
1:w:284:THR:HG22	1:w:285:ASN:H	1.76	0.50
1:C:341:PRO:HA	1:C:444:ASN:O	2.11	0.50
1:K:341:PRO:HA	1:K:444:ASN:O	2.11	0.50
1:N:341:PRO:HA	1:N:444:ASN:O	2.11	0.50
1:V:341:PRO:HA	1:V:444:ASN:O	2.11	0.50
1:W:543:ASN:HD22	1:X:565:LEU:HD21	1.76	0.50
1:Y:284:THR:HG22	1:Y:285:ASN:H	1.76	0.50
1:Z:320:GLN:HG2	1:x:368:HIS:CD2	2.47	0.50
1:1:558:TYR:OH	1:1:576:PRO:O	2.20	0.50
1:6:368:HIS:CD2	1:a:320:GLN:HG2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:284:THR:HG22	1:c:285:ASN:H	1.76	0.50
1:d:173:THR:HG22	1:f:260:THR:HG21	1.92	0.50
1:p:173:THR:HG22	1:u:260:THR:HG21	1.92	0.50
1:8:317:THR:HG21	1:8:322[B]:ARG:HH21	1.77	0.50
1:G:184:ASN:ND2	1:G:491:ASN:OD1	2.40	0.50
1:H:410:ASN:HB2	1:W:347:THR:HG21	1.94	0.50
1:L:384:GLN:O	1:L:573:THR:OG1	2.27	0.50
1:M:284:THR:HG22	1:M:285:ASN:H	1.76	0.50
1:N:109:THR:OG1	1:N:211:TYR:O	2.24	0.50
1:T:184:ASN:ND2	1:T:491:ASN:OD1	2.40	0.50
1:U:260:THR:HG21	1:5:173:THR:HG22	1.93	0.50
1:V:320:GLN:HG2	1:5:368:HIS:CD2	2.47	0.50
1:1:341:PRO:HA	1:1:444:ASN:O	2.11	0.50
1:3:363:THR:HG22	1:3:364:GLN:N	2.27	0.50
1:6:173:THR:HG22	1:t:260:THR:HG21	1.93	0.50
1:a:341:PRO:HA	1:a:444:ASN:O	2.11	0.50
1:f:558:TYR:OH	1:f:576:PRO:O	2.20	0.50
1:h:341:PRO:HA	1:h:444:ASN:O	2.11	0.50
1:k:252:THR:HG22	1:k:253:GLN:HG3	1.93	0.50
1:o:363:THR:HG22	1:o:364:GLN:N	2.27	0.50
1:p:284:THR:HG22	1:p:285:ASN:H	1.76	0.50
1:y:109:THR:OG1	1:y:211:TYR:O	2.24	0.50
1:A:363:THR:HG22	1:A:364:GLN:N	2.27	0.49
1:B:341:PRO:HA	1:B:444:ASN:O	2.11	0.49
1:B:363:THR:HG22	1:B:364:GLN:N	2.27	0.49
1:B:384:GLN:O	1:B:573:THR:OG1	2.27	0.49
1:D:173:THR:HG22	1:E:260:THR:HG21	1.93	0.49
1:G:543:ASN:HD22	1:H:565:LEU:HD21	1.77	0.49
1:H:219:ARG:HH21	1:H:221:LEU:HD13	1.78	0.49
1:Q:363:THR:HG22	1:Q:364:GLN:N	2.27	0.49
1:T:363:THR:HG22	1:T:364:GLN:N	2.27	0.49
1:U:341:PRO:HA	1:U:444:ASN:O	2.11	0.49
1:W:363:THR:HG22	1:W:364:GLN:N	2.27	0.49
1:2:284:THR:HG22	1:2:285:ASN:H	1.76	0.49
1:2:363:THR:HG22	1:2:364:GLN:N	2.27	0.49
1:3:284:THR:HG22	1:3:285:ASN:H	1.76	0.49
1:4:123:PHE:O	1:4:462:TYR:OH	2.16	0.49
1:4:284:THR:HG22	1:4:285:ASN:H	1.76	0.49
1:4:317:THR:HG21	1:4:322[B]:ARG:HH21	1.76	0.49
1:g:341:PRO:HA	1:g:444:ASN:O	2.11	0.49
1:m:375:ARG:HH11	1:m:396:THR:HG1	1.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:260:THR:HG21	1:z:173:THR:HG22	1.93	0.49
1:s:363:THR:HG22	1:s:364:GLN:N	2.27	0.49
1:w:219:ARG:HH21	1:w:221:LEU:HD13	1.78	0.49
1:7:363:THR:HG22	1:7:364:GLN:N	2.27	0.49
1:D:363:THR:HG22	1:D:364:GLN:N	2.27	0.49
1:F:173:THR:HG22	1:R:260:THR:HG21	1.92	0.49
1:F:284:THR:HG22	1:F:285:ASN:H	1.76	0.49
1:L:260:THR:HG21	1:2:173:THR:HG22	1.93	0.49
1:N:363:THR:HG22	1:N:364:GLN:N	2.27	0.49
1:Q:109:THR:OG1	1:Q:211:TYR:O	2.24	0.49
1:R:219:ARG:HH21	1:R:221:LEU:HD13	1.78	0.49
1:U:278:LEU:C	1:U:580:ARG:HG2	2.38	0.49
1:X:278:LEU:C	1:X:580:ARG:HG2	2.38	0.49
1:X:363:THR:HG22	1:X:364:GLN:N	2.27	0.49
1:Z:368:HIS:CD2	1:w:320:GLN:HG2	2.47	0.49
1:3:173:THR:HG22	1:m:260:THR:HG21	1.93	0.49
1:4:320:GLN:HG2	1:f:368:HIS:CD2	2.47	0.49
1:b:278:LEU:C	1:b:580:ARG:HG2	2.38	0.49
1:c:219:ARG:HH21	1:c:221:LEU:HD13	1.78	0.49
1:d:219:ARG:HH21	1:d:221:LEU:HD13	1.78	0.49
1:e:173:THR:HG22	1:q:260:THR:HG21	1.93	0.49
1:e:363:THR:HG22	1:e:364:GLN:N	2.27	0.49
1:k:341:PRO:HA	1:k:444:ASN:O	2.11	0.49
1:k:363:THR:HG22	1:k:364:GLN:N	2.27	0.49
1:n:284:THR:HG22	1:n:285:ASN:H	1.76	0.49
1:o:109:THR:OG1	1:o:211:TYR:O	2.24	0.49
1:q:368:HIS:CD2	1:s:320:GLN:HG2	2.47	0.49
1:t:278:LEU:C	1:t:580:ARG:HG2	2.38	0.49
1:t:320:GLN:HG2	1:u:368:HIS:CD2	2.48	0.49
1:t:341:PRO:HA	1:t:444:ASN:O	2.11	0.49
1:u:219:ARG:HH21	1:u:221:LEU:HD13	1.78	0.49
1:x:219:ARG:HH21	1:x:221:LEU:HD13	1.77	0.49
1:x:363:THR:HG22	1:x:364:GLN:N	2.27	0.49
1:7:109:THR:OG1	1:7:211:TYR:O	2.24	0.49
1:7:341:PRO:HA	1:7:444:ASN:O	2.11	0.49
1:A:123:PHE:O	1:A:462:TYR:OH	2.16	0.49
1:F:368:HIS:CD2	1:Q:320:GLN:HG2	2.47	0.49
1:I:363:THR:HG22	1:I:364:GLN:N	2.27	0.49
1:K:173:THR:HG22	1:7:260:THR:HG21	1.94	0.49
1:K:326:THR:HG21	1:1:100:MET:HA	1.94	0.49
1:P:219:ARG:HH21	1:P:221:LEU:HD13	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:278:LEU:C	1:Q:580:ARG:HG2	2.38	0.49
1:T:123:PHE:O	1:T:462:TYR:OH	2.16	0.49
1:T:368:HIS:CD2	1:f:320:GLN:HG2	2.48	0.49
1:U:317:THR:HG21	1:U:322[B]:ARG:HH21	1.77	0.49
1:Y:219:ARG:HH21	1:Y:221:LEU:HD13	1.78	0.49
1:Z:558:TYR:OH	1:Z:576:PRO:O	2.20	0.49
1:3:219:ARG:HH21	1:3:221:LEU:HD13	1.78	0.49
1:3:368:HIS:CD2	1:j:320:GLN:HG2	2.47	0.49
1:4:219:ARG:HH21	1:4:221:LEU:HD13	1.78	0.49
1:a:109:THR:OG1	1:a:211:TYR:O	2.24	0.49
1:a:252:THR:HG22	1:a:253:GLN:HG3	1.92	0.49
1:b:363:THR:HG22	1:b:364:GLN:N	2.27	0.49
1:b:543:ASN:HD22	1:e:565:LEU:HD21	1.76	0.49
1:c:278:LEU:C	1:c:580:ARG:HG2	2.38	0.49
1:i:278:LEU:C	1:i:580:ARG:HG2	2.38	0.49
1:m:184:ASN:ND2	1:m:491:ASN:OD1	2.40	0.49
1:o:278:LEU:C	1:o:580:ARG:HG2	2.38	0.49
1:r:278:LEU:C	1:r:580:ARG:HG2	2.38	0.49
1:r:363:THR:HG22	1:r:364:GLN:N	2.27	0.49
1:y:219:ARG:HH21	1:y:221:LEU:HD13	1.78	0.49
1:z:363:THR:HG22	1:z:364:GLN:N	2.27	0.49
1:A:320:GLN:HG2	1:G:368:HIS:CD2	2.47	0.49
1:H:216:SER:HB3	1:Y:282:TRP:CE3	2.47	0.49
1:I:219:ARG:HH21	1:I:221:LEU:HD13	1.78	0.49
1:I:278:LEU:C	1:I:580:ARG:HG2	2.38	0.49
1:J:363:THR:HG22	1:J:364:GLN:N	2.27	0.49
1:L:219:ARG:HH21	1:L:221:LEU:HD13	1.78	0.49
1:L:375:ARG:HH11	1:L:396:THR:HG1	1.55	0.49
1:M:278:LEU:C	1:M:580:ARG:HG2	2.38	0.49
1:O:219:ARG:HH21	1:O:221:LEU:HD13	1.78	0.49
1:P:260:THR:HG21	1:Q:173:THR:HG22	1.93	0.49
1:R:384:GLN:O	1:R:573:THR:OG1	2.27	0.49
1:T:219:ARG:HH21	1:T:221:LEU:HD13	1.78	0.49
1:T:278:LEU:C	1:T:580:ARG:HG2	2.38	0.49
1:Y:278:LEU:C	1:Y:580:ARG:HG2	2.38	0.49
1:Z:278:LEU:C	1:Z:580:ARG:HG2	2.38	0.49
1:a:558:TYR:OH	1:a:576:PRO:O	2.20	0.49
1:e:219:ARG:HH21	1:e:221:LEU:HD13	1.78	0.49
1:k:384:GLN:O	1:k:573:THR:OG1	2.27	0.49
1:m:219:ARG:HH21	1:m:221:LEU:HD13	1.78	0.49
1:m:341:PRO:HA	1:m:444:ASN:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:173:THR:HG22	1:y:260:THR:HG21	1.93	0.49
1:o:219:ARG:HH21	1:o:221:LEU:HD13	1.78	0.49
1:o:320:GLN:HG2	1:p:368:HIS:CD2	2.48	0.49
1:w:123:PHE:O	1:w:462:TYR:OH	2.16	0.49
1:C:320:GLN:HG2	1:2:368:HIS:CD2	2.47	0.49
1:E:219:ARG:HH21	1:E:221:LEU:HD13	1.78	0.49
1:E:320:GLN:HG2	1:Q:368:HIS:CD2	2.48	0.49
1:F:278:LEU:C	1:F:580:ARG:HG2	2.38	0.49
1:J:320:GLN:HG2	1:L:368:HIS:CD2	2.48	0.49
1:K:317:THR:HG21	1:K:322[B]:ARG:HH21	1.78	0.49
1:N:278:LEU:C	1:N:580:ARG:HG2	2.38	0.49
1:N:320:GLN:HG2	1:P:368:HIS:CD2	2.48	0.49
1:Q:217:CYS:SG	1:Q:236:MET:HE2	2.53	0.49
1:Q:219:ARG:HH21	1:Q:221:LEU:HD13	1.78	0.49
1:R:368:HIS:CD2	1:U:320:GLN:HG2	2.48	0.49
1:W:219:ARG:HH21	1:W:221:LEU:HD13	1.78	0.49
1:X:219:ARG:HH21	1:X:221:LEU:HD13	1.78	0.49
1:Z:217:CYS:SG	1:Z:236:MET:HE2	2.53	0.49
1:2:219:ARG:HH21	1:2:221:LEU:HD13	1.78	0.49
1:4:278:LEU:C	1:4:580:ARG:HG2	2.38	0.49
1:6:219:ARG:HH21	1:6:221:LEU:HD13	1.77	0.49
1:a:105:GLU:HB3	1:a:215:PHE:O	2.13	0.49
1:a:278:LEU:C	1:a:580:ARG:HG2	2.38	0.49
1:f:217:CYS:SG	1:f:236:MET:HE2	2.53	0.49
1:f:278:LEU:C	1:f:580:ARG:HG2	2.38	0.49
1:l:320:GLN:HG2	1:m:368:HIS:CD2	2.48	0.49
1:n:320:GLN:HG2	1:o:368:HIS:CD2	2.48	0.49
1:p:278:LEU:C	1:p:580:ARG:HG2	2.38	0.49
1:r:219:ARG:HH21	1:r:221:LEU:HD13	1.78	0.49
1:w:278:LEU:C	1:w:580:ARG:HG2	2.38	0.49
1:8:219:ARG:HH21	1:8:221:LEU:HD13	1.78	0.49
1:A:105:GLU:HB3	1:A:215:PHE:O	2.13	0.49
1:A:217:CYS:SG	1:A:236:MET:HE2	2.53	0.49
1:A:368:HIS:CD2	1:I:320:GLN:HG2	2.47	0.49
1:B:105:GLU:HB3	1:B:215:PHE:O	2.13	0.49
1:C:278:LEU:C	1:C:580:ARG:HG2	2.38	0.49
1:C:368:HIS:CD2	1:M:320:GLN:HG2	2.48	0.49
1:D:105:GLU:HB3	1:D:215:PHE:O	2.13	0.49
1:D:217:CYS:SG	1:D:236:MET:HE2	2.53	0.49
1:E:278:LEU:C	1:E:580:ARG:HG2	2.37	0.49
1:E:368:HIS:CD2	1:F:320:GLN:HG2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:105:GLU:HB2	1:F:217:CYS:HB2	1.95	0.49
1:F:341:PRO:HA	1:F:444:ASN:O	2.11	0.49
1:F:363:THR:HG22	1:F:364:GLN:N	2.27	0.49
1:I:217:CYS:SG	1:I:236:MET:HE2	2.53	0.49
1:J:219:ARG:HH21	1:J:221:LEU:HD13	1.78	0.49
1:J:278:LEU:C	1:J:580:ARG:HG2	2.38	0.49
1:L:341:PRO:HA	1:L:444:ASN:O	2.11	0.49
1:O:320:GLN:HG2	1:g:368:HIS:CD2	2.48	0.49
1:S:105:GLU:HB3	1:S:215:PHE:O	2.13	0.49
1:T:105:GLU:HB3	1:T:215:PHE:O	2.13	0.49
1:U:217:CYS:SG	1:U:236:MET:HE2	2.53	0.49
1:V:105:GLU:HB3	1:V:215:PHE:O	2.13	0.49
1:V:252:THR:HG22	1:V:253:GLN:HG3	1.92	0.49
1:V:278:LEU:C	1:V:580:ARG:HG2	2.38	0.49
1:X:368:HIS:CD2	1:5:320:GLN:HG2	2.47	0.49
1:Y:252:THR:HG22	1:Y:253:GLN:HG3	1.92	0.49
1:Y:363:THR:HG22	1:Y:364:GLN:N	2.28	0.49
1:3:217:CYS:SG	1:3:236:MET:HE2	2.53	0.49
1:3:317:THR:HG21	1:3:322[B]:ARG:HH21	1.77	0.49
1:5:219:ARG:HH21	1:5:221:LEU:HD13	1.78	0.49
1:c:252:THR:HG22	1:c:253:GLN:HG3	1.92	0.49
1:j:278:LEU:C	1:j:580:ARG:HG2	2.38	0.49
1:k:105:GLU:HB3	1:k:215:PHE:O	2.13	0.49
1:l:219:ARG:HH21	1:l:221:LEU:HD13	1.78	0.49
1:l:363:THR:HG22	1:l:364:GLN:N	2.27	0.49
1:m:217:CYS:SG	1:m:236:MET:HE2	2.53	0.49
1:n:219:ARG:HH21	1:n:221:LEU:HD13	1.78	0.49
1:n:368:HIS:CD2	1:p:320:GLN:HG2	2.47	0.49
1:o:217:CYS:SG	1:o:236:MET:HE2	2.53	0.49
1:p:363:THR:HG22	1:p:364:GLN:N	2.27	0.49
1:r:217:CYS:SG	1:r:236:MET:HE2	2.53	0.49
1:s:105:GLU:HB3	1:s:215:PHE:O	2.13	0.49
1:s:123:PHE:O	1:s:462:TYR:OH	2.16	0.49
1:s:217:CYS:SG	1:s:236:MET:HE2	2.53	0.49
1:t:217:CYS:SG	1:t:236:MET:HE2	2.53	0.49
1:v:105:GLU:HB3	1:v:215:PHE:O	2.13	0.49
1:v:278:LEU:C	1:v:580:ARG:HG2	2.38	0.49
1:w:109:THR:OG1	1:w:211:TYR:O	2.24	0.49
1:x:278:LEU:C	1:x:580:ARG:HG2	2.38	0.49
1:z:105:GLU:HB3	1:z:215:PHE:O	2.13	0.49
1:z:217:CYS:SG	1:z:236:MET:HE2	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:278:LEU:C	1:7:580:ARG:HG2	2.38	0.49
1:8:217:CYS:SG	1:8:236:MET:HE2	2.53	0.49
1:L:217:CYS:SG	1:L:236:MET:HE2	2.53	0.49
1:O:217:CYS:SG	1:O:236:MET:HE2	2.53	0.49
1:P:217:CYS:SG	1:P:236:MET:HE2	2.53	0.49
1:S:105:GLU:HB2	1:S:217:CYS:HB2	1.95	0.49
1:S:278:LEU:C	1:S:580:ARG:HG2	2.38	0.49
1:V:105:GLU:HB2	1:V:217:CYS:HB2	1.95	0.49
1:V:109:THR:OG1	1:V:211:TYR:O	2.24	0.49
1:W:105:GLU:HB2	1:W:217:CYS:HB2	1.95	0.49
1:Z:105:GLU:HB2	1:Z:217:CYS:HB2	1.95	0.49
1:1:320:GLN:HG2	1:8:368:HIS:CD2	2.47	0.49
1:1:327:GLU:OE2	1:8:214:TYR:OH	2.22	0.49
1:2:217:CYS:SG	1:2:236:MET:HE2	2.53	0.49
1:6:320:GLN:HG2	1:b:368:HIS:CD2	2.47	0.49
1:a:105:GLU:HB2	1:a:217:CYS:HB2	1.95	0.49
1:b:219:ARG:HH21	1:b:221:LEU:HD13	1.78	0.49
1:c:363:THR:HG22	1:c:364:GLN:N	2.28	0.49
1:e:105:GLU:HB2	1:e:217:CYS:HB2	1.95	0.49
1:i:320:GLN:HG2	1:j:368:HIS:CD2	2.48	0.49
1:l:278:LEU:C	1:l:580:ARG:HG2	2.38	0.49
1:n:278:LEU:C	1:n:580:ARG:HG2	2.38	0.49
1:p:105:GLU:HB2	1:p:217:CYS:HB2	1.95	0.49
1:p:341:PRO:HA	1:p:444:ASN:O	2.11	0.49
1:u:384:GLN:O	1:u:573:THR:OG1	2.27	0.49
1:v:105:GLU:HB2	1:v:217:CYS:HB2	1.95	0.49
1:v:219:ARG:HH21	1:v:221:LEU:HD13	1.78	0.49
1:w:217:CYS:SG	1:w:236:MET:HE2	2.53	0.49
1:x:105:GLU:HB3	1:x:215:PHE:O	2.13	0.49
1:y:184:ASN:ND2	1:y:491:ASN:OD1	2.40	0.49
1:y:217:CYS:SG	1:y:236:MET:HE2	2.53	0.49
1:F:105:GLU:HB3	1:F:215:PHE:O	2.13	0.49
1:H:105:GLU:HB3	1:H:215:PHE:O	2.13	0.49
1:H:217:CYS:SG	1:H:236:MET:HE2	2.53	0.49
1:N:105:GLU:HB2	1:N:217:CYS:HB2	1.95	0.49
1:O:368:HIS:CD2	1:h:320:GLN:HG2	2.47	0.49
1:S:320:GLN:HG2	1:U:368:HIS:CD2	2.48	0.49
1:U:219:ARG:HH21	1:U:221:LEU:HD13	1.77	0.49
1:U:363:THR:HG22	1:U:364:GLN:N	2.27	0.49
1:W:278:LEU:C	1:W:580:ARG:HG2	2.37	0.49
1:1:219:ARG:HH21	1:1:221:LEU:HD13	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:217:CYS:SG	1:4:236:MET:HE2	2.53	0.49
1:5:217:CYS:SG	1:5:236:MET:HE2	2.53	0.49
1:6:384:GLN:O	1:6:573:THR:OG1	2.27	0.49
1:d:105:GLU:HB3	1:d:215:PHE:O	2.13	0.49
1:e:278:LEU:C	1:e:580:ARG:HG2	2.38	0.49
1:f:105:GLU:HB2	1:f:217:CYS:HB2	1.95	0.49
1:g:105:GLU:HB2	1:g:217:CYS:HB2	1.95	0.49
1:g:320:GLN:HG2	1:h:368:HIS:CD2	2.47	0.49
1:n:105:GLU:HB3	1:n:215:PHE:O	2.13	0.49
1:q:217:CYS:SG	1:q:236:MET:HE2	2.53	0.49
1:r:320:GLN:HG2	1:s:368:HIS:CD2	2.47	0.49
1:t:326:THR:HG21	1:u:100:MET:HA	1.95	0.49
1:t:363:THR:HG22	1:t:364:GLN:N	2.27	0.49
1:x:375:ARG:HH11	1:x:396:THR:HG1	1.58	0.49
1:y:368:HIS:CD2	1:7:320:GLN:HG2	2.48	0.49
1:7:105:GLU:HB2	1:7:217:CYS:HB2	1.95	0.49
1:B:368:HIS:CD2	1:L:320:GLN:HG2	2.48	0.49
1:E:105:GLU:HB3	1:E:215:PHE:O	2.13	0.49
1:K:105:GLU:HB2	1:K:217:CYS:HB2	1.95	0.49
1:K:217:CYS:SG	1:K:236:MET:HE2	2.53	0.49
1:L:105:GLU:HB3	1:L:215:PHE:O	2.13	0.49
1:S:219:ARG:HH21	1:S:221:LEU:HD13	1.78	0.49
1:Y:217:CYS:SG	1:Y:236:MET:HE2	2.53	0.49
1:Y:386:TRP:HH2	1:x:510:PRO:O	1.96	0.49
1:4:105:GLU:HB3	1:4:215:PHE:O	2.13	0.49
1:5:278:LEU:C	1:5:580:ARG:HG2	2.38	0.49
1:6:217:CYS:SG	1:6:236:MET:HE2	2.53	0.49
1:6:278:LEU:C	1:6:580:ARG:HG2	2.38	0.49
1:b:105:GLU:HB3	1:b:215:PHE:O	2.13	0.49
1:c:217:CYS:SG	1:c:236:MET:HE2	2.53	0.49
1:c:558:TYR:OH	1:c:576:PRO:O	2.20	0.49
1:d:217:CYS:SG	1:d:236:MET:HE2	2.53	0.49
1:d:284:THR:HG22	1:d:285:ASN:H	1.76	0.49
1:h:219:ARG:HH21	1:h:221:LEU:HD13	1.77	0.49
1:k:278:LEU:C	1:k:580:ARG:HG2	2.38	0.49
1:n:363:THR:HG22	1:n:364:GLN:N	2.27	0.49
1:p:109:THR:OG1	1:p:211:TYR:O	2.24	0.49
1:t:368:HIS:CD2	1:v:320:GLN:HG2	2.48	0.49
1:w:105:GLU:HB3	1:w:215:PHE:O	2.13	0.49
1:y:363:THR:HG22	1:y:364:GLN:N	2.27	0.49
1:7:217:CYS:SG	1:7:236:MET:HE2	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:LEU:C	1:A:580:ARG:HG2	2.37	0.49
1:B:100:MET:HA	1:L:326:THR:HG21	1.95	0.49
1:B:105:GLU:HB2	1:B:217:CYS:HB2	1.95	0.49
1:C:219:ARG:HH21	1:C:221:LEU:HD13	1.78	0.49
1:E:363:THR:HG22	1:E:364:GLN:N	2.28	0.49
1:H:173:THR:HG22	1:Z:260:THR:HG21	1.93	0.49
1:H:284:THR:HG22	1:H:285:ASN:H	1.76	0.49
1:K:384:GLN:O	1:K:573:THR:OG1	2.27	0.49
1:N:217:CYS:SG	1:N:236:MET:HE2	2.53	0.49
1:P:184:ASN:ND2	1:P:491:ASN:OD1	2.40	0.49
1:R:100:MET:HA	1:U:326:THR:HG21	1.95	0.49
1:X:105:GLU:HB3	1:X:215:PHE:O	2.13	0.49
1:Y:558:TYR:OH	1:Y:576:PRO:O	2.20	0.49
1:1:278:LEU:C	1:1:580:ARG:HG2	2.37	0.49
1:c:100:MET:HA	1:e:326:THR:HG21	1.94	0.49
1:d:326:THR:HG21	1:e:100:MET:HA	1.95	0.49
1:g:217:CYS:SG	1:g:236:MET:HE2	2.53	0.49
1:g:363:THR:HG22	1:g:364:GLN:N	2.27	0.49
1:g:384:GLN:O	1:g:573:THR:OG1	2.27	0.49
1:m:105:GLU:HB2	1:m:217:CYS:HB2	1.95	0.49
1:m:363:THR:HG22	1:m:364:GLN:N	2.27	0.49
1:p:105:GLU:HB3	1:p:215:PHE:O	2.13	0.49
1:w:368:HIS:CD2	1:x:320:GLN:HG2	2.47	0.49
1:B:278:LEU:C	1:B:580:ARG:HG2	2.38	0.48
1:C:105:GLU:HB2	1:C:217:CYS:HB2	1.95	0.48
1:D:326:THR:HG21	1:N:100:MET:HA	1.94	0.48
1:E:317:THR:HG21	1:E:322[B]:ARG:HH21	1.78	0.48
1:G:217:CYS:SG	1:G:236:MET:HE2	2.53	0.48
1:K:363:THR:HG22	1:K:364:GLN:N	2.27	0.48
1:K:368:HIS:CD2	1:8:320:GLN:HG2	2.48	0.48
1:L:363:THR:HG22	1:L:364:GLN:N	2.27	0.48
1:O:197:THR:O	1:O:382:HIS:NE2	2.40	0.48
1:P:363:THR:HG22	1:P:364:GLN:N	2.28	0.48
1:S:284:THR:HG22	1:S:285:ASN:H	1.76	0.48
1:U:109:THR:OG1	1:U:211:TYR:O	2.24	0.48
1:Z:105:GLU:HB3	1:Z:215:PHE:O	2.13	0.48
1:5:384:GLN:O	1:5:573:THR:OG1	2.27	0.48
1:6:363:THR:HG22	1:6:364:GLN:N	2.27	0.48
1:c:326:THR:HG21	1:d:100:MET:HA	1.95	0.48
1:f:105:GLU:HB3	1:f:215:PHE:O	2.13	0.48
1:f:341:PRO:HA	1:f:444:ASN:O	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:278:LEU:C	1:h:580:ARG:HG2	2.38	0.48
1:j:219:ARG:HH21	1:j:221:LEU:HD13	1.78	0.48
1:k:100:MET:HA	1:m:326:THR:HG21	1.95	0.48
1:k:105:GLU:HB2	1:k:217:CYS:HB2	1.95	0.48
1:k:217:CYS:SG	1:k:236:MET:HE2	2.53	0.48
1:m:105:GLU:HB3	1:m:215:PHE:O	2.13	0.48
1:m:278:LEU:C	1:m:580:ARG:HG2	2.38	0.48
1:w:423:ASN:HB3	1:w:426:GLN:OE1	2.13	0.48
1:x:317:THR:HG21	1:x:322[B]:ARG:HH21	1.78	0.48
1:8:197:THR:O	1:8:382:HIS:NE2	2.40	0.48
1:A:423:ASN:HB3	1:A:426:GLN:OE1	2.14	0.48
1:B:279:THR:OG1	1:B:584:ARG:HD3	2.14	0.48
1:C:217:CYS:SG	1:C:236:MET:HE2	2.53	0.48
1:D:105:GLU:HB2	1:D:217:CYS:HB2	1.95	0.48
1:F:109:THR:OG1	1:F:211:TYR:O	2.24	0.48
1:J:217:CYS:SG	1:J:236:MET:HE2	2.53	0.48
1:J:423:ASN:HB3	1:J:426:GLN:OE1	2.14	0.48
1:K:510:PRO:O	1:7:386:TRP:HH2	1.96	0.48
1:L:105:GLU:HB2	1:L:217:CYS:HB2	1.95	0.48
1:L:278:LEU:C	1:L:580:ARG:HG2	2.38	0.48
1:N:105:GLU:HB3	1:N:215:PHE:O	2.13	0.48
1:O:278:LEU:C	1:O:580:ARG:HG2	2.38	0.48
1:Q:317:THR:HG21	1:Q:322[B]:ARG:HH21	1.76	0.48
1:R:363:THR:HG22	1:R:364:GLN:N	2.27	0.48
1:W:105:GLU:HB3	1:W:215:PHE:O	2.13	0.48
1:W:384:GLN:O	1:W:573:THR:OG1	2.27	0.48
1:X:217:CYS:SG	1:X:236:MET:HE2	2.53	0.48
1:Z:279:THR:OG1	1:Z:584:ARG:HD3	2.14	0.48
1:Z:423:ASN:HB3	1:Z:426:GLN:OE1	2.14	0.48
1:4:423:ASN:HB3	1:4:426:GLN:OE1	2.14	0.48
1:5:363:THR:HG22	1:5:364:GLN:N	2.28	0.48
1:b:217:CYS:SG	1:b:236:MET:HE2	2.53	0.48
1:c:320:GLN:HG2	1:d:368:HIS:CD2	2.48	0.48
1:d:320:GLN:HG2	1:e:368:HIS:CD2	2.48	0.48
1:f:279:THR:OG1	1:f:584:ARG:HD3	2.14	0.48
1:k:279:THR:OG1	1:k:584:ARG:HD3	2.14	0.48
1:k:368:HIS:CD2	1:m:320:GLN:HG2	2.48	0.48
1:l:105:GLU:HB2	1:l:217:CYS:HB2	1.95	0.48
1:l:423:ASN:HB3	1:l:426:GLN:OE1	2.13	0.48
1:n:314:SER:HB2	1:o:392:LYS:HZ2	1.78	0.48
1:r:327:GLU:OE2	1:s:214:TYR:OH	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:278:LEU:C	1:s:580:ARG:HG2	2.38	0.48
1:s:423:ASN:HB3	1:s:426:GLN:OE1	2.14	0.48
1:t:219:ARG:HH21	1:t:221:LEU:HD13	1.78	0.48
1:t:279:THR:OG1	1:t:584:ARG:HD3	2.14	0.48
1:y:278:LEU:C	1:y:580:ARG:HG2	2.38	0.48
1:z:105:GLU:HB2	1:z:217:CYS:HB2	1.95	0.48
1:z:326:THR:HG21	1:7:100:MET:HA	1.94	0.48
1:7:105:GLU:HB3	1:7:215:PHE:O	2.13	0.48
1:8:278:LEU:C	1:8:580:ARG:HG2	2.38	0.48
1:B:217:CYS:SG	1:B:236:MET:HE2	2.53	0.48
1:B:320:GLN:HG2	1:J:368:HIS:CD2	2.48	0.48
1:B:326:THR:HG21	1:J:100:MET:HA	1.95	0.48
1:F:279:THR:OG1	1:F:584:ARG:HD3	2.13	0.48
1:H:279:THR:OG1	1:H:584:ARG:HD3	2.14	0.48
1:J:105:GLU:HB2	1:J:217:CYS:HB2	1.95	0.48
1:K:279:THR:OG1	1:K:584:ARG:HD3	2.14	0.48
1:K:423:ASN:HB3	1:K:426:GLN:OE1	2.13	0.48
1:L:423:ASN:HB3	1:L:426:GLN:OE1	2.13	0.48
1:M:105:GLU:HB3	1:M:215:PHE:O	2.13	0.48
1:N:279:THR:OG1	1:N:584:ARG:HD3	2.14	0.48
1:O:363:THR:HG22	1:O:364:GLN:N	2.27	0.48
1:Q:105:GLU:HB2	1:Q:217:CYS:HB2	1.95	0.48
1:T:279:THR:OG1	1:T:584:ARG:HD3	2.14	0.48
1:T:320:GLN:HG2	1:4:368:HIS:CD2	2.47	0.48
1:T:375:ARG:HH11	1:T:396:THR:HG1	1.58	0.48
1:U:279:THR:OG1	1:U:584:ARG:HD3	2.14	0.48
1:V:423:ASN:HB3	1:V:426:GLN:OE1	2.14	0.48
1:X:279:THR:OG1	1:X:584:ARG:HD3	2.14	0.48
1:Y:105:GLU:HB3	1:Y:215:PHE:O	2.13	0.48
1:Z:219:ARG:HH21	1:Z:221:LEU:HD13	1.78	0.48
1:Z:341:PRO:HA	1:Z:444:ASN:O	2.11	0.48
1:4:363:THR:HG22	1:4:364:GLN:N	2.28	0.48
1:a:423:ASN:HB3	1:a:426:GLN:OE1	2.14	0.48
1:b:279:THR:OG1	1:b:584:ARG:HD3	2.14	0.48
1:d:279:THR:OG1	1:d:584:ARG:HD3	2.14	0.48
1:e:105:GLU:HB3	1:e:215:PHE:O	2.13	0.48
1:f:423:ASN:HB3	1:f:426:GLN:OE1	2.13	0.48
1:g:219:ARG:HH21	1:g:221:LEU:HD13	1.78	0.48
1:g:279:THR:OG1	1:g:584:ARG:HD3	2.14	0.48
1:h:279:THR:OG1	1:h:584:ARG:HD3	2.14	0.48
1:i:105:GLU:HB3	1:i:215:PHE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:105:GLU:HB2	1:i:217:CYS:HB2	1.95	0.48
1:i:363:THR:HG22	1:i:364:GLN:N	2.28	0.48
1:j:105:GLU:HB2	1:j:217:CYS:HB2	1.95	0.48
1:j:279:THR:OG1	1:j:584:ARG:HD3	2.14	0.48
1:j:363:THR:HG22	1:j:364:GLN:N	2.27	0.48
1:k:320:GLN:HG2	1:l:368:HIS:CD2	2.48	0.48
1:l:217:CYS:SG	1:l:236:MET:HE2	2.53	0.48
1:n:105:GLU:HB2	1:n:217:CYS:HB2	1.95	0.48
1:o:105:GLU:HB2	1:o:217:CYS:HB2	1.95	0.48
1:p:279:THR:OG1	1:p:584:ARG:HD3	2.14	0.48
1:r:423:ASN:HB3	1:r:426:GLN:OE1	2.14	0.48
1:v:363:THR:HG22	1:v:364:GLN:N	2.27	0.48
1:w:363:THR:HG22	1:w:364:GLN:N	2.28	0.48
1:w:386:TRP:HH2	1:8:510:PRO:O	1.97	0.48
1:x:279:THR:OG1	1:x:584:ARG:HD3	2.14	0.48
1:7:219:ARG:HH21	1:7:221:LEU:HD13	1.78	0.48
1:7:279:THR:OG1	1:7:584:ARG:HD3	2.14	0.48
1:A:214:TYR:OH	1:I:327:GLU:OE2	2.22	0.48
1:C:279:THR:OG1	1:C:584:ARG:HD3	2.14	0.48
1:D:100:MET:HA	1:P:326:THR:HG21	1.95	0.48
1:D:123:PHE:O	1:D:462:TYR:OH	2.16	0.48
1:D:278:LEU:C	1:D:580:ARG:HG2	2.38	0.48
1:D:368:HIS:CD2	1:P:320:GLN:HG2	2.49	0.48
1:E:105:GLU:HB2	1:E:217:CYS:HB2	1.95	0.48
1:G:105:GLU:HB2	1:G:217:CYS:HB2	1.95	0.48
1:I:105:GLU:HB3	1:I:215:PHE:O	2.13	0.48
1:I:279:THR:OG1	1:I:584:ARG:HD3	2.14	0.48
1:I:423:ASN:HB3	1:I:426:GLN:OE1	2.14	0.48
1:K:214:TYR:OH	1:8:327:GLU:OE2	2.22	0.48
1:K:278:LEU:C	1:K:580:ARG:HG2	2.38	0.48
1:L:279:THR:OG1	1:L:584:ARG:HD3	2.14	0.48
1:M:105:GLU:HB2	1:M:217:CYS:HB2	1.95	0.48
1:M:217:CYS:SG	1:M:236:MET:HE2	2.53	0.48
1:M:368:HIS:CD2	1:2:320:GLN:HG2	2.47	0.48
1:N:219:ARG:HH21	1:N:221:LEU:HD13	1.78	0.48
1:N:423:ASN:HB3	1:N:426:GLN:OE1	2.14	0.48
1:O:317:THR:HG21	1:O:322[B]:ARG:HH21	1.78	0.48
1:P:278:LEU:C	1:P:580:ARG:HG2	2.38	0.48
1:P:279:THR:OG1	1:P:584:ARG:HD3	2.14	0.48
1:P:317:THR:HG21	1:P:322[B]:ARG:HH21	1.78	0.48
1:R:105:GLU:HB3	1:R:215:PHE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:278:LEU:C	1:R:580:ARG:HG2	2.38	0.48
1:X:423:ASN:HB3	1:X:426:GLN:OE1	2.14	0.48
1:1:363:THR:HG22	1:1:364:GLN:N	2.27	0.48
1:2:105:GLU:HB3	1:2:215:PHE:O	2.13	0.48
1:b:423:ASN:HB3	1:b:426:GLN:OE1	2.14	0.48
1:c:105:GLU:HB3	1:c:215:PHE:O	2.13	0.48
1:d:105:GLU:HB2	1:d:217:CYS:HB2	1.95	0.48
1:e:423:ASN:HB3	1:e:426:GLN:OE1	2.14	0.48
1:g:423:ASN:HB3	1:g:426:GLN:OE1	2.14	0.48
1:h:363:THR:HG22	1:h:364:GLN:N	2.27	0.48
1:i:217:CYS:SG	1:i:236:MET:HE2	2.53	0.48
1:j:217:CYS:SG	1:j:236:MET:HE2	2.53	0.48
1:k:326:THR:HG21	1:l:100:MET:HA	1.95	0.48
1:m:279:THR:OG1	1:m:584:ARG:HD3	2.14	0.48
1:m:423:ASN:HB3	1:m:426:GLN:OE1	2.14	0.48
1:q:278:LEU:C	1:q:580:ARG:HG2	2.38	0.48
1:r:279:THR:OG1	1:r:584:ARG:HD3	2.14	0.48
1:t:109:THR:OG1	1:t:211:TYR:O	2.24	0.48
1:u:105:GLU:HB3	1:u:215:PHE:O	2.13	0.48
1:u:363:THR:HG22	1:u:364:GLN:N	2.27	0.48
1:v:284:THR:HG22	1:v:285:ASN:H	1.76	0.48
1:y:320:GLN:HG2	1:z:368:HIS:CD2	2.49	0.48
1:y:326:THR:HG21	1:z:100:MET:HA	1.95	0.48
1:8:363:THR:HG22	1:8:364:GLN:N	2.28	0.48
1:A:105:GLU:HB2	1:A:217:CYS:HB2	1.95	0.48
1:C:184:ASN:ND2	1:C:491:ASN:OD1	2.40	0.48
1:C:363:THR:HG22	1:C:364:GLN:N	2.28	0.48
1:D:423:ASN:HB3	1:D:426:GLN:OE1	2.14	0.48
1:E:100:MET:HA	1:F:326:THR:HG21	1.96	0.48
1:E:217:CYS:SG	1:E:236:MET:HE2	2.53	0.48
1:G:278:LEU:C	1:G:580:ARG:HG2	2.38	0.48
1:G:320:GLN:HG2	1:I:368:HIS:CD2	2.48	0.48
1:H:105:GLU:HB2	1:H:217:CYS:HB2	1.95	0.48
1:M:363:THR:HG22	1:M:364:GLN:N	2.28	0.48
1:M:423:ASN:HB3	1:M:426:GLN:OE1	2.14	0.48
1:O:105:GLU:HB2	1:O:217:CYS:HB2	1.95	0.48
1:P:105:GLU:HB3	1:P:215:PHE:O	2.13	0.48
1:R:423:ASN:HB3	1:R:426:GLN:OE1	2.14	0.48
1:S:217:CYS:SG	1:S:236:MET:HE2	2.53	0.48
1:S:363:THR:HG22	1:S:364:GLN:N	2.27	0.48
1:V:217:CYS:SG	1:V:236:MET:HE2	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:123:PHE:O	1:W:462:TYR:OH	2.16	0.48
1:W:423:ASN:HB3	1:W:426:GLN:OE1	2.14	0.48
1:Y:543:ASN:HD22	1:Z:565:LEU:HD21	1.77	0.48
1:1:105:GLU:HB2	1:1:217:CYS:HB2	1.95	0.48
1:1:279:THR:OG1	1:1:584:ARG:HD3	2.14	0.48
1:2:105:GLU:HB2	1:2:217:CYS:HB2	1.95	0.48
1:3:105:GLU:HB3	1:3:215:PHE:O	2.13	0.48
1:a:217:CYS:SG	1:a:236:MET:HE2	2.53	0.48
1:d:363:THR:HG22	1:d:364:GLN:N	2.28	0.48
1:e:384:GLN:O	1:e:573:THR:OG1	2.27	0.48
1:g:278:LEU:C	1:g:580:ARG:HG2	2.38	0.48
1:i:423:ASN:HB3	1:i:426:GLN:OE1	2.13	0.48
1:j:184:ASN:ND2	1:j:491:ASN:OD1	2.40	0.48
1:n:217:CYS:SG	1:n:236:MET:HE2	2.53	0.48
1:p:217:CYS:SG	1:p:236:MET:HE2	2.53	0.48
1:q:105:GLU:HB2	1:q:217:CYS:HB2	1.95	0.48
1:r:105:GLU:HB3	1:r:215:PHE:O	2.13	0.48
1:u:423:ASN:HB3	1:u:426:GLN:OE1	2.14	0.48
1:x:217:CYS:SG	1:x:236:MET:HE2	2.53	0.48
1:x:423:ASN:HB3	1:x:426:GLN:OE1	2.14	0.48
1:y:105:GLU:HB3	1:y:215:PHE:O	2.13	0.48
1:y:279:THR:OG1	1:y:584:ARG:HD3	2.14	0.48
1:z:278:LEU:C	1:z:580:ARG:HG2	2.38	0.48
1:7:423:ASN:HB3	1:7:426:GLN:OE1	2.14	0.48
1:8:105:GLU:HB2	1:8:217:CYS:HB2	1.95	0.48
1:A:386:TRP:HH2	1:E:510:PRO:O	1.97	0.48
1:D:317:THR:HG21	1:D:322[B]:ARG:HH21	1.78	0.48
1:F:217:CYS:SG	1:F:236:MET:HE2	2.53	0.48
1:F:384:GLN:O	1:F:573:THR:OG1	2.27	0.48
1:H:347:THR:HG21	1:Y:410:ASN:CB	2.44	0.48
1:H:363:THR:HG22	1:H:364:GLN:N	2.28	0.48
1:H:423:ASN:HB3	1:H:426:GLN:OE1	2.14	0.48
1:K:219:ARG:HH21	1:K:221:LEU:HD13	1.78	0.48
1:O:510:PRO:O	1:4:386:TRP:HH2	1.97	0.48
1:Q:105:GLU:HB3	1:Q:215:PHE:O	2.13	0.48
1:T:386:TRP:HH2	1:U:510:PRO:O	1.97	0.48
1:T:423:ASN:HB3	1:T:426:GLN:OE1	2.14	0.48
1:V:100:MET:HA	1:X:326:THR:HG21	1.96	0.48
1:W:217:CYS:SG	1:W:236:MET:HE2	2.53	0.48
1:W:326:THR:HG21	1:Y:100:MET:HA	1.95	0.48
1:Z:363:THR:HG22	1:Z:364:GLN:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:278:LEU:C	1:2:580:ARG:HG2	2.38	0.48
1:3:105:GLU:HB2	1:3:217:CYS:HB2	1.95	0.48
1:4:326:THR:HG21	1:f:100:MET:HA	1.96	0.48
1:d:423:ASN:HB3	1:d:426:GLN:OE1	2.13	0.48
1:f:219:ARG:HH21	1:f:221:LEU:HD13	1.78	0.48
1:h:105:GLU:HB2	1:h:217:CYS:HB2	1.95	0.48
1:p:423:ASN:HB3	1:p:426:GLN:OE1	2.13	0.48
1:u:278:LEU:C	1:u:580:ARG:HG2	2.38	0.48
1:v:217:CYS:SG	1:v:236:MET:HE2	2.53	0.48
1:z:423:ASN:HB3	1:z:426:GLN:OE1	2.14	0.48
1:A:384:GLN:O	1:A:573:THR:OG1	2.27	0.48
1:F:423:ASN:HB3	1:F:426:GLN:OE1	2.14	0.48
1:G:423:ASN:HB3	1:G:426:GLN:OE1	2.13	0.48
1:J:88:ASN:O	1:J:92:THR:OG1	2.32	0.48
1:K:105:GLU:HB3	1:K:215:PHE:O	2.13	0.48
1:O:105:GLU:HB3	1:O:215:PHE:O	2.13	0.48
1:Q:423:ASN:HB3	1:Q:426:GLN:OE1	2.13	0.48
1:R:217:CYS:SG	1:R:236:MET:HE2	2.53	0.48
1:S:386:TRP:HH2	1:4:510:PRO:O	1.97	0.48
1:T:217:CYS:SG	1:T:236:MET:HE2	2.53	0.48
1:U:105:GLU:HB3	1:U:215:PHE:O	2.13	0.48
1:Z:100:MET:HA	1:w:326:THR:HG21	1.96	0.48
1:3:278:LEU:C	1:3:580:ARG:HG2	2.38	0.48
1:3:320:GLN:HG2	1:i:368:HIS:CD2	2.48	0.48
1:6:423:ASN:HB3	1:6:426:GLN:OE1	2.13	0.48
1:a:363:THR:HG22	1:a:364:GLN:N	2.27	0.48
1:a:368:HIS:CD2	1:b:320:GLN:HG2	2.48	0.48
1:e:217:CYS:SG	1:e:236:MET:HE2	2.53	0.48
1:f:363:THR:HG22	1:f:364:GLN:N	2.27	0.48
1:h:423:ASN:HB3	1:h:426:GLN:OE1	2.13	0.48
1:l:279:THR:OG1	1:l:584:ARG:HD3	2.14	0.48
1:n:100:MET:HA	1:p:326:THR:HG21	1.96	0.48
1:n:510:PRO:O	1:s:386:TRP:HH2	1.97	0.48
1:o:423:ASN:HB3	1:o:426:GLN:OE1	2.14	0.48
1:p:384:GLN:O	1:p:573:THR:OG1	2.27	0.48
1:q:423:ASN:HB3	1:q:426:GLN:OE1	2.13	0.48
1:r:326:THR:HG21	1:s:100:MET:HA	1.96	0.48
1:s:105:GLU:HB2	1:s:217:CYS:HB2	1.95	0.48
1:s:384:GLN:O	1:s:573:THR:OG1	2.27	0.48
1:t:100:MET:HA	1:v:326:THR:HG21	1.95	0.48
1:t:105:GLU:HB3	1:t:215:PHE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:217:CYS:SG	1:u:236:MET:HE2	2.53	0.48
1:8:105:GLU:HB3	1:8:215:PHE:O	2.13	0.48
1:B:510:PRO:O	1:C:386:TRP:HH2	1.97	0.48
1:J:279:THR:OG1	1:J:584:ARG:HD3	2.14	0.48
1:J:558:TYR:OH	1:J:576:PRO:O	2.20	0.48
1:K:100:MET:HA	1:8:326:THR:HG21	1.95	0.48
1:L:386:TRP:HH2	1:2:510:PRO:O	1.97	0.48
1:M:386:TRP:HH2	1:N:510:PRO:O	1.97	0.48
1:R:105:GLU:HB2	1:R:217:CYS:HB2	1.95	0.48
1:R:197:THR:O	1:R:382:HIS:NE2	2.40	0.48
1:V:363:THR:HG22	1:V:364:GLN:N	2.27	0.48
1:1:423:ASN:HB3	1:1:426:GLN:OE1	2.13	0.48
1:2:279:THR:OG1	1:2:584:ARG:HD3	2.14	0.48
1:3:326:THR:HG21	1:i:100:MET:HA	1.96	0.48
1:3:510:PRO:O	1:m:386:TRP:HH2	1.97	0.48
1:4:105:GLU:HB2	1:4:217:CYS:HB2	1.95	0.48
1:5:568:ALA:HB3	1:6:301:ASP:HA	1.96	0.48
1:a:100:MET:HA	1:b:326:THR:HG21	1.96	0.48
1:d:278:LEU:C	1:d:580:ARG:HG2	2.38	0.48
1:g:326:THR:HG21	1:h:100:MET:HA	1.96	0.48
1:g:327:GLU:OE2	1:h:214:TYR:OH	2.22	0.48
1:i:386:TRP:HH2	1:7:510:PRO:O	1.97	0.48
1:l:88:ASN:O	1:l:92:THR:OG1	2.32	0.48
1:l:384:GLN:O	1:l:573:THR:OG1	2.27	0.48
1:p:219:ARG:HH21	1:p:221:LEU:HD13	1.77	0.48
1:q:320:GLN:HG2	1:r:368:HIS:CD2	2.48	0.48
1:q:326:THR:HG21	1:r:100:MET:HA	1.95	0.48
1:t:510:PRO:O	1:x:386:TRP:HH2	1.97	0.48
1:u:197:THR:O	1:u:382:HIS:NE2	2.40	0.48
1:B:219:ARG:HH21	1:B:221:LEU:HD13	1.78	0.48
1:G:363:THR:HG22	1:G:364:GLN:N	2.27	0.48
1:N:386:TRP:HH2	1:g:510:PRO:O	1.97	0.48
1:O:279:THR:OG1	1:O:584:ARG:HD3	2.14	0.48
1:P:386:TRP:HH2	1:Q:510:PRO:O	1.97	0.48
1:S:88:ASN:O	1:S:92:THR:OG1	2.32	0.48
1:Z:88:ASN:O	1:Z:92:THR:OG1	2.32	0.48
1:1:105:GLU:HB3	1:1:215:PHE:O	2.13	0.48
1:3:279:THR:OG1	1:3:584:ARG:HD3	2.14	0.48
1:4:279:THR:OG1	1:4:584:ARG:HD3	2.14	0.48
1:5:301:ASP:HA	1:6:568:ALA:HB3	1.96	0.48
1:5:423:ASN:HB3	1:5:426:GLN:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:326:THR:HG21	1:b:100:MET:HA	1.96	0.48
1:6:510:PRO:O	1:t:386:TRP:HH2	1.97	0.48
1:a:279:THR:OG1	1:a:584:ARG:HD3	2.14	0.48
1:e:123:PHE:O	1:e:462:TYR:OH	2.16	0.48
1:f:88:ASN:O	1:f:92:THR:OG1	2.32	0.48
1:g:105:GLU:HB3	1:g:215:PHE:O	2.13	0.48
1:j:386:TRP:HH2	1:k:510:PRO:O	1.97	0.48
1:j:423:ASN:HB3	1:j:426:GLN:OE1	2.13	0.48
1:k:219:ARG:HH21	1:k:221:LEU:HD13	1.78	0.48
1:o:105:GLU:HB3	1:o:215:PHE:O	2.13	0.48
1:q:105:GLU:HB3	1:q:215:PHE:O	2.13	0.48
1:q:363:THR:HG22	1:q:364:GLN:N	2.28	0.48
1:s:219:ARG:HH21	1:s:221:LEU:HD13	1.77	0.48
1:t:317:THR:HG21	1:t:322[B]:ARG:HH21	1.78	0.48
1:u:320:GLN:HG2	1:v:368:HIS:CD2	2.47	0.48
1:v:88:ASN:O	1:v:92:THR:OG1	2.32	0.48
1:w:105:GLU:HB2	1:w:217:CYS:HB2	1.95	0.48
1:w:279:THR:OG1	1:w:584:ARG:HD3	2.14	0.48
1:y:100:MET:HA	1:7:326:THR:HG21	1.95	0.48
1:A:88:ASN:O	1:A:92:THR:OG1	2.32	0.48
1:B:423:ASN:HB3	1:B:426:GLN:OE1	2.13	0.48
1:C:105:GLU:HB3	1:C:215:PHE:O	2.13	0.48
1:C:423:ASN:HB3	1:C:426:GLN:OE1	2.13	0.48
1:G:105:GLU:HB3	1:G:215:PHE:O	2.13	0.48
1:G:327:GLU:OE2	1:I:214:TYR:OH	2.21	0.48
1:H:278:LEU:C	1:H:580:ARG:HG2	2.38	0.48
1:J:384:GLN:O	1:J:573:THR:OG1	2.27	0.48
1:M:100:MET:HA	1:2:326:THR:HG21	1.96	0.48
1:M:279:THR:OG1	1:M:584:ARG:HD3	2.14	0.48
1:O:326:THR:HG21	1:g:100:MET:HA	1.95	0.48
1:P:384:GLN:O	1:P:573:THR:OG1	2.27	0.48
1:S:326:THR:HG21	1:U:100:MET:HA	1.96	0.48
1:T:317:THR:HG21	1:T:322[B]:ARG:HH21	1.78	0.48
1:V:368:HIS:CD2	1:X:320:GLN:HG2	2.48	0.48
1:X:119:TRP:HB2	1:X:462:TYR:O	2.14	0.48
1:4:119:TRP:HB2	1:4:462:TYR:O	2.14	0.48
1:4:184:ASN:ND2	1:4:491:ASN:OD1	2.40	0.48
1:e:510:PRO:O	1:q:386:TRP:HH2	1.96	0.48
1:h:105:GLU:HB3	1:h:215:PHE:O	2.13	0.48
1:i:279:THR:OG1	1:i:584:ARG:HD3	2.14	0.48
1:j:105:GLU:HB3	1:j:215:PHE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:423:ASN:HB3	1:k:426:GLN:OE1	2.13	0.48
1:o:510:PRO:O	1:y:386:TRP:HH2	1.97	0.48
1:s:88:ASN:O	1:s:92:THR:OG1	2.32	0.48
1:u:105:GLU:HB2	1:u:217:CYS:HB2	1.95	0.48
1:v:386:TRP:HH2	1:w:510:PRO:O	1.97	0.48
1:w:184:ASN:ND2	1:w:491:ASN:OD1	2.40	0.48
1:y:384:GLN:O	1:y:573:THR:OG1	2.27	0.48
1:8:279:THR:OG1	1:8:584:ARG:HD3	2.14	0.48
1:A:219:ARG:HH21	1:A:221:LEU:HD13	1.78	0.47
1:F:219:ARG:HH21	1:F:221:LEU:HD13	1.78	0.47
1:H:88:ASN:O	1:H:92:THR:OG1	2.32	0.47
1:I:105:GLU:HB2	1:I:217:CYS:HB2	1.95	0.47
1:K:288:LEU:O	1:K:332:ARG:NH1	2.47	0.47
1:R:320:GLN:HG2	1:S:368:HIS:CD2	2.48	0.47
1:U:386:TRP:HH2	1:5:510:PRO:O	1.97	0.47
1:V:251:ASN:HD21	1:W:202:PRO:HG2	1.79	0.47
1:V:279:THR:OG1	1:V:584:ARG:HD3	2.14	0.47
1:X:510:PRO:O	1:6:386:TRP:HH2	1.96	0.47
1:Y:119:TRP:HB2	1:Y:462:TYR:O	2.14	0.47
1:Y:301:ASP:HA	1:Z:568:ALA:HB3	1.96	0.47
1:5:105:GLU:HB3	1:5:215:PHE:O	2.13	0.47
1:5:386:TRP:HH2	1:b:510:PRO:O	1.97	0.47
1:6:119:TRP:HB2	1:6:462:TYR:O	2.14	0.47
1:a:119:TRP:HB2	1:a:462:TYR:O	2.14	0.47
1:b:119:TRP:HB2	1:b:462:TYR:O	2.14	0.47
1:c:119:TRP:HB2	1:c:462:TYR:O	2.14	0.47
1:d:88:ASN:O	1:d:92:THR:OG1	2.32	0.47
1:d:386:TRP:HH2	1:r:510:PRO:O	1.97	0.47
1:i:219:ARG:HH21	1:i:221:LEU:HD13	1.78	0.47
1:i:288:LEU:O	1:i:332:ARG:NH1	2.48	0.47
1:l:105:GLU:HB3	1:l:215:PHE:O	2.13	0.47
1:n:279:THR:OG1	1:n:584:ARG:HD3	2.14	0.47
1:w:119:TRP:HB2	1:w:462:TYR:O	2.14	0.47
1:8:88:ASN:O	1:8:92:THR:OG1	2.32	0.47
1:A:100:MET:HA	1:I:326:THR:HG21	1.96	0.47
1:B:85:ARG:HB3	1:B:105:GLU:OE1	2.15	0.47
1:E:88:ASN:O	1:E:92:THR:OG1	2.32	0.47
1:E:279:THR:OG1	1:E:584:ARG:HD3	2.14	0.47
1:G:279:THR:OG1	1:G:584:ARG:HD3	2.14	0.47
1:G:301:ASP:HA	1:H:568:ALA:HB3	1.95	0.47
1:H:119:TRP:HB2	1:H:462:TYR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:386:TRP:HH2	1:I:510:PRO:O	1.97	0.47
1:H:510:PRO:O	1:Z:386:TRP:HH2	1.97	0.47
1:M:288:LEU:O	1:M:332:ARG:NH1	2.48	0.47
1:N:87:HIS:CD2	1:N:219:ARG:HH12	2.33	0.47
1:N:326:THR:HG21	1:P:100:MET:HA	1.95	0.47
1:O:88:ASN:O	1:O:92:THR:OG1	2.32	0.47
1:P:105:GLU:HB2	1:P:217:CYS:HB2	1.95	0.47
1:P:288:LEU:O	1:P:332:ARG:NH1	2.48	0.47
1:T:510:PRO:O	1:c:386:TRP:HH2	1.97	0.47
1:U:88:ASN:O	1:U:92:THR:OG1	2.32	0.47
1:V:288:LEU:O	1:V:332:ARG:NH1	2.47	0.47
1:X:100:MET:HA	1:5:326:THR:HG21	1.96	0.47
1:Y:279:THR:OG1	1:Y:584:ARG:HD3	2.14	0.47
1:Y:288:LEU:O	1:Y:332:ARG:NH1	2.48	0.47
1:Z:288:LEU:O	1:Z:332:ARG:NH1	2.48	0.47
1:5:119:TRP:HB2	1:5:462:TYR:O	2.14	0.47
1:6:105:GLU:HB3	1:6:215:PHE:O	2.13	0.47
1:a:288:LEU:O	1:a:332:ARG:NH1	2.47	0.47
1:b:384:GLN:O	1:b:573:THR:OG1	2.27	0.47
1:c:105:GLU:HB2	1:c:217:CYS:HB2	1.95	0.47
1:c:288:LEU:O	1:c:332:ARG:NH1	2.48	0.47
1:d:119:TRP:HB2	1:d:462:TYR:O	2.14	0.47
1:f:288:LEU:O	1:f:332:ARG:NH1	2.48	0.47
1:g:288:LEU:O	1:g:332:ARG:NH1	2.48	0.47
1:h:217:CYS:SG	1:h:236:MET:HE2	2.53	0.47
1:k:85:ARG:HB3	1:k:105:GLU:OE1	2.15	0.47
1:n:88:ASN:O	1:n:92:THR:OG1	2.32	0.47
1:n:423:ASN:HB3	1:n:426:GLN:OE1	2.13	0.47
1:p:87:HIS:CD2	1:p:219:ARG:HH12	2.33	0.47
1:q:219:ARG:HH21	1:q:221:LEU:HD13	1.78	0.47
1:r:105:GLU:HB2	1:r:217:CYS:HB2	1.95	0.47
1:s:85:ARG:HB3	1:s:105:GLU:OE1	2.14	0.47
1:y:119:TRP:HB2	1:y:462:TYR:O	2.14	0.47
1:7:87:HIS:CD2	1:7:219:ARG:HH12	2.33	0.47
1:8:423:ASN:HB3	1:8:426:GLN:OE1	2.13	0.47
1:A:85:ARG:HB3	1:A:105:GLU:OE1	2.15	0.47
1:E:423:ASN:HB3	1:E:426:GLN:OE1	2.14	0.47
1:F:386:TRP:HH2	1:G:510:PRO:O	1.97	0.47
1:G:85:ARG:HB3	1:G:105:GLU:OE1	2.15	0.47
1:G:219:ARG:HH21	1:G:221:LEU:HD13	1.78	0.47
1:J:105:GLU:HB3	1:J:215:PHE:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:219:ARG:HH21	1:M:221:LEU:HD13	1.78	0.47
1:N:119:TRP:HB2	1:N:462:TYR:O	2.14	0.47
1:Q:87:HIS:CD2	1:Q:219:ARG:HH12	2.33	0.47
1:S:568:ALA:HB3	1:T:301:ASP:HA	1.97	0.47
1:T:100:MET:HA	1:f:326:THR:HG21	1.95	0.47
1:T:105:GLU:HB2	1:T:217:CYS:HB2	1.95	0.47
1:V:85:ARG:HB3	1:V:105:GLU:OE1	2.15	0.47
1:V:119:TRP:HB2	1:V:462:TYR:O	2.14	0.47
1:W:85:ARG:HB3	1:W:105:GLU:OE1	2.15	0.47
1:W:279:THR:OG1	1:W:584:ARG:HD3	2.14	0.47
1:W:320:GLN:HG2	1:Y:368:HIS:CD2	2.49	0.47
1:Y:85:ARG:HB3	1:Y:105:GLU:OE1	2.15	0.47
1:Y:105:GLU:HB2	1:Y:217:CYS:HB2	1.95	0.47
1:1:217:CYS:SG	1:1:236:MET:HE2	2.53	0.47
1:2:197:THR:O	1:2:382:HIS:NE2	2.40	0.47
1:2:301:ASP:HA	1:3:568:ALA:HB3	1.96	0.47
1:3:87:HIS:CD2	1:3:219:ARG:HH12	2.33	0.47
1:4:277:ARG:HB3	1:4:584:ARG:HH12	1.80	0.47
1:4:568:ALA:HB3	1:h:301:ASP:HA	1.96	0.47
1:5:279:THR:OG1	1:5:584:ARG:HD3	2.14	0.47
1:a:85:ARG:HB3	1:a:105:GLU:OE1	2.15	0.47
1:a:219:ARG:HH21	1:a:221:LEU:HD13	1.78	0.47
1:c:85:ARG:HB3	1:c:105:GLU:OE1	2.15	0.47
1:c:279:THR:OG1	1:c:584:ARG:HD3	2.14	0.47
1:f:85:ARG:HB3	1:f:105:GLU:OE1	2.14	0.47
1:i:317:THR:HG21	1:i:322[B]:ARG:HH21	1.79	0.47
1:j:85:ARG:HB3	1:j:105:GLU:OE1	2.15	0.47
1:k:386:TRP:HH2	1:s:510:PRO:O	1.97	0.47
1:l:558:TYR:OH	1:l:576:PRO:O	2.20	0.47
1:o:87:HIS:CD2	1:o:219:ARG:HH12	2.33	0.47
1:o:288:LEU:O	1:o:332:ARG:NH1	2.47	0.47
1:q:85:ARG:HB3	1:q:105:GLU:OE1	2.15	0.47
1:q:279:THR:OG1	1:q:584:ARG:HD3	2.14	0.47
1:s:288:LEU:O	1:s:332:ARG:NH1	2.47	0.47
1:w:277:ARG:HB3	1:w:584:ARG:HH12	1.80	0.47
1:y:105:GLU:HB2	1:y:217:CYS:HB2	1.95	0.47
1:y:288:LEU:O	1:y:332:ARG:NH1	2.48	0.47
1:z:85:ARG:HB3	1:z:105:GLU:OE1	2.15	0.47
1:7:119:TRP:HB2	1:7:462:TYR:O	2.14	0.47
1:A:288:LEU:O	1:A:332:ARG:NH1	2.47	0.47
1:A:510:PRO:O	1:B:386:TRP:HH2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:85:ARG:HB3	1:C:105:GLU:OE1	2.15	0.47
1:C:100:MET:HA	1:M:326:THR:HG21	1.96	0.47
1:C:301:ASP:HA	1:L:568:ALA:HB3	1.97	0.47
1:D:85:ARG:HB3	1:D:105:GLU:OE1	2.15	0.47
1:F:87:HIS:CD2	1:F:219:ARG:HH12	2.33	0.47
1:H:277:ARG:HB3	1:H:584:ARG:HH12	1.80	0.47
1:J:326:THR:HG21	1:L:100:MET:HA	1.95	0.47
1:K:85:ARG:HB3	1:K:105:GLU:OE1	2.15	0.47
1:M:85:ARG:HB3	1:M:105:GLU:OE1	2.15	0.47
1:N:277:ARG:HB3	1:N:584:ARG:HH12	1.80	0.47
1:O:423:ASN:HB3	1:O:426:GLN:OE1	2.14	0.47
1:P:119:TRP:HB2	1:P:462:TYR:O	2.14	0.47
1:P:423:ASN:HB3	1:P:426:GLN:OE1	2.14	0.47
1:Q:288:LEU:O	1:Q:332:ARG:NH1	2.48	0.47
1:U:277:ARG:HB3	1:U:584:ARG:HH12	1.80	0.47
1:U:423:ASN:HB3	1:U:426:GLN:OE1	2.14	0.47
1:V:219:ARG:HH21	1:V:221:LEU:HD13	1.78	0.47
1:X:105:GLU:HB2	1:X:217:CYS:HB2	1.95	0.47
1:Z:85:ARG:HB3	1:Z:105:GLU:OE1	2.15	0.47
1:1:288:LEU:O	1:1:332:ARG:NH1	2.48	0.47
1:2:87:HIS:CD2	1:2:219:ARG:HH12	2.33	0.47
1:2:568:ALA:HB3	1:3:301:ASP:HA	1.96	0.47
1:4:288:LEU:O	1:4:332:ARG:NH1	2.48	0.47
1:5:105:GLU:HB2	1:5:217:CYS:HB2	1.95	0.47
1:a:510:PRO:O	1:e:386:TRP:HH2	1.98	0.47
1:e:85:ARG:HB3	1:e:105:GLU:OE1	2.15	0.47
1:e:288:LEU:O	1:e:332:ARG:NH1	2.48	0.47
1:g:85:ARG:HB3	1:g:105:GLU:OE1	2.15	0.47
1:g:109:THR:OG1	1:g:211:TYR:O	2.24	0.47
1:i:85:ARG:HB3	1:i:105:GLU:OE1	2.15	0.47
1:i:326:THR:HG21	1:j:100:MET:HA	1.96	0.47
1:j:301:ASP:HA	1:m:568:ALA:HB3	1.97	0.47
1:o:119:TRP:HB2	1:o:462:TYR:O	2.14	0.47
1:p:119:TRP:HB2	1:p:462:TYR:O	2.14	0.47
1:p:277:ARG:HB3	1:p:584:ARG:HH12	1.80	0.47
1:p:386:TRP:HH2	1:q:510:PRO:O	1.97	0.47
1:t:277:ARG:HB3	1:t:584:ARG:HH12	1.80	0.47
1:x:105:GLU:HB2	1:x:217:CYS:HB2	1.95	0.47
1:z:219:ARG:HH21	1:z:221:LEU:HD13	1.78	0.47
1:z:320:GLN:HG2	1:7:368:HIS:CD2	2.49	0.47
1:7:153:LYS:HG2	1:7:170:ASN:HD22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:317:THR:HG21	1:A:322[B]:ARG:HH21	1.79	0.47
1:B:88:ASN:O	1:B:92:THR:OG1	2.32	0.47
1:D:219:ARG:HH21	1:D:221:LEU:HD13	1.78	0.47
1:D:345:PHE:CE1	1:D:354:LYS:HB2	2.50	0.47
1:E:85:ARG:HB3	1:E:105:GLU:OE1	2.15	0.47
1:F:119:TRP:HB2	1:F:462:TYR:O	2.14	0.47
1:F:277:ARG:HB3	1:F:584:ARG:HH12	1.80	0.47
1:G:288:LEU:O	1:G:332:ARG:NH1	2.48	0.47
1:G:326:THR:HG21	1:I:100:MET:HA	1.96	0.47
1:J:119:TRP:HB2	1:J:462:TYR:O	2.14	0.47
1:K:109:THR:OG1	1:K:211:TYR:O	2.24	0.47
1:K:277:ARG:HB3	1:K:584:ARG:HH12	1.80	0.47
1:L:87:HIS:CD2	1:L:219:ARG:HH12	2.33	0.47
1:N:153:LYS:HG2	1:N:170:ASN:HD22	1.80	0.47
1:P:87:HIS:CD2	1:P:219:ARG:HH12	2.33	0.47
1:Q:119:TRP:HB2	1:Q:462:TYR:O	2.14	0.47
1:R:87:HIS:CD2	1:R:219:ARG:HH12	2.33	0.47
1:S:87:HIS:CD2	1:S:219:ARG:HH12	2.33	0.47
1:S:153:LYS:HG2	1:S:170:ASN:HD22	1.80	0.47
1:V:326:THR:HG21	1:5:100:MET:HA	1.96	0.47
1:W:288:LEU:O	1:W:332:ARG:NH1	2.48	0.47
1:Y:277:ARG:HD3	1:Y:584:ARG:NH1	2.30	0.47
1:Z:510:PRO:O	1:1:386:TRP:HH2	1.97	0.47
1:1:119:TRP:HB2	1:1:462:TYR:O	2.14	0.47
1:2:288:LEU:O	1:2:332:ARG:NH1	2.48	0.47
1:3:197:THR:O	1:3:382:HIS:NE2	2.40	0.47
1:6:85:ARG:HB3	1:6:105:GLU:OE1	2.15	0.47
1:6:105:GLU:HB2	1:6:217:CYS:HB2	1.95	0.47
1:6:279:THR:OG1	1:6:584:ARG:HD3	2.14	0.47
1:6:288:LEU:O	1:6:332:ARG:NH1	2.48	0.47
1:b:105:GLU:HB2	1:b:217:CYS:HB2	1.95	0.47
1:c:277:ARG:HD3	1:c:584:ARG:NH1	2.30	0.47
1:d:277:ARG:HB3	1:d:584:ARG:HH12	1.80	0.47
1:d:288:LEU:O	1:d:332:ARG:NH1	2.48	0.47
1:e:279:THR:OG1	1:e:584:ARG:HD3	2.14	0.47
1:g:277:ARG:HB3	1:g:584:ARG:HH12	1.80	0.47
1:h:277:ARG:HD3	1:h:584:ARG:NH1	2.30	0.47
1:h:288:LEU:O	1:h:332:ARG:NH1	2.48	0.47
1:k:88:ASN:O	1:k:92:THR:OG1	2.32	0.47
1:l:326:THR:HG21	1:m:100:MET:HA	1.95	0.47
1:n:119:TRP:HB2	1:n:462:TYR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:568:ALA:HB3	1:s:301:ASP:HA	1.96	0.47
1:r:87:HIS:CD2	1:r:219:ARG:HH12	2.33	0.47
1:u:87:HIS:CD2	1:u:219:ARG:HH12	2.33	0.47
1:v:568:ALA:HB3	1:x:301:ASP:HA	1.97	0.47
1:w:288:LEU:O	1:w:332:ARG:NH1	2.48	0.47
1:7:277:ARG:HB3	1:7:584:ARG:HH12	1.80	0.47
1:7:288:LEU:O	1:7:332:ARG:NH1	2.48	0.47
1:A:277:ARG:HD3	1:A:584:ARG:NH1	2.30	0.47
1:D:320:GLN:HG2	1:N:368:HIS:CD2	2.49	0.47
1:D:510:PRO:O	1:E:386:TRP:HH2	1.96	0.47
1:E:119:TRP:HB2	1:E:462:TYR:O	2.14	0.47
1:F:88:ASN:O	1:F:92:THR:OG1	2.32	0.47
1:G:87:HIS:CD2	1:G:219:ARG:HH12	2.33	0.47
1:H:85:ARG:HB3	1:H:105:GLU:OE1	2.15	0.47
1:H:288:LEU:O	1:H:332:ARG:NH1	2.48	0.47
1:H:290:GLN:HE21	1:W:212:ARG:CZ	2.27	0.47
1:I:87:HIS:CD2	1:I:219:ARG:HH12	2.33	0.47
1:I:386:TRP:HH2	1:J:510:PRO:O	1.97	0.47
1:K:320:GLN:HG2	1:1:368:HIS:CD2	2.49	0.47
1:L:153:LYS:HG2	1:L:170:ASN:HD22	1.80	0.47
1:M:277:ARG:HD3	1:M:584:ARG:NH1	2.30	0.47
1:N:88:ASN:O	1:N:92:THR:OG1	2.32	0.47
1:O:386:TRP:HH2	1:P:510:PRO:O	1.97	0.47
1:R:288:LEU:O	1:R:332:ARG:NH1	2.48	0.47
1:S:119:TRP:HB2	1:S:462:TYR:O	2.14	0.47
1:S:279:THR:OG1	1:S:584:ARG:HD3	2.14	0.47
1:1:277:ARG:HD3	1:1:584:ARG:NH1	2.30	0.47
1:3:288:LEU:O	1:3:332:ARG:NH1	2.48	0.47
1:5:288:LEU:O	1:5:332:ARG:NH1	2.48	0.47
1:6:277:ARG:HB3	1:6:584:ARG:HH12	1.80	0.47
1:6:345:PHE:CE1	1:6:354:LYS:HB2	2.50	0.47
1:b:386:TRP:HH2	1:c:510:PRO:O	1.97	0.47
1:c:423:ASN:HB3	1:c:426:GLN:OE1	2.14	0.47
1:d:510:PRO:O	1:f:386:TRP:HH2	1.97	0.47
1:e:88:ASN:O	1:e:92:THR:OG1	2.32	0.47
1:g:386:TRP:HH2	1:m:510:PRO:O	1.97	0.47
1:h:119:TRP:HB2	1:h:462:TYR:O	2.14	0.47
1:l:119:TRP:HB2	1:l:462:TYR:O	2.14	0.47
1:m:88:ASN:O	1:m:92:THR:OG1	2.32	0.47
1:m:153:LYS:HG2	1:m:170:ASN:HD22	1.80	0.47
1:p:88:ASN:O	1:p:92:THR:OG1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:288:LEU:O	1:q:332:ARG:NH1	2.47	0.47
1:r:277:ARG:HB3	1:r:584:ARG:HH12	1.80	0.47
1:s:277:ARG:HD3	1:s:584:ARG:NH1	2.30	0.47
1:t:423:ASN:HB3	1:t:426:GLN:OE1	2.14	0.47
1:u:279:THR:OG1	1:u:584:ARG:HD3	2.14	0.47
1:u:288:LEU:O	1:u:332:ARG:NH1	2.48	0.47
1:v:87:HIS:CD2	1:v:219:ARG:HH12	2.33	0.47
1:v:153:LYS:HG2	1:v:170:ASN:HD22	1.80	0.47
1:y:87:HIS:CD2	1:y:219:ARG:HH12	2.33	0.47
1:y:423:ASN:HB3	1:y:426:GLN:OE1	2.14	0.47
1:y:510:PRO:O	1:8:386:TRP:HH2	1.97	0.47
1:z:345:PHE:CE1	1:z:354:LYS:HB2	2.50	0.47
1:7:88:ASN:O	1:7:92:THR:OG1	2.32	0.47
1:A:119:TRP:HB2	1:A:462:TYR:O	2.14	0.47
1:A:277:ARG:HB3	1:A:584:ARG:HH12	1.80	0.47
1:A:301:ASP:HA	1:F:568:ALA:HB3	1.97	0.47
1:A:326:THR:HG21	1:G:100:MET:HA	1.96	0.47
1:A:345:PHE:CE1	1:A:354:LYS:HB2	2.50	0.47
1:B:277:ARG:HB3	1:B:584:ARG:HH12	1.80	0.47
1:B:568:ALA:HB3	1:I:301:ASP:HA	1.96	0.47
1:D:279:THR:OG1	1:D:584:ARG:HD3	2.14	0.47
1:E:277:ARG:HB3	1:E:584:ARG:HH12	1.80	0.47
1:F:288:LEU:O	1:F:332:ARG:NH1	2.48	0.47
1:G:277:ARG:HD3	1:G:584:ARG:NH1	2.30	0.47
1:H:153:LYS:HG2	1:H:170:ASN:HD22	1.80	0.47
1:H:259:ARG:HH12	1:Z:260:THR:HG22	1.80	0.47
1:H:320:GLN:HG2	1:W:368:HIS:CD2	2.50	0.47
1:I:277:ARG:HB3	1:I:584:ARG:HH12	1.80	0.47
1:J:277:ARG:HD3	1:J:584:ARG:NH1	2.30	0.47
1:J:345:PHE:CE1	1:J:354:LYS:HB2	2.50	0.47
1:L:85:ARG:HB3	1:L:105:GLU:OE1	2.15	0.47
1:L:88:ASN:O	1:L:92:THR:OG1	2.32	0.47
1:M:88:ASN:O	1:M:92:THR:OG1	2.32	0.47
1:M:119:TRP:HB2	1:M:462:TYR:O	2.14	0.47
1:M:510:PRO:O	1:3:386:TRP:HH2	1.97	0.47
1:N:288:LEU:O	1:N:332:ARG:NH1	2.48	0.47
1:O:119:TRP:HB2	1:O:462:TYR:O	2.14	0.47
1:P:277:ARG:HB3	1:P:584:ARG:HH12	1.80	0.47
1:Q:197:THR:O	1:Q:382:HIS:NE2	2.40	0.47
1:Q:277:ARG:HD3	1:Q:584:ARG:NH1	2.30	0.47
1:Q:277:ARG:HB3	1:Q:584:ARG:HH12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:153:LYS:HG2	1:R:170:ASN:HD22	1.80	0.47
1:R:279:THR:OG1	1:R:584:ARG:HD3	2.14	0.47
1:R:510:PRO:O	1:V:386:TRP:HH2	1.97	0.47
1:S:85:ARG:HB3	1:S:105:GLU:OE1	2.15	0.47
1:S:301:ASP:HA	1:T:568:ALA:HB3	1.97	0.47
1:S:384:GLN:O	1:S:573:THR:OG1	2.27	0.47
1:T:85:ARG:HB3	1:T:105:GLU:OE1	2.15	0.47
1:U:105:GLU:HB2	1:U:217:CYS:HB2	1.95	0.47
1:U:288:LEU:O	1:U:332:ARG:NH1	2.48	0.47
1:V:317:THR:HG21	1:V:322[B]:ARG:HH21	1.79	0.47
1:V:510:PRO:O	1:W:386:TRP:HH2	1.98	0.47
1:W:88:ASN:O	1:W:92:THR:OG1	2.32	0.47
1:X:277:ARG:HB3	1:X:584:ARG:HH12	1.80	0.47
1:X:384:GLN:O	1:X:573:THR:OG1	2.27	0.47
1:Y:87:HIS:CD2	1:Y:219:ARG:HH12	2.33	0.47
1:Y:423:ASN:HB3	1:Y:426:GLN:OE1	2.14	0.47
1:Z:87:HIS:CD2	1:Z:219:ARG:HH12	2.33	0.47
1:1:153:LYS:HG2	1:1:170:ASN:HD22	1.80	0.47
1:1:301:ASP:HA	1:w:568:ALA:HB3	1.97	0.47
1:2:119:TRP:HB2	1:2:462:TYR:O	2.14	0.47
1:2:386:TRP:HH2	1:i:510:PRO:O	1.97	0.47
1:2:423:ASN:HB3	1:2:426:GLN:OE1	2.13	0.47
1:3:119:TRP:HB2	1:3:462:TYR:O	2.14	0.47
1:4:153:LYS:HG2	1:4:170:ASN:HD22	1.80	0.47
1:4:345:PHE:CE1	1:4:354:LYS:HB2	2.50	0.47
1:5:85:ARG:HB3	1:5:105:GLU:OE1	2.15	0.47
1:5:277:ARG:HB3	1:5:584:ARG:HH12	1.80	0.47
1:5:345:PHE:CE1	1:5:354:LYS:HB2	2.50	0.47
1:6:277:ARG:HD3	1:6:584:ARG:NH1	2.30	0.47
1:a:386:TRP:HH2	1:u:510:PRO:O	1.97	0.47
1:b:277:ARG:HB3	1:b:584:ARG:HH12	1.80	0.47
1:b:288:LEU:O	1:b:332:ARG:NH1	2.48	0.47
1:c:87:HIS:CD2	1:c:219:ARG:HH12	2.33	0.47
1:d:85:ARG:HB3	1:d:105:GLU:OE1	2.15	0.47
1:d:87:HIS:CD2	1:d:219:ARG:HH12	2.33	0.47
1:d:153:LYS:HG2	1:d:170:ASN:HD22	1.80	0.47
1:f:87:HIS:CD2	1:f:219:ARG:HH12	2.33	0.47
1:h:87:HIS:CD2	1:h:219:ARG:HH12	2.33	0.47
1:h:153:LYS:HG2	1:h:170:ASN:HD22	1.80	0.47
1:h:510:PRO:O	1:l:386:TRP:HH2	1.97	0.47
1:i:88:ASN:O	1:i:92:THR:OG1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:119:TRP:HB2	1:i:462:TYR:O	2.14	0.47
1:i:277:ARG:HD3	1:i:584:ARG:NH1	2.30	0.47
1:j:277:ARG:HD3	1:j:584:ARG:NH1	2.30	0.47
1:k:119:TRP:HB2	1:k:462:TYR:O	2.14	0.47
1:k:277:ARG:HB3	1:k:584:ARG:HH12	1.80	0.47
1:l:87:HIS:CD2	1:l:219:ARG:HH12	2.33	0.47
1:l:277:ARG:HD3	1:l:584:ARG:NH1	2.30	0.47
1:l:345:PHE:CE1	1:l:354:LYS:HB2	2.50	0.47
1:l:510:PRO:O	1:r:386:TRP:HH2	1.98	0.47
1:m:85:ARG:HB3	1:m:105:GLU:OE1	2.15	0.47
1:m:87:HIS:CD2	1:m:219:ARG:HH12	2.33	0.47
1:n:85:ARG:HB3	1:n:105:GLU:OE1	2.15	0.47
1:n:277:ARG:HB3	1:n:584:ARG:HH12	1.80	0.47
1:n:301:ASP:HA	1:y:568:ALA:HB3	1.97	0.47
1:n:345:PHE:CE1	1:n:354:LYS:HB2	2.50	0.47
1:n:386:TRP:HH2	1:z:510:PRO:O	1.97	0.47
1:o:88:ASN:O	1:o:92:THR:OG1	2.32	0.47
1:o:277:ARG:HD3	1:o:584:ARG:NH1	2.30	0.47
1:o:277:ARG:HB3	1:o:584:ARG:HH12	1.80	0.47
1:p:85:ARG:HB3	1:p:105:GLU:OE1	2.15	0.47
1:p:288:LEU:O	1:p:332:ARG:NH1	2.48	0.47
1:q:87:HIS:CD2	1:q:219:ARG:HH12	2.33	0.47
1:q:345:PHE:CE1	1:q:354:LYS:HB2	2.50	0.47
1:s:277:ARG:HB3	1:s:584:ARG:HH12	1.80	0.47
1:s:345:PHE:CE1	1:s:354:LYS:HB2	2.50	0.47
1:t:105:GLU:HB2	1:t:217:CYS:HB2	1.95	0.47
1:t:288:LEU:O	1:t:332:ARG:NH1	2.48	0.47
1:t:558:TYR:OH	1:t:576:PRO:O	2.20	0.47
1:u:153:LYS:HG2	1:u:170:ASN:HD22	1.80	0.47
1:v:85:ARG:HB3	1:v:105:GLU:OE1	2.15	0.47
1:v:119:TRP:HB2	1:v:462:TYR:O	2.14	0.47
1:v:279:THR:OG1	1:v:584:ARG:HD3	2.14	0.47
1:v:384:GLN:O	1:v:573:THR:OG1	2.27	0.47
1:w:153:LYS:HG2	1:w:170:ASN:HD22	1.80	0.47
1:w:345:PHE:CE1	1:w:354:LYS:HB2	2.50	0.47
1:y:85:ARG:HB3	1:y:105:GLU:OE1	2.15	0.47
1:y:277:ARG:HB3	1:y:584:ARG:HH12	1.80	0.47
1:z:290:GLN:HE21	1:7:212:ARG:CZ	2.28	0.47
1:8:119:TRP:HB2	1:8:462:TYR:O	2.14	0.47
1:B:119:TRP:HB2	1:B:462:TYR:O	2.14	0.47
1:C:277:ARG:HB3	1:C:584:ARG:HH12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:277:ARG:HD3	1:C:584:ARG:NH1	2.30	0.47
1:C:288:LEU:O	1:C:332:ARG:NH1	2.48	0.47
1:D:88:ASN:O	1:D:92:THR:OG1	2.32	0.47
1:D:290:GLN:HE21	1:N:212:ARG:CZ	2.28	0.47
1:E:301:ASP:HA	1:P:568:ALA:HB3	1.97	0.47
1:F:85:ARG:HB3	1:F:105:GLU:OE1	2.15	0.47
1:G:345:PHE:CE1	1:G:354:LYS:HB2	2.50	0.47
1:H:251:ASN:HD21	1:Z:202:PRO:HG2	1.80	0.47
1:J:85:ARG:HB3	1:J:105:GLU:OE1	2.15	0.47
1:J:87:HIS:CD2	1:J:219:ARG:HH12	2.33	0.47
1:J:317:THR:HG21	1:J:322[B]:ARG:HH21	1.80	0.47
1:J:386:TRP:HH2	1:1:510:PRO:O	1.97	0.47
1:L:119:TRP:HB2	1:L:462:TYR:O	2.14	0.47
1:O:277:ARG:HD3	1:O:584:ARG:NH1	2.30	0.47
1:O:327:GLU:OE2	1:g:214:TYR:OH	2.22	0.47
1:P:85:ARG:HB3	1:P:105:GLU:OE1	2.15	0.47
1:Q:88:ASN:O	1:Q:92:THR:OG1	2.32	0.47
1:Q:301:ASP:HA	1:R:568:ALA:HB3	1.97	0.47
1:S:423:ASN:HB3	1:S:426:GLN:OE1	2.14	0.47
1:V:277:ARG:HB3	1:V:584:ARG:HH12	1.80	0.47
1:W:290:GLN:HE21	1:Y:212:ARG:CZ	2.28	0.47
1:X:288:LEU:O	1:X:332:ARG:NH1	2.48	0.47
1:Z:326:THR:HG21	1:x:100:MET:HA	1.96	0.47
1:1:85:ARG:HB3	1:1:105:GLU:OE1	2.14	0.47
1:1:87:HIS:CD2	1:1:219:ARG:HH12	2.33	0.47
1:2:345:PHE:CE1	1:2:354:LYS:HB2	2.50	0.47
1:3:423:ASN:HB3	1:3:426:GLN:OE1	2.13	0.47
1:6:100:MET:HA	1:a:326:THR:HG21	1.96	0.47
1:a:88:ASN:O	1:a:92:THR:OG1	2.32	0.47
1:a:277:ARG:HB3	1:a:584:ARG:HH12	1.80	0.47
1:c:212:ARG:CZ	1:e:290:GLN:HE21	2.28	0.47
1:c:368:HIS:CD2	1:e:320:GLN:HG2	2.49	0.47
1:f:510:PRO:O	1:h:386:TRP:HH2	1.97	0.47
1:g:301:ASP:HA	1:l:568:ALA:HB3	1.97	0.47
1:h:85:ARG:HB3	1:h:105:GLU:OE1	2.15	0.47
1:m:119:TRP:HB2	1:m:462:TYR:O	2.14	0.47
1:o:197:THR:O	1:o:382:HIS:NE2	2.40	0.47
1:o:301:ASP:HA	1:u:568:ALA:HB3	1.97	0.47
1:o:558:TYR:OH	1:o:576:PRO:O	2.20	0.47
1:q:277:ARG:HD3	1:q:584:ARG:NH1	2.30	0.47
1:q:327:GLU:OE2	1:r:214:TYR:OH	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:119:TRP:HB2	1:s:462:TYR:O	2.14	0.47
1:v:301:ASP:HA	1:x:568:ALA:HB3	1.97	0.47
1:x:85:ARG:HB3	1:x:105:GLU:OE1	2.15	0.47
1:y:277:ARG:HD3	1:y:584:ARG:NH1	2.30	0.47
1:z:88:ASN:O	1:z:92:THR:OG1	2.32	0.47
1:A:128:TRP:CE2	1:A:462:TYR:HB2	2.50	0.47
1:B:345:PHE:CE1	1:B:354:LYS:HB2	2.50	0.47
1:D:119:TRP:HB2	1:D:462:TYR:O	2.14	0.47
1:D:153:LYS:HG2	1:D:170:ASN:HD22	1.80	0.47
1:D:288:LEU:O	1:D:332:ARG:NH1	2.48	0.47
1:E:345:PHE:CE1	1:E:354:LYS:HB2	2.50	0.47
1:I:384:GLN:O	1:I:573:THR:OG1	2.27	0.47
1:O:153:LYS:HG2	1:O:170:ASN:HD22	1.80	0.47
1:T:288:LEU:O	1:T:332:ARG:NH1	2.47	0.47
1:T:384:GLN:O	1:T:573:THR:OG1	2.27	0.47
1:U:153:LYS:HG2	1:U:170:ASN:HD22	1.80	0.47
1:V:277:ARG:HD3	1:V:584:ARG:NH1	2.30	0.47
1:W:153:LYS:HG2	1:W:170:ASN:HD22	1.80	0.47
1:1:326:THR:HG21	1:8:100:MET:HA	1.96	0.47
1:3:345:PHE:CE1	1:3:354:LYS:HB2	2.50	0.47
1:5:277:ARG:HD3	1:5:584:ARG:NH1	2.30	0.47
1:b:277:ARG:HD3	1:b:584:ARG:NH1	2.30	0.47
1:e:153:LYS:HG2	1:e:170:ASN:HD22	1.80	0.47
1:e:277:ARG:HD3	1:e:584:ARG:NH1	2.30	0.47
1:g:119:TRP:HB2	1:g:462:TYR:O	2.14	0.47
1:g:197:THR:O	1:g:382:HIS:NE2	2.40	0.47
1:j:288:LEU:O	1:j:332:ARG:NH1	2.48	0.47
1:k:345:PHE:CE1	1:k:354:LYS:HB2	2.50	0.47
1:k:568:ALA:HB3	1:r:301:ASP:HA	1.97	0.47
1:q:119:TRP:HB2	1:q:462:TYR:O	2.14	0.47
1:t:384:GLN:O	1:t:573:THR:OG1	2.27	0.47
1:v:423:ASN:HB3	1:v:426:GLN:OE1	2.13	0.47
1:w:317:THR:HG21	1:w:322[B]:ARG:HH21	1.79	0.47
1:x:288:LEU:O	1:x:332:ARG:NH1	2.47	0.47
1:z:87:HIS:CD2	1:z:219:ARG:HH12	2.33	0.47
1:z:119:TRP:HB2	1:z:462:TYR:O	2.14	0.47
1:z:279:THR:OG1	1:z:584:ARG:HD3	2.14	0.47
1:8:153:LYS:HG2	1:8:170:ASN:HD22	1.80	0.47
1:8:277:ARG:HD3	1:8:584:ARG:NH1	2.30	0.47
1:A:87:HIS:CD2	1:A:219:ARG:HH12	2.33	0.47
1:A:279:THR:OG1	1:A:584:ARG:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:290:GLN:HE21	1:J:212:ARG:CZ	2.28	0.47
1:D:87:HIS:CD2	1:D:219:ARG:HH12	2.33	0.47
1:E:128:TRP:CE2	1:E:462:TYR:HB2	2.50	0.47
1:E:214:TYR:OH	1:F:327:GLU:OE2	2.22	0.47
1:E:277:ARG:HD3	1:E:584:ARG:NH1	2.30	0.47
1:F:345:PHE:CE1	1:F:354:LYS:HB2	2.50	0.47
1:G:119:TRP:HB2	1:G:462:TYR:O	2.14	0.47
1:H:87:HIS:CD2	1:H:219:ARG:HH12	2.33	0.47
1:I:85:ARG:HB3	1:I:105:GLU:OE1	2.15	0.47
1:I:288:LEU:O	1:I:332:ARG:NH1	2.48	0.47
1:K:119:TRP:HB2	1:K:462:TYR:O	2.14	0.47
1:M:214:TYR:OH	1:2:327:GLU:OE2	2.22	0.47
1:O:100:MET:HA	1:h:326:THR:HG21	1.96	0.47
1:P:277:ARG:HD3	1:P:584:ARG:NH1	2.30	0.47
1:P:345:PHE:CE1	1:P:354:LYS:HB2	2.50	0.47
1:Q:345:PHE:CE1	1:Q:354:LYS:HB2	2.50	0.47
1:R:85:ARG:HB3	1:R:105:GLU:OE1	2.15	0.47
1:R:179:ALA:HB2	1:R:255:ILE:HG13	1.97	0.47
1:S:277:ARG:HD3	1:S:584:ARG:NH1	2.30	0.47
1:S:288:LEU:O	1:S:332:ARG:NH1	2.48	0.47
1:T:119:TRP:HB2	1:T:462:TYR:O	2.14	0.47
1:T:326:THR:HG21	1:4:100:MET:HA	1.96	0.47
1:T:345:PHE:CE1	1:T:354:LYS:HB2	2.50	0.47
1:U:87:HIS:CD2	1:U:219:ARG:HH12	2.33	0.47
1:V:88:ASN:O	1:V:92:THR:OG1	2.32	0.47
1:W:119:TRP:HB2	1:W:462:TYR:O	2.14	0.47
1:X:277:ARG:HD3	1:X:584:ARG:NH1	2.30	0.47
1:X:345:PHE:CE1	1:X:354:LYS:HB2	2.50	0.47
1:Y:153:LYS:HG2	1:Y:170:ASN:HD22	1.80	0.47
1:2:88:ASN:O	1:2:92:THR:OG1	2.32	0.47
1:3:128:TRP:CE2	1:3:462:TYR:HB2	2.50	0.47
1:4:85:ARG:HB3	1:4:105:GLU:OE1	2.15	0.47
1:a:179:ALA:HB2	1:a:255:ILE:HG13	1.97	0.47
1:a:277:ARG:HD3	1:a:584:ARG:NH1	2.30	0.47
1:b:87:HIS:CD2	1:b:219:ARG:HH12	2.33	0.47
1:c:153:LYS:HG2	1:c:170:ASN:HD22	1.80	0.47
1:g:568:ALA:HB3	1:l:301:ASP:HA	1.97	0.47
1:i:345:PHE:CE1	1:i:354:LYS:HB2	2.50	0.47
1:j:277:ARG:HB3	1:j:584:ARG:HH12	1.80	0.47
1:k:301:ASP:HA	1:r:568:ALA:HB3	1.97	0.47
1:l:85:ARG:HB3	1:l:105:GLU:OE1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:288:LEU:O	1:m:332:ARG:NH1	2.48	0.47
1:m:345:PHE:CE1	1:m:354:LYS:HB2	2.50	0.47
1:n:128:TRP:CE2	1:n:462:TYR:HB2	2.51	0.47
1:o:279:THR:OG1	1:o:584:ARG:HD3	2.14	0.47
1:o:326:THR:HG21	1:p:100:MET:HA	1.96	0.47
1:p:277:ARG:HD3	1:p:584:ARG:NH1	2.30	0.47
1:p:345:PHE:CE1	1:p:354:LYS:HB2	2.50	0.47
1:q:100:MET:HA	1:s:326:THR:HG21	1.96	0.47
1:r:85:ARG:HB3	1:r:105:GLU:OE1	2.15	0.47
1:r:288:LEU:O	1:r:332:ARG:NH1	2.48	0.47
1:s:87:HIS:CD2	1:s:219:ARG:HH12	2.33	0.47
1:s:128:TRP:CE2	1:s:462:TYR:HB2	2.50	0.47
1:s:279:THR:OG1	1:s:584:ARG:HD3	2.14	0.47
1:u:179:ALA:HB2	1:u:255:ILE:HG13	1.97	0.47
1:w:85:ARG:HB3	1:w:105:GLU:OE1	2.15	0.47
1:x:345:PHE:CE1	1:x:354:LYS:HB2	2.50	0.47
1:z:288:LEU:O	1:z:332:ARG:NH1	2.48	0.47
1:7:179:ALA:HB2	1:7:255:ILE:HG13	1.97	0.47
1:8:288:LEU:O	1:8:332:ARG:NH1	2.47	0.47
1:A:193:ASP:HB3	1:I:330:ARG:NH2	2.30	0.46
1:C:119:TRP:HB2	1:C:462:TYR:O	2.14	0.46
1:C:510:PRO:O	1:D:386:TRP:HH2	1.98	0.46
1:D:144:ASP:OD1	1:D:268:THR:HA	2.16	0.46
1:D:384:GLN:O	1:D:573:THR:OG1	2.27	0.46
1:E:179:ALA:HB2	1:E:255:ILE:HG13	1.97	0.46
1:E:290:GLN:HE21	1:Q:212:ARG:CZ	2.29	0.46
1:F:100:MET:HA	1:Q:326:THR:HG21	1.96	0.46
1:F:277:ARG:HD3	1:F:584:ARG:NH1	2.30	0.46
1:G:128:TRP:CE2	1:G:462:TYR:HB2	2.50	0.46
1:H:193:ASP:HB3	1:Y:330:ARG:NH2	2.29	0.46
1:I:119:TRP:HB2	1:I:462:TYR:O	2.14	0.46
1:J:288:LEU:O	1:J:332:ARG:NH1	2.48	0.46
1:K:197:THR:O	1:K:382:HIS:NE2	2.40	0.46
1:L:345:PHE:CE1	1:L:354:LYS:HB2	2.50	0.46
1:M:345:PHE:CE1	1:M:354:LYS:HB2	2.50	0.46
1:N:179:ALA:HB2	1:N:255:ILE:HG13	1.97	0.46
1:O:85:ARG:HB3	1:O:105:GLU:OE1	2.15	0.46
1:O:128:TRP:CE2	1:O:462:TYR:HB2	2.50	0.46
1:Q:128:TRP:CE2	1:Q:462:TYR:HB2	2.50	0.46
1:R:317:THR:HG21	1:R:322[B]:ARG:HH21	1.80	0.46
1:V:179:ALA:HB2	1:V:255:ILE:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:144:ASP:OD1	1:W:268:THR:HA	2.16	0.46
1:W:277:ARG:HD3	1:W:584:ARG:NH1	2.30	0.46
1:2:128:TRP:CE2	1:2:462:TYR:HB2	2.50	0.46
1:2:179:ALA:HB2	1:2:255:ILE:HG13	1.97	0.46
1:b:345:PHE:CE1	1:b:354:LYS:HB2	2.50	0.46
1:d:202:PRO:HG2	1:r:251:ASN:HD21	1.80	0.46
1:e:128:TRP:CE2	1:e:462:TYR:HB2	2.50	0.46
1:f:144:ASP:OD1	1:f:268:THR:HA	2.16	0.46
1:f:281:THR:H	1:f:401:ASN:ND2	2.12	0.46
1:g:345:PHE:CE1	1:g:354:LYS:HB2	2.50	0.46
1:i:144:ASP:OD1	1:i:268:THR:HA	2.15	0.46
1:k:290:GLN:HE21	1:l:212:ARG:CZ	2.29	0.46
1:l:288:LEU:O	1:l:332:ARG:NH1	2.48	0.46
1:n:277:ARG:HD3	1:n:584:ARG:NH1	2.30	0.46
1:n:326:THR:HG21	1:o:100:MET:HA	1.95	0.46
1:q:128:TRP:CE2	1:q:462:TYR:HB2	2.51	0.46
1:u:85:ARG:HB3	1:u:105:GLU:OE1	2.15	0.46
1:x:119:TRP:HB2	1:x:462:TYR:O	2.14	0.46
1:x:384:GLN:O	1:x:573:THR:OG1	2.27	0.46
1:y:345:PHE:CE1	1:y:354:LYS:HB2	2.50	0.46
1:z:144:ASP:OD1	1:z:268:THR:HA	2.16	0.46
1:z:153:LYS:HG2	1:z:170:ASN:HD22	1.80	0.46
1:8:85:ARG:HB3	1:8:105:GLU:OE1	2.15	0.46
1:8:128:TRP:CE2	1:8:462:TYR:HB2	2.50	0.46
1:8:144:ASP:OD1	1:8:268:THR:HA	2.16	0.46
1:C:87:HIS:CD2	1:C:219:ARG:HH12	2.33	0.46
1:C:128:TRP:CE2	1:C:462:TYR:HB2	2.51	0.46
1:D:568:ALA:HB3	1:M:301:ASP:HA	1.97	0.46
1:E:326:THR:HG21	1:Q:100:MET:HA	1.95	0.46
1:G:144:ASP:OD1	1:G:268:THR:HA	2.16	0.46
1:H:128:TRP:CE2	1:H:462:TYR:HB2	2.50	0.46
1:I:277:ARG:HD3	1:I:584:ARG:NH1	2.30	0.46
1:J:153:LYS:HG2	1:J:170:ASN:HD22	1.80	0.46
1:K:277:ARG:HD3	1:K:584:ARG:NH1	2.30	0.46
1:K:290:GLN:HE21	1:1:212:ARG:CZ	2.28	0.46
1:K:345:PHE:CE1	1:K:354:LYS:HB2	2.50	0.46
1:L:59:GLY:O	1:L:535:LYS:HA	2.16	0.46
1:L:288:LEU:O	1:L:332:ARG:NH1	2.48	0.46
1:O:144:ASP:OD1	1:O:268:THR:HA	2.16	0.46
1:O:288:LEU:O	1:O:332:ARG:NH1	2.48	0.46
1:Q:386:TRP:HH2	1:S:510:PRO:O	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:153:LYS:HG2	1:V:170:ASN:HD22	1.80	0.46
1:W:128:TRP:CE2	1:W:462:TYR:HB2	2.50	0.46
1:X:87:HIS:CD2	1:X:219:ARG:HH12	2.33	0.46
1:3:88:ASN:O	1:3:92:THR:OG1	2.32	0.46
1:3:179:ALA:HB2	1:3:255:ILE:HG13	1.97	0.46
1:3:277:ARG:HD3	1:3:584:ARG:NH1	2.30	0.46
1:3:327:GLU:OE2	1:i:214:TYR:OH	2.22	0.46
1:a:153:LYS:HG2	1:a:170:ASN:HD22	1.80	0.46
1:a:251:ASN:HD21	1:e:202:PRO:HG2	1.80	0.46
1:d:179:ALA:HB2	1:d:255:ILE:HG13	1.97	0.46
1:e:144:ASP:OD1	1:e:268:THR:HA	2.16	0.46
1:e:558:TYR:OH	1:e:576:PRO:O	2.20	0.46
1:f:119:TRP:HB2	1:f:462:TYR:O	2.14	0.46
1:f:153:LYS:HG2	1:f:170:ASN:HD22	1.80	0.46
1:g:87:HIS:CD2	1:g:219:ARG:HH12	2.33	0.46
1:g:277:ARG:HD3	1:g:584:ARG:NH1	2.30	0.46
1:i:301:ASP:HA	1:z:568:ALA:HB3	1.97	0.46
1:j:128:TRP:CE2	1:j:462:TYR:HB2	2.51	0.46
1:j:510:PRO:O	1:z:386:TRP:HH2	1.98	0.46
1:l:153:LYS:HG2	1:l:170:ASN:HD22	1.80	0.46
1:m:59:GLY:O	1:m:535:LYS:HA	2.16	0.46
1:n:179:ALA:HB2	1:n:255:ILE:HG13	1.97	0.46
1:o:128:TRP:CE2	1:o:462:TYR:HB2	2.51	0.46
1:o:345:PHE:CE1	1:o:354:LYS:HB2	2.50	0.46
1:p:144:ASP:OD1	1:p:268:THR:HA	2.15	0.46
1:q:144:ASP:OD1	1:q:268:THR:HA	2.16	0.46
1:q:290:GLN:HE21	1:r:212:ARG:CZ	2.29	0.46
1:r:119:TRP:HB2	1:r:462:TYR:O	2.14	0.46
1:r:277:ARG:HD3	1:r:584:ARG:NH1	2.30	0.46
1:t:153:LYS:HG2	1:t:170:ASN:HD22	1.80	0.46
1:v:277:ARG:HD3	1:v:584:ARG:NH1	2.30	0.46
1:v:288:LEU:O	1:v:332:ARG:NH1	2.47	0.46
1:v:317:THR:HG21	1:v:322[B]:ARG:HH21	1.79	0.46
1:w:100:MET:HA	1:x:326:THR:HG21	1.96	0.46
1:w:128:TRP:CE2	1:w:462:TYR:HB2	2.50	0.46
1:w:144:ASP:OD1	1:w:268:THR:HA	2.15	0.46
1:8:277:ARG:HB3	1:8:584:ARG:HH12	1.80	0.46
1:D:59:GLY:O	1:D:535:LYS:HA	2.16	0.46
1:G:153:LYS:HG2	1:G:170:ASN:HD22	1.80	0.46
1:I:59:GLY:O	1:I:535:LYS:HA	2.16	0.46
1:I:260:THR:HG22	1:J:259:ARG:HH12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:87:HIS:CD2	1:K:219:ARG:HH12	2.33	0.46
1:K:144:ASP:OD1	1:K:268:THR:HA	2.15	0.46
1:L:179:ALA:HB2	1:L:255:ILE:HG13	1.97	0.46
1:L:277:ARG:HB3	1:L:584:ARG:HH12	1.80	0.46
1:M:87:HIS:CD2	1:M:219:ARG:HH12	2.33	0.46
1:M:144:ASP:OD1	1:M:268:THR:HA	2.16	0.46
1:N:144:ASP:OD1	1:N:268:THR:HA	2.15	0.46
1:O:277:ARG:HB3	1:O:584:ARG:HH12	1.80	0.46
1:Q:179:ALA:HB2	1:Q:255:ILE:HG13	1.97	0.46
1:Q:279:THR:OG1	1:Q:584:ARG:HD3	2.14	0.46
1:R:59:GLY:O	1:R:535:LYS:HA	2.16	0.46
1:R:119:TRP:HB2	1:R:462:TYR:O	2.14	0.46
1:R:277:ARG:HB3	1:R:584:ARG:HH12	1.80	0.46
1:R:277:ARG:HD3	1:R:584:ARG:NH1	2.30	0.46
1:T:59:GLY:O	1:T:535:LYS:HA	2.16	0.46
1:T:277:ARG:HB3	1:T:584:ARG:HH12	1.80	0.46
1:U:384:GLN:O	1:U:573:THR:OG1	2.27	0.46
1:W:87:HIS:CD2	1:W:219:ARG:HH12	2.33	0.46
1:Y:88:ASN:O	1:Y:92:THR:OG1	2.32	0.46
1:Z:119:TRP:HB2	1:Z:462:TYR:O	2.14	0.46
1:Z:144:ASP:OD1	1:Z:268:THR:HA	2.16	0.46
1:Z:281:THR:H	1:Z:401:ASN:ND2	2.12	0.46
1:4:128:TRP:CE2	1:4:462:TYR:HB2	2.50	0.46
1:6:87:HIS:CD2	1:6:219:ARG:HH12	2.33	0.46
1:a:87:HIS:CD2	1:a:219:ARG:HH12	2.33	0.46
1:b:301:ASP:HA	1:e:568:ALA:HB3	1.97	0.46
1:c:88:ASN:O	1:c:92:THR:OG1	2.32	0.46
1:d:301:ASP:HA	1:q:568:ALA:HB3	1.97	0.46
1:e:119:TRP:HB2	1:e:462:TYR:O	2.14	0.46
1:f:277:ARG:HD3	1:f:584:ARG:NH1	2.30	0.46
1:g:144:ASP:OD1	1:g:268:THR:HA	2.15	0.46
1:i:87:HIS:CD2	1:i:219:ARG:HH12	2.33	0.46
1:j:87:HIS:CD2	1:j:219:ARG:HH12	2.33	0.46
1:j:119:TRP:HB2	1:j:462:TYR:O	2.14	0.46
1:m:277:ARG:HB3	1:m:584:ARG:HH12	1.80	0.46
1:n:290:GLN:HE21	1:o:212:ARG:CZ	2.29	0.46
1:o:386:TRP:HH2	1:v:510:PRO:O	1.97	0.46
1:p:301:ASP:HA	1:s:568:ALA:HB3	1.96	0.46
1:r:59:GLY:O	1:r:535:LYS:HA	2.16	0.46
1:r:290:GLN:HE21	1:s:212:ARG:CZ	2.29	0.46
1:t:87:HIS:CD2	1:t:219:ARG:HH12	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:59:GLY:O	1:u:535:LYS:HA	2.16	0.46
1:x:59:GLY:O	1:x:535:LYS:HA	2.16	0.46
1:x:153:LYS:HG2	1:x:170:ASN:HD22	1.80	0.46
1:z:59:GLY:O	1:z:535:LYS:HA	2.16	0.46
1:z:277:ARG:HD3	1:z:584:ARG:NH1	2.30	0.46
1:B:212:ARG:CZ	1:L:290:GLN:HE21	2.28	0.46
1:B:288:LEU:O	1:B:332:ARG:NH1	2.48	0.46
1:B:301:ASP:HA	1:I:568:ALA:HB3	1.98	0.46
1:C:326:THR:HG21	1:2:100:MET:HA	1.96	0.46
1:E:87:HIS:CD2	1:E:219:ARG:HH12	2.33	0.46
1:F:59:GLY:O	1:F:535:LYS:HA	2.16	0.46
1:F:144:ASP:OD1	1:F:268:THR:HA	2.16	0.46
1:F:179:ALA:HB2	1:F:255:ILE:HG13	1.97	0.46
1:F:212:ARG:CZ	1:Q:290:GLN:HE21	2.29	0.46
1:H:179:ALA:HB2	1:H:255:ILE:HG13	1.97	0.46
1:H:277:ARG:HD3	1:H:584:ARG:NH1	2.30	0.46
1:H:345:PHE:CE1	1:H:354:LYS:HB2	2.50	0.46
1:O:59:GLY:O	1:O:535:LYS:HA	2.16	0.46
1:Q:59:GLY:O	1:Q:535:LYS:HA	2.16	0.46
1:R:212:ARG:CZ	1:U:290:GLN:HE21	2.28	0.46
1:R:345:PHE:CE1	1:R:354:LYS:HB2	2.50	0.46
1:S:144:ASP:OD1	1:S:268:THR:HA	2.15	0.46
1:T:330:ARG:NH2	1:4:193:ASP:HB3	2.31	0.46
1:U:301:ASP:HA	1:V:568:ALA:HB3	1.97	0.46
1:U:345:PHE:CE1	1:U:354:LYS:HB2	2.50	0.46
1:V:87:HIS:CD2	1:V:219:ARG:HH12	2.33	0.46
1:Y:59:GLY:O	1:Y:535:LYS:HA	2.16	0.46
1:Y:277:ARG:HB3	1:Y:584:ARG:HH12	1.80	0.46
1:Y:345:PHE:CE1	1:Y:354:LYS:HB2	2.50	0.46
1:Z:153:LYS:HG2	1:Z:170:ASN:HD22	1.80	0.46
1:Z:277:ARG:HD3	1:Z:584:ARG:NH1	2.30	0.46
1:2:277:ARG:HD3	1:2:584:ARG:NH1	2.30	0.46
1:3:100:MET:HA	1:j:326:THR:HG21	1.96	0.46
1:3:144:ASP:OD1	1:3:268:THR:HA	2.15	0.46
1:4:87:HIS:CD2	1:4:219:ARG:HH12	2.33	0.46
1:4:144:ASP:OD1	1:4:268:THR:HA	2.16	0.46
1:a:59:GLY:O	1:a:535:LYS:HA	2.16	0.46
1:b:85:ARG:HB3	1:b:105:GLU:OE1	2.15	0.46
1:c:345:PHE:CE1	1:c:354:LYS:HB2	2.50	0.46
1:d:128:TRP:CE2	1:d:462:TYR:HB2	2.51	0.46
1:d:345:PHE:CE1	1:d:354:LYS:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:87:HIS:CD2	1:e:219:ARG:HH12	2.33	0.46
1:e:251:ASN:HD21	1:q:202:PRO:HG2	1.80	0.46
1:e:277:ARG:HB3	1:e:584:ARG:HH12	1.80	0.46
1:g:179:ALA:HB2	1:g:255:ILE:HG13	1.97	0.46
1:j:153:LYS:HG2	1:j:170:ASN:HD22	1.80	0.46
1:k:212:ARG:CZ	1:m:290:GLN:HE21	2.28	0.46
1:l:179:ALA:HB2	1:l:255:ILE:HG13	1.97	0.46
1:m:179:ALA:HB2	1:m:255:ILE:HG13	1.97	0.46
1:n:288:LEU:O	1:n:332:ARG:NH1	2.47	0.46
1:o:153:LYS:HG2	1:o:170:ASN:HD22	1.80	0.46
1:o:179:ALA:HB2	1:o:255:ILE:HG13	1.97	0.46
1:o:317:THR:HG21	1:o:322[B]:ARG:HH21	1.79	0.46
1:o:568:ALA:HB3	1:u:301:ASP:HA	1.97	0.46
1:p:128:TRP:CE2	1:p:462:TYR:HB2	2.50	0.46
1:p:179:ALA:HB2	1:p:255:ILE:HG13	1.97	0.46
1:q:153:LYS:HG2	1:q:170:ASN:HD22	1.80	0.46
1:u:277:ARG:HD3	1:u:584:ARG:NH1	2.30	0.46
1:u:345:PHE:CE1	1:u:354:LYS:HB2	2.50	0.46
1:v:144:ASP:OD1	1:v:268:THR:HA	2.15	0.46
1:w:179:ALA:HB2	1:w:255:ILE:HG13	1.97	0.46
1:w:212:ARG:CZ	1:x:290:GLN:HE21	2.29	0.46
1:z:384:GLN:O	1:z:573:THR:OG1	2.27	0.46
1:7:128:TRP:CE2	1:7:462:TYR:HB2	2.50	0.46
1:8:59:GLY:O	1:8:535:LYS:HA	2.16	0.46
1:A:144:ASP:OD1	1:A:268:THR:HA	2.16	0.46
1:A:568:ALA:HB3	1:F:301:ASP:HA	1.97	0.46
1:C:59:GLY:O	1:C:535:LYS:HA	2.16	0.46
1:C:153:LYS:HG2	1:C:170:ASN:HD22	1.80	0.46
1:D:128:TRP:CE2	1:D:462:TYR:HB2	2.50	0.46
1:D:277:ARG:HD3	1:D:584:ARG:NH1	2.30	0.46
1:E:288:LEU:O	1:E:332:ARG:NH1	2.48	0.46
1:F:128:TRP:CE2	1:F:462:TYR:HB2	2.50	0.46
1:G:386:TRP:HH2	1:W:510:PRO:O	1.98	0.46
1:J:179:ALA:HB2	1:J:255:ILE:HG13	1.97	0.46
1:J:290:GLN:HE21	1:L:212:ARG:CZ	2.28	0.46
1:K:179:ALA:HB2	1:K:255:ILE:HG13	1.97	0.46
1:L:128:TRP:CE2	1:L:462:TYR:HB2	2.50	0.46
1:L:277:ARG:HD3	1:L:584:ARG:NH1	2.30	0.46
1:O:87:HIS:CD2	1:O:219:ARG:HH12	2.33	0.46
1:P:144:ASP:OD1	1:P:268:THR:HA	2.15	0.46
1:Q:153:LYS:HG2	1:Q:170:ASN:HD22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:568:ALA:HB3	1:R:301:ASP:HA	1.97	0.46
1:T:144:ASP:OD1	1:T:268:THR:HA	2.15	0.46
1:T:153:LYS:HG2	1:T:170:ASN:HD22	1.80	0.46
1:T:277:ARG:HD3	1:T:584:ARG:NH1	2.30	0.46
1:U:119:TRP:HB2	1:U:462:TYR:O	2.14	0.46
1:V:345:PHE:CE1	1:V:354:LYS:HB2	2.50	0.46
1:W:345:PHE:CE1	1:W:354:LYS:HB2	2.50	0.46
1:W:401:ASN:OD1	1:W:580:ARG:NH1	2.49	0.46
1:X:85:ARG:HB3	1:X:105:GLU:OE1	2.15	0.46
1:1:144:ASP:OD1	1:1:268:THR:HA	2.15	0.46
1:3:85:ARG:HB3	1:3:105:GLU:OE1	2.15	0.46
1:4:179:ALA:HB2	1:4:255:ILE:HG13	1.97	0.46
1:5:87:HIS:CD2	1:5:219:ARG:HH12	2.33	0.46
1:a:345:PHE:CE1	1:a:354:LYS:HB2	2.50	0.46
1:a:568:ALA:HB3	1:t:301:ASP:HA	1.97	0.46
1:c:59:GLY:O	1:c:535:LYS:HA	2.16	0.46
1:c:214:TYR:OH	1:e:327:GLU:OE2	2.22	0.46
1:c:277:ARG:HB3	1:c:584:ARG:HH12	1.80	0.46
1:c:301:ASP:HA	1:f:568:ALA:HB3	1.97	0.46
1:d:259:ARG:HH12	1:f:260:THR:HG22	1.81	0.46
1:e:179:ALA:HB2	1:e:255:ILE:HG13	1.97	0.46
1:e:345:PHE:CE1	1:e:354:LYS:HB2	2.50	0.46
1:f:345:PHE:CE1	1:f:354:LYS:HB2	2.50	0.46
1:i:277:ARG:HB3	1:i:584:ARG:HH12	1.80	0.46
1:j:59:GLY:O	1:j:535:LYS:HA	2.16	0.46
1:k:288:LEU:O	1:k:332:ARG:NH1	2.48	0.46
1:l:259:ARG:HH12	1:r:260:THR:HG22	1.81	0.46
1:m:277:ARG:HD3	1:m:584:ARG:NH1	2.30	0.46
1:o:59:GLY:O	1:o:535:LYS:HA	2.16	0.46
1:o:290:GLN:HE21	1:p:212:ARG:CZ	2.29	0.46
1:p:59:GLY:O	1:p:535:LYS:HA	2.16	0.46
1:r:330:ARG:NH2	1:s:193:ASP:HB3	2.31	0.46
1:s:144:ASP:OD1	1:s:268:THR:HA	2.16	0.46
1:t:119:TRP:HB2	1:t:462:TYR:O	2.14	0.46
1:t:277:ARG:HD3	1:t:584:ARG:NH1	2.30	0.46
1:t:290:GLN:HE21	1:u:212:ARG:CZ	2.28	0.46
1:t:345:PHE:CE1	1:t:354:LYS:HB2	2.50	0.46
1:u:119:TRP:HB2	1:u:462:TYR:O	2.14	0.46
1:u:128:TRP:CE2	1:u:462:TYR:HB2	2.50	0.46
1:u:277:ARG:HB3	1:u:584:ARG:HH12	1.80	0.46
1:w:193:ASP:HB3	1:x:330:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:144:ASP:OD1	1:x:268:THR:HA	2.15	0.46
1:x:277:ARG:HB3	1:x:584:ARG:HH12	1.80	0.46
1:y:88:ASN:O	1:y:92:THR:OG1	2.32	0.46
1:y:144:ASP:OD1	1:y:268:THR:HA	2.16	0.46
1:z:128:TRP:CE2	1:z:462:TYR:HB2	2.50	0.46
1:7:144:ASP:OD1	1:7:268:THR:HA	2.16	0.46
1:B:59:GLY:O	1:B:535:LYS:HA	2.16	0.46
1:B:277:ARG:HD3	1:B:584:ARG:NH1	2.30	0.46
1:C:401:ASN:OD1	1:C:580:ARG:NH1	2.49	0.46
1:D:277:ARG:HB3	1:D:584:ARG:HH12	1.80	0.46
1:G:88:ASN:O	1:G:92:THR:OG1	2.32	0.46
1:G:568:ALA:HB3	1:H:301:ASP:HA	1.97	0.46
1:I:345:PHE:CE1	1:I:354:LYS:HB2	2.50	0.46
1:J:277:ARG:HB3	1:J:584:ARG:HH12	1.80	0.46
1:J:301:ASP:HA	1:K:568:ALA:HB3	1.97	0.46
1:L:401:ASN:OD1	1:L:580:ARG:NH1	2.49	0.46
1:M:179:ALA:HB2	1:M:255:ILE:HG13	1.97	0.46
1:M:277:ARG:HB3	1:M:584:ARG:HH12	1.80	0.46
1:N:128:TRP:CE2	1:N:462:TYR:HB2	2.50	0.46
1:P:88:ASN:O	1:P:92:THR:OG1	2.32	0.46
1:Q:202:PRO:HG2	1:S:251:ASN:HD21	1.81	0.46
1:R:326:THR:HG21	1:S:100:MET:HA	1.95	0.46
1:S:277:ARG:HB3	1:S:584:ARG:HH12	1.80	0.46
1:T:259:ARG:HH12	1:c:260:THR:HG22	1.81	0.46
1:T:290:GLN:HE21	1:4:212:ARG:CZ	2.29	0.46
1:V:59:GLY:O	1:V:535:LYS:HA	2.16	0.46
1:W:277:ARG:HB3	1:W:584:ARG:HH12	1.80	0.46
1:W:301:ASP:HA	1:X:568:ALA:HB3	1.98	0.46
1:X:153:LYS:HG2	1:X:170:ASN:HD22	1.80	0.46
1:Z:345:PHE:CE1	1:Z:354:LYS:HB2	2.50	0.46
1:2:59:GLY:O	1:2:535:LYS:HA	2.16	0.46
1:2:85:ARG:HB3	1:2:105:GLU:OE1	2.15	0.46
1:2:144:ASP:OD1	1:2:268:THR:HA	2.16	0.46
1:3:59:GLY:O	1:3:535:LYS:HA	2.16	0.46
1:6:193:ASP:HB3	1:a:330:ARG:NH2	2.31	0.46
1:e:401:ASN:OD1	1:e:580:ARG:NH1	2.49	0.46
1:g:314:SER:HB2	1:h:392:LYS:HZ2	1.81	0.46
1:h:144:ASP:OD1	1:h:268:THR:HA	2.16	0.46
1:i:401:ASN:OD1	1:i:580:ARG:NH1	2.49	0.46
1:l:144:ASP:OD1	1:l:268:THR:HA	2.15	0.46
1:l:277:ARG:HB3	1:l:584:ARG:HH12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:401:ASN:OD1	1:l:580:ARG:NH1	2.49	0.46
1:m:401:ASN:OD1	1:m:580:ARG:NH1	2.49	0.46
1:n:260:THR:HG22	1:z:259:ARG:HH12	1.81	0.46
1:q:88:ASN:O	1:q:92:THR:OG1	2.32	0.46
1:q:193:ASP:HB3	1:s:330:ARG:NH2	2.31	0.46
1:r:128:TRP:CE2	1:r:462:TYR:HB2	2.51	0.46
1:w:87:HIS:CD2	1:w:219:ARG:HH12	2.33	0.46
1:y:212:ARG:CZ	1:7:290:GLN:HE21	2.29	0.46
1:z:277:ARG:HB3	1:z:584:ARG:HH12	1.80	0.46
1:z:558:TYR:OH	1:z:576:PRO:O	2.20	0.46
1:8:87:HIS:CD2	1:8:219:ARG:HH12	2.33	0.46
1:8:345:PHE:CE1	1:8:354:LYS:HB2	2.50	0.46
1:A:212:ARG:CZ	1:I:290:GLN:HE21	2.29	0.46
1:B:153:LYS:HG2	1:B:170:ASN:HD22	1.80	0.46
1:C:345:PHE:CE1	1:C:354:LYS:HB2	2.50	0.46
1:D:314:SER:HB2	1:N:392:LYS:NZ	2.31	0.46
1:H:314:SER:HB2	1:W:392:LYS:NZ	2.31	0.46
1:I:128:TRP:CE2	1:I:462:TYR:HB2	2.51	0.46
1:J:59:GLY:O	1:J:535:LYS:HA	2.16	0.46
1:J:128:TRP:CE2	1:J:462:TYR:HB2	2.50	0.46
1:J:144:ASP:OD1	1:J:268:THR:HA	2.15	0.46
1:J:401:ASN:OD1	1:J:580:ARG:NH1	2.49	0.46
1:K:128:TRP:CE2	1:K:462:TYR:HB2	2.50	0.46
1:M:251:ASN:HD21	1:3:202:PRO:HG2	1.81	0.46
1:N:290:GLN:HE21	1:P:212:ARG:CZ	2.29	0.46
1:N:568:ALA:HB3	1:O:301:ASP:HA	1.97	0.46
1:O:345:PHE:CE1	1:O:354:LYS:HB2	2.50	0.46
1:P:128:TRP:CE2	1:P:462:TYR:HB2	2.50	0.46
1:R:128:TRP:CE2	1:R:462:TYR:HB2	2.51	0.46
1:R:290:GLN:HE21	1:S:212:ARG:CZ	2.28	0.46
1:R:401:ASN:OD1	1:R:580:ARG:NH1	2.49	0.46
1:T:128:TRP:CE2	1:T:462:TYR:HB2	2.51	0.46
1:T:401:ASN:OD1	1:T:580:ARG:NH1	2.49	0.46
1:V:144:ASP:OD1	1:V:268:THR:HA	2.15	0.46
1:V:259:ARG:HH12	1:W:260:THR:HG22	1.79	0.46
1:W:179:ALA:HB2	1:W:255:ILE:HG13	1.97	0.46
1:W:327:GLU:OE2	1:Y:214:TYR:OH	2.22	0.46
1:X:193:ASP:HB3	1:5:330:ARG:NH2	2.31	0.46
1:X:260:THR:HG22	1:Y:259:ARG:HH12	1.81	0.46
1:Y:260:THR:HG22	1:x:259:ARG:HH12	1.81	0.46
1:4:301:ASP:HA	1:h:568:ALA:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:59:GLY:O	1:6:535:LYS:HA	2.16	0.46
1:a:144:ASP:OD1	1:a:268:THR:HA	2.16	0.46
1:c:128:TRP:CE2	1:c:462:TYR:HB2	2.50	0.46
1:c:290:GLN:HE21	1:d:212:ARG:CZ	2.29	0.46
1:d:568:ALA:HB3	1:q:301:ASP:HA	1.97	0.46
1:f:59:GLY:O	1:f:535:LYS:HA	2.16	0.46
1:f:277:ARG:HB3	1:f:584:ARG:HH12	1.80	0.46
1:g:128:TRP:CE2	1:g:462:TYR:HB2	2.50	0.46
1:g:153:LYS:HG2	1:g:170:ASN:HD22	1.80	0.46
1:h:251:ASN:HD21	1:l:202:PRO:HG2	1.81	0.46
1:i:128:TRP:CE2	1:i:462:TYR:HB2	2.50	0.46
1:j:345:PHE:CE1	1:j:354:LYS:HB2	2.50	0.46
1:j:401:ASN:OD1	1:j:580:ARG:NH1	2.49	0.46
1:k:277:ARG:HD3	1:k:584:ARG:NH1	2.30	0.46
1:l:128:TRP:CE2	1:l:462:TYR:HB2	2.50	0.46
1:m:128:TRP:CE2	1:m:462:TYR:HB2	2.50	0.46
1:n:87:HIS:CD2	1:n:219:ARG:HH12	2.33	0.46
1:n:193:ASP:HB3	1:p:330:ARG:NH2	2.31	0.46
1:o:202:PRO:HG2	1:v:251:ASN:HD21	1.81	0.46
1:p:510:PRO:O	1:u:386:TRP:HH2	1.97	0.46
1:q:277:ARG:HB3	1:q:584:ARG:HH12	1.80	0.46
1:r:345:PHE:CE1	1:r:354:LYS:HB2	2.50	0.46
1:s:59:GLY:O	1:s:535:LYS:HA	2.16	0.46
1:t:212:ARG:CZ	1:v:290:GLN:HE21	2.28	0.46
1:u:290:GLN:HE21	1:v:212:ARG:CZ	2.28	0.46
1:x:401:ASN:OD1	1:x:580:ARG:NH1	2.49	0.46
1:y:128:TRP:CE2	1:y:462:TYR:HB2	2.50	0.46
1:y:290:GLN:HE21	1:z:212:ARG:CZ	2.29	0.46
1:A:59:GLY:O	1:A:535:LYS:HA	2.16	0.46
1:A:290:GLN:HE21	1:G:212:ARG:CZ	2.29	0.46
1:A:330:ARG:NH2	1:G:193:ASP:HB3	2.31	0.46
1:B:128:TRP:CE2	1:B:462:TYR:HB2	2.50	0.46
1:C:330:ARG:NH2	1:2:193:ASP:HB3	2.31	0.46
1:D:212:ARG:CZ	1:P:290:GLN:HE21	2.29	0.46
1:D:259:ARG:HH12	1:E:260:THR:HG22	1.81	0.46
1:F:193:ASP:HB3	1:Q:330:ARG:NH2	2.31	0.46
1:F:510:PRO:O	1:R:386:TRP:HH2	1.97	0.46
1:H:144:ASP:OD1	1:H:268:THR:HA	2.16	0.46
1:K:251:ASN:HD21	1:7:202:PRO:HG2	1.80	0.46
1:M:128:TRP:CE2	1:M:462:TYR:HB2	2.51	0.46
1:M:401:ASN:OD1	1:M:580:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:345:PHE:CE1	1:N:354:LYS:HB2	2.50	0.46
1:P:401:ASN:OD1	1:P:580:ARG:NH1	2.49	0.46
1:T:202:PRO:HG2	1:U:251:ASN:HD21	1.81	0.46
1:U:85:ARG:HB3	1:U:105:GLU:OE1	2.15	0.46
1:U:260:THR:HG22	1:5:259:ARG:HH12	1.81	0.46
1:U:277:ARG:HD3	1:U:584:ARG:NH1	2.30	0.46
1:W:317:THR:HG21	1:W:322[B]:ARG:HH21	1.80	0.46
1:X:128:TRP:CE2	1:X:462:TYR:HB2	2.50	0.46
1:Y:128:TRP:CE2	1:Y:462:TYR:HB2	2.50	0.46
1:Z:59:GLY:O	1:Z:535:LYS:HA	2.16	0.46
1:Z:212:ARG:CZ	1:w:290:GLN:HE21	2.29	0.46
1:1:59:GLY:O	1:1:535:LYS:HA	2.16	0.46
1:1:290:GLN:HE21	1:8:212:ARG:CZ	2.29	0.46
1:1:568:ALA:HB3	1:w:301:ASP:HA	1.97	0.46
1:2:153:LYS:HG2	1:2:170:ASN:HD22	1.80	0.46
1:2:277:ARG:HB3	1:2:584:ARG:HH12	1.80	0.46
1:3:193:ASP:HB3	1:j:330:ARG:NH2	2.31	0.46
1:5:59:GLY:O	1:5:535:LYS:HA	2.16	0.46
1:6:153:LYS:HG2	1:6:170:ASN:HD22	1.80	0.46
1:6:259:ARG:HH12	1:t:260:THR:HG22	1.81	0.46
1:6:290:GLN:HE21	1:b:212:ARG:CZ	2.29	0.46
1:6:330:ARG:NH2	1:b:193:ASP:HB3	2.31	0.46
1:b:153:LYS:HG2	1:b:170:ASN:HD22	1.80	0.46
1:c:144:ASP:OD1	1:c:268:THR:HA	2.15	0.46
1:d:59:GLY:O	1:d:535:LYS:HA	2.16	0.46
1:d:260:THR:HG22	1:r:259:ARG:HH12	1.81	0.46
1:d:277:ARG:HD3	1:d:584:ARG:NH1	2.30	0.46
1:h:59:GLY:O	1:h:535:LYS:HA	2.16	0.46
1:h:277:ARG:HB3	1:h:584:ARG:HH12	1.80	0.46
1:j:259:ARG:HH12	1:z:260:THR:HG22	1.81	0.46
1:k:59:GLY:O	1:k:535:LYS:HA	2.16	0.46
1:l:59:GLY:O	1:l:535:LYS:HA	2.16	0.46
1:l:290:GLN:HE21	1:m:212:ARG:CZ	2.29	0.46
1:n:251:ASN:HD21	1:s:202:PRO:HG2	1.81	0.46
1:o:85:ARG:HB3	1:o:105:GLU:OE1	2.15	0.46
1:t:85:ARG:HB3	1:t:105:GLU:OE1	2.15	0.46
1:t:128:TRP:CE2	1:t:462:TYR:HB2	2.50	0.46
1:t:144:ASP:OD1	1:t:268:THR:HA	2.15	0.46
1:t:251:ASN:HD21	1:x:202:PRO:HG2	1.81	0.46
1:u:326:THR:HG21	1:v:100:MET:HA	1.96	0.46
1:u:401:ASN:OD1	1:u:580:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:260:THR:HG22	1:w:259:ARG:HH12	1.81	0.46
1:w:214:TYR:OH	1:x:327:GLU:OE2	2.22	0.46
1:x:128:TRP:CE2	1:x:462:TYR:HB2	2.51	0.46
1:x:277:ARG:HD3	1:x:584:ARG:NH1	2.30	0.46
1:y:401:ASN:OD1	1:y:580:ARG:NH1	2.49	0.46
1:7:568:ALA:HB3	1:8:301:ASP:HA	1.97	0.46
1:A:202:PRO:HG2	1:E:251:ASN:HD21	1.81	0.46
1:C:144:ASP:OD1	1:C:268:THR:HA	2.16	0.46
1:C:251:ASN:HD21	1:D:202:PRO:HG2	1.81	0.46
1:D:343:ASP:OD2	1:P:416:VAL:HG22	2.16	0.46
1:E:193:ASP:HB3	1:F:330:ARG:NH2	2.31	0.46
1:E:401:ASN:OD1	1:E:580:ARG:NH1	2.49	0.46
1:F:153:LYS:HG2	1:F:170:ASN:HD22	1.80	0.46
1:F:251:ASN:HD21	1:R:202:PRO:HG2	1.81	0.46
1:G:277:ARG:HB3	1:G:584:ARG:HH12	1.80	0.46
1:J:202:PRO:HG2	1:1:251:ASN:HD21	1.81	0.46
1:K:386:TRP:HH2	1:L:510:PRO:O	1.99	0.46
1:N:281:THR:H	1:N:401:ASN:ND2	2.12	0.46
1:O:290:GLN:HE21	1:g:212:ARG:CZ	2.29	0.46
1:P:59:GLY:O	1:P:535:LYS:HA	2.16	0.46
1:Q:85:ARG:HB3	1:Q:105:GLU:OE1	2.15	0.46
1:U:128:TRP:CE2	1:U:462:TYR:HB2	2.50	0.46
1:U:144:ASP:OD1	1:U:268:THR:HA	2.15	0.46
1:V:330:ARG:NH2	1:5:193:ASP:HB3	2.31	0.46
1:W:59:GLY:O	1:W:535:LYS:HA	2.16	0.46
1:X:96:SER:HB2	1:X:225:TYR:C	2.41	0.46
1:X:179:ALA:HB2	1:X:255:ILE:HG13	1.97	0.46
1:Y:144:ASP:OD1	1:Y:268:THR:HA	2.15	0.46
1:Z:277:ARG:HB3	1:Z:584:ARG:HH12	1.80	0.46
1:1:179:ALA:HB2	1:1:255:ILE:HG13	1.97	0.46
1:1:277:ARG:HB3	1:1:584:ARG:HH12	1.80	0.46
1:5:88:ASN:O	1:5:92:THR:OG1	2.32	0.46
1:6:88:ASN:O	1:6:92:THR:OG1	2.32	0.46
1:b:128:TRP:CE2	1:b:462:TYR:HB2	2.50	0.46
1:b:179:ALA:HB2	1:b:255:ILE:HG13	1.97	0.46
1:b:202:PRO:HG2	1:c:251:ASN:HD21	1.81	0.46
1:d:144:ASP:OD1	1:d:268:THR:HA	2.16	0.46
1:d:330:ARG:NH2	1:e:193:ASP:HB3	2.31	0.46
1:e:59:GLY:O	1:e:535:LYS:HA	2.16	0.46
1:i:179:ALA:HB2	1:i:255:ILE:HG13	1.97	0.46
1:j:88:ASN:O	1:j:92:THR:OG1	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:251:ASN:HD21	1:z:202:PRO:HG2	1.81	0.46
1:k:128:TRP:CE2	1:k:462:TYR:HB2	2.50	0.46
1:k:153:LYS:HG2	1:k:170:ASN:HD22	1.80	0.46
1:l:330:ARG:NH2	1:m:193:ASP:HB3	2.31	0.46
1:o:330:ARG:NH2	1:p:193:ASP:HB3	2.31	0.46
1:p:251:ASN:HD21	1:u:202:PRO:HG2	1.81	0.46
1:q:212:ARG:CZ	1:s:290:GLN:HE21	2.29	0.46
1:v:59:GLY:O	1:v:535:LYS:HA	2.16	0.46
1:v:277:ARG:HB3	1:v:584:ARG:HH12	1.80	0.46
1:w:59:GLY:O	1:w:535:LYS:HA	2.16	0.46
1:w:202:PRO:HG2	1:8:251:ASN:HD21	1.81	0.46
1:y:59:GLY:O	1:y:535:LYS:HA	2.16	0.46
1:z:314:SER:HB2	1:7:392:LYS:NZ	2.31	0.46
1:7:317:THR:HG21	1:7:322[B]:ARG:HH21	1.80	0.46
1:7:345:PHE:CE1	1:7:354:LYS:HB2	2.50	0.46
1:B:87:HIS:CD2	1:B:219:ARG:HH12	2.33	0.46
1:B:144:ASP:OD1	1:B:268:THR:HA	2.15	0.46
1:C:193:ASP:HB3	1:M:330:ARG:NH2	2.31	0.46
1:E:153:LYS:HG2	1:E:170:ASN:HD22	1.80	0.46
1:G:179:ALA:HB2	1:G:255:ILE:HG13	1.97	0.46
1:G:290:GLN:HE21	1:I:212:ARG:CZ	2.29	0.46
1:G:401:ASN:OD1	1:G:580:ARG:NH1	2.49	0.46
1:H:59:GLY:O	1:H:535:LYS:HA	2.16	0.46
1:J:568:ALA:HB3	1:K:301:ASP:HA	1.98	0.46
1:K:88:ASN:O	1:K:92:THR:OG1	2.32	0.46
1:K:153:LYS:HG2	1:K:170:ASN:HD22	1.80	0.46
1:N:301:ASP:HA	1:O:568:ALA:HB3	1.97	0.46
1:O:96:SER:HB2	1:O:225:TYR:C	2.41	0.46
1:O:212:ARG:CZ	1:h:290:GLN:HE21	2.29	0.46
1:O:251:ASN:HD21	1:4:202:PRO:HG2	1.81	0.46
1:P:153:LYS:HG2	1:P:170:ASN:HD22	1.80	0.46
1:R:193:ASP:HB3	1:U:330:ARG:NH2	2.31	0.46
1:S:59:GLY:O	1:S:535:LYS:HA	2.16	0.46
1:S:290:GLN:HE21	1:U:212:ARG:CZ	2.29	0.46
1:T:96:SER:HB2	1:T:225:TYR:C	2.41	0.46
1:W:96:SER:HB2	1:W:225:TYR:C	2.41	0.46
1:W:314:SER:HB2	1:Y:392:LYS:NZ	2.31	0.46
1:X:212:ARG:CZ	1:5:290:GLN:HE21	2.29	0.46
1:Z:96:SER:HB2	1:Z:225:TYR:C	2.41	0.46
1:2:202:PRO:HG2	1:i:251:ASN:HD21	1.81	0.46
1:3:153:LYS:HG2	1:3:170:ASN:HD22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:277:ARG:HB3	1:3:584:ARG:HH12	1.80	0.46
1:4:290:GLN:HE21	1:f:212:ARG:CZ	2.29	0.46
1:5:144:ASP:OD1	1:5:268:THR:HA	2.15	0.46
1:5:153:LYS:HG2	1:5:170:ASN:HD22	1.80	0.46
1:6:317:THR:HG21	1:6:322[B]:ARG:HH21	1.81	0.46
1:a:301:ASP:HA	1:t:568:ALA:HB3	1.97	0.46
1:b:96:SER:HB2	1:b:225:TYR:C	2.41	0.46
1:c:392:LYS:NZ	1:e:314:SER:HB2	2.31	0.46
1:d:251:ASN:HD21	1:f:202:PRO:HG2	1.81	0.46
1:f:96:SER:HB2	1:f:225:TYR:C	2.41	0.46
1:f:251:ASN:HD21	1:h:202:PRO:HG2	1.81	0.46
1:h:128:TRP:CE2	1:h:462:TYR:HB2	2.50	0.46
1:i:330:ARG:NH2	1:j:193:ASP:HB3	2.31	0.46
1:j:144:ASP:OD1	1:j:268:THR:HA	2.16	0.46
1:k:330:ARG:NH2	1:l:193:ASP:HB3	2.31	0.46
1:n:59:GLY:O	1:n:535:LYS:HA	2.16	0.46
1:n:401:ASN:OD1	1:n:580:ARG:NH1	2.49	0.46
1:x:96:SER:HB2	1:x:225:TYR:C	2.41	0.46
1:x:189:THR:N	1:x:495:GLN:HE22	2.14	0.46
1:y:153:LYS:HG2	1:y:170:ASN:HD22	1.80	0.46
1:7:59:GLY:O	1:7:535:LYS:HA	2.16	0.46
1:7:281:THR:H	1:7:401:ASN:ND2	2.12	0.46
1:7:301:ASP:HA	1:8:568:ALA:HB3	1.97	0.46
1:7:401:ASN:OD1	1:7:580:ARG:NH1	2.49	0.46
1:8:96:SER:HB2	1:8:225:TYR:C	2.41	0.46
1:A:153:LYS:HG2	1:A:170:ASN:HD22	1.80	0.45
1:B:330:ARG:NH2	1:J:193:ASP:HB3	2.31	0.45
1:C:88:ASN:O	1:C:92:THR:OG1	2.32	0.45
1:D:301:ASP:HA	1:M:568:ALA:HB3	1.98	0.45
1:D:558:TYR:OH	1:D:576:PRO:O	2.20	0.45
1:G:330:ARG:NH2	1:I:193:ASP:HB3	2.31	0.45
1:H:100:MET:HA	1:Y:326:THR:HG21	1.98	0.45
1:H:401:ASN:OD1	1:H:580:ARG:NH1	2.49	0.45
1:H:449:TYR:CE1	1:Y:451:PRO:HG3	2.51	0.45
1:H:451:PRO:HG3	1:W:449:TYR:CE1	2.51	0.45
1:I:401:ASN:OD1	1:I:580:ARG:NH1	2.49	0.45
1:J:330:ARG:NH2	1:L:193:ASP:HB3	2.31	0.45
1:N:59:GLY:O	1:N:535:LYS:HA	2.16	0.45
1:N:277:ARG:HD3	1:N:584:ARG:NH1	2.30	0.45
1:N:401:ASN:OD1	1:N:580:ARG:NH1	2.49	0.45
1:Q:189:THR:N	1:Q:495:GLN:HE22	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:260:THR:HG22	1:4:259:ARG:HH12	1.81	0.45
1:S:401:ASN:OD1	1:S:580:ARG:NH1	2.49	0.45
1:U:568:ALA:HB3	1:V:301:ASP:HA	1.97	0.45
1:V:128:TRP:CE2	1:V:462:TYR:HB2	2.50	0.45
1:Y:317:THR:HG21	1:Y:322[B]:ARG:HH21	1.81	0.45
1:Z:193:ASP:HB3	1:w:330:ARG:NH2	2.31	0.45
1:3:259:ARG:HH12	1:m:260:THR:HG22	1.81	0.45
1:4:59:GLY:O	1:4:535:LYS:HA	2.16	0.45
1:5:179:ALA:HB2	1:5:255:ILE:HG13	1.97	0.45
1:5:401:ASN:OD1	1:5:580:ARG:NH1	2.49	0.45
1:6:144:ASP:OD1	1:6:268:THR:HA	2.15	0.45
1:6:179:ALA:HB2	1:6:255:ILE:HG13	1.97	0.45
1:b:88:ASN:O	1:b:92:THR:OG1	2.32	0.45
1:b:260:THR:HG22	1:c:259:ARG:HH12	1.81	0.45
1:d:401:ASN:OD1	1:d:580:ARG:NH1	2.49	0.45
1:d:416:VAL:HG22	1:e:343:ASP:OD2	2.16	0.45
1:e:96:SER:HB2	1:e:225:TYR:C	2.41	0.45
1:g:88:ASN:O	1:g:92:THR:OG1	2.32	0.45
1:h:179:ALA:HB2	1:h:255:ILE:HG13	1.97	0.45
1:h:259:ARG:HH12	1:l:260:THR:HG22	1.81	0.45
1:h:345:PHE:CE1	1:h:354:LYS:HB2	2.50	0.45
1:i:568:ALA:HB3	1:z:301:ASP:HA	1.98	0.45
1:k:87:HIS:CD2	1:k:219:ARG:HH12	2.33	0.45
1:l:140:LEU:HA	1:l:532:LEU:HD23	1.99	0.45
1:n:202:PRO:HG2	1:z:251:ASN:HD21	1.80	0.45
1:p:153:LYS:HG2	1:p:170:ASN:HD22	1.80	0.45
1:q:179:ALA:HB2	1:q:255:ILE:HG13	1.97	0.45
1:r:153:LYS:HG2	1:r:170:ASN:HD22	1.80	0.45
1:r:401:ASN:OD1	1:r:580:ARG:NH1	2.49	0.45
1:s:153:LYS:HG2	1:s:170:ASN:HD22	1.80	0.45
1:t:330:ARG:NH2	1:u:193:ASP:HB3	2.31	0.45
1:u:144:ASP:OD1	1:u:268:THR:HA	2.16	0.45
1:v:401:ASN:OD1	1:v:580:ARG:NH1	2.49	0.45
1:x:281:THR:H	1:x:401:ASN:ND2	2.12	0.45
1:y:416:VAL:HG22	1:z:343:ASP:OD2	2.16	0.45
1:7:277:ARG:HD3	1:7:584:ARG:NH1	2.30	0.45
1:B:317:THR:HG21	1:B:322[B]:ARG:HH21	1.80	0.45
1:C:140:LEU:HA	1:C:532:LEU:HD23	1.99	0.45
1:C:259:ARG:HH12	1:D:260:THR:HG22	1.81	0.45
1:E:59:GLY:O	1:E:535:LYS:HA	2.16	0.45
1:F:202:PRO:HG2	1:G:251:ASN:HD21	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:96:SER:HB2	1:J:225:TYR:C	2.41	0.45
1:J:140:LEU:HA	1:J:532:LEU:HD23	1.99	0.45
1:J:189:THR:N	1:J:495:GLN:HE22	2.14	0.45
1:J:260:THR:HG22	1:1:259:ARG:HH12	1.81	0.45
1:K:343:ASP:OD2	1:8:416:VAL:HG22	2.17	0.45
1:K:347:THR:HG21	1:8:410:ASN:CB	2.47	0.45
1:L:189:THR:N	1:L:495:GLN:HE22	2.14	0.45
1:M:260:THR:HG22	1:N:259:ARG:HH12	1.81	0.45
1:N:85:ARG:HB3	1:N:105:GLU:OE1	2.15	0.45
1:R:144:ASP:OD1	1:R:268:THR:HA	2.15	0.45
1:S:345:PHE:CE1	1:S:354:LYS:HB2	2.50	0.45
1:T:189:THR:N	1:T:495:GLN:HE22	2.14	0.45
1:U:179:ALA:HB2	1:U:255:ILE:HG13	1.97	0.45
1:Y:401:ASN:OD1	1:Y:580:ARG:NH1	2.49	0.45
1:Z:128:TRP:CE2	1:Z:462:TYR:HB2	2.50	0.45
1:Z:179:ALA:HB2	1:Z:255:ILE:HG13	1.97	0.45
1:Z:347:THR:HG21	1:w:410:ASN:CB	2.47	0.45
1:Z:410:ASN:CB	1:x:347:THR:HG21	2.47	0.45
1:1:128:TRP:CE2	1:1:462:TYR:HB2	2.50	0.45
1:4:96:SER:HB2	1:4:225:TYR:C	2.41	0.45
1:6:401:ASN:OD1	1:6:580:ARG:NH1	2.49	0.45
1:a:401:ASN:OD1	1:a:580:ARG:NH1	2.49	0.45
1:f:179:ALA:HB2	1:f:255:ILE:HG13	1.97	0.45
1:g:410:ASN:CB	1:h:347:THR:HG21	2.47	0.45
1:h:96:SER:HB2	1:h:225:TYR:C	2.41	0.45
1:i:59:GLY:O	1:i:535:LYS:HA	2.16	0.45
1:j:568:ALA:HB3	1:m:301:ASP:HA	1.97	0.45
1:k:144:ASP:OD1	1:k:268:THR:HA	2.15	0.45
1:m:189:THR:N	1:m:495:GLN:HE22	2.14	0.45
1:n:153:LYS:HG2	1:n:170:ASN:HD22	1.80	0.45
1:q:281:THR:H	1:q:401:ASN:ND2	2.11	0.45
1:q:401:ASN:OD1	1:q:580:ARG:NH1	2.49	0.45
1:v:345:PHE:CE1	1:v:354:LYS:HB2	2.50	0.45
1:w:96:SER:HB2	1:w:225:TYR:C	2.41	0.45
1:7:85:ARG:HB3	1:7:105:GLU:OE1	2.15	0.45
1:A:401:ASN:OD1	1:A:580:ARG:NH1	2.49	0.45
1:B:401:ASN:OD1	1:B:580:ARG:NH1	2.49	0.45
1:C:568:ALA:HB3	1:L:301:ASP:HA	1.97	0.45
1:D:179:ALA:HB2	1:D:255:ILE:HG13	1.97	0.45
1:E:96:SER:HB2	1:E:225:TYR:C	2.41	0.45
1:F:347:THR:HG21	1:Q:410:ASN:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:281:THR:H	1:G:401:ASN:ND2	2.11	0.45
1:I:202:PRO:HG2	1:J:251:ASN:HD21	1.81	0.45
1:M:59:GLY:O	1:M:535:LYS:HA	2.16	0.45
1:M:212:ARG:CZ	1:2:290:GLN:HE21	2.29	0.45
1:N:96:SER:HB2	1:N:225:TYR:C	2.41	0.45
1:N:330:ARG:NH2	1:P:193:ASP:HB3	2.31	0.45
1:N:410:ASN:CB	1:P:347:THR:HG21	2.47	0.45
1:O:202:PRO:HG2	1:P:251:ASN:HD21	1.81	0.45
1:O:330:ARG:NH2	1:g:193:ASP:HB3	2.31	0.45
1:O:401:ASN:OD1	1:O:580:ARG:NH1	2.49	0.45
1:T:281:THR:H	1:T:401:ASN:ND2	2.11	0.45
1:V:212:ARG:CZ	1:X:290:GLN:HE21	2.29	0.45
1:V:401:ASN:OD1	1:V:580:ARG:NH1	2.49	0.45
1:W:330:ARG:NH2	1:Y:193:ASP:HB3	2.31	0.45
1:X:401:ASN:OD1	1:X:580:ARG:NH1	2.49	0.45
1:Y:140:LEU:HA	1:Y:532:LEU:HD23	1.99	0.45
1:Z:233:THR:HG23	1:Z:234:ASP:N	2.32	0.45
1:Z:251:ASN:HD21	1:1:202:PRO:HG2	1.81	0.45
1:1:96:SER:HB2	1:1:225:TYR:C	2.41	0.45
1:1:345:PHE:CE1	1:1:354:LYS:HB2	2.50	0.45
1:3:290:GLN:HE21	1:i:212:ARG:CZ	2.29	0.45
1:3:330:ARG:NH2	1:i:193:ASP:HB3	2.31	0.45
1:5:233:THR:HG23	1:5:234:ASP:N	2.32	0.45
1:6:96:SER:HB2	1:6:225:TYR:C	2.41	0.45
1:a:128:TRP:CE2	1:a:462:TYR:HB2	2.50	0.45
1:b:401:ASN:OD1	1:b:580:ARG:NH1	2.49	0.45
1:c:140:LEU:HA	1:c:532:LEU:HD23	1.99	0.45
1:c:233:THR:HG23	1:c:234:ASP:N	2.32	0.45
1:c:343:ASP:OD2	1:e:416:VAL:HG22	2.17	0.45
1:c:401:ASN:OD1	1:c:580:ARG:NH1	2.49	0.45
1:f:128:TRP:CE2	1:f:462:TYR:HB2	2.50	0.45
1:f:233:THR:HG23	1:f:234:ASP:N	2.32	0.45
1:f:259:ARG:HH12	1:h:260:THR:HG22	1.81	0.45
1:g:59:GLY:O	1:g:535:LYS:HA	2.16	0.45
1:i:260:THR:HG22	1:7:259:ARG:HH12	1.82	0.45
1:l:96:SER:HB2	1:l:225:TYR:C	2.41	0.45
1:l:189:THR:N	1:l:495:GLN:HE22	2.14	0.45
1:n:96:SER:HB2	1:n:225:TYR:C	2.41	0.45
1:n:384:GLN:O	1:n:573:THR:OG1	2.27	0.45
1:o:144:ASP:OD1	1:o:268:THR:HA	2.15	0.45
1:p:281:THR:H	1:p:401:ASN:ND2	2.12	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:96:SER:HB2	1:s:225:TYR:C	2.41	0.45
1:t:96:SER:HB2	1:t:225:TYR:C	2.41	0.45
1:t:179:ALA:HB2	1:t:255:ILE:HG13	1.97	0.45
1:u:140:LEU:HA	1:u:532:LEU:HD23	1.99	0.45
1:x:87:HIS:CD2	1:x:219:ARG:HH12	2.33	0.45
1:y:251:ASN:HD21	1:8:202:PRO:HG2	1.81	0.45
1:7:96:SER:HB2	1:7:225:TYR:C	2.41	0.45
1:8:401:ASN:OD1	1:8:580:ARG:NH1	2.49	0.45
1:A:96:SER:HB2	1:A:225:TYR:C	2.41	0.45
1:D:140:LEU:HA	1:D:532:LEU:HD23	1.99	0.45
1:D:251:ASN:HD21	1:E:202:PRO:HG2	1.81	0.45
1:E:233:THR:HG23	1:E:234:ASP:N	2.32	0.45
1:I:153:LYS:HG2	1:I:170:ASN:HD22	1.80	0.45
1:K:140:LEU:HA	1:K:532:LEU:HD23	1.99	0.45
1:K:260:THR:HG22	1:L:259:ARG:HH12	1.81	0.45
1:M:193:ASP:HB3	1:2:330:ARG:NH2	2.31	0.45
1:O:193:ASP:HB3	1:h:330:ARG:NH2	2.31	0.45
1:O:347:THR:HG21	1:h:410:ASN:CB	2.47	0.45
1:P:96:SER:HB2	1:P:225:TYR:C	2.41	0.45
1:Q:144:ASP:OD1	1:Q:268:THR:HA	2.15	0.45
1:R:140:LEU:HA	1:R:532:LEU:HD23	1.99	0.45
1:S:128:TRP:CE2	1:S:462:TYR:HB2	2.50	0.45
1:S:189:THR:N	1:S:495:GLN:HE22	2.14	0.45
1:T:179:ALA:HB2	1:T:255:ILE:HG13	1.97	0.45
1:T:347:THR:HG21	1:f:410:ASN:CB	2.47	0.45
1:U:96:SER:HB2	1:U:225:TYR:C	2.41	0.45
1:V:233:THR:HG23	1:V:234:ASP:N	2.32	0.45
1:W:416:VAL:HG22	1:Y:343:ASP:OD2	2.17	0.45
1:X:59:GLY:O	1:X:535:LYS:HA	2.16	0.45
1:X:88:ASN:O	1:X:92:THR:OG1	2.32	0.45
1:X:259:ARG:HH12	1:6:260:THR:HG22	1.81	0.45
1:Y:233:THR:HG23	1:Y:234:ASP:N	2.32	0.45
1:Z:403:ASP:OD1	1:Z:404:SER:N	2.50	0.45
1:1:410:ASN:CB	1:8:347:THR:HG21	2.47	0.45
1:3:96:SER:HB2	1:3:225:TYR:C	2.41	0.45
1:4:330:ARG:NH2	1:f:193:ASP:HB3	2.31	0.45
1:4:410:ASN:CB	1:f:347:THR:HG21	2.47	0.45
1:4:451:PRO:HG3	1:f:449:TYR:CE1	2.52	0.45
1:5:260:THR:HG22	1:b:259:ARG:HH12	1.81	0.45
1:6:128:TRP:CE2	1:6:462:TYR:HB2	2.50	0.45
1:6:233:THR:HG23	1:6:234:ASP:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:193:ASP:HB3	1:b:330:ARG:NH2	2.31	0.45
1:a:233:THR:HG23	1:a:234:ASP:N	2.32	0.45
1:b:144:ASP:OD1	1:b:268:THR:HA	2.15	0.45
1:b:568:ALA:HB3	1:e:301:ASP:HA	1.98	0.45
1:c:179:ALA:HB2	1:c:255:ILE:HG13	1.97	0.45
1:e:259:ARG:HH12	1:q:260:THR:HG22	1.81	0.45
1:e:403:ASP:OD1	1:e:404:SER:N	2.50	0.45
1:h:401:ASN:OD1	1:h:580:ARG:NH1	2.49	0.45
1:i:153:LYS:HG2	1:i:170:ASN:HD22	1.80	0.45
1:i:290:GLN:HE21	1:j:212:ARG:CZ	2.29	0.45
1:j:96:SER:HB2	1:j:225:TYR:C	2.41	0.45
1:j:140:LEU:HA	1:j:532:LEU:HD23	1.99	0.45
1:k:281:THR:H	1:k:401:ASN:ND2	2.12	0.45
1:k:401:ASN:OD1	1:k:580:ARG:NH1	2.49	0.45
1:l:410:ASN:CB	1:m:347:THR:HG21	2.47	0.45
1:n:140:LEU:HA	1:n:532:LEU:HD23	1.99	0.45
1:n:233:THR:HG23	1:n:234:ASP:N	2.32	0.45
1:n:259:ARG:HH12	1:s:260:THR:HG22	1.81	0.45
1:n:330:ARG:NH2	1:o:193:ASP:HB3	2.31	0.45
1:o:259:ARG:HH12	1:y:260:THR:HG22	1.81	0.45
1:o:410:ASN:CB	1:p:347:THR:HG21	2.47	0.45
1:p:96:SER:HB2	1:p:225:TYR:C	2.41	0.45
1:p:202:PRO:HG2	1:q:251:ASN:HD21	1.81	0.45
1:q:140:LEU:HA	1:q:532:LEU:HD23	1.99	0.45
1:s:401:ASN:OD1	1:s:580:ARG:NH1	2.49	0.45
1:t:314:SER:HB2	1:u:392:LYS:NZ	2.32	0.45
1:u:233:THR:HG23	1:u:234:ASP:N	2.32	0.45
1:v:179:ALA:HB2	1:v:255:ILE:HG13	1.97	0.45
1:y:193:ASP:HB3	1:7:330:ARG:NH2	2.31	0.45
1:y:347:THR:HG21	1:7:410:ASN:CB	2.47	0.45
1:z:140:LEU:HA	1:z:532:LEU:HD23	1.99	0.45
1:z:179:ALA:HB2	1:z:255:ILE:HG13	1.97	0.45
1:z:416:VAL:HG22	1:7:343:ASP:OD2	2.17	0.45
1:A:179:ALA:HB2	1:A:255:ILE:HG13	1.97	0.45
1:A:233:THR:HG23	1:A:234:ASP:N	2.32	0.45
1:B:179:ALA:HB2	1:B:255:ILE:HG13	1.97	0.45
1:B:410:ASN:CB	1:J:347:THR:HG21	2.47	0.45
1:C:96:SER:HB2	1:C:225:TYR:C	2.41	0.45
1:C:179:ALA:HB2	1:C:255:ILE:HG13	1.97	0.45
1:C:212:ARG:CZ	1:M:290:GLN:HE21	2.29	0.45
1:D:330:ARG:NH2	1:N:193:ASP:HB3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:416:VAL:HG22	1:N:343:ASP:OD2	2.17	0.45
1:E:140:LEU:HA	1:E:532:LEU:HD23	1.99	0.45
1:E:144:ASP:OD1	1:E:268:THR:HA	2.16	0.45
1:E:327:GLU:OE2	1:Q:214:TYR:OH	2.22	0.45
1:F:260:THR:HG22	1:G:259:ARG:HH12	1.81	0.45
1:F:281:THR:H	1:F:401:ASN:ND2	2.12	0.45
1:G:140:LEU:HA	1:G:532:LEU:HD23	1.99	0.45
1:G:233:THR:HG23	1:G:234:ASP:N	2.32	0.45
1:K:59:GLY:O	1:K:535:LYS:HA	2.16	0.45
1:K:96:SER:HB2	1:K:225:TYR:C	2.41	0.45
1:L:144:ASP:OD1	1:L:268:THR:HA	2.15	0.45
1:L:202:PRO:HG2	1:2:251:ASN:HD21	1.81	0.45
1:P:260:THR:HG22	1:Q:259:ARG:HH12	1.81	0.45
1:R:96:SER:HB2	1:R:225:TYR:C	2.41	0.45
1:R:233:THR:HG23	1:R:234:ASP:N	2.32	0.45
1:R:259:ARG:HH12	1:V:260:THR:HG22	1.81	0.45
1:R:392:LYS:NZ	1:U:314:SER:HB2	2.32	0.45
1:S:179:ALA:HB2	1:S:255:ILE:HG13	1.97	0.45
1:S:403:ASP:OD1	1:S:404:SER:N	2.50	0.45
1:T:449:TYR:CE1	1:f:451:PRO:HG3	2.52	0.45
1:U:59:GLY:O	1:U:535:LYS:HA	2.16	0.45
1:U:401:ASN:OD1	1:U:580:ARG:NH1	2.49	0.45
1:W:403:ASP:OD1	1:W:404:SER:N	2.50	0.45
1:X:140:LEU:HA	1:X:532:LEU:HD23	1.99	0.45
1:Y:179:ALA:HB2	1:Y:255:ILE:HG13	1.97	0.45
1:Z:140:LEU:HA	1:Z:532:LEU:HD23	1.99	0.45
1:Z:259:ARG:HH12	1:1:260:THR:HG22	1.81	0.45
1:1:330:ARG:NH2	1:8:193:ASP:HB3	2.31	0.45
1:1:401:ASN:OD1	1:1:580:ARG:NH1	2.49	0.45
1:5:96:SER:HB2	1:5:225:TYR:C	2.41	0.45
1:5:128:TRP:CE2	1:5:462:TYR:HB2	2.50	0.45
1:5:202:PRO:HG2	1:b:251:ASN:HD21	1.81	0.45
1:b:140:LEU:HA	1:b:532:LEU:HD23	1.99	0.45
1:c:410:ASN:CB	1:d:347:THR:HG21	2.47	0.45
1:f:140:LEU:HA	1:f:532:LEU:HD23	1.99	0.45
1:f:403:ASP:OD1	1:f:404:SER:N	2.50	0.45
1:g:96:SER:HB2	1:g:225:TYR:C	2.41	0.45
1:g:140:LEU:HA	1:g:532:LEU:HD23	1.99	0.45
1:g:260:THR:HG22	1:m:259:ARG:HH12	1.81	0.45
1:j:260:THR:HG22	1:k:259:ARG:HH12	1.81	0.45
1:k:140:LEU:HA	1:k:532:LEU:HD23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:179:ALA:HB2	1:k:255:ILE:HG13	1.97	0.45
1:k:410:ASN:CB	1:l:347:THR:HG21	2.47	0.45
1:n:327:GLU:OE2	1:o:214:TYR:OH	2.22	0.45
1:r:179:ALA:HB2	1:r:255:ILE:HG13	1.97	0.45
1:s:233:THR:HG23	1:s:234:ASP:N	2.32	0.45
1:t:59:GLY:O	1:t:535:LYS:HA	2.16	0.45
1:t:401:ASN:OD1	1:t:580:ARG:NH1	2.49	0.45
1:u:330:ARG:NH2	1:v:193:ASP:HB3	2.31	0.45
1:w:88:ASN:O	1:w:92:THR:OG1	2.32	0.45
1:x:179:ALA:HB2	1:x:255:ILE:HG13	1.97	0.45
1:z:330:ARG:NH2	1:7:193:ASP:HB3	2.32	0.45
1:A:260:THR:HG22	1:E:259:ARG:HH12	1.81	0.45
1:B:140:LEU:HA	1:B:532:LEU:HD23	1.99	0.45
1:B:259:ARG:HH12	1:C:260:THR:HG22	1.81	0.45
1:B:281:THR:H	1:B:401:ASN:ND2	2.11	0.45
1:C:317:THR:HG21	1:C:322[B]:ARG:HH21	1.81	0.45
1:D:347:THR:HG21	1:P:410:ASN:CB	2.46	0.45
1:E:330:ARG:NH2	1:Q:193:ASP:HB3	2.32	0.45
1:E:338:PHE:CD2	1:E:453:THR:HG21	2.52	0.45
1:E:451:PRO:HG3	1:Q:449:TYR:CE1	2.52	0.45
1:F:96:SER:HB2	1:F:225:TYR:C	2.41	0.45
1:G:202:PRO:HG2	1:W:251:ASN:HD21	1.82	0.45
1:I:179:ALA:HB2	1:I:255:ILE:HG13	1.97	0.45
1:J:410:ASN:CB	1:L:347:THR:HG21	2.47	0.45
1:K:193:ASP:HB3	1:8:330:ARG:NH2	2.32	0.45
1:K:259:ARG:HH12	1:7:260:THR:HG22	1.81	0.45
1:L:96:SER:HB2	1:L:225:TYR:C	2.41	0.45
1:L:260:THR:HG22	1:2:259:ARG:HH12	1.81	0.45
1:M:96:SER:HB2	1:M:225:TYR:C	2.41	0.45
1:O:179:ALA:HB2	1:O:255:ILE:HG13	1.97	0.45
1:O:259:ARG:HH12	1:4:260:THR:HG22	1.81	0.45
1:P:179:ALA:HB2	1:P:255:ILE:HG13	1.97	0.45
1:P:202:PRO:HG2	1:Q:251:ASN:HD21	1.80	0.45
1:Q:401:ASN:OD1	1:Q:580:ARG:NH1	2.49	0.45
1:R:314:SER:HB2	1:S:392:LYS:NZ	2.32	0.45
1:S:233:THR:HG23	1:S:234:ASP:N	2.32	0.45
1:S:338:PHE:CD2	1:S:453:THR:HG21	2.52	0.45
1:T:87:HIS:CD2	1:T:219:ARG:HH12	2.33	0.45
1:T:212:ARG:CZ	1:f:290:GLN:HE21	2.29	0.45
1:T:338:PHE:CD2	1:T:453:THR:HG21	2.52	0.45
1:T:410:ASN:CB	1:4:347:THR:HG21	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:193:ASP:HB3	1:X:330:ARG:NH2	2.31	0.45
1:V:290:GLN:HE21	1:5:212:ARG:CZ	2.29	0.45
1:V:314:SER:HB2	1:5:392:LYS:NZ	2.32	0.45
1:X:144:ASP:OD1	1:X:268:THR:HA	2.16	0.45
1:Z:290:GLN:HE21	1:x:212:ARG:CZ	2.29	0.45
1:Z:401:ASN:OD1	1:Z:580:ARG:NH1	2.49	0.45
1:2:96:SER:HB2	1:2:225:TYR:C	2.41	0.45
1:4:88:ASN:O	1:4:92:THR:OG1	2.32	0.45
1:b:59:GLY:O	1:b:535:LYS:HA	2.16	0.45
1:g:290:GLN:HE21	1:h:212:ARG:CZ	2.29	0.45
1:g:330:ARG:NH2	1:h:193:ASP:HB3	2.31	0.45
1:i:96:SER:HB2	1:i:225:TYR:C	2.41	0.45
1:i:202:PRO:HG2	1:7:251:ASN:HD21	1.81	0.45
1:j:179:ALA:HB2	1:j:255:ILE:HG13	1.97	0.45
1:n:144:ASP:OD1	1:n:268:THR:HA	2.16	0.45
1:n:338:PHE:CD2	1:n:453:THR:HG21	2.52	0.45
1:o:401:ASN:OD1	1:o:580:ARG:NH1	2.49	0.45
1:q:233:THR:HG23	1:q:234:ASP:N	2.32	0.45
1:r:96:SER:HB2	1:r:225:TYR:C	2.41	0.45
1:s:179:ALA:HB2	1:s:255:ILE:HG13	1.97	0.45
1:v:128:TRP:CE2	1:v:462:TYR:HB2	2.50	0.45
1:v:189:THR:N	1:v:495:GLN:HE22	2.14	0.45
1:v:233:THR:HG23	1:v:234:ASP:N	2.32	0.45
1:v:403:ASP:OD1	1:v:404:SER:N	2.50	0.45
1:w:260:THR:HG22	1:8:259:ARG:HH12	1.81	0.45
1:w:277:ARG:HD3	1:w:584:ARG:NH1	2.30	0.45
1:x:338:PHE:CD2	1:x:453:THR:HG21	2.52	0.45
1:y:96:SER:HB2	1:y:225:TYR:C	2.41	0.45
1:y:179:ALA:HB2	1:y:255:ILE:HG13	1.97	0.45
1:A:403:ASP:OD1	1:A:404:SER:N	2.50	0.45
1:C:449:TYR:CE1	1:M:451:PRO:HG3	2.52	0.45
1:D:403:ASP:OD1	1:D:404:SER:N	2.50	0.45
1:G:260:THR:HG22	1:W:259:ARG:HH12	1.82	0.45
1:G:416:VAL:HG22	1:I:343:ASP:OD2	2.17	0.45
1:H:202:PRO:HG2	1:I:251:ASN:HD21	1.82	0.45
1:I:96:SER:HB2	1:I:225:TYR:C	2.41	0.45
1:I:144:ASP:OD1	1:I:268:THR:HA	2.16	0.45
1:K:212:ARG:CZ	1:8:290:GLN:HE21	2.29	0.45
1:K:416:VAL:HG22	1:1:343:ASP:OD2	2.17	0.45
1:M:153:LYS:HG2	1:M:170:ASN:HD22	1.80	0.45
1:N:233:THR:HG23	1:N:234:ASP:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:260:THR:HG22	1:g:259:ARG:HH12	1.81	0.45
1:O:410:ASN:CB	1:g:347:THR:HG21	2.47	0.45
1:Q:260:THR:HG22	1:S:259:ARG:HH12	1.81	0.45
1:R:330:ARG:NH2	1:S:193:ASP:HB3	2.31	0.45
1:S:330:ARG:NH2	1:U:193:ASP:HB3	2.31	0.45
1:T:233:THR:HG23	1:T:234:ASP:N	2.32	0.45
1:V:338:PHE:CD2	1:V:453:THR:HG21	2.52	0.45
1:W:189:THR:N	1:W:495:GLN:HE22	2.14	0.45
1:X:251:ASN:HD21	1:6:202:PRO:HG2	1.81	0.45
1:Z:451:PRO:HG3	1:x:449:TYR:CE1	2.52	0.45
1:3:251:ASN:HD21	1:m:202:PRO:HG2	1.81	0.45
1:3:401:ASN:OD1	1:3:580:ARG:NH1	2.49	0.45
1:4:277:ARG:HD3	1:4:584:ARG:NH1	2.30	0.45
1:5:403:ASP:OD1	1:5:404:SER:N	2.50	0.45
1:6:212:ARG:CZ	1:a:290:GLN:HE21	2.29	0.45
1:a:212:ARG:CZ	1:b:290:GLN:HE21	2.29	0.45
1:a:338:PHE:CD2	1:a:453:THR:HG21	2.52	0.45
1:c:96:SER:HB2	1:c:225:TYR:C	2.41	0.45
1:c:330:ARG:NH2	1:d:193:ASP:HB3	2.31	0.45
1:d:233:THR:HG23	1:d:234:ASP:N	2.32	0.45
1:e:338:PHE:CD2	1:e:453:THR:HG21	2.52	0.45
1:g:202:PRO:HG2	1:m:251:ASN:HD21	1.81	0.45
1:i:338:PHE:CD2	1:i:453:THR:HG21	2.52	0.45
1:l:251:ASN:HD21	1:r:202:PRO:HG2	1.81	0.45
1:m:96:SER:HB2	1:m:225:TYR:C	2.41	0.45
1:m:144:ASP:OD1	1:m:268:THR:HA	2.16	0.45
1:n:449:TYR:CE1	1:p:451:PRO:HG3	2.52	0.45
1:o:233:THR:HG23	1:o:234:ASP:N	2.32	0.45
1:q:59:GLY:O	1:q:535:LYS:HA	2.16	0.45
1:t:392:LYS:NZ	1:v:314:SER:HB2	2.32	0.45
1:v:338:PHE:CD2	1:v:453:THR:HG21	2.52	0.45
1:w:401:ASN:OD1	1:w:580:ARG:NH1	2.49	0.45
1:x:233:THR:HG23	1:x:234:ASP:N	2.32	0.45
1:y:410:ASN:CB	1:z:347:THR:HG21	2.46	0.45
1:7:233:THR:HG23	1:7:234:ASP:N	2.32	0.45
1:8:179:ALA:HB2	1:8:255:ILE:HG13	1.97	0.45
1:A:314:SER:HB2	1:G:392:LYS:NZ	2.32	0.45
1:A:338:PHE:CD2	1:A:453:THR:HG21	2.52	0.45
1:A:347:THR:HG21	1:I:410:ASN:CB	2.46	0.45
1:B:338:PHE:CD2	1:B:453:THR:HG21	2.52	0.45
1:C:347:THR:HG21	1:M:410:ASN:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:ASN:CB	1:2:347:THR:HG21	2.47	0.45
1:E:449:TYR:CE1	1:F:451:PRO:HG3	2.52	0.45
1:H:96:SER:HB2	1:H:225:TYR:C	2.41	0.45
1:M:202:PRO:HG2	1:N:251:ASN:HD21	1.81	0.45
1:M:259:ARG:HH12	1:3:260:THR:HG22	1.81	0.45
1:M:338:PHE:CD2	1:M:453:THR:HG21	2.52	0.45
1:M:449:TYR:CE1	1:2:451:PRO:HG3	2.52	0.45
1:O:384:GLN:O	1:O:573:THR:OG1	2.27	0.45
1:Q:233:THR:HG23	1:Q:234:ASP:N	2.32	0.45
1:S:451:PRO:HG3	1:U:449:TYR:CE1	2.52	0.45
1:W:338:PHE:CD2	1:W:453:THR:HG21	2.52	0.45
1:X:202:PRO:HG2	1:Y:251:ASN:HD21	1.82	0.45
1:X:403:ASP:OD1	1:X:404:SER:N	2.50	0.45
1:X:449:TYR:CE1	1:5:451:PRO:HG3	2.52	0.45
1:Z:449:TYR:CE1	1:w:451:PRO:HG3	2.52	0.45
1:2:260:THR:HG22	1:i:259:ARG:HH12	1.81	0.45
1:2:401:ASN:OD1	1:2:580:ARG:NH1	2.49	0.45
1:3:347:THR:HG21	1:j:410:ASN:CB	2.47	0.45
1:3:410:ASN:CB	1:i:347:THR:HG21	2.46	0.45
1:4:401:ASN:OD1	1:4:580:ARG:NH1	2.49	0.45
1:6:251:ASN:HD21	1:t:202:PRO:HG2	1.81	0.45
1:6:403:ASP:OD1	1:6:404:SER:N	2.50	0.45
1:a:260:THR:HG22	1:u:259:ARG:HH12	1.81	0.45
1:b:403:ASP:OD1	1:b:404:SER:N	2.50	0.45
1:e:189:THR:N	1:e:495:GLN:HE22	2.14	0.45
1:f:401:ASN:OD1	1:f:580:ARG:NH1	2.49	0.45
1:i:314:SER:HB2	1:j:392:LYS:NZ	2.32	0.45
1:i:410:ASN:CB	1:j:347:THR:HG21	2.47	0.45
1:j:189:THR:N	1:j:495:GLN:HE22	2.14	0.45
1:j:202:PRO:HG2	1:k:251:ASN:HD21	1.81	0.45
1:k:338:PHE:CD2	1:k:453:THR:HG21	2.52	0.45
1:n:451:PRO:HG3	1:o:449:TYR:CE1	2.52	0.45
1:o:251:ASN:HD21	1:y:202:PRO:HG2	1.81	0.45
1:p:401:ASN:OD1	1:p:580:ARG:NH1	2.49	0.45
1:q:330:ARG:NH2	1:r:193:ASP:HB3	2.32	0.45
1:q:338:PHE:CD2	1:q:453:THR:HG21	2.52	0.45
1:s:403:ASP:OD1	1:s:404:SER:N	2.50	0.45
1:u:96:SER:HB2	1:u:225:TYR:C	2.41	0.45
1:u:451:PRO:HG3	1:v:449:TYR:CE1	2.52	0.45
1:w:347:THR:HG21	1:x:410:ASN:CB	2.47	0.45
1:w:392:LYS:NZ	1:x:314:SER:HB2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:189:THR:N	1:y:495:GLN:HE22	2.14	0.45
1:z:403:ASP:OD1	1:z:404:SER:N	2.50	0.45
1:B:96:SER:HB2	1:B:225:TYR:C	2.41	0.45
1:B:449:TYR:CE1	1:L:451:PRO:HG3	2.52	0.45
1:C:189:THR:N	1:C:495:GLN:HE22	2.14	0.45
1:C:290:GLN:HE21	1:2:212:ARG:CZ	2.29	0.45
1:C:392:LYS:NZ	1:M:314:SER:HB2	2.32	0.45
1:C:403:ASP:OD1	1:C:404:SER:N	2.50	0.45
1:G:59:GLY:O	1:G:535:LYS:HA	2.16	0.45
1:G:338:PHE:CD2	1:G:453:THR:HG21	2.52	0.45
1:H:233:THR:HG23	1:H:234:ASP:N	2.32	0.45
1:H:416:VAL:HG22	1:W:343:ASP:OD2	2.17	0.45
1:J:314:SER:HB2	1:L:392:LYS:NZ	2.32	0.45
1:K:202:PRO:HG2	1:L:251:ASN:HD21	1.81	0.45
1:K:314:SER:HB2	1:1:392:LYS:NZ	2.31	0.45
1:K:403:ASP:OD1	1:K:404:SER:N	2.50	0.45
1:M:233:THR:HG23	1:M:234:ASP:N	2.32	0.45
1:M:347:THR:HG21	1:2:410:ASN:CB	2.46	0.45
1:O:314:SER:HB2	1:g:392:LYS:NZ	2.32	0.45
1:R:451:PRO:HG3	1:S:449:TYR:CE1	2.52	0.45
1:T:314:SER:HB2	1:4:392:LYS:NZ	2.32	0.45
1:U:202:PRO:HG2	1:5:251:ASN:HD21	1.81	0.45
1:U:281:THR:H	1:U:401:ASN:ND2	2.12	0.45
1:V:255:ILE:HD13	1:W:47:TYR:CD2	2.52	0.45
1:V:343:ASP:OD2	1:X:416:VAL:HG22	2.17	0.45
1:Y:403:ASP:OD1	1:Y:404:SER:N	2.50	0.45
1:Z:314:SER:HB2	1:x:392:LYS:NZ	2.32	0.45
1:Z:330:ARG:NH2	1:x:193:ASP:HB3	2.31	0.45
1:3:212:ARG:CZ	1:j:290:GLN:HE21	2.29	0.45
1:6:347:THR:HG21	1:a:410:ASN:CB	2.47	0.45
1:a:140:LEU:HA	1:a:532:LEU:HD23	1.99	0.45
1:a:259:ARG:HH12	1:e:260:THR:HG22	1.81	0.45
1:a:347:THR:HG21	1:b:410:ASN:CB	2.47	0.45
1:c:193:ASP:HB3	1:e:330:ARG:NH2	2.32	0.45
1:c:403:ASP:OD1	1:c:404:SER:N	2.50	0.45
1:d:96:SER:HB2	1:d:225:TYR:C	2.41	0.45
1:h:338:PHE:CD2	1:h:453:THR:HG21	2.52	0.45
1:h:403:ASP:OD1	1:h:404:SER:N	2.50	0.45
1:i:451:PRO:HG3	1:j:449:TYR:CE1	2.52	0.45
1:k:96:SER:HB2	1:k:225:TYR:C	2.41	0.45
1:k:260:THR:HG22	1:s:259:ARG:HH12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:416:VAL:HG22	1:o:343:ASP:OD2	2.17	0.45
1:o:96:SER:HB2	1:o:225:TYR:C	2.41	0.45
1:o:260:THR:HG22	1:v:259:ARG:HH12	1.81	0.45
1:o:314:SER:HB2	1:p:392:LYS:NZ	2.32	0.45
1:q:392:LYS:NZ	1:s:314:SER:HB2	2.32	0.45
1:r:144:ASP:OD1	1:r:268:THR:HA	2.15	0.45
1:s:338:PHE:CD2	1:s:453:THR:HG21	2.52	0.45
1:t:193:ASP:HB3	1:v:330:ARG:NH2	2.31	0.45
1:t:449:TYR:CE1	1:v:451:PRO:HG3	2.52	0.45
1:u:314:SER:HB2	1:v:392:LYS:NZ	2.32	0.45
1:u:410:ASN:CB	1:v:347:THR:HG21	2.47	0.45
1:w:449:TYR:CE1	1:x:451:PRO:HG3	2.52	0.45
1:y:314:SER:HB2	1:z:392:LYS:NZ	2.32	0.45
1:z:96:SER:HB2	1:z:225:TYR:C	2.41	0.45
1:8:384:GLN:O	1:8:573:THR:OG1	2.27	0.45
1:B:251:ASN:HD21	1:C:202:PRO:HG2	1.81	0.45
1:C:343:ASP:OD2	1:M:416:VAL:HG22	2.17	0.45
1:D:193:ASP:HB3	1:P:330:ARG:NH2	2.31	0.45
1:D:392:LYS:NZ	1:P:314:SER:HB2	2.32	0.45
1:E:347:THR:HG21	1:F:410:ASN:CB	2.47	0.45
1:E:416:VAL:HG22	1:Q:343:ASP:OD2	2.17	0.45
1:F:401:ASN:OD1	1:F:580:ARG:NH1	2.49	0.45
1:G:403:ASP:OD1	1:G:404:SER:N	2.50	0.45
1:N:202:PRO:HG2	1:g:251:ASN:HD21	1.81	0.45
1:O:416:VAL:HG22	1:g:343:ASP:OD2	2.17	0.45
1:P:189:THR:N	1:P:495:GLN:HE22	2.14	0.45
1:P:233:THR:HG23	1:P:234:ASP:N	2.32	0.45
1:R:403:ASP:OD1	1:R:404:SER:N	2.50	0.45
1:S:314:SER:HB2	1:U:392:LYS:NZ	2.32	0.45
1:T:251:ASN:HD21	1:c:202:PRO:HG2	1.81	0.45
1:T:392:LYS:NZ	1:f:314:SER:HB2	2.32	0.45
1:T:451:PRO:HG3	1:4:449:TYR:CE1	2.52	0.45
1:V:140:LEU:HA	1:V:532:LEU:HD23	1.99	0.45
1:V:347:THR:HG21	1:X:410:ASN:CB	2.47	0.45
1:V:451:PRO:HG3	1:5:449:TYR:CE1	2.52	0.45
1:X:338:PHE:CD2	1:X:453:THR:HG21	2.52	0.45
1:X:386:TRP:HH2	1:Y:510:PRO:O	2.00	0.45
1:Y:338:PHE:CD2	1:Y:453:THR:HG21	2.52	0.45
1:1:338:PHE:CD2	1:1:453:THR:HG21	2.52	0.45
1:1:403:ASP:OD1	1:1:404:SER:N	2.50	0.45
1:2:403:ASP:OD1	1:2:404:SER:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:403:ASP:OD1	1:3:404:SER:N	2.50	0.45
1:3:449:TYR:CE1	1:j:451:PRO:HG3	2.52	0.45
1:6:451:PRO:HG3	1:b:449:TYR:CE1	2.52	0.45
1:a:96:SER:HB2	1:a:225:TYR:C	2.41	0.45
1:a:343:ASP:OD2	1:b:416:VAL:HG22	2.17	0.45
1:b:338:PHE:CD2	1:b:453:THR:HG21	2.52	0.45
1:d:290:GLN:HE21	1:e:212:ARG:CZ	2.29	0.45
1:e:140:LEU:HA	1:e:532:LEU:HD23	1.99	0.45
1:g:403:ASP:OD1	1:g:404:SER:N	2.50	0.45
1:i:233:THR:HG23	1:i:234:ASP:N	2.32	0.45
1:i:416:VAL:HG22	1:j:343:ASP:OD2	2.17	0.45
1:j:403:ASP:OD1	1:j:404:SER:N	2.50	0.45
1:l:314:SER:HB2	1:m:392:LYS:NZ	2.32	0.45
1:n:347:THR:HG21	1:p:410:ASN:CB	2.47	0.45
1:o:416:VAL:HG22	1:p:343:ASP:OD2	2.17	0.45
1:q:314:SER:HB2	1:r:392:LYS:NZ	2.32	0.45
1:t:281:THR:H	1:t:401:ASN:ND2	2.11	0.45
1:y:233:THR:HG23	1:y:234:ASP:N	2.32	0.45
1:z:189:THR:N	1:z:495:GLN:HE22	2.14	0.45
1:z:401:ASN:OD1	1:z:580:ARG:NH1	2.49	0.45
1:A:251:ASN:HD21	1:B:202:PRO:HG2	1.81	0.44
1:A:259:ARG:HH12	1:B:260:THR:HG22	1.81	0.44
1:B:392:LYS:NZ	1:L:314:SER:HB2	2.32	0.44
1:D:401:ASN:OD1	1:D:580:ARG:NH1	2.49	0.44
1:E:314:SER:HB2	1:Q:392:LYS:NZ	2.32	0.44
1:E:568:ALA:HB3	1:P:301:ASP:HA	1.97	0.44
1:F:343:ASP:OD2	1:Q:416:VAL:HG22	2.17	0.44
1:F:392:LYS:NZ	1:Q:314:SER:HB2	2.32	0.44
1:G:96:SER:HB2	1:G:225:TYR:C	2.41	0.44
1:H:260:THR:HG22	1:I:259:ARG:HH12	1.82	0.44
1:L:233:THR:HG23	1:L:234:ASP:N	2.32	0.44
1:L:281:THR:H	1:L:401:ASN:ND2	2.11	0.44
1:N:451:PRO:HG3	1:P:449:TYR:CE1	2.52	0.44
1:O:449:TYR:CE1	1:h:451:PRO:HG3	2.52	0.44
1:Q:96:SER:HB2	1:Q:225:TYR:C	2.41	0.44
1:R:410:ASN:CB	1:S:347:THR:HG21	2.47	0.44
1:S:96:SER:HB2	1:S:225:TYR:C	2.41	0.44
1:U:403:ASP:OD1	1:U:404:SER:N	2.50	0.44
1:X:47:TYR:CD2	1:Y:255:ILE:HD13	2.52	0.44
1:Y:96:SER:HB2	1:Y:225:TYR:C	2.41	0.44
1:3:140:LEU:HA	1:3:532:LEU:HD23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:338:PHE:CD2	1:4:453:THR:HG21	2.52	0.44
1:6:392:LYS:NZ	1:a:314:SER:HB2	2.33	0.44
1:6:449:TYR:CE1	1:a:451:PRO:HG3	2.52	0.44
1:a:202:PRO:HG2	1:u:251:ASN:HD21	1.81	0.44
1:c:451:PRO:HG3	1:d:449:TYR:CE1	2.52	0.44
1:d:410:ASN:CB	1:e:347:THR:HG21	2.46	0.44
1:g:451:PRO:HG3	1:h:449:TYR:CE1	2.52	0.44
1:k:392:LYS:NZ	1:m:314:SER:HB2	2.32	0.44
1:k:449:TYR:CE1	1:m:451:PRO:HG3	2.52	0.44
1:m:233:THR:HG23	1:m:234:ASP:N	2.32	0.44
1:n:212:ARG:CZ	1:p:290:GLN:HE21	2.29	0.44
1:n:314:SER:HB2	1:o:392:LYS:NZ	2.32	0.44
1:n:403:ASP:OD1	1:n:404:SER:N	2.50	0.44
1:o:338:PHE:CD2	1:o:453:THR:HG21	2.52	0.44
1:p:260:THR:HG22	1:q:259:ARG:HH12	1.81	0.44
1:q:403:ASP:OD1	1:q:404:SER:N	2.50	0.44
1:q:416:VAL:HG22	1:r:343:ASP:OD2	2.17	0.44
1:r:416:VAL:HG22	1:s:343:ASP:OD2	2.17	0.44
1:r:451:PRO:HG3	1:s:449:TYR:CE1	2.52	0.44
1:w:338:PHE:CD2	1:w:453:THR:HG21	2.52	0.44
1:w:403:ASP:OD1	1:w:404:SER:N	2.50	0.44
1:y:330:ARG:NH2	1:z:193:ASP:HB3	2.31	0.44
1:y:392:LYS:NZ	1:7:314:SER:HB2	2.32	0.44
1:z:338:PHE:CD2	1:z:453:THR:HG21	2.52	0.44
1:A:449:TYR:CE1	1:I:451:PRO:HG3	2.53	0.44
1:A:451:PRO:HG3	1:G:449:TYR:CE1	2.52	0.44
1:D:96:SER:HB2	1:D:225:TYR:C	2.41	0.44
1:D:189:THR:N	1:D:495:GLN:HE22	2.14	0.44
1:D:281:THR:H	1:D:401:ASN:ND2	2.12	0.44
1:E:212:ARG:CZ	1:F:290:GLN:HE21	2.29	0.44
1:G:410:ASN:CB	1:I:347:THR:HG21	2.47	0.44
1:K:401:ASN:OD1	1:K:580:ARG:NH1	2.49	0.44
1:M:403:ASP:OD1	1:M:404:SER:N	2.50	0.44
1:N:314:SER:HB2	1:P:392:LYS:NZ	2.32	0.44
1:O:140:LEU:HA	1:O:532:LEU:HD23	1.99	0.44
1:Q:338:PHE:CD2	1:Q:453:THR:HG21	2.52	0.44
1:V:410:ASN:CB	1:5:347:THR:HG21	2.47	0.44
1:W:140:LEU:HA	1:W:532:LEU:HD23	1.99	0.44
1:4:403:ASP:OD1	1:4:404:SER:N	2.50	0.44
1:6:416:VAL:HG22	1:b:343:ASP:OD2	2.17	0.44
1:c:338:PHE:CD2	1:c:453:THR:HG21	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:568:ALA:HB3	1:f:301:ASP:HA	1.97	0.44
1:d:314:SER:HB2	1:e:392:LYS:NZ	2.32	0.44
1:g:401:ASN:OD1	1:g:580:ARG:NH1	2.49	0.44
1:h:140:LEU:HA	1:h:532:LEU:HD23	1.99	0.44
1:i:403:ASP:OD1	1:i:404:SER:N	2.50	0.44
1:j:338:PHE:CD2	1:j:453:THR:HG21	2.52	0.44
1:k:403:ASP:OD1	1:k:404:SER:N	2.50	0.44
1:n:558:TYR:OH	1:n:576:PRO:O	2.20	0.44
1:n:568:ALA:HB3	1:y:301:ASP:HA	1.97	0.44
1:r:403:ASP:OD1	1:r:404:SER:N	2.50	0.44
1:r:410:ASN:CB	1:s:347:THR:HG21	2.47	0.44
1:t:233:THR:HG23	1:t:234:ASP:N	2.32	0.44
1:t:403:ASP:OD1	1:t:404:SER:N	2.50	0.44
1:u:403:ASP:OD1	1:u:404:SER:N	2.50	0.44
1:v:96:SER:HB2	1:v:225:TYR:C	2.41	0.44
1:A:343:ASP:OD2	1:I:416:VAL:HG22	2.17	0.44
1:B:343:ASP:OD2	1:L:416:VAL:HG22	2.18	0.44
1:B:403:ASP:OD1	1:B:404:SER:N	2.50	0.44
1:C:233:THR:HG23	1:C:234:ASP:N	2.32	0.44
1:C:338:PHE:CD2	1:C:453:THR:HG21	2.52	0.44
1:C:451:PRO:HG3	1:2:449:TYR:CE1	2.52	0.44
1:D:338:PHE:CD2	1:D:453:THR:HG21	2.52	0.44
1:E:384:GLN:O	1:E:573:THR:OG1	2.27	0.44
1:E:403:ASP:OD1	1:E:404:SER:N	2.50	0.44
1:I:233:THR:HG23	1:I:234:ASP:N	2.32	0.44
1:I:403:ASP:OD1	1:I:404:SER:N	2.50	0.44
1:K:410:ASN:CB	1:1:347:THR:HG21	2.48	0.44
1:L:140:LEU:HA	1:L:532:LEU:HD23	1.99	0.44
1:N:403:ASP:OD1	1:N:404:SER:N	2.50	0.44
1:O:233:THR:HG23	1:O:234:ASP:N	2.32	0.44
1:O:338:PHE:CD2	1:O:453:THR:HG21	2.52	0.44
1:O:343:ASP:OD2	1:h:416:VAL:HG22	2.18	0.44
1:Q:403:ASP:OD1	1:Q:404:SER:N	2.50	0.44
1:R:251:ASN:HD21	1:V:202:PRO:HG2	1.81	0.44
1:R:338:PHE:CD2	1:R:453:THR:HG21	2.52	0.44
1:S:140:LEU:HA	1:S:532:LEU:HD23	1.99	0.44
1:T:343:ASP:OD2	1:f:416:VAL:HG22	2.18	0.44
1:U:233:THR:HG23	1:U:234:ASP:N	2.32	0.44
1:V:96:SER:HB2	1:V:225:TYR:C	2.41	0.44
1:X:47:TYR:HB3	1:Y:255:ILE:HB	1.99	0.44
1:Y:202:PRO:HG2	1:x:251:ASN:HD21	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:281:THR:H	1:Y:401:ASN:ND2	2.11	0.44
1:1:416:VAL:HG22	1:8:343:ASP:OD2	2.18	0.44
1:2:140:LEU:HA	1:2:532:LEU:HD23	1.99	0.44
1:3:451:PRO:HG3	1:i:449:TYR:CE1	2.52	0.44
1:6:343:ASP:OD2	1:a:416:VAL:HG22	2.18	0.44
1:d:451:PRO:HG3	1:e:449:TYR:CE1	2.52	0.44
1:k:189:THR:N	1:k:495:GLN:HE22	2.14	0.44
1:k:202:PRO:HG2	1:s:251:ASN:HD21	1.81	0.44
1:k:343:ASP:OD2	1:m:416:VAL:HG22	2.18	0.44
1:m:403:ASP:OD1	1:m:404:SER:N	2.50	0.44
1:q:96:SER:HB2	1:q:225:TYR:C	2.41	0.44
1:q:347:THR:HG21	1:s:410:ASN:CB	2.46	0.44
1:r:233:THR:HG23	1:r:234:ASP:N	2.32	0.44
1:y:449:TYR:CE1	1:7:451:PRO:HG3	2.52	0.44
1:8:338:PHE:CD2	1:8:453:THR:HG21	2.52	0.44
1:B:189:THR:N	1:B:495:GLN:HE22	2.14	0.44
1:B:193:ASP:HB3	1:L:330:ARG:NH2	2.32	0.44
1:E:343:ASP:OD2	1:F:416:VAL:HG22	2.18	0.44
1:E:392:LYS:NZ	1:F:314:SER:HB2	2.32	0.44
1:F:111:TRP:CD1	1:F:249:ILE:HG13	2.53	0.44
1:F:338:PHE:CD2	1:F:453:THR:HG21	2.52	0.44
1:G:314:SER:HB2	1:I:392:LYS:NZ	2.32	0.44
1:H:338:PHE:CD2	1:H:453:THR:HG21	2.52	0.44
1:I:140:LEU:HA	1:I:532:LEU:HD23	1.99	0.44
1:K:47:TYR:CD2	1:L:255:ILE:HD13	2.52	0.44
1:K:330:ARG:NH2	1:1:193:ASP:HB3	2.32	0.44
1:P:338:PHE:CD2	1:P:453:THR:HG21	2.52	0.44
1:R:188:TYR:CE2	1:R:190:PRO:HG3	2.53	0.44
1:R:449:TYR:CE1	1:U:451:PRO:HG3	2.52	0.44
1:T:88:ASN:O	1:T:92:THR:OG1	2.32	0.44
1:T:193:ASP:HB3	1:f:330:ARG:NH2	2.31	0.44
1:T:416:VAL:HG22	1:4:343:ASP:OD2	2.18	0.44
1:U:111:TRP:CD1	1:U:249:ILE:HG13	2.53	0.44
1:U:338:PHE:CD2	1:U:453:THR:HG21	2.52	0.44
1:X:347:THR:HG21	1:5:410:ASN:CB	2.46	0.44
1:Y:188:TYR:CE2	1:Y:190:PRO:HG3	2.53	0.44
1:1:111:TRP:CD1	1:1:249:ILE:HG13	2.53	0.44
1:1:140:LEU:HA	1:1:532:LEU:HD23	1.99	0.44
1:1:451:PRO:HG3	1:8:449:TYR:CE1	2.52	0.44
1:2:281:THR:H	1:2:401:ASN:ND2	2.12	0.44
1:3:281:THR:H	1:3:401:ASN:ND2	2.11	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:338:PHE:CD2	1:5:453:THR:HG21	2.52	0.44
1:6:410:ASN:CB	1:b:347:THR:HG21	2.46	0.44
1:c:281:THR:H	1:c:401:ASN:ND2	2.12	0.44
1:d:338:PHE:CD2	1:d:453:THR:HG21	2.52	0.44
1:h:111:TRP:CD1	1:h:249:ILE:HG13	2.53	0.44
1:j:233:THR:HG23	1:j:234:ASP:N	2.32	0.44
1:k:193:ASP:HB3	1:m:330:ARG:NH2	2.31	0.44
1:l:338:PHE:CD2	1:l:453:THR:HG21	2.52	0.44
1:l:451:PRO:HG3	1:m:449:TYR:CE1	2.52	0.44
1:m:140:LEU:HA	1:m:532:LEU:HD23	1.99	0.44
1:n:111:TRP:CD1	1:n:249:ILE:HG13	2.53	0.44
1:o:403:ASP:OD1	1:o:404:SER:N	2.50	0.44
1:r:88:ASN:O	1:r:92:THR:OG1	2.32	0.44
1:t:88:ASN:O	1:t:92:THR:OG1	2.32	0.44
1:t:111:TRP:CD1	1:t:249:ILE:HG13	2.53	0.44
1:t:259:ARG:HH12	1:x:260:THR:HG22	1.81	0.44
1:t:338:PHE:CD2	1:t:453:THR:HG21	2.52	0.44
1:t:451:PRO:HG3	1:u:449:TYR:CE1	2.52	0.44
1:u:188:TYR:CE2	1:u:190:PRO:HG3	2.53	0.44
1:u:338:PHE:CD2	1:u:453:THR:HG21	2.52	0.44
1:v:140:LEU:HA	1:v:532:LEU:HD23	1.99	0.44
1:v:202:PRO:HG2	1:w:251:ASN:HD21	1.81	0.44
1:y:338:PHE:CD2	1:y:453:THR:HG21	2.52	0.44
1:y:403:ASP:OD1	1:y:404:SER:N	2.50	0.44
1:z:188:TYR:CE2	1:z:190:PRO:HG3	2.53	0.44
1:z:233:THR:HG23	1:z:234:ASP:N	2.32	0.44
1:z:281:THR:H	1:z:401:ASN:ND2	2.12	0.44
1:7:403:ASP:OD1	1:7:404:SER:N	2.50	0.44
1:8:233:THR:HG23	1:8:234:ASP:N	2.32	0.44
1:B:314:SER:HB2	1:J:392:LYS:NZ	2.32	0.44
1:D:188:TYR:CE2	1:D:190:PRO:HG3	2.53	0.44
1:D:233:THR:HG23	1:D:234:ASP:N	2.32	0.44
1:E:111:TRP:CD1	1:E:249:ILE:HG13	2.53	0.44
1:E:188:TYR:CE2	1:E:190:PRO:HG3	2.53	0.44
1:E:558:TYR:OH	1:E:576:PRO:O	2.20	0.44
1:H:140:LEU:HA	1:H:532:LEU:HD23	1.99	0.44
1:I:188:TYR:CE2	1:I:190:PRO:HG3	2.53	0.44
1:J:188:TYR:CE2	1:J:190:PRO:HG3	2.53	0.44
1:J:338:PHE:CD2	1:J:453:THR:HG21	2.52	0.44
1:J:451:PRO:HG3	1:L:449:TYR:CE1	2.52	0.44
1:K:47:TYR:HB3	1:L:255:ILE:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:403:ASP:OD1	1:L:404:SER:N	2.50	0.44
1:M:189:THR:N	1:M:495:GLN:HE22	2.14	0.44
1:N:416:VAL:HG22	1:P:343:ASP:OD2	2.17	0.44
1:Q:140:LEU:HA	1:Q:532:LEU:HD23	1.99	0.44
1:R:88:ASN:O	1:R:92:THR:OG1	2.32	0.44
1:T:188:TYR:CE2	1:T:190:PRO:HG3	2.53	0.44
1:V:111:TRP:CD1	1:V:249:ILE:HG13	2.53	0.44
1:V:403:ASP:OD1	1:V:404:SER:N	2.50	0.44
1:X:343:ASP:OD2	1:5:416:VAL:HG22	2.18	0.44
1:Z:111:TRP:CD1	1:Z:249:ILE:HG13	2.53	0.44
1:Z:392:LYS:NZ	1:w:314:SER:HB2	2.32	0.44
1:1:317:THR:HG21	1:1:322[B]:ARG:HH21	1.82	0.44
1:4:314:SER:HB2	1:f:392:LYS:NZ	2.32	0.44
1:5:188:TYR:CE2	1:5:190:PRO:HG3	2.53	0.44
1:6:188:TYR:CE2	1:6:190:PRO:HG3	2.53	0.44
1:6:338:PHE:CD2	1:6:453:THR:HG21	2.52	0.44
1:a:188:TYR:CE2	1:a:190:PRO:HG3	2.53	0.44
1:a:449:TYR:CE1	1:b:451:PRO:HG3	2.52	0.44
1:c:111:TRP:CD1	1:c:249:ILE:HG13	2.53	0.44
1:c:188:TYR:CE2	1:c:190:PRO:HG3	2.53	0.44
1:d:407:TRP:CD1	1:d:410:ASN:N	2.85	0.44
1:f:338:PHE:CD2	1:f:453:THR:HG21	2.52	0.44
1:l:188:TYR:CE2	1:l:190:PRO:HG3	2.53	0.44
1:l:255:ILE:HD13	1:r:47:TYR:CD2	2.53	0.44
1:l:416:VAL:HG22	1:m:343:ASP:OD2	2.17	0.44
1:m:281:THR:H	1:m:401:ASN:ND2	2.11	0.44
1:n:188:TYR:CE2	1:n:190:PRO:HG3	2.53	0.44
1:n:343:ASP:OD2	1:p:416:VAL:HG22	2.18	0.44
1:n:392:LYS:NZ	1:p:314:SER:HB2	2.33	0.44
1:p:111:TRP:CD1	1:p:249:ILE:HG13	2.53	0.44
1:p:233:THR:HG23	1:p:234:ASP:N	2.32	0.44
1:p:338:PHE:CD2	1:p:453:THR:HG21	2.52	0.44
1:q:449:TYR:CE1	1:s:451:PRO:HG3	2.52	0.44
1:r:111:TRP:CD1	1:r:249:ILE:HG13	2.53	0.44
1:r:140:LEU:HA	1:r:532:LEU:HD23	1.99	0.44
1:r:188:TYR:CE2	1:r:190:PRO:HG3	2.53	0.44
1:r:314:SER:HB2	1:s:392:LYS:NZ	2.32	0.44
1:u:88:ASN:O	1:u:92:THR:OG1	2.32	0.44
1:x:88:ASN:O	1:x:92:THR:OG1	2.32	0.44
1:x:188:TYR:CE2	1:x:190:PRO:HG3	2.53	0.44
1:y:343:ASP:OD2	1:7:416:VAL:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:140:LEU:HA	1:8:532:LEU:HD23	1.99	0.44
1:C:314:SER:HB2	1:2:392:LYS:NZ	2.32	0.44
1:F:188:TYR:CE2	1:F:190:PRO:HG3	2.53	0.44
1:F:259:ARG:HH12	1:R:260:THR:HG22	1.81	0.44
1:G:471:GLU:OE1	1:G:481:HIS:NE2	2.51	0.44
1:H:407:TRP:CD1	1:H:410:ASN:N	2.85	0.44
1:I:88:ASN:O	1:I:92:THR:OG1	2.32	0.44
1:I:111:TRP:CD1	1:I:249:ILE:HG13	2.53	0.44
1:I:317:THR:HG21	1:I:322[B]:ARG:HH21	1.81	0.44
1:J:403:ASP:OD1	1:J:404:SER:N	2.50	0.44
1:K:449:TYR:CE1	1:8:451:PRO:HG3	2.52	0.44
1:K:451:PRO:HG3	1:1:449:TYR:CE1	2.53	0.44
1:N:140:LEU:HA	1:N:532:LEU:HD23	1.99	0.44
1:N:338:PHE:CD2	1:N:453:THR:HG21	2.52	0.44
1:O:471:GLU:OE1	1:O:481:HIS:NE2	2.51	0.44
1:P:403:ASP:OD1	1:P:404:SER:N	2.50	0.44
1:R:416:VAL:HG22	1:S:343:ASP:OD2	2.18	0.44
1:V:188:TYR:CE2	1:V:190:PRO:HG3	2.53	0.44
1:V:416:VAL:HG22	1:5:343:ASP:OD2	2.18	0.44
1:X:189:THR:N	1:X:495:GLN:HE22	2.14	0.44
1:X:317:THR:HG21	1:X:322[B]:ARG:HH21	1.82	0.44
1:Y:111:TRP:CD1	1:Y:249:ILE:HG13	2.53	0.44
1:Z:416:VAL:HG22	1:x:343:ASP:OD2	2.18	0.44
1:3:338:PHE:CD2	1:3:453:THR:HG21	2.52	0.44
1:6:471:GLU:OE1	1:6:481:HIS:NE2	2.51	0.44
1:a:111:TRP:CD1	1:a:249:ILE:HG13	2.53	0.44
1:a:403:ASP:OD1	1:a:404:SER:N	2.50	0.44
1:c:314:SER:HB2	1:d:392:LYS:NZ	2.32	0.44
1:e:233:THR:HG23	1:e:234:ASP:N	2.32	0.44
1:f:111:TRP:CD1	1:f:249:ILE:HG13	2.53	0.44
1:i:189:THR:N	1:i:495:GLN:HE22	2.14	0.44
1:n:410:ASN:CB	1:o:347:THR:HG21	2.47	0.44
1:p:259:ARG:HH12	1:u:260:THR:HG22	1.81	0.44
1:q:410:ASN:CB	1:r:347:THR:HG21	2.47	0.44
1:q:471:GLU:OE1	1:q:481:HIS:NE2	2.51	0.44
1:r:338:PHE:CD2	1:r:453:THR:HG21	2.52	0.44
1:u:314:SER:HB2	1:v:392:LYS:HZ2	1.83	0.44
1:7:140:LEU:HA	1:7:532:LEU:HD23	1.99	0.44
1:A:188:TYR:CE2	1:A:190:PRO:HG3	2.53	0.44
1:B:451:PRO:HG3	1:J:449:TYR:CE1	2.52	0.44
1:F:233:THR:HG23	1:F:234:ASP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:403:ASP:OD1	1:F:404:SER:N	2.50	0.44
1:H:317:THR:HG21	1:H:322[B]:ARG:HH21	1.82	0.44
1:H:344:ASN:HB3	1:Y:413:ILE:HG12	2.00	0.44
1:I:338:PHE:CD2	1:I:453:THR:HG21	2.52	0.44
1:J:233:THR:HG23	1:J:234:ASP:N	2.32	0.44
1:J:416:VAL:HG22	1:L:343:ASP:OD2	2.18	0.44
1:L:338:PHE:CD2	1:L:453:THR:HG21	2.52	0.44
1:M:188:TYR:CE2	1:M:190:PRO:HG3	2.53	0.44
1:O:260:THR:HG22	1:P:259:ARG:HH12	1.81	0.44
1:P:111:TRP:CD1	1:P:249:ILE:HG13	2.53	0.44
1:Q:111:TRP:CD1	1:Q:249:ILE:HG13	2.53	0.44
1:S:202:PRO:HG2	1:4:251:ASN:HD21	1.81	0.44
1:S:410:ASN:CB	1:U:347:THR:HG21	2.47	0.44
1:T:140:LEU:HA	1:T:532:LEU:HD23	1.99	0.44
1:U:140:LEU:HA	1:U:532:LEU:HD23	1.99	0.44
1:W:188:TYR:CE2	1:W:190:PRO:HG3	2.53	0.44
1:Y:384:GLN:O	1:Y:573:THR:OG1	2.27	0.44
1:Z:338:PHE:CD2	1:Z:453:THR:HG21	2.52	0.44
1:Z:471:GLU:OE1	1:Z:481:HIS:NE2	2.51	0.44
1:2:338:PHE:CD2	1:2:453:THR:HG21	2.52	0.44
1:4:140:LEU:HA	1:4:532:LEU:HD23	1.99	0.44
1:5:471:GLU:OE1	1:5:481:HIS:NE2	2.51	0.44
1:a:255:ILE:HD13	1:e:47:TYR:CD2	2.53	0.44
1:b:189:THR:N	1:b:495:GLN:HE22	2.14	0.44
1:e:188:TYR:CE2	1:e:190:PRO:HG3	2.53	0.44
1:f:471:GLU:OE1	1:f:481:HIS:NE2	2.51	0.44
1:g:338:PHE:CD2	1:g:453:THR:HG21	2.52	0.44
1:h:233:THR:HG23	1:h:234:ASP:N	2.32	0.44
1:i:188:TYR:CE2	1:i:190:PRO:HG3	2.53	0.44
1:k:347:THR:HG21	1:m:410:ASN:CB	2.47	0.44
1:l:233:THR:HG23	1:l:234:ASP:N	2.32	0.44
1:l:403:ASP:OD1	1:l:404:SER:N	2.50	0.44
1:o:111:TRP:CD1	1:o:249:ILE:HG13	2.53	0.44
1:o:140:LEU:HA	1:o:532:LEU:HD23	1.99	0.44
1:p:188:TYR:CE2	1:p:190:PRO:HG3	2.53	0.44
1:q:343:ASP:OD2	1:s:416:VAL:HG22	2.18	0.44
1:s:188:TYR:CE2	1:s:190:PRO:HG3	2.53	0.44
1:u:416:VAL:HG22	1:v:343:ASP:OD2	2.18	0.44
1:y:111:TRP:CD1	1:y:249:ILE:HG13	2.53	0.44
1:7:338:PHE:CD2	1:7:453:THR:HG21	2.52	0.44
1:A:410:ASN:CB	1:G:347:THR:HG21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:347:THR:HG21	1:L:410:ASN:CB	2.47	0.44
1:E:410:ASN:CB	1:Q:347:THR:HG21	2.47	0.44
1:H:471:GLU:OE1	1:H:481:HIS:NE2	2.51	0.44
1:I:47:TYR:CD2	1:J:255:ILE:HD13	2.53	0.44
1:K:392:LYS:NZ	1:8:314:SER:HB2	2.33	0.44
1:L:111:TRP:CD1	1:L:249:ILE:HG13	2.53	0.44
1:L:471:GLU:OE1	1:L:481:HIS:NE2	2.51	0.44
1:N:111:TRP:CD1	1:N:249:ILE:HG13	2.53	0.44
1:T:260:THR:HG22	1:U:259:ARG:HH12	1.81	0.44
1:T:403:ASP:OD1	1:T:404:SER:N	2.50	0.44
1:V:449:TYR:CE1	1:X:451:PRO:HG3	2.52	0.44
1:W:233:THR:HG23	1:W:234:ASP:N	2.32	0.44
1:1:88:ASN:O	1:1:92:THR:OG1	2.32	0.44
1:1:188:TYR:CE2	1:1:190:PRO:HG3	2.53	0.44
1:1:233:THR:HG23	1:1:234:ASP:N	2.32	0.44
1:2:375:ARG:HH11	1:2:396:THR:HG1	1.62	0.44
1:2:407:TRP:CD1	1:2:410:ASN:N	2.85	0.44
1:3:392:LYS:NZ	1:j:314:SER:HB2	2.32	0.44
1:3:407:TRP:CD1	1:3:410:ASN:N	2.85	0.44
1:b:407:TRP:CD1	1:b:410:ASN:N	2.85	0.44
1:d:188:TYR:CE2	1:d:190:PRO:HG3	2.53	0.44
1:g:416:VAL:HG22	1:h:343:ASP:OD2	2.18	0.44
1:h:88:ASN:O	1:h:92:THR:OG1	2.32	0.44
1:h:188:TYR:CE2	1:h:190:PRO:HG3	2.53	0.44
1:i:384:GLN:O	1:i:573:THR:OG1	2.27	0.44
1:k:111:TRP:CD1	1:k:249:ILE:HG13	2.53	0.44
1:k:451:PRO:HG3	1:l:449:TYR:CE1	2.52	0.44
1:m:338:PHE:CD2	1:m:453:THR:HG21	2.52	0.44
1:m:471:GLU:OE1	1:m:481:HIS:NE2	2.51	0.44
1:s:111:TRP:CD1	1:s:249:ILE:HG13	2.53	0.44
1:t:347:THR:HG21	1:v:410:ASN:CB	2.47	0.44
1:w:281:THR:H	1:w:401:ASN:ND2	2.11	0.44
1:x:403:ASP:OD1	1:x:404:SER:N	2.50	0.44
1:y:259:ARG:HH12	1:8:260:THR:HG22	1.81	0.44
1:7:111:TRP:CD1	1:7:249:ILE:HG13	2.53	0.44
1:8:471:GLU:OE1	1:8:481:HIS:NE2	2.51	0.44
1:A:111:TRP:CD1	1:A:249:ILE:HG13	2.53	0.44
1:A:392:LYS:NZ	1:I:314:SER:HB2	2.32	0.44
1:B:111:TRP:CD1	1:B:249:ILE:HG13	2.53	0.44
1:C:111:TRP:CD1	1:C:249:ILE:HG13	2.53	0.44
1:E:189:THR:N	1:E:495:GLN:HE22	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:471:GLU:OE1	1:E:481:HIS:NE2	2.51	0.44
1:F:140:LEU:HA	1:F:532:LEU:HD23	1.99	0.44
1:G:111:TRP:CD1	1:G:249:ILE:HG13	2.53	0.44
1:G:188:TYR:CE2	1:G:190:PRO:HG3	2.53	0.44
1:H:188:TYR:CE2	1:H:190:PRO:HG3	2.53	0.44
1:J:111:TRP:CD1	1:J:249:ILE:HG13	2.53	0.44
1:M:384:GLN:O	1:M:573:THR:OG1	2.27	0.44
1:P:471:GLU:OE1	1:P:481:HIS:NE2	2.51	0.44
1:R:281:THR:H	1:R:401:ASN:ND2	2.11	0.44
1:V:392:LYS:NZ	1:X:314:SER:HB2	2.32	0.44
1:W:471:GLU:OE1	1:W:481:HIS:NE2	2.51	0.44
1:X:188:TYR:CE2	1:X:190:PRO:HG3	2.53	0.44
1:X:407:TRP:CD1	1:X:410:ASN:N	2.85	0.44
1:Z:343:ASP:OD2	1:w:416:VAL:HG22	2.18	0.44
1:2:188:TYR:CE2	1:2:190:PRO:HG3	2.53	0.44
1:2:471:GLU:OE1	1:2:481:HIS:NE2	2.51	0.44
1:3:188:TYR:CE2	1:3:190:PRO:HG3	2.53	0.44
1:3:314:SER:HB2	1:i:392:LYS:NZ	2.32	0.44
1:4:233:THR:HG23	1:4:234:ASP:N	2.32	0.44
1:b:188:TYR:CE2	1:b:190:PRO:HG3	2.53	0.44
1:c:384:GLN:O	1:c:573:THR:OG1	2.27	0.44
1:d:471:GLU:OE1	1:d:481:HIS:NE2	2.51	0.44
1:k:188:TYR:CE2	1:k:190:PRO:HG3	2.53	0.44
1:k:314:SER:HB2	1:l:392:LYS:NZ	2.32	0.44
1:m:111:TRP:CD1	1:m:249:ILE:HG13	2.53	0.44
1:m:188:TYR:CE2	1:m:190:PRO:HG3	2.53	0.44
1:n:471:GLU:OE1	1:n:481:HIS:NE2	2.51	0.44
1:p:403:ASP:OD1	1:p:404:SER:N	2.50	0.44
1:q:111:TRP:CD1	1:q:249:ILE:HG13	2.53	0.44
1:q:451:PRO:HG3	1:r:449:TYR:CE1	2.52	0.44
1:t:140:LEU:HA	1:t:532:LEU:HD23	1.99	0.44
1:t:343:ASP:OD2	1:v:416:VAL:HG22	2.17	0.44
1:u:281:THR:H	1:u:401:ASN:ND2	2.12	0.44
1:v:281:THR:H	1:v:401:ASN:ND2	2.12	0.44
1:v:471:GLU:OE1	1:v:481:HIS:NE2	2.51	0.44
1:w:140:LEU:HA	1:w:532:LEU:HD23	1.99	0.44
1:w:233:THR:HG23	1:w:234:ASP:N	2.32	0.44
1:x:140:LEU:HA	1:x:532:LEU:HD23	1.99	0.44
1:y:471:GLU:OE1	1:y:481:HIS:NE2	2.51	0.44
1:8:403:ASP:OD1	1:8:404:SER:N	2.50	0.44
1:A:140:LEU:HA	1:A:532:LEU:HD23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:416:VAL:HG22	1:G:343:ASP:OD2	2.18	0.43
1:B:188:TYR:CE2	1:B:190:PRO:HG3	2.53	0.43
1:D:111:TRP:CD1	1:D:249:ILE:HG13	2.53	0.43
1:H:403:ASP:OD1	1:H:404:SER:N	2.50	0.43
1:J:471:GLU:OE1	1:J:481:HIS:NE2	2.51	0.43
1:K:338:PHE:CD2	1:K:453:THR:HG21	2.52	0.43
1:M:111:TRP:CD1	1:M:249:ILE:HG13	2.53	0.43
1:O:403:ASP:OD1	1:O:404:SER:N	2.50	0.43
1:P:188:TYR:CE2	1:P:190:PRO:HG3	2.53	0.43
1:R:347:THR:HG21	1:U:410:ASN:CB	2.47	0.43
1:S:416:VAL:HG22	1:U:343:ASP:OD2	2.18	0.43
1:S:471:GLU:OE1	1:S:481:HIS:NE2	2.51	0.43
1:Z:188:TYR:CE2	1:Z:190:PRO:HG3	2.53	0.43
1:1:314:SER:HB2	1:8:392:LYS:NZ	2.32	0.43
1:3:384:GLN:O	1:3:573:THR:OG1	2.27	0.43
1:3:471:GLU:OE1	1:3:481:HIS:NE2	2.51	0.43
1:4:281:THR:H	1:4:401:ASN:ND2	2.11	0.43
1:6:314:SER:HB2	1:b:392:LYS:NZ	2.32	0.43
1:a:47:TYR:CD2	1:u:255:ILE:HD13	2.53	0.43
1:c:416:VAL:HG22	1:d:343:ASP:OD2	2.17	0.43
1:d:140:LEU:HA	1:d:532:LEU:HD23	1.99	0.43
1:d:403:ASP:OD1	1:d:404:SER:N	2.50	0.43
1:e:111:TRP:CD1	1:e:249:ILE:HG13	2.53	0.43
1:h:255:ILE:HD13	1:l:47:TYR:CD2	2.53	0.43
1:j:111:TRP:CD1	1:j:249:ILE:HG13	2.53	0.43
1:l:111:TRP:CD1	1:l:249:ILE:HG13	2.53	0.43
1:l:471:GLU:OE1	1:l:481:HIS:NE2	2.51	0.43
1:p:105:GLU:HG2	1:p:215:PHE:HD2	1.83	0.43
1:p:140:LEU:HA	1:p:532:LEU:HD23	1.99	0.43
1:p:471:GLU:OE1	1:p:481:HIS:NE2	2.51	0.43
1:w:343:ASP:OD2	1:x:416:VAL:HG22	2.18	0.43
1:w:471:GLU:OE1	1:w:481:HIS:NE2	2.51	0.43
1:y:188:TYR:CE2	1:y:190:PRO:HG3	2.53	0.43
1:y:451:PRO:HG3	1:z:449:TYR:CE1	2.52	0.43
1:B:471:GLU:OE1	1:B:481:HIS:NE2	2.51	0.43
1:D:449:TYR:CE1	1:P:451:PRO:HG3	2.52	0.43
1:F:105:GLU:HG2	1:F:215:PHE:HD2	1.84	0.43
1:F:471:GLU:OE1	1:F:481:HIS:NE2	2.51	0.43
1:G:317:THR:HG21	1:G:322[B]:ARG:HH21	1.83	0.43
1:G:451:PRO:HG3	1:I:449:TYR:CE1	2.52	0.43
1:H:343:ASP:OD2	1:Y:416:VAL:HG22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:47:TYR:CD2	1:1:255:ILE:HD13	2.54	0.43
1:M:392:LYS:NZ	1:2:314:SER:HB2	2.32	0.43
1:O:451:PRO:HG3	1:g:449:TYR:CE1	2.52	0.43
1:Q:47:TYR:CD2	1:S:255:ILE:HD13	2.53	0.43
1:R:111:TRP:CD1	1:R:249:ILE:HG13	2.53	0.43
1:R:255:ILE:HD13	1:V:47:TYR:CD2	2.53	0.43
1:R:503:ASN:O	1:R:517:ARG:HB2	2.19	0.43
1:S:105:GLU:HG2	1:S:215:PHE:HD2	1.84	0.43
1:S:111:TRP:CD1	1:S:249:ILE:HG13	2.53	0.43
1:U:189:THR:N	1:U:495:GLN:HE22	2.14	0.43
1:W:111:TRP:CD1	1:W:249:ILE:HG13	2.53	0.43
1:3:111:TRP:CD1	1:3:249:ILE:HG13	2.53	0.43
1:3:375:ARG:HH11	1:3:396:THR:HG1	1.62	0.43
1:4:471:GLU:OE1	1:4:481:HIS:NE2	2.51	0.43
1:5:111:TRP:CD1	1:5:249:ILE:HG13	2.53	0.43
1:6:111:TRP:CD1	1:6:249:ILE:HG13	2.53	0.43
1:d:105:GLU:HG2	1:d:215:PHE:HD2	1.83	0.43
1:e:471:GLU:OE1	1:e:481:HIS:NE2	2.51	0.43
1:j:255:ILE:HD13	1:z:47:TYR:CD2	2.53	0.43
1:k:471:GLU:OE1	1:k:481:HIS:NE2	2.51	0.43
1:m:105:GLU:HG2	1:m:215:PHE:HD2	1.83	0.43
1:n:189:THR:N	1:n:495:GLN:HE22	2.14	0.43
1:q:188:TYR:CE2	1:q:190:PRO:HG3	2.53	0.43
1:s:140:LEU:HA	1:s:532:LEU:HD23	1.99	0.43
1:t:188:TYR:CE2	1:t:190:PRO:HG3	2.53	0.43
1:t:189:THR:N	1:t:495:GLN:HE22	2.14	0.43
1:t:410:ASN:CB	1:u:347:THR:HG21	2.47	0.43
1:v:111:TRP:CD1	1:v:249:ILE:HG13	2.53	0.43
1:z:105:GLU:HG2	1:z:215:PHE:HD2	1.84	0.43
1:z:111:TRP:CD1	1:z:249:ILE:HG13	2.53	0.43
1:8:503:ASN:O	1:8:517:ARG:HB2	2.19	0.43
1:B:416:VAL:HG22	1:J:343:ASP:OD2	2.18	0.43
1:C:255:ILE:HD13	1:D:47:TYR:CD2	2.53	0.43
1:C:471:GLU:OE1	1:C:481:HIS:NE2	2.51	0.43
1:D:105:GLU:HG2	1:D:215:PHE:HD2	1.84	0.43
1:F:317:THR:HG21	1:F:322[B]:ARG:HH21	1.82	0.43
1:F:503:ASN:O	1:F:517:ARG:HB2	2.19	0.43
1:G:434:LEU:HD12	1:G:435:ALA:N	2.34	0.43
1:H:105:GLU:HG2	1:H:215:PHE:HD2	1.83	0.43
1:H:476:HIS:CE1	1:Y:480:LEU:HD23	2.53	0.43
1:L:188:TYR:CE2	1:L:190:PRO:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:471:GLU:OE1	1:N:481:HIS:NE2	2.51	0.43
1:O:188:TYR:CE2	1:O:190:PRO:HG3	2.53	0.43
1:O:255:ILE:HD13	1:4:47:TYR:CD2	2.54	0.43
1:O:392:LYS:NZ	1:h:314:SER:HB2	2.32	0.43
1:O:503:ASN:O	1:O:517:ARG:HB2	2.19	0.43
1:P:434:LEU:HD12	1:P:435:ALA:N	2.34	0.43
1:T:434:LEU:HD12	1:T:435:ALA:N	2.34	0.43
1:U:188:TYR:CE2	1:U:190:PRO:HG3	2.53	0.43
1:V:255:ILE:HB	1:W:47:TYR:HB3	2.00	0.43
1:W:105:GLU:HG2	1:W:215:PHE:HD2	1.84	0.43
1:W:434:LEU:HD12	1:W:435:ALA:N	2.34	0.43
1:X:392:LYS:NZ	1:5:314:SER:HB2	2.32	0.43
1:Z:105:GLU:HG2	1:Z:215:PHE:HD2	1.84	0.43
1:2:111:TRP:CD1	1:2:249:ILE:HG13	2.53	0.43
1:6:189:THR:N	1:6:495:GLN:HE22	2.14	0.43
1:c:503:ASN:O	1:c:517:ARG:HB2	2.19	0.43
1:e:434:LEU:HD12	1:e:435:ALA:N	2.34	0.43
1:f:105:GLU:HG2	1:f:215:PHE:HD2	1.84	0.43
1:f:188:TYR:CE2	1:f:190:PRO:HG3	2.53	0.43
1:g:314:SER:HB2	1:h:392:LYS:NZ	2.32	0.43
1:i:111:TRP:CD1	1:i:249:ILE:HG13	2.53	0.43
1:k:416:VAL:HG22	1:l:343:ASP:OD2	2.18	0.43
1:o:47:TYR:CD2	1:v:255:ILE:HD13	2.53	0.43
1:t:471:GLU:OE1	1:t:481:HIS:NE2	2.51	0.43
1:u:111:TRP:CD1	1:u:249:ILE:HG13	2.53	0.43
1:u:503:ASN:O	1:u:517:ARG:HB2	2.19	0.43
1:v:105:GLU:HG2	1:v:215:PHE:HD2	1.84	0.43
1:w:105:GLU:HG2	1:w:215:PHE:HD2	1.84	0.43
1:x:434:LEU:HD12	1:x:435:ALA:N	2.34	0.43
1:x:471:GLU:OE1	1:x:481:HIS:NE2	2.51	0.43
1:y:281:THR:H	1:y:401:ASN:ND2	2.11	0.43
1:z:410:ASN:CB	1:7:347:THR:HG21	2.47	0.43
1:z:451:PRO:HG3	1:7:449:TYR:CE1	2.53	0.43
1:C:416:VAL:HG22	1:2:343:ASP:OD2	2.18	0.43
1:C:434:LEU:HD12	1:C:435:ALA:N	2.34	0.43
1:D:471:GLU:OE1	1:D:481:HIS:NE2	2.51	0.43
1:E:407:TRP:CD1	1:E:410:ASN:N	2.85	0.43
1:H:111:TRP:CD1	1:H:249:ILE:HG13	2.53	0.43
1:K:233:THR:HG23	1:K:234:ASP:N	2.32	0.43
1:L:105:GLU:HG2	1:L:215:PHE:HD2	1.84	0.43
1:M:471:GLU:OE1	1:M:481:HIS:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:434:LEU:HD12	1:Q:435:ALA:N	2.34	0.43
1:S:188:TYR:CE2	1:S:190:PRO:HG3	2.53	0.43
1:S:407:TRP:CD1	1:S:410:ASN:N	2.85	0.43
1:S:434:LEU:HD12	1:S:435:ALA:N	2.34	0.43
1:T:471:GLU:OE1	1:T:481:HIS:NE2	2.51	0.43
1:U:471:GLU:OE1	1:U:481:HIS:NE2	2.51	0.43
1:X:115:ASP:OD2	1:X:197:THR:HG22	2.19	0.43
1:Y:471:GLU:OE1	1:Y:481:HIS:NE2	2.51	0.43
1:1:434:LEU:HD12	1:1:435:ALA:N	2.34	0.43
1:2:105:GLU:HG2	1:2:215:PHE:HD2	1.84	0.43
1:2:434:LEU:HD12	1:2:435:ALA:N	2.34	0.43
1:3:105:GLU:HG2	1:3:215:PHE:HD2	1.84	0.43
1:3:434:LEU:HD12	1:3:435:ALA:N	2.34	0.43
1:4:105:GLU:HG2	1:4:215:PHE:HD2	1.84	0.43
1:4:115:ASP:OD2	1:4:197:THR:HG22	2.19	0.43
1:4:416:VAL:HG22	1:f:343:ASP:OD2	2.18	0.43
1:a:392:LYS:NZ	1:b:314:SER:HB2	2.32	0.43
1:c:449:TYR:CE1	1:e:451:PRO:HG3	2.53	0.43
1:d:111:TRP:CD1	1:d:249:ILE:HG13	2.53	0.43
1:e:105:GLU:HG2	1:e:215:PHE:HD2	1.84	0.43
1:e:503:ASN:O	1:e:517:ARG:HB2	2.19	0.43
1:g:233:THR:HG23	1:g:234:ASP:N	2.32	0.43
1:i:471:GLU:OE1	1:i:481:HIS:NE2	2.51	0.43
1:j:471:GLU:OE1	1:j:481:HIS:NE2	2.51	0.43
1:l:255:ILE:HB	1:r:47:TYR:HB3	2.01	0.43
1:o:47:TYR:HB3	1:v:255:ILE:HB	2.00	0.43
1:p:503:ASN:O	1:p:517:ARG:HB2	2.19	0.43
1:v:434:LEU:HD12	1:v:435:ALA:N	2.34	0.43
1:w:115:ASP:OD2	1:w:197:THR:HG22	2.19	0.43
1:z:471:GLU:OE1	1:z:481:HIS:NE2	2.51	0.43
1:8:188:TYR:CE2	1:8:190:PRO:HG3	2.53	0.43
1:A:115:ASP:OD2	1:A:197:THR:HG22	2.19	0.43
1:B:105:GLU:HG2	1:B:215:PHE:HD2	1.84	0.43
1:B:286:ARG:HH22	1:J:101:ASP:CG	2.26	0.43
1:C:188:TYR:CE2	1:C:190:PRO:HG3	2.53	0.43
1:D:451:PRO:HG3	1:N:449:TYR:CE1	2.53	0.43
1:G:47:TYR:CD2	1:W:255:ILE:HD13	2.54	0.43
1:H:354:LYS:HD2	1:Y:319:ILE:HD11	2.00	0.43
1:I:47:TYR:HB3	1:J:255:ILE:HB	2.01	0.43
1:I:407:TRP:CD1	1:I:410:ASN:N	2.85	0.43
1:K:111:TRP:CD1	1:K:249:ILE:HG13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:354:LYS:HD2	1:8:319:ILE:HD11	2.01	0.43
1:M:47:TYR:CD2	1:N:255:ILE:HD13	2.54	0.43
1:M:140:LEU:HA	1:M:532:LEU:HD23	1.99	0.43
1:O:105:GLU:HG2	1:O:215:PHE:HD2	1.84	0.43
1:P:140:LEU:HA	1:P:532:LEU:HD23	1.99	0.43
1:Q:47:TYR:HB3	1:S:255:ILE:HB	2.01	0.43
1:Q:105:GLU:HG2	1:Q:215:PHE:HD2	1.84	0.43
1:V:115:ASP:OD2	1:V:197:THR:HG22	2.19	0.43
1:W:503:ASN:O	1:W:517:ARG:HB2	2.19	0.43
1:W:568:ALA:HB3	1:X:301:ASP:HA	2.00	0.43
1:X:214:TYR:OH	1:5:327:GLU:OE2	2.22	0.43
1:X:434:LEU:HD12	1:X:435:ALA:N	2.34	0.43
1:Y:434:LEU:HD12	1:Y:435:ALA:N	2.34	0.43
1:Y:503:ASN:O	1:Y:517:ARG:HB2	2.19	0.43
1:3:233:THR:HG23	1:3:234:ASP:N	2.32	0.43
1:3:343:ASP:OD2	1:j:416:VAL:HG22	2.18	0.43
1:5:47:TYR:CD2	1:b:255:ILE:HD13	2.54	0.43
1:5:140:LEU:HA	1:5:532:LEU:HD23	1.99	0.43
1:a:189:THR:N	1:a:495:GLN:HE22	2.14	0.43
1:b:115:ASP:OD2	1:b:197:THR:HG22	2.19	0.43
1:b:233:THR:HG23	1:b:234:ASP:N	2.32	0.43
1:c:407:TRP:CD1	1:c:410:ASN:N	2.85	0.43
1:c:471:GLU:OE1	1:c:481:HIS:NE2	2.51	0.43
1:d:47:TYR:CD2	1:r:255:ILE:HD13	2.54	0.43
1:g:189:THR:N	1:g:495:GLN:HE22	2.14	0.43
1:g:503:ASN:O	1:g:517:ARG:HB2	2.19	0.43
1:h:434:LEU:HD12	1:h:435:ALA:N	2.34	0.43
1:j:434:LEU:HD12	1:j:435:ALA:N	2.34	0.43
1:k:47:TYR:CD2	1:s:255:ILE:HD13	2.53	0.43
1:k:105:GLU:HG2	1:k:215:PHE:HD2	1.84	0.43
1:n:255:ILE:HD13	1:s:47:TYR:CD2	2.54	0.43
1:n:407:TRP:CD1	1:n:410:ASN:N	2.85	0.43
1:o:434:LEU:HD12	1:o:435:ALA:N	2.34	0.43
1:q:115:ASP:OD2	1:q:197:THR:HG22	2.19	0.43
1:q:434:LEU:HD12	1:q:435:ALA:N	2.34	0.43
1:t:407:TRP:CD1	1:t:410:ASN:N	2.85	0.43
1:t:434:LEU:HD12	1:t:435:ALA:N	2.34	0.43
1:v:47:TYR:CD2	1:w:255:ILE:HD13	2.53	0.43
1:v:188:TYR:CE2	1:v:190:PRO:HG3	2.53	0.43
1:7:188:TYR:CE2	1:7:190:PRO:HG3	2.53	0.43
1:7:471:GLU:OE1	1:7:481:HIS:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:105:GLU:HG2	1:8:215:PHE:HD2	1.84	0.43
1:A:47:TYR:CD2	1:E:255:ILE:HD13	2.54	0.43
1:A:255:ILE:HD13	1:B:47:TYR:CD2	2.54	0.43
1:D:115:ASP:OD2	1:D:197:THR:HG22	2.19	0.43
1:D:410:ASN:CB	1:N:347:THR:HG21	2.48	0.43
1:G:115:ASP:OD2	1:G:197:THR:HG22	2.19	0.43
1:K:188:TYR:CE2	1:K:190:PRO:HG3	2.53	0.43
1:K:503:ASN:O	1:K:517:ARG:HB2	2.19	0.43
1:N:188:TYR:CE2	1:N:190:PRO:HG3	2.53	0.43
1:O:47:TYR:CD2	1:P:255:ILE:HD13	2.53	0.43
1:P:47:TYR:CD2	1:Q:255:ILE:HD13	2.54	0.43
1:Q:471:GLU:OE1	1:Q:481:HIS:NE2	2.51	0.43
1:S:47:TYR:CD2	1:4:255:ILE:HD13	2.54	0.43
1:T:407:TRP:CD1	1:T:410:ASN:N	2.85	0.43
1:X:233:THR:HG23	1:X:234:ASP:N	2.32	0.43
1:X:255:ILE:HD13	1:6:47:TYR:CD2	2.54	0.43
1:Y:115:ASP:OD2	1:Y:197:THR:HG22	2.19	0.43
1:Y:568:ALA:HB3	1:Z:301:ASP:HA	1.99	0.43
1:Z:434:LEU:HD12	1:Z:435:ALA:N	2.34	0.43
1:a:115:ASP:OD2	1:a:197:THR:HG22	2.19	0.43
1:b:105:GLU:HG2	1:b:215:PHE:HD2	1.84	0.43
1:c:115:ASP:OD2	1:c:197:THR:HG22	2.19	0.43
1:c:434:LEU:HD12	1:c:435:ALA:N	2.34	0.43
1:g:47:TYR:CD2	1:m:255:ILE:HD13	2.53	0.43
1:g:47:TYR:HB3	1:m:255:ILE:HB	2.01	0.43
1:g:111:TRP:CD1	1:g:249:ILE:HG13	2.53	0.43
1:g:188:TYR:CE2	1:g:190:PRO:HG3	2.53	0.43
1:g:281:THR:H	1:g:401:ASN:ND2	2.11	0.43
1:j:47:TYR:CD2	1:k:255:ILE:HD13	2.53	0.43
1:j:281:THR:H	1:j:401:ASN:ND2	2.12	0.43
1:l:503:ASN:O	1:l:517:ARG:HB2	2.19	0.43
1:o:105:GLU:HG2	1:o:215:PHE:HD2	1.84	0.43
1:r:115:ASP:OD2	1:r:197:THR:HG22	2.19	0.43
1:r:407:TRP:CD1	1:r:410:ASN:N	2.85	0.43
1:s:115:ASP:OD2	1:s:197:THR:HG22	2.19	0.43
1:w:47:TYR:CD2	1:8:255:ILE:HD13	2.54	0.43
1:w:188:TYR:CE2	1:w:190:PRO:HG3	2.53	0.43
1:x:407:TRP:CD1	1:x:410:ASN:N	2.85	0.43
1:x:558:TYR:OH	1:x:576:PRO:O	2.20	0.43
1:y:255:ILE:HD13	1:8:47:TYR:CD2	2.54	0.43
1:y:434:LEU:HD12	1:y:435:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:115:ASP:OD2	1:z:197:THR:HG22	2.19	0.43
1:z:503:ASN:O	1:z:517:ARG:HB2	2.19	0.43
1:8:111:TRP:CD1	1:8:249:ILE:HG13	2.53	0.43
1:A:105:GLU:HG2	1:A:215:PHE:HD2	1.83	0.43
1:A:471:GLU:OE1	1:A:481:HIS:NE2	2.51	0.43
1:C:123:PHE:O	1:C:462:TYR:OH	2.16	0.43
1:D:503:ASN:O	1:D:517:ARG:HB2	2.19	0.43
1:F:449:TYR:CE1	1:Q:451:PRO:HG3	2.52	0.43
1:H:47:TYR:CD2	1:I:255:ILE:HD13	2.54	0.43
1:I:115:ASP:OD2	1:I:197:THR:HG22	2.19	0.43
1:J:277:ARG:HB3	1:J:584:ARG:NH1	2.34	0.43
1:J:503:ASN:O	1:J:517:ARG:HB2	2.19	0.43
1:K:115:ASP:OD2	1:K:197:THR:HG22	2.19	0.43
1:K:189:THR:N	1:K:495:GLN:HE22	2.14	0.43
1:N:503:ASN:O	1:N:517:ARG:HB2	2.19	0.43
1:P:281:THR:H	1:P:401:ASN:ND2	2.12	0.43
1:S:277:ARG:HB3	1:S:584:ARG:NH1	2.34	0.43
1:T:255:ILE:HD13	1:c:47:TYR:CD2	2.54	0.43
1:U:47:TYR:CD2	1:5:255:ILE:HD13	2.54	0.43
1:U:434:LEU:HD12	1:U:435:ALA:N	2.34	0.43
1:X:553:GLN:HB3	1:Y:238:LEU:HB3	2.01	0.43
1:Z:115:ASP:OD2	1:Z:197:THR:HG22	2.19	0.43
1:Z:503:ASN:O	1:Z:517:ARG:HB2	2.19	0.43
1:2:233:THR:HG23	1:2:234:ASP:N	2.32	0.43
1:3:142:SER:HG	1:3:531:THR:HG1	1.64	0.43
1:4:189:THR:N	1:4:495:GLN:HE22	2.14	0.43
1:4:277:ARG:HB3	1:4:584:ARG:NH1	2.34	0.43
1:6:255:ILE:HD13	1:t:47:TYR:CD2	2.54	0.43
1:b:434:LEU:HD12	1:b:435:ALA:N	2.34	0.43
1:g:105:GLU:HG2	1:g:215:PHE:HD2	1.84	0.43
1:i:47:TYR:CD2	1:7:255:ILE:HD13	2.54	0.43
1:i:140:LEU:HA	1:i:532:LEU:HD23	1.99	0.43
1:j:188:TYR:CE2	1:j:190:PRO:HG3	2.53	0.43
1:k:286:ARG:HH22	1:l:101:ASP:CG	2.26	0.43
1:o:188:TYR:CE2	1:o:190:PRO:HG3	2.53	0.43
1:o:255:ILE:HD13	1:y:47:TYR:CD2	2.54	0.43
1:o:471:GLU:OE1	1:o:481:HIS:NE2	2.51	0.43
1:p:277:ARG:HB3	1:p:584:ARG:NH1	2.34	0.43
1:t:255:ILE:HD13	1:x:47:TYR:CD2	2.53	0.43
1:v:407:TRP:CD1	1:v:410:ASN:N	2.85	0.43
1:w:277:ARG:HB3	1:w:584:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:434:LEU:HD12	1:w:435:ALA:N	2.34	0.43
1:B:503:ASN:O	1:B:517:ARG:HB2	2.19	0.43
1:C:281:THR:H	1:C:401:ASN:ND2	2.11	0.43
1:D:277:ARG:HB3	1:D:584:ARG:NH1	2.34	0.43
1:E:277:ARG:HB3	1:E:584:ARG:NH1	2.34	0.43
1:F:277:ARG:HB3	1:F:584:ARG:NH1	2.34	0.43
1:H:503:ASN:O	1:H:517:ARG:HB2	2.19	0.43
1:I:471:GLU:OE1	1:I:481:HIS:NE2	2.51	0.43
1:J:115:ASP:OD2	1:J:197:THR:HG22	2.19	0.43
1:O:111:TRP:CD1	1:O:249:ILE:HG13	2.53	0.43
1:O:277:ARG:HB3	1:O:584:ARG:NH1	2.34	0.43
1:Q:188:TYR:CE2	1:Q:190:PRO:HG3	2.53	0.43
1:Q:240:SER:O	1:Q:244:SER:OG	2.33	0.43
1:R:343:ASP:OD2	1:U:416:VAL:HG22	2.18	0.43
1:U:407:TRP:CD1	1:U:410:ASN:N	2.85	0.43
1:V:471:GLU:OE1	1:V:481:HIS:NE2	2.51	0.43
1:W:410:ASN:CB	1:Y:347:THR:HG21	2.47	0.43
1:W:451:PRO:HG3	1:Y:449:TYR:CE1	2.53	0.43
1:X:105:GLU:HG2	1:X:215:PHE:HD2	1.84	0.43
1:X:503:ASN:O	1:X:517:ARG:HB2	2.19	0.43
1:Y:407:TRP:CD1	1:Y:410:ASN:N	2.85	0.43
1:1:503:ASN:O	1:1:517:ARG:HB2	2.19	0.43
1:4:188:TYR:CE2	1:4:190:PRO:HG3	2.53	0.43
1:6:140:LEU:HA	1:6:532:LEU:HD23	1.99	0.43
1:b:503:ASN:O	1:b:517:ARG:HB2	2.19	0.43
1:c:105:GLU:HG2	1:c:215:PHE:HD2	1.83	0.43
1:d:480:LEU:HD23	1:e:476:HIS:CE1	2.54	0.43
1:e:115:ASP:OD2	1:e:197:THR:HG22	2.19	0.43
1:f:115:ASP:OD2	1:f:197:THR:HG22	2.19	0.43
1:f:434:LEU:HD12	1:f:435:ALA:N	2.34	0.43
1:f:503:ASN:O	1:f:517:ARG:HB2	2.19	0.43
1:g:115:ASP:OD2	1:g:197:THR:HG22	2.19	0.43
1:h:503:ASN:O	1:h:517:ARG:HB2	2.19	0.43
1:k:503:ASN:O	1:k:517:ARG:HB2	2.19	0.43
1:l:115:ASP:OD2	1:l:197:THR:HG22	2.19	0.43
1:l:277:ARG:HB3	1:l:584:ARG:NH1	2.34	0.43
1:n:47:TYR:CD2	1:z:255:ILE:HD13	2.54	0.43
1:n:277:ARG:HB3	1:n:584:ARG:NH1	2.34	0.43
1:o:451:PRO:HG3	1:p:449:TYR:CE1	2.53	0.43
1:r:471:GLU:OE1	1:r:481:HIS:NE2	2.51	0.43
1:s:105:GLU:HG2	1:s:215:PHE:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:277:ARG:HB3	1:s:584:ARG:NH1	2.34	0.43
1:t:416:VAL:HG22	1:u:343:ASP:OD2	2.18	0.43
1:v:277:ARG:HB3	1:v:584:ARG:NH1	2.34	0.43
1:w:189:THR:N	1:w:495:GLN:HE22	2.14	0.43
1:x:111:TRP:CD1	1:x:249:ILE:HG13	2.53	0.43
1:y:140:LEU:HA	1:y:532:LEU:HD23	1.99	0.43
1:z:277:ARG:HB3	1:z:584:ARG:NH1	2.34	0.43
1:7:503:ASN:O	1:7:517:ARG:HB2	2.19	0.43
1:A:277:ARG:HB3	1:A:584:ARG:NH1	2.34	0.43
1:B:255:ILE:HD13	1:C:47:TYR:CD2	2.54	0.43
1:D:255:ILE:HD13	1:E:47:TYR:CD2	2.54	0.43
1:F:255:ILE:HD13	1:R:47:TYR:CD2	2.53	0.43
1:H:319:ILE:HD11	1:W:354:LYS:HD2	2.01	0.43
1:H:330:ARG:NH2	1:W:193:ASP:HB3	2.34	0.43
1:J:47:TYR:HB3	1:1:255:ILE:HB	2.01	0.43
1:K:105:GLU:HG2	1:K:215:PHE:HD2	1.84	0.43
1:L:503:ASN:O	1:L:517:ARG:HB2	2.19	0.43
1:N:47:TYR:CD2	1:g:255:ILE:HD13	2.54	0.43
1:Q:115:ASP:OD2	1:Q:197:THR:HG22	2.19	0.43
1:T:111:TRP:CD1	1:T:249:ILE:HG13	2.53	0.43
1:U:47:TYR:HB3	1:5:255:ILE:HB	2.01	0.43
1:U:105:GLU:HG2	1:U:215:PHE:HD2	1.84	0.43
1:V:105:GLU:HG2	1:V:215:PHE:HD2	1.84	0.43
1:V:189:THR:N	1:V:495:GLN:HE22	2.14	0.43
1:W:115:ASP:OD2	1:W:197:THR:HG22	2.19	0.43
1:W:277:ARG:HB3	1:W:584:ARG:NH1	2.34	0.43
1:W:281:THR:H	1:W:401:ASN:ND2	2.12	0.43
1:Y:105:GLU:HG2	1:Y:215:PHE:HD2	1.83	0.43
1:3:416:VAL:HG22	1:i:343:ASP:OD2	2.17	0.43
1:4:111:TRP:CD1	1:4:249:ILE:HG13	2.53	0.43
1:4:434:LEU:HD12	1:4:435:ALA:N	2.34	0.43
1:6:255:ILE:HB	1:t:47:TYR:HB3	2.01	0.43
1:c:347:THR:HG21	1:e:410:ASN:CB	2.47	0.43
1:d:255:ILE:HB	1:f:47:TYR:HB3	2.01	0.43
1:e:255:ILE:HD13	1:q:47:TYR:CD2	2.54	0.43
1:e:277:ARG:HB3	1:e:584:ARG:NH1	2.34	0.43
1:e:281:THR:H	1:e:401:ASN:ND2	2.11	0.43
1:h:255:ILE:HB	1:l:47:TYR:HB3	2.01	0.43
1:i:105:GLU:HG2	1:i:215:PHE:HD2	1.84	0.43
1:m:434:LEU:HD12	1:m:435:ALA:N	2.34	0.43
1:o:115:ASP:OD2	1:o:197:THR:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:255:ILE:HD13	1:u:47:TYR:CD2	2.53	0.43
1:s:471:GLU:OE1	1:s:481:HIS:NE2	2.51	0.43
1:t:277:ARG:HB3	1:t:584:ARG:NH1	2.34	0.43
1:y:105:GLU:HG2	1:y:215:PHE:HD2	1.84	0.43
1:8:277:ARG:HB3	1:8:584:ARG:NH1	2.34	0.43
1:8:434:LEU:HD12	1:8:435:ALA:N	2.34	0.43
1:D:476:HIS:CE1	1:P:480:LEU:HD23	2.54	0.43
1:H:255:ILE:HB	1:Z:47:TYR:HB3	2.01	0.43
1:H:434:LEU:HD12	1:H:435:ALA:N	2.34	0.43
1:I:281:THR:H	1:I:401:ASN:ND2	2.11	0.43
1:M:115:ASP:OD2	1:M:197:THR:HG22	2.19	0.43
1:O:434:LEU:HD12	1:O:435:ALA:N	2.34	0.43
1:T:47:TYR:CD2	1:U:255:ILE:HD13	2.53	0.43
1:T:115:ASP:OD2	1:T:197:THR:HG22	2.19	0.43
1:T:255:ILE:HB	1:c:47:TYR:HB3	2.01	0.43
1:U:277:ARG:HB3	1:U:584:ARG:NH1	2.34	0.43
1:Y:47:TYR:CD2	1:x:255:ILE:HD13	2.54	0.43
1:Z:317:THR:HG21	1:Z:322[B]:ARG:HH21	1.83	0.43
1:1:105:GLU:HG2	1:1:215:PHE:HD2	1.83	0.43
1:1:471:GLU:OE1	1:1:481:HIS:NE2	2.51	0.43
1:5:189:THR:N	1:5:495:GLN:HE22	2.14	0.43
1:6:327:GLU:OE2	1:b:214:TYR:OH	2.22	0.43
1:a:105:GLU:HG2	1:a:215:PHE:HD2	1.84	0.43
1:a:255:ILE:HB	1:e:47:TYR:HB3	2.01	0.43
1:a:471:GLU:OE1	1:a:481:HIS:NE2	2.51	0.43
1:b:111:TRP:CD1	1:b:249:ILE:HG13	2.53	0.43
1:c:314:SER:HB2	1:d:392:LYS:HZ2	1.84	0.43
1:d:255:ILE:HD13	1:f:47:TYR:CD2	2.54	0.43
1:d:319:ILE:HD11	1:e:354:LYS:HD2	2.01	0.43
1:d:434:LEU:HD12	1:d:435:ALA:N	2.34	0.43
1:d:503:ASN:O	1:d:517:ARG:HB2	2.19	0.43
1:h:471:GLU:OE1	1:h:481:HIS:NE2	2.51	0.43
1:j:47:TYR:HB3	1:k:255:ILE:HB	2.01	0.43
1:m:503:ASN:O	1:m:517:ARG:HB2	2.19	0.43
1:o:255:ILE:HB	1:y:47:TYR:HB3	2.01	0.43
1:p:189:THR:N	1:p:495:GLN:HE22	2.14	0.43
1:q:105:GLU:HG2	1:q:215:PHE:HD2	1.84	0.43
1:r:281:THR:H	1:r:401:ASN:ND2	2.12	0.43
1:t:105:GLU:HG2	1:t:215:PHE:HD2	1.84	0.43
1:u:434:LEU:HD12	1:u:435:ALA:N	2.34	0.43
1:y:115:ASP:OD2	1:y:197:THR:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:277:ARG:HB3	1:B:584:ARG:NH1	2.34	0.42
1:C:286:ARG:HH22	1:2:101:ASP:CG	2.26	0.42
1:C:407:TRP:CD1	1:C:410:ASN:N	2.85	0.42
1:G:105:GLU:HG2	1:G:215:PHE:HD2	1.84	0.42
1:H:47:TYR:HB3	1:I:255:ILE:HB	2.01	0.42
1:H:212:ARG:CZ	1:Y:290:GLN:HE21	2.32	0.42
1:K:281:THR:H	1:K:401:ASN:ND2	2.12	0.42
1:L:434:LEU:HD12	1:L:435:ALA:N	2.34	0.42
1:M:343:ASP:OD2	1:2:416:VAL:HG22	2.18	0.42
1:P:47:TYR:HB3	1:Q:255:ILE:HB	2.01	0.42
1:P:105:GLU:HG2	1:P:215:PHE:HD2	1.84	0.42
1:R:434:LEU:HD12	1:R:435:ALA:N	2.34	0.42
1:R:471:GLU:OE1	1:R:481:HIS:NE2	2.51	0.42
1:U:503:ASN:O	1:U:517:ARG:HB2	2.19	0.42
1:V:503:ASN:O	1:V:517:ARG:HB2	2.19	0.42
1:Y:277:ARG:HB3	1:Y:584:ARG:NH1	2.34	0.42
1:1:277:ARG:HB3	1:1:584:ARG:NH1	2.34	0.42
1:5:105:GLU:HG2	1:5:215:PHE:HD2	1.84	0.42
1:6:105:GLU:HG2	1:6:215:PHE:HD2	1.84	0.42
1:a:434:LEU:HD12	1:a:435:ALA:N	2.34	0.42
1:a:503:ASN:O	1:a:517:ARG:HB2	2.19	0.42
1:g:277:ARG:HB3	1:g:584:ARG:NH1	2.34	0.42
1:h:105:GLU:HG2	1:h:215:PHE:HD2	1.84	0.42
1:i:115:ASP:OD2	1:i:197:THR:HG22	2.19	0.42
1:i:123:PHE:O	1:i:462:TYR:OH	2.16	0.42
1:j:105:GLU:HG2	1:j:215:PHE:HD2	1.83	0.42
1:j:255:ILE:HB	1:z:47:TYR:HB3	2.01	0.42
1:k:277:ARG:HB3	1:k:584:ARG:NH1	2.34	0.42
1:o:240:SER:O	1:o:244:SER:OG	2.33	0.42
1:q:277:ARG:HB3	1:q:584:ARG:NH1	2.34	0.42
1:t:503:ASN:O	1:t:517:ARG:HB2	2.19	0.42
1:u:471:GLU:OE1	1:u:481:HIS:NE2	2.51	0.42
1:w:111:TRP:CD1	1:w:249:ILE:HG13	2.53	0.42
1:x:503:ASN:O	1:x:517:ARG:HB2	2.19	0.42
1:8:281:THR:CG2	1:8:584:ARG:HH21	2.32	0.42
1:B:233:THR:HG23	1:B:234:ASP:N	2.32	0.42
1:B:255:ILE:HB	1:C:47:TYR:HB3	2.01	0.42
1:B:434:LEU:HD12	1:B:435:ALA:N	2.34	0.42
1:C:255:ILE:HB	1:D:47:TYR:HB3	2.01	0.42
1:F:47:TYR:CD2	1:G:255:ILE:HD13	2.53	0.42
1:G:277:ARG:HB3	1:G:584:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:503:ASN:O	1:G:517:ARG:HB2	2.19	0.42
1:H:255:ILE:HD13	1:Z:47:TYR:CD2	2.54	0.42
1:K:277:ARG:HB3	1:K:584:ARG:NH1	2.34	0.42
1:K:471:GLU:OE1	1:K:481:HIS:NE2	2.51	0.42
1:M:105:GLU:HG2	1:M:215:PHE:HD2	1.84	0.42
1:M:240:SER:O	1:M:244:SER:OG	2.33	0.42
1:P:115:ASP:OD2	1:P:197:THR:HG22	2.19	0.42
1:P:277:ARG:HB3	1:P:584:ARG:NH1	2.34	0.42
1:S:115:ASP:OD2	1:S:197:THR:HG22	2.19	0.42
1:T:503:ASN:O	1:T:517:ARG:HB2	2.19	0.42
1:V:407:TRP:CD1	1:V:410:ASN:N	2.85	0.42
1:X:111:TRP:CD1	1:X:249:ILE:HG13	2.53	0.42
1:Z:384:GLN:O	1:Z:573:THR:OG1	2.27	0.42
1:3:101:ASP:CG	1:j:286:ARG:HH22	2.27	0.42
1:6:115:ASP:OD2	1:6:197:THR:HG22	2.19	0.42
1:6:434:LEU:HD12	1:6:435:ALA:N	2.34	0.42
1:6:503:ASN:O	1:6:517:ARG:HB2	2.19	0.42
1:b:47:TYR:CD2	1:c:255:ILE:HD13	2.54	0.42
1:c:277:ARG:HB3	1:c:584:ARG:NH1	2.34	0.42
1:d:47:TYR:HB3	1:r:255:ILE:HB	2.01	0.42
1:d:189:THR:N	1:d:495:GLN:HE22	2.14	0.42
1:f:255:ILE:HD13	1:h:47:TYR:CD2	2.54	0.42
1:f:277:ARG:HB3	1:f:584:ARG:NH1	2.34	0.42
1:g:471:GLU:OE1	1:g:481:HIS:NE2	2.51	0.42
1:h:277:ARG:HB3	1:h:584:ARG:NH1	2.34	0.42
1:k:392:LYS:HZ2	1:m:314:SER:HB2	1.84	0.42
1:k:434:LEU:HD12	1:k:435:ALA:N	2.34	0.42
1:n:434:LEU:HD12	1:n:435:ALA:N	2.34	0.42
1:v:115:ASP:OD2	1:v:197:THR:HG22	2.19	0.42
1:x:115:ASP:OD2	1:x:197:THR:HG22	2.19	0.42
1:y:277:ARG:HB3	1:y:584:ARG:NH1	2.34	0.42
1:y:480:LEU:HD23	1:z:476:HIS:CE1	2.54	0.42
1:B:392:LYS:HZ2	1:L:314:SER:HB2	1.84	0.42
1:C:105:GLU:HG2	1:C:215:PHE:HD2	1.84	0.42
1:C:384:GLN:O	1:C:573:THR:OG1	2.27	0.42
1:D:281:THR:CG2	1:D:584:ARG:HH21	2.33	0.42
1:D:407:TRP:CD1	1:D:410:ASN:N	2.85	0.42
1:E:434:LEU:HD12	1:E:435:ALA:N	2.34	0.42
1:F:189:THR:N	1:F:495:GLN:HE22	2.14	0.42
1:H:344:ASN:CB	1:Y:413:ILE:HG12	2.49	0.42
1:J:281:THR:CG2	1:J:584:ARG:HH21	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:47:TYR:CD2	1:2:255:ILE:HD13	2.54	0.42
1:L:407:TRP:CD1	1:L:410:ASN:N	2.85	0.42
1:O:281:THR:CG2	1:O:584:ARG:HH21	2.33	0.42
1:T:281:THR:CG2	1:T:584:ARG:HH21	2.33	0.42
1:V:101:ASP:CG	1:X:286:ARG:HH22	2.26	0.42
1:V:434:LEU:HD12	1:V:435:ALA:N	2.34	0.42
1:Z:255:ILE:HD13	1:1:47:TYR:CD2	2.54	0.42
1:Z:277:ARG:HB3	1:Z:584:ARG:NH1	2.34	0.42
1:2:115:ASP:OD2	1:2:197:THR:HG22	2.19	0.42
1:2:503:ASN:O	1:2:517:ARG:HB2	2.19	0.42
1:3:480:LEU:HD23	1:i:476:HIS:CE1	2.55	0.42
1:5:47:TYR:HB3	1:b:255:ILE:HB	2.01	0.42
1:5:434:LEU:HD12	1:5:435:ALA:N	2.34	0.42
1:6:281:THR:CG2	1:6:584:ARG:HH21	2.33	0.42
1:b:471:GLU:OE1	1:b:481:HIS:NE2	2.51	0.42
1:l:281:THR:H	1:l:401:ASN:ND2	2.11	0.42
1:l:434:LEU:HD12	1:l:435:ALA:N	2.34	0.42
1:m:407:TRP:CD1	1:m:410:ASN:N	2.85	0.42
1:o:281:THR:CG2	1:o:584:ARG:HH21	2.33	0.42
1:q:503:ASN:O	1:q:517:ARG:HB2	2.19	0.42
1:z:434:LEU:HD12	1:z:435:ALA:N	2.34	0.42
1:7:434:LEU:HD12	1:7:435:ALA:N	2.34	0.42
1:A:503:ASN:O	1:A:517:ARG:HB2	2.19	0.42
1:D:354:LYS:HD2	1:P:319:ILE:HD11	2.01	0.42
1:D:434:LEU:HD12	1:D:435:ALA:N	2.34	0.42
1:D:506:ASP:OD1	1:D:507:GLN:N	2.53	0.42
1:H:115:ASP:OD2	1:H:197:THR:HG22	2.19	0.42
1:H:344:ASN:HA	1:Y:413:ILE:HA	2.01	0.42
1:J:281:THR:H	1:J:401:ASN:ND2	2.11	0.42
1:L:115:ASP:OD2	1:L:197:THR:HG22	2.19	0.42
1:N:189:THR:N	1:N:495:GLN:HE22	2.14	0.42
1:N:434:LEU:HD12	1:N:435:ALA:N	2.34	0.42
1:O:255:ILE:HB	1:4:47:TYR:HB3	2.01	0.42
1:O:506:ASP:OD1	1:O:507:GLN:N	2.53	0.42
1:Q:281:THR:CG2	1:Q:584:ARG:HH21	2.33	0.42
1:S:503:ASN:O	1:S:517:ARG:HB2	2.19	0.42
1:V:506:ASP:OD1	1:V:507:GLN:N	2.53	0.42
1:X:471:GLU:OE1	1:X:481:HIS:NE2	2.51	0.42
1:Z:192:ILE:HD11	1:Z:464:GLN:O	2.20	0.42
1:2:189:THR:N	1:2:495:GLN:HE22	2.14	0.42
1:2:506:ASP:OD1	1:2:507:GLN:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:255:ILE:HD13	1:m:47:TYR:CD2	2.54	0.42
1:3:281:THR:CG2	1:3:584:ARG:HH21	2.33	0.42
1:3:503:ASN:O	1:3:517:ARG:HB2	2.19	0.42
1:4:281:THR:CG2	1:4:584:ARG:HH21	2.33	0.42
1:4:503:ASN:O	1:4:517:ARG:HB2	2.19	0.42
1:5:503:ASN:O	1:5:517:ARG:HB2	2.19	0.42
1:a:407:TRP:CD1	1:a:410:ASN:N	2.85	0.42
1:b:47:TYR:HB3	1:c:255:ILE:HB	2.01	0.42
1:f:189:THR:N	1:f:495:GLN:HE22	2.14	0.42
1:g:434:LEU:HD12	1:g:435:ALA:N	2.34	0.42
1:j:407:TRP:CD1	1:j:410:ASN:N	2.85	0.42
1:k:233:THR:HG23	1:k:234:ASP:N	2.32	0.42
1:k:506:ASP:OD1	1:k:507:GLN:N	2.53	0.42
1:l:281:THR:CG2	1:l:584:ARG:HH21	2.33	0.42
1:l:286:ARG:HH22	1:m:101:ASP:CG	2.26	0.42
1:n:503:ASN:O	1:n:517:ARG:HB2	2.19	0.42
1:p:47:TYR:CD2	1:q:255:ILE:HD13	2.54	0.42
1:r:277:ARG:HB3	1:r:584:ARG:NH1	2.34	0.42
1:s:503:ASN:O	1:s:517:ARG:HB2	2.19	0.42
1:v:503:ASN:O	1:v:517:ARG:HB2	2.19	0.42
1:y:319:ILE:HD11	1:z:354:LYS:HD2	2.01	0.42
1:y:503:ASN:O	1:y:517:ARG:HB2	2.19	0.42
1:z:281:THR:CG2	1:z:584:ARG:HH21	2.33	0.42
1:8:506:ASP:OD1	1:8:507:GLN:N	2.53	0.42
1:A:255:ILE:HB	1:B:47:TYR:HB3	2.01	0.42
1:B:506:ASP:OD1	1:B:507:GLN:N	2.53	0.42
1:I:192:ILE:HD11	1:I:464:GLN:O	2.20	0.42
1:J:286:ARG:HH22	1:L:101:ASP:CG	2.26	0.42
1:J:434:LEU:HD12	1:J:435:ALA:N	2.34	0.42
1:K:434:LEU:HD12	1:K:435:ALA:N	2.34	0.42
1:K:506:ASP:OD1	1:K:507:GLN:N	2.53	0.42
1:M:277:ARG:HB3	1:M:584:ARG:NH1	2.34	0.42
1:N:277:ARG:HB3	1:N:584:ARG:NH1	2.34	0.42
1:O:192:ILE:HD11	1:O:464:GLN:O	2.20	0.42
1:P:76:PRO:O	1:P:517:ARG:NH2	2.53	0.42
1:Q:76:PRO:O	1:Q:517:ARG:NH2	2.53	0.42
1:R:281:THR:CG2	1:R:584:ARG:HH21	2.33	0.42
1:V:76:PRO:O	1:V:517:ARG:NH2	2.53	0.42
1:W:240:SER:O	1:W:244:SER:OG	2.32	0.42
1:W:506:ASP:OD1	1:W:507:GLN:N	2.53	0.42
1:X:255:ILE:HB	1:6:47:TYR:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:281:THR:CG2	1:X:584:ARG:HH21	2.33	0.42
1:X:506:ASP:OD1	1:X:507:GLN:N	2.53	0.42
1:1:113:LEU:HD23	1:1:211:TYR:CD1	2.49	0.42
1:2:281:THR:CG2	1:2:584:ARG:HH21	2.33	0.42
1:3:115:ASP:OD2	1:3:197:THR:HG22	2.19	0.42
1:3:506:ASP:OD1	1:3:507:GLN:N	2.53	0.42
1:5:115:ASP:OD2	1:5:197:THR:HG22	2.19	0.42
1:5:281:THR:CG2	1:5:584:ARG:HH21	2.33	0.42
1:a:101:ASP:CG	1:b:286:ARG:HH22	2.27	0.42
1:a:506:ASP:OD1	1:a:507:GLN:N	2.53	0.42
1:b:281:THR:CG2	1:b:584:ARG:HH21	2.33	0.42
1:b:506:ASP:OD1	1:b:507:GLN:N	2.53	0.42
1:c:281:THR:CG2	1:c:584:ARG:HH21	2.33	0.42
1:d:115:ASP:OD2	1:d:197:THR:HG22	2.19	0.42
1:e:76:PRO:O	1:e:517:ARG:NH2	2.53	0.42
1:e:506:ASP:OD1	1:e:507:GLN:N	2.53	0.42
1:f:192:ILE:HD11	1:f:464:GLN:O	2.20	0.42
1:g:407:TRP:CD1	1:g:410:ASN:N	2.85	0.42
1:g:506:ASP:OD1	1:g:507:GLN:N	2.53	0.42
1:i:277:ARG:HB3	1:i:584:ARG:NH1	2.34	0.42
1:j:115:ASP:OD2	1:j:197:THR:HG22	2.19	0.42
1:k:47:TYR:HB3	1:s:255:ILE:HB	2.01	0.42
1:m:115:ASP:OD2	1:m:197:THR:HG22	2.19	0.42
1:n:105:GLU:HG2	1:n:215:PHE:HD2	1.84	0.42
1:n:115:ASP:OD2	1:n:197:THR:HG22	2.19	0.42
1:o:76:PRO:O	1:o:517:ARG:NH2	2.53	0.42
1:r:503:ASN:O	1:r:517:ARG:HB2	2.19	0.42
1:t:192:ILE:HD11	1:t:464:GLN:O	2.20	0.42
1:u:281:THR:CG2	1:u:584:ARG:HH21	2.33	0.42
1:w:47:TYR:HB3	1:8:255:ILE:HB	2.01	0.42
1:w:281:THR:CG2	1:w:584:ARG:HH21	2.33	0.42
1:w:503:ASN:O	1:w:517:ARG:HB2	2.19	0.42
1:x:281:THR:CG2	1:x:584:ARG:HH21	2.33	0.42
1:y:76:PRO:O	1:y:517:ARG:NH2	2.53	0.42
1:z:407:TRP:CD1	1:z:410:ASN:N	2.85	0.42
1:z:506:ASP:OD1	1:z:507:GLN:N	2.53	0.42
1:8:192:ILE:HD11	1:8:464:GLN:O	2.20	0.42
1:C:76:PRO:O	1:C:517:ARG:NH2	2.53	0.42
1:C:115:ASP:OD2	1:C:197:THR:HG22	2.19	0.42
1:C:506:ASP:OD1	1:C:507:GLN:N	2.53	0.42
1:D:314:SER:HB2	1:N:392:LYS:HZ2	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:105:GLU:HG2	1:E:215:PHE:HD2	1.84	0.42
1:E:115:ASP:OD2	1:E:197:THR:HG22	2.19	0.42
1:E:503:ASN:O	1:E:517:ARG:HB2	2.19	0.42
1:E:506:ASP:OD1	1:E:507:GLN:N	2.53	0.42
1:F:434:LEU:HD12	1:F:435:ALA:N	2.34	0.42
1:F:506:ASP:OD1	1:F:507:GLN:N	2.53	0.42
1:F:537:ARG:NH1	1:F:539:ASN:HB3	2.35	0.42
1:G:506:ASP:OD1	1:G:507:GLN:N	2.53	0.42
1:H:189:THR:N	1:H:495:GLN:HE22	2.14	0.42
1:I:277:ARG:HB3	1:I:584:ARG:NH1	2.34	0.42
1:I:503:ASN:O	1:I:517:ARG:HB2	2.19	0.42
1:I:506:ASP:OD1	1:I:507:GLN:N	2.53	0.42
1:J:105:GLU:HG2	1:J:215:PHE:HD2	1.84	0.42
1:L:47:TYR:HB3	1:2:255:ILE:HB	2.01	0.42
1:M:255:ILE:HD13	1:3:47:TYR:CD2	2.54	0.42
1:P:192:ILE:HD11	1:P:464:GLN:O	2.20	0.42
1:P:503:ASN:O	1:P:517:ARG:HB2	2.19	0.42
1:Q:277:ARG:HB3	1:Q:584:ARG:NH1	2.34	0.42
1:Q:503:ASN:O	1:Q:517:ARG:HB2	2.19	0.42
1:R:105:GLU:HG2	1:R:215:PHE:HD2	1.84	0.42
1:T:105:GLU:HG2	1:T:215:PHE:HD2	1.84	0.42
1:T:277:ARG:HB3	1:T:584:ARG:NH1	2.34	0.42
1:U:192:ILE:HD11	1:U:464:GLN:O	2.20	0.42
1:U:281:THR:CG2	1:U:584:ARG:HH21	2.33	0.42
1:Y:281:THR:CG2	1:Y:584:ARG:HH21	2.33	0.42
1:Z:189:THR:N	1:Z:495:GLN:HE22	2.14	0.42
1:Z:281:THR:CG2	1:Z:584:ARG:HH21	2.33	0.42
1:3:255:ILE:HB	1:m:47:TYR:HB3	2.01	0.42
1:4:76:PRO:O	1:4:517:ARG:NH2	2.53	0.42
1:5:506:ASP:OD1	1:5:507:GLN:N	2.53	0.42
1:a:76:PRO:O	1:a:517:ARG:NH2	2.53	0.42
1:e:240:SER:O	1:e:244:SER:OG	2.33	0.42
1:f:384:GLN:O	1:f:573:THR:OG1	2.27	0.42
1:h:189:THR:N	1:h:495:GLN:HE22	2.14	0.42
1:j:76:PRO:O	1:j:517:ARG:NH2	2.53	0.42
1:j:277:ARG:HB3	1:j:584:ARG:NH1	2.34	0.42
1:j:384:GLN:O	1:j:573:THR:OG1	2.27	0.42
1:n:506:ASP:OD1	1:n:507:GLN:N	2.53	0.42
1:o:192:ILE:HD11	1:o:464:GLN:O	2.20	0.42
1:o:277:ARG:HB3	1:o:584:ARG:NH1	2.34	0.42
1:q:476:HIS:CE1	1:s:480:LEU:HD23	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:506:ASP:OD1	1:q:507:GLN:N	2.53	0.42
1:r:192:ILE:HD11	1:r:464:GLN:O	2.20	0.42
1:r:506:ASP:OD1	1:r:507:GLN:N	2.53	0.42
1:s:281:THR:H	1:s:401:ASN:ND2	2.11	0.42
1:t:281:THR:CG2	1:t:584:ARG:HH21	2.33	0.42
1:u:277:ARG:HB3	1:u:584:ARG:NH1	2.34	0.42
1:w:76:PRO:O	1:w:517:ARG:NH2	2.53	0.42
1:x:277:ARG:HB3	1:x:584:ARG:NH1	2.34	0.42
1:y:255:ILE:HB	1:8:47:TYR:HB3	2.01	0.42
1:7:189:THR:N	1:7:495:GLN:HE22	2.14	0.42
1:7:277:ARG:HB3	1:7:584:ARG:NH1	2.34	0.42
1:A:476:HIS:CE1	1:I:480:LEU:HD23	2.55	0.42
1:C:192:ILE:HD11	1:C:464:GLN:O	2.20	0.42
1:C:277:ARG:HB3	1:C:584:ARG:NH1	2.34	0.42
1:E:76:PRO:O	1:E:517:ARG:NH2	2.53	0.42
1:E:354:LYS:HD2	1:F:319:ILE:HD11	2.02	0.42
1:F:47:TYR:HB3	1:G:255:ILE:HB	2.01	0.42
1:H:537:ARG:NH1	1:H:539:ASN:HB3	2.35	0.42
1:I:537:ARG:NH1	1:I:539:ASN:HB3	2.35	0.42
1:K:281:THR:CG2	1:K:584:ARG:HH21	2.33	0.42
1:K:476:HIS:CE1	1:8:480:LEU:HD23	2.55	0.42
1:K:537:ARG:NH1	1:K:539:ASN:HB3	2.35	0.42
1:L:281:THR:CG2	1:L:584:ARG:HH21	2.33	0.42
1:M:123:PHE:O	1:M:462:TYR:OH	2.16	0.42
1:M:476:HIS:CE1	1:2:480:LEU:HD23	2.55	0.42
1:P:281:THR:CG2	1:P:584:ARG:HH21	2.33	0.42
1:Q:192:ILE:HD11	1:Q:464:GLN:O	2.20	0.42
1:R:277:ARG:HB3	1:R:584:ARG:NH1	2.34	0.42
1:U:506:ASP:OD1	1:U:507:GLN:N	2.53	0.42
1:V:277:ARG:HB3	1:V:584:ARG:NH1	2.34	0.42
1:W:76:PRO:O	1:W:517:ARG:NH2	2.53	0.42
1:X:344:ASN:HB3	1:5:413:ILE:HG12	2.02	0.42
1:Z:113:LEU:CD1	1:Z:115:ASP:HB2	2.50	0.42
1:Z:476:HIS:CE1	1:w:480:LEU:HD23	2.55	0.42
1:2:47:TYR:CD2	1:i:255:ILE:HD13	2.54	0.42
1:3:189:THR:N	1:3:495:GLN:HE22	2.14	0.42
1:4:113:LEU:CD1	1:4:115:ASP:HB2	2.50	0.42
1:4:537:ARG:NH1	1:4:539:ASN:HB3	2.35	0.42
1:6:506:ASP:OD1	1:6:507:GLN:N	2.53	0.42
1:a:277:ARG:HB3	1:a:584:ARG:NH1	2.34	0.42
1:d:537:ARG:NH1	1:d:539:ASN:HB3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:113:LEU:CD1	1:f:115:ASP:HB2	2.50	0.42
1:f:255:ILE:HB	1:h:47:TYR:HB3	2.01	0.42
1:f:281:THR:CG2	1:f:584:ARG:HH21	2.33	0.42
1:g:281:THR:CG2	1:g:584:ARG:HH21	2.33	0.42
1:g:558:TYR:OH	1:g:576:PRO:O	2.20	0.42
1:i:269:TYR:OH	1:i:491:ASN:O	2.36	0.42
1:j:192:ILE:HD11	1:j:464:GLN:O	2.20	0.42
1:j:506:ASP:OD1	1:j:507:GLN:N	2.53	0.42
1:m:281:THR:CG2	1:m:584:ARG:HH21	2.33	0.42
1:n:76:PRO:O	1:n:517:ARG:NH2	2.53	0.42
1:o:113:LEU:CD1	1:o:115:ASP:HB2	2.50	0.42
1:o:503:ASN:O	1:o:517:ARG:HB2	2.19	0.42
1:p:434:LEU:HD12	1:p:435:ALA:N	2.34	0.42
1:p:506:ASP:OD1	1:p:507:GLN:N	2.53	0.42
1:p:537:ARG:NH1	1:p:539:ASN:HB3	2.35	0.42
1:r:281:THR:CG2	1:r:584:ARG:HH21	2.33	0.42
1:r:434:LEU:HD12	1:r:435:ALA:N	2.34	0.42
1:r:537:ARG:NH1	1:r:539:ASN:HB3	2.35	0.42
1:s:434:LEU:HD12	1:s:435:ALA:N	2.34	0.42
1:v:76:PRO:O	1:v:517:ARG:NH2	2.53	0.42
1:w:113:LEU:CD1	1:w:115:ASP:HB2	2.50	0.42
1:w:537:ARG:NH1	1:w:539:ASN:HB3	2.35	0.42
1:7:105:GLU:HG2	1:7:215:PHE:HD2	1.84	0.42
1:7:115:ASP:OD2	1:7:197:THR:HG22	2.19	0.42
1:A:434:LEU:HD12	1:A:435:ALA:N	2.34	0.42
1:B:101:ASP:CG	1:L:286:ARG:HH22	2.26	0.42
1:I:434:LEU:HD12	1:I:435:ALA:N	2.34	0.42
1:K:407:TRP:CD1	1:K:410:ASN:N	2.85	0.42
1:L:113:LEU:CD1	1:L:115:ASP:HB2	2.50	0.42
1:M:113:LEU:CD1	1:M:115:ASP:HB2	2.50	0.42
1:M:434:LEU:HD12	1:M:435:ALA:N	2.34	0.42
1:M:503:ASN:O	1:M:517:ARG:HB2	2.19	0.42
1:N:115:ASP:OD2	1:N:197:THR:HG22	2.19	0.42
1:O:47:TYR:HB3	1:P:255:ILE:HB	2.01	0.42
1:P:506:ASP:OD1	1:P:507:GLN:N	2.53	0.42
1:Q:113:LEU:CD1	1:Q:115:ASP:HB2	2.50	0.42
1:Q:506:ASP:OD1	1:Q:507:GLN:N	2.53	0.42
1:S:76:PRO:O	1:S:517:ARG:NH2	2.53	0.42
1:T:76:PRO:O	1:T:517:ARG:NH2	2.53	0.42
1:U:115:ASP:OD2	1:U:197:THR:HG22	2.19	0.42
1:V:558:TYR:OH	1:V:576:PRO:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:277:ARG:HB3	1:X:584:ARG:NH1	2.34	0.42
1:X:476:HIS:CE1	1:5:480:LEU:HD23	2.55	0.42
1:Y:47:TYR:HB3	1:x:255:ILE:HB	2.02	0.42
1:Y:76:PRO:O	1:Y:517:ARG:NH2	2.53	0.42
1:Y:113:LEU:CD1	1:Y:115:ASP:HB2	2.50	0.42
1:Y:506:ASP:OD1	1:Y:507:GLN:N	2.53	0.42
1:1:113:LEU:CD1	1:1:115:ASP:HB2	2.50	0.42
1:1:115:ASP:OD2	1:1:197:THR:HG22	2.19	0.42
1:2:277:ARG:HB3	1:2:584:ARG:NH1	2.34	0.42
1:5:281:THR:H	1:5:401:ASN:ND2	2.11	0.42
1:a:47:TYR:HB3	1:u:255:ILE:HB	2.01	0.42
1:b:113:LEU:CD1	1:b:115:ASP:HB2	2.50	0.42
1:c:113:LEU:CD1	1:c:115:ASP:HB2	2.50	0.42
1:c:506:ASP:OD1	1:c:507:GLN:N	2.53	0.42
1:g:537:ARG:NH1	1:g:539:ASN:HB3	2.35	0.42
1:h:115:ASP:OD2	1:h:197:THR:HG22	2.19	0.42
1:i:113:LEU:CD1	1:i:115:ASP:HB2	2.50	0.42
1:i:434:LEU:HD12	1:i:435:ALA:N	2.34	0.42
1:l:537:ARG:NH1	1:l:539:ASN:HB3	2.35	0.42
1:m:113:LEU:CD1	1:m:115:ASP:HB2	2.50	0.42
1:n:344:ASN:HB3	1:p:413:ILE:HG12	2.02	0.42
1:n:354:LYS:HD2	1:p:319:ILE:HD11	2.02	0.42
1:n:537:ARG:NH1	1:n:539:ASN:HB3	2.35	0.42
1:s:553:GLN:NE2	1:s:562:GLU:OE1	2.53	0.42
1:t:506:ASP:OD1	1:t:507:GLN:N	2.53	0.42
1:u:105:GLU:HG2	1:u:215:PHE:HD2	1.84	0.42
1:x:76:PRO:O	1:x:517:ARG:NH2	2.53	0.42
1:x:105:GLU:HG2	1:x:215:PHE:HD2	1.84	0.42
1:y:192:ILE:HD11	1:y:464:GLN:O	2.20	0.42
1:y:281:THR:CG2	1:y:584:ARG:HH21	2.33	0.42
1:y:553:GLN:NE2	1:y:562:GLU:OE1	2.53	0.42
1:A:553:GLN:NE2	1:A:562:GLU:OE1	2.53	0.42
1:B:319:ILE:HD11	1:J:354:LYS:HD2	2.02	0.42
1:D:192:ILE:HD11	1:D:464:GLN:O	2.20	0.42
1:E:344:ASN:HB3	1:F:413:ILE:HG12	2.02	0.42
1:F:407:TRP:CD1	1:F:410:ASN:N	2.85	0.42
1:F:476:HIS:CE1	1:Q:480:LEU:HD23	2.55	0.42
1:G:407:TRP:CD1	1:G:410:ASN:N	2.85	0.42
1:H:76:PRO:O	1:H:517:ARG:NH2	2.53	0.42
1:H:506:ASP:OD1	1:H:507:GLN:N	2.53	0.42
1:I:105:GLU:HG2	1:I:215:PHE:HD2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:281:THR:CG2	1:I:584:ARG:HH21	2.33	0.42
1:J:537:ARG:NH1	1:J:539:ASN:HB3	2.35	0.42
1:L:277:ARG:HB3	1:L:584:ARG:NH1	2.34	0.42
1:M:192:ILE:HD11	1:M:464:GLN:O	2.20	0.42
1:N:105:GLU:HG2	1:N:215:PHE:HD2	1.84	0.42
1:N:113:LEU:HD23	1:N:211:TYR:CD1	2.49	0.42
1:O:115:ASP:OD2	1:O:197:THR:HG22	2.19	0.42
1:P:553:GLN:NE2	1:P:562:GLU:OE1	2.53	0.42
1:R:76:PRO:O	1:R:517:ARG:NH2	2.53	0.42
1:S:506:ASP:OD1	1:S:507:GLN:N	2.53	0.42
1:V:113:LEU:CD1	1:V:115:ASP:HB2	2.50	0.42
1:V:281:THR:CG2	1:V:584:ARG:HH21	2.33	0.42
1:W:537:ARG:NH1	1:W:539:ASN:HB3	2.35	0.42
1:X:113:LEU:CD1	1:X:115:ASP:HB2	2.50	0.42
1:3:76:PRO:O	1:3:517:ARG:NH2	2.53	0.42
1:4:480:LEU:HD23	1:f:476:HIS:CE1	2.55	0.42
1:a:281:THR:CG2	1:a:584:ARG:HH21	2.33	0.42
1:b:76:PRO:O	1:b:517:ARG:NH2	2.53	0.42
1:b:277:ARG:HB3	1:b:584:ARG:NH1	2.34	0.42
1:c:76:PRO:O	1:c:517:ARG:NH2	2.53	0.42
1:c:101:ASP:CG	1:e:286:ARG:HH22	2.25	0.42
1:h:113:LEU:CD1	1:h:115:ASP:HB2	2.50	0.42
1:i:537:ARG:NH1	1:i:539:ASN:HB3	2.35	0.42
1:k:476:HIS:CE1	1:m:480:LEU:HD23	2.55	0.42
1:l:413:ILE:HG12	1:m:344:ASN:HB3	2.02	0.42
1:m:277:ARG:HB3	1:m:584:ARG:NH1	2.34	0.42
1:n:113:LEU:CD1	1:n:115:ASP:HB2	2.50	0.42
1:o:506:ASP:OD1	1:o:507:GLN:N	2.53	0.42
1:t:115:ASP:OD2	1:t:197:THR:HG22	2.19	0.42
1:u:76:PRO:O	1:u:517:ARG:NH2	2.53	0.42
1:y:506:ASP:OD1	1:y:507:GLN:N	2.53	0.42
1:z:314:SER:HB2	1:7:392:LYS:HZ2	1.82	0.42
1:z:480:LEU:HD23	1:7:476:HIS:CE1	2.55	0.42
1:8:281:THR:H	1:8:401:ASN:ND2	2.12	0.42
1:A:281:THR:H	1:A:401:ASN:ND2	2.12	0.42
1:D:480:LEU:HD23	1:N:476:HIS:CE1	2.55	0.42
1:E:113:LEU:CD1	1:E:115:ASP:HB2	2.50	0.42
1:E:537:ARG:NH1	1:E:539:ASN:HB3	2.35	0.42
1:E:553:GLN:NE2	1:E:562:GLU:OE1	2.53	0.42
1:I:113:LEU:CD1	1:I:115:ASP:HB2	2.50	0.42
1:J:192:ILE:HD11	1:J:464:GLN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:407:TRP:CD1	1:J:410:ASN:N	2.85	0.42
1:J:553:GLN:NE2	1:J:562:GLU:OE1	2.53	0.42
1:K:255:ILE:HD13	1:7:47:TYR:CD2	2.55	0.42
1:L:506:ASP:OD1	1:L:507:GLN:N	2.53	0.42
1:M:537:ARG:NH1	1:M:539:ASN:HB3	2.35	0.42
1:N:76:PRO:O	1:N:517:ARG:NH2	2.53	0.42
1:N:553:GLN:NE2	1:N:562:GLU:OE1	2.53	0.42
1:R:480:LEU:HD23	1:S:476:HIS:CE1	2.55	0.42
1:R:553:GLN:NE2	1:R:562:GLU:OE1	2.53	0.42
1:T:553:GLN:NE2	1:T:562:GLU:OE1	2.53	0.42
1:X:76:PRO:O	1:X:517:ARG:NH2	2.53	0.42
1:Z:537:ARG:NH1	1:Z:539:ASN:HB3	2.35	0.42
1:1:189:THR:N	1:1:495:GLN:HE22	2.14	0.42
1:1:553:GLN:NE2	1:1:562:GLU:OE1	2.53	0.42
1:2:76:PRO:O	1:2:517:ARG:NH2	2.53	0.42
1:2:537:ARG:NH1	1:2:539:ASN:HB3	2.35	0.42
1:3:277:ARG:HB3	1:3:584:ARG:NH1	2.34	0.42
1:6:413:ILE:HG12	1:b:344:ASN:HB3	2.02	0.42
1:6:480:LEU:HD23	1:b:476:HIS:CE1	2.55	0.42
1:a:113:LEU:CD1	1:a:115:ASP:HB2	2.50	0.42
1:c:553:GLN:NE2	1:c:562:GLU:OE1	2.53	0.42
1:d:76:PRO:O	1:d:517:ARG:NH2	2.53	0.42
1:d:277:ARG:HB3	1:d:584:ARG:NH1	2.34	0.42
1:d:506:ASP:OD1	1:d:507:GLN:N	2.53	0.42
1:e:192:ILE:HD11	1:e:464:GLN:O	2.20	0.42
1:e:537:ARG:NH1	1:e:539:ASN:HB3	2.35	0.42
1:f:537:ARG:NH1	1:f:539:ASN:HB3	2.35	0.42
1:i:76:PRO:O	1:i:517:ARG:NH2	2.53	0.42
1:i:503:ASN:O	1:i:517:ARG:HB2	2.19	0.42
1:k:101:ASP:CG	1:m:286:ARG:HH22	2.26	0.42
1:k:319:ILE:HD11	1:l:354:LYS:HD2	2.02	0.42
1:l:105:GLU:HG2	1:l:215:PHE:HD2	1.84	0.42
1:l:192:ILE:HD11	1:l:464:GLN:O	2.20	0.42
1:m:506:ASP:OD1	1:m:507:GLN:N	2.53	0.42
1:m:553:GLN:NE2	1:m:562:GLU:OE1	2.53	0.42
1:n:553:GLN:NE2	1:n:562:GLU:OE1	2.53	0.42
1:q:407:TRP:CD1	1:q:410:ASN:N	2.85	0.42
1:r:105:GLU:HG2	1:r:215:PHE:HD2	1.84	0.42
1:r:113:LEU:CD1	1:r:115:ASP:HB2	2.50	0.42
1:s:537:ARG:NH1	1:s:539:ASN:HB3	2.35	0.42
1:u:480:LEU:HD23	1:v:476:HIS:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:553:GLN:NE2	1:u:562:GLU:OE1	2.53	0.42
1:v:506:ASP:OD1	1:v:507:GLN:N	2.53	0.42
1:x:553:GLN:NE2	1:x:562:GLU:OE1	2.53	0.42
1:z:192:ILE:HD11	1:z:464:GLN:O	2.20	0.42
1:7:76:PRO:O	1:7:517:ARG:NH2	2.53	0.42
1:7:553:GLN:NE2	1:7:562:GLU:OE1	2.53	0.42
1:8:115:ASP:OD2	1:8:197:THR:HG22	2.19	0.42
1:A:537:ARG:NH1	1:A:539:ASN:HB3	2.35	0.41
1:B:192:ILE:HD11	1:B:464:GLN:O	2.20	0.41
1:B:476:HIS:CE1	1:L:480:LEU:HD23	2.55	0.41
1:B:553:GLN:NE2	1:B:562:GLU:OE1	2.53	0.41
1:C:503:ASN:O	1:C:517:ARG:HB2	2.19	0.41
1:F:113:LEU:CD1	1:F:115:ASP:HB2	2.50	0.41
1:G:192:ILE:HD11	1:G:464:GLN:O	2.20	0.41
1:H:113:LEU:CD1	1:H:115:ASP:HB2	2.50	0.41
1:H:277:ARG:HB3	1:H:584:ARG:NH1	2.34	0.41
1:H:553:GLN:NE2	1:H:562:GLU:OE1	2.53	0.41
1:J:76:PRO:O	1:J:517:ARG:NH2	2.53	0.41
1:K:76:PRO:O	1:K:517:ARG:NH2	2.53	0.41
1:L:553:GLN:NE2	1:L:562:GLU:OE1	2.53	0.41
1:M:354:LYS:HD2	1:2:319:ILE:HD11	2.02	0.41
1:N:113:LEU:CD1	1:N:115:ASP:HB2	2.50	0.41
1:N:480:LEU:HD23	1:P:476:HIS:CE1	2.55	0.41
1:O:319:ILE:HD11	1:g:354:LYS:HD2	2.02	0.41
1:Q:553:GLN:NE2	1:Q:562:GLU:OE1	2.53	0.41
1:R:255:ILE:HB	1:V:47:TYR:HB3	2.01	0.41
1:S:281:THR:H	1:S:401:ASN:ND2	2.12	0.41
1:U:76:PRO:O	1:U:517:ARG:NH2	2.53	0.41
1:W:192:ILE:HD11	1:W:464:GLN:O	2.20	0.41
1:W:281:THR:CG2	1:W:584:ARG:HH21	2.33	0.41
1:W:327:GLU:HB3	1:Y:102:ASP:HA	2.02	0.41
1:Y:553:GLN:NE2	1:Y:562:GLU:OE1	2.53	0.41
1:1:192:ILE:HD11	1:1:464:GLN:O	2.20	0.41
1:3:319:ILE:HD11	1:i:354:LYS:HD2	2.02	0.41
1:4:506:ASP:OD1	1:4:507:GLN:N	2.53	0.41
1:c:413:ILE:HG12	1:d:344:ASN:HB3	2.02	0.41
1:c:480:LEU:HD23	1:d:476:HIS:CE1	2.55	0.41
1:d:113:LEU:CD1	1:d:115:ASP:HB2	2.50	0.41
1:h:192:ILE:HD11	1:h:464:GLN:O	2.20	0.41
1:h:281:THR:CG2	1:h:584:ARG:HH21	2.33	0.41
1:h:553:GLN:NE2	1:h:562:GLU:OE1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:47:TYR:HB3	1:7:255:ILE:HB	2.01	0.41
1:i:192:ILE:HD11	1:i:464:GLN:O	2.20	0.41
1:j:281:THR:CG2	1:j:584:ARG:HH21	2.33	0.41
1:j:503:ASN:O	1:j:517:ARG:HB2	2.19	0.41
1:k:537:ARG:NH1	1:k:539:ASN:HB3	2.35	0.41
1:k:553:GLN:NE2	1:k:562:GLU:OE1	2.53	0.41
1:l:76:PRO:O	1:l:517:ARG:NH2	2.53	0.41
1:l:407:TRP:CD1	1:l:410:ASN:N	2.85	0.41
1:l:553:GLN:NE2	1:l:562:GLU:OE1	2.53	0.41
1:m:192:ILE:HD11	1:m:464:GLN:O	2.20	0.41
1:m:537:ARG:NH1	1:m:539:ASN:HB3	2.35	0.41
1:o:480:LEU:HD23	1:p:476:HIS:CE1	2.55	0.41
1:o:553:GLN:NE2	1:o:562:GLU:OE1	2.53	0.41
1:p:47:TYR:HB3	1:q:255:ILE:HB	2.01	0.41
1:s:76:PRO:O	1:s:517:ARG:NH2	2.53	0.41
1:x:506:ASP:OD1	1:x:507:GLN:N	2.53	0.41
1:y:476:HIS:CE1	1:7:480:LEU:HD23	2.55	0.41
1:7:113:LEU:CD1	1:7:115:ASP:HB2	2.50	0.41
1:8:414:GLN:NE2	1:8:422:PRO:HG3	2.35	0.41
1:A:76:PRO:O	1:A:517:ARG:NH2	2.53	0.41
1:A:506:ASP:OD1	1:A:507:GLN:N	2.53	0.41
1:B:413:ILE:HG12	1:J:344:ASN:HB3	2.02	0.41
1:B:537:ARG:NH1	1:B:539:ASN:HB3	2.35	0.41
1:C:281:THR:CG2	1:C:584:ARG:HH21	2.33	0.41
1:C:395:TYR:CD2	1:C:576:PRO:HG2	2.56	0.41
1:C:414:GLN:NE2	1:C:422:PRO:HG3	2.36	0.41
1:D:537:ARG:NH1	1:D:539:ASN:HB3	2.35	0.41
1:E:476:HIS:CE1	1:F:480:LEU:HD23	2.55	0.41
1:F:76:PRO:O	1:F:517:ARG:NH2	2.53	0.41
1:F:344:ASN:HB3	1:Q:413:ILE:HG12	2.02	0.41
1:G:47:TYR:HB3	1:W:255:ILE:HB	2.01	0.41
1:G:319:ILE:HD11	1:I:354:LYS:HD2	2.02	0.41
1:I:414:GLN:NE2	1:I:422:PRO:HG3	2.35	0.41
1:J:113:LEU:CD1	1:J:115:ASP:HB2	2.50	0.41
1:J:413:ILE:HG12	1:L:344:ASN:HB3	2.03	0.41
1:J:506:ASP:OD1	1:J:507:GLN:N	2.53	0.41
1:K:180:LEU:HD12	1:K:495:GLN:O	2.21	0.41
1:K:192:ILE:HD11	1:K:464:GLN:O	2.20	0.41
1:L:192:ILE:HD11	1:L:464:GLN:O	2.20	0.41
1:L:537:ARG:NH1	1:L:539:ASN:HB3	2.35	0.41
1:M:47:TYR:HB3	1:N:255:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:76:PRO:O	1:M:517:ARG:NH2	2.53	0.41
1:M:506:ASP:OD1	1:M:507:GLN:N	2.53	0.41
1:N:47:TYR:HB3	1:g:255:ILE:HB	2.01	0.41
1:O:281:THR:H	1:O:401:ASN:ND2	2.12	0.41
1:O:414:GLN:NE2	1:O:422:PRO:HG3	2.36	0.41
1:O:480:LEU:HD23	1:g:476:HIS:CE1	2.55	0.41
1:R:286:ARG:HH22	1:S:101:ASP:CG	2.26	0.41
1:T:413:ILE:HG12	1:4:344:ASN:HB3	2.02	0.41
1:T:506:ASP:OD1	1:T:507:GLN:N	2.53	0.41
1:T:537:ARG:NH1	1:T:539:ASN:HB3	2.35	0.41
1:U:142:SER:HG	1:U:531:THR:HG1	1.67	0.41
1:U:180:LEU:HD12	1:U:495:GLN:O	2.21	0.41
1:V:286:ARG:HH22	1:5:101:ASP:CG	2.26	0.41
1:X:192:ILE:HD11	1:X:464:GLN:O	2.20	0.41
1:Y:180:LEU:HD12	1:Y:495:GLN:O	2.21	0.41
1:Y:414:GLN:NE2	1:Y:422:PRO:HG3	2.35	0.41
1:Z:180:LEU:HD12	1:Z:495:GLN:O	2.21	0.41
1:Z:255:ILE:HB	1:1:47:TYR:HB3	2.01	0.41
1:Z:344:ASN:HB3	1:w:413:ILE:HG12	2.02	0.41
1:1:281:THR:CG2	1:1:584:ARG:HH21	2.33	0.41
1:1:480:LEU:HD23	1:8:476:HIS:CE1	2.55	0.41
1:3:537:ARG:NH1	1:3:539:ASN:HB3	2.35	0.41
1:5:113:LEU:CD1	1:5:115:ASP:HB2	2.50	0.41
1:6:113:LEU:CD1	1:6:115:ASP:HB2	2.50	0.41
1:6:281:THR:H	1:6:401:ASN:ND2	2.12	0.41
1:6:344:ASN:HB3	1:a:413:ILE:HG12	2.02	0.41
1:a:553:GLN:NE2	1:a:562:GLU:OE1	2.53	0.41
1:b:192:ILE:HD11	1:b:464:GLN:O	2.20	0.41
1:d:553:GLN:NE2	1:d:562:GLU:OE1	2.53	0.41
1:e:281:THR:CG2	1:e:584:ARG:HH21	2.33	0.41
1:g:76:PRO:O	1:g:517:ARG:NH2	2.53	0.41
1:h:76:PRO:O	1:h:517:ARG:NH2	2.53	0.41
1:h:506:ASP:OD1	1:h:507:GLN:N	2.53	0.41
1:j:414:GLN:NE2	1:j:422:PRO:HG3	2.36	0.41
1:l:180:LEU:HD12	1:l:495:GLN:O	2.21	0.41
1:o:413:ILE:HG12	1:p:344:ASN:HB3	2.02	0.41
1:p:76:PRO:O	1:p:517:ARG:NH2	2.53	0.41
1:p:113:LEU:CD1	1:p:115:ASP:HB2	2.50	0.41
1:p:115:ASP:OD2	1:p:197:THR:HG22	2.19	0.41
1:p:255:ILE:HB	1:u:47:TYR:HB3	2.01	0.41
1:p:407:TRP:CD1	1:p:410:ASN:N	2.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:181:ASP:HB2	1:q:253:GLN:HE22	1.86	0.41
1:q:189:THR:N	1:q:495:GLN:HE22	2.14	0.41
1:q:192:ILE:HD11	1:q:464:GLN:O	2.20	0.41
1:q:319:ILE:HD11	1:r:354:LYS:HD2	2.02	0.41
1:r:480:LEU:HD23	1:s:476:HIS:CE1	2.55	0.41
1:s:189:THR:N	1:s:495:GLN:HE22	2.14	0.41
1:t:76:PRO:O	1:t:517:ARG:NH2	2.53	0.41
1:u:286:ARG:HH22	1:v:101:ASP:CG	2.26	0.41
1:v:553:GLN:NE2	1:v:562:GLU:OE1	2.53	0.41
1:w:506:ASP:OD1	1:w:507:GLN:N	2.53	0.41
1:7:113:LEU:HD23	1:7:211:TYR:CD1	2.49	0.41
1:A:192:ILE:HD11	1:A:464:GLN:O	2.20	0.41
1:A:480:LEU:HD23	1:G:476:HIS:CE1	2.56	0.41
1:B:115:ASP:OD2	1:B:197:THR:HG22	2.19	0.41
1:B:344:ASN:HB3	1:L:413:ILE:HG12	2.03	0.41
1:C:344:ASN:HB3	1:M:413:ILE:HG12	2.03	0.41
1:D:344:ASN:HB3	1:P:413:ILE:HG12	2.02	0.41
1:E:192:ILE:HD11	1:E:464:GLN:O	2.20	0.41
1:F:115:ASP:OD2	1:F:197:THR:HG22	2.19	0.41
1:G:181:ASP:HB2	1:G:253:GLN:HE22	1.86	0.41
1:H:286:ARG:HH22	1:W:101:ASP:CG	2.24	0.41
1:H:392:LYS:NZ	1:Y:314:SER:HB2	2.35	0.41
1:H:395:TYR:CD2	1:H:576:PRO:HG2	2.56	0.41
1:H:410:ASN:CB	1:W:347:THR:HG21	2.49	0.41
1:I:76:PRO:O	1:I:517:ARG:NH2	2.53	0.41
1:J:180:LEU:HD12	1:J:495:GLN:O	2.21	0.41
1:L:76:PRO:O	1:L:517:ARG:NH2	2.53	0.41
1:L:558:TYR:OH	1:L:576:PRO:O	2.20	0.41
1:M:553:GLN:NE2	1:M:562:GLU:OE1	2.53	0.41
1:P:414:GLN:NE2	1:P:422:PRO:HG3	2.35	0.41
1:R:414:GLN:NE2	1:R:422:PRO:HG3	2.36	0.41
1:S:47:TYR:HB3	1:4:255:ILE:HB	2.01	0.41
1:S:281:THR:CG2	1:S:584:ARG:HH21	2.33	0.41
1:S:480:LEU:HD23	1:U:476:HIS:CE1	2.55	0.41
1:S:553:GLN:NE2	1:S:562:GLU:OE1	2.53	0.41
1:T:47:TYR:HB3	1:U:255:ILE:HB	2.01	0.41
1:V:180:LEU:HD12	1:V:495:GLN:O	2.21	0.41
1:V:344:ASN:HB3	1:X:413:ILE:HG12	2.03	0.41
1:V:476:HIS:CE1	1:X:480:LEU:HD23	2.55	0.41
1:V:553:GLN:NE2	1:V:562:GLU:OE1	2.53	0.41
1:Y:395:TYR:CD2	1:Y:576:PRO:HG2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:76:PRO:O	1:1:517:ARG:NH2	2.53	0.41
1:2:414:GLN:NE2	1:2:422:PRO:HG3	2.36	0.41
1:3:414:GLN:NE2	1:3:422:PRO:HG3	2.36	0.41
1:4:192:ILE:HD11	1:4:464:GLN:O	2.20	0.41
1:5:181:ASP:HB2	1:5:253:GLN:HE22	1.86	0.41
1:6:192:ILE:HD11	1:6:464:GLN:O	2.20	0.41
1:6:354:LYS:HD2	1:a:319:ILE:HD11	2.03	0.41
1:6:407:TRP:CD1	1:6:410:ASN:N	2.85	0.41
1:6:476:HIS:CE1	1:a:480:LEU:HD23	2.55	0.41
1:6:553:GLN:NE2	1:6:562:GLU:OE1	2.53	0.41
1:a:180:LEU:HD12	1:a:495:GLN:O	2.21	0.41
1:a:414:GLN:NE2	1:a:422:PRO:HG3	2.36	0.41
1:c:180:LEU:HD12	1:c:495:GLN:O	2.21	0.41
1:c:181:ASP:HB2	1:c:253:GLN:HE22	1.86	0.41
1:c:192:ILE:HD11	1:c:464:GLN:O	2.20	0.41
1:c:354:LYS:HD2	1:e:319:ILE:HD11	2.03	0.41
1:c:395:TYR:CD2	1:c:576:PRO:HG2	2.56	0.41
1:c:414:GLN:NE2	1:c:422:PRO:HG3	2.35	0.41
1:f:180:LEU:HD12	1:f:495:GLN:O	2.21	0.41
1:g:180:LEU:HD12	1:g:495:GLN:O	2.21	0.41
1:g:192:ILE:HD11	1:g:464:GLN:O	2.20	0.41
1:i:506:ASP:OD1	1:i:507:GLN:N	2.53	0.41
1:i:553:GLN:NE2	1:i:562:GLU:OE1	2.53	0.41
1:j:395:TYR:CD2	1:j:576:PRO:HG2	2.56	0.41
1:k:192:ILE:HD11	1:k:464:GLN:O	2.20	0.41
1:k:281:THR:CG2	1:k:584:ARG:HH21	2.32	0.41
1:k:344:ASN:HB3	1:m:413:ILE:HG12	2.03	0.41
1:k:413:ILE:HG12	1:l:344:ASN:HB3	2.02	0.41
1:l:113:LEU:CD1	1:l:115:ASP:HB2	2.50	0.41
1:l:506:ASP:OD1	1:l:507:GLN:N	2.53	0.41
1:m:76:PRO:O	1:m:517:ARG:NH2	2.53	0.41
1:o:395:TYR:CD2	1:o:576:PRO:HG2	2.56	0.41
1:q:113:LEU:CD1	1:q:115:ASP:HB2	2.50	0.41
1:q:354:LYS:HD2	1:s:319:ILE:HD11	2.02	0.41
1:r:414:GLN:NE2	1:r:422:PRO:HG3	2.36	0.41
1:s:414:GLN:NE2	1:s:422:PRO:HG3	2.36	0.41
1:s:506:ASP:OD1	1:s:507:GLN:N	2.53	0.41
1:t:180:LEU:HD12	1:t:495:GLN:O	2.21	0.41
1:t:537:ARG:NH1	1:t:539:ASN:HB3	2.35	0.41
1:u:192:ILE:HD11	1:u:464:GLN:O	2.20	0.41
1:u:414:GLN:NE2	1:u:422:PRO:HG3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:47:TYR:HB3	1:w:255:ILE:HB	2.01	0.41
1:w:192:ILE:HD11	1:w:464:GLN:O	2.20	0.41
1:w:344:ASN:HB3	1:x:413:ILE:HG12	2.02	0.41
1:x:537:ARG:NH1	1:x:539:ASN:HB3	2.35	0.41
1:y:181:ASP:HB2	1:y:253:GLN:HE22	1.86	0.41
1:7:414:GLN:NE2	1:7:422:PRO:HG3	2.36	0.41
1:7:506:ASP:OD1	1:7:507:GLN:N	2.53	0.41
1:8:76:PRO:O	1:8:517:ARG:NH2	2.53	0.41
1:A:189:THR:N	1:A:495:GLN:HE22	2.14	0.41
1:A:319:ILE:HD11	1:G:354:LYS:HD2	2.02	0.41
1:A:414:GLN:NE2	1:A:422:PRO:HG3	2.36	0.41
1:B:76:PRO:O	1:B:517:ARG:NH2	2.53	0.41
1:B:354:LYS:HD2	1:L:319:ILE:HD11	2.02	0.41
1:B:407:TRP:CD1	1:B:410:ASN:N	2.85	0.41
1:C:354:LYS:HD2	1:M:319:ILE:HD11	2.02	0.41
1:D:76:PRO:O	1:D:517:ARG:NH2	2.53	0.41
1:G:113:LEU:CD1	1:G:115:ASP:HB2	2.50	0.41
1:G:189:THR:N	1:G:495:GLN:HE22	2.14	0.41
1:G:480:LEU:HD23	1:I:476:HIS:CE1	2.55	0.41
1:I:180:LEU:HD12	1:I:495:GLN:O	2.21	0.41
1:I:395:TYR:CD2	1:I:576:PRO:HG2	2.56	0.41
1:J:142:SER:HG	1:J:531:THR:HG1	1.68	0.41
1:K:392:LYS:HZ2	1:8:314:SER:HB2	1.85	0.41
1:N:414:GLN:NE2	1:N:422:PRO:HG3	2.36	0.41
1:O:76:PRO:O	1:O:517:ARG:NH2	2.53	0.41
1:O:181:ASP:HB2	1:O:253:GLN:HE22	1.86	0.41
1:O:476:HIS:CE1	1:h:480:LEU:HD23	2.55	0.41
1:O:553:GLN:NE2	1:O:562:GLU:OE1	2.53	0.41
1:P:181:ASP:HB2	1:P:253:GLN:HE22	1.86	0.41
1:Q:395:TYR:CD2	1:Q:576:PRO:HG2	2.56	0.41
1:Q:407:TRP:CD1	1:Q:410:ASN:N	2.85	0.41
1:R:180:LEU:HD12	1:R:495:GLN:O	2.21	0.41
1:R:192:ILE:HD11	1:R:464:GLN:O	2.20	0.41
1:R:395:TYR:CD2	1:R:576:PRO:HG2	2.56	0.41
1:R:506:ASP:OD1	1:R:507:GLN:N	2.53	0.41
1:T:395:TYR:CD2	1:T:576:PRO:HG2	2.56	0.41
1:U:537:ARG:NH1	1:U:539:ASN:HB3	2.35	0.41
1:V:103:ALA:HB3	1:V:219:ARG:HD2	2.03	0.41
1:V:414:GLN:NE2	1:V:422:PRO:HG3	2.36	0.41
1:W:414:GLN:NE2	1:W:422:PRO:HG3	2.36	0.41
1:Y:181:ASP:HB2	1:Y:253:GLN:HE22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:192:ILE:HD11	1:Y:464:GLN:O	2.20	0.41
1:1:180:LEU:HD12	1:1:495:GLN:O	2.20	0.41
1:1:319:ILE:HD11	1:8:354:LYS:HD2	2.02	0.41
1:1:506:ASP:OD1	1:1:507:GLN:N	2.53	0.41
1:2:181:ASP:HB2	1:2:253:GLN:HE22	1.86	0.41
1:2:395:TYR:CD2	1:2:576:PRO:HG2	2.56	0.41
1:3:395:TYR:CD2	1:3:576:PRO:HG2	2.56	0.41
1:4:413:ILE:HG12	1:f:344:ASN:HB3	2.02	0.41
1:4:414:GLN:NE2	1:4:422:PRO:HG3	2.35	0.41
1:5:395:TYR:CD2	1:5:576:PRO:HG2	2.56	0.41
1:5:407:TRP:CD1	1:5:410:ASN:N	2.85	0.41
1:5:553:GLN:NE2	1:5:562:GLU:OE1	2.53	0.41
1:6:76:PRO:O	1:6:517:ARG:NH2	2.53	0.41
1:6:277:ARG:HB3	1:6:584:ARG:NH1	2.34	0.41
1:a:103:ALA:HB3	1:a:219:ARG:HD2	2.03	0.41
1:a:344:ASN:HB3	1:b:413:ILE:HG12	2.03	0.41
1:b:414:GLN:NE2	1:b:422:PRO:HG3	2.35	0.41
1:c:102:ASP:HA	1:e:327:GLU:HB3	2.03	0.41
1:c:319:ILE:HD11	1:d:354:LYS:HD2	2.02	0.41
1:d:384:GLN:O	1:d:573:THR:OG1	2.27	0.41
1:d:395:TYR:CD2	1:d:576:PRO:HG2	2.56	0.41
1:h:180:LEU:HD12	1:h:495:GLN:O	2.21	0.41
1:i:413:ILE:HG12	1:j:344:ASN:HB3	2.03	0.41
1:k:115:ASP:OD2	1:k:197:THR:HG22	2.19	0.41
1:k:354:LYS:HD2	1:m:319:ILE:HD11	2.02	0.41
1:n:192:ILE:HD11	1:n:464:GLN:O	2.20	0.41
1:n:281:THR:CG2	1:n:584:ARG:HH21	2.33	0.41
1:n:414:GLN:NE2	1:n:422:PRO:HG3	2.36	0.41
1:n:476:HIS:CE1	1:p:480:LEU:HD23	2.55	0.41
1:o:407:TRP:CD1	1:o:410:ASN:N	2.85	0.41
1:p:192:ILE:HD11	1:p:464:GLN:O	2.20	0.41
1:r:76:PRO:O	1:r:517:ARG:NH2	2.53	0.41
1:r:180:LEU:HD12	1:r:495:GLN:O	2.21	0.41
1:r:395:TYR:CD2	1:r:576:PRO:HG2	2.56	0.41
1:t:255:ILE:HB	1:x:47:TYR:HB3	2.01	0.41
1:u:115:ASP:OD2	1:u:197:THR:HG22	2.19	0.41
1:u:506:ASP:OD1	1:u:507:GLN:N	2.53	0.41
1:v:281:THR:CG2	1:v:584:ARG:HH21	2.33	0.41
1:x:113:LEU:HD23	1:x:211:TYR:CD1	2.49	0.41
1:x:395:TYR:CD2	1:x:576:PRO:HG2	2.56	0.41
1:y:413:ILE:HG12	1:z:344:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:76:PRO:O	1:z:517:ARG:NH2	2.53	0.41
1:z:537:ARG:NH1	1:z:539:ASN:HB3	2.35	0.41
1:8:181:ASP:HB2	1:8:253:GLN:HE22	1.86	0.41
1:8:395:TYR:CD2	1:8:576:PRO:HG2	2.56	0.41
1:A:281:THR:CG2	1:A:584:ARG:HH21	2.33	0.41
1:A:344:ASN:CB	1:I:413:ILE:HG12	2.51	0.41
1:C:476:HIS:CE1	1:M:480:LEU:HD23	2.55	0.41
1:E:281:THR:CG2	1:E:584:ARG:HH21	2.33	0.41
1:F:103:ALA:HB3	1:F:219:ARG:HD2	2.03	0.41
1:G:537:ARG:NH1	1:G:539:ASN:HB3	2.35	0.41
1:H:384:GLN:O	1:H:573:THR:OG1	2.27	0.41
1:J:395:TYR:CD2	1:J:576:PRO:HG2	2.56	0.41
1:L:414:GLN:NE2	1:L:422:PRO:HG3	2.36	0.41
1:M:281:THR:CG2	1:M:584:ARG:HH21	2.33	0.41
1:N:395:TYR:CD2	1:N:576:PRO:HG2	2.56	0.41
1:N:413:ILE:HG12	1:P:344:ASN:HB3	2.03	0.41
1:N:506:ASP:OD1	1:N:507:GLN:N	2.53	0.41
1:O:344:ASN:HB3	1:h:413:ILE:HG12	2.02	0.41
1:O:395:TYR:CD2	1:O:576:PRO:HG2	2.56	0.41
1:O:413:ILE:HG12	1:g:344:ASN:HB3	2.02	0.41
1:R:103:ALA:HB3	1:R:219:ARG:HD2	2.03	0.41
1:R:407:TRP:CD1	1:R:410:ASN:N	2.85	0.41
1:S:103:ALA:HB3	1:S:219:ARG:HD2	2.03	0.41
1:S:113:LEU:CD1	1:S:115:ASP:HB2	2.50	0.41
1:S:192:ILE:HD11	1:S:464:GLN:O	2.20	0.41
1:T:113:LEU:HD23	1:T:211:TYR:CD1	2.49	0.41
1:T:414:GLN:NE2	1:T:422:PRO:HG3	2.36	0.41
1:V:319:ILE:HD11	1:5:354:LYS:HD2	2.03	0.41
1:V:413:ILE:HG12	1:5:344:ASN:HB3	2.02	0.41
1:W:103:ALA:HB3	1:W:219:ARG:HD2	2.03	0.41
1:W:113:LEU:CD1	1:W:115:ASP:HB2	2.50	0.41
1:W:286:ARG:HH22	1:Y:101:ASP:CG	2.26	0.41
1:X:207:ILE:HG12	1:Y:510:PRO:HG2	2.03	0.41
1:X:414:GLN:NE2	1:X:422:PRO:HG3	2.36	0.41
1:X:553:GLN:NE2	1:X:562:GLU:OE1	2.53	0.41
1:Z:76:PRO:O	1:Z:517:ARG:NH2	2.53	0.41
1:1:413:ILE:HG12	1:8:344:ASN:HB3	2.02	0.41
1:3:181:ASP:HB2	1:3:253:GLN:HE22	1.86	0.41
1:4:181:ASP:HB2	1:4:253:GLN:HE22	1.86	0.41
1:4:395:TYR:CD2	1:4:576:PRO:HG2	2.56	0.41
1:5:76:PRO:O	1:5:517:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:123:PHE:HB2	1:5:462:TYR:HE1	1.86	0.41
1:5:138:ILE:HD11	1:5:532:LEU:HD13	2.03	0.41
1:5:192:ILE:HD11	1:5:464:GLN:O	2.20	0.41
1:5:277:ARG:HB3	1:5:584:ARG:NH1	2.34	0.41
1:5:414:GLN:NE2	1:5:422:PRO:HG3	2.36	0.41
1:6:138:ILE:HD11	1:6:532:LEU:HD13	2.03	0.41
1:6:181:ASP:HB2	1:6:253:GLN:HE22	1.86	0.41
1:6:414:GLN:NE2	1:6:422:PRO:HG3	2.35	0.41
1:a:476:HIS:CE1	1:b:480:LEU:HD23	2.56	0.41
1:b:180:LEU:HD12	1:b:495:GLN:O	2.21	0.41
1:e:103:ALA:HB3	1:e:219:ARG:HD2	2.03	0.41
1:e:113:LEU:CD1	1:e:115:ASP:HB2	2.50	0.41
1:e:395:TYR:CD2	1:e:576:PRO:HG2	2.56	0.41
1:e:414:GLN:NE2	1:e:422:PRO:HG3	2.36	0.41
1:f:76:PRO:O	1:f:517:ARG:NH2	2.53	0.41
1:h:537:ARG:NH1	1:h:539:ASN:HB3	2.35	0.41
1:i:103:ALA:HB3	1:i:219:ARG:HD2	2.03	0.41
1:i:480:LEU:HD23	1:j:476:HIS:CE1	2.55	0.41
1:j:537:ARG:NH1	1:j:539:ASN:HB3	2.35	0.41
1:k:76:PRO:O	1:k:517:ARG:NH2	2.53	0.41
1:m:414:GLN:NE2	1:m:422:PRO:HG3	2.36	0.41
1:n:286:ARG:HH22	1:o:101:ASP:CG	2.26	0.41
1:o:180:LEU:HD12	1:o:495:GLN:O	2.21	0.41
1:p:103:ALA:HB3	1:p:219:ARG:HD2	2.03	0.41
1:p:181:ASP:HB2	1:p:253:GLN:HE22	1.86	0.41
1:q:537:ARG:NH1	1:q:539:ASN:HB3	2.35	0.41
1:t:123:PHE:HB2	1:t:462:TYR:HE1	1.86	0.41
1:t:476:HIS:CE1	1:v:480:LEU:HD23	2.55	0.41
1:u:180:LEU:HD12	1:u:495:GLN:O	2.21	0.41
1:u:413:ILE:HG12	1:v:344:ASN:HB3	2.02	0.41
1:v:113:LEU:CD1	1:v:115:ASP:HB2	2.50	0.41
1:v:192:ILE:HD11	1:v:464:GLN:O	2.20	0.41
1:v:395:TYR:CD2	1:v:576:PRO:HG2	2.56	0.41
1:w:395:TYR:CD2	1:w:576:PRO:HG2	2.56	0.41
1:w:414:GLN:NE2	1:w:422:PRO:HG3	2.35	0.41
1:x:123:PHE:HB2	1:x:462:TYR:HE1	1.86	0.41
1:y:344:ASN:HB3	1:7:413:ILE:HG12	2.03	0.41
1:y:395:TYR:CD2	1:y:576:PRO:HG2	2.56	0.41
1:8:553:GLN:NE2	1:8:562:GLU:OE1	2.53	0.41
1:A:344:ASN:HA	1:I:413:ILE:HA	2.03	0.41
1:B:281:THR:CG2	1:B:584:ARG:HH21	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:ARG:NH1	1:C:539:ASN:HB3	2.35	0.41
1:D:327:GLU:HB3	1:N:102:ASP:HA	2.03	0.41
1:D:395:TYR:CD2	1:D:576:PRO:HG2	2.56	0.41
1:E:180:LEU:HD12	1:E:495:GLN:O	2.21	0.41
1:E:286:ARG:HH22	1:Q:101:ASP:CG	2.26	0.41
1:E:414:GLN:NE2	1:E:422:PRO:HG3	2.36	0.41
1:F:180:LEU:HD12	1:F:495:GLN:O	2.21	0.41
1:F:192:ILE:HD11	1:F:464:GLN:O	2.20	0.41
1:F:255:ILE:HB	1:R:47:TYR:HB3	2.01	0.41
1:G:76:PRO:O	1:G:517:ARG:NH2	2.53	0.41
1:G:281:THR:CG2	1:G:584:ARG:HH21	2.33	0.41
1:L:103:ALA:HB3	1:L:219:ARG:HD2	2.03	0.41
1:L:138:ILE:HD11	1:L:532:LEU:HD13	2.03	0.41
1:M:103:ALA:HB3	1:M:219:ARG:HD2	2.03	0.41
1:M:180:LEU:HD12	1:M:495:GLN:O	2.21	0.41
1:M:344:ASN:HB3	1:2:413:ILE:HG12	2.02	0.41
1:O:354:LYS:HD2	1:h:319:ILE:HD11	2.02	0.41
1:P:395:TYR:CD2	1:P:576:PRO:HG2	2.56	0.41
1:Q:180:LEU:HD12	1:Q:495:GLN:O	2.21	0.41
1:Q:384:GLN:O	1:Q:573:THR:OG1	2.27	0.41
1:R:81:TYR:CE2	1:R:248:THR:HG23	2.56	0.41
1:R:537:ARG:NH1	1:R:539:ASN:HB3	2.35	0.41
1:S:395:TYR:CD2	1:S:576:PRO:HG2	2.56	0.41
1:T:192:ILE:HD11	1:T:464:GLN:O	2.20	0.41
1:U:123:PHE:HB2	1:U:462:TYR:HE1	1.86	0.41
1:W:180:LEU:HD12	1:W:495:GLN:O	2.21	0.41
1:W:395:TYR:CD2	1:W:576:PRO:HG2	2.56	0.41
1:W:413:ILE:HG12	1:Y:344:ASN:HB3	2.03	0.41
1:X:180:LEU:HD12	1:X:495:GLN:O	2.21	0.41
1:X:181:ASP:HB2	1:X:253:GLN:HE22	1.86	0.41
1:Z:181:ASP:HB2	1:Z:253:GLN:HE22	1.86	0.41
1:1:537:ARG:NH1	1:1:539:ASN:HB3	2.35	0.41
1:3:413:ILE:HG12	1:i:344:ASN:HB3	2.02	0.41
1:5:81:TYR:CE2	1:5:248:THR:HG23	2.56	0.41
1:6:81:TYR:CE2	1:6:248:THR:HG23	2.56	0.41
1:6:101:ASP:CG	1:a:286:ARG:HH22	2.27	0.41
1:6:123:PHE:HB2	1:6:462:TYR:HE1	1.86	0.41
1:6:395:TYR:CD2	1:6:576:PRO:HG2	2.56	0.41
1:b:553:GLN:NE2	1:b:562:GLU:OE1	2.53	0.41
1:c:81:TYR:CE2	1:c:248:THR:HG23	2.56	0.41
1:c:138:ILE:HD11	1:c:532:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:281:THR:CG2	1:d:584:ARG:HH21	2.33	0.41
1:f:181:ASP:HB2	1:f:253:GLN:HE22	1.86	0.41
1:f:506:ASP:OD1	1:f:507:GLN:N	2.53	0.41
1:h:81:TYR:CE2	1:h:248:THR:HG23	2.56	0.41
1:i:180:LEU:HD12	1:i:495:GLN:O	2.21	0.41
1:i:181:ASP:HB2	1:i:253:GLN:HE22	1.86	0.41
1:i:319:ILE:HD11	1:j:354:LYS:HD2	2.02	0.41
1:o:138:ILE:HD11	1:o:532:LEU:HD13	2.03	0.41
1:p:180:LEU:HD12	1:p:495:GLN:O	2.21	0.41
1:p:414:GLN:NE2	1:p:422:PRO:HG3	2.35	0.41
1:q:76:PRO:O	1:q:517:ARG:NH2	2.53	0.41
1:q:81:TYR:CE2	1:q:248:THR:HG23	2.56	0.41
1:q:281:THR:CG2	1:q:584:ARG:HH21	2.33	0.41
1:q:344:ASN:HB3	1:s:413:ILE:HG12	2.02	0.41
1:q:480:LEU:HD23	1:r:476:HIS:CE1	2.55	0.41
1:s:192:ILE:HD11	1:s:464:GLN:O	2.20	0.41
1:s:281:THR:CG2	1:s:584:ARG:HH21	2.33	0.41
1:t:414:GLN:NE2	1:t:422:PRO:HG3	2.36	0.41
1:u:103:ALA:HB3	1:u:219:ARG:HD2	2.03	0.41
1:u:407:TRP:CD1	1:u:410:ASN:N	2.85	0.41
1:w:181:ASP:HB2	1:w:253:GLN:HE22	1.86	0.41
1:x:81:TYR:CE2	1:x:248:THR:HG23	2.56	0.41
1:x:192:ILE:HD11	1:x:464:GLN:O	2.20	0.41
1:x:414:GLN:NE2	1:x:422:PRO:HG3	2.36	0.41
1:y:414:GLN:NE2	1:y:422:PRO:HG3	2.36	0.41
1:z:81:TYR:CE2	1:z:248:THR:HG23	2.56	0.41
1:z:395:TYR:CD2	1:z:576:PRO:HG2	2.56	0.41
1:z:413:ILE:HG12	1:7:344:ASN:HB3	2.03	0.41
1:7:192:ILE:HD11	1:7:464:GLN:O	2.20	0.41
1:7:395:TYR:CD2	1:7:576:PRO:HG2	2.56	0.41
1:B:414:GLN:NE2	1:B:422:PRO:HG3	2.36	0.41
1:B:480:LEU:HD23	1:J:476:HIS:CE1	2.55	0.41
1:C:553:GLN:NE2	1:C:562:GLU:OE1	2.53	0.41
1:D:81:TYR:CE2	1:D:248:THR:HG23	2.56	0.41
1:D:180:LEU:HD12	1:D:495:GLN:O	2.21	0.41
1:D:344:ASN:CB	1:P:413:ILE:HG12	2.51	0.41
1:E:81:TYR:CE2	1:E:248:THR:HG23	2.56	0.41
1:F:181:ASP:HB2	1:F:253:GLN:HE22	1.86	0.41
1:F:414:GLN:NE2	1:F:422:PRO:HG3	2.36	0.41
1:G:81:TYR:CE2	1:G:248:THR:HG23	2.56	0.41
1:H:123:PHE:HB2	1:H:462:TYR:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:281:THR:CG2	1:H:584:ARG:HH21	2.33	0.41
1:I:103:ALA:HB3	1:I:219:ARG:HD2	2.03	0.41
1:I:181:ASP:HB2	1:I:253:GLN:HE22	1.86	0.41
1:I:553:GLN:NE2	1:I:562:GLU:OE1	2.53	0.41
1:K:81:TYR:CE2	1:K:248:THR:HG23	2.56	0.41
1:L:123:PHE:HB2	1:L:462:TYR:HE1	1.86	0.41
1:O:113:LEU:CD1	1:O:115:ASP:HB2	2.50	0.41
1:P:113:LEU:CD1	1:P:115:ASP:HB2	2.50	0.41
1:Q:138:ILE:HD11	1:Q:532:LEU:HD13	2.03	0.41
1:R:113:LEU:CD1	1:R:115:ASP:HB2	2.50	0.41
1:R:115:ASP:OD2	1:R:197:THR:HG22	2.19	0.41
1:R:181:ASP:HB2	1:R:253:GLN:HE22	1.86	0.41
1:R:413:ILE:HG12	1:S:344:ASN:HB3	2.02	0.41
1:T:81:TYR:CE2	1:T:248:THR:HG23	2.56	0.41
1:T:123:PHE:HB2	1:T:462:TYR:HE1	1.86	0.41
1:U:414:GLN:NE2	1:U:422:PRO:HG3	2.36	0.41
1:V:480:LEU:HD23	1:5:476:HIS:CE1	2.55	0.41
1:W:269:TYR:OH	1:W:491:ASN:O	2.36	0.41
1:X:113:LEU:HD23	1:X:211:TYR:CD1	2.49	0.41
1:Y:81:TYR:CE2	1:Y:248:THR:HG23	2.56	0.41
1:Y:138:ILE:HD11	1:Y:532:LEU:HD13	2.03	0.41
1:Z:101:ASP:CG	1:w:286:ARG:HH22	2.27	0.41
1:Z:506:ASP:OD1	1:Z:507:GLN:N	2.53	0.41
1:1:81:TYR:CE2	1:1:248:THR:HG23	2.56	0.41
1:2:81:TYR:CE2	1:2:248:THR:HG23	2.56	0.41
1:2:113:LEU:CD1	1:2:115:ASP:HB2	2.50	0.41
1:3:113:LEU:CD1	1:3:115:ASP:HB2	2.50	0.41
1:a:181:ASP:HB2	1:a:253:GLN:HE22	1.86	0.41
1:b:537:ARG:NH1	1:b:539:ASN:HB3	2.35	0.41
1:c:537:ARG:NH1	1:c:539:ASN:HB3	2.35	0.41
1:d:281:THR:H	1:d:401:ASN:ND2	2.12	0.41
1:e:180:LEU:HD12	1:e:495:GLN:O	2.21	0.41
1:e:269:TYR:OH	1:e:491:ASN:O	2.36	0.41
1:i:281:THR:CG2	1:i:584:ARG:HH21	2.33	0.41
1:j:553:GLN:NE2	1:j:562:GLU:OE1	2.53	0.41
1:k:407:TRP:CD1	1:k:410:ASN:N	2.85	0.41
1:k:414:GLN:NE2	1:k:422:PRO:HG3	2.36	0.41
1:k:480:LEU:HD23	1:l:476:HIS:CE1	2.55	0.41
1:l:395:TYR:CD2	1:l:576:PRO:HG2	2.56	0.41
1:l:480:LEU:HD23	1:m:476:HIS:CE1	2.55	0.41
1:m:103:ALA:HB3	1:m:219:ARG:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:123:PHE:HB2	1:m:462:TYR:HE1	1.86	0.41
1:m:138:ILE:HD11	1:m:532:LEU:HD13	2.03	0.41
1:n:81:TYR:CE2	1:n:248:THR:HG23	2.56	0.41
1:o:384:GLN:O	1:o:573:THR:OG1	2.27	0.41
1:q:138:ILE:HD11	1:q:532:LEU:HD13	2.03	0.41
1:r:103:ALA:HB3	1:r:219:ARG:HD2	2.03	0.41
1:r:181:ASP:HB2	1:r:253:GLN:HE22	1.86	0.41
1:u:81:TYR:CE2	1:u:248:THR:HG23	2.56	0.41
1:u:113:LEU:CD1	1:u:115:ASP:HB2	2.50	0.41
1:u:181:ASP:HB2	1:u:253:GLN:HE22	1.86	0.41
1:u:395:TYR:CD2	1:u:576:PRO:HG2	2.56	0.41
1:v:103:ALA:HB3	1:v:219:ARG:HD2	2.03	0.41
1:y:101:ASP:CG	1:7:286:ARG:HH22	2.26	0.41
1:z:327:GLU:HB3	1:7:102:ASP:HA	2.03	0.41
1:7:123:PHE:HB2	1:7:462:TYR:HE1	1.86	0.41
1:8:113:LEU:CD1	1:8:115:ASP:HB2	2.50	0.41
1:A:113:LEU:CD1	1:A:115:ASP:HB2	2.50	0.41
1:A:180:LEU:HD12	1:A:495:GLN:O	2.21	0.41
1:A:286:ARG:HH22	1:G:101:ASP:CG	2.26	0.41
1:A:395:TYR:CD2	1:A:576:PRO:HG2	2.56	0.41
1:B:113:LEU:CD1	1:B:115:ASP:HB2	2.50	0.41
1:B:123:PHE:HB2	1:B:462:TYR:HE1	1.86	0.41
1:D:113:LEU:CD1	1:D:115:ASP:HB2	2.50	0.41
1:D:553:GLN:NE2	1:D:562:GLU:OE1	2.53	0.41
1:F:281:THR:CG2	1:F:584:ARG:HH21	2.33	0.41
1:F:344:ASN:CB	1:Q:413:ILE:HG12	2.51	0.41
1:F:553:GLN:NE2	1:F:562:GLU:OE1	2.53	0.41
1:G:138:ILE:HD11	1:G:532:LEU:HD13	2.03	0.41
1:G:180:LEU:HD12	1:G:495:GLN:O	2.21	0.41
1:G:413:ILE:HG12	1:I:344:ASN:CB	2.51	0.41
1:H:138:ILE:HD11	1:H:532:LEU:HD13	2.03	0.41
1:H:192:ILE:HD11	1:H:464:GLN:O	2.20	0.41
1:I:123:PHE:HB2	1:I:462:TYR:HE1	1.86	0.41
1:J:103:ALA:HB3	1:J:219:ARG:HD2	2.03	0.41
1:K:344:ASN:HB3	1:8:413:ILE:HG12	2.03	0.41
1:K:553:GLN:HB3	1:L:238:LEU:HB3	2.02	0.41
1:M:181:ASP:HB2	1:M:253:GLN:HE22	1.86	0.41
1:M:407:TRP:CD1	1:M:410:ASN:N	2.85	0.41
1:M:414:GLN:NE2	1:M:422:PRO:HG3	2.36	0.41
1:N:138:ILE:HD11	1:N:532:LEU:HD13	2.03	0.41
1:N:192:ILE:HD11	1:N:464:GLN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:537:ARG:NH1	1:N:539:ASN:HB3	2.35	0.41
1:S:180:LEU:HD12	1:S:495:GLN:O	2.21	0.41
1:S:319:ILE:HD11	1:U:354:LYS:HD2	2.02	0.41
1:S:413:ILE:HG12	1:U:344:ASN:HB3	2.02	0.41
1:T:480:LEU:HD23	1:4:476:HIS:CE1	2.55	0.41
1:V:138:ILE:HD11	1:V:532:LEU:HD13	2.03	0.41
1:V:142:SER:HG	1:V:531:THR:HG1	1.69	0.41
1:V:181:ASP:HB2	1:V:253:GLN:HE22	1.86	0.41
1:W:480:LEU:HD23	1:Y:476:HIS:CE1	2.55	0.41
1:X:344:ASN:HA	1:5:413:ILE:HA	2.03	0.41
1:X:537:ARG:NH1	1:X:539:ASN:HB3	2.35	0.41
1:Y:537:ARG:NH1	1:Y:539:ASN:HB3	2.35	0.41
1:Z:414:GLN:NE2	1:Z:422:PRO:HG3	2.35	0.41
1:2:123:PHE:HB2	1:2:462:TYR:HE1	1.86	0.41
1:4:180:LEU:HD12	1:4:495:GLN:O	2.21	0.41
1:4:286:ARG:HH22	1:f:101:ASP:CG	2.27	0.41
1:5:113:LEU:HD23	1:5:211:TYR:CD1	2.49	0.41
1:5:537:ARG:NH1	1:5:539:ASN:HB3	2.35	0.41
1:6:319:ILE:HD11	1:b:354:LYS:HD2	2.02	0.41
1:6:537:ARG:NH1	1:6:539:ASN:HB3	2.35	0.41
1:a:138:ILE:HD11	1:a:532:LEU:HD13	2.03	0.41
1:c:476:HIS:CE1	1:e:480:LEU:HD23	2.55	0.41
1:d:413:ILE:HG12	1:e:344:ASN:HB3	2.02	0.41
1:e:255:ILE:HB	1:q:47:TYR:HB3	2.02	0.41
1:f:414:GLN:NE2	1:f:422:PRO:HG3	2.36	0.41
1:g:81:TYR:CE2	1:g:248:THR:HG23	2.56	0.41
1:g:319:ILE:HD11	1:h:354:LYS:HD2	2.03	0.41
1:g:480:LEU:HD23	1:h:476:HIS:CE1	2.55	0.41
1:g:553:GLN:NE2	1:g:562:GLU:OE1	2.53	0.41
1:n:180:LEU:HD12	1:n:495:GLN:O	2.21	0.41
1:q:180:LEU:HD12	1:q:495:GLN:O	2.21	0.41
1:r:189:THR:N	1:r:495:GLN:HE22	2.14	0.41
1:r:553:GLN:NE2	1:r:562:GLU:OE1	2.53	0.41
1:s:113:LEU:CD1	1:s:115:ASP:HB2	2.50	0.41
1:s:395:TYR:CD2	1:s:576:PRO:HG2	2.56	0.41
1:t:319:ILE:HD11	1:u:354:LYS:HD2	2.02	0.41
1:t:344:ASN:HB3	1:v:413:ILE:HG12	2.02	0.41
1:u:537:ARG:NH1	1:u:539:ASN:HB3	2.35	0.41
1:v:180:LEU:HD12	1:v:495:GLN:O	2.20	0.41
1:v:537:ARG:NH1	1:v:539:ASN:HB3	2.35	0.41
1:w:180:LEU:HD12	1:w:495:GLN:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:123:PHE:HB2	1:y:462:TYR:HE1	1.86	0.41
1:y:413:ILE:HG12	1:z:344:ASN:CB	2.51	0.41
1:z:113:LEU:CD1	1:z:115:ASP:HB2	2.50	0.41
1:z:180:LEU:HD12	1:z:495:GLN:O	2.21	0.41
1:8:81:TYR:CE2	1:8:248:THR:HG23	2.56	0.41
1:A:103:ALA:HB3	1:A:219:ARG:HD2	2.03	0.41
1:A:344:ASN:HB3	1:I:413:ILE:HG12	2.02	0.41
1:B:81:TYR:CE2	1:B:248:THR:HG23	2.56	0.41
1:B:294:ILE:HA	1:B:307:LEU:HD23	2.03	0.41
1:C:113:LEU:CD1	1:C:115:ASP:HB2	2.50	0.41
1:C:180:LEU:HD12	1:C:495:GLN:O	2.21	0.41
1:C:319:ILE:HD11	1:2:354:LYS:HD2	2.03	0.41
1:C:413:ILE:HG12	1:2:344:ASN:HB3	2.02	0.41
1:C:480:LEU:HD23	1:2:476:HIS:CE1	2.55	0.41
1:D:413:ILE:HG12	1:N:344:ASN:HB3	2.03	0.41
1:F:395:TYR:CD2	1:F:576:PRO:HG2	2.56	0.41
1:G:414:GLN:NE2	1:G:422:PRO:HG3	2.35	0.41
1:I:81:TYR:CE2	1:I:248:THR:HG23	2.56	0.41
1:I:189:THR:N	1:I:495:GLN:HE22	2.14	0.41
1:J:480:LEU:HD23	1:L:476:HIS:CE1	2.55	0.41
1:K:255:ILE:HB	1:7:47:TYR:HB3	2.02	0.41
1:K:294:ILE:HA	1:K:307:LEU:HD23	2.03	0.41
1:K:319:ILE:HD11	1:1:354:LYS:HD2	2.03	0.41
1:K:327:GLU:HB3	1:1:102:ASP:HA	2.03	0.41
1:K:395:TYR:CD2	1:K:576:PRO:HG2	2.56	0.41
1:K:553:GLN:NE2	1:K:562:GLU:OE1	2.53	0.41
1:L:180:LEU:HD12	1:L:495:GLN:O	2.21	0.41
1:L:395:TYR:CD2	1:L:576:PRO:HG2	2.56	0.41
1:M:81:TYR:CE2	1:M:248:THR:HG23	2.56	0.41
1:M:255:ILE:HB	1:3:47:TYR:HB3	2.01	0.41
1:N:123:PHE:HB2	1:N:462:TYR:HE1	1.86	0.41
1:N:281:THR:CG2	1:N:584:ARG:HH21	2.33	0.41
1:O:81:TYR:CE2	1:O:248:THR:HG23	2.56	0.41
1:O:123:PHE:HB2	1:O:462:TYR:HE1	1.86	0.41
1:O:214:TYR:OH	1:h:327:GLU:OE2	2.22	0.41
1:O:537:ARG:NH1	1:O:539:ASN:HB3	2.35	0.41
1:P:123:PHE:HB2	1:P:462:TYR:HE1	1.86	0.41
1:Q:181:ASP:HB2	1:Q:253:GLN:HE22	1.86	0.41
1:Q:537:ARG:NH1	1:Q:539:ASN:HB3	2.35	0.41
1:Q:553:GLN:HB3	1:S:238:LEU:HB3	2.03	0.41
1:R:294:ILE:HA	1:R:307:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:344:ASN:HB3	1:U:413:ILE:HG12	2.03	0.41
1:R:354:LYS:HD2	1:U:319:ILE:HD11	2.02	0.41
1:R:476:HIS:CE1	1:U:480:LEU:HD23	2.55	0.41
1:S:81:TYR:CE2	1:S:248:THR:HG23	2.56	0.41
1:S:537:ARG:NH1	1:S:539:ASN:HB3	2.35	0.41
1:T:344:ASN:CB	1:f:413:ILE:HG12	2.51	0.41
1:T:354:LYS:HD2	1:f:319:ILE:HD11	2.02	0.41
1:U:103:ALA:HB3	1:U:219:ARG:HD2	2.03	0.41
1:U:113:LEU:HB3	1:U:497:LEU:HD23	2.03	0.41
1:W:81:TYR:CE2	1:W:248:THR:HG23	2.56	0.41
1:X:354:LYS:HD2	1:5:319:ILE:HD11	2.02	0.41
1:Z:344:ASN:CB	1:w:413:ILE:HG12	2.51	0.41
1:Z:413:ILE:HG12	1:x:344:ASN:CB	2.51	0.41
1:Z:553:GLN:NE2	1:Z:562:GLU:OE1	2.53	0.41
1:1:123:PHE:HB2	1:1:462:TYR:HE1	1.86	0.41
1:2:47:TYR:HB3	1:i:255:ILE:HB	2.01	0.41
1:3:81:TYR:CE2	1:3:248:THR:HG23	2.56	0.41
1:3:123:PHE:HB2	1:3:462:TYR:HE1	1.86	0.41
1:3:238:LEU:HB3	1:m:553:GLN:HB3	2.03	0.41
1:3:344:ASN:HB3	1:j:413:ILE:HG12	2.02	0.41
1:3:354:LYS:HD2	1:j:319:ILE:HD11	2.03	0.41
1:4:553:GLN:NE2	1:4:562:GLU:OE1	2.53	0.41
1:5:294:ILE:HA	1:5:307:LEU:HD23	2.03	0.41
1:6:113:LEU:HD23	1:6:211:TYR:CD1	2.49	0.41
1:6:294:ILE:HA	1:6:307:LEU:HD23	2.03	0.41
1:6:344:ASN:CB	1:a:413:ILE:HG12	2.51	0.41
1:a:537:ARG:NH1	1:a:539:ASN:HB3	2.35	0.41
1:b:113:LEU:HD23	1:b:211:TYR:CD1	2.49	0.41
1:b:181:ASP:HB2	1:b:253:GLN:HE22	1.86	0.41
1:d:123:PHE:HB2	1:d:462:TYR:HE1	1.86	0.41
1:d:138:ILE:HD11	1:d:532:LEU:HD13	2.03	0.41
1:d:192:ILE:HD11	1:d:464:GLN:O	2.20	0.41
1:d:413:ILE:HA	1:e:344:ASN:HA	2.03	0.41
1:e:81:TYR:CE2	1:e:248:THR:HG23	2.56	0.41
1:f:103:ALA:HB3	1:f:219:ARG:HD2	2.03	0.41
1:f:294:ILE:HA	1:f:307:LEU:HD23	2.03	0.41
1:g:294:ILE:HA	1:g:307:LEU:HD23	2.03	0.41
1:h:123:PHE:HB2	1:h:462:TYR:HE1	1.86	0.41
1:i:407:TRP:CD1	1:i:410:ASN:N	2.85	0.41
1:i:414:GLN:NE2	1:i:422:PRO:HG3	2.36	0.41
1:j:113:LEU:HD23	1:j:211:TYR:CD1	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:238:LEU:HB3	1:z:553:GLN:HB3	2.03	0.41
1:k:81:TYR:CE2	1:k:248:THR:HG23	2.56	0.41
1:k:113:LEU:CD1	1:k:115:ASP:HB2	2.50	0.41
1:k:123:PHE:HB2	1:k:462:TYR:HE1	1.86	0.41
1:k:294:ILE:HA	1:k:307:LEU:HD23	2.03	0.41
1:m:180:LEU:HD12	1:m:495:GLN:O	2.21	0.41
1:m:181:ASP:HB2	1:m:253:GLN:HE22	1.86	0.41
1:m:395:TYR:CD2	1:m:576:PRO:HG2	2.56	0.41
1:m:558:TYR:OH	1:m:576:PRO:O	2.20	0.41
1:n:480:LEU:HD23	1:o:476:HIS:CE1	2.55	0.41
1:o:181:ASP:HB2	1:o:253:GLN:HE22	1.86	0.41
1:o:413:ILE:HG12	1:p:344:ASN:CB	2.51	0.41
1:o:537:ARG:NH1	1:o:539:ASN:HB3	2.35	0.41
1:o:553:GLN:HB3	1:v:238:LEU:HB3	2.03	0.41
1:p:123:PHE:HB2	1:p:462:TYR:HE1	1.86	0.41
1:p:281:THR:CG2	1:p:584:ARG:HH21	2.33	0.41
1:p:395:TYR:CD2	1:p:576:PRO:HG2	2.56	0.41
1:p:553:GLN:NE2	1:p:562:GLU:OE1	2.53	0.41
1:q:101:ASP:CG	1:s:286:ARG:HH22	2.27	0.41
1:q:344:ASN:CB	1:s:413:ILE:HG12	2.51	0.41
1:r:123:PHE:HB2	1:r:462:TYR:HE1	1.86	0.41
1:r:413:ILE:HG12	1:s:344:ASN:CB	2.51	0.41
1:s:103:ALA:HB3	1:s:219:ARG:HD2	2.03	0.41
1:s:113:LEU:HB3	1:s:497:LEU:HD23	2.03	0.41
1:s:180:LEU:HD12	1:s:495:GLN:O	2.21	0.41
1:t:103:ALA:HB3	1:t:219:ARG:HD2	2.03	0.41
1:t:113:LEU:CD1	1:t:115:ASP:HB2	2.50	0.41
1:t:354:LYS:HD2	1:v:319:ILE:HD11	2.02	0.41
1:t:413:ILE:HG12	1:u:344:ASN:HB3	2.03	0.41
1:u:189:THR:N	1:u:495:GLN:HE22	2.14	0.41
1:v:81:TYR:CE2	1:v:248:THR:HG23	2.56	0.41
1:w:476:HIS:CE1	1:x:480:LEU:HD23	2.55	0.41
1:y:113:LEU:CD1	1:y:115:ASP:HB2	2.50	0.41
1:z:113:LEU:HB3	1:z:497:LEU:HD23	2.03	0.41
1:z:138:ILE:HD11	1:z:532:LEU:HD13	2.03	0.41
1:z:553:GLN:NE2	1:z:562:GLU:OE1	2.53	0.41
1:7:138:ILE:HD11	1:7:532:LEU:HD13	2.03	0.41
1:7:281:THR:CG2	1:7:584:ARG:HH21	2.33	0.41
1:7:537:ARG:NH1	1:7:539:ASN:HB3	2.35	0.41
1:8:123:PHE:HB2	1:8:462:TYR:HE1	1.86	0.41
1:8:537:ARG:NH1	1:8:539:ASN:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:LEU:HB3	1:A:497:LEU:HD23	2.03	0.41
1:A:217:CYS:SG	1:A:236:MET:HB3	2.61	0.41
1:A:558:TYR:OH	1:A:576:PRO:O	2.20	0.41
1:C:238:LEU:HB3	1:D:553:GLN:HB3	2.03	0.41
1:D:113:LEU:HB3	1:D:497:LEU:HD23	2.04	0.41
1:D:123:PHE:HB2	1:D:462:TYR:HE1	1.86	0.41
1:D:138:ILE:HD11	1:D:532:LEU:HD13	2.03	0.41
1:D:294:ILE:HA	1:D:307:LEU:HD23	2.03	0.41
1:E:123:PHE:HB2	1:E:462:TYR:HE1	1.86	0.41
1:E:480:LEU:HD23	1:Q:476:HIS:CE1	2.55	0.41
1:F:558:TYR:OH	1:F:576:PRO:O	2.20	0.41
1:G:103:ALA:HB3	1:G:219:ARG:HD2	2.03	0.41
1:G:136:ILE:HG23	1:G:537:ARG:HA	2.03	0.41
1:G:240:SER:O	1:G:244:SER:OG	2.33	0.41
1:H:103:ALA:HB3	1:H:219:ARG:HD2	2.03	0.41
1:H:181:ASP:HB2	1:H:253:GLN:HE22	1.86	0.41
1:H:281:THR:H	1:H:401:ASN:ND2	2.12	0.41
1:H:553:GLN:HB3	1:I:238:LEU:HB3	2.03	0.41
1:J:123:PHE:HB2	1:J:462:TYR:HE1	1.86	0.41
1:K:113:LEU:CD1	1:K:115:ASP:HB2	2.50	0.41
1:K:480:LEU:HD23	1:1:476:HIS:CE1	2.56	0.41
1:L:181:ASP:HB2	1:L:253:GLN:HE22	1.86	0.41
1:L:553:GLN:HB3	1:2:238:LEU:HB3	2.03	0.41
1:N:180:LEU:HD12	1:N:495:GLN:O	2.21	0.41
1:Q:81:TYR:CE2	1:Q:248:THR:HG23	2.56	0.41
1:Q:103:ALA:HB3	1:Q:219:ARG:HD2	2.03	0.41
1:S:142:SER:HG	1:S:531:THR:HG1	1.68	0.41
1:S:413:ILE:HG12	1:U:344:ASN:CB	2.51	0.41
1:T:181:ASP:HB2	1:T:253:GLN:HE22	1.86	0.41
1:T:476:HIS:CE1	1:f:480:LEU:HD23	2.55	0.41
1:V:123:PHE:HB2	1:V:462:TYR:HE1	1.86	0.41
1:V:294:ILE:HA	1:V:307:LEU:HD23	2.03	0.41
1:V:395:TYR:CD2	1:V:576:PRO:HG2	2.56	0.41
1:W:319:ILE:HD11	1:Y:354:LYS:HD2	2.03	0.41
1:Y:549:SER:HB2	1:Z:547:GLN:HB2	2.03	0.41
1:Z:103:ALA:HB3	1:Z:219:ARG:HD2	2.03	0.41
1:Z:294:ILE:HA	1:Z:307:LEU:HD23	2.03	0.41
1:Z:480:LEU:HD23	1:x:476:HIS:CE1	2.55	0.41
1:3:180:LEU:HD12	1:3:495:GLN:O	2.21	0.41
1:3:413:ILE:HA	1:i:344:ASN:HA	2.03	0.41
1:3:476:HIS:CE1	1:j:480:LEU:HD23	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:58:ASP:OD1	1:4:58:ASP:N	2.54	0.41
1:4:413:ILE:HG12	1:f:344:ASN:CB	2.51	0.41
1:5:180:LEU:HD12	1:5:495:GLN:O	2.20	0.41
1:6:180:LEU:HD12	1:6:495:GLN:O	2.21	0.41
1:6:413:ILE:HA	1:b:344:ASN:HA	2.03	0.41
1:a:123:PHE:HB2	1:a:462:TYR:HE1	1.86	0.41
1:a:192:ILE:HD11	1:a:464:GLN:O	2.20	0.41
1:a:553:GLN:HB3	1:u:238:LEU:HB3	2.03	0.41
1:d:81:TYR:CE2	1:d:248:THR:HG23	2.56	0.41
1:d:180:LEU:HD12	1:d:495:GLN:O	2.21	0.41
1:g:113:LEU:CD1	1:g:115:ASP:HB2	2.50	0.41
1:g:395:TYR:CD2	1:g:576:PRO:HG2	2.56	0.41
1:i:81:TYR:CE2	1:i:248:THR:HG23	2.56	0.41
1:j:113:LEU:CD1	1:j:115:ASP:HB2	2.50	0.41
1:j:180:LEU:HD12	1:j:495:GLN:O	2.21	0.41
1:k:113:LEU:HB3	1:k:497:LEU:HD23	2.03	0.41
1:k:413:ILE:HA	1:l:344:ASN:HA	2.04	0.41
1:l:103:ALA:HB3	1:l:219:ARG:HD2	2.03	0.41
1:l:123:PHE:HB2	1:l:462:TYR:HE1	1.86	0.41
1:n:319:ILE:HD11	1:o:354:LYS:HD2	2.02	0.41
1:o:81:TYR:CE2	1:o:248:THR:HG23	2.56	0.41
1:o:103:ALA:HB3	1:o:219:ARG:HD2	2.03	0.41
1:p:558:TYR:OH	1:p:576:PRO:O	2.20	0.41
1:q:294:ILE:HA	1:q:307:LEU:HD23	2.03	0.41
1:q:414:GLN:NE2	1:q:422:PRO:HG3	2.36	0.41
1:r:81:TYR:CE2	1:r:248:THR:HG23	2.56	0.41
1:r:413:ILE:HA	1:s:344:ASN:HA	2.03	0.41
1:s:217:CYS:SG	1:s:236:MET:HB3	2.61	0.41
1:t:113:LEU:HB3	1:t:497:LEU:HD23	2.03	0.41
1:t:269:TYR:OH	1:t:491:ASN:O	2.36	0.41
1:t:344:ASN:CB	1:v:413:ILE:HG12	2.51	0.41
1:t:480:LEU:HD23	1:u:476:HIS:CE1	2.55	0.41
1:u:294:ILE:HA	1:u:307:LEU:HD23	2.03	0.41
1:w:58:ASP:OD1	1:w:58:ASP:N	2.54	0.41
1:w:553:GLN:NE2	1:w:562:GLU:OE1	2.53	0.41
1:x:113:LEU:CD1	1:x:115:ASP:HB2	2.50	0.41
1:A:181:ASP:HB2	1:A:253:GLN:HE22	1.86	0.40
1:B:103:ALA:HB3	1:B:219:ARG:HD2	2.03	0.40
1:B:113:LEU:HB3	1:B:497:LEU:HD23	2.04	0.40
1:B:181:ASP:HB2	1:B:253:GLN:HE22	1.86	0.40
1:B:413:ILE:HA	1:J:344:ASN:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:81:TYR:CE2	1:C:248:THR:HG23	2.56	0.40
1:C:103:ALA:HB3	1:C:219:ARG:HD2	2.03	0.40
1:C:217:CYS:SG	1:C:236:MET:HB3	2.62	0.40
1:D:101:ASP:CG	1:P:286:ARG:HH22	2.27	0.40
1:D:103:ALA:HB3	1:D:219:ARG:HD2	2.03	0.40
1:F:81:TYR:CE2	1:F:248:THR:HG23	2.56	0.40
1:F:113:LEU:HB3	1:F:497:LEU:HD23	2.03	0.40
1:G:294:ILE:HA	1:G:307:LEU:HD23	2.03	0.40
1:H:81:TYR:CE2	1:H:248:THR:HG23	2.56	0.40
1:H:180:LEU:HD12	1:H:495:GLN:O	2.21	0.40
1:I:217:CYS:SG	1:I:236:MET:HB3	2.62	0.40
1:K:103:ALA:HB3	1:K:219:ARG:HD2	2.03	0.40
1:K:340:GLN:OE1	1:K:357:VAL:HG13	2.22	0.40
1:L:113:LEU:HD23	1:L:211:TYR:CD1	2.49	0.40
1:M:123:PHE:HB2	1:M:462:TYR:HE1	1.86	0.40
1:N:269:TYR:OH	1:N:491:ASN:O	2.36	0.40
1:N:286:ARG:HH22	1:P:101:ASP:CG	2.26	0.40
1:N:319:ILE:HD11	1:P:354:LYS:HD2	2.02	0.40
1:P:180:LEU:HD12	1:P:495:GLN:O	2.21	0.40
1:Q:123:PHE:HB2	1:Q:462:TYR:HE1	1.86	0.40
1:R:138:ILE:HD11	1:R:532:LEU:HD13	2.03	0.40
1:R:238:LEU:HB3	1:V:553:GLN:HB3	2.03	0.40
1:S:181:ASP:HB2	1:S:253:GLN:HE22	1.86	0.40
1:T:113:LEU:CD1	1:T:115:ASP:HB2	2.50	0.40
1:U:113:LEU:CD1	1:U:115:ASP:HB2	2.50	0.40
1:U:217:CYS:SG	1:U:236:MET:HB3	2.61	0.40
1:U:553:GLN:HB3	1:5:238:LEU:HB3	2.03	0.40
1:V:192:ILE:HD11	1:V:464:GLN:O	2.20	0.40
1:V:217:CYS:SG	1:V:236:MET:HB3	2.62	0.40
1:V:344:ASN:CB	1:X:413:ILE:HG12	2.51	0.40
1:V:413:ILE:HG12	1:5:344:ASN:CB	2.51	0.40
1:V:537:ARG:NH1	1:V:539:ASN:HB3	2.35	0.40
1:W:217:CYS:SG	1:W:236:MET:HB3	2.61	0.40
1:1:414:GLN:NE2	1:1:422:PRO:HG3	2.36	0.40
1:2:113:LEU:HB3	1:2:497:LEU:HD23	2.03	0.40
1:2:180:LEU:HD12	1:2:495:GLN:O	2.21	0.40
1:3:192:ILE:HD11	1:3:464:GLN:O	2.20	0.40
1:3:344:ASN:CB	1:j:413:ILE:HG12	2.51	0.40
1:6:238:LEU:HB3	1:t:553:GLN:HB3	2.03	0.40
1:6:286:ARG:HH22	1:b:101:ASP:CG	2.27	0.40
1:a:294:ILE:HA	1:a:307:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:344:ASN:CB	1:b:413:ILE:HG12	2.52	0.40
1:c:103:ALA:HB3	1:c:219:ARG:HD2	2.03	0.40
1:c:344:ASN:HB3	1:e:413:ILE:HG12	2.03	0.40
1:d:103:ALA:HB3	1:d:219:ARG:HD2	2.03	0.40
1:d:181:ASP:HB2	1:d:253:GLN:HE22	1.86	0.40
1:d:269:TYR:OH	1:d:491:ASN:O	2.36	0.40
1:d:414:GLN:NE2	1:d:422:PRO:HG3	2.36	0.40
1:f:553:GLN:NE2	1:f:562:GLU:OE1	2.53	0.40
1:g:181:ASP:HB2	1:g:253:GLN:HE22	1.86	0.40
1:g:413:ILE:HA	1:h:344:ASN:HA	2.03	0.40
1:h:414:GLN:NE2	1:h:422:PRO:HG3	2.36	0.40
1:i:123:PHE:HB2	1:i:462:TYR:HE1	1.86	0.40
1:m:217:CYS:SG	1:m:236:MET:HB3	2.61	0.40
1:o:319:ILE:HD11	1:p:354:LYS:HD2	2.03	0.40
1:p:81:TYR:CE2	1:p:248:THR:HG23	2.56	0.40
1:p:217:CYS:SG	1:p:236:MET:HB3	2.61	0.40
1:q:103:ALA:HB3	1:q:219:ARG:HD2	2.03	0.40
1:q:136:ILE:HG23	1:q:537:ARG:HA	2.04	0.40
1:q:344:ASN:HA	1:s:413:ILE:HA	2.03	0.40
1:r:217:CYS:SG	1:r:236:MET:HB3	2.62	0.40
1:r:413:ILE:HG12	1:s:344:ASN:HB3	2.02	0.40
1:t:238:LEU:HB3	1:x:553:GLN:HB3	2.03	0.40
1:t:553:GLN:NE2	1:t:562:GLU:OE1	2.53	0.40
1:v:181:ASP:HB2	1:v:253:GLN:HE22	1.86	0.40
1:z:103:ALA:HB3	1:z:219:ARG:HD2	2.03	0.40
1:z:181:ASP:HB2	1:z:253:GLN:HE22	1.86	0.40
1:z:294:ILE:HA	1:z:307:LEU:HD23	2.03	0.40
1:7:181:ASP:HB2	1:7:253:GLN:HE22	1.86	0.40
1:A:47:TYR:HB3	1:E:255:ILE:HB	2.01	0.40
1:A:81:TYR:CE2	1:A:248:THR:HG23	2.56	0.40
1:A:409:ASN:HA	1:A:430:ASN:ND2	2.37	0.40
1:C:113:LEU:HD23	1:C:211:TYR:CD1	2.49	0.40
1:C:294:ILE:HA	1:C:307:LEU:HD23	2.03	0.40
1:C:413:ILE:HG12	1:2:344:ASN:CB	2.51	0.40
1:D:181:ASP:HB2	1:D:253:GLN:HE22	1.86	0.40
1:E:103:ALA:HB3	1:E:219:ARG:HD2	2.03	0.40
1:E:319:ILE:HD11	1:Q:354:LYS:HD2	2.02	0.40
1:E:395:TYR:CD2	1:E:576:PRO:HG2	2.56	0.40
1:F:123:PHE:HB2	1:F:462:TYR:HE1	1.86	0.40
1:F:217:CYS:SG	1:F:236:MET:HB3	2.61	0.40
1:F:354:LYS:HD2	1:Q:319:ILE:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:413:ILE:HG12	1:I:344:ASN:HB3	2.02	0.40
1:H:327:GLU:HB3	1:W:102:ASP:HA	2.02	0.40
1:H:340:GLN:OE1	1:H:357:VAL:HG13	2.22	0.40
1:H:414:GLN:NE2	1:H:422:PRO:HG3	2.35	0.40
1:K:181:ASP:HB2	1:K:253:GLN:HE22	1.86	0.40
1:K:217:CYS:SG	1:K:236:MET:HB3	2.62	0.40
1:K:414:GLN:NE2	1:K:422:PRO:HG3	2.35	0.40
1:L:217:CYS:SG	1:L:236:MET:HB3	2.62	0.40
1:M:217:CYS:SG	1:M:236:MET:HB3	2.61	0.40
1:M:344:ASN:HA	1:2:413:ILE:HA	2.03	0.40
1:M:409:ASN:HA	1:M:430:ASN:ND2	2.37	0.40
1:N:553:GLN:HB3	1:g:238:LEU:HB3	2.03	0.40
1:O:113:LEU:HB3	1:O:497:LEU:HD23	2.03	0.40
1:P:103:ALA:HB3	1:P:219:ARG:HD2	2.03	0.40
1:P:136:ILE:HG23	1:P:537:ARG:HA	2.03	0.40
1:R:189:THR:N	1:R:495:GLN:HE22	2.14	0.40
1:T:413:ILE:HG12	1:4:344:ASN:CB	2.51	0.40
1:T:553:GLN:HB3	1:U:238:LEU:HB3	2.04	0.40
1:U:81:TYR:CE2	1:U:248:THR:HG23	2.56	0.40
1:U:553:GLN:NE2	1:U:562:GLU:OE1	2.53	0.40
1:W:113:LEU:HB3	1:W:497:LEU:HD23	2.03	0.40
1:W:553:GLN:NE2	1:W:562:GLU:OE1	2.53	0.40
1:W:558:TYR:OH	1:W:576:PRO:O	2.20	0.40
1:X:81:TYR:CE2	1:X:248:THR:HG23	2.56	0.40
1:Y:103:ALA:HB3	1:Y:219:ARG:HD2	2.03	0.40
1:Z:340:GLN:OE1	1:Z:357:VAL:HG13	2.22	0.40
1:2:136:ILE:HG23	1:2:537:ARG:HA	2.04	0.40
1:2:192:ILE:HD11	1:2:464:GLN:O	2.20	0.40
1:3:113:LEU:HB3	1:3:497:LEU:HD23	2.04	0.40
1:3:136:ILE:HG23	1:3:537:ARG:HA	2.04	0.40
1:3:413:ILE:HG12	1:i:344:ASN:CB	2.51	0.40
1:4:319:ILE:HD11	1:f:354:LYS:HD2	2.02	0.40
1:a:395:TYR:CD2	1:a:576:PRO:HG2	2.56	0.40
1:b:81:TYR:CE2	1:b:248:THR:HG23	2.56	0.40
1:b:395:TYR:CD2	1:b:576:PRO:HG2	2.56	0.40
1:d:413:ILE:HG12	1:e:344:ASN:CB	2.51	0.40
1:e:113:LEU:HB3	1:e:497:LEU:HD23	2.04	0.40
1:e:553:GLN:NE2	1:e:562:GLU:OE1	2.53	0.40
1:f:113:LEU:HB3	1:f:497:LEU:HD23	2.03	0.40
1:g:103:ALA:HB3	1:g:219:ARG:HD2	2.03	0.40
1:g:340:GLN:OE1	1:g:357:VAL:HG13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:414:GLN:NE2	1:g:422:PRO:HG3	2.35	0.40
1:j:103:ALA:HB3	1:j:219:ARG:HD2	2.03	0.40
1:j:217:CYS:SG	1:j:236:MET:HB3	2.62	0.40
1:j:294:ILE:HA	1:j:307:LEU:HD23	2.03	0.40
1:k:103:ALA:HB3	1:k:219:ARG:HD2	2.03	0.40
1:l:81:TYR:CE2	1:l:248:THR:HG23	2.56	0.40
1:n:123:PHE:HB2	1:n:462:TYR:HE1	1.86	0.40
1:n:255:ILE:HB	1:s:47:TYR:HB3	2.01	0.40
1:n:395:TYR:CD2	1:n:576:PRO:HG2	2.56	0.40
1:o:123:PHE:HB2	1:o:462:TYR:HE1	1.86	0.40
1:p:113:LEU:HB3	1:p:497:LEU:HD23	2.03	0.40
1:p:340:GLN:OE1	1:p:357:VAL:HG13	2.22	0.40
1:r:138:ILE:HD11	1:r:532:LEU:HD13	2.03	0.40
1:s:181:ASP:HB2	1:s:253:GLN:HE22	1.86	0.40
1:s:340:GLN:OE1	1:s:357:VAL:HG13	2.22	0.40
1:s:409:ASN:HA	1:s:430:ASN:ND2	2.37	0.40
1:t:81:TYR:CE2	1:t:248:THR:HG23	2.56	0.40
1:t:395:TYR:CD2	1:t:576:PRO:HG2	2.56	0.40
1:u:138:ILE:HD11	1:u:532:LEU:HD13	2.03	0.40
1:x:181:ASP:HB2	1:x:253:GLN:HE22	1.86	0.40
1:y:180:LEU:HD12	1:y:495:GLN:O	2.21	0.40
1:y:286:ARG:HH22	1:z:101:ASP:CG	2.27	0.40
1:y:354:LYS:HD2	1:7:319:ILE:HD11	2.02	0.40
1:7:58:ASP:N	1:7:58:ASP:OD1	2.54	0.40
1:7:180:LEU:HD12	1:7:495:GLN:O	2.21	0.40
1:7:340:GLN:OE1	1:7:357:VAL:HG13	2.22	0.40
1:A:123:PHE:HB2	1:A:462:TYR:HE1	1.86	0.40
1:A:138:ILE:HD11	1:A:532:LEU:HD13	2.03	0.40
1:A:340:GLN:OE1	1:A:357:VAL:HG13	2.22	0.40
1:A:380:LYS:HA	1:A:384:GLN:HB3	2.04	0.40
1:C:181:ASP:HB2	1:C:253:GLN:HE22	1.86	0.40
1:D:409:ASN:HA	1:D:430:ASN:ND2	2.37	0.40
1:E:413:ILE:HG12	1:Q:344:ASN:HB3	2.03	0.40
1:F:340:GLN:OE1	1:F:357:VAL:HG13	2.22	0.40
1:H:269:TYR:OH	1:H:491:ASN:O	2.36	0.40
1:I:138:ILE:HD11	1:I:532:LEU:HD13	2.03	0.40
1:I:409:ASN:HA	1:I:430:ASN:ND2	2.37	0.40
1:J:81:TYR:CE2	1:J:248:THR:HG23	2.56	0.40
1:J:414:GLN:NE2	1:J:422:PRO:HG3	2.36	0.40
1:J:553:GLN:HB3	1:1:238:LEU:HB3	2.03	0.40
1:K:123:PHE:HB2	1:K:462:TYR:HE1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:113:LEU:HB3	1:L:497:LEU:HD23	2.04	0.40
1:M:113:LEU:HB3	1:M:497:LEU:HD23	2.04	0.40
1:M:344:ASN:CB	1:2:413:ILE:HG12	2.51	0.40
1:N:58:ASP:N	1:N:58:ASP:OD1	2.54	0.40
1:N:181:ASP:HB2	1:N:253:GLN:HE22	1.86	0.40
1:N:340:GLN:OE1	1:N:357:VAL:HG13	2.22	0.40
1:O:294:ILE:HA	1:O:307:LEU:HD23	2.03	0.40
1:O:407:TRP:CD1	1:O:410:ASN:N	2.85	0.40
1:Q:414:GLN:NE2	1:Q:422:PRO:HG3	2.36	0.40
1:R:344:ASN:CB	1:U:413:ILE:HG12	2.52	0.40
1:S:217:CYS:SG	1:S:236:MET:HB3	2.62	0.40
1:T:138:ILE:HD11	1:T:532:LEU:HD13	2.03	0.40
1:V:402:TYR:HD1	1:5:349:ARG:NE	2.20	0.40
1:W:340:GLN:OE1	1:W:357:VAL:HG13	2.22	0.40
1:X:217:CYS:SG	1:X:236:MET:HB3	2.62	0.40
1:X:395:TYR:CD2	1:X:576:PRO:HG2	2.56	0.40
1:Y:189:THR:N	1:Y:495:GLN:HE22	2.14	0.40
1:Y:409:ASN:HA	1:Y:430:ASN:ND2	2.37	0.40
1:2:553:GLN:NE2	1:2:562:GLU:OE1	2.53	0.40
1:3:103:ALA:HB3	1:3:219:ARG:HD2	2.03	0.40
1:4:113:LEU:HB3	1:4:497:LEU:HD23	2.03	0.40
1:4:217:CYS:SG	1:4:236:MET:HB3	2.61	0.40
1:5:136:ILE:HG23	1:5:537:ARG:HA	2.04	0.40
1:a:217:CYS:SG	1:a:236:MET:HB3	2.62	0.40
1:a:238:LEU:HB3	1:e:553:GLN:HB3	2.03	0.40
1:b:217:CYS:SG	1:b:236:MET:HB3	2.62	0.40
1:c:409:ASN:HA	1:c:430:ASN:ND2	2.37	0.40
1:d:340:GLN:OE1	1:d:357:VAL:HG13	2.22	0.40
1:e:340:GLN:OE1	1:e:357:VAL:HG13	2.22	0.40
1:f:340:GLN:OE1	1:f:357:VAL:HG13	2.22	0.40
1:f:395:TYR:CD2	1:f:576:PRO:HG2	2.56	0.40
1:g:413:ILE:HG12	1:h:344:ASN:CB	2.51	0.40
1:i:217:CYS:SG	1:i:236:MET:HB3	2.62	0.40
1:i:395:TYR:CD2	1:i:576:PRO:HG2	2.56	0.40
1:i:409:ASN:HA	1:i:430:ASN:ND2	2.37	0.40
1:j:81:TYR:CE2	1:j:248:THR:HG23	2.56	0.40
1:j:181:ASP:HB2	1:j:253:GLN:HE22	1.86	0.40
1:m:113:LEU:HD23	1:m:211:TYR:CD1	2.49	0.40
1:n:47:TYR:HB3	1:z:255:ILE:HB	2.02	0.40
1:n:413:ILE:HG12	1:o:344:ASN:HB3	2.03	0.40
1:o:414:GLN:NE2	1:o:422:PRO:HG3	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:294:ILE:HA	1:p:307:LEU:HD23	2.03	0.40
1:q:58:ASP:OD1	1:q:58:ASP:N	2.54	0.40
1:q:413:ILE:HG12	1:r:344:ASN:CB	2.52	0.40
1:q:553:GLN:NE2	1:q:562:GLU:OE1	2.53	0.40
1:r:409:ASN:HA	1:r:430:ASN:ND2	2.37	0.40
1:s:81:TYR:CE2	1:s:248:THR:HG23	2.56	0.40
1:s:138:ILE:HD11	1:s:532:LEU:HD13	2.03	0.40
1:t:217:CYS:SG	1:t:236:MET:HB3	2.62	0.40
1:u:136:ILE:HG23	1:u:537:ARG:HA	2.04	0.40
1:v:123:PHE:HB2	1:v:462:TYR:HE1	1.86	0.40
1:w:113:LEU:HB3	1:w:497:LEU:HD23	2.03	0.40
1:w:409:ASN:HA	1:w:430:ASN:ND2	2.37	0.40
1:y:103:ALA:HB3	1:y:219:ARG:HD2	2.03	0.40
1:y:136:ILE:HG23	1:y:537:ARG:HA	2.04	0.40
1:y:294:ILE:HA	1:y:307:LEU:HD23	2.03	0.40
1:z:123:PHE:HB2	1:z:462:TYR:HE1	1.86	0.40
1:z:409:ASN:HA	1:z:430:ASN:ND2	2.37	0.40
1:7:240:SER:O	1:7:244:SER:OG	2.33	0.40
1:8:113:LEU:HB3	1:8:497:LEU:HD23	2.04	0.40
1:8:294:ILE:HA	1:8:307:LEU:HD23	2.03	0.40
1:C:380:LYS:HA	1:C:384:GLN:HB3	2.04	0.40
1:F:294:ILE:HA	1:F:307:LEU:HD23	2.03	0.40
1:G:553:GLN:NE2	1:G:562:GLU:OE1	2.53	0.40
1:H:86:VAL:HG11	1:Y:307:LEU:HG	2.04	0.40
1:H:136:ILE:HG23	1:H:537:ARG:HA	2.04	0.40
1:J:138:ILE:HD11	1:J:532:LEU:HD13	2.03	0.40
1:J:319:ILE:HD11	1:L:354:LYS:HD2	2.02	0.40
1:M:340:GLN:OE1	1:M:357:VAL:HG13	2.22	0.40
1:N:81:TYR:CE2	1:N:248:THR:HG23	2.56	0.40
1:O:238:LEU:HB3	1:4:553:GLN:HB3	2.04	0.40
1:P:294:ILE:HA	1:P:307:LEU:HD23	2.03	0.40
1:Q:409:ASN:HA	1:Q:430:ASN:ND2	2.37	0.40
1:R:136:ILE:HG23	1:R:537:ARG:HA	2.04	0.40
1:R:319:ILE:HD11	1:S:354:LYS:HD2	2.02	0.40
1:S:123:PHE:HB2	1:S:462:TYR:HE1	1.86	0.40
1:T:103:ALA:HB3	1:T:219:ARG:HD2	2.03	0.40
1:U:138:ILE:HD11	1:U:532:LEU:HD13	2.03	0.40
1:U:395:TYR:CD2	1:U:576:PRO:HG2	2.56	0.40
1:V:327:GLU:HB3	1:5:102:ASP:HA	2.04	0.40
1:V:340:GLN:OE1	1:V:357:VAL:HG13	2.22	0.40
1:X:340:GLN:OE1	1:X:357:VAL:HG13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:558:TYR:OH	1:X:576:PRO:O	2.20	0.40
1:Z:113:LEU:HB3	1:Z:497:LEU:HD23	2.04	0.40
1:Z:395:TYR:CD2	1:Z:576:PRO:HG2	2.56	0.40
1:Z:413:ILE:HA	1:x:344:ASN:HA	2.03	0.40
1:1:409:ASN:HA	1:1:430:ASN:ND2	2.37	0.40
1:2:103:ALA:HB3	1:2:219:ARG:HD2	2.03	0.40
1:3:553:GLN:NE2	1:3:562:GLU:OE1	2.53	0.40
1:4:340:GLN:OE1	1:4:357:VAL:HG13	2.22	0.40
1:6:136:ILE:HG23	1:6:537:ARG:HA	2.04	0.40
1:a:340:GLN:OE1	1:a:357:VAL:HG13	2.22	0.40
1:b:340:GLN:OE1	1:b:357:VAL:HG13	2.22	0.40
1:c:413:ILE:HG12	1:d:344:ASN:CB	2.51	0.40
1:f:138:ILE:HD11	1:f:532:LEU:HD13	2.03	0.40
1:f:217:CYS:SG	1:f:236:MET:HB3	2.61	0.40
1:g:123:PHE:HB2	1:g:462:TYR:HE1	1.86	0.40
1:g:217:CYS:SG	1:g:236:MET:HB3	2.62	0.40
1:g:413:ILE:HG12	1:h:344:ASN:HB3	2.02	0.40
1:i:113:LEU:HB3	1:i:497:LEU:HD23	2.04	0.40
1:k:181:ASP:HB2	1:k:253:GLN:HE22	1.86	0.40
1:k:395:TYR:CD2	1:k:576:PRO:HG2	2.56	0.40
1:l:138:ILE:HD11	1:l:532:LEU:HD13	2.03	0.40
1:l:414:GLN:NE2	1:l:422:PRO:HG3	2.36	0.40
1:m:113:LEU:HB3	1:m:497:LEU:HD23	2.03	0.40
1:q:240:SER:O	1:q:244:SER:OG	2.33	0.40
1:q:395:TYR:CD2	1:q:576:PRO:HG2	2.56	0.40
1:q:558:TYR:OH	1:q:576:PRO:O	2.20	0.40
1:t:138:ILE:HD11	1:t:532:LEU:HD13	2.03	0.40
1:t:413:ILE:HG12	1:u:344:ASN:CB	2.52	0.40
1:u:319:ILE:HD11	1:v:354:LYS:HD2	2.02	0.40
1:u:413:ILE:HG12	1:v:344:ASN:CB	2.51	0.40
1:w:217:CYS:SG	1:w:236:MET:HB3	2.61	0.40
1:w:344:ASN:CB	1:x:413:ILE:HG12	2.52	0.40
1:x:138:ILE:HD11	1:x:532:LEU:HD13	2.03	0.40
1:z:286:ARG:HH22	1:7:101:ASP:CG	2.26	0.40
1:A:413:ILE:HG12	1:G:344:ASN:HB3	2.03	0.40
1:B:395:TYR:CD2	1:B:576:PRO:HG2	2.56	0.40
1:C:101:ASP:CG	1:M:286:ARG:HH22	2.27	0.40
1:C:340:GLN:OE1	1:C:357:VAL:HG13	2.22	0.40
1:C:409:ASN:HA	1:C:430:ASN:ND2	2.37	0.40
1:D:286:ARG:HH22	1:N:101:ASP:CG	2.25	0.40
1:G:395:TYR:CD2	1:G:576:PRO:HG2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:123:PHE:O	1:H:462:TYR:OH	2.16	0.40
1:H:307:LEU:HG	1:W:86:VAL:HG11	2.02	0.40
1:I:413:ILE:HB	1:I:428:LEU:HB3	2.04	0.40
1:K:86:VAL:HG11	1:8:307:LEU:HG	2.03	0.40
1:K:307:LEU:HG	1:1:86:VAL:HG11	2.04	0.40
1:M:395:TYR:CD2	1:M:576:PRO:HG2	2.56	0.40
1:O:136:ILE:HG23	1:O:537:ARG:HA	2.04	0.40
1:O:413:ILE:HB	1:O:428:LEU:HB3	2.04	0.40
1:P:138:ILE:HD11	1:P:532:LEU:HD13	2.03	0.40
1:P:537:ARG:NH1	1:P:539:ASN:HB3	2.35	0.40
1:R:380:LYS:HA	1:R:384:GLN:HB3	2.04	0.40
1:T:409:ASN:HA	1:T:430:ASN:ND2	2.37	0.40
1:X:101:ASP:CG	1:5:286:ARG:HH22	2.27	0.40
1:X:409:ASN:HA	1:X:430:ASN:ND2	2.37	0.40
1:Y:123:PHE:HB2	1:Y:462:TYR:HE1	1.86	0.40
1:Y:217:CYS:SG	1:Y:236:MET:HB3	2.62	0.40
1:Z:138:ILE:HD11	1:Z:532:LEU:HD13	2.03	0.40
1:Z:217:CYS:SG	1:Z:236:MET:HB3	2.62	0.40
1:Z:319:ILE:HD11	1:x:354:LYS:HD2	2.03	0.40
1:Z:354:LYS:HD2	1:w:319:ILE:HD11	2.02	0.40
1:Z:380:LYS:HA	1:Z:384:GLN:HB3	2.04	0.40
1:2:294:ILE:HA	1:2:307:LEU:HD23	2.03	0.40
1:2:340:GLN:OE1	1:2:357:VAL:HG13	2.22	0.40
1:3:294:ILE:HA	1:3:307:LEU:HD23	2.03	0.40
1:3:340:GLN:OE1	1:3:357:VAL:HG13	2.22	0.40
1:3:344:ASN:HA	1:j:413:ILE:HA	2.03	0.40
1:4:409:ASN:HA	1:4:430:ASN:ND2	2.37	0.40
1:b:409:ASN:HA	1:b:430:ASN:ND2	2.37	0.40
1:c:189:THR:N	1:c:495:GLN:HE22	2.14	0.40
1:c:217:CYS:SG	1:c:236:MET:HB3	2.62	0.40
1:c:286:ARG:HH22	1:d:101:ASP:CG	2.26	0.40
1:c:307:LEU:HG	1:d:86:VAL:HG11	2.04	0.40
1:d:136:ILE:HG23	1:d:537:ARG:HA	2.04	0.40
1:d:294:ILE:HA	1:d:307:LEU:HD23	2.03	0.40
1:e:217:CYS:SG	1:e:236:MET:HB3	2.62	0.40
1:f:380:LYS:HA	1:f:384:GLN:HB3	2.04	0.40
1:f:537:ARG:HH12	1:f:539:ASN:HB3	1.87	0.40
1:h:409:ASN:HA	1:h:430:ASN:ND2	2.37	0.40
1:i:340:GLN:OE1	1:i:357:VAL:HG13	2.22	0.40
1:j:340:GLN:OE1	1:j:357:VAL:HG13	2.22	0.40
1:k:136:ILE:HG23	1:k:537:ARG:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:217:CYS:SG	1:l:236:MET:HB3	2.61	0.40
1:l:319:ILE:HD11	1:m:354:LYS:HD2	2.02	0.40
1:n:103:ALA:HB3	1:n:219:ARG:HD2	2.03	0.40
1:o:409:ASN:HA	1:o:430:ASN:ND2	2.37	0.40
1:q:123:PHE:HB2	1:q:462:TYR:HE1	1.86	0.40
1:q:327:GLU:HB3	1:r:102:ASP:HA	2.04	0.40
1:q:409:ASN:HA	1:q:430:ASN:ND2	2.37	0.40
1:s:123:PHE:HB2	1:s:462:TYR:HE1	1.86	0.40
1:s:380:LYS:HA	1:s:384:GLN:HB3	2.04	0.40
1:v:113:LEU:HB3	1:v:497:LEU:HD23	2.03	0.40
1:v:217:CYS:SG	1:v:236:MET:HB3	2.61	0.40
1:w:340:GLN:OE1	1:w:357:VAL:HG13	2.22	0.40
1:w:553:GLN:HB3	1:8:238:LEU:HB3	2.04	0.40
1:x:103:ALA:HB3	1:x:219:ARG:HD2	2.03	0.40
1:x:409:ASN:HA	1:x:430:ASN:ND2	2.37	0.40
1:y:138:ILE:HD11	1:y:532:LEU:HD13	2.03	0.40
1:y:380:LYS:HA	1:y:384:GLN:HB3	2.04	0.40
1:7:81:TYR:CE2	1:7:248:THR:HG23	2.56	0.40
1:8:407:TRP:CD1	1:8:410:ASN:N	2.85	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	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	2	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	3	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	4	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	5	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	6	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	7	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	8	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	A	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	B	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	C	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	D	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	E	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	F	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	G	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	H	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	I	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	J	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	K	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	L	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	M	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	N	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	O	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	P	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	Q	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	R	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	S	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	T	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	U	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	V	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	W	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	X	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	Y	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	Z	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	a	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	b	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	c	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	d	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	e	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	f	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	g	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	h	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	i	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	j	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	k	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	l	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	m	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	n	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	o	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	p	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	q	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	r	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	s	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	t	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	u	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	v	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	w	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	x	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	y	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
1	z	550/587 (94%)	538 (98%)	11 (2%)	1 (0%)	44	73
All	All	33000/35220 (94%)	32280 (98%)	660 (2%)	60 (0%)	45	73

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	400	VAL
1	B	400	VAL
1	C	400	VAL
1	D	400	VAL
1	E	400	VAL

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Mol	Chain	Res	Type
1	F	400	VAL
1	G	400	VAL
1	H	400	VAL
1	I	400	VAL
1	J	400	VAL
1	K	400	VAL
1	L	400	VAL
1	M	400	VAL
1	N	400	VAL
1	O	400	VAL
1	P	400	VAL
1	Q	400	VAL
1	R	400	VAL
1	S	400	VAL
1	T	400	VAL
1	U	400	VAL
1	V	400	VAL
1	W	400	VAL
1	X	400	VAL
1	Y	400	VAL
1	Z	400	VAL
1	1	400	VAL
1	2	400	VAL
1	3	400	VAL
1	4	400	VAL
1	5	400	VAL
1	6	400	VAL
1	a	400	VAL
1	b	400	VAL
1	c	400	VAL
1	d	400	VAL
1	e	400	VAL
1	f	400	VAL
1	g	400	VAL
1	h	400	VAL
1	i	400	VAL
1	j	400	VAL
1	k	400	VAL
1	l	400	VAL
1	m	400	VAL
1	n	400	VAL
1	o	400	VAL

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Mol	Chain	Res	Type
1	p	400	VAL
1	q	400	VAL
1	r	400	VAL
1	s	400	VAL
1	t	400	VAL
1	u	400	VAL
1	v	400	VAL
1	w	400	VAL
1	x	400	VAL
1	y	400	VAL
1	z	400	VAL
1	7	400	VAL
1	8	400	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	2	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	3	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	4	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	5	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	6	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	7	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	8	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	A	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	B	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	C	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	D	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	E	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	F	479/500 (96%)	478 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	H	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	I	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	J	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	K	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	L	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	M	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	N	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	O	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	P	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	Q	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	R	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	S	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	T	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	U	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	V	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	W	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	X	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	Y	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	Z	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	a	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	b	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	c	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	d	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	e	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	f	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	g	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	h	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	i	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	j	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	k	479/500 (96%)	478 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	l	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	m	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	n	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	o	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	p	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	q	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	r	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	s	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	t	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	u	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	v	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	w	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	x	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	y	479/500 (96%)	478 (100%)	1 (0%)	92	97
1	z	479/500 (96%)	478 (100%)	1 (0%)	92	97
All	All	28740/30000 (96%)	28680 (100%)	60 (0%)	91	97

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

Mol	Chain	Res	Type
1	A	428	LEU
1	B	428	LEU
1	C	428	LEU
1	D	428	LEU
1	E	428	LEU
1	F	428	LEU
1	G	428	LEU
1	H	428	LEU
1	I	428	LEU
1	J	428	LEU
1	K	428	LEU
1	L	428	LEU
1	M	428	LEU
1	N	428	LEU
1	O	428	LEU
1	P	428	LEU
1	Q	428	LEU

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Mol	Chain	Res	Type
1	R	428	LEU
1	S	428	LEU
1	T	428	LEU
1	U	428	LEU
1	V	428	LEU
1	W	428	LEU
1	X	428	LEU
1	Y	428	LEU
1	Z	428	LEU
1	1	428	LEU
1	2	428	LEU
1	3	428	LEU
1	4	428	LEU
1	5	428	LEU
1	6	428	LEU
1	a	428	LEU
1	b	428	LEU
1	c	428	LEU
1	d	428	LEU
1	e	428	LEU
1	f	428	LEU
1	g	428	LEU
1	h	428	LEU
1	i	428	LEU
1	j	428	LEU
1	k	428	LEU
1	l	428	LEU
1	m	428	LEU
1	n	428	LEU
1	o	428	LEU
1	p	428	LEU
1	q	428	LEU
1	r	428	LEU
1	s	428	LEU
1	t	428	LEU
1	u	428	LEU
1	v	428	LEU
1	w	428	LEU
1	x	428	LEU
1	y	428	LEU
1	z	428	LEU
1	7	428	LEU

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Mol	Chain	Res	Type
1	8	428	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1575) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	49	ASN
1	A	74	ASN
1	A	141	HIS
1	A	149	ASN
1	A	170	ASN
1	A	251	ASN
1	A	253	GLN
1	A	287	HIS
1	A	304	ASN
1	A	323	ASN
1	A	342	HIS
1	A	368	HIS
1	A	381	GLN
1	A	390	ASN
1	A	391	ASN
1	A	430	ASN
1	A	457	HIS
1	A	476	HIS
1	A	490	ASN
1	A	495	GLN
1	A	511	ASN
1	A	547	GLN
1	A	552	ASN
1	A	556	ASN
1	A	585	ASN
1	B	49	ASN
1	B	50	GLN
1	B	52	HIS
1	B	74	ASN
1	B	141	HIS
1	B	149	ASN
1	B	170	ASN
1	B	251	ASN
1	B	253	GLN
1	B	287	HIS
1	B	304	ASN
1	B	323	ASN

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Mol	Chain	Res	Type
1	B	342	HIS
1	B	368	HIS
1	B	381	GLN
1	B	390	ASN
1	B	391	ASN
1	B	430	ASN
1	B	457	HIS
1	B	476	HIS
1	B	490	ASN
1	B	495	GLN
1	B	511	ASN
1	B	547	GLN
1	B	552	ASN
1	B	556	ASN
1	B	585	ASN
1	C	49	ASN
1	C	50	GLN
1	C	52	HIS
1	C	74	ASN
1	C	141	HIS
1	C	149	ASN
1	C	170	ASN
1	C	251	ASN
1	C	287	HIS
1	C	304	ASN
1	C	323	ASN
1	C	342	HIS
1	C	368	HIS
1	C	381	GLN
1	C	391	ASN
1	C	457	HIS
1	C	476	HIS
1	C	490	ASN
1	C	495	GLN
1	C	511	ASN
1	C	547	GLN
1	C	552	ASN
1	C	556	ASN
1	C	585	ASN
1	D	49	ASN
1	D	74	ASN
1	D	141	HIS

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Mol	Chain	Res	Type
1	D	149	ASN
1	D	170	ASN
1	D	251	ASN
1	D	253	GLN
1	D	287	HIS
1	D	304	ASN
1	D	323	ASN
1	D	342	HIS
1	D	368	HIS
1	D	381	GLN
1	D	391	ASN
1	D	430	ASN
1	D	457	HIS
1	D	476	HIS
1	D	490	ASN
1	D	495	GLN
1	D	511	ASN
1	D	547	GLN
1	D	552	ASN
1	D	556	ASN
1	D	585	ASN
1	E	49	ASN
1	E	50	GLN
1	E	52	HIS
1	E	74	ASN
1	E	88	ASN
1	E	141	HIS
1	E	149	ASN
1	E	170	ASN
1	E	251	ASN
1	E	253	GLN
1	E	287	HIS
1	E	304	ASN
1	E	323	ASN
1	E	340	GLN
1	E	342	HIS
1	E	368	HIS
1	E	381	GLN
1	E	390	ASN
1	E	391	ASN
1	E	430	ASN
1	E	457	HIS

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Mol	Chain	Res	Type
1	E	476	HIS
1	E	490	ASN
1	E	495	GLN
1	E	511	ASN
1	E	547	GLN
1	E	552	ASN
1	E	585	ASN
1	F	49	ASN
1	F	50	GLN
1	F	52	HIS
1	F	74	ASN
1	F	141	HIS
1	F	149	ASN
1	F	170	ASN
1	F	251	ASN
1	F	253	GLN
1	F	287	HIS
1	F	304	ASN
1	F	323	ASN
1	F	340	GLN
1	F	342	HIS
1	F	368	HIS
1	F	381	GLN
1	F	391	ASN
1	F	430	ASN
1	F	457	HIS
1	F	476	HIS
1	F	490	ASN
1	F	495	GLN
1	F	511	ASN
1	F	547	GLN
1	F	552	ASN
1	F	585	ASN
1	G	49	ASN
1	G	74	ASN
1	G	141	HIS
1	G	149	ASN
1	G	170	ASN
1	G	251	ASN
1	G	287	HIS
1	G	304	ASN
1	G	323	ASN

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Mol	Chain	Res	Type
1	G	342	HIS
1	G	368	HIS
1	G	381	GLN
1	G	390	ASN
1	G	391	ASN
1	G	430	ASN
1	G	457	HIS
1	G	476	HIS
1	G	490	ASN
1	G	495	GLN
1	G	511	ASN
1	G	547	GLN
1	G	552	ASN
1	G	585	ASN
1	H	49	ASN
1	H	74	ASN
1	H	88	ASN
1	H	141	HIS
1	H	149	ASN
1	H	170	ASN
1	H	251	ASN
1	H	287	HIS
1	H	304	ASN
1	H	323	ASN
1	H	342	HIS
1	H	368	HIS
1	H	381	GLN
1	H	390	ASN
1	H	391	ASN
1	H	457	HIS
1	H	476	HIS
1	H	481	HIS
1	H	490	ASN
1	H	495	GLN
1	H	511	ASN
1	H	547	GLN
1	H	552	ASN
1	H	585	ASN
1	I	49	ASN
1	I	50	GLN
1	I	52	HIS
1	I	74	ASN

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Mol	Chain	Res	Type
1	I	141	HIS
1	I	149	ASN
1	I	170	ASN
1	I	251	ASN
1	I	287	HIS
1	I	304	ASN
1	I	323	ASN
1	I	342	HIS
1	I	368	HIS
1	I	381	GLN
1	I	390	ASN
1	I	391	ASN
1	I	430	ASN
1	I	457	HIS
1	I	476	HIS
1	I	490	ASN
1	I	495	GLN
1	I	511	ASN
1	I	547	GLN
1	I	552	ASN
1	I	556	ASN
1	I	585	ASN
1	J	49	ASN
1	J	74	ASN
1	J	141	HIS
1	J	149	ASN
1	J	170	ASN
1	J	251	ASN
1	J	253	GLN
1	J	287	HIS
1	J	304	ASN
1	J	323	ASN
1	J	342	HIS
1	J	368	HIS
1	J	381	GLN
1	J	390	ASN
1	J	391	ASN
1	J	430	ASN
1	J	457	HIS
1	J	476	HIS
1	J	490	ASN
1	J	495	GLN

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Mol	Chain	Res	Type
1	J	511	ASN
1	J	547	GLN
1	J	552	ASN
1	J	556	ASN
1	J	585	ASN
1	K	49	ASN
1	K	50	GLN
1	K	52	HIS
1	K	74	ASN
1	K	88	ASN
1	K	149	ASN
1	K	170	ASN
1	K	251	ASN
1	K	253	GLN
1	K	287	HIS
1	K	323	ASN
1	K	340	GLN
1	K	342	HIS
1	K	368	HIS
1	K	381	GLN
1	K	390	ASN
1	K	391	ASN
1	K	430	ASN
1	K	457	HIS
1	K	476	HIS
1	K	490	ASN
1	K	495	GLN
1	K	511	ASN
1	K	547	GLN
1	K	552	ASN
1	K	585	ASN
1	L	49	ASN
1	L	50	GLN
1	L	52	HIS
1	L	74	ASN
1	L	141	HIS
1	L	149	ASN
1	L	170	ASN
1	L	251	ASN
1	L	253	GLN
1	L	287	HIS
1	L	304	ASN

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Mol	Chain	Res	Type
1	L	323	ASN
1	L	342	HIS
1	L	368	HIS
1	L	381	GLN
1	L	390	ASN
1	L	391	ASN
1	L	430	ASN
1	L	457	HIS
1	L	476	HIS
1	L	481	HIS
1	L	490	ASN
1	L	495	GLN
1	L	511	ASN
1	L	547	GLN
1	L	552	ASN
1	L	585	ASN
1	M	49	ASN
1	M	50	GLN
1	M	52	HIS
1	M	74	ASN
1	M	88	ASN
1	M	141	HIS
1	M	149	ASN
1	M	170	ASN
1	M	251	ASN
1	M	287	HIS
1	M	304	ASN
1	M	323	ASN
1	M	342	HIS
1	M	368	HIS
1	M	381	GLN
1	M	390	ASN
1	M	391	ASN
1	M	430	ASN
1	M	457	HIS
1	M	476	HIS
1	M	490	ASN
1	M	495	GLN
1	M	511	ASN
1	M	547	GLN
1	M	552	ASN
1	M	556	ASN

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Mol	Chain	Res	Type
1	M	585	ASN
1	N	49	ASN
1	N	50	GLN
1	N	52	HIS
1	N	74	ASN
1	N	88	ASN
1	N	141	HIS
1	N	149	ASN
1	N	170	ASN
1	N	251	ASN
1	N	253	GLN
1	N	287	HIS
1	N	304	ASN
1	N	323	ASN
1	N	340	GLN
1	N	342	HIS
1	N	368	HIS
1	N	381	GLN
1	N	391	ASN
1	N	430	ASN
1	N	457	HIS
1	N	476	HIS
1	N	490	ASN
1	N	495	GLN
1	N	511	ASN
1	N	547	GLN
1	N	552	ASN
1	N	585	ASN
1	O	49	ASN
1	O	50	GLN
1	O	52	HIS
1	O	74	ASN
1	O	88	ASN
1	O	141	HIS
1	O	149	ASN
1	O	170	ASN
1	O	251	ASN
1	O	253	GLN
1	O	287	HIS
1	O	304	ASN
1	O	323	ASN
1	O	340	GLN

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Mol	Chain	Res	Type
1	O	342	HIS
1	O	368	HIS
1	O	381	GLN
1	O	390	ASN
1	O	391	ASN
1	O	430	ASN
1	O	457	HIS
1	O	476	HIS
1	O	490	ASN
1	O	495	GLN
1	O	511	ASN
1	O	547	GLN
1	O	552	ASN
1	O	556	ASN
1	O	585	ASN
1	P	49	ASN
1	P	50	GLN
1	P	52	HIS
1	P	74	ASN
1	P	141	HIS
1	P	149	ASN
1	P	170	ASN
1	P	251	ASN
1	P	287	HIS
1	P	304	ASN
1	P	323	ASN
1	P	340	GLN
1	P	342	HIS
1	P	368	HIS
1	P	381	GLN
1	P	390	ASN
1	P	391	ASN
1	P	430	ASN
1	P	457	HIS
1	P	476	HIS
1	P	490	ASN
1	P	495	GLN
1	P	511	ASN
1	P	547	GLN
1	P	552	ASN
1	P	556	ASN
1	P	585	ASN

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Mol	Chain	Res	Type
1	Q	49	ASN
1	Q	50	GLN
1	Q	52	HIS
1	Q	74	ASN
1	Q	141	HIS
1	Q	149	ASN
1	Q	170	ASN
1	Q	251	ASN
1	Q	287	HIS
1	Q	304	ASN
1	Q	323	ASN
1	Q	342	HIS
1	Q	368	HIS
1	Q	381	GLN
1	Q	390	ASN
1	Q	391	ASN
1	Q	430	ASN
1	Q	457	HIS
1	Q	476	HIS
1	Q	490	ASN
1	Q	495	GLN
1	Q	511	ASN
1	Q	547	GLN
1	Q	552	ASN
1	Q	556	ASN
1	Q	585	ASN
1	R	49	ASN
1	R	50	GLN
1	R	52	HIS
1	R	74	ASN
1	R	141	HIS
1	R	149	ASN
1	R	170	ASN
1	R	251	ASN
1	R	253	GLN
1	R	287	HIS
1	R	304	ASN
1	R	323	ASN
1	R	342	HIS
1	R	368	HIS
1	R	381	GLN
1	R	390	ASN

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Mol	Chain	Res	Type
1	R	391	ASN
1	R	430	ASN
1	R	457	HIS
1	R	476	HIS
1	R	481	HIS
1	R	490	ASN
1	R	495	GLN
1	R	511	ASN
1	R	547	GLN
1	R	552	ASN
1	R	585	ASN
1	S	49	ASN
1	S	50	GLN
1	S	52	HIS
1	S	74	ASN
1	S	88	ASN
1	S	141	HIS
1	S	149	ASN
1	S	170	ASN
1	S	251	ASN
1	S	253	GLN
1	S	287	HIS
1	S	304	ASN
1	S	323	ASN
1	S	342	HIS
1	S	368	HIS
1	S	381	GLN
1	S	390	ASN
1	S	391	ASN
1	S	430	ASN
1	S	457	HIS
1	S	476	HIS
1	S	490	ASN
1	S	495	GLN
1	S	511	ASN
1	S	547	GLN
1	S	552	ASN
1	S	585	ASN
1	T	49	ASN
1	T	50	GLN
1	T	52	HIS
1	T	74	ASN

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Mol	Chain	Res	Type
1	T	141	HIS
1	T	149	ASN
1	T	170	ASN
1	T	251	ASN
1	T	287	HIS
1	T	304	ASN
1	T	323	ASN
1	T	340	GLN
1	T	342	HIS
1	T	368	HIS
1	T	381	GLN
1	T	390	ASN
1	T	391	ASN
1	T	430	ASN
1	T	457	HIS
1	T	476	HIS
1	T	490	ASN
1	T	495	GLN
1	T	511	ASN
1	T	547	GLN
1	T	552	ASN
1	T	585	ASN
1	U	49	ASN
1	U	50	GLN
1	U	52	HIS
1	U	74	ASN
1	U	88	ASN
1	U	141	HIS
1	U	149	ASN
1	U	170	ASN
1	U	251	ASN
1	U	253	GLN
1	U	287	HIS
1	U	304	ASN
1	U	323	ASN
1	U	340	GLN
1	U	342	HIS
1	U	368	HIS
1	U	381	GLN
1	U	390	ASN
1	U	391	ASN
1	U	430	ASN

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Mol	Chain	Res	Type
1	U	457	HIS
1	U	476	HIS
1	U	481	HIS
1	U	490	ASN
1	U	495	GLN
1	U	511	ASN
1	U	547	GLN
1	U	552	ASN
1	U	585	ASN
1	V	49	ASN
1	V	50	GLN
1	V	52	HIS
1	V	74	ASN
1	V	141	HIS
1	V	149	ASN
1	V	170	ASN
1	V	251	ASN
1	V	253	GLN
1	V	287	HIS
1	V	304	ASN
1	V	323	ASN
1	V	342	HIS
1	V	368	HIS
1	V	381	GLN
1	V	391	ASN
1	V	430	ASN
1	V	457	HIS
1	V	481	HIS
1	V	490	ASN
1	V	495	GLN
1	V	511	ASN
1	V	547	GLN
1	V	552	ASN
1	V	556	ASN
1	V	585	ASN
1	W	49	ASN
1	W	50	GLN
1	W	52	HIS
1	W	74	ASN
1	W	88	ASN
1	W	141	HIS
1	W	149	ASN

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Mol	Chain	Res	Type
1	W	170	ASN
1	W	251	ASN
1	W	287	HIS
1	W	323	ASN
1	W	342	HIS
1	W	368	HIS
1	W	381	GLN
1	W	390	ASN
1	W	391	ASN
1	W	430	ASN
1	W	457	HIS
1	W	476	HIS
1	W	490	ASN
1	W	495	GLN
1	W	511	ASN
1	W	547	GLN
1	W	552	ASN
1	W	556	ASN
1	W	585	ASN
1	X	49	ASN
1	X	74	ASN
1	X	88	ASN
1	X	141	HIS
1	X	149	ASN
1	X	170	ASN
1	X	251	ASN
1	X	253	GLN
1	X	287	HIS
1	X	304	ASN
1	X	323	ASN
1	X	340	GLN
1	X	342	HIS
1	X	368	HIS
1	X	381	GLN
1	X	390	ASN
1	X	391	ASN
1	X	430	ASN
1	X	457	HIS
1	X	476	HIS
1	X	481	HIS
1	X	495	GLN
1	X	511	ASN

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Mol	Chain	Res	Type
1	X	547	GLN
1	X	552	ASN
1	X	585	ASN
1	Y	49	ASN
1	Y	50	GLN
1	Y	52	HIS
1	Y	74	ASN
1	Y	141	HIS
1	Y	149	ASN
1	Y	170	ASN
1	Y	251	ASN
1	Y	253	GLN
1	Y	287	HIS
1	Y	304	ASN
1	Y	323	ASN
1	Y	340	GLN
1	Y	342	HIS
1	Y	368	HIS
1	Y	381	GLN
1	Y	390	ASN
1	Y	391	ASN
1	Y	430	ASN
1	Y	457	HIS
1	Y	476	HIS
1	Y	490	ASN
1	Y	495	GLN
1	Y	511	ASN
1	Y	547	GLN
1	Y	552	ASN
1	Y	556	ASN
1	Y	585	ASN
1	Z	49	ASN
1	Z	50	GLN
1	Z	52	HIS
1	Z	74	ASN
1	Z	141	HIS
1	Z	149	ASN
1	Z	170	ASN
1	Z	251	ASN
1	Z	253	GLN
1	Z	287	HIS
1	Z	304	ASN

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Mol	Chain	Res	Type
1	Z	323	ASN
1	Z	342	HIS
1	Z	368	HIS
1	Z	381	GLN
1	Z	390	ASN
1	Z	391	ASN
1	Z	457	HIS
1	Z	476	HIS
1	Z	490	ASN
1	Z	495	GLN
1	Z	511	ASN
1	Z	547	GLN
1	Z	552	ASN
1	Z	585	ASN
1	1	49	ASN
1	1	50	GLN
1	1	52	HIS
1	1	74	ASN
1	1	141	HIS
1	1	149	ASN
1	1	170	ASN
1	1	251	ASN
1	1	253	GLN
1	1	287	HIS
1	1	323	ASN
1	1	340	GLN
1	1	342	HIS
1	1	368	HIS
1	1	381	GLN
1	1	390	ASN
1	1	391	ASN
1	1	430	ASN
1	1	457	HIS
1	1	476	HIS
1	1	481	HIS
1	1	490	ASN
1	1	495	GLN
1	1	511	ASN
1	1	547	GLN
1	1	552	ASN
1	1	556	ASN
1	1	585	ASN

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Mol	Chain	Res	Type
1	2	49	ASN
1	2	50	GLN
1	2	52	HIS
1	2	74	ASN
1	2	141	HIS
1	2	149	ASN
1	2	170	ASN
1	2	251	ASN
1	2	287	HIS
1	2	304	ASN
1	2	323	ASN
1	2	340	GLN
1	2	342	HIS
1	2	368	HIS
1	2	381	GLN
1	2	390	ASN
1	2	391	ASN
1	2	430	ASN
1	2	457	HIS
1	2	476	HIS
1	2	481	HIS
1	2	490	ASN
1	2	495	GLN
1	2	511	ASN
1	2	547	GLN
1	2	552	ASN
1	2	556	ASN
1	2	585	ASN
1	3	49	ASN
1	3	50	GLN
1	3	52	HIS
1	3	74	ASN
1	3	141	HIS
1	3	149	ASN
1	3	170	ASN
1	3	251	ASN
1	3	253	GLN
1	3	287	HIS
1	3	304	ASN
1	3	323	ASN
1	3	342	HIS
1	3	368	HIS

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Mol	Chain	Res	Type
1	3	381	GLN
1	3	390	ASN
1	3	391	ASN
1	3	430	ASN
1	3	457	HIS
1	3	476	HIS
1	3	481	HIS
1	3	490	ASN
1	3	495	GLN
1	3	511	ASN
1	3	547	GLN
1	3	552	ASN
1	3	556	ASN
1	3	585	ASN
1	4	49	ASN
1	4	50	GLN
1	4	52	HIS
1	4	74	ASN
1	4	141	HIS
1	4	149	ASN
1	4	170	ASN
1	4	251	ASN
1	4	287	HIS
1	4	304	ASN
1	4	323	ASN
1	4	342	HIS
1	4	368	HIS
1	4	381	GLN
1	4	390	ASN
1	4	391	ASN
1	4	430	ASN
1	4	457	HIS
1	4	476	HIS
1	4	495	GLN
1	4	511	ASN
1	4	547	GLN
1	4	552	ASN
1	4	556	ASN
1	4	585	ASN
1	5	49	ASN
1	5	74	ASN
1	5	88	ASN

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Mol	Chain	Res	Type
1	5	141	HIS
1	5	149	ASN
1	5	170	ASN
1	5	251	ASN
1	5	287	HIS
1	5	304	ASN
1	5	323	ASN
1	5	340	GLN
1	5	342	HIS
1	5	368	HIS
1	5	381	GLN
1	5	390	ASN
1	5	391	ASN
1	5	430	ASN
1	5	457	HIS
1	5	476	HIS
1	5	490	ASN
1	5	495	GLN
1	5	511	ASN
1	5	547	GLN
1	5	552	ASN
1	5	556	ASN
1	5	585	ASN
1	6	49	ASN
1	6	74	ASN
1	6	141	HIS
1	6	149	ASN
1	6	170	ASN
1	6	251	ASN
1	6	287	HIS
1	6	304	ASN
1	6	323	ASN
1	6	340	GLN
1	6	342	HIS
1	6	368	HIS
1	6	381	GLN
1	6	390	ASN
1	6	391	ASN
1	6	430	ASN
1	6	457	HIS
1	6	476	HIS
1	6	481	HIS

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Mol	Chain	Res	Type
1	6	490	ASN
1	6	495	GLN
1	6	511	ASN
1	6	547	GLN
1	6	552	ASN
1	6	556	ASN
1	6	585	ASN
1	a	49	ASN
1	a	50	GLN
1	a	52	HIS
1	a	74	ASN
1	a	141	HIS
1	a	149	ASN
1	a	170	ASN
1	a	251	ASN
1	a	253	GLN
1	a	287	HIS
1	a	304	ASN
1	a	323	ASN
1	a	342	HIS
1	a	368	HIS
1	a	381	GLN
1	a	391	ASN
1	a	430	ASN
1	a	457	HIS
1	a	490	ASN
1	a	495	GLN
1	a	511	ASN
1	a	547	GLN
1	a	552	ASN
1	a	556	ASN
1	a	585	ASN
1	b	49	ASN
1	b	74	ASN
1	b	141	HIS
1	b	149	ASN
1	b	170	ASN
1	b	251	ASN
1	b	253	GLN
1	b	287	HIS
1	b	304	ASN
1	b	323	ASN

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Mol	Chain	Res	Type
1	b	340	GLN
1	b	342	HIS
1	b	368	HIS
1	b	381	GLN
1	b	390	ASN
1	b	391	ASN
1	b	430	ASN
1	b	457	HIS
1	b	476	HIS
1	b	481	HIS
1	b	495	GLN
1	b	511	ASN
1	b	547	GLN
1	b	552	ASN
1	b	585	ASN
1	c	49	ASN
1	c	50	GLN
1	c	52	HIS
1	c	74	ASN
1	c	141	HIS
1	c	149	ASN
1	c	170	ASN
1	c	251	ASN
1	c	253	GLN
1	c	287	HIS
1	c	304	ASN
1	c	323	ASN
1	c	340	GLN
1	c	342	HIS
1	c	368	HIS
1	c	381	GLN
1	c	390	ASN
1	c	391	ASN
1	c	430	ASN
1	c	457	HIS
1	c	476	HIS
1	c	490	ASN
1	c	495	GLN
1	c	511	ASN
1	c	547	GLN
1	c	552	ASN
1	c	556	ASN

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Mol	Chain	Res	Type
1	c	585	ASN
1	d	49	ASN
1	d	50	GLN
1	d	52	HIS
1	d	74	ASN
1	d	88	ASN
1	d	141	HIS
1	d	149	ASN
1	d	170	ASN
1	d	251	ASN
1	d	287	HIS
1	d	304	ASN
1	d	323	ASN
1	d	342	HIS
1	d	368	HIS
1	d	381	GLN
1	d	390	ASN
1	d	391	ASN
1	d	457	HIS
1	d	476	HIS
1	d	481	HIS
1	d	490	ASN
1	d	495	GLN
1	d	511	ASN
1	d	547	GLN
1	d	552	ASN
1	d	585	ASN
1	e	49	ASN
1	e	74	ASN
1	e	141	HIS
1	e	149	ASN
1	e	170	ASN
1	e	251	ASN
1	e	287	HIS
1	e	323	ASN
1	e	342	HIS
1	e	368	HIS
1	e	381	GLN
1	e	390	ASN
1	e	391	ASN
1	e	430	ASN
1	e	457	HIS

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Mol	Chain	Res	Type
1	e	476	HIS
1	e	481	HIS
1	e	490	ASN
1	e	495	GLN
1	e	511	ASN
1	e	547	GLN
1	e	552	ASN
1	e	556	ASN
1	e	585	ASN
1	f	49	ASN
1	f	50	GLN
1	f	52	HIS
1	f	74	ASN
1	f	88	ASN
1	f	141	HIS
1	f	149	ASN
1	f	170	ASN
1	f	251	ASN
1	f	253	GLN
1	f	287	HIS
1	f	304	ASN
1	f	323	ASN
1	f	342	HIS
1	f	368	HIS
1	f	381	GLN
1	f	390	ASN
1	f	391	ASN
1	f	457	HIS
1	f	476	HIS
1	f	490	ASN
1	f	495	GLN
1	f	511	ASN
1	f	547	GLN
1	f	552	ASN
1	f	585	ASN
1	g	49	ASN
1	g	50	GLN
1	g	52	HIS
1	g	74	ASN
1	g	88	ASN
1	g	141	HIS
1	g	149	ASN

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Mol	Chain	Res	Type
1	g	170	ASN
1	g	251	ASN
1	g	253	GLN
1	g	287	HIS
1	g	304	ASN
1	g	323	ASN
1	g	340	GLN
1	g	342	HIS
1	g	368	HIS
1	g	381	GLN
1	g	390	ASN
1	g	391	ASN
1	g	430	ASN
1	g	457	HIS
1	g	476	HIS
1	g	490	ASN
1	g	495	GLN
1	g	511	ASN
1	g	547	GLN
1	g	552	ASN
1	g	585	ASN
1	h	49	ASN
1	h	50	GLN
1	h	52	HIS
1	h	74	ASN
1	h	88	ASN
1	h	141	HIS
1	h	149	ASN
1	h	170	ASN
1	h	251	ASN
1	h	253	GLN
1	h	287	HIS
1	h	304	ASN
1	h	323	ASN
1	h	340	GLN
1	h	342	HIS
1	h	368	HIS
1	h	381	GLN
1	h	390	ASN
1	h	391	ASN
1	h	430	ASN
1	h	457	HIS

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Mol	Chain	Res	Type
1	h	476	HIS
1	h	490	ASN
1	h	495	GLN
1	h	511	ASN
1	h	547	GLN
1	h	552	ASN
1	h	556	ASN
1	h	585	ASN
1	i	49	ASN
1	i	50	GLN
1	i	52	HIS
1	i	74	ASN
1	i	141	HIS
1	i	149	ASN
1	i	170	ASN
1	i	251	ASN
1	i	287	HIS
1	i	323	ASN
1	i	342	HIS
1	i	368	HIS
1	i	381	GLN
1	i	390	ASN
1	i	391	ASN
1	i	430	ASN
1	i	457	HIS
1	i	476	HIS
1	i	481	HIS
1	i	490	ASN
1	i	495	GLN
1	i	511	ASN
1	i	547	GLN
1	i	552	ASN
1	i	556	ASN
1	i	585	ASN
1	j	49	ASN
1	j	50	GLN
1	j	52	HIS
1	j	74	ASN
1	j	141	HIS
1	j	149	ASN
1	j	170	ASN
1	j	251	ASN

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Mol	Chain	Res	Type
1	j	287	HIS
1	j	304	ASN
1	j	323	ASN
1	j	342	HIS
1	j	368	HIS
1	j	381	GLN
1	j	391	ASN
1	j	457	HIS
1	j	476	HIS
1	j	490	ASN
1	j	495	GLN
1	j	511	ASN
1	j	547	GLN
1	j	552	ASN
1	j	556	ASN
1	j	585	ASN
1	k	49	ASN
1	k	50	GLN
1	k	52	HIS
1	k	74	ASN
1	k	141	HIS
1	k	149	ASN
1	k	170	ASN
1	k	251	ASN
1	k	253	GLN
1	k	287	HIS
1	k	304	ASN
1	k	323	ASN
1	k	342	HIS
1	k	368	HIS
1	k	381	GLN
1	k	390	ASN
1	k	391	ASN
1	k	430	ASN
1	k	457	HIS
1	k	476	HIS
1	k	490	ASN
1	k	495	GLN
1	k	511	ASN
1	k	547	GLN
1	k	552	ASN
1	k	556	ASN

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Mol	Chain	Res	Type
1	k	585	ASN
1	l	49	ASN
1	l	74	ASN
1	l	141	HIS
1	l	149	ASN
1	l	170	ASN
1	l	251	ASN
1	l	253	GLN
1	l	287	HIS
1	l	304	ASN
1	l	323	ASN
1	l	342	HIS
1	l	368	HIS
1	l	381	GLN
1	l	390	ASN
1	l	391	ASN
1	l	430	ASN
1	l	457	HIS
1	l	476	HIS
1	l	490	ASN
1	l	495	GLN
1	l	511	ASN
1	l	547	GLN
1	l	552	ASN
1	l	585	ASN
1	m	49	ASN
1	m	50	GLN
1	m	52	HIS
1	m	74	ASN
1	m	141	HIS
1	m	149	ASN
1	m	170	ASN
1	m	251	ASN
1	m	253	GLN
1	m	287	HIS
1	m	323	ASN
1	m	342	HIS
1	m	368	HIS
1	m	381	GLN
1	m	390	ASN
1	m	391	ASN
1	m	430	ASN

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Mol	Chain	Res	Type
1	m	457	HIS
1	m	476	HIS
1	m	481	HIS
1	m	490	ASN
1	m	495	GLN
1	m	511	ASN
1	m	547	GLN
1	m	552	ASN
1	m	585	ASN
1	n	49	ASN
1	n	50	GLN
1	n	52	HIS
1	n	74	ASN
1	n	141	HIS
1	n	149	ASN
1	n	170	ASN
1	n	251	ASN
1	n	287	HIS
1	n	304	ASN
1	n	323	ASN
1	n	340	GLN
1	n	342	HIS
1	n	368	HIS
1	n	381	GLN
1	n	390	ASN
1	n	391	ASN
1	n	430	ASN
1	n	457	HIS
1	n	476	HIS
1	n	490	ASN
1	n	495	GLN
1	n	511	ASN
1	n	547	GLN
1	n	552	ASN
1	n	556	ASN
1	n	585	ASN
1	o	49	ASN
1	o	50	GLN
1	o	52	HIS
1	o	74	ASN
1	o	141	HIS
1	o	149	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	o	170	ASN
1	o	251	ASN
1	o	287	HIS
1	o	304	ASN
1	o	323	ASN
1	o	342	HIS
1	o	368	HIS
1	o	381	GLN
1	o	390	ASN
1	o	391	ASN
1	o	430	ASN
1	o	457	HIS
1	o	476	HIS
1	o	490	ASN
1	o	495	GLN
1	o	511	ASN
1	o	547	GLN
1	o	552	ASN
1	o	556	ASN
1	o	585	ASN
1	p	49	ASN
1	p	50	GLN
1	p	52	HIS
1	p	74	ASN
1	p	141	HIS
1	p	149	ASN
1	p	170	ASN
1	p	251	ASN
1	p	253	GLN
1	p	287	HIS
1	p	304	ASN
1	p	323	ASN
1	p	340	GLN
1	p	342	HIS
1	p	368	HIS
1	p	381	GLN
1	p	391	ASN
1	p	430	ASN
1	p	457	HIS
1	p	476	HIS
1	p	490	ASN
1	p	495	GLN

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Mol	Chain	Res	Type
1	p	511	ASN
1	p	547	GLN
1	p	552	ASN
1	p	585	ASN
1	q	49	ASN
1	q	74	ASN
1	q	141	HIS
1	q	149	ASN
1	q	170	ASN
1	q	251	ASN
1	q	253	GLN
1	q	287	HIS
1	q	323	ASN
1	q	342	HIS
1	q	368	HIS
1	q	381	GLN
1	q	391	ASN
1	q	430	ASN
1	q	457	HIS
1	q	476	HIS
1	q	490	ASN
1	q	495	GLN
1	q	511	ASN
1	q	547	GLN
1	q	552	ASN
1	q	585	ASN
1	r	49	ASN
1	r	50	GLN
1	r	52	HIS
1	r	74	ASN
1	r	141	HIS
1	r	149	ASN
1	r	170	ASN
1	r	251	ASN
1	r	287	HIS
1	r	304	ASN
1	r	323	ASN
1	r	342	HIS
1	r	368	HIS
1	r	381	GLN
1	r	390	ASN
1	r	391	ASN

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Mol	Chain	Res	Type
1	r	430	ASN
1	r	457	HIS
1	r	476	HIS
1	r	490	ASN
1	r	495	GLN
1	r	511	ASN
1	r	547	GLN
1	r	552	ASN
1	r	556	ASN
1	r	585	ASN
1	s	49	ASN
1	s	74	ASN
1	s	141	HIS
1	s	149	ASN
1	s	170	ASN
1	s	251	ASN
1	s	253	GLN
1	s	287	HIS
1	s	304	ASN
1	s	323	ASN
1	s	340	GLN
1	s	342	HIS
1	s	368	HIS
1	s	381	GLN
1	s	390	ASN
1	s	391	ASN
1	s	430	ASN
1	s	457	HIS
1	s	476	HIS
1	s	490	ASN
1	s	495	GLN
1	s	511	ASN
1	s	547	GLN
1	s	552	ASN
1	s	556	ASN
1	s	585	ASN
1	t	49	ASN
1	t	50	GLN
1	t	52	HIS
1	t	74	ASN
1	t	88	ASN
1	t	141	HIS

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Mol	Chain	Res	Type
1	t	149	ASN
1	t	170	ASN
1	t	251	ASN
1	t	253	GLN
1	t	287	HIS
1	t	304	ASN
1	t	323	ASN
1	t	340	GLN
1	t	342	HIS
1	t	368	HIS
1	t	381	GLN
1	t	390	ASN
1	t	391	ASN
1	t	430	ASN
1	t	457	HIS
1	t	476	HIS
1	t	481	HIS
1	t	490	ASN
1	t	495	GLN
1	t	511	ASN
1	t	547	GLN
1	t	552	ASN
1	t	585	ASN
1	u	49	ASN
1	u	50	GLN
1	u	52	HIS
1	u	74	ASN
1	u	141	HIS
1	u	149	ASN
1	u	170	ASN
1	u	251	ASN
1	u	253	GLN
1	u	287	HIS
1	u	304	ASN
1	u	323	ASN
1	u	342	HIS
1	u	368	HIS
1	u	381	GLN
1	u	390	ASN
1	u	391	ASN
1	u	430	ASN
1	u	457	HIS

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Mol	Chain	Res	Type
1	u	476	HIS
1	u	481	HIS
1	u	490	ASN
1	u	495	GLN
1	u	511	ASN
1	u	547	GLN
1	u	552	ASN
1	u	585	ASN
1	v	49	ASN
1	v	50	GLN
1	v	52	HIS
1	v	74	ASN
1	v	88	ASN
1	v	141	HIS
1	v	149	ASN
1	v	170	ASN
1	v	251	ASN
1	v	253	GLN
1	v	287	HIS
1	v	304	ASN
1	v	323	ASN
1	v	342	HIS
1	v	368	HIS
1	v	381	GLN
1	v	390	ASN
1	v	391	ASN
1	v	430	ASN
1	v	457	HIS
1	v	476	HIS
1	v	490	ASN
1	v	495	GLN
1	v	511	ASN
1	v	547	GLN
1	v	552	ASN
1	v	585	ASN
1	w	49	ASN
1	w	50	GLN
1	w	52	HIS
1	w	74	ASN
1	w	141	HIS
1	w	149	ASN
1	w	170	ASN

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Mol	Chain	Res	Type
1	w	251	ASN
1	w	287	HIS
1	w	304	ASN
1	w	323	ASN
1	w	342	HIS
1	w	368	HIS
1	w	381	GLN
1	w	390	ASN
1	w	391	ASN
1	w	430	ASN
1	w	457	HIS
1	w	476	HIS
1	w	490	ASN
1	w	495	GLN
1	w	511	ASN
1	w	547	GLN
1	w	552	ASN
1	w	585	ASN
1	x	49	ASN
1	x	50	GLN
1	x	52	HIS
1	x	74	ASN
1	x	141	HIS
1	x	149	ASN
1	x	170	ASN
1	x	251	ASN
1	x	287	HIS
1	x	304	ASN
1	x	323	ASN
1	x	342	HIS
1	x	368	HIS
1	x	381	GLN
1	x	390	ASN
1	x	391	ASN
1	x	430	ASN
1	x	457	HIS
1	x	476	HIS
1	x	490	ASN
1	x	495	GLN
1	x	511	ASN
1	x	547	GLN
1	x	552	ASN

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Mol	Chain	Res	Type
1	x	585	ASN
1	y	49	ASN
1	y	50	GLN
1	y	52	HIS
1	y	74	ASN
1	y	141	HIS
1	y	149	ASN
1	y	170	ASN
1	y	251	ASN
1	y	287	HIS
1	y	304	ASN
1	y	323	ASN
1	y	340	GLN
1	y	342	HIS
1	y	368	HIS
1	y	381	GLN
1	y	390	ASN
1	y	391	ASN
1	y	430	ASN
1	y	457	HIS
1	y	476	HIS
1	y	490	ASN
1	y	495	GLN
1	y	511	ASN
1	y	547	GLN
1	y	552	ASN
1	y	556	ASN
1	y	585	ASN
1	z	49	ASN
1	z	74	ASN
1	z	141	HIS
1	z	149	ASN
1	z	170	ASN
1	z	251	ASN
1	z	287	HIS
1	z	304	ASN
1	z	323	ASN
1	z	340	GLN
1	z	342	HIS
1	z	368	HIS
1	z	381	GLN
1	z	390	ASN

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Mol	Chain	Res	Type
1	z	391	ASN
1	z	430	ASN
1	z	457	HIS
1	z	476	HIS
1	z	490	ASN
1	z	495	GLN
1	z	511	ASN
1	z	547	GLN
1	z	552	ASN
1	z	556	ASN
1	z	585	ASN
1	7	49	ASN
1	7	50	GLN
1	7	52	HIS
1	7	74	ASN
1	7	88	ASN
1	7	141	HIS
1	7	149	ASN
1	7	170	ASN
1	7	251	ASN
1	7	253	GLN
1	7	287	HIS
1	7	304	ASN
1	7	323	ASN
1	7	340	GLN
1	7	342	HIS
1	7	368	HIS
1	7	381	GLN
1	7	390	ASN
1	7	391	ASN
1	7	430	ASN
1	7	457	HIS
1	7	476	HIS
1	7	481	HIS
1	7	490	ASN
1	7	495	GLN
1	7	511	ASN
1	7	547	GLN
1	7	552	ASN
1	7	585	ASN
1	8	49	ASN
1	8	50	GLN

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Mol	Chain	Res	Type
1	8	52	HIS
1	8	74	ASN
1	8	88	ASN
1	8	141	HIS
1	8	149	ASN
1	8	170	ASN
1	8	251	ASN
1	8	253	GLN
1	8	287	HIS
1	8	304	ASN
1	8	323	ASN
1	8	342	HIS
1	8	368	HIS
1	8	381	GLN
1	8	390	ASN
1	8	391	ASN
1	8	430	ASN
1	8	457	HIS
1	8	476	HIS
1	8	490	ASN
1	8	495	GLN
1	8	511	ASN
1	8	547	GLN
1	8	552	ASN
1	8	556	ASN
1	8	585	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

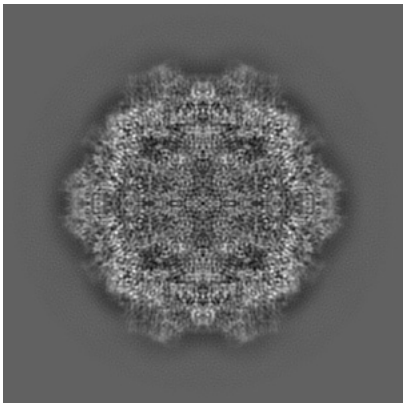
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-7071. These allow visual inspection of the internal detail of the map and identification of artifacts.

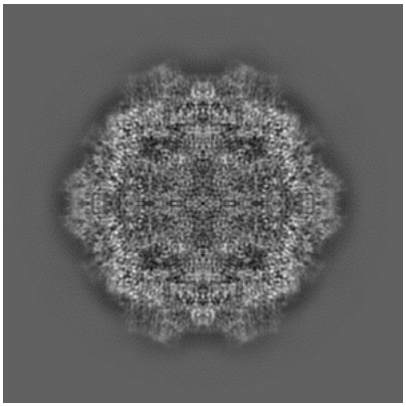
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

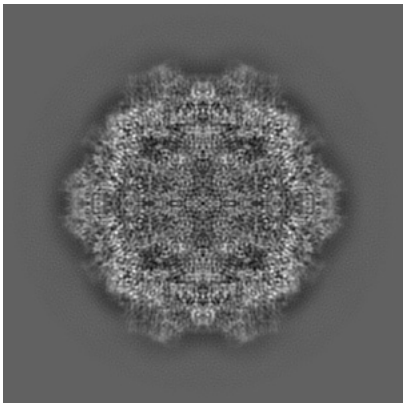
6.1.1 Primary map



X



Y

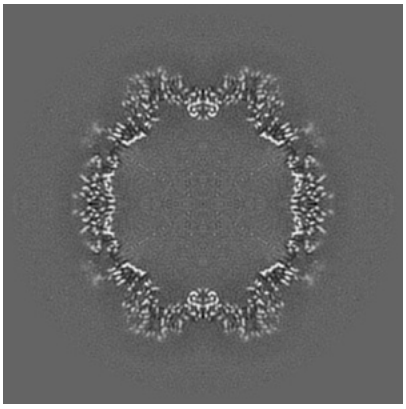


Z

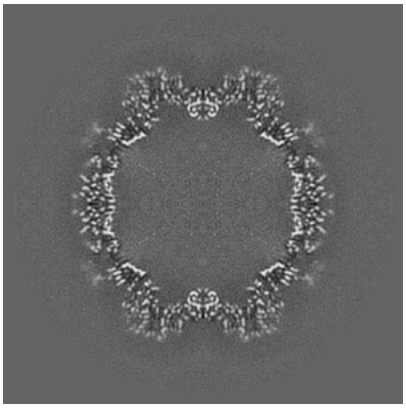
The images above show the map projected in three orthogonal directions.

6.2 Central slices

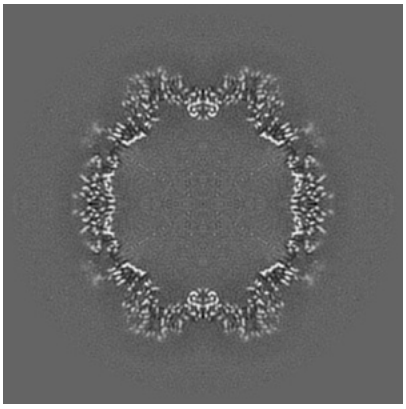
6.2.1 Primary map



X Index: 179



Y Index: 179

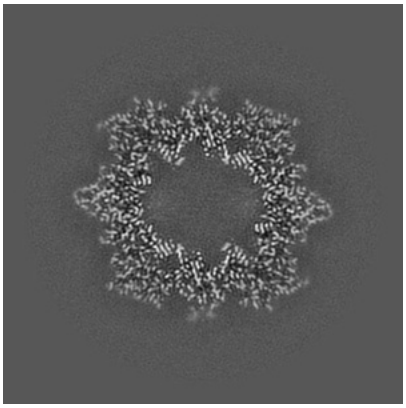


Z Index: 179

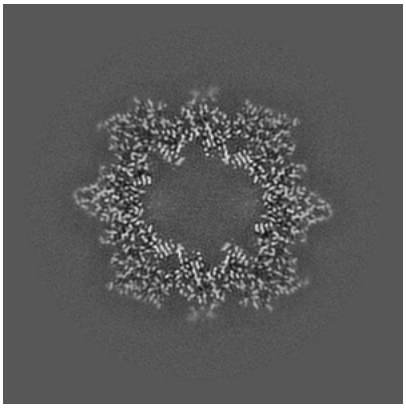
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

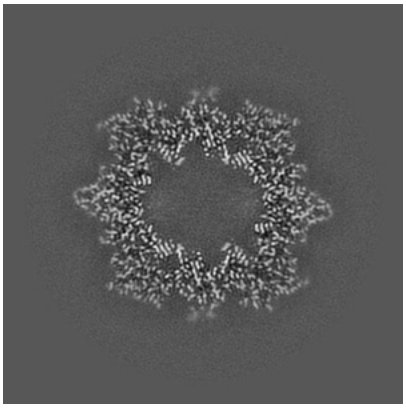
6.3.1 Primary map



X Index: 115



Y Index: 115

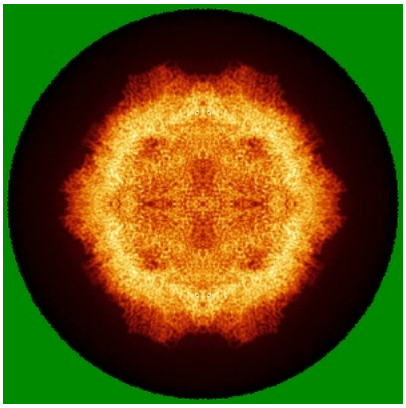


Z Index: 115

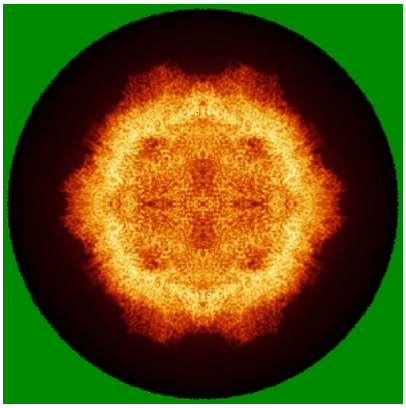
The images above show the largest variance slices of the map in three orthogonal directions.

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

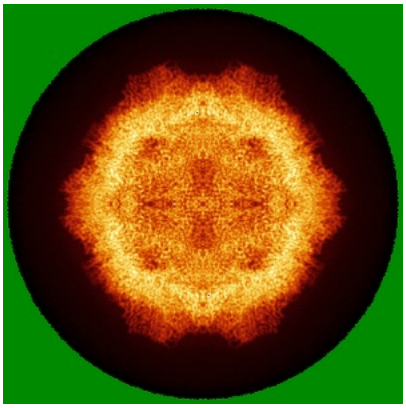
6.4.1 Primary map



X



Y

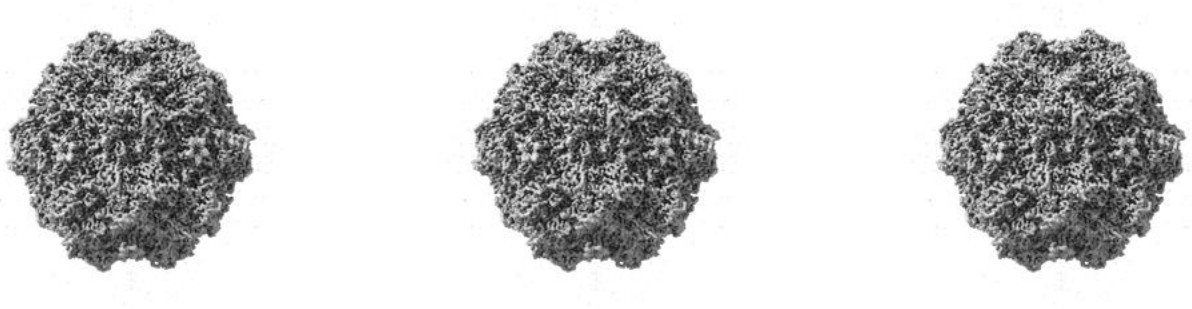


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

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

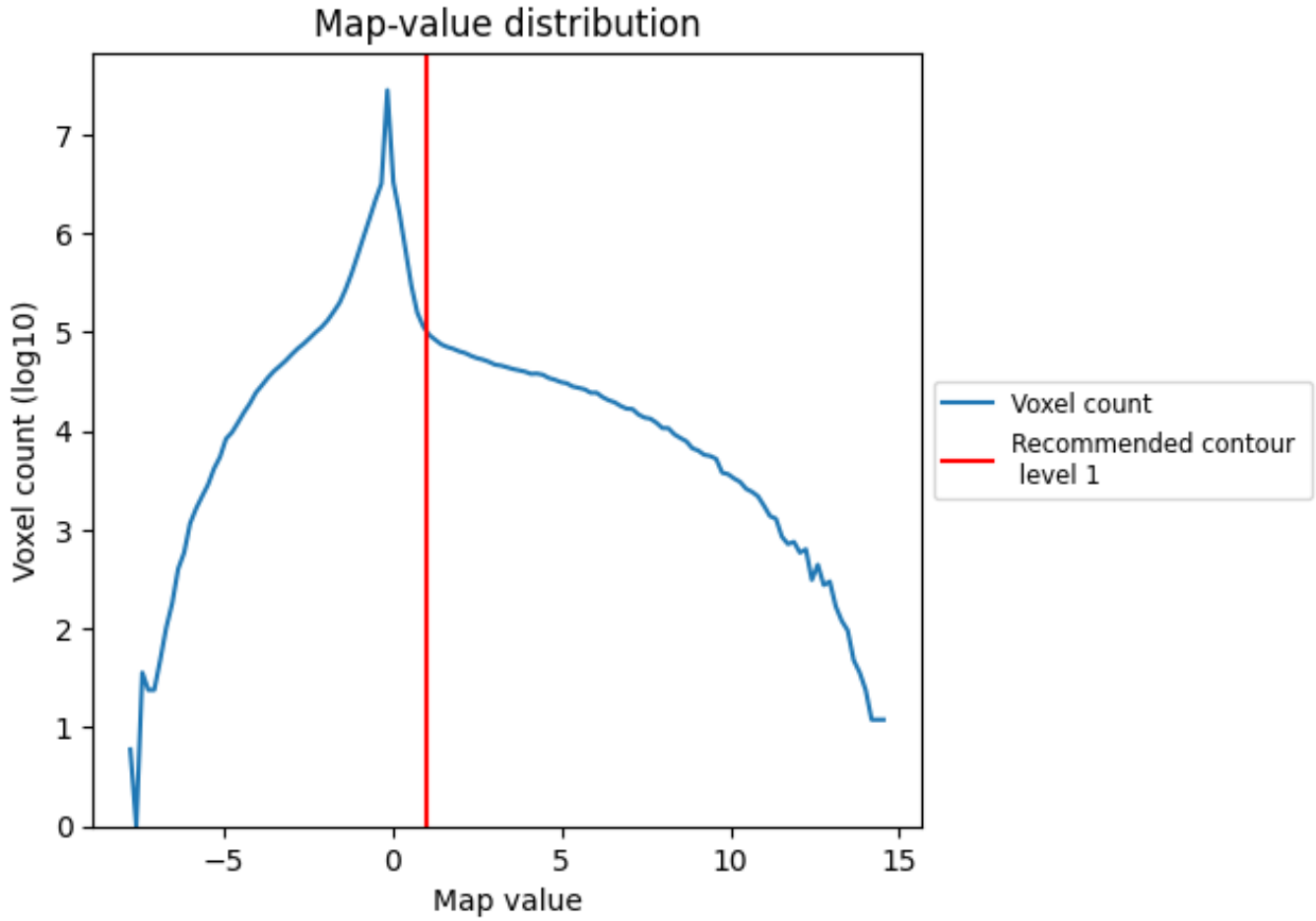
6.6 Mask visualisation (i)

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

7 Map analysis

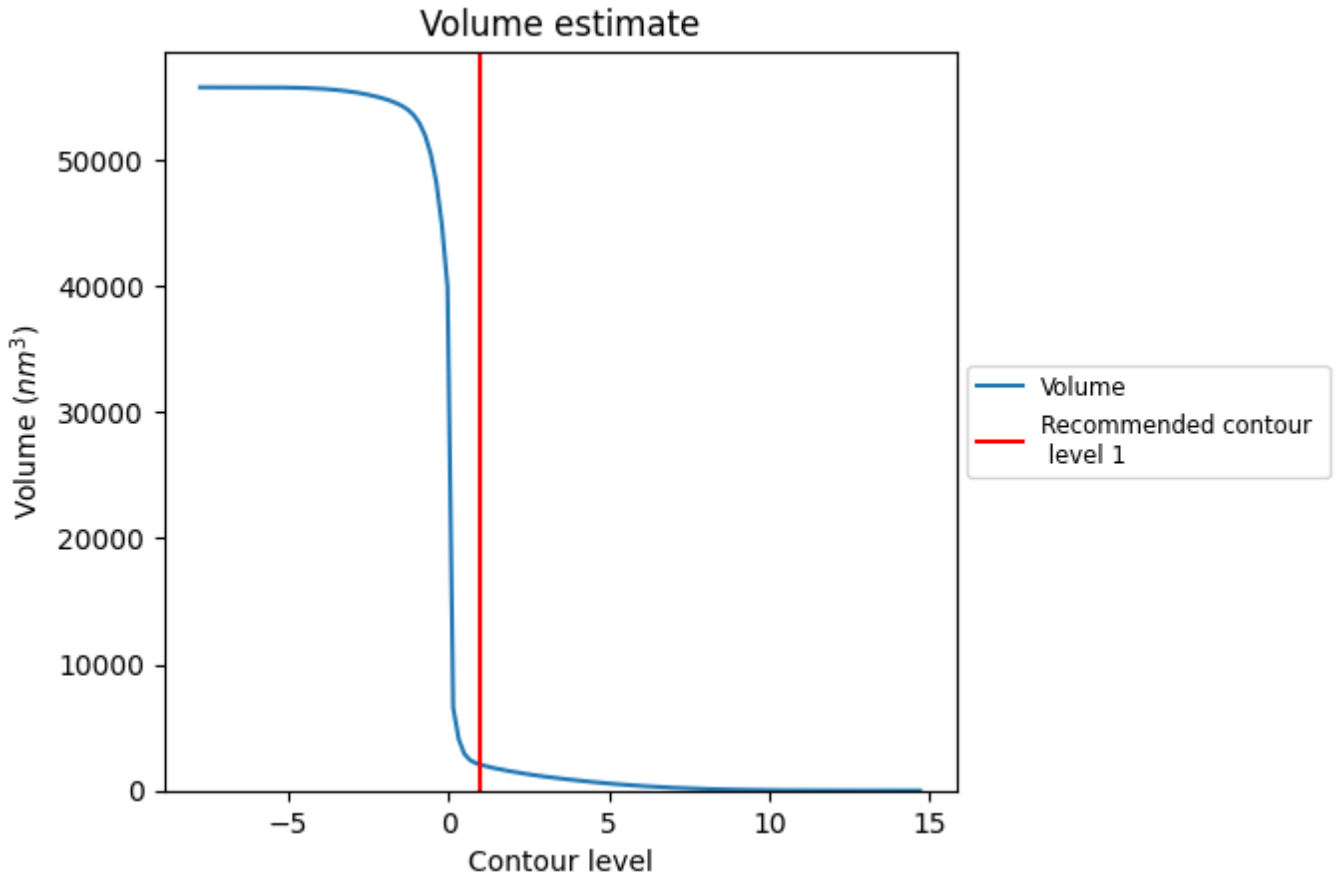
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

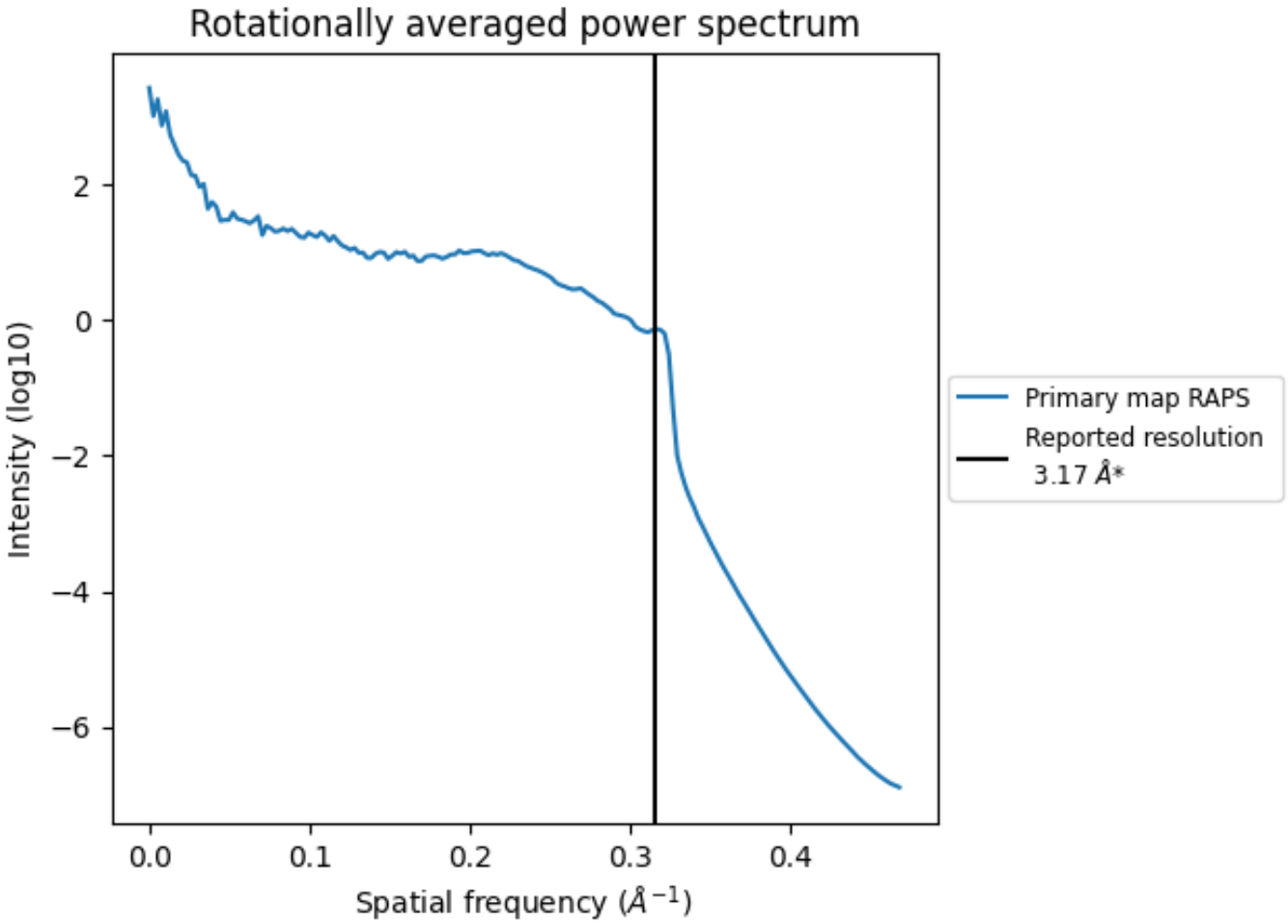
7.2 Volume estimate



The volume at the recommended contour level is 2048 nm^3; this corresponds to an approximate mass of 1850 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 0.315 Å^{-1}

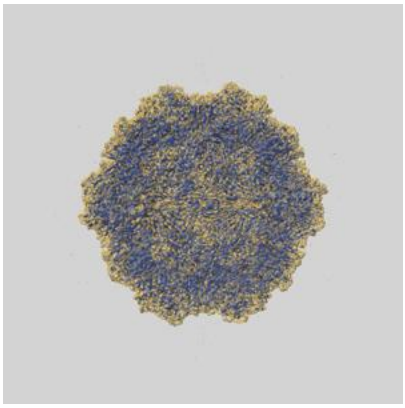
8 Fourier-Shell correlation

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

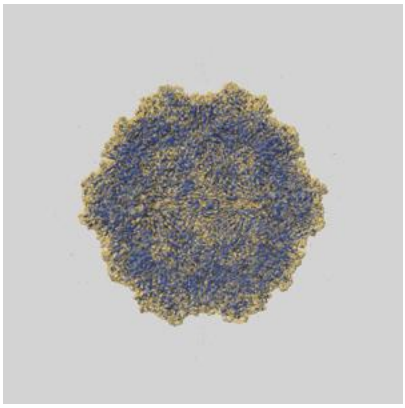
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-7071 and PDB model 6B9Q. Per-residue inclusion information can be found in section 3 on page 10.

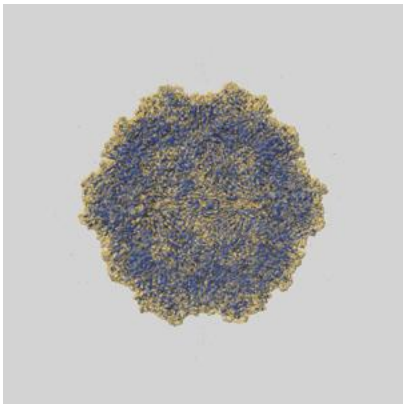
9.1 Map-model overlay



X



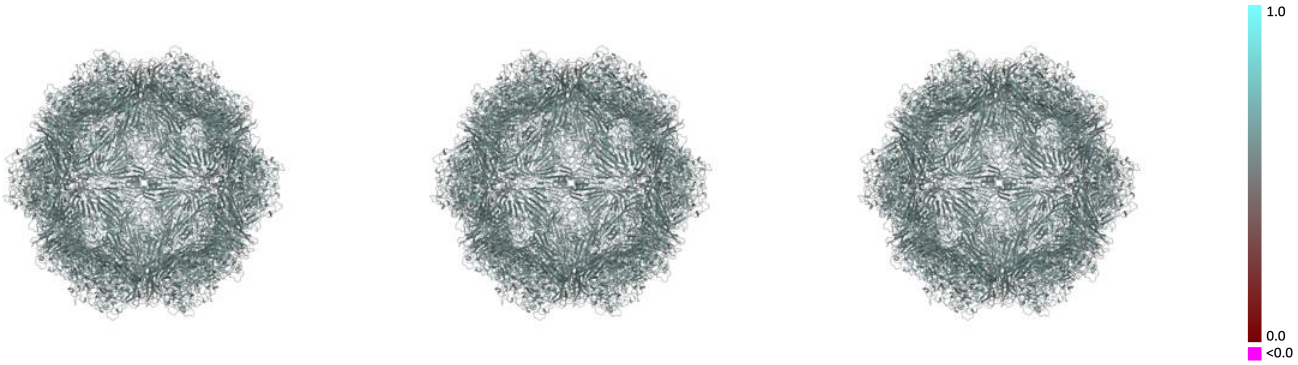
Y



Z

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

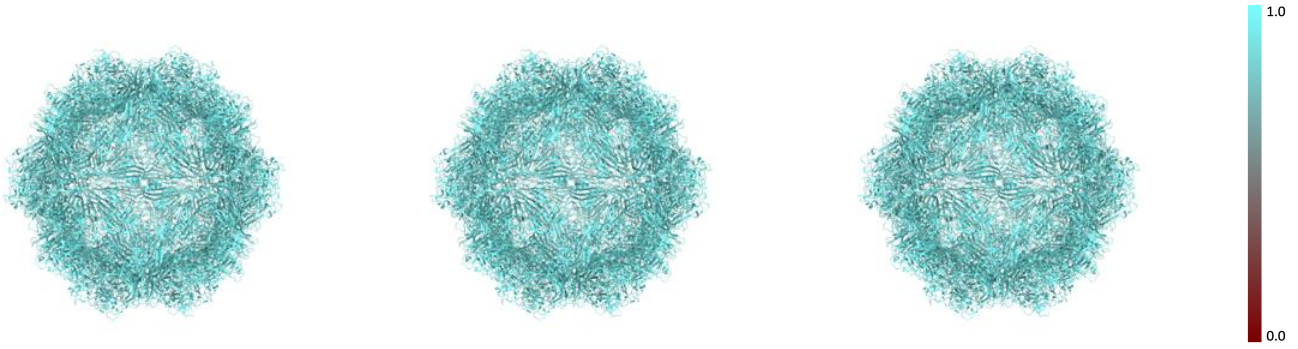
9.2 Q-score mapped to coordinate model



X Y Z

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

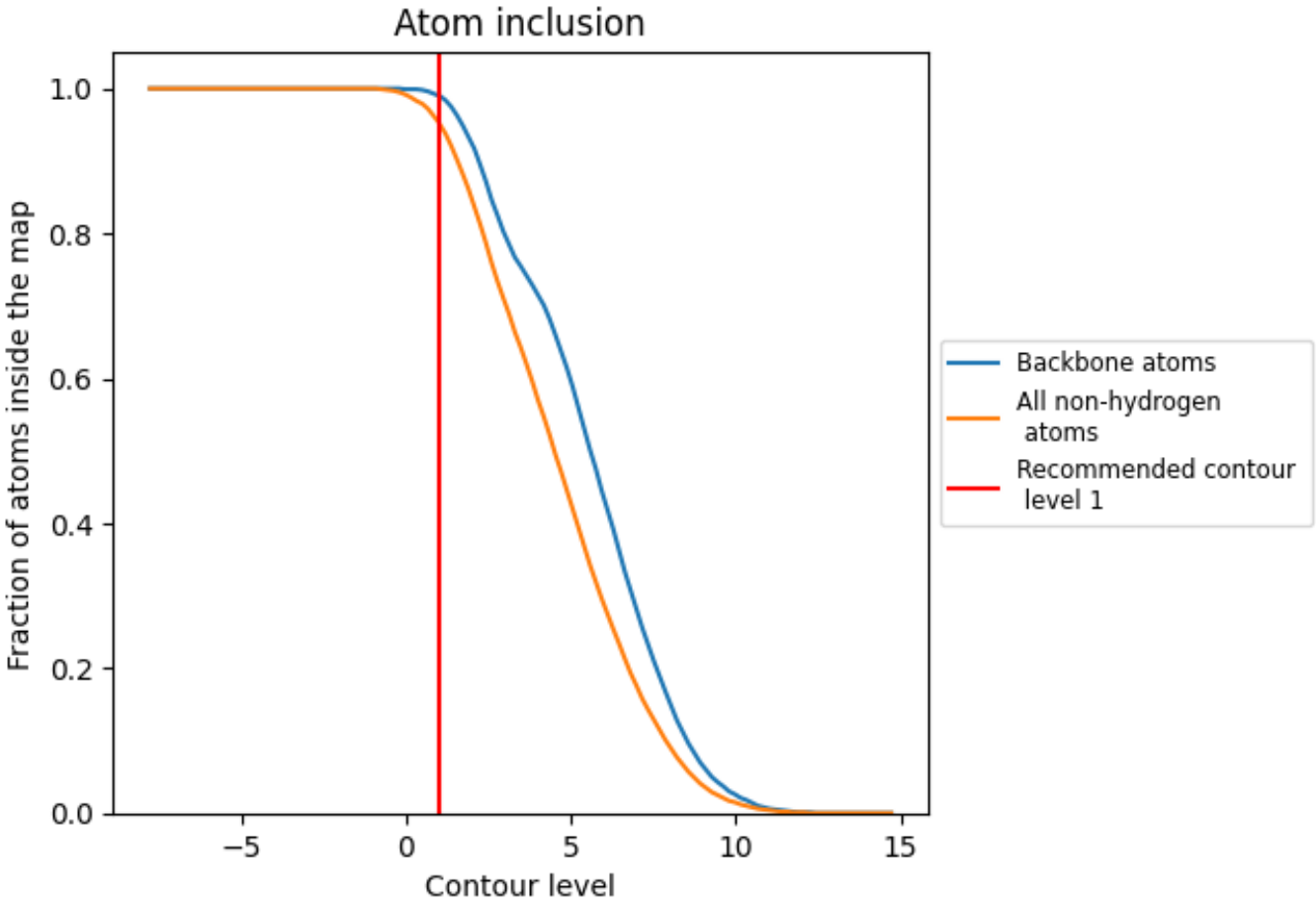
9.3 Atom inclusion mapped to coordinate model



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 99% of all backbone atoms, 95% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

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

Chain	Atom inclusion	Q-score
All	0.9530	0.5620
1	0.9540	0.5640
2	0.9540	0.5640
3	0.9540	0.5640
4	0.9540	0.5630
5	0.9540	0.5630
6	0.9540	0.5630
7	0.9520	0.5630
8	0.9520	0.5620
A	0.9540	0.5630
B	0.9540	0.5620
C	0.9510	0.5620
D	0.9530	0.5620
E	0.9520	0.5620
F	0.9540	0.5610
G	0.9520	0.5620
H	0.9520	0.5620
I	0.9510	0.5610
J	0.9540	0.5620
K	0.9520	0.5620
L	0.9550	0.5620
M	0.9520	0.5640
N	0.9520	0.5630
O	0.9520	0.5630
P	0.9520	0.5620
Q	0.9510	0.5610
R	0.9540	0.5610
S	0.9540	0.5630
T	0.9510	0.5620
U	0.9540	0.5620
V	0.9520	0.5600
W	0.9520	0.5610
X	0.9520	0.5620
Y	0.9500	0.5630
Z	0.9520	0.5630

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Chain	Atom inclusion	Q-score
a	0.9510	0.5620
b	0.9520	0.5630
c	0.9520	0.5630
d	0.9520	0.5620
e	0.9530	0.5630
f	0.9520	0.5630
g	0.9520	0.5620
h	0.9540	0.5640
i	0.9520	0.5630
j	0.9520	0.5600
k	0.9540	0.5610
l	0.9540	0.5620
m	0.9540	0.5630
n	0.9520	0.5620
o	0.9510	0.5610
p	0.9540	0.5620
q	0.9520	0.5630
r	0.9510	0.5600
s	0.9540	0.5610
t	0.9540	0.5620
u	0.9550	0.5620
v	0.9540	0.5620
w	0.9540	0.5620
x	0.9520	0.5620
y	0.9520	0.5610
z	0.9530	0.5620