Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 05:50 PM UTC

PDB ID	:	8FZ0 / pdb_00008fz0
EMDB ID	:	EMD-29600
Title	:	Cryo-EM Structure of empty AAV2 capsid
Authors	:	Bennett, A.D.; McKenna, R.
Deposited on	:	2023-01-27
Resolution	:	2.94 Å(reported)

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

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

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

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

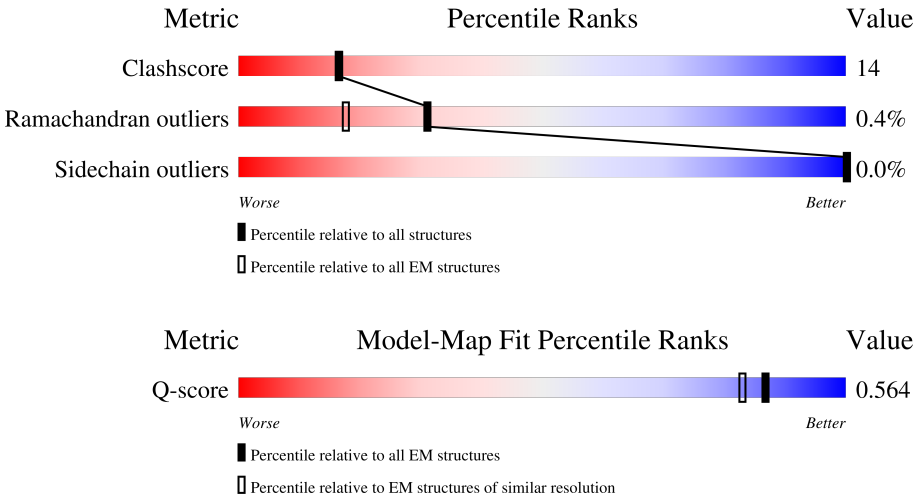
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 2.94 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	13068 (2.44 - 3.44)

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	735	50% 20% 29%
1	2	735	51% 20% 29%
1	3	735	51% 20% 29%
1	4	735	51% 19% 29%

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Mol	Chain	Length	Quality of chain
1	5	735	50% 20% 29%
1	6	735	50% 20% 29%
1	7	735	51% 19% 29%
1	8	735	51% 19% 29%
1	A	735	50% 21% 29%
1	B	735	50% 21% 29%
1	C	735	50% 21% 29%
1	D	735	50% 20% 29%
1	E	735	50% 20% 29%
1	F	735	51% 19% 29%
1	G	735	50% 20% 29%
1	H	735	50% 21% 29%
1	I	735	49% 21% 29%
1	J	735	51% 20% 29%
1	K	735	50% 20% 29%
1	L	735	50% 21% 29%
1	M	735	50% 21% 29%
1	N	735	50% 20% 29%
1	O	735	50% 20% 29%
1	P	735	50% 20% 29%
1	Q	735	50% 20% 29%
1	R	735	50% 21% 29%
1	S	735	50% 20% 29%
1	T	735	50% 20% 29%
1	U	735	50% 21% 29%

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Mol	Chain	Length	Quality of chain
1	V	735	50% 21% 29%
1	W	735	51% 19% 29%
1	X	735	51% 20% 29%
1	Y	735	51% 19% 29%
1	Z	735	50% 20% 29%
1	a	735	51% 20% 29%
1	b	735	50% 21% 29%
1	c	735	50% 20% 29%
1	d	735	51% 20% 29%
1	e	735	51% 20% 29%
1	f	735	50% 21% 29%
1	g	735	50% 21% 29%
1	h	735	51% 20% 29%
1	i	735	50% 20% 29%
1	j	735	51% 19% 29%
1	k	735	49% 21% 29%
1	l	735	50% 20% 29%
1	m	735	51% 19% 29%
1	n	735	50% 20% 29%
1	o	735	51% 20% 29%
1	p	735	50% 20% 29%
1	q	735	50% 20% 29%
1	r	735	50% 20% 29%
1	s	735	50% 21% 29%
1	t	735	50% 21% 29%

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Mol	Chain	Length	Quality of chain
1	u	735	49% 21% 29%
1	v	735	49% 21% 29%
1	w	735	50% 21% 29%
1	x	735	50% 21% 29%
1	y	735	51% 20% 29%
1	z	735	50% 20% 29%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 250080 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 VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	B	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	C	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	D	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	E	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	F	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	G	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	H	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	I	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	J	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	K	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	L	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	M	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	N	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	O	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	P	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	Q	519	Total 4168	C 2621	N 732	O 802	S 13	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	S	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	T	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	U	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	V	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	W	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	X	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	Y	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	Z	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	a	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	b	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	c	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	d	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	e	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	f	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	g	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	h	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	i	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	j	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	k	519	Total 4168	C 2621	N 732	O 802	S 13	3	0
1	l	519	Total 4168	C 2621	N 732	O 802	S 13	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	n	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	o	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	p	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	q	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	r	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	s	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	t	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	u	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	v	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	w	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	x	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	y	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	z	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	1	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	2	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	3	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	4	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	5	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	6	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		
1	7	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		

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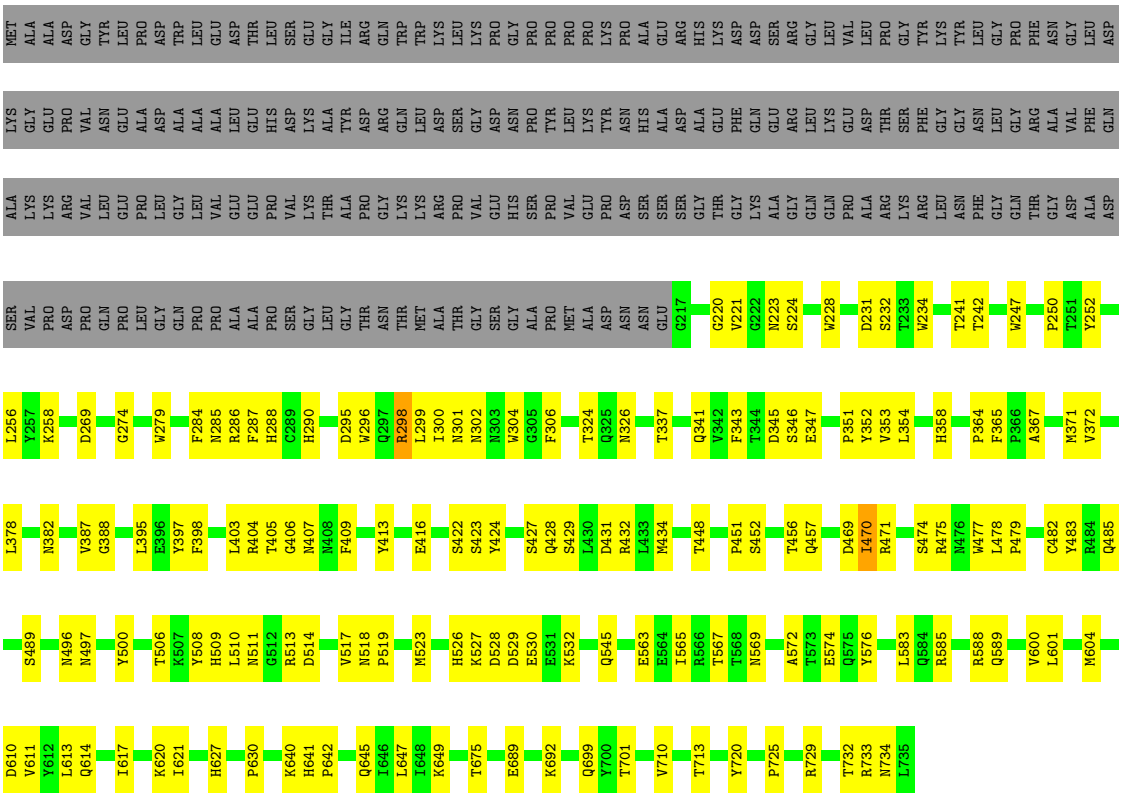
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	519	Total	C	N	O	S	3	0
			4168	2621	732	802	13		

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.

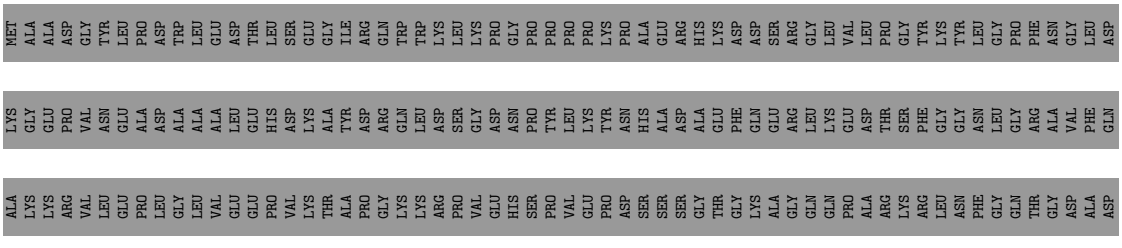
• Molecule 1: Capsid protein VP1

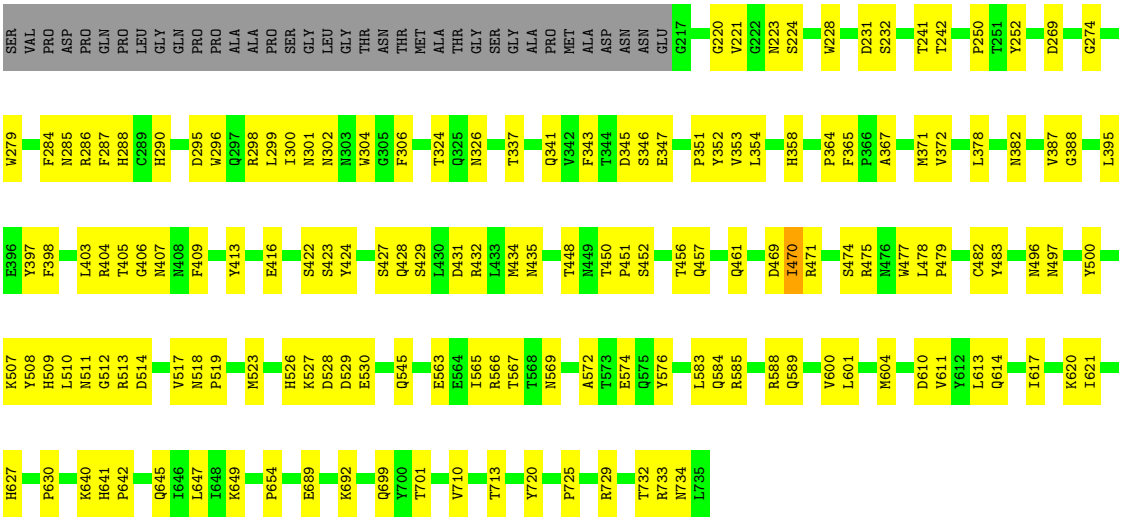
Chain A:



• Molecule 1: Capsid protein VP1

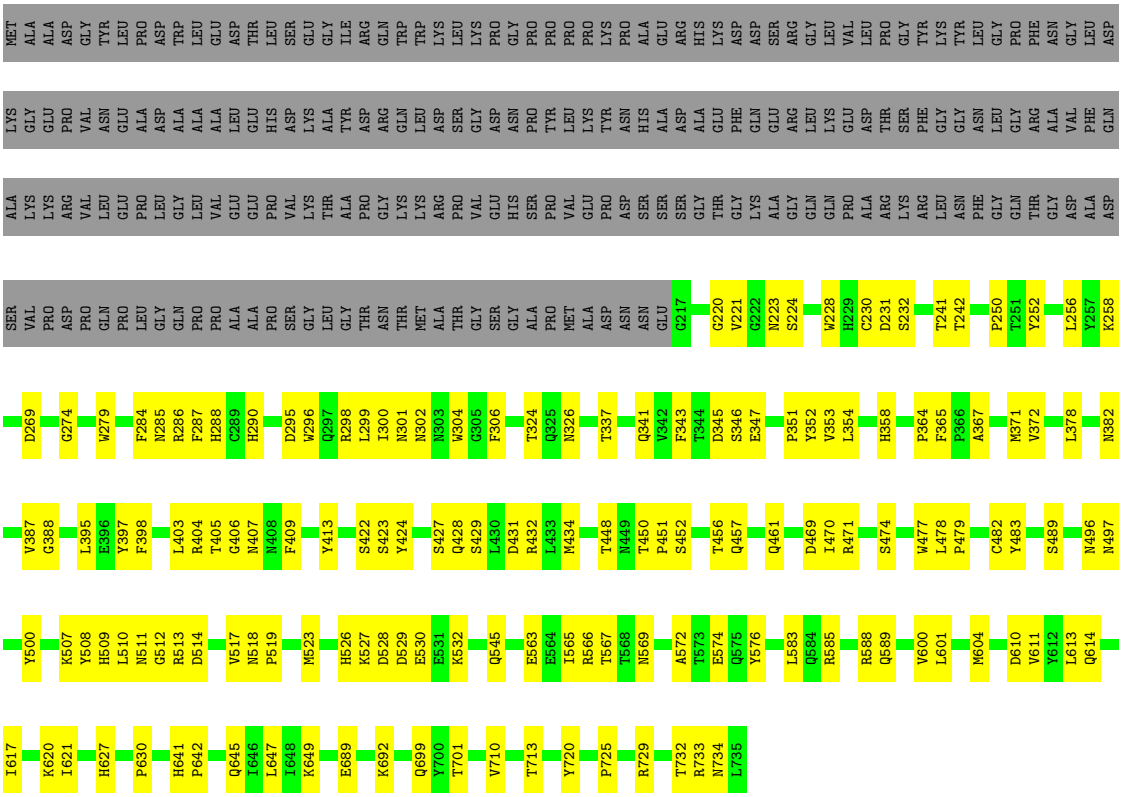
Chain B:





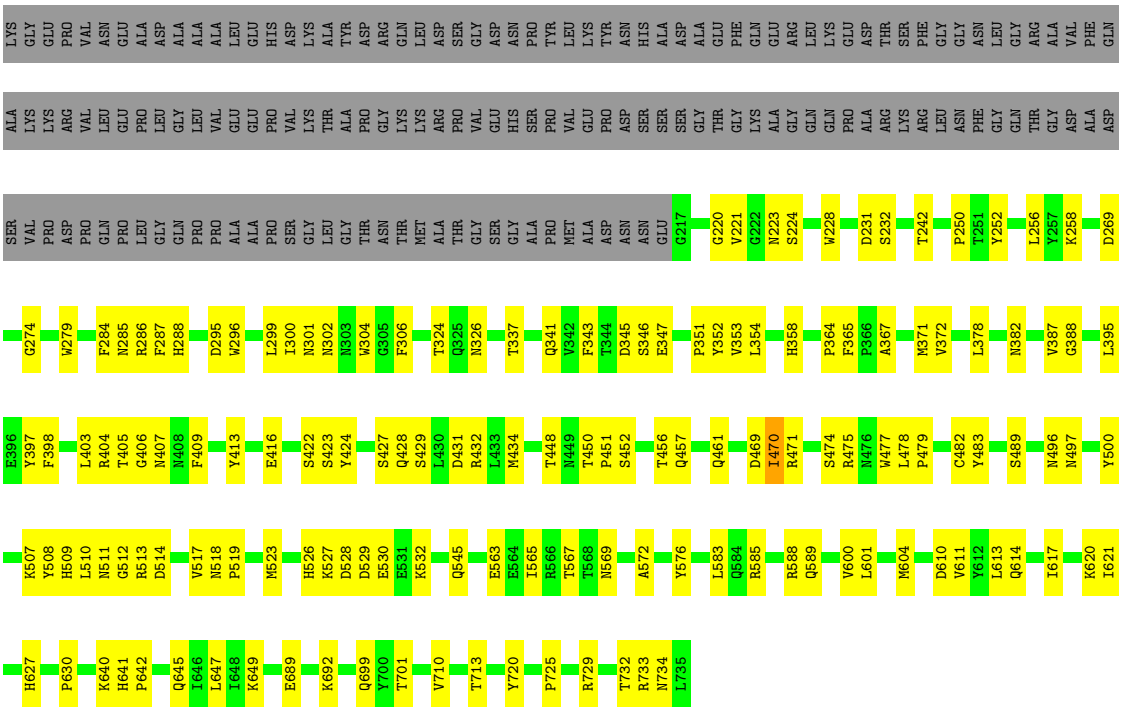
• Molecule 1: Capsid protein VP1

Chain C:



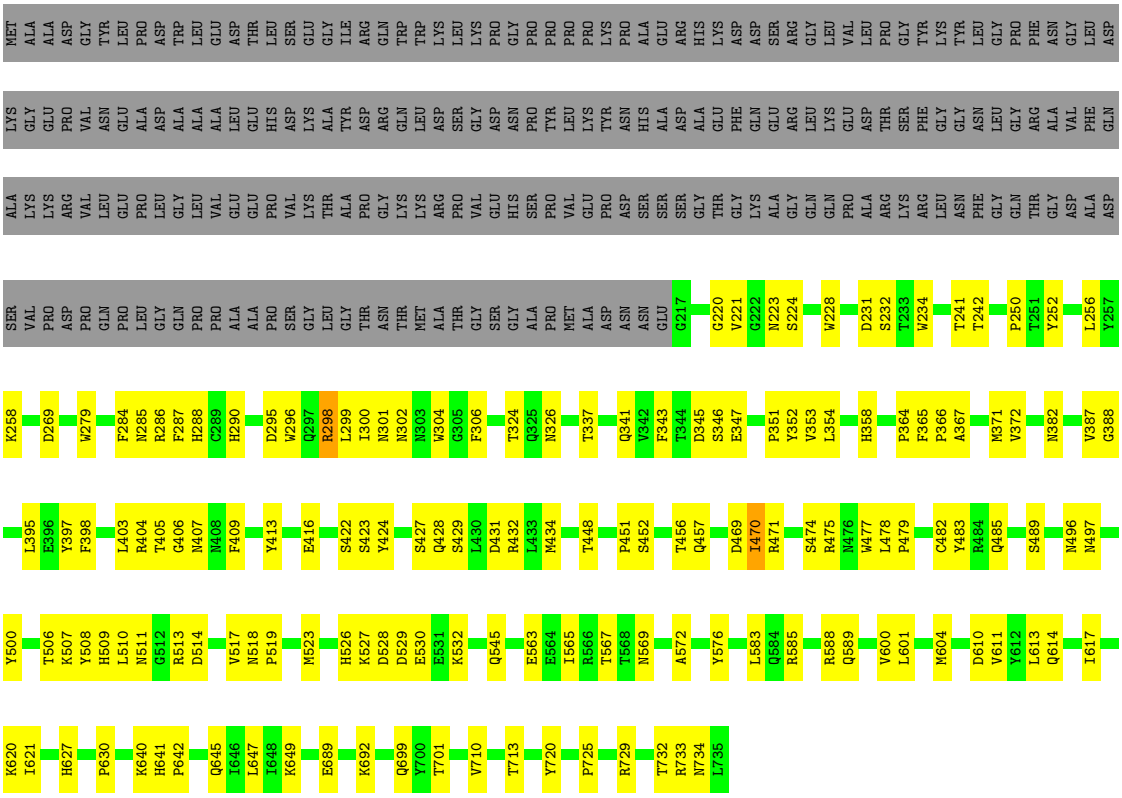
• Molecule 1: Capsid protein VP1

Chain D:



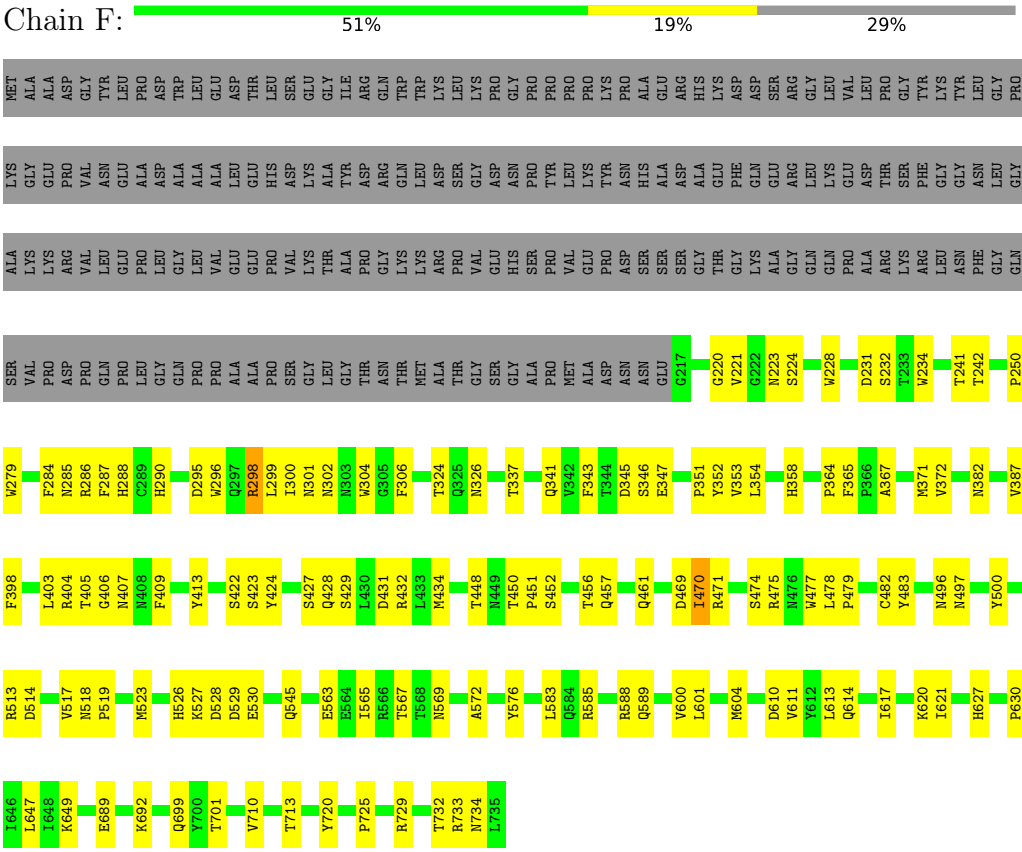
• Molecule 1: Capsid protein VP1

Chain E:



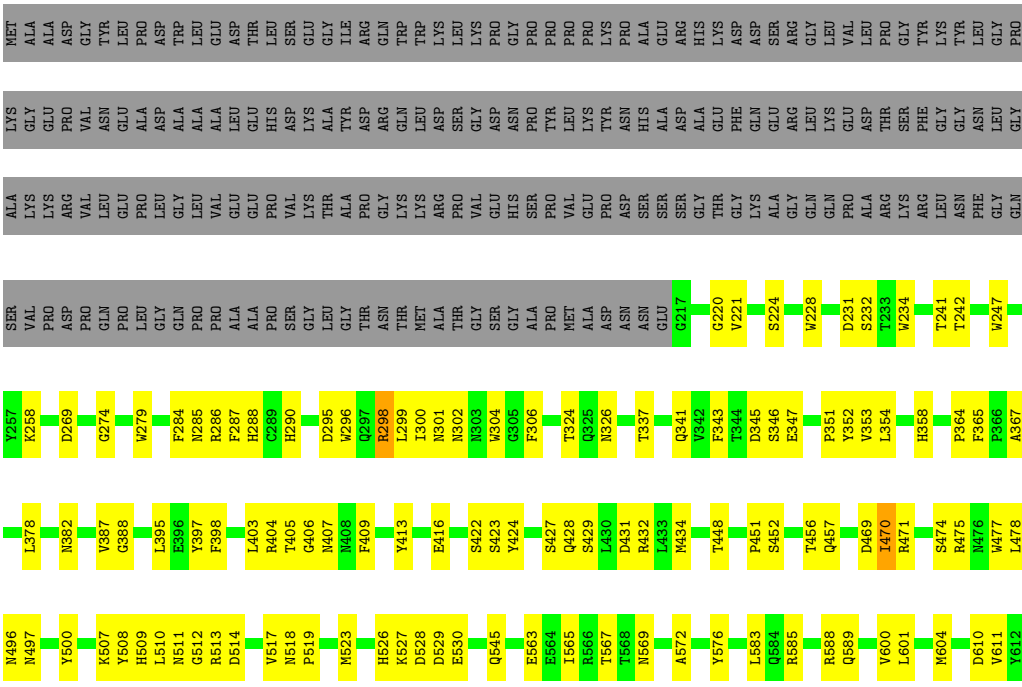
• Molecule 1: Capsid protein VP1

Chain F:



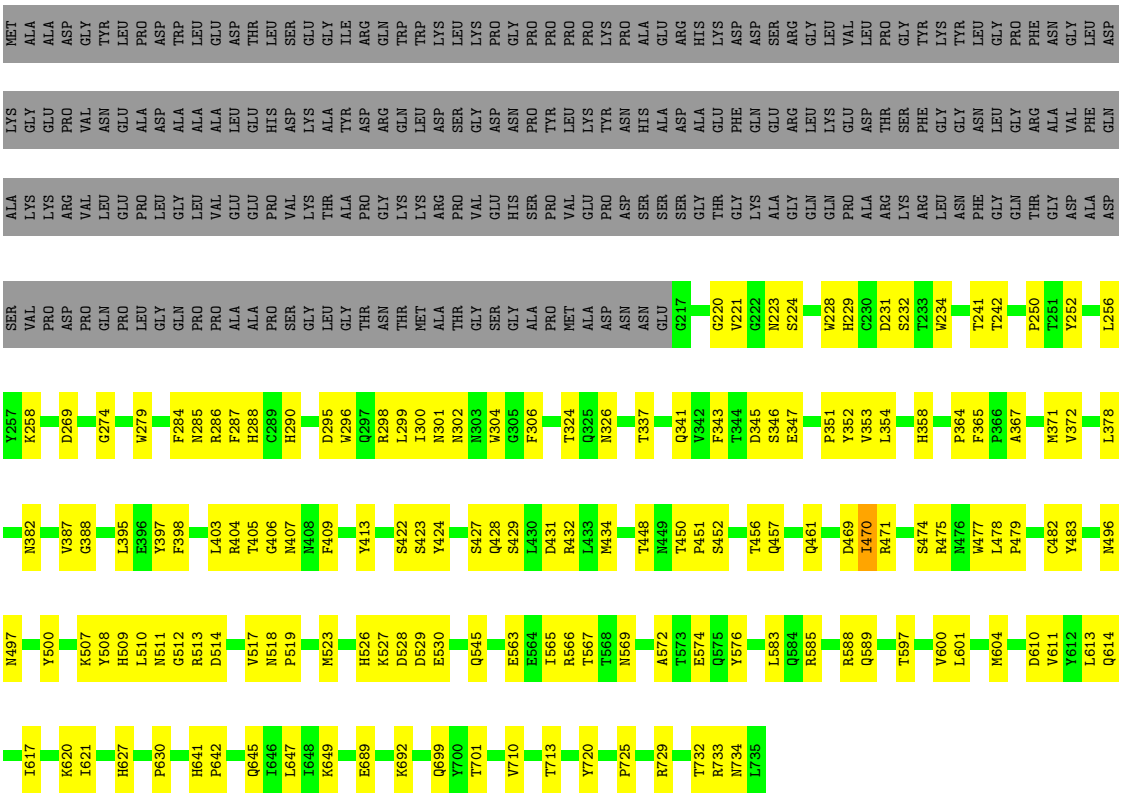
• Molecule 1: Capsid protein VP1

Chain G:



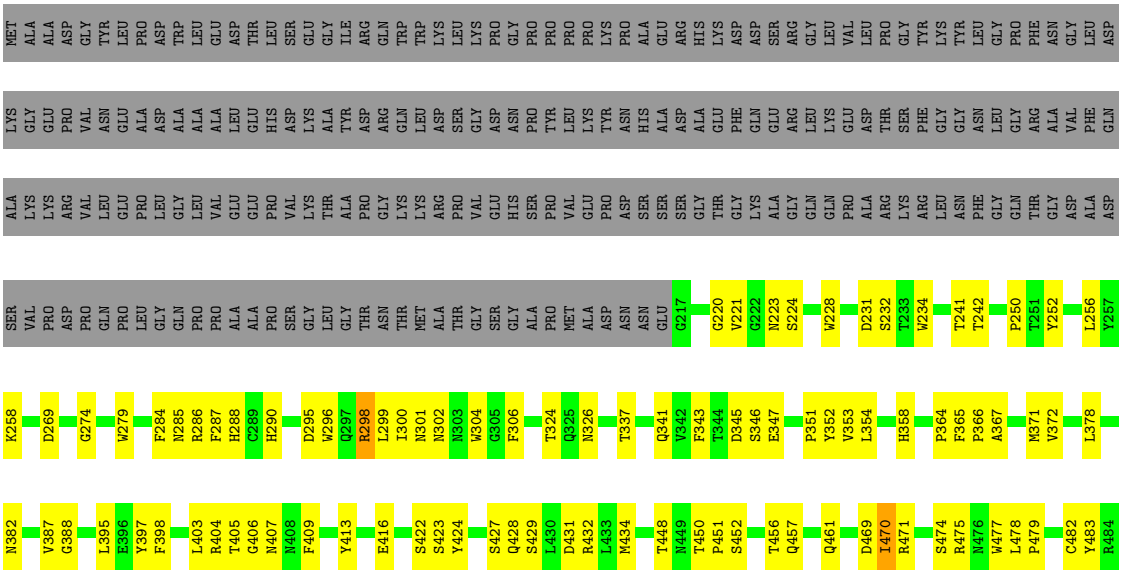
• Molecule 1: Capsid protein VP1

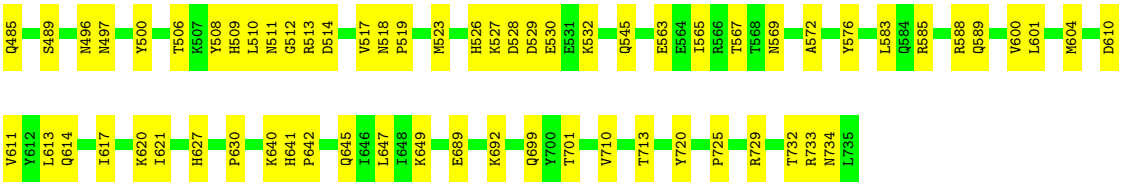
Chain H:



• Molecule 1: Capsid protein VP1

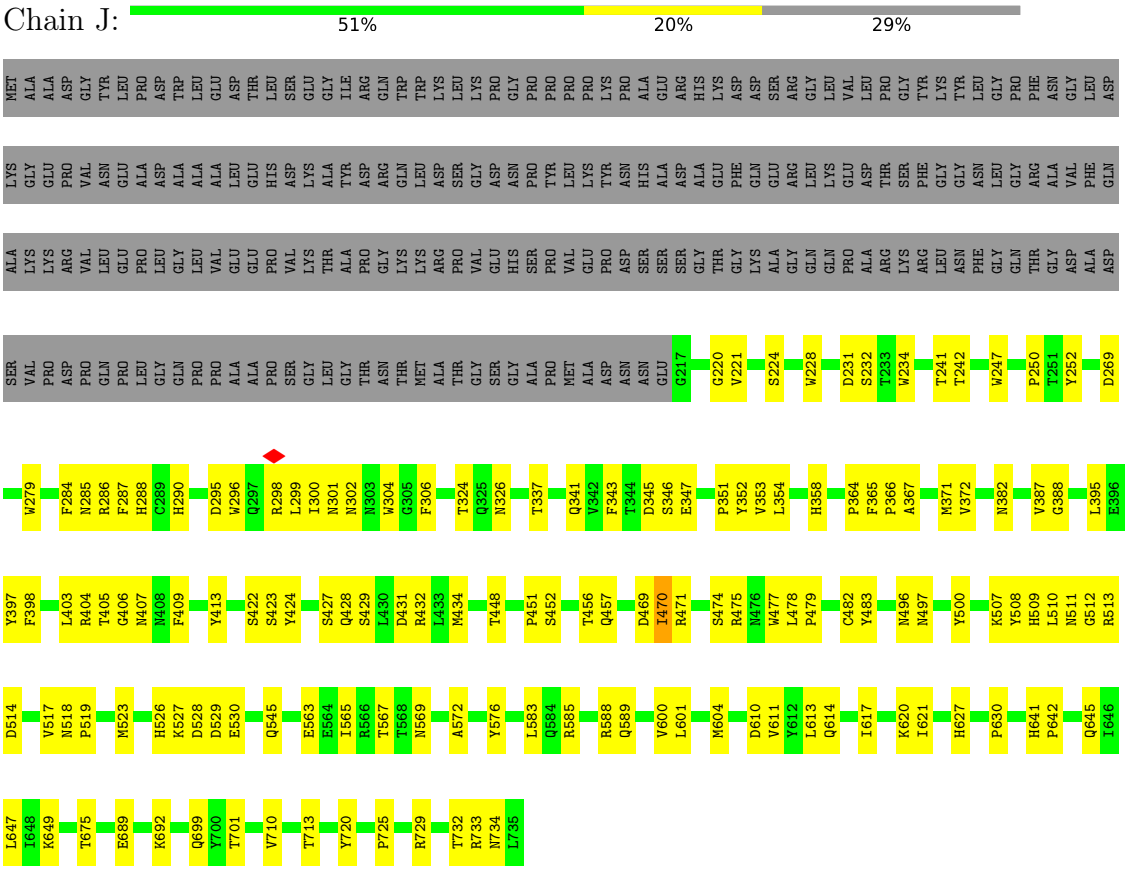
Chain I:





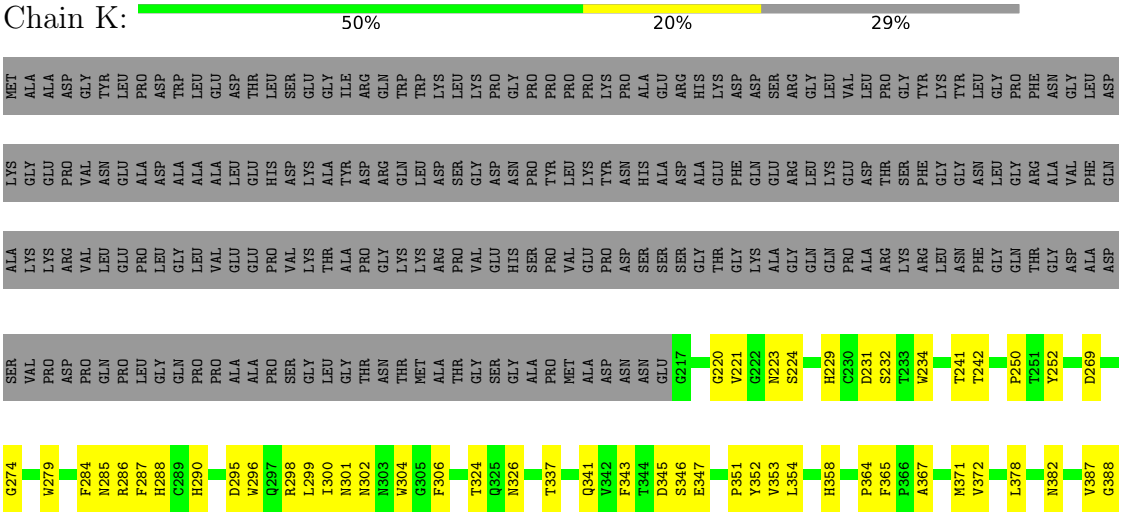
• Molecule 1: Capsid protein VP1

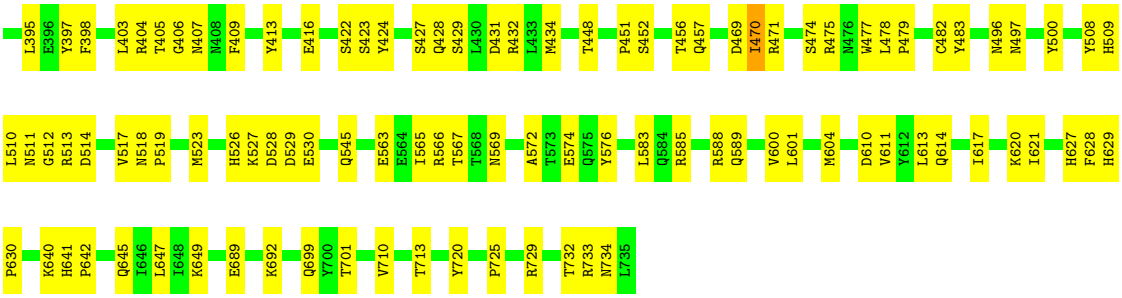
Chain J:



• Molecule 1: Capsid protein VP1

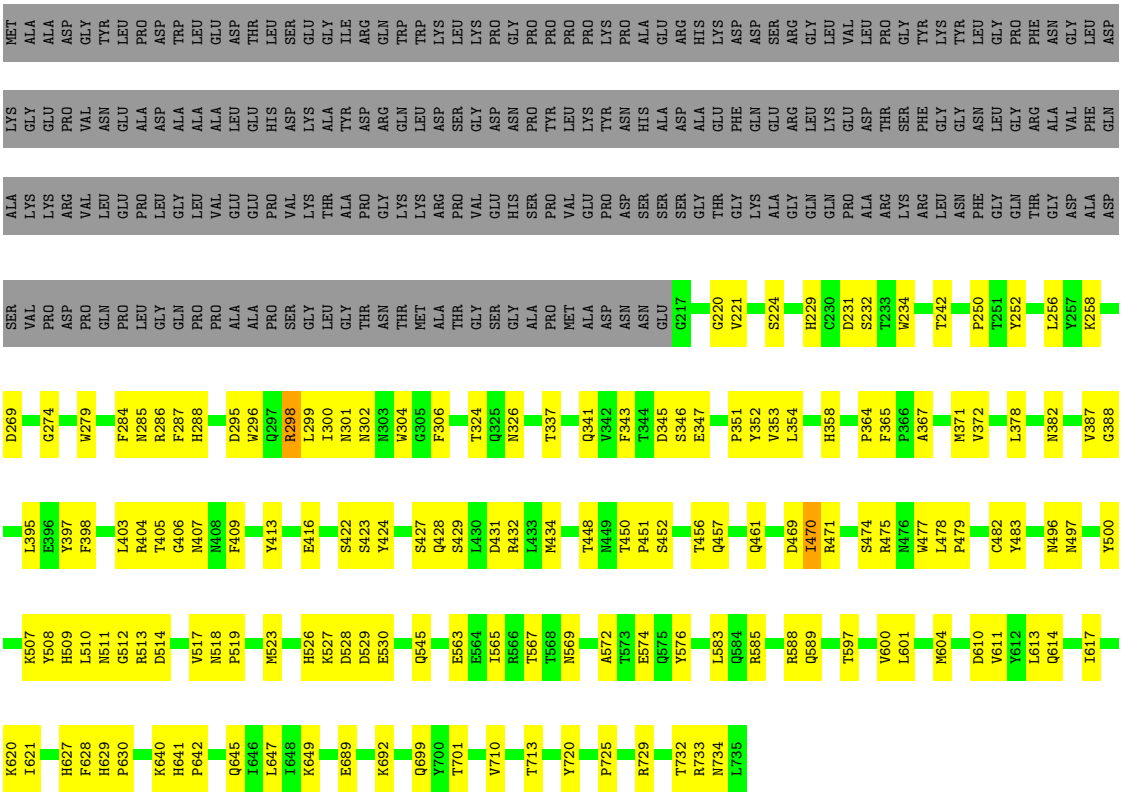
Chain K:





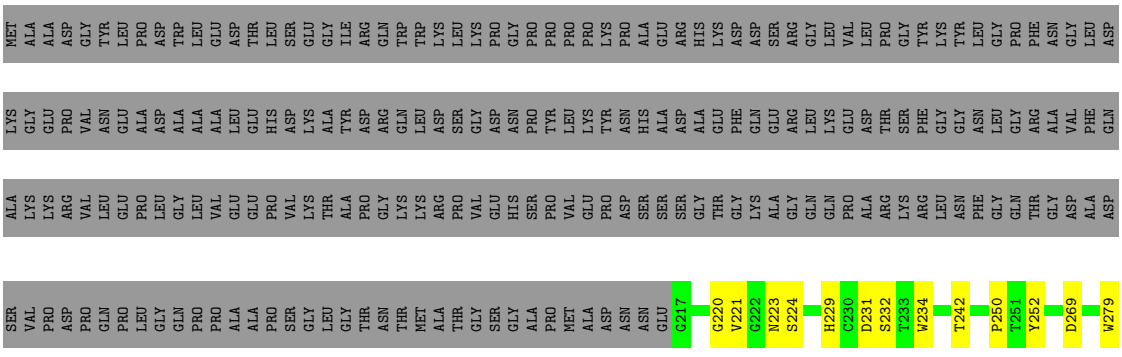
• Molecule 1: Capsid protein VP1

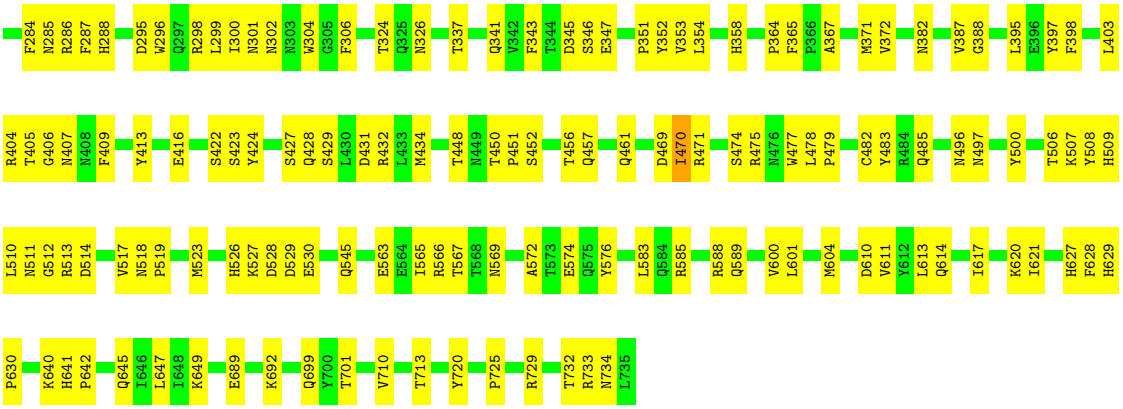
Chain L:



• Molecule 1: Capsid protein VP1

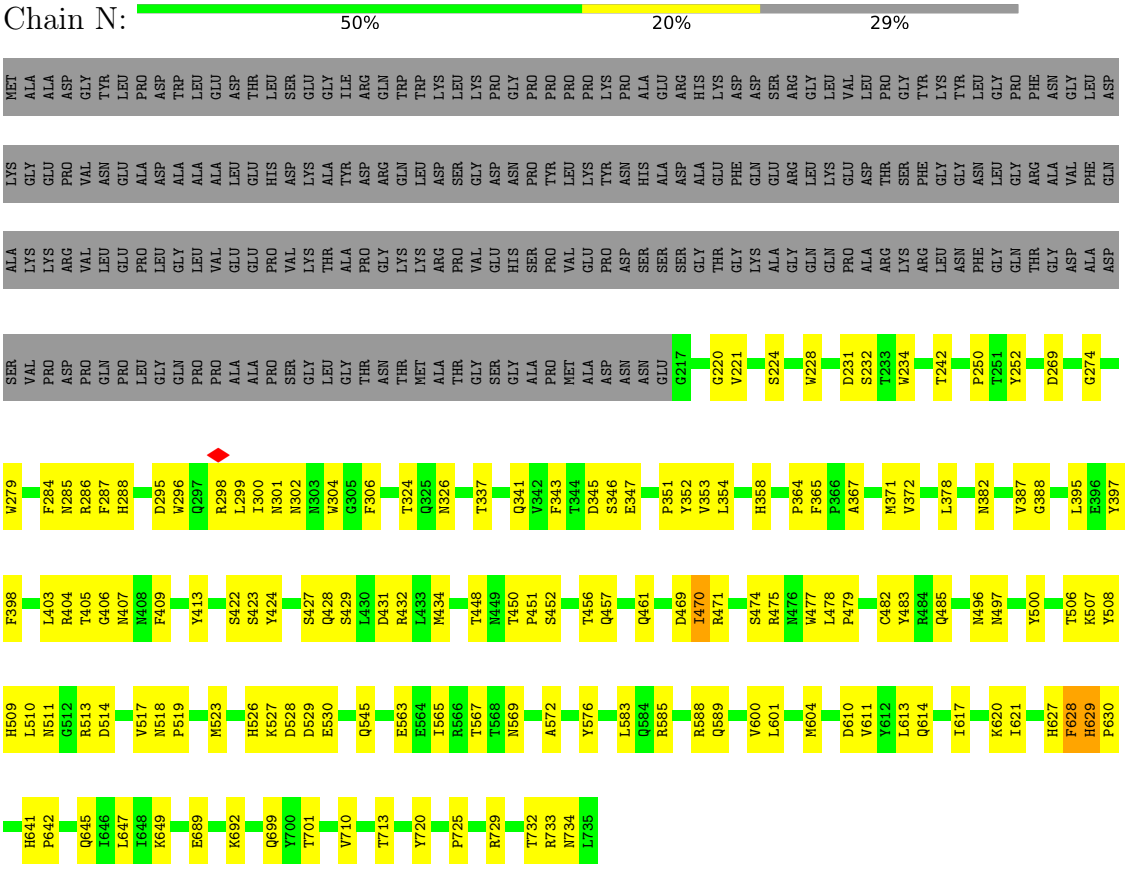
Chain M:





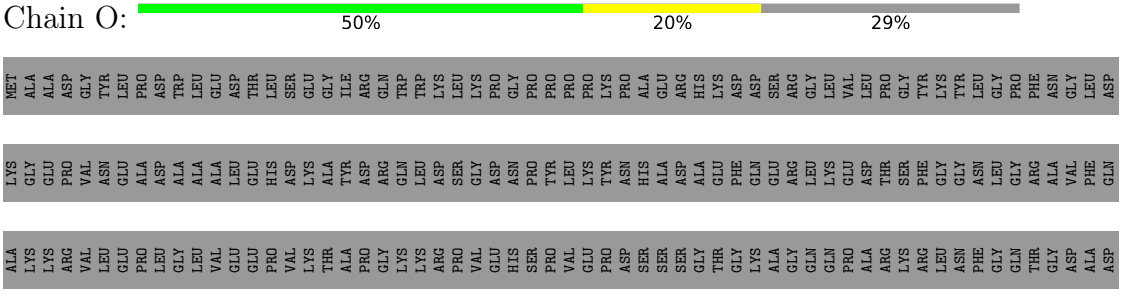
• Molecule 1: Capsid protein VP1

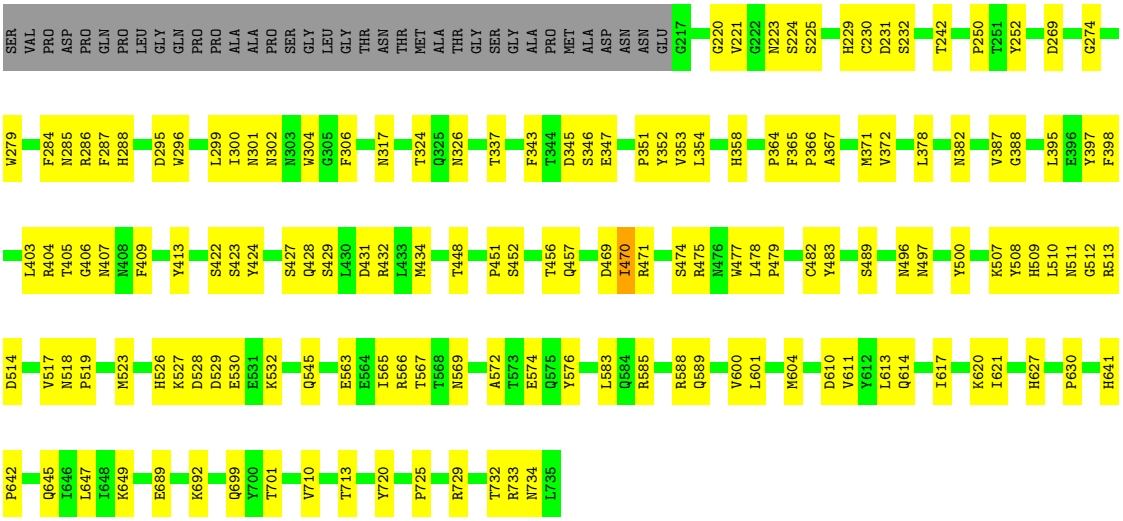
Chain N:



• Molecule 1: Capsid protein VP1

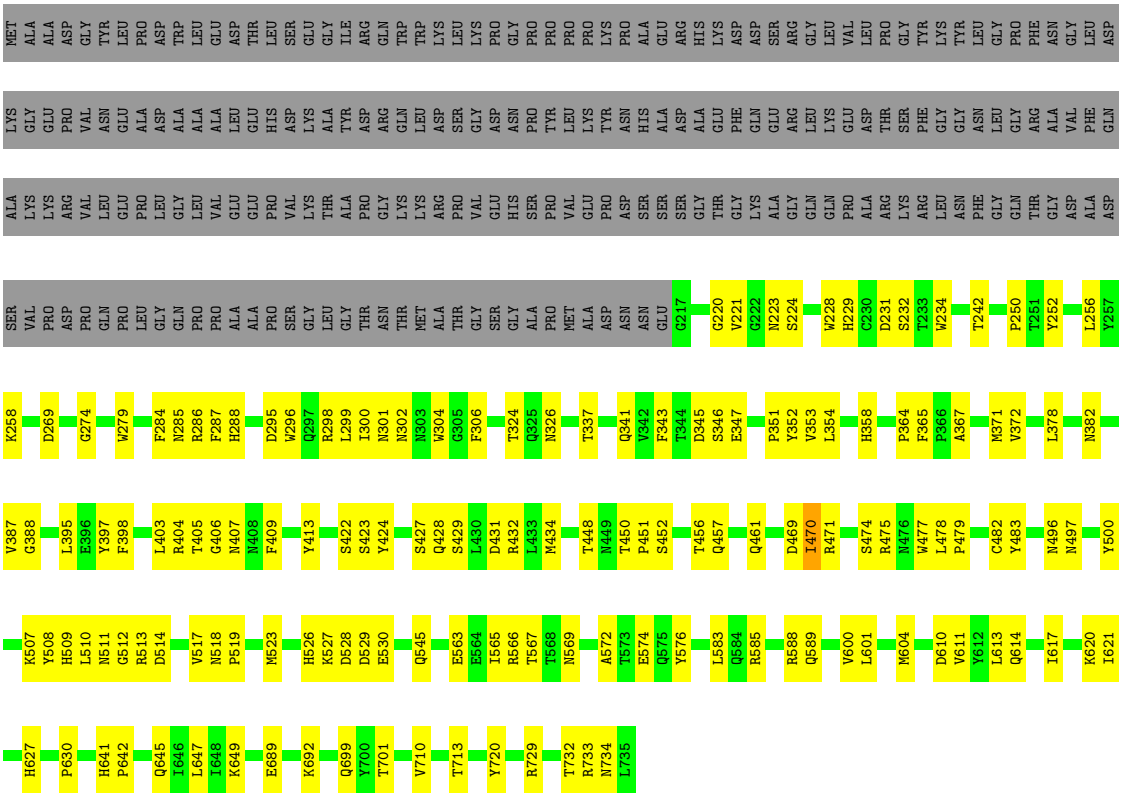
Chain O:





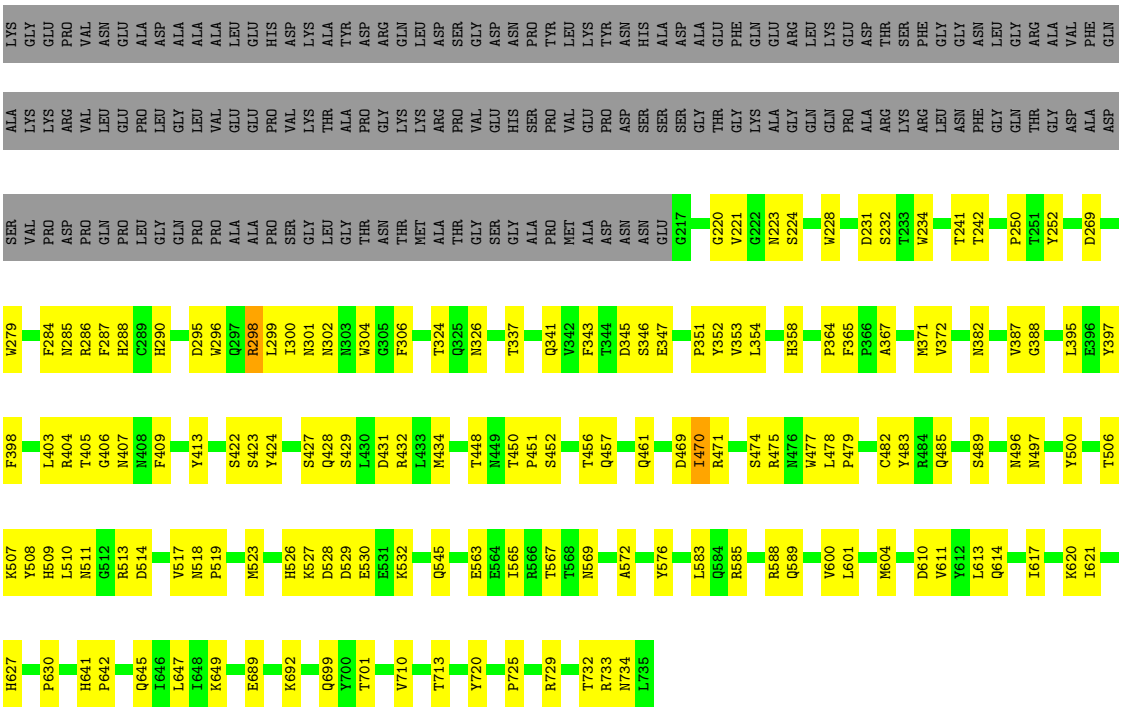
• Molecule 1: Capsid protein VP1

Chain P:



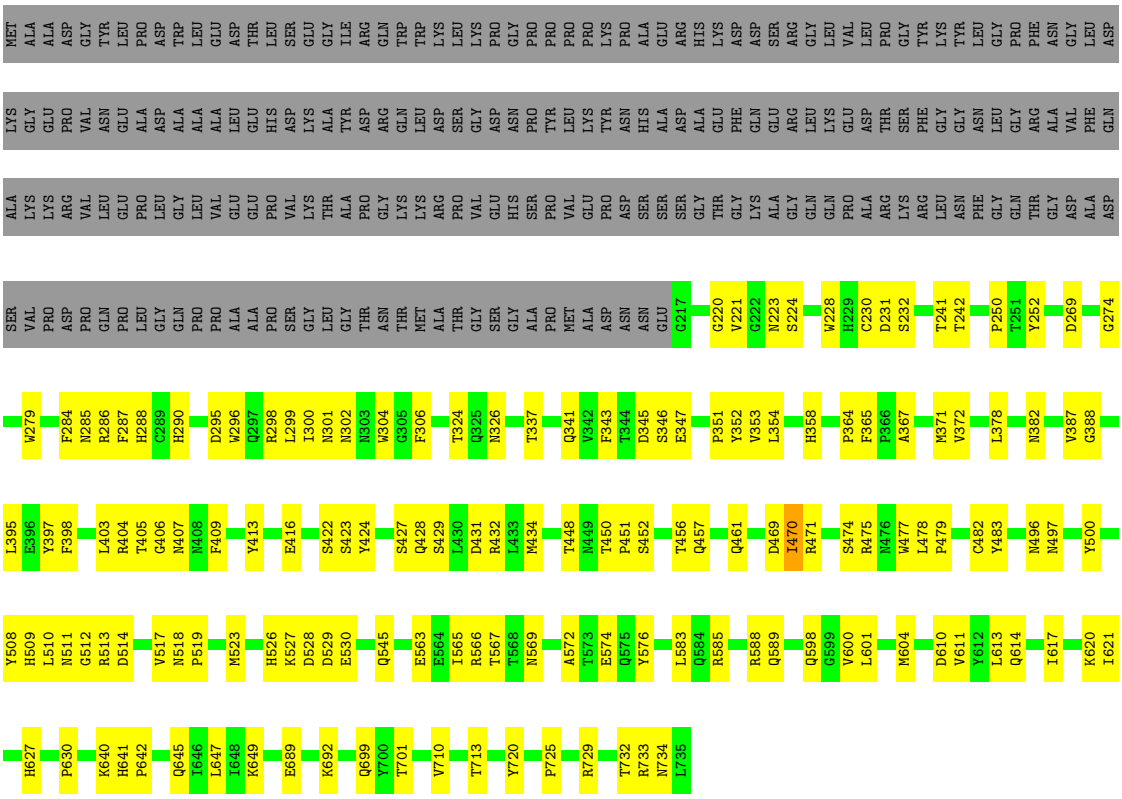
• Molecule 1: Capsid protein VP1

Chain Q:



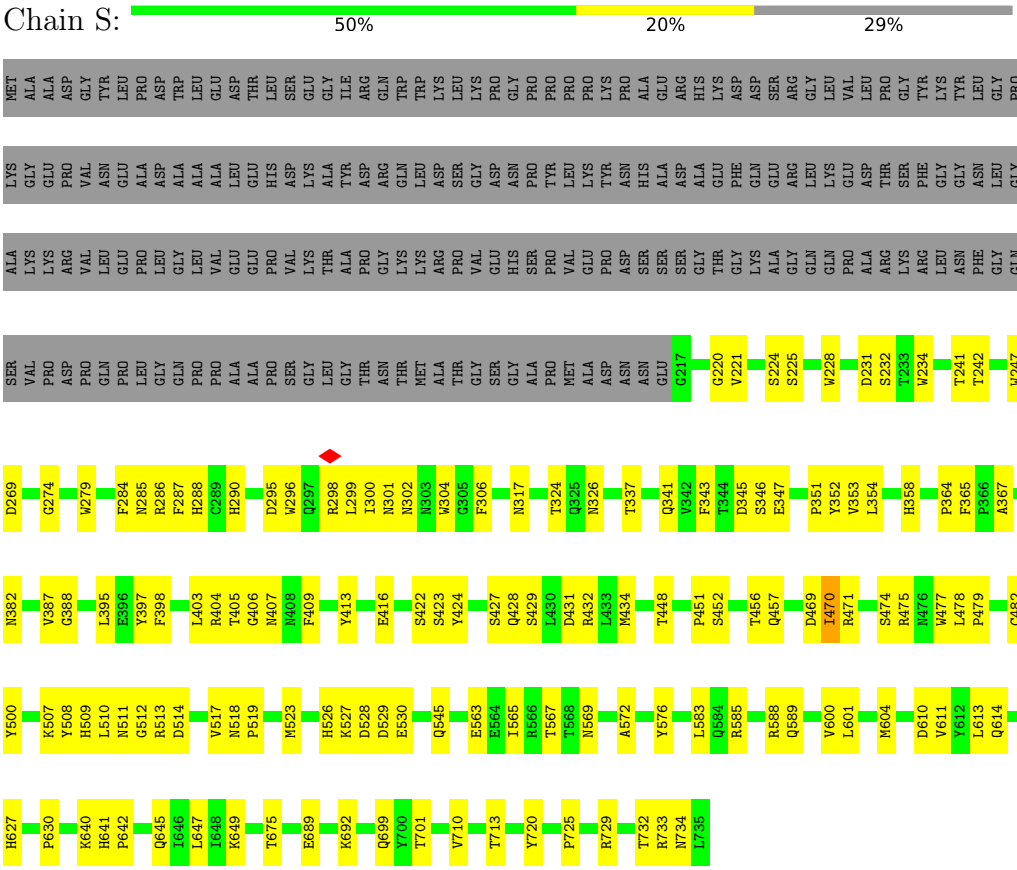
• Molecule 1: Capsid protein VP1

Chain R:



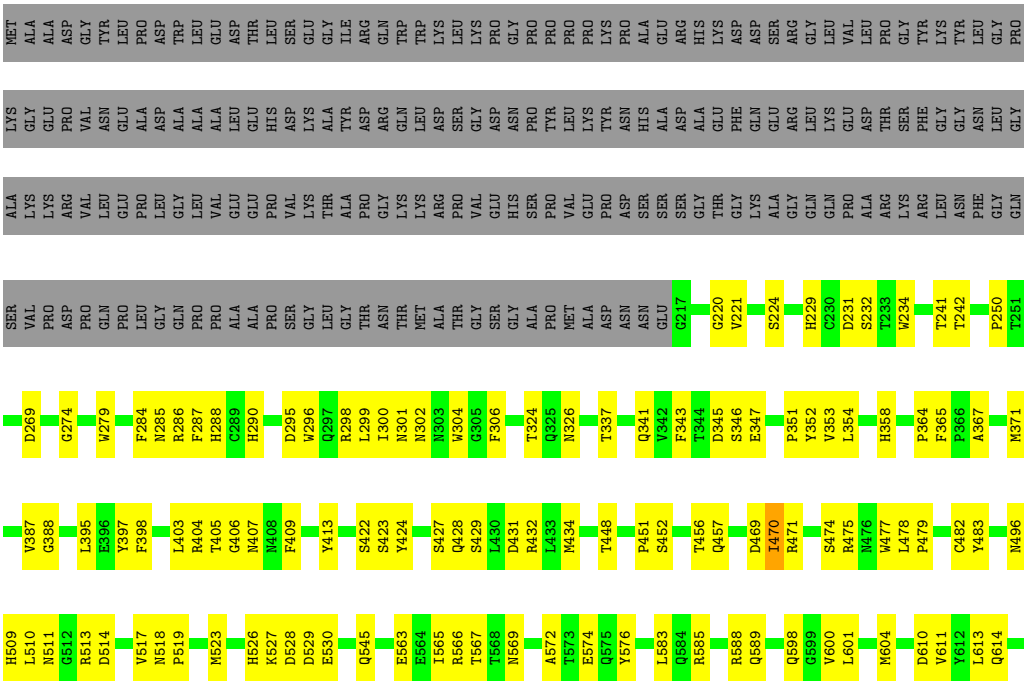
• Molecule 1: Capsid protein VP1

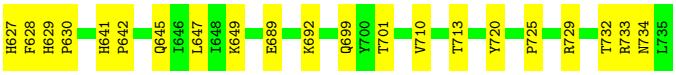
Chain S:



• Molecule 1: Capsid protein VP1

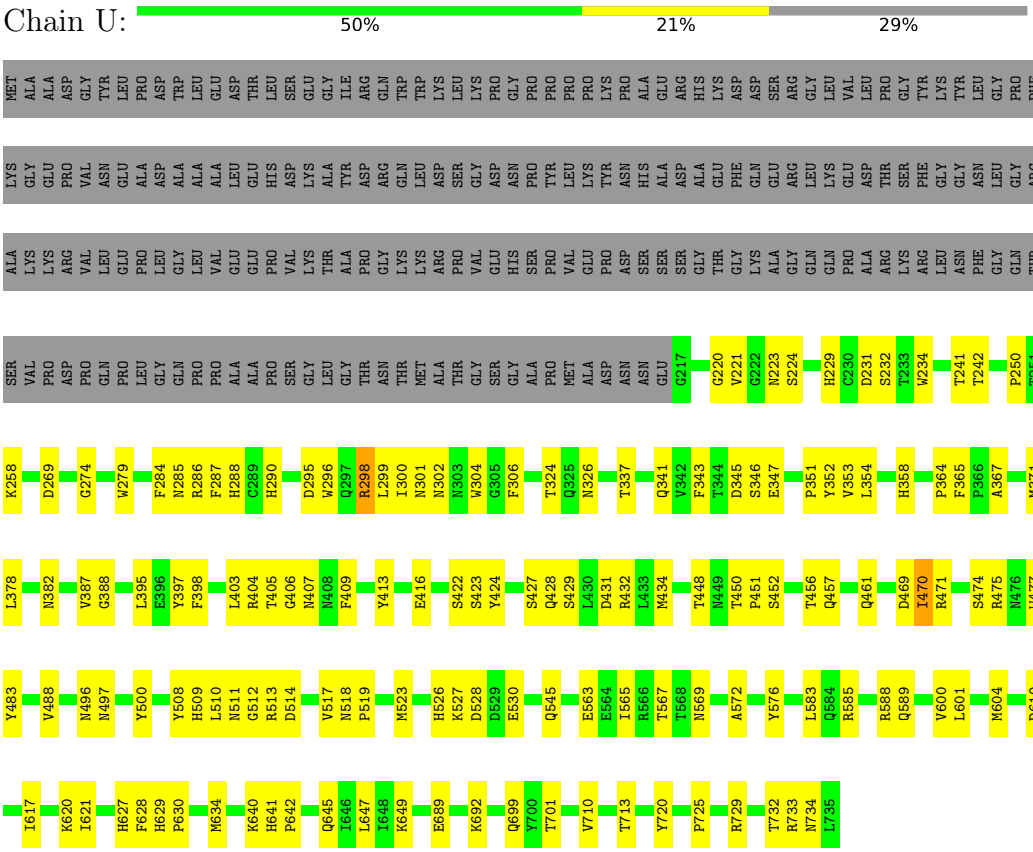
Chain T:





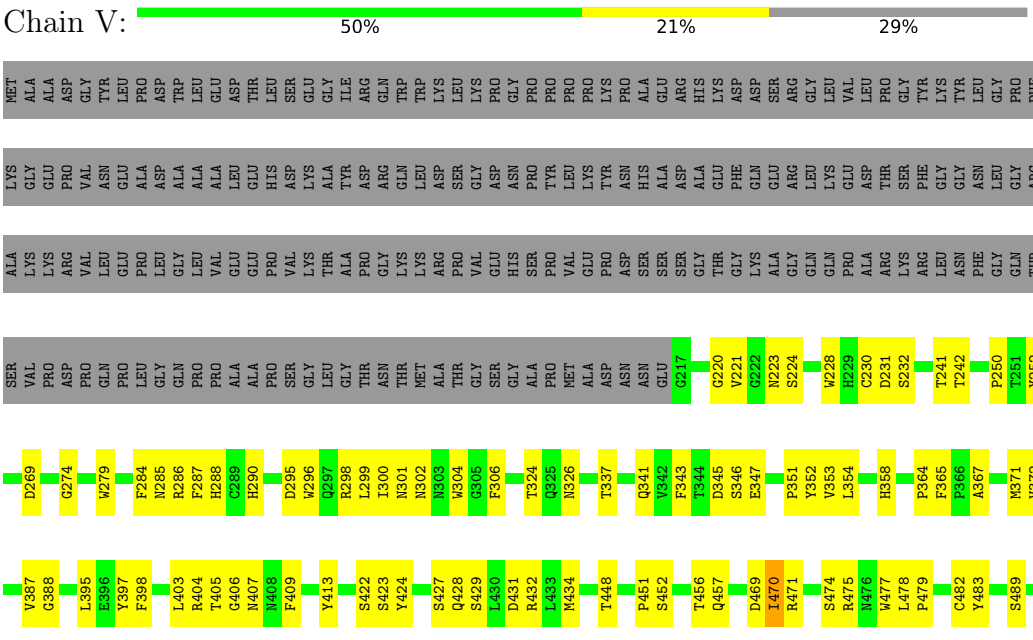
• Molecule 1: Capsid protein VP1

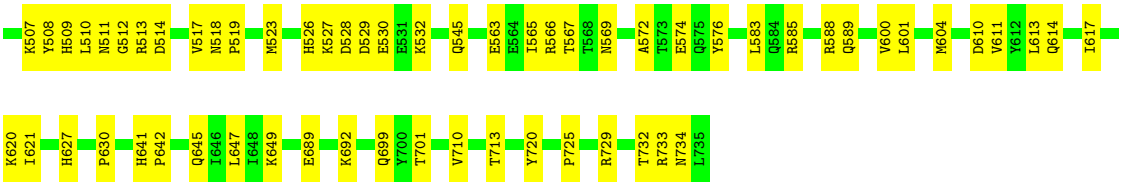
Chain U:



• Molecule 1: Capsid protein VP1

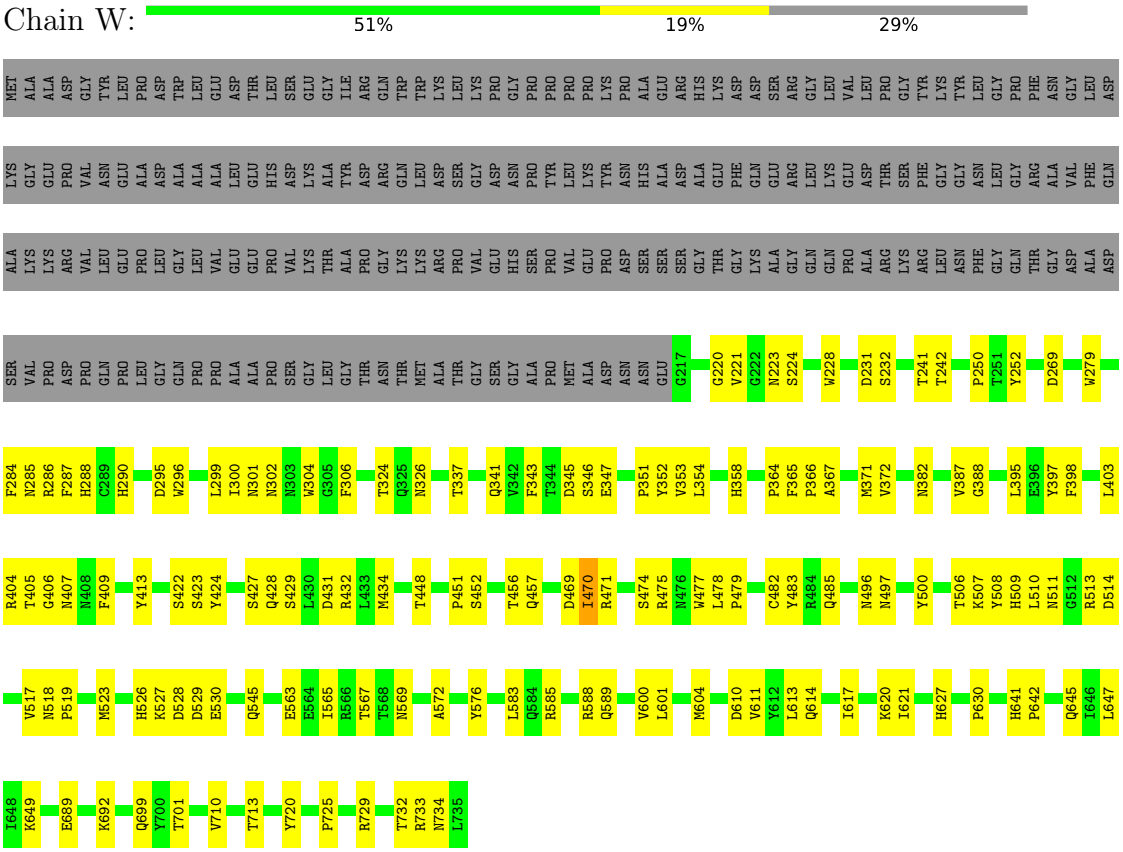
Chain V:





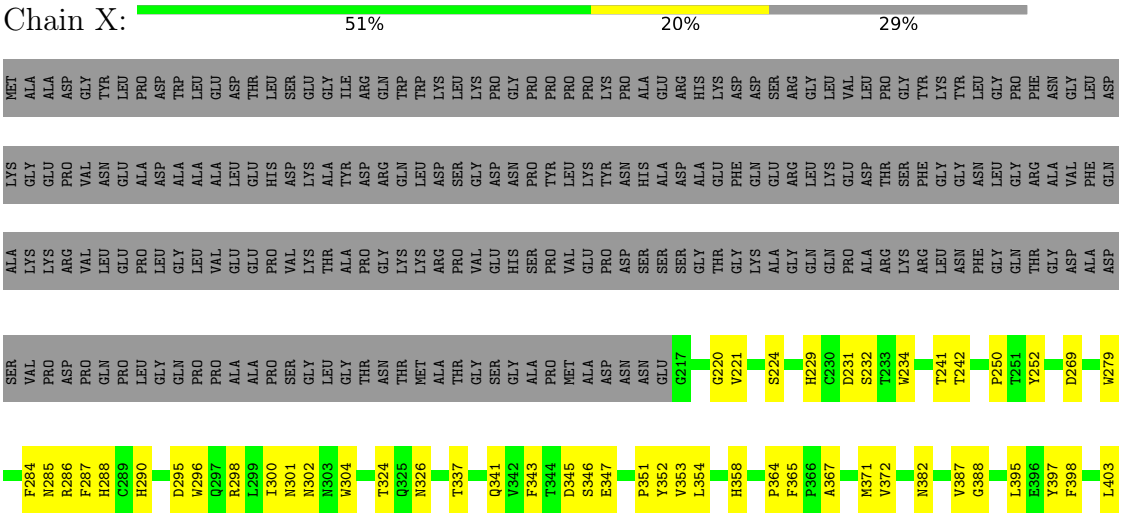
• Molecule 1: Capsid protein VP1

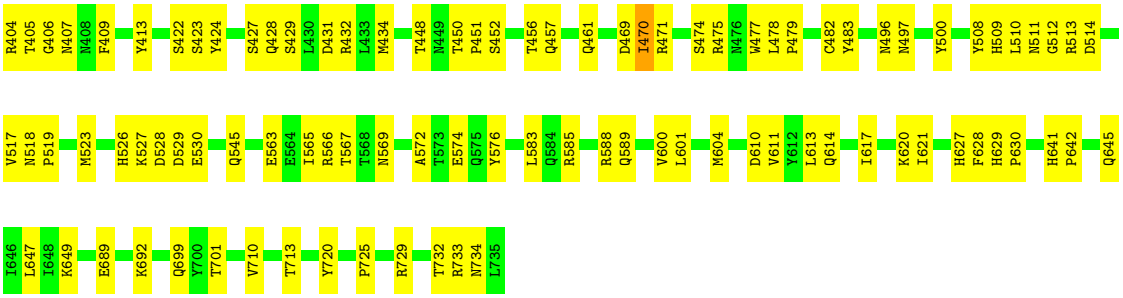
Chain W:



• Molecule 1: Capsid protein VP1

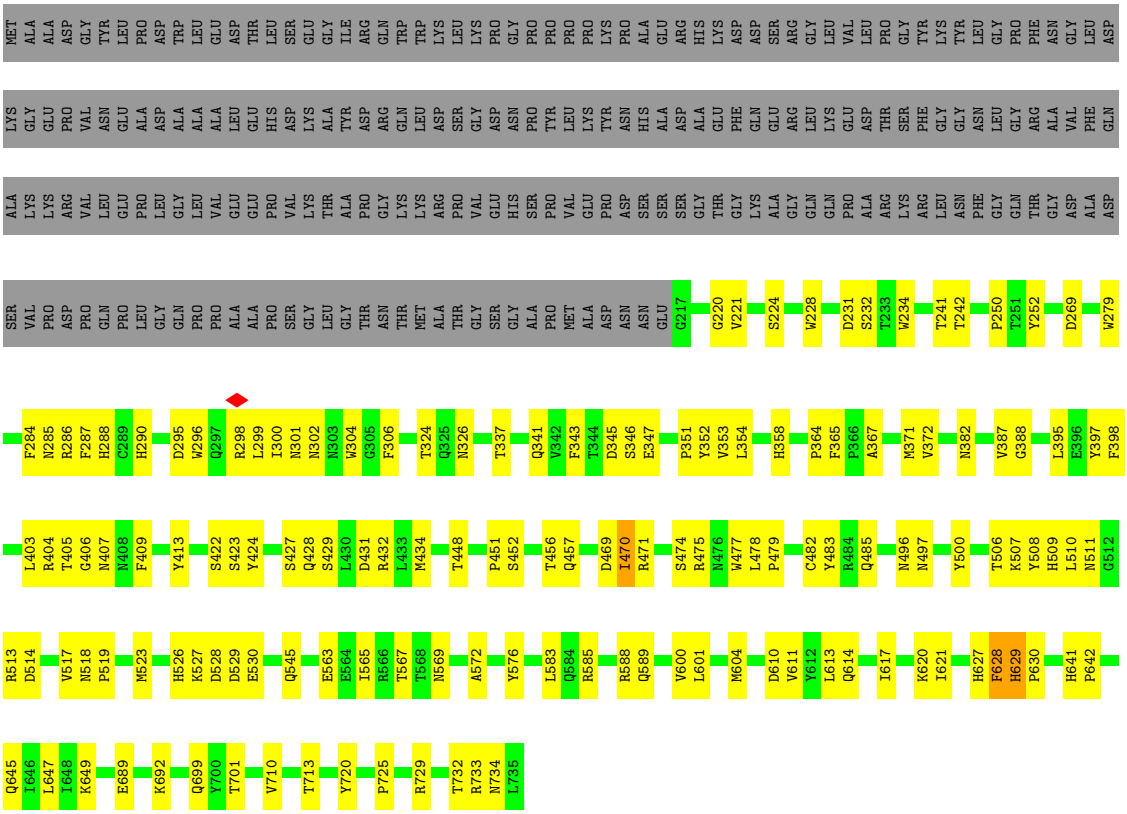
Chain X:





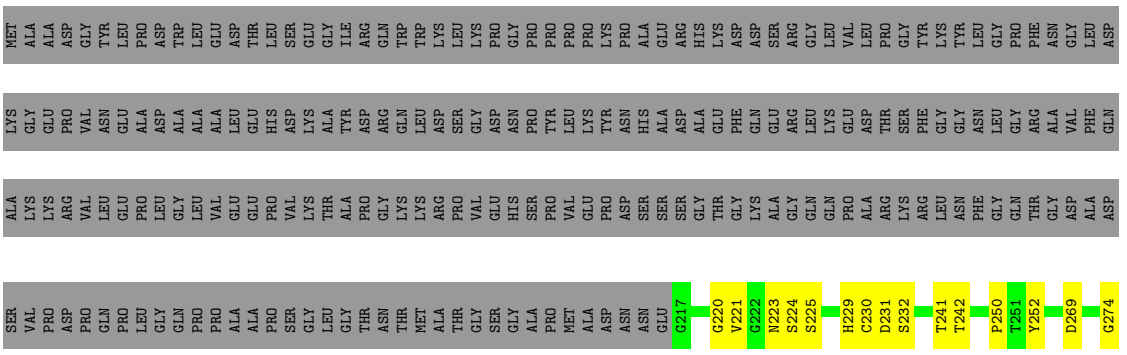
• Molecule 1: Capsid protein VP1

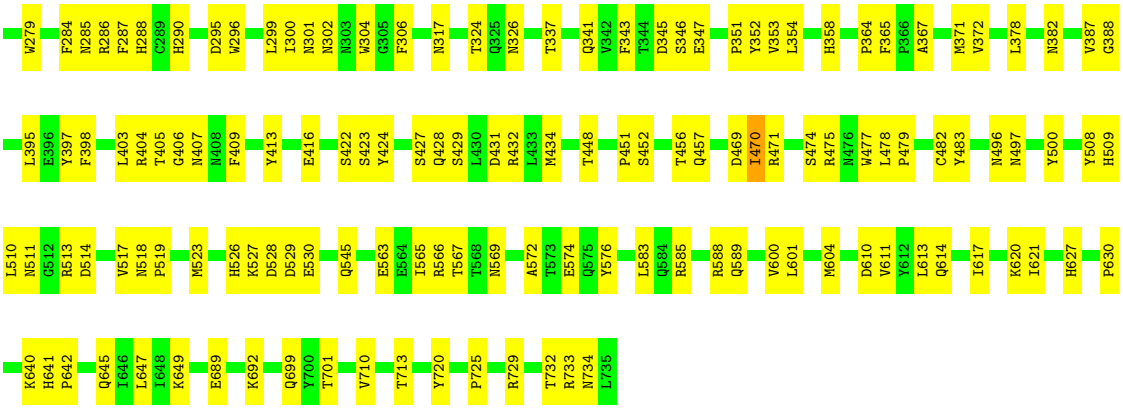
Chain Y:



• Molecule 1: Capsid protein VP1

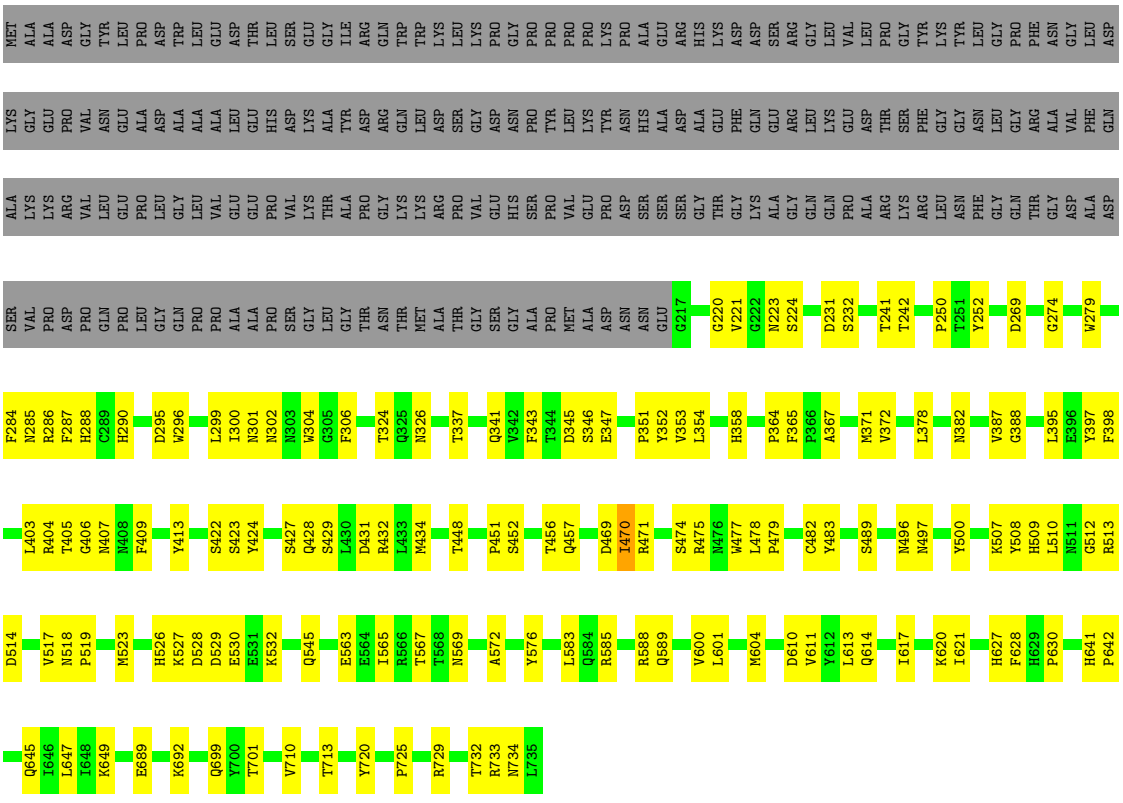
Chain Z:





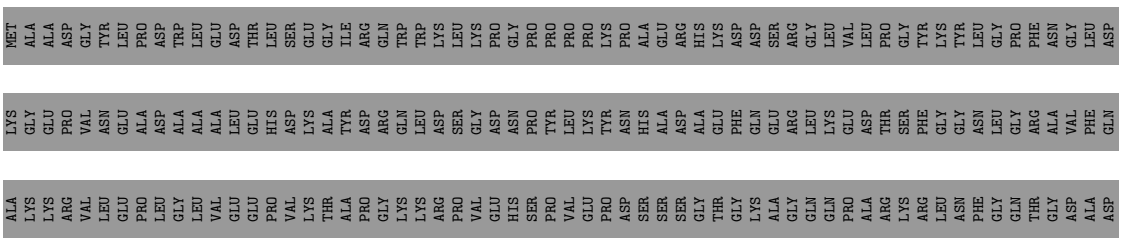
• Molecule 1: Capsid protein VP1

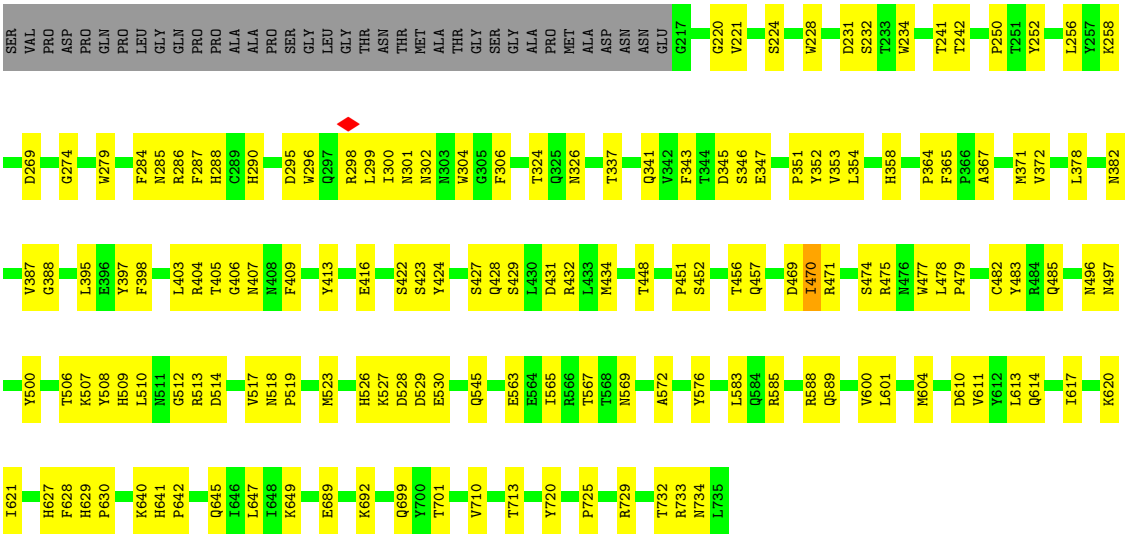
Chain a:



• Molecule 1: Capsid protein VP1

Chain b:





• Molecule 1: Capsid protein VP1

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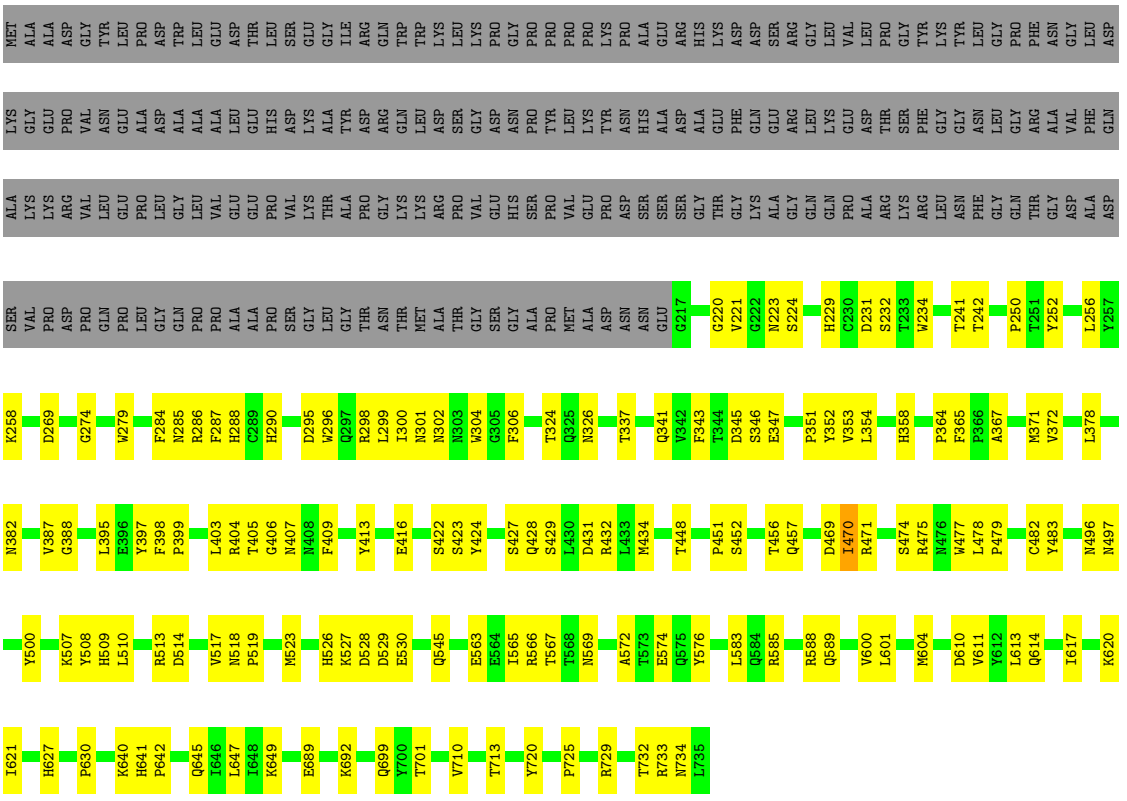
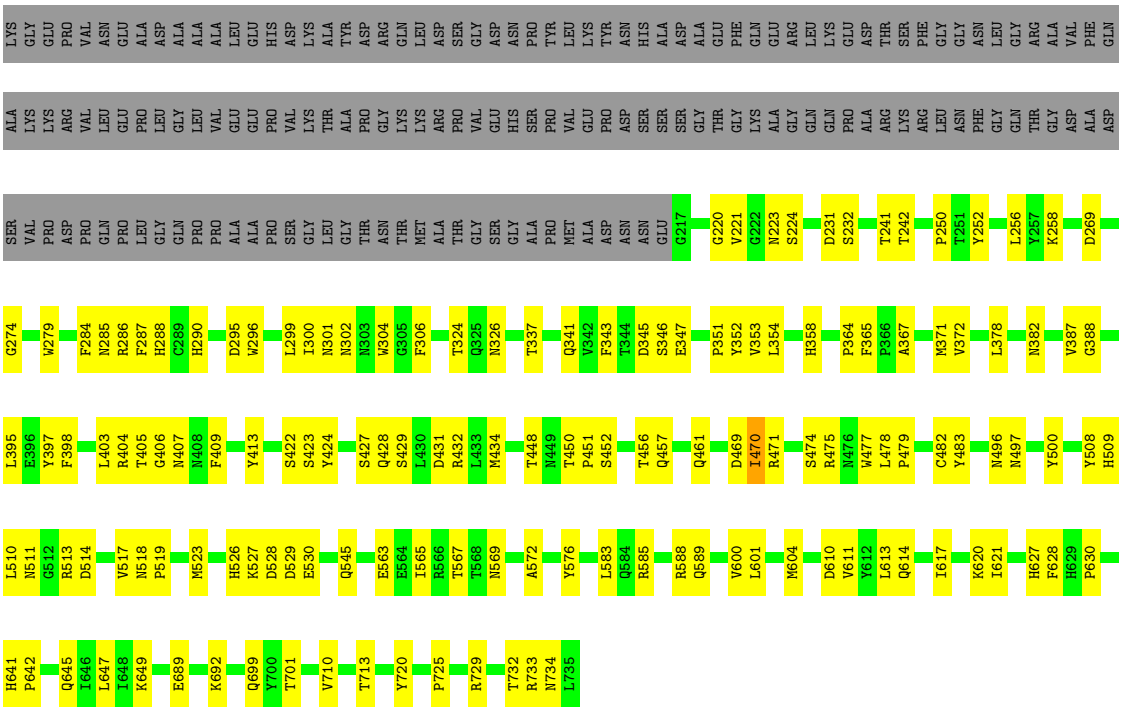


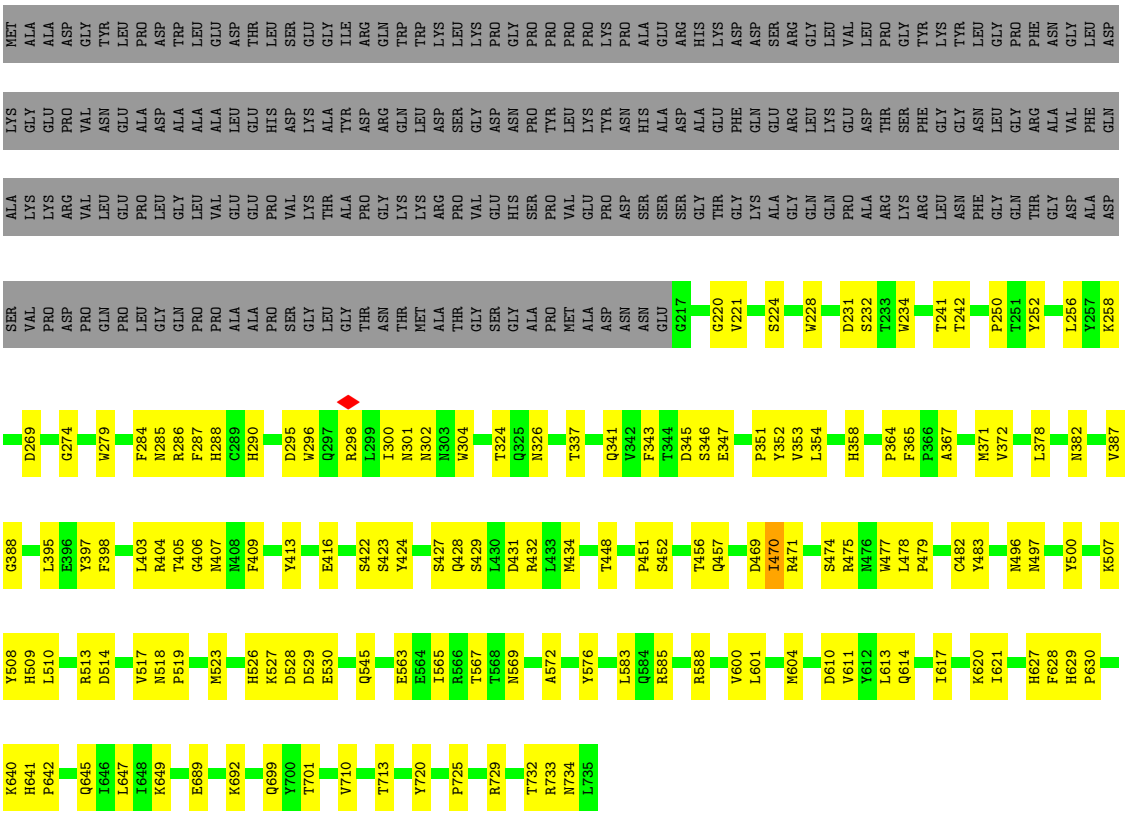
• Molecule 1: Capsid protein VP1

Chain d:



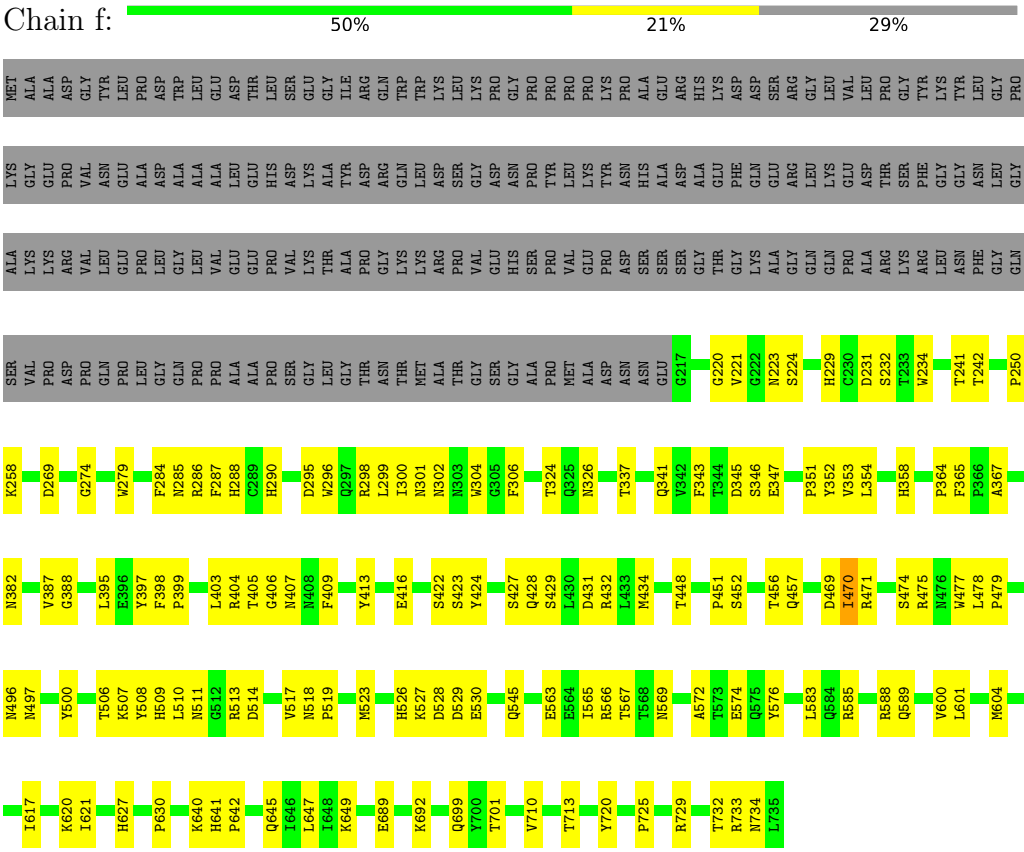
• Molecule 1: Capsid protein VP1

Chain e:



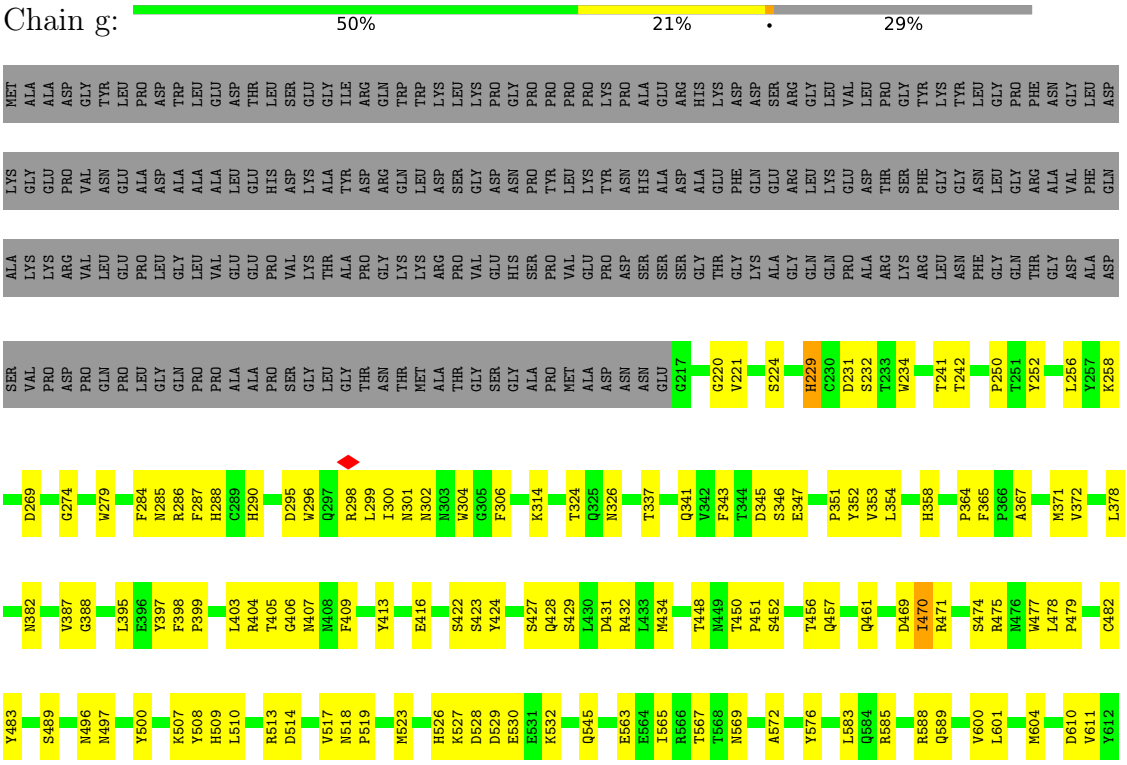
• Molecule 1: Capsid protein VP1

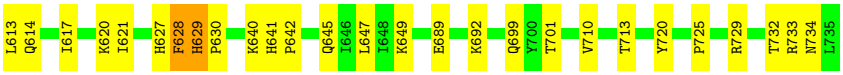
Chain f:



• Molecule 1: Capsid protein VP1

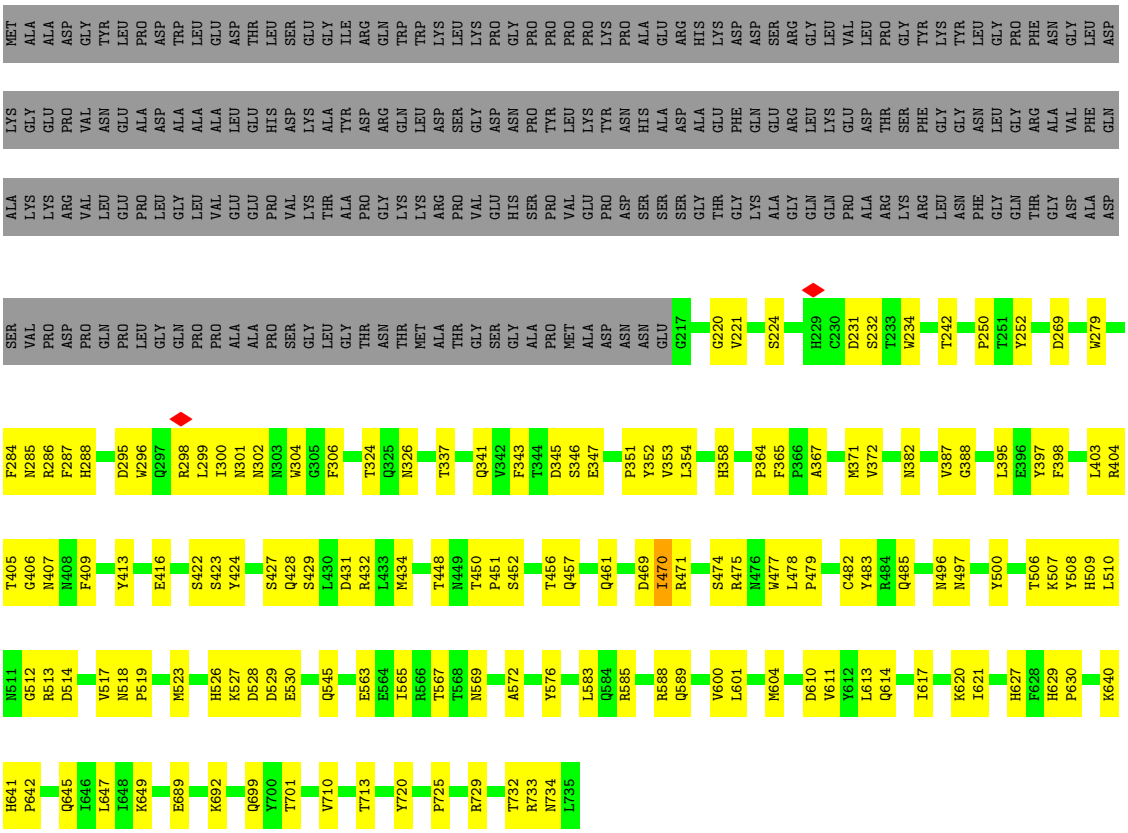
Chain g:





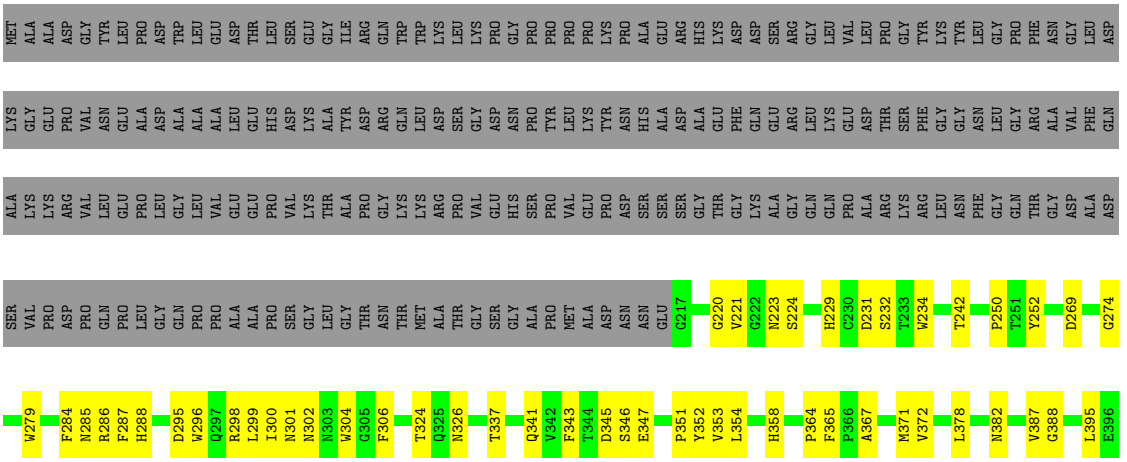
• Molecule 1: Capsid protein VP1

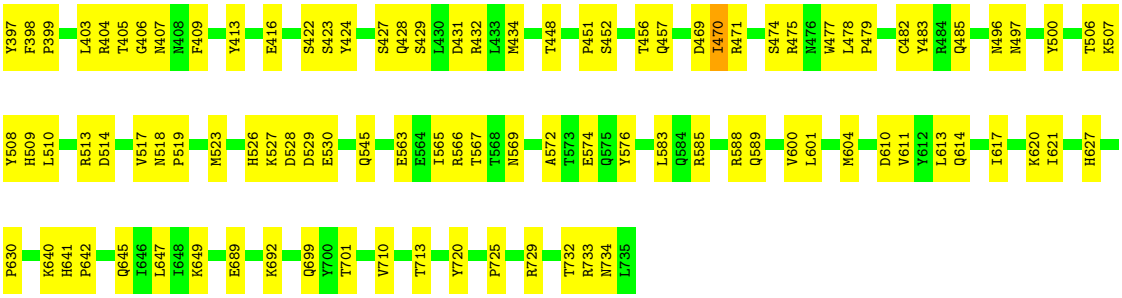
Chain h:



• Molecule 1: Capsid protein VP1

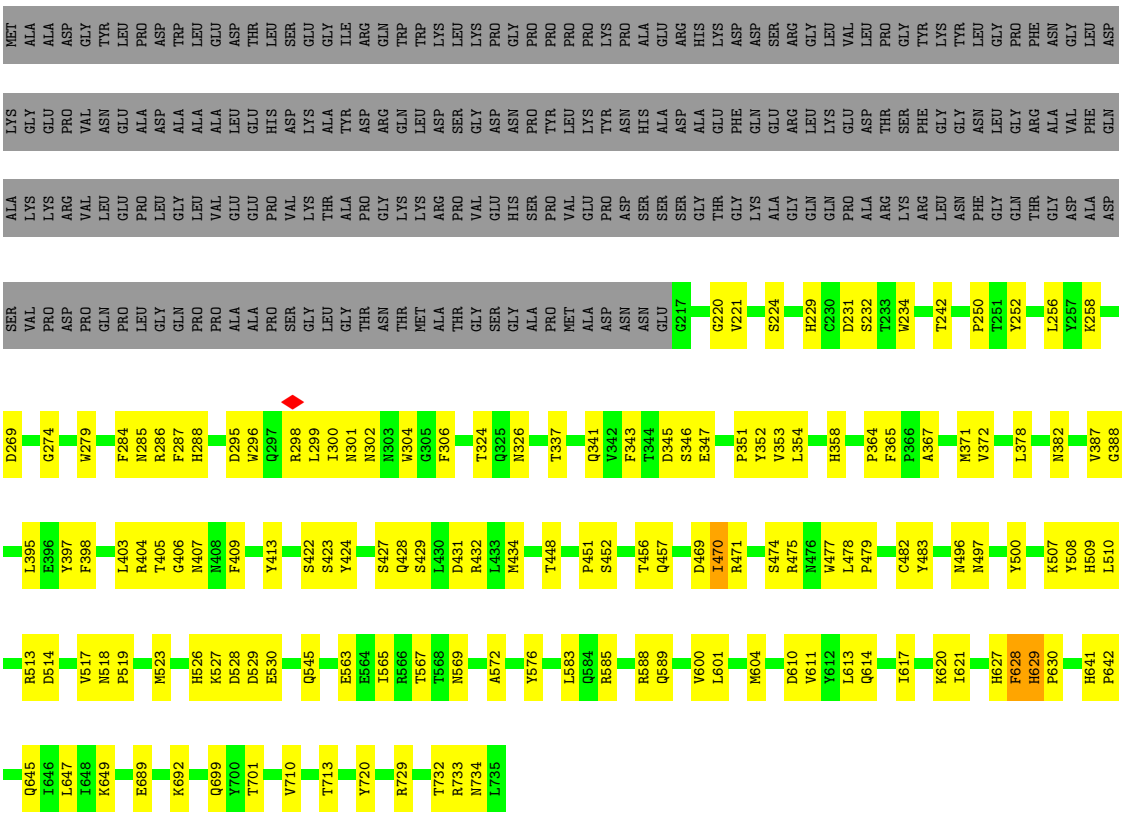
Chain i:





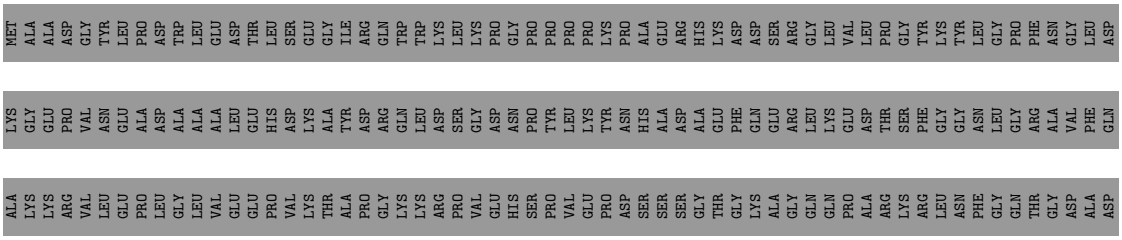
• Molecule 1: Capsid protein VP1

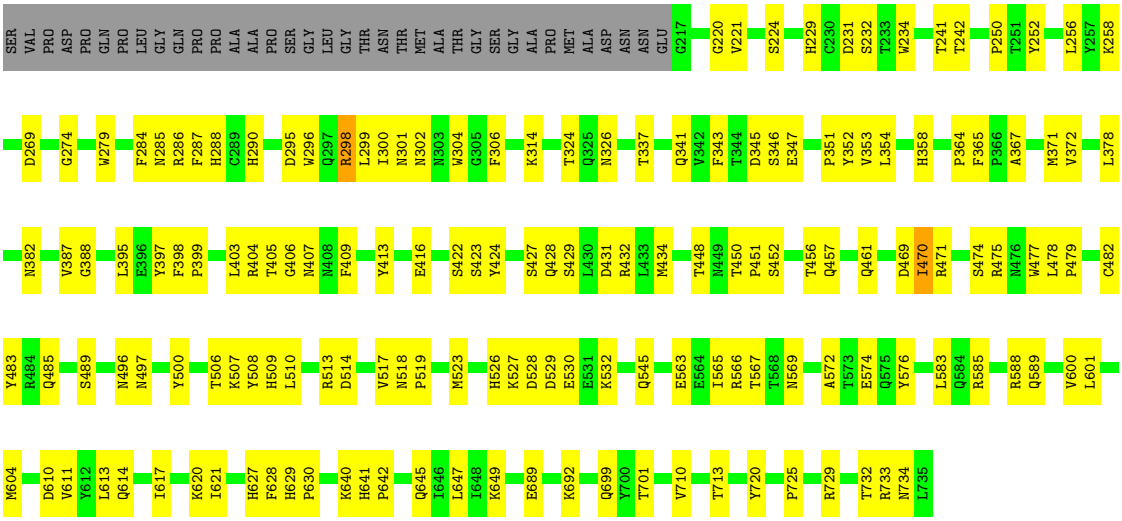
Chain j:



• Molecule 1: Capsid protein VP1

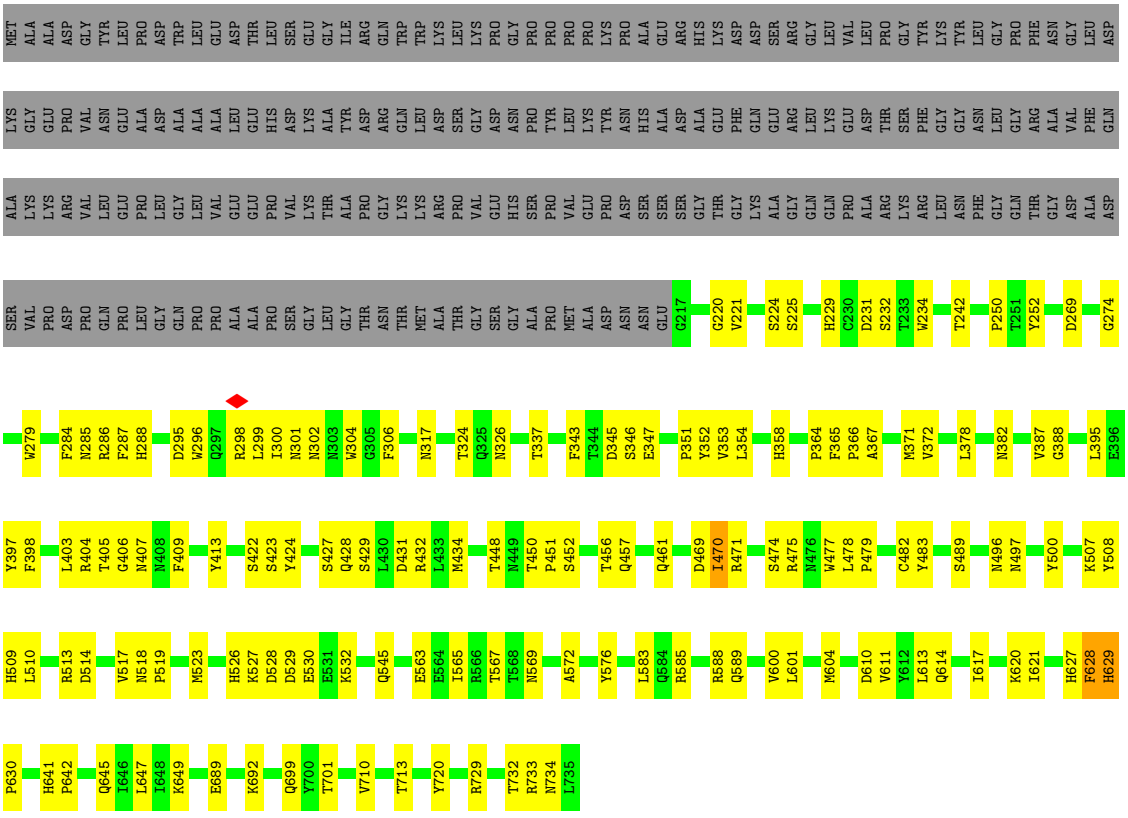
Chain k:





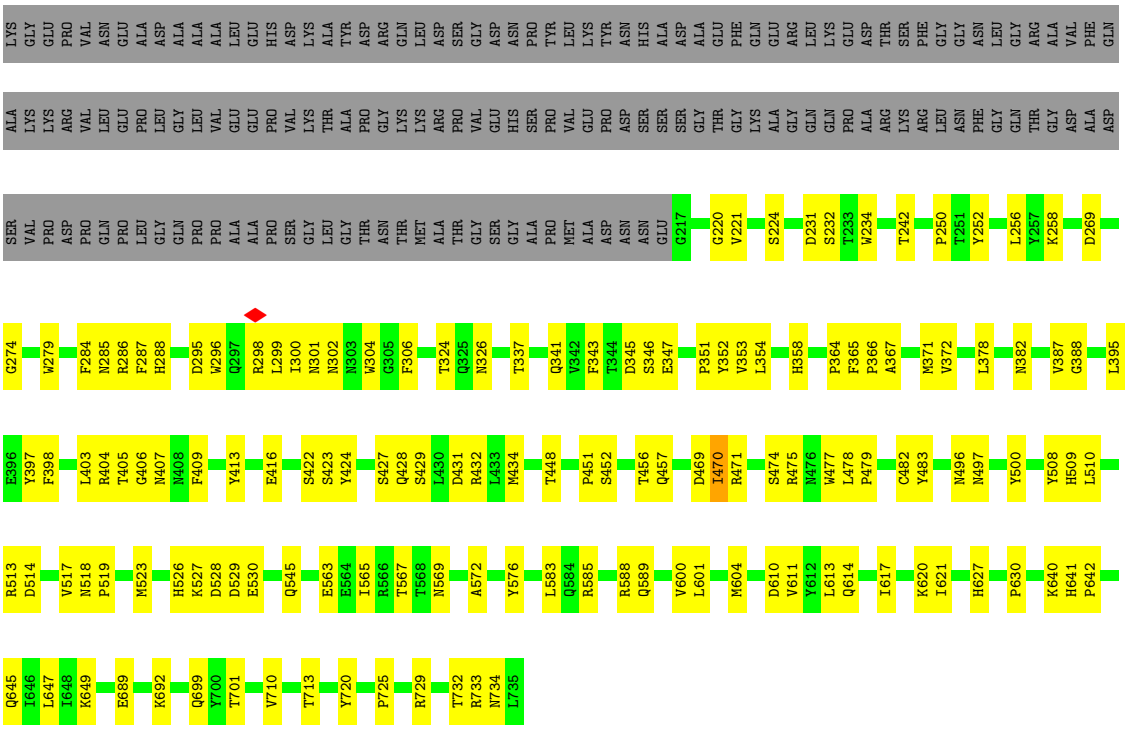
• Molecule 1: Capsid protein VP1

Chain l:



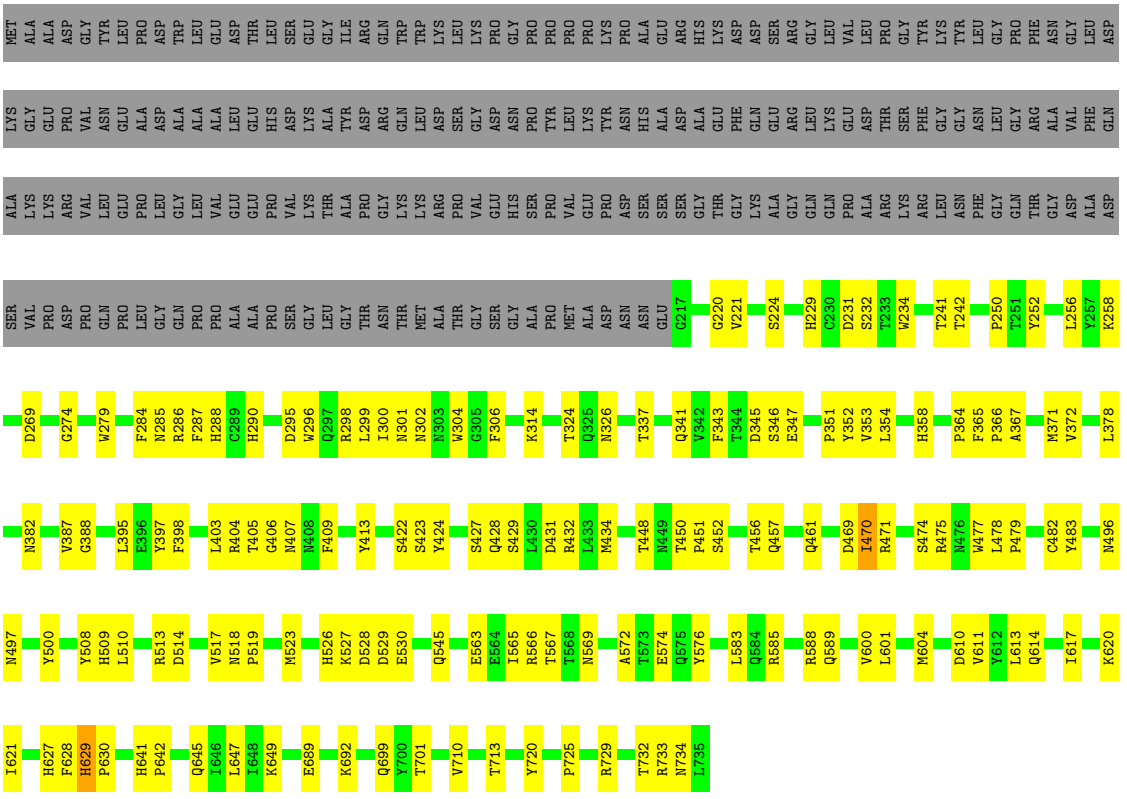
• Molecule 1: Capsid protein VP1

Chain m:



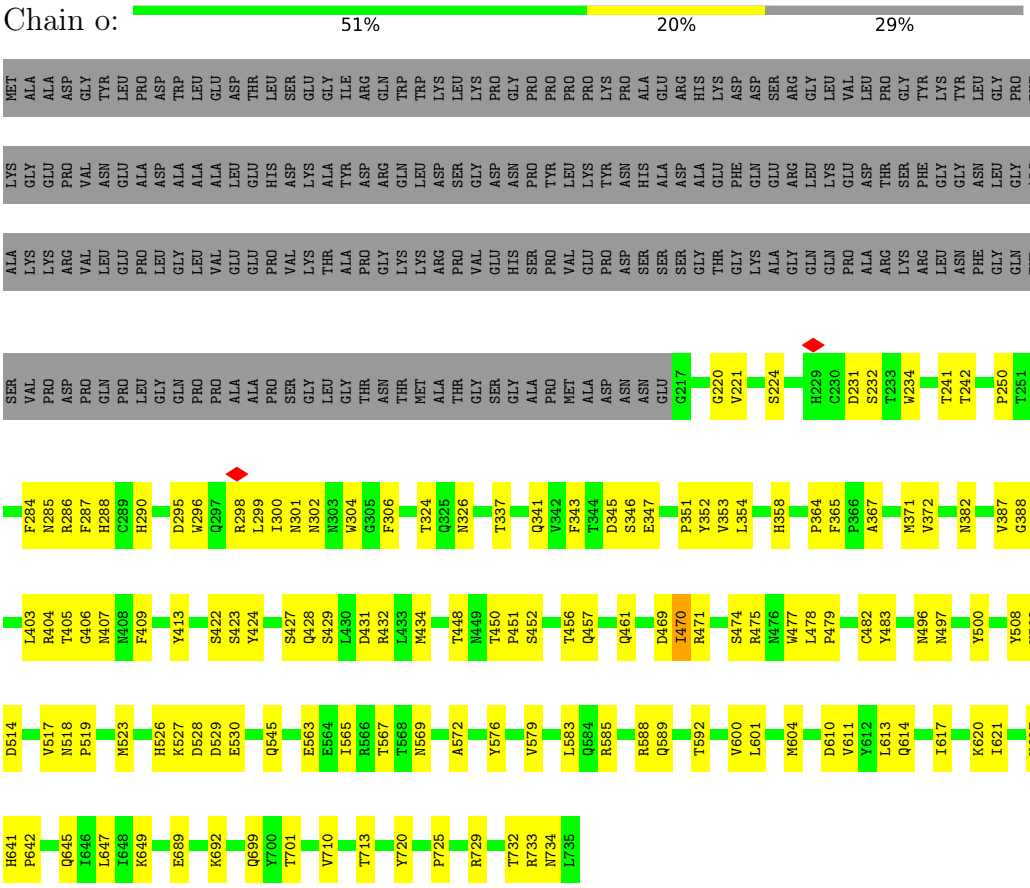
• Molecule 1: Capsid protein VP1

Chain n:



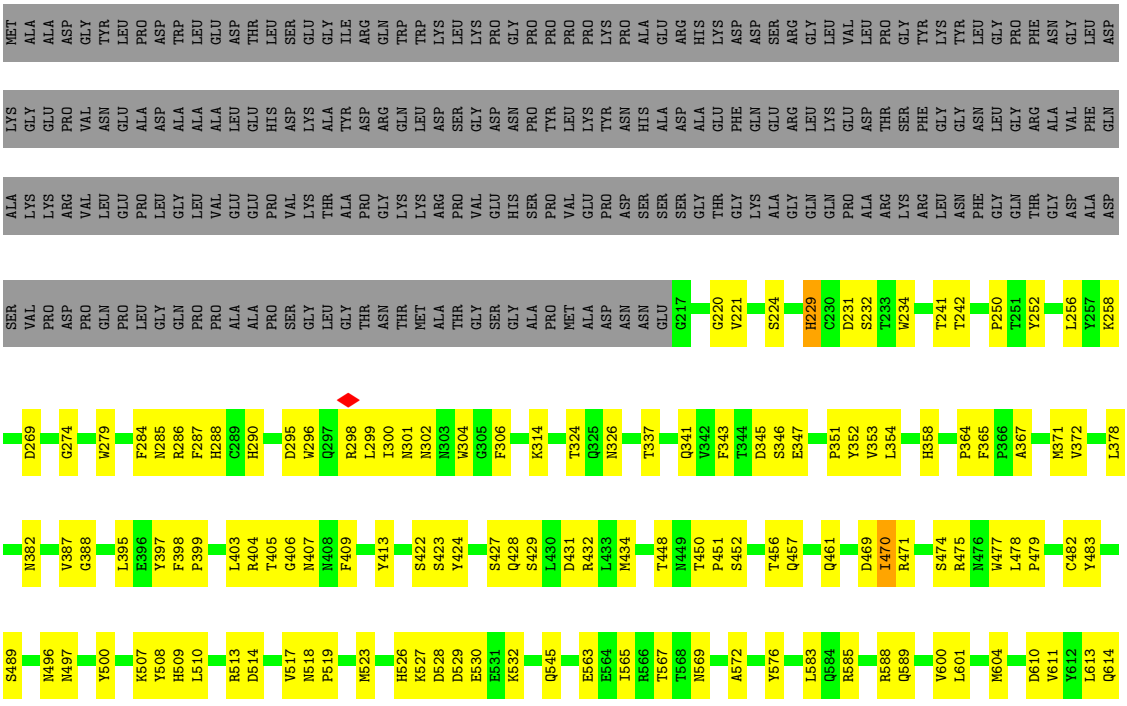
• Molecule 1: Capsid protein VP1

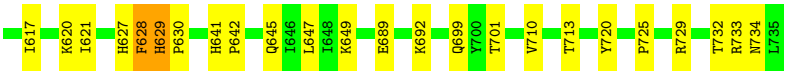
Chain o:



• Molecule 1: Capsid protein VP1

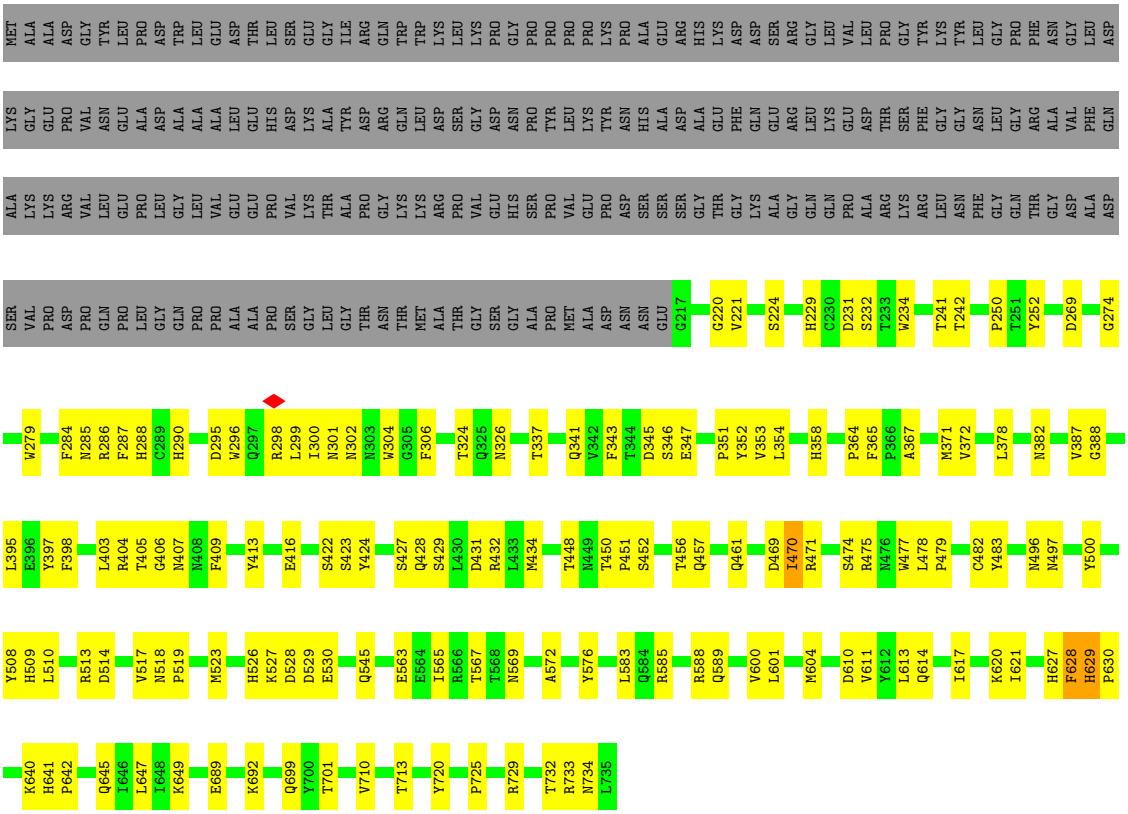
Chain p:





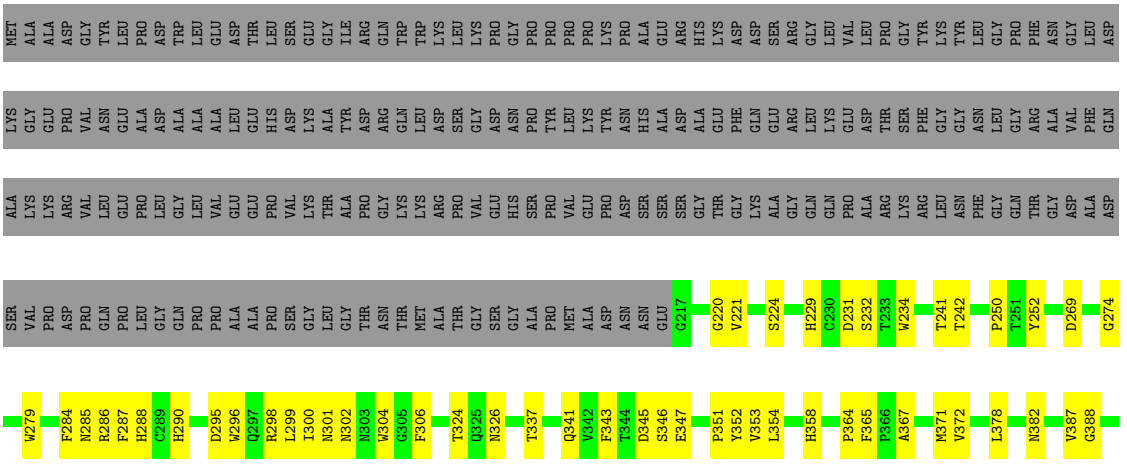
• Molecule 1: Capsid protein VP1

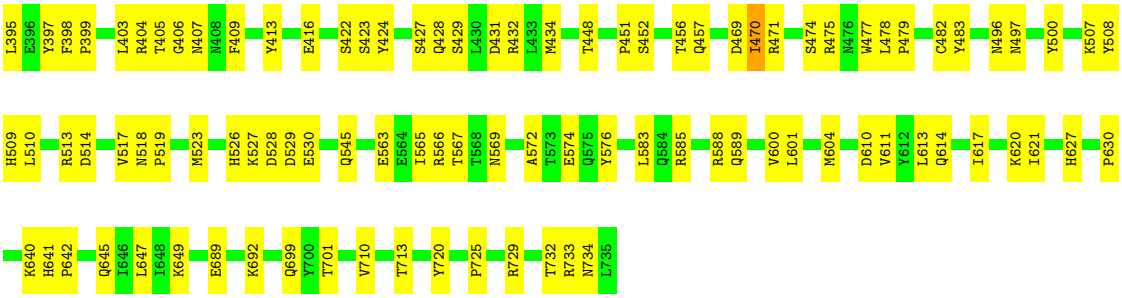
Chain q:



• Molecule 1: Capsid protein VP1

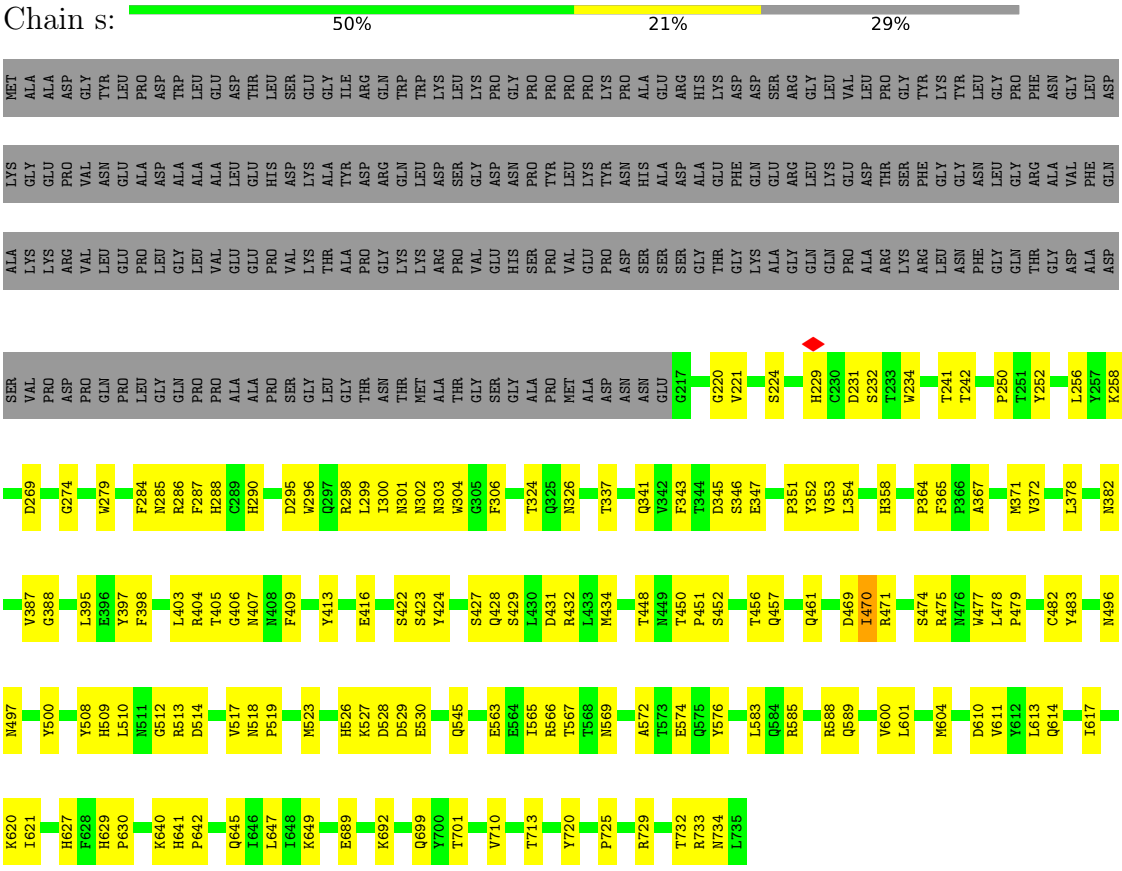
Chain r:





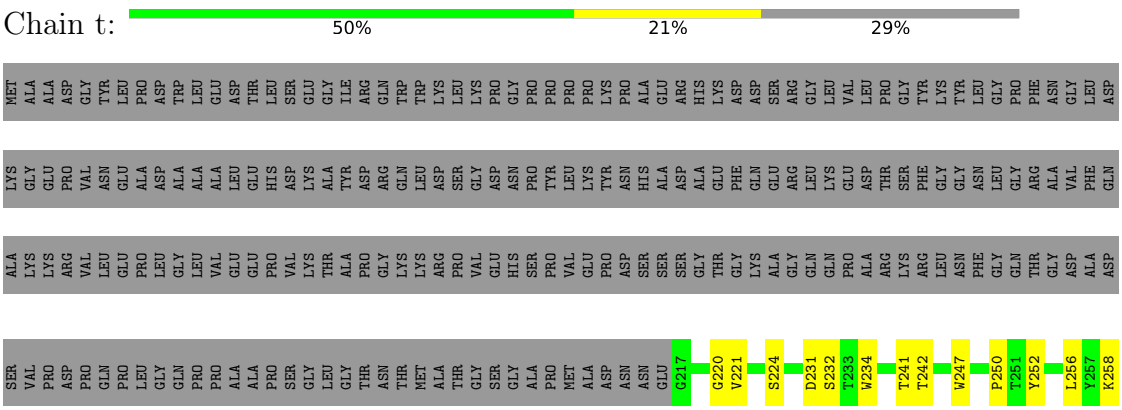
• Molecule 1: Capsid protein VP1

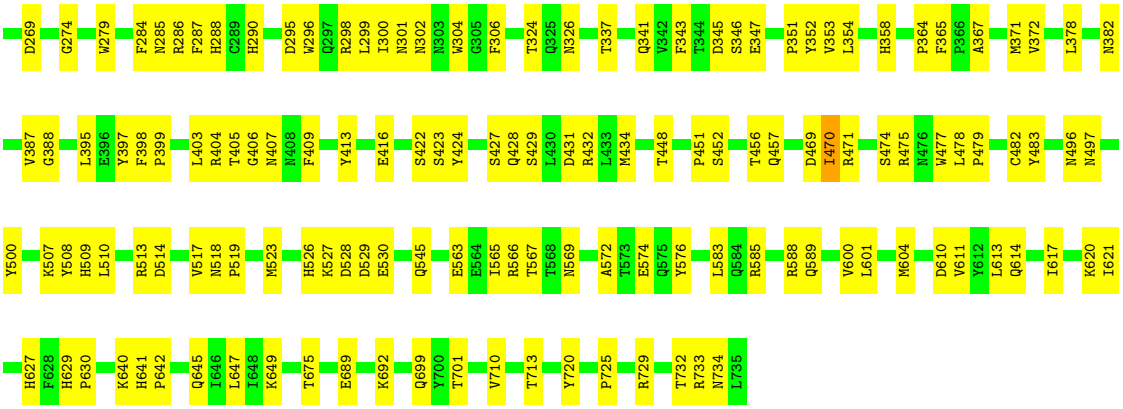
Chain s:



• Molecule 1: Capsid protein VP1

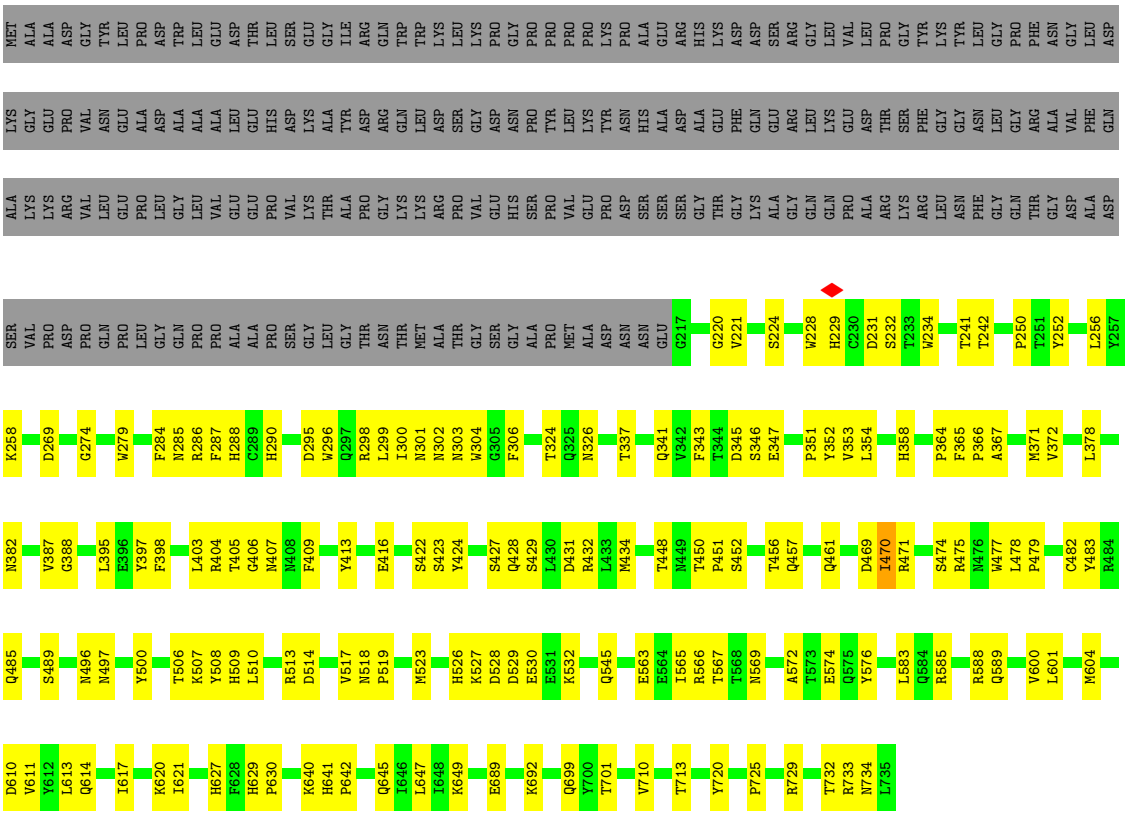
Chain t:





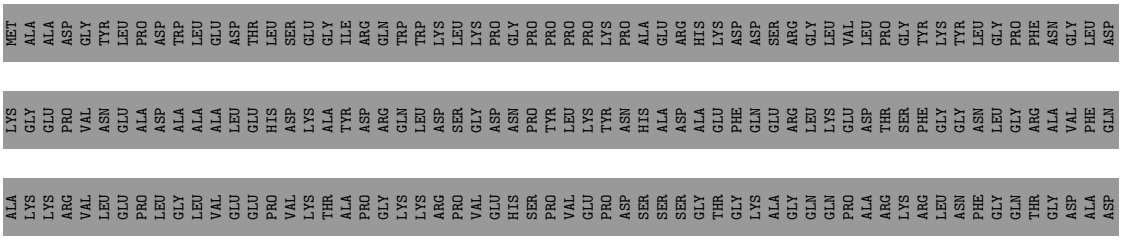
• Molecule 1: Capsid protein VP1

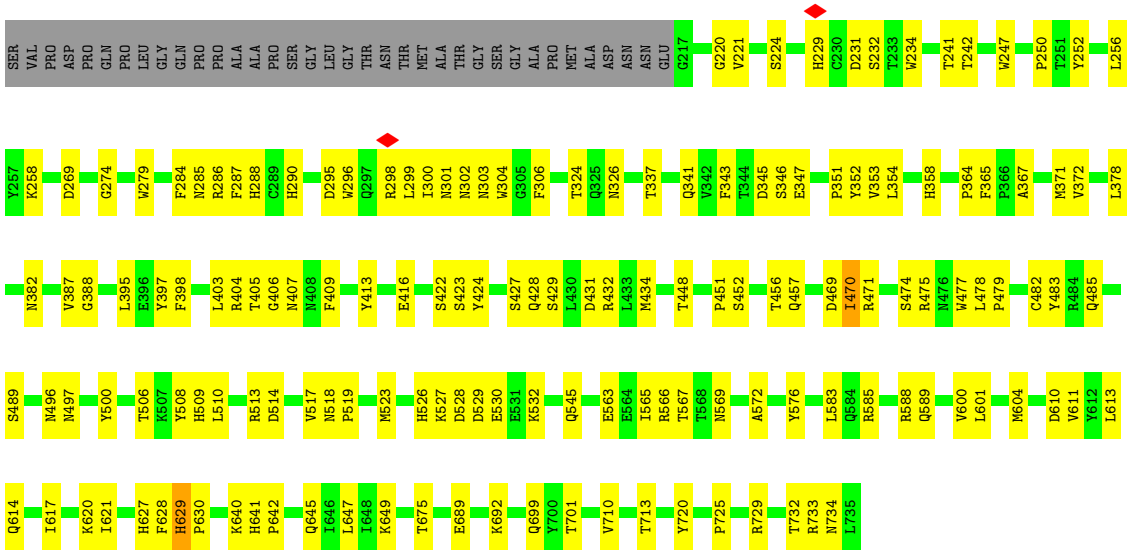
Chain u:



• Molecule 1: Capsid protein VP1

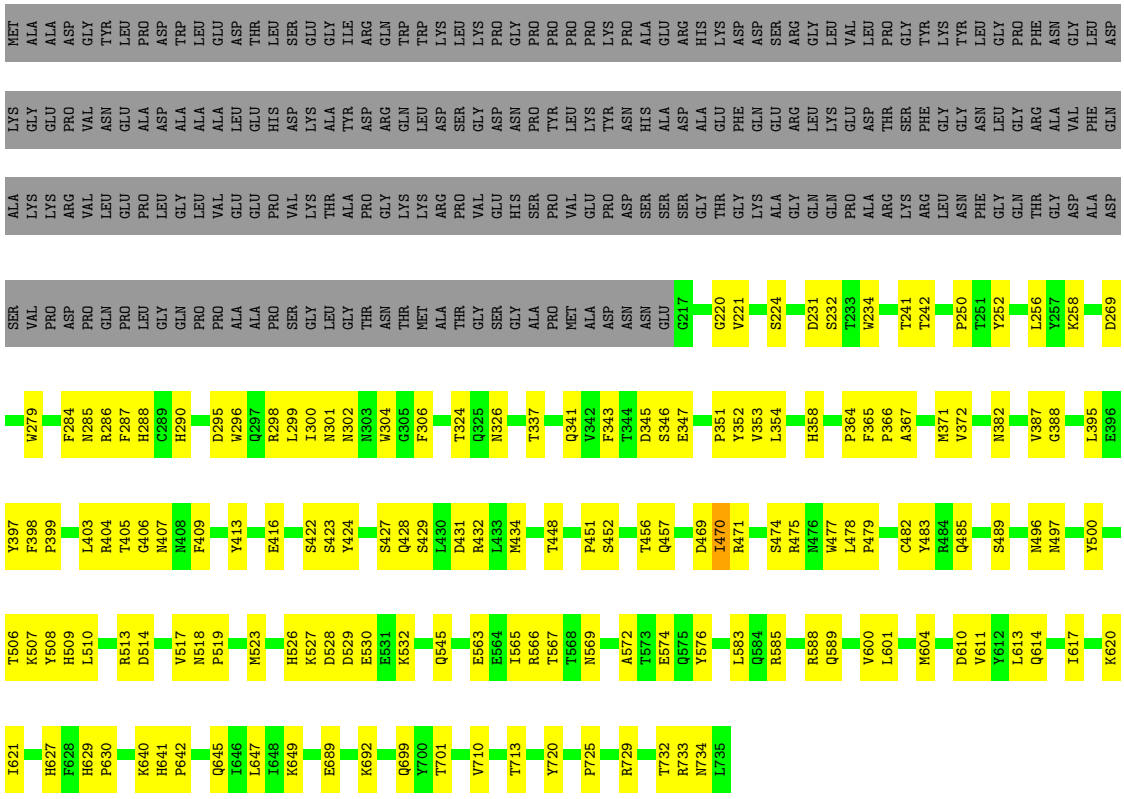
Chain v:





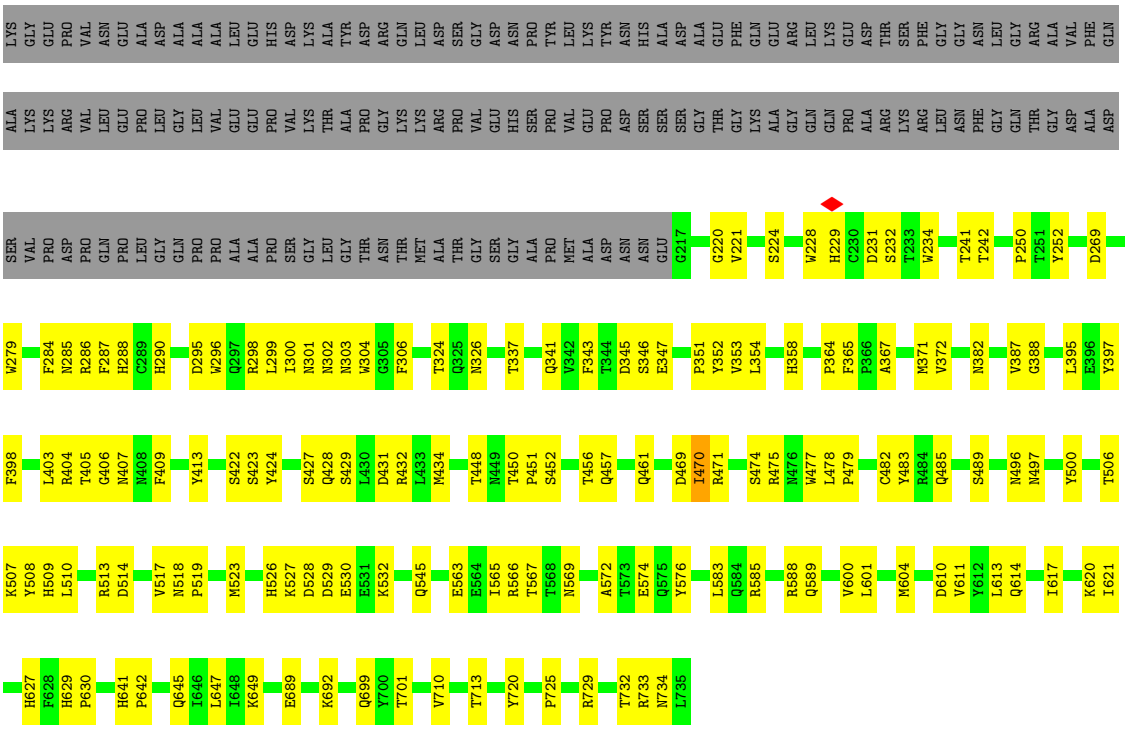
• Molecule 1: Capsid protein VP1

Chain w:



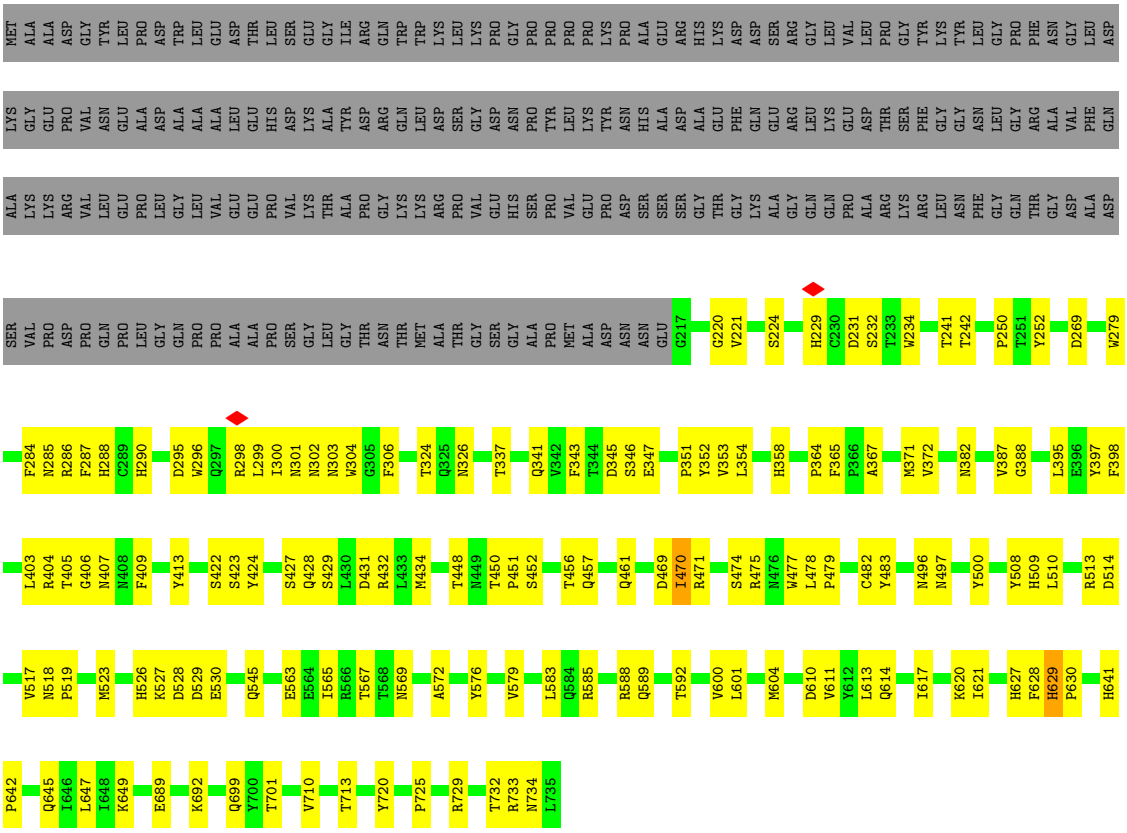
• Molecule 1: Capsid protein VP1

Chain x:



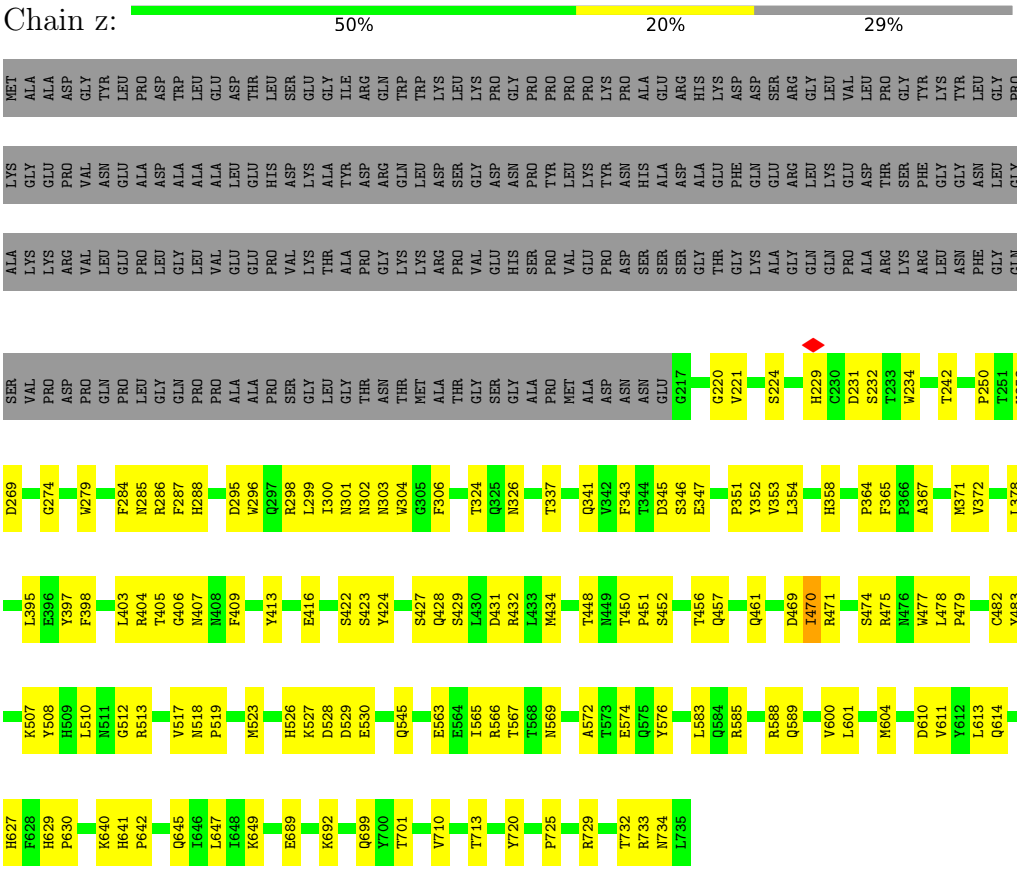
• Molecule 1: Capsid protein VP1

Chain y:



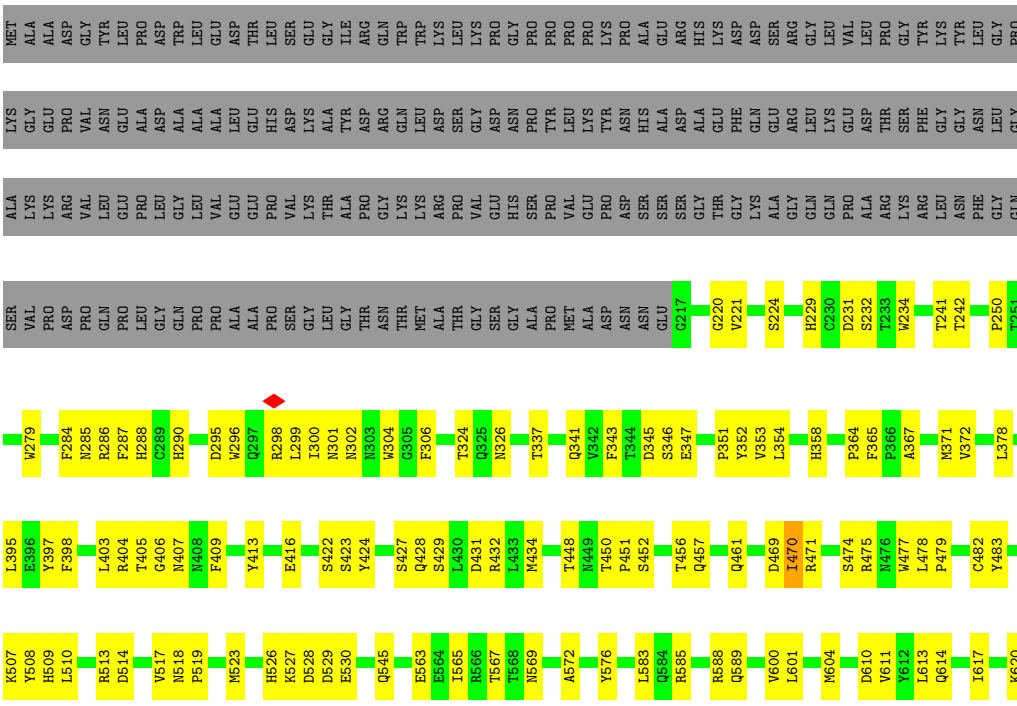
• Molecule 1: Capsid protein VP1

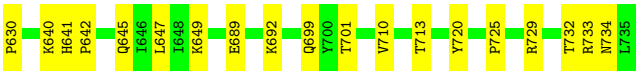
Chain z:



• Molecule 1: Capsid protein VP1

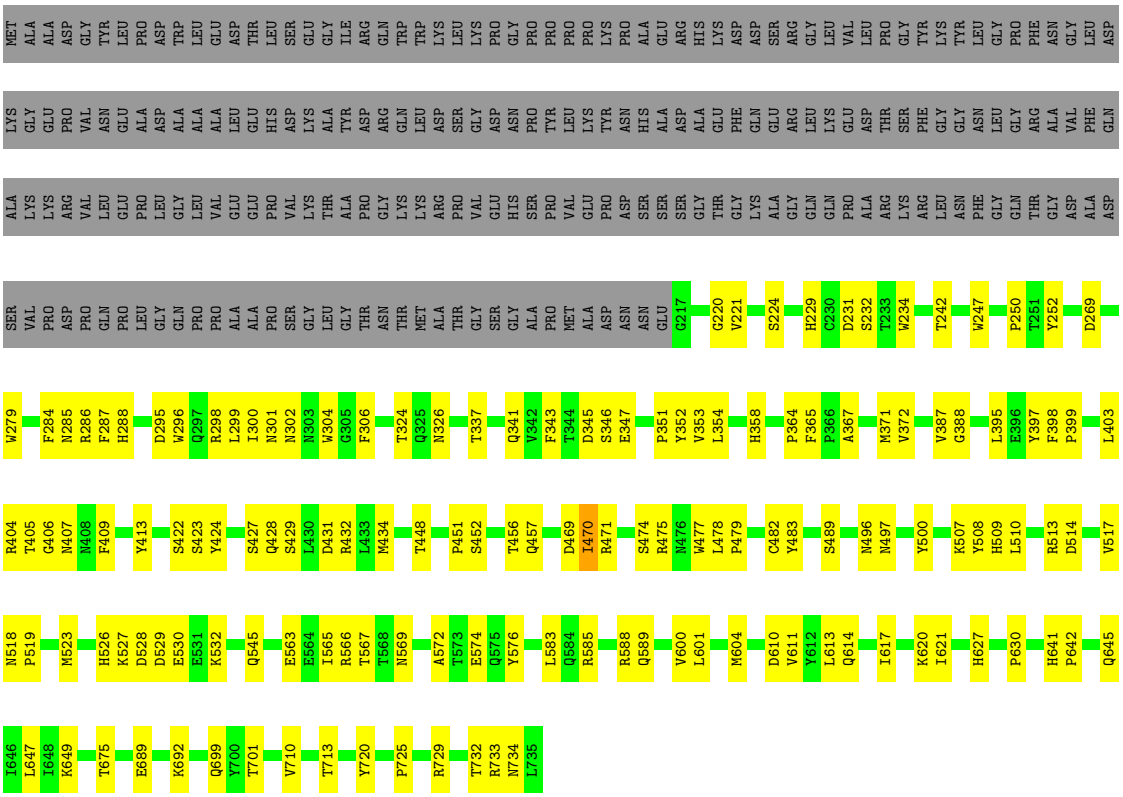
Chain 1:





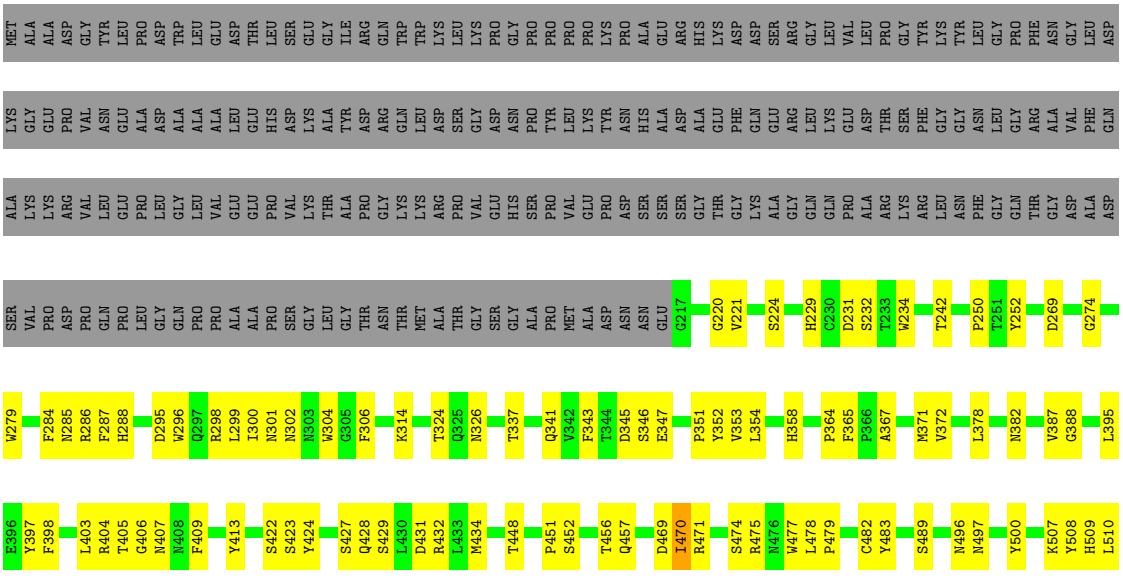
• Molecule 1: Capsid protein VP1

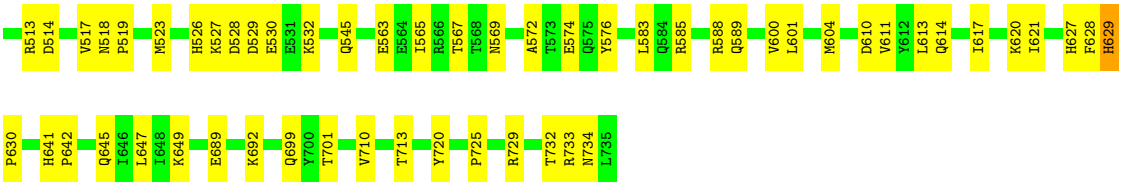
Chain 2:



• Molecule 1: Capsid protein VP1

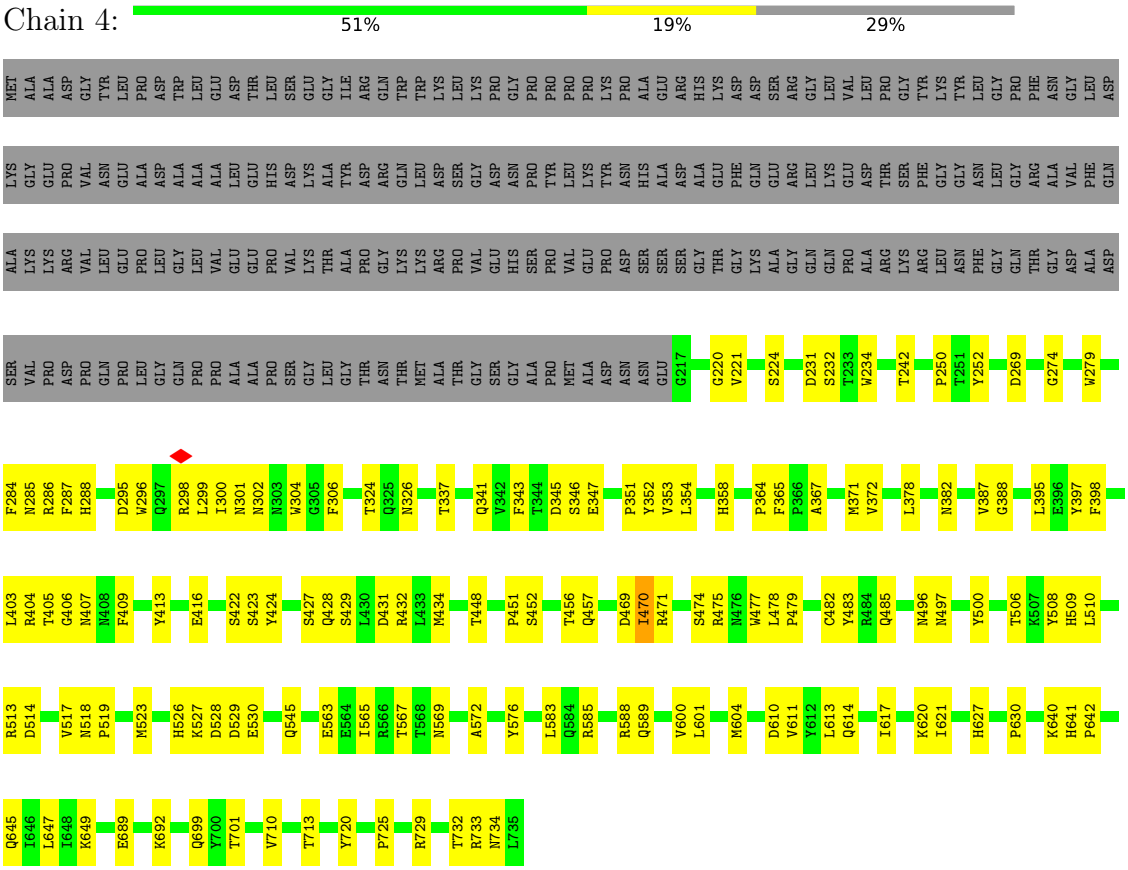
Chain 3:





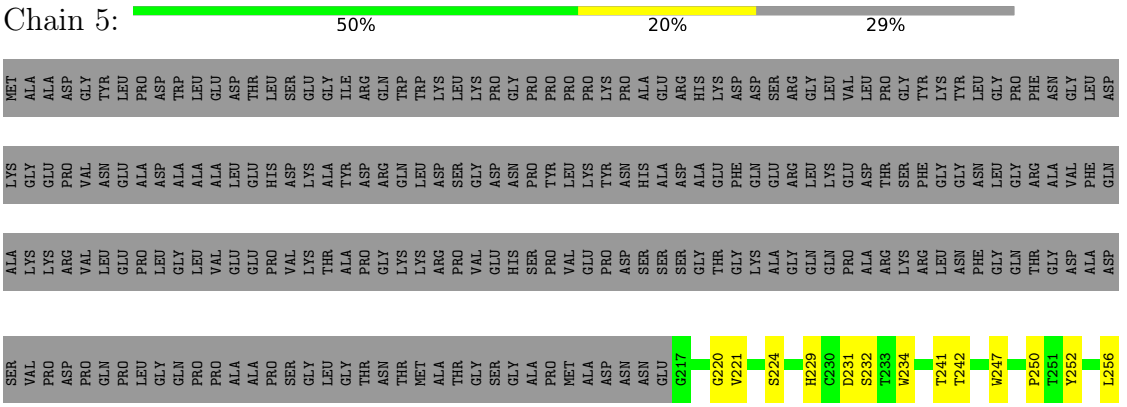
• Molecule 1: Capsid protein VP1

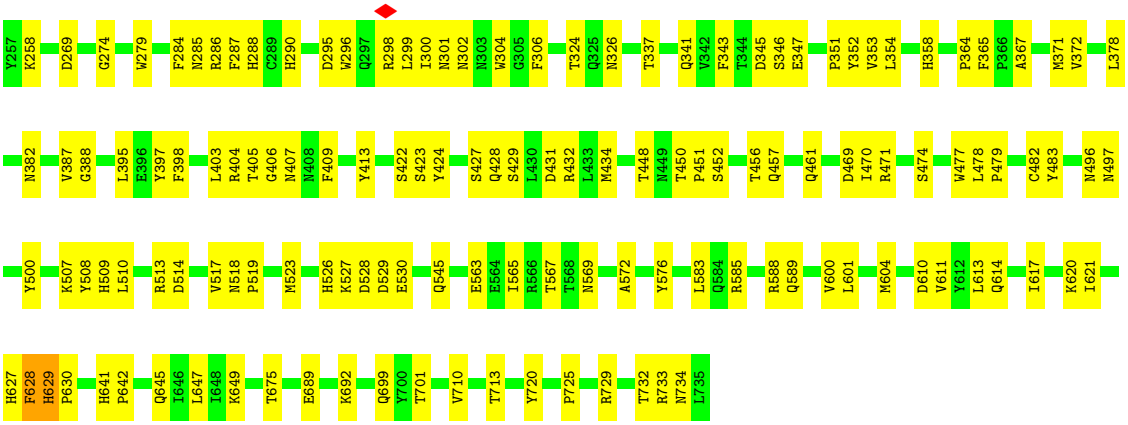
Chain 4:



• Molecule 1: Capsid protein VP1

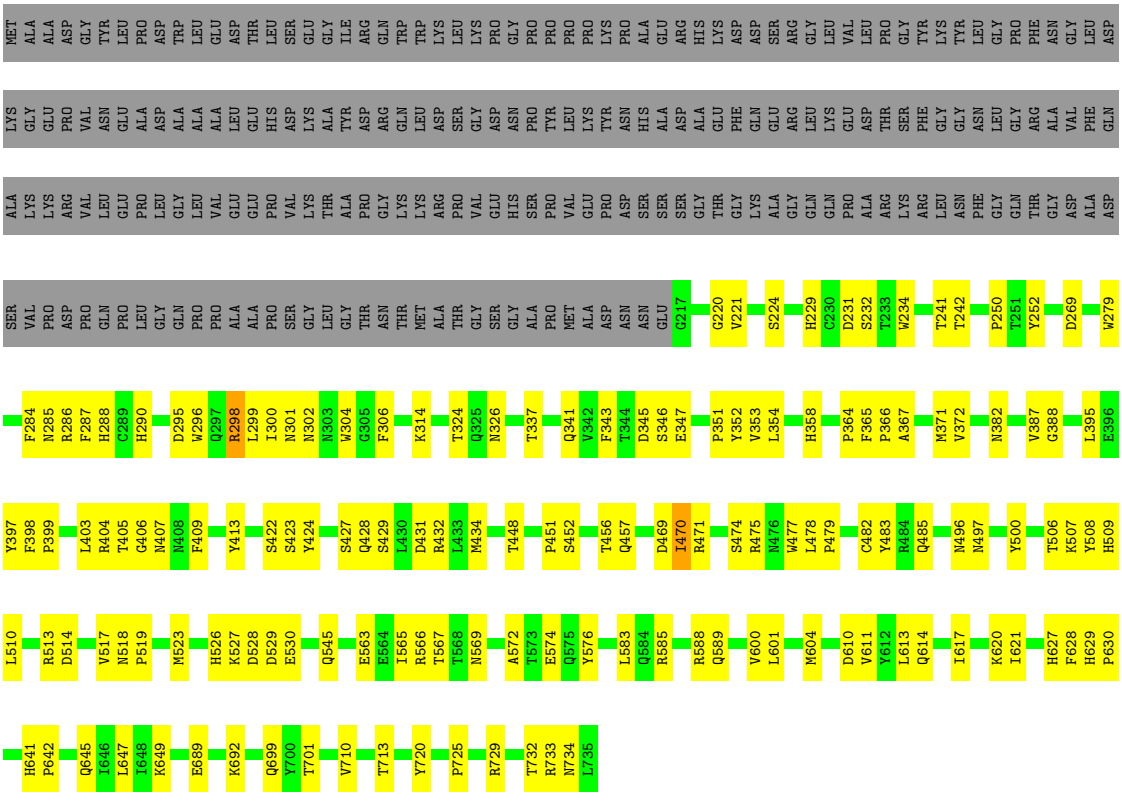
Chain 5:





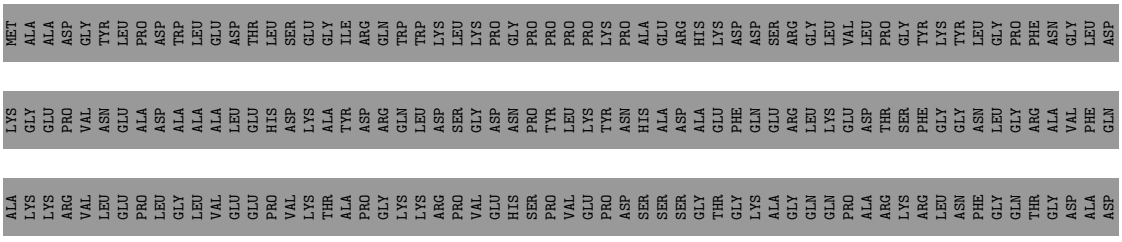
• Molecule 1: Capsid protein VP1

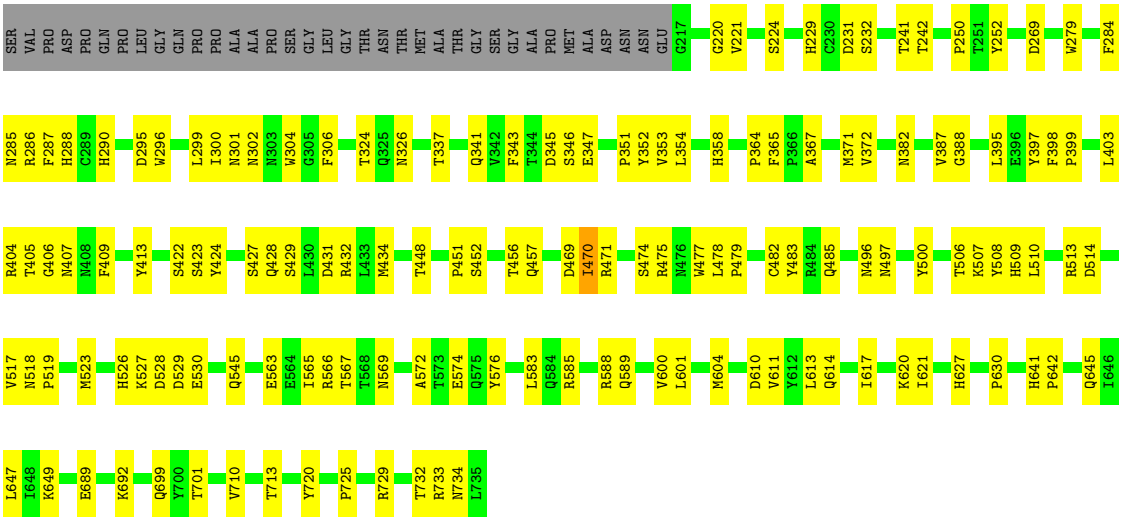
Chain 6:



• Molecule 1: Capsid protein VP1

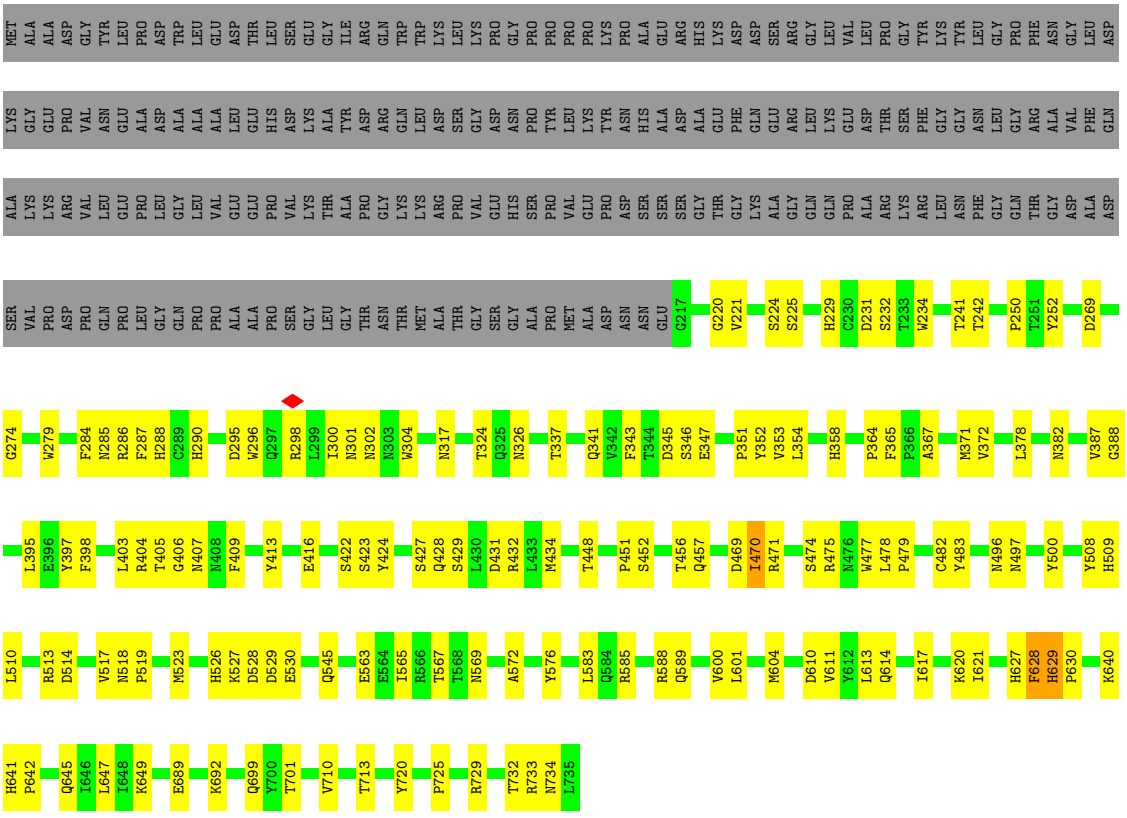
Chain 7:





• Molecule 1: Capsid protein VP1

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	6782	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 ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-64 (8k x 8k)	Depositor
Maximum map value	11.436	Depositor
Minimum map value	-7.125	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	351.68, 351.68, 351.68	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.099, 1.099, 1.099	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	0.44	5/4308 (0.1%)	0.63	6/5872 (0.1%)
1	2	0.40	0/4308	0.60	0/5872
1	3	0.41	0/4308	0.61	0/5872
1	4	0.40	0/4308	0.61	0/5872
1	5	0.43	2/4308 (0.0%)	0.64	6/5872 (0.1%)
1	6	0.42	0/4308	0.61	0/5872
1	7	0.41	0/4308	0.61	2/5872 (0.0%)
1	8	0.43	3/4308 (0.1%)	0.63	6/5872 (0.1%)
1	A	0.39	0/4308	0.62	6/5872 (0.1%)
1	B	0.39	0/4308	0.60	2/5872 (0.0%)
1	C	0.40	0/4308	0.61	2/5872 (0.0%)
1	D	0.40	0/4308	0.61	2/5872 (0.0%)
1	E	0.38	0/4308	0.63	6/5872 (0.1%)
1	F	0.39	0/4308	0.63	6/5872 (0.1%)
1	G	0.38	0/4308	0.63	6/5872 (0.1%)
1	H	0.38	0/4308	0.59	2/5872 (0.0%)
1	I	0.39	0/4308	0.63	6/5872 (0.1%)
1	J	0.39	0/4308	0.61	2/5872 (0.0%)
1	K	0.39	0/4308	0.58	0/5872
1	L	0.38	0/4308	0.61	4/5872 (0.1%)
1	M	0.38	0/4308	0.59	0/5872
1	N	0.42	1/4308 (0.0%)	0.63	6/5872 (0.1%)
1	O	0.40	0/4308	0.60	2/5872 (0.0%)
1	P	0.38	0/4308	0.59	2/5872 (0.0%)
1	Q	0.39	0/4308	0.63	6/5872 (0.1%)
1	R	0.39	0/4308	0.61	2/5872 (0.0%)
1	S	0.39	0/4308	0.61	2/5872 (0.0%)
1	T	0.39	0/4308	0.58	0/5872
1	U	0.38	0/4308	0.61	4/5872 (0.1%)
1	V	0.40	0/4308	0.61	2/5872 (0.0%)
1	W	0.40	0/4308	0.61	2/5872 (0.0%)
1	X	0.38	0/4308	0.59	0/5872
1	Y	0.42	1/4308 (0.0%)	0.63	6/5872 (0.1%)
1	Z	0.40	0/4308	0.60	2/5872 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.42	1/4308 (0.0%)	0.61	0/5872
1	b	0.41	0/4308	0.62	2/5872 (0.0%)
1	c	0.40	0/4308	0.60	4/5872 (0.1%)
1	d	0.42	1/4308 (0.0%)	0.61	0/5872
1	e	0.41	0/4308	0.62	2/5872 (0.0%)
1	f	0.40	0/4308	0.60	4/5872 (0.1%)
1	g	0.42	3/4308 (0.1%)	0.63	4/5872 (0.1%)
1	h	0.43	0/4308	0.62	4/5872 (0.1%)
1	i	0.41	0/4308	0.61	2/5872 (0.0%)
1	j	0.43	2/4308 (0.0%)	0.64	6/5872 (0.1%)
1	k	0.42	0/4308	0.61	0/5872
1	l	0.43	3/4308 (0.1%)	0.63	6/5872 (0.1%)
1	m	0.40	0/4308	0.61	0/5872
1	n	0.41	0/4308	0.61	0/5872
1	o	0.43	0/4308	0.62	4/5872 (0.1%)
1	p	0.42	3/4308 (0.1%)	0.63	4/5872 (0.1%)
1	q	0.44	5/4308 (0.1%)	0.63	6/5872 (0.1%)
1	r	0.39	0/4308	0.60	0/5872
1	s	0.43	0/4308	0.62	6/5872 (0.1%)
1	t	0.41	0/4308	0.62	4/5872 (0.1%)
1	u	0.43	5/4308 (0.1%)	0.62	6/5872 (0.1%)
1	v	0.43	2/4308 (0.0%)	0.64	8/5872 (0.1%)
1	w	0.41	0/4308	0.62	4/5872 (0.1%)
1	x	0.43	5/4308 (0.1%)	0.62	6/5872 (0.1%)
1	y	0.43	2/4308 (0.0%)	0.64	8/5872 (0.1%)
1	z	0.43	0/4308	0.62	6/5872 (0.1%)
All	All	0.41	44/258480 (0.0%)	0.62	196/352320 (0.1%)

All (44) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	629[A]	HIS	N-CA	-6.25	1.37	1.46
1	g	629[B]	HIS	N-CA	-6.25	1.37	1.46
1	p	629[A]	HIS	N-CA	-6.25	1.37	1.46
1	p	629[B]	HIS	N-CA	-6.25	1.37	1.46
1	8	628	PHE	C-N	-6.23	1.20	1.33
1	l	628	PHE	C-N	-6.22	1.20	1.33
1	q	629[A]	HIS	C-N	-5.88	1.26	1.34
1	q	629[B]	HIS	C-N	-5.88	1.26	1.34
1	1	629[A]	HIS	C-N	-5.88	1.26	1.34
1	1	629[B]	HIS	C-N	-5.88	1.26	1.34
1	v	229[A]	HIS	CA-CB	5.77	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	229[B]	HIS	CA-CB	5.77	1.62	1.53
1	y	229[A]	HIS	CA-CB	5.77	1.62	1.53
1	y	229[B]	HIS	CA-CB	5.77	1.62	1.53
1	g	628	PHE	C-N	-5.68	1.21	1.33
1	p	628	PHE	C-N	-5.68	1.21	1.33
1	l	629[A]	HIS	N-CA	-5.65	1.38	1.46
1	l	629[B]	HIS	N-CA	-5.65	1.38	1.46
1	8	629[A]	HIS	N-CA	-5.65	1.38	1.46
1	8	629[B]	HIS	N-CA	-5.65	1.38	1.46
1	u	228	TRP	C-N	5.53	1.41	1.33
1	x	228	TRP	C-N	5.53	1.41	1.33
1	N	628	PHE	C-N	-5.41	1.22	1.33
1	Y	628	PHE	C-N	-5.41	1.22	1.33
1	1	628	PHE	C-N	-5.38	1.22	1.33
1	q	628	PHE	C-N	-5.37	1.22	1.33
1	j	229[A]	HIS	CA-CB	5.30	1.61	1.53
1	j	229[B]	HIS	CA-CB	5.30	1.61	1.53
1	5	229[A]	HIS	CA-CB	5.30	1.61	1.53
1	5	229[B]	HIS	CA-CB	5.30	1.61	1.53
1	a	628	PHE	C-N	5.29	1.44	1.33
1	d	628	PHE	C-N	5.29	1.44	1.33
1	u	229[A]	HIS	CA-CB	5.27	1.62	1.53
1	u	229[B]	HIS	CA-CB	5.27	1.62	1.53
1	x	229[A]	HIS	CA-CB	5.27	1.62	1.53
1	x	229[B]	HIS	CA-CB	5.27	1.62	1.53
1	1	629[A]	HIS	N-CA	-5.06	1.39	1.46
1	1	629[B]	HIS	N-CA	-5.06	1.39	1.46
1	u	229[A]	HIS	N-CA	5.05	1.52	1.46
1	u	229[B]	HIS	N-CA	5.05	1.52	1.46
1	x	229[A]	HIS	N-CA	5.05	1.52	1.46
1	x	229[B]	HIS	N-CA	5.05	1.52	1.46
1	q	629[A]	HIS	N-CA	-5.03	1.39	1.46
1	q	629[B]	HIS	N-CA	-5.03	1.39	1.46

All (196) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	228	TRP	CA-C-N	-9.92	107.92	121.71
1	E	228	TRP	C-N-CA	-9.92	107.92	121.71
1	G	228	TRP	CA-C-N	-9.92	107.92	121.71
1	G	228	TRP	C-N-CA	-9.92	107.92	121.71
1	F	228	TRP	CA-C-N	-9.10	109.06	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	228	TRP	C-N-CA	-9.10	109.06	121.71
1	A	228	TRP	CA-C-N	-9.00	109.20	121.71
1	A	228	TRP	C-N-CA	-9.00	109.20	121.71
1	I	228	TRP	CA-C-N	-8.47	109.94	121.71
1	I	228	TRP	C-N-CA	-8.47	109.94	121.71
1	Q	228	TRP	CA-C-N	-8.47	109.94	121.71
1	Q	228	TRP	C-N-CA	-8.47	109.94	121.71
1	R	228	TRP	CA-C-N	-7.23	111.66	121.71
1	R	228	TRP	C-N-CA	-7.23	111.66	121.71
1	B	228	TRP	CA-C-N	-7.07	111.89	121.71
1	B	228	TRP	C-N-CA	-7.07	111.89	121.71
1	j	629[A]	HIS	N-CA-C	-6.62	95.18	109.81
1	j	629[B]	HIS	N-CA-C	-6.62	95.18	109.81
1	5	629[A]	HIS	N-CA-C	-6.62	95.18	109.81
1	5	629[B]	HIS	N-CA-C	-6.62	95.18	109.81
1	Q	298[A]	ARG	CA-C-N	6.58	130.85	121.71
1	Q	298[A]	ARG	C-N-CA	6.58	130.85	121.71
1	Q	298[B]	ARG	CA-C-N	6.58	130.85	121.71
1	Q	298[B]	ARG	C-N-CA	6.58	130.85	121.71
1	I	298[A]	ARG	CA-C-N	6.57	130.84	121.71
1	I	298[A]	ARG	C-N-CA	6.57	130.84	121.71
1	I	298[B]	ARG	CA-C-N	6.57	130.84	121.71
1	I	298[B]	ARG	C-N-CA	6.57	130.84	121.71
1	v	629[A]	HIS	N-CA-C	-6.52	95.40	109.81
1	v	629[B]	HIS	N-CA-C	-6.52	95.40	109.81
1	y	629[A]	HIS	N-CA-C	-6.52	95.40	109.81
1	y	629[B]	HIS	N-CA-C	-6.52	95.40	109.81
1	D	228	TRP	CA-C-N	-6.39	110.12	121.81
1	D	228	TRP	C-N-CA	-6.39	110.12	121.81
1	W	228	TRP	CA-C-N	-6.38	110.13	121.81
1	W	228	TRP	C-N-CA	-6.38	110.13	121.81
1	i	229[A]	HIS	N-CA-CB	6.36	119.42	110.07
1	i	229[B]	HIS	N-CA-CB	6.36	119.42	110.07
1	7	229[A]	HIS	N-CA-CB	6.35	119.41	110.07
1	7	229[B]	HIS	N-CA-CB	6.35	119.41	110.07
1	J	228	TRP	CA-C-N	-6.19	110.48	121.81
1	J	228	TRP	C-N-CA	-6.19	110.48	121.81
1	S	228	TRP	CA-C-N	-6.17	110.52	121.81
1	S	228	TRP	C-N-CA	-6.17	110.52	121.81
1	E	298[A]	ARG	CA-C-N	6.08	130.16	121.71
1	E	298[A]	ARG	C-N-CA	6.08	130.16	121.71
1	E	298[B]	ARG	CA-C-N	6.08	130.16	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	298[B]	ARG	C-N-CA	6.08	130.16	121.71
1	G	298[A]	ARG	CA-C-N	6.08	130.16	121.71
1	G	298[A]	ARG	C-N-CA	6.08	130.16	121.71
1	G	298[B]	ARG	CA-C-N	6.08	130.16	121.71
1	G	298[B]	ARG	C-N-CA	6.08	130.16	121.71
1	L	298[A]	ARG	CA-C-N	5.94	129.97	121.71
1	L	298[A]	ARG	C-N-CA	5.94	129.97	121.71
1	L	298[B]	ARG	CA-C-N	5.94	129.97	121.71
1	L	298[B]	ARG	C-N-CA	5.94	129.97	121.71
1	g	229[A]	HIS	CA-C-N	5.93	131.79	122.78
1	g	229[A]	HIS	C-N-CA	5.93	131.79	122.78
1	g	229[B]	HIS	CA-C-N	5.93	131.79	122.78
1	g	229[B]	HIS	C-N-CA	5.93	131.79	122.78
1	p	229[A]	HIS	CA-C-N	5.93	131.79	122.78
1	p	229[A]	HIS	C-N-CA	5.93	131.79	122.78
1	p	229[B]	HIS	CA-C-N	5.93	131.79	122.78
1	p	229[B]	HIS	C-N-CA	5.93	131.79	122.78
1	1	229[A]	HIS	CA-C-N	5.92	132.85	121.54
1	1	229[A]	HIS	C-N-CA	5.92	132.85	121.54
1	1	229[B]	HIS	CA-C-N	5.92	132.85	121.54
1	1	229[B]	HIS	C-N-CA	5.92	132.85	121.54
1	q	229[A]	HIS	CA-C-N	5.91	132.83	121.54
1	q	229[A]	HIS	C-N-CA	5.91	132.83	121.54
1	q	229[B]	HIS	CA-C-N	5.91	132.83	121.54
1	q	229[B]	HIS	C-N-CA	5.91	132.83	121.54
1	z	629[A]	HIS	CA-C-N	5.90	127.21	119.84
1	z	629[A]	HIS	C-N-CA	5.90	127.21	119.84
1	z	629[B]	HIS	CA-C-N	5.90	127.21	119.84
1	z	629[B]	HIS	C-N-CA	5.90	127.21	119.84
1	s	629[A]	HIS	CA-C-N	5.86	127.16	119.84
1	s	629[A]	HIS	C-N-CA	5.86	127.16	119.84
1	s	629[B]	HIS	CA-C-N	5.86	127.16	119.84
1	s	629[B]	HIS	C-N-CA	5.86	127.16	119.84
1	U	298[A]	ARG	CA-C-N	5.85	129.84	121.71
1	U	298[A]	ARG	C-N-CA	5.85	129.84	121.71
1	U	298[B]	ARG	CA-C-N	5.85	129.84	121.71
1	U	298[B]	ARG	C-N-CA	5.85	129.84	121.71
1	b	228	TRP	CA-C-N	-5.83	113.60	121.71
1	b	228	TRP	C-N-CA	-5.83	113.60	121.71
1	e	228	TRP	CA-C-N	-5.83	113.60	121.71
1	e	228	TRP	C-N-CA	-5.83	113.60	121.71
1	Y	228	TRP	CA-C-N	-5.79	113.67	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	228	TRP	C-N-CA	-5.79	113.67	121.71
1	N	228	TRP	CA-C-N	-5.78	113.67	121.71
1	N	228	TRP	C-N-CA	-5.78	113.67	121.71
1	h	629[A]	HIS	CA-C-N	5.70	126.96	119.84
1	h	629[A]	HIS	C-N-CA	5.70	126.96	119.84
1	h	629[B]	HIS	CA-C-N	5.70	126.96	119.84
1	h	629[B]	HIS	C-N-CA	5.70	126.96	119.84
1	o	629[A]	HIS	CA-C-N	5.69	126.96	119.84
1	o	629[A]	HIS	C-N-CA	5.69	126.96	119.84
1	o	629[B]	HIS	CA-C-N	5.69	126.96	119.84
1	o	629[B]	HIS	C-N-CA	5.69	126.96	119.84
1	O	229[A]	HIS	N-CA-CB	5.68	118.43	110.07
1	O	229[B]	HIS	N-CA-CB	5.68	118.43	110.07
1	Z	229[A]	HIS	N-CA-CB	5.67	118.41	110.07
1	Z	229[B]	HIS	N-CA-CB	5.67	118.41	110.07
1	u	629[A]	HIS	CA-C-N	5.52	126.73	119.84
1	u	629[A]	HIS	C-N-CA	5.52	126.73	119.84
1	u	629[B]	HIS	CA-C-N	5.52	126.73	119.84
1	u	629[B]	HIS	C-N-CA	5.52	126.73	119.84
1	x	629[A]	HIS	CA-C-N	5.52	126.73	119.84
1	x	629[A]	HIS	C-N-CA	5.52	126.73	119.84
1	x	629[B]	HIS	CA-C-N	5.52	126.73	119.84
1	x	629[B]	HIS	C-N-CA	5.52	126.73	119.84
1	F	298[A]	ARG	CA-C-N	5.46	129.08	120.89
1	F	298[A]	ARG	C-N-CA	5.46	129.08	120.89
1	F	298[B]	ARG	CA-C-N	5.46	129.08	120.89
1	F	298[B]	ARG	C-N-CA	5.46	129.08	120.89
1	v	229[A]	HIS	CA-C-N	5.45	131.96	121.54
1	v	229[A]	HIS	C-N-CA	5.45	131.96	121.54
1	v	229[B]	HIS	CA-C-N	5.45	131.96	121.54
1	v	229[B]	HIS	C-N-CA	5.45	131.96	121.54
1	y	229[A]	HIS	CA-C-N	5.45	131.96	121.54
1	y	229[A]	HIS	C-N-CA	5.45	131.96	121.54
1	y	229[B]	HIS	CA-C-N	5.45	131.96	121.54
1	y	229[B]	HIS	C-N-CA	5.45	131.96	121.54
1	A	298[A]	ARG	CA-C-N	5.45	129.07	120.89
1	A	298[A]	ARG	C-N-CA	5.45	129.07	120.89
1	A	298[B]	ARG	CA-C-N	5.45	129.07	120.89
1	A	298[B]	ARG	C-N-CA	5.45	129.07	120.89
1	s	229[A]	HIS	N-CA-CB	5.40	118.12	110.13
1	s	229[B]	HIS	N-CA-CB	5.40	118.12	110.13
1	f	229[A]	HIS	N-CA-CB	5.39	117.76	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f	229[B]	HIS	N-CA-CB	5.39	117.76	110.10
1	c	229[A]	HIS	N-CA-CB	5.35	117.70	110.10
1	c	229[B]	HIS	N-CA-CB	5.35	117.70	110.10
1	z	229[A]	HIS	N-CA-CB	5.34	118.03	110.13
1	z	229[B]	HIS	N-CA-CB	5.34	118.03	110.13
1	j	628	PHE	CA-C-N	5.28	134.69	121.80
1	j	628	PHE	C-N-CA	5.28	134.69	121.80
1	5	628	PHE	CA-C-N	5.28	134.69	121.80
1	5	628	PHE	C-N-CA	5.28	134.69	121.80
1	c	229[A]	HIS	CB-CA-C	-5.27	103.01	111.39
1	c	229[B]	HIS	CB-CA-C	-5.27	103.01	111.39
1	8	229[A]	HIS	CA-C-N	5.27	130.79	122.78
1	8	229[A]	HIS	C-N-CA	5.27	130.79	122.78
1	8	229[B]	HIS	CA-C-N	5.27	130.79	122.78
1	8	229[B]	HIS	C-N-CA	5.27	130.79	122.78
1	l	229[A]	HIS	CB-CA-C	5.26	119.76	111.39
1	l	229[B]	HIS	CB-CA-C	5.26	119.76	111.39
1	l	229[A]	HIS	CA-C-N	5.26	130.78	122.78
1	l	229[A]	HIS	C-N-CA	5.26	130.78	122.78
1	l	229[B]	HIS	CA-C-N	5.26	130.78	122.78
1	l	229[B]	HIS	C-N-CA	5.26	130.78	122.78
1	j	229[A]	HIS	N-CA-C	-5.25	104.46	111.24
1	j	229[B]	HIS	N-CA-C	-5.25	104.46	111.24
1	q	229[A]	HIS	N-CA-C	-5.25	104.46	111.24
1	q	229[B]	HIS	N-CA-C	-5.25	104.46	111.24
1	1	229[A]	HIS	N-CA-C	-5.25	104.46	111.24
1	1	229[B]	HIS	N-CA-C	-5.25	104.46	111.24
1	5	229[A]	HIS	N-CA-C	-5.25	104.46	111.24
1	5	229[B]	HIS	N-CA-C	-5.25	104.46	111.24
1	f	229[A]	HIS	CB-CA-C	-5.24	103.06	111.39
1	f	229[B]	HIS	CB-CA-C	-5.24	103.06	111.39
1	8	229[A]	HIS	CB-CA-C	5.23	119.71	111.39
1	8	229[B]	HIS	CB-CA-C	5.23	119.71	111.39
1	N	629[A]	HIS	CA-C-N	-5.22	113.31	119.84
1	N	629[A]	HIS	C-N-CA	-5.22	113.31	119.84
1	N	629[B]	HIS	CA-C-N	-5.22	113.31	119.84
1	N	629[B]	HIS	C-N-CA	-5.22	113.31	119.84
1	Y	629[A]	HIS	CA-C-N	-5.20	113.34	119.84
1	Y	629[A]	HIS	C-N-CA	-5.20	113.34	119.84
1	Y	629[B]	HIS	CA-C-N	-5.20	113.34	119.84
1	Y	629[B]	HIS	C-N-CA	-5.20	113.34	119.84
1	C	228	TRP	CA-C-N	-5.18	112.33	121.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	228	TRP	C-N-CA	-5.18	112.33	121.81
1	V	228	TRP	CA-C-N	-5.18	112.33	121.81
1	V	228	TRP	C-N-CA	-5.18	112.33	121.81
1	v	629[A]	HIS	CB-CA-C	5.15	120.31	110.17
1	v	629[B]	HIS	CB-CA-C	5.15	120.31	110.17
1	y	629[A]	HIS	CB-CA-C	5.15	120.31	110.17
1	y	629[B]	HIS	CB-CA-C	5.15	120.31	110.17
1	t	629[A]	HIS	CA-C-N	5.08	124.75	119.56
1	t	629[A]	HIS	C-N-CA	5.08	124.75	119.56
1	t	629[B]	HIS	CA-C-N	5.08	124.75	119.56
1	t	629[B]	HIS	C-N-CA	5.08	124.75	119.56
1	w	629[A]	HIS	CA-C-N	5.08	124.75	119.56
1	w	629[A]	HIS	C-N-CA	5.08	124.75	119.56
1	w	629[B]	HIS	CA-C-N	5.08	124.75	119.56
1	w	629[B]	HIS	C-N-CA	5.08	124.75	119.56
1	P	228	TRP	CA-C-N	-5.08	113.27	120.89
1	P	228	TRP	C-N-CA	-5.08	113.27	120.89
1	H	228	TRP	CA-C-N	-5.06	113.31	120.89
1	H	228	TRP	C-N-CA	-5.06	113.31	120.89
1	u	229[A]	HIS	N-CA-CB	5.01	117.55	110.13
1	u	229[B]	HIS	N-CA-CB	5.01	117.55	110.13
1	x	229[A]	HIS	N-CA-CB	5.01	117.55	110.13
1	x	229[B]	HIS	N-CA-CB	5.01	117.55	110.13

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	4168	0	3919	140	0
1	2	4168	0	3919	132	0
1	3	4168	0	3919	136	0
1	4	4168	0	3919	125	0
1	5	4168	0	3919	130	0
1	6	4168	0	3919	139	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	7	4168	0	3919	127	0
1	8	4168	0	3919	136	0
1	A	4168	0	3919	131	0
1	B	4168	0	3919	135	0
1	C	4168	0	3919	130	0
1	D	4168	0	3919	125	0
1	E	4168	0	3919	130	0
1	F	4168	0	3919	127	0
1	G	4168	0	3919	129	0
1	H	4168	0	3919	135	0
1	I	4168	0	3919	133	0
1	J	4168	0	3919	129	0
1	K	4168	0	3919	133	0
1	L	4168	0	3919	135	0
1	M	4168	0	3919	139	0
1	N	4168	0	3919	126	0
1	O	4168	0	3919	129	0
1	P	4168	0	3919	131	0
1	Q	4168	0	3919	131	0
1	R	4168	0	3919	131	0
1	S	4168	0	3919	130	0
1	T	4168	0	3919	135	0
1	U	4168	0	3919	138	0
1	V	4168	0	3919	130	0
1	W	4168	0	3919	122	0
1	X	4168	0	3919	135	0
1	Y	4168	0	3919	128	0
1	Z	4168	0	3919	130	0
1	a	4168	0	3919	122	0
1	b	4168	0	3919	136	0
1	c	4168	0	3919	128	0
1	d	4168	0	3919	126	0
1	e	4168	0	3919	130	0
1	f	4168	0	3919	134	0
1	g	4168	0	3919	144	0
1	h	4168	0	3919	124	0
1	i	4168	0	3919	126	0
1	j	4168	0	3919	128	0
1	k	4168	0	3919	142	0
1	l	4168	0	3919	137	0
1	m	4168	0	3919	127	0
1	n	4168	0	3919	143	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	o	4168	0	3919	127	0
1	p	4168	0	3919	144	0
1	q	4168	0	3919	138	0
1	r	4168	0	3919	134	0
1	s	4168	0	3919	129	0
1	t	4168	0	3919	132	0
1	u	4168	0	3919	133	0
1	v	4168	0	3919	134	0
1	w	4168	0	3919	136	0
1	x	4168	0	3919	131	0
1	y	4168	0	3919	131	0
1	z	4168	0	3919	125	0
All	All	250080	0	235140	6823	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 14.

All (6823) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:295:ASP:OD1	1:U:298[A]:ARG:NH1	1.95	0.99
1:L:295:ASP:OD1	1:L:298[A]:ARG:NH1	1.94	0.99
1:N:295:ASP:OD1	1:N:298[A]:ARG:NH1	2.00	0.95
1:Y:295:ASP:OD1	1:Y:298[A]:ARG:NH1	2.00	0.95
1:Q:295:ASP:OD1	1:Q:298[A]:ARG:NH1	2.02	0.92
1:I:295:ASP:OD1	1:I:298[A]:ARG:NH1	2.02	0.92
1:n:295:ASP:OD1	1:n:298[A]:ARG:NH1	2.10	0.84
1:3:295:ASP:OD1	1:3:298[A]:ARG:NH1	2.10	0.84
1:D:518:ASN:ND2	1:x:474:SER:OG	2.11	0.84
1:B:518:ASN:ND2	1:2:474:SER:OG	2.11	0.83
1:Q:518:ASN:ND2	1:Z:474:SER:OG	2.11	0.83
1:N:601:LEU:H	1:N:604:MET:HE2	1.44	0.83
1:V:518:ASN:ND2	1:w:474:SER:OG	2.11	0.83
1:i:601:LEU:H	1:i:604:MET:HE2	1.44	0.83
1:o:601:LEU:H	1:o:604:MET:HE2	1.44	0.83
1:D:601:LEU:H	1:D:604:MET:HE2	1.44	0.83
1:e:601:LEU:H	1:e:604:MET:HE2	1.44	0.83
1:k:601:LEU:H	1:k:604:MET:HE2	1.44	0.83
1:L:601:LEU:H	1:L:604:MET:HE2	1.44	0.83
1:X:601:LEU:H	1:X:604:MET:HE2	1.44	0.83
1:c:601:LEU:H	1:c:604:MET:HE2	1.44	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:601:LEU:H	1:z:604:MET:HE2	1.44	0.83
1:W:601:LEU:H	1:W:604:MET:HE2	1.44	0.82
1:6:601:LEU:H	1:6:604:MET:HE2	1.44	0.82
1:F:601:LEU:H	1:F:604:MET:HE2	1.44	0.82
1:M:601:LEU:H	1:M:604:MET:HE2	1.44	0.82
1:d:518:ASN:ND2	1:v:474:SER:OG	2.11	0.82
1:u:601:LEU:H	1:u:604:MET:HE2	1.44	0.82
1:1:601:LEU:H	1:1:604:MET:HE2	1.44	0.82
1:I:601:LEU:H	1:I:604:MET:HE2	1.44	0.82
1:h:601:LEU:H	1:h:604:MET:HE2	1.44	0.82
1:y:601:LEU:H	1:y:604:MET:HE2	1.44	0.82
1:g:474:SER:OG	1:7:518:ASN:ND2	2.12	0.82
1:j:474:SER:OG	1:o:518:ASN:ND2	2.12	0.82
1:q:601:LEU:H	1:q:604:MET:HE2	1.44	0.82
1:d:601:LEU:H	1:d:604:MET:HE2	1.44	0.82
1:g:234:TRP:CE2	1:g:298[A]:ARG:HD2	2.15	0.82
1:n:601:LEU:H	1:n:604:MET:HE2	1.44	0.82
1:v:601:LEU:H	1:v:604:MET:HE2	1.44	0.82
1:B:601:LEU:H	1:B:604:MET:HE2	1.44	0.82
1:R:601:LEU:H	1:R:604:MET:HE2	1.44	0.82
1:A:601:LEU:H	1:A:604:MET:HE2	1.44	0.82
1:X:234:TRP:CE2	1:X:298[B]:ARG:HD3	2.15	0.82
1:Y:601:LEU:H	1:Y:604:MET:HE2	1.44	0.82
1:a:518:ASN:ND2	1:y:474:SER:OG	2.11	0.82
1:f:518:ASN:ND2	1:n:474:SER:OG	2.13	0.82
1:4:601:LEU:H	1:4:604:MET:HE2	1.44	0.82
1:A:518:ASN:ND2	1:f:474:SER:OG	2.11	0.82
1:G:518:ASN:ND2	1:7:474:SER:OG	2.11	0.82
1:o:474:SER:OG	1:4:518:ASN:ND2	2.12	0.82
1:C:601:LEU:H	1:C:604:MET:HE2	1.44	0.82
1:E:601:LEU:H	1:E:604:MET:HE2	1.44	0.82
1:b:518:ASN:ND2	1:d:474:SER:OG	2.13	0.82
1:j:601:LEU:H	1:j:604:MET:HE2	1.44	0.82
1:7:601:LEU:H	1:7:604:MET:HE2	1.44	0.82
1:J:601:LEU:H	1:J:604:MET:HE2	1.44	0.82
1:K:601:LEU:H	1:K:604:MET:HE2	1.44	0.82
1:w:601:LEU:H	1:w:604:MET:HE2	1.44	0.82
1:2:601:LEU:H	1:2:604:MET:HE2	1.44	0.82
1:3:601:LEU:H	1:3:604:MET:HE2	1.44	0.82
1:P:601:LEU:H	1:P:604:MET:HE2	1.44	0.81
1:R:518:ASN:ND2	1:r:474:SER:OG	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:601:LEU:H	1:x:604:MET:HE2	1.44	0.81
1:K:518:ASN:ND2	1:X:474:SER:OG	2.13	0.81
1:P:474:SER:OG	1:X:518:ASN:ND2	2.13	0.81
1:a:601:LEU:H	1:a:604:MET:HE2	1.44	0.81
1:I:518:ASN:ND2	1:O:474:SER:OG	2.11	0.81
1:O:518:ASN:ND2	1:6:474:SER:OG	2.12	0.81
1:O:601:LEU:H	1:O:604:MET:HE2	1.44	0.81
1:Q:601:LEU:H	1:Q:604:MET:HE2	1.44	0.81
1:f:601:LEU:H	1:f:604:MET:HE2	1.44	0.81
1:g:601:LEU:H	1:g:604:MET:HE2	1.44	0.81
1:l:601:LEU:H	1:l:604:MET:HE2	1.44	0.81
1:C:474:SER:OG	1:Y:518:ASN:ND2	2.13	0.81
1:b:601:LEU:H	1:b:604:MET:HE2	1.44	0.81
1:s:601:LEU:H	1:s:604:MET:HE2	1.44	0.81
1:M:234:TRP:CE2	1:M:298[B]:ARG:HD3	2.15	0.81
1:U:601:LEU:H	1:U:604:MET:HE2	1.44	0.81
1:p:234:TRP:CE2	1:p:298[A]:ARG:HD2	2.15	0.81
1:Z:601:LEU:H	1:Z:604:MET:HE2	1.44	0.81
1:h:518:ASN:ND2	1:5:474:SER:OG	2.12	0.81
1:K:474:SER:OG	1:P:518:ASN:ND2	2.12	0.81
1:G:601:LEU:H	1:G:604:MET:HE2	1.44	0.81
1:t:601:LEU:H	1:t:604:MET:HE2	1.44	0.81
1:W:518:ASN:ND2	1:u:474:SER:OG	2.11	0.81
1:p:601:LEU:H	1:p:604:MET:HE2	1.44	0.81
1:5:601:LEU:H	1:5:604:MET:HE2	1.44	0.81
1:8:601:LEU:H	1:8:604:MET:HE2	1.44	0.81
1:C:518:ASN:ND2	1:t:474:SER:OG	2.11	0.80
1:l:474:SER:OG	1:u:518:ASN:ND2	2.13	0.80
1:m:601:LEU:H	1:m:604:MET:HE2	1.44	0.80
1:F:518:ASN:ND2	1:c:474:SER:OG	2.11	0.80
1:V:601:LEU:H	1:V:604:MET:HE2	1.44	0.80
1:H:474:SER:OG	1:M:518:ASN:ND2	2.13	0.80
1:H:601:LEU:H	1:H:604:MET:HE2	1.44	0.80
1:S:601:LEU:H	1:S:604:MET:HE2	1.44	0.80
1:T:601:LEU:H	1:T:604:MET:HE2	1.44	0.80
1:r:601:LEU:H	1:r:604:MET:HE2	1.44	0.80
1:Z:518:ASN:ND2	1:k:474:SER:OG	2.12	0.80
1:q:234:TRP:CE2	1:q:298[A]:ARG:HD2	2.17	0.80
1:E:474:SER:OG	1:p:518:ASN:ND2	2.14	0.80
1:Y:474:SER:OG	1:t:518:ASN:ND2	2.14	0.80
1:1:234:TRP:CE2	1:1:298[A]:ARG:HD2	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:474:SER:OG	1:q:518:ASN:ND2	2.14	0.80
1:S:518:ASN:ND2	1:z:474:SER:OG	2.12	0.80
1:b:474:SER:OG	1:v:518:ASN:ND2	2.14	0.80
1:j:518:ASN:ND2	1:4:474:SER:OG	2.13	0.80
1:h:474:SER:OG	1:m:518:ASN:ND2	2.12	0.79
1:W:474:SER:OG	1:l:518:ASN:ND2	2.14	0.79
1:8:295:ASP:OD1	1:8:298[A]:ARG:NH1	2.15	0.79
1:V:610:ASP:OD1	1:V:729:ARG:NH1	2.16	0.79
1:A:474:SER:OG	1:n:518:ASN:ND2	2.14	0.79
1:F:474:SER:OG	1:3:518:ASN:ND2	2.14	0.79
1:L:610:ASP:OD1	1:L:729:ARG:NH1	2.16	0.79
1:Z:610:ASP:OD1	1:Z:729:ARG:NH1	2.16	0.79
1:e:610:ASP:OD1	1:e:729:ARG:NH1	2.16	0.79
1:p:610:ASP:OD1	1:p:729:ARG:NH1	2.16	0.79
1:s:518:ASN:ND2	1:1:474:SER:OG	2.12	0.79
1:8:610:ASP:OD1	1:8:729:ARG:NH1	2.16	0.79
1:E:610:ASP:OD1	1:E:729:ARG:NH1	2.16	0.79
1:P:610:ASP:OD1	1:P:729:ARG:NH1	2.16	0.79
1:b:610:ASP:OD1	1:b:729:ARG:NH1	2.16	0.79
1:c:610:ASP:OD1	1:c:729:ARG:NH1	2.16	0.79
1:f:610:ASP:OD1	1:f:729:ARG:NH1	2.16	0.79
1:j:610:ASP:OD1	1:j:729:ARG:NH1	2.16	0.79
1:z:610:ASP:OD1	1:z:729:ARG:NH1	2.16	0.79
1:G:610:ASP:OD1	1:G:729:ARG:NH1	2.16	0.79
1:W:610:ASP:OD1	1:W:729:ARG:NH1	2.16	0.79
1:t:610:ASP:OD1	1:t:729:ARG:NH1	2.16	0.79
1:F:610:ASP:OD1	1:F:729:ARG:NH1	2.16	0.79
1:J:518:ASN:ND2	1:s:474:SER:OG	2.12	0.79
1:R:610:ASP:OD1	1:R:729:ARG:NH1	2.16	0.79
1:d:610:ASP:OD1	1:d:729:ARG:NH1	2.16	0.79
1:q:610:ASP:OD1	1:q:729:ARG:NH1	2.16	0.79
1:w:610:ASP:OD1	1:w:729:ARG:NH1	2.16	0.79
1:y:610:ASP:OD1	1:y:729:ARG:NH1	2.16	0.79
1:3:610:ASP:OD1	1:3:729:ARG:NH1	2.16	0.79
1:6:610:ASP:OD1	1:6:729:ARG:NH1	2.16	0.79
1:D:610:ASP:OD1	1:D:729:ARG:NH1	2.16	0.79
1:I:610:ASP:OD1	1:I:729:ARG:NH1	2.16	0.79
1:a:610:ASP:OD1	1:a:729:ARG:NH1	2.16	0.79
1:u:610:ASP:OD1	1:u:729:ARG:NH1	2.16	0.79
1:E:518:ASN:ND2	1:i:474:SER:OG	2.11	0.79
1:K:610:ASP:OD1	1:K:729:ARG:NH1	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:474:SER:OG	1:T:518:ASN:ND2	2.13	0.79
1:h:610:ASP:OD1	1:h:729:ARG:NH1	2.16	0.79
1:k:610:ASP:OD1	1:k:729:ARG:NH1	2.16	0.79
1:n:610:ASP:OD1	1:n:729:ARG:NH1	2.16	0.79
1:q:474:SER:OG	1:z:518:ASN:ND2	2.12	0.79
1:B:610:ASP:OD1	1:B:729:ARG:NH1	2.16	0.78
1:M:610:ASP:OD1	1:M:729:ARG:NH1	2.16	0.78
1:1:610:ASP:OD1	1:1:729:ARG:NH1	2.16	0.78
1:3:234:TRP:CH2	1:3:298[A]:ARG:HB2	2.18	0.78
1:4:610:ASP:OD1	1:4:729:ARG:NH1	2.16	0.78
1:5:610:ASP:OD1	1:5:729:ARG:NH1	2.16	0.78
1:A:610:ASP:OD1	1:A:729:ARG:NH1	2.16	0.78
1:D:474:SER:OG	1:8:518:ASN:ND2	2.14	0.78
1:H:610:ASP:OD1	1:H:729:ARG:NH1	2.16	0.78
1:T:610:ASP:OD1	1:T:729:ARG:NH1	2.16	0.78
1:L:474:SER:OG	1:r:518:ASN:ND2	2.13	0.78
1:O:610:ASP:OD1	1:O:729:ARG:NH1	2.16	0.78
1:Y:610:ASP:OD1	1:Y:729:ARG:NH1	2.16	0.78
1:c:518:ASN:ND2	1:3:474:SER:OG	2.13	0.78
1:v:610:ASP:OD1	1:v:729:ARG:NH1	2.16	0.78
1:x:610:ASP:OD1	1:x:729:ARG:NH1	2.16	0.78
1:N:610:ASP:OD1	1:N:729:ARG:NH1	2.16	0.78
1:Q:610:ASP:OD1	1:Q:729:ARG:NH1	2.16	0.78
1:l:610:ASP:OD1	1:l:729:ARG:NH1	2.16	0.78
1:m:610:ASP:OD1	1:m:729:ARG:NH1	2.16	0.78
1:e:474:SER:OG	1:y:518:ASN:ND2	2.14	0.78
1:7:610:ASP:OD1	1:7:729:ARG:NH1	2.16	0.78
1:H:518:ASN:ND2	1:T:474:SER:OG	2.12	0.78
1:U:610:ASP:OD1	1:U:729:ARG:NH1	2.16	0.78
1:a:474:SER:OG	1:e:518:ASN:ND2	2.13	0.78
1:i:610:ASP:OD1	1:i:729:ARG:NH1	2.16	0.78
1:s:610:ASP:OD1	1:s:729:ARG:NH1	2.16	0.78
1:C:610:ASP:OD1	1:C:729:ARG:NH1	2.16	0.78
1:G:474:SER:OG	1:g:518:ASN:ND2	2.14	0.78
1:I:474:SER:OG	1:6:518:ASN:ND2	2.14	0.78
1:l:295:ASP:OD1	1:l:298[A]:ARG:NH1	2.15	0.78
1:2:610:ASP:OD1	1:2:729:ARG:NH1	2.16	0.78
1:J:610:ASP:OD1	1:J:729:ARG:NH1	2.16	0.78
1:g:610:ASP:OD1	1:g:729:ARG:NH1	2.16	0.78
1:N:234:TRP:CG	1:N:298[B]:ARG:HE	2.02	0.78
1:n:234:TRP:CH2	1:n:298[A]:ARG:HB2	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:518:ASN:ND2	1:R:474:SER:OG	2.13	0.78
1:U:474:SER:OG	1:2:518:ASN:ND2	2.13	0.78
1:D:526:HIS:CE1	1:D:563:GLU:HB3	2.20	0.77
1:S:610:ASP:OD1	1:S:729:ARG:NH1	2.16	0.77
1:n:526:HIS:CE1	1:n:563:GLU:HB3	2.20	0.77
1:N:526:HIS:CE1	1:N:563:GLU:HB3	2.20	0.77
1:X:610:ASP:OD1	1:X:729:ARG:NH1	2.16	0.77
1:a:526:HIS:CE1	1:a:563:GLU:HB3	2.20	0.77
1:d:526:HIS:CE1	1:d:563:GLU:HB3	2.20	0.77
1:j:526:HIS:CE1	1:j:563:GLU:HB3	2.20	0.77
1:q:526:HIS:CE1	1:q:563:GLU:HB3	2.20	0.77
1:1:526:HIS:CE1	1:1:563:GLU:HB3	2.20	0.77
1:3:526:HIS:CE1	1:3:563:GLU:HB3	2.20	0.77
1:R:526:HIS:CE1	1:R:563:GLU:HB3	2.20	0.77
1:S:526:HIS:CE1	1:S:563:GLU:HB3	2.20	0.77
1:k:526:HIS:CE1	1:k:563:GLU:HB3	2.20	0.77
1:p:295:ASP:OD1	1:p:298[A]:ARG:NH1	2.17	0.77
1:r:526:HIS:CE1	1:r:563:GLU:HB3	2.20	0.77
1:r:610:ASP:OD1	1:r:729:ARG:NH1	2.16	0.77
1:y:526:HIS:CE1	1:y:563:GLU:HB3	2.20	0.77
1:B:526:HIS:CE1	1:B:563:GLU:HB3	2.20	0.77
1:P:526:HIS:CE1	1:P:563:GLU:HB3	2.20	0.77
1:T:526:HIS:CE1	1:T:563:GLU:HB3	2.20	0.77
1:c:526:HIS:CE1	1:c:563:GLU:HB3	2.20	0.77
1:e:526:HIS:CE1	1:e:563:GLU:HB3	2.20	0.77
1:i:526:HIS:CE1	1:i:563:GLU:HB3	2.20	0.77
1:F:526:HIS:CE1	1:F:563:GLU:HB3	2.20	0.77
1:m:474:SER:OG	1:5:518:ASN:ND2	2.13	0.77
1:m:526:HIS:CE1	1:m:563:GLU:HB3	2.20	0.77
1:o:610:ASP:OD1	1:o:729:ARG:NH1	2.16	0.77
1:J:526:HIS:CE1	1:J:563:GLU:HB3	2.20	0.77
1:I:526:HIS:CE1	1:I:563:GLU:HB3	2.20	0.77
1:Y:234:TRP:CG	1:Y:298[B]:ARG:HE	2.02	0.77
1:g:526:HIS:CE1	1:g:563:GLU:HB3	2.20	0.77
1:2:526:HIS:CE1	1:2:563:GLU:HB3	2.20	0.77
1:C:526:HIS:CE1	1:C:563:GLU:HB3	2.20	0.77
1:K:526:HIS:CE1	1:K:563:GLU:HB3	2.20	0.77
1:M:295:ASP:OD1	1:M:298[A]:ARG:NH1	2.17	0.77
1:N:474:SER:OG	1:w:518:ASN:ND2	2.14	0.77
1:u:526:HIS:CE1	1:u:563:GLU:HB3	2.20	0.77
1:x:518:ASN:ND2	1:8:474:SER:OG	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:526:HIS:CE1	1:U:563:GLU:HB3	2.20	0.77
1:b:526:HIS:CE1	1:b:563:GLU:HB3	2.20	0.77
1:f:526:HIS:CE1	1:f:563:GLU:HB3	2.20	0.77
1:s:526:HIS:CE1	1:s:563:GLU:HB3	2.20	0.77
1:Y:526:HIS:CE1	1:Y:563:GLU:HB3	2.20	0.77
1:Z:526:HIS:CE1	1:Z:563:GLU:HB3	2.20	0.77
1:o:526:HIS:CE1	1:o:563:GLU:HB3	2.20	0.77
1:p:526:HIS:CE1	1:p:563:GLU:HB3	2.20	0.77
1:w:526:HIS:CE1	1:w:563:GLU:HB3	2.20	0.77
1:4:526:HIS:CE1	1:4:563:GLU:HB3	2.20	0.77
1:5:526:HIS:CE1	1:5:563:GLU:HB3	2.20	0.77
1:E:526:HIS:CE1	1:E:563:GLU:HB3	2.20	0.76
1:H:526:HIS:CE1	1:H:563:GLU:HB3	2.20	0.76
1:J:474:SER:OG	1:1:518:ASN:ND2	2.13	0.76
1:V:526:HIS:CE1	1:V:563:GLU:HB3	2.20	0.76
1:X:526:HIS:CE1	1:X:563:GLU:HB3	2.20	0.76
1:8:526:HIS:CE1	1:8:563:GLU:HB3	2.20	0.76
1:O:526:HIS:CE1	1:O:563:GLU:HB3	2.20	0.76
1:7:526:HIS:CE1	1:7:563:GLU:HB3	2.20	0.76
1:M:526:HIS:CE1	1:M:563:GLU:HB3	2.20	0.76
1:h:526:HIS:CE1	1:h:563:GLU:HB3	2.20	0.76
1:i:518:ASN:ND2	1:p:474:SER:OG	2.12	0.76
1:l:526:HIS:CE1	1:l:563:GLU:HB3	2.20	0.76
1:Q:526:HIS:CE1	1:Q:563:GLU:HB3	2.20	0.76
1:G:526:HIS:CE1	1:G:563:GLU:HB3	2.20	0.76
1:L:526:HIS:CE1	1:L:563:GLU:HB3	2.20	0.76
1:p:234:TRP:CH2	1:p:298[A]:ARG:HB2	2.21	0.76
1:z:526:HIS:CE1	1:z:563:GLU:HB3	2.20	0.76
1:t:526:HIS:CE1	1:t:563:GLU:HB3	2.20	0.76
1:x:526:HIS:CE1	1:x:563:GLU:HB3	2.20	0.76
1:W:526:HIS:CE1	1:W:563:GLU:HB3	2.20	0.76
1:g:234:TRP:CH2	1:g:298[A]:ARG:HB2	2.21	0.76
1:A:526:HIS:CE1	1:A:563:GLU:HB3	2.20	0.75
1:v:526:HIS:CE1	1:v:563:GLU:HB3	2.20	0.75
1:1:345:ASP:OD1	1:1:346:SER:N	2.20	0.75
1:6:526:HIS:CE1	1:6:563:GLU:HB3	2.20	0.75
1:B:345:ASP:OD1	1:B:346:SER:N	2.20	0.75
1:N:518:ASN:ND2	1:V:474:SER:OG	2.13	0.75
1:j:345:ASP:OD1	1:j:346:SER:N	2.20	0.75
1:M:345:ASP:OD1	1:M:346:SER:N	2.20	0.75
1:P:345:ASP:OD1	1:P:346:SER:N	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:345:ASP:OD1	1:h:346:SER:N	2.20	0.75
1:D:345:ASP:OD1	1:D:346:SER:N	2.20	0.75
1:k:345:ASP:OD1	1:k:346:SER:N	2.20	0.75
1:R:345:ASP:OD1	1:R:346:SER:N	2.20	0.75
1:q:345:ASP:OD1	1:q:346:SER:N	2.20	0.75
1:I:234:TRP:CE2	1:I:298[B]:ARG:HD3	2.22	0.75
1:n:345:ASP:OD1	1:n:346:SER:N	2.20	0.75
1:e:345:ASP:OD1	1:e:346:SER:N	2.20	0.75
1:A:345:ASP:OD1	1:A:346:SER:N	2.20	0.74
1:c:345:ASP:OD1	1:c:346:SER:N	2.20	0.74
1:d:345:ASP:OD1	1:d:346:SER:N	2.20	0.74
1:V:345:ASP:OD1	1:V:346:SER:N	2.20	0.74
1:v:345:ASP:OD1	1:v:346:SER:N	2.20	0.74
1:J:345:ASP:OD1	1:J:346:SER:N	2.20	0.74
1:p:345:ASP:OD1	1:p:346:SER:N	2.20	0.74
1:2:345:ASP:OD1	1:2:346:SER:N	2.20	0.74
1:N:345:ASP:OD1	1:N:346:SER:N	2.20	0.74
1:Q:234:TRP:CE2	1:Q:298[B]:ARG:HD3	2.22	0.74
1:X:234:TRP:CH2	1:X:298[A]:ARG:HB2	2.22	0.74
1:Z:345:ASP:OD1	1:Z:346:SER:N	2.20	0.74
1:i:345:ASP:OD1	1:i:346:SER:N	2.20	0.74
1:G:345:ASP:OD1	1:G:346:SER:N	2.20	0.74
1:X:295:ASP:OD1	1:X:298[A]:ARG:NH1	2.17	0.74
1:X:345:ASP:OD1	1:X:346:SER:N	2.20	0.74
1:Y:345:ASP:OD1	1:Y:346:SER:N	2.20	0.74
1:m:345:ASP:OD1	1:m:346:SER:N	2.20	0.74
1:o:345:ASP:OD1	1:o:346:SER:N	2.20	0.74
1:K:345:ASP:OD1	1:K:346:SER:N	2.20	0.74
1:T:345:ASP:OD1	1:T:346:SER:N	2.20	0.74
1:V:483:TYR:H	1:V:523:MET:HE1	1.53	0.74
1:g:295:ASP:OD1	1:g:298[A]:ARG:NH1	2.17	0.74
1:8:345:ASP:OD1	1:8:346:SER:N	2.20	0.74
1:C:483:TYR:H	1:C:523:MET:HE1	1.53	0.74
1:M:234:TRP:CH2	1:M:298[A]:ARG:HB2	2.22	0.74
1:g:483:TYR:H	1:g:523:MET:HE1	1.53	0.74
1:t:345:ASP:OD1	1:t:346:SER:N	2.20	0.74
1:4:345:ASP:OD1	1:4:346:SER:N	2.20	0.74
1:7:345:ASP:OD1	1:7:346:SER:N	2.20	0.74
1:B:474:SER:OG	1:U:518:ASN:ND2	2.17	0.74
1:S:483:TYR:H	1:S:523:MET:HE1	1.53	0.74
1:p:483:TYR:H	1:p:523:MET:HE1	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:483:TYR:H	1:r:523:MET:HE1	1.53	0.74
1:f:483:TYR:H	1:f:523:MET:HE1	1.53	0.73
1:s:345:ASP:OD1	1:s:346:SER:N	2.20	0.73
1:I:345:ASP:OD1	1:I:346:SER:N	2.20	0.73
1:M:234:TRP:CH2	1:M:298[B]:ARG:HB3	2.22	0.73
1:N:483:TYR:H	1:N:523:MET:HE1	1.53	0.73
1:U:345:ASP:OD1	1:U:346:SER:N	2.20	0.73
1:b:483:TYR:H	1:b:523:MET:HE1	1.53	0.73
1:i:483:TYR:H	1:i:523:MET:HE1	1.53	0.73
1:3:483:TYR:H	1:3:523:MET:HE1	1.53	0.73
1:a:483:TYR:H	1:a:523:MET:HE1	1.53	0.73
1:d:483:TYR:H	1:d:523:MET:HE1	1.53	0.73
1:n:234:TRP:CE2	1:n:298[B]:ARG:HD3	2.23	0.73
1:n:483:TYR:H	1:n:523:MET:HE1	1.53	0.73
1:u:345:ASP:OD1	1:u:346:SER:N	2.20	0.73
1:5:345:ASP:OD1	1:5:346:SER:N	2.20	0.73
1:Q:474:SER:OG	1:k:518:ASN:ND2	2.14	0.73
1:T:483:TYR:H	1:T:523:MET:HE1	1.53	0.73
1:h:483:TYR:H	1:h:523:MET:HE1	1.53	0.73
1:m:483:TYR:H	1:m:523:MET:HE1	1.53	0.73
1:o:483:TYR:H	1:o:523:MET:HE1	1.53	0.73
1:v:483:TYR:H	1:v:523:MET:HE1	1.53	0.73
1:H:345:ASP:OD1	1:H:346:SER:N	2.20	0.73
1:M:483:TYR:H	1:M:523:MET:HE1	1.53	0.73
1:X:234:TRP:CH2	1:X:298[B]:ARG:HB3	2.23	0.73
1:y:234:TRP:CD2	1:y:298[B]:ARG:HD3	2.24	0.73
1:A:483:TYR:H	1:A:523:MET:HE1	1.53	0.73
1:F:345:ASP:OD1	1:F:346:SER:N	2.20	0.73
1:X:483:TYR:H	1:X:523:MET:HE1	1.53	0.73
1:O:483:TYR:H	1:O:523:MET:HE1	1.53	0.73
1:B:483:TYR:H	1:B:523:MET:HE1	1.53	0.73
1:U:234:TRP:CE2	1:U:298[B]:ARG:HD3	2.24	0.73
1:l:345:ASP:OD1	1:l:346:SER:N	2.20	0.73
1:6:483:TYR:H	1:6:523:MET:HE1	1.53	0.73
1:N:234:TRP:CZ2	1:N:298[B]:ARG:HB3	2.24	0.73
1:W:483:TYR:H	1:W:523:MET:HE1	1.53	0.73
1:q:483:TYR:H	1:q:523:MET:HE1	1.53	0.73
1:y:345:ASP:OD1	1:y:346:SER:N	2.20	0.73
1:I:483:TYR:H	1:I:523:MET:HE1	1.53	0.73
1:J:483:TYR:H	1:J:523:MET:HE1	1.53	0.73
1:L:234:TRP:CE2	1:L:298[B]:ARG:HD3	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:345:ASP:OD1	1:O:346:SER:N	2.20	0.73
1:3:234:TRP:CE2	1:3:298[B]:ARG:HD3	2.23	0.73
1:F:483:TYR:H	1:F:523:MET:HE1	1.53	0.72
1:Y:234:TRP:CZ2	1:Y:298[B]:ARG:HB3	2.24	0.72
1:l:483:TYR:H	1:l:523:MET:HE1	1.53	0.72
1:s:483:TYR:H	1:s:523:MET:HE1	1.53	0.72
1:1:483:TYR:H	1:1:523:MET:HE1	1.53	0.72
1:P:483:TYR:H	1:P:523:MET:HE1	1.53	0.72
1:R:483:TYR:H	1:R:523:MET:HE1	1.53	0.72
1:b:345:ASP:OD1	1:b:346:SER:N	2.20	0.72
1:g:345:ASP:OD1	1:g:346:SER:N	2.20	0.72
1:u:483:TYR:H	1:u:523:MET:HE1	1.53	0.72
1:x:483:TYR:H	1:x:523:MET:HE1	1.53	0.72
1:y:483:TYR:H	1:y:523:MET:HE1	1.53	0.72
1:2:483:TYR:H	1:2:523:MET:HE1	1.53	0.72
1:C:345:ASP:OD1	1:C:346:SER:N	2.20	0.72
1:Q:483:TYR:H	1:Q:523:MET:HE1	1.53	0.72
1:k:483:TYR:H	1:k:523:MET:HE1	1.53	0.72
1:U:483:TYR:H	1:U:523:MET:HE1	1.53	0.72
1:j:483:TYR:H	1:j:523:MET:HE1	1.53	0.72
1:6:345:ASP:OD1	1:6:346:SER:N	2.20	0.72
1:D:483:TYR:H	1:D:523:MET:HE1	1.53	0.72
1:W:345:ASP:OD1	1:W:346:SER:N	2.20	0.72
1:f:345:ASP:OD1	1:f:346:SER:N	2.20	0.72
1:Q:345:ASP:OD1	1:Q:346:SER:N	2.20	0.72
1:Y:483:TYR:H	1:Y:523:MET:HE1	1.53	0.72
1:v:234:TRP:CD2	1:v:298[B]:ARG:HD3	2.24	0.72
1:S:345:ASP:OD1	1:S:346:SER:N	2.20	0.72
1:R:518:ASN:HB3	1:R:519:PRO:HD3	1.72	0.72
1:Z:483:TYR:H	1:Z:523:MET:HE1	1.53	0.72
1:7:483:TYR:H	1:7:523:MET:HE1	1.53	0.72
1:E:345:ASP:OD1	1:E:346:SER:N	2.20	0.72
1:K:518:ASN:HB3	1:K:519:PRO:HD3	1.72	0.72
1:l:234:TRP:CE2	1:l:298[A]:ARG:HD2	2.25	0.72
1:x:345:ASP:OD1	1:x:346:SER:N	2.20	0.72
1:4:518:ASN:HB3	1:4:519:PRO:HD3	1.72	0.72
1:8:234:TRP:CE2	1:8:298[A]:ARG:HD2	2.25	0.72
1:M:518:ASN:HB3	1:M:519:PRO:HD3	1.72	0.72
1:q:518:ASN:HB3	1:q:519:PRO:HD3	1.72	0.72
1:r:345:ASP:OD1	1:r:346:SER:N	2.20	0.72
1:F:518:ASN:HB3	1:F:519:PRO:HD3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:483:TYR:H	1:G:523:MET:HE1	1.53	0.71
1:w:518:ASN:HB3	1:w:519:PRO:HD3	1.72	0.71
1:y:518:ASN:HB3	1:y:519:PRO:HD3	1.72	0.71
1:8:483:TYR:H	1:8:523:MET:HE1	1.53	0.71
1:B:518:ASN:HB3	1:B:519:PRO:HD3	1.72	0.71
1:E:483:TYR:H	1:E:523:MET:HE1	1.53	0.71
1:a:345:ASP:OD1	1:a:346:SER:N	2.20	0.71
1:a:518:ASN:HB3	1:a:519:PRO:HD3	1.72	0.71
1:c:518:ASN:HB3	1:c:519:PRO:HD3	1.72	0.71
1:e:518:ASN:HB3	1:e:519:PRO:HD3	1.72	0.71
1:h:518:ASN:HB3	1:h:519:PRO:HD3	1.72	0.71
1:w:483:TYR:H	1:w:523:MET:HE1	1.53	0.71
1:3:345:ASP:OD1	1:3:346:SER:N	2.20	0.71
1:4:483:TYR:H	1:4:523:MET:HE1	1.53	0.71
1:E:518:ASN:HB3	1:E:519:PRO:HD3	1.72	0.71
1:T:518:ASN:HB3	1:T:519:PRO:HD3	1.72	0.71
1:l:518:ASN:HB3	1:l:519:PRO:HD3	1.72	0.71
1:m:518:ASN:HB3	1:m:519:PRO:HD3	1.72	0.71
1:t:483:TYR:H	1:t:523:MET:HE1	1.53	0.71
1:w:345:ASP:OD1	1:w:346:SER:N	2.20	0.71
1:1:518:ASN:HB3	1:1:519:PRO:HD3	1.72	0.71
1:H:483:TYR:H	1:H:523:MET:HE1	1.53	0.71
1:P:518:ASN:HB3	1:P:519:PRO:HD3	1.72	0.71
1:n:234:TRP:CH2	1:n:298[B]:ARG:HB3	2.24	0.71
1:3:234:TRP:CH2	1:3:298[B]:ARG:HB3	2.24	0.71
1:5:483:TYR:H	1:5:523:MET:HE1	1.53	0.71
1:K:483:TYR:H	1:K:523:MET:HE1	1.53	0.71
1:L:483:TYR:H	1:L:523:MET:HE1	1.53	0.71
1:O:518:ASN:HB3	1:O:519:PRO:HD3	1.72	0.71
1:j:518:ASN:HB3	1:j:519:PRO:HD3	1.72	0.71
1:r:518:ASN:HB3	1:r:519:PRO:HD3	1.72	0.71
1:t:518:ASN:HB3	1:t:519:PRO:HD3	1.72	0.71
1:3:518:ASN:HB3	1:3:519:PRO:HD3	1.72	0.71
1:C:518:ASN:HB3	1:C:519:PRO:HD3	1.72	0.71
1:Q:518:ASN:HB3	1:Q:519:PRO:HD3	1.72	0.71
1:S:518:ASN:HB3	1:S:519:PRO:HD3	1.72	0.71
1:e:234:TRP:CZ2	1:e:298[B]:ARG:HB3	2.26	0.71
1:g:518:ASN:HB3	1:g:519:PRO:HD3	1.72	0.71
1:d:518:ASN:HB3	1:d:519:PRO:HD3	1.72	0.71
1:n:518:ASN:HB3	1:n:519:PRO:HD3	1.72	0.71
1:s:518:ASN:HB3	1:s:519:PRO:HD3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:483:TYR:H	1:z:523:MET:HE1	1.53	0.71
1:D:518:ASN:HB3	1:D:519:PRO:HD3	1.72	0.71
1:G:518:ASN:HB3	1:G:519:PRO:HD3	1.72	0.71
1:I:518:ASN:HB3	1:I:519:PRO:HD3	1.72	0.71
1:U:518:ASN:HB3	1:U:519:PRO:HD3	1.72	0.71
1:q:234:TRP:CH2	1:q:298[A]:ARG:HB2	2.26	0.71
1:u:518:ASN:HB3	1:u:519:PRO:HD3	1.72	0.71
1:x:518:ASN:HB3	1:x:519:PRO:HD3	1.72	0.71
1:W:518:ASN:HB3	1:W:519:PRO:HD3	1.72	0.71
1:i:518:ASN:HB3	1:i:519:PRO:HD3	1.72	0.71
1:k:518:ASN:HB3	1:k:519:PRO:HD3	1.72	0.71
1:z:518:ASN:HB3	1:z:519:PRO:HD3	1.72	0.71
1:6:518:ASN:HB3	1:6:519:PRO:HD3	1.72	0.71
1:L:234:TRP:CH2	1:L:298[B]:ARG:HB3	2.26	0.71
1:L:345:ASP:OD1	1:L:346:SER:N	2.20	0.71
1:L:518:ASN:HB3	1:L:519:PRO:HD3	1.72	0.71
1:N:518:ASN:HB3	1:N:519:PRO:HD3	1.72	0.71
1:Y:518:ASN:HB3	1:Y:519:PRO:HD3	1.72	0.71
1:c:483:TYR:H	1:c:523:MET:HE1	1.53	0.71
1:e:483:TYR:H	1:e:523:MET:HE1	1.53	0.71
1:w:234:TRP:CD2	1:w:298[B]:ARG:HD3	2.25	0.71
1:7:518:ASN:HB3	1:7:519:PRO:HD3	1.72	0.71
1:b:234:TRP:CZ2	1:b:298[B]:ARG:HB3	2.26	0.70
1:z:345:ASP:OD1	1:z:346:SER:N	2.20	0.70
1:V:353:VAL:H	1:V:645:GLN:HE22	1.40	0.70
1:8:234:TRP:CG	1:8:298[B]:ARG:HE	2.09	0.70
1:C:353:VAL:H	1:C:645:GLN:HE22	1.40	0.70
1:J:353:VAL:H	1:J:645:GLN:HE22	1.40	0.70
1:t:234:TRP:CD2	1:t:298[B]:ARG:HD3	2.25	0.70
1:H:518:ASN:HB3	1:H:519:PRO:HD3	1.72	0.70
1:X:353:VAL:H	1:X:645:GLN:HE22	1.40	0.70
1:l:353:VAL:H	1:l:645:GLN:HE22	1.40	0.70
1:p:353:VAL:H	1:p:645:GLN:HE22	1.40	0.70
1:2:353:VAL:H	1:2:645:GLN:HE22	1.40	0.70
1:g:353:VAL:H	1:g:645:GLN:HE22	1.40	0.70
1:o:353:VAL:H	1:o:645:GLN:HE22	1.40	0.70
1:q:353:VAL:H	1:q:645:GLN:HE22	1.40	0.70
1:5:518:ASN:HB3	1:5:519:PRO:HD3	1.72	0.70
1:8:234:TRP:CZ2	1:8:298[B]:ARG:HB3	2.26	0.70
1:J:518:ASN:HB3	1:J:519:PRO:HD3	1.72	0.70
1:O:353:VAL:H	1:O:645:GLN:HE22	1.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:353:VAL:H	1:R:645:GLN:HE22	1.40	0.70
1:S:353:VAL:H	1:S:645:GLN:HE22	1.40	0.70
1:2:518:ASN:HB3	1:2:519:PRO:HD3	1.72	0.70
1:U:234:TRP:CH2	1:U:298[B]:ARG:HB3	2.26	0.70
1:V:518:ASN:HB3	1:V:519:PRO:HD3	1.72	0.70
1:l:234:TRP:CG	1:l:298[B]:ARG:HE	2.09	0.70
1:l:234:TRP:CZ2	1:l:298[B]:ARG:HB3	2.26	0.70
1:p:518:ASN:HB3	1:p:519:PRO:HD3	1.72	0.70
1:1:234:TRP:CH2	1:1:298[A]:ARG:HB2	2.26	0.70
1:y:353:VAL:H	1:y:645:GLN:HE22	1.40	0.70
1:h:353:VAL:H	1:h:645:GLN:HE22	1.40	0.70
1:l:234:TRP:CZ2	1:l:298[A]:ARG:HB2	2.27	0.70
1:r:353:VAL:H	1:r:645:GLN:HE22	1.40	0.70
1:A:518:ASN:HB3	1:A:519:PRO:HD3	1.72	0.69
1:F:353:VAL:H	1:F:645:GLN:HE22	1.40	0.69
1:L:234:TRP:CH2	1:L:298[A]:ARG:HB2	2.27	0.69
1:M:353:VAL:H	1:M:645:GLN:HE22	1.40	0.69
1:X:518:ASN:HB3	1:X:519:PRO:HD3	1.72	0.69
1:b:518:ASN:HB3	1:b:519:PRO:HD3	1.72	0.69
1:o:518:ASN:HB3	1:o:519:PRO:HD3	1.72	0.69
1:u:234:TRP:CD2	1:u:298[B]:ARG:HD3	2.27	0.69
1:x:234:TRP:CD2	1:x:298[B]:ARG:HD3	2.27	0.69
1:8:234:TRP:CZ2	1:8:298[A]:ARG:HB2	2.27	0.69
1:Z:518:ASN:HB3	1:Z:519:PRO:HD3	1.72	0.69
1:f:518:ASN:HB3	1:f:519:PRO:HD3	1.72	0.69
1:v:518:ASN:HB3	1:v:519:PRO:HD3	1.72	0.69
1:8:518:ASN:HB3	1:8:519:PRO:HD3	1.72	0.69
1:r:234:TRP:CD2	1:r:298[B]:ARG:HD3	2.28	0.69
1:Q:353:VAL:H	1:Q:645:GLN:HE22	1.40	0.69
1:i:353:VAL:H	1:i:645:GLN:HE22	1.40	0.69
1:U:234:TRP:CH2	1:U:298[A]:ARG:HB2	2.27	0.69
1:x:353:VAL:H	1:x:645:GLN:HE22	1.40	0.69
1:N:353:VAL:H	1:N:645:GLN:HE22	1.40	0.69
1:3:353:VAL:H	1:3:645:GLN:HE22	1.40	0.69
1:a:353:VAL:H	1:a:645:GLN:HE22	1.40	0.69
1:j:353:VAL:H	1:j:645:GLN:HE22	1.40	0.69
1:t:353:VAL:H	1:t:645:GLN:HE22	1.40	0.69
1:2:234:TRP:CD2	1:2:298[B]:ARG:HD3	2.28	0.69
1:G:353:VAL:H	1:G:645:GLN:HE22	1.40	0.69
1:N:234:TRP:CZ2	1:N:298[A]:ARG:HB2	2.27	0.69
1:P:353:VAL:H	1:P:645:GLN:HE22	1.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:353:VAL:H	1:T:645:GLN:HE22	1.40	0.69
1:1:353:VAL:H	1:1:645:GLN:HE22	1.40	0.69
1:8:353:VAL:H	1:8:645:GLN:HE22	1.40	0.69
1:Y:234:TRP:CZ2	1:Y:298[A]:ARG:HB2	2.27	0.68
1:f:526:HIS:HE1	1:f:563:GLU:HB3	1.58	0.68
1:m:353:VAL:H	1:m:645:GLN:HE22	1.40	0.68
1:B:353:VAL:H	1:B:645:GLN:HE22	1.40	0.68
1:v:353:VAL:H	1:v:645:GLN:HE22	1.40	0.68
1:Q:234:TRP:CH2	1:Q:298[B]:ARG:HB3	2.29	0.68
1:Z:353:VAL:H	1:Z:645:GLN:HE22	1.40	0.68
1:K:353:VAL:H	1:K:645:GLN:HE22	1.40	0.68
1:7:353:VAL:H	1:7:645:GLN:HE22	1.40	0.68
1:A:353:VAL:H	1:A:645:GLN:HE22	1.40	0.68
1:I:353:VAL:H	1:I:645:GLN:HE22	1.40	0.68
1:b:526:HIS:HE1	1:b:563:GLU:HB3	1.59	0.68
1:n:353:VAL:H	1:n:645:GLN:HE22	1.40	0.68
1:5:526:HIS:HE1	1:5:563:GLU:HB3	1.59	0.68
1:H:526:HIS:HE1	1:H:563:GLU:HB3	1.59	0.68
1:d:353:VAL:H	1:d:645:GLN:HE22	1.40	0.68
1:d:526:HIS:HE1	1:d:563:GLU:HB3	1.59	0.68
1:n:526:HIS:HE1	1:n:563:GLU:HB3	1.59	0.68
1:p:234:TRP:CH2	1:p:298[B]:ARG:HB3	2.28	0.68
1:4:353:VAL:H	1:4:645:GLN:HE22	1.40	0.68
1:I:234:TRP:CH2	1:I:298[B]:ARG:HB3	2.29	0.68
1:Y:353:VAL:H	1:Y:645:GLN:HE22	1.40	0.68
1:u:353:VAL:H	1:u:645:GLN:HE22	1.40	0.68
1:6:526:HIS:HE1	1:6:563:GLU:HB3	1.59	0.68
1:O:526:HIS:HE1	1:O:563:GLU:HB3	1.59	0.68
1:W:526:HIS:HE1	1:W:563:GLU:HB3	1.59	0.68
1:g:234:TRP:CH2	1:g:298[B]:ARG:HB3	2.28	0.68
1:l:526:HIS:HE1	1:l:563:GLU:HB3	1.59	0.68
1:y:526:HIS:HE1	1:y:563:GLU:HB3	1.59	0.68
1:g:526:HIS:HE1	1:g:563:GLU:HB3	1.59	0.68
1:6:353:VAL:H	1:6:645:GLN:HE22	1.40	0.68
1:S:526:HIS:HE1	1:S:563:GLU:HB3	1.59	0.68
1:W:353:VAL:H	1:W:645:GLN:HE22	1.40	0.68
1:c:353:VAL:H	1:c:645:GLN:HE22	1.40	0.68
1:f:353:VAL:H	1:f:645:GLN:HE22	1.40	0.67
1:r:526:HIS:HE1	1:r:563:GLU:HB3	1.59	0.67
1:v:526:HIS:HE1	1:v:563:GLU:HB3	1.59	0.67
1:A:526:HIS:HE1	1:A:563:GLU:HB3	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:526:HIS:HE1	1:F:563:GLU:HB3	1.59	0.67
1:C:526:HIS:HE1	1:C:563:GLU:HB3	1.59	0.67
1:e:353:VAL:H	1:e:645:GLN:HE22	1.40	0.67
1:D:353:VAL:H	1:D:645:GLN:HE22	1.40	0.67
1:b:353:VAL:H	1:b:645:GLN:HE22	1.40	0.67
1:z:353:VAL:H	1:z:645:GLN:HE22	1.40	0.67
1:E:526:HIS:HE1	1:E:563:GLU:HB3	1.59	0.67
1:I:526:HIS:HE1	1:I:563:GLU:HB3	1.59	0.67
1:L:353:VAL:H	1:L:645:GLN:HE22	1.40	0.67
1:U:353:VAL:H	1:U:645:GLN:HE22	1.40	0.67
1:w:526:HIS:HE1	1:w:563:GLU:HB3	1.58	0.67
1:4:526:HIS:HE1	1:4:563:GLU:HB3	1.59	0.67
1:L:526:HIS:HE1	1:L:563:GLU:HB3	1.59	0.67
1:M:526:HIS:HE1	1:M:563:GLU:HB3	1.59	0.67
1:Y:526:HIS:HE1	1:Y:563:GLU:HB3	1.59	0.67
1:a:526:HIS:HE1	1:a:563:GLU:HB3	1.59	0.67
1:3:526:HIS:HE1	1:3:563:GLU:HB3	1.59	0.67
1:7:526:HIS:HE1	1:7:563:GLU:HB3	1.59	0.67
1:V:526:HIS:HE1	1:V:563:GLU:HB3	1.59	0.67
1:k:353:VAL:H	1:k:645:GLN:HE22	1.40	0.67
1:o:234:TRP:CD2	1:o:298[B]:ARG:HD3	2.30	0.67
1:w:353:VAL:H	1:w:645:GLN:HE22	1.40	0.67
1:6:234:TRP:CE2	1:6:298[A]:ARG:HD2	2.29	0.67
1:B:526:HIS:HE1	1:B:563:GLU:HB3	1.59	0.67
1:E:353:VAL:H	1:E:645:GLN:HE22	1.40	0.67
1:K:526:HIS:HE1	1:K:563:GLU:HB3	1.59	0.67
1:s:353:VAL:H	1:s:645:GLN:HE22	1.40	0.67
1:u:526:HIS:HE1	1:u:563:GLU:HB3	1.59	0.67
1:z:526:HIS:HE1	1:z:563:GLU:HB3	1.59	0.67
1:c:526:HIS:HE1	1:c:563:GLU:HB3	1.59	0.67
1:h:526:HIS:HE1	1:h:563:GLU:HB3	1.59	0.67
1:k:234:TRP:CE2	1:k:298[A]:ARG:HD2	2.29	0.67
1:p:526:HIS:HE1	1:p:563:GLU:HB3	1.59	0.67
1:x:234:TRP:CE3	1:x:298[B]:ARG:HD3	2.30	0.67
1:L:234:TRP:CZ2	1:L:298[A]:ARG:HB2	2.30	0.67
1:1:526:HIS:HE1	1:1:563:GLU:HB3	1.59	0.67
1:D:526:HIS:HE1	1:D:563:GLU:HB3	1.59	0.66
1:G:526:HIS:HE1	1:G:563:GLU:HB3	1.59	0.66
1:U:234:TRP:CZ2	1:U:298[A]:ARG:HB2	2.30	0.66
1:U:234:TRP:CG	1:U:298[B]:ARG:HE	2.13	0.66
1:e:526:HIS:HE1	1:e:563:GLU:HB3	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:526:HIS:HE1	1:k:563:GLU:HB3	1.59	0.66
1:J:526:HIS:HE1	1:J:563:GLU:HB3	1.59	0.66
1:h:234:TRP:CD2	1:h:298[B]:ARG:HD3	2.30	0.66
1:u:234:TRP:CE3	1:u:298[B]:ARG:HD3	2.30	0.66
1:H:353:VAL:H	1:H:645:GLN:HE22	1.40	0.66
1:m:526:HIS:HE1	1:m:563:GLU:HB3	1.59	0.66
1:2:526:HIS:HE1	1:2:563:GLU:HB3	1.59	0.66
1:3:229[B]:HIS:CD2	1:3:242:THR:HG21	2.30	0.66
1:5:353:VAL:H	1:5:645:GLN:HE22	1.40	0.66
1:X:526:HIS:HE1	1:X:563:GLU:HB3	1.59	0.66
1:L:234:TRP:CG	1:L:298[B]:ARG:HE	2.13	0.66
1:n:229[B]:HIS:CD2	1:n:242:THR:HG21	2.30	0.66
1:r:234:TRP:CE3	1:r:298[B]:ARG:HD3	2.31	0.66
1:I:234:TRP:CZ2	1:I:298[B]:ARG:HB3	2.30	0.66
1:Q:526:HIS:HE1	1:Q:563:GLU:HB3	1.59	0.66
1:o:526:HIS:HE1	1:o:563:GLU:HB3	1.59	0.66
1:L:234:TRP:CZ2	1:L:298[B]:ARG:HB3	2.30	0.65
1:N:526:HIS:HE1	1:N:563:GLU:HB3	1.59	0.65
1:T:526:HIS:HE1	1:T:563:GLU:HB3	1.59	0.65
1:1:234:TRP:CH2	1:1:298[B]:ARG:HB3	2.31	0.65
1:j:234:TRP:CD2	1:j:298[B]:ARG:HD3	2.31	0.65
1:q:526:HIS:HE1	1:q:563:GLU:HB3	1.59	0.65
1:x:526:HIS:HE1	1:x:563:GLU:HB3	1.59	0.65
1:2:234:TRP:CE3	1:2:298[B]:ARG:HD3	2.31	0.65
1:i:526:HIS:HE1	1:i:563:GLU:HB3	1.59	0.65
1:5:234:TRP:CD2	1:5:298[B]:ARG:HD3	2.31	0.65
1:E:398:PHE:HE1	1:i:692:LYS:HG3	1.61	0.65
1:Q:234:TRP:CZ2	1:Q:298[B]:ARG:HB3	2.31	0.65
1:j:526:HIS:HE1	1:j:563:GLU:HB3	1.59	0.65
1:l:234:TRP:CH2	1:l:298[A]:ARG:HB2	2.31	0.65
1:q:234:TRP:CH2	1:q:298[B]:ARG:HB3	2.31	0.65
1:8:234:TRP:CH2	1:8:298[A]:ARG:HB2	2.31	0.65
1:R:526:HIS:HE1	1:R:563:GLU:HB3	1.59	0.65
1:k:234:TRP:CH2	1:k:298[A]:ARG:HB2	2.31	0.65
1:J:398:PHE:HE1	1:s:692:LYS:HG3	1.61	0.65
1:6:234:TRP:CH2	1:6:298[A]:ARG:HB2	2.31	0.65
1:B:398:PHE:HE1	1:2:692:LYS:HG3	1.61	0.65
1:q:692:LYS:HG3	1:z:398:PHE:HE1	1.62	0.65
1:C:398:PHE:HE1	1:t:692:LYS:HG3	1.62	0.65
1:P:526:HIS:HE1	1:P:563:GLU:HB3	1.59	0.65
1:S:398:PHE:HE1	1:z:692:LYS:HG3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:234:TRP:CZ2	1:U:298[B]:ARG:HB3	2.31	0.65
1:U:526:HIS:HE1	1:U:563:GLU:HB3	1.59	0.65
1:Z:526:HIS:HE1	1:Z:563:GLU:HB3	1.58	0.65
1:h:398:PHE:HE1	1:5:692:LYS:HG3	1.62	0.65
1:N:398:PHE:HE1	1:V:692:LYS:HG3	1.62	0.64
1:W:398:PHE:HE1	1:u:692:LYS:HG3	1.62	0.64
1:d:496:ASN:OD1	1:d:497:ASN:N	2.31	0.64
1:s:526:HIS:HE1	1:s:563:GLU:HB3	1.59	0.64
1:7:496:ASN:OD1	1:7:497:ASN:N	2.31	0.64
1:G:398:PHE:HE1	1:7:692:LYS:HG3	1.61	0.64
1:Y:496:ASN:OD1	1:Y:497:ASN:N	2.31	0.64
1:b:234:TRP:CZ2	1:b:298[A]:ARG:HB2	2.33	0.64
1:i:496:ASN:OD1	1:i:497:ASN:N	2.31	0.64
1:n:496:ASN:OD1	1:n:497:ASN:N	2.31	0.64
1:q:496:ASN:OD1	1:q:497:ASN:N	2.31	0.64
1:A:398:PHE:HE1	1:f:692:LYS:HG3	1.62	0.64
1:N:496:ASN:OD1	1:N:497:ASN:N	2.31	0.64
1:R:496:ASN:OD1	1:R:497:ASN:N	2.31	0.64
1:V:398:PHE:HE1	1:w:692:LYS:HG3	1.62	0.64
1:j:398:PHE:HE1	1:4:692:LYS:HG3	1.63	0.64
1:o:692:LYS:HG3	1:4:398:PHE:HE1	1.62	0.64
1:w:496:ASN:OD1	1:w:497:ASN:N	2.31	0.64
1:8:234:TRP:HE1	1:8:298[A]:ARG:HH11	1.46	0.64
1:A:496:ASN:OD1	1:A:497:ASN:N	2.31	0.64
1:E:496:ASN:OD1	1:E:497:ASN:N	2.31	0.64
1:F:398:PHE:HE1	1:c:692:LYS:HG3	1.62	0.64
1:I:234:TRP:CZ2	1:I:298[A]:ARG:HB2	2.32	0.64
1:M:229[B]:HIS:CD2	1:M:242:THR:HG21	2.32	0.64
1:R:398:PHE:HE1	1:r:692:LYS:HG3	1.61	0.64
1:j:496:ASN:OD1	1:j:497:ASN:N	2.31	0.64
1:I:287:PHE:HB2	1:I:613:LEU:O	1.98	0.64
1:P:496:ASN:OD1	1:P:497:ASN:N	2.31	0.64
1:X:287:PHE:HB2	1:X:613:LEU:O	1.98	0.64
1:a:496:ASN:OD1	1:a:497:ASN:N	2.31	0.64
1:j:692:LYS:HG3	1:o:398:PHE:HE1	1.62	0.64
1:o:287:PHE:HB2	1:o:613:LEU:O	1.98	0.64
1:u:287:PHE:HB2	1:u:613:LEU:O	1.98	0.64
1:v:496:ASN:OD1	1:v:497:ASN:N	2.31	0.64
1:8:526:HIS:HE1	1:8:563:GLU:HB3	1.59	0.64
1:A:287:PHE:HB2	1:A:613:LEU:O	1.98	0.64
1:D:496:ASN:OD1	1:D:497:ASN:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:287:PHE:HB2	1:F:613:LEU:O	1.98	0.64
1:I:496:ASN:OD1	1:I:497:ASN:N	2.31	0.64
1:M:496:ASN:OD1	1:M:497:ASN:N	2.31	0.64
1:N:287:PHE:HB2	1:N:613:LEU:O	1.98	0.64
1:c:496:ASN:OD1	1:c:497:ASN:N	2.31	0.64
1:k:496:ASN:OD1	1:k:497:ASN:N	2.31	0.64
1:u:496:ASN:OD1	1:u:497:ASN:N	2.31	0.64
1:3:496:ASN:OD1	1:3:497:ASN:N	2.31	0.64
1:5:496:ASN:OD1	1:5:497:ASN:N	2.31	0.64
1:H:496:ASN:OD1	1:H:497:ASN:N	2.31	0.64
1:K:692:LYS:HG3	1:P:398:PHE:HE1	1.63	0.64
1:O:496:ASN:OD1	1:O:497:ASN:N	2.31	0.64
1:P:482:CYS:SG	1:P:576:TYR:HB2	2.38	0.64
1:Q:398:PHE:HE1	1:Z:692:LYS:HG3	1.63	0.64
1:T:496:ASN:OD1	1:T:497:ASN:N	2.31	0.64
1:V:287:PHE:HB2	1:V:613:LEU:O	1.98	0.64
1:V:496:ASN:OD1	1:V:497:ASN:N	2.31	0.64
1:X:229[B]:HIS:CD2	1:X:242:THR:HG21	2.32	0.64
1:e:496:ASN:OD1	1:e:497:ASN:N	2.31	0.64
1:h:496:ASN:OD1	1:h:497:ASN:N	2.31	0.64
1:j:482:CYS:SG	1:j:576:TYR:HB2	2.38	0.64
1:l:496:ASN:OD1	1:l:497:ASN:N	2.31	0.64
1:m:496:ASN:OD1	1:m:497:ASN:N	2.31	0.64
1:p:234:TRP:CE2	1:p:298[B]:ARG:HD3	2.33	0.64
1:v:287:PHE:HB2	1:v:613:LEU:O	1.98	0.64
1:y:287:PHE:HB2	1:y:613:LEU:O	1.98	0.64
1:D:287:PHE:HB2	1:D:613:LEU:O	1.98	0.64
1:H:398:PHE:HE1	1:T:692:LYS:HG3	1.63	0.64
1:J:692:LYS:HG3	1:1:398:PHE:HE1	1.63	0.64
1:K:496:ASN:OD1	1:K:497:ASN:N	2.31	0.64
1:R:287:PHE:HB2	1:R:613:LEU:O	1.98	0.64
1:i:287:PHE:HB2	1:i:613:LEU:O	1.98	0.64
1:k:234:TRP:CE2	1:k:298[B]:ARG:HD3	2.33	0.64
1:p:287:PHE:HB2	1:p:613:LEU:O	1.98	0.64
1:p:496:ASN:OD1	1:p:497:ASN:N	2.31	0.64
1:4:496:ASN:OD1	1:4:497:ASN:N	2.31	0.64
1:8:482:CYS:SG	1:8:576:TYR:HB2	2.38	0.64
1:C:496:ASN:OD1	1:C:497:ASN:N	2.31	0.64
1:F:496:ASN:OD1	1:F:497:ASN:N	2.31	0.64
1:H:692:LYS:HG3	1:M:398:PHE:HE1	1.63	0.64
1:K:398:PHE:HE1	1:X:692:LYS:HG3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:398:PHE:HE1	1:R:692:LYS:HG3	1.63	0.64
1:Q:287:PHE:HB2	1:Q:613:LEU:O	1.98	0.64
1:R:482:CYS:SG	1:R:576:TYR:HB2	2.38	0.64
1:S:482:CYS:SG	1:S:576:TYR:HB2	2.38	0.64
1:V:482:CYS:SG	1:V:576:TYR:HB2	2.38	0.64
1:W:496:ASN:OD1	1:W:497:ASN:N	2.31	0.64
1:Z:482:CYS:SG	1:Z:576:TYR:HB2	2.38	0.64
1:a:287:PHE:HB2	1:a:613:LEU:O	1.98	0.64
1:k:287:PHE:HB2	1:k:613:LEU:O	1.98	0.64
1:p:482:CYS:SG	1:p:576:TYR:HB2	2.38	0.64
1:q:287:PHE:HB2	1:q:613:LEU:O	1.98	0.64
1:r:482:CYS:SG	1:r:576:TYR:HB2	2.38	0.64
1:s:482:CYS:SG	1:s:576:TYR:HB2	2.38	0.64
1:t:482:CYS:SG	1:t:576:TYR:HB2	2.38	0.64
1:x:496:ASN:OD1	1:x:497:ASN:N	2.31	0.64
1:3:287:PHE:HB2	1:3:613:LEU:O	1.98	0.64
1:6:496:ASN:OD1	1:6:497:ASN:N	2.31	0.64
1:G:482:CYS:SG	1:G:576:TYR:HB2	2.38	0.64
1:Q:496:ASN:OD1	1:Q:497:ASN:N	2.31	0.64
1:U:482:CYS:SG	1:U:576:TYR:HB2	2.38	0.64
1:Y:287:PHE:HB2	1:Y:613:LEU:O	1.98	0.64
1:a:398:PHE:HE1	1:y:692:LYS:HG3	1.62	0.64
1:b:398:PHE:HE1	1:d:692:LYS:HG3	1.62	0.64
1:g:496:ASN:OD1	1:g:497:ASN:N	2.31	0.64
1:7:287:PHE:HB2	1:7:613:LEU:O	1.98	0.64
1:8:496:ASN:OD1	1:8:497:ASN:N	2.31	0.64
1:B:287:PHE:HB2	1:B:613:LEU:O	1.98	0.63
1:D:482:CYS:SG	1:D:576:TYR:HB2	2.38	0.63
1:M:482:CYS:SG	1:M:576:TYR:HB2	2.38	0.63
1:U:496:ASN:OD1	1:U:497:ASN:N	2.31	0.63
1:a:692:LYS:HG3	1:e:398:PHE:HE1	1.62	0.63
1:e:234:TRP:CZ2	1:e:298[A]:ARG:HB2	2.33	0.63
1:h:692:LYS:HG3	1:m:398:PHE:HE1	1.62	0.63
1:j:287:PHE:HB2	1:j:613:LEU:O	1.98	0.63
1:k:482:CYS:SG	1:k:576:TYR:HB2	2.38	0.63
1:l:482:CYS:SG	1:l:576:TYR:HB2	2.38	0.63
1:q:482:CYS:SG	1:q:576:TYR:HB2	2.38	0.63
1:s:398:PHE:HE1	1:1:692:LYS:HG3	1.62	0.63
1:x:287:PHE:HB2	1:x:613:LEU:O	1.98	0.63
1:x:482:CYS:SG	1:x:576:TYR:HB2	2.38	0.63
1:y:496:ASN:OD1	1:y:497:ASN:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:496:ASN:OD1	1:z:497:ASN:N	2.31	0.63
1:8:234:TRP:CH2	1:8:298[B]:ARG:HB3	2.33	0.63
1:8:287:PHE:HB2	1:8:613:LEU:O	1.98	0.63
1:L:287:PHE:HB2	1:L:613:LEU:O	1.98	0.63
1:L:496:ASN:OD1	1:L:497:ASN:N	2.31	0.63
1:O:482:CYS:SG	1:O:576:TYR:HB2	2.38	0.63
1:P:287:PHE:HB2	1:P:613:LEU:O	1.98	0.63
1:Z:496:ASN:OD1	1:Z:497:ASN:N	2.31	0.63
1:h:482:CYS:SG	1:h:576:TYR:HB2	2.38	0.63
1:o:496:ASN:OD1	1:o:497:ASN:N	2.31	0.63
1:s:287:PHE:HB2	1:s:613:LEU:O	1.98	0.63
1:y:234:TRP:CH2	1:y:298[A]:ARG:HB2	2.33	0.63
1:1:482:CYS:SG	1:1:576:TYR:HB2	2.38	0.63
1:2:496:ASN:OD1	1:2:497:ASN:N	2.31	0.63
1:6:234:TRP:CE2	1:6:298[B]:ARG:HD3	2.33	0.63
1:J:496:ASN:OD1	1:J:497:ASN:N	2.31	0.63
1:K:234:TRP:CD2	1:K:298[B]:ARG:HD3	2.33	0.63
1:O:398:PHE:HE1	1:6:692:LYS:HG3	1.62	0.63
1:Q:482:CYS:SG	1:Q:576:TYR:HB2	2.38	0.63
1:U:287:PHE:HB2	1:U:613:LEU:O	1.98	0.63
1:X:496:ASN:OD1	1:X:497:ASN:N	2.31	0.63
1:Z:287:PHE:HB2	1:Z:613:LEU:O	1.98	0.63
1:m:692:LYS:HG3	1:5:398:PHE:HE1	1.63	0.63
1:s:496:ASN:OD1	1:s:497:ASN:N	2.31	0.63
1:u:482:CYS:SG	1:u:576:TYR:HB2	2.38	0.63
1:1:287:PHE:HB2	1:1:613:LEU:O	1.98	0.63
1:B:482:CYS:SG	1:B:576:TYR:HB2	2.38	0.63
1:C:287:PHE:HB2	1:C:613:LEU:O	1.98	0.63
1:I:482:CYS:SG	1:I:576:TYR:HB2	2.38	0.63
1:J:287:PHE:HB2	1:J:613:LEU:O	1.98	0.63
1:T:287:PHE:HB2	1:T:613:LEU:O	1.98	0.63
1:g:234:TRP:CE2	1:g:298[B]:ARG:HD3	2.33	0.63
1:g:287:PHE:HB2	1:g:613:LEU:O	1.98	0.63
1:h:287:PHE:HB2	1:h:613:LEU:O	1.98	0.63
1:z:287:PHE:HB2	1:z:613:LEU:O	1.98	0.63
1:2:287:PHE:HB2	1:2:613:LEU:O	1.98	0.63
1:3:482:CYS:SG	1:3:576:TYR:HB2	2.38	0.63
1:D:398:PHE:HE1	1:x:692:LYS:HG3	1.62	0.63
1:L:482:CYS:SG	1:L:576:TYR:HB2	2.38	0.63
1:M:287:PHE:HB2	1:M:613:LEU:O	1.98	0.63
1:O:287:PHE:HB2	1:O:613:LEU:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:234:TRP:CZ2	1:Q:298[A]:ARG:HB2	2.32	0.63
1:T:234:TRP:CD2	1:T:298[B]:ARG:HD3	2.34	0.63
1:Z:398:PHE:HE1	1:k:692:LYS:HG3	1.62	0.63
1:a:482:CYS:SG	1:a:576:TYR:HB2	2.38	0.63
1:c:398:PHE:HE1	1:3:692:LYS:HG3	1.63	0.63
1:d:398:PHE:HE1	1:v:692:LYS:HG3	1.62	0.63
1:i:482:CYS:SG	1:i:576:TYR:HB2	2.38	0.63
1:l:234:TRP:CH2	1:l:298[B]:ARG:HB3	2.33	0.63
1:l:287:PHE:HB2	1:l:613:LEU:O	1.98	0.63
1:m:287:PHE:HB2	1:m:613:LEU:O	1.98	0.63
1:n:482:CYS:SG	1:n:576:TYR:HB2	2.38	0.63
1:w:287:PHE:HB2	1:w:613:LEU:O	1.98	0.63
1:z:482:CYS:SG	1:z:576:TYR:HB2	2.38	0.63
1:C:482:CYS:SG	1:C:576:TYR:HB2	2.38	0.63
1:E:287:PHE:HB2	1:E:613:LEU:O	1.98	0.63
1:K:287:PHE:HB2	1:K:613:LEU:O	1.98	0.63
1:M:692:LYS:HG3	1:T:398:PHE:HE1	1.63	0.63
1:N:482:CYS:SG	1:N:576:TYR:HB2	2.38	0.63
1:W:482:CYS:SG	1:W:576:TYR:HB2	2.38	0.63
1:d:482:CYS:SG	1:d:576:TYR:HB2	2.38	0.63
1:g:482:CYS:SG	1:g:576:TYR:HB2	2.38	0.63
1:i:398:PHE:HE1	1:p:692:LYS:HG3	1.63	0.63
1:l:234:TRP:HE1	1:l:298[A]:ARG:HH11	1.46	0.63
1:t:526:HIS:HE1	1:t:563:GLU:HB3	1.59	0.63
1:v:234:TRP:CH2	1:v:298[A]:ARG:HB2	2.33	0.63
1:6:482:CYS:SG	1:6:576:TYR:HB2	2.38	0.63
1:A:482:CYS:SG	1:A:576:TYR:HB2	2.38	0.63
1:C:692:LYS:HG3	1:Y:398:PHE:HE1	1.63	0.63
1:b:496:ASN:OD1	1:b:497:ASN:N	2.31	0.63
1:b:692:LYS:HG3	1:v:398:PHE:HE1	1.63	0.63
1:c:287:PHE:HB2	1:c:613:LEU:O	1.98	0.63
1:e:287:PHE:HB2	1:e:613:LEU:O	1.98	0.63
1:e:692:LYS:HG3	1:y:398:PHE:HE1	1.63	0.63
1:g:692:LYS:HG3	1:7:398:PHE:HE1	1.63	0.63
1:r:496:ASN:OD1	1:r:497:ASN:N	2.31	0.63
1:w:482:CYS:SG	1:w:576:TYR:HB2	2.38	0.63
1:4:287:PHE:HB2	1:4:613:LEU:O	1.98	0.63
1:6:234:TRP:CD2	1:6:298[B]:ARG:HD3	2.34	0.63
1:b:287:PHE:HB2	1:b:613:LEU:O	1.98	0.63
1:e:482:CYS:SG	1:e:576:TYR:HB2	2.38	0.63
1:f:287:PHE:HB2	1:f:613:LEU:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:496:ASN:OD1	1:f:497:ASN:N	2.31	0.63
1:v:482:CYS:SG	1:v:576:TYR:HB2	2.38	0.63
1:S:496:ASN:OD1	1:S:497:ASN:N	2.31	0.63
1:b:482:CYS:SG	1:b:576:TYR:HB2	2.38	0.63
1:c:482:CYS:SG	1:c:576:TYR:HB2	2.38	0.63
1:k:234:TRP:CD2	1:k:298[B]:ARG:HD3	2.34	0.63
1:m:482:CYS:SG	1:m:576:TYR:HB2	2.38	0.63
1:t:496:ASN:OD1	1:t:497:ASN:N	2.31	0.63
1:1:496:ASN:OD1	1:1:497:ASN:N	2.31	0.63
1:5:482:CYS:SG	1:5:576:TYR:HB2	2.38	0.63
1:E:482:CYS:SG	1:E:576:TYR:HB2	2.38	0.62
1:E:692:LYS:HG3	1:p:398:PHE:HE1	1.64	0.62
1:F:482:CYS:SG	1:F:576:TYR:HB2	2.38	0.62
1:H:482:CYS:SG	1:H:576:TYR:HB2	2.38	0.62
1:J:482:CYS:SG	1:J:576:TYR:HB2	2.38	0.62
1:d:287:PHE:HB2	1:d:613:LEU:O	1.98	0.62
1:f:398:PHE:HE1	1:n:692:LYS:HG3	1.63	0.62
1:f:482:CYS:SG	1:f:576:TYR:HB2	2.38	0.62
1:n:287:PHE:HB2	1:n:613:LEU:O	1.98	0.62
1:G:287:PHE:HB2	1:G:613:LEU:O	1.98	0.62
1:G:496:ASN:OD1	1:G:497:ASN:N	2.31	0.62
1:S:692:LYS:HG3	1:q:398:PHE:HE1	1.63	0.62
1:T:482:CYS:SG	1:T:576:TYR:HB2	2.38	0.62
1:W:287:PHE:HB2	1:W:613:LEU:O	1.98	0.62
1:X:482:CYS:SG	1:X:576:TYR:HB2	2.38	0.62
1:Y:482:CYS:SG	1:Y:576:TYR:HB2	2.38	0.62
1:y:234:TRP:CH2	1:y:298[B]:ARG:HB3	2.34	0.62
1:y:482:CYS:SG	1:y:576:TYR:HB2	2.38	0.62
1:5:478:LEU:HB2	1:5:604:MET:HG2	1.82	0.62
1:B:496:ASN:OD1	1:B:497:ASN:N	2.31	0.62
1:H:287:PHE:HB2	1:H:613:LEU:O	1.98	0.62
1:K:482:CYS:SG	1:K:576:TYR:HB2	2.38	0.62
1:S:287:PHE:HB2	1:S:613:LEU:O	1.98	0.62
1:h:478:LEU:HB2	1:h:604:MET:HG2	1.82	0.62
1:o:482:CYS:SG	1:o:576:TYR:HB2	2.38	0.62
1:r:287:PHE:HB2	1:r:613:LEU:O	1.98	0.62
1:t:287:PHE:HB2	1:t:613:LEU:O	1.98	0.62
1:z:478:LEU:HB2	1:z:604:MET:HG2	1.82	0.62
1:2:482:CYS:SG	1:2:576:TYR:HB2	2.38	0.62
1:G:478:LEU:HB2	1:G:604:MET:HG2	1.82	0.62
1:H:478:LEU:HB2	1:H:604:MET:HG2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:398:PHE:HE1	1:O:692:LYS:HG3	1.63	0.62
1:L:478:LEU:HB2	1:L:604:MET:HG2	1.82	0.62
1:L:692:LYS:HG3	1:r:398:PHE:HE1	1.64	0.62
1:M:478:LEU:HB2	1:M:604:MET:HG2	1.82	0.62
1:X:478:LEU:HB2	1:X:604:MET:HG2	1.82	0.62
1:f:478:LEU:HB2	1:f:604:MET:HG2	1.82	0.62
1:o:478:LEU:HB2	1:o:604:MET:HG2	1.82	0.62
1:x:398:PHE:HE1	1:8:692:LYS:HG3	1.64	0.62
1:6:287:PHE:HB2	1:6:613:LEU:O	1.98	0.62
1:B:478:LEU:HB2	1:B:604:MET:HG2	1.82	0.62
1:G:337:THR:O	1:G:404:ARG:NH1	2.33	0.62
1:R:337:THR:O	1:R:404:ARG:NH1	2.33	0.62
1:V:478:LEU:HB2	1:V:604:MET:HG2	1.82	0.62
1:W:692:LYS:HG3	1:l:398:PHE:HE1	1.63	0.62
1:Z:337:THR:O	1:Z:404:ARG:NH1	2.33	0.62
1:p:478:LEU:HB2	1:p:604:MET:HG2	1.82	0.62
1:q:337:THR:O	1:q:404:ARG:NH1	2.33	0.62
1:r:478:LEU:HB2	1:r:604:MET:HG2	1.82	0.62
1:s:518:ASN:HD22	1:1:474:SER:HG	1.46	0.62
1:t:478:LEU:HB2	1:t:604:MET:HG2	1.82	0.62
1:v:234:TRP:CH2	1:v:298[B]:ARG:HB3	2.34	0.62
1:4:482:CYS:SG	1:4:576:TYR:HB2	2.38	0.62
1:7:478:LEU:HB2	1:7:604:MET:HG2	1.82	0.62
1:8:337:THR:O	1:8:404:ARG:NH1	2.33	0.62
1:A:337:THR:O	1:A:404:ARG:NH1	2.33	0.62
1:D:478:LEU:HB2	1:D:604:MET:HG2	1.82	0.62
1:E:337:THR:O	1:E:404:ARG:NH1	2.33	0.62
1:F:337:THR:O	1:F:404:ARG:NH1	2.33	0.62
1:Q:478:LEU:HB2	1:Q:604:MET:HG2	1.82	0.62
1:S:337:THR:O	1:S:404:ARG:NH1	2.33	0.62
1:S:478:LEU:HB2	1:S:604:MET:HG2	1.82	0.62
1:Y:478:LEU:HB2	1:Y:604:MET:HG2	1.82	0.62
1:r:337:THR:O	1:r:404:ARG:NH1	2.33	0.62
1:t:337:THR:O	1:t:404:ARG:NH1	2.33	0.62
1:v:337:THR:O	1:v:404:ARG:NH1	2.33	0.62
1:w:337:THR:O	1:w:404:ARG:NH1	2.33	0.62
1:x:478:LEU:HB2	1:x:604:MET:HG2	1.82	0.62
1:z:337:THR:O	1:z:404:ARG:NH1	2.33	0.62
1:4:234:TRP:CZ2	1:4:298[B]:ARG:HB3	2.35	0.62
1:5:287:PHE:HB2	1:5:613:LEU:O	1.98	0.62
1:7:482:CYS:SG	1:7:576:TYR:HB2	2.38	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:692:LYS:HG3	1:g:398:PHE:HE1	1.64	0.62
1:L:337:THR:O	1:L:404:ARG:NH1	2.33	0.62
1:N:692:LYS:HG3	1:w:398:PHE:HE1	1.64	0.62
1:U:692:LYS:HG3	1:2:398:PHE:HE1	1.65	0.62
1:V:337:THR:O	1:V:404:ARG:NH1	2.33	0.62
1:b:478:LEU:HB2	1:b:604:MET:HG2	1.82	0.62
1:d:478:LEU:HB2	1:d:604:MET:HG2	1.82	0.62
1:k:478:LEU:HB2	1:k:604:MET:HG2	1.82	0.62
1:m:234:TRP:CZ2	1:m:298[B]:ARG:HB3	2.35	0.62
1:y:337:THR:O	1:y:404:ARG:NH1	2.33	0.62
1:1:478:LEU:HB2	1:1:604:MET:HG2	1.82	0.62
1:F:478:LEU:HB2	1:F:604:MET:HG2	1.82	0.62
1:N:337:THR:O	1:N:404:ARG:NH1	2.33	0.62
1:Y:692:LYS:HG3	1:t:398:PHE:HE1	1.64	0.62
1:d:337:THR:O	1:d:404:ARG:NH1	2.33	0.62
1:l:478:LEU:HB2	1:l:604:MET:HG2	1.82	0.62
1:p:337:THR:O	1:p:404:ARG:NH1	2.33	0.62
1:D:692:LYS:HG3	1:8:398:PHE:HE1	1.63	0.62
1:I:337:THR:O	1:I:404:ARG:NH1	2.33	0.62
1:O:478:LEU:HB2	1:O:604:MET:HG2	1.82	0.62
1:P:692:LYS:HG3	1:X:398:PHE:HE1	1.63	0.62
1:i:337:THR:O	1:i:404:ARG:NH1	2.33	0.62
1:o:337:THR:O	1:o:404:ARG:NH1	2.33	0.62
1:2:337:THR:O	1:2:404:ARG:NH1	2.33	0.62
1:H:337:THR:O	1:H:404:ARG:NH1	2.33	0.62
1:J:337:THR:O	1:J:404:ARG:NH1	2.33	0.62
1:O:337:THR:O	1:O:404:ARG:NH1	2.33	0.62
1:T:337:THR:O	1:T:404:ARG:NH1	2.33	0.62
1:T:478:LEU:HB2	1:T:604:MET:HG2	1.82	0.62
1:W:337:THR:O	1:W:404:ARG:NH1	2.33	0.62
1:X:337:THR:O	1:X:404:ARG:NH1	2.33	0.62
1:k:337:THR:O	1:k:404:ARG:NH1	2.33	0.62
1:l:692:LYS:HG3	1:u:398:PHE:HE1	1.64	0.62
1:m:337:THR:O	1:m:404:ARG:NH1	2.33	0.62
1:n:337:THR:O	1:n:404:ARG:NH1	2.33	0.62
1:n:478:LEU:HB2	1:n:604:MET:HG2	1.82	0.62
1:y:478:LEU:HB2	1:y:604:MET:HG2	1.82	0.62
1:5:337:THR:O	1:5:404:ARG:NH1	2.33	0.62
1:B:692:LYS:HG3	1:U:398:PHE:HE1	1.64	0.61
1:D:337:THR:O	1:D:404:ARG:NH1	2.33	0.61
1:b:337:THR:O	1:b:404:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:337:THR:O	1:c:404:ARG:NH1	2.33	0.61
1:e:337:THR:O	1:e:404:ARG:NH1	2.33	0.61
1:j:478:LEU:HB2	1:j:604:MET:HG2	1.82	0.61
1:l:337:THR:O	1:l:404:ARG:NH1	2.33	0.61
1:s:337:THR:O	1:s:404:ARG:NH1	2.33	0.61
1:u:337:THR:O	1:u:404:ARG:NH1	2.33	0.61
1:5:234:TRP:NE1	1:5:298[A]:ARG:HH11	1.98	0.61
1:E:478:LEU:HB2	1:E:604:MET:HG2	1.82	0.61
1:M:337:THR:O	1:M:404:ARG:NH1	2.33	0.61
1:N:478:LEU:HB2	1:N:604:MET:HG2	1.82	0.61
1:U:337:THR:O	1:U:404:ARG:NH1	2.33	0.61
1:Y:234:TRP:CE2	1:Y:298[B]:ARG:HD3	2.36	0.61
1:h:337:THR:O	1:h:404:ARG:NH1	2.33	0.61
1:i:478:LEU:HB2	1:i:604:MET:HG2	1.82	0.61
1:m:478:LEU:HB2	1:m:604:MET:HG2	1.82	0.61
1:w:478:LEU:HB2	1:w:604:MET:HG2	1.82	0.61
1:6:337:THR:O	1:6:404:ARG:NH1	2.33	0.61
1:A:692:LYS:HG3	1:n:398:PHE:HE1	1.64	0.61
1:B:337:THR:O	1:B:404:ARG:NH1	2.33	0.61
1:O:483:TYR:H	1:O:523:MET:CE	2.14	0.61
1:P:478:LEU:HB2	1:P:604:MET:HG2	1.82	0.61
1:R:483:TYR:H	1:R:523:MET:CE	2.14	0.61
1:f:337:THR:O	1:f:404:ARG:NH1	2.33	0.61
1:q:483:TYR:H	1:q:523:MET:CE	2.14	0.61
1:1:337:THR:O	1:1:404:ARG:NH1	2.33	0.61
1:8:234:TRP:NE1	1:8:298[A]:ARG:HH11	1.98	0.61
1:F:692:LYS:HG3	1:3:398:PHE:HE1	1.65	0.61
1:I:483:TYR:H	1:I:523:MET:CE	2.14	0.61
1:L:483:TYR:H	1:L:523:MET:CE	2.14	0.61
1:W:483:TYR:H	1:W:523:MET:CE	2.14	0.61
1:l:483:TYR:H	1:l:523:MET:CE	2.14	0.61
1:z:483:TYR:H	1:z:523:MET:CE	2.14	0.61
1:6:483:TYR:H	1:6:523:MET:CE	2.14	0.61
1:7:337:THR:O	1:7:404:ARG:NH1	2.33	0.61
1:A:478:LEU:HB2	1:A:604:MET:HG2	1.82	0.61
1:K:478:LEU:HB2	1:K:604:MET:HG2	1.82	0.61
1:Y:337:THR:O	1:Y:404:ARG:NH1	2.33	0.61
1:Z:483:TYR:H	1:Z:523:MET:CE	2.14	0.61
1:r:483:TYR:H	1:r:523:MET:CE	2.14	0.61
1:u:483:TYR:H	1:u:523:MET:CE	2.14	0.61
1:v:478:LEU:HB2	1:v:604:MET:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:478:LEU:HB2	1:6:604:MET:HG2	1.82	0.61
1:S:483:TYR:H	1:S:523:MET:CE	2.14	0.61
1:W:478:LEU:HB2	1:W:604:MET:HG2	1.82	0.61
1:e:483:TYR:H	1:e:523:MET:CE	2.14	0.61
1:j:337:THR:O	1:j:404:ARG:NH1	2.33	0.61
1:s:478:LEU:HB2	1:s:604:MET:HG2	1.82	0.61
1:u:478:LEU:HB2	1:u:604:MET:HG2	1.82	0.61
1:3:478:LEU:HB2	1:3:604:MET:HG2	1.82	0.61
1:4:478:LEU:HB2	1:4:604:MET:HG2	1.82	0.61
1:C:478:LEU:HB2	1:C:604:MET:HG2	1.82	0.61
1:D:483:TYR:H	1:D:523:MET:CE	2.14	0.61
1:I:478:LEU:HB2	1:I:604:MET:HG2	1.82	0.61
1:I:692:LYS:HG3	1:6:398:PHE:HE1	1.65	0.61
1:N:234:TRP:CE2	1:N:298[B]:ARG:HD3	2.36	0.61
1:a:478:LEU:HB2	1:a:604:MET:HG2	1.82	0.61
1:c:483:TYR:H	1:c:523:MET:CE	2.14	0.61
1:k:483:TYR:H	1:k:523:MET:CE	2.14	0.61
1:4:483:TYR:H	1:4:523:MET:CE	2.14	0.61
1:8:483:TYR:H	1:8:523:MET:CE	2.14	0.61
1:K:483:TYR:H	1:K:523:MET:CE	2.14	0.61
1:P:337:THR:O	1:P:404:ARG:NH1	2.33	0.61
1:U:478:LEU:HB2	1:U:604:MET:HG2	1.82	0.61
1:Z:478:LEU:HB2	1:Z:604:MET:HG2	1.82	0.61
1:l:234:TRP:NE1	1:l:298[A]:ARG:HH11	1.99	0.61
1:x:337:THR:O	1:x:404:ARG:NH1	2.33	0.61
1:3:337:THR:O	1:3:404:ARG:NH1	2.33	0.61
1:6:229[A]:HIS:HE1	1:6:314:LYS:NZ	1.99	0.61
1:8:478:LEU:HB2	1:8:604:MET:HG2	1.82	0.61
1:Q:337:THR:O	1:Q:404:ARG:NH1	2.33	0.61
1:Q:483:TYR:H	1:Q:523:MET:CE	2.14	0.61
1:a:337:THR:O	1:a:404:ARG:NH1	2.33	0.61
1:g:478:LEU:HB2	1:g:604:MET:HG2	1.82	0.61
1:4:337:THR:O	1:4:404:ARG:NH1	2.33	0.61
1:E:483:TYR:H	1:E:523:MET:CE	2.14	0.61
1:U:483:TYR:H	1:U:523:MET:CE	2.14	0.61
1:c:478:LEU:HB2	1:c:604:MET:HG2	1.82	0.61
1:e:478:LEU:HB2	1:e:604:MET:HG2	1.82	0.61
1:j:428:GLN:HE22	1:o:351:PRO:HB3	1.66	0.61
1:w:483:TYR:H	1:w:523:MET:CE	2.14	0.61
1:x:483:TYR:H	1:x:523:MET:CE	2.14	0.61
1:V:483:TYR:H	1:V:523:MET:CE	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:337:THR:O	1:g:404:ARG:NH1	2.33	0.60
1:s:483:TYR:H	1:s:523:MET:CE	2.14	0.60
1:2:478:LEU:HB2	1:2:604:MET:HG2	1.82	0.60
1:C:337:THR:O	1:C:404:ARG:NH1	2.33	0.60
1:J:478:LEU:HB2	1:J:604:MET:HG2	1.82	0.60
1:K:337:THR:O	1:K:404:ARG:NH1	2.33	0.60
1:N:483:TYR:H	1:N:523:MET:CE	2.14	0.60
1:j:234:TRP:NE1	1:j:298[A]:ARG:HH11	1.98	0.60
1:m:428:GLN:HE22	1:5:351:PRO:HB3	1.66	0.60
1:p:483:TYR:H	1:p:523:MET:CE	2.14	0.60
1:S:234:TRP:CZ2	1:S:298[B]:ARG:HB3	2.36	0.60
1:a:527:LYS:HG2	1:a:528:ASP:H	1.67	0.60
1:h:483:TYR:H	1:h:523:MET:CE	2.14	0.60
1:2:527:LYS:HG2	1:2:528:ASP:H	1.67	0.60
1:5:234:TRP:CH2	1:5:298[B]:ARG:HB3	2.36	0.60
1:J:527:LYS:HG2	1:J:528:ASP:H	1.67	0.60
1:Y:527:LYS:HG2	1:Y:528:ASP:H	1.67	0.60
1:b:483:TYR:H	1:b:523:MET:CE	2.14	0.60
1:i:483:TYR:H	1:i:523:MET:CE	2.14	0.60
1:j:351:PRO:HB3	1:4:428:GLN:HE22	1.66	0.60
1:y:483:TYR:H	1:y:523:MET:CE	2.14	0.60
1:6:234:TRP:CH2	1:6:298[B]:ARG:HB3	2.36	0.60
1:7:527:LYS:HG2	1:7:528:ASP:H	1.67	0.60
1:B:527:LYS:HG2	1:B:528:ASP:H	1.67	0.60
1:F:483:TYR:H	1:F:523:MET:CE	2.14	0.60
1:G:483:TYR:H	1:G:523:MET:CE	2.14	0.60
1:J:234:TRP:CZ2	1:J:298[B]:ARG:HB3	2.36	0.60
1:M:483:TYR:H	1:M:523:MET:CE	2.14	0.60
1:R:478:LEU:HB2	1:R:604:MET:HG2	1.82	0.60
1:f:483:TYR:H	1:f:523:MET:CE	2.14	0.60
1:g:483:TYR:H	1:g:523:MET:CE	2.14	0.60
1:h:428:GLN:HE22	1:m:351:PRO:HB3	1.67	0.60
1:m:527:LYS:HG2	1:m:528:ASP:H	1.67	0.60
1:q:478:LEU:HB2	1:q:604:MET:HG2	1.82	0.60
1:t:483:TYR:H	1:t:523:MET:CE	2.14	0.60
1:3:527:LYS:HG2	1:3:528:ASP:H	1.67	0.60
1:C:483:TYR:H	1:C:523:MET:CE	2.14	0.60
1:H:483:TYR:H	1:H:523:MET:CE	2.14	0.60
1:Y:483:TYR:H	1:Y:523:MET:CE	2.14	0.60
1:b:527:LYS:HG2	1:b:528:ASP:H	1.67	0.60
1:f:527:LYS:HG2	1:f:528:ASP:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:527:LYS:HG2	1:1:528:ASP:H	1.67	0.60
1:5:483:TYR:H	1:5:523:MET:CE	2.14	0.60
1:7:483:TYR:H	1:7:523:MET:CE	2.14	0.60
1:Q:692:LYS:HG3	1:k:398:PHE:HE1	1.65	0.60
1:S:428:GLN:HE22	1:q:351:PRO:HB3	1.67	0.60
1:T:527:LYS:HG2	1:T:528:ASP:H	1.67	0.60
1:W:428:GLN:HE22	1:l:351:PRO:HB3	1.67	0.60
1:m:483:TYR:H	1:m:523:MET:CE	2.14	0.60
1:n:483:TYR:H	1:n:523:MET:CE	2.14	0.60
1:2:483:TYR:H	1:2:523:MET:CE	2.14	0.60
1:I:527:LYS:HG2	1:I:528:ASP:H	1.67	0.60
1:J:483:TYR:H	1:J:523:MET:CE	2.14	0.60
1:T:483:TYR:H	1:T:523:MET:CE	2.14	0.60
1:w:234:TRP:CH2	1:w:298[A]:ARG:HB2	2.37	0.60
1:6:527:LYS:HG2	1:6:528:ASP:H	1.67	0.60
1:K:527:LYS:HG2	1:K:528:ASP:H	1.67	0.60
1:O:527:LYS:HG2	1:O:528:ASP:H	1.67	0.60
1:Y:234:TRP:CH2	1:Y:298[B]:ARG:HB3	2.37	0.60
1:d:483:TYR:H	1:d:523:MET:CE	2.14	0.60
1:l:527:LYS:HG2	1:l:528:ASP:H	1.67	0.60
1:o:483:TYR:H	1:o:523:MET:CE	2.14	0.60
1:u:527:LYS:HG2	1:u:528:ASP:H	1.67	0.60
1:G:527:LYS:HG2	1:G:528:ASP:H	1.67	0.60
1:L:527:LYS:HG2	1:L:528:ASP:H	1.67	0.60
1:N:527:LYS:HG2	1:N:528:ASP:H	1.67	0.60
1:S:351:PRO:HB3	1:z:428:GLN:HE22	1.67	0.60
1:W:527:LYS:HG2	1:W:528:ASP:H	1.67	0.60
1:Z:527:LYS:HG2	1:Z:528:ASP:H	1.67	0.60
1:k:234:TRP:CH2	1:k:298[B]:ARG:HB3	2.36	0.60
1:t:527:LYS:HG2	1:t:528:ASP:H	1.67	0.60
1:w:234:TRP:CE3	1:w:298[B]:ARG:HD3	2.37	0.60
1:x:351:PRO:HB3	1:8:428:GLN:HE22	1.67	0.60
1:y:527:LYS:HG2	1:y:528:ASP:H	1.67	0.60
1:z:527:LYS:HG2	1:z:528:ASP:H	1.67	0.60
1:8:527:LYS:HG2	1:8:528:ASP:H	1.67	0.60
1:X:483:TYR:H	1:X:523:MET:CE	2.14	0.59
1:d:351:PRO:HB3	1:v:428:GLN:HE22	1.67	0.59
1:i:527:LYS:HG2	1:i:528:ASP:H	1.67	0.59
1:4:527:LYS:HG2	1:4:528:ASP:H	1.67	0.59
1:F:527:LYS:HG2	1:F:528:ASP:H	1.67	0.59
1:J:428:GLN:HE22	1:1:351:PRO:HB3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:527:LYS:HG2	1:R:528:ASP:H	1.67	0.59
1:X:527:LYS:HG2	1:X:528:ASP:H	1.67	0.59
1:q:527:LYS:HG2	1:q:528:ASP:H	1.67	0.59
1:v:483:TYR:H	1:v:523:MET:CE	2.14	0.59
1:3:483:TYR:H	1:3:523:MET:CE	2.14	0.59
1:A:483:TYR:H	1:A:523:MET:CE	2.14	0.59
1:C:527:LYS:HG2	1:C:528:ASP:H	1.67	0.59
1:M:482:CYS:HA	1:M:523:MET:HE2	1.85	0.59
1:M:527:LYS:HG2	1:M:528:ASP:H	1.67	0.59
1:V:527:LYS:HG2	1:V:528:ASP:H	1.67	0.59
1:W:358:HIS:NE2	1:u:434:MET:HB2	2.18	0.59
1:a:483:TYR:H	1:a:523:MET:CE	2.14	0.59
1:N:234:TRP:CH2	1:N:298[B]:ARG:HB3	2.37	0.59
1:k:527:LYS:HG2	1:k:528:ASP:H	1.67	0.59
1:D:351:PRO:HB3	1:x:428:GLN:HE22	1.68	0.59
1:J:358:HIS:NE2	1:s:434:MET:HB2	2.18	0.59
1:a:428:GLN:HE22	1:e:351:PRO:HB3	1.67	0.59
1:b:351:PRO:HB3	1:d:428:GLN:HE22	1.67	0.59
1:e:482:CYS:HA	1:e:523:MET:HE2	1.85	0.59
1:h:351:PRO:HB3	1:5:428:GLN:HE22	1.66	0.59
1:o:527:LYS:HG2	1:o:528:ASP:H	1.67	0.59
1:q:428:GLN:HE22	1:z:351:PRO:HB3	1.67	0.59
1:s:351:PRO:HB3	1:1:428:GLN:HE22	1.67	0.59
1:C:358:HIS:NE2	1:t:434:MET:HB2	2.18	0.59
1:N:482:CYS:HA	1:N:523:MET:HE2	1.85	0.59
1:a:351:PRO:HB3	1:y:428:GLN:HE22	1.67	0.59
1:b:234:TRP:CG	1:b:298[B]:ARG:HE	2.20	0.59
1:c:482:CYS:HA	1:c:523:MET:HE2	1.85	0.59
1:d:358:HIS:NE2	1:v:434:MET:HB2	2.18	0.59
1:g:527:LYS:HG2	1:g:528:ASP:H	1.67	0.59
1:h:482:CYS:HA	1:h:523:MET:HE2	1.85	0.59
1:j:483:TYR:H	1:j:523:MET:CE	2.14	0.59
1:p:527:LYS:HG2	1:p:528:ASP:H	1.67	0.59
1:r:527:LYS:HG2	1:r:528:ASP:H	1.67	0.59
1:B:295:ASP:OD2	1:K:397:TYR:OH	2.21	0.59
1:P:483:TYR:H	1:P:523:MET:CE	2.14	0.59
1:Q:397:TYR:OH	1:U:295:ASP:OD2	2.20	0.59
1:R:482:CYS:HA	1:R:523:MET:HE2	1.85	0.59
1:e:428:GLN:HE22	1:y:351:PRO:HB3	1.66	0.59
1:h:527:LYS:HG2	1:h:528:ASP:H	1.67	0.59
1:k:229[A]:HIS:HE1	1:k:314:LYS:NZ	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:234:TRP:CH2	1:t:298[A]:ARG:HB2	2.37	0.59
1:B:358:HIS:NE2	1:2:434:MET:HB2	2.17	0.59
1:H:527:LYS:HG2	1:H:528:ASP:H	1.67	0.59
1:N:428:GLN:HE22	1:w:351:PRO:HB3	1.67	0.59
1:P:482:CYS:HA	1:P:523:MET:HE2	1.85	0.59
1:S:527:LYS:HG2	1:S:528:ASP:H	1.67	0.59
1:b:295:ASP:OD1	1:b:298[A]:ARG:NH1	2.36	0.59
1:i:482:CYS:HA	1:i:523:MET:HE2	1.85	0.59
1:j:234:TRP:CH2	1:j:298[B]:ARG:HB3	2.36	0.59
1:j:434:MET:HB2	1:o:358:HIS:NE2	2.18	0.59
1:p:482:CYS:HA	1:p:523:MET:HE2	1.85	0.59
1:1:483:TYR:H	1:1:523:MET:CE	2.14	0.59
1:D:527:LYS:HG2	1:D:528:ASP:H	1.67	0.59
1:E:397:TYR:OH	1:N:295:ASP:OD2	2.21	0.59
1:G:397:TYR:OH	1:Y:295:ASP:OD2	2.21	0.59
1:R:358:HIS:NE2	1:r:434:MET:HB2	2.18	0.59
1:V:482:CYS:HA	1:V:523:MET:HE2	1.85	0.59
1:b:482:CYS:HA	1:b:523:MET:HE2	1.85	0.59
1:f:482:CYS:HA	1:f:523:MET:HE2	1.85	0.59
1:j:482:CYS:HA	1:j:523:MET:HE2	1.85	0.59
1:q:482:CYS:HA	1:q:523:MET:HE2	1.85	0.59
1:s:358:HIS:NE2	1:1:434:MET:HB2	2.18	0.59
1:1:482:CYS:HA	1:1:523:MET:HE2	1.85	0.59
1:A:428:GLN:HE22	1:n:351:PRO:HB3	1.68	0.59
1:B:483:TYR:H	1:B:523:MET:CE	2.14	0.59
1:D:358:HIS:NE2	1:x:434:MET:HB2	2.18	0.59
1:D:397:TYR:OH	1:b:295:ASP:OD2	2.21	0.59
1:O:351:PRO:HB3	1:6:428:GLN:HE22	1.68	0.59
1:O:482:CYS:HA	1:O:523:MET:HE2	1.85	0.59
1:S:358:HIS:NE2	1:z:434:MET:HB2	2.18	0.59
1:X:482:CYS:HA	1:X:523:MET:HE2	1.85	0.59
1:a:358:HIS:NE2	1:y:434:MET:HB2	2.18	0.59
1:e:234:TRP:CG	1:e:298[B]:ARG:HE	2.20	0.59
1:l:428:GLN:HE22	1:u:351:PRO:HB3	1.67	0.59
1:l:482:CYS:HA	1:l:523:MET:HE2	1.85	0.59
1:o:482:CYS:HA	1:o:523:MET:HE2	1.85	0.59
1:3:482:CYS:HA	1:3:523:MET:HE2	1.85	0.59
1:4:482:CYS:HA	1:4:523:MET:HE2	1.85	0.59
1:D:295:ASP:OD2	1:O:397:TYR:OH	2.21	0.58
1:E:351:PRO:HB3	1:i:428:GLN:HE22	1.68	0.58
1:G:428:GLN:HE22	1:g:351:PRO:HB3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:234:TRP:CH2	1:H:298[A]:ARG:HB2	2.38	0.58
1:K:482:CYS:HA	1:K:523:MET:HE2	1.85	0.58
1:P:527:LYS:HG2	1:P:528:ASP:H	1.67	0.58
1:Q:428:GLN:HE22	1:k:351:PRO:HB3	1.68	0.58
1:S:295:ASP:OD2	1:V:397:TYR:OH	2.21	0.58
1:Y:397:TYR:OH	1:3:295:ASP:OD2	2.21	0.58
1:a:482:CYS:HA	1:a:523:MET:HE2	1.85	0.58
1:d:527:LYS:HG2	1:d:528:ASP:H	1.67	0.58
1:t:234:TRP:CE3	1:t:298[B]:ARG:HD3	2.37	0.58
1:A:482:CYS:HA	1:A:523:MET:HE2	1.85	0.58
1:A:527:LYS:HG2	1:A:528:ASP:H	1.67	0.58
1:B:428:GLN:HE22	1:U:351:PRO:HB3	1.67	0.58
1:B:482:CYS:HA	1:B:523:MET:HE2	1.85	0.58
1:F:295:ASP:OD2	1:P:397:TYR:OH	2.22	0.58
1:j:527:LYS:HG2	1:j:528:ASP:H	1.67	0.58
1:o:428:GLN:HE22	1:4:351:PRO:HB3	1.67	0.58
1:q:434:MET:HB2	1:z:358:HIS:NE2	2.18	0.58
1:5:527:LYS:HG2	1:5:528:ASP:H	1.67	0.58
1:6:295:ASP:OD2	1:8:397:TYR:OH	2.21	0.58
1:C:351:PRO:HB3	1:t:428:GLN:HE22	1.68	0.58
1:P:234:TRP:CH2	1:P:298[A]:ARG:HB2	2.38	0.58
1:V:358:HIS:NE2	1:w:434:MET:HB2	2.18	0.58
1:Y:428:GLN:HE22	1:t:351:PRO:HB3	1.67	0.58
1:Z:482:CYS:HA	1:Z:523:MET:HE2	1.85	0.58
1:c:527:LYS:HG2	1:c:528:ASP:H	1.67	0.58
1:e:295:ASP:OD1	1:e:298[A]:ARG:NH1	2.36	0.58
1:k:482:CYS:HA	1:k:523:MET:HE2	1.85	0.58
1:s:482:CYS:HA	1:s:523:MET:HE2	1.85	0.58
1:x:527:LYS:HG2	1:x:528:ASP:H	1.67	0.58
1:8:482:CYS:HA	1:8:523:MET:HE2	1.85	0.58
1:A:397:TYR:OH	1:Q:295:ASP:OD2	2.22	0.58
1:C:428:GLN:HE22	1:Y:351:PRO:HB3	1.68	0.58
1:I:397:TYR:OH	1:L:295:ASP:OD2	2.21	0.58
1:J:351:PRO:HB3	1:s:428:GLN:HE22	1.67	0.58
1:Q:527:LYS:HG2	1:Q:528:ASP:H	1.67	0.58
1:W:295:ASP:OD2	1:Z:397:TYR:OH	2.22	0.58
1:b:428:GLN:HE22	1:v:351:PRO:HB3	1.66	0.58
1:k:295:ASP:OD2	1:l:397:TYR:OH	2.21	0.58
1:n:527:LYS:HG2	1:n:528:ASP:H	1.67	0.58
1:r:482:CYS:HA	1:r:523:MET:HE2	1.85	0.58
1:v:482:CYS:HA	1:v:523:MET:HE2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:527:LYS:HG2	1:v:528:ASP:H	1.67	0.58
1:w:527:LYS:HG2	1:w:528:ASP:H	1.67	0.58
1:D:482:CYS:HA	1:D:523:MET:HE2	1.85	0.58
1:I:482:CYS:HA	1:I:523:MET:HE2	1.85	0.58
1:N:397:TYR:OH	1:n:295:ASP:OD2	2.21	0.58
1:S:482:CYS:HA	1:S:523:MET:HE2	1.85	0.58
1:T:234:TRP:CH2	1:T:298[A]:ARG:HB2	2.38	0.58
1:U:482:CYS:HA	1:U:523:MET:HE2	1.85	0.58
1:d:397:TYR:OH	1:m:295:ASP:OD2	2.22	0.58
1:k:404:ARG:H	1:k:407:ASN:HD22	1.52	0.58
1:l:404:ARG:H	1:l:407:ASN:HD22	1.52	0.58
1:A:358:HIS:NE2	1:f:434:MET:HB2	2.19	0.58
1:B:397:TYR:OH	1:G:295:ASP:OD2	2.21	0.58
1:D:404:ARG:H	1:D:407:ASN:HD22	1.52	0.58
1:E:295:ASP:OD2	1:R:397:TYR:OH	2.21	0.58
1:E:527:LYS:HG2	1:E:528:ASP:H	1.67	0.58
1:F:428:GLN:HE22	1:3:351:PRO:HB3	1.69	0.58
1:J:397:TYR:OH	1:8:295:ASP:OD2	2.21	0.58
1:O:404:ARG:H	1:O:407:ASN:HD22	1.52	0.58
1:P:428:GLN:HE22	1:X:351:PRO:HB3	1.69	0.58
1:Q:358:HIS:NE2	1:Z:434:MET:HB2	2.18	0.58
1:b:397:TYR:OH	1:p:295:ASP:OD2	2.22	0.58
1:e:527:LYS:HG2	1:e:528:ASP:H	1.67	0.58
1:h:358:HIS:NE2	1:5:434:MET:HB2	2.18	0.58
1:n:404:ARG:H	1:n:407:ASN:HD22	1.52	0.58
1:u:482:CYS:HA	1:u:523:MET:HE2	1.85	0.58
1:C:482:CYS:HA	1:C:523:MET:HE2	1.85	0.58
1:E:358:HIS:NE2	1:i:434:MET:HB2	2.18	0.58
1:F:358:HIS:NE2	1:c:434:MET:HB2	2.19	0.58
1:G:358:HIS:NE2	1:7:434:MET:HB2	2.18	0.58
1:M:404:ARG:H	1:M:407:ASN:HD22	1.52	0.58
1:O:358:HIS:NE2	1:6:434:MET:HB2	2.18	0.58
1:P:434:MET:HB2	1:X:358:HIS:NE2	2.19	0.58
1:U:404:ARG:H	1:U:407:ASN:HD22	1.52	0.58
1:g:428:GLN:HE22	1:7:351:PRO:HB3	1.68	0.58
1:g:482:CYS:HA	1:g:523:MET:HE2	1.85	0.58
1:h:397:TYR:OH	1:j:295:ASP:OD2	2.22	0.58
1:h:404:ARG:H	1:h:407:ASN:HD22	1.52	0.58
1:h:434:MET:HB2	1:m:358:HIS:NE2	2.18	0.58
1:i:351:PRO:HB3	1:p:428:GLN:HE22	1.68	0.58
1:i:358:HIS:NE2	1:p:434:MET:HB2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:397:TYR:OH	1:r:295:ASP:OD2	2.22	0.58
1:q:234:TRP:NE1	1:q:298[A]:ARG:HH11	2.02	0.58
1:s:527:LYS:HG2	1:s:528:ASP:H	1.67	0.58
1:w:482:CYS:HA	1:w:523:MET:HE2	1.85	0.58
1:E:482:CYS:HA	1:E:523:MET:HE2	1.85	0.58
1:M:428:GLN:HE22	1:T:351:PRO:HB3	1.69	0.58
1:N:351:PRO:HB3	1:V:428:GLN:HE22	1.68	0.58
1:R:351:PRO:HB3	1:r:428:GLN:HE22	1.69	0.58
1:S:397:TYR:OH	1:l:295:ASP:OD2	2.21	0.58
1:U:527:LYS:HG2	1:U:528:ASP:H	1.67	0.58
1:a:397:TYR:OH	1:4:295:ASP:OD2	2.22	0.58
1:d:404:ARG:H	1:d:407:ASN:HD22	1.52	0.58
1:n:234:TRP:CE2	1:n:298[A]:ARG:HD2	2.39	0.58
1:s:404:ARG:H	1:s:407:ASN:HD22	1.52	0.58
1:A:295:ASP:OD2	1:H:397:TYR:OH	2.22	0.58
1:C:404:ARG:H	1:C:407:ASN:HD22	1.52	0.58
1:D:428:GLN:HE22	1:8:351:PRO:HB3	1.67	0.58
1:H:231:ASP:OD1	1:H:232:SER:N	2.37	0.58
1:Q:482:CYS:HA	1:Q:523:MET:HE2	1.85	0.58
1:g:404:ARG:H	1:g:407:ASN:HD22	1.52	0.58
1:t:295:ASP:OD2	1:1:397:TYR:OH	2.22	0.58
1:t:482:CYS:HA	1:t:523:MET:HE2	1.85	0.58
1:6:482:CYS:HA	1:6:523:MET:HE2	1.85	0.58
1:F:482:CYS:HA	1:F:523:MET:HE2	1.85	0.58
1:K:404:ARG:HG2	1:K:405:THR:H	1.69	0.58
1:L:428:GLN:HE22	1:r:351:PRO:HB3	1.69	0.58
1:Z:231:ASP:OD1	1:Z:232:SER:N	2.37	0.58
1:b:404:ARG:H	1:b:407:ASN:HD22	1.52	0.58
1:g:434:MET:HB2	1:7:358:HIS:NE2	2.19	0.58
1:r:404:ARG:H	1:r:407:ASN:HD22	1.52	0.58
1:x:482:CYS:HA	1:x:523:MET:HE2	1.85	0.58
1:y:482:CYS:HA	1:y:523:MET:HE2	1.85	0.58
1:1:231:ASP:OD1	1:1:232:SER:N	2.37	0.58
1:5:231:ASP:OD1	1:5:232:SER:N	2.37	0.58
1:8:231:ASP:OD1	1:8:232:SER:N	2.37	0.58
1:A:404:ARG:HG2	1:A:405:THR:H	1.69	0.57
1:B:231:ASP:OD1	1:B:232:SER:N	2.37	0.57
1:J:231:ASP:OD1	1:J:232:SER:N	2.37	0.57
1:N:358:HIS:NE2	1:V:434:MET:HB2	2.19	0.57
1:O:231:ASP:OD1	1:O:232:SER:N	2.37	0.57
1:P:231:ASP:OD1	1:P:232:SER:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:482:CYS:HA	1:T:523:MET:HE2	1.85	0.57
1:Z:358:HIS:NE2	1:k:434:MET:HB2	2.18	0.57
1:d:231:ASP:OD1	1:d:232:SER:N	2.37	0.57
1:f:404:ARG:H	1:f:407:ASN:HD22	1.52	0.57
1:j:231:ASP:OD1	1:j:232:SER:N	2.37	0.57
1:l:231:ASP:OD1	1:l:232:SER:N	2.37	0.57
1:m:397:TYR:OH	1:q:295:ASP:OD2	2.22	0.57
1:n:231:ASP:OD1	1:n:232:SER:N	2.37	0.57
1:v:404:ARG:HG2	1:v:405:THR:H	1.70	0.57
1:2:231:ASP:OD1	1:2:232:SER:N	2.37	0.57
1:3:404:ARG:H	1:3:407:ASN:HD22	1.52	0.57
1:G:351:PRO:HB3	1:7:428:GLN:HE22	1.68	0.57
1:G:482:CYS:HA	1:G:523:MET:HE2	1.85	0.57
1:H:351:PRO:HB3	1:T:428:GLN:HE22	1.69	0.57
1:H:482:CYS:HA	1:H:523:MET:HE2	1.85	0.57
1:L:358:HIS:NE2	1:R:434:MET:HB2	2.19	0.57
1:L:404:ARG:H	1:L:407:ASN:HD22	1.52	0.57
1:N:231:ASP:OD1	1:N:232:SER:N	2.37	0.57
1:Q:351:PRO:HB3	1:Z:428:GLN:HE22	1.69	0.57
1:S:404:ARG:H	1:S:407:ASN:HD22	1.52	0.57
1:W:482:CYS:HA	1:W:523:MET:HE2	1.85	0.57
1:c:351:PRO:HB3	1:3:428:GLN:HE22	1.68	0.57
1:c:404:ARG:HG2	1:c:405:THR:H	1.69	0.57
1:g:404:ARG:HG2	1:g:405:THR:H	1.69	0.57
1:i:231:ASP:OD1	1:i:232:SER:N	2.37	0.57
1:m:404:ARG:HG2	1:m:405:THR:H	1.70	0.57
1:m:482:CYS:HA	1:m:523:MET:HE2	1.85	0.57
1:q:234:TRP:CZ2	1:q:298[B]:ARG:HB3	2.39	0.57
1:4:404:ARG:HG2	1:4:405:THR:H	1.70	0.57
1:C:404:ARG:HG2	1:C:405:THR:H	1.70	0.57
1:C:434:MET:HB2	1:Y:358:HIS:NE2	2.19	0.57
1:I:231:ASP:OD1	1:I:232:SER:N	2.37	0.57
1:Y:482:CYS:HA	1:Y:523:MET:HE2	1.85	0.57
1:a:404:ARG:H	1:a:407:ASN:HD22	1.52	0.57
1:e:397:TYR:OH	1:g:295:ASP:OD2	2.22	0.57
1:e:404:ARG:HG2	1:e:405:THR:H	1.70	0.57
1:m:699:GLN:H	1:v:701:THR:HG23	1.70	0.57
1:u:231:ASP:OD1	1:u:232:SER:N	2.37	0.57
1:y:231:ASP:OD1	1:y:232:SER:N	2.37	0.57
1:z:404:ARG:H	1:z:407:ASN:HD22	1.52	0.57
1:1:295:ASP:OD2	1:4:397:TYR:OH	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:404:ARG:H	1:5:407:ASN:HD22	1.52	0.57
1:5:482:CYS:HA	1:5:523:MET:HE2	1.85	0.57
1:8:404:ARG:H	1:8:407:ASN:HD22	1.52	0.57
1:B:351:PRO:HB3	1:2:428:GLN:HE22	1.69	0.57
1:G:404:ARG:H	1:G:407:ASN:HD22	1.52	0.57
1:H:295:ASP:OD2	1:X:397:TYR:OH	2.23	0.57
1:H:404:ARG:H	1:H:407:ASN:HD22	1.52	0.57
1:I:358:HIS:NE2	1:O:434:MET:HB2	2.18	0.57
1:L:404:ARG:HG2	1:L:405:THR:H	1.70	0.57
1:M:434:MET:HB2	1:T:358:HIS:NE2	2.19	0.57
1:N:404:ARG:HG2	1:N:405:THR:H	1.69	0.57
1:S:404:ARG:HG2	1:S:405:THR:H	1.70	0.57
1:T:404:ARG:H	1:T:407:ASN:HD22	1.52	0.57
1:X:404:ARG:H	1:X:407:ASN:HD22	1.52	0.57
1:X:404:ARG:HG2	1:X:405:THR:H	1.70	0.57
1:Z:404:ARG:H	1:Z:407:ASN:HD22	1.52	0.57
1:b:545:GLN:NE2	1:b:720:TYR:O	2.38	0.57
1:h:231:ASP:OD1	1:h:232:SER:N	2.37	0.57
1:i:404:ARG:HG2	1:i:405:THR:H	1.70	0.57
1:n:482:CYS:HA	1:n:523:MET:HE2	1.85	0.57
1:o:397:TYR:OH	1:5:295:ASP:OD2	2.22	0.57
1:r:404:ARG:HG2	1:r:405:THR:H	1.70	0.57
1:w:231:ASP:OD1	1:w:232:SER:N	2.37	0.57
1:x:358:HIS:NE2	1:8:434:MET:HB2	2.20	0.57
1:z:404:ARG:HG2	1:z:405:THR:H	1.70	0.57
1:7:482:CYS:HA	1:7:523:MET:HE2	1.85	0.57
1:B:434:MET:HB2	1:U:358:HIS:NE2	2.20	0.57
1:E:231:ASP:OD1	1:E:232:SER:N	2.37	0.57
1:F:231:ASP:OD1	1:F:232:SER:N	2.37	0.57
1:L:456:THR:O	1:r:497:ASN:ND2	2.33	0.57
1:L:482:CYS:HA	1:L:523:MET:HE2	1.85	0.57
1:M:231:ASP:OD1	1:M:232:SER:N	2.37	0.57
1:Q:404:ARG:H	1:Q:407:ASN:HD22	1.52	0.57
1:R:545:GLN:NE2	1:R:720:TYR:O	2.38	0.57
1:S:434:MET:HB2	1:q:358:HIS:NE2	2.20	0.57
1:T:404:ARG:HG2	1:T:405:THR:H	1.70	0.57
1:Y:404:ARG:HG2	1:Y:405:THR:H	1.69	0.57
1:a:295:ASP:OD2	1:7:397:TYR:OH	2.23	0.57
1:d:482:CYS:HA	1:d:523:MET:HE2	1.85	0.57
1:f:351:PRO:HB3	1:n:428:GLN:HE22	1.69	0.57
1:f:404:ARG:HG2	1:f:405:THR:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:545:GLN:NE2	1:f:720:TYR:O	2.38	0.57
1:k:229[B]:HIS:CD2	1:k:242:THR:HG21	2.39	0.57
1:o:295:ASP:OD2	1:s:397:TYR:OH	2.22	0.57
1:o:404:ARG:HG2	1:o:405:THR:H	1.70	0.57
1:o:404:ARG:H	1:o:407:ASN:HD22	1.52	0.57
1:t:404:ARG:H	1:t:407:ASN:HD22	1.52	0.57
1:u:397:TYR:OH	1:z:295:ASP:OD2	2.23	0.57
1:3:234:TRP:CE2	1:3:298[A]:ARG:HD2	2.40	0.57
1:E:404:ARG:H	1:E:407:ASN:HD22	1.52	0.57
1:F:404:ARG:HG2	1:F:405:THR:H	1.69	0.57
1:F:545:GLN:NE2	1:F:720:TYR:O	2.38	0.57
1:I:545:GLN:NE2	1:I:720:TYR:O	2.38	0.57
1:J:404:ARG:HG2	1:J:405:THR:H	1.69	0.57
1:M:397:TYR:OH	1:P:295:ASP:OD2	2.23	0.57
1:N:404:ARG:H	1:N:407:ASN:HD22	1.52	0.57
1:V:295:ASP:OD2	1:f:397:TYR:OH	2.23	0.57
1:V:545:GLN:NE2	1:V:720:TYR:O	2.38	0.57
1:W:351:PRO:HB3	1:u:428:GLN:HE22	1.68	0.57
1:W:397:TYR:OH	1:e:295:ASP:OD2	2.21	0.57
1:X:545:GLN:NE2	1:X:720:TYR:O	2.38	0.57
1:b:231:ASP:OD1	1:b:232:SER:N	2.37	0.57
1:i:404:ARG:H	1:i:407:ASN:HD22	1.52	0.57
1:l:545:GLN:NE2	1:l:720:TYR:O	2.38	0.57
1:m:404:ARG:H	1:m:407:ASN:HD22	1.52	0.57
1:o:434:MET:HB2	1:4:358:HIS:NE2	2.18	0.57
1:p:545:GLN:NE2	1:p:720:TYR:O	2.38	0.57
1:q:545:GLN:NE2	1:q:720:TYR:O	2.38	0.57
1:s:295:ASP:OD2	1:x:397:TYR:OH	2.23	0.57
1:s:404:ARG:HG2	1:s:405:THR:H	1.69	0.57
1:y:545:GLN:NE2	1:y:720:TYR:O	2.38	0.57
1:z:482:CYS:HA	1:z:523:MET:HE2	1.85	0.57
1:1:234:TRP:CD2	1:1:298[B]:ARG:HD3	2.40	0.57
1:1:234:TRP:NE1	1:1:298[A]:ARG:HH11	2.02	0.57
1:6:229[B]:HIS:CD2	1:6:242:THR:HG21	2.39	0.57
1:7:404:ARG:HG2	1:7:405:THR:H	1.70	0.57
1:A:252:TYR:OH	1:A:372:VAL:O	2.23	0.57
1:D:231:ASP:OD1	1:D:232:SER:N	2.37	0.57
1:I:351:PRO:HB3	1:O:428:GLN:HE22	1.69	0.57
1:J:482:CYS:HA	1:J:523:MET:HE2	1.85	0.57
1:K:234:TRP:CH2	1:K:298[A]:ARG:HB2	2.39	0.57
1:O:545:GLN:NE2	1:O:720:TYR:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:404:ARG:HG2	1:U:405:THR:H	1.70	0.57
1:W:404:ARG:H	1:W:407:ASN:HD22	1.52	0.57
1:f:231:ASP:OD1	1:f:232:SER:N	2.37	0.57
1:j:404:ARG:H	1:j:407:ASN:HD22	1.52	0.57
1:m:231:ASP:OD1	1:m:232:SER:N	2.37	0.57
1:m:252:TYR:OH	1:m:372:VAL:O	2.23	0.57
1:o:545:GLN:NE2	1:o:720:TYR:O	2.38	0.57
1:o:699:GLN:H	1:1:701:THR:HG23	1.70	0.57
1:p:234:TRP:HE1	1:p:298[A]:ARG:NH1	2.03	0.57
1:u:545:GLN:NE2	1:u:720:TYR:O	2.38	0.57
1:v:397:TYR:OH	1:x:295:ASP:OD2	2.23	0.57
1:w:404:ARG:H	1:w:407:ASN:HD22	1.52	0.57
1:x:404:ARG:H	1:x:407:ASN:HD22	1.52	0.57
1:y:404:ARG:HG2	1:y:405:THR:H	1.70	0.57
1:2:482:CYS:HA	1:2:523:MET:HE2	1.85	0.57
1:B:545:GLN:NE2	1:B:720:TYR:O	2.38	0.57
1:C:397:TYR:OH	1:J:295:ASP:OD2	2.21	0.57
1:D:404:ARG:HG2	1:D:405:THR:H	1.69	0.57
1:D:545:GLN:NE2	1:D:720:TYR:O	2.38	0.57
1:F:397:TYR:OH	1:I:295:ASP:OD2	2.21	0.57
1:H:434:MET:HB2	1:M:358:HIS:NE2	2.19	0.57
1:K:434:MET:HB2	1:P:358:HIS:NE2	2.19	0.57
1:R:231:ASP:OD1	1:R:232:SER:N	2.37	0.57
1:T:252:TYR:OH	1:T:372:VAL:O	2.23	0.57
1:U:231:ASP:OD1	1:U:232:SER:N	2.37	0.57
1:V:351:PRO:HB3	1:w:428:GLN:HE22	1.68	0.57
1:a:699:GLN:H	1:g:701:THR:HG23	1.70	0.57
1:b:404:ARG:HG2	1:b:405:THR:H	1.70	0.57
1:d:252:TYR:OH	1:d:372:VAL:O	2.23	0.57
1:k:231:ASP:OD1	1:k:232:SER:N	2.37	0.57
1:p:404:ARG:HG2	1:p:405:THR:H	1.70	0.57
1:q:231:ASP:OD1	1:q:232:SER:N	2.37	0.57
1:q:397:TYR:OH	1:w:295:ASP:OD2	2.22	0.57
1:s:231:ASP:OD1	1:s:232:SER:N	2.37	0.57
1:u:295:ASP:OD2	1:y:397:TYR:OH	2.23	0.57
1:v:252:TYR:OH	1:v:372:VAL:O	2.23	0.57
1:1:545:GLN:NE2	1:1:720:TYR:O	2.38	0.57
1:2:404:ARG:HG2	1:2:405:THR:H	1.70	0.57
1:7:545:GLN:NE2	1:7:720:TYR:O	2.38	0.57
1:8:234:TRP:NE1	1:8:298[A]:ARG:HD2	2.20	0.57
1:A:231:ASP:OD1	1:A:232:SER:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:252:TYR:OH	1:C:372:VAL:O	2.23	0.57
1:E:404:ARG:HG2	1:E:405:THR:H	1.70	0.57
1:K:404:ARG:H	1:K:407:ASN:HD22	1.52	0.57
1:K:428:GLN:HE22	1:P:351:PRO:HB3	1.70	0.57
1:M:545:GLN:NE2	1:M:720:TYR:O	2.38	0.57
1:N:252:TYR:OH	1:N:372:VAL:O	2.23	0.57
1:S:398:PHE:CE1	1:z:692:LYS:HG3	2.40	0.57
1:U:448:THR:HG21	1:2:500:TYR:CE2	2.40	0.57
1:V:404:ARG:HG2	1:V:405:THR:H	1.70	0.57
1:X:231:ASP:OD1	1:X:232:SER:N	2.37	0.57
1:Y:545:GLN:NE2	1:Y:720:TYR:O	2.38	0.57
1:Z:351:PRO:HB3	1:k:428:GLN:HE22	1.68	0.57
1:Z:404:ARG:HG2	1:Z:405:THR:H	1.70	0.57
1:a:434:MET:HB2	1:e:358:HIS:NE2	2.19	0.57
1:e:545:GLN:NE2	1:e:720:TYR:O	2.38	0.57
1:g:545:GLN:NE2	1:g:720:TYR:O	2.38	0.57
1:h:545:GLN:NE2	1:h:720:TYR:O	2.38	0.57
1:i:252:TYR:OH	1:i:372:VAL:O	2.23	0.57
1:k:545:GLN:NE2	1:k:720:TYR:O	2.38	0.57
1:m:545:GLN:NE2	1:m:720:TYR:O	2.38	0.57
1:p:234:TRP:CZ2	1:p:298[B]:ARG:HB3	2.40	0.57
1:q:234:TRP:CD2	1:q:298[B]:ARG:HD3	2.40	0.57
1:q:252:TYR:OH	1:q:372:VAL:O	2.23	0.57
1:z:545:GLN:NE2	1:z:720:TYR:O	2.38	0.57
1:4:404:ARG:H	1:4:407:ASN:HD22	1.52	0.57
1:8:404:ARG:HG2	1:8:405:THR:H	1.70	0.57
1:A:545:GLN:NE2	1:A:720:TYR:O	2.38	0.57
1:E:428:GLN:HE22	1:p:351:PRO:HB3	1.68	0.57
1:F:404:ARG:H	1:F:407:ASN:HD22	1.52	0.57
1:H:428:GLN:HE22	1:M:351:PRO:HB3	1.69	0.57
1:J:404:ARG:H	1:J:407:ASN:HD22	1.52	0.57
1:L:545:GLN:NE2	1:L:720:TYR:O	2.38	0.57
1:P:404:ARG:H	1:P:407:ASN:HD22	1.52	0.57
1:Q:545:GLN:NE2	1:Q:720:TYR:O	2.38	0.57
1:R:252:TYR:OH	1:R:372:VAL:O	2.23	0.57
1:T:231:ASP:OD1	1:T:232:SER:N	2.37	0.57
1:T:545:GLN:NE2	1:T:720:TYR:O	2.38	0.57
1:W:434:MET:HB2	1:l:358:HIS:NE2	2.20	0.57
1:b:358:HIS:NE2	1:d:434:MET:HB2	2.19	0.57
1:g:252:TYR:OH	1:g:372:VAL:O	2.23	0.57
1:h:404:ARG:HG2	1:h:405:THR:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:699:GLN:H	1:q:701:THR:HG23	1.70	0.57
1:k:404:ARG:HG2	1:k:405:THR:H	1.70	0.57
1:o:231:ASP:OD1	1:o:232:SER:N	2.37	0.57
1:t:397:TYR:OH	1:7:295:ASP:OD2	2.23	0.57
1:v:231:ASP:OD1	1:v:232:SER:N	2.37	0.57
1:v:545:GLN:NE2	1:v:720:TYR:O	2.38	0.57
1:w:404:ARG:HG2	1:w:405:THR:H	1.70	0.57
1:y:404:ARG:H	1:y:407:ASN:HD22	1.52	0.57
1:1:234:TRP:CZ2	1:1:298[B]:ARG:HB3	2.39	0.57
1:2:404:ARG:H	1:2:407:ASN:HD22	1.52	0.57
1:2:545:GLN:NE2	1:2:720:TYR:O	2.38	0.57
1:4:231:ASP:OD1	1:4:232:SER:N	2.37	0.57
1:4:545:GLN:NE2	1:4:720:TYR:O	2.38	0.57
1:5:404:ARG:HG2	1:5:405:THR:H	1.70	0.57
1:6:231:ASP:OD1	1:6:232:SER:N	2.37	0.57
1:6:404:ARG:H	1:6:407:ASN:HD22	1.52	0.57
1:C:545:GLN:NE2	1:C:720:TYR:O	2.38	0.56
1:I:428:GLN:HE22	1:6:351:PRO:HB3	1.68	0.56
1:J:545:GLN:NE2	1:J:720:TYR:O	2.38	0.56
1:K:231:ASP:OD1	1:K:232:SER:N	2.37	0.56
1:M:404:ARG:HG2	1:M:405:THR:H	1.70	0.56
1:V:398:PHE:CE1	1:w:692:LYS:HG3	2.40	0.56
1:Z:545:GLN:NE2	1:Z:720:TYR:O	2.38	0.56
1:b:434:MET:HB2	1:v:358:HIS:NE2	2.20	0.56
1:c:545:GLN:NE2	1:c:720:TYR:O	2.38	0.56
1:d:295:ASP:OD2	1:i:397:TYR:OH	2.23	0.56
1:g:397:TYR:OH	1:2:295:ASP:OD2	2.22	0.56
1:l:234:TRP:NE1	1:l:298[A]:ARG:HD2	2.20	0.56
1:n:545:GLN:NE2	1:n:720:TYR:O	2.38	0.56
1:r:231:ASP:OD1	1:r:232:SER:N	2.37	0.56
1:w:545:GLN:NE2	1:w:720:TYR:O	2.38	0.56
1:x:545:GLN:NE2	1:x:720:TYR:O	2.38	0.56
1:y:701:THR:HG23	1:4:699:GLN:H	1.70	0.56
1:1:252:TYR:OH	1:1:372:VAL:O	2.23	0.56
1:8:545:GLN:NE2	1:8:720:TYR:O	2.38	0.56
1:B:252:TYR:OH	1:B:372:VAL:O	2.23	0.56
1:E:545:GLN:NE2	1:E:720:TYR:O	2.38	0.56
1:H:404:ARG:HG2	1:H:405:THR:H	1.70	0.56
1:J:398:PHE:CE1	1:s:692:LYS:HG3	2.40	0.56
1:K:545:GLN:NE2	1:K:720:TYR:O	2.38	0.56
1:L:351:PRO:HB3	1:R:428:GLN:HE22	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:234:TRP:CH2	1:T:298[B]:ARG:HB3	2.39	0.56
1:W:231:ASP:OD1	1:W:232:SER:N	2.37	0.56
1:W:545:GLN:NE2	1:W:720:TYR:O	2.38	0.56
1:b:252:TYR:OH	1:b:372:VAL:O	2.23	0.56
1:g:234:TRP:CZ2	1:g:298[B]:ARG:HB3	2.40	0.56
1:r:545:GLN:NE2	1:r:720:TYR:O	2.38	0.56
1:x:231:ASP:OD1	1:x:232:SER:N	2.37	0.56
1:1:404:ARG:HG2	1:1:405:THR:H	1.70	0.56
1:3:545:GLN:NE2	1:3:720:TYR:O	2.38	0.56
1:6:404:ARG:HG2	1:6:405:THR:H	1.70	0.56
1:6:545:GLN:NE2	1:6:720:TYR:O	2.38	0.56
1:8:234:TRP:CE2	1:8:298[B]:ARG:HD3	2.41	0.56
1:B:404:ARG:HG2	1:B:405:THR:H	1.70	0.56
1:D:434:MET:HB2	1:8:358:HIS:NE2	2.20	0.56
1:G:434:MET:HB2	1:g:358:HIS:NE2	2.20	0.56
1:K:234:TRP:CE2	1:K:298[B]:ARG:HD3	2.40	0.56
1:K:351:PRO:HB3	1:X:428:GLN:HE22	1.69	0.56
1:O:404:ARG:HG2	1:O:405:THR:H	1.70	0.56
1:P:545:GLN:NE2	1:P:720:TYR:O	2.38	0.56
1:Q:231:ASP:OD1	1:Q:232:SER:N	2.37	0.56
1:R:404:ARG:HG2	1:R:405:THR:H	1.69	0.56
1:S:231:ASP:OD1	1:S:232:SER:N	2.37	0.56
1:S:545:GLN:NE2	1:S:720:TYR:O	2.38	0.56
1:T:234:TRP:CE2	1:T:298[B]:ARG:HD3	2.41	0.56
1:W:404:ARG:HG2	1:W:405:THR:H	1.70	0.56
1:W:699:GLN:H	1:k:701:THR:HG23	1.71	0.56
1:Y:231:ASP:OD1	1:Y:232:SER:N	2.37	0.56
1:a:404:ARG:HG2	1:a:405:THR:H	1.70	0.56
1:a:545:GLN:NE2	1:a:720:TYR:O	2.38	0.56
1:d:545:GLN:NE2	1:d:720:TYR:O	2.38	0.56
1:e:434:MET:HB2	1:y:358:HIS:NE2	2.20	0.56
1:f:252:TYR:OH	1:f:372:VAL:O	2.23	0.56
1:f:295:ASP:OD2	1:k:397:TYR:OH	2.24	0.56
1:i:295:ASP:OD2	1:w:397:TYR:OH	2.23	0.56
1:j:397:TYR:OH	1:y:295:ASP:OD2	2.23	0.56
1:j:545:GLN:NE2	1:j:720:TYR:O	2.38	0.56
1:q:404:ARG:HG2	1:q:405:THR:H	1.70	0.56
1:s:545:GLN:NE2	1:s:720:TYR:O	2.38	0.56
1:v:295:ASP:OD2	1:5:397:TYR:OH	2.23	0.56
1:5:234:TRP:CZ2	1:5:298[B]:ARG:HB3	2.40	0.56
1:5:545:GLN:NE2	1:5:720:TYR:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:231:ASP:OD1	1:7:232:SER:N	2.37	0.56
1:A:351:PRO:HB3	1:f:428:GLN:HE22	1.69	0.56
1:A:353:VAL:H	1:A:645:GLN:NE2	2.04	0.56
1:A:434:MET:HB2	1:n:358:HIS:NE2	2.21	0.56
1:E:398:PHE:CE1	1:i:692:LYS:HG3	2.41	0.56
1:H:358:HIS:NE2	1:T:434:MET:HB2	2.19	0.56
1:H:545:GLN:NE2	1:H:720:TYR:O	2.38	0.56
1:J:434:MET:HB2	1:1:358:HIS:NE2	2.20	0.56
1:P:404:ARG:HG2	1:P:405:THR:H	1.70	0.56
1:R:404:ARG:H	1:R:407:ASN:HD22	1.52	0.56
1:U:397:TYR:OH	1:X:295:ASP:OD2	2.23	0.56
1:U:545:GLN:NE2	1:U:720:TYR:O	2.38	0.56
1:f:224:SER:H	1:k:407:ASN:HD21	1.54	0.56
1:h:295:ASP:OD2	1:z:397:TYR:OH	2.22	0.56
1:o:692:LYS:HG3	1:4:398:PHE:CE1	2.41	0.56
1:q:404:ARG:H	1:q:407:ASN:HD22	1.52	0.56
1:D:699:GLN:H	1:6:701:THR:HG23	1.71	0.56
1:G:545:GLN:NE2	1:G:720:TYR:O	2.38	0.56
1:K:295:ASP:OD2	1:3:397:TYR:OH	2.24	0.56
1:K:358:HIS:NE2	1:X:434:MET:HB2	2.19	0.56
1:M:431:ASP:HB3	1:M:432:ARG:NH1	2.21	0.56
1:N:545:GLN:NE2	1:N:720:TYR:O	2.38	0.56
1:Y:353:VAL:H	1:Y:645:GLN:NE2	2.04	0.56
1:Y:404:ARG:H	1:Y:407:ASN:HD22	1.52	0.56
1:Y:431:ASP:HB3	1:Y:432:ARG:NH1	2.21	0.56
1:f:358:HIS:NE2	1:n:434:MET:HB2	2.20	0.56
1:i:545:GLN:NE2	1:i:720:TYR:O	2.38	0.56
1:j:692:LYS:HG3	1:o:398:PHE:CE1	2.40	0.56
1:k:229[A]:HIS:HE1	1:k:314:LYS:HZ1	1.53	0.56
1:l:404:ARG:HG2	1:l:405:THR:H	1.70	0.56
1:l:434:MET:HB2	1:u:358:HIS:NE2	2.20	0.56
1:p:231:ASP:OD1	1:p:232:SER:N	2.37	0.56
1:v:353:VAL:H	1:v:645:GLN:NE2	2.04	0.56
1:z:431:ASP:HB3	1:z:432:ARG:NH1	2.21	0.56
1:3:404:ARG:HG2	1:3:405:THR:H	1.70	0.56
1:7:431:ASP:HB3	1:7:432:ARG:NH1	2.21	0.56
1:C:295:ASP:OD2	1:c:397:TYR:OH	2.23	0.56
1:G:404:ARG:HG2	1:G:405:THR:H	1.69	0.56
1:I:434:MET:HB2	1:6:358:HIS:NE2	2.21	0.56
1:K:431:ASP:HB3	1:K:432:ARG:NH1	2.21	0.56
1:N:407:ASN:HD21	1:n:224:SER:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:431:ASP:HB3	1:O:432:ARG:NH1	2.21	0.56
1:R:295:ASP:OD2	1:T:397:TYR:OH	2.22	0.56
1:R:353:VAL:H	1:R:645:GLN:NE2	2.04	0.56
1:R:398:PHE:CE1	1:r:692:LYS:HG3	2.41	0.56
1:S:431:ASP:HB3	1:S:432:ARG:NH1	2.21	0.56
1:V:231:ASP:OD1	1:V:232:SER:N	2.37	0.56
1:c:224:SER:H	1:6:407:ASN:HD21	1.54	0.56
1:h:431:ASP:HB3	1:h:432:ARG:NH1	2.21	0.56
1:i:431:ASP:HB3	1:i:432:ARG:NH1	2.21	0.56
1:j:358:HIS:NE2	1:4:434:MET:HB2	2.19	0.56
1:j:404:ARG:HG2	1:j:405:THR:H	1.70	0.56
1:l:431:ASP:HB3	1:l:432:ARG:NH1	2.21	0.56
1:l:701:THR:HG23	1:z:699:GLN:H	1.71	0.56
1:m:353:VAL:H	1:m:645:GLN:NE2	2.04	0.56
1:m:434:MET:HB2	1:5:358:HIS:NE2	2.19	0.56
1:q:353:VAL:H	1:q:645:GLN:NE2	2.04	0.56
1:r:431:ASP:HB3	1:r:432:ARG:NH1	2.21	0.56
1:t:404:ARG:HG2	1:t:405:THR:H	1.70	0.56
1:6:353:VAL:H	1:6:645:GLN:NE2	2.04	0.56
1:7:353:VAL:H	1:7:645:GLN:NE2	2.04	0.56
1:8:353:VAL:H	1:8:645:GLN:NE2	2.04	0.56
1:A:404:ARG:H	1:A:407:ASN:HD22	1.52	0.56
1:F:431:ASP:HB3	1:F:432:ARG:NH1	2.21	0.56
1:H:431:ASP:HB3	1:H:432:ARG:NH1	2.21	0.56
1:L:431:ASP:HB3	1:L:432:ARG:NH1	2.21	0.56
1:L:434:MET:HB2	1:r:358:HIS:NE2	2.21	0.56
1:L:448:THR:HG21	1:r:500:TYR:CE2	2.40	0.56
1:N:431:ASP:HB3	1:N:432:ARG:NH1	2.21	0.56
1:Q:431:ASP:HB3	1:Q:432:ARG:NH1	2.21	0.56
1:T:295:ASP:OD2	1:n:397:TYR:OH	2.24	0.56
1:T:353:VAL:H	1:T:645:GLN:NE2	2.04	0.56
1:W:353:VAL:H	1:W:645:GLN:NE2	2.04	0.56
1:Z:353:VAL:H	1:Z:645:GLN:NE2	2.04	0.56
1:g:234:TRP:HE1	1:g:298[A]:ARG:NH1	2.03	0.56
1:j:234:TRP:CZ2	1:j:298[B]:ARG:HB3	2.40	0.56
1:l:234:TRP:CE2	1:l:298[B]:ARG:HD3	2.41	0.56
1:p:404:ARG:H	1:p:407:ASN:HD22	1.52	0.56
1:t:545:GLN:NE2	1:t:720:TYR:O	2.38	0.56
1:x:431:ASP:HB3	1:x:432:ARG:NH1	2.21	0.56
1:y:431:ASP:HB3	1:y:432:ARG:NH1	2.21	0.56
1:1:404:ARG:H	1:1:407:ASN:HD22	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:431:ASP:HB3	1:4:432:ARG:NH1	2.21	0.56
1:5:431:ASP:HB3	1:5:432:ARG:NH1	2.21	0.56
1:7:404:ARG:H	1:7:407:ASN:HD22	1.52	0.56
1:B:431:ASP:HB3	1:B:432:ARG:NH1	2.21	0.56
1:C:231:ASP:OD1	1:C:232:SER:N	2.37	0.56
1:I:404:ARG:H	1:I:407:ASN:HD22	1.52	0.56
1:J:431:ASP:HB3	1:J:432:ARG:NH1	2.21	0.56
1:K:500:TYR:CE2	1:X:448:THR:HG21	2.41	0.56
1:L:252:TYR:OH	1:L:372:VAL:O	2.23	0.56
1:L:397:TYR:OH	1:M:295:ASP:OD2	2.22	0.56
1:Q:353:VAL:H	1:Q:645:GLN:NE2	2.04	0.56
1:Q:448:THR:HG21	1:k:500:TYR:CE2	2.41	0.56
1:U:428:GLN:HE22	1:2:351:PRO:HB3	1.70	0.56
1:V:404:ARG:H	1:V:407:ASN:HD22	1.52	0.56
1:W:431:ASP:HB3	1:W:432:ARG:NH1	2.21	0.56
1:c:358:HIS:NE2	1:3:434:MET:HB2	2.20	0.56
1:d:353:VAL:H	1:d:645:GLN:NE2	2.04	0.56
1:d:398:PHE:CE1	1:v:692:LYS:HG3	2.40	0.56
1:d:404:ARG:HG2	1:d:405:THR:H	1.70	0.56
1:e:404:ARG:H	1:e:407:ASN:HD22	1.52	0.56
1:j:701:THR:HG23	1:5:699:GLN:H	1.71	0.56
1:o:431:ASP:HB3	1:o:432:ARG:NH1	2.21	0.56
1:z:252:TYR:OH	1:z:372:VAL:O	2.23	0.56
1:6:431:ASP:HB3	1:6:432:ARG:NH1	2.21	0.56
1:B:404:ARG:H	1:B:407:ASN:HD22	1.52	0.56
1:D:398:PHE:CE1	1:x:692:LYS:HG3	2.40	0.56
1:F:353:VAL:H	1:F:645:GLN:NE2	2.04	0.56
1:M:407:ASN:HD21	1:P:224:SER:H	1.54	0.56
1:U:353:VAL:H	1:U:645:GLN:NE2	2.04	0.56
1:W:398:PHE:CE1	1:u:692:LYS:HG3	2.40	0.56
1:X:431:ASP:HB3	1:X:432:ARG:NH1	2.21	0.56
1:a:431:ASP:HB3	1:a:432:ARG:NH1	2.21	0.56
1:c:231:ASP:OD1	1:c:232:SER:N	2.37	0.56
1:c:404:ARG:H	1:c:407:ASN:HD22	1.52	0.56
1:e:431:ASP:HB3	1:e:432:ARG:NH1	2.21	0.56
1:n:353:VAL:H	1:n:645:GLN:NE2	2.04	0.56
1:s:353:VAL:H	1:s:645:GLN:NE2	2.04	0.56
1:s:431:ASP:HB3	1:s:432:ARG:NH1	2.21	0.56
1:t:431:ASP:HB3	1:t:432:ARG:NH1	2.21	0.56
1:u:404:ARG:H	1:u:407:ASN:HD22	1.52	0.56
1:v:404:ARG:H	1:v:407:ASN:HD22	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:353:VAL:H	1:x:645:GLN:NE2	2.04	0.56
1:1:431:ASP:HB3	1:1:432:ARG:NH1	2.21	0.56
1:2:431:ASP:HB3	1:2:432:ARG:NH1	2.21	0.56
1:6:231:ASP:H	1:6:242:THR:HB	1.71	0.56
1:G:398:PHE:CE1	1:7:692:LYS:HG3	2.41	0.56
1:G:431:ASP:HB3	1:G:432:ARG:NH1	2.21	0.56
1:K:353:VAL:H	1:K:645:GLN:NE2	2.04	0.56
1:P:431:ASP:HB3	1:P:432:ARG:NH1	2.21	0.56
1:U:431:ASP:HB3	1:U:432:ARG:NH1	2.21	0.56
1:c:431:ASP:HB3	1:c:432:ARG:NH1	2.21	0.56
1:e:231:ASP:OD1	1:e:232:SER:N	2.37	0.56
1:g:231:ASP:OD1	1:g:232:SER:N	2.37	0.56
1:h:692:LYS:HG3	1:m:398:PHE:CE1	2.41	0.56
1:k:224:SER:H	1:l:407:ASN:HD21	1.54	0.56
1:q:234:TRP:CZ2	1:q:298[A]:ARG:HB2	2.41	0.56
1:y:353:VAL:H	1:y:645:GLN:NE2	2.04	0.56
1:3:231:ASP:H	1:3:242:THR:HB	1.72	0.56
1:3:431:ASP:HB3	1:3:432:ARG:NH1	2.21	0.56
1:4:353:VAL:H	1:4:645:GLN:NE2	2.04	0.56
1:8:431:ASP:HB3	1:8:432:ARG:NH1	2.21	0.56
1:C:231:ASP:H	1:C:242:THR:HB	1.71	0.55
1:E:353:VAL:H	1:E:645:GLN:NE2	2.04	0.55
1:F:434:MET:HB2	1:3:358:HIS:NE2	2.21	0.55
1:I:231:ASP:H	1:I:242:THR:HB	1.72	0.55
1:J:353:VAL:H	1:J:645:GLN:NE2	2.04	0.55
1:K:234:TRP:CH2	1:K:298[B]:ARG:HB3	2.40	0.55
1:N:434:MET:HB2	1:w:358:HIS:NE2	2.21	0.55
1:S:699:GLN:H	1:w:701:THR:HG23	1.70	0.55
1:W:231:ASP:H	1:W:242:THR:HB	1.72	0.55
1:Z:431:ASP:HB3	1:Z:432:ARG:NH1	2.21	0.55
1:a:231:ASP:H	1:a:242:THR:HB	1.72	0.55
1:b:398:PHE:CE1	1:d:692:LYS:HG3	2.41	0.55
1:b:699:GLN:H	1:x:701:THR:HG23	1.71	0.55
1:c:231:ASP:H	1:c:242:THR:HB	1.71	0.55
1:e:699:GLN:H	1:u:701:THR:HG23	1.71	0.55
1:g:231:ASP:H	1:g:242:THR:HB	1.71	0.55
1:j:398:PHE:CE1	1:4:692:LYS:HG3	2.41	0.55
1:j:431:ASP:HB3	1:j:432:ARG:NH1	2.21	0.55
1:n:404:ARG:HG2	1:n:405:THR:H	1.70	0.55
1:u:404:ARG:HG2	1:u:405:THR:H	1.69	0.55
1:v:234:TRP:CE2	1:v:298[A]:ARG:HD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:353:VAL:H	1:w:645:GLN:NE2	2.04	0.55
1:y:231:ASP:H	1:y:242:THR:HB	1.71	0.55
1:2:353:VAL:H	1:2:645:GLN:NE2	2.04	0.55
1:B:353:VAL:H	1:B:645:GLN:NE2	2.04	0.55
1:E:434:MET:HB2	1:p:358:HIS:NE2	2.20	0.55
1:F:231:ASP:H	1:F:242:THR:HB	1.72	0.55
1:I:404:ARG:HG2	1:I:405:THR:H	1.70	0.55
1:I:431:ASP:HB3	1:I:432:ARG:NH1	2.21	0.55
1:I:448:THR:HG21	1:6:500:TYR:CE2	2.41	0.55
1:J:231:ASP:H	1:J:242:THR:HB	1.72	0.55
1:K:224:SER:H	1:3:407:ASN:HD21	1.54	0.55
1:P:448:THR:HG21	1:X:500:TYR:CE2	2.42	0.55
1:Q:231:ASP:H	1:Q:242:THR:HB	1.71	0.55
1:d:231:ASP:H	1:d:242:THR:HB	1.71	0.55
1:d:699:GLN:H	1:p:701:THR:HG23	1.70	0.55
1:e:231:ASP:H	1:e:242:THR:HB	1.71	0.55
1:f:500:TYR:CE2	1:n:448:THR:HG21	2.41	0.55
1:o:252:TYR:OH	1:o:372:VAL:O	2.23	0.55
1:t:231:ASP:OD1	1:t:232:SER:N	2.37	0.55
1:u:231:ASP:H	1:u:242:THR:HB	1.72	0.55
1:u:431:ASP:HB3	1:u:432:ARG:NH1	2.21	0.55
1:2:231:ASP:H	1:2:242:THR:HB	1.72	0.55
1:4:252:TYR:OH	1:4:372:VAL:O	2.23	0.55
1:A:431:ASP:HB3	1:A:432:ARG:NH1	2.21	0.55
1:D:431:ASP:HB3	1:D:432:ARG:NH1	2.21	0.55
1:E:431:ASP:HB3	1:E:432:ARG:NH1	2.21	0.55
1:F:351:PRO:HB3	1:c:428:GLN:HE22	1.70	0.55
1:F:448:THR:HG21	1:3:500:TYR:CE2	2.42	0.55
1:H:500:TYR:CE2	1:T:448:THR:HG21	2.42	0.55
1:L:407:ASN:HD21	1:M:224:SER:H	1.54	0.55
1:M:231:ASP:H	1:M:242:THR:HB	1.72	0.55
1:O:231:ASP:H	1:O:242:THR:HB	1.72	0.55
1:S:252:TYR:OH	1:S:372:VAL:O	2.23	0.55
1:U:434:MET:HB2	1:2:358:HIS:NE2	2.22	0.55
1:X:252:TYR:OH	1:X:372:VAL:O	2.23	0.55
1:h:398:PHE:CE1	1:5:692:LYS:HG3	2.40	0.55
1:k:431:ASP:HB3	1:k:432:ARG:NH1	2.21	0.55
1:l:231:ASP:H	1:l:242:THR:HB	1.72	0.55
1:v:431:ASP:HB3	1:v:432:ARG:NH1	2.21	0.55
1:x:231:ASP:H	1:x:242:THR:HB	1.72	0.55
1:y:234:TRP:CE2	1:y:298[A]:ARG:HD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:353:VAL:H	1:1:645:GLN:NE2	2.04	0.55
1:6:224:SER:H	1:8:407:ASN:HD21	1.54	0.55
1:H:448:THR:HG21	1:M:500:TYR:CE2	2.42	0.55
1:K:252:TYR:OH	1:K:372:VAL:O	2.23	0.55
1:M:448:THR:HG21	1:T:500:TYR:CE2	2.41	0.55
1:Q:434:MET:HB2	1:k:358:HIS:NE2	2.21	0.55
1:Y:231:ASP:H	1:Y:242:THR:HB	1.71	0.55
1:Z:295:ASP:OD2	1:2:397:TYR:OH	2.24	0.55
1:g:407:ASN:HD21	1:2:224:SER:H	1.53	0.55
1:r:252:TYR:OH	1:r:372:VAL:O	2.23	0.55
1:z:231:ASP:OD1	1:z:232:SER:N	2.37	0.55
1:7:231:ASP:H	1:7:242:THR:HB	1.72	0.55
1:G:231:ASP:OD1	1:G:232:SER:N	2.37	0.55
1:G:231:ASP:H	1:G:242:THR:HB	1.71	0.55
1:I:407:ASN:HD21	1:L:224:SER:H	1.55	0.55
1:P:353:VAL:H	1:P:645:GLN:NE2	2.04	0.55
1:Y:434:MET:HB2	1:t:358:HIS:NE2	2.21	0.55
1:c:353:VAL:H	1:c:645:GLN:NE2	2.04	0.55
1:h:231:ASP:H	1:h:242:THR:HB	1.72	0.55
1:i:231:ASP:H	1:i:242:THR:HB	1.72	0.55
1:i:500:TYR:CE2	1:p:448:THR:HG21	2.42	0.55
1:n:231:ASP:H	1:n:242:THR:HB	1.72	0.55
1:o:353:VAL:H	1:o:645:GLN:NE2	2.04	0.55
1:r:353:VAL:H	1:r:645:GLN:NE2	2.04	0.55
1:w:431:ASP:HB3	1:w:432:ARG:NH1	2.21	0.55
1:1:234:TRP:CZ2	1:1:298[A]:ARG:HB2	2.41	0.55
1:C:431:ASP:HB3	1:C:432:ARG:NH1	2.21	0.55
1:Q:407:ASN:HD21	1:U:224:SER:H	1.55	0.55
1:S:353:VAL:H	1:S:645:GLN:NE2	2.04	0.55
1:S:692:LYS:HG3	1:q:398:PHE:CE1	2.42	0.55
1:Y:407:ASN:HD21	1:3:224:SER:H	1.53	0.55
1:b:431:ASP:HB3	1:b:432:ARG:NH1	2.21	0.55
1:c:295:ASP:OD2	1:6:397:TYR:OH	2.23	0.55
1:g:431:ASP:HB3	1:g:432:ARG:NH1	2.21	0.55
1:g:448:THR:HG21	1:7:500:TYR:CE2	2.42	0.55
1:i:398:PHE:CE1	1:p:692:LYS:HG3	2.42	0.55
1:q:692:LYS:HG3	1:z:398:PHE:CE1	2.41	0.55
1:t:224:SER:H	1:1:407:ASN:HD21	1.55	0.55
1:w:231:ASP:H	1:w:242:THR:HB	1.72	0.55
1:E:231:ASP:H	1:E:242:THR:HB	1.72	0.55
1:H:224:SER:H	1:X:407:ASN:HD21	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:448:THR:HG21	1:P:500:TYR:CE2	2.42	0.55
1:L:231:ASP:OD1	1:L:232:SER:N	2.37	0.55
1:N:231:ASP:H	1:N:242:THR:HB	1.72	0.55
1:N:448:THR:HG21	1:w:500:TYR:CE2	2.42	0.55
1:Q:404:ARG:HG2	1:Q:405:THR:H	1.70	0.55
1:R:231:ASP:H	1:R:242:THR:HB	1.72	0.55
1:e:353:VAL:H	1:e:645:GLN:NE2	2.04	0.55
1:h:252:TYR:OH	1:h:372:VAL:O	2.23	0.55
1:j:252:TYR:OH	1:j:372:VAL:O	2.23	0.55
1:j:353:VAL:H	1:j:645:GLN:NE2	2.04	0.55
1:t:231:ASP:H	1:t:242:THR:HB	1.72	0.55
1:x:404:ARG:HG2	1:x:405:THR:H	1.69	0.55
1:y:234:TRP:CD2	1:y:298[A]:ARG:HD2	2.42	0.55
1:1:231:ASP:H	1:1:242:THR:HB	1.71	0.55
1:G:252:TYR:OH	1:G:372:VAL:O	2.23	0.55
1:G:353:VAL:H	1:G:645:GLN:NE2	2.04	0.55
1:J:699:GLN:H	1:t:701:THR:HG23	1.70	0.55
1:N:398:PHE:CE1	1:V:692:LYS:HG3	2.42	0.55
1:O:295:ASP:OD2	1:r:397:TYR:OH	2.24	0.55
1:Q:398:PHE:CE1	1:Z:692:LYS:HG3	2.42	0.55
1:U:407:ASN:HD21	1:X:224:SER:H	1.53	0.55
1:V:231:ASP:H	1:V:242:THR:HB	1.72	0.55
1:X:353:VAL:H	1:X:645:GLN:NE2	2.04	0.55
1:Z:398:PHE:CE1	1:k:692:LYS:HG3	2.41	0.55
1:a:231:ASP:OD1	1:a:232:SER:N	2.37	0.55
1:f:431:ASP:HB3	1:f:432:ARG:NH1	2.21	0.55
1:q:231:ASP:H	1:q:242:THR:HB	1.71	0.55
1:t:353:VAL:H	1:t:645:GLN:NE2	2.04	0.55
1:4:234:TRP:CH2	1:4:298[B]:ARG:HB3	2.42	0.55
1:4:234:TRP:CD2	1:4:298[B]:ARG:HD3	2.42	0.55
1:A:231:ASP:H	1:A:242:THR:HB	1.72	0.55
1:B:231:ASP:H	1:B:242:THR:HB	1.71	0.55
1:B:398:PHE:CE1	1:2:692:LYS:HG3	2.41	0.55
1:L:231:ASP:H	1:L:242:THR:HB	1.71	0.55
1:M:252:TYR:OH	1:M:372:VAL:O	2.23	0.55
1:Y:252:TYR:OH	1:Y:372:VAL:O	2.23	0.55
1:b:296:TRP:NE1	1:b:300:ILE:HD11	2.22	0.55
1:f:296:TRP:NE1	1:f:300:ILE:HD11	2.22	0.55
1:g:234:TRP:CG	1:g:298[B]:ARG:HE	2.24	0.55
1:m:234:TRP:CD2	1:m:298[B]:ARG:HD3	2.42	0.55
1:n:431:ASP:HB3	1:n:432:ARG:NH1	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:231:ASP:H	1:p:242:THR:HB	1.71	0.55
1:p:353:VAL:H	1:p:645:GLN:NE2	2.04	0.55
1:p:407:ASN:HD21	1:r:224:SER:H	1.53	0.55
1:v:231:ASP:H	1:v:242:THR:HB	1.71	0.55
1:x:500:TYR:CE2	1:8:448:THR:HG21	2.42	0.55
1:7:252:TYR:OH	1:7:372:VAL:O	2.23	0.55
1:D:231:ASP:H	1:D:242:THR:HB	1.71	0.55
1:N:296:TRP:NE1	1:N:300:ILE:HD11	2.22	0.55
1:P:234:TRP:CH2	1:P:298[B]:ARG:HB3	2.42	0.55
1:T:431:ASP:HB3	1:T:432:ARG:NH1	2.21	0.55
1:V:353:VAL:H	1:V:645:GLN:NE2	2.04	0.55
1:Z:500:TYR:CE2	1:k:448:THR:HG21	2.42	0.55
1:a:398:PHE:CE1	1:y:692:LYS:HG3	2.40	0.55
1:d:431:ASP:HB3	1:d:432:ARG:NH1	2.21	0.55
1:g:296:TRP:NE1	1:g:300:ILE:HD11	2.22	0.55
1:l:448:THR:HG21	1:u:500:TYR:CE2	2.42	0.55
1:n:234:TRP:CZ2	1:n:298[B]:ARG:HB3	2.42	0.55
1:s:398:PHE:CE1	1:1:692:LYS:HG3	2.41	0.55
1:s:699:GLN:H	1:8:701:THR:HG23	1.71	0.55
1:t:252:TYR:OH	1:t:372:VAL:O	2.23	0.55
1:u:296:TRP:NE1	1:u:300:ILE:HD11	2.22	0.55
1:z:231:ASP:H	1:z:242:THR:HB	1.72	0.55
1:2:229[B]:HIS:CD2	1:2:242:THR:HG21	2.42	0.55
1:3:231:ASP:OD1	1:3:232:SER:N	2.37	0.55
1:C:224:SER:H	1:c:407:ASN:HD21	1.56	0.54
1:C:296:TRP:NE1	1:C:300:ILE:HD11	2.22	0.54
1:P:252:TYR:OH	1:P:372:VAL:O	2.23	0.54
1:P:456:THR:O	1:X:497:ASN:ND2	2.35	0.54
1:e:234:TRP:CH2	1:e:298[B]:ARG:HB3	2.42	0.54
1:i:296:TRP:NE1	1:i:300:ILE:HD11	2.22	0.54
1:k:231:ASP:H	1:k:242:THR:HB	1.72	0.54
1:m:431:ASP:HB3	1:m:432:ARG:NH1	2.21	0.54
1:u:353:VAL:H	1:u:645:GLN:NE2	2.04	0.54
1:x:398:PHE:CE1	1:8:692:LYS:HG3	2.42	0.54
1:1:234:TRP:NE1	1:1:298[A]:ARG:NH1	2.55	0.54
1:B:302:ASN:HD21	1:X:302:ASN:HD21	1.54	0.54
1:B:699:GLN:H	1:X:701:THR:HG23	1.73	0.54
1:I:296:TRP:NE1	1:I:300:ILE:HD11	2.22	0.54
1:T:224:SER:H	1:n:407:ASN:HD21	1.54	0.54
1:T:231:ASP:H	1:T:242:THR:HB	1.71	0.54
1:V:296:TRP:NE1	1:V:300:ILE:HD11	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:431:ASP:HB3	1:V:432:ARG:NH1	2.21	0.54
1:X:231:ASP:H	1:X:242:THR:HB	1.72	0.54
1:Y:456:THR:O	1:t:497:ASN:ND2	2.35	0.54
1:c:296:TRP:NE1	1:c:300:ILE:HD11	2.22	0.54
1:i:353:VAL:H	1:i:645:GLN:NE2	2.04	0.54
1:l:296:TRP:NE1	1:l:300:ILE:HD11	2.22	0.54
1:m:231:ASP:H	1:m:242:THR:HB	1.72	0.54
1:p:296:TRP:NE1	1:p:300:ILE:HD11	2.22	0.54
1:r:229[B]:HIS:CD2	1:r:242:THR:HG21	2.42	0.54
1:w:296:TRP:NE1	1:w:300:ILE:HD11	2.22	0.54
1:8:231:ASP:H	1:8:242:THR:HB	1.71	0.54
1:C:398:PHE:CE1	1:t:692:LYS:HG3	2.40	0.54
1:E:296:TRP:NE1	1:E:300:ILE:HD11	2.22	0.54
1:E:448:THR:HG21	1:p:500:TYR:CE2	2.42	0.54
1:F:398:PHE:CE1	1:c:692:LYS:HG3	2.42	0.54
1:I:500:TYR:CE2	1:O:448:THR:HG21	2.43	0.54
1:N:353:VAL:H	1:N:645:GLN:NE2	2.04	0.54
1:O:296:TRP:NE1	1:O:300:ILE:HD11	2.22	0.54
1:O:500:TYR:CE2	1:6:448:THR:HG21	2.42	0.54
1:P:296:TRP:NE1	1:P:300:ILE:HD11	2.22	0.54
1:R:500:TYR:CE2	1:r:448:THR:HG21	2.42	0.54
1:b:231:ASP:H	1:b:242:THR:HB	1.71	0.54
1:e:296:TRP:NE1	1:e:300:ILE:HD11	2.22	0.54
1:j:296:TRP:NE1	1:j:300:ILE:HD11	2.22	0.54
1:j:699:GLN:H	1:5:701:THR:HG23	1.71	0.54
1:o:231:ASP:H	1:o:242:THR:HB	1.72	0.54
1:p:431:ASP:HB3	1:p:432:ARG:NH1	2.21	0.54
1:r:231:ASP:H	1:r:242:THR:HB	1.71	0.54
1:s:296:TRP:NE1	1:s:300:ILE:HD11	2.22	0.54
1:A:448:THR:HG21	1:n:500:TYR:CE2	2.42	0.54
1:B:407:ASN:HD21	1:G:224:SER:H	1.56	0.54
1:I:353:VAL:H	1:I:645:GLN:NE2	2.04	0.54
1:M:296:TRP:NE1	1:M:300:ILE:HD11	2.22	0.54
1:R:431:ASP:HB3	1:R:432:ARG:NH1	2.21	0.54
1:U:296:TRP:NE1	1:U:300:ILE:HD11	2.22	0.54
1:X:296:TRP:NE1	1:X:300:ILE:HD11	2.22	0.54
1:Y:448:THR:HG21	1:t:500:TYR:CE2	2.42	0.54
1:Z:224:SER:H	1:2:407:ASN:HD21	1.55	0.54
1:Z:231:ASP:H	1:Z:242:THR:HB	1.71	0.54
1:Z:296:TRP:NE1	1:Z:300:ILE:HD11	2.22	0.54
1:f:398:PHE:CE1	1:n:692:LYS:HG3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:296:TRP:NE1	1:h:300:ILE:HD11	2.22	0.54
1:o:296:TRP:NE1	1:o:300:ILE:HD11	2.22	0.54
1:q:407:ASN:HD21	1:w:224:SER:H	1.55	0.54
1:q:431:ASP:HB3	1:q:432:ARG:NH1	2.21	0.54
1:t:234:TRP:CH2	1:t:298[B]:ARG:HB3	2.42	0.54
1:3:296:TRP:NE1	1:3:300:ILE:HD11	2.22	0.54
1:A:224:SER:H	1:H:407:ASN:HD21	1.54	0.54
1:H:234:TRP:CH2	1:H:298[B]:ARG:HB3	2.42	0.54
1:S:231:ASP:H	1:S:242:THR:HB	1.72	0.54
1:Y:296:TRP:NE1	1:Y:300:ILE:HD11	2.22	0.54
1:a:296:TRP:NE1	1:a:300:ILE:HD11	2.22	0.54
1:c:500:TYR:CE2	1:3:448:THR:HG21	2.42	0.54
1:t:296:TRP:NE1	1:t:300:ILE:HD11	2.22	0.54
1:t:407:ASN:HD21	1:7:224:SER:H	1.54	0.54
1:y:296:TRP:NE1	1:y:300:ILE:HD11	2.22	0.54
1:7:296:TRP:NE1	1:7:300:ILE:HD11	2.22	0.54
1:8:296:TRP:NE1	1:8:300:ILE:HD11	2.22	0.54
1:G:296:TRP:NE1	1:G:300:ILE:HD11	2.22	0.54
1:G:448:THR:HG21	1:g:500:TYR:CE2	2.42	0.54
1:J:296:TRP:NE1	1:J:300:ILE:HD11	2.22	0.54
1:K:229[B]:HIS:CD2	1:K:242:THR:HG21	2.42	0.54
1:K:231:ASP:H	1:K:242:THR:HB	1.72	0.54
1:L:353:VAL:H	1:L:645:GLN:NE2	2.04	0.54
1:N:500:TYR:CE2	1:V:448:THR:HG21	2.43	0.54
1:Q:500:TYR:CE2	1:Z:448:THR:HG21	2.43	0.54
1:e:692:LYS:HG3	1:y:398:PHE:CE1	2.42	0.54
1:p:234:TRP:CG	1:p:298[B]:ARG:HE	2.24	0.54
1:r:296:TRP:NE1	1:r:300:ILE:HD11	2.22	0.54
1:w:234:TRP:CH2	1:w:298[B]:ARG:HB3	2.42	0.54
1:2:296:TRP:NE1	1:2:300:ILE:HD11	2.22	0.54
1:A:500:TYR:CE2	1:f:448:THR:HG21	2.42	0.54
1:C:500:TYR:CE2	1:t:448:THR:HG21	2.43	0.54
1:F:296:TRP:NE1	1:F:300:ILE:HD11	2.22	0.54
1:H:296:TRP:NE1	1:H:300:ILE:HD11	2.22	0.54
1:I:252:TYR:OH	1:I:372:VAL:O	2.23	0.54
1:J:692:LYS:HG3	1:1:398:PHE:CE1	2.42	0.54
1:K:296:TRP:NE1	1:K:300:ILE:HD11	2.22	0.54
1:O:224:SER:H	1:r:407:ASN:HD21	1.55	0.54
1:O:627:HIS:CD2	1:O:630:PRO:HG3	2.43	0.54
1:S:296:TRP:NE1	1:S:300:ILE:HD11	2.22	0.54
1:V:224:SER:H	1:f:407:ASN:HD21	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:627:HIS:CD2	1:a:630:PRO:HG3	2.43	0.54
1:a:692:LYS:HG3	1:e:398:PHE:CE1	2.41	0.54
1:f:231:ASP:H	1:f:242:THR:HB	1.72	0.54
1:l:627:HIS:CD2	1:l:630:PRO:HG3	2.43	0.54
1:x:296:TRP:NE1	1:x:300:ILE:HD11	2.22	0.54
1:z:353:VAL:H	1:z:645:GLN:NE2	2.04	0.54
1:5:296:TRP:NE1	1:5:300:ILE:HD11	2.22	0.54
1:B:224:SER:H	1:K:407:ASN:HD21	1.56	0.54
1:B:296:TRP:NE1	1:B:300:ILE:HD11	2.22	0.54
1:C:448:THR:HG21	1:Y:500:TYR:CE2	2.43	0.54
1:E:500:TYR:CE2	1:i:448:THR:HG21	2.43	0.54
1:E:692:LYS:HG3	1:p:398:PHE:CE1	2.43	0.54
1:G:627:HIS:CD2	1:G:630:PRO:HG3	2.43	0.54
1:I:627:HIS:CD2	1:I:630:PRO:HG3	2.43	0.54
1:L:500:TYR:CE2	1:R:448:THR:HG21	2.43	0.54
1:V:627:HIS:CD2	1:V:630:PRO:HG3	2.43	0.54
1:W:296:TRP:NE1	1:W:300:ILE:HD11	2.22	0.54
1:e:407:ASN:HD21	1:g:224:SER:H	1.56	0.54
1:p:627:HIS:CD2	1:p:630:PRO:HG3	2.43	0.54
1:1:296:TRP:NE1	1:1:300:ILE:HD11	2.22	0.54
1:3:627:HIS:CD2	1:3:630:PRO:HG3	2.43	0.54
1:4:231:ASP:H	1:4:242:THR:HB	1.72	0.54
1:A:302:ASN:HD21	1:T:302:ASN:HD21	1.56	0.54
1:B:627:HIS:CD2	1:B:630:PRO:HG3	2.43	0.54
1:D:296:TRP:NE1	1:D:300:ILE:HD11	2.22	0.54
1:D:692:LYS:HG3	1:8:398:PHE:CE1	2.42	0.54
1:Q:296:TRP:NE1	1:Q:300:ILE:HD11	2.22	0.54
1:V:500:TYR:CE2	1:w:448:THR:HG21	2.43	0.54
1:W:252:TYR:OH	1:W:372:VAL:O	2.23	0.54
1:a:500:TYR:CE2	1:y:448:THR:HG21	2.43	0.54
1:m:234:TRP:CH2	1:m:298[B]:ARG:HB3	2.42	0.54
1:p:234:TRP:NE1	1:p:298[A]:ARG:HH11	2.06	0.54
1:t:627:HIS:CD2	1:t:630:PRO:HG3	2.43	0.54
1:u:252:TYR:OH	1:u:372:VAL:O	2.23	0.54
1:u:627:HIS:CD2	1:u:630:PRO:HG3	2.43	0.54
1:v:234:TRP:CD2	1:v:298[A]:ARG:HD2	2.42	0.54
1:y:252:TYR:OH	1:y:372:VAL:O	2.23	0.54
1:6:296:TRP:NE1	1:6:300:ILE:HD11	2.22	0.54
1:8:252:TYR:OH	1:8:372:VAL:O	2.23	0.54
1:A:627:HIS:CD2	1:A:630:PRO:HG3	2.43	0.54
1:I:398:PHE:CE1	1:O:692:LYS:HG3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:701:THR:HG23	1:R:699:GLN:H	1.73	0.54
1:S:627:HIS:CD2	1:S:630:PRO:HG3	2.43	0.54
1:U:302:ASN:HD21	1:Z:302:ASN:HD21	1.56	0.54
1:V:699:GLN:H	1:n:701:THR:HG23	1.73	0.54
1:Z:252:TYR:OH	1:Z:372:VAL:O	2.23	0.54
1:c:497:ASN:ND2	1:3:456:THR:O	2.35	0.54
1:d:296:TRP:NE1	1:d:300:ILE:HD11	2.22	0.54
1:h:627:HIS:CD2	1:h:630:PRO:HG3	2.43	0.54
1:k:296:TRP:NE1	1:k:300:ILE:HD11	2.22	0.54
1:m:234:TRP:CZ2	1:m:298[A]:ARG:HB2	2.42	0.54
1:r:627:HIS:CD2	1:r:630:PRO:HG3	2.43	0.54
1:u:407:ASN:HD21	1:z:224:SER:H	1.56	0.54
1:v:627:HIS:CD2	1:v:630:PRO:HG3	2.43	0.54
1:1:627:HIS:CD2	1:1:630:PRO:HG3	2.43	0.54
1:3:234:TRP:CZ2	1:3:298[B]:ARG:HB3	2.43	0.54
1:4:296:TRP:NE1	1:4:300:ILE:HD11	2.22	0.54
1:6:252:TYR:OH	1:6:372:VAL:O	2.23	0.54
1:B:450:THR:HG1	1:B:461:GLN:HE22	1.56	0.53
1:C:699:GLN:H	1:3:701:THR:HG23	1.73	0.53
1:D:500:TYR:CE2	1:x:448:THR:HG21	2.43	0.53
1:F:252:TYR:OH	1:F:372:VAL:O	2.23	0.53
1:H:627:HIS:CD2	1:H:630:PRO:HG3	2.43	0.53
1:I:456:THR:O	1:6:497:ASN:ND2	2.34	0.53
1:K:627:HIS:CD2	1:K:630:PRO:HG3	2.43	0.53
1:M:627:HIS:CD2	1:M:630:PRO:HG3	2.43	0.53
1:P:231:ASP:H	1:P:242:THR:HB	1.72	0.53
1:V:252:TYR:OH	1:V:372:VAL:O	2.23	0.53
1:W:500:TYR:CE2	1:u:448:THR:HG21	2.43	0.53
1:X:627:HIS:CD2	1:X:630:PRO:HG3	2.43	0.53
1:Y:627:HIS:CD2	1:Y:630:PRO:HG3	2.43	0.53
1:b:407:ASN:HD21	1:p:224:SER:H	1.56	0.53
1:e:701:THR:HG23	1:u:699:GLN:H	1.73	0.53
1:f:627:HIS:CD2	1:f:630:PRO:HG3	2.43	0.53
1:j:500:TYR:CE2	1:4:448:THR:HG21	2.43	0.53
1:n:627:HIS:CD2	1:n:630:PRO:HG3	2.43	0.53
1:o:627:HIS:CD2	1:o:630:PRO:HG3	2.43	0.53
1:p:234:TRP:CD2	1:p:298[B]:ARG:NE	2.76	0.53
1:s:231:ASP:H	1:s:242:THR:HB	1.72	0.53
1:y:699:GLN:H	1:4:701:THR:HG23	1.73	0.53
1:4:234:TRP:CZ2	1:4:298[A]:ARG:HB2	2.42	0.53
1:4:627:HIS:CD2	1:4:630:PRO:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:296:TRP:NE1	1:A:300:ILE:HD11	2.22	0.53
1:F:295:ASP:OD1	1:F:298[A]:ARG:NH1	2.41	0.53
1:F:302:ASN:HD21	1:K:302:ASN:HD21	1.56	0.53
1:R:627:HIS:CD2	1:R:630:PRO:HG3	2.43	0.53
1:T:229[B]:HIS:CD2	1:T:242:THR:HG21	2.43	0.53
1:U:231:ASP:H	1:U:242:THR:HB	1.71	0.53
1:W:448:THR:HG21	1:l:500:TYR:CE2	2.43	0.53
1:Y:234:TRP:CH2	1:Y:298[A]:ARG:HB2	2.43	0.53
1:Y:701:THR:HG23	1:7:699:GLN:H	1.73	0.53
1:b:627:HIS:CD2	1:b:630:PRO:HG3	2.43	0.53
1:d:627:HIS:CD2	1:d:630:PRO:HG3	2.43	0.53
1:l:692:LYS:HG3	1:u:398:PHE:CE1	2.42	0.53
1:m:627:HIS:CD2	1:m:630:PRO:HG3	2.43	0.53
1:n:229[A]:HIS:HE1	1:n:314:LYS:HZ2	1.56	0.53
1:n:296:TRP:NE1	1:n:300:ILE:HD11	2.22	0.53
1:q:234:TRP:NE1	1:q:298[A]:ARG:NH1	2.55	0.53
1:q:296:TRP:NE1	1:q:300:ILE:HD11	2.22	0.53
1:q:627:HIS:CD2	1:q:630:PRO:HG3	2.43	0.53
1:v:296:TRP:NE1	1:v:300:ILE:HD11	2.22	0.53
1:z:296:TRP:NE1	1:z:300:ILE:HD11	2.22	0.53
1:5:231:ASP:H	1:5:242:THR:HB	1.71	0.53
1:5:627:HIS:CD2	1:5:630:PRO:HG3	2.43	0.53
1:A:234:TRP:CH2	1:A:298[B]:ARG:HB3	2.44	0.53
1:A:398:PHE:CE1	1:f:692:LYS:HG3	2.42	0.53
1:C:692:LYS:HG3	1:Y:398:PHE:CE1	2.42	0.53
1:F:407:ASN:HD21	1:I:224:SER:H	1.55	0.53
1:G:500:TYR:CE2	1:7:448:THR:HG21	2.43	0.53
1:H:231:ASP:H	1:H:242:THR:HB	1.72	0.53
1:L:296:TRP:NE1	1:L:300:ILE:HD11	2.22	0.53
1:R:296:TRP:NE1	1:R:300:ILE:HD11	2.22	0.53
1:T:296:TRP:NE1	1:T:300:ILE:HD11	2.22	0.53
1:T:627:HIS:CD2	1:T:630:PRO:HG3	2.43	0.53
1:f:353:VAL:H	1:f:645:GLN:NE2	2.04	0.53
1:i:224:SER:H	1:w:407:ASN:HD21	1.54	0.53
1:m:296:TRP:NE1	1:m:300:ILE:HD11	2.22	0.53
1:o:448:THR:HG21	1:4:500:TYR:CE2	2.44	0.53
1:o:701:THR:HG23	1:1:699:GLN:H	1.74	0.53
1:s:224:SER:H	1:x:407:ASN:HD21	1.56	0.53
1:5:234:TRP:CE2	1:5:298[A]:ARG:HD2	2.43	0.53
1:5:353:VAL:H	1:5:645:GLN:NE2	2.04	0.53
1:6:627:HIS:CD2	1:6:630:PRO:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:627:HIS:CD2	1:7:630:PRO:HG3	2.43	0.53
1:A:407:ASN:HD21	1:Q:224:SER:H	1.56	0.53
1:H:353:VAL:H	1:H:645:GLN:NE2	2.04	0.53
1:J:448:THR:HG21	1:1:500:TYR:CE2	2.43	0.53
1:J:500:TYR:CE2	1:s:448:THR:HG21	2.44	0.53
1:L:692:LYS:HG3	1:r:398:PHE:CE1	2.44	0.53
1:P:450:THR:HG1	1:P:461:GLN:HE22	1.51	0.53
1:P:627:HIS:CD2	1:P:630:PRO:HG3	2.43	0.53
1:P:692:LYS:HG3	1:X:398:PHE:CE1	2.43	0.53
1:Q:627:HIS:CD2	1:Q:630:PRO:HG3	2.43	0.53
1:W:224:SER:H	1:Z:407:ASN:HD21	1.56	0.53
1:W:627:HIS:CD2	1:W:630:PRO:HG3	2.43	0.53
1:b:353:VAL:H	1:b:645:GLN:NE2	2.04	0.53
1:b:692:LYS:HG3	1:v:398:PHE:CE1	2.42	0.53
1:d:500:TYR:CE2	1:v:448:THR:HG21	2.43	0.53
1:g:234:TRP:NE1	1:g:298[A]:ARG:HH11	2.06	0.53
1:h:448:THR:HG21	1:m:500:TYR:CE2	2.44	0.53
1:j:231:ASP:H	1:j:242:THR:HB	1.71	0.53
1:j:234:TRP:CE2	1:j:298[A]:ARG:HD2	2.43	0.53
1:m:448:THR:HG21	1:5:500:TYR:CE2	2.43	0.53
1:n:234:TRP:CZ3	1:n:298[B]:ARG:HG2	2.44	0.53
1:p:252:TYR:OH	1:p:372:VAL:O	2.23	0.53
1:x:627:HIS:CD2	1:x:630:PRO:HG3	2.43	0.53
1:6:229[A]:HIS:HE1	1:6:314:LYS:HZ1	1.56	0.53
1:E:234:TRP:CH2	1:E:298[B]:ARG:HB3	2.44	0.53
1:F:500:TYR:CE2	1:c:448:THR:HG21	2.42	0.53
1:N:692:LYS:HG3	1:w:398:PHE:CE1	2.44	0.53
1:b:500:TYR:CE2	1:d:448:THR:HG21	2.44	0.53
1:b:701:THR:HG23	1:x:699:GLN:H	1.73	0.53
1:l:353:VAL:H	1:l:645:GLN:NE2	2.04	0.53
1:1:450:THR:HG1	1:1:461:GLN:HE22	1.56	0.53
1:D:448:THR:HG21	1:8:500:TYR:CE2	2.43	0.53
1:E:252:TYR:OH	1:E:372:VAL:O	2.23	0.53
1:F:627:HIS:CD2	1:F:630:PRO:HG3	2.43	0.53
1:G:699:GLN:H	1:2:701:THR:HG23	1.73	0.53
1:I:302:ASN:HD21	1:c:302:ASN:HD21	1.57	0.53
1:L:627:HIS:CD2	1:L:630:PRO:HG3	2.43	0.53
1:M:250:PRO:HG3	1:M:371:MET:HE3	1.91	0.53
1:N:234:TRP:CH2	1:N:298[A]:ARG:HB2	2.43	0.53
1:O:398:PHE:CE1	1:6:692:LYS:HG3	2.41	0.53
1:Y:699:GLN:H	1:7:701:THR:HG23	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:250:PRO:HG3	1:a:371:MET:HE3	1.91	0.53
1:a:252:TYR:OH	1:a:372:VAL:O	2.23	0.53
1:b:234:TRP:CH2	1:b:298[B]:ARG:HB3	2.42	0.53
1:g:692:LYS:HG3	1:7:398:PHE:CE1	2.42	0.53
1:h:250:PRO:HG3	1:h:371:MET:HE3	1.91	0.53
1:h:353:VAL:H	1:h:645:GLN:NE2	2.04	0.53
1:j:627:HIS:CD2	1:j:630:PRO:HG3	2.43	0.53
1:y:627:HIS:CD2	1:y:630:PRO:HG3	2.43	0.53
1:z:627:HIS:CD2	1:z:630:PRO:HG3	2.43	0.53
1:3:250:PRO:HG3	1:3:371:MET:HE3	1.91	0.53
1:B:448:THR:HG21	1:U:500:TYR:CE2	2.43	0.53
1:E:627:HIS:CD2	1:E:630:PRO:HG3	2.43	0.53
1:F:699:GLN:H	1:K:701:THR:HG23	1.74	0.53
1:H:692:LYS:HG3	1:M:398:PHE:CE1	2.43	0.53
1:L:398:PHE:CE1	1:R:692:LYS:HG3	2.43	0.53
1:M:229[B]:HIS:HD2	1:M:242:THR:HG21	1.74	0.53
1:O:353:VAL:H	1:O:645:GLN:NE2	2.04	0.53
1:d:224:SER:H	1:i:407:ASN:HD21	1.56	0.53
1:j:250:PRO:HG3	1:j:371:MET:HE3	1.91	0.53
1:k:627:HIS:CD2	1:k:630:PRO:HG3	2.43	0.53
1:q:448:THR:HG21	1:z:500:TYR:CE2	2.43	0.53
1:w:627:HIS:CD2	1:w:630:PRO:HG3	2.43	0.53
1:8:627:HIS:CD2	1:8:630:PRO:HG3	2.43	0.53
1:D:627:HIS:CD2	1:D:630:PRO:HG3	2.43	0.53
1:K:497:ASN:ND2	1:X:456:THR:O	2.35	0.53
1:M:353:VAL:H	1:M:645:GLN:NE2	2.04	0.53
1:O:497:ASN:ND2	1:6:456:THR:O	2.35	0.53
1:P:250:PRO:HG3	1:P:371:MET:HE3	1.91	0.53
1:S:448:THR:HG21	1:q:500:TYR:CE2	2.43	0.53
1:U:627:HIS:CD2	1:U:630:PRO:HG3	2.43	0.53
1:Y:692:LYS:HG3	1:t:398:PHE:CE1	2.43	0.53
1:Z:627:HIS:CD2	1:Z:630:PRO:HG3	2.43	0.53
1:b:250:PRO:HG3	1:b:371:MET:HE3	1.91	0.53
1:b:448:THR:HG21	1:v:500:TYR:CE2	2.43	0.53
1:c:398:PHE:CE1	1:3:692:LYS:HG3	2.43	0.53
1:j:448:THR:HG21	1:o:500:TYR:CE2	2.44	0.53
1:l:699:GLN:H	1:z:701:THR:HG23	1.74	0.53
1:m:692:LYS:HG3	1:5:398:PHE:CE1	2.41	0.53
1:m:701:THR:HG23	1:v:699:GLN:H	1.73	0.53
1:s:500:TYR:CE2	1:1:448:THR:HG21	2.43	0.53
1:s:627:HIS:CD2	1:s:630:PRO:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:407:ASN:HD21	1:x:224:SER:H	1.56	0.53
1:w:252:TYR:OH	1:w:372:VAL:O	2.23	0.53
1:5:234:TRP:CZ2	1:5:298[A]:ARG:HB2	2.43	0.53
1:8:627:HIS:HD2	1:8:630:PRO:HG3	1.74	0.53
1:D:252:TYR:OH	1:D:372:VAL:O	2.23	0.53
1:D:407:ASN:HD21	1:b:224:SER:H	1.57	0.53
1:F:627:HIS:HD2	1:F:630:PRO:HG3	1.74	0.53
1:G:234:TRP:CH2	1:G:298[B]:ARG:HB3	2.44	0.53
1:H:497:ASN:ND2	1:T:456:THR:O	2.36	0.53
1:L:250:PRO:HG3	1:L:371:MET:HE3	1.91	0.53
1:Q:352:TYR:CZ	1:Q:354:LEU:HB2	2.44	0.53
1:Z:627:HIS:HD2	1:Z:630:PRO:HG3	1.74	0.53
1:a:353:VAL:H	1:a:645:GLN:NE2	2.04	0.53
1:c:627:HIS:CD2	1:c:630:PRO:HG3	2.43	0.53
1:e:627:HIS:CD2	1:e:630:PRO:HG3	2.43	0.53
1:f:250:PRO:HG3	1:f:371:MET:HE3	1.91	0.53
1:g:250:PRO:HG3	1:g:371:MET:HE3	1.91	0.53
1:h:701:THR:HG23	1:q:699:GLN:H	1.74	0.53
1:k:252:TYR:OH	1:k:372:VAL:O	2.23	0.53
1:k:353:VAL:H	1:k:645:GLN:NE2	2.04	0.53
1:v:352:TYR:CZ	1:v:354:LEU:HB2	2.44	0.53
1:y:627:HIS:HD2	1:y:630:PRO:HG3	1.74	0.53
1:z:250:PRO:HG3	1:z:371:MET:HE3	1.91	0.53
1:3:234:TRP:CZ3	1:3:298[B]:ARG:HG2	2.44	0.53
1:A:352:TYR:CZ	1:A:354:LEU:HB2	2.44	0.53
1:D:352:TYR:CZ	1:D:354:LEU:HB2	2.44	0.53
1:E:224:SER:H	1:R:407:ASN:HD21	1.57	0.53
1:F:224:SER:H	1:P:407:ASN:HD21	1.55	0.53
1:I:699:GLN:H	1:c:701:THR:HG23	1.74	0.53
1:J:250:PRO:HG3	1:J:371:MET:HE3	1.91	0.53
1:L:302:ASN:HD21	1:O:302:ASN:HD21	1.57	0.53
1:N:627:HIS:CD2	1:N:630:PRO:HG3	2.43	0.53
1:Q:699:GLN:H	1:f:701:THR:HG23	1.74	0.53
1:R:224:SER:H	1:T:407:ASN:HD21	1.55	0.53
1:W:407:ASN:HD21	1:e:224:SER:H	1.57	0.53
1:X:250:PRO:HG3	1:X:371:MET:HE3	1.91	0.53
1:X:352:TYR:CZ	1:X:354:LEU:HB2	2.44	0.53
1:Y:627:HIS:HD2	1:Y:630:PRO:HG3	1.74	0.53
1:b:352:TYR:CZ	1:b:354:LEU:HB2	2.44	0.53
1:f:352:TYR:CZ	1:f:354:LEU:HB2	2.45	0.53
1:k:352:TYR:CZ	1:k:354:LEU:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:250:PRO:HG3	1:n:371:MET:HE3	1.91	0.53
1:o:352:TYR:CZ	1:o:354:LEU:HB2	2.44	0.53
1:p:250:PRO:HG3	1:p:371:MET:HE3	1.91	0.53
1:r:250:PRO:HG3	1:r:371:MET:HE3	1.91	0.53
1:x:252:TYR:OH	1:x:372:VAL:O	2.23	0.53
1:3:252:TYR:OH	1:3:372:VAL:O	2.23	0.53
1:7:627:HIS:HD2	1:7:630:PRO:HG3	1.74	0.53
1:C:250:PRO:HG3	1:C:371:MET:HE3	1.91	0.52
1:C:302:ASN:HD21	1:3:302:ASN:HD21	1.56	0.52
1:D:353:VAL:H	1:D:645:GLN:NE2	2.04	0.52
1:L:229[B]:HIS:CD2	1:L:242:THR:HG21	2.44	0.52
1:R:250:PRO:HG3	1:R:371:MET:HE3	1.91	0.52
1:S:250:PRO:HG3	1:S:371:MET:HE3	1.91	0.52
1:Y:352:TYR:CZ	1:Y:354:LEU:HB2	2.44	0.52
1:c:352:TYR:CZ	1:c:354:LEU:HB2	2.44	0.52
1:d:250:PRO:HG3	1:d:371:MET:HE3	1.91	0.52
1:e:352:TYR:CZ	1:e:354:LEU:HB2	2.44	0.52
1:h:500:TYR:CE2	1:5:448:THR:HG21	2.44	0.52
1:i:627:HIS:CD2	1:i:630:PRO:HG3	2.43	0.52
1:j:234:TRP:CZ2	1:j:298[A]:ARG:HB2	2.43	0.52
1:o:250:PRO:HG3	1:o:371:MET:HE3	1.91	0.52
1:q:250:PRO:HG3	1:q:371:MET:HE3	1.91	0.52
1:x:352:TYR:CZ	1:x:354:LEU:HB2	2.45	0.52
1:1:627:HIS:HD2	1:1:630:PRO:HG3	1.74	0.52
1:2:627:HIS:CD2	1:2:630:PRO:HG3	2.43	0.52
1:3:353:VAL:H	1:3:645:GLN:NE2	2.04	0.52
1:B:627:HIS:HD2	1:B:630:PRO:HG3	1.74	0.52
1:K:627:HIS:HD2	1:K:630:PRO:HG3	1.74	0.52
1:L:701:THR:HG23	1:O:699:GLN:H	1.74	0.52
1:P:352:TYR:CZ	1:P:354:LEU:HB2	2.44	0.52
1:Q:252:TYR:OH	1:Q:372:VAL:O	2.23	0.52
1:S:234:TRP:CZ2	1:S:298[A]:ARG:HB2	2.45	0.52
1:T:627:HIS:HD2	1:T:630:PRO:HG3	1.74	0.52
1:U:456:THR:O	1:2:497:ASN:ND2	2.33	0.52
1:U:627:HIS:HD2	1:U:630:PRO:HG3	1.74	0.52
1:V:250:PRO:HG3	1:V:371:MET:HE3	1.91	0.52
1:a:352:TYR:CZ	1:a:354:LEU:HB2	2.44	0.52
1:h:627:HIS:HD2	1:h:630:PRO:HG3	1.74	0.52
1:j:352:TYR:CZ	1:j:354:LEU:HB2	2.44	0.52
1:j:428:GLN:NE2	1:o:351:PRO:HB3	2.24	0.52
1:q:234:TRP:CD2	1:q:298[A]:ARG:HD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:627:HIS:HD2	1:s:630:PRO:HG3	1.74	0.52
1:2:250:PRO:HG3	1:2:371:MET:HE3	1.91	0.52
1:5:250:PRO:HG3	1:5:371:MET:HE3	1.91	0.52
1:5:352:TYR:CZ	1:5:354:LEU:HB2	2.44	0.52
1:7:352:TYR:CZ	1:7:354:LEU:HB2	2.44	0.52
1:F:234:TRP:CH2	1:F:298[B]:ARG:HB3	2.44	0.52
1:H:352:TYR:CZ	1:H:354:LEU:HB2	2.44	0.52
1:H:398:PHE:CE1	1:T:692:LYS:HG3	2.42	0.52
1:J:627:HIS:CD2	1:J:630:PRO:HG3	2.43	0.52
1:R:352:TYR:CZ	1:R:354:LEU:HB2	2.44	0.52
1:U:352:TYR:CZ	1:U:354:LEU:HB2	2.44	0.52
1:W:692:LYS:HG3	1:l:398:PHE:CE1	2.42	0.52
1:h:351:PRO:HB3	1:5:428:GLN:NE2	2.24	0.52
1:l:456:THR:O	1:u:497:ASN:ND2	2.35	0.52
1:s:352:TYR:CZ	1:s:354:LEU:HB2	2.44	0.52
1:3:352:TYR:CZ	1:3:354:LEU:HB2	2.44	0.52
1:6:250:PRO:HG3	1:6:371:MET:HE3	1.91	0.52
1:A:699:GLN:H	1:T:701:THR:HG23	1.73	0.52
1:B:352:TYR:CZ	1:B:354:LEU:HB2	2.44	0.52
1:C:627:HIS:CD2	1:C:630:PRO:HG3	2.43	0.52
1:D:302:ASN:HD21	1:6:302:ASN:HD21	1.57	0.52
1:F:456:THR:O	1:3:497:ASN:ND2	2.35	0.52
1:G:627:HIS:HD2	1:G:630:PRO:HG3	1.74	0.52
1:H:250:PRO:HG3	1:H:371:MET:HE3	1.91	0.52
1:J:234:TRP:CZ2	1:J:298[A]:ARG:HB2	2.45	0.52
1:J:234:TRP:CH2	1:J:298[B]:ARG:HB3	2.45	0.52
1:M:627:HIS:HD2	1:M:630:PRO:HG3	1.74	0.52
1:N:627:HIS:HD2	1:N:630:PRO:HG3	1.74	0.52
1:N:701:THR:HG23	1:i:699:GLN:H	1.73	0.52
1:O:627:HIS:HD2	1:O:630:PRO:HG3	1.74	0.52
1:S:500:TYR:CE2	1:z:448:THR:HG21	2.44	0.52
1:T:352:TYR:CZ	1:T:354:LEU:HB2	2.44	0.52
1:W:250:PRO:HG3	1:W:371:MET:HE3	1.91	0.52
1:e:448:THR:HG21	1:y:500:TYR:CE2	2.43	0.52
1:h:407:ASN:HD21	1:j:224:SER:H	1.57	0.52
1:k:689:GLU:OE1	1:k:689:GLU:N	2.40	0.52
1:l:627:HIS:HD2	1:l:630:PRO:HG3	1.74	0.52
1:m:627:HIS:HD2	1:m:630:PRO:HG3	1.74	0.52
1:o:407:ASN:HD21	1:5:224:SER:H	1.57	0.52
1:q:352:TYR:CZ	1:q:354:LEU:HB2	2.44	0.52
1:t:627:HIS:HD2	1:t:630:PRO:HG3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:234:TRP:NE1	1:v:298[A]:ARG:NH1	2.58	0.52
1:4:250:PRO:HG3	1:4:371:MET:HE3	1.91	0.52
1:4:627:HIS:HD2	1:4:630:PRO:HG3	1.74	0.52
1:A:295:ASP:OD1	1:A:298[A]:ARG:NH1	2.40	0.52
1:C:352:TYR:CZ	1:C:354:LEU:HB2	2.44	0.52
1:D:250:PRO:HG3	1:D:371:MET:HE3	1.91	0.52
1:G:407:ASN:HD21	1:Y:224:SER:H	1.56	0.52
1:I:250:PRO:HG3	1:I:371:MET:HE3	1.91	0.52
1:K:250:PRO:HG3	1:K:371:MET:HE3	1.91	0.52
1:L:699:GLN:H	1:O:701:THR:HG23	1.75	0.52
1:S:407:ASN:HD21	1:l:224:SER:H	1.57	0.52
1:U:252:TYR:OH	1:U:372:VAL:O	2.23	0.52
1:X:627:HIS:HD2	1:X:630:PRO:HG3	1.74	0.52
1:Y:302:ASN:HD21	1:7:302:ASN:HD21	1.57	0.52
1:a:224:SER:H	1:7:407:ASN:HD21	1.56	0.52
1:b:689:GLU:OE1	1:b:689:GLU:N	2.40	0.52
1:d:352:TYR:CZ	1:d:354:LEU:HB2	2.44	0.52
1:g:352:TYR:CZ	1:g:354:LEU:HB2	2.44	0.52
1:h:224:SER:H	1:z:407:ASN:HD21	1.57	0.52
1:i:627:HIS:HD2	1:i:630:PRO:HG3	1.74	0.52
1:i:689:GLU:OE1	1:i:689:GLU:N	2.40	0.52
1:k:250:PRO:HG3	1:k:371:MET:HE3	1.91	0.52
1:n:234:TRP:CG	1:n:298[B]:ARG:HE	2.27	0.52
1:n:352:TYR:CZ	1:n:354:LEU:HB2	2.44	0.52
1:r:627:HIS:HD2	1:r:630:PRO:HG3	1.74	0.52
1:s:252:TYR:OH	1:s:372:VAL:O	2.23	0.52
1:u:224:SER:H	1:y:407:ASN:HD21	1.56	0.52
1:u:250:PRO:HG3	1:u:371:MET:HE3	1.91	0.52
1:B:456:THR:O	1:U:497:ASN:ND2	2.37	0.52
1:C:627:HIS:HD2	1:C:630:PRO:HG3	1.74	0.52
1:D:689:GLU:OE1	1:D:689:GLU:N	2.40	0.52
1:H:699:GLN:H	1:P:701:THR:HG23	1.75	0.52
1:K:352:TYR:CZ	1:K:354:LEU:HB2	2.44	0.52
1:M:689:GLU:OE1	1:M:689:GLU:N	2.40	0.52
1:N:699:GLN:H	1:i:701:THR:HG23	1.73	0.52
1:S:627:HIS:HD2	1:S:630:PRO:HG3	1.74	0.52
1:W:302:ASN:HD21	1:k:302:ASN:HD21	1.57	0.52
1:W:352:TYR:CZ	1:W:354:LEU:HB2	2.44	0.52
1:g:234:TRP:NE1	1:g:298[A]:ARG:NH1	2.58	0.52
1:g:456:THR:O	1:7:497:ASN:ND2	2.35	0.52
1:g:627:HIS:HD2	1:g:630:PRO:HG3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:250:PRO:HG3	1:l:371:MET:HE3	1.91	0.52
1:o:627:HIS:HD2	1:o:630:PRO:HG3	1.74	0.52
1:w:627:HIS:HD2	1:w:630:PRO:HG3	1.74	0.52
1:1:352:TYR:CZ	1:1:354:LEU:HB2	2.44	0.52
1:4:352:TYR:CZ	1:4:354:LEU:HB2	2.44	0.52
1:A:692:LYS:HG3	1:n:398:PHE:CE1	2.44	0.52
1:H:252:TYR:OH	1:H:372:VAL:O	2.23	0.52
1:I:352:TYR:CZ	1:I:354:LEU:HB2	2.44	0.52
1:L:352:TYR:CZ	1:L:354:LEU:HB2	2.44	0.52
1:O:250:PRO:HG3	1:O:371:MET:HE3	1.91	0.52
1:Z:352:TYR:CZ	1:Z:354:LEU:HB2	2.44	0.52
1:j:351:PRO:HB3	1:4:428:GLN:NE2	2.25	0.52
1:m:352:TYR:CZ	1:m:354:LEU:HB2	2.44	0.52
1:n:689:GLU:OE1	1:n:689:GLU:N	2.40	0.52
1:u:352:TYR:CZ	1:u:354:LEU:HB2	2.45	0.52
1:z:352:TYR:CZ	1:z:354:LEU:HB2	2.44	0.52
1:3:234:TRP:CG	1:3:298[B]:ARG:HE	2.27	0.52
1:D:224:SER:H	1:O:407:ASN:HD21	1.56	0.52
1:E:627:HIS:HD2	1:E:630:PRO:HG3	1.74	0.52
1:H:620:LYS:HB2	1:H:642:PRO:HG3	1.92	0.52
1:I:692:LYS:HG3	1:6:398:PHE:CE1	2.45	0.52
1:J:352:TYR:CZ	1:J:354:LEU:HB2	2.44	0.52
1:M:302:ASN:HD21	1:R:302:ASN:HD21	1.56	0.52
1:O:352:TYR:CZ	1:O:354:LEU:HB2	2.44	0.52
1:Q:692:LYS:HG3	1:k:398:PHE:CE1	2.45	0.52
1:S:234:TRP:CH2	1:S:298[B]:ARG:HB3	2.45	0.52
1:U:229[B]:HIS:CD2	1:U:242:THR:HG21	2.44	0.52
1:a:448:THR:HG21	1:e:500:TYR:CE2	2.44	0.52
1:h:689:GLU:OE1	1:h:689:GLU:N	2.40	0.52
1:l:352:TYR:CZ	1:l:354:LEU:HB2	2.44	0.52
1:v:224:SER:H	1:5:407:ASN:HD21	1.57	0.52
1:w:352:TYR:CZ	1:w:354:LEU:HB2	2.44	0.52
1:2:352:TYR:CZ	1:2:354:LEU:HB2	2.44	0.52
1:6:352:TYR:CZ	1:6:354:LEU:HB2	2.44	0.52
1:8:352:TYR:CZ	1:8:354:LEU:HB2	2.44	0.52
1:C:450:THR:HG1	1:C:461:GLN:HE22	1.56	0.52
1:C:701:THR:HG23	1:3:699:GLN:H	1.75	0.52
1:D:701:THR:HG23	1:6:699:GLN:H	1.75	0.52
1:E:352:TYR:CZ	1:E:354:LEU:HB2	2.44	0.52
1:G:689:GLU:OE1	1:G:689:GLU:N	2.40	0.52
1:G:692:LYS:HG3	1:g:398:PHE:CE1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:620:LYS:HB2	1:I:642:PRO:HG3	1.92	0.52
1:M:692:LYS:HG3	1:T:398:PHE:CE1	2.43	0.52
1:N:250:PRO:HG3	1:N:371:MET:HE3	1.91	0.52
1:N:456:THR:O	1:w:497:ASN:ND2	2.35	0.52
1:V:352:TYR:CZ	1:V:354:LEU:HB2	2.44	0.52
1:d:689:GLU:OE1	1:d:689:GLU:N	2.40	0.52
1:e:252:TYR:OH	1:e:372:VAL:O	2.23	0.52
1:e:428:GLN:NE2	1:y:351:PRO:HB3	2.25	0.52
1:e:627:HIS:HD2	1:e:630:PRO:HG3	1.74	0.52
1:f:689:GLU:OE1	1:f:689:GLU:N	2.40	0.52
1:g:450:THR:HG1	1:g:461:GLN:HE22	1.56	0.52
1:g:627:HIS:CD2	1:g:630:PRO:HG3	2.43	0.52
1:o:428:GLN:NE2	1:4:351:PRO:HB3	2.25	0.52
1:s:701:THR:HG23	1:8:699:GLN:H	1.74	0.52
1:8:250:PRO:HG3	1:8:371:MET:HE3	1.91	0.52
1:E:234:TRP:CZ2	1:E:298[B]:ARG:HB3	2.45	0.52
1:E:699:GLN:H	1:r:701:THR:HG23	1.73	0.52
1:I:701:THR:HG23	1:c:699:GLN:H	1.75	0.52
1:L:620:LYS:HB2	1:L:642:PRO:HG3	1.92	0.52
1:Q:701:THR:HG23	1:f:699:GLN:H	1.75	0.52
1:W:627:HIS:HD2	1:W:630:PRO:HG3	1.74	0.52
1:Y:250:PRO:HG3	1:Y:371:MET:HE3	1.91	0.52
1:b:627:HIS:HD2	1:b:630:PRO:HG3	1.74	0.52
1:d:701:THR:HG23	1:p:699:GLN:H	1.75	0.52
1:f:627:HIS:HD2	1:f:630:PRO:HG3	1.74	0.52
1:k:450:THR:HG1	1:k:461:GLN:HE22	1.56	0.52
1:n:234:TRP:CZ2	1:n:298[A]:ARG:HB2	2.45	0.52
1:p:352:TYR:CZ	1:p:354:LEU:HB2	2.44	0.52
1:q:428:GLN:NE2	1:z:351:PRO:HB3	2.25	0.52
1:w:250:PRO:HG3	1:w:371:MET:HE3	1.91	0.52
1:y:352:TYR:CZ	1:y:354:LEU:HB2	2.44	0.52
1:z:620:LYS:HB2	1:z:642:PRO:HG3	1.93	0.52
1:1:234:TRP:CD2	1:1:298[A]:ARG:HD2	2.44	0.52
1:5:620:LYS:HB2	1:5:642:PRO:HG3	1.92	0.52
1:5:627:HIS:HD2	1:5:630:PRO:HG3	1.74	0.52
1:7:250:PRO:HG3	1:7:371:MET:HE3	1.91	0.52
1:A:250:PRO:HG3	1:A:371:MET:HE3	1.91	0.51
1:C:407:ASN:HD21	1:J:224:SER:H	1.58	0.51
1:E:407:ASN:HD21	1:N:224:SER:H	1.56	0.51
1:F:250:PRO:HG3	1:F:371:MET:HE3	1.91	0.51
1:H:627:HIS:HD2	1:H:630:PRO:HG3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:627:HIS:HD2	1:J:630:PRO:HG3	1.74	0.51
1:K:692:LYS:HG3	1:P:398:PHE:CE1	2.43	0.51
1:Q:234:TRP:CH2	1:Q:298[A]:ARG:HB2	2.45	0.51
1:Q:285:ASN:O	1:Q:617:ILE:N	2.40	0.51
1:S:428:GLN:NE2	1:q:351:PRO:HB3	2.26	0.51
1:U:699:GLN:H	1:Z:701:THR:HG23	1.74	0.51
1:V:302:ASN:HD21	1:n:302:ASN:HD21	1.56	0.51
1:c:627:HIS:HD2	1:c:630:PRO:HG3	1.74	0.51
1:d:407:ASN:HD21	1:m:224:SER:H	1.58	0.51
1:g:234:TRP:CZ2	1:g:298[A]:ARG:HB2	2.45	0.51
1:g:353:VAL:H	1:g:645:GLN:NE2	2.04	0.51
1:t:689:GLU:OE1	1:t:689:GLU:N	2.40	0.51
1:u:620:LYS:HB2	1:u:642:PRO:HG3	1.93	0.51
1:x:250:PRO:HG3	1:x:371:MET:HE3	1.91	0.51
1:y:250:PRO:HG3	1:y:371:MET:HE3	1.91	0.51
1:2:627:HIS:HD2	1:2:630:PRO:HG3	1.74	0.51
1:5:252:TYR:OH	1:5:372:VAL:O	2.23	0.51
1:6:627:HIS:HD2	1:6:630:PRO:HG3	1.74	0.51
1:B:250:PRO:HG3	1:B:371:MET:HE3	1.91	0.51
1:B:589:GLN:HA	1:U:496:ASN:HD22	1.76	0.51
1:C:353:VAL:H	1:C:645:GLN:NE2	2.04	0.51
1:D:450:THR:HG1	1:D:461:GLN:HE22	1.56	0.51
1:H:302:ASN:HD21	1:P:302:ASN:HD21	1.57	0.51
1:J:526:HIS:HB2	1:J:530:GLU:O	2.11	0.51
1:P:627:HIS:HD2	1:P:630:PRO:HG3	1.74	0.51
1:Q:250:PRO:HG3	1:Q:371:MET:HE3	1.91	0.51
1:T:526:HIS:HB2	1:T:530:GLU:O	2.11	0.51
1:U:250:PRO:HG3	1:U:371:MET:HE3	1.91	0.51
1:W:701:THR:HG23	1:k:699:GLN:H	1.75	0.51
1:Z:250:PRO:HG3	1:Z:371:MET:HE3	1.91	0.51
1:a:407:ASN:HD21	1:4:224:SER:H	1.58	0.51
1:a:620:LYS:HB2	1:a:642:PRO:HG3	1.92	0.51
1:c:250:PRO:HG3	1:c:371:MET:HE3	1.91	0.51
1:c:252:TYR:OH	1:c:372:VAL:O	2.23	0.51
1:d:526:HIS:HB2	1:d:530:GLU:O	2.11	0.51
1:e:250:PRO:HG3	1:e:371:MET:HE3	1.91	0.51
1:g:234:TRP:CD2	1:g:298[B]:ARG:NE	2.76	0.51
1:i:250:PRO:HG3	1:i:371:MET:HE3	1.91	0.51
1:m:407:ASN:HD21	1:q:224:SER:H	1.58	0.51
1:m:526:HIS:HB2	1:m:530:GLU:O	2.11	0.51
1:s:250:PRO:HG3	1:s:371:MET:HE3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:250:PRO:HG3	1:v:371:MET:HE3	1.91	0.51
1:1:250:PRO:HG3	1:1:371:MET:HE3	1.91	0.51
1:2:526:HIS:HB2	1:2:530:GLU:O	2.11	0.51
1:7:620:LYS:HB2	1:7:642:PRO:HG3	1.92	0.51
1:E:250:PRO:HG3	1:E:371:MET:HE3	1.91	0.51
1:F:352:TYR:CZ	1:F:354:LEU:HB2	2.44	0.51
1:G:234:TRP:CE2	1:G:298[B]:ARG:HD3	2.45	0.51
1:J:620:LYS:HB2	1:J:642:PRO:HG3	1.92	0.51
1:N:352:TYR:CZ	1:N:354:LEU:HB2	2.44	0.51
1:N:620:LYS:HB2	1:N:642:PRO:HG3	1.92	0.51
1:P:620:LYS:HB2	1:P:642:PRO:HG3	1.92	0.51
1:Y:285:ASN:O	1:Y:617:ILE:N	2.40	0.51
1:Y:620:LYS:HB2	1:Y:642:PRO:HG3	1.92	0.51
1:b:351:PRO:HB3	1:d:428:GLN:NE2	2.26	0.51
1:n:526:HIS:HB2	1:n:530:GLU:O	2.11	0.51
1:r:352:TYR:CZ	1:r:354:LEU:HB2	2.44	0.51
1:r:526:HIS:HB2	1:r:530:GLU:O	2.11	0.51
1:x:285:ASN:O	1:x:617:ILE:N	2.40	0.51
1:3:620:LYS:HB2	1:3:642:PRO:HG3	1.92	0.51
1:C:285:ASN:O	1:C:617:ILE:N	2.40	0.51
1:C:526:HIS:HB2	1:C:530:GLU:O	2.11	0.51
1:E:456:THR:O	1:p:497:ASN:ND2	2.35	0.51
1:G:234:TRP:CZ2	1:G:298[B]:ARG:HB3	2.45	0.51
1:G:250:PRO:HG3	1:G:371:MET:HE3	1.91	0.51
1:I:526:HIS:HB2	1:I:530:GLU:O	2.11	0.51
1:M:620:LYS:HB2	1:M:642:PRO:HG3	1.92	0.51
1:Q:627:HIS:HD2	1:Q:630:PRO:HG3	1.74	0.51
1:S:352:TYR:CZ	1:S:354:LEU:HB2	2.44	0.51
1:S:526:HIS:HB2	1:S:530:GLU:O	2.11	0.51
1:U:620:LYS:HB2	1:U:642:PRO:HG3	1.92	0.51
1:X:229[B]:HIS:HD2	1:X:242:THR:HG21	1.74	0.51
1:a:701:THR:HG23	1:g:699:GLN:H	1.75	0.51
1:c:526:HIS:HB2	1:c:530:GLU:O	2.11	0.51
1:e:456:THR:O	1:y:497:ASN:ND2	2.36	0.51
1:e:526:HIS:HB2	1:e:530:GLU:O	2.11	0.51
1:h:620:LYS:HB2	1:h:642:PRO:HG3	1.92	0.51
1:i:352:TYR:CZ	1:i:354:LEU:HB2	2.44	0.51
1:i:620:LYS:HB2	1:i:642:PRO:HG3	1.92	0.51
1:j:620:LYS:HB2	1:j:642:PRO:HG3	1.92	0.51
1:j:627:HIS:HD2	1:j:630:PRO:HG3	1.74	0.51
1:t:250:PRO:HG3	1:t:371:MET:HE3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:526:HIS:HB2	1:u:530:GLU:O	2.11	0.51
1:u:627:HIS:HD2	1:u:630:PRO:HG3	1.74	0.51
1:z:627:HIS:HD2	1:z:630:PRO:HG3	1.74	0.51
1:2:252:TYR:OH	1:2:372:VAL:O	2.23	0.51
1:2:620:LYS:HB2	1:2:642:PRO:HG3	1.93	0.51
1:3:627:HIS:HD2	1:3:630:PRO:HG3	1.74	0.51
1:6:620:LYS:HB2	1:6:642:PRO:HG3	1.92	0.51
1:8:620:LYS:HB2	1:8:642:PRO:HG3	1.92	0.51
1:A:526:HIS:HB2	1:A:530:GLU:O	2.11	0.51
1:A:701:THR:HG23	1:T:699:GLN:H	1.76	0.51
1:E:302:ASN:HD21	1:r:302:ASN:HD21	1.57	0.51
1:F:337:THR:HA	1:F:404:ARG:HH11	1.76	0.51
1:I:627:HIS:HD2	1:I:630:PRO:HG3	1.74	0.51
1:J:252:TYR:OH	1:J:372:VAL:O	2.23	0.51
1:L:627:HIS:HD2	1:L:630:PRO:HG3	1.74	0.51
1:P:526:HIS:HB2	1:P:530:GLU:O	2.11	0.51
1:Q:302:ASN:HD21	1:f:302:ASN:HD21	1.57	0.51
1:T:620:LYS:HB2	1:T:642:PRO:HG3	1.92	0.51
1:e:620:LYS:HB2	1:e:642:PRO:HG3	1.92	0.51
1:g:285:ASN:O	1:g:617:ILE:N	2.40	0.51
1:g:526:HIS:HB2	1:g:530:GLU:O	2.11	0.51
1:l:620:LYS:HB2	1:l:642:PRO:HG3	1.92	0.51
1:n:252:TYR:OH	1:n:372:VAL:O	2.23	0.51
1:q:627:HIS:HD2	1:q:630:PRO:HG3	1.74	0.51
1:s:526:HIS:HB2	1:s:530:GLU:O	2.11	0.51
1:s:620:LYS:HB2	1:s:642:PRO:HG3	1.92	0.51
1:y:234:TRP:NE1	1:y:298[A]:ARG:NH1	2.58	0.51
1:3:234:TRP:CZ2	1:3:298[A]:ARG:HB2	2.45	0.51
1:E:689:GLU:OE1	1:E:689:GLU:N	2.40	0.51
1:G:526:HIS:HB2	1:G:530:GLU:O	2.11	0.51
1:M:352:TYR:CZ	1:M:354:LEU:HB2	2.44	0.51
1:R:526:HIS:HB2	1:R:530:GLU:O	2.11	0.51
1:U:526:HIS:HB2	1:U:530:GLU:O	2.11	0.51
1:W:620:LYS:HB2	1:W:642:PRO:HG3	1.92	0.51
1:a:627:HIS:HD2	1:a:630:PRO:HG3	1.74	0.51
1:b:526:HIS:HB2	1:b:530:GLU:O	2.11	0.51
1:c:620:LYS:HB2	1:c:642:PRO:HG3	1.92	0.51
1:d:620:LYS:HB2	1:d:642:PRO:HG3	1.92	0.51
1:e:234:TRP:CE2	1:e:298[B]:ARG:HD3	2.46	0.51
1:e:302:ASN:HD21	1:u:302:ASN:HD21	1.59	0.51
1:f:526:HIS:HB2	1:f:530:GLU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:526:HIS:HB2	1:j:530:GLU:O	2.11	0.51
1:k:526:HIS:HB2	1:k:530:GLU:O	2.11	0.51
1:m:250:PRO:HG3	1:m:371:MET:HE3	1.91	0.51
1:m:620:LYS:HB2	1:m:642:PRO:HG3	1.92	0.51
1:q:526:HIS:HB2	1:q:530:GLU:O	2.11	0.51
1:s:234:TRP:CD2	1:s:298[B]:ARG:HD3	2.46	0.51
1:t:352:TYR:CZ	1:t:354:LEU:HB2	2.44	0.51
1:t:526:HIS:HB2	1:t:530:GLU:O	2.11	0.51
1:v:526:HIS:HB2	1:v:530:GLU:O	2.11	0.51
1:w:689:GLU:OE1	1:w:689:GLU:N	2.40	0.51
1:x:627:HIS:HD2	1:x:630:PRO:HG3	1.74	0.51
1:y:337:THR:HA	1:y:404:ARG:HH11	1.76	0.51
1:7:285:ASN:O	1:7:617:ILE:N	2.40	0.51
1:B:500:TYR:CE2	1:2:448:THR:HG21	2.45	0.51
1:D:337:THR:HA	1:D:404:ARG:HH11	1.76	0.51
1:D:526:HIS:HB2	1:D:530:GLU:O	2.11	0.51
1:D:627:HIS:HD2	1:D:630:PRO:HG3	1.74	0.51
1:E:337:THR:HA	1:E:404:ARG:HH11	1.76	0.51
1:E:526:HIS:HB2	1:E:530:GLU:O	2.11	0.51
1:G:352:TYR:CZ	1:G:354:LEU:HB2	2.44	0.51
1:J:337:THR:HA	1:J:404:ARG:HH11	1.76	0.51
1:J:701:THR:HG23	1:t:699:GLN:H	1.75	0.51
1:K:398:PHE:CE1	1:X:692:LYS:HG3	2.43	0.51
1:K:620:LYS:HB2	1:K:642:PRO:HG3	1.92	0.51
1:L:229[B]:HIS:HD2	1:L:242:THR:HG21	1.76	0.51
1:L:497:ASN:ND2	1:R:456:THR:O	2.36	0.51
1:N:526:HIS:HB2	1:N:530:GLU:O	2.11	0.51
1:S:351:PRO:HB3	1:z:428:GLN:NE2	2.26	0.51
1:S:456:THR:O	1:q:497:ASN:ND2	2.36	0.51
1:X:526:HIS:HB2	1:X:530:GLU:O	2.11	0.51
1:Z:526:HIS:HB2	1:Z:530:GLU:O	2.11	0.51
1:Z:620:LYS:HB2	1:Z:642:PRO:HG3	1.93	0.51
1:a:351:PRO:HB3	1:y:428:GLN:NE2	2.25	0.51
1:a:428:GLN:NE2	1:e:351:PRO:HB3	2.26	0.51
1:b:428:GLN:NE2	1:v:351:PRO:HB3	2.25	0.51
1:d:351:PRO:HB3	1:v:428:GLN:NE2	2.25	0.51
1:h:352:TYR:CZ	1:h:354:LEU:HB2	2.44	0.51
1:i:526:HIS:HB2	1:i:530:GLU:O	2.11	0.51
1:k:337:THR:HA	1:k:404:ARG:HH11	1.76	0.51
1:l:337:THR:HA	1:l:404:ARG:HH11	1.76	0.51
1:m:428:GLN:NE2	1:5:351:PRO:HB3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:620:LYS:HB2	1:n:642:PRO:HG3	1.92	0.51
1:o:526:HIS:HB2	1:o:530:GLU:O	2.11	0.51
1:p:620:LYS:HB2	1:p:642:PRO:HG3	1.92	0.51
1:p:627:HIS:HD2	1:p:630:PRO:HG3	1.74	0.51
1:w:526:HIS:HB2	1:w:530:GLU:O	2.11	0.51
1:1:337:THR:HA	1:1:404:ARG:HH11	1.76	0.51
1:8:526:HIS:HB2	1:8:530:GLU:O	2.11	0.51
1:8:689:GLU:OE1	1:8:689:GLU:N	2.40	0.51
1:A:627:HIS:HD2	1:A:630:PRO:HG3	1.74	0.51
1:I:450:THR:HG1	1:I:461:GLN:HE22	1.56	0.51
1:K:337:THR:HA	1:K:404:ARG:HH11	1.76	0.51
1:M:456:THR:O	1:T:497:ASN:ND2	2.35	0.51
1:N:302:ASN:HD21	1:i:302:ASN:HD21	1.57	0.51
1:O:337:THR:HA	1:O:404:ARG:HH11	1.76	0.51
1:O:620:LYS:HB2	1:O:642:PRO:HG3	1.92	0.51
1:R:627:HIS:HD2	1:R:630:PRO:HG3	1.74	0.51
1:T:250:PRO:HG3	1:T:371:MET:HE3	1.91	0.51
1:b:337:THR:HA	1:b:404:ARG:HH11	1.76	0.51
1:l:234:TRP:HE1	1:l:298[A]:ARG:NH1	2.08	0.51
1:u:450:THR:HG1	1:u:461:GLN:HE22	1.56	0.51
1:5:337:THR:HA	1:5:404:ARG:HH11	1.76	0.51
1:B:337:THR:HA	1:B:404:ARG:HH11	1.76	0.51
1:B:692:LYS:HG3	1:U:398:PHE:CE1	2.45	0.51
1:E:234:TRP:CE2	1:E:298[B]:ARG:HD3	2.45	0.51
1:H:337:THR:HA	1:H:404:ARG:HH11	1.76	0.51
1:H:701:THR:HG23	1:P:699:GLN:H	1.75	0.51
1:J:351:PRO:HB3	1:s:428:GLN:NE2	2.26	0.51
1:J:407:ASN:HD21	1:8:224:SER:H	1.57	0.51
1:S:234:TRP:CE2	1:S:298[B]:ARG:HD3	2.46	0.51
1:V:627:HIS:HD2	1:V:630:PRO:HG3	1.74	0.51
1:f:337:THR:HA	1:f:404:ARG:HH11	1.76	0.51
1:k:620:LYS:HB2	1:k:642:PRO:HG3	1.92	0.51
1:l:302:ASN:HD21	1:z:302:ASN:HD21	1.59	0.51
1:l:428:GLN:NE2	1:u:351:PRO:HB3	2.26	0.51
1:o:224:SER:H	1:s:407:ASN:HD21	1.57	0.51
1:v:627:HIS:HD2	1:v:630:PRO:HG3	1.74	0.51
1:w:337:THR:HA	1:w:404:ARG:HH11	1.76	0.51
1:x:351:PRO:HB3	1:8:428:GLN:NE2	2.26	0.51
1:y:620:LYS:HB2	1:y:642:PRO:HG3	1.92	0.51
1:z:234:TRP:CD2	1:z:298[B]:ARG:HD3	2.46	0.51
1:2:337:THR:HA	1:2:404:ARG:HH11	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:337:THR:HA	1:4:404:ARG:HH11	1.76	0.51
1:4:620:LYS:HB2	1:4:642:PRO:HG3	1.92	0.51
1:D:620:LYS:HB2	1:D:642:PRO:HG3	1.92	0.51
1:G:497:ASN:ND2	1:7:456:THR:O	2.37	0.51
1:M:526:HIS:HB2	1:M:530:GLU:O	2.11	0.51
1:T:337:THR:HA	1:T:404:ARG:HH11	1.76	0.51
1:V:620:LYS:HB2	1:V:642:PRO:HG3	1.92	0.51
1:c:285:ASN:O	1:c:617:ILE:N	2.40	0.51
1:d:337:THR:HA	1:d:404:ARG:HH11	1.76	0.51
1:p:234:TRP:NE1	1:p:298[A]:ARG:NH1	2.58	0.51
1:w:620:LYS:HB2	1:w:642:PRO:HG3	1.92	0.51
1:x:286:ARG:HH21	1:x:614:GLN:HB2	1.76	0.51
1:A:286:ARG:HH21	1:A:614:GLN:HB2	1.76	0.50
1:B:286:ARG:HH21	1:B:614:GLN:HB2	1.77	0.50
1:B:620:LYS:HB2	1:B:642:PRO:HG3	1.92	0.50
1:E:234:TRP:CZ2	1:E:298[A]:ARG:HB2	2.46	0.50
1:F:692:LYS:HG3	1:3:398:PHE:CE1	2.45	0.50
1:F:701:THR:HG23	1:K:699:GLN:H	1.76	0.50
1:L:526:HIS:HB2	1:L:530:GLU:O	2.11	0.50
1:M:285:ASN:O	1:M:617:ILE:N	2.40	0.50
1:Q:337:THR:HA	1:Q:404:ARG:HH11	1.76	0.50
1:V:286:ARG:HH21	1:V:614:GLN:HB2	1.76	0.50
1:Z:689:GLU:OE1	1:Z:689:GLU:N	2.40	0.50
1:d:627:HIS:HD2	1:d:630:PRO:HG3	1.74	0.50
1:k:627:HIS:HD2	1:k:630:PRO:HG3	1.74	0.50
1:n:627:HIS:HD2	1:n:630:PRO:HG3	1.74	0.50
1:s:302:ASN:HD21	1:8:302:ASN:HD21	1.59	0.50
1:s:351:PRO:HB3	1:1:428:GLN:NE2	2.25	0.50
1:z:526:HIS:HB2	1:z:530:GLU:O	2.11	0.50
1:1:286:ARG:HH21	1:1:614:GLN:HB2	1.76	0.50
1:C:620:LYS:HB2	1:C:642:PRO:HG3	1.93	0.50
1:D:286:ARG:HH21	1:D:614:GLN:HB2	1.76	0.50
1:D:428:GLN:NE2	1:8:351:PRO:HB3	2.26	0.50
1:E:620:LYS:HB2	1:E:642:PRO:HG3	1.92	0.50
1:F:526:HIS:HB2	1:F:530:GLU:O	2.11	0.50
1:F:620:LYS:HB2	1:F:642:PRO:HG3	1.92	0.50
1:I:234:TRP:CH2	1:I:298[A]:ARG:HB2	2.46	0.50
1:I:509:HIS:ND1	1:I:514:ASP:OD1	2.40	0.50
1:Q:286:ARG:HH21	1:Q:614:GLN:HB2	1.77	0.50
1:Q:614:GLN:CD	1:Q:614:GLN:H	2.20	0.50
1:V:701:THR:HG23	1:n:699:GLN:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:497:ASN:ND2	1:y:456:THR:O	2.37	0.50
1:g:620:LYS:HB2	1:g:642:PRO:HG3	1.92	0.50
1:g:689:GLU:OE1	1:g:689:GLU:N	2.40	0.50
1:h:337:THR:HA	1:h:404:ARG:HH11	1.76	0.50
1:h:526:HIS:HB2	1:h:530:GLU:O	2.11	0.50
1:j:407:ASN:HD21	1:y:224:SER:H	1.57	0.50
1:n:337:THR:HA	1:n:404:ARG:HH11	1.76	0.50
1:p:286:ARG:HH21	1:p:614:GLN:HB2	1.77	0.50
1:t:286:ARG:HH21	1:t:614:GLN:HB2	1.76	0.50
1:u:286:ARG:HH21	1:u:614:GLN:HB2	1.76	0.50
1:v:286:ARG:HH21	1:v:614:GLN:HB2	1.77	0.50
1:x:614:GLN:H	1:x:614:GLN:CD	2.20	0.50
1:y:526:HIS:HB2	1:y:530:GLU:O	2.11	0.50
1:1:224:SER:H	1:4:407:ASN:HD21	1.57	0.50
1:1:509:HIS:ND1	1:1:514:ASP:OD1	2.40	0.50
1:1:620:LYS:HB2	1:1:642:PRO:HG3	1.92	0.50
1:4:689:GLU:OE1	1:4:689:GLU:N	2.40	0.50
1:8:286:ARG:HH21	1:8:614:GLN:HB2	1.76	0.50
1:E:286:ARG:HH21	1:E:614:GLN:HB2	1.77	0.50
1:E:351:PRO:HB3	1:i:428:GLN:NE2	2.27	0.50
1:J:234:TRP:CE2	1:J:298[B]:ARG:HD3	2.46	0.50
1:J:428:GLN:NE2	1:1:351:PRO:HB3	2.26	0.50
1:K:456:THR:O	1:P:497:ASN:ND2	2.36	0.50
1:M:337:THR:HA	1:M:404:ARG:HH11	1.76	0.50
1:N:428:GLN:NE2	1:w:351:PRO:HB3	2.26	0.50
1:O:614:GLN:H	1:O:614:GLN:CD	2.20	0.50
1:S:224:SER:H	1:V:407:ASN:HD21	1.58	0.50
1:V:614:GLN:CD	1:V:614:GLN:H	2.20	0.50
1:b:620:LYS:HB2	1:b:642:PRO:HG3	1.92	0.50
1:e:285:ASN:O	1:e:617:ILE:N	2.40	0.50
1:h:285:ASN:O	1:h:617:ILE:N	2.40	0.50
1:h:428:GLN:NE2	1:m:351:PRO:HB3	2.25	0.50
1:h:614:GLN:H	1:h:614:GLN:CD	2.20	0.50
1:j:689:GLU:OE1	1:j:689:GLU:N	2.40	0.50
1:l:614:GLN:CD	1:l:614:GLN:H	2.20	0.50
1:p:337:THR:HA	1:p:404:ARG:HH11	1.76	0.50
1:p:614:GLN:H	1:p:614:GLN:CD	2.20	0.50
1:r:234:TRP:CH2	1:r:298[A]:ARG:HB2	2.46	0.50
1:r:286:ARG:HH21	1:r:614:GLN:HB2	1.76	0.50
1:r:689:GLU:OE1	1:r:689:GLU:N	2.40	0.50
1:w:286:ARG:HH21	1:w:614:GLN:HB2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:689:GLU:OE1	1:5:689:GLU:N	2.40	0.50
1:B:526:HIS:HB2	1:B:530:GLU:O	2.11	0.50
1:D:614:GLN:H	1:D:614:GLN:CD	2.20	0.50
1:G:286:ARG:HH21	1:G:614:GLN:HB2	1.77	0.50
1:G:302:ASN:HD21	1:2:302:ASN:HD21	1.57	0.50
1:H:614:GLN:CD	1:H:614:GLN:H	2.20	0.50
1:H:689:GLU:OE1	1:H:689:GLU:N	2.40	0.50
1:I:286:ARG:HH21	1:I:614:GLN:HB2	1.77	0.50
1:K:689:GLU:OE1	1:K:689:GLU:N	2.40	0.50
1:N:337:THR:HA	1:N:404:ARG:HH11	1.76	0.50
1:O:252:TYR:OH	1:O:372:VAL:O	2.23	0.50
1:P:614:GLN:CD	1:P:614:GLN:H	2.20	0.50
1:S:286:ARG:HH21	1:S:614:GLN:HB2	1.76	0.50
1:S:701:THR:HG23	1:w:699:GLN:H	1.75	0.50
1:T:286:ARG:HH21	1:T:614:GLN:HB2	1.77	0.50
1:U:229[B]:HIS:HD2	1:U:242:THR:HG21	1.76	0.50
1:V:351:PRO:HB3	1:w:428:GLN:NE2	2.26	0.50
1:j:614:GLN:H	1:j:614:GLN:CD	2.20	0.50
1:k:286:ARG:HH21	1:k:614:GLN:HB2	1.77	0.50
1:k:614:GLN:CD	1:k:614:GLN:H	2.20	0.50
1:l:252:TYR:OH	1:l:372:VAL:O	2.23	0.50
1:m:286:ARG:HH21	1:m:614:GLN:HB2	1.77	0.50
1:m:337:THR:HA	1:m:404:ARG:HH11	1.76	0.50
1:n:234:TRP:CD2	1:n:298[B]:ARG:NE	2.79	0.50
1:n:614:GLN:CD	1:n:614:GLN:H	2.20	0.50
1:q:286:ARG:HH21	1:q:614:GLN:HB2	1.76	0.50
1:u:509:HIS:ND1	1:u:514:ASP:OD1	2.40	0.50
1:x:337:THR:HA	1:x:404:ARG:HH11	1.76	0.50
1:1:234:TRP:HE1	1:1:298[A]:ARG:NH1	2.10	0.50
1:1:526:HIS:HB2	1:1:530:GLU:O	2.11	0.50
1:B:509:HIS:ND1	1:B:514:ASP:OD1	2.40	0.50
1:C:689:GLU:OE1	1:C:689:GLU:N	2.40	0.50
1:D:351:PRO:HB3	1:x:428:GLN:NE2	2.26	0.50
1:E:701:THR:HG23	1:r:699:GLN:H	1.75	0.50
1:H:509:HIS:ND1	1:H:514:ASP:OD1	2.40	0.50
1:J:286:ARG:HH21	1:J:614:GLN:HB2	1.76	0.50
1:K:285:ASN:O	1:K:617:ILE:N	2.40	0.50
1:M:614:GLN:H	1:M:614:GLN:CD	2.20	0.50
1:Q:620:LYS:HB2	1:Q:642:PRO:HG3	1.93	0.50
1:R:286:ARG:HH21	1:R:614:GLN:HB2	1.76	0.50
1:R:614:GLN:H	1:R:614:GLN:CD	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:689:GLU:OE1	1:S:689:GLU:N	2.40	0.50
1:U:701:THR:HG23	1:Z:699:GLN:H	1.75	0.50
1:X:585:ARG:HG2	1:X:588:ARG:HB3	1.94	0.50
1:Z:286:ARG:HH21	1:Z:614:GLN:HB2	1.77	0.50
1:a:286:ARG:HH21	1:a:614:GLN:HB2	1.77	0.50
1:d:614:GLN:H	1:d:614:GLN:CD	2.20	0.50
1:i:337:THR:HA	1:i:404:ARG:HH11	1.76	0.50
1:j:337:THR:HA	1:j:404:ARG:HH11	1.76	0.50
1:o:585:ARG:HG2	1:o:588:ARG:HB3	1.94	0.50
1:p:234:TRP:CZ2	1:p:298[A]:ARG:HB2	2.45	0.50
1:q:620:LYS:HB2	1:q:642:PRO:HG3	1.92	0.50
1:2:286:ARG:HH21	1:2:614:GLN:HB2	1.77	0.50
1:3:286:ARG:HH21	1:3:614:GLN:HB2	1.76	0.50
1:5:614:GLN:CD	1:5:614:GLN:H	2.20	0.50
1:C:456:THR:O	1:Y:497:ASN:ND2	2.36	0.50
1:G:234:TRP:CZ2	1:G:298[A]:ARG:HB2	2.46	0.50
1:G:351:PRO:HB3	1:7:428:GLN:NE2	2.27	0.50
1:P:689:GLU:OE1	1:P:689:GLU:N	2.40	0.50
1:V:337:THR:HA	1:V:404:ARG:HH11	1.76	0.50
1:V:585:ARG:HG2	1:V:588:ARG:HB3	1.94	0.50
1:W:497:ASN:ND2	1:u:456:THR:O	2.37	0.50
1:Y:428:GLN:NE2	1:t:351:PRO:HB3	2.26	0.50
1:b:614:GLN:H	1:b:614:GLN:CD	2.20	0.50
1:f:620:LYS:HB2	1:f:642:PRO:HG3	1.92	0.50
1:g:428:GLN:NE2	1:7:351:PRO:HB3	2.26	0.50
1:m:302:ASN:HD21	1:v:302:ASN:HD21	1.60	0.50
1:p:585:ARG:HG2	1:p:588:ARG:HB3	1.94	0.50
1:q:614:GLN:CD	1:q:614:GLN:H	2.20	0.50
1:s:337:THR:HA	1:s:404:ARG:HH11	1.76	0.50
1:3:337:THR:HA	1:3:404:ARG:HH11	1.76	0.50
1:5:509:HIS:ND1	1:5:514:ASP:OD1	2.40	0.50
1:6:337:THR:HA	1:6:404:ARG:HH11	1.76	0.50
1:B:496:ASN:HD22	1:2:589:GLN:HA	1.77	0.50
1:C:614:GLN:CD	1:C:614:GLN:H	2.20	0.50
1:L:286:ARG:HH21	1:L:614:GLN:HB2	1.76	0.50
1:P:234:TRP:CE2	1:P:298[B]:ARG:HD3	2.47	0.50
1:R:620:LYS:HB2	1:R:642:PRO:HG3	1.92	0.50
1:S:614:GLN:CD	1:S:614:GLN:H	2.20	0.50
1:U:337:THR:HA	1:U:404:ARG:HH11	1.76	0.50
1:W:337:THR:HA	1:W:404:ARG:HH11	1.76	0.50
1:W:428:GLN:NE2	1:l:351:PRO:HB3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:614:GLN:H	1:Z:614:GLN:CD	2.20	0.50
1:a:285:ASN:O	1:a:617:ILE:N	2.40	0.50
1:a:526:HIS:HB2	1:a:530:GLU:O	2.11	0.50
1:b:234:TRP:CE2	1:b:298[B]:ARG:HD3	2.46	0.50
1:f:585:ARG:HG2	1:f:588:ARG:HB3	1.94	0.50
1:f:614:GLN:CD	1:f:614:GLN:H	2.20	0.50
1:g:614:GLN:H	1:g:614:GLN:CD	2.20	0.50
1:l:234:TRP:CG	1:l:298[B]:ARG:NE	2.80	0.50
1:n:286:ARG:HH21	1:n:614:GLN:HB2	1.76	0.50
1:p:526:HIS:HB2	1:p:530:GLU:O	2.11	0.50
1:r:614:GLN:H	1:r:614:GLN:CD	2.20	0.50
1:x:526:HIS:HB2	1:x:530:GLU:O	2.11	0.50
1:x:620:LYS:HB2	1:x:642:PRO:HG3	1.93	0.50
1:3:526:HIS:HB2	1:3:530:GLU:O	2.11	0.50
1:4:285:ASN:O	1:4:617:ILE:N	2.40	0.50
1:6:526:HIS:HB2	1:6:530:GLU:O	2.11	0.50
1:7:337:THR:HA	1:7:404:ARG:HH11	1.76	0.50
1:7:526:HIS:HB2	1:7:530:GLU:O	2.11	0.50
1:B:423:SER:O	1:B:729:ARG:HA	2.12	0.50
1:Q:526:HIS:HB2	1:Q:530:GLU:O	2.11	0.50
1:S:620:LYS:HB2	1:S:642:PRO:HG3	1.92	0.50
1:U:689:GLU:OE1	1:U:689:GLU:N	2.40	0.50
1:V:526:HIS:HB2	1:V:530:GLU:O	2.11	0.50
1:W:286:ARG:HH21	1:W:614:GLN:HB2	1.77	0.50
1:W:526:HIS:HB2	1:W:530:GLU:O	2.11	0.50
1:X:620:LYS:HB2	1:X:642:PRO:HG3	1.93	0.50
1:Y:337:THR:HA	1:Y:404:ARG:HH11	1.76	0.50
1:a:337:THR:HA	1:a:404:ARG:HH11	1.76	0.50
1:b:585:ARG:HG2	1:b:588:ARG:HB3	1.94	0.50
1:c:286:ARG:HH21	1:c:614:GLN:HB2	1.76	0.50
1:c:337:THR:HA	1:c:404:ARG:HH11	1.76	0.50
1:d:286:ARG:HH21	1:d:614:GLN:HB2	1.77	0.50
1:o:620:LYS:HB2	1:o:642:PRO:HG3	1.92	0.50
1:z:286:ARG:HH21	1:z:614:GLN:HB2	1.77	0.50
1:4:526:HIS:HB2	1:4:530:GLU:O	2.11	0.50
1:8:614:GLN:CD	1:8:614:GLN:H	2.20	0.50
1:A:585:ARG:HG2	1:A:588:ARG:HB3	1.94	0.50
1:B:614:GLN:H	1:B:614:GLN:CD	2.20	0.50
1:E:614:GLN:H	1:E:614:GLN:CD	2.20	0.50
1:F:614:GLN:CD	1:F:614:GLN:H	2.20	0.50
1:I:423:SER:O	1:I:729:ARG:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:565:ILE:HG21	1:K:569:ASN:ND2	2.27	0.50
1:L:337:THR:HA	1:L:404:ARG:HH11	1.76	0.50
1:M:423:SER:O	1:M:729:ARG:HA	2.12	0.50
1:N:509:HIS:ND1	1:N:514:ASP:OD1	2.40	0.50
1:N:614:GLN:CD	1:N:614:GLN:H	2.20	0.50
1:O:285:ASN:O	1:O:617:ILE:N	2.40	0.50
1:S:302:ASN:HD21	1:w:302:ASN:HD21	1.59	0.50
1:S:337:THR:HA	1:S:404:ARG:HH11	1.76	0.50
1:T:509:HIS:ND1	1:T:514:ASP:OD1	2.40	0.50
1:Y:526:HIS:HB2	1:Y:530:GLU:O	2.11	0.50
1:Z:351:PRO:HB3	1:k:428:GLN:NE2	2.27	0.50
1:d:423:SER:O	1:d:729:ARG:HA	2.12	0.50
1:h:423:SER:O	1:h:729:ARG:HA	2.12	0.50
1:i:614:GLN:CD	1:i:614:GLN:H	2.20	0.50
1:n:423:SER:O	1:n:729:ARG:HA	2.12	0.50
1:s:689:GLU:OE1	1:s:689:GLU:N	2.40	0.50
1:v:585:ARG:HG2	1:v:588:ARG:HB3	1.94	0.50
1:w:614:GLN:H	1:w:614:GLN:CD	2.20	0.50
1:y:614:GLN:CD	1:y:614:GLN:H	2.20	0.50
1:1:423:SER:O	1:1:729:ARG:HA	2.12	0.50
1:2:614:GLN:H	1:2:614:GLN:CD	2.20	0.50
1:5:526:HIS:HB2	1:5:530:GLU:O	2.11	0.50
1:5:583:LEU:O	1:5:588:ARG:NH1	2.44	0.50
1:6:286:ARG:HH21	1:6:614:GLN:HB2	1.77	0.50
1:7:286:ARG:HH21	1:7:614:GLN:HB2	1.76	0.50
1:A:337:THR:HA	1:A:404:ARG:HH11	1.76	0.49
1:B:565:ILE:HG21	1:B:569:ASN:ND2	2.27	0.49
1:G:701:THR:HG23	1:2:699:GLN:H	1.75	0.49
1:H:526:HIS:HB2	1:H:530:GLU:O	2.11	0.49
1:H:583:LEU:O	1:H:588:ARG:NH1	2.44	0.49
1:H:585:ARG:HG2	1:H:588:ARG:HB3	1.94	0.49
1:L:614:GLN:H	1:L:614:GLN:CD	2.20	0.49
1:M:699:GLN:H	1:R:701:THR:HG23	1.77	0.49
1:N:583:LEU:O	1:N:588:ARG:NH1	2.44	0.49
1:O:526:HIS:HB2	1:O:530:GLU:O	2.11	0.49
1:P:337:THR:HA	1:P:404:ARG:HH11	1.76	0.49
1:V:565:ILE:HG21	1:V:569:ASN:ND2	2.27	0.49
1:W:351:PRO:HB3	1:u:428:GLN:NE2	2.26	0.49
1:a:614:GLN:CD	1:a:614:GLN:H	2.20	0.49
1:e:286:ARG:HH21	1:e:614:GLN:HB2	1.77	0.49
1:e:337:THR:HA	1:e:404:ARG:HH11	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:286:ARG:HH21	1:l:614:GLN:HB2	1.76	0.49
1:l:526:HIS:HB2	1:l:530:GLU:O	2.11	0.49
1:m:509:HIS:ND1	1:m:514:ASP:OD1	2.40	0.49
1:o:337:THR:HA	1:o:404:ARG:HH11	1.76	0.49
1:p:565:ILE:HG21	1:p:569:ASN:ND2	2.27	0.49
1:r:620:LYS:HB2	1:r:642:PRO:HG3	1.92	0.49
1:u:423:SER:O	1:u:729:ARG:HA	2.12	0.49
1:y:585:ARG:HG2	1:y:588:ARG:HB3	1.94	0.49
1:z:337:THR:HA	1:z:404:ARG:HH11	1.76	0.49
1:1:614:GLN:H	1:1:614:GLN:CD	2.20	0.49
1:3:614:GLN:CD	1:3:614:GLN:H	2.20	0.49
1:4:565:ILE:HG21	1:4:569:ASN:ND2	2.28	0.49
1:8:234:TRP:HE1	1:8:298[A]:ARG:NH1	2.08	0.49
1:A:285:ASN:O	1:A:617:ILE:N	2.40	0.49
1:C:423:SER:O	1:C:729:ARG:HA	2.12	0.49
1:G:337:THR:HA	1:G:404:ARG:HH11	1.76	0.49
1:H:234:TRP:CE2	1:H:298[B]:ARG:HD3	2.47	0.49
1:I:337:THR:HA	1:I:404:ARG:HH11	1.76	0.49
1:M:286:ARG:HH21	1:M:614:GLN:HB2	1.77	0.49
1:N:565:ILE:HG21	1:N:569:ASN:ND2	2.27	0.49
1:O:286:ARG:HH21	1:O:614:GLN:HB2	1.76	0.49
1:Q:220:GLY:HA3	1:Q:406:GLY:HA3	1.94	0.49
1:U:614:GLN:H	1:U:614:GLN:CD	2.20	0.49
1:X:337:THR:HA	1:X:404:ARG:HH11	1.76	0.49
1:Z:423:SER:O	1:Z:729:ARG:HA	2.12	0.49
1:a:302:ASN:HD21	1:g:302:ASN:HD21	1.59	0.49
1:b:286:ARG:HH21	1:b:614:GLN:HB2	1.77	0.49
1:d:565:ILE:HG21	1:d:569:ASN:ND2	2.27	0.49
1:f:286:ARG:HH21	1:f:614:GLN:HB2	1.77	0.49
1:i:509:HIS:ND1	1:i:514:ASP:OD1	2.40	0.49
1:l:285:ASN:O	1:l:617:ILE:N	2.40	0.49
1:n:565:ILE:HG21	1:n:569:ASN:ND2	2.27	0.49
1:s:614:GLN:CD	1:s:614:GLN:H	2.20	0.49
1:t:620:LYS:HB2	1:t:642:PRO:HG3	1.92	0.49
1:u:337:THR:HA	1:u:404:ARG:HH11	1.76	0.49
1:v:337:THR:HA	1:v:404:ARG:HH11	1.76	0.49
1:1:565:ILE:HG21	1:1:569:ASN:ND2	2.27	0.49
1:5:585:ARG:HG2	1:5:588:ARG:HB3	1.94	0.49
1:B:585:ARG:HG2	1:B:588:ARG:HB3	1.94	0.49
1:D:423:SER:O	1:D:729:ARG:HA	2.12	0.49
1:E:428:GLN:NE2	1:p:351:PRO:HB3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:423:SER:O	1:G:729:ARG:HA	2.12	0.49
1:J:423:SER:O	1:J:729:ARG:HA	2.12	0.49
1:J:614:GLN:H	1:J:614:GLN:CD	2.20	0.49
1:K:526:HIS:HB2	1:K:530:GLU:O	2.11	0.49
1:P:423:SER:O	1:P:729:ARG:HA	2.12	0.49
1:Y:286:ARG:HH21	1:Y:614:GLN:HB2	1.77	0.49
1:b:423:SER:O	1:b:729:ARG:HA	2.12	0.49
1:c:565:ILE:HG21	1:c:569:ASN:ND2	2.27	0.49
1:e:565:ILE:HG21	1:e:569:ASN:ND2	2.27	0.49
1:f:423:SER:O	1:f:729:ARG:HA	2.12	0.49
1:g:286:ARG:HH21	1:g:614:GLN:HB2	1.76	0.49
1:g:423:SER:O	1:g:729:ARG:HA	2.12	0.49
1:h:286:ARG:HH21	1:h:614:GLN:HB2	1.77	0.49
1:i:583:LEU:O	1:i:588:ARG:NH1	2.44	0.49
1:j:585:ARG:HG2	1:j:588:ARG:HB3	1.94	0.49
1:k:423:SER:O	1:k:729:ARG:HA	2.12	0.49
1:o:286:ARG:HH21	1:o:614:GLN:HB2	1.77	0.49
1:r:337:THR:HA	1:r:404:ARG:HH11	1.76	0.49
1:t:423:SER:O	1:t:729:ARG:HA	2.12	0.49
1:t:614:GLN:CD	1:t:614:GLN:H	2.20	0.49
1:v:285:ASN:O	1:v:617:ILE:N	2.40	0.49
1:x:220:GLY:HA3	1:x:406:GLY:HA3	1.94	0.49
1:x:497:ASN:ND2	1:8:456:THR:O	2.35	0.49
1:z:583:LEU:O	1:z:588:ARG:NH1	2.44	0.49
1:z:614:GLN:H	1:z:614:GLN:CD	2.20	0.49
1:1:585:ARG:HG2	1:1:588:ARG:HB3	1.94	0.49
1:2:423:SER:O	1:2:729:ARG:HA	2.12	0.49
1:4:423:SER:O	1:4:729:ARG:HA	2.12	0.49
1:5:286:ARG:HH21	1:5:614:GLN:HB2	1.77	0.49
1:A:620:LYS:HB2	1:A:642:PRO:HG3	1.93	0.49
1:C:286:ARG:HH21	1:C:614:GLN:HB2	1.77	0.49
1:E:423:SER:O	1:E:729:ARG:HA	2.12	0.49
1:F:585:ARG:HG2	1:F:588:ARG:HB3	1.94	0.49
1:G:614:GLN:H	1:G:614:GLN:CD	2.20	0.49
1:G:620:LYS:HB2	1:G:642:PRO:HG3	1.92	0.49
1:J:234:TRP:CD2	1:J:298[B]:ARG:HD3	2.47	0.49
1:K:423:SER:O	1:K:729:ARG:HA	2.12	0.49
1:M:565:ILE:HG21	1:M:569:ASN:ND2	2.27	0.49
1:O:423:SER:O	1:O:729:ARG:HA	2.12	0.49
1:P:585:ARG:HG2	1:P:588:ARG:HB3	1.94	0.49
1:Q:423:SER:O	1:Q:729:ARG:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:351:PRO:HB3	1:r:428:GLN:NE2	2.28	0.49
1:R:585:ARG:HG2	1:R:588:ARG:HB3	1.94	0.49
1:T:585:ARG:HG2	1:T:588:ARG:HB3	1.94	0.49
1:U:286:ARG:HH21	1:U:614:GLN:HB2	1.77	0.49
1:W:614:GLN:H	1:W:614:GLN:CD	2.20	0.49
1:X:565:ILE:HG21	1:X:569:ASN:ND2	2.27	0.49
1:Y:220:GLY:HA3	1:Y:406:GLY:HA3	1.94	0.49
1:Y:583:LEU:O	1:Y:588:ARG:NH1	2.44	0.49
1:Z:337:THR:HA	1:Z:404:ARG:HH11	1.76	0.49
1:a:220:GLY:HA3	1:a:406:GLY:HA3	1.95	0.49
1:a:423:SER:O	1:a:729:ARG:HA	2.12	0.49
1:f:351:PRO:HB3	1:n:428:GLN:NE2	2.28	0.49
1:h:565:ILE:HG21	1:h:569:ASN:ND2	2.27	0.49
1:i:565:ILE:HG21	1:i:569:ASN:ND2	2.28	0.49
1:m:423:SER:O	1:m:729:ARG:HA	2.12	0.49
1:m:689:GLU:OE1	1:m:689:GLU:N	2.40	0.49
1:o:565:ILE:HG21	1:o:569:ASN:ND2	2.27	0.49
1:q:585:ARG:HG2	1:q:588:ARG:HB3	1.94	0.49
1:s:565:ILE:HG21	1:s:569:ASN:ND2	2.27	0.49
1:v:620:LYS:HB2	1:v:642:PRO:HG3	1.92	0.49
1:3:220:GLY:HA3	1:3:406:GLY:HA3	1.95	0.49
1:7:220:GLY:HA3	1:7:406:GLY:HA3	1.94	0.49
1:8:423:SER:O	1:8:729:ARG:HA	2.12	0.49
1:C:337:THR:HA	1:C:404:ARG:HH11	1.76	0.49
1:C:428:GLN:NE2	1:Y:351:PRO:HB3	2.27	0.49
1:F:234:TRP:CZ2	1:F:298[A]:ARG:HB2	2.48	0.49
1:I:285:ASN:O	1:I:617:ILE:N	2.40	0.49
1:I:689:GLU:OE1	1:I:689:GLU:N	2.40	0.49
1:M:220:GLY:HA3	1:M:406:GLY:HA3	1.95	0.49
1:N:286:ARG:HH21	1:N:614:GLN:HB2	1.77	0.49
1:O:351:PRO:HB3	1:6:428:GLN:NE2	2.27	0.49
1:P:428:GLN:NE2	1:X:351:PRO:HB3	2.28	0.49
1:P:509:HIS:ND1	1:P:514:ASP:OD1	2.40	0.49
1:S:234:TRP:CD2	1:S:298[B]:ARG:HD3	2.47	0.49
1:T:423:SER:O	1:T:729:ARG:HA	2.12	0.49
1:U:565:ILE:HG21	1:U:569:ASN:ND2	2.28	0.49
1:X:286:ARG:HH21	1:X:614:GLN:HB2	1.77	0.49
1:Y:423:SER:O	1:Y:729:ARG:HA	2.12	0.49
1:b:302:ASN:HD21	1:x:302:ASN:HD21	1.59	0.49
1:g:474:SER:HG	1:7:518:ASN:HD22	1.53	0.49
1:h:220:GLY:HA3	1:h:406:GLY:HA3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:286:ARG:HH21	1:i:614:GLN:HB2	1.76	0.49
1:j:423:SER:O	1:j:729:ARG:HA	2.12	0.49
1:l:423:SER:O	1:l:729:ARG:HA	2.12	0.49
1:m:585:ARG:HG2	1:m:588:ARG:HB3	1.94	0.49
1:t:337:THR:HA	1:t:404:ARG:HH11	1.76	0.49
1:w:423:SER:O	1:w:729:ARG:HA	2.12	0.49
1:x:689:GLU:OE1	1:x:689:GLU:N	2.40	0.49
1:3:565:ILE:HG21	1:3:569:ASN:ND2	2.27	0.49
1:7:423:SER:O	1:7:729:ARG:HA	2.12	0.49
1:7:583:LEU:O	1:7:588:ARG:NH1	2.44	0.49
1:E:565:ILE:HG21	1:E:569:ASN:ND2	2.27	0.49
1:F:583:LEU:O	1:F:588:ARG:NH1	2.44	0.49
1:H:286:ARG:HH21	1:H:614:GLN:HB2	1.77	0.49
1:J:583:LEU:O	1:J:588:ARG:NH1	2.44	0.49
1:Q:689:GLU:OE1	1:Q:689:GLU:N	2.40	0.49
1:R:423:SER:O	1:R:729:ARG:HA	2.12	0.49
1:R:497:ASN:ND2	1:r:456:THR:O	2.36	0.49
1:T:689:GLU:OE1	1:T:689:GLU:N	2.40	0.49
1:U:423:SER:O	1:U:729:ARG:HA	2.12	0.49
1:X:285:ASN:O	1:X:617:ILE:N	2.40	0.49
1:Y:614:GLN:CD	1:Y:614:GLN:H	2.20	0.49
1:a:565:ILE:HG21	1:a:569:ASN:ND2	2.27	0.49
1:a:585:ARG:HG2	1:a:588:ARG:HB3	1.94	0.49
1:g:337:THR:HA	1:g:404:ARG:HH11	1.76	0.49
1:i:351:PRO:HB3	1:p:428:GLN:NE2	2.26	0.49
1:i:585:ARG:HG2	1:i:588:ARG:HB3	1.94	0.49
1:j:509:HIS:ND1	1:j:514:ASP:OD1	2.40	0.49
1:l:565:ILE:HG21	1:l:569:ASN:ND2	2.27	0.49
1:m:565:ILE:HG21	1:m:569:ASN:ND2	2.28	0.49
1:q:337:THR:HA	1:q:404:ARG:HH11	1.76	0.49
1:s:286:ARG:HH21	1:s:614:GLN:HB2	1.77	0.49
1:s:423:SER:O	1:s:729:ARG:HA	2.12	0.49
1:u:614:GLN:H	1:u:614:GLN:CD	2.20	0.49
1:u:689:GLU:OE1	1:u:689:GLU:N	2.40	0.49
1:w:565:ILE:HG21	1:w:569:ASN:ND2	2.27	0.49
1:x:423:SER:O	1:x:729:ARG:HA	2.12	0.49
1:y:286:ARG:HH21	1:y:614:GLN:HB2	1.77	0.49
1:y:302:ASN:HD21	1:4:302:ASN:HD21	1.60	0.49
1:2:234:TRP:CH2	1:2:298[A]:ARG:HB2	2.46	0.49
1:3:423:SER:O	1:3:729:ARG:HA	2.12	0.49
1:3:583:LEU:O	1:3:588:ARG:NH1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:614:GLN:CD	1:6:614:GLN:H	2.20	0.49
1:B:220:GLY:HA3	1:B:406:GLY:HA3	1.95	0.49
1:D:413:TYR:OH	1:D:641:HIS:O	2.31	0.49
1:D:585:ARG:HG2	1:D:588:ARG:HB3	1.94	0.49
1:I:614:GLN:H	1:I:614:GLN:CD	2.20	0.49
1:K:286:ARG:HH21	1:K:614:GLN:HB2	1.77	0.49
1:K:585:ARG:HG2	1:K:588:ARG:HB3	1.94	0.49
1:R:337:THR:HA	1:R:404:ARG:HH11	1.76	0.49
1:T:565:ILE:HG21	1:T:569:ASN:ND2	2.28	0.49
1:Z:585:ARG:HG2	1:Z:588:ARG:HB3	1.94	0.49
1:d:302:ASN:HD21	1:p:302:ASN:HD21	1.59	0.49
1:e:614:GLN:H	1:e:614:GLN:CD	2.20	0.49
1:i:497:ASN:ND2	1:p:456:THR:O	2.35	0.49
1:k:413:TYR:OH	1:k:641:HIS:O	2.31	0.49
1:k:585:ARG:HG2	1:k:588:ARG:HB3	1.94	0.49
1:q:234:TRP:HE1	1:q:298[A]:ARG:NH1	2.10	0.49
1:q:423:SER:O	1:q:729:ARG:HA	2.12	0.49
1:y:583:LEU:O	1:y:588:ARG:NH1	2.44	0.49
1:1:234:TRP:CE2	1:1:298[B]:ARG:HD3	2.48	0.49
1:3:585:ARG:HG2	1:3:588:ARG:HB3	1.94	0.49
1:4:286:ARG:HH21	1:4:614:GLN:HB2	1.77	0.49
1:7:614:GLN:H	1:7:614:GLN:CD	2.20	0.49
1:8:337:THR:HA	1:8:404:ARG:HH11	1.76	0.49
1:8:585:ARG:HG2	1:8:588:ARG:HB3	1.94	0.49
1:B:288:HIS:HD2	1:B:614:GLN:HA	1.78	0.49
1:C:220:GLY:HA3	1:C:406:GLY:HA3	1.94	0.49
1:C:351:PRO:HB3	1:t:428:GLN:NE2	2.26	0.49
1:F:286:ARG:HH21	1:F:614:GLN:HB2	1.77	0.49
1:H:428:GLN:NE2	1:M:351:PRO:HB3	2.28	0.49
1:I:387:VAL:HG12	1:I:388:GLY:N	2.28	0.49
1:I:583:LEU:O	1:I:588:ARG:NH1	2.44	0.49
1:J:288:HIS:HD2	1:J:614:GLN:HA	1.78	0.49
1:K:351:PRO:HB3	1:X:428:GLN:NE2	2.28	0.49
1:N:288:HIS:HD2	1:N:614:GLN:HA	1.78	0.49
1:O:565:ILE:HG21	1:O:569:ASN:ND2	2.27	0.49
1:R:220:GLY:HA3	1:R:406:GLY:HA3	1.94	0.49
1:S:288:HIS:HD2	1:S:614:GLN:HA	1.78	0.49
1:S:585:ARG:HG2	1:S:588:ARG:HB3	1.94	0.49
1:U:585:ARG:HG2	1:U:588:ARG:HB3	1.94	0.49
1:X:614:GLN:CD	1:X:614:GLN:H	2.20	0.49
1:Y:565:ILE:HG21	1:Y:569:ASN:ND2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:583:LEU:O	1:a:588:ARG:NH1	2.44	0.49
1:c:351:PRO:HB3	1:3:428:GLN:NE2	2.28	0.49
1:c:614:GLN:CD	1:c:614:GLN:H	2.20	0.49
1:m:288:HIS:HD2	1:m:614:GLN:HA	1.78	0.49
1:o:285:ASN:O	1:o:617:ILE:N	2.40	0.49
1:q:413:TYR:OH	1:q:641:HIS:O	2.31	0.49
1:r:288:HIS:HD2	1:r:614:GLN:HA	1.78	0.49
1:r:565:ILE:HG21	1:r:569:ASN:ND2	2.27	0.49
1:s:585:ARG:HG2	1:s:588:ARG:HB3	1.94	0.49
1:1:220:GLY:HA3	1:1:406:GLY:HA3	1.95	0.49
1:2:288:HIS:HD2	1:2:614:GLN:HA	1.78	0.49
1:4:585:ARG:HG2	1:4:588:ARG:HB3	1.94	0.49
1:7:585:ARG:HG2	1:7:588:ARG:HB3	1.94	0.49
1:8:285:ASN:O	1:8:617:ILE:N	2.40	0.49
1:A:689:GLU:OE1	1:A:689:GLU:N	2.40	0.49
1:B:351:PRO:HB3	1:2:428:GLN:NE2	2.28	0.49
1:D:387:VAL:HG12	1:D:388:GLY:N	2.28	0.49
1:G:585:ARG:HG2	1:G:588:ARG:HB3	1.94	0.49
1:J:585:ARG:HG2	1:J:588:ARG:HB3	1.94	0.49
1:N:585:ARG:HG2	1:N:588:ARG:HB3	1.94	0.49
1:R:413:TYR:OH	1:R:641:HIS:O	2.31	0.49
1:S:565:ILE:HG21	1:S:569:ASN:ND2	2.28	0.49
1:T:288:HIS:HD2	1:T:614:GLN:HA	1.78	0.49
1:Z:285:ASN:O	1:Z:617:ILE:N	2.40	0.49
1:Z:288:HIS:HD2	1:Z:614:GLN:HA	1.78	0.49
1:d:288:HIS:HD2	1:d:614:GLN:HA	1.78	0.49
1:d:585:ARG:HG2	1:d:588:ARG:HB3	1.94	0.49
1:g:220:GLY:HA3	1:g:406:GLY:HA3	1.94	0.49
1:i:288:HIS:HD2	1:i:614:GLN:HA	1.78	0.49
1:n:285:ASN:O	1:n:617:ILE:N	2.40	0.49
1:o:423:SER:O	1:o:729:ARG:HA	2.12	0.49
1:p:288:HIS:HD2	1:p:614:GLN:HA	1.78	0.49
1:q:220:GLY:HA3	1:q:406:GLY:HA3	1.95	0.49
1:u:387:VAL:HG12	1:u:388:GLY:N	2.28	0.49
1:v:565:ILE:HG21	1:v:569:ASN:ND2	2.27	0.49
1:v:689:GLU:OE1	1:v:689:GLU:N	2.40	0.49
1:y:288:HIS:HD2	1:y:614:GLN:HA	1.78	0.49
1:y:423:SER:O	1:y:729:ARG:HA	2.12	0.49
1:y:565:ILE:HG21	1:y:569:ASN:ND2	2.27	0.49
1:1:288:HIS:HD2	1:1:614:GLN:HA	1.78	0.49
1:2:583:LEU:O	1:2:588:ARG:NH1	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:423:SER:O	1:5:729:ARG:HA	2.12	0.49
1:A:428:GLN:NE2	1:n:351:PRO:HB3	2.28	0.49
1:A:614:GLN:H	1:A:614:GLN:CD	2.20	0.49
1:F:387:VAL:HG12	1:F:388:GLY:N	2.28	0.49
1:F:565:ILE:HG21	1:F:569:ASN:ND2	2.27	0.49
1:H:423:SER:O	1:H:729:ARG:HA	2.12	0.49
1:I:497:ASN:ND2	1:O:456:THR:O	2.37	0.49
1:L:428:GLN:NE2	1:r:351:PRO:HB3	2.28	0.49
1:N:351:PRO:HB3	1:V:428:GLN:NE2	2.27	0.49
1:N:423:SER:O	1:N:729:ARG:HA	2.12	0.49
1:O:585:ARG:HG2	1:O:588:ARG:HB3	1.94	0.49
1:P:565:ILE:HG21	1:P:569:ASN:ND2	2.27	0.49
1:Q:428:GLN:NE2	1:k:351:PRO:HB3	2.28	0.49
1:S:387:VAL:HG12	1:S:388:GLY:N	2.28	0.49
1:V:288:HIS:HD2	1:V:614:GLN:HA	1.78	0.49
1:W:565:ILE:HG21	1:W:569:ASN:ND2	2.27	0.49
1:X:423:SER:O	1:X:729:ARG:HA	2.12	0.49
1:Y:585:ARG:HG2	1:Y:588:ARG:HB3	1.94	0.49
1:Z:387:VAL:HG12	1:Z:388:GLY:N	2.28	0.49
1:b:456:THR:O	1:v:497:ASN:ND2	2.36	0.49
1:g:509:HIS:ND1	1:g:514:ASP:OD1	2.40	0.49
1:h:234:TRP:CH2	1:h:298[B]:ARG:HB3	2.48	0.49
1:h:302:ASN:HD21	1:q:302:ASN:HD21	1.60	0.49
1:k:387:VAL:HG12	1:k:388:GLY:N	2.28	0.49
1:l:585:ARG:HG2	1:l:588:ARG:HB3	1.94	0.49
1:n:585:ARG:HG2	1:n:588:ARG:HB3	1.94	0.49
1:r:387:VAL:HG12	1:r:388:GLY:N	2.28	0.49
1:r:509:HIS:ND1	1:r:514:ASP:OD1	2.40	0.49
1:r:585:ARG:HG2	1:r:588:ARG:HB3	1.94	0.49
1:u:285:ASN:O	1:u:617:ILE:N	2.40	0.49
1:u:583:LEU:O	1:u:588:ARG:NH1	2.44	0.49
1:w:387:VAL:HG12	1:w:388:GLY:N	2.28	0.49
1:x:234:TRP:CH2	1:x:298[B]:ARG:HB3	2.48	0.49
1:1:583:LEU:O	1:1:588:ARG:NH1	2.44	0.49
1:7:565:ILE:HG21	1:7:569:ASN:ND2	2.27	0.49
1:8:288:HIS:HD2	1:8:614:GLN:HA	1.78	0.49
1:8:387:VAL:HG12	1:8:388:GLY:N	2.28	0.49
1:A:565:ILE:HG21	1:A:569:ASN:ND2	2.27	0.48
1:C:585:ARG:HG2	1:C:588:ARG:HB3	1.94	0.48
1:E:583:LEU:O	1:E:588:ARG:NH1	2.44	0.48
1:F:351:PRO:HB3	1:c:428:GLN:NE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:423:SER:O	1:F:729:ARG:HA	2.12	0.48
1:I:351:PRO:HB3	1:O:428:GLN:NE2	2.28	0.48
1:J:302:ASN:HD21	1:t:302:ASN:HD21	1.59	0.48
1:K:614:GLN:CD	1:K:614:GLN:H	2.20	0.48
1:L:585:ARG:HG2	1:L:588:ARG:HB3	1.94	0.48
1:M:585:ARG:HG2	1:M:588:ARG:HB3	1.94	0.48
1:N:387:VAL:HG12	1:N:388:GLY:N	2.28	0.48
1:R:387:VAL:HG12	1:R:388:GLY:N	2.28	0.48
1:U:692:LYS:HG3	1:2:398:PHE:CE1	2.45	0.48
1:W:220:GLY:HA3	1:W:406:GLY:HA3	1.94	0.48
1:W:585:ARG:HG2	1:W:588:ARG:HB3	1.94	0.48
1:Y:288:HIS:HD2	1:Y:614:GLN:HA	1.78	0.48
1:Z:220:GLY:HA3	1:Z:406:GLY:HA3	1.95	0.48
1:b:288:HIS:HD2	1:b:614:GLN:HA	1.78	0.48
1:b:387:VAL:HG12	1:b:388:GLY:N	2.28	0.48
1:d:285:ASN:O	1:d:617:ILE:N	2.40	0.48
1:e:220:GLY:HA3	1:e:406:GLY:HA3	1.95	0.48
1:f:288:HIS:HD2	1:f:614:GLN:HA	1.78	0.48
1:i:387:VAL:HG12	1:i:388:GLY:N	2.28	0.48
1:i:423:SER:O	1:i:729:ARG:HA	2.12	0.48
1:j:565:ILE:HG21	1:j:569:ASN:ND2	2.27	0.48
1:n:288:HIS:HD2	1:n:614:GLN:HA	1.78	0.48
1:y:387:VAL:HG12	1:y:388:GLY:N	2.28	0.48
1:z:585:ARG:HG2	1:z:588:ARG:HB3	1.94	0.48
1:4:220:GLY:HA3	1:4:406:GLY:HA3	1.94	0.48
1:4:614:GLN:H	1:4:614:GLN:CD	2.20	0.48
1:6:220:GLY:HA3	1:6:406:GLY:HA3	1.94	0.48
1:6:423:SER:O	1:6:729:ARG:HA	2.12	0.48
1:6:565:ILE:HG21	1:6:569:ASN:ND2	2.28	0.48
1:7:288:HIS:HD2	1:7:614:GLN:HA	1.78	0.48
1:8:220:GLY:HA3	1:8:406:GLY:HA3	1.94	0.48
1:8:565:ILE:HG21	1:8:569:ASN:ND2	2.27	0.48
1:A:234:TRP:CZ2	1:A:298[A]:ARG:HB2	2.48	0.48
1:A:423:SER:O	1:A:729:ARG:HA	2.12	0.48
1:B:285:ASN:O	1:B:617:ILE:N	2.40	0.48
1:E:387:VAL:HG12	1:E:388:GLY:N	2.28	0.48
1:F:288:HIS:HD2	1:F:614:GLN:HA	1.78	0.48
1:G:220:GLY:HA3	1:G:406:GLY:HA3	1.94	0.48
1:G:428:GLN:NE2	1:g:351:PRO:HB3	2.27	0.48
1:H:288:HIS:HD2	1:H:614:GLN:HA	1.78	0.48
1:K:220:GLY:HA3	1:K:406:GLY:HA3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:286:ARG:HH21	1:P:614:GLN:HB2	1.77	0.48
1:S:509:HIS:ND1	1:S:514:ASP:OD1	2.40	0.48
1:T:343:PHE:CE1	1:T:398:PHE:HD2	2.31	0.48
1:T:614:GLN:H	1:T:614:GLN:CD	2.20	0.48
1:V:497:ASN:ND2	1:w:456:THR:O	2.37	0.48
1:W:288:HIS:HD2	1:W:614:GLN:HA	1.78	0.48
1:W:423:SER:O	1:W:729:ARG:HA	2.12	0.48
1:Z:565:ILE:HG21	1:Z:569:ASN:ND2	2.27	0.48
1:c:585:ARG:HG2	1:c:588:ARG:HB3	1.94	0.48
1:d:220:GLY:HA3	1:d:406:GLY:HA3	1.95	0.48
1:f:387:VAL:HG12	1:f:388:GLY:N	2.28	0.48
1:g:585:ARG:HG2	1:g:588:ARG:HB3	1.94	0.48
1:h:585:ARG:HG2	1:h:588:ARG:HB3	1.94	0.48
1:j:234:TRP:CH2	1:j:298[A]:ARG:HB2	2.48	0.48
1:m:343:PHE:CE1	1:m:398:PHE:HD2	2.31	0.48
1:n:220:GLY:HA3	1:n:406:GLY:HA3	1.94	0.48
1:o:288:HIS:HD2	1:o:614:GLN:HA	1.78	0.48
1:o:614:GLN:H	1:o:614:GLN:CD	2.20	0.48
1:p:509:HIS:ND1	1:p:514:ASP:OD1	2.40	0.48
1:q:387:VAL:HG12	1:q:388:GLY:N	2.28	0.48
1:q:565:ILE:HG21	1:q:569:ASN:ND2	2.27	0.48
1:r:343:PHE:CE1	1:r:398:PHE:HD2	2.31	0.48
1:t:220:GLY:HA3	1:t:406:GLY:HA3	1.94	0.48
1:t:585:ARG:HG2	1:t:588:ARG:HB3	1.94	0.48
1:v:220:GLY:HA3	1:v:406:GLY:HA3	1.94	0.48
1:v:387:VAL:HG12	1:v:388:GLY:N	2.28	0.48
1:v:423:SER:O	1:v:729:ARG:HA	2.12	0.48
1:v:614:GLN:CD	1:v:614:GLN:H	2.20	0.48
1:x:585:ARG:HG2	1:x:588:ARG:HB3	1.94	0.48
1:z:423:SER:O	1:z:729:ARG:HA	2.12	0.48
1:2:585:ARG:HG2	1:2:588:ARG:HB3	1.94	0.48
1:5:288:HIS:HD2	1:5:614:GLN:HA	1.78	0.48
1:6:585:ARG:HG2	1:6:588:ARG:HB3	1.94	0.48
1:7:343:PHE:CE1	1:7:398:PHE:HD2	2.31	0.48
1:A:220:GLY:HA3	1:A:406:GLY:HA3	1.94	0.48
1:A:387:VAL:HG12	1:A:388:GLY:N	2.28	0.48
1:C:509:HIS:ND1	1:C:514:ASP:OD1	2.40	0.48
1:G:565:ILE:HG21	1:G:569:ASN:ND2	2.27	0.48
1:I:428:GLN:NE2	1:6:351:PRO:HB3	2.28	0.48
1:I:565:ILE:HG21	1:I:569:ASN:ND2	2.27	0.48
1:L:423:SER:O	1:L:729:ARG:HA	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:351:PRO:HB3	1:Z:428:GLN:NE2	2.28	0.48
1:S:343:PHE:CE1	1:S:398:PHE:HD2	2.31	0.48
1:S:423:SER:O	1:S:729:ARG:HA	2.12	0.48
1:S:583:LEU:O	1:S:588:ARG:NH1	2.44	0.48
1:V:509:HIS:ND1	1:V:514:ASP:OD1	2.41	0.48
1:W:689:GLU:OE1	1:W:689:GLU:N	2.40	0.48
1:Y:343:PHE:CE1	1:Y:398:PHE:HD2	2.32	0.48
1:b:343:PHE:CE1	1:b:398:PHE:HD2	2.31	0.48
1:c:220:GLY:HA3	1:c:406:GLY:HA3	1.95	0.48
1:e:585:ARG:HG2	1:e:588:ARG:HB3	1.94	0.48
1:g:565:ILE:HG21	1:g:569:ASN:ND2	2.27	0.48
1:h:343:PHE:CE1	1:h:398:PHE:HD2	2.31	0.48
1:j:220:GLY:HA3	1:j:406:GLY:HA3	1.95	0.48
1:j:286:ARG:HH21	1:j:614:GLN:HB2	1.77	0.48
1:k:288:HIS:HD2	1:k:614:GLN:HA	1.78	0.48
1:m:614:GLN:H	1:m:614:GLN:CD	2.20	0.48
1:s:387:VAL:HG12	1:s:388:GLY:N	2.28	0.48
1:t:565:ILE:HG21	1:t:569:ASN:ND2	2.27	0.48
1:u:565:ILE:HG21	1:u:569:ASN:ND2	2.27	0.48
1:w:583:LEU:O	1:w:588:ARG:NH1	2.44	0.48
1:y:220:GLY:HA3	1:y:406:GLY:HA3	1.94	0.48
1:z:565:ILE:HG21	1:z:569:ASN:ND2	2.27	0.48
1:2:387:VAL:HG12	1:2:388:GLY:N	2.28	0.48
1:2:565:ILE:HG21	1:2:569:ASN:ND2	2.27	0.48
1:5:234:TRP:CH2	1:5:298[A]:ARG:HB2	2.48	0.48
1:6:288:HIS:HD2	1:6:614:GLN:HA	1.78	0.48
1:6:689:GLU:OE1	1:6:689:GLU:N	2.40	0.48
1:B:583:LEU:O	1:B:588:ARG:NH1	2.44	0.48
1:C:387:VAL:HG12	1:C:388:GLY:N	2.28	0.48
1:D:288:HIS:HD2	1:D:614:GLN:HA	1.78	0.48
1:F:220:GLY:HA3	1:F:406:GLY:HA3	1.95	0.48
1:F:285:ASN:O	1:F:617:ILE:N	2.40	0.48
1:J:387:VAL:HG12	1:J:388:GLY:N	2.28	0.48
1:J:565:ILE:HG21	1:J:569:ASN:ND2	2.28	0.48
1:K:428:GLN:NE2	1:P:351:PRO:HB3	2.28	0.48
1:M:343:PHE:CE1	1:M:398:PHE:HD2	2.31	0.48
1:N:220:GLY:HA3	1:N:406:GLY:HA3	1.94	0.48
1:N:343:PHE:CE1	1:N:398:PHE:HD2	2.31	0.48
1:O:343:PHE:CE1	1:O:398:PHE:HD2	2.31	0.48
1:R:565:ILE:HG21	1:R:569:ASN:ND2	2.27	0.48
1:T:601:LEU:N	1:T:604:MET:HE2	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:220:GLY:HA3	1:U:406:GLY:HA3	1.94	0.48
1:U:387:VAL:HG12	1:U:388:GLY:N	2.28	0.48
1:Z:343:PHE:CE1	1:Z:398:PHE:HD2	2.31	0.48
1:f:343:PHE:CE1	1:f:398:PHE:HD2	2.31	0.48
1:r:423:SER:O	1:r:729:ARG:HA	2.12	0.48
1:s:343:PHE:CE1	1:s:398:PHE:HD2	2.31	0.48
1:v:288:HIS:HD2	1:v:614:GLN:HA	1.78	0.48
1:3:343:PHE:CE1	1:3:398:PHE:HD2	2.31	0.48
1:7:601:LEU:N	1:7:604:MET:HE2	2.23	0.48
1:A:288:HIS:HD2	1:A:614:GLN:HA	1.78	0.48
1:B:343:PHE:CE1	1:B:398:PHE:HD2	2.31	0.48
1:B:387:VAL:HG12	1:B:388:GLY:N	2.28	0.48
1:B:701:THR:HG23	1:X:699:GLN:H	1.79	0.48
1:C:565:ILE:HG21	1:C:569:ASN:ND2	2.27	0.48
1:H:220:GLY:HA3	1:H:406:GLY:HA3	1.95	0.48
1:I:343:PHE:CE1	1:I:398:PHE:HD2	2.31	0.48
1:J:497:ASN:ND2	1:s:456:THR:O	2.37	0.48
1:K:387:VAL:HG12	1:K:388:GLY:N	2.28	0.48
1:L:565:ILE:HG21	1:L:569:ASN:ND2	2.27	0.48
1:M:288:HIS:HD2	1:M:614:GLN:HA	1.78	0.48
1:P:220:GLY:HA3	1:P:406:GLY:HA3	1.95	0.48
1:Q:585:ARG:HG2	1:Q:588:ARG:HB3	1.94	0.48
1:T:387:VAL:HG12	1:T:388:GLY:N	2.28	0.48
1:U:343:PHE:CE1	1:U:398:PHE:HD2	2.31	0.48
1:V:220:GLY:HA3	1:V:406:GLY:HA3	1.95	0.48
1:W:285:ASN:O	1:W:617:ILE:N	2.40	0.48
1:X:288:HIS:HD2	1:X:614:GLN:HA	1.78	0.48
1:a:343:PHE:CE1	1:a:398:PHE:HD2	2.32	0.48
1:g:288:HIS:HD2	1:g:614:GLN:HA	1.78	0.48
1:g:387:VAL:HG12	1:g:388:GLY:N	2.28	0.48
1:i:220:GLY:HA3	1:i:406:GLY:HA3	1.95	0.48
1:i:343:PHE:CE1	1:i:398:PHE:HD2	2.31	0.48
1:j:583:LEU:O	1:j:588:ARG:NH1	2.44	0.48
1:m:387:VAL:HG12	1:m:388:GLY:N	2.28	0.48
1:m:601:LEU:N	1:m:604:MET:HE2	2.23	0.48
1:n:509:HIS:ND1	1:n:514:ASP:OD1	2.40	0.48
1:o:689:GLU:OE1	1:o:689:GLU:N	2.40	0.48
1:p:220:GLY:HA3	1:p:406:GLY:HA3	1.94	0.48
1:r:413:TYR:OH	1:r:641:HIS:O	2.31	0.48
1:r:583:LEU:O	1:r:588:ARG:NH1	2.44	0.48
1:t:343:PHE:CE1	1:t:398:PHE:HD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:220:GLY:HA3	1:u:406:GLY:HA3	1.94	0.48
1:y:343:PHE:CE1	1:y:398:PHE:HD2	2.31	0.48
1:1:285:ASN:O	1:1:617:ILE:N	2.40	0.48
1:1:343:PHE:CE1	1:1:398:PHE:HD2	2.31	0.48
1:3:229[A]:HIS:HE1	1:3:314:LYS:HZ2	1.62	0.48
1:8:343:PHE:CE1	1:8:398:PHE:HD2	2.31	0.48
1:E:285:ASN:O	1:E:617:ILE:N	2.40	0.48
1:F:497:ASN:ND2	1:c:456:THR:O	2.36	0.48
1:G:343:PHE:CE1	1:G:398:PHE:HD2	2.31	0.48
1:H:285:ASN:O	1:H:617:ILE:N	2.40	0.48
1:H:343:PHE:CE1	1:H:398:PHE:HD2	2.32	0.48
1:I:220:GLY:HA3	1:I:406:GLY:HA3	1.95	0.48
1:L:351:PRO:HB3	1:R:428:GLN:NE2	2.28	0.48
1:M:387:VAL:HG12	1:M:388:GLY:N	2.28	0.48
1:O:288:HIS:HD2	1:O:614:GLN:HA	1.78	0.48
1:O:387:VAL:HG12	1:O:388:GLY:N	2.28	0.48
1:Q:565:ILE:HG21	1:Q:569:ASN:ND2	2.27	0.48
1:S:413:TYR:OH	1:S:641:HIS:O	2.31	0.48
1:U:450:THR:HG1	1:U:461:GLN:HE22	1.60	0.48
1:X:689:GLU:OE1	1:X:689:GLU:N	2.40	0.48
1:e:689:GLU:OE1	1:e:689:GLU:N	2.40	0.48
1:l:288:HIS:HD2	1:l:614:GLN:HA	1.78	0.48
1:p:234:TRP:CZ3	1:p:298[B]:ARG:HG2	2.49	0.48
1:s:220:GLY:HA3	1:s:406:GLY:HA3	1.95	0.48
1:y:285:ASN:O	1:y:617:ILE:N	2.40	0.48
1:4:387:VAL:HG12	1:4:388:GLY:N	2.28	0.48
1:5:343:PHE:CE1	1:5:398:PHE:HD2	2.31	0.48
1:5:565:ILE:HG21	1:5:569:ASN:ND2	2.27	0.48
1:6:285:ASN:O	1:6:617:ILE:N	2.40	0.48
1:6:583:LEU:O	1:6:588:ARG:NH1	2.44	0.48
1:C:288:HIS:HD2	1:C:614:GLN:HA	1.78	0.48
1:D:565:ILE:HG21	1:D:569:ASN:ND2	2.27	0.48
1:E:585:ARG:HG2	1:E:588:ARG:HB3	1.94	0.48
1:F:343:PHE:CE1	1:F:398:PHE:HD2	2.31	0.48
1:F:428:GLN:NE2	1:3:351:PRO:HB3	2.28	0.48
1:G:288:HIS:HD2	1:G:614:GLN:HA	1.78	0.48
1:G:456:THR:O	1:g:497:ASN:ND2	2.35	0.48
1:L:220:GLY:HA3	1:L:406:GLY:HA3	1.94	0.48
1:L:288:HIS:HD2	1:L:614:GLN:HA	1.78	0.48
1:P:583:LEU:O	1:P:588:ARG:NH1	2.44	0.48
1:Q:234:TRP:CG	1:Q:298[B]:ARG:HE	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:387:VAL:HG12	1:Q:388:GLY:N	2.28	0.48
1:V:343:PHE:CE1	1:V:398:PHE:HD2	2.31	0.48
1:Y:601:LEU:N	1:Y:604:MET:HE2	2.23	0.48
1:b:565:ILE:HG21	1:b:569:ASN:ND2	2.27	0.48
1:f:497:ASN:ND2	1:n:456:THR:O	2.35	0.48
1:h:288:HIS:HD2	1:h:614:GLN:HA	1.78	0.48
1:j:387:VAL:HG12	1:j:388:GLY:N	2.28	0.48
1:k:565:ILE:HG21	1:k:569:ASN:ND2	2.27	0.48
1:l:343:PHE:CE1	1:l:398:PHE:HD2	2.31	0.48
1:l:601:LEU:N	1:l:604:MET:HE2	2.23	0.48
1:o:343:PHE:CE1	1:o:398:PHE:HD2	2.31	0.48
1:p:689:GLU:OE1	1:p:689:GLU:N	2.40	0.48
1:r:220:GLY:HA3	1:r:406:GLY:HA3	1.94	0.48
1:u:234:TRP:CH2	1:u:298[B]:ARG:HB3	2.48	0.48
1:u:343:PHE:CE1	1:u:398:PHE:HD2	2.32	0.48
1:v:234:TRP:NE1	1:v:298[A]:ARG:HH11	2.12	0.48
1:x:565:ILE:HG21	1:x:569:ASN:ND2	2.27	0.48
1:z:220:GLY:HA3	1:z:406:GLY:HA3	1.94	0.48
1:z:288:HIS:HD2	1:z:614:GLN:HA	1.78	0.48
1:1:387:VAL:HG12	1:1:388:GLY:N	2.28	0.48
1:3:234:TRP:CD2	1:3:298[B]:ARG:NE	2.79	0.48
1:5:220:GLY:HA3	1:5:406:GLY:HA3	1.95	0.48
1:5:387:VAL:HG12	1:5:388:GLY:N	2.28	0.48
1:6:710:VAL:O	1:6:713:THR:HG22	2.14	0.48
1:C:343:PHE:CE1	1:C:398:PHE:HD2	2.31	0.48
1:E:288:HIS:HD2	1:E:614:GLN:HA	1.78	0.48
1:I:234:TRP:CG	1:I:298[B]:ARG:HE	2.31	0.48
1:L:689:GLU:OE1	1:L:689:GLU:N	2.40	0.48
1:N:710:VAL:O	1:N:713:THR:HG22	2.14	0.48
1:Q:509:HIS:ND1	1:Q:514:ASP:OD1	2.40	0.48
1:S:220:GLY:HA3	1:S:406:GLY:HA3	1.95	0.48
1:T:220:GLY:HA3	1:T:406:GLY:HA3	1.95	0.48
1:V:689:GLU:OE1	1:V:689:GLU:N	2.40	0.48
1:W:583:LEU:O	1:W:588:ARG:NH1	2.44	0.48
1:W:710:VAL:O	1:W:713:THR:HG22	2.14	0.48
1:c:689:GLU:OE1	1:c:689:GLU:N	2.40	0.48
1:d:509:HIS:ND1	1:d:514:ASP:OD1	2.40	0.48
1:e:413:TYR:OH	1:e:641:HIS:O	2.31	0.48
1:e:423:SER:O	1:e:729:ARG:HA	2.12	0.48
1:h:387:VAL:HG12	1:h:388:GLY:N	2.28	0.48
1:l:387:VAL:HG12	1:l:388:GLY:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:583:LEU:O	1:n:588:ARG:NH1	2.44	0.48
1:o:220:GLY:HA3	1:o:406:GLY:HA3	1.94	0.48
1:o:302:ASN:HD21	1:1:302:ASN:HD21	1.60	0.48
1:t:288:HIS:HD2	1:t:614:GLN:HA	1.78	0.48
1:x:387:VAL:HG12	1:x:388:GLY:N	2.28	0.48
1:7:413:TYR:OH	1:7:641:HIS:O	2.31	0.48
1:A:343:PHE:CE1	1:A:398:PHE:HD2	2.31	0.48
1:D:220:GLY:HA3	1:D:406:GLY:HA3	1.94	0.48
1:E:343:PHE:CE1	1:E:398:PHE:HD2	2.31	0.48
1:E:497:ASN:ND2	1:i:456:THR:O	2.37	0.48
1:H:387:VAL:HG12	1:H:388:GLY:N	2.28	0.48
1:H:565:ILE:HG21	1:H:569:ASN:ND2	2.27	0.48
1:J:220:GLY:HA3	1:J:406:GLY:HA3	1.95	0.48
1:K:589:GLN:HA	1:P:496:ASN:HD22	1.79	0.48
1:P:285:ASN:O	1:P:617:ILE:N	2.40	0.48
1:P:387:VAL:HG12	1:P:388:GLY:N	2.28	0.48
1:R:285:ASN:O	1:R:617:ILE:N	2.40	0.48
1:W:387:VAL:HG12	1:W:388:GLY:N	2.28	0.48
1:X:343:PHE:CE1	1:X:398:PHE:HD2	2.31	0.48
1:Y:689:GLU:OE1	1:Y:689:GLU:N	2.40	0.48
1:c:387:VAL:HG12	1:c:388:GLY:N	2.28	0.48
1:d:710:VAL:O	1:d:713:THR:HG22	2.14	0.48
1:f:565:ILE:HG21	1:f:569:ASN:ND2	2.27	0.48
1:g:343:PHE:CE1	1:g:398:PHE:HD2	2.32	0.48
1:j:302:ASN:HD21	1:5:302:ASN:HD21	1.60	0.48
1:j:710:VAL:O	1:j:713:THR:HG22	2.14	0.48
1:k:220:GLY:HA3	1:k:406:GLY:HA3	1.94	0.48
1:l:220:GLY:HA3	1:l:406:GLY:HA3	1.94	0.48
1:m:220:GLY:HA3	1:m:406:GLY:HA3	1.94	0.48
1:q:234:TRP:CE2	1:q:298[B]:ARG:HD3	2.48	0.48
1:q:583:LEU:O	1:q:588:ARG:NH1	2.44	0.48
1:u:710:VAL:O	1:u:713:THR:HG22	2.14	0.48
1:w:288:HIS:HD2	1:w:614:GLN:HA	1.78	0.48
1:w:585:ARG:HG2	1:w:588:ARG:HB3	1.94	0.48
1:z:343:PHE:CE1	1:z:398:PHE:HD2	2.32	0.48
1:3:387:VAL:HG12	1:3:388:GLY:N	2.28	0.48
1:8:527:LYS:HG2	1:8:528:ASP:N	2.29	0.48
1:E:220:GLY:HA3	1:E:406:GLY:HA3	1.94	0.48
1:G:527:LYS:HG2	1:G:528:ASP:N	2.29	0.48
1:G:710:VAL:O	1:G:713:THR:HG22	2.14	0.48
1:I:710:VAL:O	1:I:713:THR:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:343:PHE:CE1	1:K:398:PHE:HD2	2.31	0.48
1:L:343:PHE:CE1	1:L:398:PHE:HD2	2.32	0.48
1:M:428:GLN:NE2	1:T:351:PRO:HB3	2.28	0.48
1:M:710:VAL:O	1:M:713:THR:HG22	2.14	0.48
1:O:220:GLY:HA3	1:O:406:GLY:HA3	1.95	0.48
1:P:343:PHE:CE1	1:P:398:PHE:HD2	2.31	0.48
1:R:583:LEU:O	1:R:588:ARG:NH1	2.44	0.48
1:X:220:GLY:HA3	1:X:406:GLY:HA3	1.95	0.48
1:X:295:ASP:HA	1:X:298[A]:ARG:NH1	2.29	0.48
1:a:527:LYS:HG2	1:a:528:ASP:N	2.29	0.48
1:c:413:TYR:OH	1:c:641:HIS:O	2.31	0.48
1:c:423:SER:O	1:c:729:ARG:HA	2.12	0.48
1:d:343:PHE:CE1	1:d:398:PHE:HD2	2.31	0.48
1:d:583:LEU:O	1:d:588:ARG:NH1	2.44	0.48
1:g:234:TRP:CZ3	1:g:298[B]:ARG:HG2	2.49	0.48
1:h:710:VAL:O	1:h:713:THR:HG22	2.14	0.48
1:i:710:VAL:O	1:i:713:THR:HG22	2.14	0.48
1:n:710:VAL:O	1:n:713:THR:HG22	2.14	0.48
1:p:343:PHE:CE1	1:p:398:PHE:HD2	2.32	0.48
1:t:710:VAL:O	1:t:713:THR:HG22	2.14	0.48
1:v:343:PHE:CE1	1:v:398:PHE:HD2	2.31	0.48
1:w:285:ASN:O	1:w:617:ILE:N	2.40	0.48
1:w:343:PHE:CE1	1:w:398:PHE:HD2	2.31	0.48
1:x:509:HIS:ND1	1:x:514:ASP:OD1	2.40	0.48
1:z:689:GLU:OE1	1:z:689:GLU:N	2.40	0.48
1:2:220:GLY:HA3	1:2:406:GLY:HA3	1.95	0.48
1:3:288:HIS:HD2	1:3:614:GLN:HA	1.78	0.48
1:5:285:ASN:O	1:5:617:ILE:N	2.40	0.48
1:A:351:PRO:HB3	1:f:428:GLN:NE2	2.28	0.47
1:E:527:LYS:HG2	1:E:528:ASP:N	2.29	0.47
1:H:496:ASN:HD22	1:T:589:GLN:HA	1.79	0.47
1:P:710:VAL:O	1:P:713:THR:HG22	2.14	0.47
1:R:343:PHE:CE1	1:R:398:PHE:HD2	2.32	0.47
1:U:288:HIS:HD2	1:U:614:GLN:HA	1.78	0.47
1:V:387:VAL:HG12	1:V:388:GLY:N	2.28	0.47
1:X:509:HIS:ND1	1:X:514:ASP:OD1	2.40	0.47
1:Z:527:LYS:HG2	1:Z:528:ASP:N	2.29	0.47
1:b:509:HIS:ND1	1:b:514:ASP:OD1	2.40	0.47
1:d:387:VAL:HG12	1:d:388:GLY:N	2.28	0.47
1:e:387:VAL:HG12	1:e:388:GLY:N	2.28	0.47
1:j:343:PHE:CE1	1:j:398:PHE:HD2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:387:VAL:HG12	1:j:388:GLY:H	1.79	0.47
1:n:343:PHE:CE1	1:n:398:PHE:HD2	2.31	0.47
1:o:509:HIS:ND1	1:o:514:ASP:OD1	2.40	0.47
1:p:387:VAL:HG12	1:p:388:GLY:N	2.28	0.47
1:q:285:ASN:O	1:q:617:ILE:N	2.40	0.47
1:q:343:PHE:CE1	1:q:398:PHE:HD2	2.31	0.47
1:s:497:ASN:ND2	1:1:456:THR:O	2.37	0.47
1:t:527:LYS:HG2	1:t:528:ASP:N	2.29	0.47
1:v:413:TYR:OH	1:v:641:HIS:O	2.31	0.47
1:w:527:LYS:HG2	1:w:528:ASP:N	2.29	0.47
1:2:285:ASN:O	1:2:617:ILE:N	2.40	0.47
1:3:527:LYS:HG2	1:3:528:ASP:N	2.29	0.47
1:3:689:GLU:OE1	1:3:689:GLU:N	2.40	0.47
1:A:496:ASN:HD22	1:f:589:GLN:HA	1.79	0.47
1:B:527:LYS:HG2	1:B:528:ASP:N	2.29	0.47
1:C:710:VAL:O	1:C:713:THR:HG22	2.14	0.47
1:H:351:PRO:HB3	1:T:428:GLN:NE2	2.28	0.47
1:I:496:ASN:HD22	1:O:589:GLN:HA	1.80	0.47
1:L:285:ASN:O	1:L:617:ILE:N	2.40	0.47
1:L:387:VAL:HG12	1:L:388:GLY:N	2.28	0.47
1:M:583:LEU:O	1:M:588:ARG:NH1	2.44	0.47
1:X:710:VAL:O	1:X:713:THR:HG22	2.14	0.47
1:Y:387:VAL:HG12	1:Y:388:GLY:N	2.28	0.47
1:a:288:HIS:HD2	1:a:614:GLN:HA	1.78	0.47
1:a:387:VAL:HG12	1:a:388:GLY:N	2.28	0.47
1:c:583:LEU:O	1:c:588:ARG:NH1	2.44	0.47
1:e:343:PHE:CE1	1:e:398:PHE:HD2	2.31	0.47
1:f:285:ASN:O	1:f:617:ILE:N	2.40	0.47
1:g:234:TRP:CD2	1:g:298[B]:ARG:HD3	2.49	0.47
1:j:285:ASN:O	1:j:617:ILE:N	2.40	0.47
1:o:234:TRP:CH2	1:o:298[B]:ARG:HB3	2.48	0.47
1:q:689:GLU:OE1	1:q:689:GLU:N	2.40	0.47
1:s:288:HIS:HD2	1:s:614:GLN:HA	1.78	0.47
1:t:387:VAL:HG12	1:t:388:GLY:N	2.28	0.47
1:u:288:HIS:HD2	1:u:614:GLN:HA	1.78	0.47
1:u:585:ARG:HG2	1:u:588:ARG:HB3	1.94	0.47
1:w:220:GLY:HA3	1:w:406:GLY:HA3	1.94	0.47
1:y:450:THR:HG1	1:y:461:GLN:HE22	1.56	0.47
1:4:343:PHE:CE1	1:4:398:PHE:HD2	2.31	0.47
1:5:234:TRP:NE1	1:5:298[A]:ARG:NH1	2.62	0.47
1:5:710:VAL:O	1:5:713:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:387:VAL:HG12	1:6:388:GLY:N	2.28	0.47
1:A:413:TYR:OH	1:A:641:HIS:O	2.31	0.47
1:H:470:ILE:O	1:H:475:ARG:NH2	2.47	0.47
1:H:710:VAL:O	1:H:713:THR:HG22	2.14	0.47
1:J:343:PHE:CE1	1:J:398:PHE:HD2	2.31	0.47
1:J:387:VAL:HG12	1:J:388:GLY:H	1.80	0.47
1:J:710:VAL:O	1:J:713:THR:HG22	2.14	0.47
1:K:288:HIS:HD2	1:K:614:GLN:HA	1.78	0.47
1:P:387:VAL:HG12	1:P:388:GLY:H	1.80	0.47
1:P:527:LYS:HG2	1:P:528:ASP:N	2.29	0.47
1:U:428:GLN:NE2	1:2:351:PRO:HB3	2.29	0.47
1:W:343:PHE:CE1	1:W:398:PHE:HD2	2.32	0.47
1:b:220:GLY:HA3	1:b:406:GLY:HA3	1.95	0.47
1:c:343:PHE:CE1	1:c:398:PHE:HD2	2.32	0.47
1:g:710:VAL:O	1:g:713:THR:HG22	2.14	0.47
1:j:527:LYS:HG2	1:j:528:ASP:N	2.29	0.47
1:l:450:THR:HG1	1:l:461:GLN:HE22	1.60	0.47
1:n:387:VAL:HG12	1:n:388:GLY:N	2.28	0.47
1:o:583:LEU:O	1:o:588:ARG:NH1	2.44	0.47
1:o:710:VAL:O	1:o:713:THR:HG22	2.14	0.47
1:v:527:LYS:HG2	1:v:528:ASP:N	2.29	0.47
1:v:710:VAL:O	1:v:713:THR:HG22	2.14	0.47
1:y:413:TYR:OH	1:y:641:HIS:O	2.31	0.47
1:z:387:VAL:HG12	1:z:388:GLY:N	2.28	0.47
1:1:527:LYS:HG2	1:1:528:ASP:N	2.29	0.47
1:2:343:PHE:CE1	1:2:398:PHE:HD2	2.32	0.47
1:2:710:VAL:O	1:2:713:THR:HG22	2.14	0.47
1:4:288:HIS:HD2	1:4:614:GLN:HA	1.78	0.47
1:7:689:GLU:OE1	1:7:689:GLU:N	2.40	0.47
1:A:710:VAL:O	1:A:713:THR:HG22	2.14	0.47
1:B:428:GLN:NE2	1:U:351:PRO:HB3	2.27	0.47
1:H:589:GLN:HA	1:M:496:ASN:HD22	1.79	0.47
1:I:427:SER:HB3	1:I:732:THR:CG2	2.45	0.47
1:I:585:ARG:HG2	1:I:588:ARG:HB3	1.94	0.47
1:J:285:ASN:O	1:J:617:ILE:N	2.40	0.47
1:J:427:SER:HB3	1:J:732:THR:CG2	2.45	0.47
1:J:527:LYS:HG2	1:J:528:ASP:N	2.29	0.47
1:M:427:SER:HB3	1:M:732:THR:CG2	2.45	0.47
1:Q:343:PHE:CE1	1:Q:398:PHE:HD2	2.31	0.47
1:Q:387:VAL:HG12	1:Q:388:GLY:H	1.79	0.47
1:R:710:VAL:O	1:R:713:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:583:LEU:O	1:X:588:ARG:NH1	2.44	0.47
1:a:689:GLU:OE1	1:a:689:GLU:N	2.40	0.47
1:c:288:HIS:HD2	1:c:614:GLN:HA	1.78	0.47
1:d:413:TYR:OH	1:d:641:HIS:O	2.31	0.47
1:f:509:HIS:ND1	1:f:514:ASP:OD1	2.40	0.47
1:h:427:SER:HB3	1:h:732:THR:CG2	2.45	0.47
1:h:583:LEU:O	1:h:588:ARG:NH1	2.44	0.47
1:o:387:VAL:HG12	1:o:388:GLY:N	2.28	0.47
1:p:423:SER:O	1:p:729:ARG:HA	2.12	0.47
1:q:710:VAL:O	1:q:713:THR:HG22	2.14	0.47
1:t:387:VAL:HG12	1:t:388:GLY:H	1.80	0.47
1:x:343:PHE:CE1	1:x:398:PHE:HD2	2.32	0.47
1:y:234:TRP:NE1	1:y:298[A]:ARG:HH11	2.12	0.47
1:y:470:ILE:O	1:y:475:ARG:NH2	2.47	0.47
1:2:387:VAL:HG12	1:2:388:GLY:H	1.80	0.47
1:3:387:VAL:HG12	1:3:388:GLY:H	1.79	0.47
1:6:343:PHE:CE1	1:6:398:PHE:HD2	2.31	0.47
1:7:387:VAL:HG12	1:7:388:GLY:N	2.28	0.47
1:A:456:THR:O	1:n:497:ASN:ND2	2.35	0.47
1:A:497:ASN:ND2	1:f:456:THR:O	2.36	0.47
1:A:527:LYS:HG2	1:A:528:ASP:N	2.29	0.47
1:F:413:TYR:OH	1:F:641:HIS:O	2.31	0.47
1:F:470:ILE:O	1:F:475:ARG:NH2	2.47	0.47
1:G:387:VAL:HG12	1:G:388:GLY:N	2.28	0.47
1:I:288:HIS:HD2	1:I:614:GLN:HA	1.78	0.47
1:K:387:VAL:HG12	1:K:388:GLY:H	1.79	0.47
1:O:710:VAL:O	1:O:713:THR:HG22	2.14	0.47
1:P:288:HIS:HD2	1:P:614:GLN:HA	1.78	0.47
1:R:689:GLU:OE1	1:R:689:GLU:N	2.40	0.47
1:V:423:SER:O	1:V:729:ARG:HA	2.12	0.47
1:X:387:VAL:HG12	1:X:388:GLY:N	2.28	0.47
1:Z:427:SER:HB3	1:Z:732:THR:CG2	2.45	0.47
1:Z:497:ASN:ND2	1:k:456:THR:O	2.35	0.47
1:b:427:SER:HB3	1:b:732:THR:CG2	2.45	0.47
1:b:583:LEU:O	1:b:588:ARG:NH1	2.44	0.47
1:e:710:VAL:O	1:e:713:THR:HG22	2.14	0.47
1:f:427:SER:HB3	1:f:732:THR:CG2	2.45	0.47
1:j:288:HIS:HD2	1:j:614:GLN:HA	1.78	0.47
1:k:234:TRP:CZ3	1:k:298[B]:ARG:HG2	2.49	0.47
1:k:343:PHE:CE1	1:k:398:PHE:HD2	2.31	0.47
1:l:710:VAL:O	1:l:713:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:413:TYR:OH	1:n:641:HIS:O	2.31	0.47
1:u:427:SER:HB3	1:u:732:THR:CG2	2.45	0.47
1:x:387:VAL:HG12	1:x:388:GLY:H	1.79	0.47
1:x:413:TYR:OH	1:x:641:HIS:O	2.31	0.47
1:2:427:SER:HB3	1:2:732:THR:CG2	2.45	0.47
1:4:387:VAL:HG12	1:4:388:GLY:H	1.80	0.47
1:8:427:SER:HB3	1:8:732:THR:CG2	2.45	0.47
1:D:456:THR:O	1:8:497:ASN:ND2	2.36	0.47
1:F:450:THR:HG1	1:F:461:GLN:HE22	1.56	0.47
1:G:387:VAL:HG12	1:G:388:GLY:H	1.80	0.47
1:H:427:SER:HB3	1:H:732:THR:CG2	2.45	0.47
1:M:527:LYS:HG2	1:M:528:ASP:N	2.29	0.47
1:X:234:TRP:CD2	1:X:298[B]:ARG:HD3	2.49	0.47
1:Y:710:VAL:O	1:Y:713:THR:HG22	2.14	0.47
1:a:387:VAL:HG12	1:a:388:GLY:H	1.79	0.47
1:b:285:ASN:O	1:b:617:ILE:N	2.40	0.47
1:c:234:TRP:CE3	1:c:298[B]:ARG:HD3	2.49	0.47
1:c:710:VAL:O	1:c:713:THR:HG22	2.14	0.47
1:e:288:HIS:HD2	1:e:614:GLN:HA	1.78	0.47
1:f:220:GLY:HA3	1:f:406:GLY:HA3	1.95	0.47
1:j:234:TRP:NE1	1:j:298[A]:ARG:NH1	2.62	0.47
1:r:601:LEU:N	1:r:604:MET:HE2	2.23	0.47
1:z:285:ASN:O	1:z:617:ILE:N	2.40	0.47
1:z:387:VAL:HG12	1:z:388:GLY:H	1.79	0.47
1:2:527:LYS:HG2	1:2:528:ASP:N	2.29	0.47
1:3:710:VAL:O	1:3:713:THR:HG22	2.14	0.47
1:8:234:TRP:CG	1:8:298[B]:ARG:NE	2.80	0.47
1:A:427:SER:HB3	1:A:732:THR:CG2	2.45	0.47
1:A:600:VAL:HA	1:A:604:MET:CE	2.45	0.47
1:B:387:VAL:HG12	1:B:388:GLY:H	1.80	0.47
1:B:497:ASN:ND2	1:2:456:THR:O	2.40	0.47
1:D:285:ASN:O	1:D:617:ILE:N	2.40	0.47
1:D:343:PHE:CE1	1:D:398:PHE:HD2	2.32	0.47
1:E:427:SER:HB3	1:E:732:THR:CG2	2.45	0.47
1:E:509:HIS:ND1	1:E:514:ASP:OD1	2.40	0.47
1:F:509:HIS:ND1	1:F:514:ASP:OD1	2.40	0.47
1:F:600:VAL:HA	1:F:604:MET:CE	2.45	0.47
1:H:527:LYS:HG2	1:H:528:ASP:N	2.29	0.47
1:H:600:VAL:HA	1:H:604:MET:CE	2.45	0.47
1:K:710:VAL:O	1:K:713:THR:HG22	2.14	0.47
1:L:387:VAL:HG12	1:L:388:GLY:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:427:SER:HB3	1:L:732:THR:CG2	2.45	0.47
1:L:583:LEU:O	1:L:588:ARG:NH1	2.44	0.47
1:M:295:ASP:HA	1:M:298[A]:ARG:NH1	2.29	0.47
1:N:285:ASN:O	1:N:617:ILE:N	2.40	0.47
1:Q:288:HIS:HD2	1:Q:614:GLN:HA	1.78	0.47
1:Q:413:TYR:OH	1:Q:641:HIS:O	2.31	0.47
1:Q:456:THR:O	1:k:497:ASN:ND2	2.34	0.47
1:Q:496:ASN:HD22	1:Z:589:GLN:HA	1.79	0.47
1:Q:527:LYS:HG2	1:Q:528:ASP:N	2.29	0.47
1:R:427:SER:HB3	1:R:732:THR:CG2	2.45	0.47
1:R:496:ASN:HD22	1:r:589:GLN:HA	1.80	0.47
1:S:710:VAL:O	1:S:713:THR:HG22	2.14	0.47
1:U:387:VAL:HG12	1:U:388:GLY:H	1.80	0.47
1:V:387:VAL:HG12	1:V:388:GLY:H	1.79	0.47
1:Y:509:HIS:ND1	1:Y:514:ASP:OD1	2.40	0.47
1:Z:710:VAL:O	1:Z:713:THR:HG22	2.14	0.47
1:a:427:SER:HB3	1:a:732:THR:CG2	2.45	0.47
1:a:710:VAL:O	1:a:713:THR:HG22	2.14	0.47
1:b:234:TRP:CB	1:b:298[B]:ARG:HE	2.27	0.47
1:b:600:VAL:HA	1:b:604:MET:CE	2.45	0.47
1:d:387:VAL:HG12	1:d:388:GLY:H	1.80	0.47
1:f:583:LEU:O	1:f:588:ARG:NH1	2.44	0.47
1:f:600:VAL:HA	1:f:604:MET:CE	2.45	0.47
1:g:527:LYS:HG2	1:g:528:ASP:N	2.29	0.47
1:h:527:LYS:HG2	1:h:528:ASP:N	2.29	0.47
1:j:413:TYR:OH	1:j:641:HIS:O	2.31	0.47
1:k:710:VAL:O	1:k:713:THR:HG22	2.14	0.47
1:l:234:TRP:CD2	1:l:298[B]:ARG:NE	2.83	0.47
1:m:413:TYR:OH	1:m:641:HIS:O	2.31	0.47
1:m:710:VAL:O	1:m:713:THR:HG22	2.14	0.47
1:n:387:VAL:HG12	1:n:388:GLY:H	1.80	0.47
1:p:234:TRP:CD2	1:p:298[B]:ARG:HD3	2.50	0.47
1:p:427:SER:HB3	1:p:732:THR:CG2	2.45	0.47
1:q:427:SER:HB3	1:q:732:THR:CG2	2.45	0.47
1:r:387:VAL:HG12	1:r:388:GLY:H	1.80	0.47
1:u:600:VAL:HA	1:u:604:MET:CE	2.45	0.47
1:v:427:SER:HB3	1:v:732:THR:CG2	2.45	0.47
1:v:600:VAL:HA	1:v:604:MET:CE	2.45	0.47
1:w:234:TRP:NE1	1:w:298[A]:ARG:NH1	2.63	0.47
1:w:413:TYR:OH	1:w:641:HIS:O	2.31	0.47
1:w:427:SER:HB3	1:w:732:THR:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:288:HIS:HD2	1:x:614:GLN:HA	1.78	0.47
1:x:527:LYS:HG2	1:x:528:ASP:N	2.29	0.47
1:y:600:VAL:HA	1:y:604:MET:CE	2.45	0.47
1:z:427:SER:HB3	1:z:732:THR:CG2	2.45	0.47
1:1:387:VAL:HG12	1:1:388:GLY:H	1.80	0.47
1:1:689:GLU:OE1	1:1:689:GLU:N	2.40	0.47
1:4:583:LEU:O	1:4:588:ARG:NH1	2.44	0.47
1:4:710:VAL:O	1:4:713:THR:HG22	2.14	0.47
1:5:427:SER:HB3	1:5:732:THR:CG2	2.45	0.47
1:5:527:LYS:HG2	1:5:528:ASP:N	2.29	0.47
1:5:600:VAL:HA	1:5:604:MET:CE	2.45	0.47
1:6:527:LYS:HG2	1:6:528:ASP:N	2.29	0.47
1:8:710:VAL:O	1:8:713:THR:HG22	2.14	0.47
1:D:710:VAL:O	1:D:713:THR:HG22	2.14	0.47
1:E:413:TYR:OH	1:E:641:HIS:O	2.31	0.47
1:E:600:VAL:HA	1:E:604:MET:CE	2.45	0.47
1:I:600:VAL:HA	1:I:604:MET:CE	2.45	0.47
1:P:413:TYR:OH	1:P:641:HIS:O	2.31	0.47
1:S:387:VAL:HG12	1:S:388:GLY:H	1.80	0.47
1:T:427:SER:HB3	1:T:732:THR:CG2	2.45	0.47
1:T:710:VAL:O	1:T:713:THR:HG22	2.14	0.47
1:V:427:SER:HB3	1:V:732:THR:CG2	2.45	0.47
1:V:600:VAL:HA	1:V:604:MET:CE	2.45	0.47
1:W:527:LYS:HG2	1:W:528:ASP:N	2.29	0.47
1:e:387:VAL:HG12	1:e:388:GLY:H	1.79	0.47
1:e:527:LYS:HG2	1:e:528:ASP:N	2.29	0.47
1:f:234:TRP:CE3	1:f:298[B]:ARG:HD3	2.49	0.47
1:m:427:SER:HB3	1:m:732:THR:CG2	2.45	0.47
1:p:387:VAL:HG12	1:p:388:GLY:H	1.80	0.47
1:p:710:VAL:O	1:p:713:THR:HG22	2.14	0.47
1:q:387:VAL:HG12	1:q:388:GLY:H	1.79	0.47
1:r:710:VAL:O	1:r:713:THR:HG22	2.14	0.47
1:w:509:HIS:ND1	1:w:514:ASP:OD1	2.41	0.47
1:x:427:SER:HB3	1:x:732:THR:CG2	2.45	0.47
1:x:710:VAL:O	1:x:713:THR:HG22	2.14	0.47
1:y:527:LYS:HG2	1:y:528:ASP:N	2.29	0.47
1:1:710:VAL:O	1:1:713:THR:HG22	2.14	0.47
1:3:427:SER:HB3	1:3:732:THR:CG2	2.45	0.47
1:4:427:SER:HB3	1:4:732:THR:CG2	2.45	0.47
1:6:234:TRP:CZ3	1:6:298[B]:ARG:HG2	2.49	0.47
1:7:509:HIS:ND1	1:7:514:ASP:OD1	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:710:VAL:O	1:7:713:THR:HG22	2.14	0.47
1:B:710:VAL:O	1:B:713:THR:HG22	2.14	0.47
1:C:527:LYS:HG2	1:C:528:ASP:N	2.29	0.47
1:D:527:LYS:HG2	1:D:528:ASP:N	2.29	0.47
1:H:621:ILE:HG12	1:H:630:PRO:HB3	1.97	0.47
1:K:427:SER:HB3	1:K:732:THR:CG2	2.45	0.47
1:L:496:ASN:HD22	1:R:589:GLN:HA	1.78	0.47
1:Q:427:SER:HB3	1:Q:732:THR:CG2	2.45	0.47
1:Q:600:VAL:HA	1:Q:604:MET:CE	2.45	0.47
1:Q:710:VAL:O	1:Q:713:THR:HG22	2.14	0.47
1:R:387:VAL:HG12	1:R:388:GLY:H	1.79	0.47
1:R:621:ILE:HG12	1:R:630:PRO:HB3	1.97	0.47
1:S:601:LEU:N	1:S:604:MET:HE2	2.23	0.47
1:V:710:VAL:O	1:V:713:THR:HG22	2.14	0.47
1:Z:583:LEU:O	1:Z:588:ARG:NH1	2.44	0.47
1:b:621:ILE:HG12	1:b:630:PRO:HB3	1.97	0.47
1:c:387:VAL:HG12	1:c:388:GLY:H	1.79	0.47
1:d:600:VAL:HA	1:d:604:MET:CE	2.45	0.47
1:f:621:ILE:HG12	1:f:630:PRO:HB3	1.97	0.47
1:j:529:ASP:CG	1:o:382:ASN:HD21	2.23	0.47
1:k:285:ASN:O	1:k:617:ILE:N	2.40	0.47
1:l:413:TYR:OH	1:l:641:HIS:O	2.31	0.47
1:n:600:VAL:HA	1:n:604:MET:CE	2.45	0.47
1:p:229[A]:HIS:HE1	1:p:314:LYS:HZ1	1.61	0.47
1:p:600:VAL:HA	1:p:604:MET:CE	2.45	0.47
1:q:621:ILE:HG12	1:q:630:PRO:HB3	1.97	0.47
1:r:285:ASN:O	1:r:617:ILE:N	2.40	0.47
1:s:387:VAL:HG12	1:s:388:GLY:H	1.80	0.47
1:w:387:VAL:HG12	1:w:388:GLY:H	1.80	0.47
1:w:600:VAL:HA	1:w:604:MET:CE	2.45	0.47
1:x:600:VAL:HA	1:x:604:MET:CE	2.45	0.47
1:7:427:SER:HB3	1:7:732:THR:CG2	2.45	0.47
1:7:470:ILE:O	1:7:475:ARG:NH2	2.47	0.47
1:8:583:LEU:O	1:8:588:ARG:NH1	2.44	0.47
1:A:583:LEU:O	1:A:588:ARG:NH1	2.44	0.47
1:D:427:SER:HB3	1:D:732:THR:CG2	2.45	0.47
1:E:387:VAL:HG12	1:E:388:GLY:H	1.80	0.47
1:F:496:ASN:HD22	1:c:589:GLN:HA	1.80	0.47
1:F:527:LYS:HG2	1:F:528:ASP:N	2.29	0.47
1:F:710:VAL:O	1:F:713:THR:HG22	2.14	0.47
1:G:427:SER:HB3	1:G:732:THR:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:451:PRO:HA	1:G:456:THR:HG22	1.97	0.47
1:K:583:LEU:O	1:K:588:ARG:NH1	2.44	0.47
1:L:600:VAL:HA	1:L:604:MET:CE	2.45	0.47
1:O:427:SER:HB3	1:O:732:THR:CG2	2.45	0.47
1:P:589:GLN:HA	1:X:496:ASN:HD22	1.79	0.47
1:P:600:VAL:HA	1:P:604:MET:CE	2.45	0.47
1:S:527:LYS:HG2	1:S:528:ASP:N	2.29	0.47
1:T:413:TYR:OH	1:T:641:HIS:O	2.31	0.47
1:V:527:LYS:HG2	1:V:528:ASP:N	2.29	0.47
1:W:387:VAL:HG12	1:W:388:GLY:H	1.80	0.47
1:Y:427:SER:HB3	1:Y:732:THR:CG2	2.45	0.47
1:Y:470:ILE:O	1:Y:475:ARG:NH2	2.47	0.47
1:Y:600:VAL:HA	1:Y:604:MET:CE	2.45	0.47
1:b:710:VAL:O	1:b:713:THR:HG22	2.14	0.47
1:c:470:ILE:O	1:c:475:ARG:NH2	2.47	0.47
1:c:527:LYS:HG2	1:c:528:ASP:N	2.29	0.47
1:e:583:LEU:O	1:e:588:ARG:NH1	2.44	0.47
1:j:427:SER:HB3	1:j:732:THR:CG2	2.45	0.47
1:j:600:VAL:HA	1:j:604:MET:CE	2.45	0.47
1:k:527:LYS:HG2	1:k:528:ASP:N	2.29	0.47
1:n:527:LYS:HG2	1:n:528:ASP:N	2.29	0.47
1:n:628:PHE:O	1:n:629[B]:HIS:HB2	2.15	0.47
1:q:288:HIS:HD2	1:q:614:GLN:HA	1.78	0.47
1:t:427:SER:HB3	1:t:732:THR:CG2	2.45	0.47
1:t:451:PRO:HA	1:t:456:THR:HG22	1.97	0.47
1:u:451:PRO:HA	1:u:456:THR:HG22	1.97	0.47
1:w:710:VAL:O	1:w:713:THR:HG22	2.14	0.47
1:2:689:GLU:OE1	1:2:689:GLU:N	2.40	0.47
1:3:285:ASN:O	1:3:617:ILE:N	2.40	0.47
1:5:621:ILE:HG12	1:5:630:PRO:HB3	1.97	0.47
1:6:229[A]:HIS:CE1	1:6:314:LYS:NZ	2.82	0.47
1:6:470:ILE:O	1:6:475:ARG:NH2	2.47	0.47
1:C:427:SER:HB3	1:C:732:THR:CG2	2.45	0.46
1:E:621:ILE:HG12	1:E:630:PRO:HB3	1.97	0.46
1:E:710:VAL:O	1:E:713:THR:HG22	2.14	0.46
1:I:413:TYR:OH	1:I:641:HIS:O	2.31	0.46
1:I:451:PRO:HA	1:I:456:THR:HG22	1.98	0.46
1:M:600:VAL:HA	1:M:604:MET:CE	2.45	0.46
1:N:497:ASN:ND2	1:V:456:THR:O	2.36	0.46
1:O:387:VAL:HG12	1:O:388:GLY:H	1.79	0.46
1:P:427:SER:HB3	1:P:732:THR:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:288:HIS:HD2	1:R:614:GLN:HA	1.78	0.46
1:R:600:VAL:HA	1:R:604:MET:CE	2.45	0.46
1:S:285:ASN:O	1:S:617:ILE:N	2.40	0.46
1:S:427:SER:HB3	1:S:732:THR:CG2	2.45	0.46
1:Y:413:TYR:OH	1:Y:641:HIS:O	2.31	0.46
1:Z:387:VAL:HG12	1:Z:388:GLY:H	1.79	0.46
1:c:621:ILE:HG12	1:c:630:PRO:HB3	1.97	0.46
1:d:527:LYS:HG2	1:d:528:ASP:N	2.29	0.46
1:d:621:ILE:HG12	1:d:630:PRO:HB3	1.97	0.46
1:f:527:LYS:HG2	1:f:528:ASP:N	2.29	0.46
1:f:710:VAL:O	1:f:713:THR:HG22	2.14	0.46
1:g:413:TYR:OH	1:g:641:HIS:O	2.31	0.46
1:g:427:SER:HB3	1:g:732:THR:CG2	2.45	0.46
1:h:600:VAL:HA	1:h:604:MET:CE	2.45	0.46
1:i:285:ASN:O	1:i:617:ILE:N	2.40	0.46
1:k:427:SER:HB3	1:k:732:THR:CG2	2.45	0.46
1:l:427:SER:HB3	1:l:732:THR:CG2	2.45	0.46
1:m:600:VAL:HA	1:m:604:MET:CE	2.45	0.46
1:n:621:ILE:HG12	1:n:630:PRO:HB3	1.97	0.46
1:o:600:VAL:HA	1:o:604:MET:CE	2.45	0.46
1:p:527:LYS:HG2	1:p:528:ASP:N	2.29	0.46
1:r:427:SER:HB3	1:r:732:THR:CG2	2.45	0.46
1:r:527:LYS:HG2	1:r:528:ASP:N	2.29	0.46
1:s:427:SER:HB3	1:s:732:THR:CG2	2.45	0.46
1:w:621:ILE:HG12	1:w:630:PRO:HB3	1.97	0.46
1:y:451:PRO:HA	1:y:456:THR:HG22	1.97	0.46
1:y:509:HIS:ND1	1:y:514:ASP:OD1	2.40	0.46
1:y:710:VAL:O	1:y:713:THR:HG22	2.14	0.46
1:z:710:VAL:O	1:z:713:THR:HG22	2.14	0.46
1:7:600:VAL:HA	1:7:604:MET:CE	2.45	0.46
1:A:451:PRO:HA	1:A:456:THR:HG22	1.97	0.46
1:A:621:ILE:HG12	1:A:630:PRO:HB3	1.97	0.46
1:B:689:GLU:OE1	1:B:689:GLU:N	2.40	0.46
1:C:413:TYR:OH	1:C:641:HIS:O	2.31	0.46
1:F:451:PRO:HA	1:F:456:THR:HG22	1.97	0.46
1:G:285:ASN:O	1:G:617:ILE:N	2.40	0.46
1:G:583:LEU:O	1:G:588:ARG:NH1	2.44	0.46
1:J:689:GLU:OE1	1:J:689:GLU:N	2.40	0.46
1:K:395:LEU:HD13	1:K:647:LEU:HD23	1.98	0.46
1:U:285:ASN:O	1:U:617:ILE:N	2.40	0.46
1:U:427:SER:HB3	1:U:732:THR:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:710:VAL:O	1:U:713:THR:HG22	2.14	0.46
1:X:234:TRP:CZ2	1:X:298[A]:ARG:HB2	2.50	0.46
1:X:600:VAL:HA	1:X:604:MET:CE	2.45	0.46
1:Z:225:SER:HG	1:Z:317:ASN:H	1.59	0.46
1:e:621:ILE:HG12	1:e:630:PRO:HB3	1.97	0.46
1:i:600:VAL:HA	1:i:604:MET:CE	2.45	0.46
1:k:229[A]:HIS:CE1	1:k:314:LYS:NZ	2.82	0.46
1:n:427:SER:HB3	1:n:732:THR:CG2	2.45	0.46
1:o:387:VAL:HG12	1:o:388:GLY:H	1.79	0.46
1:q:600:VAL:HA	1:q:604:MET:CE	2.45	0.46
1:u:413:TYR:OH	1:u:641:HIS:O	2.31	0.46
1:v:583:LEU:O	1:v:588:ARG:NH1	2.44	0.46
1:w:234:TRP:CE3	1:w:298[B]:ARG:CD	2.99	0.46
1:z:600:VAL:HA	1:z:604:MET:CE	2.45	0.46
1:8:387:VAL:HG12	1:8:388:GLY:H	1.79	0.46
1:8:600:VAL:HA	1:8:604:MET:CE	2.45	0.46
1:B:451:PRO:HA	1:B:456:THR:HG22	1.98	0.46
1:D:387:VAL:HG12	1:D:388:GLY:H	1.80	0.46
1:G:496:ASN:HD22	1:7:589:GLN:HA	1.81	0.46
1:G:600:VAL:HA	1:G:604:MET:CE	2.45	0.46
1:H:451:PRO:HA	1:H:456:THR:HG22	1.98	0.46
1:J:395:LEU:HD13	1:J:647:LEU:HD23	1.98	0.46
1:L:710:VAL:O	1:L:713:THR:HG22	2.14	0.46
1:M:234:TRP:CZ2	1:M:298[A]:ARG:HB2	2.50	0.46
1:M:387:VAL:HG12	1:M:388:GLY:H	1.79	0.46
1:M:451:PRO:HA	1:M:456:THR:HG22	1.98	0.46
1:P:229[B]:HIS:HD2	1:P:242:THR:HG21	1.81	0.46
1:T:600:VAL:HA	1:T:604:MET:CE	2.45	0.46
1:U:600:VAL:HA	1:U:604:MET:CE	2.45	0.46
1:V:621:ILE:HG12	1:V:630:PRO:HB3	1.97	0.46
1:W:456:THR:O	1:l:497:ASN:ND2	2.36	0.46
1:W:470:ILE:O	1:W:475:ARG:NH2	2.47	0.46
1:X:301:ASN:HB3	1:X:699:GLN:HE22	1.81	0.46
1:Z:600:VAL:HA	1:Z:604:MET:CE	2.45	0.46
1:a:600:VAL:HA	1:a:604:MET:CE	2.45	0.46
1:b:527:LYS:HG2	1:b:528:ASP:N	2.29	0.46
1:d:427:SER:HB3	1:d:732:THR:CG2	2.45	0.46
1:e:234:TRP:CB	1:e:298[B]:ARG:HE	2.27	0.46
1:e:427:SER:HB3	1:e:732:THR:CG2	2.45	0.46
1:e:600:VAL:HA	1:e:604:MET:CE	2.45	0.46
1:k:387:VAL:HG12	1:k:388:GLY:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:600:VAL:HA	1:k:604:MET:CE	2.45	0.46
1:m:451:PRO:HA	1:m:456:THR:HG22	1.97	0.46
1:o:301:ASN:HB3	1:o:699:GLN:HE22	1.81	0.46
1:o:395:LEU:HD13	1:o:647:LEU:HD23	1.98	0.46
1:p:234:TRP:HE1	1:p:298[A]:ARG:HH11	1.62	0.46
1:p:621:ILE:HG12	1:p:630:PRO:HB3	1.97	0.46
1:s:710:VAL:O	1:s:713:THR:HG22	2.14	0.46
1:t:285:ASN:O	1:t:617:ILE:N	2.40	0.46
1:t:583:LEU:O	1:t:588:ARG:NH1	2.44	0.46
1:v:451:PRO:HA	1:v:456:THR:HG22	1.97	0.46
1:v:621:ILE:HG12	1:v:630:PRO:HB3	1.97	0.46
1:1:451:PRO:HA	1:1:456:THR:HG22	1.97	0.46
1:3:628:PHE:O	1:3:629[B]:HIS:HB2	2.15	0.46
1:4:395:LEU:HD13	1:4:647:LEU:HD23	1.98	0.46
1:5:413:TYR:OH	1:5:641:HIS:O	2.31	0.46
1:5:451:PRO:HA	1:5:456:THR:HG22	1.98	0.46
1:6:387:VAL:HG12	1:6:388:GLY:H	1.80	0.46
1:B:427:SER:HB3	1:B:732:THR:CG2	2.45	0.46
1:C:387:VAL:HG12	1:C:388:GLY:H	1.80	0.46
1:C:451:PRO:HA	1:C:456:THR:HG22	1.97	0.46
1:D:621:ILE:HG12	1:D:630:PRO:HB3	1.97	0.46
1:H:413:TYR:OH	1:H:641:HIS:O	2.31	0.46
1:L:621:ILE:HG12	1:L:630:PRO:HB3	1.97	0.46
1:N:301:ASN:HB3	1:N:699:GLN:HE22	1.81	0.46
1:N:450:THR:HG1	1:N:461:GLN:HE22	1.60	0.46
1:O:600:VAL:HA	1:O:604:MET:CE	2.45	0.46
1:P:395:LEU:HD13	1:P:647:LEU:HD23	1.98	0.46
1:T:451:PRO:HA	1:T:456:THR:HG22	1.98	0.46
1:W:600:VAL:HA	1:W:604:MET:CE	2.45	0.46
1:c:427:SER:HB3	1:c:732:THR:CG2	2.45	0.46
1:e:470:ILE:O	1:e:475:ARG:NH2	2.47	0.46
1:g:387:VAL:HG12	1:g:388:GLY:H	1.80	0.46
1:g:451:PRO:HA	1:g:456:THR:HG22	1.97	0.46
1:h:451:PRO:HA	1:h:456:THR:HG22	1.98	0.46
1:j:395:LEU:HD13	1:j:647:LEU:HD23	1.98	0.46
1:l:600:VAL:HA	1:l:604:MET:CE	2.45	0.46
1:s:600:VAL:HA	1:s:604:MET:CE	2.45	0.46
1:u:301:ASN:HB3	1:u:699:GLN:HE22	1.81	0.46
1:u:470:ILE:O	1:u:475:ARG:NH2	2.47	0.46
1:1:621:ILE:HG12	1:1:630:PRO:HB3	1.97	0.46
1:3:600:VAL:HA	1:3:604:MET:CE	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:600:VAL:HA	1:6:604:MET:CE	2.45	0.46
1:A:234:TRP:CE2	1:A:298[B]:ARG:HD3	2.51	0.46
1:A:589:GLN:HA	1:n:496:ASN:HD22	1.80	0.46
1:B:621:ILE:HG12	1:B:630:PRO:HB3	1.97	0.46
1:C:497:ASN:ND2	1:t:456:THR:O	2.37	0.46
1:D:451:PRO:HA	1:D:456:THR:HG22	1.97	0.46
1:D:508:TYR:HD2	1:D:517:VAL:HG22	1.81	0.46
1:D:600:VAL:HA	1:D:604:MET:CE	2.45	0.46
1:F:621:ILE:HG12	1:F:630:PRO:HB3	1.97	0.46
1:G:621:ILE:HG12	1:G:630:PRO:HB3	1.97	0.46
1:I:301:ASN:HB3	1:I:699:GLN:HE22	1.81	0.46
1:I:470:ILE:O	1:I:475:ARG:NH2	2.47	0.46
1:M:301:ASN:HB3	1:M:699:GLN:HE22	1.81	0.46
1:N:600:VAL:HA	1:N:604:MET:CE	2.45	0.46
1:O:451:PRO:HA	1:O:456:THR:HG22	1.97	0.46
1:O:621:ILE:HG12	1:O:630:PRO:HB3	1.97	0.46
1:R:301:ASN:HB3	1:R:699:GLN:HE22	1.81	0.46
1:R:451:PRO:HA	1:R:456:THR:HG22	1.98	0.46
1:R:601:LEU:N	1:R:604:MET:HE2	2.23	0.46
1:U:527:LYS:HG2	1:U:528:ASP:N	2.29	0.46
1:W:395:LEU:HD13	1:W:647:LEU:HD23	1.98	0.46
1:X:387:VAL:HG12	1:X:388:GLY:H	1.80	0.46
1:X:395:LEU:HD13	1:X:647:LEU:HD23	1.98	0.46
1:Y:387:VAL:HG12	1:Y:388:GLY:H	1.79	0.46
1:Z:301:ASN:HB3	1:Z:699:GLN:HE22	1.81	0.46
1:a:451:PRO:HA	1:a:456:THR:HG22	1.97	0.46
1:c:600:VAL:HA	1:c:604:MET:CE	2.45	0.46
1:h:387:VAL:HG12	1:h:388:GLY:H	1.79	0.46
1:h:497:ASN:ND2	1:5:456:THR:O	2.38	0.46
1:i:301:ASN:HB3	1:i:699:GLN:HE22	1.81	0.46
1:i:470:ILE:O	1:i:475:ARG:NH2	2.47	0.46
1:n:301:ASN:HB3	1:n:699:GLN:HE22	1.81	0.46
1:q:301:ASN:HB3	1:q:699:GLN:HE22	1.81	0.46
1:q:527:LYS:HG2	1:q:528:ASP:N	2.29	0.46
1:s:285:ASN:O	1:s:617:ILE:N	2.40	0.46
1:t:600:VAL:HA	1:t:604:MET:CE	2.45	0.46
1:t:621:ILE:HG12	1:t:630:PRO:HB3	1.97	0.46
1:u:527:LYS:HG2	1:u:528:ASP:N	2.29	0.46
1:x:621:ILE:HG12	1:x:630:PRO:HB3	1.97	0.46
1:y:387:VAL:HG12	1:y:388:GLY:H	1.79	0.46
1:2:395:LEU:HD13	1:2:647:LEU:HD23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:527:LYS:HG2	1:4:528:ASP:N	2.29	0.46
1:4:600:VAL:HA	1:4:604:MET:CE	2.45	0.46
1:A:387:VAL:HG12	1:A:388:GLY:H	1.79	0.46
1:F:301:ASN:HB3	1:F:699:GLN:HE22	1.81	0.46
1:F:387:VAL:HG12	1:F:388:GLY:H	1.79	0.46
1:F:395:LEU:HD13	1:F:647:LEU:HD23	1.98	0.46
1:G:301:ASN:HB3	1:G:699:GLN:HE22	1.81	0.46
1:H:229[B]:HIS:HD2	1:H:242:THR:HG21	1.81	0.46
1:H:387:VAL:HG12	1:H:388:GLY:H	1.80	0.46
1:I:527:LYS:HG2	1:I:528:ASP:N	2.29	0.46
1:J:301:ASN:HB3	1:J:699:GLN:HE22	1.81	0.46
1:K:600:VAL:HA	1:K:604:MET:CE	2.45	0.46
1:K:621:ILE:HG12	1:K:630:PRO:HB3	1.97	0.46
1:P:301:ASN:HB3	1:P:699:GLN:HE22	1.81	0.46
1:R:508:TYR:HD2	1:R:517:VAL:HG22	1.81	0.46
1:X:527:LYS:HG2	1:X:528:ASP:N	2.29	0.46
1:Y:395:LEU:HD13	1:Y:647:LEU:HD23	1.98	0.46
1:d:301:ASN:HB3	1:d:699:GLN:HE22	1.81	0.46
1:h:382:ASN:HD21	1:5:529:ASP:CG	2.23	0.46
1:h:456:THR:O	1:m:497:ASN:ND2	2.37	0.46
1:j:301:ASN:HB3	1:j:699:GLN:HE22	1.81	0.46
1:k:451:PRO:HA	1:k:456:THR:HG22	1.97	0.46
1:k:508:TYR:HD2	1:k:517:VAL:HG22	1.81	0.46
1:k:621:ILE:HG12	1:k:630:PRO:HB3	1.97	0.46
1:l:621:ILE:HG12	1:l:630:PRO:HB3	1.97	0.46
1:q:451:PRO:HA	1:q:456:THR:HG22	1.97	0.46
1:t:301:ASN:HB3	1:t:699:GLN:HE22	1.81	0.46
1:u:387:VAL:HG12	1:u:388:GLY:H	1.79	0.46
1:w:470:ILE:O	1:w:475:ARG:NH2	2.47	0.46
1:y:427:SER:HB3	1:y:732:THR:CG2	2.45	0.46
1:z:451:PRO:HA	1:z:456:THR:HG22	1.98	0.46
1:z:621:ILE:HG12	1:z:630:PRO:HB3	1.97	0.46
1:1:427:SER:HB3	1:1:732:THR:CG2	2.45	0.46
1:3:451:PRO:HA	1:3:456:THR:HG22	1.98	0.46
1:4:301:ASN:HB3	1:4:699:GLN:HE22	1.81	0.46
1:5:387:VAL:HG12	1:5:388:GLY:H	1.79	0.46
1:6:395:LEU:HD13	1:6:647:LEU:HD23	1.98	0.46
1:7:395:LEU:HD13	1:7:647:LEU:HD23	1.98	0.46
1:8:301:ASN:HB3	1:8:699:GLN:HE22	1.81	0.46
1:J:413:TYR:OH	1:J:641:HIS:O	2.31	0.46
1:J:508:TYR:HD2	1:J:517:VAL:HG22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:301:ASN:HB3	1:K:699:GLN:HE22	1.81	0.46
1:K:527:LYS:HG2	1:K:528:ASP:N	2.29	0.46
1:M:470:ILE:O	1:M:475:ARG:NH2	2.47	0.46
1:N:470:ILE:O	1:N:475:ARG:NH2	2.47	0.46
1:P:451:PRO:HA	1:P:456:THR:HG22	1.97	0.46
1:Q:497:ASN:ND2	1:Z:456:THR:O	2.37	0.46
1:Q:621:ILE:HG12	1:Q:630:PRO:HB3	1.97	0.46
1:S:301:ASN:HB3	1:S:699:GLN:HE22	1.81	0.46
1:T:301:ASN:HB3	1:T:699:GLN:HE22	1.81	0.46
1:U:395:LEU:HD13	1:U:647:LEU:HD23	1.98	0.46
1:Y:621:ILE:HG12	1:Y:630:PRO:HB3	1.97	0.46
1:a:382:ASN:HD21	1:y:529:ASP:CG	2.24	0.46
1:b:395:LEU:HD13	1:b:647:LEU:HD23	1.98	0.46
1:c:395:LEU:HD13	1:c:647:LEU:HD23	1.98	0.46
1:c:508:TYR:HD2	1:c:517:VAL:HG22	1.81	0.46
1:f:395:LEU:HD13	1:f:647:LEU:HD23	1.98	0.46
1:h:301:ASN:HB3	1:h:699:GLN:HE22	1.81	0.46
1:h:529:ASP:CG	1:m:382:ASN:HD21	2.24	0.46
1:i:527:LYS:HG2	1:i:528:ASP:N	2.29	0.46
1:m:301:ASN:HB3	1:m:699:GLN:HE22	1.81	0.46
1:m:508:TYR:HD2	1:m:517:VAL:HG22	1.81	0.46
1:m:529:ASP:CG	1:5:382:ASN:HD21	2.24	0.46
1:p:285:ASN:O	1:p:617:ILE:N	2.40	0.46
1:q:450:THR:HG1	1:q:461:GLN:HE22	1.60	0.46
1:q:508:TYR:HD2	1:q:517:VAL:HG22	1.81	0.46
1:r:301:ASN:HB3	1:r:699:GLN:HE22	1.81	0.46
1:r:600:VAL:HA	1:r:604:MET:CE	2.45	0.46
1:s:395:LEU:HD13	1:s:647:LEU:HD23	1.98	0.46
1:s:527:LYS:HG2	1:s:528:ASP:N	2.29	0.46
1:v:387:VAL:HG12	1:v:388:GLY:H	1.79	0.46
1:w:601:LEU:N	1:w:604:MET:HE2	2.23	0.46
1:y:395:LEU:HD13	1:y:647:LEU:HD23	1.98	0.46
1:y:621:ILE:HG12	1:y:630:PRO:HB3	1.97	0.46
1:z:527:LYS:HG2	1:z:528:ASP:N	2.29	0.46
1:2:301:ASN:HB3	1:2:699:GLN:HE22	1.81	0.46
1:2:413:TYR:OH	1:2:641:HIS:O	2.31	0.46
1:2:508:TYR:HD2	1:2:517:VAL:HG22	1.81	0.46
1:5:301:ASN:HB3	1:5:699:GLN:HE22	1.81	0.46
1:5:450:THR:HG1	1:5:461:GLN:HE22	1.64	0.46
1:7:387:VAL:HG12	1:7:388:GLY:H	1.79	0.46
1:A:234:TRP:CH2	1:A:298[A]:ARG:HB2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:301:ASN:HB3	1:A:699:GLN:HE22	1.81	0.46
1:C:301:ASN:HB3	1:C:699:GLN:HE22	1.81	0.46
1:E:395:LEU:HD13	1:E:647:LEU:HD23	1.98	0.46
1:E:470:ILE:O	1:E:475:ARG:NH2	2.47	0.46
1:F:427:SER:HB3	1:F:732:THR:CG2	2.45	0.46
1:G:295:ASP:OD1	1:G:298[A]:ARG:NH1	2.49	0.46
1:H:301:ASN:HB3	1:H:699:GLN:HE22	1.81	0.46
1:H:450:THR:HG1	1:H:461:GLN:HE22	1.64	0.46
1:I:387:VAL:HG12	1:I:388:GLY:H	1.79	0.46
1:J:451:PRO:HA	1:J:456:THR:HG22	1.97	0.46
1:L:301:ASN:HB3	1:L:699:GLN:HE22	1.81	0.46
1:L:451:PRO:HA	1:L:456:THR:HG22	1.98	0.46
1:L:527:LYS:HG2	1:L:528:ASP:N	2.29	0.46
1:M:589:GLN:HA	1:T:496:ASN:HD22	1.80	0.46
1:N:527:LYS:HG2	1:N:528:ASP:N	2.29	0.46
1:O:413:TYR:OH	1:O:641:HIS:O	2.31	0.46
1:Q:451:PRO:HA	1:Q:456:THR:HG22	1.97	0.46
1:R:527:LYS:HG2	1:R:528:ASP:N	2.29	0.46
1:S:600:VAL:HA	1:S:604:MET:CE	2.45	0.46
1:T:508:TYR:HD2	1:T:517:VAL:HG22	1.81	0.46
1:T:527:LYS:HG2	1:T:528:ASP:N	2.29	0.46
1:V:285:ASN:O	1:V:617:ILE:N	2.40	0.46
1:a:301:ASN:HB3	1:a:699:GLN:HE22	1.81	0.46
1:d:508:TYR:HD2	1:d:517:VAL:HG22	1.81	0.46
1:e:395:LEU:HD13	1:e:647:LEU:HD23	1.98	0.46
1:e:508:TYR:HD2	1:e:517:VAL:HG22	1.81	0.46
1:h:470:ILE:O	1:h:475:ARG:NH2	2.47	0.46
1:j:451:PRO:HA	1:j:456:THR:HG22	1.98	0.46
1:l:451:PRO:HA	1:l:456:THR:HG22	1.98	0.46
1:m:387:VAL:HG12	1:m:388:GLY:H	1.80	0.46
1:m:527:LYS:HG2	1:m:528:ASP:N	2.29	0.46
1:n:508:TYR:HD2	1:n:517:VAL:HG22	1.81	0.46
1:o:527:LYS:HG2	1:o:528:ASP:N	2.29	0.46
1:q:395:LEU:HD13	1:q:647:LEU:HD23	1.98	0.46
1:q:470:ILE:O	1:q:475:ARG:NH2	2.47	0.46
1:t:234:TRP:CE3	1:t:298[B]:ARG:CD	2.99	0.46
1:t:234:TRP:NE1	1:t:298[A]:ARG:NH1	2.63	0.46
1:t:508:TYR:HD2	1:t:517:VAL:HG22	1.81	0.46
1:u:601:LEU:N	1:u:604:MET:HE2	2.23	0.46
1:v:301:ASN:HB3	1:v:699:GLN:HE22	1.81	0.46
1:z:301:ASN:HB3	1:z:699:GLN:HE22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:600:VAL:HA	1:2:604:MET:CE	2.45	0.46
1:3:301:ASN:HB3	1:3:699:GLN:HE22	1.81	0.46
1:4:621:ILE:HG12	1:4:630:PRO:HB3	1.97	0.46
1:6:427:SER:HB3	1:6:732:THR:CG2	2.45	0.46
1:F:234:TRP:CH2	1:F:298[A]:ARG:HB2	2.51	0.46
1:G:508:TYR:HD2	1:G:517:VAL:HG22	1.81	0.46
1:J:600:VAL:HA	1:J:604:MET:CE	2.45	0.46
1:M:395:LEU:HD13	1:M:647:LEU:HD23	1.98	0.46
1:N:387:VAL:HG12	1:N:388:GLY:H	1.79	0.46
1:N:621:ILE:HG12	1:N:630:PRO:HB3	1.97	0.46
1:R:395:LEU:HD13	1:R:647:LEU:HD23	1.98	0.46
1:S:470:ILE:O	1:S:475:ARG:NH2	2.47	0.46
1:T:470:ILE:O	1:T:475:ARG:NH2	2.47	0.46
1:U:508:TYR:HD2	1:U:517:VAL:HG22	1.81	0.46
1:W:427:SER:HB3	1:W:732:THR:CG2	2.45	0.46
1:X:621:ILE:HG12	1:X:630:PRO:HB3	1.97	0.46
1:Z:451:PRO:HA	1:Z:456:THR:HG22	1.97	0.46
1:b:387:VAL:HG12	1:b:388:GLY:H	1.79	0.46
1:c:429:SER:HA	1:c:567:THR:HB	1.98	0.46
1:e:301:ASN:HB3	1:e:699:GLN:HE22	1.81	0.46
1:g:301:ASN:HB3	1:g:699:GLN:HE22	1.81	0.46
1:i:427:SER:HB3	1:i:732:THR:CG2	2.45	0.46
1:m:470:ILE:O	1:m:475:ARG:NH2	2.47	0.46
1:q:601:LEU:N	1:q:604:MET:HE2	2.23	0.46
1:s:301:ASN:HB3	1:s:699:GLN:HE22	1.81	0.46
1:s:450:THR:HG1	1:s:461:GLN:HE22	1.64	0.46
1:s:508:TYR:HD2	1:s:517:VAL:HG22	1.81	0.46
1:u:621:ILE:HG12	1:u:630:PRO:HB3	1.97	0.46
1:w:395:LEU:HD13	1:w:647:LEU:HD23	1.98	0.46
1:1:600:VAL:HA	1:1:604:MET:CE	2.45	0.46
1:6:429:SER:HA	1:6:567:THR:HB	1.98	0.46
1:7:621:ILE:HG12	1:7:630:PRO:HB3	1.97	0.46
1:B:600:VAL:HA	1:B:604:MET:CE	2.45	0.46
1:C:429:SER:HA	1:C:567:THR:HB	1.98	0.46
1:C:621:ILE:HG12	1:C:630:PRO:HB3	1.97	0.46
1:E:601:LEU:N	1:E:604:MET:HE2	2.23	0.46
1:G:304:TRP:CE2	1:G:689:GLU:HB2	2.51	0.46
1:H:508:TYR:HD2	1:H:517:VAL:HG22	1.81	0.46
1:K:304:TRP:CE2	1:K:689:GLU:HB2	2.52	0.46
1:K:451:PRO:HA	1:K:456:THR:HG22	1.97	0.46
1:L:429:SER:HA	1:L:567:THR:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:429:SER:HA	1:M:567:THR:HB	1.98	0.46
1:O:565:ILE:HG23	1:O:565:ILE:HD12	1.75	0.46
1:R:470:ILE:O	1:R:475:ARG:NH2	2.47	0.46
1:T:387:VAL:HG12	1:T:388:GLY:H	1.80	0.46
1:U:301:ASN:HB3	1:U:699:GLN:HE22	1.81	0.46
1:U:451:PRO:HA	1:U:456:THR:HG22	1.97	0.46
1:V:451:PRO:HA	1:V:456:THR:HG22	1.97	0.46
1:W:429:SER:HA	1:W:567:THR:HB	1.98	0.46
1:W:621:ILE:HG12	1:W:630:PRO:HB3	1.97	0.46
1:X:470:ILE:O	1:X:475:ARG:NH2	2.47	0.46
1:Z:601:LEU:N	1:Z:604:MET:HE2	2.23	0.46
1:c:451:PRO:HA	1:c:456:THR:HG22	1.97	0.46
1:g:395:LEU:HD13	1:g:647:LEU:HD23	1.98	0.46
1:g:621:ILE:HG12	1:g:630:PRO:HB3	1.97	0.46
1:h:395:LEU:HD13	1:h:647:LEU:HD23	1.98	0.46
1:l:527:LYS:HG2	1:l:528:ASP:N	2.29	0.46
1:l:529:ASP:CG	1:u:382:ASN:HD21	2.24	0.46
1:o:470:ILE:O	1:o:475:ARG:NH2	2.47	0.46
1:r:470:ILE:O	1:r:475:ARG:NH2	2.47	0.46
1:s:429:SER:HA	1:s:567:THR:HB	1.98	0.46
1:x:451:PRO:HA	1:x:456:THR:HG22	1.97	0.46
1:y:301:ASN:HB3	1:y:699:GLN:HE22	1.81	0.46
1:z:429:SER:HA	1:z:567:THR:HB	1.98	0.46
1:2:451:PRO:HA	1:2:456:THR:HG22	1.98	0.46
1:2:621:ILE:HG12	1:2:630:PRO:HB3	1.97	0.46
1:4:304:TRP:CE2	1:4:689:GLU:HB2	2.52	0.46
1:4:451:PRO:HA	1:4:456:THR:HG22	1.97	0.46
1:6:621:ILE:HG12	1:6:630:PRO:HB3	1.97	0.46
1:8:395:LEU:HD13	1:8:647:LEU:HD23	1.98	0.46
1:8:451:PRO:HA	1:8:456:THR:HG22	1.98	0.46
1:C:395:LEU:HD13	1:C:647:LEU:HD23	1.98	0.45
1:E:429:SER:HA	1:E:567:THR:HB	1.98	0.45
1:E:451:PRO:HA	1:E:456:THR:HG22	1.98	0.45
1:F:304:TRP:CE2	1:F:689:GLU:HB2	2.52	0.45
1:I:601:LEU:N	1:I:604:MET:HE2	2.23	0.45
1:N:427:SER:HB3	1:N:732:THR:CG2	2.45	0.45
1:N:429:SER:HA	1:N:567:THR:HB	1.98	0.45
1:N:451:PRO:HA	1:N:456:THR:HG22	1.97	0.45
1:N:508:TYR:HD2	1:N:517:VAL:HG22	1.81	0.45
1:N:689:GLU:OE1	1:N:689:GLU:N	2.40	0.45
1:R:450:THR:HG1	1:R:461:GLN:HE22	1.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:451:PRO:HA	1:W:456:THR:HG22	1.97	0.45
1:X:429:SER:HA	1:X:567:THR:HB	1.98	0.45
1:c:301:ASN:HB3	1:c:699:GLN:HE22	1.81	0.45
1:d:451:PRO:HA	1:d:456:THR:HG22	1.97	0.45
1:e:429:SER:HA	1:e:567:THR:HB	1.98	0.45
1:g:429:SER:HA	1:g:567:THR:HB	1.98	0.45
1:i:387:VAL:HG12	1:i:388:GLY:H	1.79	0.45
1:i:429:SER:HA	1:i:567:THR:HB	1.98	0.45
1:i:508:TYR:HD2	1:i:517:VAL:HG22	1.81	0.45
1:i:621:ILE:HG12	1:i:630:PRO:HB3	1.97	0.45
1:j:382:ASN:HD21	1:4:529:ASP:CG	2.24	0.45
1:j:456:THR:O	1:o:497:ASN:ND2	2.37	0.45
1:l:387:VAL:HG12	1:l:388:GLY:H	1.80	0.45
1:o:456:THR:O	1:4:497:ASN:ND2	2.37	0.45
1:p:451:PRO:HA	1:p:456:THR:HG22	1.97	0.45
1:t:304:TRP:CE2	1:t:689:GLU:HB2	2.52	0.45
1:w:429:SER:HA	1:w:567:THR:HB	1.98	0.45
1:w:451:PRO:HA	1:w:456:THR:HG22	1.97	0.45
1:y:304:TRP:CE2	1:y:689:GLU:HB2	2.52	0.45
1:2:509:HIS:ND1	1:2:514:ASP:OD1	2.40	0.45
1:3:429:SER:HA	1:3:567:THR:HB	1.98	0.45
1:5:508:TYR:HD2	1:5:517:VAL:HG22	1.81	0.45
1:6:509:HIS:ND1	1:6:514:ASP:OD1	2.40	0.45
1:B:223:ASN:N	1:K:404:ARG:HD2	2.31	0.45
1:E:295:ASP:OD1	1:E:298[A]:ARG:NH1	2.49	0.45
1:E:301:ASN:HB3	1:E:699:GLN:HE22	1.81	0.45
1:F:508:TYR:HD2	1:F:517:VAL:HG22	1.81	0.45
1:H:395:LEU:HD13	1:H:647:LEU:HD23	1.98	0.45
1:I:621:ILE:HG12	1:I:630:PRO:HB3	1.97	0.45
1:J:429:SER:HA	1:J:567:THR:HB	1.98	0.45
1:J:621:ILE:HG12	1:J:630:PRO:HB3	1.97	0.45
1:K:496:ASN:HD22	1:X:589:GLN:HA	1.80	0.45
1:K:508:TYR:HD2	1:K:517:VAL:HG22	1.81	0.45
1:K:509:HIS:ND1	1:K:514:ASP:OD1	2.40	0.45
1:M:234:TRP:CD2	1:M:298[B]:ARG:HD3	2.49	0.45
1:R:429:SER:HA	1:R:567:THR:HB	1.98	0.45
1:S:395:LEU:HD13	1:S:647:LEU:HD23	1.98	0.45
1:S:497:ASN:ND2	1:z:456:THR:O	2.37	0.45
1:U:429:SER:HA	1:U:567:THR:HB	1.98	0.45
1:V:304:TRP:CE2	1:V:689:GLU:HB2	2.52	0.45
1:X:427:SER:HB3	1:X:732:THR:CG2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:621:ILE:HG12	1:a:630:PRO:HB3	1.97	0.45
1:c:496:ASN:HD22	1:3:589:GLN:HA	1.81	0.45
1:d:382:ASN:HD21	1:v:529:ASP:CG	2.24	0.45
1:g:583:LEU:O	1:g:588:ARG:NH1	2.44	0.45
1:h:429:SER:HA	1:h:567:THR:HB	1.99	0.45
1:l:508:TYR:HD2	1:l:517:VAL:HG22	1.81	0.45
1:m:583:LEU:O	1:m:588:ARG:NH1	2.44	0.45
1:n:451:PRO:HA	1:n:456:THR:HG22	1.98	0.45
1:o:621:ILE:HG12	1:o:630:PRO:HB3	1.97	0.45
1:p:395:LEU:HD13	1:p:647:LEU:HD23	1.98	0.45
1:p:413:TYR:OH	1:p:641:HIS:O	2.31	0.45
1:s:451:PRO:HA	1:s:456:THR:HG22	1.98	0.45
1:u:508:TYR:HD2	1:u:517:VAL:HG22	1.81	0.45
1:v:395:LEU:HD13	1:v:647:LEU:HD23	1.98	0.45
1:w:301:ASN:HB3	1:w:699:GLN:HE22	1.81	0.45
1:w:508:TYR:HD2	1:w:517:VAL:HG22	1.81	0.45
1:x:395:LEU:HD13	1:x:647:LEU:HD23	1.98	0.45
1:3:470:ILE:O	1:3:475:ARG:NH2	2.47	0.45
1:6:451:PRO:HA	1:6:456:THR:HG22	1.98	0.45
1:6:508:TYR:HD2	1:6:517:VAL:HG22	1.81	0.45
1:8:234:TRP:CD2	1:8:298[B]:ARG:NE	2.83	0.45
1:A:395:LEU:HD13	1:A:647:LEU:HD23	1.98	0.45
1:B:365:PHE:CE2	1:B:367:ALA:HB3	2.52	0.45
1:C:600:VAL:HA	1:C:604:MET:CE	2.45	0.45
1:H:365:PHE:CE2	1:H:367:ALA:HB3	2.52	0.45
1:I:304:TRP:CE2	1:I:689:GLU:HB2	2.52	0.45
1:I:508:TYR:HD2	1:I:517:VAL:HG22	1.81	0.45
1:O:527:LYS:HG2	1:O:528:ASP:N	2.29	0.45
1:P:508:TYR:HD2	1:P:517:VAL:HG22	1.81	0.45
1:S:621:ILE:HG12	1:S:630:PRO:HB3	1.97	0.45
1:T:429:SER:HA	1:T:567:THR:HB	1.98	0.45
1:W:508:TYR:HD2	1:W:517:VAL:HG22	1.81	0.45
1:Y:508:TYR:HD2	1:Y:517:VAL:HG22	1.81	0.45
1:Z:395:LEU:HD13	1:Z:647:LEU:HD23	1.98	0.45
1:a:304:TRP:CE2	1:a:689:GLU:HB2	2.52	0.45
1:a:429:SER:HA	1:a:567:THR:HB	1.98	0.45
1:a:470:ILE:O	1:a:475:ARG:NH2	2.47	0.45
1:d:365:PHE:CE2	1:d:367:ALA:HB3	2.52	0.45
1:e:451:PRO:HA	1:e:456:THR:HG22	1.97	0.45
1:i:451:PRO:HA	1:i:456:THR:HG22	1.98	0.45
1:j:470:ILE:O	1:j:475:ARG:NH2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:304:TRP:CE2	1:l:689:GLU:HB2	2.52	0.45
1:m:234:TRP:NE1	1:m:298[A]:ARG:HH11	2.15	0.45
1:m:429:SER:HA	1:m:567:THR:HB	1.98	0.45
1:n:365:PHE:CE2	1:n:367:ALA:HB3	2.52	0.45
1:o:427:SER:HB3	1:o:732:THR:CG2	2.45	0.45
1:o:508:TYR:HD2	1:o:517:VAL:HG22	1.81	0.45
1:p:301:ASN:HB3	1:p:699:GLN:HE22	1.81	0.45
1:p:304:TRP:CE2	1:p:689:GLU:HB2	2.52	0.45
1:q:429:SER:HA	1:q:567:THR:HB	1.98	0.45
1:q:529:ASP:CG	1:z:382:ASN:HD21	2.23	0.45
1:r:395:LEU:HD13	1:r:647:LEU:HD23	1.98	0.45
1:r:621:ILE:HG12	1:r:630:PRO:HB3	1.97	0.45
1:s:382:ASN:HD21	1:1:529:ASP:CG	2.24	0.45
1:u:304:TRP:CE2	1:u:689:GLU:HB2	2.52	0.45
1:v:429:SER:HA	1:v:567:THR:HB	1.98	0.45
1:x:508:TYR:HD2	1:x:517:VAL:HG22	1.81	0.45
1:y:508:TYR:HD2	1:y:517:VAL:HG22	1.81	0.45
1:2:429:SER:HA	1:2:567:THR:HB	1.98	0.45
1:3:304:TRP:CE2	1:3:689:GLU:HB2	2.52	0.45
1:3:365:PHE:CE2	1:3:367:ALA:HB3	2.52	0.45
1:4:508:TYR:HD2	1:4:517:VAL:HG22	1.81	0.45
1:5:365:PHE:CE2	1:5:367:ALA:HB3	2.52	0.45
1:5:395:LEU:HD13	1:5:647:LEU:HD23	1.98	0.45
1:6:304:TRP:CE2	1:6:689:GLU:HB2	2.52	0.45
1:6:413:TYR:OH	1:6:641:HIS:O	2.31	0.45
1:7:301:ASN:HB3	1:7:699:GLN:HE22	1.81	0.45
1:8:621:ILE:HG12	1:8:630:PRO:HB3	1.97	0.45
1:B:301:ASN:HB3	1:B:699:GLN:HE22	1.81	0.45
1:B:395:LEU:HD13	1:B:647:LEU:HD23	1.98	0.45
1:C:365:PHE:CE2	1:C:367:ALA:HB3	2.52	0.45
1:E:508:TYR:HD2	1:E:517:VAL:HG22	1.81	0.45
1:J:304:TRP:CE2	1:J:689:GLU:HB2	2.52	0.45
1:O:304:TRP:CE2	1:O:689:GLU:HB2	2.52	0.45
1:W:304:TRP:CE2	1:W:689:GLU:HB2	2.52	0.45
1:Y:301:ASN:HB3	1:Y:699:GLN:HE22	1.81	0.45
1:Z:429:SER:HA	1:Z:567:THR:HB	1.98	0.45
1:Z:621:ILE:HG12	1:Z:630:PRO:HB3	1.97	0.45
1:a:365:PHE:CE2	1:a:367:ALA:HB3	2.52	0.45
1:c:304:TRP:CE2	1:c:689:GLU:HB2	2.52	0.45
1:e:529:ASP:CG	1:y:382:ASN:HD21	2.25	0.45
1:f:387:VAL:HG12	1:f:388:GLY:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:600:VAL:HA	1:g:604:MET:CE	2.45	0.45
1:j:508:TYR:HD2	1:j:517:VAL:HG22	1.81	0.45
1:k:429:SER:HA	1:k:567:THR:HB	1.98	0.45
1:m:395:LEU:HD13	1:m:647:LEU:HD23	1.98	0.45
1:p:429:SER:HA	1:p:567:THR:HB	1.98	0.45
1:r:508:TYR:HD2	1:r:517:VAL:HG22	1.81	0.45
1:s:621:ILE:HG12	1:s:630:PRO:HB3	1.97	0.45
1:t:413:TYR:OH	1:t:641:HIS:O	2.31	0.45
1:x:304:TRP:CE2	1:x:689:GLU:HB2	2.52	0.45
1:1:365:PHE:CE2	1:1:367:ALA:HB3	2.52	0.45
1:1:470:ILE:O	1:1:475:ARG:NH2	2.47	0.45
1:1:508:TYR:HD2	1:1:517:VAL:HG22	1.81	0.45
1:2:304:TRP:CE2	1:2:689:GLU:HB2	2.52	0.45
1:3:621:ILE:HG12	1:3:630:PRO:HB3	1.97	0.45
1:7:508:TYR:HD2	1:7:517:VAL:HG22	1.81	0.45
1:8:508:TYR:HD2	1:8:517:VAL:HG22	1.81	0.45
1:A:429:SER:HA	1:A:567:THR:HB	1.98	0.45
1:B:508:TYR:HD2	1:B:517:VAL:HG22	1.81	0.45
1:D:429:SER:HA	1:D:567:THR:HB	1.98	0.45
1:F:234:TRP:CE2	1:F:298[B]:ARG:HD3	2.51	0.45
1:G:413:TYR:OH	1:G:641:HIS:O	2.31	0.45
1:J:509:HIS:ND1	1:J:514:ASP:OD1	2.40	0.45
1:O:508:TYR:HD2	1:O:517:VAL:HG22	1.81	0.45
1:P:621:ILE:HG12	1:P:630:PRO:HB3	1.97	0.45
1:Q:304:TRP:CE2	1:Q:689:GLU:HB2	2.52	0.45
1:Q:395:LEU:HD13	1:Q:647:LEU:HD23	1.98	0.45
1:Q:508:TYR:HD2	1:Q:517:VAL:HG22	1.81	0.45
1:S:508:TYR:HD2	1:S:517:VAL:HG22	1.81	0.45
1:T:395:LEU:HD13	1:T:647:LEU:HD23	1.98	0.45
1:U:621:ILE:HG12	1:U:630:PRO:HB3	1.97	0.45
1:V:301:ASN:HB3	1:V:699:GLN:HE22	1.81	0.45
1:V:365:PHE:CE2	1:V:367:ALA:HB3	2.52	0.45
1:V:395:LEU:HD13	1:V:647:LEU:HD23	1.98	0.45
1:V:413:TYR:OH	1:V:641:HIS:O	2.31	0.45
1:W:413:TYR:OH	1:W:641:HIS:O	2.31	0.45
1:W:509:HIS:ND1	1:W:514:ASP:OD1	2.40	0.45
1:X:451:PRO:HA	1:X:456:THR:HG22	1.98	0.45
1:X:508:TYR:HD2	1:X:517:VAL:HG22	1.81	0.45
1:X:601:LEU:N	1:X:604:MET:HE2	2.23	0.45
1:Z:508:TYR:HD2	1:Z:517:VAL:HG22	1.81	0.45
1:e:304:TRP:CE2	1:e:689:GLU:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:365:PHE:CE2	1:f:367:ALA:HB3	2.52	0.45
1:g:365:PHE:CE2	1:g:367:ALA:HB3	2.52	0.45
1:i:395:LEU:HD13	1:i:647:LEU:HD23	1.98	0.45
1:o:429:SER:HA	1:o:567:THR:HB	1.99	0.45
1:o:451:PRO:HA	1:o:456:THR:HG22	1.98	0.45
1:o:601:LEU:N	1:o:604:MET:HE2	2.23	0.45
1:p:508:TYR:HD2	1:p:517:VAL:HG22	1.81	0.45
1:t:298[A]:ARG:NH1	1:t:298[A]:ARG:HG3	2.31	0.45
1:v:304:TRP:CE2	1:v:689:GLU:HB2	2.52	0.45
1:v:508:TYR:HD2	1:v:517:VAL:HG22	1.81	0.45
1:z:365:PHE:CE2	1:z:367:ALA:HB3	2.52	0.45
1:1:301:ASN:HB3	1:1:699:GLN:HE22	1.81	0.45
1:1:304:TRP:CE2	1:1:689:GLU:HB2	2.52	0.45
1:7:304:TRP:CE2	1:7:689:GLU:HB2	2.52	0.45
1:8:429:SER:HA	1:8:567:THR:HB	1.98	0.45
1:8:601:LEU:N	1:8:604:MET:HE2	2.23	0.45
1:A:304:TRP:CE2	1:A:689:GLU:HB2	2.52	0.45
1:A:508:TYR:HD2	1:A:517:VAL:HG22	1.81	0.45
1:B:429:SER:HA	1:B:567:THR:HB	1.98	0.45
1:B:470:ILE:O	1:B:475:ARG:NH2	2.47	0.45
1:B:565:ILE:HD12	1:B:565:ILE:HG23	1.75	0.45
1:D:382:ASN:HD21	1:x:529:ASP:CG	2.25	0.45
1:H:456:THR:O	1:M:497:ASN:ND2	2.35	0.45
1:L:365:PHE:CE2	1:L:367:ALA:HB3	2.52	0.45
1:N:304:TRP:CE2	1:N:689:GLU:HB2	2.52	0.45
1:N:365:PHE:CE2	1:N:367:ALA:HB3	2.52	0.45
1:N:395:LEU:HD13	1:N:647:LEU:HD23	1.98	0.45
1:P:470:ILE:O	1:P:475:ARG:NH2	2.47	0.45
1:T:285:ASN:O	1:T:617:ILE:N	2.40	0.45
1:T:583:LEU:O	1:T:588:ARG:NH1	2.44	0.45
1:U:365:PHE:CE2	1:U:367:ALA:HB3	2.52	0.45
1:V:429:SER:HA	1:V:567:THR:HB	1.99	0.45
1:W:382:ASN:HD21	1:u:529:ASP:CG	2.25	0.45
1:X:304:TRP:CE2	1:X:689:GLU:HB2	2.52	0.45
1:X:365:PHE:CE2	1:X:367:ALA:HB3	2.52	0.45
1:Y:304:TRP:CE2	1:Y:689:GLU:HB2	2.52	0.45
1:Y:527:LYS:HG2	1:Y:528:ASP:N	2.29	0.45
1:b:365:PHE:CE2	1:b:367:ALA:HB3	2.52	0.45
1:i:304:TRP:CE2	1:i:689:GLU:HB2	2.52	0.45
1:i:365:PHE:CE2	1:i:367:ALA:HB3	2.52	0.45
1:j:621:ILE:HG12	1:j:630:PRO:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:689:GLU:OE1	1:l:689:GLU:N	2.40	0.45
1:o:304:TRP:CE2	1:o:689:GLU:HB2	2.52	0.45
1:1:395:LEU:HD13	1:1:647:LEU:HD23	1.98	0.45
1:3:508:TYR:HD2	1:3:517:VAL:HG22	1.81	0.45
1:4:509:HIS:ND1	1:4:514:ASP:OD1	2.40	0.45
1:6:365:PHE:CE2	1:6:367:ALA:HB3	2.52	0.45
1:B:304:TRP:CE2	1:B:689:GLU:HB2	2.52	0.45
1:C:304:TRP:CE2	1:C:689:GLU:HB2	2.52	0.45
1:C:583:LEU:O	1:C:588:ARG:NH1	2.44	0.45
1:C:589:GLN:HA	1:Y:496:ASN:HD22	1.81	0.45
1:D:395:LEU:HD13	1:D:647:LEU:HD23	1.98	0.45
1:E:304:TRP:CE2	1:E:689:GLU:HB2	2.51	0.45
1:E:496:ASN:HD22	1:i:589:GLN:HA	1.81	0.45
1:T:365:PHE:CE2	1:T:367:ALA:HB3	2.52	0.45
1:U:304:TRP:CE2	1:U:689:GLU:HB2	2.52	0.45
1:V:508:TYR:HD2	1:V:517:VAL:HG22	1.81	0.45
1:W:365:PHE:CE2	1:W:367:ALA:HB3	2.52	0.45
1:Z:365:PHE:CE2	1:Z:367:ALA:HB3	2.52	0.45
1:Z:470:ILE:O	1:Z:475:ARG:NH2	2.47	0.45
1:a:456:THR:O	1:e:497:ASN:ND2	2.37	0.45
1:f:508:TYR:HD2	1:f:517:VAL:HG22	1.81	0.45
1:h:304:TRP:CE2	1:h:689:GLU:HB2	2.52	0.45
1:i:382:ASN:HD21	1:p:529:ASP:CG	2.25	0.45
1:l:565:ILE:HD12	1:l:565:ILE:HG23	1.75	0.45
1:l:583:LEU:O	1:l:588:ARG:NH1	2.44	0.45
1:o:365:PHE:CE2	1:o:367:ALA:HB3	2.52	0.45
1:p:365:PHE:CE2	1:p:367:ALA:HB3	2.52	0.45
1:q:234:TRP:CD2	1:q:298[B]:ARG:CD	3.00	0.45
1:s:304:TRP:CE2	1:s:689:GLU:HB2	2.52	0.45
1:s:365:PHE:CE2	1:s:367:ALA:HB3	2.52	0.45
1:t:470:ILE:O	1:t:475:ARG:NH2	2.47	0.45
1:w:365:PHE:CE2	1:w:367:ALA:HB3	2.52	0.45
1:x:429:SER:HA	1:x:567:THR:HB	1.98	0.45
1:z:395:LEU:HD13	1:z:647:LEU:HD23	1.98	0.45
1:3:395:LEU:HD13	1:3:647:LEU:HD23	1.98	0.45
1:4:234:TRP:NE1	1:4:298[A]:ARG:HH11	2.15	0.45
1:8:365:PHE:CE2	1:8:367:ALA:HB3	2.52	0.45
1:D:496:ASN:HD22	1:x:589:GLN:HA	1.82	0.45
1:F:429:SER:HA	1:F:567:THR:HB	1.98	0.45
1:L:395:LEU:HD13	1:L:647:LEU:HD23	1.98	0.45
1:M:304:TRP:CE2	1:M:689:GLU:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:496:ASN:HD22	1:V:589:GLN:HA	1.81	0.45
1:Q:429:SER:HA	1:Q:567:THR:HB	1.98	0.45
1:R:365:PHE:CE2	1:R:367:ALA:HB3	2.52	0.45
1:S:529:ASP:CG	1:q:382:ASN:HD21	2.25	0.45
1:a:395:LEU:HD13	1:a:647:LEU:HD23	1.98	0.45
1:a:508:TYR:HD2	1:a:517:VAL:HG22	1.81	0.45
1:a:601:LEU:N	1:a:604:MET:HE2	2.23	0.45
1:b:508:TYR:HD2	1:b:517:VAL:HG22	1.81	0.45
1:c:509:HIS:ND1	1:c:514:ASP:OD1	2.40	0.45
1:d:304:TRP:CE2	1:d:689:GLU:HB2	2.52	0.45
1:e:509:HIS:ND1	1:e:514:ASP:OD1	2.40	0.45
1:g:304:TRP:CE2	1:g:689:GLU:HB2	2.52	0.45
1:k:395:LEU:HD13	1:k:647:LEU:HD23	1.98	0.45
1:m:285:ASN:O	1:m:617:ILE:N	2.40	0.45
1:m:365:PHE:CE2	1:m:367:ALA:HB3	2.52	0.45
1:n:304:TRP:CE2	1:n:689:GLU:HB2	2.51	0.45
1:q:365:PHE:CE2	1:q:367:ALA:HB3	2.52	0.45
1:y:429:SER:HA	1:y:567:THR:HB	1.98	0.45
1:z:304:TRP:CE2	1:z:689:GLU:HB2	2.51	0.45
1:1:429:SER:HA	1:1:567:THR:HB	1.98	0.45
1:3:509:HIS:ND1	1:3:514:ASP:OD1	2.40	0.45
1:E:345:ASP:O	1:E:346:SER:OG	2.34	0.45
1:E:365:PHE:CE2	1:E:367:ALA:HB3	2.52	0.45
1:F:565:ILE:HD12	1:F:565:ILE:HG23	1.75	0.45
1:G:470:ILE:O	1:G:475:ARG:NH2	2.47	0.45
1:I:279:TRP:CE3	1:I:649:LYS:HB2	2.52	0.45
1:I:429:SER:HA	1:I:567:THR:HB	1.98	0.45
1:J:365:PHE:CE2	1:J:367:ALA:HB3	2.52	0.45
1:L:304:TRP:CE2	1:L:689:GLU:HB2	2.52	0.45
1:M:621:ILE:HG12	1:M:630:PRO:HB3	1.97	0.45
1:P:304:TRP:CE2	1:P:689:GLU:HB2	2.52	0.45
1:S:247:TRP:O	1:S:675:THR:OG1	2.23	0.45
1:T:404:ARG:H	1:T:407:ASN:ND2	2.15	0.45
1:W:279:TRP:CE3	1:W:649:LYS:HB2	2.52	0.45
1:b:451:PRO:HA	1:b:456:THR:HG22	1.97	0.45
1:c:279:TRP:CE3	1:c:649:LYS:HB2	2.52	0.45
1:e:279:TRP:CE3	1:e:649:LYS:HB2	2.52	0.45
1:f:429:SER:HA	1:f:567:THR:HB	1.98	0.45
1:g:234:TRP:NE1	1:g:298[A]:ARG:HD2	2.32	0.45
1:g:234:TRP:CD2	1:g:298[B]:ARG:CD	3.00	0.45
1:j:304:TRP:CE2	1:j:689:GLU:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:470:ILE:O	1:s:475:ARG:NH2	2.47	0.45
1:u:429:SER:HA	1:u:567:THR:HB	1.98	0.45
1:w:298[A]:ARG:NH1	1:w:298[A]:ARG:HG3	2.31	0.45
1:w:304:TRP:CE2	1:w:689:GLU:HB2	2.52	0.45
1:x:382:ASN:HD21	1:8:529:ASP:CG	2.24	0.45
1:y:689:GLU:OE1	1:y:689:GLU:N	2.40	0.45
1:z:601:LEU:N	1:z:604:MET:HE2	2.23	0.45
1:2:365:PHE:CE2	1:2:367:ALA:HB3	2.52	0.45
1:3:601:LEU:N	1:3:604:MET:HE2	2.23	0.45
1:5:429:SER:HA	1:5:567:THR:HB	1.98	0.45
1:6:279:TRP:CE3	1:6:649:LYS:HB2	2.52	0.45
1:7:527:LYS:HG2	1:7:528:ASP:N	2.29	0.45
1:8:470:ILE:O	1:8:475:ARG:NH2	2.47	0.45
1:A:365:PHE:CE2	1:A:367:ALA:HB3	2.52	0.45
1:B:511:ASN:ND2	1:2:566:ARG:HD3	2.32	0.45
1:F:689:GLU:OE1	1:F:689:GLU:N	2.40	0.45
1:H:304:TRP:CE2	1:H:689:GLU:HB2	2.52	0.45
1:H:404:ARG:H	1:H:407:ASN:ND2	2.15	0.45
1:H:429:SER:HA	1:H:567:THR:HB	1.98	0.45
1:K:365:PHE:CE2	1:K:367:ALA:HB3	2.52	0.45
1:O:225:SER:HG	1:O:317:ASN:H	1.60	0.45
1:Q:301:ASN:HB3	1:Q:699:GLN:HE22	1.81	0.45
1:R:509:HIS:ND1	1:R:514:ASP:OD1	2.40	0.45
1:S:496:ASN:HD22	1:z:589:GLN:HA	1.82	0.45
1:T:621:ILE:HG12	1:T:630:PRO:HB3	1.97	0.45
1:W:496:ASN:HD22	1:u:589:GLN:HA	1.82	0.45
1:Y:429:SER:HA	1:Y:567:THR:HB	1.98	0.45
1:Y:451:PRO:HA	1:Y:456:THR:HG22	1.98	0.45
1:c:365:PHE:CE2	1:c:367:ALA:HB3	2.52	0.45
1:e:365:PHE:CE2	1:e:367:ALA:HB3	2.52	0.45
1:g:279:TRP:CE3	1:g:649:LYS:HB2	2.52	0.45
1:r:279:TRP:CE3	1:r:649:LYS:HB2	2.52	0.45
1:v:365:PHE:CE2	1:v:367:ALA:HB3	2.52	0.45
1:x:301:ASN:HB3	1:x:699:GLN:HE22	1.81	0.45
1:z:413:TYR:OH	1:z:641:HIS:O	2.31	0.45
1:4:365:PHE:CE2	1:4:367:ALA:HB3	2.52	0.45
1:4:601:LEU:N	1:4:604:MET:HE2	2.23	0.45
1:C:279:TRP:CE3	1:C:649:LYS:HB2	2.52	0.44
1:D:279:TRP:CE3	1:D:649:LYS:HB2	2.52	0.44
1:F:589:GLN:HA	1:3:496:ASN:HD22	1.81	0.44
1:G:365:PHE:CE2	1:G:367:ALA:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:395:LEU:HD13	1:G:647:LEU:HD23	1.98	0.44
1:G:404:ARG:H	1:G:407:ASN:ND2	2.15	0.44
1:J:247:TRP:O	1:J:675:THR:OG1	2.23	0.44
1:J:496:ASN:HD22	1:s:589:GLN:HA	1.82	0.44
1:K:601:LEU:N	1:K:604:MET:HE2	2.23	0.44
1:M:279:TRP:CE3	1:M:649:LYS:HB2	2.52	0.44
1:O:365:PHE:CE2	1:O:367:ALA:HB3	2.52	0.44
1:O:689:GLU:OE1	1:O:689:GLU:N	2.40	0.44
1:Q:365:PHE:CE2	1:Q:367:ALA:HB3	2.52	0.44
1:S:279:TRP:CE3	1:S:649:LYS:HB2	2.52	0.44
1:U:470:ILE:O	1:U:475:ARG:NH2	2.47	0.44
1:V:496:ASN:HD22	1:w:589:GLN:HA	1.82	0.44
1:Y:279:TRP:CE3	1:Y:649:LYS:HB2	2.52	0.44
1:b:301:ASN:HB3	1:b:699:GLN:HE22	1.81	0.44
1:b:429:SER:HA	1:b:567:THR:HB	1.98	0.44
1:b:529:ASP:CG	1:v:382:ASN:HD21	2.25	0.44
1:d:429:SER:HA	1:d:567:THR:HB	1.98	0.44
1:f:451:PRO:HA	1:f:456:THR:HG22	1.98	0.44
1:g:508:TYR:HD2	1:g:517:VAL:HG22	1.81	0.44
1:h:279:TRP:CE3	1:h:649:LYS:HB2	2.52	0.44
1:k:301:ASN:HB3	1:k:699:GLN:HE22	1.81	0.44
1:m:404:ARG:H	1:m:407:ASN:ND2	2.15	0.44
1:n:404:ARG:H	1:n:407:ASN:ND2	2.15	0.44
1:q:304:TRP:CE2	1:q:689:GLU:HB2	2.51	0.44
1:q:509:HIS:ND1	1:q:514:ASP:OD1	2.40	0.44
1:r:234:TRP:CH2	1:r:298[B]:ARG:HB3	2.52	0.44
1:r:234:TRP:CE2	1:r:298[B]:ARG:HD3	2.52	0.44
1:s:279:TRP:CE3	1:s:649:LYS:HB2	2.52	0.44
1:t:365:PHE:CE2	1:t:367:ALA:HB3	2.52	0.44
1:u:279:TRP:CE3	1:u:649:LYS:HB2	2.53	0.44
1:x:365:PHE:CE2	1:x:367:ALA:HB3	2.52	0.44
1:1:234:TRP:CD2	1:1:298[B]:ARG:CD	3.00	0.44
1:2:470:ILE:O	1:2:475:ARG:NH2	2.47	0.44
1:4:404:ARG:H	1:4:407:ASN:ND2	2.15	0.44
1:5:404:ARG:H	1:5:407:ASN:ND2	2.16	0.44
1:6:301:ASN:HB3	1:6:699:GLN:HE22	1.81	0.44
1:7:279:TRP:CE3	1:7:649:LYS:HB2	2.53	0.44
1:B:509:HIS:NE2	1:2:574:GLU:OE1	2.50	0.44
1:C:508:TYR:HD2	1:C:517:VAL:HG22	1.81	0.44
1:D:301:ASN:HB3	1:D:699:GLN:HE22	1.81	0.44
1:I:365:PHE:CE2	1:I:367:ALA:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:279:TRP:CE3	1:J:649:LYS:HB2	2.52	0.44
1:K:404:ARG:H	1:K:407:ASN:ND2	2.15	0.44
1:L:413:TYR:OH	1:L:641:HIS:O	2.31	0.44
1:M:287:PHE:CE2	1:M:611:VAL:HB	2.53	0.44
1:N:413:TYR:OH	1:N:641:HIS:O	2.31	0.44
1:O:301:ASN:HB3	1:O:699:GLN:HE22	1.81	0.44
1:O:583:LEU:O	1:O:588:ARG:NH1	2.44	0.44
1:R:304:TRP:CE2	1:R:689:GLU:HB2	2.52	0.44
1:S:429:SER:HA	1:S:567:THR:HB	1.98	0.44
1:S:451:PRO:HA	1:S:456:THR:HG22	1.98	0.44
1:T:279:TRP:CE3	1:T:649:LYS:HB2	2.53	0.44
1:U:279:TRP:CE3	1:U:649:LYS:HB2	2.53	0.44
1:U:287:PHE:CE2	1:U:611:VAL:HB	2.53	0.44
1:W:301:ASN:HB3	1:W:699:GLN:HE22	1.81	0.44
1:a:509:HIS:ND1	1:a:514:ASP:OD1	2.40	0.44
1:b:279:TRP:CE3	1:b:649:LYS:HB2	2.52	0.44
1:d:279:TRP:CE3	1:d:649:LYS:HB2	2.52	0.44
1:d:395:LEU:HD13	1:d:647:LEU:HD23	1.98	0.44
1:d:404:ARG:H	1:d:407:ASN:ND2	2.16	0.44
1:f:279:TRP:CE3	1:f:649:LYS:HB2	2.52	0.44
1:f:710:VAL:HB	1:f:713:THR:HG21	2.00	0.44
1:g:287:PHE:CE2	1:g:611:VAL:HB	2.53	0.44
1:h:287:PHE:CE2	1:h:611:VAL:HB	2.53	0.44
1:h:413:TYR:OH	1:h:641:HIS:O	2.31	0.44
1:h:621:ILE:HG12	1:h:630:PRO:HB3	1.97	0.44
1:j:510:LEU:HD12	1:4:479:PRO:HG3	2.00	0.44
1:k:279:TRP:CE3	1:k:649:LYS:HB2	2.52	0.44
1:l:225:SER:HG	1:l:317:ASN:H	1.59	0.44
1:n:429:SER:HA	1:n:567:THR:HB	1.98	0.44
1:r:451:PRO:HA	1:r:456:THR:HG22	1.98	0.44
1:t:404:ARG:H	1:t:407:ASN:ND2	2.15	0.44
1:y:710:VAL:HB	1:y:713:THR:HG21	2.00	0.44
1:7:429:SER:HA	1:7:567:THR:HB	1.98	0.44
1:7:451:PRO:HA	1:7:456:THR:HG22	1.98	0.44
1:C:287:PHE:CE2	1:C:611:VAL:HB	2.53	0.44
1:C:565:ILE:HD12	1:C:565:ILE:HG23	1.75	0.44
1:D:497:ASN:ND2	1:x:456:THR:O	2.37	0.44
1:F:710:VAL:HB	1:F:713:THR:HG21	2.00	0.44
1:J:470:ILE:O	1:J:475:ARG:NH2	2.47	0.44
1:K:403:LEU:HD11	1:K:409:PHE:HB2	2.00	0.44
1:K:565:ILE:HD12	1:K:565:ILE:HG23	1.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:601:LEU:N	1:L:604:MET:HE2	2.23	0.44
1:M:628:PHE:O	1:M:629[B]:HIS:HB2	2.16	0.44
1:Q:589:GLN:HA	1:k:496:ASN:HD22	1.83	0.44
1:U:710:VAL:HB	1:U:713:THR:HG21	2.00	0.44
1:V:382:ASN:HD21	1:w:529:ASP:CG	2.25	0.44
1:W:529:ASP:CG	1:l:382:ASN:HD21	2.26	0.44
1:W:710:VAL:HB	1:W:713:THR:HG21	2.00	0.44
1:Y:287:PHE:CE2	1:Y:611:VAL:HB	2.53	0.44
1:b:710:VAL:HB	1:b:713:THR:HG21	2.00	0.44
1:i:413:TYR:OH	1:i:641:HIS:O	2.31	0.44
1:j:429:SER:HA	1:j:567:THR:HB	1.98	0.44
1:k:234:TRP:CE3	1:k:298[B]:ARG:NE	2.85	0.44
1:l:301:ASN:HB3	1:l:699:GLN:HE22	1.81	0.44
1:l:365:PHE:CE2	1:l:367:ALA:HB3	2.52	0.44
1:m:304:TRP:CE2	1:m:689:GLU:HB2	2.52	0.44
1:n:287:PHE:CE2	1:n:611:VAL:HB	2.53	0.44
1:n:395:LEU:HD13	1:n:647:LEU:HD23	1.98	0.44
1:o:234:TRP:CZ2	1:o:298[B]:ARG:HB3	2.53	0.44
1:p:450:THR:HG1	1:p:461:GLN:HE22	1.64	0.44
1:q:403:LEU:HD11	1:q:409:PHE:HB2	2.00	0.44
1:r:429:SER:HA	1:r:567:THR:HB	1.98	0.44
1:s:287:PHE:CE2	1:s:611:VAL:HB	2.53	0.44
1:s:710:VAL:HB	1:s:713:THR:HG21	2.00	0.44
1:t:395:LEU:HD13	1:t:647:LEU:HD23	1.98	0.44
1:u:287:PHE:CE2	1:u:611:VAL:HB	2.53	0.44
1:y:365:PHE:CE2	1:y:367:ALA:HB3	2.52	0.44
1:2:279:TRP:CE3	1:2:649:LYS:HB2	2.53	0.44
1:5:287:PHE:CE2	1:5:611:VAL:HB	2.53	0.44
1:5:304:TRP:CE2	1:5:689:GLU:HB2	2.52	0.44
1:7:365:PHE:CE2	1:7:367:ALA:HB3	2.52	0.44
1:A:422:SER:HB2	1:A:424:TYR:CE2	2.53	0.44
1:B:510:LEU:HD12	1:2:479:PRO:HG3	2.00	0.44
1:F:365:PHE:CE2	1:F:367:ALA:HB3	2.52	0.44
1:H:287:PHE:CE2	1:H:611:VAL:HB	2.53	0.44
1:I:287:PHE:CE2	1:I:611:VAL:HB	2.53	0.44
1:J:529:ASP:CG	1:1:382:ASN:HD21	2.25	0.44
1:J:710:VAL:HB	1:J:713:THR:HG21	2.00	0.44
1:O:279:TRP:CE3	1:O:649:LYS:HB2	2.52	0.44
1:O:287:PHE:CE2	1:O:611:VAL:HB	2.53	0.44
1:O:404:ARG:H	1:O:407:ASN:ND2	2.16	0.44
1:P:365:PHE:CE2	1:P:367:ALA:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:403:LEU:HD11	1:R:409:PHE:HB2	2.00	0.44
1:S:565:ILE:HD12	1:S:565:ILE:HG23	1.75	0.44
1:V:279:TRP:CE3	1:V:649:LYS:HB2	2.52	0.44
1:V:403:LEU:HD11	1:V:409:PHE:HB2	2.00	0.44
1:W:287:PHE:CE2	1:W:611:VAL:HB	2.53	0.44
1:W:601:LEU:N	1:W:604:MET:HE2	2.23	0.44
1:Y:365:PHE:CE2	1:Y:367:ALA:HB3	2.52	0.44
1:Z:304:TRP:CE2	1:Z:689:GLU:HB2	2.52	0.44
1:b:497:ASN:ND2	1:d:456:THR:O	2.37	0.44
1:c:710:VAL:HB	1:c:713:THR:HG21	2.00	0.44
1:d:287:PHE:CE2	1:d:611:VAL:HB	2.53	0.44
1:f:301:ASN:HB3	1:f:699:GLN:HE22	1.81	0.44
1:f:304:TRP:CE2	1:f:689:GLU:HB2	2.52	0.44
1:g:710:VAL:HB	1:g:713:THR:HG21	2.00	0.44
1:h:234:TRP:CZ2	1:h:298[B]:ARG:HB3	2.53	0.44
1:j:365:PHE:CE2	1:j:367:ALA:HB3	2.52	0.44
1:j:403:LEU:HD11	1:j:409:PHE:HB2	2.00	0.44
1:l:287:PHE:CE2	1:l:611:VAL:HB	2.53	0.44
1:l:395:LEU:HD13	1:l:647:LEU:HD23	1.98	0.44
1:m:279:TRP:CE3	1:m:649:LYS:HB2	2.53	0.44
1:m:621:ILE:HG12	1:m:630:PRO:HB3	1.97	0.44
1:n:279:TRP:CE3	1:n:649:LYS:HB2	2.53	0.44
1:n:422:SER:HB2	1:n:424:TYR:CE2	2.53	0.44
1:o:529:ASP:CG	1:4:382:ASN:HD21	2.24	0.44
1:p:403:LEU:HD11	1:p:409:PHE:HB2	2.00	0.44
1:p:422:SER:HB2	1:p:424:TYR:CE2	2.53	0.44
1:r:304:TRP:CE2	1:r:689:GLU:HB2	2.52	0.44
1:r:422:SER:HB2	1:r:424:TYR:CE2	2.53	0.44
1:u:365:PHE:CE2	1:u:367:ALA:HB3	2.52	0.44
1:y:565:ILE:HD12	1:y:565:ILE:HG23	1.75	0.44
1:z:508:TYR:HD2	1:z:517:VAL:HG22	1.81	0.44
1:1:565:ILE:HD12	1:1:565:ILE:HG23	1.75	0.44
1:4:403:LEU:HD11	1:4:409:PHE:HB2	2.00	0.44
1:6:287:PHE:CE2	1:6:611:VAL:HB	2.53	0.44
1:7:287:PHE:CE2	1:7:611:VAL:HB	2.53	0.44
1:A:279:TRP:CE3	1:A:649:LYS:HB2	2.52	0.44
1:A:287:PHE:CE2	1:A:611:VAL:HB	2.53	0.44
1:B:279:TRP:CE3	1:B:649:LYS:HB2	2.52	0.44
1:F:469:ASP:C	1:F:471:ARG:H	2.26	0.44
1:G:710:VAL:HB	1:G:713:THR:HG21	2.00	0.44
1:I:395:LEU:HD13	1:I:647:LEU:HD23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:589:GLN:HA	1:6:496:ASN:HD22	1.83	0.44
1:K:287:PHE:CE2	1:K:611:VAL:HB	2.53	0.44
1:L:508:TYR:HD2	1:L:517:VAL:HG22	1.81	0.44
1:N:287:PHE:CE2	1:N:611:VAL:HB	2.53	0.44
1:P:403:LEU:HD11	1:P:409:PHE:HB2	2.00	0.44
1:P:429:SER:HA	1:P:567:THR:HB	1.98	0.44
1:Q:710:VAL:HB	1:Q:713:THR:HG21	2.00	0.44
1:S:382:ASN:HD21	1:z:529:ASP:CG	2.25	0.44
1:S:422:SER:HB2	1:S:424:TYR:CE2	2.53	0.44
1:T:304:TRP:CE2	1:T:689:GLU:HB2	2.52	0.44
1:V:422:SER:HB2	1:V:424:TYR:CE2	2.53	0.44
1:Z:279:TRP:CE3	1:Z:649:LYS:HB2	2.52	0.44
1:b:304:TRP:CE2	1:b:689:GLU:HB2	2.52	0.44
1:b:382:ASN:HD21	1:d:529:ASP:CG	2.25	0.44
1:c:422:SER:HB2	1:c:424:TYR:CE2	2.53	0.44
1:d:422:SER:HB2	1:d:424:TYR:CE2	2.53	0.44
1:e:710:VAL:HB	1:e:713:THR:HG21	2.00	0.44
1:g:529:ASP:CG	1:7:382:ASN:HD21	2.25	0.44
1:k:304:TRP:CE2	1:k:689:GLU:HB2	2.52	0.44
1:k:583:LEU:O	1:k:588:ARG:NH1	2.44	0.44
1:l:279:TRP:CE3	1:l:649:LYS:HB2	2.52	0.44
1:l:404:ARG:H	1:l:407:ASN:ND2	2.15	0.44
1:q:404:ARG:H	1:q:407:ASN:ND2	2.16	0.44
1:u:395:LEU:HD13	1:u:647:LEU:HD23	1.98	0.44
1:v:422:SER:HB2	1:v:424:TYR:CE2	2.53	0.44
1:w:287:PHE:CE2	1:w:611:VAL:HB	2.53	0.44
1:x:710:VAL:HB	1:x:713:THR:HG21	2.00	0.44
1:y:469:ASP:C	1:y:471:ARG:H	2.26	0.44
1:2:234:TRP:CE2	1:2:298[B]:ARG:HD3	2.52	0.44
1:2:247:TRP:O	1:2:675:THR:OG1	2.23	0.44
1:2:710:VAL:HB	1:2:713:THR:HG21	2.00	0.44
1:3:229[A]:HIS:HE1	1:3:314:LYS:NZ	2.16	0.44
1:4:287:PHE:CE2	1:4:611:VAL:HB	2.53	0.44
1:4:565:ILE:HD12	1:4:565:ILE:HG23	1.75	0.44
1:6:422:SER:HB2	1:6:424:TYR:CE2	2.53	0.44
1:6:601:LEU:N	1:6:604:MET:HE2	2.23	0.44
1:6:710:VAL:HB	1:6:713:THR:HG21	2.00	0.44
1:B:403:LEU:HD11	1:B:409:PHE:HB2	2.00	0.44
1:B:422:SER:HB2	1:B:424:TYR:CE2	2.53	0.44
1:D:422:SER:HB2	1:D:424:TYR:CE2	2.53	0.44
1:D:583:LEU:O	1:D:588:ARG:NH1	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:287:PHE:CE2	1:E:611:VAL:HB	2.53	0.44
1:I:469:ASP:C	1:I:471:ARG:H	2.26	0.44
1:J:287:PHE:CE2	1:J:611:VAL:HB	2.53	0.44
1:K:429:SER:HA	1:K:567:THR:HB	1.98	0.44
1:L:287:PHE:CE2	1:L:611:VAL:HB	2.53	0.44
1:L:422:SER:HB2	1:L:424:TYR:CE2	2.53	0.44
1:L:589:GLN:HA	1:r:496:ASN:HD22	1.82	0.44
1:M:413:TYR:OH	1:M:641:HIS:O	2.31	0.44
1:N:279:TRP:CE3	1:N:649:LYS:HB2	2.52	0.44
1:O:496:ASN:HD22	1:6:589:GLN:HA	1.82	0.44
1:P:287:PHE:CE2	1:P:611:VAL:HB	2.53	0.44
1:S:304:TRP:CE2	1:S:689:GLU:HB2	2.52	0.44
1:S:365:PHE:CE2	1:S:367:ALA:HB3	2.52	0.44
1:S:469:ASP:C	1:S:471:ARG:H	2.26	0.44
1:X:403:LEU:HD11	1:X:409:PHE:HB2	2.00	0.44
1:Y:403:LEU:HD11	1:Y:409:PHE:HB2	2.00	0.44
1:a:279:TRP:CE3	1:a:649:LYS:HB2	2.52	0.44
1:a:510:LEU:HD12	1:y:479:PRO:HG3	2.00	0.44
1:b:287:PHE:CE2	1:b:611:VAL:HB	2.53	0.44
1:b:404:ARG:H	1:b:407:ASN:ND2	2.16	0.44
1:h:508:TYR:HD2	1:h:517:VAL:HG22	1.81	0.44
1:h:510:LEU:HD12	1:5:479:PRO:HG3	2.00	0.44
1:i:287:PHE:CE2	1:i:611:VAL:HB	2.53	0.44
1:k:422:SER:HB2	1:k:424:TYR:CE2	2.53	0.44
1:m:287:PHE:CE2	1:m:611:VAL:HB	2.53	0.44
1:n:229[A]:HIS:HE1	1:n:314:LYS:NZ	2.16	0.44
1:o:403:LEU:HD11	1:o:409:PHE:HB2	2.00	0.44
1:p:234:TRP:NE1	1:p:298[A]:ARG:HD2	2.32	0.44
1:p:279:TRP:CE3	1:p:649:LYS:HB2	2.52	0.44
1:p:583:LEU:O	1:p:588:ARG:NH1	2.44	0.44
1:q:422:SER:HB2	1:q:424:TYR:CE2	2.53	0.44
1:r:298[A]:ARG:HG3	1:r:298[A]:ARG:NH1	2.33	0.44
1:r:469:ASP:C	1:r:471:ARG:H	2.26	0.44
1:t:279:TRP:CE3	1:t:649:LYS:HB2	2.52	0.44
1:t:422:SER:HB2	1:t:424:TYR:CE2	2.53	0.44
1:v:279:TRP:CE3	1:v:649:LYS:HB2	2.52	0.44
1:v:287:PHE:CE2	1:v:611:VAL:HB	2.53	0.44
1:w:422:SER:HB2	1:w:424:TYR:CE2	2.53	0.44
1:y:287:PHE:CE2	1:y:611:VAL:HB	2.53	0.44
1:z:287:PHE:CE2	1:z:611:VAL:HB	2.53	0.44
1:z:422:SER:HB2	1:z:424:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:279:TRP:CE3	1:3:649:LYS:HB2	2.52	0.44
1:3:413:TYR:OH	1:3:641:HIS:O	2.31	0.44
1:4:429:SER:HA	1:4:567:THR:HB	1.98	0.44
1:4:469:ASP:C	1:4:471:ARG:H	2.26	0.44
1:4:710:VAL:HB	1:4:713:THR:HG21	2.00	0.44
1:8:304:TRP:CE2	1:8:689:GLU:HB2	2.52	0.44
1:A:523:MET:SD	1:A:572:ALA:HA	2.58	0.44
1:C:710:VAL:HB	1:C:713:THR:HG21	2.00	0.44
1:D:304:TRP:CE2	1:D:689:GLU:HB2	2.51	0.44
1:E:422:SER:HB2	1:E:424:TYR:CE2	2.53	0.44
1:G:422:SER:HB2	1:G:424:TYR:CE2	2.53	0.44
1:K:710:VAL:HB	1:K:713:THR:HG21	2.00	0.44
1:L:279:TRP:CE3	1:L:649:LYS:HB2	2.53	0.44
1:M:508:TYR:HD2	1:M:517:VAL:HG22	1.81	0.44
1:O:395:LEU:HD13	1:O:647:LEU:HD23	1.98	0.44
1:O:469:ASP:C	1:O:471:ARG:H	2.26	0.44
1:O:470:ILE:O	1:O:475:ARG:NH2	2.47	0.44
1:O:710:VAL:HB	1:O:713:THR:HG21	2.00	0.44
1:P:279:TRP:CE3	1:P:649:LYS:HB2	2.52	0.44
1:R:422:SER:HB2	1:R:424:TYR:CE2	2.53	0.44
1:U:523:MET:SD	1:U:572:ALA:HA	2.58	0.44
1:W:422:SER:HB2	1:W:424:TYR:CE2	2.53	0.44
1:X:234:TRP:CZ2	1:X:298[B]:ARG:HB3	2.53	0.44
1:X:287:PHE:CE2	1:X:611:VAL:HB	2.53	0.44
1:X:422:SER:HB2	1:X:424:TYR:CE2	2.53	0.44
1:Y:710:VAL:HB	1:Y:713:THR:HG21	2.00	0.44
1:a:413:TYR:OH	1:a:641:HIS:O	2.31	0.44
1:b:403:LEU:HD11	1:b:409:PHE:HB2	2.00	0.44
1:d:497:ASN:ND2	1:v:456:THR:O	2.37	0.44
1:e:422:SER:HB2	1:e:424:TYR:CE2	2.53	0.44
1:f:287:PHE:CE2	1:f:611:VAL:HB	2.53	0.44
1:f:470:ILE:O	1:f:475:ARG:NH2	2.47	0.44
1:h:365:PHE:CE2	1:h:367:ALA:HB3	2.52	0.44
1:j:479:PRO:HG3	1:o:510:LEU:HD12	2.00	0.44
1:j:692:LYS:HE2	1:o:398:PHE:CD1	2.53	0.44
1:j:710:VAL:HB	1:j:713:THR:HG21	2.00	0.44
1:k:234:TRP:NE1	1:k:298[A]:ARG:NH1	2.66	0.44
1:k:365:PHE:CE2	1:k:367:ALA:HB3	2.52	0.44
1:l:469:ASP:C	1:l:471:ARG:H	2.26	0.44
1:o:287:PHE:CE2	1:o:611:VAL:HB	2.53	0.44
1:o:422:SER:HB2	1:o:424:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:469:ASP:C	1:p:471:ARG:H	2.26	0.44
1:q:469:ASP:C	1:q:471:ARG:H	2.26	0.44
1:r:365:PHE:CE2	1:r:367:ALA:HB3	2.52	0.44
1:s:523:MET:SD	1:s:572:ALA:HA	2.58	0.44
1:t:429:SER:HA	1:t:567:THR:HB	1.98	0.44
1:t:469:ASP:C	1:t:471:ARG:H	2.26	0.44
1:t:710:VAL:HB	1:t:713:THR:HG21	2.00	0.44
1:u:469:ASP:C	1:u:471:ARG:H	2.26	0.44
1:v:403:LEU:HD11	1:v:409:PHE:HB2	2.00	0.44
1:x:279:TRP:CE3	1:x:649:LYS:HB2	2.52	0.44
1:z:279:TRP:CE3	1:z:649:LYS:HB2	2.53	0.44
1:1:279:TRP:CE3	1:1:649:LYS:HB2	2.52	0.44
1:1:403:LEU:HD11	1:1:409:PHE:HB2	2.00	0.44
1:1:422:SER:HB2	1:1:424:TYR:CE2	2.53	0.44
1:2:234:TRP:CH2	1:2:298[B]:ARG:HB3	2.52	0.44
1:2:287:PHE:CE2	1:2:611:VAL:HB	2.53	0.44
1:3:710:VAL:HB	1:3:713:THR:HG21	2.00	0.44
1:5:403:LEU:HD11	1:5:409:PHE:HB2	2.00	0.44
1:6:234:TRP:CE3	1:6:298[B]:ARG:NE	2.85	0.44
1:8:279:TRP:CE3	1:8:649:LYS:HB2	2.52	0.44
1:8:523:MET:SD	1:8:572:ALA:HA	2.58	0.44
1:B:477:TRP:C	1:B:478:LEU:HD12	2.43	0.44
1:D:365:PHE:CE2	1:D:367:ALA:HB3	2.52	0.44
1:D:710:VAL:HB	1:D:713:THR:HG21	2.00	0.44
1:F:287:PHE:CE2	1:F:611:VAL:HB	2.53	0.44
1:F:477:TRP:C	1:F:478:LEU:HD12	2.43	0.44
1:G:279:TRP:CE3	1:G:649:LYS:HB2	2.52	0.44
1:G:469:ASP:C	1:G:471:ARG:H	2.26	0.44
1:G:523:MET:SD	1:G:572:ALA:HA	2.58	0.44
1:H:403:LEU:HD11	1:H:409:PHE:HB2	2.00	0.44
1:M:365:PHE:CE2	1:M:367:ALA:HB3	2.52	0.44
1:M:403:LEU:HD11	1:M:409:PHE:HB2	2.00	0.44
1:M:523:MET:SD	1:M:572:ALA:HA	2.58	0.44
1:N:403:LEU:HD11	1:N:409:PHE:HB2	2.00	0.44
1:N:529:ASP:CG	1:w:382:ASN:HD21	2.26	0.44
1:P:710:VAL:HB	1:P:713:THR:HG21	2.00	0.44
1:R:469:ASP:C	1:R:471:ARG:H	2.26	0.44
1:T:287:PHE:CE2	1:T:611:VAL:HB	2.53	0.44
1:T:403:LEU:HD11	1:T:409:PHE:HB2	2.00	0.44
1:U:589:GLN:HA	1:2:496:ASN:HD22	1.83	0.44
1:V:287:PHE:CE2	1:V:611:VAL:HB	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:469:ASP:C	1:V:471:ARG:H	2.26	0.44
1:Z:509:HIS:ND1	1:Z:514:ASP:OD1	2.40	0.44
1:a:404:ARG:H	1:a:407:ASN:ND2	2.15	0.44
1:a:422:SER:HB2	1:a:424:TYR:CE2	2.53	0.44
1:a:710:VAL:HB	1:a:713:THR:HG21	2.00	0.44
1:c:403:LEU:HD11	1:c:409:PHE:HB2	2.00	0.44
1:c:469:ASP:C	1:c:471:ARG:H	2.26	0.44
1:d:403:LEU:HD11	1:d:409:PHE:HB2	2.00	0.44
1:e:469:ASP:C	1:e:471:ARG:H	2.26	0.44
1:f:403:LEU:HD11	1:f:409:PHE:HB2	2.00	0.44
1:h:403:LEU:HD11	1:h:409:PHE:HB2	2.00	0.44
1:h:523:MET:SD	1:h:572:ALA:HA	2.58	0.44
1:i:279:TRP:CE3	1:i:649:LYS:HB2	2.53	0.44
1:j:287:PHE:CE2	1:j:611:VAL:HB	2.53	0.44
1:l:710:VAL:HB	1:l:713:THR:HG21	2.00	0.44
1:m:403:LEU:HD11	1:m:409:PHE:HB2	2.00	0.44
1:n:403:LEU:HD11	1:n:409:PHE:HB2	2.00	0.44
1:p:234:TRP:CD2	1:p:298[B]:ARG:CD	3.00	0.44
1:p:287:PHE:CE2	1:p:611:VAL:HB	2.53	0.44
1:q:477:TRP:C	1:q:478:LEU:HD12	2.43	0.44
1:v:477:TRP:C	1:v:478:LEU:HD12	2.43	0.44
1:v:523:MET:SD	1:v:572:ALA:HA	2.58	0.44
1:y:477:TRP:C	1:y:478:LEU:HD12	2.43	0.44
1:z:469:ASP:C	1:z:471:ARG:H	2.26	0.44
1:1:477:TRP:C	1:1:478:LEU:HD12	2.43	0.44
1:3:422:SER:HB2	1:3:424:TYR:CE2	2.53	0.44
1:7:403:LEU:HD11	1:7:409:PHE:HB2	2.00	0.44
1:7:710:VAL:HB	1:7:713:THR:HG21	2.00	0.44
1:A:403:LEU:HD11	1:A:409:PHE:HB2	2.00	0.44
1:A:477:TRP:C	1:A:478:LEU:HD12	2.43	0.44
1:B:523:MET:SD	1:B:572:ALA:HA	2.58	0.44
1:C:382:ASN:HD21	1:t:529:ASP:CG	2.25	0.44
1:E:279:TRP:CE3	1:E:649:LYS:HB2	2.52	0.44
1:E:523:MET:SD	1:E:572:ALA:HA	2.58	0.44
1:G:429:SER:HA	1:G:567:THR:HB	1.98	0.44
1:H:422:SER:HB2	1:H:424:TYR:CE2	2.53	0.44
1:I:403:LEU:HD11	1:I:409:PHE:HB2	2.00	0.44
1:J:382:ASN:HD21	1:s:529:ASP:CG	2.25	0.44
1:J:403:LEU:HD11	1:J:409:PHE:HB2	2.00	0.44
1:K:477:TRP:C	1:K:478:LEU:HD12	2.43	0.44
1:L:404:ARG:H	1:L:407:ASN:ND2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:469:ASP:C	1:L:471:ARG:H	2.26	0.44
1:L:470:ILE:O	1:L:475:ARG:NH2	2.47	0.44
1:O:382:ASN:HD21	1:6:529:ASP:CG	2.26	0.44
1:Q:279:TRP:CE3	1:Q:649:LYS:HB2	2.52	0.44
1:R:477:TRP:C	1:R:478:LEU:HD12	2.43	0.44
1:R:510:LEU:HD12	1:r:479:PRO:HG3	2.00	0.44
1:S:710:VAL:HB	1:S:713:THR:HG21	2.00	0.44
1:U:422:SER:HB2	1:U:424:TYR:CE2	2.53	0.44
1:X:279:TRP:CE3	1:X:649:LYS:HB2	2.52	0.44
1:Y:529:ASP:CG	1:t:382:ASN:HD21	2.26	0.44
1:Z:287:PHE:CE2	1:Z:611:VAL:HB	2.53	0.44
1:Z:523:MET:SD	1:Z:572:ALA:HA	2.58	0.44
1:b:413:TYR:OH	1:b:641:HIS:O	2.31	0.44
1:c:287:PHE:CE2	1:c:611:VAL:HB	2.53	0.44
1:e:403:LEU:HD11	1:e:409:PHE:HB2	2.00	0.44
1:f:422:SER:HB2	1:f:424:TYR:CE2	2.53	0.44
1:i:403:LEU:HD11	1:i:409:PHE:HB2	2.00	0.44
1:k:710:VAL:HB	1:k:713:THR:HG21	2.00	0.44
1:l:429:SER:HA	1:l:567:THR:HB	1.98	0.44
1:l:470:ILE:O	1:l:475:ARG:NH2	2.47	0.44
1:m:479:PRO:HG3	1:5:510:LEU:HD12	2.00	0.44
1:p:477:TRP:C	1:p:478:LEU:HD12	2.43	0.44
1:q:279:TRP:CE3	1:q:649:LYS:HB2	2.52	0.44
1:q:287:PHE:CE2	1:q:611:VAL:HB	2.53	0.44
1:r:565:ILE:HD12	1:r:565:ILE:HG23	1.75	0.44
1:s:422:SER:HB2	1:s:424:TYR:CE2	2.53	0.44
1:t:477:TRP:C	1:t:478:LEU:HD12	2.43	0.44
1:t:523:MET:SD	1:t:572:ALA:HA	2.58	0.44
1:w:279:TRP:CE3	1:w:649:LYS:HB2	2.52	0.44
1:x:477:TRP:C	1:x:478:LEU:HD12	2.43	0.44
1:z:404:ARG:H	1:z:407:ASN:ND2	2.16	0.44
1:1:413:TYR:OH	1:1:641:HIS:O	2.31	0.44
1:1:523:MET:SD	1:1:572:ALA:HA	2.58	0.44
1:2:403:LEU:HD11	1:2:409:PHE:HB2	2.00	0.44
1:3:404:ARG:H	1:3:407:ASN:ND2	2.15	0.44
1:5:422:SER:HB2	1:5:424:TYR:CE2	2.53	0.44
1:8:422:SER:HB2	1:8:424:TYR:CE2	2.53	0.44
1:8:509:HIS:ND1	1:8:514:ASP:OD1	2.40	0.44
1:C:469:ASP:C	1:C:471:ARG:H	2.26	0.43
1:C:496:ASN:HD22	1:t:589:GLN:HA	1.82	0.43
1:D:398:PHE:CD1	1:x:692:LYS:HE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:469:ASP:C	1:D:471:ARG:H	2.26	0.43
1:D:470:ILE:O	1:D:475:ARG:NH2	2.47	0.43
1:E:477:TRP:C	1:E:478:LEU:HD12	2.43	0.43
1:F:479:PRO:HG3	1:3:510:LEU:HD12	2.00	0.43
1:G:477:TRP:C	1:G:478:LEU:HD12	2.43	0.43
1:I:710:VAL:HB	1:I:713:THR:HG21	2.00	0.43
1:K:469:ASP:C	1:K:471:ARG:H	2.26	0.43
1:M:477:TRP:C	1:M:478:LEU:HD12	2.43	0.43
1:M:509:HIS:ND1	1:M:514:ASP:OD1	2.40	0.43
1:O:422:SER:HB2	1:O:424:TYR:CE2	2.53	0.43
1:O:509:HIS:ND1	1:O:514:ASP:OD1	2.40	0.43
1:Q:287:PHE:CE2	1:Q:611:VAL:HB	2.53	0.43
1:Q:477:TRP:C	1:Q:478:LEU:HD12	2.43	0.43
1:Q:523:MET:SD	1:Q:572:ALA:HA	2.58	0.43
1:R:287:PHE:CE2	1:R:611:VAL:HB	2.53	0.43
1:S:287:PHE:CE2	1:S:611:VAL:HB	2.53	0.43
1:S:477:TRP:C	1:S:478:LEU:HD12	2.43	0.43
1:T:523:MET:SD	1:T:572:ALA:HA	2.58	0.43
1:V:477:TRP:C	1:V:478:LEU:HD12	2.43	0.43
1:W:404:ARG:H	1:W:407:ASN:ND2	2.15	0.43
1:Y:523:MET:SD	1:Y:572:ALA:HA	2.58	0.43
1:Z:477:TRP:C	1:Z:478:LEU:HD12	2.43	0.43
1:b:470:ILE:O	1:b:475:ARG:NH2	2.47	0.43
1:b:479:PRO:HG3	1:v:510:LEU:HD12	2.00	0.43
1:e:287:PHE:CE2	1:e:611:VAL:HB	2.53	0.43
1:f:496:ASN:HD22	1:n:589:GLN:HA	1.82	0.43
1:g:469:ASP:C	1:g:471:ARG:H	2.26	0.43
1:j:279:TRP:CE3	1:j:649:LYS:HB2	2.52	0.43
1:j:345:ASP:O	1:j:346:SER:OG	2.35	0.43
1:m:523:MET:SD	1:m:572:ALA:HA	2.58	0.43
1:o:413:TYR:OH	1:o:641:HIS:O	2.31	0.43
1:r:287:PHE:CE2	1:r:611:VAL:HB	2.53	0.43
1:r:477:TRP:C	1:r:478:LEU:HD12	2.43	0.43
1:u:403:LEU:HD11	1:u:409:PHE:HB2	2.00	0.43
1:u:422:SER:HB2	1:u:424:TYR:CE2	2.53	0.43
1:w:523:MET:SD	1:w:572:ALA:HA	2.58	0.43
1:x:287:PHE:CE2	1:x:611:VAL:HB	2.53	0.43
1:z:470:ILE:O	1:z:475:ARG:NH2	2.47	0.43
1:z:477:TRP:C	1:z:478:LEU:HD12	2.43	0.43
1:2:298[A]:ARG:NH1	1:2:298[A]:ARG:HG3	2.33	0.43
1:4:477:TRP:C	1:4:478:LEU:HD12	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:234:TRP:CD2	1:6:298[B]:ARG:CD	3.01	0.43
1:8:234:TRP:CB	1:8:298[B]:ARG:HE	2.31	0.43
1:8:287:PHE:CE2	1:8:611:VAL:HB	2.53	0.43
1:8:477:TRP:C	1:8:478:LEU:HD12	2.43	0.43
1:B:469:ASP:C	1:B:471:ARG:H	2.26	0.43
1:F:523:MET:SD	1:F:572:ALA:HA	2.58	0.43
1:I:422:SER:HB2	1:I:424:TYR:CE2	2.53	0.43
1:L:477:TRP:C	1:L:478:LEU:HD12	2.43	0.43
1:P:422:SER:HB2	1:P:424:TYR:CE2	2.53	0.43
1:V:398:PHE:CD1	1:w:692:LYS:HE2	2.53	0.43
1:V:583:LEU:O	1:V:588:ARG:NH1	2.44	0.43
1:W:469:ASP:C	1:W:471:ARG:H	2.26	0.43
1:Y:469:ASP:C	1:Y:471:ARG:H	2.26	0.43
1:Z:422:SER:HB2	1:Z:424:TYR:CE2	2.53	0.43
1:a:589:GLN:HA	1:e:496:ASN:HD22	1.83	0.43
1:b:422:SER:HB2	1:b:424:TYR:CE2	2.53	0.43
1:b:469:ASP:C	1:b:471:ARG:H	2.26	0.43
1:b:523:MET:SD	1:b:572:ALA:HA	2.58	0.43
1:c:477:TRP:C	1:c:478:LEU:HD12	2.43	0.43
1:d:523:MET:SD	1:d:572:ALA:HA	2.58	0.43
1:d:601:LEU:N	1:d:604:MET:HE2	2.23	0.43
1:e:477:TRP:C	1:e:478:LEU:HD12	2.43	0.43
1:g:565:ILE:HG23	1:g:565:ILE:HD12	1.75	0.43
1:h:477:TRP:C	1:h:478:LEU:HD12	2.43	0.43
1:i:269:ASP:HB3	1:i:513:ARG:HB2	2.01	0.43
1:j:422:SER:HB2	1:j:424:TYR:CE2	2.53	0.43
1:l:422:SER:HB2	1:l:424:TYR:CE2	2.53	0.43
1:l:509:HIS:ND1	1:l:514:ASP:OD1	2.40	0.43
1:n:523:MET:SD	1:n:572:ALA:HA	2.58	0.43
1:o:279:TRP:CE3	1:o:649:LYS:HB2	2.52	0.43
1:q:523:MET:SD	1:q:572:ALA:HA	2.58	0.43
1:r:710:VAL:HB	1:r:713:THR:HG21	2.00	0.43
1:u:710:VAL:HB	1:u:713:THR:HG21	2.00	0.43
1:v:710:VAL:HB	1:v:713:THR:HG21	2.00	0.43
1:x:523:MET:SD	1:x:572:ALA:HA	2.58	0.43
1:y:523:MET:SD	1:y:572:ALA:HA	2.58	0.43
1:1:469:ASP:C	1:1:471:ARG:H	2.26	0.43
1:4:279:TRP:CE3	1:4:649:LYS:HB2	2.53	0.43
1:6:469:ASP:C	1:6:471:ARG:H	2.26	0.43
1:7:422:SER:HB2	1:7:424:TYR:CE2	2.53	0.43
1:7:469:ASP:C	1:7:471:ARG:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:TRP:O	1:A:675:THR:OG1	2.23	0.43
1:A:509:HIS:ND1	1:A:514:ASP:OD1	2.40	0.43
1:A:710:VAL:HB	1:A:713:THR:HG21	2.00	0.43
1:B:413:TYR:OH	1:B:641:HIS:O	2.31	0.43
1:B:584:GLN:NE2	1:U:488:VAL:HG12	2.33	0.43
1:B:710:VAL:HB	1:B:713:THR:HG21	2.00	0.43
1:C:477:TRP:C	1:C:478:LEU:HD12	2.43	0.43
1:D:523:MET:SD	1:D:572:ALA:HA	2.58	0.43
1:E:382:ASN:HD21	1:i:529:ASP:CG	2.26	0.43
1:E:565:ILE:HD12	1:E:565:ILE:HG23	1.75	0.43
1:F:269:ASP:HB3	1:F:513:ARG:HB2	2.01	0.43
1:G:382:ASN:HD21	1:7:529:ASP:CG	2.26	0.43
1:H:469:ASP:C	1:H:471:ARG:H	2.26	0.43
1:J:269:ASP:HB3	1:J:513:ARG:HB2	2.01	0.43
1:J:404:ARG:H	1:J:407:ASN:ND2	2.16	0.43
1:K:279:TRP:CE3	1:K:649:LYS:HB2	2.53	0.43
1:K:422:SER:HB2	1:K:424:TYR:CE2	2.53	0.43
1:O:429:SER:HA	1:O:567:THR:HB	1.98	0.43
1:P:469:ASP:C	1:P:471:ARG:H	2.26	0.43
1:R:279:TRP:CE3	1:R:649:LYS:HB2	2.53	0.43
1:R:523:MET:SD	1:R:572:ALA:HA	2.58	0.43
1:U:583:LEU:O	1:U:588:ARG:NH1	2.44	0.43
1:W:398:PHE:CD1	1:u:692:LYS:HE2	2.53	0.43
1:X:413:TYR:OH	1:X:641:HIS:O	2.31	0.43
1:X:523:MET:SD	1:X:572:ALA:HA	2.58	0.43
1:Y:422:SER:HB2	1:Y:424:TYR:CE2	2.53	0.43
1:Z:269:ASP:HB3	1:Z:513:ARG:HB2	2.01	0.43
1:Z:510:LEU:HD12	1:k:479:PRO:HG3	2.01	0.43
1:a:479:PRO:HG3	1:e:510:LEU:HD12	2.00	0.43
1:a:529:ASP:CG	1:e:382:ASN:HD21	2.25	0.43
1:d:710:VAL:HB	1:d:713:THR:HG21	2.00	0.43
1:f:413:TYR:OH	1:f:641:HIS:O	2.31	0.43
1:f:469:ASP:C	1:f:471:ARG:H	2.26	0.43
1:f:523:MET:SD	1:f:572:ALA:HA	2.58	0.43
1:g:229[A]:HIS:HE1	1:g:314:LYS:NZ	2.17	0.43
1:g:403:LEU:HD11	1:g:409:PHE:HB2	2.00	0.43
1:g:477:TRP:C	1:g:478:LEU:HD12	2.43	0.43
1:h:269:ASP:HB3	1:h:513:ARG:HB2	2.01	0.43
1:k:469:ASP:C	1:k:471:ARG:H	2.26	0.43
1:k:470:ILE:O	1:k:475:ARG:NH2	2.47	0.43
1:k:523:MET:SD	1:k:572:ALA:HA	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:523:MET:SD	1:p:572:ALA:HA	2.58	0.43
1:q:416:GLU:OE2	1:q:640:LYS:N	2.48	0.43
1:s:469:ASP:C	1:s:471:ARG:H	2.26	0.43
1:t:304:TRP:CE3	1:t:733:ARG:NH2	2.87	0.43
1:v:416:GLU:OE2	1:v:640:LYS:N	2.48	0.43
1:w:416:GLU:OE2	1:w:640:LYS:N	2.48	0.43
1:w:477:TRP:C	1:w:478:LEU:HD12	2.43	0.43
1:y:269:ASP:HB3	1:y:513:ARG:HB2	2.01	0.43
1:2:269:ASP:HB3	1:2:513:ARG:HB2	2.01	0.43
1:4:422:SER:HB2	1:4:424:TYR:CE2	2.53	0.43
1:5:469:ASP:C	1:5:471:ARG:H	2.26	0.43
1:7:477:TRP:C	1:7:478:LEU:HD12	2.43	0.43
1:7:523:MET:SD	1:7:572:ALA:HA	2.58	0.43
1:8:269:ASP:HB3	1:8:513:ARG:HB2	2.01	0.43
1:B:304:TRP:CE3	1:B:733:ARG:NH2	2.87	0.43
1:C:304:TRP:CE3	1:C:733:ARG:NH2	2.87	0.43
1:C:398:PHE:CE1	1:t:692:LYS:HE2	2.54	0.43
1:C:398:PHE:CD1	1:t:692:LYS:HE2	2.53	0.43
1:C:403:LEU:HD11	1:C:409:PHE:HB2	2.00	0.43
1:D:479:PRO:HG3	1:8:510:LEU:HD12	2.01	0.43
1:D:733:ARG:HG2	1:D:734:ASN:N	2.34	0.43
1:E:403:LEU:HD11	1:E:409:PHE:HB2	2.00	0.43
1:E:416:GLU:OE2	1:E:640:LYS:N	2.48	0.43
1:E:589:GLN:HA	1:p:496:ASN:HD22	1.84	0.43
1:F:601:LEU:N	1:F:604:MET:HE2	2.23	0.43
1:G:304:TRP:CE3	1:G:733:ARG:NH2	2.87	0.43
1:H:523:MET:SD	1:H:572:ALA:HA	2.58	0.43
1:I:523:MET:SD	1:I:572:ALA:HA	2.58	0.43
1:J:304:TRP:CE3	1:J:733:ARG:NH2	2.87	0.43
1:M:422:SER:HB2	1:M:424:TYR:CE2	2.53	0.43
1:M:469:ASP:C	1:M:471:ARG:H	2.26	0.43
1:N:269:ASP:HB3	1:N:513:ARG:HB2	2.01	0.43
1:N:477:TRP:C	1:N:478:LEU:HD12	2.43	0.43
1:S:479:PRO:HG3	1:q:510:LEU:HD12	2.00	0.43
1:T:269:ASP:HB3	1:T:513:ARG:HB2	2.01	0.43
1:T:304:TRP:CE3	1:T:733:ARG:NH2	2.87	0.43
1:V:304:TRP:CE3	1:V:733:ARG:NH2	2.87	0.43
1:V:452:SER:HB2	1:V:457:GLN:HG2	2.01	0.43
1:V:523:MET:SD	1:V:572:ALA:HA	2.58	0.43
1:W:304:TRP:CE3	1:W:733:ARG:NH2	2.87	0.43
1:W:477:TRP:C	1:W:478:LEU:HD12	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:628:PHE:O	1:X:629[B]:HIS:HB2	2.16	0.43
1:Z:469:ASP:C	1:Z:471:ARG:H	2.26	0.43
1:Z:496:ASN:HD22	1:k:589:GLN:HA	1.82	0.43
1:a:469:ASP:C	1:a:471:ARG:H	2.26	0.43
1:d:470:ILE:O	1:d:475:ARG:NH2	2.47	0.43
1:d:733:ARG:HG2	1:d:734:ASN:N	2.34	0.43
1:g:234:TRP:HE1	1:g:298[A]:ARG:HH11	1.62	0.43
1:g:304:TRP:CE3	1:g:733:ARG:NH2	2.87	0.43
1:h:422:SER:HB2	1:h:424:TYR:CE2	2.53	0.43
1:j:469:ASP:C	1:j:471:ARG:H	2.26	0.43
1:n:710:VAL:HB	1:n:713:THR:HG21	2.00	0.43
1:o:523:MET:SD	1:o:572:ALA:HA	2.58	0.43
1:p:304:TRP:CE3	1:p:733:ARG:NH2	2.87	0.43
1:s:601:LEU:N	1:s:604:MET:HE2	2.23	0.43
1:u:523:MET:SD	1:u:572:ALA:HA	2.58	0.43
1:1:304:TRP:CE3	1:1:733:ARG:NH2	2.87	0.43
1:1:416:GLU:OE2	1:1:640:LYS:N	2.48	0.43
1:2:601:LEU:N	1:2:604:MET:HE2	2.23	0.43
1:5:279:TRP:CE3	1:5:649:LYS:HB2	2.52	0.43
1:6:234:TRP:NE1	1:6:298[A]:ARG:NH1	2.65	0.43
1:6:304:TRP:CE3	1:6:733:ARG:NH2	2.87	0.43
1:6:404:ARG:H	1:6:407:ASN:ND2	2.16	0.43
1:6:477:TRP:C	1:6:478:LEU:HD12	2.43	0.43
1:7:269:ASP:HB3	1:7:513:ARG:HB2	2.01	0.43
1:8:413:TYR:OH	1:8:641:HIS:O	2.31	0.43
1:8:469:ASP:C	1:8:471:ARG:H	2.26	0.43
1:C:269:ASP:HB3	1:C:513:ARG:HB2	2.01	0.43
1:C:479:PRO:HG3	1:Y:510:LEU:HD12	2.01	0.43
1:F:404:ARG:H	1:F:407:ASN:ND2	2.15	0.43
1:M:269:ASP:HB3	1:M:513:ARG:HB2	2.01	0.43
1:O:733:ARG:HG2	1:O:734:ASN:N	2.34	0.43
1:P:404:ARG:H	1:P:407:ASN:ND2	2.16	0.43
1:P:523:MET:SD	1:P:572:ALA:HA	2.58	0.43
1:Q:403:LEU:HD11	1:Q:409:PHE:HB2	2.00	0.43
1:S:733:ARG:HG2	1:S:734:ASN:N	2.34	0.43
1:T:477:TRP:C	1:T:478:LEU:HD12	2.43	0.43
1:U:469:ASP:C	1:U:471:ARG:H	2.26	0.43
1:V:733:ARG:HG2	1:V:734:ASN:N	2.34	0.43
1:X:733:ARG:HG2	1:X:734:ASN:N	2.34	0.43
1:Y:234:TRP:CG	1:Y:298[B]:ARG:NE	2.81	0.43
1:Y:269:ASP:HB3	1:Y:513:ARG:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:477:TRP:C	1:Y:478:LEU:HD12	2.43	0.43
1:Z:304:TRP:CE3	1:Z:733:ARG:NH2	2.87	0.43
1:c:234:TRP:CD2	1:c:298[B]:ARG:HD3	2.53	0.43
1:d:398:PHE:CE1	1:v:692:LYS:HE2	2.54	0.43
1:d:398:PHE:CD1	1:v:692:LYS:HE2	2.53	0.43
1:d:510:LEU:HD12	1:v:479:PRO:HG3	2.00	0.43
1:f:234:TRP:CD2	1:f:298[B]:ARG:HD3	2.53	0.43
1:g:479:PRO:HG3	1:7:510:LEU:HD12	2.01	0.43
1:h:452:SER:HB2	1:h:457:GLN:HG2	2.01	0.43
1:h:469:ASP:C	1:h:471:ARG:H	2.26	0.43
1:h:509:HIS:ND1	1:h:514:ASP:OD1	2.40	0.43
1:i:477:TRP:C	1:i:478:LEU:HD12	2.43	0.43
1:k:287:PHE:CE2	1:k:611:VAL:HB	2.53	0.43
1:k:733:ARG:HG2	1:k:734:ASN:N	2.34	0.43
1:m:304:TRP:CE3	1:m:733:ARG:NH2	2.87	0.43
1:m:710:VAL:HB	1:m:713:THR:HG21	2.00	0.43
1:n:304:TRP:CE3	1:n:733:ARG:NH2	2.87	0.43
1:n:469:ASP:C	1:n:471:ARG:H	2.26	0.43
1:n:601:LEU:N	1:n:604:MET:HE2	2.23	0.43
1:n:733:ARG:HG2	1:n:734:ASN:N	2.34	0.43
1:o:452:SER:HB2	1:o:457:GLN:HG2	2.01	0.43
1:o:479:PRO:HG3	1:4:510:LEU:HD12	2.00	0.43
1:o:733:ARG:HG2	1:o:734:ASN:N	2.34	0.43
1:p:733:ARG:HG2	1:p:734:ASN:N	2.34	0.43
1:r:733:ARG:HG2	1:r:734:ASN:N	2.34	0.43
1:v:247:TRP:O	1:v:675:THR:OG1	2.23	0.43
1:w:403:LEU:HD11	1:w:409:PHE:HB2	2.00	0.43
1:x:403:LEU:HD11	1:x:409:PHE:HB2	2.00	0.43
1:x:583:LEU:O	1:x:588:ARG:NH1	2.44	0.43
1:z:403:LEU:HD11	1:z:409:PHE:HB2	2.00	0.43
1:1:710:VAL:HB	1:1:713:THR:HG21	2.00	0.43
1:2:304:TRP:CE3	1:2:733:ARG:NH2	2.87	0.43
1:2:404:ARG:H	1:2:407:ASN:ND2	2.16	0.43
1:5:523:MET:SD	1:5:572:ALA:HA	2.58	0.43
1:6:403:LEU:HD11	1:6:409:PHE:HB2	2.00	0.43
1:8:304:TRP:CE3	1:8:733:ARG:NH2	2.87	0.43
1:A:304:TRP:CE3	1:A:733:ARG:NH2	2.87	0.43
1:A:404:ARG:H	1:A:407:ASN:ND2	2.15	0.43
1:A:416:GLU:OE2	1:A:640:LYS:N	2.48	0.43
1:B:574:GLU:OE1	1:U:509:HIS:NE2	2.51	0.43
1:D:287:PHE:CE2	1:D:611:VAL:HB	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:529:ASP:CG	1:8:382:ASN:HD21	2.26	0.43
1:F:279:TRP:CE3	1:F:649:LYS:HB2	2.53	0.43
1:H:279:TRP:CE3	1:H:649:LYS:HB2	2.52	0.43
1:J:422:SER:HB2	1:J:424:TYR:CE2	2.53	0.43
1:J:469:ASP:C	1:J:471:ARG:H	2.26	0.43
1:J:479:PRO:HG3	1:1:510:LEU:HD12	2.00	0.43
1:J:523:MET:SD	1:J:572:ALA:HA	2.58	0.43
1:L:403:LEU:HD11	1:L:409:PHE:HB2	2.00	0.43
1:M:304:TRP:CE3	1:M:733:ARG:NH2	2.87	0.43
1:N:382:ASN:HD21	1:V:529:ASP:CG	2.27	0.43
1:N:422:SER:HB2	1:N:424:TYR:CE2	2.53	0.43
1:P:304:TRP:CE3	1:P:733:ARG:NH2	2.87	0.43
1:P:733:ARG:HG2	1:P:734:ASN:N	2.34	0.43
1:Q:422:SER:HB2	1:Q:424:TYR:CE2	2.53	0.43
1:Q:469:ASP:C	1:Q:471:ARG:H	2.26	0.43
1:Q:583:LEU:O	1:Q:588:ARG:NH1	2.44	0.43
1:S:398:PHE:CD1	1:z:692:LYS:HE2	2.54	0.43
1:T:710:VAL:HB	1:T:713:THR:HG21	2.00	0.43
1:U:403:LEU:HD11	1:U:409:PHE:HB2	2.00	0.43
1:U:601:LEU:N	1:U:604:MET:HE2	2.23	0.43
1:V:565:ILE:HD12	1:V:565:ILE:HG23	1.75	0.43
1:W:733:ARG:HG2	1:W:734:ASN:N	2.34	0.43
1:X:452:SER:HB2	1:X:457:GLN:HG2	2.01	0.43
1:Y:452:SER:HB2	1:Y:457:GLN:HG2	2.01	0.43
1:a:733:ARG:HG2	1:a:734:ASN:N	2.34	0.43
1:b:234:TRP:NE1	1:b:298[A]:ARG:HD2	2.33	0.43
1:c:324:THR:HG22	1:c:326:ASN:H	1.84	0.43
1:d:304:TRP:CE3	1:d:733:ARG:NH2	2.87	0.43
1:e:324:THR:HG22	1:e:326:ASN:H	1.84	0.43
1:g:229[A]:HIS:CE1	1:g:314:LYS:NZ	2.87	0.43
1:g:269:ASP:HB3	1:g:513:ARG:HB2	2.01	0.43
1:h:304:TRP:CE3	1:h:733:ARG:NH2	2.87	0.43
1:j:304:TRP:CE3	1:j:733:ARG:NH2	2.87	0.43
1:j:404:ARG:H	1:j:407:ASN:ND2	2.16	0.43
1:j:523:MET:SD	1:j:572:ALA:HA	2.58	0.43
1:m:469:ASP:C	1:m:471:ARG:H	2.26	0.43
1:m:477:TRP:C	1:m:478:LEU:HD12	2.43	0.43
1:q:479:PRO:HG3	1:z:510:LEU:HD12	2.00	0.43
1:s:398:PHE:CD1	1:1:692:LYS:HE2	2.54	0.43
1:s:583:LEU:O	1:s:588:ARG:NH1	2.44	0.43
1:v:304:TRP:CE3	1:v:733:ARG:NH2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:509:HIS:ND1	1:v:514:ASP:OD1	2.40	0.43
1:x:469:ASP:C	1:x:471:ARG:H	2.26	0.43
1:y:404:ARG:H	1:y:407:ASN:ND2	2.15	0.43
1:1:601:LEU:N	1:1:604:MET:HE2	2.23	0.43
1:2:422:SER:HB2	1:2:424:TYR:CE2	2.53	0.43
1:2:523:MET:SD	1:2:572:ALA:HA	2.58	0.43
1:2:733:ARG:HG2	1:2:734:ASN:N	2.34	0.43
1:3:469:ASP:C	1:3:471:ARG:H	2.26	0.43
1:3:733:ARG:HG2	1:3:734:ASN:N	2.34	0.43
1:6:733:ARG:HG2	1:6:734:ASN:N	2.34	0.43
1:7:452:SER:HB2	1:7:457:GLN:HG2	2.01	0.43
1:A:269:ASP:HB3	1:A:513:ARG:HB2	2.01	0.43
1:A:733:ARG:HG2	1:A:734:ASN:N	2.34	0.43
1:B:287:PHE:CE2	1:B:611:VAL:HB	2.53	0.43
1:B:416:GLU:OE2	1:B:640:LYS:N	2.48	0.43
1:D:452:SER:HB2	1:D:457:GLN:HG2	2.01	0.43
1:J:733:ARG:HG2	1:J:734:ASN:N	2.34	0.43
1:L:509:HIS:NE2	1:R:574:GLU:OE1	2.52	0.43
1:M:324:THR:HG22	1:M:326:ASN:H	1.84	0.43
1:M:452:SER:HB2	1:M:457:GLN:HG2	2.01	0.43
1:M:733:ARG:HG2	1:M:734:ASN:N	2.34	0.43
1:Q:324:THR:HG22	1:Q:326:ASN:H	1.84	0.43
1:R:416:GLU:OE2	1:R:640:LYS:N	2.48	0.43
1:R:511:ASN:ND2	1:r:566:ARG:HD3	2.34	0.43
1:R:733:ARG:HG2	1:R:734:ASN:N	2.34	0.43
1:S:269:ASP:HB3	1:S:513:ARG:HB2	2.01	0.43
1:S:523:MET:SD	1:S:572:ALA:HA	2.58	0.43
1:U:477:TRP:C	1:U:478:LEU:HD12	2.43	0.43
1:U:733:ARG:HG2	1:U:734:ASN:N	2.34	0.43
1:W:269:ASP:HB3	1:W:513:ARG:HB2	2.01	0.43
1:W:479:PRO:HG3	1:l:510:LEU:HD12	2.01	0.43
1:X:304:TRP:CE3	1:X:733:ARG:NH2	2.87	0.43
1:a:304:TRP:CE3	1:a:733:ARG:NH2	2.87	0.43
1:b:269:ASP:HB3	1:b:513:ARG:HB2	2.01	0.43
1:b:510:LEU:HD12	1:d:479:PRO:HG3	2.00	0.43
1:b:565:ILE:HG23	1:b:565:ILE:HD12	1.75	0.43
1:c:510:LEU:HD12	1:3:479:PRO:HG3	2.00	0.43
1:d:452:SER:HB2	1:d:457:GLN:HG2	2.01	0.43
1:e:404:ARG:H	1:e:407:ASN:ND2	2.16	0.43
1:f:269:ASP:HB3	1:f:513:ARG:HB2	2.01	0.43
1:g:733:ARG:HG2	1:g:734:ASN:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:692:LYS:HE2	1:m:398:PHE:CD1	2.54	0.43
1:i:422:SER:HB2	1:i:424:TYR:CE2	2.53	0.43
1:j:733:ARG:HG2	1:j:734:ASN:N	2.34	0.43
1:k:416:GLU:OE2	1:k:640:LYS:N	2.48	0.43
1:l:523:MET:SD	1:l:572:ALA:HA	2.58	0.43
1:l:733:ARG:HG2	1:l:734:ASN:N	2.34	0.43
1:m:269:ASP:HB3	1:m:513:ARG:HB2	2.01	0.43
1:m:422:SER:HB2	1:m:424:TYR:CE2	2.53	0.43
1:n:324:THR:HG22	1:n:326:ASN:H	1.84	0.43
1:n:452:SER:HB2	1:n:457:GLN:HG2	2.01	0.43
1:n:470:ILE:O	1:n:475:ARG:NH2	2.47	0.43
1:p:452:SER:HB2	1:p:457:GLN:HG2	2.01	0.43
1:q:733:ARG:HG2	1:q:734:ASN:N	2.34	0.43
1:r:269:ASP:HB3	1:r:513:ARG:HB2	2.01	0.43
1:s:304:TRP:CE3	1:s:733:ARG:NH2	2.87	0.43
1:s:733:ARG:HG2	1:s:734:ASN:N	2.34	0.43
1:v:269:ASP:HB3	1:v:513:ARG:HB2	2.01	0.43
1:v:404:ARG:H	1:v:407:ASN:ND2	2.15	0.43
1:w:304:TRP:CE3	1:w:733:ARG:NH2	2.87	0.43
1:x:324:THR:HG22	1:x:326:ASN:H	1.84	0.43
1:y:279:TRP:CE3	1:y:649:LYS:HB2	2.52	0.43
1:y:601:LEU:N	1:y:604:MET:HE2	2.23	0.43
1:1:269:ASP:HB3	1:1:513:ARG:HB2	2.01	0.43
1:1:287:PHE:CE2	1:1:611:VAL:HB	2.53	0.43
1:2:469:ASP:C	1:2:471:ARG:H	2.26	0.43
1:3:229[B]:HIS:HD2	1:3:242:THR:HG21	1.79	0.43
1:3:304:TRP:CE3	1:3:733:ARG:NH2	2.87	0.43
1:6:269:ASP:HB3	1:6:513:ARG:HB2	2.01	0.43
1:B:452:SER:HB2	1:B:457:GLN:HG2	2.01	0.43
1:B:601:LEU:N	1:B:604:MET:HE2	2.23	0.43
1:C:733:ARG:HG2	1:C:734:ASN:N	2.34	0.43
1:D:304:TRP:CE3	1:D:733:ARG:NH2	2.87	0.43
1:E:304:TRP:CE3	1:E:733:ARG:NH2	2.87	0.43
1:H:477:TRP:C	1:H:478:LEU:HD12	2.43	0.43
1:H:509:HIS:NE2	1:T:574:GLU:OE1	2.52	0.43
1:J:601:LEU:N	1:J:604:MET:HE2	2.23	0.43
1:N:469:ASP:C	1:N:471:ARG:H	2.26	0.43
1:N:523:MET:SD	1:N:572:ALA:HA	2.58	0.43
1:O:452:SER:HB2	1:O:457:GLN:HG2	2.01	0.43
1:Q:452:SER:HB2	1:Q:457:GLN:HG2	2.01	0.43
1:U:304:TRP:CE3	1:U:733:ARG:NH2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:324:THR:HG22	1:U:326:ASN:H	1.84	0.43
1:W:398:PHE:CE1	1:u:692:LYS:HE2	2.54	0.43
1:W:403:LEU:HD11	1:W:409:PHE:HB2	2.00	0.43
1:X:477:TRP:C	1:X:478:LEU:HD12	2.43	0.43
1:Z:403:LEU:HD11	1:Z:409:PHE:HB2	2.00	0.43
1:Z:710:VAL:HB	1:Z:713:THR:HG21	2.00	0.43
1:a:398:PHE:CE1	1:y:692:LYS:HE2	2.54	0.43
1:b:452:SER:HB2	1:b:457:GLN:HG2	2.01	0.43
1:c:404:ARG:H	1:c:407:ASN:ND2	2.16	0.43
1:d:324:THR:HG22	1:d:326:ASN:H	1.84	0.43
1:d:469:ASP:C	1:d:471:ARG:H	2.26	0.43
1:f:452:SER:HB2	1:f:457:GLN:HG2	2.01	0.43
1:g:422:SER:HB2	1:g:424:TYR:CE2	2.53	0.43
1:h:324:THR:HG22	1:h:326:ASN:H	1.84	0.43
1:h:398:PHE:CD1	1:5:692:LYS:HE2	2.53	0.43
1:h:733:ARG:HG2	1:h:734:ASN:N	2.34	0.43
1:j:477:TRP:C	1:j:478:LEU:HD12	2.43	0.43
1:k:509:HIS:ND1	1:k:514:ASP:OD1	2.40	0.43
1:l:234:TRP:CZ3	1:l:298[B]:ARG:HG2	2.54	0.43
1:l:234:TRP:CB	1:l:298[B]:ARG:HE	2.31	0.43
1:o:304:TRP:CE3	1:o:733:ARG:NH2	2.87	0.43
1:o:565:ILE:HG23	1:o:565:ILE:HD12	1.75	0.43
1:o:710:VAL:HB	1:o:713:THR:HG21	2.00	0.43
1:p:229[A]:HIS:HE1	1:p:314:LYS:NZ	2.17	0.43
1:r:523:MET:SD	1:r:572:ALA:HA	2.58	0.43
1:s:477:TRP:C	1:s:478:LEU:HD12	2.43	0.43
1:t:287:PHE:CE2	1:t:611:VAL:HB	2.53	0.43
1:v:733:ARG:HG2	1:v:734:ASN:N	2.34	0.43
1:x:422:SER:HB2	1:x:424:TYR:CE2	2.53	0.43
1:x:733:ARG:HG2	1:x:734:ASN:N	2.34	0.43
1:1:452:SER:HB2	1:1:457:GLN:HG2	2.01	0.43
1:3:477:TRP:C	1:3:478:LEU:HD12	2.43	0.43
1:5:477:TRP:C	1:5:478:LEU:HD12	2.43	0.43
1:7:304:TRP:CE3	1:7:733:ARG:NH2	2.87	0.43
1:7:345:ASP:O	1:7:346:SER:OG	2.34	0.43
1:8:225:SER:HG	1:8:317:ASN:H	1.66	0.43
1:C:288:HIS:ND1	1:C:364:PRO:HB3	2.34	0.43
1:E:269:ASP:HB3	1:E:513:ARG:HB2	2.01	0.43
1:E:324:THR:HG22	1:E:326:ASN:H	1.84	0.43
1:E:469:ASP:C	1:E:471:ARG:H	2.26	0.43
1:F:304:TRP:CE3	1:F:733:ARG:NH2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:287:PHE:CE2	1:G:611:VAL:HB	2.53	0.43
1:H:324:THR:HG22	1:H:326:ASN:H	1.84	0.43
1:J:398:PHE:CD1	1:s:692:LYS:HE2	2.53	0.43
1:J:510:LEU:HD12	1:s:479:PRO:HG3	2.00	0.43
1:K:288:HIS:ND1	1:K:364:PRO:HB3	2.34	0.43
1:Q:269:ASP:HB3	1:Q:513:ARG:HB2	2.01	0.43
1:Q:565:ILE:HD12	1:Q:565:ILE:HG23	1.75	0.43
1:Q:733:ARG:HG2	1:Q:734:ASN:N	2.34	0.43
1:S:452:SER:HB2	1:S:457:GLN:HG2	2.01	0.43
1:T:422:SER:HB2	1:T:424:TYR:CE2	2.53	0.43
1:T:469:ASP:C	1:T:471:ARG:H	2.26	0.43
1:X:404:ARG:H	1:X:407:ASN:ND2	2.15	0.43
1:X:469:ASP:C	1:X:471:ARG:H	2.26	0.43
1:X:710:VAL:HB	1:X:713:THR:HG21	2.00	0.43
1:Y:304:TRP:CE3	1:Y:733:ARG:NH2	2.87	0.43
1:Z:413:TYR:OH	1:Z:641:HIS:O	2.31	0.43
1:a:477:TRP:C	1:a:478:LEU:HD12	2.43	0.43
1:b:477:TRP:C	1:b:478:LEU:HD12	2.43	0.43
1:d:496:ASN:HD22	1:v:589:GLN:HA	1.84	0.43
1:e:479:PRO:HG3	1:y:510:LEU:HD12	2.00	0.43
1:f:477:TRP:C	1:f:478:LEU:HD12	2.43	0.43
1:g:288:HIS:ND1	1:g:364:PRO:HB3	2.34	0.43
1:h:479:PRO:HG3	1:m:510:LEU:HD12	2.00	0.43
1:i:469:ASP:C	1:i:471:ARG:H	2.26	0.43
1:i:523:MET:SD	1:i:572:ALA:HA	2.58	0.43
1:k:304:TRP:CE3	1:k:733:ARG:NH2	2.87	0.43
1:k:452:SER:HB2	1:k:457:GLN:HG2	2.01	0.43
1:k:477:TRP:C	1:k:478:LEU:HD12	2.43	0.43
1:l:269:ASP:HB3	1:l:513:ARG:HB2	2.01	0.43
1:l:403:LEU:HD11	1:l:409:PHE:HB2	2.00	0.43
1:l:452:SER:HB2	1:l:457:GLN:HG2	2.01	0.43
1:m:452:SER:HB2	1:m:457:GLN:HG2	2.01	0.43
1:s:403:LEU:HD11	1:s:409:PHE:HB2	2.00	0.43
1:s:452:SER:HB2	1:s:457:GLN:HG2	2.01	0.43
1:v:324:THR:HG22	1:v:326:ASN:H	1.84	0.43
1:w:710:VAL:HB	1:w:713:THR:HG21	2.00	0.43
1:x:452:SER:HB2	1:x:457:GLN:HG2	2.01	0.43
1:x:510:LEU:HD12	1:8:479:PRO:HG3	2.01	0.43
1:y:304:TRP:CE3	1:y:733:ARG:NH2	2.87	0.43
1:y:452:SER:HB2	1:y:457:GLN:HG2	2.01	0.43
1:z:523:MET:SD	1:z:572:ALA:HA	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:288:HIS:ND1	1:4:364:PRO:HB3	2.34	0.43
1:5:324:THR:HG22	1:5:326:ASN:H	1.84	0.43
1:5:710:VAL:HB	1:5:713:THR:HG21	2.00	0.43
1:B:269:ASP:HB3	1:B:513:ARG:HB2	2.01	0.43
1:C:422:SER:HB2	1:C:424:TYR:CE2	2.53	0.43
1:D:416:GLU:OE2	1:D:640:LYS:N	2.48	0.43
1:D:477:TRP:C	1:D:478:LEU:HD12	2.43	0.43
1:E:710:VAL:HB	1:E:713:THR:HG21	2.00	0.43
1:F:422:SER:HB2	1:F:424:TYR:CE2	2.53	0.43
1:F:452:SER:HB2	1:F:457:GLN:HG2	2.01	0.43
1:G:288:HIS:ND1	1:G:364:PRO:HB3	2.34	0.43
1:H:710:VAL:HB	1:H:713:THR:HG21	2.00	0.43
1:K:523:MET:SD	1:K:572:ALA:HA	2.58	0.43
1:L:523:MET:SD	1:L:572:ALA:HA	2.58	0.43
1:M:288:HIS:ND1	1:M:364:PRO:HB3	2.34	0.43
1:O:269:ASP:HB3	1:O:513:ARG:HB2	2.01	0.43
1:O:510:LEU:HD12	1:6:479:PRO:HG3	2.01	0.43
1:O:523:MET:SD	1:O:572:ALA:HA	2.58	0.43
1:P:452:SER:HB2	1:P:457:GLN:HG2	2.01	0.43
1:P:477:TRP:C	1:P:478:LEU:HD12	2.43	0.43
1:Q:288:HIS:ND1	1:Q:364:PRO:HB3	2.34	0.43
1:R:223:ASN:N	1:T:404:ARG:HD2	2.34	0.43
1:R:304:TRP:CE3	1:R:733:ARG:NH2	2.87	0.43
1:S:510:LEU:HD12	1:z:479:PRO:HG3	2.00	0.43
1:T:628:PHE:CZ	1:T:629[B]:HIS:CD2	3.06	0.43
1:U:452:SER:HB2	1:U:457:GLN:HG2	2.01	0.43
1:V:324:THR:HG22	1:V:326:ASN:H	1.84	0.43
1:V:398:PHE:CE1	1:w:692:LYS:HE2	2.54	0.43
1:W:523:MET:SD	1:W:572:ALA:HA	2.58	0.43
1:W:589:GLN:HA	1:l:496:ASN:HD22	1.83	0.43
1:a:287:PHE:CE2	1:a:611:VAL:HB	2.53	0.43
1:c:601:LEU:N	1:c:604:MET:HE2	2.23	0.43
1:h:288:HIS:ND1	1:h:364:PRO:HB3	2.34	0.43
1:h:710:VAL:HB	1:h:713:THR:HG21	2.00	0.43
1:i:710:VAL:HB	1:i:713:THR:HG21	2.00	0.43
1:i:733:ARG:HG2	1:i:734:ASN:N	2.34	0.43
1:o:404:ARG:H	1:o:407:ASN:ND2	2.15	0.43
1:o:469:ASP:C	1:o:471:ARG:H	2.26	0.43
1:p:229[A]:HIS:CE1	1:p:314:LYS:NZ	2.87	0.43
1:p:324:THR:HG22	1:p:326:ASN:H	1.84	0.43
1:q:304:TRP:CE3	1:q:733:ARG:NH2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:452:SER:HB2	1:r:457:GLN:HG2	2.01	0.43
1:s:269:ASP:HB3	1:s:513:ARG:HB2	2.01	0.43
1:s:496:ASN:HD22	1:1:589:GLN:HA	1.84	0.43
1:w:269:ASP:HB3	1:w:513:ARG:HB2	2.01	0.43
1:w:469:ASP:C	1:w:471:ARG:H	2.26	0.43
1:w:565:ILE:HD12	1:w:565:ILE:HG23	1.75	0.43
1:x:288:HIS:ND1	1:x:364:PRO:HB3	2.34	0.43
1:y:422:SER:HB2	1:y:424:TYR:CE2	2.53	0.43
1:3:287:PHE:CE2	1:3:611:VAL:HB	2.53	0.43
1:4:324:THR:HG22	1:4:326:ASN:H	1.84	0.43
1:6:234:TRP:NE1	1:6:298[A]:ARG:HH11	2.17	0.43
1:8:403:LEU:HD11	1:8:409:PHE:HB2	2.00	0.43
1:8:710:VAL:HB	1:8:713:THR:HG21	2.00	0.43
1:A:324:THR:HG22	1:A:326:ASN:H	1.84	0.42
1:A:479:PRO:HG3	1:n:510:LEU:HD12	2.01	0.42
1:A:511:ASN:ND2	1:f:566:ARG:HD3	2.34	0.42
1:B:496:ASN:ND2	1:2:589:GLN:HA	2.34	0.42
1:C:324:THR:HG22	1:C:326:ASN:H	1.84	0.42
1:C:510:LEU:HD12	1:t:479:PRO:HG3	2.01	0.42
1:D:565:ILE:HD12	1:D:565:ILE:HG23	1.75	0.42
1:F:288:HIS:ND1	1:F:364:PRO:HB3	2.34	0.42
1:G:398:PHE:CD1	1:7:692:LYS:HE2	2.54	0.42
1:G:733:ARG:HG2	1:G:734:ASN:N	2.34	0.42
1:K:269:ASP:HB3	1:K:513:ARG:HB2	2.01	0.42
1:K:324:THR:HG22	1:K:326:ASN:H	1.84	0.42
1:K:574:GLU:OE1	1:P:509:HIS:NE2	2.52	0.42
1:K:628:PHE:CZ	1:K:629[B]:HIS:CD2	3.07	0.42
1:L:710:VAL:HB	1:L:713:THR:HG21	2.00	0.42
1:M:710:VAL:HB	1:M:713:THR:HG21	2.00	0.42
1:N:710:VAL:HB	1:N:713:THR:HG21	2.00	0.42
1:N:733:ARG:HG2	1:N:734:ASN:N	2.34	0.42
1:O:403:LEU:HD11	1:O:409:PHE:HB2	2.00	0.42
1:Q:304:TRP:CE3	1:Q:733:ARG:NH2	2.87	0.42
1:T:452:SER:HB2	1:T:457:GLN:HG2	2.01	0.42
1:U:269:ASP:HB3	1:U:513:ARG:HB2	2.01	0.42
1:W:324:THR:HG22	1:W:326:ASN:H	1.84	0.42
1:Y:733:ARG:HG2	1:Y:734:ASN:N	2.34	0.42
1:Z:404:ARG:H	1:Z:407:ASN:ND2	2.15	0.42
1:a:288:HIS:ND1	1:a:364:PRO:HB3	2.34	0.42
1:f:733:ARG:HG2	1:f:734:ASN:N	2.34	0.42
1:g:523:MET:SD	1:g:572:ALA:HA	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:733:ARG:HG2	1:m:734:ASN:N	2.34	0.42
1:o:345:ASP:O	1:o:346:SER:OG	2.35	0.42
1:o:477:TRP:C	1:o:478:LEU:HD12	2.43	0.42
1:o:692:LYS:HE2	1:4:398:PHE:CD1	2.54	0.42
1:q:692:LYS:HE2	1:z:398:PHE:CD1	2.54	0.42
1:q:710:VAL:HB	1:q:713:THR:HG21	2.00	0.42
1:s:288:HIS:ND1	1:s:364:PRO:HB3	2.34	0.42
1:s:324:THR:HG22	1:s:326:ASN:H	1.84	0.42
1:t:247:TRP:O	1:t:675:THR:OG1	2.23	0.42
1:t:416:GLU:OE2	1:t:640:LYS:N	2.48	0.42
1:w:324:THR:HG22	1:w:326:ASN:H	1.84	0.42
1:x:269:ASP:HB3	1:x:513:ARG:HB2	2.01	0.42
1:z:710:VAL:HB	1:z:713:THR:HG21	2.00	0.42
1:3:288:HIS:ND1	1:3:364:PRO:HB3	2.34	0.42
1:4:269:ASP:HB3	1:4:513:ARG:HB2	2.01	0.42
1:4:523:MET:SD	1:4:572:ALA:HA	2.58	0.42
1:6:324:THR:HG22	1:6:326:ASN:H	1.84	0.42
1:6:452:SER:HB2	1:6:457:GLN:HG2	2.01	0.42
1:6:523:MET:SD	1:6:572:ALA:HA	2.58	0.42
1:8:234:TRP:CZ3	1:8:298[B]:ARG:HG2	2.54	0.42
1:A:510:LEU:HD12	1:f:479:PRO:HG3	2.01	0.42
1:C:404:ARG:H	1:C:407:ASN:ND2	2.16	0.42
1:C:523:MET:SD	1:C:572:ALA:HA	2.58	0.42
1:D:509:HIS:ND1	1:D:514:ASP:OD1	2.40	0.42
1:E:398:PHE:CE1	1:i:692:LYS:HE2	2.54	0.42
1:F:511:ASN:ND2	1:c:566:ARG:HD3	2.34	0.42
1:G:247:TRP:O	1:G:675:THR:OG1	2.23	0.42
1:G:416:GLU:OE2	1:G:640:LYS:N	2.48	0.42
1:H:304:TRP:CE3	1:H:733:ARG:NH2	2.87	0.42
1:I:404:ARG:H	1:I:407:ASN:ND2	2.15	0.42
1:I:452:SER:HB2	1:I:457:GLN:HG2	2.01	0.42
1:I:511:ASN:ND2	1:O:566:ARG:HD3	2.34	0.42
1:K:479:PRO:HG3	1:P:510:LEU:HD12	2.02	0.42
1:K:733:ARG:HG2	1:K:734:ASN:N	2.34	0.42
1:N:510:LEU:HD12	1:V:479:PRO:HG3	2.01	0.42
1:O:477:TRP:C	1:O:478:LEU:HD12	2.43	0.42
1:P:229[B]:HIS:CD2	1:P:242:THR:HG21	2.55	0.42
1:S:304:TRP:CE3	1:S:733:ARG:NH2	2.87	0.42
1:T:295:ASP:HA	1:T:298[A]:ARG:NH1	2.35	0.42
1:T:733:ARG:HG2	1:T:734:ASN:N	2.34	0.42
1:U:288:HIS:ND1	1:U:364:PRO:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:452:SER:HB2	1:W:457:GLN:HG2	2.01	0.42
1:W:510:LEU:HD12	1:u:479:PRO:HG3	2.00	0.42
1:a:269:ASP:HB3	1:a:513:ARG:HB2	2.01	0.42
1:a:398:PHE:CD1	1:y:692:LYS:HE2	2.53	0.42
1:b:733:ARG:HG2	1:b:734:ASN:N	2.34	0.42
1:e:269:ASP:HB3	1:e:513:ARG:HB2	2.01	0.42
1:e:416:GLU:OE2	1:e:640:LYS:N	2.48	0.42
1:g:324:THR:HG22	1:g:326:ASN:H	1.84	0.42
1:i:304:TRP:CE3	1:i:733:ARG:NH2	2.87	0.42
1:j:452:SER:HB2	1:j:457:GLN:HG2	2.01	0.42
1:l:288:HIS:ND1	1:l:364:PRO:HB3	2.34	0.42
1:n:288:HIS:ND1	1:n:364:PRO:HB3	2.34	0.42
1:n:477:TRP:C	1:n:478:LEU:HD12	2.43	0.42
1:p:470:ILE:O	1:p:475:ARG:NH2	2.47	0.42
1:r:234:TRP:CE3	1:r:298[B]:ARG:CD	3.00	0.42
1:r:403:LEU:HD11	1:r:409:PHE:HB2	2.00	0.42
1:t:288:HIS:ND1	1:t:364:PRO:HB3	2.34	0.42
1:t:403:LEU:HD11	1:t:409:PHE:HB2	2.00	0.42
1:t:733:ARG:HG2	1:t:734:ASN:N	2.34	0.42
1:u:477:TRP:C	1:u:478:LEU:HD12	2.43	0.42
1:x:304:TRP:CE3	1:x:733:ARG:NH2	2.87	0.42
1:y:288:HIS:ND1	1:y:364:PRO:HB3	2.34	0.42
1:y:403:LEU:HD11	1:y:409:PHE:HB2	2.00	0.42
1:1:324:THR:HG22	1:1:326:ASN:H	1.84	0.42
1:5:269:ASP:HB3	1:5:513:ARG:HB2	2.01	0.42
1:7:404:ARG:H	1:7:407:ASN:ND2	2.15	0.42
1:7:733:ARG:HG2	1:7:734:ASN:N	2.34	0.42
1:A:469:ASP:C	1:A:471:ARG:H	2.26	0.42
1:A:509:HIS:NE2	1:f:574:GLU:OE1	2.52	0.42
1:B:324:THR:HG22	1:B:326:ASN:H	1.84	0.42
1:C:223:ASN:N	1:c:404:ARG:HD2	2.34	0.42
1:E:452:SER:HB2	1:E:457:GLN:HG2	2.01	0.42
1:E:511:ASN:ND2	1:i:566:ARG:HD3	2.34	0.42
1:E:529:ASP:CG	1:p:382:ASN:HD21	2.27	0.42
1:F:403:LEU:HD11	1:F:409:PHE:HB2	2.00	0.42
1:F:510:LEU:HD12	1:c:479:PRO:HG3	2.01	0.42
1:I:733:ARG:HG2	1:I:734:ASN:N	2.34	0.42
1:J:477:TRP:C	1:J:478:LEU:HD12	2.43	0.42
1:J:565:ILE:HG23	1:J:565:ILE:HD12	1.75	0.42
1:L:733:ARG:HG2	1:L:734:ASN:N	2.34	0.42
1:N:304:TRP:CE3	1:N:733:ARG:NH2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:288:HIS:ND1	1:O:364:PRO:HB3	2.34	0.42
1:O:304:TRP:CE3	1:O:733:ARG:NH2	2.87	0.42
1:R:288:HIS:ND1	1:R:364:PRO:HB3	2.34	0.42
1:S:398:PHE:CE1	1:z:692:LYS:HE2	2.54	0.42
1:U:479:PRO:HG3	1:2:510:LEU:HD12	2.01	0.42
1:V:223:ASN:N	1:f:404:ARG:HD2	2.35	0.42
1:b:304:TRP:CE3	1:b:733:ARG:NH2	2.87	0.42
1:b:324:THR:HG22	1:b:326:ASN:H	1.84	0.42
1:c:269:ASP:HB3	1:c:513:ARG:HB2	2.01	0.42
1:d:288:HIS:ND1	1:d:364:PRO:HB3	2.34	0.42
1:e:234:TRP:NE1	1:e:298[A]:ARG:HD2	2.33	0.42
1:f:288:HIS:ND1	1:f:364:PRO:HB3	2.34	0.42
1:f:324:THR:HG22	1:f:326:ASN:H	1.84	0.42
1:f:510:LEU:HD12	1:n:479:PRO:HG3	2.00	0.42
1:f:565:ILE:HG23	1:f:565:ILE:HD12	1.75	0.42
1:g:404:ARG:H	1:g:407:ASN:ND2	2.15	0.42
1:j:497:ASN:ND2	1:4:456:THR:O	2.36	0.42
1:k:234:TRP:CD2	1:k:298[B]:ARG:CD	3.01	0.42
1:k:234:TRP:NE1	1:k:298[A]:ARG:HH11	2.17	0.42
1:k:403:LEU:HD11	1:k:409:PHE:HB2	2.00	0.42
1:l:477:TRP:C	1:l:478:LEU:HD12	2.43	0.42
1:m:456:THR:O	1:5:497:ASN:ND2	2.36	0.42
1:n:229[A]:HIS:CE1	1:n:314:LYS:NZ	2.87	0.42
1:n:229[B]:HIS:HD2	1:n:242:THR:HG21	1.79	0.42
1:p:565:ILE:HD12	1:p:565:ILE:HG23	1.75	0.42
1:s:416:GLU:OE2	1:s:640:LYS:N	2.48	0.42
1:t:452:SER:HB2	1:t:457:GLN:HG2	2.01	0.42
1:u:404:ARG:H	1:u:407:ASN:ND2	2.16	0.42
1:1:733:ARG:HG2	1:1:734:ASN:N	2.34	0.42
1:3:269:ASP:HB3	1:3:513:ARG:HB2	2.01	0.42
1:3:403:LEU:HD11	1:3:409:PHE:HB2	2.00	0.42
1:3:523:MET:SD	1:3:572:ALA:HA	2.58	0.42
1:4:733:ARG:HG2	1:4:734:ASN:N	2.34	0.42
1:5:733:ARG:HG2	1:5:734:ASN:N	2.34	0.42
1:6:288:HIS:ND1	1:6:364:PRO:HB3	2.34	0.42
1:8:404:ARG:H	1:8:407:ASN:ND2	2.16	0.42
1:B:398:PHE:CE1	1:2:692:LYS:HE2	2.54	0.42
1:B:404:ARG:H	1:B:407:ASN:ND2	2.15	0.42
1:B:733:ARG:HG2	1:B:734:ASN:N	2.34	0.42
1:D:398:PHE:CE1	1:x:692:LYS:HE2	2.54	0.42
1:D:403:LEU:HD11	1:D:409:PHE:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:509:HIS:NE2	1:c:574:GLU:OE1	2.52	0.42
1:G:403:LEU:HD11	1:G:409:PHE:HB2	2.00	0.42
1:G:452:SER:HB2	1:G:457:GLN:HG2	2.01	0.42
1:G:589:GLN:HA	1:g:496:ASN:HD22	1.83	0.42
1:H:269:ASP:HB3	1:H:513:ARG:HB2	2.01	0.42
1:H:733:ARG:HG2	1:H:734:ASN:N	2.34	0.42
1:I:477:TRP:C	1:I:478:LEU:HD12	2.43	0.42
1:P:324:THR:HG22	1:P:326:ASN:H	1.84	0.42
1:Q:511:ASN:ND2	1:Z:566:ARG:HD3	2.34	0.42
1:R:269:ASP:HB3	1:R:513:ARG:HB2	2.01	0.42
1:R:710:VAL:HB	1:R:713:THR:HG21	2.00	0.42
1:U:234:TRP:CD2	1:U:298[B]:ARG:NE	2.87	0.42
1:W:288:HIS:ND1	1:W:364:PRO:HB3	2.34	0.42
1:Y:404:ARG:H	1:Y:407:ASN:ND2	2.15	0.42
1:a:403:LEU:HD11	1:a:409:PHE:HB2	2.00	0.42
1:a:523:MET:SD	1:a:572:ALA:HA	2.58	0.42
1:b:601:LEU:N	1:b:604:MET:HE2	2.23	0.42
1:e:234:TRP:CE2	1:e:298[A]:ARG:HD2	2.55	0.42
1:e:601:LEU:N	1:e:604:MET:HE2	2.23	0.42
1:f:304:TRP:CE3	1:f:733:ARG:NH2	2.87	0.42
1:f:601:LEU:N	1:f:604:MET:HE2	2.23	0.42
1:i:510:LEU:HD12	1:p:479:PRO:HG3	2.01	0.42
1:l:324:THR:HG22	1:l:326:ASN:H	1.84	0.42
1:n:450:THR:HG1	1:n:461:GLN:HE22	1.64	0.42
1:q:288:HIS:ND1	1:q:364:PRO:HB3	2.34	0.42
1:r:304:TRP:CE3	1:r:733:ARG:NH2	2.87	0.42
1:u:288:HIS:ND1	1:u:364:PRO:HB3	2.34	0.42
1:u:452:SER:HB2	1:u:457:GLN:HG2	2.01	0.42
1:u:733:ARG:HG2	1:u:734:ASN:N	2.34	0.42
1:v:234:TRP:CZ2	1:v:298[B]:ARG:HB3	2.54	0.42
1:v:452:SER:HB2	1:v:457:GLN:HG2	2.01	0.42
1:w:452:SER:HB2	1:w:457:GLN:HG2	2.01	0.42
1:y:234:TRP:CZ2	1:y:298[B]:ARG:HB3	2.54	0.42
1:z:733:ARG:HG2	1:z:734:ASN:N	2.34	0.42
1:2:452:SER:HB2	1:2:457:GLN:HG2	2.01	0.42
1:2:477:TRP:C	1:2:478:LEU:HD12	2.43	0.42
1:5:304:TRP:CE3	1:5:733:ARG:NH2	2.87	0.42
1:7:345:ASP:C	1:7:347:GLU:H	2.28	0.42
1:A:223:ASN:N	1:H:404:ARG:HD2	2.34	0.42
1:B:512:GLY:HA3	1:2:527:LYS:HE3	2.01	0.42
1:C:452:SER:HB2	1:C:457:GLN:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:529:ASP:CG	1:Y:382:ASN:HD21	2.27	0.42
1:E:345:ASP:C	1:E:347:GLU:H	2.28	0.42
1:H:479:PRO:HG3	1:M:510:LEU:HD12	2.02	0.42
1:H:510:LEU:HD12	1:T:479:PRO:HG3	2.02	0.42
1:I:304:TRP:CE3	1:I:733:ARG:NH2	2.87	0.42
1:I:416:GLU:OE2	1:I:640:LYS:N	2.48	0.42
1:I:479:PRO:HG3	1:6:510:LEU:HD12	2.01	0.42
1:I:509:HIS:NE2	1:O:574:GLU:OE1	2.52	0.42
1:I:529:ASP:CG	1:6:382:ASN:HD21	2.28	0.42
1:J:452:SER:HB2	1:J:457:GLN:HG2	2.01	0.42
1:K:295:ASP:HA	1:K:298[A]:ARG:NH1	2.34	0.42
1:K:304:TRP:CE3	1:K:733:ARG:NH2	2.87	0.42
1:K:510:LEU:HD12	1:X:479:PRO:HG3	2.02	0.42
1:L:304:TRP:CE3	1:L:733:ARG:NH2	2.87	0.42
1:L:345:ASP:C	1:L:347:GLU:H	2.28	0.42
1:O:324:THR:HG22	1:O:326:ASN:H	1.84	0.42
1:P:574:GLU:OE1	1:X:509:HIS:NE2	2.53	0.42
1:R:509:HIS:NE2	1:r:574:GLU:OE1	2.52	0.42
1:S:403:LEU:HD11	1:S:409:PHE:HB2	2.00	0.42
1:T:345:ASP:C	1:T:347:GLU:H	2.28	0.42
1:U:416:GLU:OE2	1:U:640:LYS:N	2.48	0.42
1:V:470:ILE:O	1:V:475:ARG:NH2	2.47	0.42
1:Y:345:ASP:C	1:Y:347:GLU:H	2.28	0.42
1:Z:733:ARG:HG2	1:Z:734:ASN:N	2.34	0.42
1:b:288:HIS:ND1	1:b:364:PRO:HB3	2.34	0.42
1:c:416:GLU:OE2	1:c:640:LYS:N	2.48	0.42
1:c:523:MET:SD	1:c:572:ALA:HA	2.58	0.42
1:c:733:ARG:HG2	1:c:734:ASN:N	2.34	0.42
1:d:450:THR:HG1	1:d:461:GLN:HE22	1.64	0.42
1:d:477:TRP:C	1:d:478:LEU:HD12	2.43	0.42
1:d:565:ILE:HG23	1:d:565:ILE:HD12	1.76	0.42
1:e:304:TRP:CE3	1:e:733:ARG:NH2	2.87	0.42
1:e:523:MET:SD	1:e:572:ALA:HA	2.58	0.42
1:g:589:GLN:HA	1:7:496:ASN:HD22	1.84	0.42
1:i:496:ASN:HD22	1:p:589:GLN:HA	1.84	0.42
1:j:324:THR:HG22	1:j:326:ASN:H	1.84	0.42
1:k:565:ILE:HD12	1:k:565:ILE:HG23	1.75	0.42
1:l:479:PRO:HG3	1:u:510:LEU:HD12	2.01	0.42
1:m:345:ASP:C	1:m:347:GLU:H	2.28	0.42
1:q:269:ASP:HB3	1:q:513:ARG:HB2	2.01	0.42
1:t:324:THR:HG22	1:t:326:ASN:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:304:TRP:CE3	1:u:733:ARG:NH2	2.87	0.42
1:v:469:ASP:C	1:v:471:ARG:H	2.26	0.42
1:w:345:ASP:C	1:w:347:GLU:H	2.28	0.42
1:x:565:ILE:HD12	1:x:565:ILE:HG23	1.75	0.42
1:y:234:TRP:CZ2	1:y:298[A]:ARG:HB2	2.54	0.42
1:z:345:ASP:C	1:z:347:GLU:H	2.28	0.42
1:7:288:HIS:ND1	1:7:364:PRO:HB3	2.34	0.42
1:A:452:SER:HB2	1:A:457:GLN:HG2	2.01	0.42
1:B:527:LYS:HE3	1:U:512:GLY:HA3	2.02	0.42
1:D:510:LEU:HD12	1:x:479:PRO:HG3	2.00	0.42
1:E:509:HIS:NE2	1:i:574:GLU:OE1	2.53	0.42
1:G:324:THR:HG22	1:G:326:ASN:H	1.84	0.42
1:H:288:HIS:ND1	1:H:364:PRO:HB3	2.34	0.42
1:I:288:HIS:ND1	1:I:364:PRO:HB3	2.34	0.42
1:L:269:ASP:HB3	1:L:513:ARG:HB2	2.01	0.42
1:L:479:PRO:HG3	1:r:510:LEU:HD12	2.01	0.42
1:M:574:GLU:OE1	1:T:509:HIS:NE2	2.53	0.42
1:P:269:ASP:HB3	1:P:513:ARG:HB2	2.01	0.42
1:Q:510:LEU:HD12	1:Z:479:PRO:HG3	2.01	0.42
1:T:565:ILE:HD12	1:T:565:ILE:HG23	1.76	0.42
1:V:710:VAL:HB	1:V:713:THR:HG21	2.00	0.42
1:X:450:THR:HG1	1:X:461:GLN:HE22	1.65	0.42
1:Y:288:HIS:ND1	1:Y:364:PRO:HB3	2.34	0.42
1:c:304:TRP:CE3	1:c:733:ARG:NH2	2.87	0.42
1:c:452:SER:HB2	1:c:457:GLN:HG2	2.01	0.42
1:e:733:ARG:HG2	1:e:734:ASN:N	2.34	0.42
1:h:398:PHE:CE1	1:5:692:LYS:HE2	2.55	0.42
1:i:398:PHE:CD1	1:p:692:LYS:HE2	2.55	0.42
1:k:288:HIS:ND1	1:k:364:PRO:HB3	2.34	0.42
1:l:304:TRP:CE3	1:l:733:ARG:NH2	2.87	0.42
1:n:345:ASP:O	1:n:346:SER:OG	2.35	0.42
1:o:269:ASP:HB3	1:o:513:ARG:HB2	2.01	0.42
1:o:614:GLN:OE1	1:o:614:GLN:N	2.53	0.42
1:p:288:HIS:ND1	1:p:364:PRO:HB3	2.34	0.42
1:u:416:GLU:OE2	1:u:640:LYS:N	2.48	0.42
1:v:234:TRP:CZ2	1:v:298[A]:ARG:HB2	2.54	0.42
1:z:304:TRP:CE3	1:z:733:ARG:NH2	2.87	0.42
1:4:304:TRP:CE3	1:4:733:ARG:NH2	2.87	0.42
1:4:345:ASP:C	1:4:347:GLU:H	2.28	0.42
1:5:288:HIS:ND1	1:5:364:PRO:HB3	2.34	0.42
1:8:288:HIS:ND1	1:8:364:PRO:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:345:ASP:C	1:8:347:GLU:H	2.28	0.42
1:8:733:ARG:HG2	1:8:734:ASN:N	2.34	0.42
1:A:288:HIS:ND1	1:A:364:PRO:HB3	2.34	0.42
1:D:288:HIS:ND1	1:D:364:PRO:HB3	2.34	0.42
1:E:398:PHE:CD1	1:i:692:LYS:HE2	2.54	0.42
1:G:398:PHE:CE1	1:7:692:LYS:HE2	2.54	0.42
1:G:509:HIS:NE2	1:7:574:GLU:OE1	2.53	0.42
1:H:511:ASN:ND2	1:T:566:ARG:HD3	2.34	0.42
1:K:341:GLN:HE21	1:K:649:LYS:HD3	1.85	0.42
1:K:345:ASP:C	1:K:347:GLU:H	2.28	0.42
1:K:566:ARG:HD3	1:P:511:ASN:ND2	2.34	0.42
1:P:479:PRO:HG3	1:X:510:LEU:HD12	2.02	0.42
1:Q:345:ASP:C	1:Q:347:GLU:H	2.28	0.42
1:Q:529:ASP:CG	1:k:382:ASN:HD21	2.28	0.42
1:R:324:THR:HG22	1:R:326:ASN:H	1.84	0.42
1:U:345:ASP:C	1:U:347:GLU:H	2.28	0.42
1:V:288:HIS:ND1	1:V:364:PRO:HB3	2.34	0.42
1:X:269:ASP:HB3	1:X:513:ARG:HB2	2.01	0.42
1:X:614:GLN:OE1	1:X:614:GLN:N	2.53	0.42
1:Z:345:ASP:C	1:Z:347:GLU:H	2.28	0.42
1:Z:382:ASN:HD21	1:k:529:ASP:CG	2.26	0.42
1:b:345:ASP:C	1:b:347:GLU:H	2.28	0.42
1:b:496:ASN:HD22	1:d:589:GLN:HA	1.83	0.42
1:c:288:HIS:ND1	1:c:364:PRO:HB3	2.34	0.42
1:d:345:ASP:O	1:d:346:SER:OG	2.35	0.42
1:f:345:ASP:C	1:f:347:GLU:H	2.28	0.42
1:i:404:ARG:H	1:i:407:ASN:ND2	2.15	0.42
1:j:269:ASP:HB3	1:j:513:ARG:HB2	2.01	0.42
1:j:288:HIS:ND1	1:j:364:PRO:HB3	2.34	0.42
1:p:710:VAL:HB	1:p:713:THR:HG21	2.00	0.42
1:q:692:LYS:HE2	1:z:398:PHE:CE1	2.55	0.42
1:s:345:ASP:C	1:s:347:GLU:H	2.28	0.42
1:s:510:LEU:HD12	1:1:479:PRO:HG3	2.00	0.42
1:z:269:ASP:HB3	1:z:513:ARG:HB2	2.01	0.42
1:1:288:HIS:ND1	1:1:364:PRO:HB3	2.34	0.42
1:1:404:ARG:H	1:1:407:ASN:ND2	2.15	0.42
1:3:229[A]:HIS:CE1	1:3:314:LYS:NZ	2.87	0.42
1:4:341:GLN:HE21	1:4:649:LYS:HD3	1.85	0.42
1:4:452:SER:HB2	1:4:457:GLN:HG2	2.01	0.42
1:A:404:ARG:HD2	1:Q:223:ASN:N	2.35	0.42
1:B:288:HIS:ND1	1:B:364:PRO:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:341:GLN:HE21	1:B:649:LYS:HD3	1.85	0.42
1:D:345:ASP:C	1:D:347:GLU:H	2.28	0.42
1:D:589:GLN:HA	1:8:496:ASN:HD22	1.83	0.42
1:E:288:HIS:ND1	1:E:364:PRO:HB3	2.34	0.42
1:G:510:LEU:HD12	1:7:479:PRO:HG3	2.01	0.42
1:G:529:ASP:CG	1:g:382:ASN:HD21	2.27	0.42
1:H:566:ARG:HD3	1:M:511:ASN:ND2	2.35	0.42
1:I:269:ASP:HB3	1:I:513:ARG:HB2	2.01	0.42
1:I:324:THR:HG22	1:I:326:ASN:H	1.84	0.42
1:I:341:GLN:HE21	1:I:649:LYS:HD3	1.85	0.42
1:J:398:PHE:CE1	1:s:692:LYS:HE2	2.54	0.42
1:J:456:THR:O	1:1:497:ASN:ND2	2.36	0.42
1:K:470:ILE:O	1:K:475:ARG:NH2	2.47	0.42
1:L:450:THR:HG1	1:L:461:GLN:HE22	1.67	0.42
1:N:452:SER:HB2	1:N:457:GLN:HG2	2.01	0.42
1:O:398:PHE:CE1	1:6:692:LYS:HE2	2.55	0.42
1:R:382:ASN:HD21	1:r:529:ASP:CG	2.28	0.42
1:R:398:PHE:CE1	1:r:692:LYS:HE2	2.54	0.42
1:R:452:SER:HB2	1:R:457:GLN:HG2	2.01	0.42
1:W:341:GLN:HE21	1:W:649:LYS:HD3	1.85	0.42
1:Y:479:PRO:HG3	1:t:510:LEU:HD12	2.01	0.42
1:Z:288:HIS:ND1	1:Z:364:PRO:HB3	2.34	0.42
1:Z:398:PHE:CE1	1:k:692:LYS:HE2	2.55	0.42
1:d:269:ASP:HB3	1:d:513:ARG:HB2	2.01	0.42
1:g:452:SER:HB2	1:g:457:GLN:HG2	2.01	0.42
1:i:452:SER:HB2	1:i:457:GLN:HG2	2.01	0.42
1:m:565:ILE:HD12	1:m:565:ILE:HG23	1.75	0.42
1:m:614:GLN:HE22	1:m:725:PRO:HA	1.85	0.42
1:n:269:ASP:HB3	1:n:513:ARG:HB2	2.01	0.42
1:q:324:THR:HG22	1:q:326:ASN:H	1.84	0.42
1:q:452:SER:HB2	1:q:457:GLN:HG2	2.01	0.42
1:t:269:ASP:HB3	1:t:513:ARG:HB2	2.01	0.42
1:u:269:ASP:HB3	1:u:513:ARG:HB2	2.01	0.42
1:1:341:GLN:HE21	1:1:649:LYS:HD3	1.85	0.42
1:2:234:TRP:CE3	1:2:298[B]:ARG:CD	3.00	0.42
1:2:288:HIS:ND1	1:2:364:PRO:HB3	2.34	0.42
1:2:565:ILE:HD12	1:2:565:ILE:HG23	1.75	0.42
1:6:341:GLN:HE21	1:6:649:LYS:HD3	1.85	0.42
1:A:341:GLN:HE21	1:A:649:LYS:HD3	1.85	0.42
1:C:511:ASN:ND2	1:t:566:ARG:HD3	2.35	0.42
1:G:269:ASP:HB3	1:G:513:ARG:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:511:ASN:ND2	1:7:566:ARG:HD3	2.34	0.42
1:H:398:PHE:CE1	1:T:692:LYS:HE2	2.55	0.42
1:H:452:SER:HB2	1:H:457:GLN:HG2	2.01	0.42
1:H:574:GLU:OE1	1:M:509:HIS:NE2	2.52	0.42
1:I:382:ASN:HD21	1:O:529:ASP:CG	2.28	0.42
1:J:288:HIS:ND1	1:J:364:PRO:HB3	2.34	0.42
1:K:452:SER:HB2	1:K:457:GLN:HG2	2.01	0.42
1:L:288:HIS:ND1	1:L:364:PRO:HB3	2.34	0.42
1:M:345:ASP:C	1:M:347:GLU:H	2.28	0.42
1:M:566:ARG:HD3	1:T:511:ASN:ND2	2.35	0.42
1:N:288:HIS:ND1	1:N:364:PRO:HB3	2.34	0.42
1:N:404:ARG:H	1:N:407:ASN:ND2	2.15	0.42
1:N:614:GLN:HE22	1:N:725:PRO:HA	1.85	0.42
1:O:223:ASN:N	1:r:404:ARG:HD2	2.35	0.42
1:O:398:PHE:CD1	1:6:692:LYS:HE2	2.55	0.42
1:P:288:HIS:ND1	1:P:364:PRO:HB3	2.34	0.42
1:Q:509:HIS:NE2	1:Z:574:GLU:OE1	2.52	0.42
1:R:398:PHE:CD1	1:r:692:LYS:HE2	2.55	0.42
1:T:288:HIS:ND1	1:T:364:PRO:HB3	2.34	0.42
1:T:614:GLN:HE22	1:T:725:PRO:HA	1.85	0.42
1:V:510:LEU:HD12	1:w:479:PRO:HG3	2.00	0.42
1:Y:589:GLN:HA	1:t:496:ASN:HD22	1.85	0.42
1:Z:341:GLN:HE21	1:Z:649:LYS:HD3	1.85	0.42
1:e:288:HIS:ND1	1:e:364:PRO:HB3	2.34	0.42
1:e:452:SER:HB2	1:e:457:GLN:HG2	2.01	0.42
1:f:382:ASN:HD21	1:n:529:ASP:CG	2.28	0.42
1:h:345:ASP:C	1:h:347:GLU:H	2.28	0.42
1:h:496:ASN:HD22	1:5:589:GLN:HA	1.85	0.42
1:i:601:LEU:N	1:i:604:MET:HE2	2.23	0.42
1:i:614:GLN:HE22	1:i:725:PRO:HA	1.85	0.42
1:k:345:ASP:C	1:k:347:GLU:H	2.28	0.42
1:n:345:ASP:C	1:n:347:GLU:H	2.28	0.42
1:o:589:GLN:HA	1:4:496:ASN:HD22	1.85	0.42
1:u:341:GLN:HE21	1:u:649:LYS:HD3	1.85	0.42
1:v:288:HIS:ND1	1:v:364:PRO:HB3	2.34	0.42
1:v:341:GLN:HE21	1:v:649:LYS:HD3	1.85	0.42
1:v:470:ILE:O	1:v:475:ARG:NH2	2.47	0.42
1:z:288:HIS:ND1	1:z:364:PRO:HB3	2.34	0.42
1:4:413:TYR:OH	1:4:641:HIS:O	2.31	0.42
1:8:341:GLN:HE21	1:8:649:LYS:HD3	1.85	0.42
1:8:416:GLU:OE2	1:8:640:LYS:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:398:PHE:CD1	1:2:692:LYS:HE2	2.55	0.42
1:D:223:ASN:N	1:O:404:ARG:HD2	2.35	0.42
1:E:365:PHE:HA	1:E:366:PRO:HD3	1.94	0.42
1:F:398:PHE:CE1	1:c:692:LYS:HE2	2.55	0.42
1:G:479:PRO:HG3	1:g:510:LEU:HD12	2.01	0.42
1:I:510:LEU:HD12	1:O:479:PRO:HG3	2.01	0.42
1:R:345:ASP:C	1:R:347:GLU:H	2.28	0.42
1:S:324:THR:HG22	1:S:326:ASN:H	1.84	0.42
1:W:614:GLN:HE22	1:W:725:PRO:HA	1.85	0.42
1:X:614:GLN:HE22	1:X:725:PRO:HA	1.85	0.42
1:a:496:ASN:HD22	1:y:589:GLN:HA	1.84	0.42
1:i:288:HIS:ND1	1:i:364:PRO:HB3	2.34	0.42
1:j:692:LYS:HE2	1:o:398:PHE:CE1	2.55	0.42
1:m:288:HIS:ND1	1:m:364:PRO:HB3	2.34	0.42
1:q:345:ASP:C	1:q:347:GLU:H	2.28	0.42
1:r:324:THR:HG22	1:r:326:ASN:H	1.84	0.42
1:s:404:ARG:H	1:s:407:ASN:ND2	2.16	0.42
1:u:324:THR:HG22	1:u:326:ASN:H	1.84	0.42
1:v:614:GLN:HE22	1:v:725:PRO:HA	1.85	0.42
1:w:288:HIS:ND1	1:w:364:PRO:HB3	2.34	0.42
1:w:733:ARG:HG2	1:w:734:ASN:N	2.34	0.42
1:x:345:ASP:C	1:x:347:GLU:H	2.28	0.42
1:x:345:ASP:O	1:x:346:SER:OG	2.35	0.42
1:z:324:THR:HG22	1:z:326:ASN:H	1.84	0.42
1:1:295:ASP:OD1	1:1:298[A]:ARG:NH1	2.47	0.42
1:2:345:ASP:C	1:2:347:GLU:H	2.28	0.42
1:5:614:GLN:OE1	1:5:614:GLN:N	2.53	0.42
1:6:345:ASP:C	1:6:347:GLU:H	2.28	0.42
1:A:614:GLN:HE22	1:A:725:PRO:HA	1.85	0.41
1:B:382:ASN:HD21	1:2:529:ASP:CG	2.28	0.41
1:D:324:THR:HG22	1:D:326:ASN:H	1.84	0.41
1:E:733:ARG:HG2	1:E:734:ASN:N	2.34	0.41
1:G:341:GLN:HE21	1:G:649:LYS:HD3	1.85	0.41
1:H:614:GLN:OE1	1:H:614:GLN:N	2.53	0.41
1:L:234:TRP:CE2	1:L:298[B]:ARG:CD	3.00	0.41
1:L:284:PHE:CD1	1:L:284:PHE:O	2.73	0.41
1:L:324:THR:HG22	1:L:326:ASN:H	1.84	0.41
1:Q:404:ARG:H	1:Q:407:ASN:ND2	2.16	0.41
1:S:345:ASP:C	1:S:347:GLU:H	2.28	0.41
1:S:404:ARG:H	1:S:407:ASN:ND2	2.16	0.41
1:U:628:PHE:O	1:U:629[B]:HIS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:511:ASN:ND2	1:w:566:ARG:HD3	2.35	0.41
1:W:345:ASP:C	1:W:347:GLU:H	2.28	0.41
1:X:324:THR:HG22	1:X:326:ASN:H	1.84	0.41
1:Z:398:PHE:CD1	1:k:692:LYS:HE2	2.55	0.41
1:Z:416:GLU:OE2	1:Z:640:LYS:N	2.48	0.41
1:b:341:GLN:HE21	1:b:649:LYS:HD3	1.85	0.41
1:d:345:ASP:C	1:d:347:GLU:H	2.28	0.41
1:f:341:GLN:HE21	1:f:649:LYS:HD3	1.85	0.41
1:h:450:THR:HG1	1:h:461:GLN:HE22	1.64	0.41
1:j:398:PHE:CD1	1:4:692:LYS:HE2	2.55	0.41
1:n:365:PHE:HA	1:n:366:PRO:HD3	1.94	0.41
1:o:345:ASP:C	1:o:347:GLU:H	2.28	0.41
1:o:579:VAL:C	1:o:592:THR:HG1	2.25	0.41
1:o:614:GLN:HE22	1:o:725:PRO:HA	1.85	0.41
1:r:345:ASP:C	1:r:347:GLU:H	2.28	0.41
1:t:341:GLN:HE21	1:t:649:LYS:HD3	1.85	0.41
1:x:398:PHE:CD1	1:8:692:LYS:HE2	2.55	0.41
1:y:284:PHE:O	1:y:284:PHE:CD1	2.73	0.41
1:y:324:THR:HG22	1:y:326:ASN:H	1.84	0.41
1:y:733:ARG:HG2	1:y:734:ASN:N	2.34	0.41
1:z:341:GLN:HE21	1:z:649:LYS:HD3	1.85	0.41
1:z:450:THR:HG1	1:z:461:GLN:HE22	1.67	0.41
1:1:234:TRP:HE1	1:1:298[A]:ARG:HH11	1.65	0.41
1:1:284:PHE:O	1:1:284:PHE:CD1	2.73	0.41
1:5:452:SER:HB2	1:5:457:GLN:HG2	2.01	0.41
1:A:470:ILE:O	1:A:475:ARG:NH2	2.47	0.41
1:B:284:PHE:O	1:B:284:PHE:CD1	2.74	0.41
1:D:284:PHE:CD1	1:D:284:PHE:O	2.74	0.41
1:F:284:PHE:O	1:F:284:PHE:CD1	2.73	0.41
1:F:324:THR:HG22	1:F:326:ASN:H	1.84	0.41
1:F:404:ARG:HD2	1:I:223:ASN:N	2.35	0.41
1:F:733:ARG:HG2	1:F:734:ASN:N	2.34	0.41
1:H:229[B]:HIS:CD2	1:H:242:THR:HG21	2.55	0.41
1:H:345:ASP:C	1:H:347:GLU:H	2.28	0.41
1:J:284:PHE:O	1:J:284:PHE:CD1	2.73	0.41
1:J:341:GLN:HE21	1:J:649:LYS:HD3	1.85	0.41
1:J:345:ASP:C	1:J:347:GLU:H	2.28	0.41
1:J:589:GLN:HA	1:1:496:ASN:HD22	1.85	0.41
1:L:341:GLN:HE21	1:L:649:LYS:HD3	1.85	0.41
1:L:510:LEU:HD12	1:R:479:PRO:HG3	2.02	0.41
1:M:450:THR:HG1	1:M:461:GLN:HE22	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:345:ASP:C	1:N:347:GLU:H	2.28	0.41
1:Q:284:PHE:CD1	1:Q:284:PHE:O	2.73	0.41
1:R:614:GLN:OE1	1:R:614:GLN:N	2.53	0.41
1:S:589:GLN:HA	1:q:496:ASN:HD22	1.85	0.41
1:T:324:THR:HG22	1:T:326:ASN:H	1.84	0.41
1:U:404:ARG:H	1:U:407:ASN:ND2	2.16	0.41
1:V:269:ASP:HB3	1:V:513:ARG:HB2	2.01	0.41
1:Y:234:TRP:NE1	1:Y:298[A]:ARG:HD2	2.35	0.41
1:Z:511:ASN:ND2	1:k:566:ARG:HD3	2.35	0.41
1:i:324:THR:HG22	1:i:326:ASN:H	1.84	0.41
1:j:589:GLN:HA	1:o:496:ASN:HD22	1.85	0.41
1:k:284:PHE:O	1:k:284:PHE:CD1	2.74	0.41
1:k:324:THR:HG22	1:k:326:ASN:H	1.84	0.41
1:m:341:GLN:HE21	1:m:649:LYS:HD3	1.85	0.41
1:o:284:PHE:CD1	1:o:284:PHE:O	2.73	0.41
1:o:324:THR:HG22	1:o:326:ASN:H	1.84	0.41
1:o:450:THR:HG1	1:o:461:GLN:HE22	1.66	0.41
1:o:692:LYS:HE2	1:4:398:PHE:CE1	2.55	0.41
1:q:456:THR:O	1:z:497:ASN:ND2	2.37	0.41
1:r:404:ARG:H	1:r:407:ASN:ND2	2.15	0.41
1:x:404:ARG:H	1:x:407:ASN:ND2	2.16	0.41
1:x:630:PRO:O	1:8:477:TRP:HH2	2.03	0.41
1:z:284:PHE:CD1	1:z:284:PHE:O	2.74	0.41
1:z:452:SER:HB2	1:z:457:GLN:HG2	2.01	0.41
1:2:324:THR:HG22	1:2:326:ASN:H	1.84	0.41
1:2:341:GLN:HE21	1:2:649:LYS:HD3	1.85	0.41
1:3:452:SER:HB2	1:3:457:GLN:HG2	2.01	0.41
1:4:470:ILE:O	1:4:475:ARG:NH2	2.47	0.41
1:6:614:GLN:HE22	1:6:725:PRO:HA	1.85	0.41
1:8:284:PHE:O	1:8:284:PHE:CD1	2.73	0.41
1:8:452:SER:HB2	1:8:457:GLN:HG2	2.01	0.41
1:A:345:ASP:C	1:A:347:GLU:H	2.28	0.41
1:A:398:PHE:CE1	1:f:692:LYS:HE2	2.55	0.41
1:B:299:LEU:HD11	1:B:306:PHE:CD2	2.56	0.41
1:C:284:PHE:O	1:C:284:PHE:CD1	2.73	0.41
1:C:509:HIS:NE2	1:t:574:GLU:OE1	2.54	0.41
1:D:341:GLN:HE21	1:D:649:LYS:HD3	1.85	0.41
1:E:479:PRO:HG3	1:p:510:LEU:HD12	2.01	0.41
1:F:341:GLN:HE21	1:F:649:LYS:HD3	1.85	0.41
1:F:382:ASN:HD21	1:c:529:ASP:CG	2.28	0.41
1:F:398:PHE:CD1	1:c:692:LYS:HE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:274:GLY:HA3	1:H:378:LEU:HD23	2.03	0.41
1:K:299:LEU:HD11	1:K:306:PHE:CD2	2.56	0.41
1:K:301:ASN:HB3	1:K:699:GLN:NE2	2.36	0.41
1:L:234:TRP:CZ3	1:L:298[B]:ARG:HG2	2.55	0.41
1:L:274:GLY:HA3	1:L:378:LEU:HD23	2.03	0.41
1:L:452:SER:HB2	1:L:457:GLN:HG2	2.01	0.41
1:M:479:PRO:HG3	1:T:510:LEU:HD12	2.02	0.41
1:N:479:PRO:HG3	1:w:510:LEU:HD12	2.01	0.41
1:O:299:LEU:HD11	1:O:306:PHE:CD2	2.56	0.41
1:O:301:ASN:HB3	1:O:699:GLN:NE2	2.36	0.41
1:O:365:PHE:HA	1:O:366:PRO:HD3	1.94	0.41
1:P:341:GLN:HE21	1:P:649:LYS:HD3	1.85	0.41
1:T:341:GLN:HE21	1:T:649:LYS:HD3	1.85	0.41
1:V:284:PHE:O	1:V:284:PHE:CD1	2.73	0.41
1:V:512:GLY:HA3	1:w:527:LYS:HE3	2.03	0.41
1:W:483:TYR:OH	1:W:507:LYS:O	2.38	0.41
1:X:284:PHE:O	1:X:284:PHE:CD1	2.74	0.41
1:X:345:ASP:C	1:X:347:GLU:H	2.28	0.41
1:Y:284:PHE:CD1	1:Y:284:PHE:O	2.73	0.41
1:Y:341:GLN:HE21	1:Y:649:LYS:HD3	1.85	0.41
1:Z:284:PHE:O	1:Z:284:PHE:CD1	2.74	0.41
1:b:234:TRP:CE2	1:b:298[A]:ARG:HD2	2.55	0.41
1:b:301:ASN:HB3	1:b:699:GLN:NE2	2.36	0.41
1:c:284:PHE:O	1:c:284:PHE:CD1	2.74	0.41
1:d:284:PHE:CD1	1:d:284:PHE:O	2.73	0.41
1:e:234:TRP:CH2	1:e:298[A]:ARG:HB2	2.56	0.41
1:e:284:PHE:O	1:e:284:PHE:CD1	2.74	0.41
1:e:345:ASP:C	1:e:347:GLU:H	2.28	0.41
1:f:404:ARG:H	1:f:407:ASN:ND2	2.15	0.41
1:g:284:PHE:CD1	1:g:284:PHE:O	2.73	0.41
1:h:284:PHE:O	1:h:284:PHE:CD1	2.73	0.41
1:h:692:LYS:HE2	1:m:398:PHE:CE1	2.55	0.41
1:i:345:ASP:C	1:i:347:GLU:H	2.28	0.41
1:j:483:TYR:OH	1:j:507:LYS:O	2.38	0.41
1:k:301:ASN:HB3	1:k:699:GLN:NE2	2.36	0.41
1:k:341:GLN:HE21	1:k:649:LYS:HD3	1.85	0.41
1:k:614:GLN:HE22	1:k:725:PRO:HA	1.85	0.41
1:l:365:PHE:HA	1:l:366:PRO:HD3	1.94	0.41
1:l:589:GLN:HA	1:u:496:ASN:HD22	1.85	0.41
1:l:692:LYS:HE2	1:u:398:PHE:CD1	2.55	0.41
1:n:284:PHE:O	1:n:284:PHE:CD1	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:269:ASP:HB3	1:p:513:ARG:HB2	2.01	0.41
1:p:284:PHE:O	1:p:284:PHE:CD1	2.73	0.41
1:q:284:PHE:CD1	1:q:284:PHE:O	2.73	0.41
1:q:614:GLN:OE1	1:q:614:GLN:N	2.53	0.41
1:q:614:GLN:HE22	1:q:725:PRO:HA	1.85	0.41
1:s:614:GLN:OE1	1:s:614:GLN:N	2.53	0.41
1:t:299:LEU:HD11	1:t:306:PHE:CD2	2.56	0.41
1:w:365:PHE:HA	1:w:366:PRO:HD3	1.94	0.41
1:x:284:PHE:O	1:x:284:PHE:CD1	2.74	0.41
1:z:274:GLY:HA3	1:z:378:LEU:HD23	2.03	0.41
1:2:284:PHE:O	1:2:284:PHE:CD1	2.74	0.41
1:4:299:LEU:HD11	1:4:306:PHE:CD2	2.56	0.41
1:4:301:ASN:HB3	1:4:699:GLN:NE2	2.36	0.41
1:7:284:PHE:CD1	1:7:284:PHE:O	2.73	0.41
1:A:301:ASN:HB3	1:A:699:GLN:NE2	2.36	0.41
1:C:298[B]:ARG:NH1	1:3:689:GLU:OE2	2.53	0.41
1:C:299:LEU:HD11	1:C:306:PHE:CD2	2.56	0.41
1:D:511:ASN:ND2	1:x:566:ARG:HD3	2.35	0.41
1:D:614:GLN:HE22	1:D:725:PRO:HA	1.85	0.41
1:G:299:LEU:HD11	1:G:306:PHE:CD2	2.56	0.41
1:I:398:PHE:CE1	1:O:692:LYS:HE2	2.55	0.41
1:J:324:THR:HG22	1:J:326:ASN:H	1.84	0.41
1:K:413:TYR:OH	1:K:641:HIS:O	2.31	0.41
1:K:692:LYS:HE2	1:P:398:PHE:CE1	2.55	0.41
1:L:234:TRP:CD2	1:L:298[B]:ARG:NE	2.87	0.41
1:L:416:GLU:OE2	1:L:640:LYS:N	2.48	0.41
1:L:511:ASN:ND2	1:R:566:ARG:HD3	2.35	0.41
1:M:284:PHE:O	1:M:284:PHE:CD1	2.74	0.41
1:M:301:ASN:HB3	1:M:699:GLN:NE2	2.36	0.41
1:M:529:ASP:CG	1:T:382:ASN:HD21	2.28	0.41
1:M:614:GLN:HE22	1:M:725:PRO:HA	1.85	0.41
1:N:324:THR:HG22	1:N:326:ASN:H	1.84	0.41
1:N:601:LEU:N	1:N:604:MET:HE2	2.23	0.41
1:P:474:SER:HG	1:X:518:ASN:HD22	1.55	0.41
1:P:483:TYR:OH	1:P:507:LYS:O	2.39	0.41
1:Q:382:ASN:HD21	1:Z:529:ASP:CG	2.28	0.41
1:R:284:PHE:O	1:R:284:PHE:CD1	2.74	0.41
1:R:614:GLN:HE22	1:R:725:PRO:HA	1.85	0.41
1:S:284:PHE:O	1:S:284:PHE:CD1	2.73	0.41
1:S:288:HIS:ND1	1:S:364:PRO:HB3	2.34	0.41
1:T:299:LEU:HD11	1:T:306:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:234:TRP:CZ3	1:U:298[B]:ARG:HG2	2.55	0.41
1:V:509:HIS:NE2	1:w:574:GLU:OE1	2.54	0.41
1:Y:483:TYR:OH	1:Y:507:LYS:O	2.39	0.41
1:Z:452:SER:HB2	1:Z:457:GLN:HG2	2.01	0.41
1:a:223:ASN:N	1:7:404:ARG:HD2	2.36	0.41
1:a:341:GLN:HE21	1:a:649:LYS:HD3	1.85	0.41
1:a:692:LYS:HE2	1:e:398:PHE:CD1	2.55	0.41
1:b:274:GLY:HA3	1:b:378:LEU:HD23	2.03	0.41
1:d:274:GLY:HA3	1:d:378:LEU:HD23	2.03	0.41
1:f:301:ASN:HB3	1:f:699:GLN:NE2	2.36	0.41
1:f:345:ASP:O	1:f:346:SER:OG	2.35	0.41
1:i:274:GLY:HA3	1:i:378:LEU:HD23	2.03	0.41
1:j:341:GLN:HE21	1:j:649:LYS:HD3	1.85	0.41
1:l:299:LEU:HD11	1:l:306:PHE:CD2	2.56	0.41
1:m:274:GLY:HA3	1:m:378:LEU:HD23	2.03	0.41
1:m:299:LEU:HD11	1:m:306:PHE:CD2	2.56	0.41
1:m:324:THR:HG22	1:m:326:ASN:H	1.84	0.41
1:n:274:GLY:HA3	1:n:378:LEU:HD23	2.03	0.41
1:o:301:ASN:HB3	1:o:699:GLN:NE2	2.36	0.41
1:r:288:HIS:ND1	1:r:364:PRO:HB3	2.34	0.41
1:r:416:GLU:OE2	1:r:640:LYS:N	2.48	0.41
1:s:413:TYR:OH	1:s:641:HIS:O	2.31	0.41
1:v:301:ASN:HB3	1:v:699:GLN:NE2	2.36	0.41
1:v:345:ASP:C	1:v:347:GLU:H	2.28	0.41
1:v:601:LEU:N	1:v:604:MET:HE2	2.23	0.41
1:w:299:LEU:HD11	1:w:306:PHE:CD2	2.56	0.41
1:y:299:LEU:HD11	1:y:306:PHE:CD2	2.56	0.41
1:y:341:GLN:HE21	1:y:649:LYS:HD3	1.85	0.41
1:y:345:ASP:C	1:y:347:GLU:H	2.28	0.41
1:z:299:LEU:HD11	1:z:306:PHE:CD2	2.56	0.41
1:1:299:LEU:HD11	1:1:306:PHE:CD2	2.56	0.41
1:2:234:TRP:CZ3	1:2:298[B]:ARG:HD3	2.56	0.41
1:3:341:GLN:HE21	1:3:649:LYS:HD3	1.85	0.41
1:4:614:GLN:HE22	1:4:725:PRO:HA	1.85	0.41
1:5:274:GLY:HA3	1:5:378:LEU:HD23	2.03	0.41
1:5:345:ASP:C	1:5:347:GLU:H	2.28	0.41
1:6:299:LEU:HD11	1:6:306:PHE:CD2	2.56	0.41
1:6:483:TYR:OH	1:6:507:LYS:O	2.39	0.41
1:7:324:THR:HG22	1:7:326:ASN:H	1.84	0.41
1:7:341:GLN:HE21	1:7:649:LYS:HD3	1.85	0.41
1:B:483:TYR:OH	1:B:507:LYS:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:614:GLN:HE22	1:B:725:PRO:HA	1.85	0.41
1:D:301:ASN:HB3	1:D:699:GLN:NE2	2.36	0.41
1:E:299:LEU:HD11	1:E:306:PHE:CD2	2.56	0.41
1:E:510:LEU:HD12	1:i:479:PRO:HG3	2.01	0.41
1:F:223:ASN:N	1:P:404:ARG:HD2	2.35	0.41
1:F:299:LEU:HD11	1:F:306:PHE:CD2	2.56	0.41
1:F:614:GLN:HE22	1:F:725:PRO:HA	1.85	0.41
1:H:223:ASN:N	1:X:404:ARG:HD2	2.35	0.41
1:H:301:ASN:HB3	1:H:699:GLN:NE2	2.36	0.41
1:I:345:ASP:C	1:I:347:GLU:H	2.28	0.41
1:K:511:ASN:ND2	1:X:566:ARG:HD3	2.35	0.41
1:K:614:GLN:HE22	1:K:725:PRO:HA	1.85	0.41
1:M:234:TRP:CZ2	1:M:298[B]:ARG:HD3	2.54	0.41
1:N:274:GLY:HA3	1:N:378:LEU:HD23	2.03	0.41
1:N:341:GLN:HE21	1:N:649:LYS:HD3	1.85	0.41
1:P:566:ARG:HD3	1:X:511:ASN:ND2	2.35	0.41
1:Q:299:LEU:HD11	1:Q:306:PHE:CD2	2.56	0.41
1:Q:398:PHE:CD1	1:Z:692:LYS:HE2	2.56	0.41
1:Q:479:PRO:HG3	1:k:510:LEU:HD12	2.01	0.41
1:S:416:GLU:OE2	1:S:640:LYS:N	2.48	0.41
1:S:614:GLN:HE22	1:S:725:PRO:HA	1.85	0.41
1:T:274:GLY:HA3	1:T:378:LEU:HD23	2.03	0.41
1:U:614:GLN:OE1	1:U:614:GLN:N	2.53	0.41
1:U:614:GLN:HE22	1:U:725:PRO:HA	1.85	0.41
1:V:274:GLY:HA3	1:V:378:LEU:HD23	2.03	0.41
1:V:299:LEU:HD11	1:V:306:PHE:CD2	2.56	0.41
1:W:299:LEU:HD11	1:W:306:PHE:CD2	2.56	0.41
1:W:509:HIS:NE2	1:u:574:GLU:OE1	2.54	0.41
1:W:511:ASN:ND2	1:u:566:ARG:HD3	2.35	0.41
1:X:301:ASN:HB3	1:X:699:GLN:NE2	2.36	0.41
1:Y:324:THR:HG22	1:Y:326:ASN:H	1.84	0.41
1:Z:565:ILE:HD12	1:Z:565:ILE:HG23	1.75	0.41
1:a:284:PHE:O	1:a:284:PHE:CD1	2.73	0.41
1:a:301:ASN:HB3	1:a:699:GLN:NE2	2.36	0.41
1:a:452:SER:HB2	1:a:457:GLN:HG2	2.01	0.41
1:b:614:GLN:OE1	1:b:614:GLN:N	2.53	0.41
1:f:614:GLN:OE1	1:f:614:GLN:N	2.53	0.41
1:g:299:LEU:HD11	1:g:306:PHE:CD2	2.56	0.41
1:h:301:ASN:HB3	1:h:699:GLN:NE2	2.36	0.41
1:h:614:GLN:HE22	1:h:725:PRO:HA	1.85	0.41
1:i:341:GLN:HE21	1:i:649:LYS:HD3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:301:ASN:HB3	1:l:699:GLN:NE2	2.36	0.41
1:m:284:PHE:O	1:m:284:PHE:CD1	2.73	0.41
1:p:299:LEU:HD11	1:p:306:PHE:CD2	2.56	0.41
1:q:274:GLY:HA3	1:q:378:LEU:HD23	2.03	0.41
1:r:284:PHE:CD1	1:r:284:PHE:O	2.73	0.41
1:s:398:PHE:CE1	1:1:692:LYS:HE2	2.55	0.41
1:u:345:ASP:C	1:u:347:GLU:H	2.28	0.41
1:y:614:GLN:HE22	1:y:725:PRO:HA	1.85	0.41
1:z:416:GLU:OE2	1:z:640:LYS:N	2.48	0.41
1:1:614:GLN:HE22	1:1:725:PRO:HA	1.85	0.41
1:3:234:TRP:NE1	1:3:298[A]:ARG:HH11	2.19	0.41
1:3:301:ASN:HB3	1:3:699:GLN:NE2	2.36	0.41
1:5:299:LEU:HD11	1:5:306:PHE:CD2	2.56	0.41
1:5:301:ASN:HB3	1:5:699:GLN:NE2	2.36	0.41
1:7:483:TYR:OH	1:7:507:LYS:O	2.39	0.41
1:8:324:THR:HG22	1:8:326:ASN:H	1.84	0.41
1:B:301:ASN:HB3	1:B:699:GLN:NE2	2.36	0.41
1:E:614:GLN:HE22	1:E:725:PRO:HA	1.85	0.41
1:F:301:ASN:HB3	1:F:699:GLN:NE2	2.36	0.41
1:F:529:ASP:CG	1:3:382:ASN:HD21	2.29	0.41
1:I:234:TRP:NE1	1:I:298[B]:ARG:HD3	2.36	0.41
1:I:398:PHE:CD1	1:O:692:LYS:HE2	2.56	0.41
1:L:299:LEU:HD11	1:L:306:PHE:CD2	2.56	0.41
1:M:234:TRP:CZ2	1:M:298[B]:ARG:HB3	2.53	0.41
1:M:416:GLU:OE2	1:M:640:LYS:N	2.48	0.41
1:O:483:TYR:OH	1:O:507:LYS:O	2.39	0.41
1:O:511:ASN:ND2	1:6:566:ARG:HD3	2.36	0.41
1:R:274:GLY:HA3	1:R:378:LEU:HD23	2.03	0.41
1:R:299:LEU:HD11	1:R:306:PHE:CD2	2.56	0.41
1:R:301:ASN:HB3	1:R:699:GLN:NE2	2.36	0.41
1:S:301:ASN:HB3	1:S:699:GLN:NE2	2.36	0.41
1:S:512:GLY:HA3	1:z:527:LYS:HE3	2.03	0.41
1:T:301:ASN:HB3	1:T:699:GLN:NE2	2.36	0.41
1:V:345:ASP:C	1:V:347:GLU:H	2.28	0.41
1:Z:223:ASN:N	1:2:404:ARG:HD2	2.35	0.41
1:Z:324:THR:HG22	1:Z:326:ASN:H	1.84	0.41
1:b:345:ASP:O	1:b:346:SER:OG	2.35	0.41
1:b:398:PHE:CD1	1:d:692:LYS:HE2	2.55	0.41
1:c:345:ASP:C	1:c:347:GLU:H	2.28	0.41
1:c:382:ASN:HD21	1:3:529:ASP:CG	2.28	0.41
1:f:274:GLY:HA3	1:f:378:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:269:ASP:HB3	1:k:513:ARG:HB2	2.01	0.41
1:l:483:TYR:OH	1:l:507:LYS:O	2.38	0.41
1:m:301:ASN:HB3	1:m:699:GLN:NE2	2.36	0.41
1:p:274:GLY:HA3	1:p:378:LEU:HD23	2.03	0.41
1:p:345:ASP:C	1:p:347:GLU:H	2.28	0.41
1:q:301:ASN:HB3	1:q:699:GLN:NE2	2.36	0.41
1:r:301:ASN:HB3	1:r:699:GLN:NE2	2.36	0.41
1:r:614:GLN:HE22	1:r:725:PRO:HA	1.85	0.41
1:t:274:GLY:HA3	1:t:378:LEU:HD23	2.03	0.41
1:w:614:GLN:HE22	1:w:725:PRO:HA	1.85	0.41
1:x:299:LEU:HD11	1:x:306:PHE:CD2	2.56	0.41
1:1:301:ASN:HB3	1:1:699:GLN:NE2	2.36	0.41
1:1:483:TYR:OH	1:1:507:LYS:O	2.39	0.41
1:3:284:PHE:O	1:3:284:PHE:CD1	2.73	0.41
1:3:345:ASP:C	1:3:347:GLU:H	2.28	0.41
1:5:483:TYR:OH	1:5:507:LYS:O	2.38	0.41
1:A:299:LEU:HD11	1:A:306:PHE:CD2	2.56	0.41
1:B:345:ASP:C	1:B:347:GLU:H	2.28	0.41
1:B:566:ARG:HD3	1:U:511:ASN:ND2	2.35	0.41
1:E:301:ASN:HB3	1:E:699:GLN:NE2	2.36	0.41
1:F:345:ASP:C	1:F:347:GLU:H	2.28	0.41
1:G:274:GLY:HA3	1:G:378:LEU:HD23	2.03	0.41
1:G:284:PHE:CD1	1:G:284:PHE:O	2.74	0.41
1:G:301:ASN:HB3	1:G:699:GLN:NE2	2.36	0.41
1:G:614:GLN:OE1	1:G:614:GLN:N	2.53	0.41
1:H:299:LEU:HD11	1:H:306:PHE:CD2	2.56	0.41
1:I:365:PHE:HA	1:I:366:PRO:HD3	1.94	0.41
1:M:341:GLN:HE21	1:M:649:LYS:HD3	1.85	0.41
1:M:404:ARG:HD2	1:P:223:ASN:N	2.35	0.41
1:P:529:ASP:CG	1:X:382:ASN:HD21	2.28	0.41
1:Q:301:ASN:HB3	1:Q:699:GLN:NE2	2.36	0.41
1:S:274:GLY:HA3	1:S:378:LEU:HD23	2.03	0.41
1:S:299:LEU:HD11	1:S:306:PHE:CD2	2.56	0.41
1:S:509:HIS:NE2	1:z:574:GLU:OE1	2.54	0.41
1:T:229[B]:HIS:HD2	1:T:242:THR:HG21	1.84	0.41
1:U:413:TYR:OH	1:U:641:HIS:O	2.31	0.41
1:V:241:THR:HG21	1:V:290:HIS:O	2.21	0.41
1:V:601:LEU:N	1:V:604:MET:HE2	2.23	0.41
1:Y:299:LEU:HD11	1:Y:306:PHE:CD2	2.56	0.41
1:Y:301:ASN:HB3	1:Y:699:GLN:NE2	2.36	0.41
1:a:274:GLY:HA3	1:a:378:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:324:THR:HG22	1:a:326:ASN:H	1.84	0.41
1:a:345:ASP:C	1:a:347:GLU:H	2.28	0.41
1:b:589:GLN:HA	1:v:496:ASN:HD22	1.86	0.41
1:d:223:ASN:N	1:i:404:ARG:HD2	2.36	0.41
1:g:477:TRP:HH2	1:7:630:PRO:O	2.04	0.41
1:h:341:GLN:HE21	1:h:649:LYS:HD3	1.85	0.41
1:h:416:GLU:OE2	1:h:640:LYS:N	2.48	0.41
1:h:601:LEU:N	1:h:604:MET:HE2	2.23	0.41
1:i:284:PHE:CD1	1:i:284:PHE:O	2.74	0.41
1:i:299:LEU:HD11	1:i:306:PHE:CD2	2.56	0.41
1:l:345:ASP:C	1:l:347:GLU:H	2.28	0.41
1:m:692:LYS:HE2	1:5:398:PHE:CD1	2.55	0.41
1:p:241:THR:HG21	1:p:290:HIS:O	2.21	0.41
1:p:614:GLN:HE22	1:p:725:PRO:HA	1.85	0.41
1:q:234:TRP:NE1	1:q:298[A]:ARG:HD2	2.34	0.41
1:r:234:TRP:CZ3	1:r:298[B]:ARG:HD3	2.56	0.41
1:t:284:PHE:CD1	1:t:284:PHE:O	2.73	0.41
1:t:301:ASN:HB3	1:t:699:GLN:NE2	2.36	0.41
1:t:614:GLN:OE1	1:t:614:GLN:N	2.53	0.41
1:v:299:LEU:HD11	1:v:306:PHE:CD2	2.56	0.41
1:w:301:ASN:HB3	1:w:699:GLN:NE2	2.36	0.41
1:x:301:ASN:HB3	1:x:699:GLN:NE2	2.36	0.41
1:y:301:ASN:HB3	1:y:699:GLN:NE2	2.36	0.41
1:1:345:ASP:C	1:1:347:GLU:H	2.28	0.41
1:3:274:GLY:HA3	1:3:378:LEU:HD23	2.03	0.41
1:3:324:THR:HG22	1:3:326:ASN:H	1.84	0.41
1:7:301:ASN:HB3	1:7:699:GLN:NE2	2.36	0.41
1:7:614:GLN:HE22	1:7:725:PRO:HA	1.85	0.41
1:8:614:GLN:HE22	1:8:725:PRO:HA	1.85	0.41
1:A:241:THR:HG21	1:A:290:HIS:O	2.21	0.41
1:A:382:ASN:HD21	1:f:529:ASP:CG	2.29	0.41
1:B:298[B]:ARG:NH1	1:X:689:GLU:OE2	2.54	0.41
1:C:614:GLN:HE22	1:C:725:PRO:HA	1.85	0.41
1:D:269:ASP:HB3	1:D:513:ARG:HB2	2.01	0.41
1:D:483:TYR:OH	1:D:507:LYS:O	2.38	0.41
1:D:512:GLY:HA3	1:x:527:LYS:HE3	2.03	0.41
1:E:341:GLN:HE21	1:E:649:LYS:HD3	1.85	0.41
1:G:345:ASP:C	1:G:347:GLU:H	2.28	0.41
1:H:483:TYR:OH	1:H:507:LYS:O	2.39	0.41
1:J:692:LYS:HE2	1:1:398:PHE:CD1	2.56	0.41
1:K:509:HIS:NE2	1:X:574:GLU:OE1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:483:TYR:OH	1:M:507:LYS:O	2.39	0.41
1:N:284:PHE:CD1	1:N:284:PHE:O	2.73	0.41
1:N:299:LEU:HD11	1:N:306:PHE:CD2	2.56	0.41
1:N:398:PHE:CD1	1:V:692:LYS:HE2	2.56	0.41
1:Q:234:TRP:NE1	1:Q:298[B]:ARG:HD3	2.35	0.41
1:Q:398:PHE:CE1	1:Z:692:LYS:HE2	2.55	0.41
1:T:284:PHE:CD1	1:T:284:PHE:O	2.74	0.41
1:U:241:THR:HG21	1:U:290:HIS:O	2.21	0.41
1:U:284:PHE:O	1:U:284:PHE:CD1	2.74	0.41
1:U:299:LEU:HD11	1:U:306:PHE:CD2	2.56	0.41
1:U:301:ASN:HB3	1:U:699:GLN:NE2	2.36	0.41
1:U:628:PHE:O	1:U:629[A]:HIS:HB3	2.21	0.41
1:W:223:ASN:N	1:Z:404:ARG:HD2	2.35	0.41
1:W:241:THR:HG21	1:W:290:HIS:O	2.21	0.41
1:Z:241:THR:HG21	1:Z:290:HIS:O	2.21	0.41
1:a:512:GLY:HA3	1:y:527:LYS:HE3	2.03	0.41
1:a:630:PRO:O	1:y:477:TRP:HH2	2.04	0.41
1:b:614:GLN:HE22	1:b:725:PRO:HA	1.85	0.41
1:d:301:ASN:HB3	1:d:699:GLN:NE2	2.36	0.41
1:e:341:GLN:HE21	1:e:649:LYS:HD3	1.85	0.41
1:f:284:PHE:O	1:f:284:PHE:CD1	2.73	0.41
1:f:299:LEU:HD11	1:f:306:PHE:CD2	2.56	0.41
1:f:614:GLN:HE22	1:f:725:PRO:HA	1.85	0.41
1:g:341:GLN:HE21	1:g:649:LYS:HD3	1.85	0.41
1:g:345:ASP:C	1:g:347:GLU:H	2.28	0.41
1:g:692:LYS:HE2	1:7:398:PHE:CE1	2.55	0.41
1:j:301:ASN:HB3	1:j:699:GLN:NE2	2.36	0.41
1:j:345:ASP:C	1:j:347:GLU:H	2.28	0.41
1:k:274:GLY:HA3	1:k:378:LEU:HD23	2.03	0.41
1:k:299:LEU:HD11	1:k:306:PHE:CD2	2.56	0.41
1:l:284:PHE:CD1	1:l:284:PHE:O	2.73	0.41
1:n:301:ASN:HB3	1:n:699:GLN:NE2	2.36	0.41
1:q:295:ASP:OD1	1:q:298[A]:ARG:NH1	2.47	0.41
1:q:299:LEU:HD11	1:q:306:PHE:CD2	2.56	0.41
1:r:274:GLY:HA3	1:r:378:LEU:HD23	2.03	0.41
1:s:284:PHE:O	1:s:284:PHE:CD1	2.73	0.41
1:s:614:GLN:HE22	1:s:725:PRO:HA	1.85	0.41
1:t:345:ASP:C	1:t:347:GLU:H	2.28	0.41
1:x:614:GLN:HE22	1:x:725:PRO:HA	1.85	0.41
1:y:579:VAL:C	1:y:592:THR:HG1	2.25	0.41
1:3:299:LEU:HD11	1:3:306:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:529:ASP:CG	1:n:382:ASN:HD21	2.29	0.41
1:A:574:GLU:OE1	1:n:509:HIS:NE2	2.54	0.41
1:A:601:LEU:N	1:A:604:MET:HE2	2.23	0.41
1:C:241:THR:HG21	1:C:290:HIS:O	2.21	0.41
1:C:256:LEU:HD11	1:C:258:LYS:HE3	2.03	0.41
1:C:301:ASN:HB3	1:C:699:GLN:NE2	2.36	0.41
1:C:341:GLN:HE21	1:C:649:LYS:HD3	1.85	0.41
1:C:345:ASP:C	1:C:347:GLU:H	2.28	0.41
1:C:574:GLU:OE1	1:Y:509:HIS:NE2	2.54	0.41
1:D:274:GLY:HA3	1:D:378:LEU:HD23	2.03	0.41
1:D:299:LEU:HD11	1:D:306:PHE:CD2	2.56	0.41
1:E:284:PHE:O	1:E:284:PHE:CD1	2.74	0.41
1:E:483:TYR:OH	1:E:507:LYS:O	2.39	0.41
1:F:241:THR:HG21	1:F:290:HIS:O	2.21	0.41
1:F:512:GLY:HA3	1:c:527:LYS:HE3	2.03	0.41
1:G:256:LEU:HD11	1:G:258:LYS:HE3	2.03	0.41
1:G:483:TYR:OH	1:G:507:LYS:O	2.39	0.41
1:G:509:HIS:ND1	1:G:514:ASP:OD1	2.40	0.41
1:G:614:GLN:HE22	1:G:725:PRO:HA	1.85	0.41
1:H:527:LYS:HE3	1:M:512:GLY:HA3	2.03	0.41
1:H:529:ASP:CG	1:M:382:ASN:HD21	2.28	0.41
1:I:274:GLY:HA3	1:I:378:LEU:HD23	2.03	0.41
1:I:299:LEU:HD11	1:I:306:PHE:CD2	2.56	0.41
1:I:301:ASN:HB3	1:I:699:GLN:NE2	2.36	0.41
1:J:301:ASN:HB3	1:J:699:GLN:NE2	2.36	0.41
1:J:509:HIS:NE2	1:s:574:GLU:OE1	2.54	0.41
1:K:274:GLY:HA3	1:K:378:LEU:HD23	2.03	0.41
1:K:416:GLU:OE2	1:K:640:LYS:N	2.48	0.41
1:K:529:ASP:CG	1:P:382:ASN:HD21	2.29	0.41
1:L:483:TYR:OH	1:L:507:LYS:O	2.39	0.41
1:L:628:PHE:O	1:L:629[A]:HIS:HB3	2.21	0.41
1:M:299:LEU:HD11	1:M:306:PHE:CD2	2.56	0.41
1:N:509:HIS:NE2	1:V:574:GLU:OE1	2.54	0.41
1:O:284:PHE:CD1	1:O:284:PHE:O	2.74	0.41
1:O:345:ASP:C	1:O:347:GLU:H	2.28	0.41
1:O:512:GLY:HA3	1:6:527:LYS:HE3	2.03	0.41
1:P:256:LEU:HD11	1:P:258:LYS:HE3	2.03	0.41
1:P:301:ASN:HB3	1:P:699:GLN:NE2	2.36	0.41
1:P:345:ASP:C	1:P:347:GLU:H	2.28	0.41
1:Q:241:THR:HG21	1:Q:290:HIS:O	2.21	0.41
1:Q:341:GLN:HE21	1:Q:649:LYS:HD3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:404:ARG:HD2	1:U:223:ASN:N	2.36	0.41
1:Q:614:GLN:HE22	1:Q:725:PRO:HA	1.85	0.41
1:S:341:GLN:HE21	1:S:649:LYS:HD3	1.85	0.41
1:S:477:TRP:HH2	1:q:630:PRO:O	2.04	0.41
1:S:483:TYR:OH	1:S:507:LYS:O	2.39	0.41
1:S:511:ASN:ND2	1:z:566:ARG:HD3	2.36	0.41
1:S:692:LYS:HE2	1:q:398:PHE:CD1	2.56	0.41
1:U:341:GLN:HE21	1:U:649:LYS:HD3	1.85	0.41
1:U:509:HIS:ND1	1:U:514:ASP:OD1	2.40	0.41
1:V:483:TYR:OH	1:V:507:LYS:O	2.39	0.41
1:V:614:GLN:HE22	1:V:725:PRO:HA	1.85	0.41
1:W:301:ASN:HB3	1:W:699:GLN:NE2	2.36	0.41
1:Y:614:GLN:HE22	1:Y:725:PRO:HA	1.85	0.41
1:Z:614:GLN:HE22	1:Z:725:PRO:HA	1.85	0.41
1:a:299:LEU:HD11	1:a:306:PHE:CD2	2.56	0.41
1:b:284:PHE:CD1	1:b:284:PHE:O	2.74	0.41
1:b:299:LEU:HD11	1:b:306:PHE:CD2	2.56	0.41
1:b:398:PHE:CE1	1:d:692:LYS:HE2	2.56	0.41
1:b:416:GLU:OE2	1:b:640:LYS:N	2.48	0.41
1:b:692:LYS:HE2	1:v:398:PHE:CD1	2.56	0.41
1:c:241:THR:HG21	1:c:290:HIS:O	2.21	0.41
1:c:256:LEU:HD11	1:c:258:LYS:HE3	2.03	0.41
1:c:301:ASN:HB3	1:c:699:GLN:NE2	2.36	0.41
1:c:341:GLN:HE21	1:c:649:LYS:HD3	1.85	0.41
1:c:483:TYR:OH	1:c:507:LYS:O	2.39	0.41
1:c:509:HIS:NE2	1:3:574:GLU:OE1	2.54	0.41
1:d:256:LEU:HD11	1:d:258:LYS:HE3	2.03	0.41
1:d:614:GLN:OE1	1:d:614:GLN:N	2.53	0.41
1:d:614:GLN:HE22	1:d:725:PRO:HA	1.85	0.41
1:d:630:PRO:O	1:v:477:TRP:HH2	2.04	0.41
1:e:256:LEU:HD11	1:e:258:LYS:HE3	2.03	0.41
1:e:483:TYR:OH	1:e:507:LYS:O	2.39	0.41
1:e:614:GLN:HE22	1:e:725:PRO:HA	1.85	0.41
1:e:692:LYS:HE2	1:y:398:PHE:CD1	2.56	0.41
1:g:241:THR:HG21	1:g:290:HIS:O	2.21	0.41
1:g:256:LEU:HD11	1:g:258:LYS:HE3	2.03	0.41
1:g:614:GLN:HE22	1:g:725:PRO:HA	1.85	0.41
1:g:692:LYS:HE2	1:7:398:PHE:CD1	2.55	0.41
1:h:299:LEU:HD11	1:h:306:PHE:CD2	2.56	0.41
1:h:483:TYR:OH	1:h:507:LYS:O	2.39	0.41
1:h:512:GLY:HA3	1:5:527:LYS:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:630:PRO:O	1:p:477:TRP:HH2	2.04	0.41
1:j:256:LEU:HD11	1:j:258:LYS:HE3	2.03	0.41
1:j:496:ASN:HD22	1:4:589:GLN:HA	1.86	0.41
1:k:256:LEU:HD11	1:k:258:LYS:HE3	2.03	0.41
1:k:483:TYR:OH	1:k:507:LYS:O	2.39	0.41
1:m:234:TRP:CE2	1:m:298[B]:ARG:HD3	2.56	0.41
1:n:234:TRP:NE1	1:n:298[A]:ARG:HH11	2.19	0.41
1:n:256:LEU:HD11	1:n:258:LYS:HE3	2.03	0.41
1:n:614:GLN:OE1	1:n:614:GLN:N	2.53	0.41
1:n:614:GLN:HE22	1:n:725:PRO:HA	1.85	0.41
1:o:477:TRP:HH2	1:4:630:PRO:O	2.04	0.41
1:p:341:GLN:HE21	1:p:649:LYS:HD3	1.85	0.41
1:p:483:TYR:OH	1:p:507:LYS:O	2.39	0.41
1:q:477:TRP:HH2	1:z:630:PRO:O	2.04	0.41
1:r:299:LEU:HD11	1:r:306:PHE:CD2	2.56	0.41
1:r:483:TYR:OH	1:r:507:LYS:O	2.39	0.41
1:s:241:THR:HG21	1:s:290:HIS:O	2.21	0.41
1:s:299:LEU:HD11	1:s:306:PHE:CD2	2.56	0.41
1:s:301:ASN:HB3	1:s:699:GLN:NE2	2.36	0.41
1:s:341:GLN:HE21	1:s:649:LYS:HD3	1.85	0.41
1:t:256:LEU:HD11	1:t:258:LYS:HE3	2.03	0.41
1:t:483:TYR:OH	1:t:507:LYS:O	2.39	0.41
1:u:299:LEU:HD11	1:u:306:PHE:CD2	2.56	0.41
1:v:241:THR:HG21	1:v:290:HIS:O	2.21	0.41
1:w:284:PHE:CD1	1:w:284:PHE:O	2.73	0.41
1:w:341:GLN:HE21	1:w:649:LYS:HD3	1.85	0.41
1:w:483:TYR:OH	1:w:507:LYS:O	2.39	0.41
1:x:241:THR:HG21	1:x:290:HIS:O	2.21	0.41
1:x:341:GLN:HE21	1:x:649:LYS:HD3	1.85	0.41
1:x:470:ILE:O	1:x:475:ARG:NH2	2.47	0.41
1:x:496:ASN:HD22	1:8:589:GLN:HA	1.86	0.41
1:y:241:THR:HG21	1:y:290:HIS:O	2.21	0.41
1:z:483:TYR:OH	1:z:507:LYS:O	2.39	0.41
1:2:614:GLN:HE22	1:2:725:PRO:HA	1.85	0.41
1:4:274:GLY:HA3	1:4:378:LEU:HD23	2.03	0.41
1:4:284:PHE:CD1	1:4:284:PHE:O	2.73	0.41
1:4:416:GLU:OE2	1:4:640:LYS:N	2.48	0.41
1:6:241:THR:HG21	1:6:290:HIS:O	2.21	0.41
1:6:284:PHE:CD1	1:6:284:PHE:O	2.73	0.41
1:6:301:ASN:HB3	1:6:699:GLN:NE2	2.36	0.41
1:7:299:LEU:HD11	1:7:306:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:241:THR:HG21	1:8:290:HIS:O	2.21	0.41
1:8:565:ILE:HD12	1:8:565:ILE:HG23	1.75	0.41
1:A:256:LEU:HD11	1:A:258:LYS:HE3	2.03	0.41
1:C:274:GLY:HA3	1:C:378:LEU:HD23	2.03	0.41
1:C:601:LEU:N	1:C:604:MET:HE2	2.23	0.41
1:C:630:PRO:O	1:t:477:TRP:HH2	2.04	0.41
1:D:630:PRO:O	1:x:477:TRP:HH2	2.04	0.41
1:H:692:LYS:HE2	1:M:398:PHE:CE1	2.56	0.41
1:I:284:PHE:CD1	1:I:284:PHE:O	2.73	0.41
1:J:614:GLN:HE22	1:J:725:PRO:HA	1.85	0.41
1:K:284:PHE:O	1:K:284:PHE:CD1	2.73	0.41
1:K:382:ASN:HD21	1:X:529:ASP:CG	2.28	0.41
1:K:692:LYS:HE2	1:P:398:PHE:CD1	2.56	0.41
1:L:529:ASP:CG	1:r:382:ASN:HD21	2.28	0.41
1:M:692:LYS:HE2	1:T:398:PHE:CE1	2.56	0.41
1:O:509:HIS:NE2	1:6:574:GLU:OE1	2.54	0.41
1:P:299:LEU:HD11	1:P:306:PHE:CD2	2.56	0.41
1:Q:470:ILE:O	1:Q:475:ARG:NH2	2.47	0.41
1:T:345:ASP:O	1:T:346:SER:OG	2.35	0.41
1:U:345:ASP:O	1:U:346:SER:OG	2.35	0.41
1:V:341:GLN:HE21	1:V:649:LYS:HD3	1.85	0.41
1:W:284:PHE:CD1	1:W:284:PHE:O	2.74	0.41
1:W:630:PRO:O	1:u:477:TRP:HH2	2.04	0.41
1:X:241:THR:HG21	1:X:290:HIS:O	2.21	0.41
1:b:234:TRP:CG	1:b:298[B]:ARG:NE	2.89	0.41
1:c:223:ASN:N	1:6:404:ARG:HD2	2.36	0.41
1:c:614:GLN:HE22	1:c:725:PRO:HA	1.85	0.41
1:e:241:THR:HG21	1:e:290:HIS:O	2.21	0.41
1:e:301:ASN:HB3	1:e:699:GLN:NE2	2.36	0.41
1:e:477:TRP:HH2	1:y:630:PRO:O	2.04	0.41
1:f:287:PHE:O	1:f:290:HIS:N	2.53	0.41
1:f:483:TYR:OH	1:f:507:LYS:O	2.39	0.41
1:f:511:ASN:ND2	1:n:566:ARG:HD3	2.36	0.41
1:g:274:GLY:HA3	1:g:378:LEU:HD23	2.03	0.41
1:g:483:TYR:OH	1:g:507:LYS:O	2.39	0.41
1:i:398:PHE:CE1	1:p:692:LYS:HE2	2.56	0.41
1:j:274:GLY:HA3	1:j:378:LEU:HD23	2.03	0.41
1:j:284:PHE:CD1	1:j:284:PHE:O	2.74	0.41
1:j:630:PRO:O	1:4:477:TRP:HH2	2.04	0.41
1:l:477:TRP:HH2	1:u:630:PRO:O	2.03	0.41
1:p:256:LEU:HD11	1:p:258:LYS:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:295:ASP:CG	1:p:298[A]:ARG:HH12	2.22	0.41
1:q:234:TRP:CZ3	1:q:298[B]:ARG:HG2	2.56	0.41
1:s:512:GLY:HA3	1:1:527:LYS:HE3	2.03	0.41
1:u:301:ASN:HB3	1:u:699:GLN:NE2	2.36	0.41
1:u:365:PHE:HA	1:u:366:PRO:HD3	1.94	0.41
1:x:483:TYR:OH	1:x:507:LYS:O	2.39	0.41
1:2:301:ASN:HB3	1:2:699:GLN:NE2	2.36	0.41
1:8:274:GLY:HA3	1:8:378:LEU:HD23	2.03	0.41
1:A:274:GLY:HA3	1:A:378:LEU:HD23	2.03	0.40
1:B:345:ASP:O	1:B:346:SER:OG	2.35	0.40
1:B:479:PRO:HG3	1:U:510:LEU:HD12	2.02	0.40
1:B:589:GLN:HA	1:U:496:ASN:ND2	2.36	0.40
1:C:483:TYR:OH	1:C:507:LYS:O	2.39	0.40
1:D:256:LEU:HD11	1:D:258:LYS:HE3	2.03	0.40
1:D:489:SER:HB2	1:D:532:LYS:HG2	2.04	0.40
1:E:223:ASN:N	1:R:404:ARG:HD2	2.35	0.40
1:G:241:THR:HG21	1:G:290:HIS:O	2.21	0.40
1:H:341:GLN:HE21	1:H:649:LYS:HD3	1.85	0.40
1:I:614:GLN:HE22	1:I:725:PRO:HA	1.85	0.40
1:J:365:PHE:HA	1:J:366:PRO:HD3	1.94	0.40
1:J:477:TRP:HH2	1:1:630:PRO:O	2.04	0.40
1:K:527:LYS:HE3	1:P:512:GLY:HA3	2.03	0.40
1:M:601:LEU:N	1:M:604:MET:HE2	2.23	0.40
1:P:274:GLY:HA3	1:P:378:LEU:HD23	2.03	0.40
1:P:284:PHE:O	1:P:284:PHE:CD1	2.73	0.40
1:P:692:LYS:HE2	1:X:398:PHE:CE1	2.56	0.40
1:Q:483:TYR:OH	1:Q:507:LYS:O	2.39	0.40
1:R:341:GLN:HE21	1:R:649:LYS:HD3	1.85	0.40
1:R:512:GLY:HA3	1:r:527:LYS:HE3	2.03	0.40
1:U:256:LEU:HD11	1:U:258:LYS:HE3	2.03	0.40
1:V:298[B]:ARG:NH1	1:n:689:GLU:OE2	2.54	0.40
1:V:630:PRO:O	1:w:477:TRP:HH2	2.04	0.40
1:W:365:PHE:HA	1:W:366:PRO:HD3	1.94	0.40
1:Z:274:GLY:HA3	1:Z:378:LEU:HD23	2.03	0.40
1:Z:509:HIS:NE2	1:k:574:GLU:OE1	2.54	0.40
1:a:483:TYR:OH	1:a:507:LYS:O	2.39	0.40
1:a:614:GLN:HE22	1:a:725:PRO:HA	1.85	0.40
1:b:287:PHE:O	1:b:290:HIS:N	2.53	0.40
1:b:483:TYR:OH	1:b:507:LYS:O	2.39	0.40
1:f:416:GLU:OE2	1:f:640:LYS:N	2.48	0.40
1:g:301:ASN:HB3	1:g:699:GLN:NE2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:299:LEU:HD11	1:j:306:PHE:CD2	2.56	0.40
1:l:489:SER:HB2	1:l:532:LYS:HG2	2.04	0.40
1:m:589:GLN:HA	1:5:496:ASN:HD22	1.86	0.40
1:n:565:ILE:HG23	1:n:565:ILE:HD12	1.75	0.40
1:o:288:HIS:ND1	1:o:364:PRO:HB3	2.34	0.40
1:p:601:LEU:N	1:p:604:MET:HE2	2.23	0.40
1:r:341:GLN:HE21	1:r:649:LYS:HD3	1.85	0.40
1:s:274:GLY:HA3	1:s:378:LEU:HD23	2.03	0.40
1:t:241:THR:HG21	1:t:290:HIS:O	2.21	0.40
1:t:614:GLN:HE22	1:t:725:PRO:HA	1.85	0.40
1:u:284:PHE:O	1:u:284:PHE:CD1	2.74	0.40
1:u:483:TYR:OH	1:u:507:LYS:O	2.39	0.40
1:u:614:GLN:HE22	1:u:725:PRO:HA	1.85	0.40
1:v:256:LEU:HD11	1:v:258:LYS:HE3	2.03	0.40
1:v:284:PHE:O	1:v:284:PHE:CD1	2.73	0.40
1:x:450:THR:HG1	1:x:461:GLN:HE22	1.66	0.40
1:1:234:TRP:CZ3	1:1:298[B]:ARG:HG2	2.56	0.40
1:5:247:TRP:O	1:5:675:THR:OG1	2.23	0.40
1:5:614:GLN:HE22	1:5:725:PRO:HA	1.85	0.40
1:A:284:PHE:CD1	1:A:284:PHE:O	2.74	0.40
1:A:485:GLN:NE2	1:A:506:THR:HG21	2.37	0.40
1:B:529:ASP:CG	1:U:382:ASN:HD21	2.28	0.40
1:E:256:LEU:HD11	1:E:258:LYS:HE3	2.03	0.40
1:E:477:TRP:HH2	1:p:630:PRO:O	2.04	0.40
1:G:477:TRP:HH2	1:g:630:PRO:O	2.04	0.40
1:H:382:ASN:HD21	1:T:529:ASP:CG	2.29	0.40
1:I:485:GLN:NE2	1:I:506:THR:HG21	2.37	0.40
1:I:512:GLY:HA3	1:O:527:LYS:HE3	2.03	0.40
1:J:483:TYR:OH	1:J:507:LYS:O	2.39	0.40
1:J:630:PRO:O	1:s:477:TRP:HH2	2.04	0.40
1:M:485:GLN:NE2	1:M:506:THR:HG21	2.37	0.40
1:O:489:SER:HB2	1:O:532:LYS:HG2	2.04	0.40
1:P:527:LYS:HE3	1:X:512:GLY:HA3	2.03	0.40
1:Q:485:GLN:NE2	1:Q:506:THR:HG21	2.37	0.40
1:Q:489:SER:HB2	1:Q:532:LYS:HG2	2.04	0.40
1:R:404:ARG:H	1:R:407:ASN:ND2	2.15	0.40
1:U:274:GLY:HA3	1:U:378:LEU:HD23	2.03	0.40
1:V:256:LEU:HD11	1:V:258:LYS:HE3	2.03	0.40
1:Y:234:TRP:CE2	1:Y:298[A]:ARG:HD2	2.57	0.40
1:a:489:SER:HB2	1:a:532:LYS:HG2	2.04	0.40
1:a:692:LYS:HE2	1:e:398:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:512:GLY:HA3	1:d:527:LYS:HE3	2.04	0.40
1:h:477:TRP:HH2	1:m:630:PRO:O	2.04	0.40
1:h:485:GLN:NE2	1:h:506:THR:HG21	2.37	0.40
1:k:489:SER:HB2	1:k:532:LYS:HG2	2.04	0.40
1:o:241:THR:HG21	1:o:290:HIS:O	2.21	0.40
1:q:241:THR:HG21	1:q:290:HIS:O	2.21	0.40
1:s:256:LEU:HD11	1:s:258:LYS:HE3	2.03	0.40
1:t:509:HIS:ND1	1:t:514:ASP:OD1	2.40	0.40
1:u:274:GLY:HA3	1:u:378:LEU:HD23	2.03	0.40
1:u:485:GLN:NE2	1:u:506:THR:HG21	2.37	0.40
1:v:274:GLY:HA3	1:v:378:LEU:HD23	2.03	0.40
1:v:485:GLN:NE2	1:v:506:THR:HG21	2.37	0.40
1:w:241:THR:HG21	1:w:290:HIS:O	2.21	0.40
1:w:345:ASP:O	1:w:346:SER:OG	2.35	0.40
1:x:485:GLN:NE2	1:x:506:THR:HG21	2.37	0.40
1:x:489:SER:HB2	1:x:532:LYS:HG2	2.04	0.40
1:1:234:TRP:NE1	1:1:298[A]:ARG:HD2	2.34	0.40
1:2:483:TYR:OH	1:2:507:LYS:O	2.39	0.40
1:3:483:TYR:OH	1:3:507:LYS:O	2.39	0.40
1:5:341:GLN:HE21	1:5:649:LYS:HD3	1.85	0.40
1:7:241:THR:HG21	1:7:290:HIS:O	2.21	0.40
1:A:398:PHE:CD1	1:f:692:LYS:HE2	2.56	0.40
1:A:489:SER:HB2	1:A:532:LYS:HG2	2.04	0.40
1:B:474:SER:CB	1:U:634:MET:HE2	2.52	0.40
1:C:512:GLY:HA3	1:t:527:LYS:HE3	2.03	0.40
1:C:692:LYS:HE2	1:Y:398:PHE:CE1	2.56	0.40
1:D:404:ARG:H	1:D:407:ASN:ND2	2.16	0.40
1:H:256:LEU:HD11	1:H:258:LYS:HE3	2.03	0.40
1:H:512:GLY:HA3	1:T:527:LYS:HE3	2.03	0.40
1:H:597:THR:HG21	1:T:598:GLN:OE1	2.22	0.40
1:I:256:LEU:HD11	1:I:258:LYS:HE3	2.03	0.40
1:K:223:ASN:N	1:3:404:ARG:HD2	2.36	0.40
1:L:382:ASN:HD21	1:R:529:ASP:CG	2.29	0.40
1:L:398:PHE:CE1	1:R:692:LYS:HE2	2.56	0.40
1:L:597:THR:HG21	1:R:598:GLN:OE1	2.21	0.40
1:L:614:GLN:HE22	1:L:725:PRO:HA	1.85	0.40
1:N:589:GLN:HA	1:w:496:ASN:HD22	1.85	0.40
1:O:274:GLY:HA3	1:O:378:LEU:HD23	2.03	0.40
1:O:614:GLN:HE22	1:O:725:PRO:HA	1.85	0.40
1:R:241:THR:HG21	1:R:290:HIS:O	2.21	0.40
1:S:241:THR:HG21	1:S:290:HIS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:288:HIS:ND1	1:X:364:PRO:HB3	2.34	0.40
1:Z:301:ASN:HB3	1:Z:699:GLN:NE2	2.36	0.40
1:b:241:THR:HG21	1:b:290:HIS:O	2.21	0.40
1:b:256:LEU:HD11	1:b:258:LYS:HE3	2.03	0.40
1:d:241:THR:HG21	1:d:290:HIS:O	2.21	0.40
1:d:511:ASN:ND2	1:v:566:ARG:HD3	2.36	0.40
1:e:234:TRP:CG	1:e:298[B]:ARG:NE	2.89	0.40
1:f:256:LEU:HD11	1:f:258:LYS:HE3	2.03	0.40
1:i:223:ASN:N	1:w:404:ARG:HD2	2.37	0.40
1:i:234:TRP:CE3	1:i:298[B]:ARG:HD3	2.57	0.40
1:i:485:GLN:NE2	1:i:506:THR:HG21	2.37	0.40
1:j:477:TRP:HH2	1:o:630:PRO:O	2.04	0.40
1:k:295:ASP:HA	1:k:298[A]:ARG:NH1	2.37	0.40
1:k:404:ARG:H	1:k:407:ASN:ND2	2.15	0.40
1:l:274:GLY:HA3	1:l:378:LEU:HD23	2.03	0.40
1:l:692:LYS:HE2	1:u:398:PHE:CE1	2.56	0.40
1:n:241:THR:HG21	1:n:290:HIS:O	2.21	0.40
1:n:299:LEU:HD11	1:n:306:PHE:CD2	2.56	0.40
1:q:341:GLN:HE21	1:q:649:LYS:HD3	1.85	0.40
1:u:256:LEU:HD11	1:u:258:LYS:HE3	2.03	0.40
1:u:489:SER:HB2	1:u:532:LYS:HG2	2.04	0.40
1:v:489:SER:HB2	1:v:532:LYS:HG2	2.04	0.40
1:w:256:LEU:HD11	1:w:258:LYS:HE3	2.03	0.40
1:w:485:GLN:NE2	1:w:506:THR:HG21	2.37	0.40
1:z:614:GLN:HE22	1:z:725:PRO:HA	1.85	0.40
1:6:485:GLN:NE2	1:6:506:THR:HG21	2.37	0.40
1:8:301:ASN:HB3	1:8:699:GLN:NE2	2.36	0.40
1:B:435:ASN:HB3	1:U:376:GLY:O	2.22	0.40
1:C:566:ARG:HD3	1:Y:511:ASN:ND2	2.36	0.40
1:D:509:HIS:NE2	1:x:574:GLU:OE1	2.54	0.40
1:E:241:THR:HG21	1:E:290:HIS:O	2.21	0.40
1:E:485:GLN:NE2	1:E:506:THR:HG21	2.37	0.40
1:H:284:PHE:O	1:H:284:PHE:CD1	2.73	0.40
1:H:614:GLN:HE22	1:H:725:PRO:HA	1.85	0.40
1:I:241:THR:HG21	1:I:290:HIS:O	2.21	0.40
1:J:299:LEU:HD11	1:J:306:PHE:CD2	2.56	0.40
1:K:512:GLY:HA3	1:X:527:LYS:HE3	2.04	0.40
1:L:256:LEU:HD11	1:L:258:LYS:HE3	2.03	0.40
1:L:512:GLY:HA3	1:R:527:LYS:HE3	2.03	0.40
1:L:574:GLU:OE1	1:r:509:HIS:NE2	2.55	0.40
1:M:404:ARG:H	1:M:407:ASN:ND2	2.16	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:689:GLU:OE2	1:R:298[B]:ARG:NH1	2.54	0.40
1:N:234:TRP:NE1	1:N:298[A]:ARG:HD2	2.35	0.40
1:N:485:GLN:NE2	1:N:506:THR:HG21	2.37	0.40
1:N:511:ASN:ND2	1:V:566:ARG:HD3	2.36	0.40
1:Q:450:THR:HG1	1:Q:461:GLN:HE22	1.66	0.40
1:W:485:GLN:NE2	1:W:506:THR:HG21	2.37	0.40
1:Y:241:THR:HG21	1:Y:290:HIS:O	2.21	0.40
1:c:299:LEU:HD11	1:c:306:PHE:CD2	2.56	0.40
1:d:341:GLN:HE21	1:d:649:LYS:HD3	1.85	0.40
1:e:274:GLY:HA3	1:e:378:LEU:HD23	2.03	0.40
1:f:223:ASN:N	1:k:404:ARG:HD2	2.36	0.40
1:f:241:THR:HG21	1:f:290:HIS:O	2.21	0.40
1:f:398:PHE:CE1	1:n:692:LYS:HE2	2.57	0.40
1:f:485:GLN:NE2	1:f:506:THR:HG21	2.37	0.40
1:f:509:HIS:NE2	1:n:574:GLU:OE1	2.54	0.40
1:g:470:ILE:O	1:g:475:ARG:NH2	2.47	0.40
1:i:483:TYR:OH	1:i:507:LYS:O	2.39	0.40
1:k:485:GLN:NE2	1:k:506:THR:HG21	2.37	0.40
1:p:404:ARG:H	1:p:407:ASN:ND2	2.15	0.40
1:q:527:LYS:HE3	1:z:512:GLY:HA3	2.03	0.40
1:r:241:THR:HG21	1:r:290:HIS:O	2.21	0.40
1:s:509:HIS:ND1	1:s:514:ASP:OD1	2.40	0.40
1:u:241:THR:HG21	1:u:290:HIS:O	2.21	0.40
1:w:234:TRP:CD2	1:w:298[A]:ARG:HD2	2.56	0.40
1:w:489:SER:HB2	1:w:532:LYS:HG2	2.04	0.40
1:z:256:LEU:HD11	1:z:258:LYS:HE3	2.03	0.40
1:1:274:GLY:HA3	1:1:378:LEU:HD23	2.03	0.40
1:3:489:SER:HB2	1:3:532:LYS:HG2	2.04	0.40
1:3:614:GLN:HE22	1:3:725:PRO:HA	1.85	0.40
1:4:485:GLN:NE2	1:4:506:THR:HG21	2.37	0.40
1:5:256:LEU:HD11	1:5:258:LYS:HE3	2.03	0.40
1:5:284:PHE:O	1:5:284:PHE:CD1	2.74	0.40
1:6:295:ASP:HA	1:6:298[A]:ARG:NH1	2.37	0.40
1:6:365:PHE:HA	1:6:366:PRO:HD3	1.94	0.40
1:B:241:THR:HG21	1:B:290:HIS:O	2.21	0.40
1:B:274:GLY:HA3	1:B:378:LEU:HD23	2.03	0.40
1:B:654:PRO:HG3	1:G:369:VAL:HG11	2.04	0.40
1:C:489:SER:HB2	1:C:532:LYS:HG2	2.04	0.40
1:D:692:LYS:HE2	1:8:398:PHE:CD1	2.56	0.40
1:E:489:SER:HB2	1:E:532:LYS:HG2	2.04	0.40
1:G:512:GLY:HA3	1:7:527:LYS:HE3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:241:THR:HG21	1:H:290:HIS:O	2.21	0.40
1:H:345:ASP:O	1:H:346:SER:OG	2.35	0.40
1:H:398:PHE:CD1	1:T:692:LYS:HE2	2.56	0.40
1:I:489:SER:HB2	1:I:532:LYS:HG2	2.04	0.40
1:J:241:THR:HG21	1:J:290:HIS:O	2.21	0.40
1:J:511:ASN:ND2	1:s:566:ARG:HD3	2.36	0.40
1:J:512:GLY:HA3	1:s:527:LYS:HE3	2.03	0.40
1:K:241:THR:HG21	1:K:290:HIS:O	2.21	0.40
1:L:404:ARG:HD2	1:M:223:ASN:N	2.37	0.40
1:L:509:HIS:ND1	1:L:514:ASP:OD1	2.40	0.40
1:M:628:PHE:CZ	1:M:629[B]:HIS:CD2	3.10	0.40
1:N:483:TYR:OH	1:N:507:LYS:O	2.39	0.40
1:Q:630:PRO:O	1:Z:477:TRP:HH2	2.05	0.40
1:S:225:SER:HG	1:S:317:ASN:H	1.65	0.40
1:T:241:THR:HG21	1:T:290:HIS:O	2.21	0.40
1:T:256:LEU:HD11	1:T:258:LYS:HE3	2.03	0.40
1:V:301:ASN:HB3	1:V:699:GLN:NE2	2.36	0.40
1:V:404:ARG:H	1:V:407:ASN:ND2	2.16	0.40
1:V:489:SER:HB2	1:V:532:LYS:HG2	2.04	0.40
1:W:692:LYS:HE2	1:l:398:PHE:CD1	2.56	0.40
1:X:341:GLN:HE21	1:X:649:LYS:HD3	1.85	0.40
1:Y:485:GLN:NE2	1:Y:506:THR:HG21	2.37	0.40
1:Z:299:LEU:HD11	1:Z:306:PHE:CD2	2.56	0.40
1:Z:300:ILE:HD13	1:Z:300:ILE:HG21	1.91	0.40
1:a:241:THR:HG21	1:a:290:HIS:O	2.21	0.40
1:b:485:GLN:NE2	1:b:506:THR:HG21	2.37	0.40
1:c:274:GLY:HA3	1:c:378:LEU:HD23	2.03	0.40
1:d:299:LEU:HD11	1:d:306:PHE:CD2	2.56	0.40
1:g:416:GLU:OE2	1:g:640:LYS:N	2.48	0.40
1:g:489:SER:HB2	1:g:532:LYS:HG2	2.04	0.40
1:h:404:ARG:H	1:h:407:ASN:ND2	2.16	0.40
1:h:589:GLN:HA	1:m:496:ASN:HD22	1.85	0.40
1:i:416:GLU:OE2	1:i:640:LYS:N	2.48	0.40
1:j:527:LYS:HE3	1:o:512:GLY:HA3	2.03	0.40
1:k:241:THR:HG21	1:k:290:HIS:O	2.21	0.40
1:m:256:LEU:HD11	1:m:258:LYS:HE3	2.03	0.40
1:m:365:PHE:HA	1:m:366:PRO:HD3	1.94	0.40
1:m:416:GLU:OE2	1:m:640:LYS:N	2.48	0.40
1:m:692:LYS:HE2	1:5:398:PHE:CE1	2.56	0.40
1:n:341:GLN:HE21	1:n:649:LYS:HD3	1.85	0.40
1:o:299:LEU:HD11	1:o:306:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:341:GLN:HE21	1:o:649:LYS:HD3	1.85	0.40
1:p:489:SER:HB2	1:p:532:LYS:HG2	2.04	0.40
1:q:589:GLN:HA	1:z:496:ASN:HD22	1.84	0.40
1:x:398:PHE:CE1	1:8:692:LYS:HE2	2.56	0.40
1:1:241:THR:HG21	1:1:290:HIS:O	2.21	0.40
1:2:299:LEU:HD11	1:2:306:PHE:CD2	2.56	0.40
1:2:489:SER:HB2	1:2:532:LYS:HG2	2.04	0.40
1:5:241:THR:HG21	1:5:290:HIS:O	2.21	0.40
1:7:485:GLN:NE2	1:7:506:THR:HG21	2.37	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	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	2	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	3	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	4	520/735 (71%)	492 (95%)	26 (5%)	2 (0%)	30	54
1	5	520/735 (71%)	492 (95%)	24 (5%)	4 (1%)	16	36
1	6	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	7	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	8	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	A	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	B	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	C	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	D	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	E	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	G	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	H	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	I	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	J	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	K	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	L	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	M	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	N	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	O	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	P	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	Q	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	R	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	S	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	T	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	U	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	V	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	W	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	X	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	Y	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	Z	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	a	520/735 (71%)	491 (94%)	27 (5%)	2 (0%)	30	54
1	b	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	c	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	d	520/735 (71%)	491 (94%)	27 (5%)	2 (0%)	30	54
1	e	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	f	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	g	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	h	520/735 (71%)	492 (95%)	26 (5%)	2 (0%)	30	54
1	i	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	j	520/735 (71%)	492 (95%)	24 (5%)	4 (1%)	16	36

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	k	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	l	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	m	520/735 (71%)	492 (95%)	26 (5%)	2 (0%)	30	54
1	n	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	o	520/735 (71%)	492 (95%)	26 (5%)	2 (0%)	30	54
1	p	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	q	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	r	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	s	520/735 (71%)	492 (95%)	26 (5%)	2 (0%)	30	54
1	t	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	u	520/735 (71%)	492 (95%)	26 (5%)	2 (0%)	30	54
1	v	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	w	520/735 (71%)	490 (94%)	28 (5%)	2 (0%)	30	54
1	x	520/735 (71%)	492 (95%)	26 (5%)	2 (0%)	30	54
1	y	520/735 (71%)	490 (94%)	26 (5%)	4 (1%)	16	36
1	z	520/735 (71%)	492 (95%)	26 (5%)	2 (0%)	30	54
All	All	31200/44100 (71%)	29422 (94%)	1622 (5%)	156 (0%)	31	49

All (156) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	470	ILE
1	B	470	ILE
1	C	470	ILE
1	D	470	ILE
1	E	470	ILE
1	F	470	ILE
1	G	470	ILE
1	H	470	ILE
1	I	470	ILE
1	J	470	ILE
1	K	470	ILE
1	L	470	ILE
1	M	470	ILE
1	N	470	ILE
1	O	470	ILE

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Mol	Chain	Res	Type
1	P	470	ILE
1	Q	470	ILE
1	R	470	ILE
1	S	470	ILE
1	T	470	ILE
1	U	470	ILE
1	V	470	ILE
1	W	470	ILE
1	X	470	ILE
1	Y	470	ILE
1	Z	470	ILE
1	a	470	ILE
1	b	470	ILE
1	c	470	ILE
1	d	470	ILE
1	e	470	ILE
1	f	470	ILE
1	g	470	ILE
1	h	470	ILE
1	i	470	ILE
1	j	470	ILE
1	k	470	ILE
1	l	470	ILE
1	m	470	ILE
1	n	470	ILE
1	o	470	ILE
1	p	470	ILE
1	q	470	ILE
1	r	470	ILE
1	s	470	ILE
1	t	470	ILE
1	u	470	ILE
1	v	470	ILE
1	w	470	ILE
1	x	470	ILE
1	y	470	ILE
1	z	470	ILE
1	1	470	ILE
1	2	470	ILE
1	3	470	ILE
1	4	470	ILE
1	5	470	ILE

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Mol	Chain	Res	Type
1	6	470	ILE
1	7	470	ILE
1	8	470	ILE
1	b	629[A]	HIS
1	b	629[B]	HIS
1	e	629[A]	HIS
1	e	629[B]	HIS
1	j	629[A]	HIS
1	j	629[B]	HIS
1	5	629[A]	HIS
1	5	629[B]	HIS
1	N	629[A]	HIS
1	N	629[B]	HIS
1	Y	629[A]	HIS
1	Y	629[B]	HIS
1	k	629[A]	HIS
1	k	629[B]	HIS
1	l	629[A]	HIS
1	l	629[B]	HIS
1	q	629[A]	HIS
1	q	629[B]	HIS
1	v	629[A]	HIS
1	v	629[B]	HIS
1	y	629[A]	HIS
1	y	629[B]	HIS
1	1	629[A]	HIS
1	1	629[B]	HIS
1	6	629[A]	HIS
1	6	629[B]	HIS
1	8	629[A]	HIS
1	8	629[B]	HIS
1	g	629[A]	HIS
1	g	629[B]	HIS
1	n	629[A]	HIS
1	n	629[B]	HIS
1	p	629[A]	HIS
1	p	629[B]	HIS
1	3	629[A]	HIS
1	3	629[B]	HIS
1	A	221	VAL
1	B	221	VAL
1	C	221	VAL

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Mol	Chain	Res	Type
1	D	221	VAL
1	E	221	VAL
1	F	221	VAL
1	G	221	VAL
1	H	221	VAL
1	I	221	VAL
1	J	221	VAL
1	K	221	VAL
1	L	221	VAL
1	M	221	VAL
1	N	221	VAL
1	O	221	VAL
1	P	221	VAL
1	Q	221	VAL
1	R	221	VAL
1	S	221	VAL
1	T	221	VAL
1	U	221	VAL
1	V	221	VAL
1	W	221	VAL
1	X	221	VAL
1	Y	221	VAL
1	Z	221	VAL
1	a	221	VAL
1	b	221	VAL
1	c	221	VAL
1	d	221	VAL
1	e	221	VAL
1	f	221	VAL
1	g	221	VAL
1	h	221	VAL
1	i	221	VAL
1	j	221	VAL
1	k	221	VAL
1	l	221	VAL
1	m	221	VAL
1	n	221	VAL
1	o	221	VAL
1	p	221	VAL
1	q	221	VAL
1	r	221	VAL
1	s	221	VAL

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Mol	Chain	Res	Type
1	t	221	VAL
1	u	221	VAL
1	v	221	VAL
1	w	221	VAL
1	x	221	VAL
1	y	221	VAL
1	z	221	VAL
1	1	221	VAL
1	2	221	VAL
1	3	221	VAL
1	4	221	VAL
1	5	221	VAL
1	6	221	VAL
1	7	221	VAL
1	8	221	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	462/630 (73%)	462 (100%)	0	100	100
1	2	462/630 (73%)	462 (100%)	0	100	100
1	3	462/630 (73%)	462 (100%)	0	100	100
1	4	462/630 (73%)	462 (100%)	0	100	100
1	5	462/630 (73%)	462 (100%)	0	100	100
1	6	462/630 (73%)	460 (100%)	2 (0%)	84	92
1	7	462/630 (73%)	462 (100%)	0	100	100
1	8	462/630 (73%)	462 (100%)	0	100	100
1	A	462/630 (73%)	462 (100%)	0	100	100
1	B	462/630 (73%)	462 (100%)	0	100	100
1	C	462/630 (73%)	462 (100%)	0	100	100
1	D	462/630 (73%)	462 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	E	462/630 (73%)	462 (100%)	0	100	100
1	F	462/630 (73%)	462 (100%)	0	100	100
1	G	462/630 (73%)	462 (100%)	0	100	100
1	H	462/630 (73%)	462 (100%)	0	100	100
1	I	462/630 (73%)	462 (100%)	0	100	100
1	J	462/630 (73%)	462 (100%)	0	100	100
1	K	462/630 (73%)	462 (100%)	0	100	100
1	L	462/630 (73%)	462 (100%)	0	100	100
1	M	462/630 (73%)	462 (100%)	0	100	100
1	N	462/630 (73%)	462 (100%)	0	100	100
1	O	462/630 (73%)	462 (100%)	0	100	100
1	P	462/630 (73%)	462 (100%)	0	100	100
1	Q	462/630 (73%)	462 (100%)	0	100	100
1	R	462/630 (73%)	462 (100%)	0	100	100
1	S	462/630 (73%)	462 (100%)	0	100	100
1	T	462/630 (73%)	462 (100%)	0	100	100
1	U	462/630 (73%)	462 (100%)	0	100	100
1	V	462/630 (73%)	462 (100%)	0	100	100
1	W	462/630 (73%)	462 (100%)	0	100	100
1	X	462/630 (73%)	462 (100%)	0	100	100
1	Y	462/630 (73%)	462 (100%)	0	100	100
1	Z	462/630 (73%)	462 (100%)	0	100	100
1	a	462/630 (73%)	462 (100%)	0	100	100
1	b	462/630 (73%)	462 (100%)	0	100	100
1	c	462/630 (73%)	462 (100%)	0	100	100
1	d	462/630 (73%)	462 (100%)	0	100	100
1	e	462/630 (73%)	462 (100%)	0	100	100
1	f	462/630 (73%)	462 (100%)	0	100	100
1	g	462/630 (73%)	462 (100%)	0	100	100
1	h	462/630 (73%)	462 (100%)	0	100	100
1	i	462/630 (73%)	462 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	j	462/630 (73%)	462 (100%)	0	100	100
1	k	462/630 (73%)	460 (100%)	2 (0%)	84	92
1	l	462/630 (73%)	462 (100%)	0	100	100
1	m	462/630 (73%)	462 (100%)	0	100	100
1	n	462/630 (73%)	462 (100%)	0	100	100
1	o	462/630 (73%)	462 (100%)	0	100	100
1	p	462/630 (73%)	462 (100%)	0	100	100
1	q	462/630 (73%)	462 (100%)	0	100	100
1	r	462/630 (73%)	462 (100%)	0	100	100
1	s	462/630 (73%)	462 (100%)	0	100	100
1	t	462/630 (73%)	462 (100%)	0	100	100
1	u	462/630 (73%)	462 (100%)	0	100	100
1	v	462/630 (73%)	462 (100%)	0	100	100
1	w	462/630 (73%)	462 (100%)	0	100	100
1	x	462/630 (73%)	462 (100%)	0	100	100
1	y	462/630 (73%)	462 (100%)	0	100	100
1	z	462/630 (73%)	462 (100%)	0	100	100
All	All	27720/37800 (73%)	27716 (100%)	4 (0%)	100	100

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	k	298[A]	ARG
1	k	298[B]	ARG
1	6	298[A]	ARG
1	6	298[B]	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (927) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	290	HIS
1	A	302	ASN
1	A	334	ASN
1	A	341	GLN
1	A	374	GLN

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Mol	Chain	Res	Type
1	A	407	ASN
1	A	426	HIS
1	A	428	GLN
1	A	457	GLN
1	A	485	GLN
1	A	584	GLN
1	A	627	HIS
1	A	645	GLN
1	A	699	GLN
1	A	709	ASN
1	B	253	ASN
1	B	290	HIS
1	B	302	ASN
1	B	334	ASN
1	B	341	GLN
1	B	374	GLN
1	B	407	ASN
1	B	426	HIS
1	B	428	GLN
1	B	485	GLN
1	B	584	GLN
1	B	627	HIS
1	B	645	GLN
1	B	699	GLN
1	B	709	ASN
1	C	253	ASN
1	C	290	HIS
1	C	302	ASN
1	C	334	ASN
1	C	374	GLN
1	C	407	ASN
1	C	426	HIS
1	C	428	GLN
1	C	457	GLN
1	C	485	GLN
1	C	584	GLN
1	C	627	HIS
1	C	645	GLN
1	C	699	GLN
1	C	709	ASN
1	C	717	ASN
1	D	290	HIS

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Mol	Chain	Res	Type
1	D	302	ASN
1	D	334	ASN
1	D	341	GLN
1	D	374	GLN
1	D	407	ASN
1	D	426	HIS
1	D	428	GLN
1	D	457	GLN
1	D	485	GLN
1	D	584	GLN
1	D	627	HIS
1	D	645	GLN
1	D	699	GLN
1	D	709	ASN
1	D	717	ASN
1	E	253	ASN
1	E	290	HIS
1	E	302	ASN
1	E	334	ASN
1	E	341	GLN
1	E	374	GLN
1	E	407	ASN
1	E	426	HIS
1	E	428	GLN
1	E	457	GLN
1	E	485	GLN
1	E	584	GLN
1	E	627	HIS
1	E	645	GLN
1	E	699	GLN
1	E	709	ASN
1	F	253	ASN
1	F	290	HIS
1	F	302	ASN
1	F	334	ASN
1	F	341	GLN
1	F	374	GLN
1	F	407	ASN
1	F	426	HIS
1	F	428	GLN
1	F	457	GLN
1	F	485	GLN

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Mol	Chain	Res	Type
1	F	584	GLN
1	F	627	HIS
1	F	645	GLN
1	F	699	GLN
1	F	709	ASN
1	F	717	ASN
1	G	253	ASN
1	G	290	HIS
1	G	302	ASN
1	G	334	ASN
1	G	374	GLN
1	G	407	ASN
1	G	426	HIS
1	G	457	GLN
1	G	485	GLN
1	G	584	GLN
1	G	627	HIS
1	G	645	GLN
1	G	699	GLN
1	G	709	ASN
1	G	717	ASN
1	H	253	ASN
1	H	290	HIS
1	H	302	ASN
1	H	334	ASN
1	H	341	GLN
1	H	374	GLN
1	H	407	ASN
1	H	426	HIS
1	H	428	GLN
1	H	457	GLN
1	H	485	GLN
1	H	584	GLN
1	H	627	HIS
1	H	645	GLN
1	H	699	GLN
1	H	709	ASN
1	H	717	ASN
1	I	253	ASN
1	I	290	HIS
1	I	302	ASN
1	I	334	ASN

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Mol	Chain	Res	Type
1	I	374	GLN
1	I	407	ASN
1	I	426	HIS
1	I	428	GLN
1	I	457	GLN
1	I	485	GLN
1	I	584	GLN
1	I	627	HIS
1	I	645	GLN
1	I	699	GLN
1	I	709	ASN
1	I	717	ASN
1	J	253	ASN
1	J	290	HIS
1	J	302	ASN
1	J	334	ASN
1	J	374	GLN
1	J	407	ASN
1	J	426	HIS
1	J	428	GLN
1	J	457	GLN
1	J	485	GLN
1	J	584	GLN
1	J	627	HIS
1	J	645	GLN
1	J	699	GLN
1	J	709	ASN
1	J	717	ASN
1	K	290	HIS
1	K	302	ASN
1	K	334	ASN
1	K	374	GLN
1	K	407	ASN
1	K	426	HIS
1	K	428	GLN
1	K	457	GLN
1	K	485	GLN
1	K	584	GLN
1	K	627	HIS
1	K	645	GLN
1	K	699	GLN
1	K	709	ASN

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Mol	Chain	Res	Type
1	L	290	HIS
1	L	302	ASN
1	L	334	ASN
1	L	374	GLN
1	L	407	ASN
1	L	426	HIS
1	L	428	GLN
1	L	457	GLN
1	L	485	GLN
1	L	584	GLN
1	L	627	HIS
1	L	645	GLN
1	L	699	GLN
1	L	709	ASN
1	L	717	ASN
1	M	253	ASN
1	M	290	HIS
1	M	302	ASN
1	M	334	ASN
1	M	341	GLN
1	M	374	GLN
1	M	407	ASN
1	M	426	HIS
1	M	428	GLN
1	M	457	GLN
1	M	485	GLN
1	M	584	GLN
1	M	627	HIS
1	M	645	GLN
1	M	699	GLN
1	M	709	ASN
1	N	290	HIS
1	N	302	ASN
1	N	334	ASN
1	N	341	GLN
1	N	407	ASN
1	N	426	HIS
1	N	428	GLN
1	N	457	GLN
1	N	485	GLN
1	N	584	GLN
1	N	627	HIS

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Mol	Chain	Res	Type
1	N	645	GLN
1	N	699	GLN
1	N	709	ASN
1	N	717	ASN
1	O	253	ASN
1	O	290	HIS
1	O	302	ASN
1	O	334	ASN
1	O	341	GLN
1	O	374	GLN
1	O	407	ASN
1	O	426	HIS
1	O	428	GLN
1	O	457	GLN
1	O	485	GLN
1	O	584	GLN
1	O	627	HIS
1	O	645	GLN
1	O	699	GLN
1	O	709	ASN
1	O	717	ASN
1	P	253	ASN
1	P	290	HIS
1	P	302	ASN
1	P	334	ASN
1	P	341	GLN
1	P	374	GLN
1	P	407	ASN
1	P	426	HIS
1	P	428	GLN
1	P	485	GLN
1	P	584	GLN
1	P	627	HIS
1	P	645	GLN
1	P	699	GLN
1	P	709	ASN
1	P	717	ASN
1	Q	290	HIS
1	Q	302	ASN
1	Q	334	ASN
1	Q	374	GLN
1	Q	407	ASN

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Mol	Chain	Res	Type
1	Q	426	HIS
1	Q	428	GLN
1	Q	457	GLN
1	Q	485	GLN
1	Q	584	GLN
1	Q	627	HIS
1	Q	645	GLN
1	Q	699	GLN
1	Q	709	ASN
1	Q	717	ASN
1	R	253	ASN
1	R	290	HIS
1	R	302	ASN
1	R	334	ASN
1	R	341	GLN
1	R	374	GLN
1	R	407	ASN
1	R	426	HIS
1	R	428	GLN
1	R	457	GLN
1	R	485	GLN
1	R	584	GLN
1	R	627	HIS
1	R	645	GLN
1	R	699	GLN
1	R	709	ASN
1	S	253	ASN
1	S	290	HIS
1	S	302	ASN
1	S	334	ASN
1	S	374	GLN
1	S	407	ASN
1	S	426	HIS
1	S	428	GLN
1	S	457	GLN
1	S	485	GLN
1	S	584	GLN
1	S	627	HIS
1	S	645	GLN
1	S	699	GLN
1	S	709	ASN
1	S	717	ASN

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Mol	Chain	Res	Type
1	T	253	ASN
1	T	290	HIS
1	T	302	ASN
1	T	334	ASN
1	T	374	GLN
1	T	407	ASN
1	T	426	HIS
1	T	428	GLN
1	T	457	GLN
1	T	485	GLN
1	T	584	GLN
1	T	627	HIS
1	T	645	GLN
1	T	699	GLN
1	T	709	ASN
1	U	253	ASN
1	U	290	HIS
1	U	302	ASN
1	U	334	ASN
1	U	374	GLN
1	U	407	ASN
1	U	426	HIS
1	U	428	GLN
1	U	457	GLN
1	U	485	GLN
1	U	584	GLN
1	U	627	HIS
1	U	645	GLN
1	U	699	GLN
1	U	709	ASN
1	V	253	ASN
1	V	290	HIS
1	V	302	ASN
1	V	334	ASN
1	V	341	GLN
1	V	374	GLN
1	V	407	ASN
1	V	426	HIS
1	V	428	GLN
1	V	457	GLN
1	V	485	GLN
1	V	584	GLN

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Mol	Chain	Res	Type
1	V	627	HIS
1	V	645	GLN
1	V	699	GLN
1	V	709	ASN
1	V	717	ASN
1	W	290	HIS
1	W	302	ASN
1	W	334	ASN
1	W	374	GLN
1	W	407	ASN
1	W	426	HIS
1	W	428	GLN
1	W	457	GLN
1	W	485	GLN
1	W	584	GLN
1	W	627	HIS
1	W	645	GLN
1	W	699	GLN
1	W	709	ASN
1	X	290	HIS
1	X	302	ASN
1	X	334	ASN
1	X	407	ASN
1	X	426	HIS
1	X	428	GLN
1	X	457	GLN
1	X	485	GLN
1	X	584	GLN
1	X	627	HIS
1	X	645	GLN
1	X	699	GLN
1	X	709	ASN
1	X	717	ASN
1	Y	253	ASN
1	Y	290	HIS
1	Y	302	ASN
1	Y	334	ASN
1	Y	374	GLN
1	Y	407	ASN
1	Y	426	HIS
1	Y	428	GLN
1	Y	457	GLN

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Mol	Chain	Res	Type
1	Y	485	GLN
1	Y	584	GLN
1	Y	627	HIS
1	Y	645	GLN
1	Y	699	GLN
1	Y	709	ASN
1	Z	253	ASN
1	Z	290	HIS
1	Z	302	ASN
1	Z	334	ASN
1	Z	374	GLN
1	Z	407	ASN
1	Z	426	HIS
1	Z	428	GLN
1	Z	457	GLN
1	Z	485	GLN
1	Z	584	GLN
1	Z	627	HIS
1	Z	645	GLN
1	Z	699	GLN
1	Z	709	ASN
1	Z	717	ASN
1	a	290	HIS
1	a	302	ASN
1	a	334	ASN
1	a	407	ASN
1	a	426	HIS
1	a	428	GLN
1	a	457	GLN
1	a	485	GLN
1	a	584	GLN
1	a	627	HIS
1	a	645	GLN
1	a	699	GLN
1	a	709	ASN
1	a	717	ASN
1	b	253	ASN
1	b	302	ASN
1	b	334	ASN
1	b	341	GLN
1	b	374	GLN
1	b	407	ASN

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Mol	Chain	Res	Type
1	b	426	HIS
1	b	428	GLN
1	b	457	GLN
1	b	485	GLN
1	b	584	GLN
1	b	627	HIS
1	b	645	GLN
1	b	699	GLN
1	b	709	ASN
1	b	717	ASN
1	c	253	ASN
1	c	290	HIS
1	c	302	ASN
1	c	334	ASN
1	c	374	GLN
1	c	407	ASN
1	c	426	HIS
1	c	428	GLN
1	c	457	GLN
1	c	485	GLN
1	c	584	GLN
1	c	627	HIS
1	c	645	GLN
1	c	699	GLN
1	c	709	ASN
1	c	717	ASN
1	d	253	ASN
1	d	290	HIS
1	d	302	ASN
1	d	334	ASN
1	d	341	GLN
1	d	374	GLN
1	d	407	ASN
1	d	426	HIS
1	d	457	GLN
1	d	485	GLN
1	d	584	GLN
1	d	627	HIS
1	d	645	GLN
1	d	699	GLN
1	d	709	ASN
1	e	253	ASN

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Mol	Chain	Res	Type
1	e	290	HIS
1	e	302	ASN
1	e	334	ASN
1	e	374	GLN
1	e	407	ASN
1	e	426	HIS
1	e	428	GLN
1	e	457	GLN
1	e	485	GLN
1	e	584	GLN
1	e	627	HIS
1	e	645	GLN
1	e	699	GLN
1	e	709	ASN
1	e	717	ASN
1	f	253	ASN
1	f	290	HIS
1	f	302	ASN
1	f	334	ASN
1	f	341	GLN
1	f	374	GLN
1	f	407	ASN
1	f	426	HIS
1	f	428	GLN
1	f	457	GLN
1	f	485	GLN
1	f	584	GLN
1	f	627	HIS
1	f	645	GLN
1	f	699	GLN
1	f	709	ASN
1	f	717	ASN
1	g	253	ASN
1	g	290	HIS
1	g	302	ASN
1	g	334	ASN
1	g	374	GLN
1	g	407	ASN
1	g	426	HIS
1	g	428	GLN
1	g	457	GLN
1	g	485	GLN

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Mol	Chain	Res	Type
1	g	584	GLN
1	g	627	HIS
1	g	645	GLN
1	g	699	GLN
1	g	709	ASN
1	g	717	ASN
1	h	253	ASN
1	h	290	HIS
1	h	302	ASN
1	h	334	ASN
1	h	341	GLN
1	h	374	GLN
1	h	407	ASN
1	h	426	HIS
1	h	428	GLN
1	h	457	GLN
1	h	485	GLN
1	h	584	GLN
1	h	627	HIS
1	h	645	GLN
1	h	699	GLN
1	i	290	HIS
1	i	302	ASN
1	i	334	ASN
1	i	407	ASN
1	i	426	HIS
1	i	428	GLN
1	i	457	GLN
1	i	485	GLN
1	i	584	GLN
1	i	627	HIS
1	i	645	GLN
1	i	699	GLN
1	i	709	ASN
1	i	717	ASN
1	j	253	ASN
1	j	259	GLN
1	j	290	HIS
1	j	302	ASN
1	j	334	ASN
1	j	341	GLN
1	j	374	GLN

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Mol	Chain	Res	Type
1	j	407	ASN
1	j	426	HIS
1	j	428	GLN
1	j	485	GLN
1	j	584	GLN
1	j	627	HIS
1	j	645	GLN
1	j	699	GLN
1	j	709	ASN
1	j	717	ASN
1	k	290	HIS
1	k	302	ASN
1	k	334	ASN
1	k	341	GLN
1	k	374	GLN
1	k	407	ASN
1	k	426	HIS
1	k	428	GLN
1	k	457	GLN
1	k	485	GLN
1	k	584	GLN
1	k	627	HIS
1	k	645	GLN
1	k	699	GLN
1	l	253	ASN
1	l	259	GLN
1	l	290	HIS
1	l	302	ASN
1	l	334	ASN
1	l	341	GLN
1	l	374	GLN
1	l	407	ASN
1	l	426	HIS
1	l	428	GLN
1	l	457	GLN
1	l	485	GLN
1	l	584	GLN
1	l	627	HIS
1	l	645	GLN
1	l	699	GLN
1	l	709	ASN
1	l	717	ASN

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Mol	Chain	Res	Type
1	m	302	ASN
1	m	334	ASN
1	m	341	GLN
1	m	407	ASN
1	m	426	HIS
1	m	428	GLN
1	m	457	GLN
1	m	485	GLN
1	m	584	GLN
1	m	627	HIS
1	m	645	GLN
1	m	699	GLN
1	m	709	ASN
1	n	253	ASN
1	n	290	HIS
1	n	302	ASN
1	n	334	ASN
1	n	341	GLN
1	n	374	GLN
1	n	407	ASN
1	n	426	HIS
1	n	457	GLN
1	n	485	GLN
1	n	584	GLN
1	n	627	HIS
1	n	645	GLN
1	n	699	GLN
1	n	709	ASN
1	o	290	HIS
1	o	302	ASN
1	o	334	ASN
1	o	374	GLN
1	o	407	ASN
1	o	426	HIS
1	o	428	GLN
1	o	457	GLN
1	o	485	GLN
1	o	627	HIS
1	o	645	GLN
1	o	699	GLN
1	o	709	ASN
1	o	717	ASN

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Mol	Chain	Res	Type
1	p	253	ASN
1	p	290	HIS
1	p	302	ASN
1	p	334	ASN
1	p	374	GLN
1	p	407	ASN
1	p	426	HIS
1	p	457	GLN
1	p	485	GLN
1	p	584	GLN
1	p	627	HIS
1	p	645	GLN
1	p	699	GLN
1	p	709	ASN
1	p	717	ASN
1	q	253	ASN
1	q	290	HIS
1	q	302	ASN
1	q	334	ASN
1	q	341	GLN
1	q	374	GLN
1	q	407	ASN
1	q	426	HIS
1	q	428	GLN
1	q	457	GLN
1	q	485	GLN
1	q	584	GLN
1	q	627	HIS
1	q	645	GLN
1	q	699	GLN
1	q	709	ASN
1	r	253	ASN
1	r	290	HIS
1	r	302	ASN
1	r	334	ASN
1	r	374	GLN
1	r	407	ASN
1	r	426	HIS
1	r	428	GLN
1	r	457	GLN
1	r	485	GLN
1	r	584	GLN

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Mol	Chain	Res	Type
1	r	627	HIS
1	r	645	GLN
1	r	699	GLN
1	r	709	ASN
1	r	717	ASN
1	s	253	ASN
1	s	290	HIS
1	s	334	ASN
1	s	374	GLN
1	s	407	ASN
1	s	426	HIS
1	s	428	GLN
1	s	457	GLN
1	s	485	GLN
1	s	584	GLN
1	s	627	HIS
1	s	645	GLN
1	s	699	GLN
1	s	709	ASN
1	t	253	ASN
1	t	290	HIS
1	t	302	ASN
1	t	334	ASN
1	t	374	GLN
1	t	407	ASN
1	t	426	HIS
1	t	457	GLN
1	t	485	GLN
1	t	584	GLN
1	t	627	HIS
1	t	645	GLN
1	t	699	GLN
1	t	717	ASN
1	u	253	ASN
1	u	290	HIS
1	u	302	ASN
1	u	334	ASN
1	u	374	GLN
1	u	407	ASN
1	u	426	HIS
1	u	428	GLN
1	u	457	GLN

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Mol	Chain	Res	Type
1	u	485	GLN
1	u	584	GLN
1	u	627	HIS
1	u	645	GLN
1	u	699	GLN
1	u	717	ASN
1	v	290	HIS
1	v	302	ASN
1	v	334	ASN
1	v	374	GLN
1	v	407	ASN
1	v	426	HIS
1	v	428	GLN
1	v	457	GLN
1	v	485	GLN
1	v	584	GLN
1	v	627	HIS
1	v	645	GLN
1	v	699	GLN
1	v	709	ASN
1	w	253	ASN
1	w	290	HIS
1	w	302	ASN
1	w	334	ASN
1	w	341	GLN
1	w	374	GLN
1	w	407	ASN
1	w	426	HIS
1	w	457	GLN
1	w	485	GLN
1	w	584	GLN
1	w	627	HIS
1	w	645	GLN
1	w	699	GLN
1	w	709	ASN
1	w	717	ASN
1	x	290	HIS
1	x	302	ASN
1	x	334	ASN
1	x	374	GLN
1	x	407	ASN
1	x	426	HIS

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Mol	Chain	Res	Type
1	x	428	GLN
1	x	457	GLN
1	x	485	GLN
1	x	584	GLN
1	x	627	HIS
1	x	645	GLN
1	x	699	GLN
1	x	709	ASN
1	x	717	ASN
1	y	253	ASN
1	y	259	GLN
1	y	290	HIS
1	y	302	ASN
1	y	334	ASN
1	y	374	GLN
1	y	407	ASN
1	y	426	HIS
1	y	428	GLN
1	y	457	GLN
1	y	485	GLN
1	y	584	GLN
1	y	627	HIS
1	y	645	GLN
1	y	699	GLN
1	y	717	ASN
1	z	259	GLN
1	z	290	HIS
1	z	302	ASN
1	z	334	ASN
1	z	374	GLN
1	z	407	ASN
1	z	426	HIS
1	z	428	GLN
1	z	457	GLN
1	z	485	GLN
1	z	584	GLN
1	z	627	HIS
1	z	645	GLN
1	z	699	GLN
1	z	709	ASN
1	z	717	ASN
1	1	253	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	1	259	GLN
1	1	290	HIS
1	1	302	ASN
1	1	334	ASN
1	1	341	GLN
1	1	374	GLN
1	1	407	ASN
1	1	426	HIS
1	1	428	GLN
1	1	457	GLN
1	1	485	GLN
1	1	584	GLN
1	1	627	HIS
1	1	645	GLN
1	1	699	GLN
1	2	253	ASN
1	2	290	HIS
1	2	302	ASN
1	2	334	ASN
1	2	374	GLN
1	2	407	ASN
1	2	426	HIS
1	2	457	GLN
1	2	485	GLN
1	2	584	GLN
1	2	627	HIS
1	2	645	GLN
1	2	699	GLN
1	2	709	ASN
1	2	717	ASN
1	3	253	ASN
1	3	290	HIS
1	3	302	ASN
1	3	334	ASN
1	3	374	GLN
1	3	407	ASN
1	3	426	HIS
1	3	428	GLN
1	3	457	GLN
1	3	485	GLN
1	3	584	GLN
1	3	627	HIS

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Mol	Chain	Res	Type
1	3	645	GLN
1	3	699	GLN
1	3	709	ASN
1	3	717	ASN
1	4	259	GLN
1	4	290	HIS
1	4	302	ASN
1	4	334	ASN
1	4	374	GLN
1	4	407	ASN
1	4	426	HIS
1	4	428	GLN
1	4	457	GLN
1	4	485	GLN
1	4	627	HIS
1	4	645	GLN
1	4	699	GLN
1	4	709	ASN
1	4	717	ASN
1	5	253	ASN
1	5	290	HIS
1	5	302	ASN
1	5	334	ASN
1	5	341	GLN
1	5	374	GLN
1	5	407	ASN
1	5	426	HIS
1	5	428	GLN
1	5	457	GLN
1	5	485	GLN
1	5	584	GLN
1	5	627	HIS
1	5	645	GLN
1	5	699	GLN
1	5	709	ASN
1	5	717	ASN
1	6	290	HIS
1	6	302	ASN
1	6	334	ASN
1	6	374	GLN
1	6	407	ASN
1	6	426	HIS

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Mol	Chain	Res	Type
1	6	428	GLN
1	6	457	GLN
1	6	485	GLN
1	6	584	GLN
1	6	627	HIS
1	6	645	GLN
1	6	699	GLN
1	6	709	ASN
1	6	717	ASN
1	7	253	ASN
1	7	290	HIS
1	7	302	ASN
1	7	334	ASN
1	7	374	GLN
1	7	407	ASN
1	7	426	HIS
1	7	428	GLN
1	7	457	GLN
1	7	485	GLN
1	7	584	GLN
1	7	627	HIS
1	7	645	GLN
1	7	699	GLN
1	7	709	ASN
1	8	253	ASN
1	8	290	HIS
1	8	302	ASN
1	8	334	ASN
1	8	374	GLN
1	8	407	ASN
1	8	426	HIS
1	8	428	GLN
1	8	457	GLN
1	8	485	GLN
1	8	584	GLN
1	8	627	HIS
1	8	645	GLN
1	8	699	GLN
1	8	709	ASN
1	8	717	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

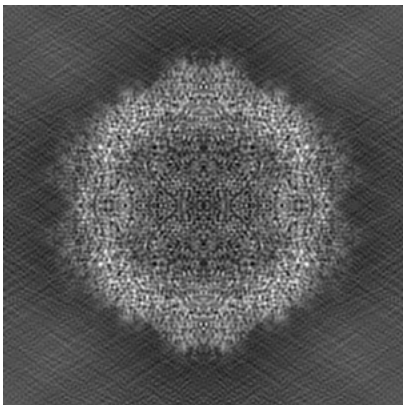
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-29600. These allow visual inspection of the internal detail of the map and identification of artifacts.

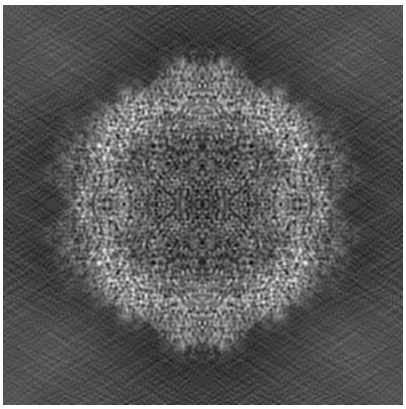
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

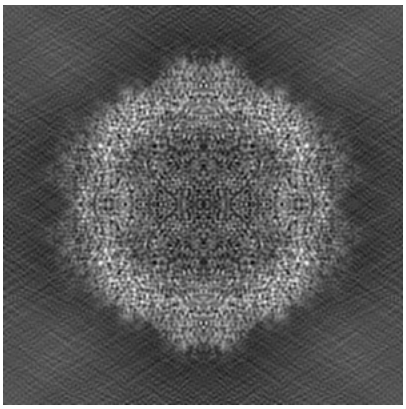
6.1.1 Primary map



X

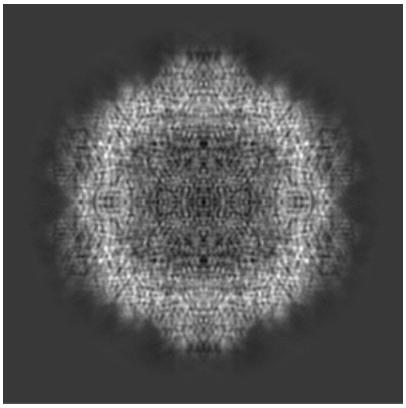


Y

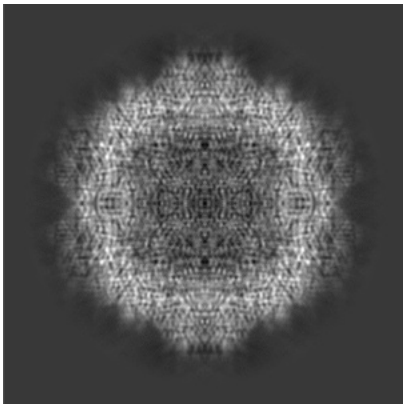


Z

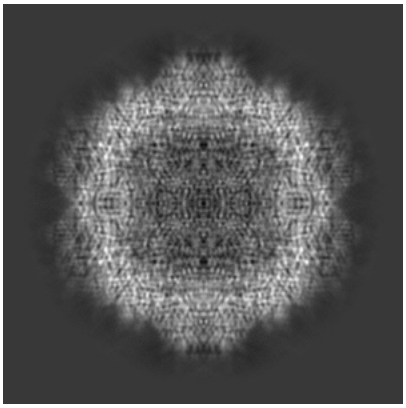
6.1.2 Raw map



X



Y

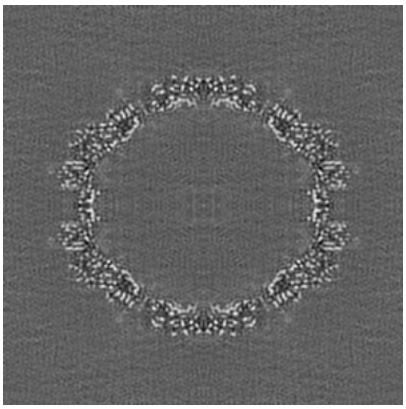


Z

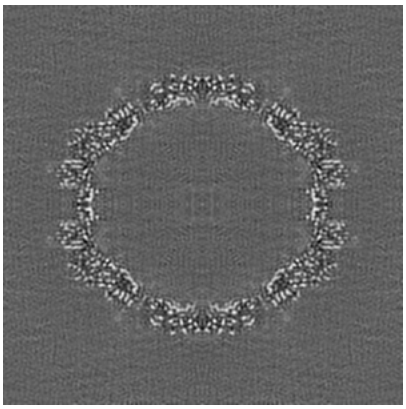
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

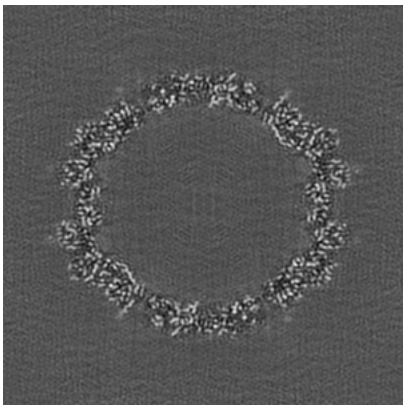
6.2.1 Primary map



X Index: 160

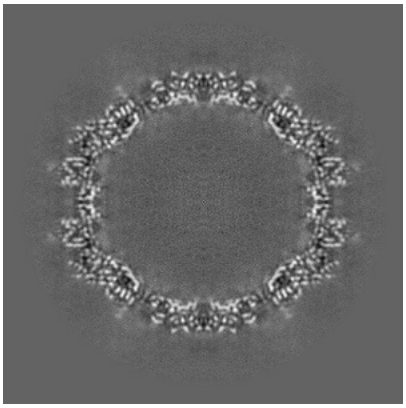


Y Index: 160

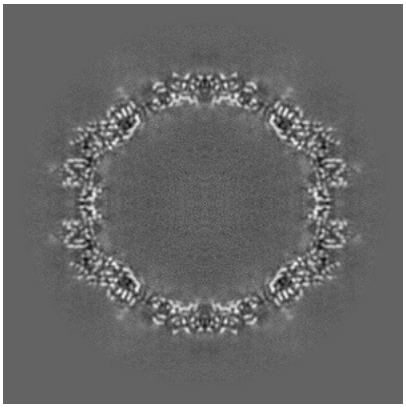


Z Index: 160

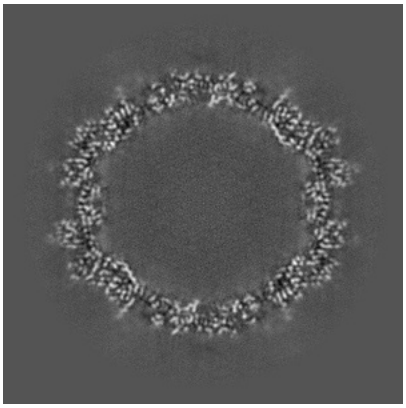
6.2.2 Raw map



X Index: 160



Y Index: 160

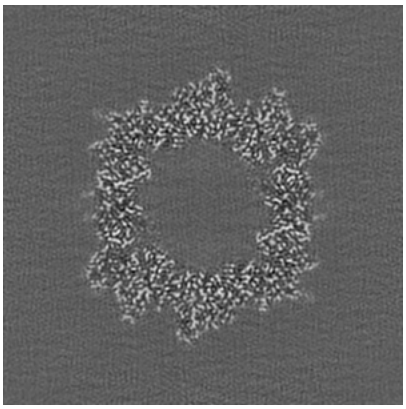


Z Index: 160

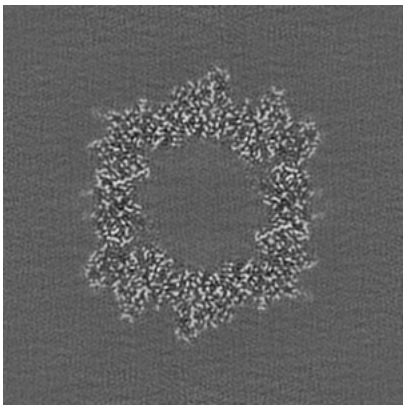
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

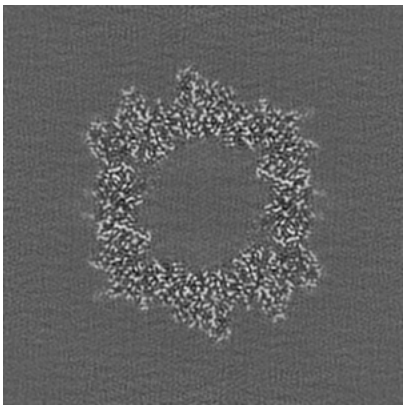
6.3.1 Primary map



X Index: 221

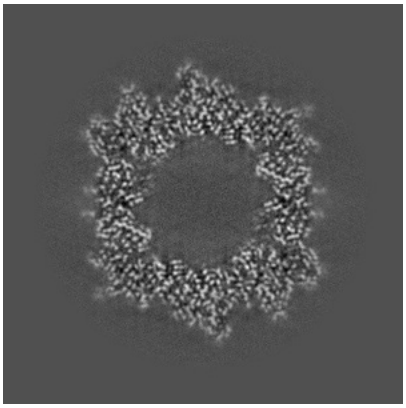


Y Index: 221

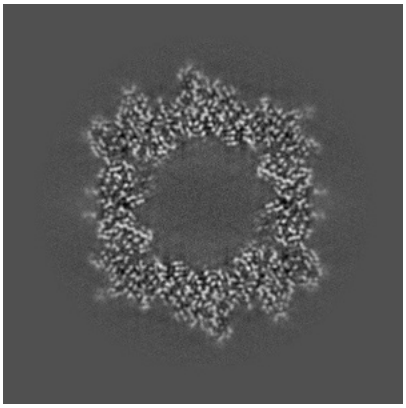


Z Index: 98

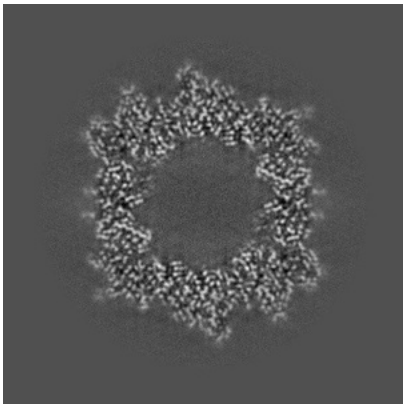
6.3.2 Raw map



X Index: 221



Y Index: 221

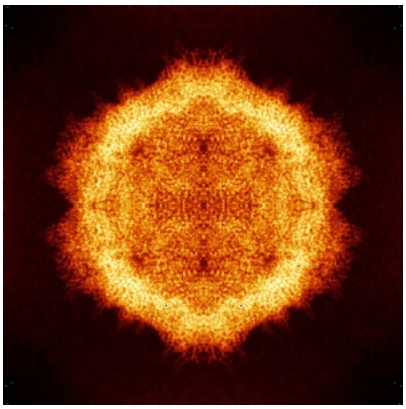


Z Index: 222

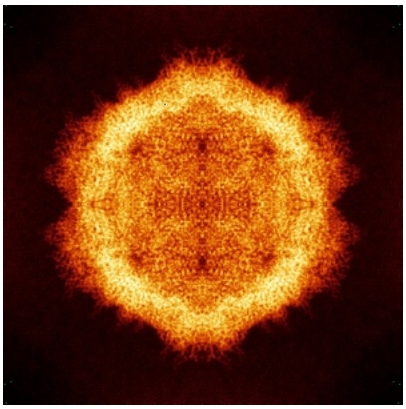
The images above show the largest variance slices of the map in three orthogonal directions.

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

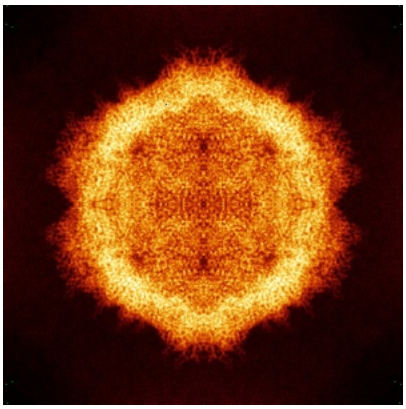
6.4.1 Primary map



X

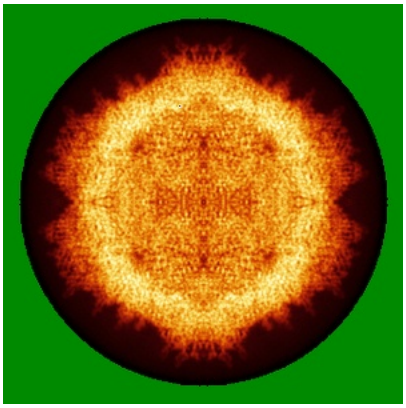


Y

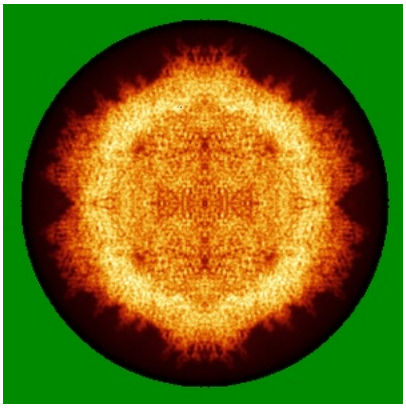


Z

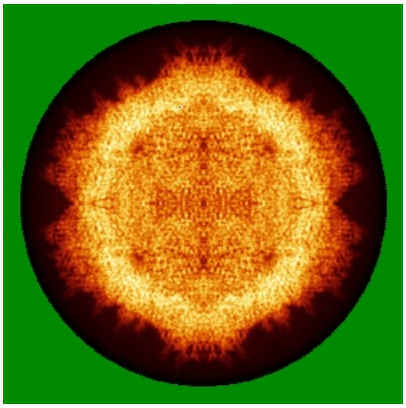
6.4.2 Raw map



X



Y

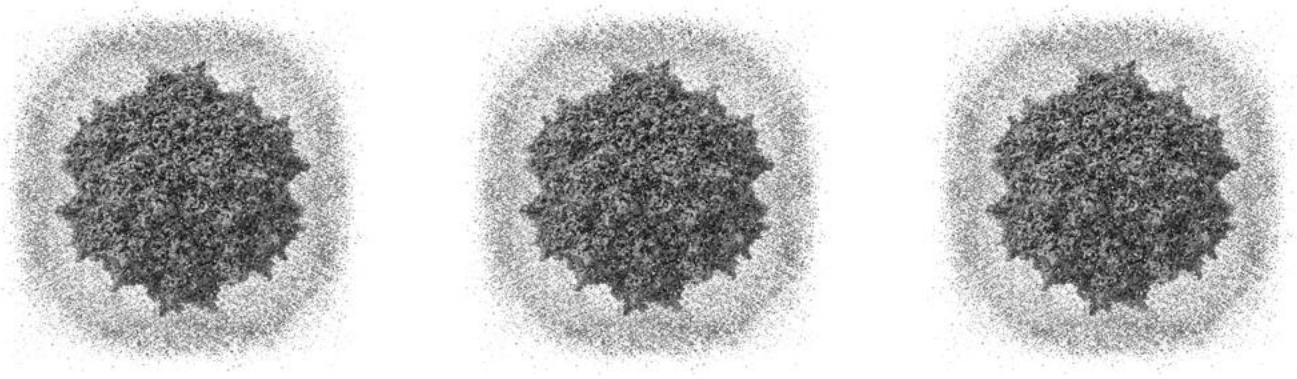


Z

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

6.5 Orthogonal surface views (i)

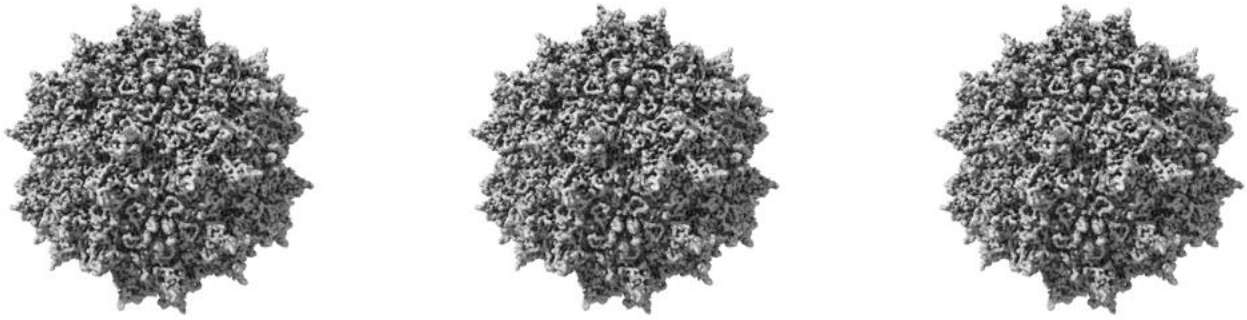
6.5.1 Primary map



X Y Z

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

6.5.2 Raw map



X Y Z

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

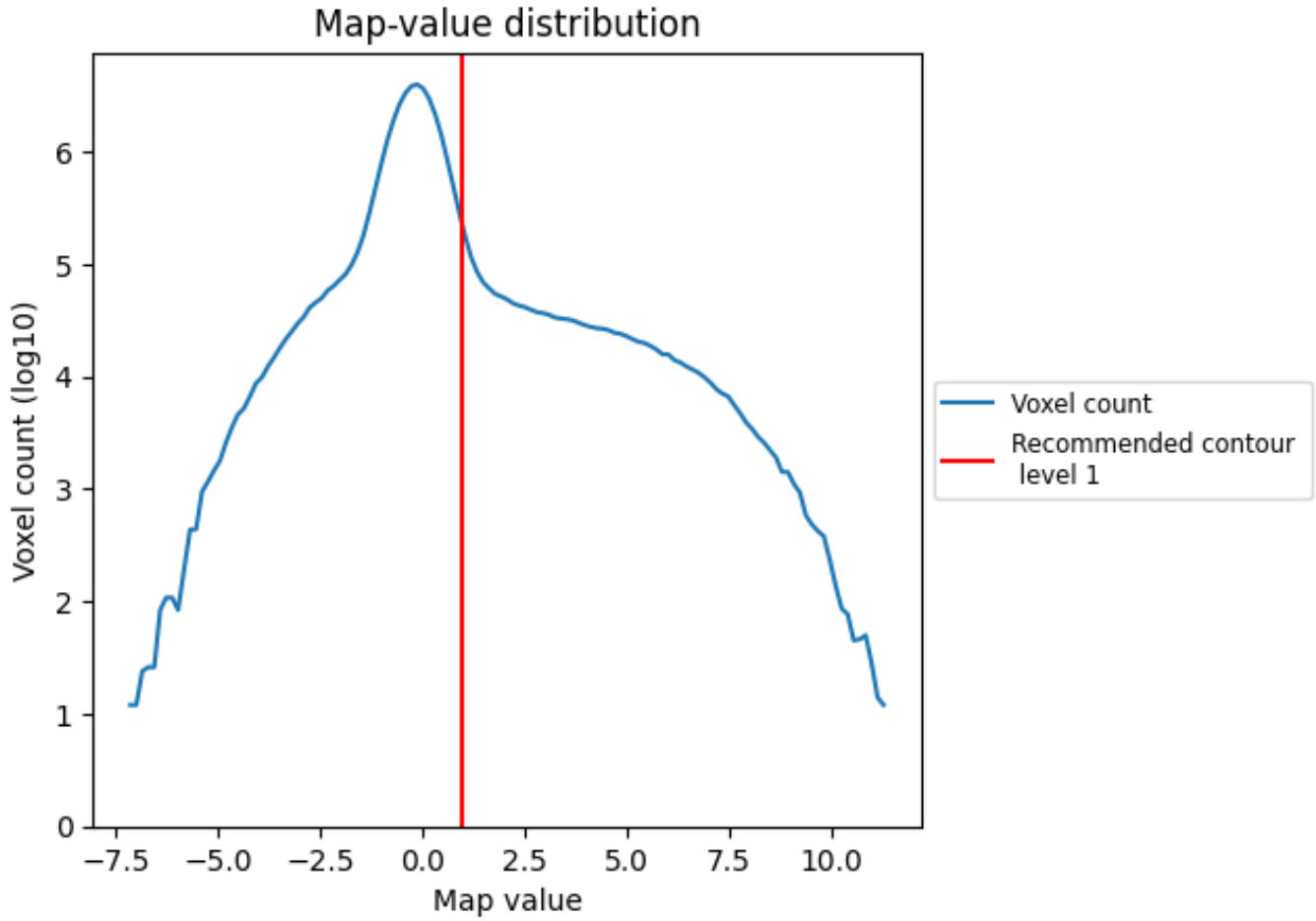
6.6 Mask visualisation (i)

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

7 Map analysis

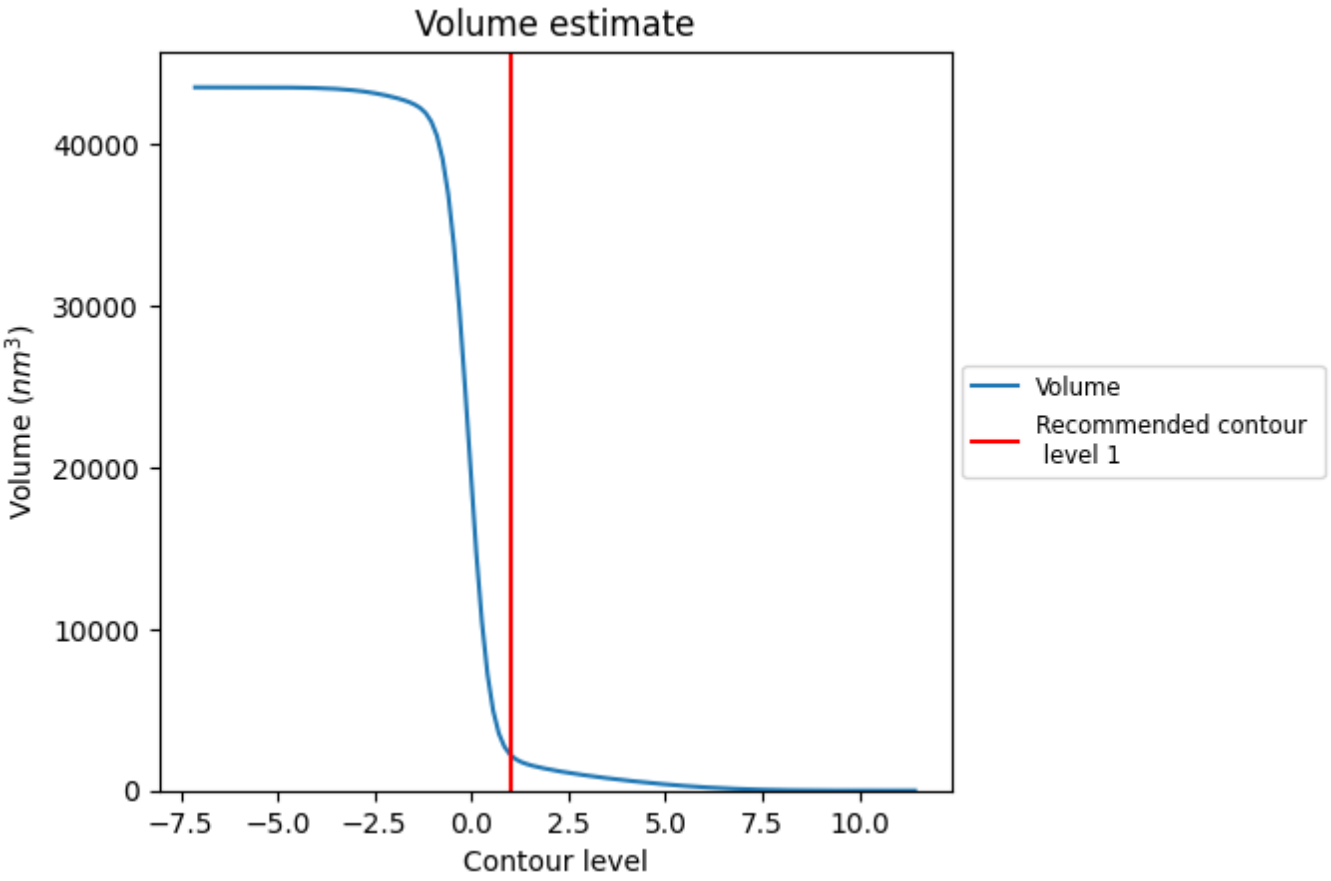
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

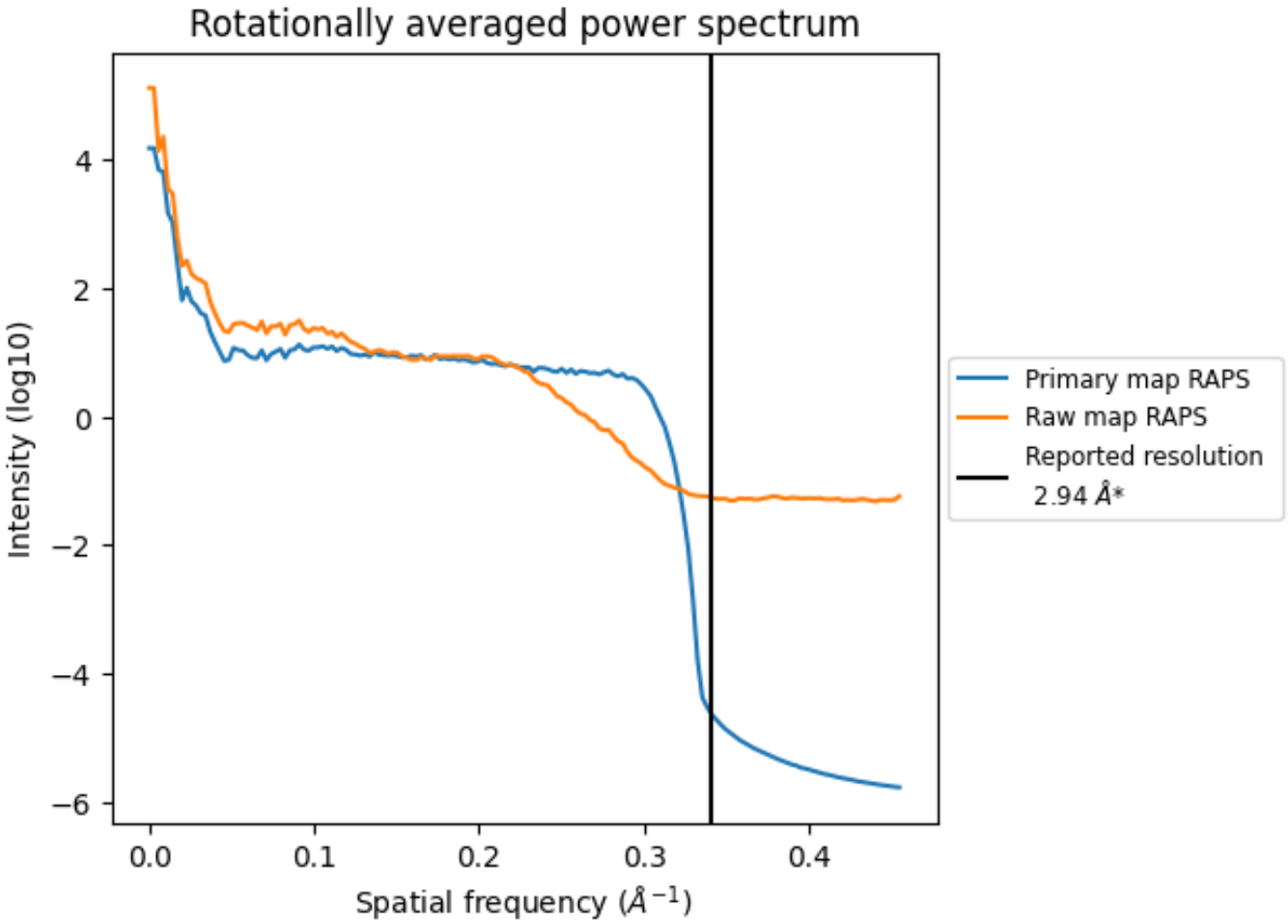
7.2 Volume estimate



The volume at the recommended contour level is 2221 nm^3; this corresponds to an approximate mass of 2007 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)

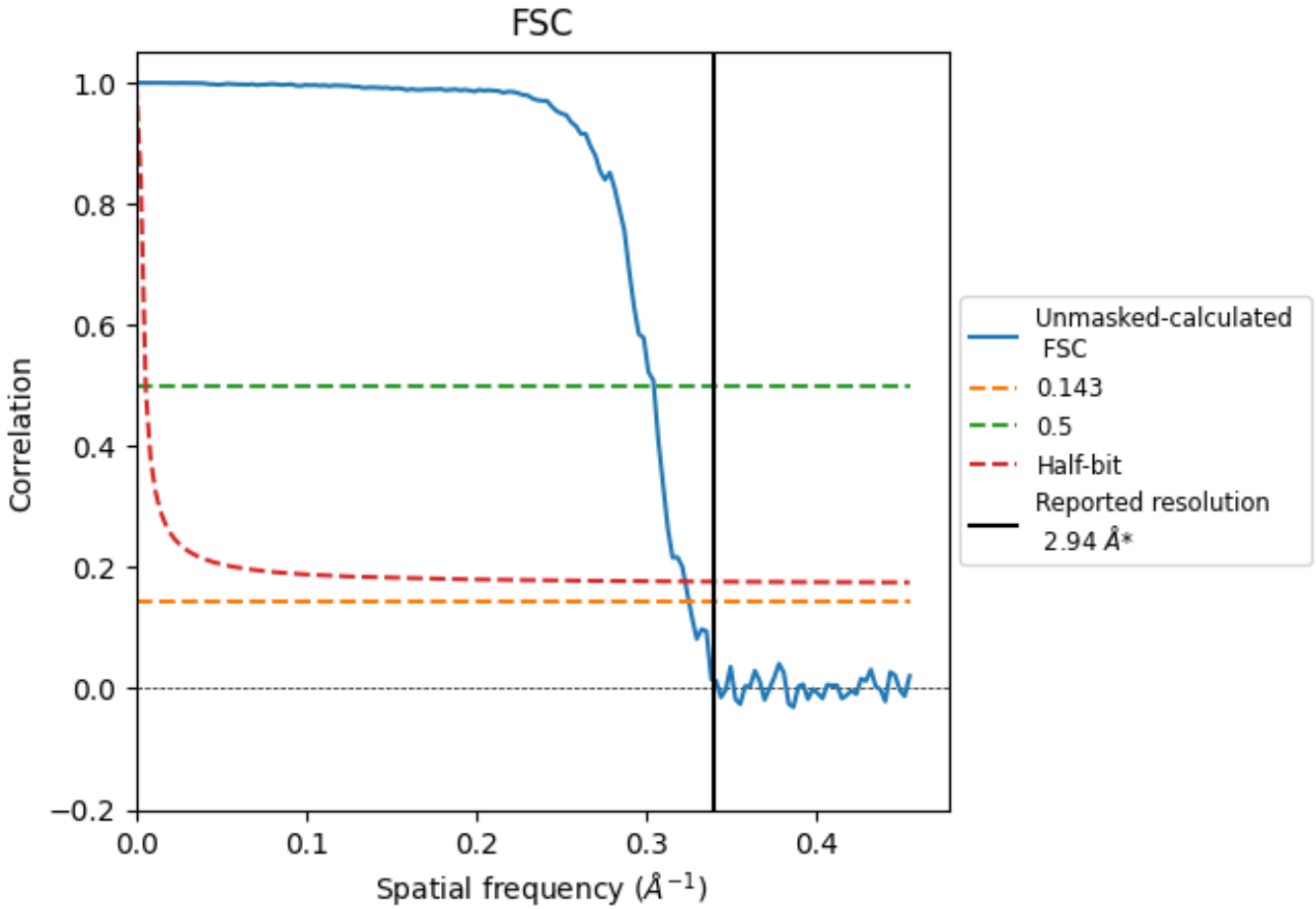


*Reported resolution corresponds to spatial frequency of 0.340 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.340 Å^{-1}

8.2 Resolution estimates (i)

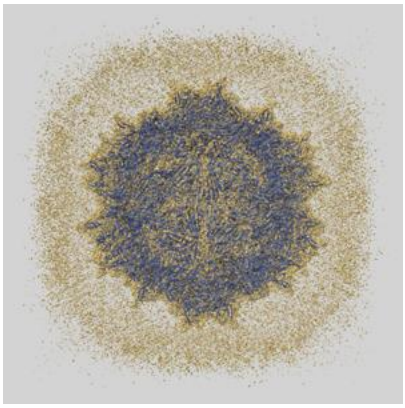
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.94	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.08	3.28	3.10

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

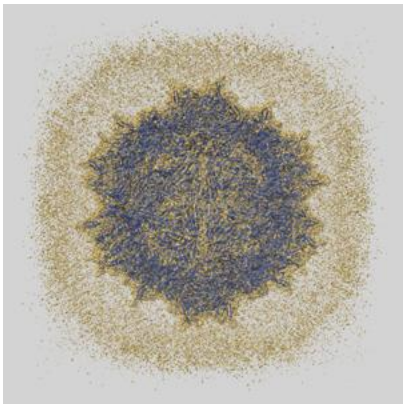
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-29600 and PDB model 8FZ0. Per-residue inclusion information can be found in section 3 on page 10.

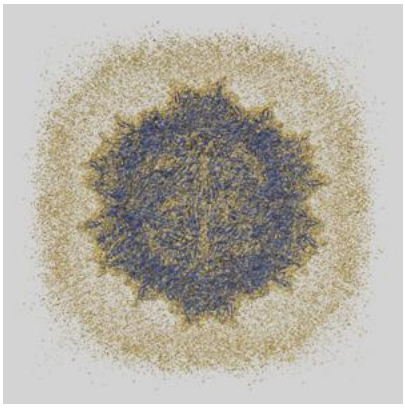
9.1 Map-model overlay



X



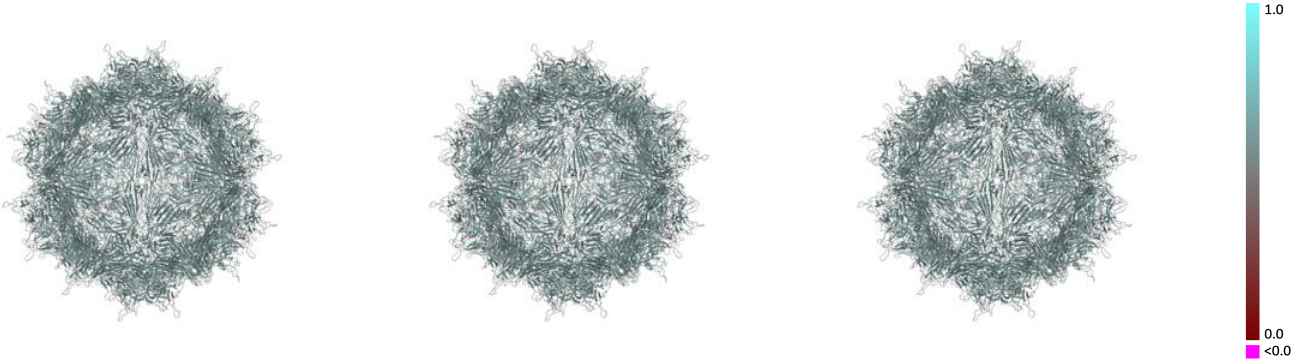
Y



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.

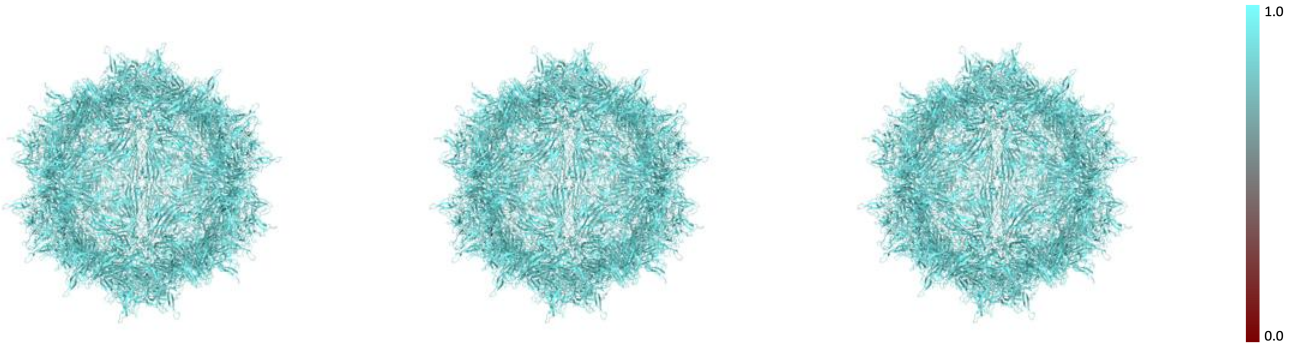
9.2 Q-score mapped to coordinate model



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.

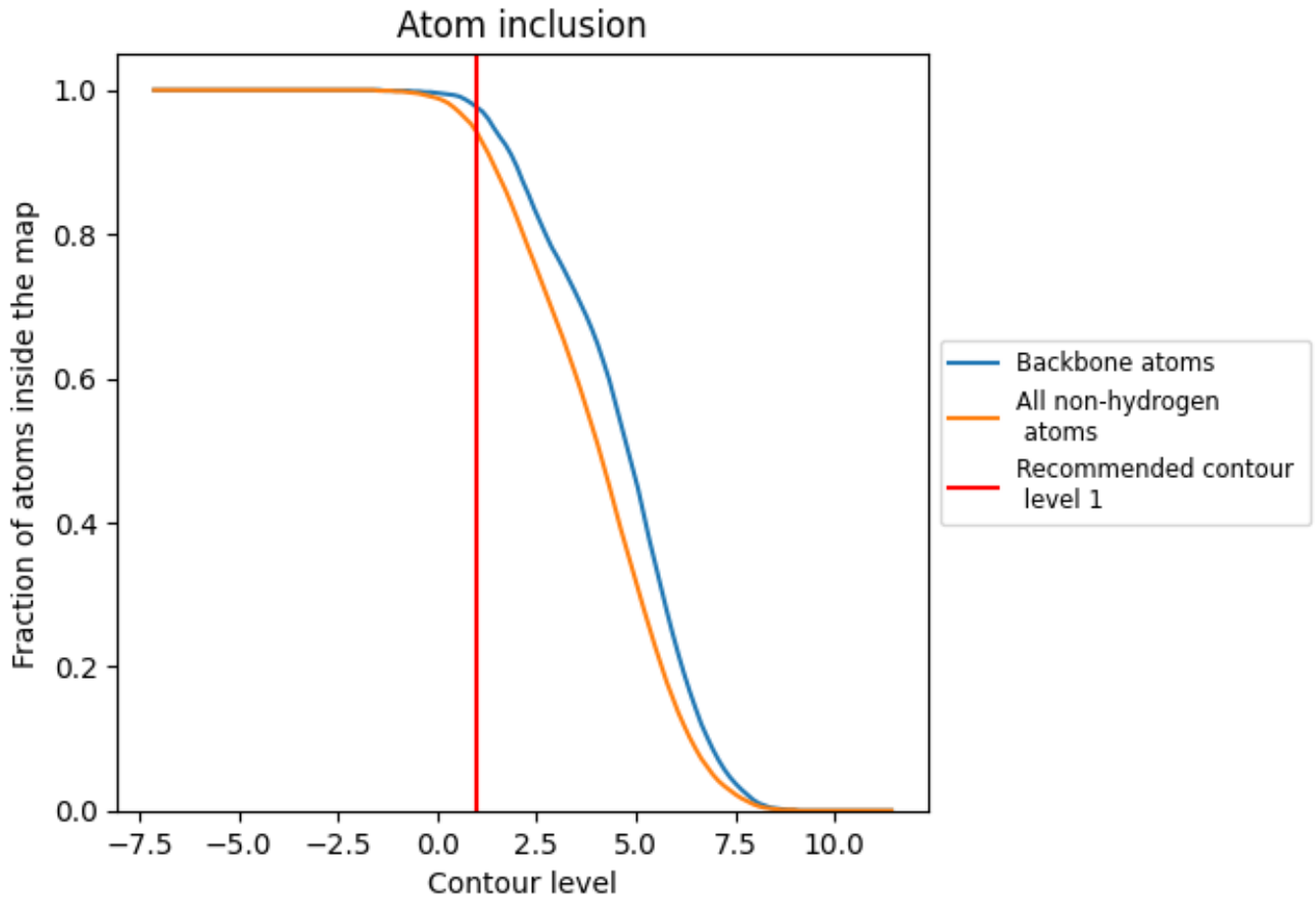
9.3 Atom inclusion mapped to coordinate model



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, 98% of all backbone atoms, 94% 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	0.9410	0.5640
1	0.9420	0.5620
2	0.9420	0.5650
3	0.9410	0.5650
4	0.9410	0.5640
5	0.9390	0.5620
6	0.9380	0.5640
7	0.9390	0.5640
8	0.9400	0.5620
A	0.9410	0.5670
B	0.9410	0.5660
C	0.9420	0.5650
D	0.9400	0.5650
E	0.9410	0.5650
F	0.9400	0.5660
G	0.9410	0.5650
H	0.9370	0.5660
I	0.9410	0.5670
J	0.9400	0.5640
K	0.9410	0.5660
L	0.9410	0.5650
M	0.9410	0.5650
N	0.9380	0.5650
O	0.9410	0.5640
P	0.9370	0.5660
Q	0.9410	0.5670
R	0.9430	0.5640
S	0.9400	0.5630
T	0.9420	0.5660
U	0.9400	0.5650
V	0.9420	0.5660
W	0.9400	0.5650
X	0.9410	0.5640
Y	0.9380	0.5640
Z	0.9410	0.5640

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Chain	Atom inclusion	Q-score
a	0.9440	0.5640
b	0.9410	0.5640
c	0.9420	0.5660
d	0.9440	0.5640
e	0.9410	0.5640
f	0.9420	0.5660
g	0.9400	0.5640
h	0.9410	0.5620
i	0.9390	0.5640
j	0.9390	0.5620
k	0.9380	0.5640
l	0.9400	0.5620
m	0.9410	0.5630
n	0.9400	0.5660
o	0.9410	0.5620
p	0.9400	0.5640
q	0.9420	0.5620
r	0.9420	0.5640
s	0.9420	0.5620
t	0.9410	0.5640
u	0.9410	0.5640
v	0.9420	0.5620
w	0.9410	0.5630
x	0.9420	0.5640
y	0.9420	0.5640
z	0.9420	0.5630