



Full wwPDB EM Validation Report ⓘ

Mar 23, 2026 – 05:40 PM UTC

PDB ID : 9DC7 / pdb_00009dc7
EMDB ID : EMD-46745
Title : AAV5 at 80 Degree Celsius
Authors : McKenna, R.; Bennett, A.; Gliwa, K.
Deposited on : 2024-08-25
Resolution : 3.29 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

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

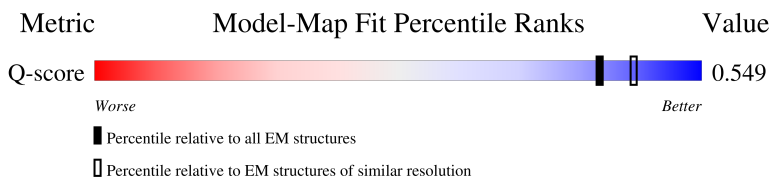
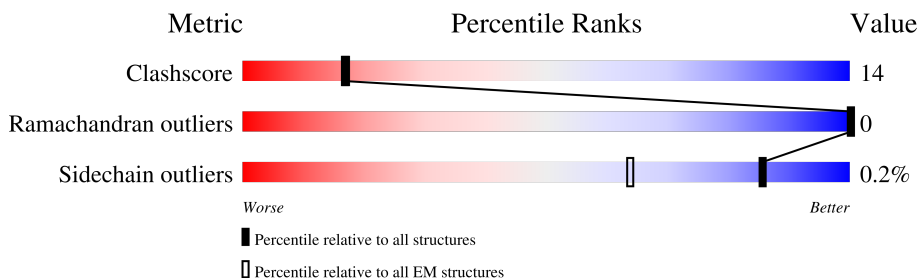
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.29 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.



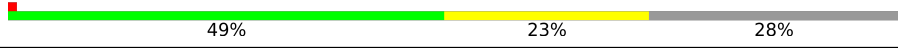
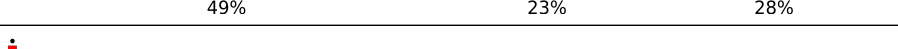
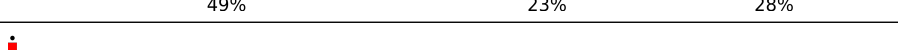
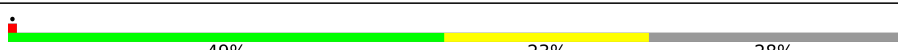
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14466 (2.79 - 3.79)

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

Mol	Chain	Length	Quality of chain
1	1	724	 49% 23% 28%
1	2	724	 49% 23% 28%
1	3	724	 50% 22% 28%
1	4	724	 49% 23% 28%

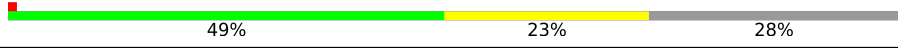
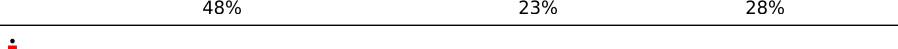
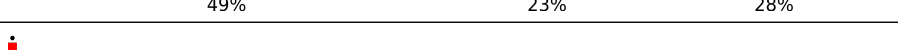
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Mol	Chain	Length	Quality of chain
1	5	724	
1	6	724	
1	7	724	
1	8	724	
1	A	724	
1	B	724	
1	C	724	
1	D	724	
1	E	724	
1	F	724	
1	G	724	
1	H	724	
1	I	724	
1	J	724	
1	K	724	
1	L	724	
1	M	724	
1	N	724	
1	O	724	
1	P	724	
1	Q	724	
1	R	724	
1	S	724	
1	T	724	
1	U	724	

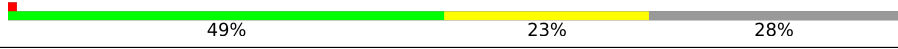
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Mol	Chain	Length	Quality of chain
1	V	724	
1	W	724	
1	X	724	
1	Y	724	
1	Z	724	
1	a	724	
1	b	724	
1	c	724	
1	d	724	
1	e	724	
1	f	724	
1	g	724	
1	h	724	
1	i	724	
1	j	724	
1	k	724	
1	l	724	
1	m	724	
1	n	724	
1	o	724	
1	p	724	
1	q	724	
1	r	724	
1	s	724	
1	t	724	

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Mol	Chain	Length	Quality of chain
1	u	724	
1	v	724	
1	w	724	
1	x	724	
1	y	724	
1	z	724	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 249420 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.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	B	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	C	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	D	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	E	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	F	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	G	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	H	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	I	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	J	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	K	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	L	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	M	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	N	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	O	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	P	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		
1	Q	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	S	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	T	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	U	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	V	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	W	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	X	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	Y	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	Z	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	a	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	b	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	c	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	d	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	e	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	f	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	g	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	h	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	i	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	j	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	k	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	l	523	Total 4157	C 2624	N 715	O 802	S 16	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	n	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	o	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	p	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	q	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	r	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	s	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	t	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	u	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	v	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	w	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	x	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	y	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	z	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	1	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	2	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	3	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	4	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	5	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	6	523	Total 4157	C 2624	N 715	O 802	S 16	0	0
1	7	523	Total 4157	C 2624	N 715	O 802	S 16	0	0

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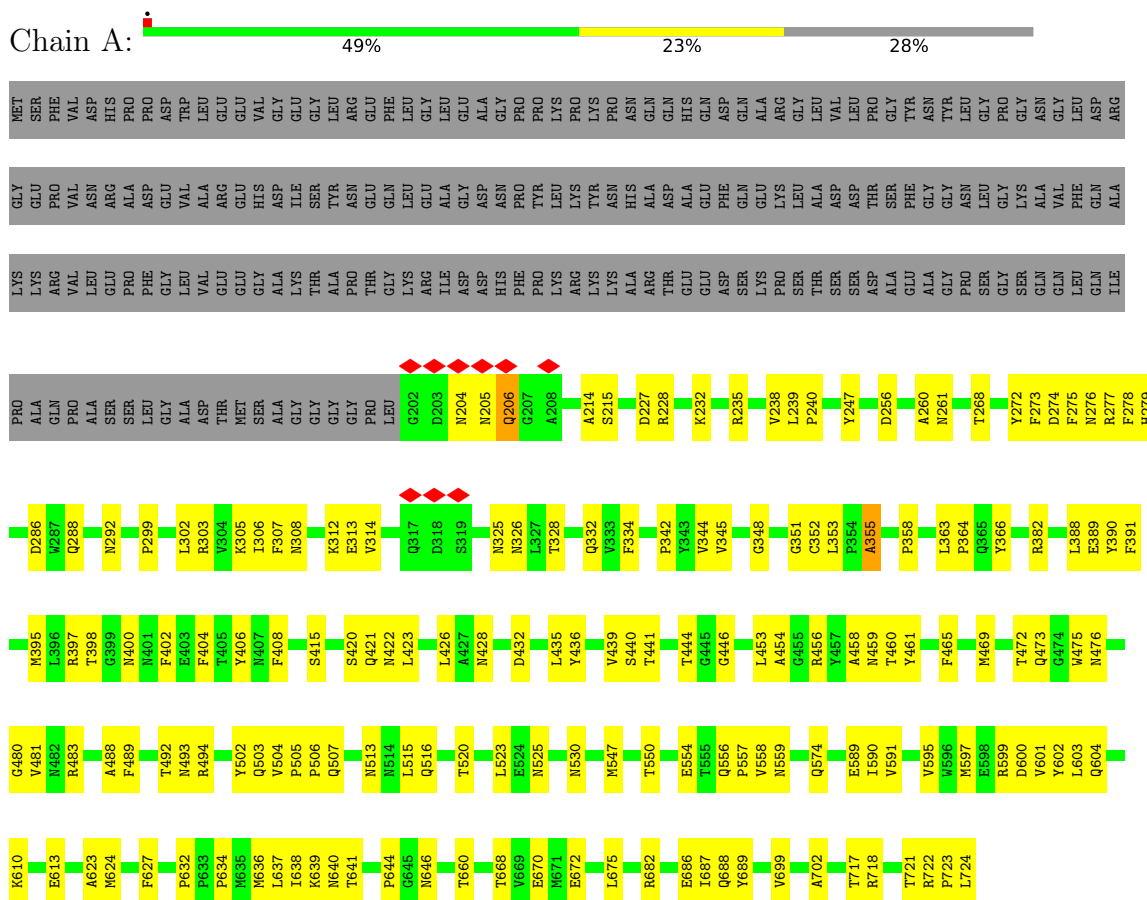
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	523	Total	C	N	O	S	0	0
			4157	2624	715	802	16		

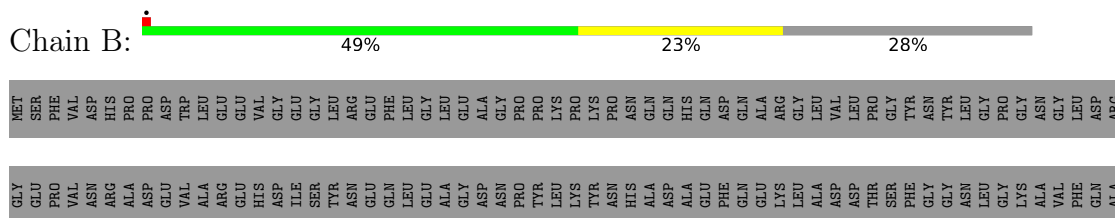
3 Residue-property plots

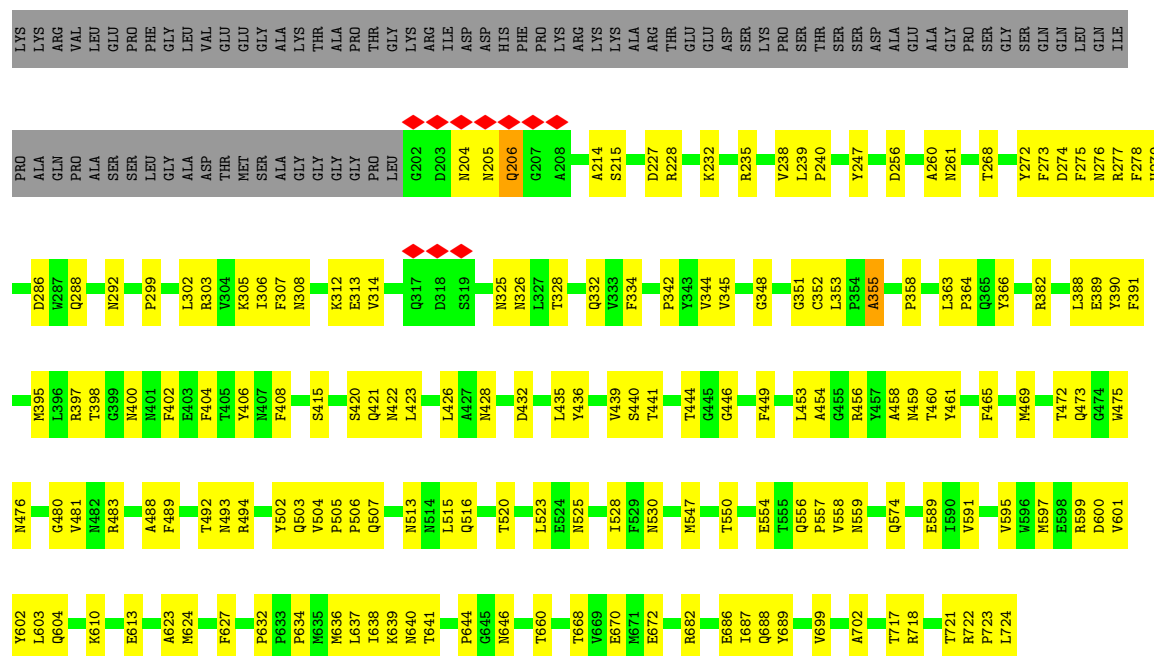
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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



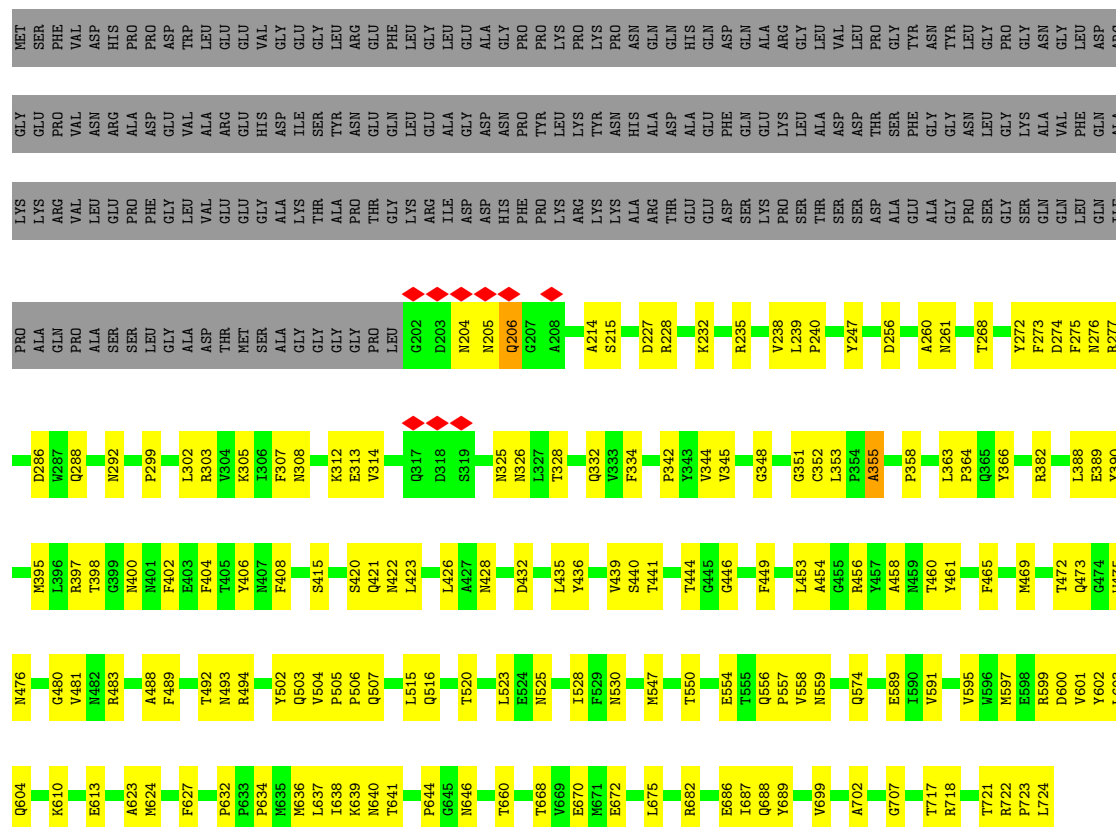
• Molecule 1: Capsid protein





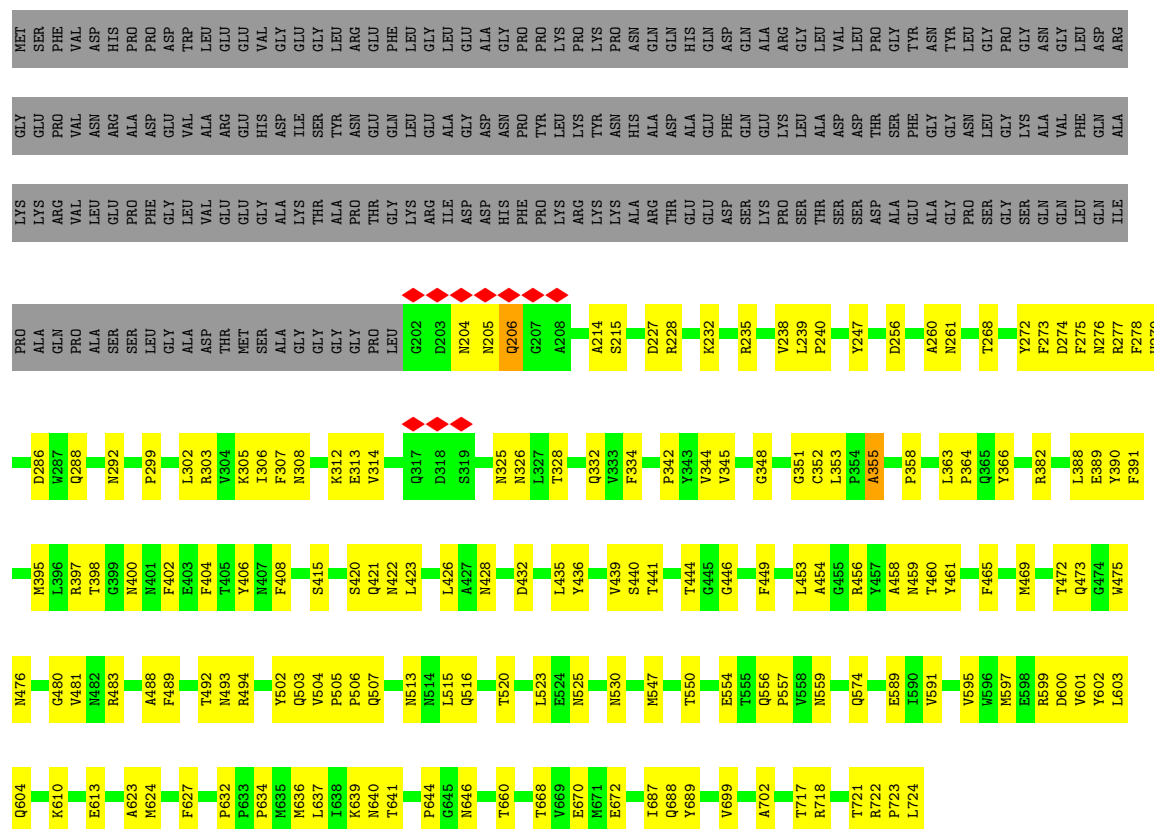
• Molecule 1: Capsid protein

Chain C: 49% 23% 28%

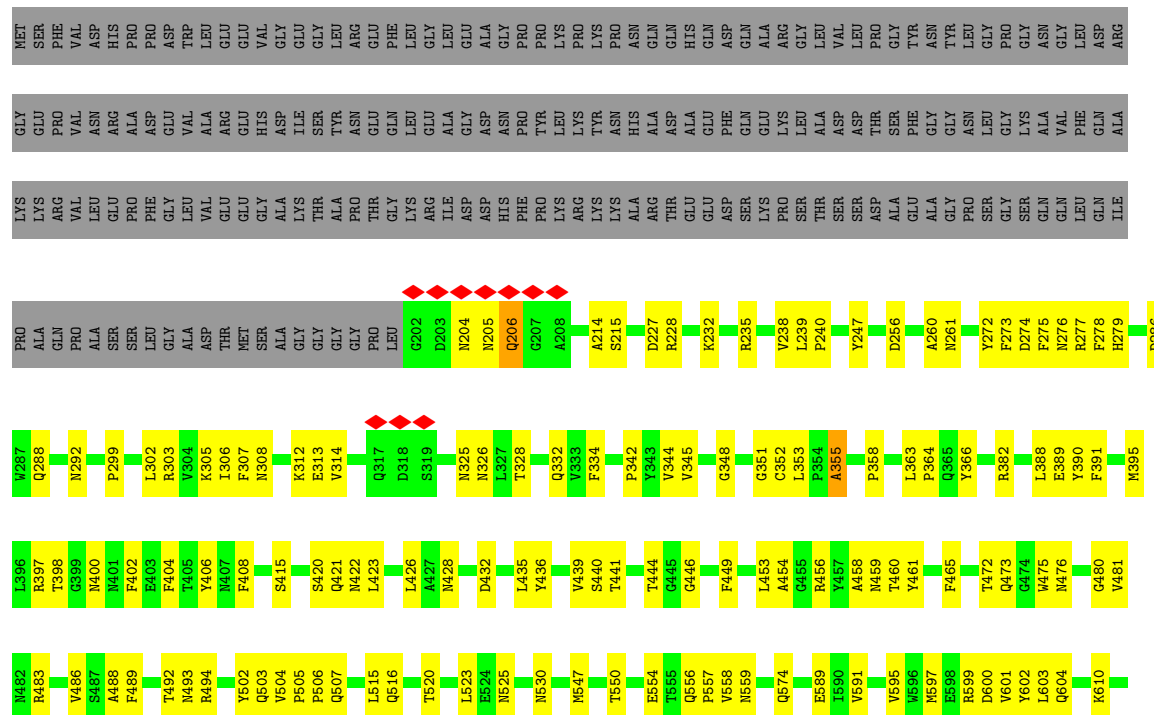


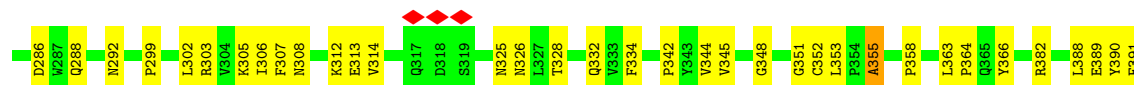
• Molecule 1: Capsid protein

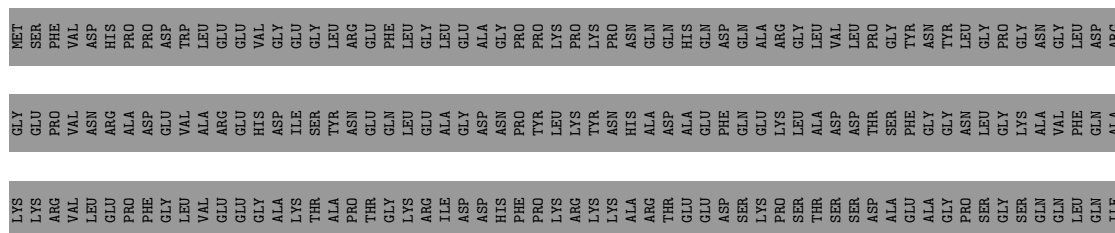
Chain D: 50% 22% 28%

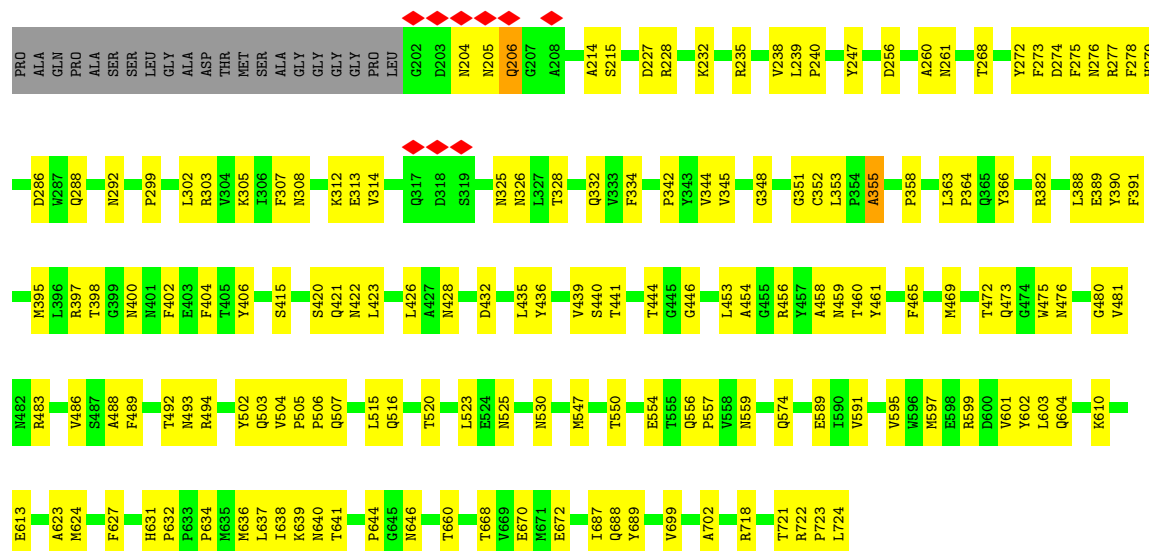


• Molecule 1: Capsid protein

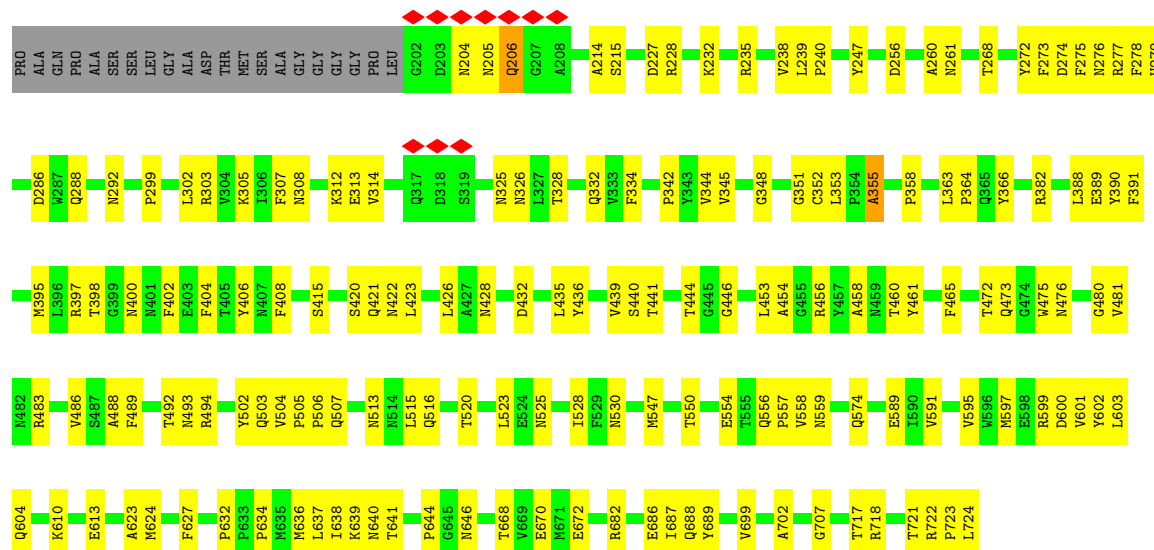
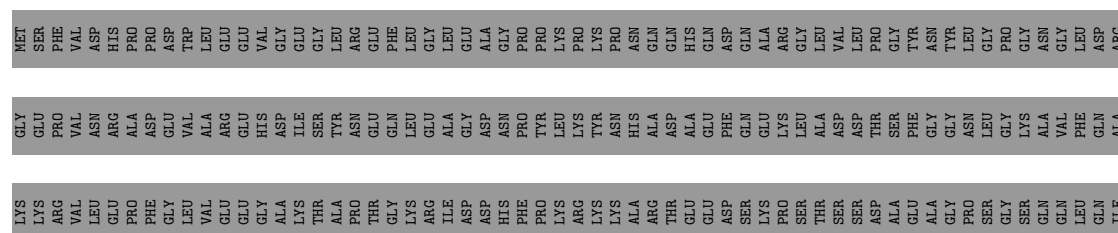




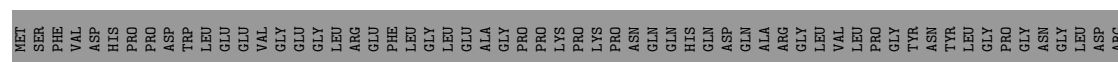


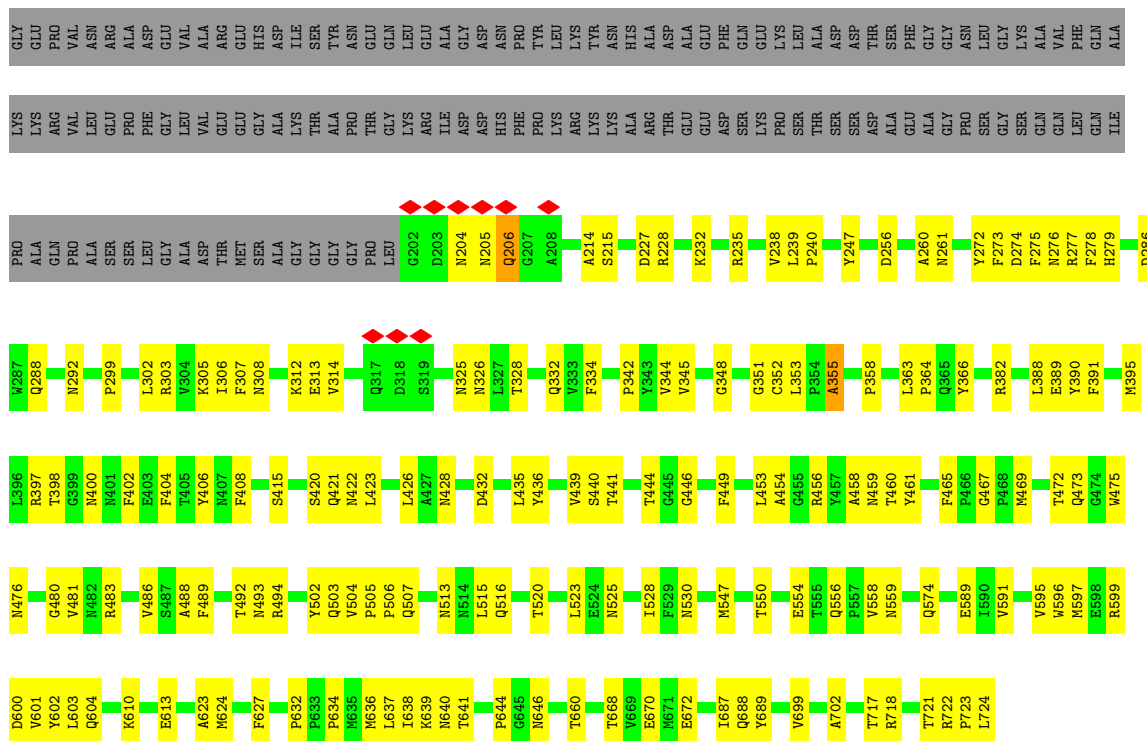


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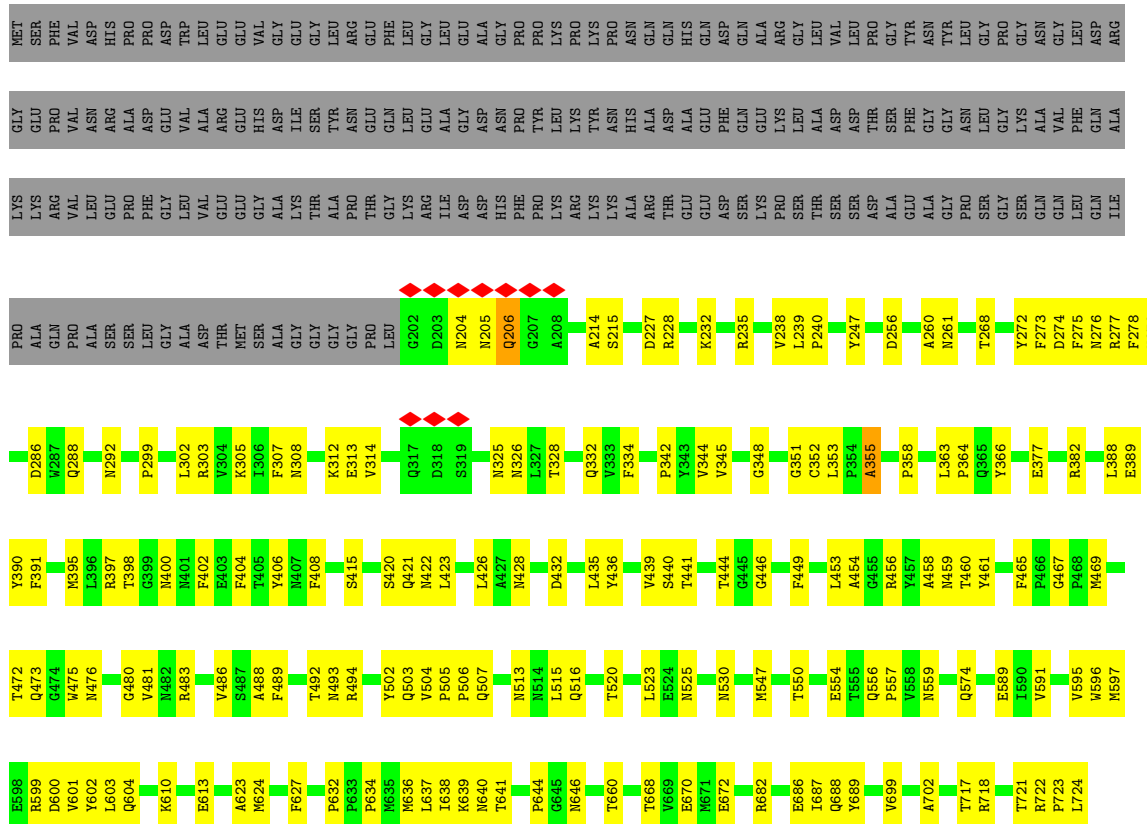


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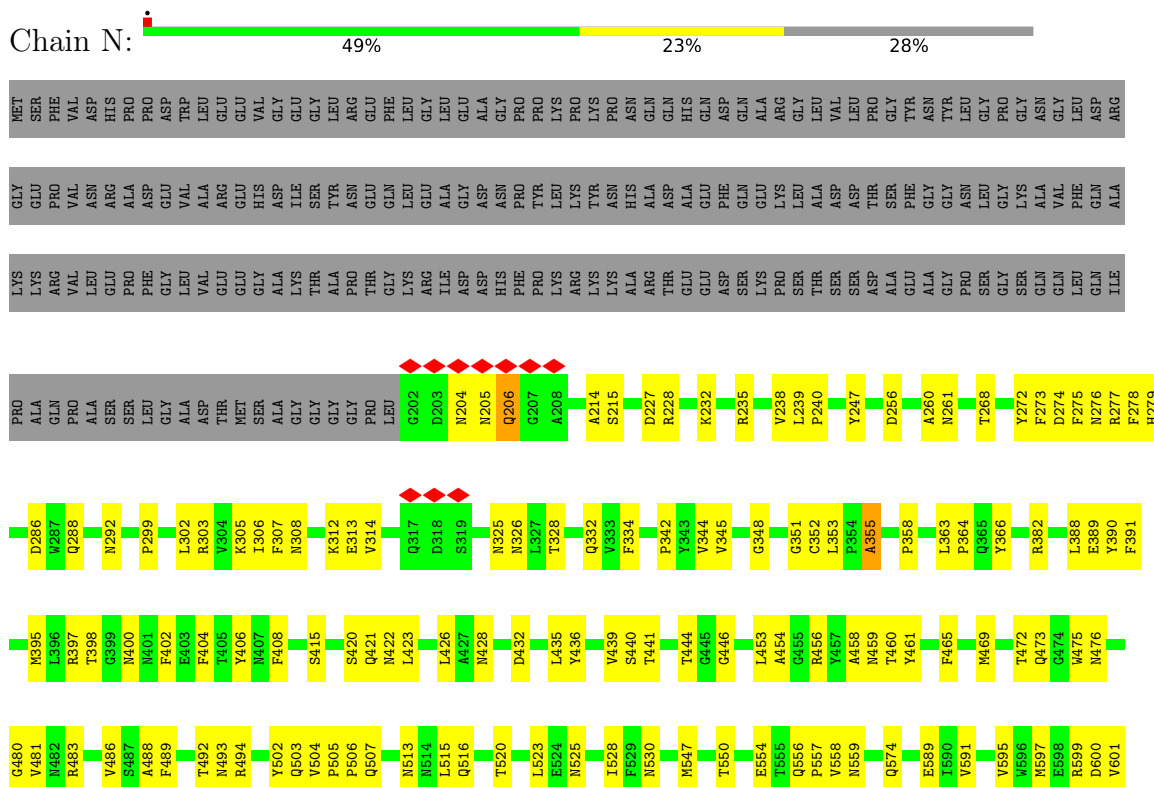
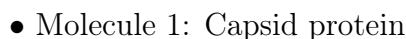


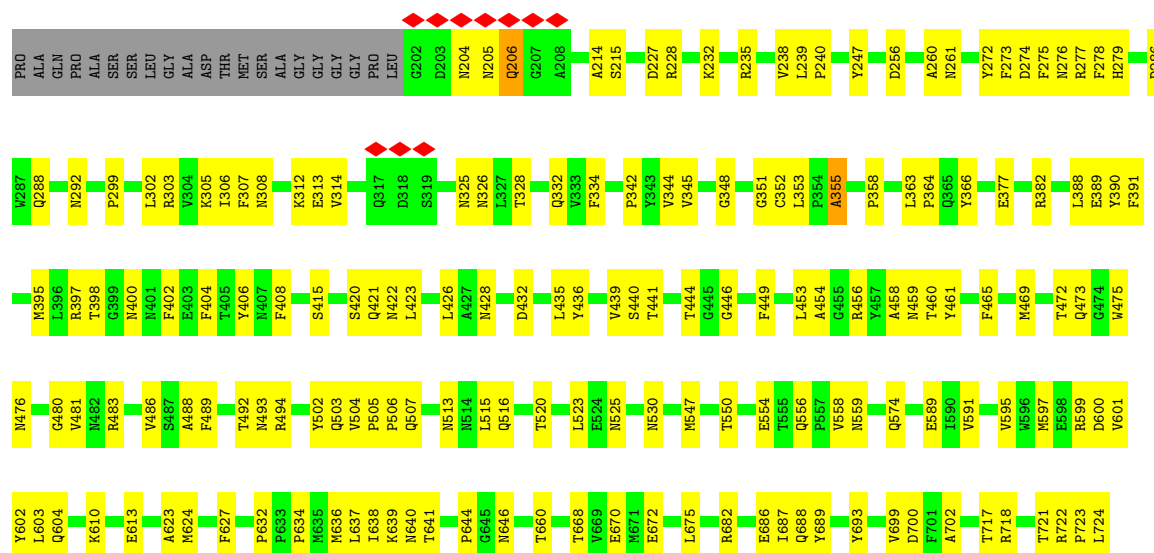


- Molecule 1: Capsid protein

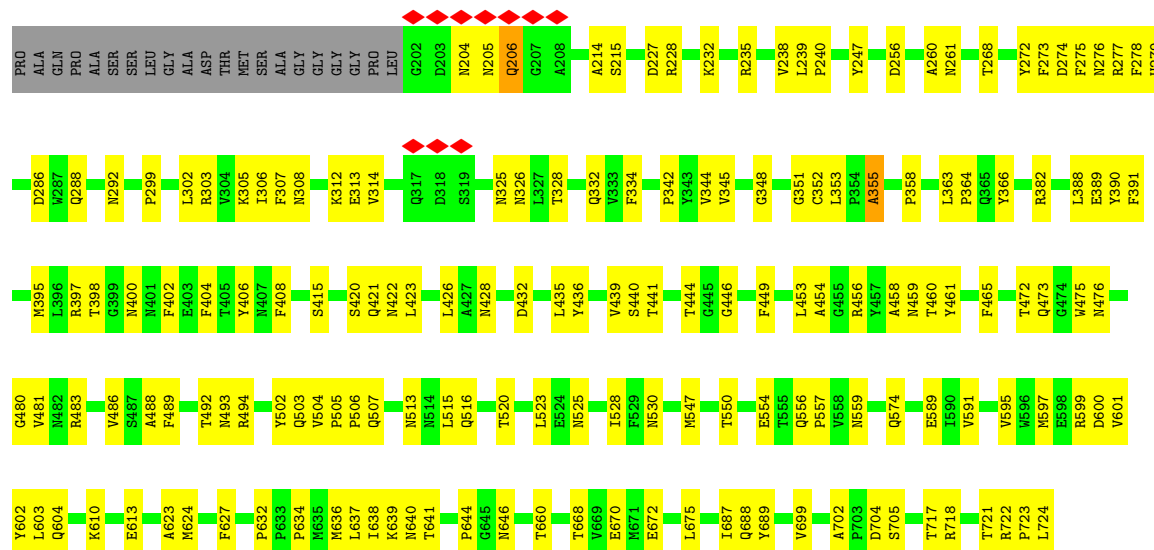
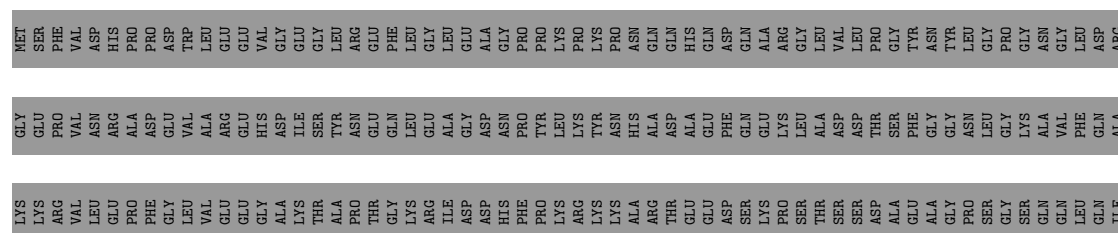


- Molecule 1: Capsid protein

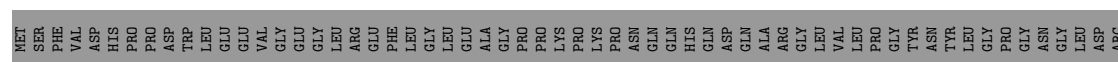


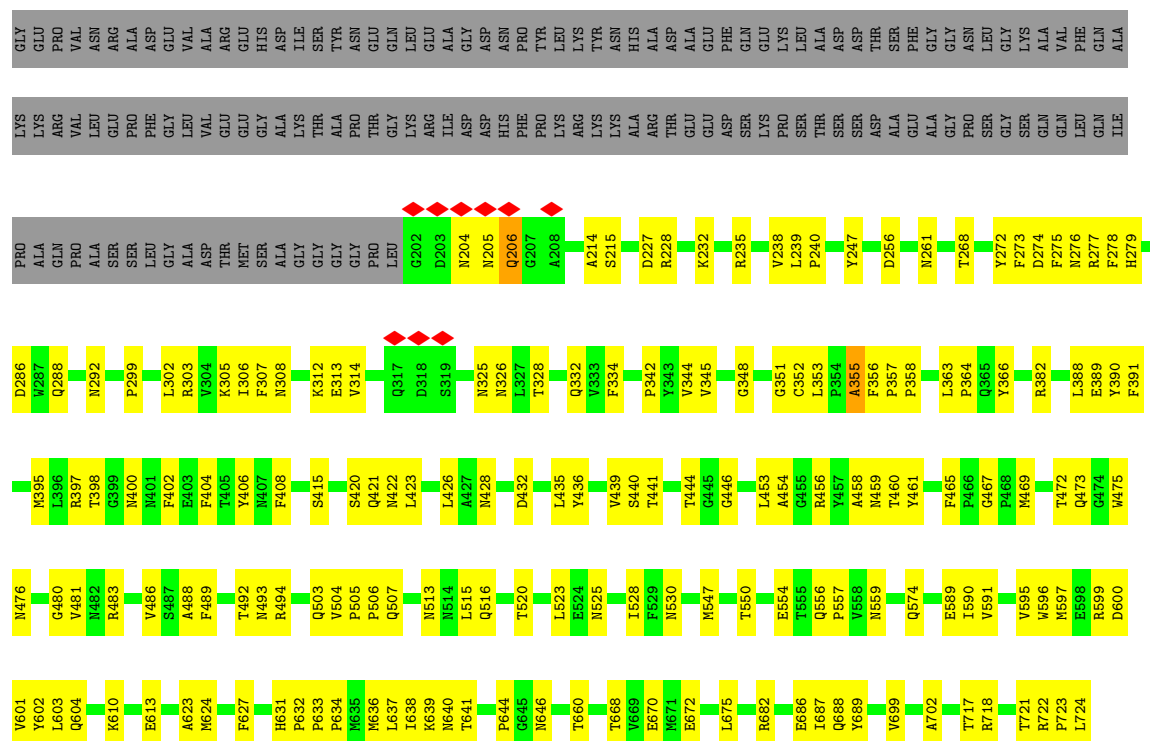


• Molecule 1: Capsid protein

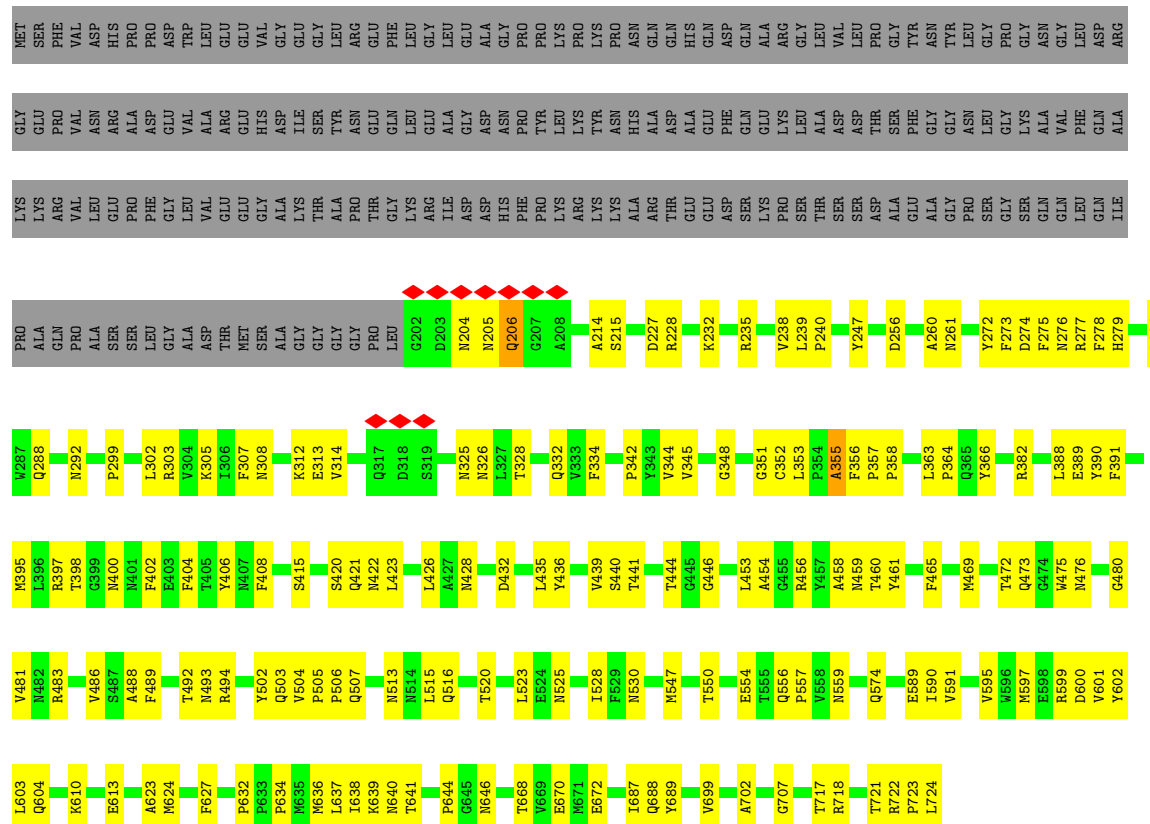


• Molecule 1: Capsid protein

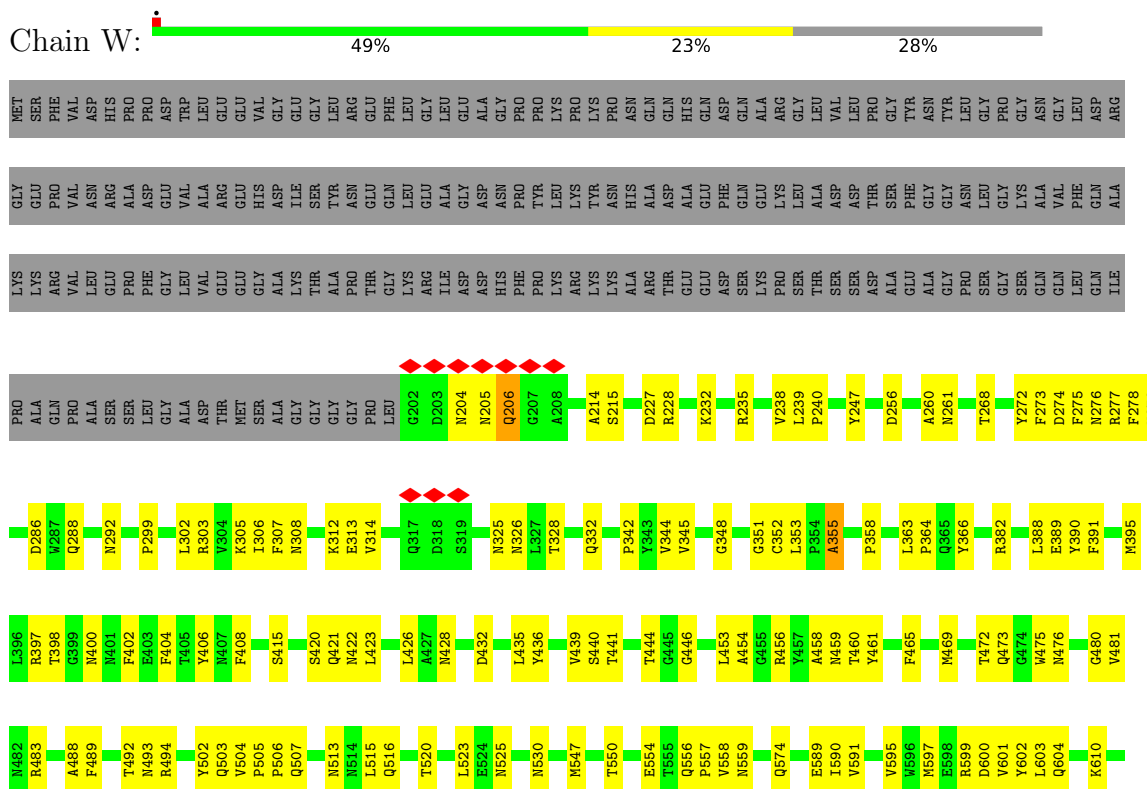
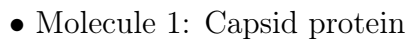




• Molecule 1: Capsid protein

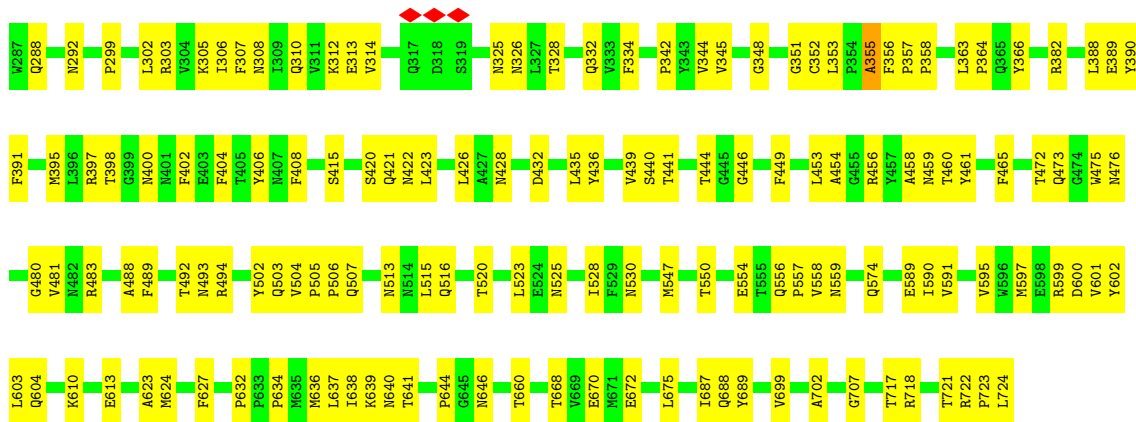
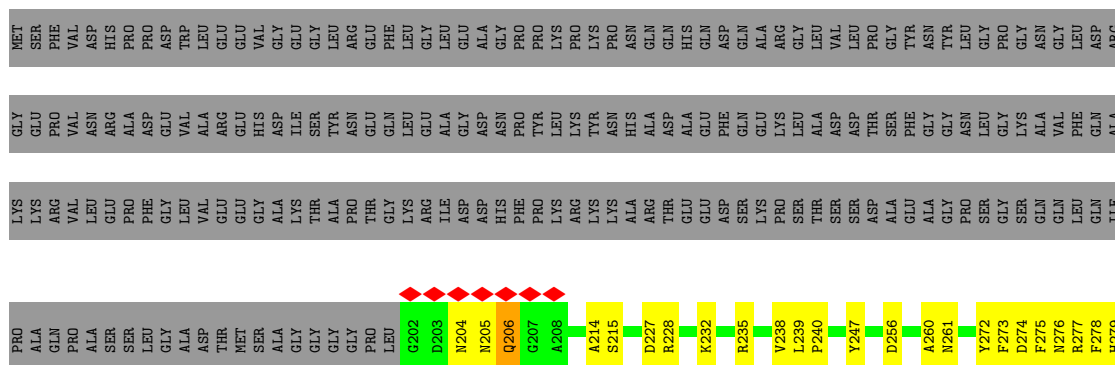


• Molecule 1: Capsid protein

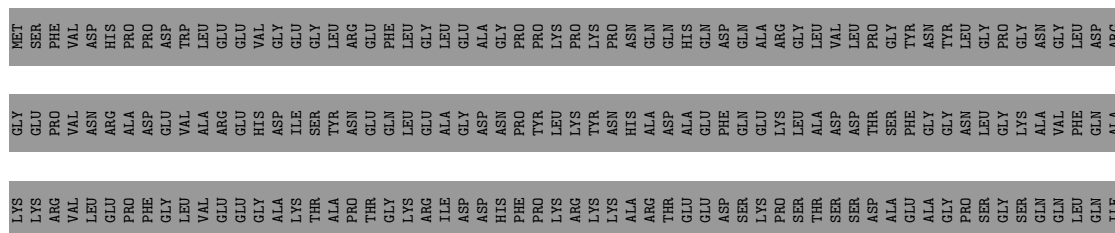


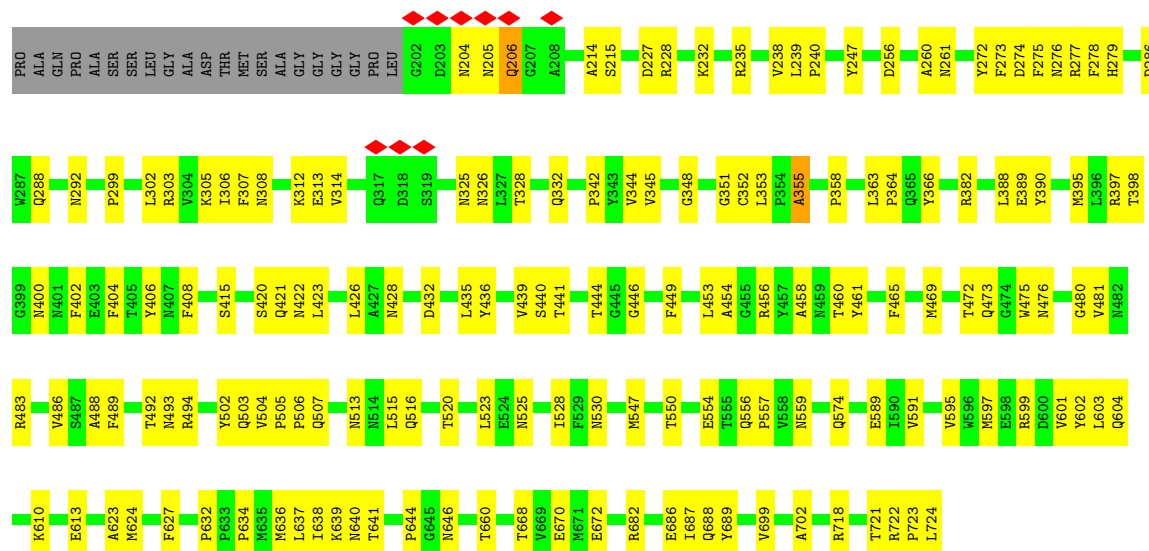


- Molecule 1: Capsid protein

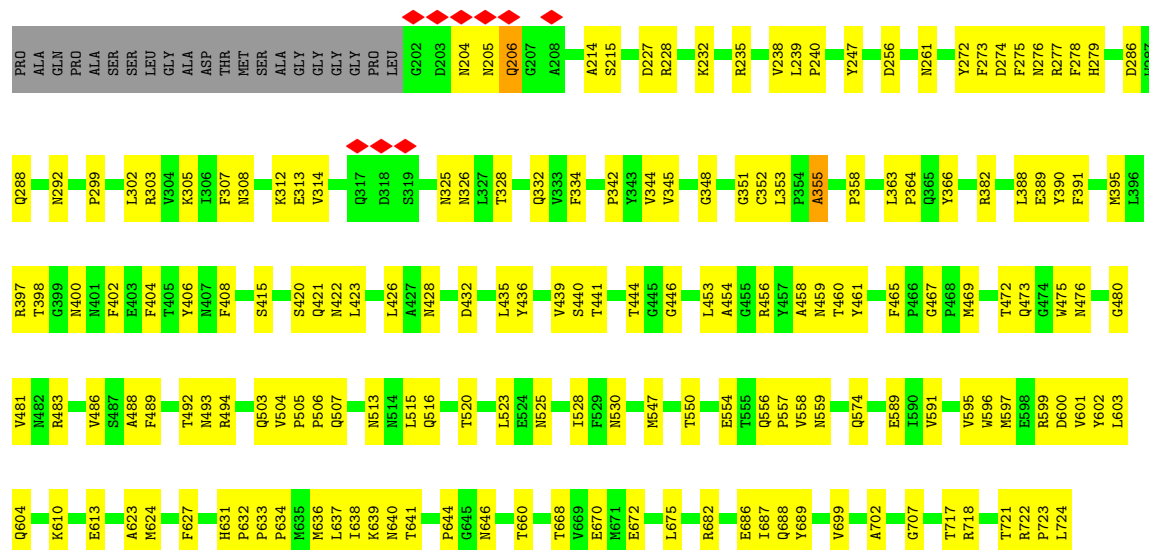
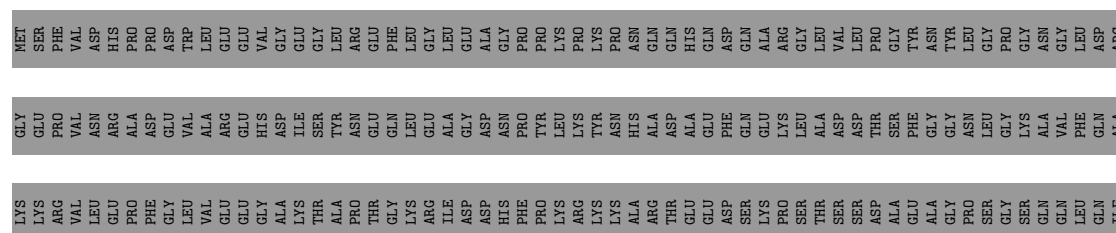


- Molecule 1: Capsid protein

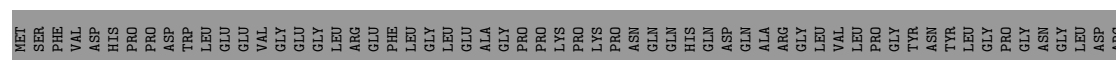


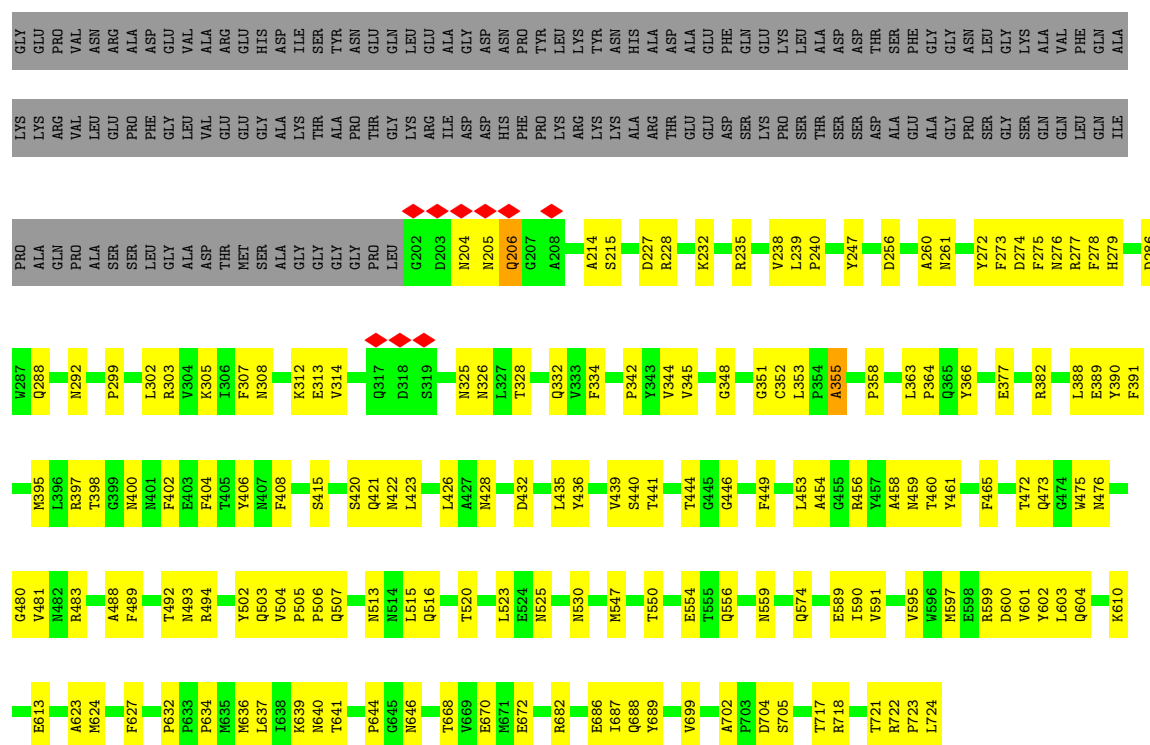


- Molecule 1: Capsid protein

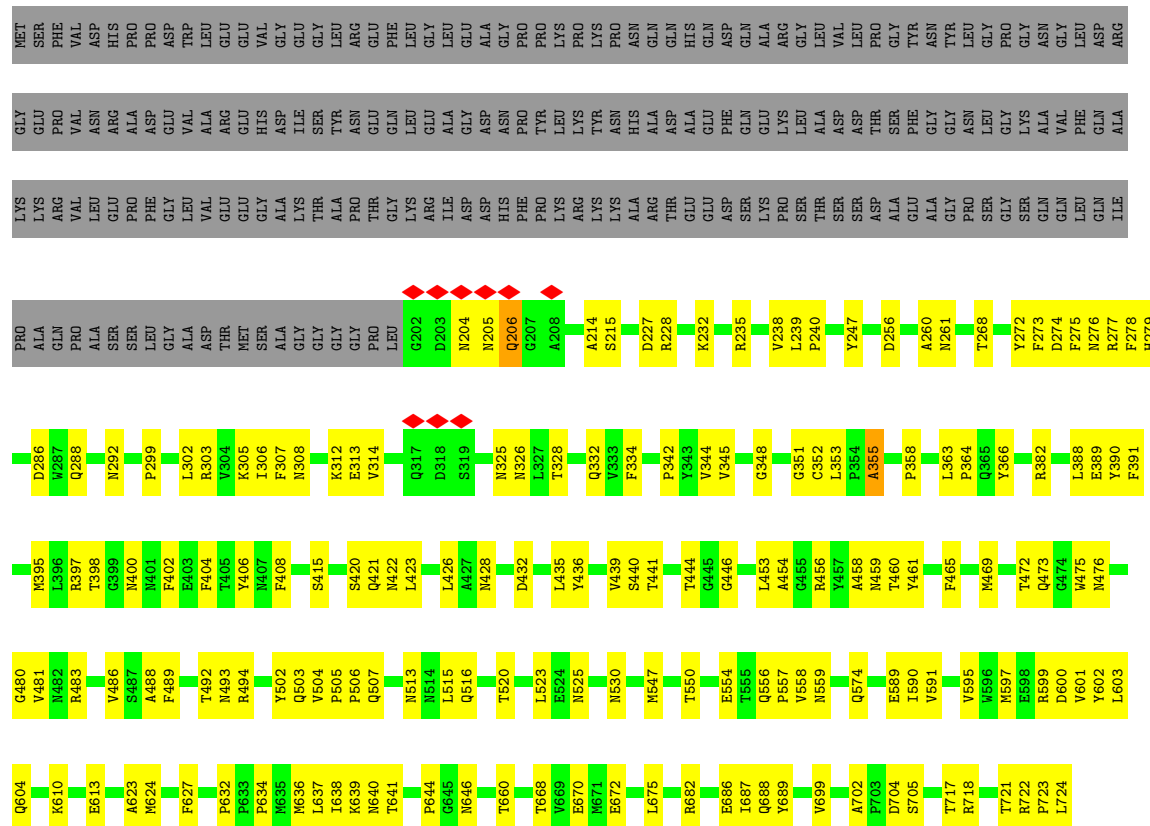


- Molecule 1: Capsid protein

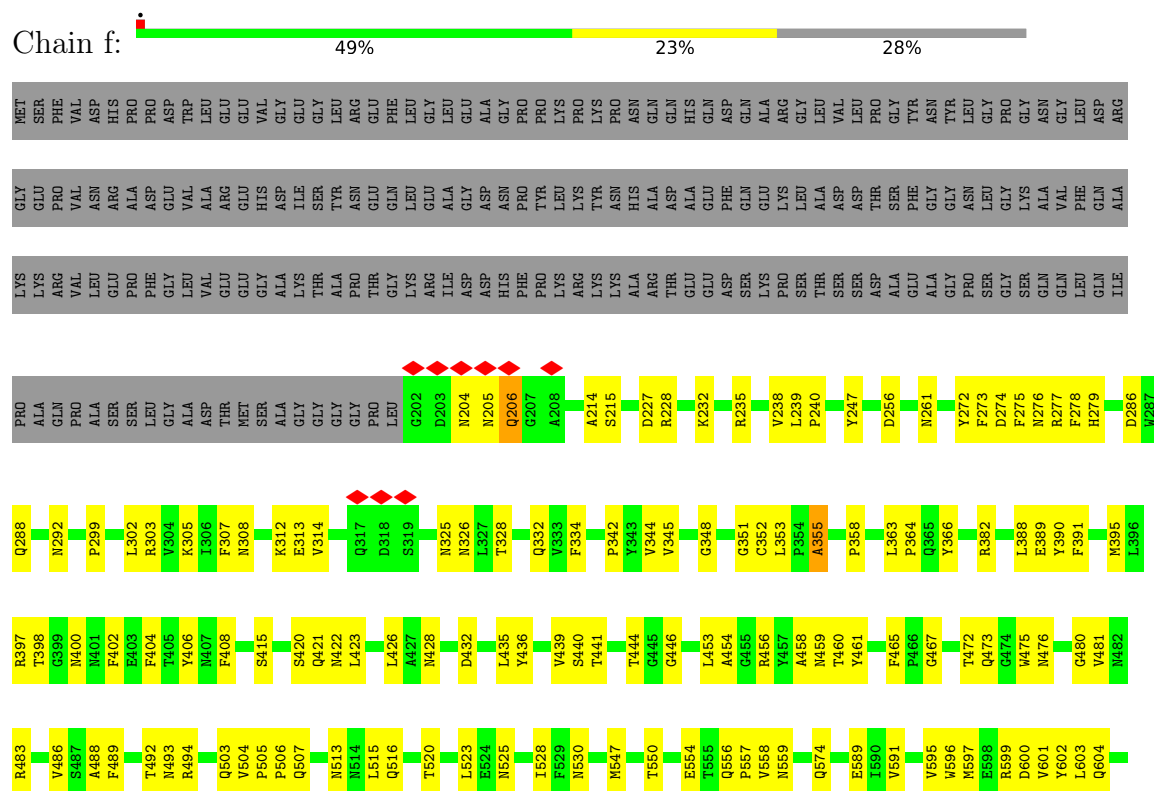


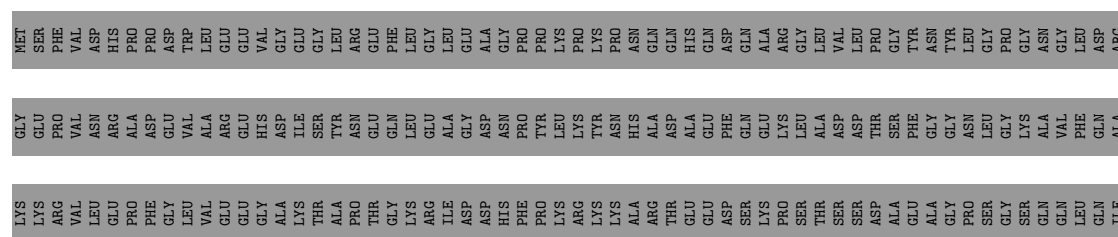


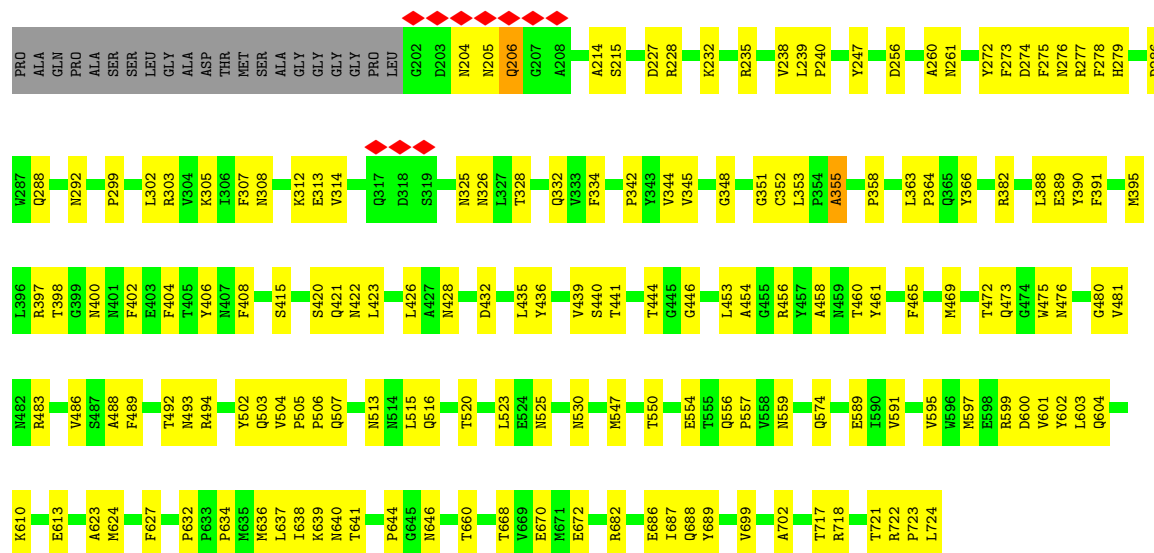
• Molecule 1: Capsid protein



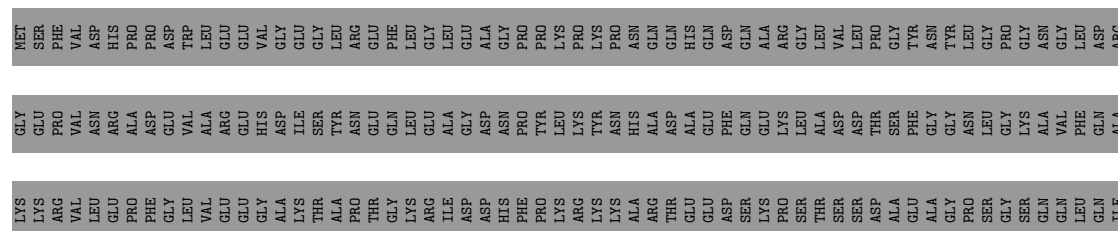
• Molecule 1: Capsid protein



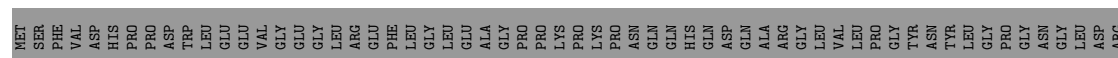


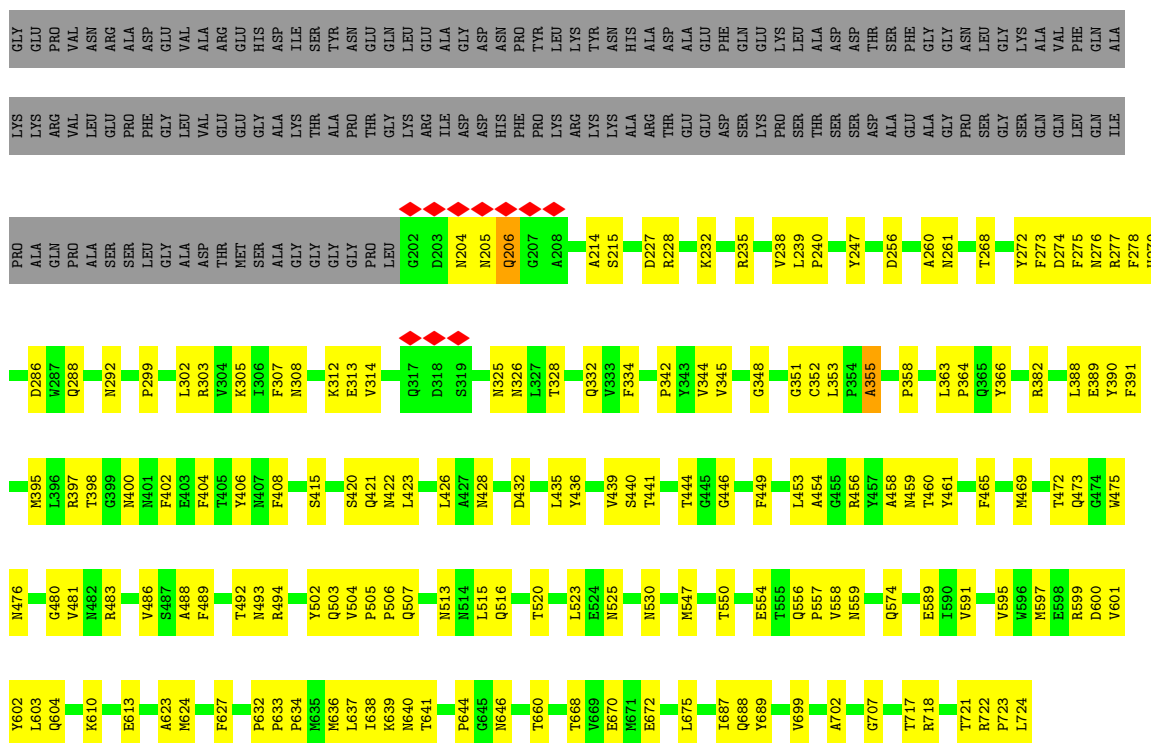


• Molecule 1: Capsid protein

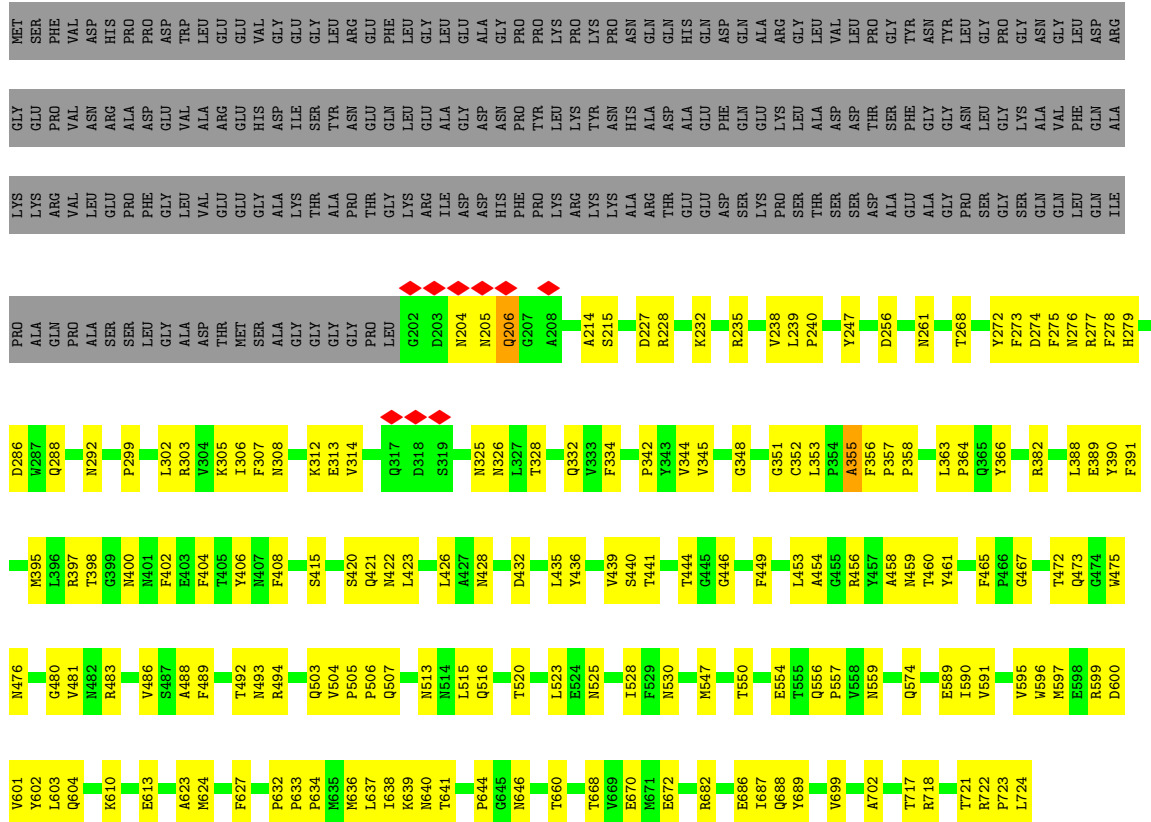


• Molecule 1: Capsid protein

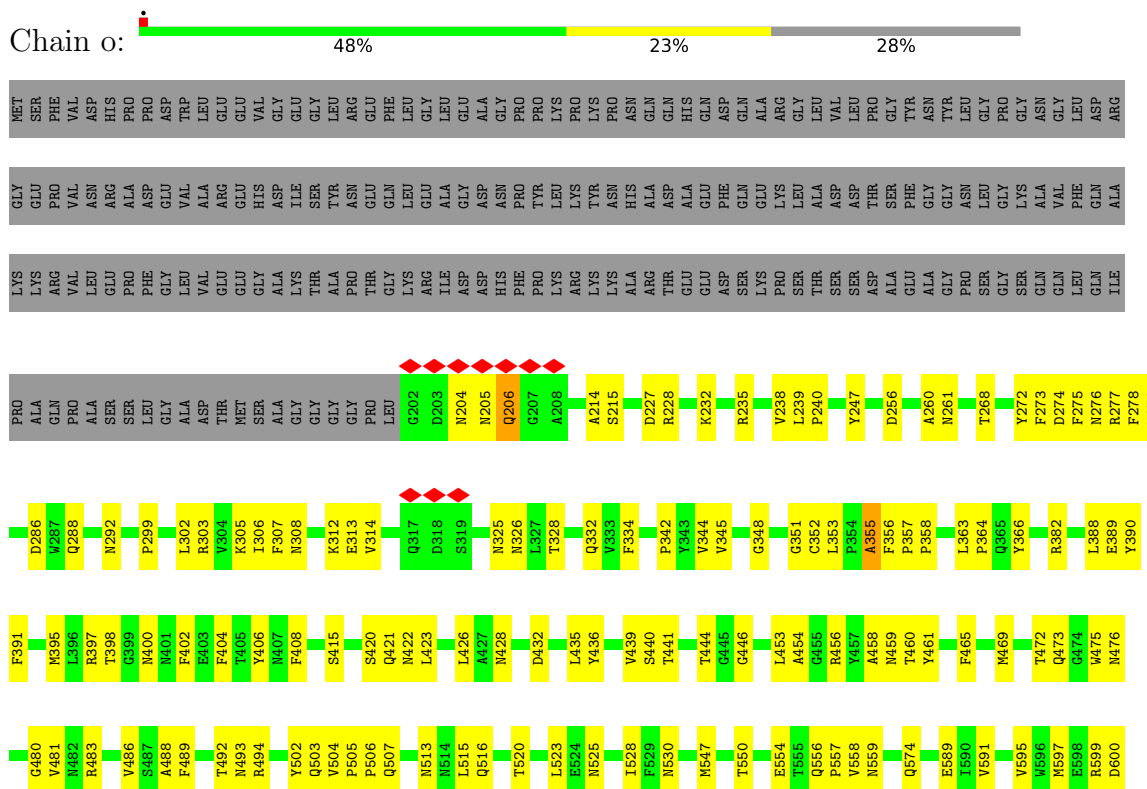
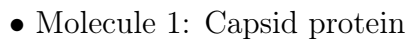


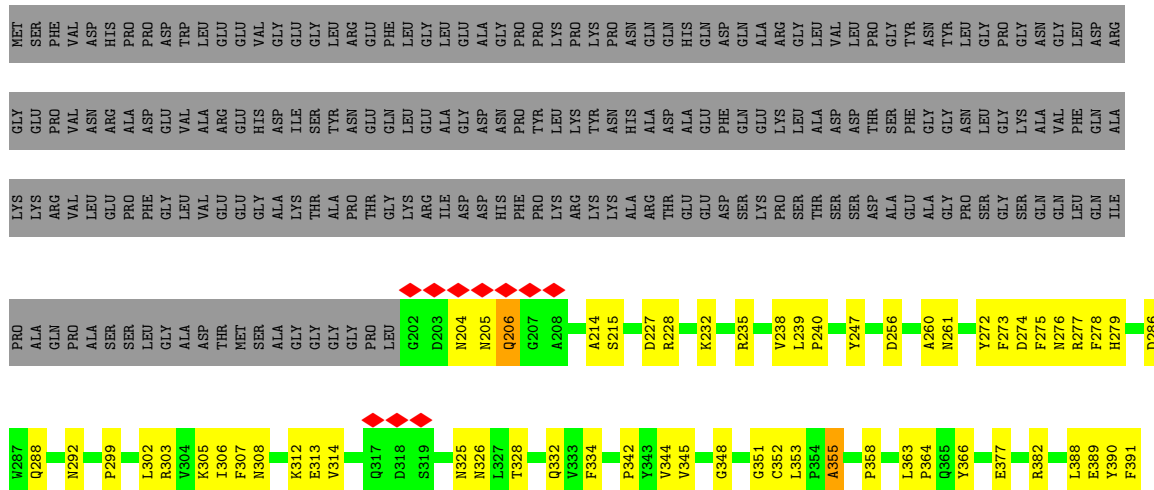
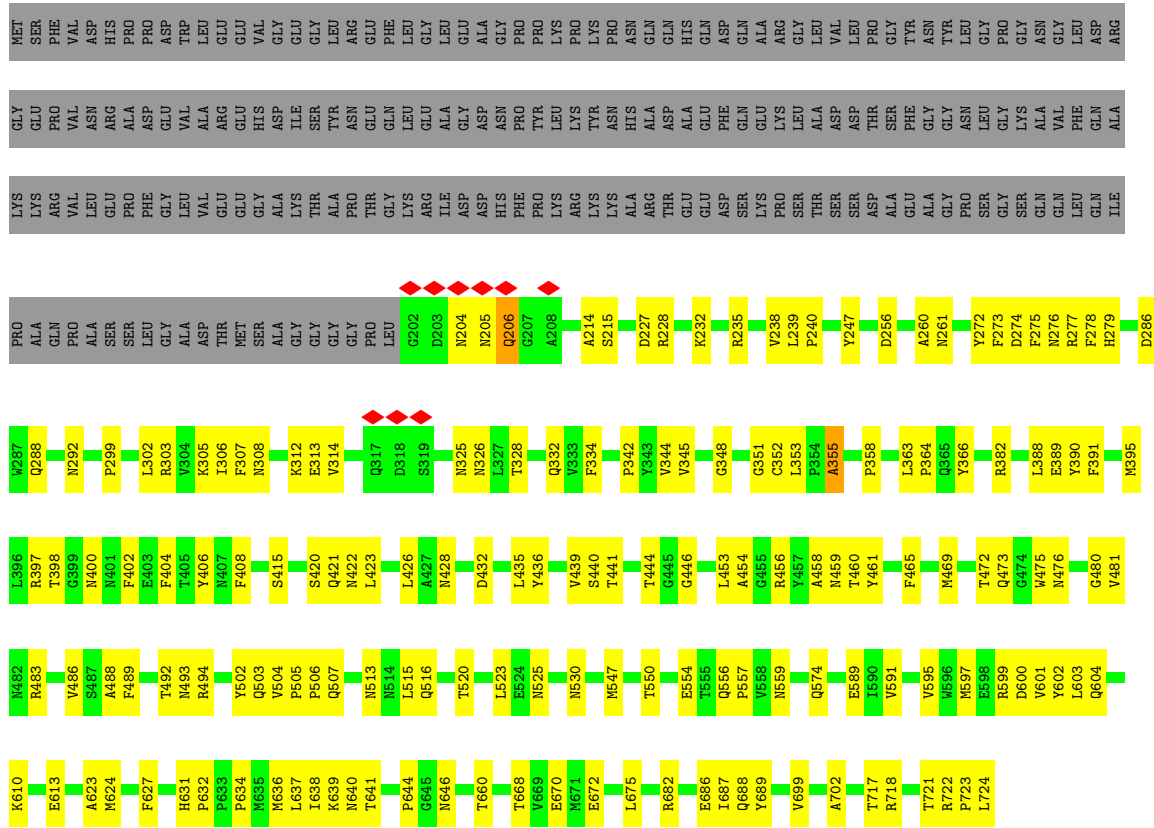


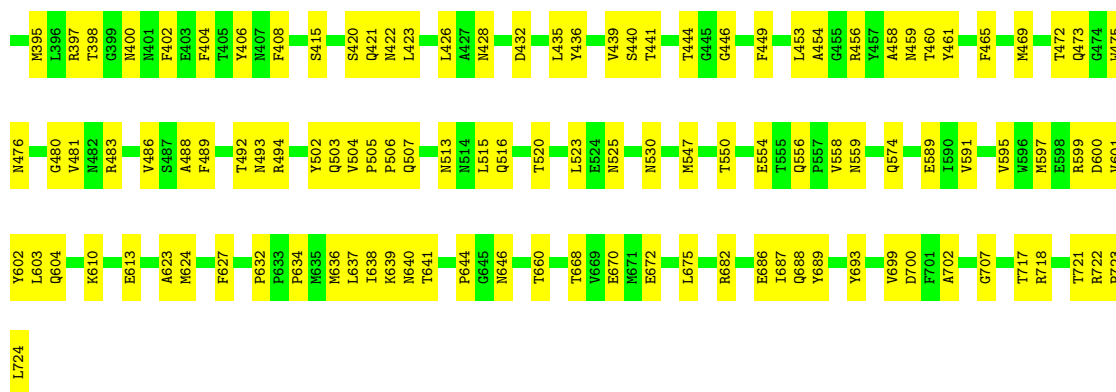
- Molecule 1: Capsid protein



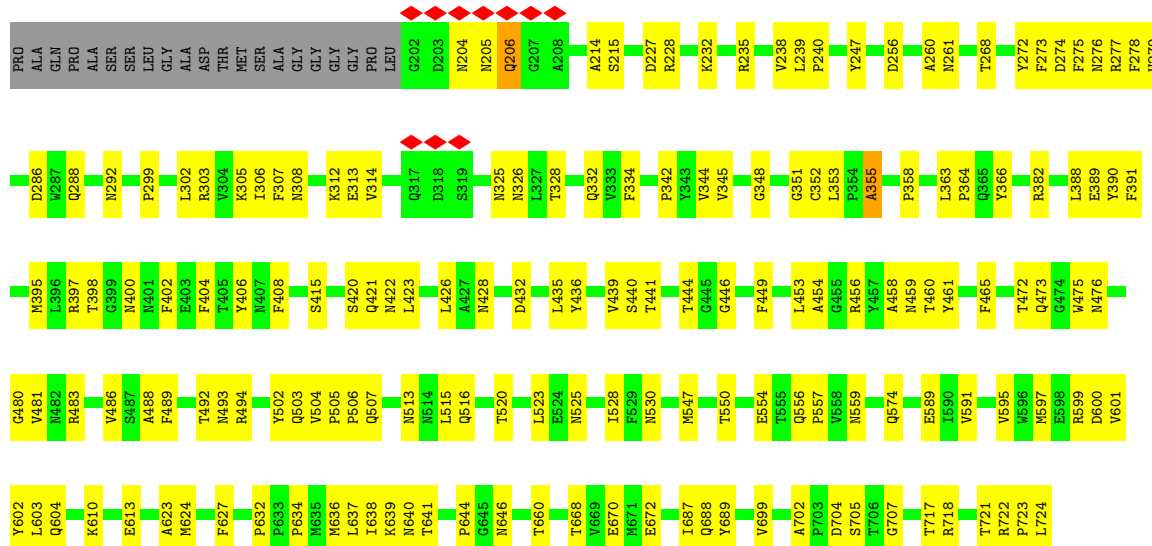
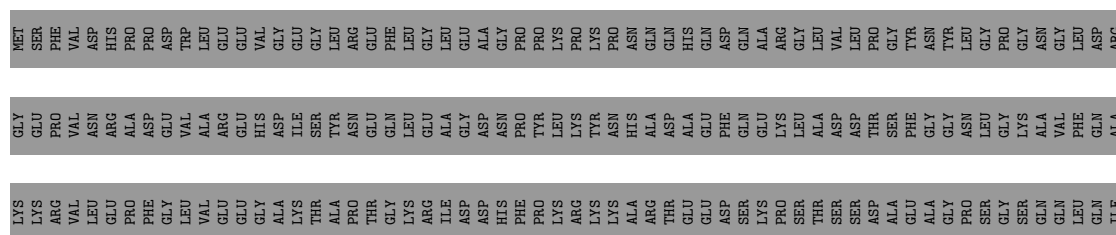
- Molecule 1: Capsid protein



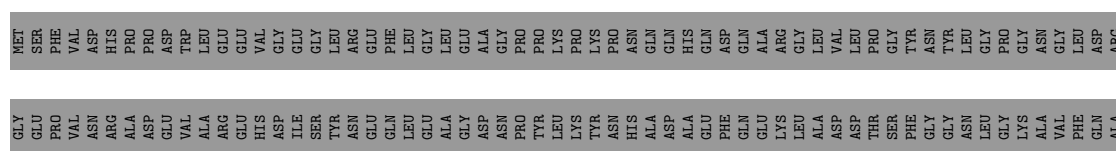


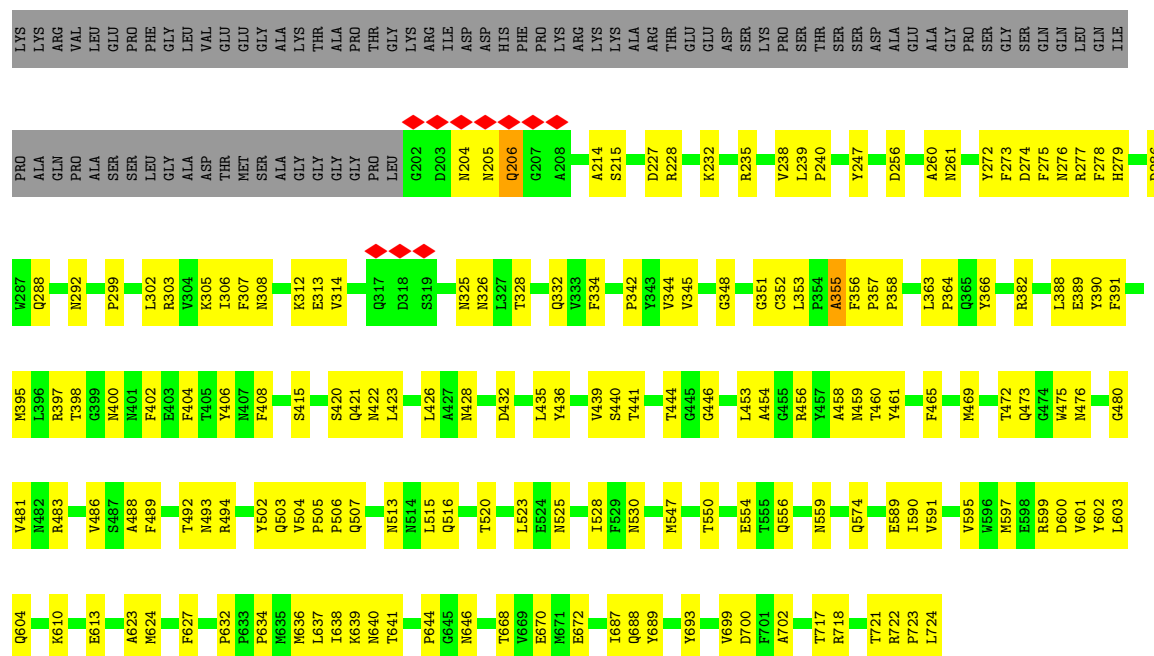


● Molecule 1: Capsid protein

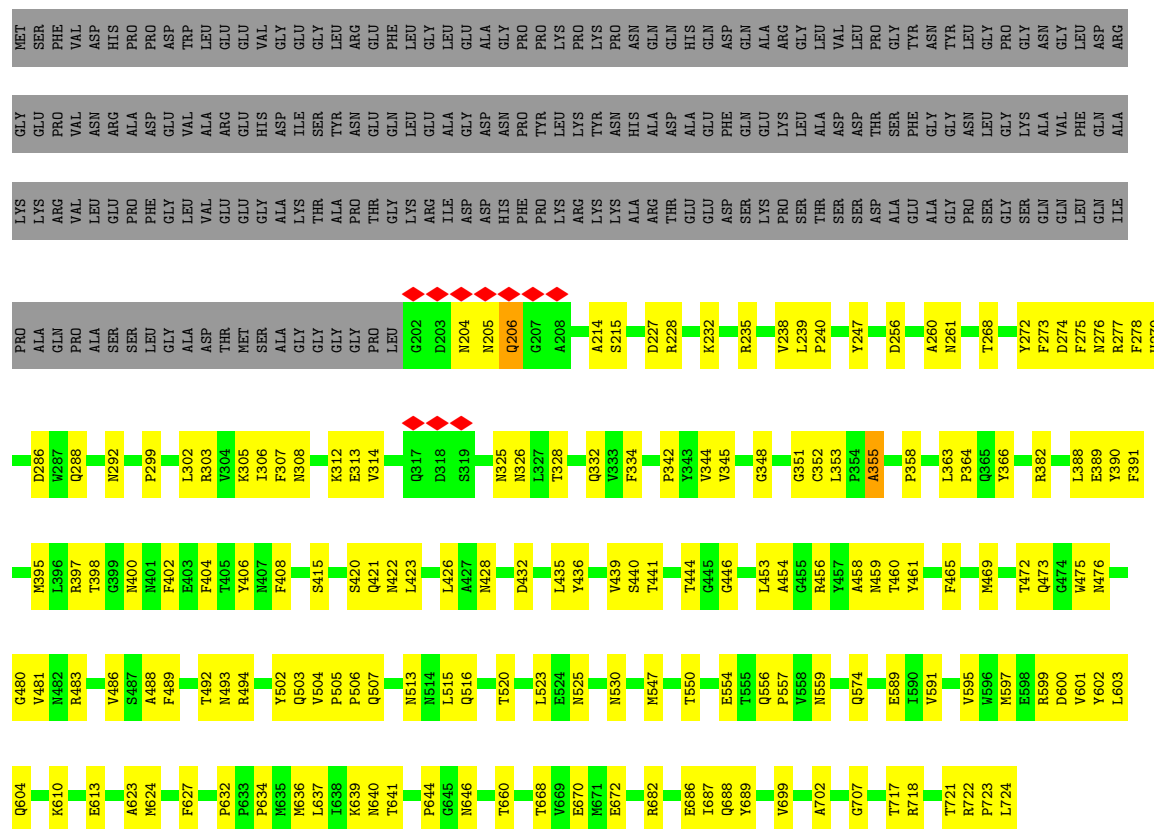


● Molecule 1: Capsid protein





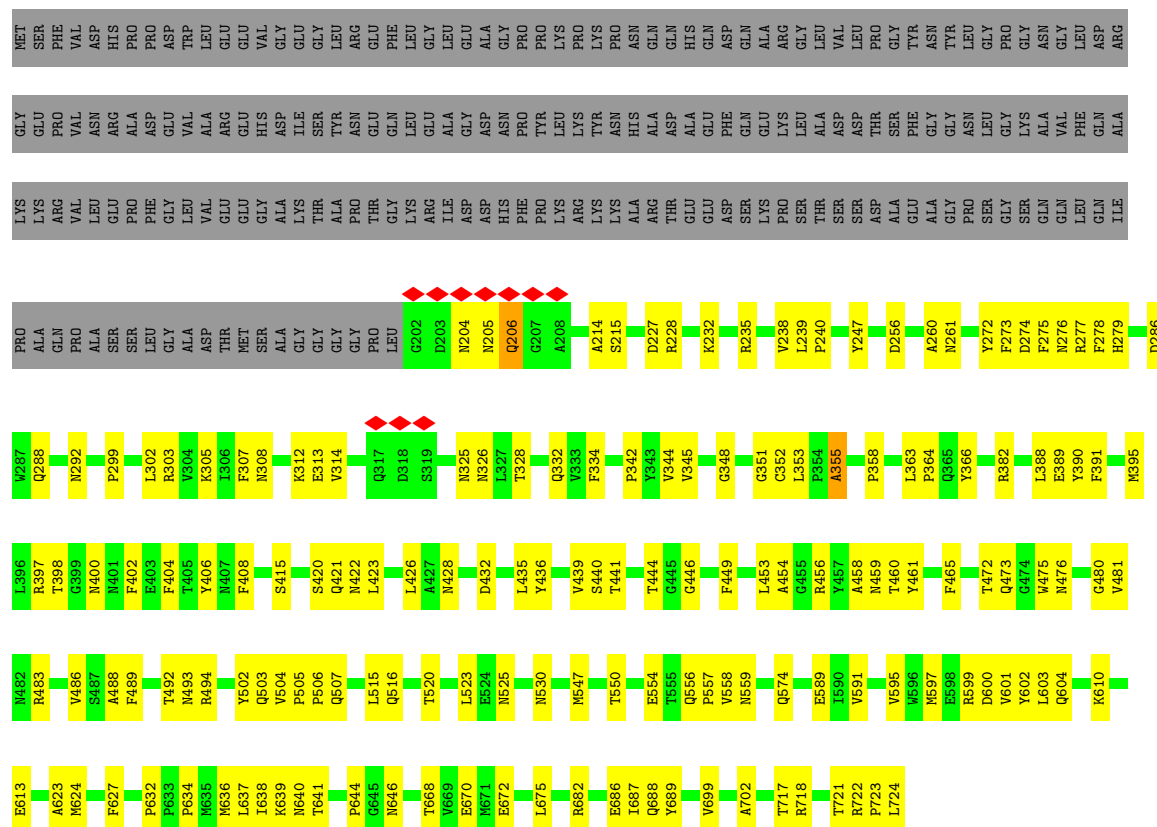
- Molecule 1: Capsid protein



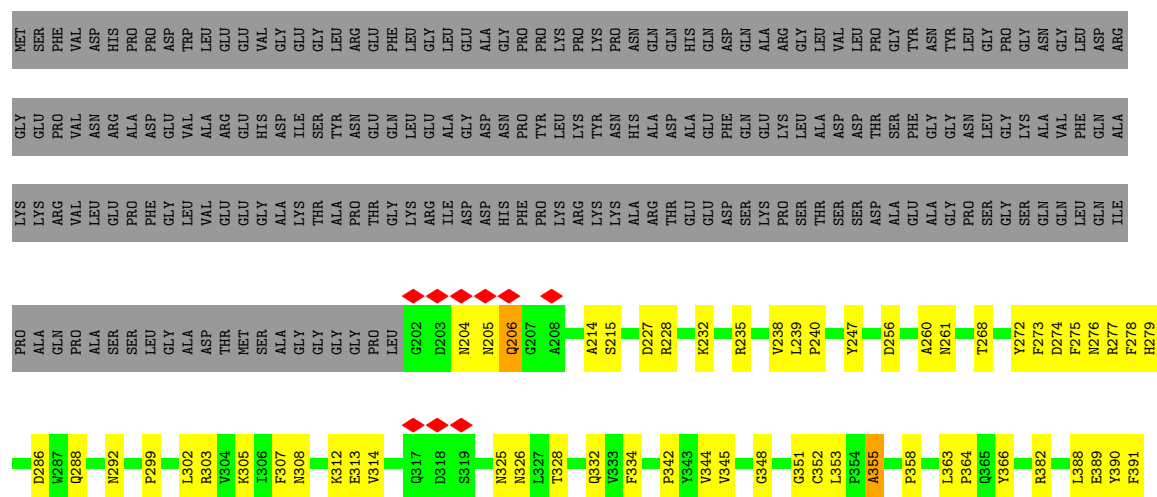
- Molecule 1: Capsid protein



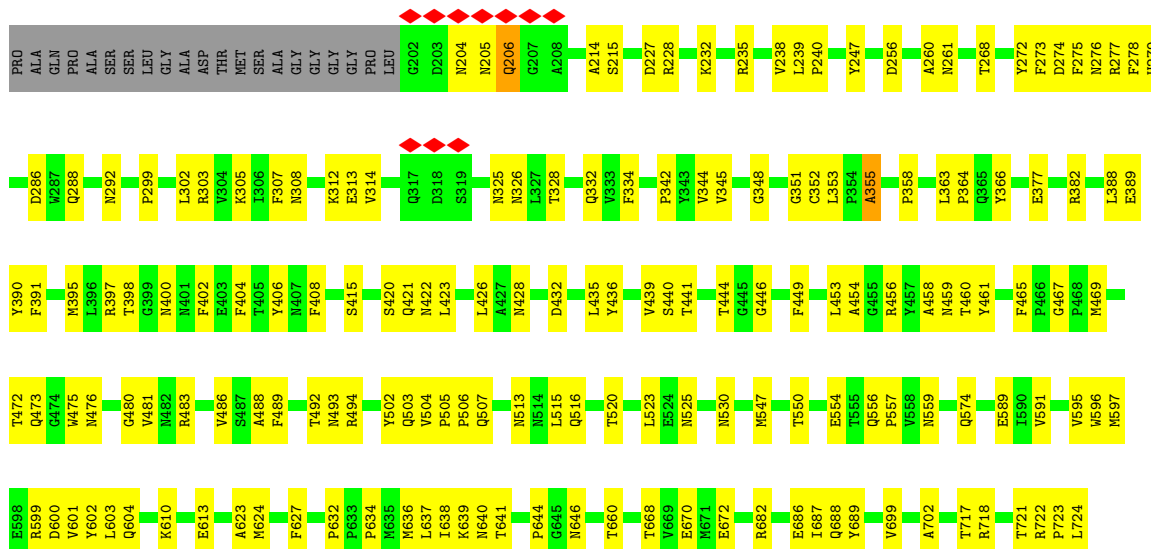
Chain w:



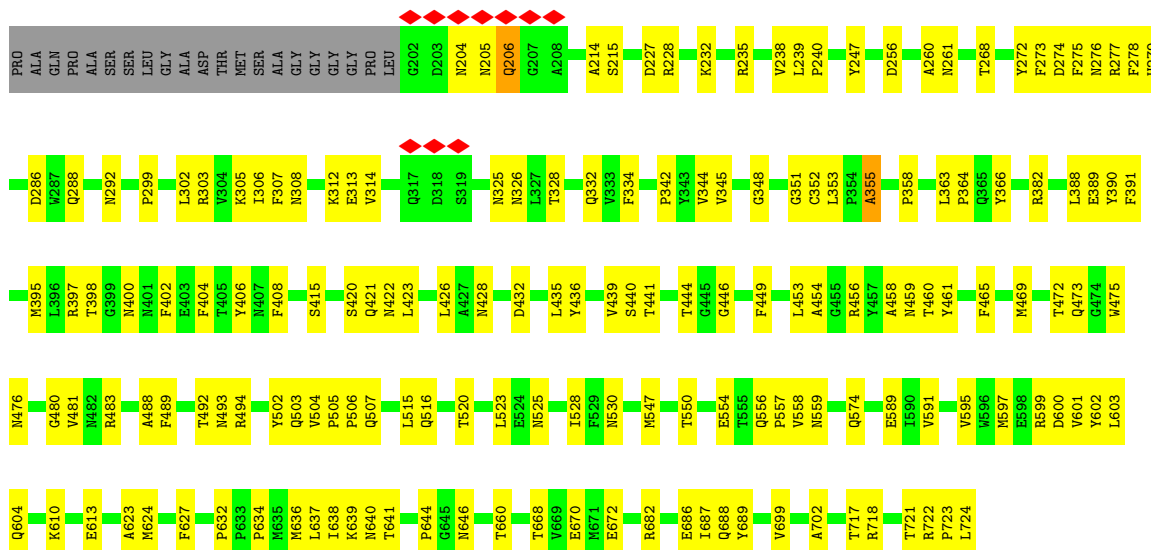
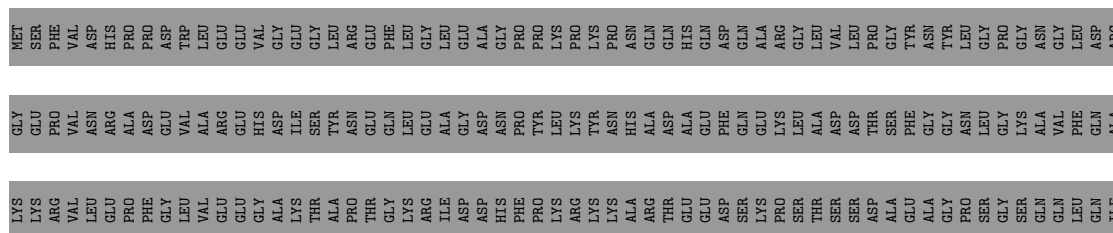
Chain x:



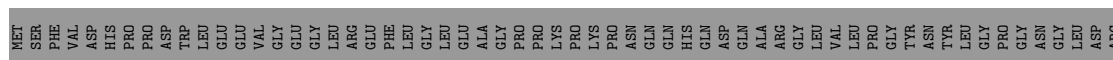


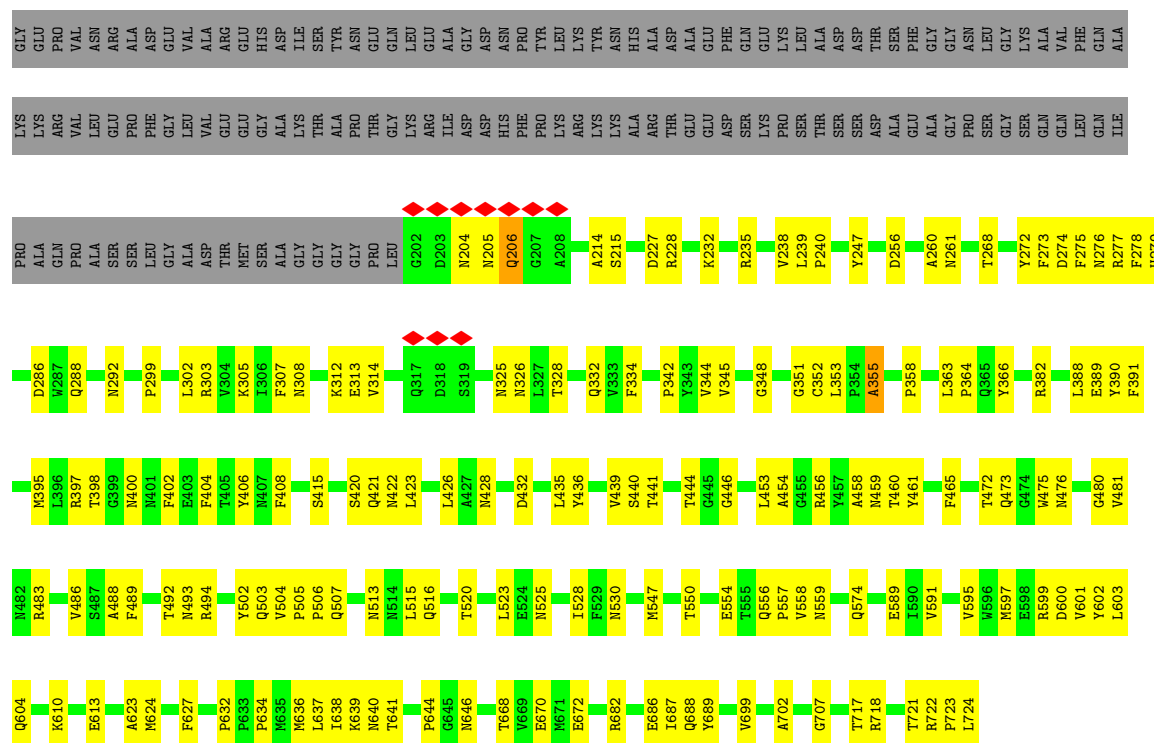


- Molecule 1: Capsid protein

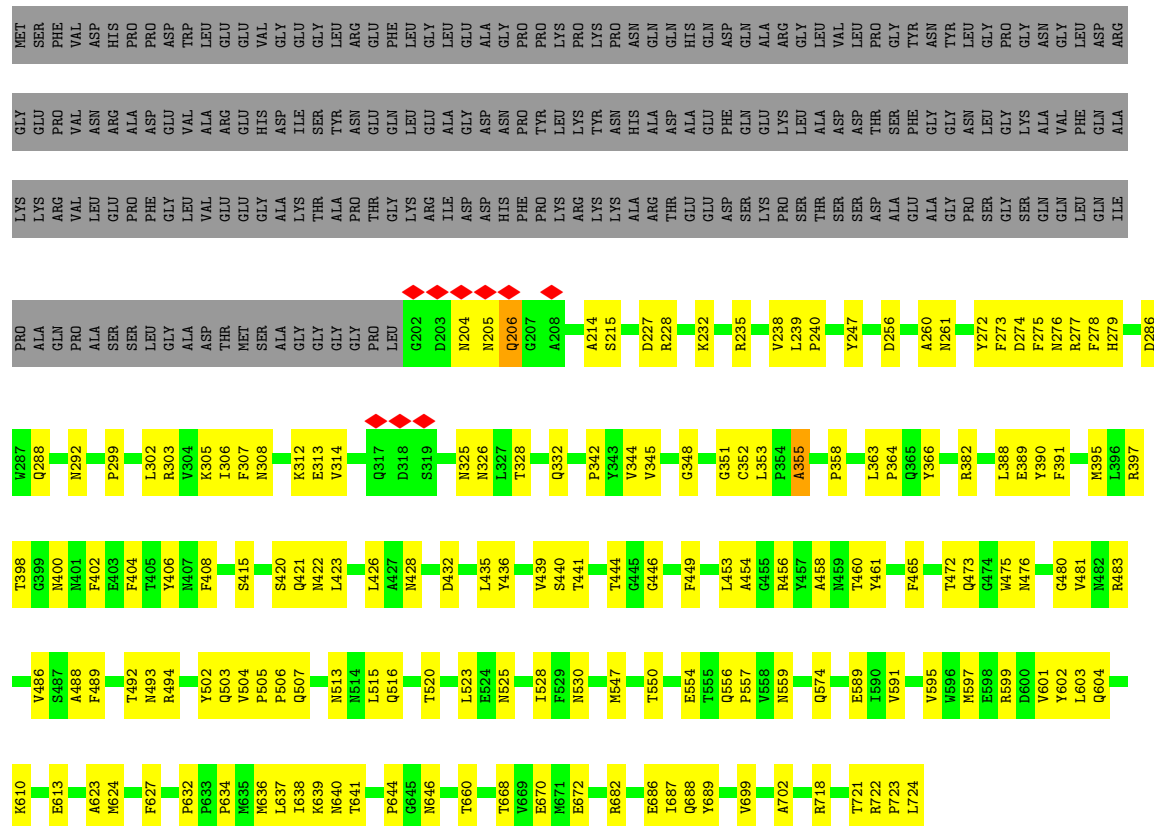


- Molecule 1: Capsid protein

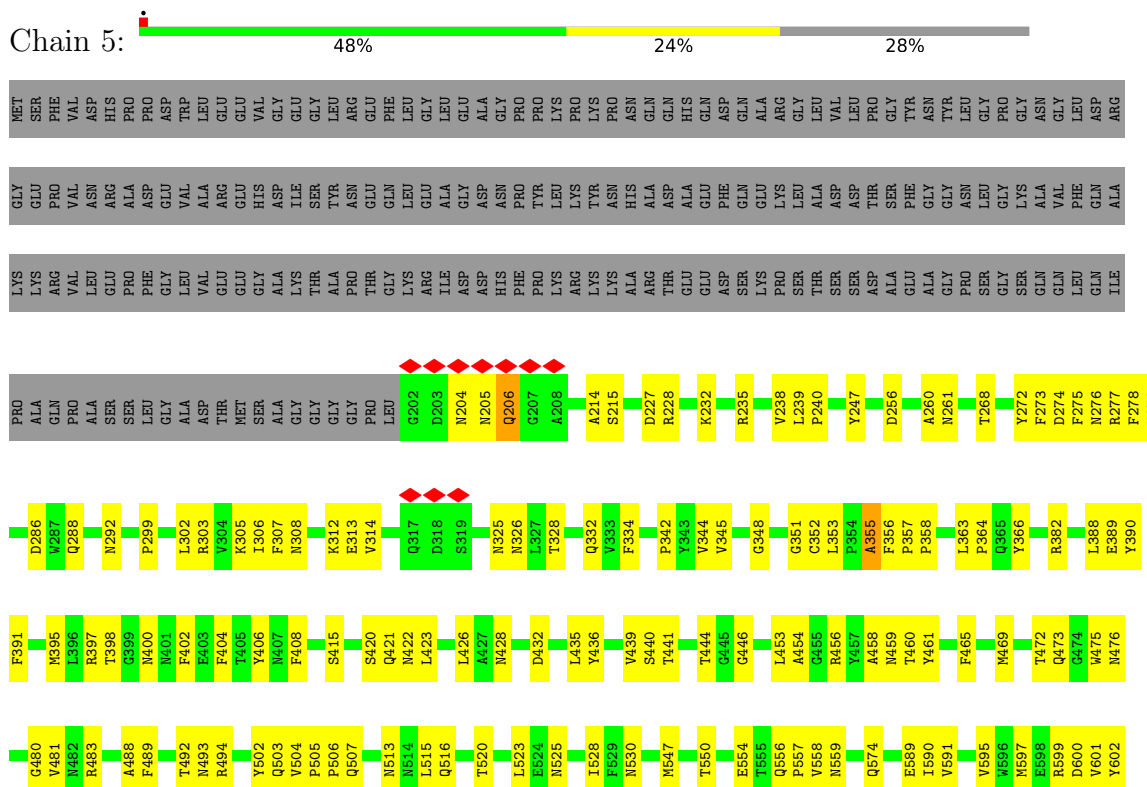
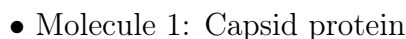


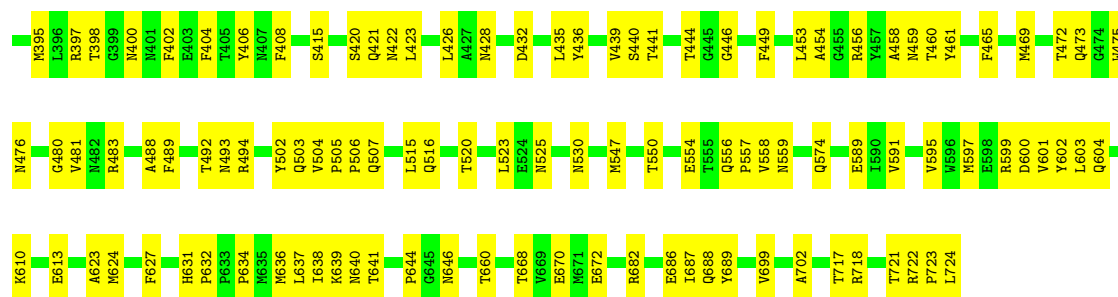


• Molecule 1: Capsid protein

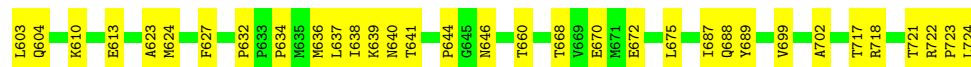
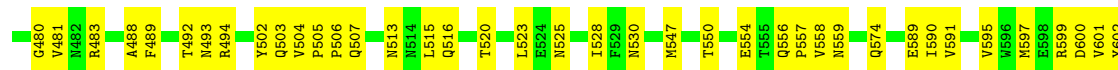
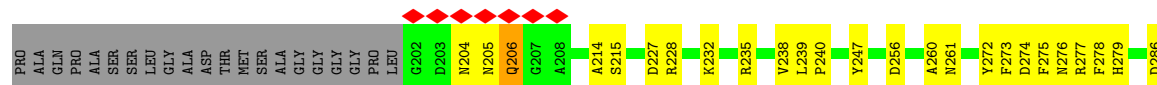
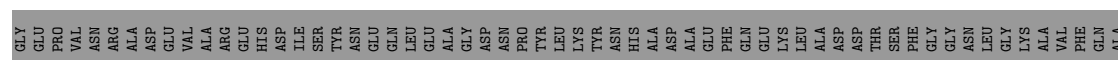
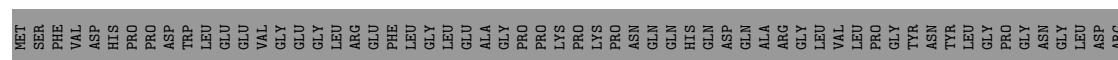


• Molecule 1: Capsid protein





● Molecule 1: Capsid protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	44589	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1260	Depositor
Maximum defocus (nm)	3800	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	22.047	Depositor
Minimum map value	-13.993	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	467.5, 467.5, 467.5	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.935, 0.935, 0.935	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	0.42	0/4285	0.64	4/5855 (0.1%)
1	2	0.42	0/4285	0.64	4/5855 (0.1%)
1	3	0.42	0/4285	0.64	4/5855 (0.1%)
1	4	0.42	0/4285	0.64	4/5855 (0.1%)
1	5	0.42	0/4285	0.64	4/5855 (0.1%)
1	6	0.42	0/4285	0.64	4/5855 (0.1%)
1	7	0.42	0/4285	0.64	4/5855 (0.1%)
1	8	0.42	0/4285	0.64	4/5855 (0.1%)
1	A	0.42	0/4285	0.64	4/5855 (0.1%)
1	B	0.42	0/4285	0.64	4/5855 (0.1%)
1	C	0.42	0/4285	0.64	4/5855 (0.1%)
1	D	0.42	0/4285	0.64	4/5855 (0.1%)
1	E	0.42	0/4285	0.64	4/5855 (0.1%)
1	F	0.42	0/4285	0.64	4/5855 (0.1%)
1	G	0.42	0/4285	0.64	4/5855 (0.1%)
1	H	0.42	0/4285	0.64	4/5855 (0.1%)
1	I	0.42	0/4285	0.64	4/5855 (0.1%)
1	J	0.42	0/4285	0.64	4/5855 (0.1%)
1	K	0.42	0/4285	0.64	4/5855 (0.1%)
1	L	0.42	0/4285	0.64	4/5855 (0.1%)
1	M	0.42	0/4285	0.64	4/5855 (0.1%)
1	N	0.42	0/4285	0.64	4/5855 (0.1%)
1	O	0.42	0/4285	0.64	4/5855 (0.1%)
1	P	0.42	0/4285	0.64	4/5855 (0.1%)
1	Q	0.42	0/4285	0.64	4/5855 (0.1%)
1	R	0.42	0/4285	0.64	4/5855 (0.1%)
1	S	0.42	0/4285	0.64	4/5855 (0.1%)
1	T	0.42	0/4285	0.64	4/5855 (0.1%)
1	U	0.42	0/4285	0.64	4/5855 (0.1%)
1	V	0.42	0/4285	0.64	4/5855 (0.1%)
1	W	0.42	0/4285	0.64	4/5855 (0.1%)
1	X	0.42	0/4285	0.64	4/5855 (0.1%)
1	Y	0.42	0/4285	0.64	4/5855 (0.1%)
1	Z	0.42	0/4285	0.64	4/5855 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.42	0/4285	0.64	4/5855 (0.1%)
1	b	0.42	0/4285	0.64	4/5855 (0.1%)
1	c	0.42	0/4285	0.64	4/5855 (0.1%)
1	d	0.42	0/4285	0.64	4/5855 (0.1%)
1	e	0.42	0/4285	0.64	4/5855 (0.1%)
1	f	0.42	0/4285	0.64	4/5855 (0.1%)
1	g	0.42	0/4285	0.64	4/5855 (0.1%)
1	h	0.42	0/4285	0.64	4/5855 (0.1%)
1	i	0.42	0/4285	0.64	4/5855 (0.1%)
1	j	0.42	0/4285	0.64	4/5855 (0.1%)
1	k	0.42	0/4285	0.64	4/5855 (0.1%)
1	l	0.42	0/4285	0.64	4/5855 (0.1%)
1	m	0.42	0/4285	0.64	4/5855 (0.1%)
1	n	0.42	0/4285	0.64	4/5855 (0.1%)
1	o	0.42	0/4285	0.64	4/5855 (0.1%)
1	p	0.42	0/4285	0.64	4/5855 (0.1%)
1	q	0.42	0/4285	0.64	4/5855 (0.1%)
1	r	0.42	0/4285	0.64	4/5855 (0.1%)
1	s	0.42	0/4285	0.64	4/5855 (0.1%)
1	t	0.42	0/4285	0.64	4/5855 (0.1%)
1	u	0.42	0/4285	0.64	4/5855 (0.1%)
1	v	0.42	0/4285	0.64	4/5855 (0.1%)
1	w	0.42	0/4285	0.64	4/5855 (0.1%)
1	x	0.42	0/4285	0.64	4/5855 (0.1%)
1	y	0.42	0/4285	0.64	4/5855 (0.1%)
1	z	0.42	0/4285	0.64	4/5855 (0.1%)
All	All	0.42	0/257100	0.64	240/351300 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	1
1	5	0	1
1	6	0	1
1	7	0	1
1	8	0	1
1	A	0	1
1	B	0	1
1	C	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	D	0	1
1	F	0	1
1	G	0	1
1	I	0	1
1	K	0	1
1	L	0	1
1	N	0	1
1	O	0	1
1	P	0	1
1	Q	0	1
1	R	0	1
1	T	0	1
1	U	0	1
1	V	0	1
1	W	0	1
1	Y	0	1
1	a	0	1
1	b	0	1
1	d	0	1
1	e	0	1
1	g	0	1
1	h	0	1
1	i	0	1
1	j	0	1
1	l	0	1
1	o	0	1
1	p	0	1
1	q	0	1
1	s	0	1
1	t	0	1
1	u	0	1
1	x	0	1
1	y	0	1
1	z	0	1
All	All	0	42

There are no bond length outliers.

All (240) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	444	THR	CA-C-N	-6.25	115.36	120.98
1	s	444	THR	C-N-CA	-6.25	115.36	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	444	THR	CA-C-N	-6.23	115.38	120.98
1	h	444	THR	C-N-CA	-6.23	115.38	120.98
1	K	444	THR	CA-C-N	-6.22	115.39	120.98
1	K	444	THR	C-N-CA	-6.22	115.39	120.98
1	Q	444	THR	CA-C-N	-6.22	115.39	120.98
1	Q	444	THR	C-N-CA	-6.22	115.39	120.98
1	p	444	THR	CA-C-N	-6.22	115.39	120.98
1	p	444	THR	C-N-CA	-6.22	115.39	120.98
1	F	444	THR	CA-C-N	-6.21	115.39	120.98
1	F	444	THR	C-N-CA	-6.21	115.39	120.98
1	v	444	THR	CA-C-N	-6.21	115.39	120.98
1	v	444	THR	C-N-CA	-6.21	115.39	120.98
1	r	444	THR	CA-C-N	-6.21	115.39	120.98
1	r	444	THR	C-N-CA	-6.21	115.39	120.98
1	B	444	THR	CA-C-N	-6.21	115.39	120.98
1	B	444	THR	C-N-CA	-6.21	115.39	120.98
1	i	444	THR	CA-C-N	-6.21	115.39	120.98
1	i	444	THR	C-N-CA	-6.21	115.39	120.98
1	n	444	THR	CA-C-N	-6.21	115.39	120.98
1	n	444	THR	C-N-CA	-6.21	115.39	120.98
1	y	444	THR	CA-C-N	-6.21	115.39	120.98
1	y	444	THR	C-N-CA	-6.21	115.39	120.98
1	L	444	THR	CA-C-N	-6.21	115.39	120.98
1	L	444	THR	C-N-CA	-6.21	115.39	120.98
1	U	444	THR	CA-C-N	-6.21	115.39	120.98
1	U	444	THR	C-N-CA	-6.21	115.39	120.98
1	z	444	THR	CA-C-N	-6.21	115.39	120.98
1	z	444	THR	C-N-CA	-6.21	115.39	120.98
1	a	444	THR	CA-C-N	-6.21	115.40	120.98
1	a	444	THR	C-N-CA	-6.21	115.40	120.98
1	c	444	THR	CA-C-N	-6.21	115.40	120.98
1	c	444	THR	C-N-CA	-6.21	115.40	120.98
1	d	444	THR	CA-C-N	-6.21	115.40	120.98
1	d	444	THR	C-N-CA	-6.21	115.40	120.98
1	f	444	THR	CA-C-N	-6.21	115.40	120.98
1	f	444	THR	C-N-CA	-6.21	115.40	120.98
1	w	444	THR	CA-C-N	-6.21	115.39	120.98
1	w	444	THR	C-N-CA	-6.21	115.39	120.98
1	D	444	THR	CA-C-N	-6.20	115.40	120.98
1	D	444	THR	C-N-CA	-6.20	115.40	120.98
1	G	444	THR	CA-C-N	-6.20	115.40	120.98
1	G	444	THR	C-N-CA	-6.20	115.40	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	444	THR	CA-C-N	-6.20	115.40	120.98
1	O	444	THR	C-N-CA	-6.20	115.40	120.98
1	l	444	THR	CA-C-N	-6.20	115.40	120.98
1	l	444	THR	C-N-CA	-6.20	115.40	120.98
1	8	444	THR	CA-C-N	-6.20	115.40	120.98
1	8	444	THR	C-N-CA	-6.20	115.40	120.98
1	x	444	THR	CA-C-N	-6.20	115.40	120.98
1	x	444	THR	C-N-CA	-6.20	115.40	120.98
1	T	444	THR	CA-C-N	-6.20	115.40	120.98
1	T	444	THR	C-N-CA	-6.20	115.40	120.98
1	m	444	THR	CA-C-N	-6.20	115.40	120.98
1	m	444	THR	C-N-CA	-6.20	115.40	120.98
1	4	444	THR	CA-C-N	-6.20	115.40	120.98
1	4	444	THR	C-N-CA	-6.20	115.40	120.98
1	W	444	THR	CA-C-N	-6.19	115.41	120.98
1	W	444	THR	C-N-CA	-6.19	115.41	120.98
1	6	444	THR	CA-C-N	-6.19	115.41	120.98
1	6	444	THR	C-N-CA	-6.19	115.41	120.98
1	J	444	THR	CA-C-N	-6.19	115.41	120.98
1	J	444	THR	C-N-CA	-6.19	115.41	120.98
1	S	444	THR	CA-C-N	-6.19	115.41	120.98
1	S	444	THR	C-N-CA	-6.19	115.41	120.98
1	2	444	THR	CA-C-N	-6.19	115.41	120.98
1	2	444	THR	C-N-CA	-6.19	115.41	120.98
1	H	444	THR	CA-C-N	-6.19	115.41	120.98
1	H	444	THR	C-N-CA	-6.19	115.41	120.98
1	A	444	THR	CA-C-N	-6.18	115.42	120.98
1	A	444	THR	C-N-CA	-6.18	115.42	120.98
1	M	444	THR	CA-C-N	-6.18	115.42	120.98
1	M	444	THR	C-N-CA	-6.18	115.42	120.98
1	Z	444	THR	CA-C-N	-6.18	115.42	120.98
1	Z	444	THR	C-N-CA	-6.18	115.42	120.98
1	b	444	THR	CA-C-N	-6.18	115.42	120.98
1	b	444	THR	C-N-CA	-6.18	115.42	120.98
1	e	444	THR	CA-C-N	-6.18	115.42	120.98
1	e	444	THR	C-N-CA	-6.18	115.42	120.98
1	3	444	THR	CA-C-N	-6.18	115.42	120.98
1	3	444	THR	C-N-CA	-6.18	115.42	120.98
1	t	444	THR	CA-C-N	-6.18	115.42	120.98
1	t	444	THR	C-N-CA	-6.18	115.42	120.98
1	5	444	THR	CA-C-N	-6.18	115.42	120.98
1	5	444	THR	C-N-CA	-6.18	115.42	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	444	THR	CA-C-N	-6.17	115.42	120.98
1	X	444	THR	C-N-CA	-6.17	115.42	120.98
1	u	444	THR	CA-C-N	-6.17	115.42	120.98
1	u	444	THR	C-N-CA	-6.17	115.42	120.98
1	k	444	THR	CA-C-N	-6.17	115.43	120.98
1	k	444	THR	C-N-CA	-6.17	115.43	120.98
1	q	444	THR	CA-C-N	-6.17	115.43	120.98
1	q	444	THR	C-N-CA	-6.17	115.43	120.98
1	C	444	THR	CA-C-N	-6.16	115.44	120.98
1	C	444	THR	C-N-CA	-6.16	115.44	120.98
1	I	444	THR	CA-C-N	-6.16	115.44	120.98
1	I	444	THR	C-N-CA	-6.16	115.44	120.98
1	V	444	THR	CA-C-N	-6.16	115.44	120.98
1	V	444	THR	C-N-CA	-6.16	115.44	120.98
1	g	444	THR	CA-C-N	-6.16	115.44	120.98
1	g	444	THR	C-N-CA	-6.16	115.44	120.98
1	7	444	THR	CA-C-N	-6.16	115.44	120.98
1	7	444	THR	C-N-CA	-6.16	115.44	120.98
1	P	444	THR	CA-C-N	-6.15	115.44	120.98
1	P	444	THR	C-N-CA	-6.15	115.44	120.98
1	j	444	THR	CA-C-N	-6.15	115.44	120.98
1	j	444	THR	C-N-CA	-6.15	115.44	120.98
1	o	444	THR	CA-C-N	-6.15	115.44	120.98
1	o	444	THR	C-N-CA	-6.15	115.44	120.98
1	R	444	THR	CA-C-N	-6.15	115.45	120.98
1	R	444	THR	C-N-CA	-6.15	115.45	120.98
1	Y	444	THR	CA-C-N	-6.15	115.45	120.98
1	Y	444	THR	C-N-CA	-6.15	115.45	120.98
1	1	444	THR	CA-C-N	-6.15	115.45	120.98
1	1	444	THR	C-N-CA	-6.15	115.45	120.98
1	N	444	THR	CA-C-N	-6.14	115.46	120.98
1	N	444	THR	C-N-CA	-6.14	115.46	120.98
1	E	444	THR	CA-C-N	-6.09	115.50	120.98
1	E	444	THR	C-N-CA	-6.09	115.50	120.98
1	D	355	ALA	CA-C-N	5.29	131.64	122.28
1	D	355	ALA	C-N-CA	5.29	131.64	122.28
1	6	355	ALA	CA-C-N	5.29	131.64	122.28
1	6	355	ALA	C-N-CA	5.29	131.64	122.28
1	5	355	ALA	CA-C-N	5.29	131.63	122.28
1	5	355	ALA	C-N-CA	5.29	131.63	122.28
1	k	355	ALA	CA-C-N	5.28	131.63	122.28
1	k	355	ALA	C-N-CA	5.28	131.63	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	355	ALA	CA-C-N	5.28	131.62	122.28
1	R	355	ALA	C-N-CA	5.28	131.62	122.28
1	d	355	ALA	CA-C-N	5.28	131.62	122.28
1	d	355	ALA	C-N-CA	5.28	131.62	122.28
1	l	355	ALA	CA-C-N	5.28	131.62	122.28
1	l	355	ALA	C-N-CA	5.28	131.62	122.28
1	3	355	ALA	CA-C-N	5.28	131.62	122.28
1	3	355	ALA	C-N-CA	5.28	131.62	122.28
1	Q	355	ALA	CA-C-N	5.28	131.62	122.28
1	Q	355	ALA	C-N-CA	5.28	131.62	122.28
1	a	355	ALA	CA-C-N	5.28	131.62	122.28
1	a	355	ALA	C-N-CA	5.28	131.62	122.28
1	n	355	ALA	CA-C-N	5.28	131.62	122.28
1	n	355	ALA	C-N-CA	5.28	131.62	122.28
1	q	355	ALA	CA-C-N	5.28	131.62	122.28
1	q	355	ALA	C-N-CA	5.28	131.62	122.28
1	x	355	ALA	CA-C-N	5.27	131.61	122.28
1	x	355	ALA	C-N-CA	5.27	131.61	122.28
1	O	355	ALA	CA-C-N	5.27	131.61	122.28
1	O	355	ALA	C-N-CA	5.27	131.61	122.28
1	l	355	ALA	CA-C-N	5.27	131.61	122.28
1	l	355	ALA	C-N-CA	5.27	131.61	122.28
1	8	355	ALA	CA-C-N	5.27	131.61	122.28
1	8	355	ALA	C-N-CA	5.27	131.61	122.28
1	F	355	ALA	CA-C-N	5.27	131.61	122.28
1	F	355	ALA	C-N-CA	5.27	131.61	122.28
1	J	355	ALA	CA-C-N	5.27	131.61	122.28
1	J	355	ALA	C-N-CA	5.27	131.61	122.28
1	M	355	ALA	CA-C-N	5.27	131.61	122.28
1	M	355	ALA	C-N-CA	5.27	131.61	122.28
1	S	355	ALA	CA-C-N	5.27	131.61	122.28
1	S	355	ALA	C-N-CA	5.27	131.61	122.28
1	m	355	ALA	CA-C-N	5.27	131.61	122.28
1	m	355	ALA	C-N-CA	5.27	131.61	122.28
1	y	355	ALA	CA-C-N	5.27	131.61	122.28
1	y	355	ALA	C-N-CA	5.27	131.61	122.28
1	2	355	ALA	CA-C-N	5.27	131.61	122.28
1	2	355	ALA	C-N-CA	5.27	131.61	122.28
1	s	355	ALA	CA-C-N	5.27	131.60	122.28
1	s	355	ALA	C-N-CA	5.27	131.60	122.28
1	L	355	ALA	CA-C-N	5.26	131.60	122.28
1	L	355	ALA	C-N-CA	5.26	131.60	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	355	ALA	CA-C-N	5.26	131.60	122.28
1	U	355	ALA	C-N-CA	5.26	131.60	122.28
1	z	355	ALA	CA-C-N	5.26	131.60	122.28
1	z	355	ALA	C-N-CA	5.26	131.60	122.28
1	4	355	ALA	CA-C-N	5.26	131.60	122.28
1	4	355	ALA	C-N-CA	5.26	131.60	122.28
1	E	355	ALA	CA-C-N	5.26	131.59	122.28
1	E	355	ALA	C-N-CA	5.26	131.59	122.28
1	A	355	ALA	CA-C-N	5.26	131.59	122.28
1	A	355	ALA	C-N-CA	5.26	131.59	122.28
1	H	355	ALA	CA-C-N	5.26	131.59	122.28
1	H	355	ALA	C-N-CA	5.26	131.59	122.28
1	b	355	ALA	CA-C-N	5.26	131.59	122.28
1	b	355	ALA	C-N-CA	5.26	131.59	122.28
1	c	355	ALA	CA-C-N	5.26	131.59	122.28
1	c	355	ALA	C-N-CA	5.26	131.59	122.28
1	e	355	ALA	CA-C-N	5.26	131.59	122.28
1	e	355	ALA	C-N-CA	5.26	131.59	122.28
1	f	355	ALA	CA-C-N	5.26	131.59	122.28
1	f	355	ALA	C-N-CA	5.26	131.59	122.28
1	K	355	ALA	CA-C-N	5.26	131.58	122.28
1	K	355	ALA	C-N-CA	5.26	131.58	122.28
1	u	355	ALA	CA-C-N	5.26	131.58	122.28
1	u	355	ALA	C-N-CA	5.26	131.58	122.28
1	X	355	ALA	CA-C-N	5.25	131.58	122.28
1	X	355	ALA	C-N-CA	5.25	131.58	122.28
1	Z	355	ALA	CA-C-N	5.25	131.58	122.28
1	Z	355	ALA	C-N-CA	5.25	131.58	122.28
1	w	355	ALA	CA-C-N	5.25	131.58	122.28
1	w	355	ALA	C-N-CA	5.25	131.58	122.28
1	G	355	ALA	CA-C-N	5.25	131.57	122.28
1	G	355	ALA	C-N-CA	5.25	131.57	122.28
1	I	355	ALA	CA-C-N	5.25	131.57	122.28
1	I	355	ALA	C-N-CA	5.25	131.57	122.28
1	T	355	ALA	CA-C-N	5.25	131.57	122.28
1	T	355	ALA	C-N-CA	5.25	131.57	122.28
1	r	355	ALA	CA-C-N	5.25	131.56	122.28
1	r	355	ALA	C-N-CA	5.25	131.56	122.28
1	v	355	ALA	CA-C-N	5.25	131.56	122.28
1	v	355	ALA	C-N-CA	5.25	131.56	122.28
1	j	355	ALA	CA-C-N	5.25	131.56	122.28
1	j	355	ALA	C-N-CA	5.25	131.56	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	355	ALA	CA-C-N	5.24	131.56	122.28
1	h	355	ALA	C-N-CA	5.24	131.56	122.28
1	i	355	ALA	CA-C-N	5.24	131.56	122.28
1	i	355	ALA	C-N-CA	5.24	131.56	122.28
1	o	355	ALA	CA-C-N	5.24	131.56	122.28
1	o	355	ALA	C-N-CA	5.24	131.56	122.28
1	B	355	ALA	CA-C-N	5.24	131.55	122.28
1	B	355	ALA	C-N-CA	5.24	131.55	122.28
1	N	355	ALA	CA-C-N	5.24	131.56	122.28
1	N	355	ALA	C-N-CA	5.24	131.56	122.28
1	W	355	ALA	CA-C-N	5.24	131.55	122.28
1	W	355	ALA	C-N-CA	5.24	131.55	122.28
1	Y	355	ALA	CA-C-N	5.24	131.56	122.28
1	Y	355	ALA	C-N-CA	5.24	131.56	122.28
1	t	355	ALA	CA-C-N	5.24	131.55	122.28
1	t	355	ALA	C-N-CA	5.24	131.55	122.28
1	C	355	ALA	CA-C-N	5.24	131.55	122.28
1	C	355	ALA	C-N-CA	5.24	131.55	122.28
1	V	355	ALA	CA-C-N	5.24	131.55	122.28
1	V	355	ALA	C-N-CA	5.24	131.55	122.28
1	P	355	ALA	CA-C-N	5.23	131.54	122.28
1	P	355	ALA	C-N-CA	5.23	131.54	122.28
1	7	355	ALA	CA-C-N	5.23	131.54	122.28
1	7	355	ALA	C-N-CA	5.23	131.54	122.28
1	g	355	ALA	CA-C-N	5.23	131.53	122.28
1	g	355	ALA	C-N-CA	5.23	131.53	122.28
1	p	355	ALA	CA-C-N	5.23	131.53	122.28
1	p	355	ALA	C-N-CA	5.23	131.53	122.28

There are no chirality outliers.

All (42) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	469	MET	Peptide
1	5	469	MET	Peptide
1	6	469	MET	Peptide
1	7	469	MET	Peptide
1	8	469	MET	Peptide
1	A	469	MET	Peptide
1	B	469	MET	Peptide
1	C	469	MET	Peptide
1	D	469	MET	Peptide

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Mol	Chain	Res	Type	Group
1	F	469	MET	Peptide
1	G	469	MET	Peptide
1	I	469	MET	Peptide
1	K	469	MET	Peptide
1	L	469	MET	Peptide
1	N	469	MET	Peptide
1	O	469	MET	Peptide
1	P	469	MET	Peptide
1	Q	469	MET	Peptide
1	R	469	MET	Peptide
1	T	469	MET	Peptide
1	U	469	MET	Peptide
1	V	469	MET	Peptide
1	W	469	MET	Peptide
1	Y	469	MET	Peptide
1	a	469	MET	Peptide
1	b	469	MET	Peptide
1	d	469	MET	Peptide
1	e	469	MET	Peptide
1	g	469	MET	Peptide
1	h	469	MET	Peptide
1	i	469	MET	Peptide
1	j	469	MET	Peptide
1	l	469	MET	Peptide
1	o	469	MET	Peptide
1	p	469	MET	Peptide
1	q	469	MET	Peptide
1	s	469	MET	Peptide
1	t	469	MET	Peptide
1	u	469	MET	Peptide
1	x	469	MET	Peptide
1	y	469	MET	Peptide
1	z	469	MET	Peptide

5.2 Too-close contacts ⓘ

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	4157	0	3893	140	0
1	2	4157	0	3893	138	0
1	3	4157	0	3893	138	0
1	4	4157	0	3893	137	0
1	5	4157	0	3893	140	0
1	6	4157	0	3893	139	0
1	7	4157	0	3893	139	0
1	8	4157	0	3893	140	0
1	A	4157	0	3893	138	0
1	B	4157	0	3893	142	0
1	C	4157	0	3893	140	0
1	D	4157	0	3893	136	0
1	E	4157	0	3893	136	0
1	F	4157	0	3893	135	0
1	G	4157	0	3893	136	0
1	H	4157	0	3893	147	0
1	I	4157	0	3893	135	0
1	J	4157	0	3893	137	0
1	K	4157	0	3893	136	0
1	L	4157	0	3893	135	0
1	M	4157	0	3893	141	0
1	N	4157	0	3893	138	0
1	O	4157	0	3893	144	0
1	P	4157	0	3893	136	0
1	Q	4157	0	3893	137	0
1	R	4157	0	3893	139	0
1	S	4157	0	3893	139	0
1	T	4157	0	3893	144	0
1	U	4157	0	3893	138	0
1	V	4157	0	3893	140	0
1	W	4157	0	3893	139	0
1	X	4157	0	3893	137	0
1	Y	4157	0	3893	139	0
1	Z	4157	0	3893	143	0
1	a	4157	0	3893	135	0
1	b	4157	0	3893	144	0
1	c	4157	0	3893	136	0
1	d	4157	0	3893	141	0
1	e	4157	0	3893	140	0
1	f	4157	0	3893	142	0
1	g	4157	0	3893	140	0
1	h	4157	0	3893	140	0
1	i	4157	0	3893	136	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4157	0	3893	137	0
1	k	4157	0	3893	137	0
1	l	4157	0	3893	144	0
1	m	4157	0	3893	142	0
1	n	4157	0	3893	141	0
1	o	4157	0	3893	141	0
1	p	4157	0	3893	137	0
1	q	4157	0	3893	140	0
1	r	4157	0	3893	139	0
1	s	4157	0	3893	138	0
1	t	4157	0	3893	138	0
1	u	4157	0	3893	134	0
1	v	4157	0	3893	137	0
1	w	4157	0	3893	135	0
1	x	4157	0	3893	138	0
1	y	4157	0	3893	137	0
1	z	4157	0	3893	135	0
All	All	249420	0	233580	6730	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 (6730) 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:W:272:TYR:HB3	1:W:637:LEU:HD23	1.66	0.78
1:6:272:TYR:HB3	1:6:637:LEU:HD23	1.66	0.78
1:b:272:TYR:HB3	1:b:637:LEU:HD23	1.66	0.78
1:f:272:TYR:HB3	1:f:637:LEU:HD23	1.66	0.78
1:C:272:TYR:HB3	1:C:637:LEU:HD23	1.66	0.78
1:g:272:TYR:HB3	1:g:637:LEU:HD23	1.66	0.78
1:q:272:TYR:HB3	1:q:637:LEU:HD23	1.66	0.78
1:R:272:TYR:HB3	1:R:637:LEU:HD23	1.66	0.77
1:X:272:TYR:HB3	1:X:637:LEU:HD23	1.66	0.77
1:I:272:TYR:HB3	1:I:637:LEU:HD23	1.66	0.77
1:O:272:TYR:HB3	1:O:637:LEU:HD23	1.66	0.77
1:Q:272:TYR:HB3	1:Q:637:LEU:HD23	1.66	0.77
1:l:272:TYR:HB3	1:l:637:LEU:HD23	1.66	0.77
1:n:272:TYR:HB3	1:n:637:LEU:HD23	1.66	0.77
1:o:272:TYR:HB3	1:o:637:LEU:HD23	1.66	0.77
1:c:272:TYR:HB3	1:c:637:LEU:HD23	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:272:TYR:HB3	1:d:637:LEU:HD23	1.66	0.77
1:e:272:TYR:HB3	1:e:637:LEU:HD23	1.66	0.77
1:u:272:TYR:HB3	1:u:637:LEU:HD23	1.66	0.77
1:x:272:TYR:HB3	1:x:637:LEU:HD23	1.66	0.77
1:H:272:TYR:HB3	1:H:637:LEU:HD23	1.66	0.77
1:N:272:TYR:HB3	1:N:637:LEU:HD23	1.66	0.77
1:5:272:TYR:HB3	1:5:637:LEU:HD23	1.66	0.77
1:i:272:TYR:HB3	1:i:637:LEU:HD23	1.66	0.77
1:h:272:TYR:HB3	1:h:637:LEU:HD23	1.66	0.77
1:7:272:TYR:HB3	1:7:637:LEU:HD23	1.66	0.77
1:B:272:TYR:HB3	1:B:637:LEU:HD23	1.66	0.77
1:M:272:TYR:HB3	1:M:637:LEU:HD23	1.66	0.77
1:Y:272:TYR:HB3	1:Y:637:LEU:HD23	1.66	0.77
1:p:272:TYR:HB3	1:p:637:LEU:HD23	1.66	0.77
1:V:272:TYR:HB3	1:V:637:LEU:HD23	1.66	0.77
1:a:272:TYR:HB3	1:a:637:LEU:HD23	1.66	0.77
1:1:272:TYR:HB3	1:1:637:LEU:HD23	1.66	0.77
1:4:272:TYR:HB3	1:4:637:LEU:HD23	1.66	0.77
1:K:272:TYR:HB3	1:K:637:LEU:HD23	1.66	0.77
1:S:272:TYR:HB3	1:S:637:LEU:HD23	1.66	0.77
1:3:272:TYR:HB3	1:3:637:LEU:HD23	1.66	0.77
1:r:272:TYR:HB3	1:r:637:LEU:HD23	1.66	0.77
1:v:272:TYR:HB3	1:v:637:LEU:HD23	1.66	0.77
1:A:272:TYR:HB3	1:A:637:LEU:HD23	1.66	0.76
1:y:272:TYR:HB3	1:y:637:LEU:HD23	1.66	0.76
1:j:272:TYR:HB3	1:j:637:LEU:HD23	1.66	0.76
1:F:272:TYR:HB3	1:F:637:LEU:HD23	1.66	0.76
1:P:272:TYR:HB3	1:P:637:LEU:HD23	1.66	0.76
1:Z:272:TYR:HB3	1:Z:637:LEU:HD23	1.66	0.76
1:D:272:TYR:HB3	1:D:637:LEU:HD23	1.66	0.76
1:E:272:TYR:HB3	1:E:637:LEU:HD23	1.66	0.76
1:G:272:TYR:HB3	1:G:637:LEU:HD23	1.66	0.76
1:L:272:TYR:HB3	1:L:637:LEU:HD23	1.66	0.76
1:w:272:TYR:HB3	1:w:637:LEU:HD23	1.66	0.76
1:8:272:TYR:HB3	1:8:637:LEU:HD23	1.66	0.76
1:U:272:TYR:HB3	1:U:637:LEU:HD23	1.66	0.76
1:t:272:TYR:HB3	1:t:637:LEU:HD23	1.66	0.76
1:z:272:TYR:HB3	1:z:637:LEU:HD23	1.66	0.76
1:T:272:TYR:HB3	1:T:637:LEU:HD23	1.66	0.76
1:k:272:TYR:HB3	1:k:637:LEU:HD23	1.66	0.76
1:m:272:TYR:HB3	1:m:637:LEU:HD23	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:272:TYR:HB3	1:s:637:LEU:HD23	1.66	0.76
1:J:272:TYR:HB3	1:J:637:LEU:HD23	1.66	0.76
1:2:272:TYR:HB3	1:2:637:LEU:HD23	1.66	0.75
1:U:432:ASP:HB3	1:U:454:ALA:H	1.52	0.75
1:n:432:ASP:HB3	1:n:454:ALA:H	1.52	0.75
1:s:432:ASP:HB3	1:s:454:ALA:H	1.52	0.75
1:1:432:ASP:HB3	1:1:454:ALA:H	1.52	0.75
1:6:432:ASP:HB3	1:6:454:ALA:H	1.52	0.75
1:B:313:GLU:OE2	1:B:326:ASN:ND2	2.20	0.75
1:B:432:ASP:HB3	1:B:454:ALA:H	1.52	0.75
1:R:432:ASP:HB3	1:R:454:ALA:H	1.52	0.75
1:U:313:GLU:OE2	1:U:326:ASN:ND2	2.20	0.75
1:d:432:ASP:HB3	1:d:454:ALA:H	1.52	0.75
1:s:313:GLU:OE2	1:s:326:ASN:ND2	2.20	0.75
1:1:313:GLU:OE2	1:1:326:ASN:ND2	2.20	0.75
1:4:432:ASP:HB3	1:4:454:ALA:H	1.52	0.75
1:K:432:ASP:HB3	1:K:454:ALA:H	1.52	0.75
1:P:313:GLU:OE2	1:P:326:ASN:ND2	2.20	0.75
1:T:313:GLU:OE2	1:T:326:ASN:ND2	2.20	0.75
1:W:432:ASP:HB3	1:W:454:ALA:H	1.52	0.75
1:X:313:GLU:OE2	1:X:326:ASN:ND2	2.20	0.75
1:c:432:ASP:HB3	1:c:454:ALA:H	1.52	0.75
1:j:313:GLU:OE2	1:j:326:ASN:ND2	2.20	0.75
1:m:313:GLU:OE2	1:m:326:ASN:ND2	2.20	0.75
1:o:313:GLU:OE2	1:o:326:ASN:ND2	2.20	0.75
1:q:432:ASP:HB3	1:q:454:ALA:H	1.52	0.75
1:u:313:GLU:OE2	1:u:326:ASN:ND2	2.20	0.75
1:2:313:GLU:OE2	1:2:326:ASN:ND2	2.20	0.75
1:F:313:GLU:OE2	1:F:326:ASN:ND2	2.20	0.75
1:I:313:GLU:OE2	1:I:326:ASN:ND2	2.20	0.75
1:J:313:GLU:OE2	1:J:326:ASN:ND2	2.20	0.75
1:a:432:ASP:HB3	1:a:454:ALA:H	1.52	0.75
1:3:432:ASP:HB3	1:3:454:ALA:H	1.52	0.75
1:C:313:GLU:OE2	1:C:326:ASN:ND2	2.20	0.75
1:I:432:ASP:HB3	1:I:454:ALA:H	1.52	0.75
1:N:313:GLU:OE2	1:N:326:ASN:ND2	2.20	0.75
1:Q:432:ASP:HB3	1:Q:454:ALA:H	1.52	0.75
1:e:313:GLU:OE2	1:e:326:ASN:ND2	2.20	0.75
1:e:432:ASP:HB3	1:e:454:ALA:H	1.52	0.75
1:i:313:GLU:OE2	1:i:326:ASN:ND2	2.20	0.75
1:u:432:ASP:HB3	1:u:454:ALA:H	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:313:GLU:OE2	1:y:326:ASN:ND2	2.20	0.75
1:b:313:GLU:OE2	1:b:326:ASN:ND2	2.20	0.74
1:c:313:GLU:OE2	1:c:326:ASN:ND2	2.20	0.74
1:f:313:GLU:OE2	1:f:326:ASN:ND2	2.20	0.74
1:g:313:GLU:OE2	1:g:326:ASN:ND2	2.20	0.74
1:h:432:ASP:HB3	1:h:454:ALA:H	1.52	0.74
1:w:313:GLU:OE2	1:w:326:ASN:ND2	2.20	0.74
1:x:432:ASP:HB3	1:x:454:ALA:H	1.52	0.74
1:3:313:GLU:OE2	1:3:326:ASN:ND2	2.20	0.74
1:E:313:GLU:OE2	1:E:326:ASN:ND2	2.20	0.74
1:M:432:ASP:HB3	1:M:454:ALA:H	1.52	0.74
1:V:313:GLU:OE2	1:V:326:ASN:ND2	2.20	0.74
1:l:313:GLU:OE2	1:l:326:ASN:ND2	2.20	0.74
1:5:313:GLU:OE2	1:5:326:ASN:ND2	2.20	0.74
1:7:313:GLU:OE2	1:7:326:ASN:ND2	2.20	0.74
1:8:432:ASP:HB3	1:8:454:ALA:H	1.52	0.74
1:L:432:ASP:HB3	1:L:454:ALA:H	1.52	0.74
1:O:313:GLU:OE2	1:O:326:ASN:ND2	2.20	0.74
1:X:432:ASP:HB3	1:X:454:ALA:H	1.52	0.74
1:Z:432:ASP:HB3	1:Z:454:ALA:H	1.52	0.74
1:a:313:GLU:OE2	1:a:326:ASN:ND2	2.20	0.74
1:m:432:ASP:HB3	1:m:454:ALA:H	1.52	0.74
1:o:432:ASP:HB3	1:o:454:ALA:H	1.52	0.74
1:p:313:GLU:OE2	1:p:326:ASN:ND2	2.20	0.74
1:z:432:ASP:HB3	1:z:454:ALA:H	1.52	0.74
1:G:313:GLU:OE2	1:G:326:ASN:ND2	2.20	0.74
1:H:313:GLU:OE2	1:H:326:ASN:ND2	2.20	0.74
1:M:313:GLU:OE2	1:M:326:ASN:ND2	2.20	0.74
1:T:432:ASP:HB3	1:T:454:ALA:H	1.52	0.74
1:Y:313:GLU:OE2	1:Y:326:ASN:ND2	2.20	0.74
1:q:313:GLU:OE2	1:q:326:ASN:ND2	2.20	0.74
1:t:313:GLU:OE2	1:t:326:ASN:ND2	2.20	0.74
1:t:432:ASP:HB3	1:t:454:ALA:H	1.52	0.74
1:R:313:GLU:OE2	1:R:326:ASN:ND2	2.20	0.74
1:d:313:GLU:OE2	1:d:326:ASN:ND2	2.20	0.74
1:h:313:GLU:OE2	1:h:326:ASN:ND2	2.20	0.74
1:k:432:ASP:HB3	1:k:454:ALA:H	1.52	0.74
1:z:313:GLU:OE2	1:z:326:ASN:ND2	2.20	0.74
1:F:432:ASP:HB3	1:F:454:ALA:H	1.52	0.74
1:L:313:GLU:OE2	1:L:326:ASN:ND2	2.20	0.74
1:S:313:GLU:OE2	1:S:326:ASN:ND2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:432:ASP:HB3	1:g:454:ALA:H	1.52	0.74
1:y:432:ASP:HB3	1:y:454:ALA:H	1.52	0.74
1:Y:432:ASP:HB3	1:Y:454:ALA:H	1.52	0.74
1:n:313:GLU:OE2	1:n:326:ASN:ND2	2.20	0.74
1:r:313:GLU:OE2	1:r:326:ASN:ND2	2.20	0.74
1:4:313:GLU:OE2	1:4:326:ASN:ND2	2.20	0.74
1:A:432:ASP:HB3	1:A:454:ALA:H	1.52	0.74
1:C:432:ASP:HB3	1:C:454:ALA:H	1.52	0.74
1:D:432:ASP:HB3	1:D:454:ALA:H	1.52	0.74
1:G:432:ASP:HB3	1:G:454:ALA:H	1.52	0.74
1:K:313:GLU:OE2	1:K:326:ASN:ND2	2.20	0.74
1:Z:313:GLU:OE2	1:Z:326:ASN:ND2	2.20	0.74
1:7:432:ASP:HB3	1:7:454:ALA:H	1.52	0.74
1:8:313:GLU:OE2	1:8:326:ASN:ND2	2.20	0.74
1:D:313:GLU:OE2	1:D:326:ASN:ND2	2.20	0.74
1:f:432:ASP:HB3	1:f:454:ALA:H	1.52	0.74
1:b:432:ASP:HB3	1:b:454:ALA:H	1.52	0.74
1:k:313:GLU:OE2	1:k:326:ASN:ND2	2.20	0.74
1:v:313:GLU:OE2	1:v:326:ASN:ND2	2.20	0.74
1:v:432:ASP:HB3	1:v:454:ALA:H	1.52	0.74
1:O:432:ASP:HB3	1:O:454:ALA:H	1.52	0.73
1:Q:313:GLU:OE2	1:Q:326:ASN:ND2	2.20	0.73
1:V:432:ASP:HB3	1:V:454:ALA:H	1.52	0.73
1:W:313:GLU:OE2	1:W:326:ASN:ND2	2.20	0.73
1:j:432:ASP:HB3	1:j:454:ALA:H	1.52	0.73
1:x:313:GLU:OE2	1:x:326:ASN:ND2	2.20	0.73
1:A:313:GLU:OE2	1:A:326:ASN:ND2	2.20	0.73
1:p:432:ASP:HB3	1:p:454:ALA:H	1.52	0.73
1:6:313:GLU:OE2	1:6:326:ASN:ND2	2.20	0.73
1:H:432:ASP:HB3	1:H:454:ALA:H	1.52	0.73
1:l:432:ASP:HB3	1:l:454:ALA:H	1.52	0.73
1:J:432:ASP:HB3	1:J:454:ALA:H	1.52	0.73
1:5:432:ASP:HB3	1:5:454:ALA:H	1.52	0.73
1:P:432:ASP:HB3	1:P:454:ALA:H	1.52	0.73
1:2:432:ASP:HB3	1:2:454:ALA:H	1.52	0.73
1:E:432:ASP:HB3	1:E:454:ALA:H	1.52	0.73
1:w:432:ASP:HB3	1:w:454:ALA:H	1.52	0.73
1:i:432:ASP:HB3	1:i:454:ALA:H	1.52	0.73
1:N:432:ASP:HB3	1:N:454:ALA:H	1.52	0.73
1:M:292:ASN:HD21	1:M:689:TYR:H	1.37	0.72
1:P:292:ASN:HD21	1:P:689:TYR:H	1.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:292:ASN:HD21	1:h:689:TYR:H	1.37	0.72
1:j:292:ASN:HD21	1:j:689:TYR:H	1.38	0.72
1:p:292:ASN:HD21	1:p:689:TYR:H	1.37	0.72
1:O:292:ASN:HD21	1:O:689:TYR:H	1.38	0.72
1:V:292:ASN:HD21	1:V:689:TYR:H	1.37	0.72
1:b:292:ASN:HD21	1:b:689:TYR:H	1.37	0.72
1:l:292:ASN:HD21	1:l:689:TYR:H	1.37	0.72
1:J:292:ASN:HD21	1:J:689:TYR:H	1.38	0.72
1:S:292:ASN:HD21	1:S:689:TYR:H	1.38	0.72
1:S:432:ASP:HB3	1:S:454:ALA:H	1.52	0.72
1:r:292:ASN:HD21	1:r:689:TYR:H	1.38	0.72
1:2:292:ASN:HD21	1:2:689:TYR:H	1.38	0.72
1:f:292:ASN:HD21	1:f:689:TYR:H	1.37	0.72
1:r:432:ASP:HB3	1:r:454:ALA:H	1.52	0.72
1:N:292:ASN:HD21	1:N:689:TYR:H	1.38	0.72
1:i:292:ASN:HD21	1:i:689:TYR:H	1.38	0.72
1:k:292:ASN:HD21	1:k:689:TYR:H	1.38	0.72
1:6:292:ASN:HD21	1:6:689:TYR:H	1.37	0.72
1:D:292:ASN:HD21	1:D:689:TYR:H	1.38	0.72
1:Y:292:ASN:HD21	1:Y:689:TYR:H	1.38	0.72
1:7:292:ASN:HD21	1:7:689:TYR:H	1.38	0.72
1:C:292:ASN:HD21	1:C:689:TYR:H	1.37	0.72
1:L:292:ASN:HD21	1:L:689:TYR:H	1.37	0.72
1:W:292:ASN:HD21	1:W:689:TYR:H	1.38	0.72
1:g:292:ASN:HD21	1:g:689:TYR:H	1.37	0.72
1:z:292:ASN:HD21	1:z:689:TYR:H	1.37	0.71
1:G:292:ASN:HD21	1:G:689:TYR:H	1.37	0.71
1:t:292:ASN:HD21	1:t:689:TYR:H	1.38	0.71
1:U:292:ASN:HD21	1:U:689:TYR:H	1.37	0.71
1:e:292:ASN:HD21	1:e:689:TYR:H	1.37	0.71
1:s:292:ASN:HD21	1:s:689:TYR:H	1.38	0.71
1:A:292:ASN:HD21	1:A:689:TYR:H	1.37	0.71
1:c:292:ASN:HD21	1:c:689:TYR:H	1.37	0.71
1:n:292:ASN:HD21	1:n:689:TYR:H	1.37	0.71
1:T:292:ASN:HD21	1:T:689:TYR:H	1.38	0.71
1:v:292:ASN:HD21	1:v:689:TYR:H	1.37	0.71
1:H:292:ASN:HD21	1:H:689:TYR:H	1.38	0.71
1:Q:292:ASN:HD21	1:Q:689:TYR:H	1.38	0.71
1:X:292:ASN:HD21	1:X:689:TYR:H	1.37	0.71
1:d:292:ASN:HD21	1:d:689:TYR:H	1.37	0.71
1:u:292:ASN:HD21	1:u:689:TYR:H	1.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:292:ASN:HD21	1:x:689:TYR:H	1.38	0.71
1:I:292:ASN:HD21	1:I:689:TYR:H	1.37	0.71
1:m:292:ASN:HD21	1:m:689:TYR:H	1.38	0.71
1:o:292:ASN:HD21	1:o:689:TYR:H	1.37	0.71
1:5:292:ASN:HD21	1:5:689:TYR:H	1.38	0.71
1:8:292:ASN:HD21	1:8:689:TYR:H	1.37	0.71
1:Z:292:ASN:HD21	1:Z:689:TYR:H	1.38	0.71
1:q:292:ASN:HD21	1:q:689:TYR:H	1.38	0.71
1:R:292:ASN:HD21	1:R:689:TYR:H	1.38	0.70
1:B:292:ASN:HD21	1:B:689:TYR:H	1.38	0.70
1:1:292:ASN:HD21	1:1:689:TYR:H	1.38	0.70
1:5:312:LYS:HD3	1:5:325:ASN:HB3	1.74	0.70
1:R:312:LYS:HD3	1:R:325:ASN:HB3	1.74	0.70
1:d:312:LYS:HD3	1:d:325:ASN:HB3	1.74	0.70
1:n:312:LYS:HD3	1:n:325:ASN:HB3	1.74	0.70
1:6:312:LYS:HD3	1:6:325:ASN:HB3	1.74	0.70
1:H:312:LYS:HD3	1:H:325:ASN:HB3	1.74	0.70
1:M:312:LYS:HD3	1:M:325:ASN:HB3	1.74	0.70
1:Q:312:LYS:HD3	1:Q:325:ASN:HB3	1.74	0.70
1:V:312:LYS:HD3	1:V:325:ASN:HB3	1.74	0.70
1:a:312:LYS:HD3	1:a:325:ASN:HB3	1.74	0.70
1:h:312:LYS:HD3	1:h:325:ASN:HB3	1.74	0.70
1:q:312:LYS:HD3	1:q:325:ASN:HB3	1.74	0.70
1:v:312:LYS:HD3	1:v:325:ASN:HB3	1.74	0.70
1:x:312:LYS:HD3	1:x:325:ASN:HB3	1.74	0.70
1:A:312:LYS:HD3	1:A:325:ASN:HB3	1.74	0.70
1:E:312:LYS:HD3	1:E:325:ASN:HB3	1.74	0.70
1:F:292:ASN:HD21	1:F:689:TYR:H	1.37	0.70
1:L:312:LYS:HD3	1:L:325:ASN:HB3	1.74	0.70
1:W:312:LYS:HD3	1:W:325:ASN:HB3	1.74	0.70
1:p:312:LYS:HD3	1:p:325:ASN:HB3	1.74	0.70
1:y:292:ASN:HD21	1:y:689:TYR:H	1.37	0.70
1:z:312:LYS:HD3	1:z:325:ASN:HB3	1.74	0.70
1:3:312:LYS:HD3	1:3:325:ASN:HB3	1.74	0.70
1:B:312:LYS:HD3	1:B:325:ASN:HB3	1.74	0.70
1:w:312:LYS:HD3	1:w:325:ASN:HB3	1.74	0.70
1:1:312:LYS:HD3	1:1:325:ASN:HB3	1.74	0.70
1:O:312:LYS:HD3	1:O:325:ASN:HB3	1.74	0.69
1:3:292:ASN:HD21	1:3:689:TYR:H	1.38	0.69
1:f:256:ASP:OD2	1:g:456:ARG:NH1	2.24	0.69
1:a:292:ASN:HD21	1:a:689:TYR:H	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:312:LYS:HD3	1:l:325:ASN:HB3	1.74	0.69
1:C:312:LYS:HD3	1:C:325:ASN:HB3	1.74	0.69
1:C:456:ARG:NH1	1:b:256:ASP:OD2	2.24	0.69
1:E:292:ASN:HD21	1:E:689:TYR:H	1.37	0.69
1:F:256:ASP:OD2	1:Q:456:ARG:NH1	2.24	0.69
1:K:256:ASP:OD2	1:8:456:ARG:NH1	2.24	0.69
1:W:456:ARG:NH1	1:Y:256:ASP:OD2	2.24	0.69
1:Z:456:ARG:NH1	1:4:256:ASP:OD2	2.24	0.69
1:g:312:LYS:HD3	1:g:325:ASN:HB3	1.74	0.69
1:w:292:ASN:HD21	1:w:689:TYR:H	1.38	0.69
1:7:312:LYS:HD3	1:7:325:ASN:HB3	1.74	0.69
1:Z:312:LYS:HD3	1:Z:325:ASN:HB3	1.74	0.69
1:k:312:LYS:HD3	1:k:325:ASN:HB3	1.74	0.69
1:5:456:ARG:NH1	1:6:256:ASP:OD2	2.24	0.69
1:D:312:LYS:HD3	1:D:325:ASN:HB3	1.74	0.69
1:F:312:LYS:HD3	1:F:325:ASN:HB3	1.74	0.69
1:K:292:ASN:HD21	1:K:689:TYR:H	1.38	0.69
1:N:312:LYS:HD3	1:N:325:ASN:HB3	1.74	0.69
1:Y:312:LYS:HD3	1:Y:325:ASN:HB3	1.74	0.69
1:4:292:ASN:HD21	1:4:689:TYR:H	1.38	0.69
1:8:312:LYS:HD3	1:8:325:ASN:HB3	1.74	0.69
1:i:312:LYS:HD3	1:i:325:ASN:HB3	1.74	0.69
1:s:312:LYS:HD3	1:s:325:ASN:HB3	1.74	0.69
1:x:456:ARG:NH1	1:y:256:ASP:OD2	2.24	0.69
1:y:312:LYS:HD3	1:y:325:ASN:HB3	1.74	0.69
1:6:456:ARG:NH1	1:7:256:ASP:OD2	2.24	0.69
1:U:312:LYS:HD3	1:U:325:ASN:HB3	1.74	0.69
1:c:312:LYS:HD3	1:c:325:ASN:HB3	1.74	0.69
1:f:312:LYS:HD3	1:f:325:ASN:HB3	1.74	0.69
1:j:312:LYS:HD3	1:j:325:ASN:HB3	1.74	0.69
1:P:312:LYS:HD3	1:P:325:ASN:HB3	1.74	0.68
1:e:312:LYS:HD3	1:e:325:ASN:HB3	1.74	0.68
1:b:312:LYS:HD3	1:b:325:ASN:HB3	1.74	0.68
1:o:456:ARG:NH1	1:p:256:ASP:OD2	2.24	0.68
1:G:312:LYS:HD3	1:G:325:ASN:HB3	1.74	0.68
1:V:256:ASP:OD2	1:X:456:ARG:NH1	2.24	0.68
1:J:206:GLN:OE1	1:J:206:GLN:N	2.27	0.68
1:S:206:GLN:OE1	1:S:206:GLN:N	2.27	0.68
1:S:312:LYS:HD3	1:S:325:ASN:HB3	1.74	0.68
1:X:312:LYS:HD3	1:X:325:ASN:HB3	1.74	0.68
1:Z:256:ASP:OD2	1:3:456:ARG:NH1	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:456:ARG:NH1	1:8:256:ASP:OD2	2.24	0.68
1:d:456:ARG:NH1	1:l:256:ASP:OD2	2.24	0.68
1:w:256:ASP:OD2	1:y:456:ARG:NH1	2.24	0.68
1:2:206:GLN:OE1	1:2:206:GLN:N	2.27	0.68
1:O:256:ASP:OD2	1:n:456:ARG:NH1	2.24	0.68
1:T:312:LYS:HD3	1:T:325:ASN:HB3	1.74	0.68
1:b:206:GLN:OE1	1:b:206:GLN:N	2.27	0.68
1:f:206:GLN:OE1	1:f:206:GLN:N	2.27	0.68
1:o:312:LYS:HD3	1:o:325:ASN:HB3	1.74	0.68
1:r:206:GLN:OE1	1:r:206:GLN:N	2.27	0.68
1:r:312:LYS:HD3	1:r:325:ASN:HB3	1.74	0.68
1:t:312:LYS:HD3	1:t:325:ASN:HB3	1.74	0.68
1:u:312:LYS:HD3	1:u:325:ASN:HB3	1.74	0.68
1:c:256:ASP:OD2	1:p:456:ARG:NH1	2.24	0.68
1:m:312:LYS:HD3	1:m:325:ASN:HB3	1.74	0.68
1:J:456:ARG:NH1	1:L:256:ASP:OD2	2.24	0.68
1:X:256:ASP:OD2	1:e:456:ARG:NH1	2.24	0.68
1:A:256:ASP:OD2	1:I:456:ARG:NH1	2.24	0.68
1:E:256:ASP:OD2	1:F:456:ARG:NH1	2.24	0.68
1:I:312:LYS:HD3	1:I:325:ASN:HB3	1.74	0.68
1:J:312:LYS:HD3	1:J:325:ASN:HB3	1.74	0.68
1:V:456:ARG:NH1	1:e:256:ASP:OD2	2.24	0.68
1:h:397:ARG:HG2	1:h:398:THR:H	1.59	0.68
1:z:256:ASP:OD2	1:2:456:ARG:NH1	2.24	0.68
1:D:206:GLN:OE1	1:D:206:GLN:N	2.27	0.68
1:G:397:ARG:HG2	1:G:398:THR:H	1.59	0.68
1:K:456:ARG:NH1	1:a:256:ASP:OD2	2.24	0.68
1:M:256:ASP:OD2	1:b:456:ARG:NH1	2.24	0.68
1:M:397:ARG:HG2	1:M:398:THR:H	1.59	0.68
1:k:206:GLN:OE1	1:k:206:GLN:N	2.27	0.68
1:r:397:ARG:HG2	1:r:398:THR:H	1.59	0.68
1:t:397:ARG:HG2	1:t:398:THR:H	1.59	0.68
1:t:456:ARG:NH1	1:u:256:ASP:OD2	2.24	0.68
1:u:456:ARG:NH1	1:v:256:ASP:OD2	2.24	0.68
1:2:312:LYS:HD3	1:2:325:ASN:HB3	1.74	0.68
1:K:312:LYS:HD3	1:K:325:ASN:HB3	1.74	0.67
1:S:397:ARG:HG2	1:S:398:THR:H	1.59	0.67
1:c:456:ARG:NH1	1:o:256:ASP:OD2	2.24	0.67
1:l:397:ARG:HG2	1:l:398:THR:H	1.59	0.67
1:v:397:ARG:HG2	1:v:398:THR:H	1.59	0.67
1:1:206:GLN:N	1:1:206:GLN:OE1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:ARG:HG2	1:A:398:THR:H	1.59	0.67
1:B:397:ARG:HG2	1:B:398:THR:H	1.59	0.67
1:E:397:ARG:HG2	1:E:398:THR:H	1.59	0.67
1:O:397:ARG:HG2	1:O:398:THR:H	1.59	0.67
1:Q:206:GLN:N	1:Q:206:GLN:OE1	2.27	0.67
1:n:206:GLN:OE1	1:n:206:GLN:N	2.27	0.67
1:w:397:ARG:HG2	1:w:398:THR:H	1.59	0.67
1:4:312:LYS:HD3	1:4:325:ASN:HB3	1.74	0.67
1:B:206:GLN:OE1	1:B:206:GLN:N	2.27	0.67
1:C:397:ARG:HG2	1:C:398:THR:H	1.59	0.67
1:H:397:ARG:HG2	1:H:398:THR:H	1.59	0.67
1:H:456:ARG:NH1	1:W:256:ASP:OD2	2.26	0.67
1:L:206:GLN:N	1:L:206:GLN:OE1	2.27	0.67
1:R:206:GLN:OE1	1:R:206:GLN:N	2.27	0.67
1:b:397:ARG:HG2	1:b:398:THR:H	1.59	0.67
1:d:206:GLN:N	1:d:206:GLN:OE1	2.27	0.67
1:f:456:ARG:NH1	1:h:256:ASP:OD2	2.24	0.67
1:g:397:ARG:HG2	1:g:398:THR:H	1.59	0.67
1:k:397:ARG:HG2	1:k:398:THR:H	1.59	0.67
1:z:206:GLN:OE1	1:z:206:GLN:N	2.27	0.67
1:5:397:ARG:HG2	1:5:398:THR:H	1.59	0.67
1:8:397:ARG:HG2	1:8:398:THR:H	1.59	0.67
1:A:206:GLN:N	1:A:206:GLN:OE1	2.27	0.67
1:D:397:ARG:HG2	1:D:398:THR:H	1.59	0.67
1:M:206:GLN:OE1	1:M:206:GLN:N	2.27	0.67
1:Q:397:ARG:HG2	1:Q:398:THR:H	1.59	0.67
1:Z:397:ARG:HG2	1:Z:398:THR:H	1.59	0.67
1:f:397:ARG:HG2	1:f:398:THR:H	1.59	0.67
1:q:206:GLN:OE1	1:q:206:GLN:N	2.27	0.67
1:s:397:ARG:HG2	1:s:398:THR:H	1.59	0.67
1:u:397:ARG:HG2	1:u:398:THR:H	1.59	0.67
1:x:206:GLN:OE1	1:x:206:GLN:N	2.27	0.67
1:x:397:ARG:HG2	1:x:398:THR:H	1.59	0.67
1:1:397:ARG:HG2	1:1:398:THR:H	1.59	0.67
1:U:397:ARG:HG2	1:U:398:THR:H	1.59	0.67
1:X:206:GLN:OE1	1:X:206:GLN:N	2.27	0.67
1:e:397:ARG:HG2	1:e:398:THR:H	1.59	0.67
1:h:206:GLN:OE1	1:h:206:GLN:N	2.27	0.67
1:o:206:GLN:N	1:o:206:GLN:OE1	2.27	0.67
1:v:206:GLN:OE1	1:v:206:GLN:N	2.27	0.67
1:I:397:ARG:HG2	1:I:398:THR:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:397:ARG:HG2	1:W:398:THR:H	1.59	0.67
1:a:397:ARG:HG2	1:a:398:THR:H	1.59	0.67
1:c:397:ARG:HG2	1:c:398:THR:H	1.59	0.67
1:m:397:ARG:HG2	1:m:398:THR:H	1.59	0.67
1:6:397:ARG:HG2	1:6:398:THR:H	1.59	0.67
1:D:489:PHE:O	1:D:494:ARG:NH2	2.28	0.67
1:2:397:ARG:HG2	1:2:398:THR:H	1.59	0.67
1:N:489:PHE:O	1:N:494:ARG:NH2	2.28	0.67
1:Q:489:PHE:O	1:Q:494:ARG:NH2	2.28	0.67
1:V:489:PHE:O	1:V:494:ARG:NH2	2.28	0.67
1:Z:489:PHE:O	1:Z:494:ARG:NH2	2.28	0.67
1:j:456:ARG:NH1	1:k:256:ASP:OD2	2.24	0.67
1:n:397:ARG:HG2	1:n:398:THR:H	1.59	0.67
1:p:489:PHE:O	1:p:494:ARG:NH2	2.28	0.67
1:q:256:ASP:OD2	1:s:456:ARG:NH1	2.24	0.67
1:3:397:ARG:HG2	1:3:398:THR:H	1.59	0.67
1:J:397:ARG:HG2	1:J:398:THR:H	1.59	0.67
1:L:489:PHE:O	1:L:494:ARG:NH2	2.28	0.67
1:R:256:ASP:OD2	1:U:456:ARG:NH1	2.24	0.67
1:d:397:ARG:HG2	1:d:398:THR:H	1.59	0.67
1:i:489:PHE:O	1:i:494:ARG:NH2	2.28	0.67
1:k:489:PHE:O	1:k:494:ARG:NH2	2.28	0.67
1:w:489:PHE:O	1:w:494:ARG:NH2	2.28	0.67
1:x:489:PHE:O	1:x:494:ARG:NH2	2.28	0.67
1:z:489:PHE:O	1:z:494:ARG:NH2	2.28	0.67
1:8:489:PHE:O	1:8:494:ARG:NH2	2.28	0.67
1:E:489:PHE:O	1:E:494:ARG:NH2	2.28	0.67
1:H:489:PHE:O	1:H:494:ARG:NH2	2.28	0.67
1:P:489:PHE:O	1:P:494:ARG:NH2	2.28	0.67
1:V:206:GLN:OE1	1:V:206:GLN:N	2.27	0.67
1:m:456:ARG:NH1	1:n:256:ASP:OD2	2.24	0.67
1:5:489:PHE:O	1:5:494:ARG:NH2	2.28	0.67
1:D:256:ASP:OD2	1:P:456:ARG:NH1	2.24	0.66
1:T:397:ARG:HG2	1:T:398:THR:H	1.60	0.66
1:T:456:ARG:NH1	1:d:256:ASP:OD2	2.24	0.66
1:T:489:PHE:O	1:T:494:ARG:NH2	2.28	0.66
1:j:489:PHE:O	1:j:494:ARG:NH2	2.28	0.66
1:m:489:PHE:O	1:m:494:ARG:NH2	2.28	0.66
1:p:206:GLN:OE1	1:p:206:GLN:N	2.27	0.66
1:V:397:ARG:HG2	1:V:398:THR:H	1.59	0.66
1:b:489:PHE:O	1:b:494:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:206:GLN:N	1:l:206:GLN:OE1	2.27	0.66
1:t:206:GLN:N	1:t:206:GLN:OE1	2.27	0.66
1:F:397:ARG:HG2	1:F:398:THR:H	1.59	0.66
1:H:256:ASP:OD2	1:Y:456:ARG:NH1	2.24	0.66
1:P:206:GLN:OE1	1:P:206:GLN:N	2.27	0.66
1:Y:489:PHE:O	1:Y:494:ARG:NH2	2.28	0.66
1:f:489:PHE:O	1:f:494:ARG:NH2	2.28	0.66
1:j:206:GLN:OE1	1:j:206:GLN:N	2.27	0.66
1:y:489:PHE:O	1:y:494:ARG:NH2	2.28	0.66
1:3:256:ASP:OD2	1:4:456:ARG:NH1	2.24	0.66
1:4:206:GLN:OE1	1:4:206:GLN:N	2.27	0.66
1:F:489:PHE:O	1:F:494:ARG:NH2	2.28	0.66
1:G:206:GLN:OE1	1:G:206:GLN:N	2.27	0.66
1:I:489:PHE:O	1:I:494:ARG:NH2	2.28	0.66
1:J:489:PHE:O	1:J:494:ARG:NH2	2.28	0.66
1:N:397:ARG:HG2	1:N:398:THR:H	1.59	0.66
1:O:206:GLN:OE1	1:O:206:GLN:N	2.27	0.66
1:X:489:PHE:O	1:X:494:ARG:NH2	2.28	0.66
1:c:489:PHE:O	1:c:494:ARG:NH2	2.28	0.66
1:e:489:PHE:O	1:e:494:ARG:NH2	2.28	0.66
1:l:489:PHE:O	1:l:494:ARG:NH2	2.28	0.66
1:p:397:ARG:HG2	1:p:398:THR:H	1.59	0.66
1:y:397:ARG:HG2	1:y:398:THR:H	1.59	0.66
1:z:397:ARG:HG2	1:z:398:THR:H	1.59	0.66
1:2:489:PHE:O	1:2:494:ARG:NH2	2.28	0.66
1:3:489:PHE:O	1:3:494:ARG:NH2	2.28	0.66
1:4:489:PHE:O	1:4:494:ARG:NH2	2.28	0.66
1:E:456:ARG:NH1	1:Q:256:ASP:OD2	2.24	0.66
1:K:489:PHE:O	1:K:494:ARG:NH2	2.28	0.66
1:O:489:PHE:O	1:O:494:ARG:NH2	2.28	0.66
1:a:489:PHE:O	1:a:494:ARG:NH2	2.28	0.66
1:o:489:PHE:O	1:o:494:ARG:NH2	2.28	0.66
1:u:489:PHE:O	1:u:494:ARG:NH2	2.28	0.66
1:7:489:PHE:O	1:7:494:ARG:NH2	2.28	0.66
1:I:206:GLN:N	1:I:206:GLN:OE1	2.27	0.66
1:K:206:GLN:OE1	1:K:206:GLN:N	2.27	0.66
1:L:397:ARG:HG2	1:L:398:THR:H	1.59	0.66
1:S:489:PHE:O	1:S:494:ARG:NH2	2.28	0.66
1:X:397:ARG:HG2	1:X:398:THR:H	1.59	0.66
1:i:397:ARG:HG2	1:i:398:THR:H	1.59	0.66
1:r:489:PHE:O	1:r:494:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:397:ARG:HG2	1:K:398:THR:H	1.59	0.66
1:M:489:PHE:O	1:M:494:ARG:NH2	2.28	0.66
1:P:397:ARG:HG2	1:P:398:THR:H	1.59	0.66
1:R:397:ARG:HG2	1:R:398:THR:H	1.59	0.66
1:S:456:ARG:NH1	1:U:256:ASP:OD2	2.24	0.66
1:m:206:GLN:OE1	1:m:206:GLN:N	2.27	0.66
1:o:397:ARG:HG2	1:o:398:THR:H	1.59	0.66
1:q:397:ARG:HG2	1:q:398:THR:H	1.59	0.66
1:u:206:GLN:OE1	1:u:206:GLN:N	2.27	0.66
1:4:397:ARG:HG2	1:4:398:THR:H	1.59	0.66
1:7:397:ARG:HG2	1:7:398:THR:H	1.59	0.66
1:N:206:GLN:N	1:N:206:GLN:OE1	2.27	0.66
1:T:206:GLN:N	1:T:206:GLN:OE1	2.27	0.66
1:W:489:PHE:O	1:W:494:ARG:NH2	2.28	0.66
1:h:489:PHE:O	1:h:494:ARG:NH2	2.28	0.66
1:5:256:ASP:OD2	1:7:456:ARG:NH1	2.25	0.66
1:6:489:PHE:O	1:6:494:ARG:NH2	2.28	0.66
1:i:206:GLN:N	1:i:206:GLN:OE1	2.27	0.66
1:j:397:ARG:HG2	1:j:398:THR:H	1.59	0.66
1:w:456:ARG:NH1	1:x:256:ASP:OD2	2.24	0.66
1:C:206:GLN:OE1	1:C:206:GLN:N	2.27	0.66
1:R:489:PHE:O	1:R:494:ARG:NH2	2.28	0.66
1:c:206:GLN:OE1	1:c:206:GLN:N	2.27	0.66
1:e:206:GLN:OE1	1:e:206:GLN:N	2.27	0.66
1:g:206:GLN:OE1	1:g:206:GLN:N	2.27	0.66
1:r:456:ARG:NH1	1:s:256:ASP:OD2	2.24	0.66
1:v:489:PHE:O	1:v:494:ARG:NH2	2.28	0.66
1:5:206:GLN:OE1	1:5:206:GLN:N	2.27	0.66
1:A:489:PHE:O	1:A:494:ARG:NH2	2.28	0.65
1:C:489:PHE:O	1:C:494:ARG:NH2	2.28	0.65
1:H:206:GLN:OE1	1:H:206:GLN:N	2.27	0.65
1:H:722:ARG:HE	1:W:613:GLU:HG2	1.60	0.65
1:Y:206:GLN:N	1:Y:206:GLN:OE1	2.27	0.65
1:Y:397:ARG:HG2	1:Y:398:THR:H	1.59	0.65
1:d:489:PHE:O	1:d:494:ARG:NH2	2.28	0.65
1:n:489:PHE:O	1:n:494:ARG:NH2	2.28	0.65
1:q:489:PHE:O	1:q:494:ARG:NH2	2.28	0.65
1:A:456:ARG:NH1	1:G:256:ASP:OD2	2.24	0.65
1:F:206:GLN:N	1:F:206:GLN:OE1	2.27	0.65
1:t:256:ASP:OD2	1:v:456:ARG:NH1	2.24	0.65
1:U:489:PHE:O	1:U:494:ARG:NH2	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:489:PHE:O	1:g:494:ARG:NH2	2.28	0.65
1:7:206:GLN:OE1	1:7:206:GLN:N	2.27	0.65
1:E:206:GLN:OE1	1:E:206:GLN:N	2.27	0.65
1:G:489:PHE:O	1:G:494:ARG:NH2	2.28	0.65
1:H:613:GLU:HG2	1:Y:722:ARG:HE	1.60	0.65
1:s:489:PHE:O	1:s:494:ARG:NH2	2.28	0.65
1:t:489:PHE:O	1:t:494:ARG:NH2	2.28	0.65
1:y:206:GLN:OE1	1:y:206:GLN:N	2.27	0.65
1:O:274:ASP:OD1	1:O:345:VAL:HG13	1.97	0.65
1:l:274:ASP:OD1	1:l:345:VAL:HG13	1.97	0.65
1:o:274:ASP:OD1	1:o:345:VAL:HG13	1.97	0.65
1:B:489:PHE:O	1:B:494:ARG:NH2	2.28	0.65
1:M:274:ASP:OD1	1:M:345:VAL:HG13	1.97	0.65
1:U:274:ASP:OD1	1:U:345:VAL:HG13	1.97	0.65
1:X:274:ASP:OD1	1:X:345:VAL:HG13	1.97	0.65
1:a:274:ASP:OD1	1:a:345:VAL:HG13	1.97	0.65
1:h:274:ASP:OD1	1:h:345:VAL:HG13	1.97	0.65
1:s:274:ASP:OD1	1:s:345:VAL:HG13	1.97	0.65
1:w:206:GLN:N	1:w:206:GLN:OE1	2.27	0.65
1:F:274:ASP:OD1	1:F:345:VAL:HG13	1.97	0.65
1:K:274:ASP:OD1	1:K:345:VAL:HG13	1.97	0.65
1:1:489:PHE:O	1:1:494:ARG:NH2	2.28	0.65
1:3:274:ASP:OD1	1:3:345:VAL:HG13	1.97	0.65
1:4:274:ASP:OD1	1:4:345:VAL:HG13	1.97	0.65
1:R:274:ASP:OD1	1:R:345:VAL:HG13	1.97	0.65
1:q:274:ASP:OD1	1:q:345:VAL:HG13	1.97	0.65
1:t:274:ASP:OD1	1:t:345:VAL:HG13	1.97	0.65
1:y:274:ASP:OD1	1:y:345:VAL:HG13	1.97	0.65
1:C:274:ASP:OD1	1:C:345:VAL:HG13	1.97	0.65
1:G:274:ASP:OD1	1:G:345:VAL:HG13	1.97	0.65
1:V:274:ASP:OD1	1:V:345:VAL:HG13	1.97	0.65
1:W:274:ASP:OD1	1:W:345:VAL:HG13	1.97	0.65
1:g:274:ASP:OD1	1:g:345:VAL:HG13	1.97	0.65
1:S:274:ASP:OD1	1:S:345:VAL:HG13	1.97	0.64
1:U:206:GLN:OE1	1:U:206:GLN:N	2.27	0.64
1:p:274:ASP:OD1	1:p:345:VAL:HG13	1.97	0.64
1:x:274:ASP:OD1	1:x:345:VAL:HG13	1.97	0.64
1:6:274:ASP:OD1	1:6:345:VAL:HG13	1.97	0.64
1:A:274:ASP:OD1	1:A:345:VAL:HG13	1.97	0.64
1:Q:274:ASP:OD1	1:Q:345:VAL:HG13	1.97	0.64
1:T:256:ASP:OD2	1:l:456:ARG:NH1	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:274:ASP:OD1	1:d:345:VAL:HG13	1.97	0.64
1:n:274:ASP:OD1	1:n:345:VAL:HG13	1.97	0.64
1:r:274:ASP:OD1	1:r:345:VAL:HG13	1.97	0.64
1:8:206:GLN:OE1	1:8:206:GLN:N	2.27	0.64
1:D:274:ASP:OD1	1:D:345:VAL:HG13	1.97	0.64
1:c:274:ASP:OD1	1:c:345:VAL:HG13	1.97	0.64
1:e:274:ASP:OD1	1:e:345:VAL:HG13	1.97	0.64
1:B:274:ASP:OD1	1:B:345:VAL:HG13	1.97	0.64
1:J:274:ASP:OD1	1:J:345:VAL:HG13	1.97	0.64
1:T:274:ASP:OD1	1:T:345:VAL:HG13	1.97	0.64
1:b:274:ASP:OD1	1:b:345:VAL:HG13	1.97	0.64
1:f:274:ASP:OD1	1:f:345:VAL:HG13	1.97	0.64
1:r:722:ARG:HE	1:s:613:GLU:HG2	1.63	0.64
1:s:206:GLN:OE1	1:s:206:GLN:N	2.27	0.64
1:v:274:ASP:OD1	1:v:345:VAL:HG13	1.97	0.64
1:1:274:ASP:OD1	1:1:345:VAL:HG13	1.97	0.64
1:P:274:ASP:OD1	1:P:345:VAL:HG13	1.97	0.64
1:S:722:ARG:HE	1:U:613:GLU:HG2	1.63	0.64
1:W:206:GLN:OE1	1:W:206:GLN:N	2.27	0.64
1:Z:206:GLN:OE1	1:Z:206:GLN:N	2.27	0.64
1:Z:274:ASP:OD1	1:Z:345:VAL:HG13	1.97	0.64
1:k:274:ASP:OD1	1:k:345:VAL:HG13	1.97	0.64
1:6:206:GLN:OE1	1:6:206:GLN:N	2.27	0.64
1:6:722:ARG:HE	1:7:613:GLU:HG2	1.63	0.64
1:O:456:ARG:NH1	1:m:256:ASP:OD2	2.24	0.64
1:V:422:ASN:OD1	1:V:423:LEU:N	2.31	0.64
1:j:274:ASP:OD1	1:j:345:VAL:HG13	1.97	0.64
1:m:274:ASP:OD1	1:m:345:VAL:HG13	1.97	0.64
1:p:422:ASN:OD1	1:p:423:LEU:N	2.31	0.64
1:q:456:ARG:NH1	1:r:256:ASP:OD2	2.24	0.64
1:2:274:ASP:OD1	1:2:345:VAL:HG13	1.97	0.64
1:8:274:ASP:OD1	1:8:345:VAL:HG13	1.97	0.64
1:B:256:ASP:OD2	1:L:456:ARG:NH1	2.24	0.64
1:B:722:ARG:HE	1:J:613:GLU:HG2	1.63	0.64
1:D:422:ASN:OD1	1:D:423:LEU:N	2.31	0.64
1:N:274:ASP:OD1	1:N:345:VAL:HG13	1.97	0.64
1:N:456:ARG:NH1	1:P:256:ASP:OD2	2.23	0.64
1:k:422:ASN:OD1	1:k:423:LEU:N	2.31	0.64
1:z:422:ASN:OD1	1:z:423:LEU:N	2.31	0.64
1:L:422:ASN:OD1	1:L:423:LEU:N	2.31	0.64
1:M:422:ASN:OD1	1:M:423:LEU:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:422:ASN:OD1	1:P:423:LEU:N	2.31	0.64
1:T:422:ASN:OD1	1:T:423:LEU:N	2.31	0.64
1:Z:422:ASN:OD1	1:Z:423:LEU:N	2.31	0.64
1:h:422:ASN:OD1	1:h:423:LEU:N	2.31	0.64
1:i:274:ASP:OD1	1:i:345:VAL:HG13	1.97	0.64
1:x:422:ASN:OD1	1:x:423:LEU:N	2.31	0.64
1:C:422:ASN:OD1	1:C:423:LEU:N	2.31	0.64
1:E:422:ASN:OD1	1:E:423:LEU:N	2.31	0.64
1:G:456:ARG:NH1	1:I:256:ASP:OD2	2.24	0.64
1:Q:422:ASN:OD1	1:Q:423:LEU:N	2.31	0.64
1:b:422:ASN:OD1	1:b:423:LEU:N	2.31	0.64
1:f:422:ASN:OD1	1:f:423:LEU:N	2.31	0.64
1:i:256:ASP:OD2	1:k:456:ARG:NH1	2.24	0.64
1:i:456:ARG:NH1	1:j:256:ASP:OD2	2.23	0.64
1:j:422:ASN:OD1	1:j:423:LEU:N	2.31	0.64
1:t:613:GLU:HG2	1:v:722:ARG:HE	1.63	0.64
1:w:274:ASP:OD1	1:w:345:VAL:HG13	1.97	0.64
1:8:422:ASN:OD1	1:8:423:LEU:N	2.31	0.64
1:D:456:ARG:NH1	1:N:256:ASP:OD2	2.24	0.64
1:H:274:ASP:OD1	1:H:345:VAL:HG13	1.97	0.64
1:K:613:GLU:HG2	1:8:722:ARG:HE	1.63	0.64
1:R:456:ARG:NH1	1:S:256:ASP:OD2	2.24	0.64
1:S:422:ASN:OD1	1:S:423:LEU:N	2.31	0.64
1:X:422:ASN:OD1	1:X:423:LEU:N	2.31	0.64
1:Y:274:ASP:OD1	1:Y:345:VAL:HG13	1.97	0.64
1:Z:722:ARG:HE	1:4:613:GLU:HG2	1.63	0.64
1:g:422:ASN:OD1	1:g:423:LEU:N	2.31	0.64
1:m:422:ASN:OD1	1:m:423:LEU:N	2.31	0.64
1:o:422:ASN:OD1	1:o:423:LEU:N	2.31	0.64
1:r:422:ASN:OD1	1:r:423:LEU:N	2.31	0.64
1:w:422:ASN:OD1	1:w:423:LEU:N	2.31	0.64
1:1:722:ARG:HE	1:2:613:GLU:HG2	1.63	0.64
1:3:206:GLN:OE1	1:3:206:GLN:N	2.27	0.64
1:5:274:ASP:OD1	1:5:345:VAL:HG13	1.97	0.64
1:A:722:ARG:HE	1:G:613:GLU:HG2	1.63	0.63
1:E:274:ASP:OD1	1:E:345:VAL:HG13	1.97	0.63
1:a:206:GLN:N	1:a:206:GLN:OE1	2.27	0.63
1:z:456:ARG:NH1	1:1:256:ASP:OD2	2.24	0.63
1:6:422:ASN:OD1	1:6:423:LEU:N	2.31	0.63
1:A:422:ASN:OD1	1:A:423:LEU:N	2.31	0.63
1:B:422:ASN:OD1	1:B:423:LEU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:722:ARG:HE	1:L:613:GLU:HG2	1.63	0.63
1:W:422:ASN:OD1	1:W:423:LEU:N	2.31	0.63
1:X:613:GLU:HG2	1:e:722:ARG:HE	1.63	0.63
1:e:422:ASN:OD1	1:e:423:LEU:N	2.31	0.63
1:v:422:ASN:OD1	1:v:423:LEU:N	2.31	0.63
1:x:722:ARG:HE	1:y:613:GLU:HG2	1.63	0.63
1:7:274:ASP:OD1	1:7:345:VAL:HG13	1.97	0.63
1:C:613:GLU:HG2	1:M:722:ARG:HE	1.63	0.63
1:I:422:ASN:OD1	1:I:423:LEU:N	2.31	0.63
1:c:422:ASN:OD1	1:c:423:LEU:N	2.31	0.63
1:c:722:ARG:HE	1:o:613:GLU:HG2	1.63	0.63
1:u:422:ASN:OD1	1:u:423:LEU:N	2.31	0.63
1:1:422:ASN:OD1	1:1:423:LEU:N	2.31	0.63
1:5:422:ASN:OD1	1:5:423:LEU:N	2.31	0.63
1:F:613:GLU:HG2	1:Q:722:ARG:HE	1.63	0.63
1:H:422:ASN:OD1	1:H:423:LEU:N	2.31	0.63
1:O:422:ASN:OD1	1:O:423:LEU:N	2.31	0.63
1:g:613:GLU:HG2	1:h:722:ARG:HE	1.63	0.63
1:z:613:GLU:HG2	1:2:722:ARG:HE	1.63	0.63
1:q:722:ARG:HE	1:r:613:GLU:HG2	1.63	0.63
1:s:422:ASN:OD1	1:s:423:LEU:N	2.31	0.63
1:t:422:ASN:OD1	1:t:423:LEU:N	2.31	0.63
1:G:422:ASN:OD1	1:G:423:LEU:N	2.31	0.63
1:L:274:ASP:OD1	1:L:345:VAL:HG13	1.97	0.63
1:U:422:ASN:OD1	1:U:423:LEU:N	2.31	0.63
1:l:422:ASN:OD1	1:l:423:LEU:N	2.31	0.63
1:u:274:ASP:OD1	1:u:345:VAL:HG13	1.97	0.63
1:E:722:ARG:HE	1:Q:613:GLU:HG2	1.63	0.63
1:I:274:ASP:OD1	1:I:345:VAL:HG13	1.97	0.63
1:J:422:ASN:OD1	1:J:423:LEU:N	2.31	0.63
1:M:613:GLU:HG2	1:b:722:ARG:HE	1.63	0.63
1:N:722:ARG:HE	1:P:613:GLU:HG2	1.63	0.63
1:O:613:GLU:HG2	1:n:722:ARG:HE	1.63	0.63
1:V:613:GLU:HG2	1:X:722:ARG:HE	1.63	0.63
1:W:722:ARG:HE	1:Y:613:GLU:HG2	1.64	0.63
1:w:722:ARG:HE	1:x:613:GLU:HG2	1.63	0.63
1:z:274:ASP:OD1	1:z:345:VAL:HG13	1.97	0.63
1:F:422:ASN:OD1	1:F:423:LEU:N	2.31	0.63
1:R:722:ARG:HE	1:S:613:GLU:HG2	1.63	0.63
1:d:722:ARG:HE	1:l:613:GLU:HG2	1.63	0.63
1:o:722:ARG:HE	1:p:613:GLU:HG2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:422:ASN:OD1	1:y:423:LEU:N	2.31	0.63
1:5:722:ARG:HE	1:6:613:GLU:HG2	1.63	0.63
1:E:613:GLU:HG2	1:F:722:ARG:HE	1.63	0.63
1:K:422:ASN:OD1	1:K:423:LEU:N	2.31	0.63
1:f:722:ARG:HE	1:h:613:GLU:HG2	1.63	0.63
1:2:422:ASN:OD1	1:2:423:LEU:N	2.31	0.63
1:3:422:ASN:OD1	1:3:423:LEU:N	2.31	0.63
1:A:613:GLU:HG2	1:I:722:ARG:HE	1.63	0.62
1:B:613:GLU:HG2	1:L:722:ARG:HE	1.63	0.62
1:D:722:ARG:HE	1:N:613:GLU:HG2	1.63	0.62
1:R:613:GLU:HG2	1:U:722:ARG:HE	1.63	0.62
1:b:274:ASP:O	1:b:352:CYS:HA	2.00	0.62
1:n:422:ASN:OD1	1:n:423:LEU:N	2.31	0.62
1:q:613:GLU:HG2	1:s:722:ARG:HE	1.63	0.62
1:4:422:ASN:OD1	1:4:423:LEU:N	2.31	0.62
1:K:722:ARG:HE	1:a:613:GLU:HG2	1.63	0.62
1:T:722:ARG:HE	1:d:613:GLU:HG2	1.63	0.62
1:Y:422:ASN:OD1	1:Y:423:LEU:N	2.31	0.62
1:Z:613:GLU:HG2	1:3:722:ARG:HE	1.63	0.62
1:a:422:ASN:OD1	1:a:423:LEU:N	2.31	0.62
1:j:722:ARG:HE	1:k:613:GLU:HG2	1.63	0.62
1:z:722:ARG:HE	1:l:613:GLU:HG2	1.63	0.62
1:D:613:GLU:HG2	1:P:722:ARG:HE	1.63	0.62
1:M:274:ASP:O	1:M:352:CYS:HA	2.00	0.62
1:N:422:ASN:OD1	1:N:423:LEU:N	2.31	0.62
1:Z:274:ASP:O	1:Z:352:CYS:HA	2.00	0.62
1:d:422:ASN:OD1	1:d:423:LEU:N	2.31	0.62
1:f:613:GLU:HG2	1:g:722:ARG:HE	1.63	0.62
1:i:613:GLU:HG2	1:k:722:ARG:HE	1.63	0.62
1:m:722:ARG:HE	1:n:613:GLU:HG2	1.63	0.62
1:u:722:ARG:HE	1:v:613:GLU:HG2	1.63	0.62
1:w:613:GLU:HG2	1:y:722:ARG:HE	1.63	0.62
1:7:422:ASN:OD1	1:7:423:LEU:N	2.31	0.62
1:F:274:ASP:O	1:F:352:CYS:HA	2.00	0.62
1:O:722:ARG:HE	1:m:613:GLU:HG2	1.63	0.62
1:a:722:ARG:HE	1:8:613:GLU:HG2	1.63	0.62
1:f:274:ASP:O	1:f:352:CYS:HA	2.00	0.62
1:i:422:ASN:OD1	1:i:423:LEU:N	2.31	0.62
1:i:722:ARG:HE	1:j:613:GLU:HG2	1.64	0.62
1:y:274:ASP:O	1:y:352:CYS:HA	2.00	0.62
1:3:613:GLU:HG2	1:4:722:ARG:HE	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:274:ASP:O	1:8:352:CYS:HA	2.00	0.62
1:B:274:ASP:O	1:B:352:CYS:HA	2.00	0.62
1:C:722:ARG:HE	1:b:613:GLU:HG2	1.63	0.62
1:N:274:ASP:O	1:N:352:CYS:HA	2.00	0.62
1:V:722:ARG:HE	1:e:613:GLU:HG2	1.63	0.62
1:h:274:ASP:O	1:h:352:CYS:HA	2.00	0.62
1:i:274:ASP:O	1:i:352:CYS:HA	2.00	0.62
1:l:274:ASP:O	1:l:352:CYS:HA	2.00	0.62
1:J:274:ASP:O	1:J:352:CYS:HA	2.00	0.62
1:O:274:ASP:O	1:O:352:CYS:HA	2.00	0.62
1:R:422:ASN:OD1	1:R:423:LEU:N	2.31	0.62
1:T:274:ASP:O	1:T:352:CYS:HA	2.00	0.62
1:T:613:GLU:HG2	1:l:722:ARG:HE	1.63	0.62
1:m:274:ASP:O	1:m:352:CYS:HA	2.00	0.62
1:q:422:ASN:OD1	1:q:423:LEU:N	2.31	0.62
1:5:613:GLU:HG2	1:7:722:ARG:HE	1.63	0.62
1:E:274:ASP:O	1:E:352:CYS:HA	2.00	0.62
1:Q:274:ASP:O	1:Q:352:CYS:HA	2.00	0.62
1:c:613:GLU:HG2	1:p:722:ARG:HE	1.63	0.62
1:l:274:ASP:O	1:l:352:CYS:HA	2.00	0.62
1:2:274:ASP:O	1:2:352:CYS:HA	2.00	0.62
1:S:274:ASP:O	1:S:352:CYS:HA	2.00	0.62
1:r:274:ASP:O	1:r:352:CYS:HA	2.00	0.62
1:w:274:ASP:O	1:w:352:CYS:HA	2.00	0.62
1:x:274:ASP:O	1:x:352:CYS:HA	2.00	0.62
1:6:274:ASP:O	1:6:352:CYS:HA	2.00	0.62
1:C:256:ASP:OD2	1:M:456:ARG:NH1	2.24	0.62
1:W:274:ASP:O	1:W:352:CYS:HA	2.00	0.62
1:X:274:ASP:O	1:X:352:CYS:HA	2.00	0.62
1:u:274:ASP:O	1:u:352:CYS:HA	2.00	0.62
1:I:274:ASP:O	1:I:352:CYS:HA	2.00	0.62
1:g:256:ASP:OD2	1:h:456:ARG:NH1	2.24	0.62
1:o:274:ASP:O	1:o:352:CYS:HA	2.00	0.62
1:1:456:ARG:NH1	1:2:256:ASP:OD2	2.24	0.62
1:3:274:ASP:O	1:3:352:CYS:HA	2.00	0.62
1:5:274:ASP:O	1:5:352:CYS:HA	2.00	0.62
1:Y:274:ASP:O	1:Y:352:CYS:HA	2.00	0.61
1:e:274:ASP:O	1:e:352:CYS:HA	2.00	0.61
1:n:274:ASP:O	1:n:352:CYS:HA	2.00	0.61
1:B:456:ARG:NH1	1:J:256:ASP:OD2	2.24	0.61
1:H:274:ASP:O	1:H:352:CYS:HA	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:274:ASP:O	1:a:352:CYS:HA	2.00	0.61
1:d:274:ASP:O	1:d:352:CYS:HA	2.00	0.61
1:v:274:ASP:O	1:v:352:CYS:HA	2.00	0.61
1:7:274:ASP:O	1:7:352:CYS:HA	1.99	0.61
1:A:274:ASP:O	1:A:352:CYS:HA	2.00	0.61
1:D:274:ASP:O	1:D:352:CYS:HA	2.00	0.61
1:4:274:ASP:O	1:4:352:CYS:HA	2.00	0.61
1:C:274:ASP:O	1:C:352:CYS:HA	2.00	0.61
1:G:274:ASP:O	1:G:352:CYS:HA	2.00	0.61
1:G:722:ARG:HE	1:I:613:GLU:HG2	1.63	0.61
1:K:274:ASP:O	1:K:352:CYS:HA	2.00	0.61
1:L:274:ASP:O	1:L:352:CYS:HA	2.00	0.61
1:P:274:ASP:O	1:P:352:CYS:HA	2.00	0.61
1:c:274:ASP:O	1:c:352:CYS:HA	2.00	0.61
1:j:274:ASP:O	1:j:352:CYS:HA	2.00	0.61
1:k:274:ASP:O	1:k:352:CYS:HA	2.00	0.61
1:g:274:ASP:O	1:g:352:CYS:HA	2.00	0.61
1:t:722:ARG:HE	1:u:613:GLU:HG2	1.63	0.61
1:z:274:ASP:O	1:z:352:CYS:HA	2.00	0.61
1:A:436:TYR:CE2	1:G:530:ASN:HB2	2.36	0.61
1:R:274:ASP:O	1:R:352:CYS:HA	2.00	0.61
1:V:274:ASP:O	1:V:352:CYS:HA	2.00	0.61
1:p:274:ASP:O	1:p:352:CYS:HA	2.00	0.61
1:t:274:ASP:O	1:t:352:CYS:HA	2.00	0.61
1:t:436:TYR:CE2	1:u:530:ASN:HB2	2.36	0.61
1:w:436:TYR:CE2	1:x:530:ASN:HB2	2.36	0.61
1:A:530:ASN:HB2	1:I:436:TYR:CE2	2.36	0.61
1:E:436:TYR:CE2	1:Q:530:ASN:HB2	2.36	0.61
1:G:436:TYR:CE2	1:I:530:ASN:HB2	2.36	0.61
1:H:530:ASN:HB2	1:Y:436:TYR:CE2	2.36	0.61
1:V:530:ASN:HB2	1:X:436:TYR:CE2	2.36	0.61
1:W:436:TYR:CE2	1:Y:530:ASN:HB2	2.36	0.61
1:5:436:TYR:CE2	1:6:530:ASN:HB2	2.36	0.61
1:C:530:ASN:HB2	1:M:436:TYR:CE2	2.36	0.61
1:R:436:TYR:CE2	1:S:530:ASN:HB2	2.36	0.61
1:o:436:TYR:CE2	1:p:530:ASN:HB2	2.36	0.61
1:q:274:ASP:O	1:q:352:CYS:HA	2.00	0.61
1:q:436:TYR:CE2	1:r:530:ASN:HB2	2.36	0.61
1:t:530:ASN:HB2	1:v:436:TYR:CE2	2.36	0.61
1:u:436:TYR:CE2	1:v:530:ASN:HB2	2.36	0.61
1:5:530:ASN:HB2	1:7:436:TYR:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:436:TYR:CE2	1:L:530:ASN:HB2	2.36	0.61
1:O:530:ASN:HB2	1:n:436:TYR:CE2	2.36	0.61
1:U:274:ASP:O	1:U:352:CYS:HA	2.00	0.61
1:d:436:TYR:CE2	1:l:530:ASN:HB2	2.36	0.61
1:g:530:ASN:HB2	1:h:436:TYR:CE2	2.36	0.61
1:z:530:ASN:HB2	1:2:436:TYR:CE2	2.36	0.61
1:B:436:TYR:CE2	1:J:530:ASN:HB2	2.36	0.60
1:g:423:LEU:HD11	1:g:595:VAL:HG23	1.84	0.60
1:C:423:LEU:HD11	1:C:595:VAL:HG23	1.84	0.60
1:H:423:LEU:HD11	1:H:595:VAL:HG23	1.84	0.60
1:K:530:ASN:HB2	1:8:436:TYR:CE2	2.36	0.60
1:Z:530:ASN:HB2	1:3:436:TYR:CE2	2.36	0.60
1:s:274:ASP:O	1:s:352:CYS:HA	2.00	0.60
1:E:530:ASN:HB2	1:F:436:TYR:CE2	2.36	0.60
1:H:436:TYR:CE2	1:W:530:ASN:HB2	2.37	0.60
1:L:423:LEU:HD11	1:L:595:VAL:HG23	1.84	0.60
1:T:436:TYR:CE2	1:d:530:ASN:HB2	2.36	0.60
1:Z:436:TYR:CE2	1:4:530:ASN:HB2	2.36	0.60
1:a:436:TYR:CE2	1:8:530:ASN:HB2	2.36	0.60
1:m:436:TYR:CE2	1:n:530:ASN:HB2	2.36	0.60
1:w:530:ASN:HB2	1:y:436:TYR:CE2	2.36	0.60
1:z:423:LEU:HD11	1:z:595:VAL:HG23	1.84	0.60
1:1:436:TYR:CE2	1:2:530:ASN:HB2	2.36	0.60
1:5:423:LEU:HD11	1:5:595:VAL:HG23	1.84	0.60
1:R:423:LEU:HD11	1:R:595:VAL:HG23	1.84	0.60
1:d:423:LEU:HD11	1:d:595:VAL:HG23	1.84	0.60
1:q:423:LEU:HD11	1:q:595:VAL:HG23	1.84	0.60
1:8:423:LEU:HD11	1:8:595:VAL:HG23	1.83	0.60
1:K:436:TYR:CE2	1:a:530:ASN:HB2	2.36	0.60
1:V:436:TYR:CE2	1:e:530:ASN:HB2	2.36	0.60
1:Z:423:LEU:HD11	1:Z:595:VAL:HG23	1.84	0.60
1:j:436:TYR:CE2	1:k:530:ASN:HB2	2.36	0.60
1:n:423:LEU:HD11	1:n:595:VAL:HG23	1.84	0.60
1:u:423:LEU:HD11	1:u:595:VAL:HG23	1.84	0.60
1:1:423:LEU:HD11	1:1:595:VAL:HG23	1.84	0.60
1:6:436:TYR:CE2	1:7:530:ASN:HB2	2.37	0.60
1:B:423:LEU:HD11	1:B:595:VAL:HG23	1.84	0.60
1:D:530:ASN:HB2	1:P:436:TYR:CE2	2.36	0.60
1:I:423:LEU:HD11	1:I:595:VAL:HG23	1.84	0.60
1:K:472:THR:HG22	1:K:493:ASN:ND2	2.17	0.60
1:3:530:ASN:HB2	1:4:436:TYR:CE2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:436:TYR:CE2	1:N:530:ASN:HB2	2.37	0.60
1:S:204:ASN:O	1:S:205:ASN:OD1	2.20	0.60
1:X:530:ASN:HB2	1:e:436:TYR:CE2	2.36	0.60
1:Y:423:LEU:HD11	1:Y:595:VAL:HG23	1.84	0.60
1:Z:420:SER:HB3	1:Z:723:PRO:HA	1.84	0.60
1:c:472:THR:HG22	1:c:493:ASN:ND2	2.17	0.60
1:c:530:ASN:HB2	1:p:436:TYR:CE2	2.36	0.60
1:i:530:ASN:HB2	1:k:436:TYR:CE2	2.37	0.60
1:w:420:SER:HB3	1:w:723:PRO:HA	1.84	0.60
1:4:472:THR:HG22	1:4:493:ASN:ND2	2.17	0.60
1:5:420:SER:HB3	1:5:723:PRO:HA	1.84	0.60
1:6:420:SER:HB3	1:6:723:PRO:HA	1.84	0.60
1:A:420:SER:HB3	1:A:723:PRO:HA	1.84	0.60
1:B:530:ASN:HB2	1:L:436:TYR:CE2	2.36	0.60
1:C:436:TYR:CE2	1:b:530:ASN:HB2	2.36	0.60
1:F:530:ASN:HB2	1:Q:436:TYR:CE2	2.36	0.60
1:H:420:SER:HB3	1:H:723:PRO:HA	1.84	0.60
1:K:420:SER:HB3	1:K:723:PRO:HA	1.84	0.60
1:O:204:ASN:O	1:O:205:ASN:OD1	2.20	0.60
1:O:423:LEU:HD11	1:O:595:VAL:HG23	1.84	0.60
1:O:436:TYR:CE2	1:m:530:ASN:HB2	2.36	0.60
1:P:423:LEU:HD11	1:P:595:VAL:HG23	1.84	0.60
1:U:423:LEU:HD11	1:U:595:VAL:HG23	1.84	0.60
1:V:423:LEU:HD11	1:V:595:VAL:HG23	1.84	0.60
1:W:420:SER:HB3	1:W:723:PRO:HA	1.84	0.60
1:Y:472:THR:HG22	1:Y:493:ASN:ND2	2.17	0.60
1:c:436:TYR:CE2	1:o:530:ASN:HB2	2.36	0.60
1:d:472:THR:HG22	1:d:493:ASN:ND2	2.17	0.60
1:e:204:ASN:O	1:e:205:ASN:OD1	2.20	0.60
1:e:472:THR:HG22	1:e:493:ASN:ND2	2.17	0.60
1:f:420:SER:HB3	1:f:723:PRO:HA	1.84	0.60
1:l:204:ASN:O	1:l:205:ASN:OD1	2.20	0.60
1:l:423:LEU:HD11	1:l:595:VAL:HG23	1.84	0.60
1:n:472:THR:HG22	1:n:493:ASN:ND2	2.17	0.60
1:p:420:SER:HB3	1:p:723:PRO:HA	1.84	0.60
1:p:423:LEU:HD11	1:p:595:VAL:HG23	1.84	0.60
1:r:204:ASN:O	1:r:205:ASN:OD1	2.20	0.60
1:v:420:SER:HB3	1:v:723:PRO:HA	1.84	0.60
1:x:436:TYR:CE2	1:y:530:ASN:HB2	2.36	0.60
1:z:436:TYR:CE2	1:1:530:ASN:HB2	2.36	0.60
1:3:423:LEU:HD11	1:3:595:VAL:HG23	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:420:SER:HB3	1:4:723:PRO:HA	1.84	0.60
1:7:423:LEU:HD11	1:7:595:VAL:HG23	1.84	0.60
1:8:420:SER:HB3	1:8:723:PRO:HA	1.84	0.60
1:E:420:SER:HB3	1:E:723:PRO:HA	1.84	0.60
1:N:436:TYR:CE2	1:P:530:ASN:HB2	2.37	0.60
1:V:420:SER:HB3	1:V:723:PRO:HA	1.84	0.60
1:a:204:ASN:O	1:a:205:ASN:OD1	2.20	0.60
1:b:420:SER:HB3	1:b:723:PRO:HA	1.84	0.60
1:c:204:ASN:O	1:c:205:ASN:OD1	2.20	0.60
1:f:530:ASN:HB2	1:g:436:TYR:CE2	2.36	0.60
1:j:423:LEU:HD11	1:j:595:VAL:HG23	1.84	0.60
1:q:530:ASN:HB2	1:s:436:TYR:CE2	2.36	0.60
1:s:204:ASN:O	1:s:205:ASN:OD1	2.20	0.60
1:s:423:LEU:HD11	1:s:595:VAL:HG23	1.84	0.60
1:w:204:ASN:O	1:w:205:ASN:OD1	2.20	0.60
1:x:423:LEU:HD11	1:x:595:VAL:HG23	1.84	0.60
1:3:204:ASN:O	1:3:205:ASN:OD1	2.20	0.60
1:C:204:ASN:O	1:C:205:ASN:OD1	2.20	0.60
1:E:204:ASN:O	1:E:205:ASN:OD1	2.20	0.60
1:J:204:ASN:O	1:J:205:ASN:OD1	2.20	0.60
1:R:204:ASN:O	1:R:205:ASN:OD1	2.20	0.60
1:T:530:ASN:HB2	1:l:436:TYR:CE2	2.36	0.60
1:U:204:ASN:O	1:U:205:ASN:OD1	2.20	0.60
1:a:423:LEU:HD11	1:a:595:VAL:HG23	1.84	0.60
1:b:423:LEU:HD11	1:b:595:VAL:HG23	1.84	0.60
1:f:436:TYR:CE2	1:h:530:ASN:HB2	2.36	0.60
1:j:204:ASN:O	1:j:205:ASN:OD1	2.20	0.60
1:o:472:THR:HG22	1:o:493:ASN:ND2	2.17	0.60
1:q:472:THR:HG22	1:q:493:ASN:ND2	2.17	0.60
1:u:204:ASN:O	1:u:205:ASN:OD1	2.20	0.60
1:7:472:THR:HG22	1:7:493:ASN:ND2	2.17	0.60
1:I:204:ASN:O	1:I:205:ASN:OD1	2.20	0.59
1:M:530:ASN:HB2	1:b:436:TYR:CE2	2.36	0.59
1:N:472:THR:HG22	1:N:493:ASN:ND2	2.17	0.59
1:P:204:ASN:O	1:P:205:ASN:OD1	2.20	0.59
1:Q:423:LEU:HD11	1:Q:595:VAL:HG23	1.84	0.59
1:R:472:THR:HG22	1:R:493:ASN:ND2	2.17	0.59
1:R:530:ASN:HB2	1:U:436:TYR:CE2	2.36	0.59
1:U:420:SER:HB3	1:U:723:PRO:HA	1.84	0.59
1:W:423:LEU:HD11	1:W:595:VAL:HG23	1.84	0.59
1:X:423:LEU:HD11	1:X:595:VAL:HG23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:472:THR:HG22	1:X:493:ASN:ND2	2.17	0.59
1:f:423:LEU:HD11	1:f:595:VAL:HG23	1.84	0.59
1:g:204:ASN:O	1:g:205:ASN:OD1	2.20	0.59
1:i:472:THR:HG22	1:i:493:ASN:ND2	2.17	0.59
1:o:423:LEU:HD11	1:o:595:VAL:HG23	1.84	0.59
1:q:204:ASN:O	1:q:205:ASN:OD1	2.20	0.59
1:s:420:SER:HB3	1:s:723:PRO:HA	1.84	0.59
1:t:423:LEU:HD11	1:t:595:VAL:HG23	1.84	0.59
1:1:204:ASN:O	1:1:205:ASN:OD1	2.20	0.59
1:2:204:ASN:O	1:2:205:ASN:OD1	2.20	0.59
1:B:204:ASN:O	1:B:205:ASN:OD1	2.20	0.59
1:G:423:LEU:HD11	1:G:595:VAL:HG23	1.84	0.59
1:N:423:LEU:HD11	1:N:595:VAL:HG23	1.84	0.59
1:P:472:THR:HG22	1:P:493:ASN:ND2	2.17	0.59
1:T:420:SER:HB3	1:T:723:PRO:HA	1.84	0.59
1:V:204:ASN:O	1:V:205:ASN:OD1	2.20	0.59
1:X:204:ASN:O	1:X:205:ASN:OD1	2.20	0.59
1:i:423:LEU:HD11	1:i:595:VAL:HG23	1.84	0.59
1:j:472:THR:HG22	1:j:493:ASN:ND2	2.17	0.59
1:p:204:ASN:O	1:p:205:ASN:OD1	2.20	0.59
1:2:472:THR:HG22	1:2:493:ASN:ND2	2.17	0.59
1:6:423:LEU:HD11	1:6:595:VAL:HG23	1.84	0.59
1:F:472:THR:HG22	1:F:493:ASN:ND2	2.17	0.59
1:G:472:THR:HG22	1:G:493:ASN:ND2	2.17	0.59
1:J:472:THR:HG22	1:J:493:ASN:ND2	2.17	0.59
1:M:204:ASN:O	1:M:205:ASN:OD1	2.20	0.59
1:h:204:ASN:O	1:h:205:ASN:OD1	2.20	0.59
1:k:423:LEU:HD11	1:k:595:VAL:HG23	1.84	0.59
1:m:420:SER:HB3	1:m:723:PRO:HA	1.84	0.59
1:o:204:ASN:O	1:o:205:ASN:OD1	2.20	0.59
1:t:420:SER:HB3	1:t:723:PRO:HA	1.84	0.59
1:u:472:THR:HG22	1:u:493:ASN:ND2	2.17	0.59
1:v:423:LEU:HD11	1:v:595:VAL:HG23	1.84	0.59
1:x:472:THR:HG22	1:x:493:ASN:ND2	2.17	0.59
1:y:472:THR:HG22	1:y:493:ASN:ND2	2.17	0.59
1:3:420:SER:HB3	1:3:723:PRO:HA	1.84	0.59
1:A:423:LEU:HD11	1:A:595:VAL:HG23	1.84	0.59
1:D:420:SER:HB3	1:D:723:PRO:HA	1.84	0.59
1:D:423:LEU:HD11	1:D:595:VAL:HG23	1.84	0.59
1:G:420:SER:HB3	1:G:723:PRO:HA	1.84	0.59
1:I:472:THR:HG22	1:I:493:ASN:ND2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:420:SER:HB3	1:M:723:PRO:HA	1.84	0.59
1:Q:472:THR:HG22	1:Q:493:ASN:ND2	2.17	0.59
1:T:204:ASN:O	1:T:205:ASN:OD1	2.20	0.59
1:a:351:GLY:HA3	1:a:364:PRO:HG3	1.85	0.59
1:a:420:SER:HB3	1:a:723:PRO:HA	1.84	0.59
1:i:420:SER:HB3	1:i:723:PRO:HA	1.84	0.59
1:i:436:TYR:CE2	1:j:530:ASN:HB2	2.37	0.59
1:k:420:SER:HB3	1:k:723:PRO:HA	1.84	0.59
1:m:204:ASN:O	1:m:205:ASN:OD1	2.20	0.59
1:t:472:THR:HG22	1:t:493:ASN:ND2	2.17	0.59
1:y:351:GLY:HA3	1:y:364:PRO:HG3	1.85	0.59
1:3:351:GLY:HA3	1:3:364:PRO:HG3	1.85	0.59
1:B:420:SER:HB3	1:B:723:PRO:HA	1.84	0.59
1:F:351:GLY:HA3	1:F:364:PRO:HG3	1.85	0.59
1:L:204:ASN:O	1:L:205:ASN:OD1	2.20	0.59
1:N:420:SER:HB3	1:N:723:PRO:HA	1.84	0.59
1:Q:204:ASN:O	1:Q:205:ASN:OD1	2.20	0.59
1:R:420:SER:HB3	1:R:723:PRO:HA	1.84	0.59
1:S:472:THR:HG22	1:S:493:ASN:ND2	2.17	0.59
1:a:472:THR:HG22	1:a:493:ASN:ND2	2.17	0.59
1:c:420:SER:HB3	1:c:723:PRO:HA	1.84	0.59
1:c:423:LEU:HD11	1:c:595:VAL:HG23	1.84	0.59
1:e:420:SER:HB3	1:e:723:PRO:HA	1.84	0.59
1:e:423:LEU:HD11	1:e:595:VAL:HG23	1.84	0.59
1:l:472:THR:HG22	1:l:493:ASN:ND2	2.17	0.59
1:q:420:SER:HB3	1:q:723:PRO:HA	1.84	0.59
1:x:204:ASN:O	1:x:205:ASN:OD1	2.20	0.59
1:y:204:ASN:O	1:y:205:ASN:OD1	2.20	0.59
1:z:204:ASN:O	1:z:205:ASN:OD1	2.20	0.59
1:D:204:ASN:O	1:D:205:ASN:OD1	2.20	0.59
1:F:204:ASN:O	1:F:205:ASN:OD1	2.20	0.59
1:G:277:ARG:CZ	1:G:279:HIS:HE1	2.16	0.59
1:O:277:ARG:CZ	1:O:279:HIS:HE1	2.16	0.59
1:O:472:THR:HG22	1:O:493:ASN:ND2	2.17	0.59
1:k:204:ASN:O	1:k:205:ASN:OD1	2.20	0.59
1:l:277:ARG:CZ	1:l:279:HIS:HE1	2.16	0.59
1:u:420:SER:HB3	1:u:723:PRO:HA	1.84	0.59
1:1:420:SER:HB3	1:1:723:PRO:HA	1.84	0.59
1:8:277:ARG:CZ	1:8:279:HIS:HE1	2.16	0.59
1:F:423:LEU:HD11	1:F:595:VAL:HG23	1.84	0.59
1:I:420:SER:HB3	1:I:723:PRO:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:204:ASN:O	1:K:205:ASN:OD1	2.20	0.59
1:P:420:SER:HB3	1:P:723:PRO:HA	1.84	0.59
1:V:472:THR:HG22	1:V:493:ASN:ND2	2.17	0.59
1:Z:277:ARG:CZ	1:Z:279:HIS:HE1	2.16	0.59
1:d:204:ASN:O	1:d:205:ASN:OD1	2.20	0.59
1:h:420:SER:HB3	1:h:723:PRO:HA	1.84	0.59
1:j:420:SER:HB3	1:j:723:PRO:HA	1.84	0.59
1:n:204:ASN:O	1:n:205:ASN:OD1	2.20	0.59
1:r:472:THR:HG22	1:r:493:ASN:ND2	2.17	0.59
1:t:277:ARG:CZ	1:t:279:HIS:HE1	2.16	0.59
1:v:204:ASN:O	1:v:205:ASN:OD1	2.20	0.59
1:y:420:SER:HB3	1:y:723:PRO:HA	1.84	0.59
1:3:472:THR:HG22	1:3:493:ASN:ND2	2.17	0.59
1:4:204:ASN:O	1:4:205:ASN:OD1	2.20	0.59
1:7:351:GLY:HA3	1:7:364:PRO:HG3	1.85	0.59
1:A:277:ARG:CZ	1:A:279:HIS:HE1	2.16	0.59
1:A:288:GLN:NE2	1:A:689:TYR:O	2.35	0.59
1:A:472:THR:HG22	1:A:493:ASN:ND2	2.17	0.59
1:F:420:SER:HB3	1:F:723:PRO:HA	1.84	0.59
1:G:204:ASN:O	1:G:205:ASN:OD1	2.20	0.59
1:J:423:LEU:HD11	1:J:595:VAL:HG23	1.84	0.59
1:Z:351:GLY:HA3	1:Z:364:PRO:HG3	1.85	0.59
1:n:277:ARG:CZ	1:n:279:HIS:HE1	2.16	0.59
1:p:472:THR:HG22	1:p:493:ASN:ND2	2.17	0.59
1:r:277:ARG:CZ	1:r:279:HIS:HE1	2.16	0.59
1:t:204:ASN:O	1:t:205:ASN:OD1	2.20	0.59
1:v:277:ARG:CZ	1:v:279:HIS:HE1	2.16	0.59
1:v:288:GLN:NE2	1:v:689:TYR:O	2.35	0.59
1:w:423:LEU:HD11	1:w:595:VAL:HG23	1.84	0.59
1:x:351:GLY:HA3	1:x:364:PRO:HG3	1.85	0.59
1:4:423:LEU:HD11	1:4:595:VAL:HG23	1.84	0.59
1:8:351:GLY:HA3	1:8:364:PRO:HG3	1.85	0.59
1:A:204:ASN:O	1:A:205:ASN:OD1	2.20	0.59
1:B:277:ARG:CZ	1:B:279:HIS:HE1	2.16	0.59
1:B:472:THR:HG22	1:B:493:ASN:ND2	2.17	0.59
1:I:351:GLY:HA3	1:I:364:PRO:HG3	1.85	0.59
1:K:423:LEU:HD11	1:K:595:VAL:HG23	1.84	0.59
1:M:472:THR:HG22	1:M:493:ASN:ND2	2.17	0.59
1:Q:351:GLY:HA3	1:Q:364:PRO:HG3	1.85	0.59
1:S:277:ARG:CZ	1:S:279:HIS:HE1	2.16	0.59
1:U:472:THR:HG22	1:U:493:ASN:ND2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:351:GLY:HA3	1:b:364:PRO:HG3	1.85	0.59
1:b:472:THR:HG22	1:b:493:ASN:ND2	2.17	0.59
1:d:277:ARG:CZ	1:d:279:HIS:HE1	2.16	0.59
1:h:472:THR:HG22	1:h:493:ASN:ND2	2.17	0.59
1:r:436:TYR:CE2	1:s:530:ASN:HB2	2.36	0.59
1:s:472:THR:HG22	1:s:493:ASN:ND2	2.17	0.59
1:u:351:GLY:HA3	1:u:364:PRO:HG3	1.85	0.59
1:y:277:ARG:CZ	1:y:279:HIS:HE1	2.16	0.59
1:y:423:LEU:HD11	1:y:595:VAL:HG23	1.84	0.59
1:6:277:ARG:CZ	1:6:279:HIS:HE1	2.16	0.59
1:8:204:ASN:O	1:8:205:ASN:OD1	2.20	0.59
1:C:472:THR:HG22	1:C:493:ASN:ND2	2.17	0.59
1:D:277:ARG:CZ	1:D:279:HIS:HE1	2.16	0.59
1:F:277:ARG:CZ	1:F:279:HIS:HE1	2.16	0.59
1:H:277:ARG:CZ	1:H:279:HIS:HE1	2.16	0.59
1:H:472:THR:HG22	1:H:493:ASN:ND2	2.17	0.59
1:S:436:TYR:CE2	1:U:530:ASN:HB2	2.36	0.59
1:Y:351:GLY:HA3	1:Y:364:PRO:HG3	1.85	0.59
1:Z:204:ASN:O	1:Z:205:ASN:OD1	2.20	0.59
1:k:277:ARG:CZ	1:k:279:HIS:HE1	2.16	0.59
1:l:420:SER:HB3	1:l:723:PRO:HA	1.84	0.59
1:u:277:ARG:CZ	1:u:279:HIS:HE1	2.16	0.59
1:v:472:THR:HG22	1:v:493:ASN:ND2	2.17	0.59
1:1:472:THR:HG22	1:1:493:ASN:ND2	2.17	0.59
1:5:277:ARG:CZ	1:5:279:HIS:HE1	2.16	0.59
1:5:472:THR:HG22	1:5:493:ASN:ND2	2.17	0.59
1:7:204:ASN:O	1:7:205:ASN:OD1	2.20	0.59
1:8:279:HIS:HD2	1:8:355:ALA:HA	1.68	0.59
1:C:420:SER:HB3	1:C:723:PRO:HA	1.84	0.58
1:D:351:GLY:HA3	1:D:364:PRO:HG3	1.85	0.58
1:D:472:THR:HG22	1:D:493:ASN:ND2	2.17	0.58
1:F:279:HIS:HD2	1:F:355:ALA:HA	1.68	0.58
1:M:351:GLY:HA3	1:M:364:PRO:HG3	1.85	0.58
1:N:204:ASN:O	1:N:205:ASN:OD1	2.20	0.58
1:O:420:SER:HB3	1:O:723:PRO:HA	1.84	0.58
1:T:472:THR:HG22	1:T:493:ASN:ND2	2.17	0.58
1:U:351:GLY:HA3	1:U:364:PRO:HG3	1.85	0.58
1:W:277:ARG:CZ	1:W:279:HIS:HE1	2.16	0.58
1:Z:279:HIS:HD2	1:Z:355:ALA:HA	1.68	0.58
1:Z:472:THR:HG22	1:Z:493:ASN:ND2	2.17	0.58
1:f:351:GLY:HA3	1:f:364:PRO:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:472:THR:HG22	1:f:493:ASN:ND2	2.17	0.58
1:g:420:SER:HB3	1:g:723:PRO:HA	1.84	0.58
1:g:472:THR:HG22	1:g:493:ASN:ND2	2.17	0.58
1:i:204:ASN:O	1:i:205:ASN:OD1	2.20	0.58
1:k:472:THR:HG22	1:k:493:ASN:ND2	2.17	0.58
1:m:472:THR:HG22	1:m:493:ASN:ND2	2.17	0.58
1:y:279:HIS:HD2	1:y:355:ALA:HA	1.68	0.58
1:z:351:GLY:HA3	1:z:364:PRO:HG3	1.85	0.58
1:1:277:ARG:CZ	1:1:279:HIS:HE1	2.16	0.58
1:2:423:LEU:HD11	1:2:595:VAL:HG23	1.84	0.58
1:E:423:LEU:HD11	1:E:595:VAL:HG23	1.84	0.58
1:H:279:HIS:HD2	1:H:355:ALA:HA	1.69	0.58
1:I:277:ARG:CZ	1:I:279:HIS:HE1	2.16	0.58
1:L:351:GLY:HA3	1:L:364:PRO:HG3	1.85	0.58
1:Y:204:ASN:O	1:Y:205:ASN:OD1	2.20	0.58
1:f:277:ARG:CZ	1:f:279:HIS:HE1	2.16	0.58
1:s:351:GLY:HA3	1:s:364:PRO:HG3	1.85	0.58
1:v:351:GLY:HA3	1:v:364:PRO:HG3	1.85	0.58
1:5:279:HIS:HD2	1:5:355:ALA:HA	1.68	0.58
1:8:472:THR:HG22	1:8:493:ASN:ND2	2.17	0.58
1:A:351:GLY:HA3	1:A:364:PRO:HG3	1.85	0.58
1:E:472:THR:HG22	1:E:493:ASN:ND2	2.17	0.58
1:S:279:HIS:HD2	1:S:355:ALA:HA	1.68	0.58
1:V:279:HIS:HD2	1:V:355:ALA:HA	1.69	0.58
1:b:277:ARG:CZ	1:b:279:HIS:HE1	2.16	0.58
1:f:204:ASN:O	1:f:205:ASN:OD1	2.20	0.58
1:h:351:GLY:HA3	1:h:364:PRO:HG3	1.85	0.58
1:k:351:GLY:HA3	1:k:364:PRO:HG3	1.85	0.58
1:p:279:HIS:HD2	1:p:355:ALA:HA	1.69	0.58
1:C:277:ARG:CZ	1:C:279:HIS:HE1	2.16	0.58
1:C:288:GLN:NE2	1:C:689:TYR:O	2.35	0.58
1:E:277:ARG:CZ	1:E:279:HIS:HE1	2.16	0.58
1:N:279:HIS:HD2	1:N:355:ALA:HA	1.68	0.58
1:W:472:THR:HG22	1:W:493:ASN:ND2	2.17	0.58
1:b:204:ASN:O	1:b:205:ASN:OD1	2.20	0.58
1:g:288:GLN:NE2	1:g:689:TYR:O	2.35	0.58
1:i:279:HIS:HD2	1:i:355:ALA:HA	1.68	0.58
1:m:277:ARG:CZ	1:m:279:HIS:HE1	2.16	0.58
1:m:351:GLY:HA3	1:m:364:PRO:HG3	1.85	0.58
1:q:277:ARG:CZ	1:q:279:HIS:HE1	2.16	0.58
1:w:277:ARG:CZ	1:w:279:HIS:HE1	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:279:HIS:HD2	1:G:355:ALA:HA	1.68	0.58
1:H:204:ASN:O	1:H:205:ASN:OD1	2.20	0.58
1:J:351:GLY:HA3	1:J:364:PRO:HG3	1.85	0.58
1:M:423:LEU:HD11	1:M:595:VAL:HG23	1.84	0.58
1:Q:277:ARG:CZ	1:Q:279:HIS:HE1	2.16	0.58
1:R:277:ARG:CZ	1:R:279:HIS:HE1	2.16	0.58
1:T:277:ARG:CZ	1:T:279:HIS:HE1	2.16	0.58
1:T:351:GLY:HA3	1:T:364:PRO:HG3	1.85	0.58
1:T:423:LEU:HD11	1:T:595:VAL:HG23	1.84	0.58
1:c:277:ARG:CZ	1:c:279:HIS:HE1	2.16	0.58
1:g:277:ARG:CZ	1:g:279:HIS:HE1	2.16	0.58
1:h:423:LEU:HD11	1:h:595:VAL:HG23	1.84	0.58
1:n:420:SER:HB3	1:n:723:PRO:HA	1.84	0.58
1:t:279:HIS:HD2	1:t:355:ALA:HA	1.68	0.58
1:w:472:THR:HG22	1:w:493:ASN:ND2	2.17	0.58
1:1:351:GLY:HA3	1:1:364:PRO:HG3	1.85	0.58
1:5:204:ASN:O	1:5:205:ASN:OD1	2.20	0.58
1:6:472:THR:HG22	1:6:493:ASN:ND2	2.17	0.58
1:7:420:SER:HB3	1:7:723:PRO:HA	1.84	0.58
1:H:687:ILE:HD12	1:W:382:ARG:HE	1.69	0.58
1:W:204:ASN:O	1:W:205:ASN:OD1	2.20	0.58
1:i:277:ARG:CZ	1:i:279:HIS:HE1	2.16	0.58
1:j:277:ARG:CZ	1:j:279:HIS:HE1	2.16	0.58
1:r:279:HIS:HD2	1:r:355:ALA:HA	1.69	0.58
1:x:277:ARG:CZ	1:x:279:HIS:HE1	2.16	0.58
1:E:279:HIS:HD2	1:E:355:ALA:HA	1.68	0.58
1:N:277:ARG:CZ	1:N:279:HIS:HE1	2.16	0.58
1:U:279:HIS:HD2	1:U:355:ALA:HA	1.68	0.58
1:V:277:ARG:CZ	1:V:279:HIS:HE1	2.16	0.58
1:X:277:ARG:CZ	1:X:279:HIS:HE1	2.16	0.58
1:d:351:GLY:HA3	1:d:364:PRO:HG3	1.85	0.58
1:d:420:SER:HB3	1:d:723:PRO:HA	1.84	0.58
1:e:277:ARG:CZ	1:e:279:HIS:HE1	2.16	0.58
1:m:423:LEU:HD11	1:m:595:VAL:HG23	1.84	0.58
1:p:277:ARG:CZ	1:p:279:HIS:HE1	2.16	0.58
1:s:279:HIS:HD2	1:s:355:ALA:HA	1.68	0.58
1:w:279:HIS:HD2	1:w:355:ALA:HA	1.68	0.58
1:2:351:GLY:HA3	1:2:364:PRO:HG3	1.85	0.58
1:6:204:ASN:O	1:6:205:ASN:OD1	2.20	0.58
1:B:351:GLY:HA3	1:B:364:PRO:HG3	1.85	0.58
1:L:420:SER:HB3	1:L:723:PRO:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:472:THR:HG22	1:L:493:ASN:ND2	2.17	0.58
1:M:279:HIS:HD2	1:M:355:ALA:HA	1.68	0.58
1:P:277:ARG:CZ	1:P:279:HIS:HE1	2.16	0.58
1:R:351:GLY:HA3	1:R:364:PRO:HG3	1.85	0.58
1:W:351:GLY:HA3	1:W:364:PRO:HG3	1.85	0.58
1:Y:420:SER:HB3	1:Y:723:PRO:HA	1.84	0.58
1:a:277:ARG:CZ	1:a:279:HIS:HE1	2.16	0.58
1:j:351:GLY:HA3	1:j:364:PRO:HG3	1.85	0.58
1:n:351:GLY:HA3	1:n:364:PRO:HG3	1.85	0.58
1:o:277:ARG:CZ	1:o:279:HIS:HE1	2.16	0.58
1:q:351:GLY:HA3	1:q:364:PRO:HG3	1.85	0.58
1:z:420:SER:HB3	1:z:723:PRO:HA	1.84	0.58
1:3:277:ARG:CZ	1:3:279:HIS:HE1	2.16	0.58
1:H:351:GLY:HA3	1:H:364:PRO:HG3	1.85	0.58
1:J:277:ARG:CZ	1:J:279:HIS:HE1	2.16	0.58
1:J:420:SER:HB3	1:J:723:PRO:HA	1.84	0.58
1:P:351:GLY:HA3	1:P:364:PRO:HG3	1.85	0.58
1:X:351:GLY:HA3	1:X:364:PRO:HG3	1.85	0.58
1:X:420:SER:HB3	1:X:723:PRO:HA	1.84	0.58
1:b:279:HIS:HD2	1:b:355:ALA:HA	1.68	0.58
1:c:351:GLY:HA3	1:c:364:PRO:HG3	1.85	0.58
1:e:351:GLY:HA3	1:e:364:PRO:HG3	1.85	0.58
1:h:279:HIS:HD2	1:h:355:ALA:HA	1.68	0.58
1:m:279:HIS:HD2	1:m:355:ALA:HA	1.68	0.58
1:r:420:SER:HB3	1:r:723:PRO:HA	1.84	0.58
1:r:423:LEU:HD11	1:r:595:VAL:HG23	1.84	0.58
1:z:472:THR:HG22	1:z:493:ASN:ND2	2.17	0.58
1:O:279:HIS:HD2	1:O:355:ALA:HA	1.68	0.58
1:S:420:SER:HB3	1:S:723:PRO:HA	1.84	0.58
1:T:279:HIS:HD2	1:T:355:ALA:HA	1.68	0.58
1:U:277:ARG:CZ	1:U:279:HIS:HE1	2.16	0.58
1:j:348:GLY:HA3	1:j:624:MET:HE1	1.86	0.58
1:x:420:SER:HB3	1:x:723:PRO:HA	1.84	0.58
1:z:279:HIS:HD2	1:z:355:ALA:HA	1.68	0.58
1:2:277:ARG:CZ	1:2:279:HIS:HE1	2.16	0.58
1:2:420:SER:HB3	1:2:723:PRO:HA	1.84	0.58
1:6:351:GLY:HA3	1:6:364:PRO:HG3	1.85	0.58
1:7:348:GLY:HA3	1:7:624:MET:HE1	1.86	0.58
1:J:348:GLY:HA3	1:J:624:MET:HE1	1.86	0.57
1:K:348:GLY:HA3	1:K:624:MET:HE1	1.86	0.57
1:P:348:GLY:HA3	1:P:624:MET:HE1	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:348:GLY:HA3	1:Y:624:MET:HE1	1.86	0.57
1:a:279:HIS:HD2	1:a:355:ALA:HA	1.69	0.57
1:f:279:HIS:HD2	1:f:355:ALA:HA	1.68	0.57
1:l:279:HIS:HD2	1:l:355:ALA:HA	1.68	0.57
1:o:351:GLY:HA3	1:o:364:PRO:HG3	1.85	0.57
1:p:351:GLY:HA3	1:p:364:PRO:HG3	1.85	0.57
1:s:277:ARG:CZ	1:s:279:HIS:HE1	2.16	0.57
1:2:348:GLY:HA3	1:2:624:MET:HE1	1.86	0.57
1:4:277:ARG:CZ	1:4:279:HIS:HE1	2.16	0.57
1:4:348:GLY:HA3	1:4:624:MET:HE1	1.86	0.57
1:5:351:GLY:HA3	1:5:364:PRO:HG3	1.85	0.57
1:K:277:ARG:CZ	1:K:279:HIS:HE1	2.16	0.57
1:Q:279:HIS:HD2	1:Q:355:ALA:HA	1.69	0.57
1:S:351:GLY:HA3	1:S:364:PRO:HG3	1.85	0.57
1:S:423:LEU:HD11	1:S:595:VAL:HG23	1.84	0.57
1:W:279:HIS:HD2	1:W:355:ALA:HA	1.68	0.57
1:Y:277:ARG:CZ	1:Y:279:HIS:HE1	2.16	0.57
1:b:348:GLY:HA3	1:b:624:MET:HE1	1.86	0.57
1:o:420:SER:HB3	1:o:723:PRO:HA	1.84	0.57
1:3:279:HIS:HD2	1:3:355:ALA:HA	1.69	0.57
1:3:288:GLN:NE2	1:3:689:TYR:O	2.35	0.57
1:6:279:HIS:HD2	1:6:355:ALA:HA	1.68	0.57
1:I:279:HIS:HD2	1:I:355:ALA:HA	1.68	0.57
1:K:279:HIS:HD2	1:K:355:ALA:HA	1.68	0.57
1:K:351:GLY:HA3	1:K:364:PRO:HG3	1.85	0.57
1:N:351:GLY:HA3	1:N:364:PRO:HG3	1.85	0.57
1:O:351:GLY:HA3	1:O:364:PRO:HG3	1.85	0.57
1:Q:420:SER:HB3	1:Q:723:PRO:HA	1.84	0.57
1:V:351:GLY:HA3	1:V:364:PRO:HG3	1.85	0.57
1:f:348:GLY:HA3	1:f:624:MET:HE1	1.86	0.57
1:i:351:GLY:HA3	1:i:364:PRO:HG3	1.85	0.57
1:l:351:GLY:HA3	1:l:364:PRO:HG3	1.85	0.57
1:y:348:GLY:HA3	1:y:624:MET:HE1	1.86	0.57
1:4:279:HIS:HD2	1:4:355:ALA:HA	1.68	0.57
1:7:277:ARG:CZ	1:7:279:HIS:HE1	2.16	0.57
1:E:351:GLY:HA3	1:E:364:PRO:HG3	1.85	0.57
1:F:348:GLY:HA3	1:F:624:MET:HE1	1.86	0.57
1:L:279:HIS:HD2	1:L:355:ALA:HA	1.68	0.57
1:R:279:HIS:HD2	1:R:355:ALA:HA	1.69	0.57
1:X:288:GLN:NE2	1:X:689:TYR:O	2.35	0.57
1:a:288:GLN:NE2	1:a:689:TYR:O	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:279:HIS:HD2	1:q:355:ALA:HA	1.69	0.57
1:q:348:GLY:HA3	1:q:624:MET:HE1	1.86	0.57
1:u:279:HIS:HD2	1:u:355:ALA:HA	1.69	0.57
1:w:351:GLY:HA3	1:w:364:PRO:HG3	1.85	0.57
1:z:277:ARG:CZ	1:z:279:HIS:HE1	2.16	0.57
1:C:348:GLY:HA3	1:C:624:MET:HE1	1.86	0.57
1:G:351:GLY:HA3	1:G:364:PRO:HG3	1.85	0.57
1:H:400:ASN:HD21	1:Z:214:ALA:H	1.53	0.57
1:H:461:TYR:HA	1:W:506:PRO:HD3	1.85	0.57
1:L:277:ARG:CZ	1:L:279:HIS:HE1	2.16	0.57
1:R:348:GLY:HA3	1:R:624:MET:HE1	1.86	0.57
1:c:279:HIS:HD2	1:c:355:ALA:HA	1.68	0.57
1:g:279:HIS:HD2	1:g:355:ALA:HA	1.69	0.57
1:o:279:HIS:HD2	1:o:355:ALA:HA	1.68	0.57
1:r:351:GLY:HA3	1:r:364:PRO:HG3	1.85	0.57
1:t:351:GLY:HA3	1:t:364:PRO:HG3	1.85	0.57
1:v:279:HIS:HD2	1:v:355:ALA:HA	1.68	0.57
1:x:279:HIS:HD2	1:x:355:ALA:HA	1.69	0.57
1:1:348:GLY:HA3	1:1:624:MET:HE1	1.86	0.57
1:4:351:GLY:HA3	1:4:364:PRO:HG3	1.85	0.57
1:A:279:HIS:HD2	1:A:355:ALA:HA	1.68	0.57
1:X:279:HIS:HD2	1:X:355:ALA:HA	1.68	0.57
1:Y:279:HIS:HD2	1:Y:355:ALA:HA	1.68	0.57
1:d:279:HIS:HD2	1:d:355:ALA:HA	1.69	0.57
1:g:348:GLY:HA3	1:g:624:MET:HE1	1.86	0.57
1:h:277:ARG:CZ	1:h:279:HIS:HE1	2.16	0.57
1:o:288:GLN:NE2	1:o:689:TYR:O	2.35	0.57
1:7:279:HIS:HD2	1:7:355:ALA:HA	1.69	0.57
1:B:279:HIS:HD2	1:B:355:ALA:HA	1.68	0.57
1:B:348:GLY:HA3	1:B:624:MET:HE1	1.86	0.57
1:C:279:HIS:HD2	1:C:355:ALA:HA	1.69	0.57
1:H:506:PRO:HD3	1:Y:461:TYR:HA	1.86	0.57
1:U:348:GLY:HA3	1:U:624:MET:HE1	1.86	0.57
1:b:610:LYS:HB2	1:b:632:PRO:HG3	1.87	0.57
1:n:279:HIS:HD2	1:n:355:ALA:HA	1.69	0.57
1:F:610:LYS:HB2	1:F:632:PRO:HG3	1.87	0.57
1:G:348:GLY:HA3	1:G:624:MET:HE1	1.86	0.57
1:K:610:LYS:HB2	1:K:632:PRO:HG3	1.87	0.57
1:M:277:ARG:CZ	1:M:279:HIS:HE1	2.16	0.57
1:N:348:GLY:HA3	1:N:624:MET:HE1	1.86	0.57
1:T:610:LYS:HB2	1:T:632:PRO:HG3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:279:HIS:HD2	1:e:355:ALA:HA	1.68	0.57
1:f:610:LYS:HB2	1:f:632:PRO:HG3	1.87	0.57
1:m:610:LYS:HB2	1:m:632:PRO:HG3	1.87	0.57
1:s:348:GLY:HA3	1:s:624:MET:HE1	1.86	0.57
1:y:610:LYS:HB2	1:y:632:PRO:HG3	1.87	0.57
1:1:279:HIS:HD2	1:1:355:ALA:HA	1.68	0.57
1:4:610:LYS:HB2	1:4:632:PRO:HG3	1.87	0.57
1:B:610:LYS:HB2	1:B:632:PRO:HG3	1.87	0.57
1:X:348:GLY:HA3	1:X:624:MET:HE1	1.86	0.57
1:Y:610:LYS:HB2	1:Y:632:PRO:HG3	1.87	0.57
1:i:348:GLY:HA3	1:i:624:MET:HE1	1.86	0.57
1:t:348:GLY:HA3	1:t:624:MET:HE1	1.86	0.57
1:u:288:GLN:NE2	1:u:689:TYR:O	2.35	0.57
1:w:348:GLY:HA3	1:w:624:MET:HE1	1.86	0.57
1:1:610:LYS:HB2	1:1:632:PRO:HG3	1.87	0.57
1:7:610:LYS:HB2	1:7:632:PRO:HG3	1.87	0.57
1:E:348:GLY:HA3	1:E:624:MET:HE1	1.86	0.57
1:H:288:GLN:NE2	1:H:689:TYR:O	2.35	0.57
1:J:279:HIS:HD2	1:J:355:ALA:HA	1.68	0.57
1:l:610:LYS:HB2	1:l:632:PRO:HG3	1.87	0.57
1:o:348:GLY:HA3	1:o:624:MET:HE1	1.86	0.57
1:5:288:GLN:NE2	1:5:689:TYR:O	2.35	0.57
1:M:348:GLY:HA3	1:M:624:MET:HE1	1.86	0.56
1:P:288:GLN:NE2	1:P:689:TYR:O	2.35	0.56
1:Q:610:LYS:HB2	1:Q:632:PRO:HG3	1.87	0.56
1:h:348:GLY:HA3	1:h:624:MET:HE1	1.86	0.56
1:n:348:GLY:HA3	1:n:624:MET:HE1	1.86	0.56
1:x:610:LYS:HB2	1:x:632:PRO:HG3	1.87	0.56
1:C:351:GLY:HA3	1:C:364:PRO:HG3	1.85	0.56
1:D:279:HIS:HD2	1:D:355:ALA:HA	1.68	0.56
1:E:461:TYR:HA	1:Q:506:PRO:HD3	1.88	0.56
1:H:610:LYS:HB2	1:H:632:PRO:HG3	1.87	0.56
1:I:288:GLN:NE2	1:I:689:TYR:O	2.35	0.56
1:O:610:LYS:HB2	1:O:632:PRO:HG3	1.87	0.56
1:V:610:LYS:HB2	1:V:632:PRO:HG3	1.87	0.56
1:d:348:GLY:HA3	1:d:624:MET:HE1	1.86	0.56
1:k:279:HIS:HD2	1:k:355:ALA:HA	1.68	0.56
1:v:610:LYS:HB2	1:v:632:PRO:HG3	1.87	0.56
1:5:610:LYS:HB2	1:5:632:PRO:HG3	1.87	0.56
1:8:610:LYS:HB2	1:8:632:PRO:HG3	1.87	0.56
1:A:610:LYS:HB2	1:A:632:PRO:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:348:GLY:HA3	1:D:624:MET:HE1	1.86	0.56
1:D:506:PRO:HD3	1:P:461:TYR:HA	1.88	0.56
1:E:610:LYS:HB2	1:E:632:PRO:HG3	1.87	0.56
1:L:610:LYS:HB2	1:L:632:PRO:HG3	1.87	0.56
1:O:348:GLY:HA3	1:O:624:MET:HE1	1.86	0.56
1:P:279:HIS:HD2	1:P:355:ALA:HA	1.68	0.56
1:R:610:LYS:HB2	1:R:632:PRO:HG3	1.87	0.56
1:S:348:GLY:HA3	1:S:624:MET:HE1	1.86	0.56
1:S:610:LYS:HB2	1:S:632:PRO:HG3	1.87	0.56
1:V:461:TYR:HA	1:e:506:PRO:HD3	1.88	0.56
1:W:288:GLN:NE2	1:W:689:TYR:O	2.35	0.56
1:W:348:GLY:HA3	1:W:624:MET:HE1	1.86	0.56
1:W:610:LYS:HB2	1:W:632:PRO:HG3	1.87	0.56
1:Z:461:TYR:HA	1:4:506:PRO:HD3	1.88	0.56
1:Z:610:LYS:HB2	1:Z:632:PRO:HG3	1.87	0.56
1:c:506:PRO:HD3	1:p:461:TYR:HA	1.88	0.56
1:d:610:LYS:HB2	1:d:632:PRO:HG3	1.87	0.56
1:e:348:GLY:HA3	1:e:624:MET:HE1	1.86	0.56
1:f:687:ILE:HD12	1:h:382:ARG:HE	1.71	0.56
1:g:351:GLY:HA3	1:g:364:PRO:HG3	1.85	0.56
1:j:279:HIS:HD2	1:j:355:ALA:HA	1.68	0.56
1:j:288:GLN:NE2	1:j:689:TYR:O	2.35	0.56
1:j:461:TYR:HA	1:k:506:PRO:HD3	1.88	0.56
1:k:348:GLY:HA3	1:k:624:MET:HE1	1.86	0.56
1:m:348:GLY:HA3	1:m:624:MET:HE1	1.86	0.56
1:p:610:LYS:HB2	1:p:632:PRO:HG3	1.87	0.56
1:q:610:LYS:HB2	1:q:632:PRO:HG3	1.87	0.56
1:r:348:GLY:HA3	1:r:624:MET:HE1	1.86	0.56
1:r:610:LYS:HB2	1:r:632:PRO:HG3	1.87	0.56
1:w:461:TYR:HA	1:x:506:PRO:HD3	1.88	0.56
1:w:610:LYS:HB2	1:w:632:PRO:HG3	1.87	0.56
1:z:610:LYS:HB2	1:z:632:PRO:HG3	1.87	0.56
1:2:279:HIS:HD2	1:2:355:ALA:HA	1.68	0.56
1:6:288:GLN:NE2	1:6:689:TYR:O	2.35	0.56
1:6:348:GLY:HA3	1:6:624:MET:HE1	1.86	0.56
1:6:610:LYS:HB2	1:6:632:PRO:HG3	1.87	0.56
1:A:461:TYR:HA	1:G:506:PRO:HD3	1.87	0.56
1:C:610:LYS:HB2	1:C:632:PRO:HG3	1.87	0.56
1:K:506:PRO:HD3	1:8:461:TYR:HA	1.88	0.56
1:M:382:ARG:HE	1:b:687:ILE:HD12	1.71	0.56
1:O:461:TYR:HA	1:m:506:PRO:HD3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:348:GLY:HA3	1:T:624:MET:HE1	1.86	0.56
1:c:348:GLY:HA3	1:c:624:MET:HE1	1.86	0.56
1:g:610:LYS:HB2	1:g:632:PRO:HG3	1.87	0.56
1:l:348:GLY:HA3	1:l:624:MET:HE1	1.86	0.56
1:n:610:LYS:HB2	1:n:632:PRO:HG3	1.87	0.56
1:o:461:TYR:HA	1:p:506:PRO:HD3	1.87	0.56
1:v:348:GLY:HA3	1:v:624:MET:HE1	1.86	0.56
1:A:687:ILE:HD12	1:G:382:ARG:HE	1.71	0.56
1:B:461:TYR:HA	1:J:506:PRO:HD3	1.88	0.56
1:D:461:TYR:HA	1:N:506:PRO:HD3	1.88	0.56
1:F:415:SER:O	1:F:718:ARG:NH1	2.39	0.56
1:H:348:GLY:HA3	1:H:624:MET:HE1	1.86	0.56
1:I:415:SER:O	1:I:718:ARG:NH1	2.39	0.56
1:L:348:GLY:HA3	1:L:624:MET:HE1	1.86	0.56
1:O:288:GLN:NE2	1:O:689:TYR:O	2.35	0.56
1:T:506:PRO:HD3	1:l:461:TYR:HA	1.88	0.56
1:a:687:ILE:HD12	1:8:382:ARG:HE	1.71	0.56
1:u:415:SER:O	1:u:718:ARG:NH1	2.39	0.56
1:y:415:SER:O	1:y:718:ARG:NH1	2.39	0.56
1:z:348:GLY:HA3	1:z:624:MET:HE1	1.86	0.56
1:5:348:GLY:HA3	1:5:624:MET:HE1	1.86	0.56
1:A:348:GLY:HA3	1:A:624:MET:HE1	1.86	0.56
1:A:415:SER:O	1:A:718:ARG:NH1	2.39	0.56
1:C:415:SER:O	1:C:718:ARG:NH1	2.39	0.56
1:C:461:TYR:HA	1:b:506:PRO:HD3	1.88	0.56
1:G:415:SER:O	1:G:718:ARG:NH1	2.39	0.56
1:Q:348:GLY:HA3	1:Q:624:MET:HE1	1.86	0.56
1:S:415:SER:O	1:S:718:ARG:NH1	2.39	0.56
1:T:382:ARG:HE	1:l:687:ILE:HD12	1.71	0.56
1:T:415:SER:O	1:T:718:ARG:NH1	2.39	0.56
1:V:506:PRO:HD3	1:X:461:TYR:HA	1.88	0.56
1:Z:348:GLY:HA3	1:Z:624:MET:HE1	1.86	0.56
1:f:506:PRO:HD3	1:g:461:TYR:HA	1.88	0.56
1:g:415:SER:O	1:g:718:ARG:NH1	2.39	0.56
1:h:415:SER:O	1:h:718:ARG:NH1	2.39	0.56
1:j:699:VAL:HG23	1:j:702:ALA:HB3	1.88	0.56
1:m:415:SER:O	1:m:718:ARG:NH1	2.39	0.56
1:r:415:SER:O	1:r:718:ARG:NH1	2.39	0.56
1:t:382:ARG:HE	1:v:687:ILE:HD12	1.71	0.56
1:t:415:SER:O	1:t:718:ARG:NH1	2.39	0.56
1:v:415:SER:O	1:v:718:ARG:NH1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:506:PRO:HD3	1:y:461:TYR:HA	1.88	0.56
1:l:461:TYR:HA	1:2:506:PRO:HD3	1.88	0.56
1:A:382:ARG:HE	1:I:687:ILE:HD12	1.71	0.56
1:B:415:SER:O	1:B:718:ARG:NH1	2.39	0.56
1:E:506:PRO:HD3	1:F:461:TYR:HA	1.88	0.56
1:J:610:LYS:HB2	1:J:632:PRO:HG3	1.87	0.56
1:K:415:SER:O	1:K:718:ARG:NH1	2.39	0.56
1:L:699:VAL:HG23	1:L:702:ALA:HB3	1.88	0.56
1:M:415:SER:O	1:M:718:ARG:NH1	2.39	0.56
1:M:480:GLY:O	1:M:481:VAL:HG12	2.06	0.56
1:N:687:ILE:HD12	1:P:382:ARG:HE	1.71	0.56
1:O:687:ILE:HD12	1:m:382:ARG:HE	1.71	0.56
1:P:480:GLY:O	1:P:481:VAL:HG12	2.06	0.56
1:P:699:VAL:HG23	1:P:702:ALA:HB3	1.88	0.56
1:R:699:VAL:HG23	1:R:702:ALA:HB3	1.88	0.56
1:Z:382:ARG:HE	1:3:687:ILE:HD12	1.71	0.56
1:a:415:SER:O	1:a:718:ARG:NH1	2.39	0.56
1:c:415:SER:O	1:c:718:ARG:NH1	2.39	0.56
1:e:415:SER:O	1:e:718:ARG:NH1	2.39	0.56
1:e:480:GLY:O	1:e:481:VAL:HG12	2.06	0.56
1:h:610:LYS:HB2	1:h:632:PRO:HG3	1.87	0.56
1:i:506:PRO:HD3	1:k:461:TYR:HA	1.88	0.56
1:j:480:GLY:O	1:j:481:VAL:HG12	2.06	0.56
1:l:288:GLN:NE2	1:l:689:TYR:O	2.35	0.56
1:o:610:LYS:HB2	1:o:632:PRO:HG3	1.87	0.56
1:o:699:VAL:HG23	1:o:702:ALA:HB3	1.88	0.56
1:t:461:TYR:HA	1:u:506:PRO:HD3	1.88	0.56
1:t:506:PRO:HD3	1:v:461:TYR:HA	1.88	0.56
1:x:348:GLY:HA3	1:x:624:MET:HE1	1.86	0.56
1:l:415:SER:O	1:l:718:ARG:NH1	2.39	0.56
1:8:348:GLY:HA3	1:8:624:MET:HE1	1.86	0.56
1:G:461:TYR:HA	1:I:506:PRO:HD3	1.88	0.56
1:G:480:GLY:O	1:G:481:VAL:HG12	2.06	0.56
1:G:699:VAL:HG23	1:G:702:ALA:HB3	1.88	0.56
1:H:382:ARG:HE	1:Y:687:ILE:HD12	1.69	0.56
1:X:610:LYS:HB2	1:X:632:PRO:HG3	1.87	0.56
1:Y:480:GLY:O	1:Y:481:VAL:HG12	2.06	0.56
1:c:480:GLY:O	1:c:481:VAL:HG12	2.06	0.56
1:d:687:ILE:HD12	1:l:382:ARG:HE	1.71	0.56
1:d:699:VAL:HG23	1:d:702:ALA:HB3	1.88	0.56
1:f:415:SER:O	1:f:718:ARG:NH1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:480:GLY:O	1:h:481:VAL:HG12	2.06	0.56
1:k:415:SER:O	1:k:718:ARG:NH1	2.39	0.56
1:n:699:VAL:HG23	1:n:702:ALA:HB3	1.88	0.56
1:q:699:VAL:HG23	1:q:702:ALA:HB3	1.88	0.56
1:t:480:GLY:O	1:t:481:VAL:HG12	2.06	0.56
1:u:687:ILE:HD12	1:v:382:ARG:HE	1.71	0.56
1:z:699:VAL:HG23	1:z:702:ALA:HB3	1.88	0.56
1:2:610:LYS:HB2	1:2:632:PRO:HG3	1.87	0.56
1:3:382:ARG:HE	1:4:687:ILE:HD12	1.71	0.56
1:3:415:SER:O	1:3:718:ARG:NH1	2.39	0.56
1:4:415:SER:O	1:4:718:ARG:NH1	2.39	0.56
1:5:687:ILE:HD12	1:6:382:ARG:HE	1.71	0.56
1:7:480:GLY:O	1:7:481:VAL:HG12	2.06	0.56
1:D:415:SER:O	1:D:718:ARG:NH1	2.39	0.56
1:K:461:TYR:HA	1:a:506:PRO:HD3	1.88	0.56
1:K:687:ILE:HD12	1:a:382:ARG:HE	1.71	0.56
1:N:610:LYS:HB2	1:N:632:PRO:HG3	1.87	0.56
1:O:382:ARG:HE	1:n:687:ILE:HD12	1.71	0.56
1:Q:699:VAL:HG23	1:Q:702:ALA:HB3	1.88	0.56
1:X:699:VAL:HG23	1:X:702:ALA:HB3	1.88	0.56
1:Z:415:SER:O	1:Z:718:ARG:NH1	2.39	0.56
1:Z:480:GLY:O	1:Z:481:VAL:HG12	2.06	0.56
1:b:415:SER:O	1:b:718:ARG:NH1	2.39	0.56
1:b:699:VAL:HG23	1:b:702:ALA:HB3	1.88	0.56
1:f:699:VAL:HG23	1:f:702:ALA:HB3	1.88	0.56
1:i:610:LYS:HB2	1:i:632:PRO:HG3	1.87	0.56
1:n:415:SER:O	1:n:718:ARG:NH1	2.39	0.56
1:t:699:VAL:HG23	1:t:702:ALA:HB3	1.88	0.56
1:3:506:PRO:HD3	1:4:461:TYR:HA	1.88	0.56
1:B:506:PRO:HD3	1:L:461:TYR:HA	1.88	0.56
1:E:687:ILE:HD12	1:Q:382:ARG:HE	1.71	0.56
1:H:415:SER:O	1:H:718:ARG:NH1	2.39	0.56
1:J:699:VAL:HG23	1:J:702:ALA:HB3	1.88	0.56
1:L:288:GLN:NE2	1:L:689:TYR:O	2.35	0.56
1:M:610:LYS:HB2	1:M:632:PRO:HG3	1.87	0.56
1:U:480:GLY:O	1:U:481:VAL:HG12	2.06	0.56
1:d:415:SER:O	1:d:718:ARG:NH1	2.39	0.56
1:e:610:LYS:HB2	1:e:632:PRO:HG3	1.87	0.56
1:i:687:ILE:HD12	1:j:382:ARG:HE	1.71	0.56
1:p:348:GLY:HA3	1:p:624:MET:HE1	1.86	0.56
1:q:382:ARG:HE	1:s:687:ILE:HD12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:288:GLN:NE2	1:t:689:TYR:O	2.35	0.56
1:w:687:ILE:HD12	1:x:382:ARG:HE	1.71	0.56
1:x:699:VAL:HG23	1:x:702:ALA:HB3	1.88	0.56
1:z:461:TYR:HA	1:1:506:PRO:HD3	1.88	0.56
1:z:687:ILE:HD12	1:1:382:ARG:HE	1.71	0.56
1:5:415:SER:O	1:5:718:ARG:NH1	2.39	0.56
1:5:480:GLY:O	1:5:481:VAL:HG12	2.06	0.56
1:8:480:GLY:O	1:8:481:VAL:HG12	2.06	0.56
1:B:699:VAL:HG23	1:B:702:ALA:HB3	1.88	0.55
1:C:699:VAL:HG23	1:C:702:ALA:HB3	1.88	0.55
1:J:415:SER:O	1:J:718:ARG:NH1	2.39	0.55
1:J:687:ILE:HD12	1:L:382:ARG:HE	1.71	0.55
1:N:480:GLY:O	1:N:481:VAL:HG12	2.06	0.55
1:R:382:ARG:HE	1:U:687:ILE:HD12	1.71	0.55
1:S:480:GLY:O	1:S:481:VAL:HG12	2.06	0.55
1:S:699:VAL:HG23	1:S:702:ALA:HB3	1.88	0.55
1:W:480:GLY:O	1:W:481:VAL:HG12	2.06	0.55
1:c:610:LYS:HB2	1:c:632:PRO:HG3	1.87	0.55
1:g:699:VAL:HG23	1:g:702:ALA:HB3	1.88	0.55
1:i:480:GLY:O	1:i:481:VAL:HG12	2.06	0.55
1:r:699:VAL:HG23	1:r:702:ALA:HB3	1.88	0.55
1:s:480:GLY:O	1:s:481:VAL:HG12	2.06	0.55
1:v:328:THR:O	1:v:397:ARG:NE	2.23	0.55
1:w:415:SER:O	1:w:718:ARG:NH1	2.39	0.55
1:w:699:VAL:HG23	1:w:702:ALA:HB3	1.88	0.55
1:z:382:ARG:HE	1:2:687:ILE:HD12	1.71	0.55
1:1:699:VAL:HG23	1:1:702:ALA:HB3	1.88	0.55
1:2:415:SER:O	1:2:718:ARG:NH1	2.39	0.55
1:2:699:VAL:HG23	1:2:702:ALA:HB3	1.88	0.55
1:5:506:PRO:HD3	1:7:461:TYR:HA	1.88	0.55
1:7:699:VAL:HG23	1:7:702:ALA:HB3	1.88	0.55
1:8:415:SER:O	1:8:718:ARG:NH1	2.39	0.55
1:B:382:ARG:HE	1:L:687:ILE:HD12	1.71	0.55
1:C:480:GLY:O	1:C:481:VAL:HG12	2.06	0.55
1:E:480:GLY:O	1:E:481:VAL:HG12	2.06	0.55
1:G:288:GLN:NE2	1:G:689:TYR:O	2.35	0.55
1:H:480:GLY:O	1:H:481:VAL:HG12	2.06	0.55
1:R:461:TYR:HA	1:S:506:PRO:HD3	1.88	0.55
1:R:687:ILE:HD12	1:S:382:ARG:HE	1.71	0.55
1:V:348:GLY:HA3	1:V:624:MET:HE1	1.86	0.55
1:Z:687:ILE:HD12	1:4:382:ARG:HE	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:348:GLY:HA3	1:a:624:MET:HE1	1.86	0.55
1:a:480:GLY:O	1:a:481:VAL:HG12	2.06	0.55
1:g:480:GLY:O	1:g:481:VAL:HG12	2.06	0.55
1:p:415:SER:O	1:p:718:ARG:NH1	2.39	0.55
1:r:480:GLY:O	1:r:481:VAL:HG12	2.06	0.55
1:u:348:GLY:HA3	1:u:624:MET:HE1	1.86	0.55
1:z:415:SER:O	1:z:718:ARG:NH1	2.39	0.55
1:3:480:GLY:O	1:3:481:VAL:HG12	2.06	0.55
1:6:480:GLY:O	1:6:481:VAL:HG12	2.06	0.55
1:D:421:GLN:HE22	1:N:342:PRO:HB3	1.72	0.55
1:E:415:SER:O	1:E:718:ARG:NH1	2.39	0.55
1:E:699:VAL:HG23	1:E:702:ALA:HB3	1.88	0.55
1:F:480:GLY:O	1:F:481:VAL:HG12	2.06	0.55
1:H:342:PRO:HB3	1:Y:421:GLN:HE22	1.72	0.55
1:L:415:SER:O	1:L:718:ARG:NH1	2.39	0.55
1:N:415:SER:O	1:N:718:ARG:NH1	2.39	0.55
1:T:288:GLN:NE2	1:T:689:TYR:O	2.35	0.55
1:V:415:SER:O	1:V:718:ARG:NH1	2.39	0.55
1:X:415:SER:O	1:X:718:ARG:NH1	2.39	0.55
1:Y:415:SER:O	1:Y:718:ARG:NH1	2.39	0.55
1:Y:699:VAL:HG23	1:Y:702:ALA:HB3	1.88	0.55
1:i:415:SER:O	1:i:718:ARG:NH1	2.39	0.55
1:q:461:TYR:HA	1:r:506:PRO:HD3	1.88	0.55
1:z:288:GLN:NE2	1:z:689:TYR:O	2.35	0.55
1:5:342:PRO:HB3	1:7:421:GLN:HE22	1.72	0.55
1:6:699:VAL:HG23	1:6:702:ALA:HB3	1.88	0.55
1:D:215:SER:HB2	1:D:307:PHE:HB2	1.89	0.55
1:I:348:GLY:HA3	1:I:624:MET:HE1	1.86	0.55
1:S:461:TYR:HA	1:U:506:PRO:HD3	1.88	0.55
1:T:687:ILE:HD12	1:d:382:ARG:HE	1.71	0.55
1:V:480:GLY:O	1:V:481:VAL:HG12	2.06	0.55
1:W:699:VAL:HG23	1:W:702:ALA:HB3	1.88	0.55
1:d:480:GLY:O	1:d:481:VAL:HG12	2.06	0.55
1:k:215:SER:HB2	1:k:307:PHE:HB2	1.89	0.55
1:m:288:GLN:NE2	1:m:689:TYR:O	2.35	0.55
1:o:415:SER:O	1:o:718:ARG:NH1	2.39	0.55
1:p:480:GLY:O	1:p:481:VAL:HG12	2.06	0.55
1:p:699:VAL:HG23	1:p:702:ALA:HB3	1.88	0.55
1:q:687:ILE:HD12	1:r:382:ARG:HE	1.71	0.55
1:r:461:TYR:HA	1:s:506:PRO:HD3	1.88	0.55
1:v:480:GLY:O	1:v:481:VAL:HG12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:480:GLY:O	1:w:481:VAL:HG12	2.06	0.55
1:3:348:GLY:HA3	1:3:624:MET:HE1	1.86	0.55
1:B:687:ILE:HD12	1:J:382:ARG:HE	1.71	0.55
1:G:215:SER:HB2	1:G:307:PHE:HB2	1.89	0.55
1:K:382:ARG:HE	1:8:687:ILE:HD12	1.71	0.55
1:O:415:SER:O	1:O:718:ARG:NH1	2.39	0.55
1:V:699:VAL:HG23	1:V:702:ALA:HB3	1.88	0.55
1:W:215:SER:HB2	1:W:307:PHE:HB2	1.89	0.55
1:a:610:LYS:HB2	1:a:632:PRO:HG3	1.87	0.55
1:f:461:TYR:HA	1:h:506:PRO:HD3	1.88	0.55
1:g:382:ARG:HE	1:h:687:ILE:HD12	1.71	0.55
1:n:480:GLY:O	1:n:481:VAL:HG12	2.06	0.55
1:q:415:SER:O	1:q:718:ARG:NH1	2.39	0.55
1:t:215:SER:HB2	1:t:307:PHE:HB2	1.89	0.55
1:y:480:GLY:O	1:y:481:VAL:HG12	2.06	0.55
1:5:461:TYR:HA	1:6:506:PRO:HD3	1.88	0.55
1:6:215:SER:HB2	1:6:307:PHE:HB2	1.89	0.55
1:7:415:SER:O	1:7:718:ARG:NH1	2.39	0.55
1:A:480:GLY:O	1:A:481:VAL:HG12	2.06	0.55
1:A:506:PRO:HD3	1:I:461:TYR:HA	1.88	0.55
1:G:610:LYS:HB2	1:G:632:PRO:HG3	1.87	0.55
1:I:215:SER:HB2	1:I:307:PHE:HB2	1.89	0.55
1:I:610:LYS:HB2	1:I:632:PRO:HG3	1.87	0.55
1:M:506:PRO:HD3	1:b:461:TYR:HA	1.88	0.55
1:N:699:VAL:HG23	1:N:702:ALA:HB3	1.88	0.55
1:P:610:LYS:HB2	1:P:632:PRO:HG3	1.87	0.55
1:Q:215:SER:HB2	1:Q:307:PHE:HB2	1.89	0.55
1:R:415:SER:O	1:R:718:ARG:NH1	2.39	0.55
1:S:215:SER:HB2	1:S:307:PHE:HB2	1.89	0.55
1:U:415:SER:O	1:U:718:ARG:NH1	2.39	0.55
1:X:328:THR:O	1:X:397:ARG:NE	2.23	0.55
1:c:687:ILE:HD12	1:o:382:ARG:HE	1.71	0.55
1:i:342:PRO:HB3	1:k:421:GLN:HE22	1.72	0.55
1:j:415:SER:O	1:j:718:ARG:NH1	2.39	0.55
1:j:610:LYS:HB2	1:j:632:PRO:HG3	1.87	0.55
1:l:415:SER:O	1:l:718:ARG:NH1	2.39	0.55
1:m:687:ILE:HD12	1:n:382:ARG:HE	1.71	0.55
1:s:415:SER:O	1:s:718:ARG:NH1	2.39	0.55
1:u:215:SER:HB2	1:u:307:PHE:HB2	1.89	0.55
1:u:610:LYS:HB2	1:u:632:PRO:HG3	1.87	0.55
1:x:687:ILE:HD12	1:y:382:ARG:HE	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:215:SER:HB2	1:3:307:PHE:HB2	1.89	0.55
1:3:610:LYS:HB2	1:3:632:PRO:HG3	1.87	0.55
1:A:215:SER:HB2	1:A:307:PHE:HB2	1.89	0.55
1:A:699:VAL:HG23	1:A:702:ALA:HB3	1.88	0.55
1:C:382:ARG:HE	1:M:687:ILE:HD12	1.71	0.55
1:D:610:LYS:HB2	1:D:632:PRO:HG3	1.87	0.55
1:E:215:SER:HB2	1:E:307:PHE:HB2	1.89	0.55
1:F:382:ARG:HE	1:Q:687:ILE:HD12	1.71	0.55
1:F:506:PRO:HD3	1:Q:461:TYR:HA	1.88	0.55
1:I:480:GLY:O	1:I:481:VAL:HG12	2.06	0.55
1:L:480:GLY:O	1:L:481:VAL:HG12	2.06	0.55
1:O:480:GLY:O	1:O:481:VAL:HG12	2.06	0.55
1:O:506:PRO:HD3	1:n:461:TYR:HA	1.88	0.55
1:O:699:VAL:HG23	1:O:702:ALA:HB3	1.88	0.55
1:P:415:SER:O	1:P:718:ARG:NH1	2.39	0.55
1:Z:699:VAL:HG23	1:Z:702:ALA:HB3	1.88	0.55
1:a:215:SER:HB2	1:a:307:PHE:HB2	1.89	0.55
1:i:699:VAL:HG23	1:i:702:ALA:HB3	1.88	0.55
1:k:610:LYS:HB2	1:k:632:PRO:HG3	1.87	0.55
1:o:687:ILE:HD12	1:p:382:ARG:HE	1.71	0.55
1:q:215:SER:HB2	1:q:307:PHE:HB2	1.89	0.55
1:r:215:SER:HB2	1:r:307:PHE:HB2	1.89	0.55
1:t:610:LYS:HB2	1:t:632:PRO:HG3	1.87	0.55
1:u:461:TYR:HA	1:v:506:PRO:HD3	1.88	0.55
1:w:215:SER:HB2	1:w:307:PHE:HB2	1.89	0.55
1:x:215:SER:HB2	1:x:307:PHE:HB2	1.89	0.55
1:1:215:SER:HB2	1:1:307:PHE:HB2	1.89	0.55
1:1:687:ILE:HD12	1:2:382:ARG:HE	1.71	0.55
1:4:699:VAL:HG23	1:4:702:ALA:HB3	1.88	0.55
1:B:215:SER:HB2	1:B:307:PHE:HB2	1.89	0.55
1:D:687:ILE:HD12	1:N:382:ARG:HE	1.72	0.55
1:F:292:ASN:ND2	1:F:689:TYR:H	2.05	0.55
1:H:435:LEU:HD11	1:W:624:MET:HE3	1.88	0.55
1:K:699:VAL:HG23	1:K:702:ALA:HB3	1.88	0.55
1:Q:415:SER:O	1:Q:718:ARG:NH1	2.39	0.55
1:R:215:SER:HB2	1:R:307:PHE:HB2	1.89	0.55
1:V:382:ARG:HE	1:X:687:ILE:HD12	1.71	0.55
1:W:415:SER:O	1:W:718:ARG:NH1	2.39	0.55
1:d:461:TYR:HA	1:l:506:PRO:HD3	1.87	0.55
1:l:480:GLY:O	1:l:481:VAL:HG12	2.06	0.55
1:l:699:VAL:HG23	1:l:702:ALA:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:480:GLY:O	1:u:481:VAL:HG12	2.06	0.55
1:v:215:SER:HB2	1:v:307:PHE:HB2	1.89	0.55
1:v:228:ARG:NH1	1:v:672:GLU:OE2	2.35	0.55
1:v:699:VAL:HG23	1:v:702:ALA:HB3	1.88	0.55
1:x:415:SER:O	1:x:718:ARG:NH1	2.39	0.55
1:3:699:VAL:HG23	1:3:702:ALA:HB3	1.88	0.55
1:6:415:SER:O	1:6:718:ARG:NH1	2.39	0.55
1:8:699:VAL:HG23	1:8:702:ALA:HB3	1.88	0.55
1:C:458:ALA:H	1:b:261:ASN:ND2	2.05	0.55
1:C:506:PRO:HD3	1:M:461:TYR:HA	1.88	0.55
1:I:699:VAL:HG23	1:I:702:ALA:HB3	1.88	0.55
1:W:421:GLN:HE22	1:Y:342:PRO:HB3	1.72	0.55
1:W:461:TYR:HA	1:Y:506:PRO:HD3	1.88	0.55
1:X:382:ARG:HE	1:e:687:ILE:HD12	1.71	0.55
1:a:699:VAL:HG23	1:a:702:ALA:HB3	1.88	0.55
1:c:461:TYR:HA	1:o:506:PRO:HD3	1.88	0.55
1:g:506:PRO:HD3	1:h:461:TYR:HA	1.87	0.55
1:i:382:ARG:HE	1:k:687:ILE:HD12	1.72	0.55
1:u:699:VAL:HG23	1:u:702:ALA:HB3	1.88	0.55
1:x:461:TYR:HA	1:y:506:PRO:HD3	1.88	0.55
1:y:292:ASN:ND2	1:y:689:TYR:H	2.05	0.55
1:z:480:GLY:O	1:z:481:VAL:HG12	2.06	0.55
1:z:506:PRO:HD3	1:2:461:TYR:HA	1.88	0.55
1:6:421:GLN:HE22	1:7:342:PRO:HB3	1.72	0.55
1:U:699:VAL:HG23	1:U:702:ALA:HB3	1.88	0.55
1:V:215:SER:HB2	1:V:307:PHE:HB2	1.89	0.55
1:X:506:PRO:HD3	1:e:461:TYR:HA	1.88	0.55
1:c:699:VAL:HG23	1:c:702:ALA:HB3	1.88	0.55
1:d:215:SER:HB2	1:d:307:PHE:HB2	1.89	0.55
1:e:699:VAL:HG23	1:e:702:ALA:HB3	1.88	0.55
1:f:261:ASN:ND2	1:g:458:ALA:H	2.05	0.55
1:i:458:ALA:H	1:j:261:ASN:ND2	2.04	0.55
1:k:480:GLY:O	1:k:481:VAL:HG12	2.06	0.55
1:o:480:GLY:O	1:o:481:VAL:HG12	2.06	0.55
1:q:480:GLY:O	1:q:481:VAL:HG12	2.06	0.55
1:s:699:VAL:HG23	1:s:702:ALA:HB3	1.88	0.55
1:t:687:ILE:HD12	1:u:382:ARG:HE	1.71	0.55
1:6:461:TYR:HA	1:7:506:PRO:HD3	1.88	0.55
1:A:228:ARG:NH1	1:A:672:GLU:OE2	2.35	0.54
1:D:480:GLY:O	1:D:481:VAL:HG12	2.06	0.54
1:J:292:ASN:ND2	1:J:689:TYR:H	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:461:TYR:HA	1:L:506:PRO:HD3	1.88	0.54
1:K:228:ARG:NH1	1:K:672:GLU:OE2	2.35	0.54
1:N:421:GLN:HE22	1:P:342:PRO:HB3	1.72	0.54
1:O:441:THR:HG23	1:O:446:GLY:O	2.07	0.54
1:Q:328:THR:O	1:Q:397:ARG:NE	2.23	0.54
1:R:480:GLY:O	1:R:481:VAL:HG12	2.06	0.54
1:U:215:SER:HB2	1:U:307:PHE:HB2	1.89	0.54
1:U:610:LYS:HB2	1:U:632:PRO:HG3	1.87	0.54
1:c:342:PRO:HB3	1:p:421:GLN:HE22	1.72	0.54
1:e:441:THR:HG23	1:e:446:GLY:O	2.08	0.54
1:k:441:THR:HG23	1:k:446:GLY:O	2.08	0.54
1:l:441:THR:HG23	1:l:446:GLY:O	2.08	0.54
1:n:215:SER:HB2	1:n:307:PHE:HB2	1.89	0.54
1:o:328:THR:O	1:o:397:ARG:NE	2.23	0.54
1:p:215:SER:HB2	1:p:307:PHE:HB2	1.89	0.54
1:s:215:SER:HB2	1:s:307:PHE:HB2	1.89	0.54
1:s:610:LYS:HB2	1:s:632:PRO:HG3	1.87	0.54
1:w:261:ASN:ND2	1:y:458:ALA:H	2.05	0.54
1:1:441:THR:HG23	1:1:446:GLY:O	2.08	0.54
1:2:292:ASN:ND2	1:2:689:TYR:H	2.05	0.54
1:5:699:VAL:HG23	1:5:702:ALA:HB3	1.88	0.54
1:8:441:THR:HG23	1:8:446:GLY:O	2.08	0.54
1:D:441:THR:HG23	1:D:446:GLY:O	2.08	0.54
1:E:261:ASN:ND2	1:F:458:ALA:H	2.05	0.54
1:F:261:ASN:ND2	1:Q:458:ALA:H	2.05	0.54
1:F:699:VAL:HG23	1:F:702:ALA:HB3	1.88	0.54
1:G:687:ILE:HD12	1:I:382:ARG:HE	1.71	0.54
1:H:328:THR:O	1:H:397:ARG:NE	2.23	0.54
1:H:441:THR:HG23	1:H:446:GLY:O	2.08	0.54
1:J:421:GLN:HE22	1:L:342:PRO:HB3	1.72	0.54
1:M:261:ASN:ND2	1:b:458:ALA:H	2.05	0.54
1:N:441:THR:HG23	1:N:446:GLY:O	2.08	0.54
1:O:215:SER:HB2	1:O:307:PHE:HB2	1.89	0.54
1:Q:480:GLY:O	1:Q:481:VAL:HG12	2.06	0.54
1:R:506:PRO:HD3	1:U:461:TYR:HA	1.88	0.54
1:T:261:ASN:ND2	1:l:458:ALA:H	2.06	0.54
1:V:421:GLN:HE22	1:c:342:PRO:HB3	1.72	0.54
1:X:480:GLY:O	1:X:481:VAL:HG12	2.06	0.54
1:Z:441:THR:HG23	1:Z:446:GLY:O	2.08	0.54
1:Z:458:ALA:H	1:4:261:ASN:ND2	2.06	0.54
1:d:441:THR:HG23	1:d:446:GLY:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:382:ARG:HE	1:g:687:ILE:HD12	1.71	0.54
1:l:215:SER:HB2	1:l:307:PHE:HB2	1.89	0.54
1:w:382:ARG:HE	1:y:687:ILE:HD12	1.71	0.54
1:x:458:ALA:H	1:y:261:ASN:ND2	2.05	0.54
1:y:699:VAL:HG23	1:y:702:ALA:HB3	1.88	0.54
1:z:261:ASN:ND2	1:2:458:ALA:H	2.05	0.54
1:4:228:ARG:NH1	1:4:672:GLU:OE2	2.35	0.54
1:5:215:SER:HB2	1:5:307:PHE:HB2	1.89	0.54
1:B:261:ASN:ND2	1:L:458:ALA:H	2.05	0.54
1:B:441:THR:HG23	1:B:446:GLY:O	2.08	0.54
1:C:687:ILE:HD12	1:b:382:ARG:HE	1.71	0.54
1:E:441:THR:HG23	1:E:446:GLY:O	2.08	0.54
1:H:215:SER:HB2	1:H:307:PHE:HB2	1.89	0.54
1:H:699:VAL:HG23	1:H:702:ALA:HB3	1.88	0.54
1:J:458:ALA:H	1:L:261:ASN:ND2	2.06	0.54
1:K:261:ASN:ND2	1:8:458:ALA:H	2.06	0.54
1:N:292:ASN:ND2	1:N:689:TYR:H	2.05	0.54
1:O:458:ALA:H	1:m:261:ASN:ND2	2.06	0.54
1:c:441:THR:HG23	1:c:446:GLY:O	2.08	0.54
1:f:458:ALA:H	1:h:261:ASN:ND2	2.06	0.54
1:g:292:ASN:ND2	1:g:689:TYR:H	2.05	0.54
1:h:441:THR:HG23	1:h:446:GLY:O	2.08	0.54
1:h:699:VAL:HG23	1:h:702:ALA:HB3	1.88	0.54
1:i:261:ASN:ND2	1:k:458:ALA:H	2.06	0.54
1:i:441:THR:HG23	1:i:446:GLY:O	2.08	0.54
1:j:687:ILE:HD12	1:k:382:ARG:HE	1.71	0.54
1:n:441:THR:HG23	1:n:446:GLY:O	2.08	0.54
1:o:421:GLN:HE22	1:p:342:PRO:HB3	1.72	0.54
1:q:506:PRO:HD3	1:s:461:TYR:HA	1.88	0.54
1:r:687:ILE:HD12	1:s:382:ARG:HE	1.71	0.54
1:w:441:THR:HG23	1:w:446:GLY:O	2.08	0.54
1:z:458:ALA:H	1:1:261:ASN:ND2	2.06	0.54
1:8:215:SER:HB2	1:8:307:PHE:HB2	1.89	0.54
1:A:441:THR:HG23	1:A:446:GLY:O	2.08	0.54
1:B:292:ASN:ND2	1:B:689:TYR:H	2.05	0.54
1:C:292:ASN:ND2	1:C:689:TYR:H	2.05	0.54
1:D:382:ARG:HE	1:P:687:ILE:HD12	1.71	0.54
1:E:382:ARG:HE	1:F:687:ILE:HD12	1.71	0.54
1:K:441:THR:HG23	1:K:446:GLY:O	2.08	0.54
1:N:458:ALA:H	1:P:261:ASN:ND2	2.05	0.54
1:N:461:TYR:HA	1:P:506:PRO:HD3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:421:GLN:HE22	1:U:342:PRO:HB3	1.72	0.54
1:S:687:ILE:HD12	1:U:382:ARG:HE	1.71	0.54
1:V:687:ILE:HD12	1:e:382:ARG:HE	1.71	0.54
1:X:261:ASN:ND2	1:e:458:ALA:H	2.05	0.54
1:Z:215:SER:HB2	1:Z:307:PHE:HB2	1.89	0.54
1:b:441:THR:HG23	1:b:446:GLY:O	2.08	0.54
1:c:382:ARG:HE	1:p:687:ILE:HD12	1.71	0.54
1:c:458:ALA:H	1:o:261:ASN:ND2	2.06	0.54
1:e:292:ASN:ND2	1:e:689:TYR:H	2.05	0.54
1:i:292:ASN:ND2	1:i:689:TYR:H	2.05	0.54
1:i:421:GLN:HE22	1:j:342:PRO:HB3	1.73	0.54
1:q:421:GLN:HE22	1:r:342:PRO:HB3	1.72	0.54
1:v:441:THR:HG23	1:v:446:GLY:O	2.07	0.54
1:z:342:PRO:HB3	1:2:421:GLN:HE22	1.72	0.54
1:1:292:ASN:ND2	1:1:689:TYR:H	2.05	0.54
1:2:480:GLY:O	1:2:481:VAL:HG12	2.06	0.54
1:4:441:THR:HG23	1:4:446:GLY:O	2.08	0.54
1:4:480:GLY:O	1:4:481:VAL:HG12	2.06	0.54
1:5:292:ASN:ND2	1:5:689:TYR:H	2.05	0.54
1:5:458:ALA:H	1:6:261:ASN:ND2	2.05	0.54
1:6:687:ILE:HD12	1:7:382:ARG:HE	1.71	0.54
1:B:342:PRO:HB3	1:L:421:GLN:HE22	1.72	0.54
1:B:480:GLY:O	1:B:481:VAL:HG12	2.06	0.54
1:J:441:THR:HG23	1:J:446:GLY:O	2.08	0.54
1:J:480:GLY:O	1:J:481:VAL:HG12	2.06	0.54
1:M:441:THR:HG23	1:M:446:GLY:O	2.08	0.54
1:T:441:THR:HG23	1:T:446:GLY:O	2.08	0.54
1:T:480:GLY:O	1:T:481:VAL:HG12	2.06	0.54
1:V:342:PRO:HB3	1:X:421:GLN:HE22	1.72	0.54
1:Y:215:SER:HB2	1:Y:307:PHE:HB2	1.89	0.54
1:k:288:GLN:NE2	1:k:689:TYR:O	2.35	0.54
1:r:421:GLN:HE22	1:s:342:PRO:HB3	1.72	0.54
1:w:342:PRO:HB3	1:y:421:GLN:HE22	1.72	0.54
1:x:480:GLY:O	1:x:481:VAL:HG12	2.06	0.54
1:3:441:THR:HG23	1:3:446:GLY:O	2.08	0.54
1:5:441:THR:HG23	1:5:446:GLY:O	2.08	0.54
1:7:215:SER:HB2	1:7:307:PHE:HB2	1.89	0.54
1:D:458:ALA:H	1:N:261:ASN:ND2	2.06	0.54
1:E:342:PRO:HB3	1:F:421:GLN:HE22	1.72	0.54
1:F:342:PRO:HB3	1:Q:421:GLN:HE22	1.72	0.54
1:H:292:ASN:ND2	1:H:689:TYR:H	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:421:GLN:HE22	1:W:342:PRO:HB3	1.72	0.54
1:J:215:SER:HB2	1:J:307:PHE:HB2	1.89	0.54
1:K:480:GLY:O	1:K:481:VAL:HG12	2.06	0.54
1:L:215:SER:HB2	1:L:307:PHE:HB2	1.89	0.54
1:N:215:SER:HB2	1:N:307:PHE:HB2	1.89	0.54
1:R:421:GLN:HE22	1:S:342:PRO:HB3	1.72	0.54
1:R:435:LEU:HD11	1:S:624:MET:HE3	1.90	0.54
1:S:441:THR:HG23	1:S:446:GLY:O	2.08	0.54
1:V:288:GLN:NE2	1:V:689:TYR:O	2.35	0.54
1:c:292:ASN:ND2	1:c:689:TYR:H	2.05	0.54
1:d:458:ALA:H	1:l:261:ASN:ND2	2.06	0.54
1:f:288:GLN:NE2	1:f:689:TYR:O	2.35	0.54
1:f:441:THR:HG23	1:f:446:GLY:O	2.08	0.54
1:g:624:MET:HE3	1:h:435:LEU:HD11	1.90	0.54
1:m:480:GLY:O	1:m:481:VAL:HG12	2.06	0.54
1:q:435:LEU:HD11	1:r:624:MET:HE3	1.90	0.54
1:r:441:THR:HG23	1:r:446:GLY:O	2.08	0.54
1:t:342:PRO:HB3	1:v:421:GLN:HE22	1.72	0.54
1:x:421:GLN:HE22	1:y:342:PRO:HB3	1.72	0.54
1:z:215:SER:HB2	1:z:307:PHE:HB2	1.89	0.54
1:1:435:LEU:HD11	1:2:624:MET:HE3	1.90	0.54
1:1:480:GLY:O	1:1:481:VAL:HG12	2.06	0.54
1:2:288:GLN:NE2	1:2:689:TYR:O	2.35	0.54
1:2:441:THR:HG23	1:2:446:GLY:O	2.08	0.54
1:5:421:GLN:HE22	1:6:342:PRO:HB3	1.72	0.54
1:B:421:GLN:HE22	1:J:342:PRO:HB3	1.72	0.54
1:B:458:ALA:H	1:J:261:ASN:ND2	2.06	0.54
1:C:261:ASN:ND2	1:M:458:ALA:H	2.06	0.54
1:C:624:MET:HE3	1:M:435:LEU:HD11	1.90	0.54
1:D:288:GLN:NE2	1:D:689:TYR:O	2.35	0.54
1:F:441:THR:HG23	1:F:446:GLY:O	2.08	0.54
1:H:390:TYR:OH	1:Z:286:ASP:OD2	2.26	0.54
1:M:699:VAL:HG23	1:M:702:ALA:HB3	1.88	0.54
1:O:261:ASN:ND2	1:n:458:ALA:H	2.06	0.54
1:P:441:THR:HG23	1:P:446:GLY:O	2.08	0.54
1:R:624:MET:HE3	1:U:435:LEU:HD11	1.90	0.54
1:T:421:GLN:HE22	1:d:342:PRO:HB3	1.72	0.54
1:Z:506:PRO:HD3	1:3:461:TYR:HA	1.87	0.54
1:e:215:SER:HB2	1:e:307:PHE:HB2	1.89	0.54
1:g:261:ASN:ND2	1:h:458:ALA:H	2.06	0.54
1:g:342:PRO:HB3	1:h:421:GLN:HE22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:215:SER:HB2	1:h:307:PHE:HB2	1.89	0.54
1:i:215:SER:HB2	1:i:307:PHE:HB2	1.89	0.54
1:i:461:TYR:HA	1:j:506:PRO:HD3	1.88	0.54
1:k:699:VAL:HG23	1:k:702:ALA:HB3	1.88	0.54
1:p:288:GLN:NE2	1:p:689:TYR:O	2.35	0.54
1:q:261:ASN:ND2	1:s:458:ALA:H	2.05	0.54
1:u:292:ASN:ND2	1:u:689:TYR:H	2.05	0.54
1:x:328:THR:O	1:x:397:ARG:NE	2.23	0.54
1:y:441:THR:HG23	1:y:446:GLY:O	2.08	0.54
1:2:215:SER:HB2	1:2:307:PHE:HB2	1.89	0.54
1:5:328:THR:O	1:5:397:ARG:NE	2.23	0.54
1:A:342:PRO:HB3	1:I:421:GLN:HE22	1.72	0.54
1:B:435:LEU:HD11	1:J:624:MET:HE3	1.90	0.54
1:C:435:LEU:HD11	1:b:624:MET:HE3	1.90	0.54
1:D:699:VAL:HG23	1:D:702:ALA:HB3	1.88	0.54
1:M:215:SER:HB2	1:M:307:PHE:HB2	1.89	0.54
1:M:342:PRO:HB3	1:b:421:GLN:HE22	1.73	0.54
1:P:420:SER:HB2	1:P:721:THR:HG22	1.90	0.54
1:R:261:ASN:ND2	1:U:458:ALA:H	2.06	0.54
1:R:342:PRO:HB3	1:U:421:GLN:HE22	1.72	0.54
1:V:458:ALA:H	1:e:261:ASN:ND2	2.05	0.54
1:V:475:TRP:HB2	1:V:523:LEU:HD13	1.90	0.54
1:Z:435:LEU:HD11	1:4:624:MET:HE3	1.90	0.54
1:a:441:THR:HG23	1:a:446:GLY:O	2.08	0.54
1:a:458:ALA:H	1:8:261:ASN:ND2	2.06	0.54
1:c:215:SER:HB2	1:c:307:PHE:HB2	1.89	0.54
1:c:261:ASN:ND2	1:p:458:ALA:H	2.05	0.54
1:f:421:GLN:HE22	1:h:342:PRO:HB3	1.72	0.54
1:f:624:MET:HE3	1:g:435:LEU:HD11	1.90	0.54
1:j:420:SER:HB2	1:j:721:THR:HG22	1.90	0.54
1:j:421:GLN:HE22	1:k:342:PRO:HB3	1.72	0.54
1:j:441:THR:HG23	1:j:446:GLY:O	2.08	0.54
1:m:421:GLN:HE22	1:n:342:PRO:HB3	1.72	0.54
1:m:441:THR:HG23	1:m:446:GLY:O	2.08	0.54
1:p:475:TRP:HB2	1:p:523:LEU:HD13	1.90	0.54
1:q:342:PRO:HB3	1:s:421:GLN:HE22	1.72	0.54
1:q:624:MET:HE3	1:s:435:LEU:HD11	1.90	0.54
1:z:421:GLN:HE22	1:l:342:PRO:HB3	1.72	0.54
1:z:441:THR:HG23	1:z:446:GLY:O	2.08	0.54
1:3:624:MET:HE3	1:4:435:LEU:HD11	1.90	0.54
1:A:421:GLN:HE22	1:G:342:PRO:HB3	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:ALA:H	1:G:261:ASN:ND2	2.06	0.54
1:C:342:PRO:HB3	1:M:421:GLN:HE22	1.72	0.54
1:C:421:GLN:HE22	1:b:342:PRO:HB3	1.72	0.54
1:D:475:TRP:HB2	1:D:523:LEU:HD13	1.90	0.54
1:G:458:ALA:H	1:I:261:ASN:ND2	2.05	0.54
1:K:624:MET:HE3	1:8:435:LEU:HD11	1.90	0.54
1:L:441:THR:HG23	1:L:446:GLY:O	2.08	0.54
1:O:420:SER:HB2	1:O:721:THR:HG22	1.90	0.54
1:R:458:ALA:H	1:S:261:ASN:ND2	2.06	0.54
1:S:420:SER:HB2	1:S:721:THR:HG22	1.90	0.54
1:S:458:ALA:H	1:U:261:ASN:ND2	2.06	0.54
1:T:215:SER:HB2	1:T:307:PHE:HB2	1.89	0.54
1:T:461:TYR:HA	1:d:506:PRO:HD3	1.88	0.54
1:V:624:MET:HE3	1:X:435:LEU:HD11	1.90	0.54
1:a:461:TYR:HA	1:8:506:PRO:HD3	1.87	0.54
1:c:421:GLN:HE22	1:o:342:PRO:HB3	1.72	0.54
1:e:475:TRP:HB2	1:e:523:LEU:HD13	1.90	0.54
1:f:342:PRO:HB3	1:g:421:GLN:HE22	1.72	0.54
1:j:475:TRP:HB2	1:j:523:LEU:HD13	1.90	0.54
1:l:420:SER:HB2	1:l:721:THR:HG22	1.90	0.54
1:m:435:LEU:HD11	1:n:624:MET:HE3	1.90	0.54
1:n:288:GLN:NE2	1:n:689:TYR:O	2.35	0.54
1:o:435:LEU:HD11	1:p:624:MET:HE3	1.90	0.54
1:q:441:THR:HG23	1:q:446:GLY:O	2.08	0.54
1:q:458:ALA:H	1:r:261:ASN:ND2	2.06	0.54
1:r:458:ALA:H	1:s:261:ASN:ND2	2.05	0.54
1:1:458:ALA:H	1:2:261:ASN:ND2	2.06	0.54
1:5:382:ARG:HE	1:7:687:ILE:HD12	1.71	0.54
1:F:288:GLN:NE2	1:F:689:TYR:O	2.35	0.54
1:F:328:THR:O	1:F:397:ARG:NE	2.23	0.54
1:J:288:GLN:NE2	1:J:689:TYR:O	2.35	0.54
1:K:421:GLN:HE22	1:a:342:PRO:HB3	1.72	0.54
1:K:435:LEU:HD11	1:a:624:MET:HE3	1.90	0.54
1:M:624:MET:HE3	1:b:435:LEU:HD11	1.90	0.54
1:O:342:PRO:HB3	1:n:421:GLN:HE22	1.73	0.54
1:P:475:TRP:HB2	1:P:523:LEU:HD13	1.90	0.54
1:Q:420:SER:HB2	1:Q:721:THR:HG22	1.90	0.54
1:X:215:SER:HB2	1:X:307:PHE:HB2	1.89	0.54
1:Z:261:ASN:ND2	1:3:458:ALA:H	2.06	0.54
1:a:420:SER:HB2	1:a:721:THR:HG22	1.90	0.54
1:a:475:TRP:HB2	1:a:523:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:288:GLN:NE2	1:b:689:TYR:O	2.35	0.54
1:b:480:GLY:O	1:b:481:VAL:HG12	2.06	0.54
1:c:475:TRP:HB2	1:c:523:LEU:HD13	1.90	0.54
1:d:421:GLN:HE22	1:l:342:PRO:HB3	1.73	0.54
1:f:435:LEU:HD11	1:h:624:MET:HE3	1.90	0.54
1:i:435:LEU:HD11	1:j:624:MET:HE3	1.91	0.54
1:m:215:SER:HB2	1:m:307:PHE:HB2	1.89	0.54
1:m:461:TYR:HA	1:n:506:PRO:HD3	1.88	0.54
1:p:441:THR:HG23	1:p:446:GLY:O	2.08	0.54
1:r:420:SER:HB2	1:r:721:THR:HG22	1.90	0.54
1:r:475:TRP:HB2	1:r:523:LEU:HD13	1.90	0.54
1:s:420:SER:HB2	1:s:721:THR:HG22	1.90	0.54
1:t:261:ASN:ND2	1:v:458:ALA:H	2.06	0.54
1:t:421:GLN:HE22	1:u:342:PRO:HB3	1.72	0.54
1:t:441:THR:HG23	1:t:446:GLY:O	2.08	0.54
1:t:458:ALA:H	1:u:261:ASN:ND2	2.05	0.54
1:u:421:GLN:HE22	1:v:342:PRO:HB3	1.72	0.54
1:w:288:GLN:NE2	1:w:689:TYR:O	2.35	0.54
1:w:458:ALA:H	1:x:261:ASN:ND2	2.06	0.54
1:y:288:GLN:NE2	1:y:689:TYR:O	2.35	0.54
1:1:421:GLN:HE22	1:2:342:PRO:HB3	1.72	0.54
1:3:420:SER:HB2	1:3:721:THR:HG22	1.90	0.54
1:5:261:ASN:ND2	1:7:458:ALA:H	2.06	0.54
1:6:441:THR:HG23	1:6:446:GLY:O	2.08	0.54
1:D:420:SER:HB2	1:D:721:THR:HG22	1.90	0.53
1:E:288:GLN:NE2	1:E:689:TYR:O	2.35	0.53
1:E:420:SER:HB2	1:E:721:THR:HG22	1.90	0.53
1:E:458:ALA:H	1:Q:261:ASN:ND2	2.05	0.53
1:F:215:SER:HB2	1:F:307:PHE:HB2	1.89	0.53
1:G:421:GLN:HE22	1:I:342:PRO:HB3	1.72	0.53
1:G:435:LEU:HD11	1:I:624:MET:HE3	1.90	0.53
1:N:435:LEU:HD11	1:P:624:MET:HE3	1.91	0.53
1:R:441:THR:HG23	1:R:446:GLY:O	2.08	0.53
1:S:475:TRP:HB2	1:S:523:LEU:HD13	1.90	0.53
1:U:288:GLN:NE2	1:U:689:TYR:O	2.35	0.53
1:U:475:TRP:HB2	1:U:523:LEU:HD13	1.90	0.53
1:V:261:ASN:ND2	1:X:458:ALA:H	2.06	0.53
1:W:441:THR:HG23	1:W:446:GLY:O	2.08	0.53
1:W:458:ALA:H	1:Y:261:ASN:ND2	2.05	0.53
1:X:292:ASN:ND2	1:X:689:TYR:H	2.05	0.53
1:X:342:PRO:HB3	1:e:421:GLN:HE22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:624:MET:HE3	1:k:435:LEU:HD11	1.90	0.53
1:k:420:SER:HB2	1:k:721:THR:HG22	1.90	0.53
1:k:475:TRP:HB2	1:k:523:LEU:HD13	1.90	0.53
1:s:475:TRP:HB2	1:s:523:LEU:HD13	1.90	0.53
1:t:435:LEU:HD11	1:u:624:MET:HE3	1.90	0.53
1:t:475:TRP:HB2	1:t:523:LEU:HD13	1.90	0.53
1:u:420:SER:HB2	1:u:721:THR:HG22	1.90	0.53
1:w:420:SER:HB2	1:w:721:THR:HG22	1.90	0.53
1:w:475:TRP:HB2	1:w:523:LEU:HD13	1.90	0.53
1:x:420:SER:HB2	1:x:721:THR:HG22	1.90	0.53
1:y:215:SER:HB2	1:y:307:PHE:HB2	1.89	0.53
1:z:624:MET:HE3	1:2:435:LEU:HD11	1.90	0.53
1:3:475:TRP:HB2	1:3:523:LEU:HD13	1.90	0.53
1:A:261:ASN:ND2	1:I:458:ALA:H	2.05	0.53
1:C:215:SER:HB2	1:C:307:PHE:HB2	1.89	0.53
1:D:435:LEU:HD11	1:N:624:MET:HE3	1.90	0.53
1:E:421:GLN:HE22	1:Q:342:PRO:HB3	1.72	0.53
1:E:475:TRP:HB2	1:E:523:LEU:HD13	1.90	0.53
1:G:475:TRP:HB2	1:G:523:LEU:HD13	1.90	0.53
1:I:420:SER:HB2	1:I:721:THR:HG22	1.90	0.53
1:J:435:LEU:HD11	1:L:624:MET:HE3	1.90	0.53
1:M:475:TRP:HB2	1:M:523:LEU:HD13	1.90	0.53
1:T:435:LEU:HD11	1:d:624:MET:HE3	1.90	0.53
1:T:458:ALA:H	1:d:261:ASN:ND2	2.05	0.53
1:U:420:SER:HB2	1:U:721:THR:HG22	1.90	0.53
1:V:420:SER:HB2	1:V:721:THR:HG22	1.90	0.53
1:V:441:THR:HG23	1:V:446:GLY:O	2.08	0.53
1:X:441:THR:HG23	1:X:446:GLY:O	2.08	0.53
1:X:624:MET:HE3	1:e:435:LEU:HD11	1.90	0.53
1:a:227:ASP:OD1	1:a:228:ARG:N	2.42	0.53
1:d:288:GLN:NE2	1:d:689:TYR:O	2.35	0.53
1:f:480:GLY:O	1:f:481:VAL:HG12	2.06	0.53
1:o:215:SER:HB2	1:o:307:PHE:HB2	1.89	0.53
1:o:292:ASN:ND2	1:o:689:TYR:H	2.05	0.53
1:y:228:ARG:NH1	1:y:672:GLU:OE2	2.35	0.53
1:y:475:TRP:HB2	1:y:523:LEU:HD13	1.90	0.53
1:3:227:ASP:OD1	1:3:228:ARG:N	2.42	0.53
1:3:342:PRO:HB3	1:4:421:GLN:HE22	1.72	0.53
1:5:624:MET:HE3	1:7:435:LEU:HD11	1.90	0.53
1:A:624:MET:HE3	1:I:435:LEU:HD11	1.90	0.53
1:B:488:ALA:O	1:B:492:THR:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:342:PRO:HB3	1:P:421:GLN:HE22	1.73	0.53
1:F:228:ARG:NH1	1:F:672:GLU:OE2	2.35	0.53
1:F:475:TRP:HB2	1:F:523:LEU:HD13	1.90	0.53
1:G:441:THR:HG23	1:G:446:GLY:O	2.08	0.53
1:H:286:ASP:OD2	1:I:390:TYR:OH	2.27	0.53
1:I:441:THR:HG23	1:I:446:GLY:O	2.08	0.53
1:K:420:SER:HB2	1:K:721:THR:HG22	1.90	0.53
1:L:292:ASN:ND2	1:L:689:TYR:H	2.05	0.53
1:M:328:THR:O	1:M:397:ARG:NE	2.23	0.53
1:Q:441:THR:HG23	1:Q:446:GLY:O	2.08	0.53
1:U:227:ASP:OD1	1:U:228:ARG:N	2.42	0.53
1:W:420:SER:HB2	1:W:721:THR:HG22	1.90	0.53
1:Y:441:THR:HG23	1:Y:446:GLY:O	2.08	0.53
1:Y:475:TRP:HB2	1:Y:523:LEU:HD13	1.90	0.53
1:c:435:LEU:HD11	1:o:624:MET:HE3	1.90	0.53
1:d:292:ASN:ND2	1:d:689:TYR:H	2.05	0.53
1:d:488:ALA:O	1:d:492:THR:HG23	2.09	0.53
1:g:215:SER:HB2	1:g:307:PHE:HB2	1.89	0.53
1:h:475:TRP:HB2	1:h:523:LEU:HD13	1.90	0.53
1:h:488:ALA:O	1:h:492:THR:HG23	2.09	0.53
1:j:215:SER:HB2	1:j:307:PHE:HB2	1.89	0.53
1:j:488:ALA:O	1:j:492:THR:HG23	2.09	0.53
1:m:420:SER:HB2	1:m:721:THR:HG22	1.90	0.53
1:m:458:ALA:H	1:n:261:ASN:ND2	2.05	0.53
1:n:292:ASN:ND2	1:n:689:TYR:H	2.05	0.53
1:n:488:ALA:O	1:n:492:THR:HG23	2.09	0.53
1:o:458:ALA:H	1:p:261:ASN:ND2	2.06	0.53
1:u:441:THR:HG23	1:u:446:GLY:O	2.08	0.53
1:w:421:GLN:HE22	1:x:342:PRO:HB3	1.72	0.53
1:6:420:SER:HB2	1:6:721:THR:HG22	1.90	0.53
1:7:288:GLN:NE2	1:7:689:TYR:O	2.35	0.53
1:7:475:TRP:HB2	1:7:523:LEU:HD13	1.90	0.53
1:A:227:ASP:OD1	1:A:228:ARG:N	2.42	0.53
1:F:420:SER:HB2	1:F:721:THR:HG22	1.90	0.53
1:J:475:TRP:HB2	1:J:523:LEU:HD13	1.90	0.53
1:K:342:PRO:HB3	1:8:421:GLN:HE22	1.72	0.53
1:K:458:ALA:H	1:a:261:ASN:ND2	2.05	0.53
1:P:488:ALA:O	1:P:492:THR:HG23	2.09	0.53
1:Q:475:TRP:HB2	1:Q:523:LEU:HD13	1.90	0.53
1:S:488:ALA:O	1:S:492:THR:HG23	2.09	0.53
1:T:420:SER:HB2	1:T:721:THR:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:699:VAL:HG23	1:T:702:ALA:HB3	1.88	0.53
1:V:227:ASP:OD1	1:V:228:ARG:N	2.42	0.53
1:X:475:TRP:HB2	1:X:523:LEU:HD13	1.90	0.53
1:f:215:SER:HB2	1:f:307:PHE:HB2	1.89	0.53
1:j:432:ASP:HB2	1:j:453:LEU:HA	1.91	0.53
1:o:441:THR:HG23	1:o:446:GLY:O	2.08	0.53
1:o:475:TRP:HB2	1:o:523:LEU:HD13	1.90	0.53
1:p:227:ASP:OD1	1:p:228:ARG:N	2.42	0.53
1:p:420:SER:HB2	1:p:721:THR:HG22	1.90	0.53
1:p:488:ALA:O	1:p:492:THR:HG23	2.09	0.53
1:s:227:ASP:OD1	1:s:228:ARG:N	2.42	0.53
1:s:288:GLN:NE2	1:s:689:TYR:O	2.35	0.53
1:u:458:ALA:H	1:v:261:ASN:ND2	2.05	0.53
1:v:227:ASP:OD1	1:v:228:ARG:N	2.42	0.53
1:x:441:THR:HG23	1:x:446:GLY:O	2.08	0.53
1:y:420:SER:HB2	1:y:721:THR:HG22	1.90	0.53
1:2:475:TRP:HB2	1:2:523:LEU:HD13	1.90	0.53
1:3:261:ASN:ND2	1:4:458:ALA:H	2.05	0.53
1:4:420:SER:HB2	1:4:721:THR:HG22	1.90	0.53
1:4:488:ALA:O	1:4:492:THR:HG23	2.09	0.53
1:5:435:LEU:HD11	1:6:624:MET:HE3	1.90	0.53
1:E:227:ASP:OD1	1:E:228:ARG:N	2.42	0.53
1:G:488:ALA:O	1:G:492:THR:HG23	2.09	0.53
1:H:420:SER:HB2	1:H:721:THR:HG22	1.90	0.53
1:J:420:SER:HB2	1:J:721:THR:HG22	1.90	0.53
1:K:215:SER:HB2	1:K:307:PHE:HB2	1.89	0.53
1:K:432:ASP:HB2	1:K:453:LEU:HA	1.91	0.53
1:K:488:ALA:O	1:K:492:THR:HG23	2.09	0.53
1:L:488:ALA:O	1:L:492:THR:HG23	2.09	0.53
1:M:488:ALA:O	1:M:492:THR:HG23	2.09	0.53
1:P:215:SER:HB2	1:P:307:PHE:HB2	1.89	0.53
1:P:432:ASP:HB2	1:P:453:LEU:HA	1.91	0.53
1:R:488:ALA:O	1:R:492:THR:HG23	2.09	0.53
1:S:227:ASP:OD1	1:S:228:ARG:N	2.42	0.53
1:V:488:ALA:O	1:V:492:THR:HG23	2.09	0.53
1:X:432:ASP:HB2	1:X:453:LEU:HA	1.91	0.53
1:a:488:ALA:O	1:a:492:THR:HG23	2.09	0.53
1:l:328:THR:O	1:l:397:ARG:NE	2.23	0.53
1:m:699:VAL:HG23	1:m:702:ALA:HB3	1.88	0.53
1:o:420:SER:HB2	1:o:721:THR:HG22	1.90	0.53
1:r:227:ASP:OD1	1:r:228:ARG:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:488:ALA:O	1:r:492:THR:HG23	2.09	0.53
1:t:227:ASP:OD1	1:t:228:ARG:N	2.42	0.53
1:t:488:ALA:O	1:t:492:THR:HG23	2.09	0.53
1:u:435:LEU:HD11	1:v:624:MET:HE3	1.90	0.53
1:v:488:ALA:O	1:v:492:THR:HG23	2.09	0.53
1:x:475:TRP:HB2	1:x:523:LEU:HD13	1.90	0.53
1:z:292:ASN:ND2	1:z:689:TYR:H	2.05	0.53
1:z:488:ALA:O	1:z:492:THR:HG23	2.09	0.53
1:1:288:GLN:NE2	1:1:689:TYR:O	2.35	0.53
1:1:488:ALA:O	1:1:492:THR:HG23	2.09	0.53
1:3:488:ALA:O	1:3:492:THR:HG23	2.09	0.53
1:4:292:ASN:ND2	1:4:689:TYR:H	2.05	0.53
1:5:420:SER:HB2	1:5:721:THR:HG22	1.90	0.53
1:6:458:ALA:H	1:7:261:ASN:ND2	2.05	0.53
1:7:441:THR:HG23	1:7:446:GLY:O	2.08	0.53
1:A:488:ALA:O	1:A:492:THR:HG23	2.09	0.53
1:B:288:GLN:NE2	1:B:689:TYR:O	2.35	0.53
1:C:432:ASP:HB2	1:C:453:LEU:HA	1.91	0.53
1:C:441:THR:HG23	1:C:446:GLY:O	2.08	0.53
1:D:227:ASP:OD1	1:D:228:ARG:N	2.42	0.53
1:G:227:ASP:OD1	1:G:228:ARG:N	2.42	0.53
1:H:227:ASP:OD1	1:H:228:ARG:N	2.42	0.53
1:J:488:ALA:O	1:J:492:THR:HG23	2.09	0.53
1:K:292:ASN:ND2	1:K:689:TYR:H	2.05	0.53
1:L:420:SER:HB2	1:L:721:THR:HG22	1.90	0.53
1:L:475:TRP:HB2	1:L:523:LEU:HD13	1.90	0.53
1:O:328:THR:O	1:O:397:ARG:NE	2.23	0.53
1:S:432:ASP:HB2	1:S:453:LEU:HA	1.91	0.53
1:W:687:ILE:HD12	1:Y:382:ARG:HE	1.72	0.53
1:X:420:SER:HB2	1:X:721:THR:HG22	1.90	0.53
1:Z:421:GLN:HE22	1:4:342:PRO:HB3	1.72	0.53
1:Z:488:ALA:O	1:Z:492:THR:HG23	2.09	0.53
1:Z:624:MET:HE3	1:3:435:LEU:HD11	1.90	0.53
1:a:435:LEU:HD11	1:8:624:MET:HE3	1.90	0.53
1:b:215:SER:HB2	1:b:307:PHE:HB2	1.89	0.53
1:c:227:ASP:OD1	1:c:228:ARG:N	2.42	0.53
1:d:432:ASP:HB2	1:d:453:LEU:HA	1.91	0.53
1:d:475:TRP:HB2	1:d:523:LEU:HD13	1.90	0.53
1:g:432:ASP:HB2	1:g:453:LEU:HA	1.91	0.53
1:i:232:LYS:HG2	1:i:670:GLU:HB3	1.91	0.53
1:i:488:ALA:O	1:i:492:THR:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:550:THR:HG23	1:i:602:TYR:OH	2.09	0.53
1:k:227:ASP:OD1	1:k:228:ARG:N	2.42	0.53
1:n:420:SER:HB2	1:n:721:THR:HG22	1.90	0.53
1:n:432:ASP:HB2	1:n:453:LEU:HA	1.91	0.53
1:q:488:ALA:O	1:q:492:THR:HG23	2.09	0.53
1:y:227:ASP:OD1	1:y:228:ARG:N	2.42	0.53
1:y:328:THR:O	1:y:397:ARG:NE	2.23	0.53
1:z:475:TRP:HB2	1:z:523:LEU:HD13	1.90	0.53
1:2:420:SER:HB2	1:2:721:THR:HG22	1.90	0.53
1:4:432:ASP:HB2	1:4:453:LEU:HA	1.91	0.53
1:8:488:ALA:O	1:8:492:THR:HG23	2.09	0.53
1:B:432:ASP:HB2	1:B:453:LEU:HA	1.91	0.53
1:C:550:THR:HG23	1:C:602:TYR:OH	2.09	0.53
1:F:227:ASP:OD1	1:F:228:ARG:N	2.42	0.53
1:K:328:THR:O	1:K:397:ARG:NE	2.23	0.53
1:M:227:ASP:OD1	1:M:228:ARG:N	2.42	0.53
1:N:232:LYS:HG2	1:N:670:GLU:HB3	1.91	0.53
1:N:550:THR:HG23	1:N:602:TYR:OH	2.09	0.53
1:P:227:ASP:OD1	1:P:228:ARG:N	2.42	0.53
1:Q:550:THR:HG23	1:Q:602:TYR:OH	2.09	0.53
1:b:227:ASP:OD1	1:b:228:ARG:N	2.42	0.53
1:c:228:ARG:NH1	1:c:672:GLU:OE2	2.35	0.53
1:c:432:ASP:HB2	1:c:453:LEU:HA	1.91	0.53
1:d:227:ASP:OD1	1:d:228:ARG:N	2.42	0.53
1:d:420:SER:HB2	1:d:721:THR:HG22	1.90	0.53
1:e:227:ASP:OD1	1:e:228:ARG:N	2.42	0.53
1:f:227:ASP:OD1	1:f:228:ARG:N	2.42	0.53
1:g:550:THR:HG23	1:g:602:TYR:OH	2.09	0.53
1:h:227:ASP:OD1	1:h:228:ARG:N	2.42	0.53
1:j:227:ASP:OD1	1:j:228:ARG:N	2.42	0.53
1:n:475:TRP:HB2	1:n:523:LEU:HD13	1.90	0.53
1:o:214:ALA:H	1:7:400:ASN:HD21	1.57	0.53
1:o:432:ASP:HB2	1:o:453:LEU:HA	1.91	0.53
1:r:435:LEU:HD11	1:s:624:MET:HE3	1.90	0.53
1:w:227:ASP:OD1	1:w:228:ARG:N	2.42	0.53
1:z:420:SER:HB2	1:z:721:THR:HG22	1.90	0.53
1:5:227:ASP:OD1	1:5:228:ARG:N	2.42	0.53
1:8:232:LYS:HG2	1:8:670:GLU:HB3	1.91	0.53
1:8:328:THR:O	1:8:397:ARG:NE	2.23	0.53
1:D:488:ALA:O	1:D:492:THR:HG23	2.09	0.53
1:E:292:ASN:ND2	1:E:689:TYR:H	2.05	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:550:THR:HG23	1:I:602:TYR:OH	2.09	0.53
1:K:227:ASP:OD1	1:K:228:ARG:N	2.42	0.53
1:N:488:ALA:O	1:N:492:THR:HG23	2.09	0.53
1:O:421:GLN:HE22	1:m:342:PRO:HB3	1.72	0.53
1:O:488:ALA:O	1:O:492:THR:HG23	2.09	0.53
1:Q:227:ASP:OD1	1:Q:228:ARG:N	2.42	0.53
1:R:288:GLN:NE2	1:R:689:TYR:O	2.35	0.53
1:S:435:LEU:HD11	1:U:624:MET:HE3	1.90	0.53
1:U:441:THR:HG23	1:U:446:GLY:O	2.08	0.53
1:U:550:THR:HG23	1:U:602:TYR:OH	2.09	0.53
1:X:227:ASP:OD1	1:X:228:ARG:N	2.42	0.53
1:Y:288:GLN:NE2	1:Y:689:TYR:O	2.35	0.53
1:Z:232:LYS:HG2	1:Z:670:GLU:HB3	1.91	0.53
1:Z:328:THR:O	1:Z:397:ARG:NE	2.23	0.53
1:a:432:ASP:HB2	1:a:453:LEU:HA	1.91	0.53
1:b:550:THR:HG23	1:b:602:TYR:OH	2.09	0.53
1:c:232:LYS:HG2	1:c:670:GLU:HB3	1.91	0.53
1:d:232:LYS:HG2	1:d:670:GLU:HB3	1.91	0.53
1:e:232:LYS:HG2	1:e:670:GLU:HB3	1.91	0.53
1:e:432:ASP:HB2	1:e:453:LEU:HA	1.91	0.53
1:g:441:THR:HG23	1:g:446:GLY:O	2.08	0.53
1:l:227:ASP:OD1	1:l:228:ARG:N	2.42	0.53
1:n:227:ASP:OD1	1:n:228:ARG:N	2.42	0.53
1:n:232:LYS:HG2	1:n:670:GLU:HB3	1.91	0.53
1:o:488:ALA:O	1:o:492:THR:HG23	2.09	0.53
1:q:288:GLN:NE2	1:q:689:TYR:O	2.35	0.53
1:r:432:ASP:HB2	1:r:453:LEU:HA	1.91	0.53
1:s:432:ASP:HB2	1:s:453:LEU:HA	1.91	0.53
1:s:441:THR:HG23	1:s:446:GLY:O	2.08	0.53
1:s:488:ALA:O	1:s:492:THR:HG23	2.09	0.53
1:u:550:THR:HG23	1:u:602:TYR:OH	2.09	0.53
1:x:227:ASP:OD1	1:x:228:ARG:N	2.42	0.53
1:x:550:THR:HG23	1:x:602:TYR:OH	2.09	0.53
1:1:432:ASP:HB2	1:1:453:LEU:HA	1.91	0.53
1:2:488:ALA:O	1:2:492:THR:HG23	2.09	0.53
1:4:215:SER:HB2	1:4:307:PHE:HB2	1.89	0.53
1:B:232:LYS:HG2	1:B:670:GLU:HB3	1.91	0.53
1:D:624:MET:HE3	1:P:435:LEU:HD11	1.90	0.53
1:E:488:ALA:O	1:E:492:THR:HG23	2.09	0.53
1:F:232:LYS:HG2	1:F:670:GLU:HB3	1.91	0.53
1:G:432:ASP:HB2	1:G:453:LEU:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:288:GLN:NE2	1:M:689:TYR:O	2.35	0.53
1:N:420:SER:HB2	1:N:721:THR:HG22	1.90	0.53
1:O:227:ASP:OD1	1:O:228:ARG:N	2.42	0.53
1:T:342:PRO:HB3	1:l:421:GLN:HE22	1.72	0.53
1:U:488:ALA:O	1:U:492:THR:HG23	2.09	0.53
1:X:286:ASP:OD2	1:Y:390:TYR:OH	2.27	0.53
1:Z:227:ASP:OD1	1:Z:228:ARG:N	2.42	0.53
1:c:288:GLN:NE2	1:c:689:TYR:O	2.35	0.53
1:f:550:THR:HG23	1:f:602:TYR:OH	2.09	0.53
1:h:328:THR:O	1:h:397:ARG:NE	2.23	0.53
1:j:435:LEU:HD11	1:k:624:MET:HE3	1.90	0.53
1:k:488:ALA:O	1:k:492:THR:HG23	2.09	0.53
1:l:292:ASN:ND2	1:l:689:TYR:H	2.05	0.53
1:m:475:TRP:HB2	1:m:523:LEU:HD13	1.90	0.53
1:s:550:THR:HG23	1:s:602:TYR:OH	2.09	0.53
1:u:432:ASP:HB2	1:u:453:LEU:HA	1.91	0.53
1:w:292:ASN:ND2	1:w:689:TYR:H	2.05	0.53
1:y:232:LYS:HG2	1:y:670:GLU:HB3	1.91	0.53
1:z:228:ARG:NH1	1:z:672:GLU:OE2	2.35	0.53
1:3:292:ASN:ND2	1:3:689:TYR:H	2.05	0.53
1:4:227:ASP:OD1	1:4:228:ARG:N	2.42	0.53
1:5:550:THR:HG23	1:5:602:TYR:OH	2.09	0.53
1:8:227:ASP:OD1	1:8:228:ARG:N	2.42	0.53
1:8:288:GLN:NE2	1:8:689:TYR:O	2.35	0.53
1:C:227:ASP:OD1	1:C:228:ARG:N	2.42	0.53
1:D:261:ASN:ND2	1:P:458:ALA:H	2.06	0.53
1:H:261:ASN:ND2	1:Y:458:ALA:H	2.07	0.53
1:H:550:THR:HG23	1:H:602:TYR:OH	2.09	0.53
1:I:432:ASP:HB2	1:I:453:LEU:HA	1.91	0.53
1:I:488:ALA:O	1:I:492:THR:HG23	2.09	0.53
1:K:288:GLN:NE2	1:K:689:TYR:O	2.35	0.53
1:L:228:ARG:NH1	1:L:672:GLU:OE2	2.35	0.53
1:M:286:ASP:OD2	1:N:390:TYR:OH	2.27	0.53
1:M:420:SER:HB2	1:M:721:THR:HG22	1.90	0.53
1:N:432:ASP:HB2	1:N:453:LEU:HA	1.91	0.53
1:O:232:LYS:HG2	1:O:670:GLU:HB3	1.91	0.53
1:O:292:ASN:ND2	1:O:689:TYR:H	2.05	0.53
1:T:475:TRP:HB2	1:T:523:LEU:HD13	1.90	0.53
1:U:292:ASN:ND2	1:U:689:TYR:H	2.05	0.53
1:U:432:ASP:HB2	1:U:453:LEU:HA	1.91	0.53
1:W:475:TRP:HB2	1:W:523:LEU:HD13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:488:ALA:O	1:W:492:THR:HG23	2.09	0.53
1:X:214:ALA:H	1:Y:400:ASN:HD21	1.57	0.53
1:X:488:ALA:O	1:X:492:THR:HG23	2.09	0.53
1:Z:288:GLN:NE2	1:Z:689:TYR:O	2.35	0.53
1:Z:400:ASN:HD21	1:a:214:ALA:H	1.57	0.53
1:Z:420:SER:HB2	1:Z:721:THR:HG22	1.90	0.53
1:b:420:SER:HB2	1:b:721:THR:HG22	1.90	0.53
1:e:228:ARG:NH1	1:e:672:GLU:OE2	2.35	0.53
1:g:232:LYS:HG2	1:g:670:GLU:HB3	1.91	0.53
1:h:420:SER:HB2	1:h:721:THR:HG22	1.90	0.53
1:j:292:ASN:ND2	1:j:689:TYR:H	2.05	0.53
1:j:458:ALA:H	1:k:261:ASN:ND2	2.05	0.53
1:o:227:ASP:OD1	1:o:228:ARG:N	2.42	0.53
1:p:232:LYS:HG2	1:p:670:GLU:HB3	1.91	0.53
1:t:432:ASP:HB2	1:t:453:LEU:HA	1.91	0.53
1:u:227:ASP:OD1	1:u:228:ARG:N	2.42	0.53
1:u:488:ALA:O	1:u:492:THR:HG23	2.09	0.53
1:x:228:ARG:NH1	1:x:672:GLU:OE2	2.35	0.53
1:1:232:LYS:HG2	1:1:670:GLU:HB3	1.91	0.53
1:3:432:ASP:HB2	1:3:453:LEU:HA	1.91	0.53
1:5:432:ASP:HB2	1:5:453:LEU:HA	1.91	0.53
1:6:435:LEU:HD11	1:7:624:MET:HE3	1.90	0.53
1:6:475:TRP:HB2	1:6:523:LEU:HD13	1.90	0.53
1:6:550:THR:HG23	1:6:602:TYR:OH	2.09	0.53
1:B:227:ASP:OD1	1:B:228:ARG:N	2.42	0.52
1:B:400:ASN:HD21	1:C:214:ALA:H	1.57	0.52
1:C:232:LYS:HG2	1:C:670:GLU:HB3	1.91	0.52
1:C:475:TRP:HB2	1:C:523:LEU:HD13	1.90	0.52
1:E:624:MET:HE3	1:F:435:LEU:HD11	1.90	0.52
1:H:232:LYS:HG2	1:H:670:GLU:HB3	1.91	0.52
1:H:432:ASP:HB2	1:H:453:LEU:HA	1.91	0.52
1:I:227:ASP:OD1	1:I:228:ARG:N	2.42	0.52
1:Q:488:ALA:O	1:Q:492:THR:HG23	2.09	0.52
1:R:420:SER:HB2	1:R:721:THR:HG22	1.90	0.52
1:T:328:THR:O	1:T:397:ARG:NE	2.23	0.52
1:T:432:ASP:HB2	1:T:453:LEU:HA	1.91	0.52
1:V:232:LYS:HG2	1:V:670:GLU:HB3	1.91	0.52
1:W:232:LYS:HG2	1:W:670:GLU:HB3	1.91	0.52
1:W:435:LEU:HD11	1:Y:624:MET:HE3	1.90	0.52
1:W:550:THR:HG23	1:W:602:TYR:OH	2.09	0.52
1:X:550:THR:HG23	1:X:602:TYR:OH	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:420:SER:HB2	1:Y:721:THR:HG22	1.90	0.52
1:a:292:ASN:ND2	1:a:689:TYR:H	2.05	0.52
1:f:420:SER:HB2	1:f:721:THR:HG22	1.90	0.52
1:g:227:ASP:OD1	1:g:228:ARG:N	2.42	0.52
1:g:475:TRP:HB2	1:g:523:LEU:HD13	1.90	0.52
1:i:420:SER:HB2	1:i:721:THR:HG22	1.90	0.52
1:l:232:LYS:HG2	1:l:670:GLU:HB3	1.91	0.52
1:l:488:ALA:O	1:l:492:THR:HG23	2.09	0.52
1:m:232:LYS:HG2	1:m:670:GLU:HB3	1.91	0.52
1:o:550:THR:HG23	1:o:602:TYR:OH	2.09	0.52
1:q:420:SER:HB2	1:q:721:THR:HG22	1.90	0.52
1:v:550:THR:HG23	1:v:602:TYR:OH	2.09	0.52
1:w:488:ALA:O	1:w:492:THR:HG23	2.09	0.52
1:x:488:ALA:O	1:x:492:THR:HG23	2.09	0.52
1:3:214:ALA:H	1:8:400:ASN:HD21	1.58	0.52
1:4:475:TRP:HB2	1:4:523:LEU:HD13	1.90	0.52
1:6:232:LYS:HG2	1:6:670:GLU:HB3	1.91	0.52
1:6:292:ASN:ND2	1:6:689:TYR:H	2.05	0.52
1:A:550:THR:HG23	1:A:602:TYR:OH	2.09	0.52
1:F:550:THR:HG23	1:F:602:TYR:OH	2.09	0.52
1:H:228:ARG:NH1	1:H:672:GLU:OE2	2.35	0.52
1:K:390:TYR:OH	1:7:286:ASP:OD2	2.28	0.52
1:K:475:TRP:HB2	1:K:523:LEU:HD13	1.90	0.52
1:M:232:LYS:HG2	1:M:670:GLU:HB3	1.91	0.52
1:P:292:ASN:ND2	1:P:689:TYR:H	2.05	0.52
1:T:232:LYS:HG2	1:T:670:GLU:HB3	1.91	0.52
1:g:488:ALA:O	1:g:492:THR:HG23	2.09	0.52
1:h:232:LYS:HG2	1:h:670:GLU:HB3	1.91	0.52
1:m:432:ASP:HB2	1:m:453:LEU:HA	1.91	0.52
1:m:488:ALA:O	1:m:492:THR:HG23	2.09	0.52
1:y:488:ALA:O	1:y:492:THR:HG23	2.09	0.52
1:2:228:ARG:NH1	1:2:672:GLU:OE2	2.35	0.52
1:3:550:THR:HG23	1:3:602:TYR:OH	2.09	0.52
1:4:288:GLN:NE2	1:4:689:TYR:O	2.35	0.52
1:5:232:LYS:HG2	1:5:670:GLU:HB3	1.91	0.52
1:5:400:ASN:HD21	1:8:214:ALA:H	1.58	0.52
1:6:488:ALA:O	1:6:492:THR:HG23	2.09	0.52
1:7:227:ASP:OD1	1:7:228:ARG:N	2.42	0.52
1:7:232:LYS:HG2	1:7:670:GLU:HB3	1.91	0.52
1:7:328:THR:O	1:7:397:ARG:NE	2.23	0.52
1:7:420:SER:HB2	1:7:721:THR:HG22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:420:SER:HB2	1:8:721:THR:HG22	1.90	0.52
1:G:420:SER:HB2	1:G:721:THR:HG22	1.90	0.52
1:J:228:ARG:NH1	1:J:672:GLU:OE2	2.35	0.52
1:M:214:ALA:H	1:N:400:ASN:HD21	1.57	0.52
1:O:550:THR:HG23	1:O:602:TYR:OH	2.09	0.52
1:P:286:ASP:OD2	1:Q:390:TYR:OH	2.28	0.52
1:T:227:ASP:OD1	1:T:228:ARG:N	2.42	0.52
1:W:292:ASN:ND2	1:W:689:TYR:H	2.05	0.52
1:Y:286:ASP:OD2	1:4:390:TYR:OH	2.28	0.52
1:a:550:THR:HG23	1:a:602:TYR:OH	2.09	0.52
1:b:488:ALA:O	1:b:492:THR:HG23	2.09	0.52
1:h:288:GLN:NE2	1:h:689:TYR:O	2.35	0.52
1:i:432:ASP:HB2	1:i:453:LEU:HA	1.91	0.52
1:l:550:THR:HG23	1:l:602:TYR:OH	2.09	0.52
1:n:228:ARG:NH1	1:n:672:GLU:OE2	2.35	0.52
1:q:292:ASN:ND2	1:q:689:TYR:H	2.05	0.52
1:s:292:ASN:ND2	1:s:689:TYR:H	2.05	0.52
1:u:400:ASN:HD21	1:5:214:ALA:H	1.57	0.52
1:w:232:LYS:HG2	1:w:670:GLU:HB3	1.91	0.52
1:y:550:THR:HG23	1:y:602:TYR:OH	2.09	0.52
1:1:227:ASP:OD1	1:1:228:ARG:N	2.42	0.52
1:4:328:THR:O	1:4:397:ARG:NE	2.23	0.52
1:5:475:TRP:HB2	1:5:523:LEU:HD13	1.90	0.52
1:A:232:LYS:HG2	1:A:670:GLU:HB3	1.91	0.52
1:C:390:TYR:OH	1:D:286:ASP:OD2	2.28	0.52
1:C:488:ALA:O	1:C:492:THR:HG23	2.09	0.52
1:D:432:ASP:HB2	1:D:453:LEU:HA	1.91	0.52
1:F:214:ALA:H	1:G:400:ASN:HD21	1.58	0.52
1:J:232:LYS:HG2	1:J:670:GLU:HB3	1.91	0.52
1:K:550:THR:HG23	1:K:602:TYR:OH	2.09	0.52
1:L:214:ALA:H	1:b:400:ASN:HD21	1.58	0.52
1:O:435:LEU:HD11	1:m:624:MET:HE3	1.90	0.52
1:Q:228:ARG:NH1	1:Q:672:GLU:OE2	2.35	0.52
1:T:400:ASN:HD21	1:i:214:ALA:H	1.58	0.52
1:T:488:ALA:O	1:T:492:THR:HG23	2.09	0.52
1:Y:227:ASP:OD1	1:Y:228:ARG:N	2.42	0.52
1:Y:232:LYS:HG2	1:Y:670:GLU:HB3	1.91	0.52
1:d:228:ARG:NH1	1:d:672:GLU:OE2	2.35	0.52
1:e:288:GLN:NE2	1:e:689:TYR:O	2.35	0.52
1:e:550:THR:HG23	1:e:602:TYR:OH	2.09	0.52
1:f:400:ASN:HD21	1:z:214:ALA:H	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:488:ALA:O	1:f:492:THR:HG23	2.09	0.52
1:h:286:ASP:OD2	1:i:390:TYR:OH	2.27	0.52
1:i:227:ASP:OD1	1:i:228:ARG:N	2.42	0.52
1:i:475:TRP:HB2	1:i:523:LEU:HD13	1.90	0.52
1:j:286:ASP:OD2	1:x:390:TYR:OH	2.28	0.52
1:k:232:LYS:HG2	1:k:670:GLU:HB3	1.91	0.52
1:l:475:TRP:HB2	1:l:523:LEU:HD13	1.90	0.52
1:m:227:ASP:OD1	1:m:228:ARG:N	2.42	0.52
1:s:232:LYS:HG2	1:s:670:GLU:HB3	1.91	0.52
1:t:328:THR:O	1:t:397:ARG:NE	2.23	0.52
1:w:624:MET:HE3	1:y:435:LEU:HD11	1.90	0.52
1:2:232:LYS:HG2	1:2:670:GLU:HB3	1.91	0.52
1:2:432:ASP:HB2	1:2:453:LEU:HA	1.91	0.52
1:4:550:THR:HG23	1:4:602:TYR:OH	2.09	0.52
1:6:227:ASP:OD1	1:6:228:ARG:N	2.42	0.52
1:7:488:ALA:O	1:7:492:THR:HG23	2.09	0.52
1:A:435:LEU:HD11	1:G:624:MET:HE3	1.90	0.52
1:A:475:TRP:HB2	1:A:523:LEU:HD13	1.90	0.52
1:D:232:LYS:HG2	1:D:670:GLU:HB3	1.91	0.52
1:E:232:LYS:HG2	1:E:670:GLU:HB3	1.91	0.52
1:F:488:ALA:O	1:F:492:THR:HG23	2.09	0.52
1:H:475:TRP:HB2	1:H:523:LEU:HD13	1.90	0.52
1:H:624:MET:HE3	1:Y:435:LEU:HD11	1.91	0.52
1:I:475:TRP:HB2	1:I:523:LEU:HD13	1.90	0.52
1:N:475:TRP:HB2	1:N:523:LEU:HD13	1.90	0.52
1:O:214:ALA:H	1:P:400:ASN:HD21	1.57	0.52
1:R:292:ASN:ND2	1:R:689:TYR:H	2.05	0.52
1:T:624:MET:HE3	1:l:435:LEU:HD11	1.90	0.52
1:U:232:LYS:HG2	1:U:670:GLU:HB3	1.91	0.52
1:V:435:LEU:HD11	1:e:624:MET:HE3	1.90	0.52
1:Y:488:ALA:O	1:Y:492:THR:HG23	2.09	0.52
1:c:400:ASN:HD21	1:s:214:ALA:H	1.57	0.52
1:c:550:THR:HG23	1:c:602:TYR:OH	2.09	0.52
1:e:420:SER:HB2	1:e:721:THR:HG22	1.90	0.52
1:f:475:TRP:HB2	1:f:523:LEU:HD13	1.90	0.52
1:g:390:TYR:OH	1:k:286:ASP:OD2	2.28	0.52
1:i:288:GLN:NE2	1:i:689:TYR:O	2.35	0.52
1:j:550:THR:HG23	1:j:602:TYR:OH	2.09	0.52
1:t:420:SER:HB2	1:t:721:THR:HG22	1.90	0.52
1:u:475:TRP:HB2	1:u:523:LEU:HD13	1.90	0.52
1:v:475:TRP:HB2	1:v:523:LEU:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:435:LEU:HD11	1:x:624:MET:HE3	1.90	0.52
1:z:435:LEU:HD11	1:1:624:MET:HE3	1.90	0.52
1:2:214:ALA:H	1:3:400:ASN:HD21	1.58	0.52
1:3:328:THR:O	1:3:397:ARG:NE	2.23	0.52
1:6:228:ARG:NH1	1:6:672:GLU:OE2	2.35	0.52
1:G:292:ASN:ND2	1:G:689:TYR:H	2.05	0.52
1:H:458:ALA:H	1:W:261:ASN:ND2	2.08	0.52
1:J:214:ALA:H	1:a:400:ASN:HD21	1.58	0.52
1:J:432:ASP:HB2	1:J:453:LEU:HA	1.91	0.52
1:K:232:LYS:HG2	1:K:670:GLU:HB3	1.91	0.52
1:L:227:ASP:OD1	1:L:228:ARG:N	2.42	0.52
1:N:214:ALA:H	1:m:400:ASN:HD21	1.58	0.52
1:N:227:ASP:OD1	1:N:228:ARG:N	2.42	0.52
1:O:475:TRP:HB2	1:O:523:LEU:HD13	1.90	0.52
1:O:624:MET:HE3	1:n:435:LEU:HD11	1.90	0.52
1:P:550:THR:HG23	1:P:602:TYR:OH	2.09	0.52
1:Q:292:ASN:ND2	1:Q:689:TYR:H	2.05	0.52
1:S:292:ASN:ND2	1:S:689:TYR:H	2.05	0.52
1:W:227:ASP:OD1	1:W:228:ARG:N	2.42	0.52
1:Z:342:PRO:HB3	1:3:421:GLN:HE22	1.72	0.52
1:a:421:GLN:HE22	1:8:342:PRO:HB3	1.73	0.52
1:b:475:TRP:HB2	1:b:523:LEU:HD13	1.90	0.52
1:c:624:MET:HE3	1:p:435:LEU:HD11	1.90	0.52
1:d:435:LEU:HD11	1:l:624:MET:HE3	1.90	0.52
1:h:214:ALA:H	1:i:400:ASN:HD21	1.57	0.52
1:j:232:LYS:HG2	1:j:670:GLU:HB3	1.91	0.52
1:k:550:THR:HG23	1:k:602:TYR:OH	2.09	0.52
1:l:400:ASN:HD21	1:n:214:ALA:H	1.58	0.52
1:p:390:TYR:OH	1:6:286:ASP:OD2	2.28	0.52
1:t:400:ASN:HD21	1:y:214:ALA:H	1.58	0.52
1:v:232:LYS:HG2	1:v:670:GLU:HB3	1.91	0.52
1:1:420:SER:HB2	1:1:721:THR:HG22	1.90	0.52
1:5:390:TYR:OH	1:8:286:ASP:OD2	2.28	0.52
1:8:432:ASP:HB2	1:8:453:LEU:HA	1.91	0.52
1:A:214:ALA:H	1:E:400:ASN:HD21	1.58	0.52
1:B:420:SER:HB2	1:B:721:THR:HG22	1.90	0.52
1:B:624:MET:HE3	1:L:435:LEU:HD11	1.90	0.52
1:E:435:LEU:HD11	1:Q:624:MET:HE3	1.90	0.52
1:H:488:ALA:O	1:H:492:THR:HG23	2.09	0.52
1:J:550:THR:HG23	1:J:602:TYR:OH	2.09	0.52
1:N:288:GLN:NE2	1:N:689:TYR:O	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:400:ASN:HD21	1:d:214:ALA:H	1.58	0.52
1:P:232:LYS:HG2	1:P:670:GLU:HB3	1.91	0.52
1:Y:328:THR:O	1:Y:397:ARG:NE	2.23	0.52
1:Z:432:ASP:HB2	1:Z:453:LEU:HA	1.91	0.52
1:c:420:SER:HB2	1:c:721:THR:HG22	1.90	0.52
1:g:214:ALA:H	1:1:400:ASN:HD21	1.58	0.52
1:j:400:ASN:HD21	1:l:214:ALA:H	1.58	0.52
1:k:432:ASP:HB2	1:k:453:LEU:HA	1.91	0.52
1:m:328:THR:O	1:m:397:ARG:NE	2.23	0.52
1:t:624:MET:HE3	1:v:435:LEU:HD11	1.90	0.52
1:v:390:TYR:OH	1:1:286:ASP:OD2	2.28	0.52
1:x:292:ASN:ND2	1:x:689:TYR:H	2.05	0.52
1:z:227:ASP:OD1	1:z:228:ARG:N	2.42	0.52
1:1:475:TRP:HB2	1:1:523:LEU:HD13	1.90	0.52
1:4:232:LYS:HG2	1:4:670:GLU:HB3	1.91	0.52
1:5:488:ALA:O	1:5:492:THR:HG23	2.09	0.52
1:D:550:THR:HG23	1:D:602:TYR:OH	2.09	0.52
1:E:432:ASP:HB2	1:E:453:LEU:HA	1.91	0.52
1:F:432:ASP:HB2	1:F:453:LEU:HA	1.91	0.52
1:I:214:ALA:H	1:J:400:ASN:HD21	1.57	0.52
1:R:227:ASP:OD1	1:R:228:ARG:N	2.42	0.52
1:R:550:THR:HG23	1:R:602:TYR:OH	2.09	0.52
1:U:214:ALA:H	1:e:400:ASN:HD21	1.58	0.52
1:V:390:TYR:OH	1:W:286:ASP:OD2	2.28	0.52
1:Y:550:THR:HG23	1:Y:602:TYR:OH	2.09	0.52
1:Z:550:THR:HG23	1:Z:602:TYR:OH	2.09	0.52
1:e:488:ALA:O	1:e:492:THR:HG23	2.09	0.52
1:p:432:ASP:HB2	1:p:453:LEU:HA	1.91	0.52
1:r:292:ASN:ND2	1:r:689:TYR:H	2.05	0.52
1:t:214:ALA:H	1:6:400:ASN:HD21	1.57	0.52
1:u:214:ALA:H	1:2:400:ASN:HD21	1.57	0.52
1:v:214:ALA:H	1:w:400:ASN:HD21	1.58	0.52
1:v:432:ASP:HB2	1:v:453:LEU:HA	1.91	0.52
1:2:227:ASP:OD1	1:2:228:ARG:N	2.42	0.52
1:2:328:THR:O	1:2:397:ARG:NE	2.23	0.52
1:8:550:THR:HG23	1:8:602:TYR:OH	2.09	0.52
1:A:420:SER:HB2	1:A:721:THR:HG22	1.90	0.52
1:A:432:ASP:HB2	1:A:453:LEU:HA	1.91	0.52
1:G:328:THR:O	1:G:397:ARG:NE	2.23	0.52
1:H:613:GLU:HG2	1:Y:722:ARG:NE	2.24	0.52
1:I:286:ASP:OD2	1:J:390:TYR:OH	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:332:GLN:HG2	1:K:395:MET:HG2	1.92	0.52
1:R:328:THR:O	1:R:397:ARG:NE	2.23	0.52
1:T:332:GLN:HG2	1:T:395:MET:HG2	1.92	0.52
1:V:432:ASP:HB2	1:V:453:LEU:HA	1.91	0.52
1:Y:332:GLN:HG2	1:Y:395:MET:HG2	1.92	0.52
1:f:432:ASP:HB2	1:f:453:LEU:HA	1.91	0.52
1:m:332:GLN:HG2	1:m:395:MET:HG2	1.92	0.52
1:q:286:ASP:OD2	1:y:390:TYR:OH	2.28	0.52
1:q:328:THR:O	1:q:397:ARG:NE	2.23	0.52
1:q:550:THR:HG23	1:q:602:TYR:OH	2.09	0.52
1:r:400:ASN:HD21	1:x:214:ALA:H	1.57	0.52
1:r:550:THR:HG23	1:r:602:TYR:OH	2.09	0.52
1:t:292:ASN:ND2	1:t:689:TYR:H	2.05	0.52
1:u:286:ASP:OD2	1:2:390:TYR:OH	2.28	0.52
1:u:390:TYR:OH	1:5:286:ASP:OD2	2.28	0.52
1:v:400:ASN:HD21	1:1:214:ALA:H	1.58	0.52
1:v:420:SER:HB2	1:v:721:THR:HG22	1.90	0.52
1:w:432:ASP:HB2	1:w:453:LEU:HA	1.91	0.52
1:y:332:GLN:HG2	1:y:395:MET:HG2	1.92	0.52
1:2:550:THR:HG23	1:2:602:TYR:OH	2.09	0.52
1:3:286:ASP:OD2	1:8:390:TYR:OH	2.28	0.52
1:4:332:GLN:HG2	1:4:395:MET:HG2	1.92	0.52
1:B:475:TRP:HB2	1:B:523:LEU:HD13	1.90	0.52
1:F:332:GLN:HG2	1:F:395:MET:HG2	1.92	0.52
1:F:390:TYR:OH	1:R:286:ASP:OD2	2.28	0.52
1:G:214:ALA:H	1:W:400:ASN:HD21	1.58	0.52
1:G:286:ASP:OD2	1:W:390:TYR:OH	2.28	0.52
1:H:591:VAL:HG22	1:W:589:GLU:OE1	2.10	0.52
1:J:227:ASP:OD1	1:J:228:ARG:N	2.42	0.52
1:K:400:ASN:HD21	1:7:214:ALA:H	1.58	0.52
1:L:232:LYS:HG2	1:L:670:GLU:HB3	1.91	0.52
1:L:332:GLN:HG2	1:L:395:MET:HG2	1.92	0.52
1:O:332:GLN:HG2	1:O:395:MET:HG2	1.92	0.52
1:S:286:ASP:OD2	1:d:390:TYR:OH	2.28	0.52
1:S:332:GLN:HG2	1:S:395:MET:HG2	1.92	0.52
1:S:550:THR:HG23	1:S:602:TYR:OH	2.09	0.52
1:T:550:THR:HG23	1:T:602:TYR:OH	2.09	0.52
1:W:228:ARG:NH1	1:W:672:GLU:OE2	2.35	0.52
1:Z:390:TYR:OH	1:a:286:ASP:OD2	2.28	0.52
1:a:328:THR:O	1:a:397:ARG:NE	2.23	0.52
1:b:432:ASP:HB2	1:b:453:LEU:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:390:TYR:OH	1:s:286:ASP:OD2	2.28	0.52
1:c:488:ALA:O	1:c:492:THR:HG23	2.09	0.52
1:d:550:THR:HG23	1:d:602:TYR:OH	2.09	0.52
1:f:332:GLN:HG2	1:f:395:MET:HG2	1.92	0.52
1:h:332:GLN:HG2	1:h:395:MET:HG2	1.92	0.52
1:l:332:GLN:HG2	1:l:395:MET:HG2	1.92	0.52
1:t:286:ASP:OD2	1:6:390:TYR:OH	2.28	0.52
1:w:550:THR:HG23	1:w:602:TYR:OH	2.09	0.52
1:x:435:LEU:HD11	1:y:624:MET:HE3	1.90	0.52
1:y:432:ASP:HB2	1:y:453:LEU:HA	1.91	0.52
1:z:332:GLN:HG2	1:z:395:MET:HG2	1.92	0.52
1:z:432:ASP:HB2	1:z:453:LEU:HA	1.91	0.52
1:1:332:GLN:HG2	1:1:395:MET:HG2	1.92	0.52
1:7:332:GLN:HG2	1:7:395:MET:HG2	1.92	0.52
1:7:550:THR:HG23	1:7:602:TYR:OH	2.09	0.52
1:8:475:TRP:HB2	1:8:523:LEU:HD13	1.90	0.52
1:B:332:GLN:HG2	1:B:395:MET:HG2	1.92	0.51
1:F:624:MET:HE3	1:Q:435:LEU:HD11	1.90	0.51
1:L:432:ASP:HB2	1:L:453:LEU:HA	1.91	0.51
1:M:332:GLN:HG2	1:M:395:MET:HG2	1.92	0.51
1:Q:214:ALA:H	1:S:400:ASN:HD21	1.57	0.51
1:Q:288:GLN:NE2	1:Q:689:TYR:O	2.35	0.51
1:Y:214:ALA:H	1:4:400:ASN:HD21	1.58	0.51
1:Z:475:TRP:HB2	1:Z:523:LEU:HD13	1.90	0.51
1:b:332:GLN:HG2	1:b:395:MET:HG2	1.92	0.51
1:m:550:THR:HG23	1:m:602:TYR:OH	2.09	0.51
1:n:390:TYR:OH	1:r:286:ASP:OD2	2.28	0.51
1:n:550:THR:HG23	1:n:602:TYR:OH	2.09	0.51
1:p:550:THR:HG23	1:p:602:TYR:OH	2.09	0.51
1:q:227:ASP:OD1	1:q:228:ARG:N	2.42	0.51
1:r:332:GLN:HG2	1:r:395:MET:HG2	1.92	0.51
1:t:228:ARG:NH1	1:t:672:GLU:OE2	2.35	0.51
1:x:288:GLN:NE2	1:x:689:TYR:O	2.35	0.51
1:z:232:LYS:HG2	1:z:670:GLU:HB3	1.91	0.51
1:1:550:THR:HG23	1:1:602:TYR:OH	2.09	0.51
1:A:292:ASN:ND2	1:A:689:TYR:H	2.05	0.51
1:C:420:SER:HB2	1:C:721:THR:HG22	1.90	0.51
1:H:722:ARG:NE	1:W:613:GLU:HG2	2.24	0.51
1:R:232:LYS:HG2	1:R:670:GLU:HB3	1.91	0.51
1:R:475:TRP:HB2	1:R:523:LEU:HD13	1.90	0.51
1:U:286:ASP:OD2	1:e:390:TYR:OH	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:432:ASP:HB2	1:W:453:LEU:HA	1.91	0.51
1:X:232:LYS:HG2	1:X:670:GLU:HB3	1.91	0.51
1:Z:228:ARG:NH1	1:Z:672:GLU:OE2	2.35	0.51
1:b:232:LYS:HG2	1:b:670:GLU:HB3	1.91	0.51
1:g:420:SER:HB2	1:g:721:THR:HG22	1.90	0.51
1:o:232:LYS:HG2	1:o:670:GLU:HB3	1.91	0.51
1:q:432:ASP:HB2	1:q:453:LEU:HA	1.91	0.51
1:q:475:TRP:HB2	1:q:523:LEU:HD13	1.90	0.51
1:u:328:THR:O	1:u:397:ARG:NE	2.23	0.51
1:z:550:THR:HG23	1:z:602:TYR:OH	2.09	0.51
1:6:432:ASP:HB2	1:6:453:LEU:HA	1.91	0.51
1:8:292:ASN:ND2	1:8:689:TYR:H	2.05	0.51
1:A:400:ASN:HD21	1:B:214:ALA:H	1.58	0.51
1:C:476:ASN:OD1	1:C:520:THR:OG1	2.26	0.51
1:E:550:THR:HG23	1:E:602:TYR:OH	2.09	0.51
1:I:328:THR:O	1:I:397:ARG:NE	2.23	0.51
1:L:550:THR:HG23	1:L:602:TYR:OH	2.09	0.51
1:Q:232:LYS:HG2	1:Q:670:GLU:HB3	1.91	0.51
1:R:402:PHE:HE2	1:R:636:MET:HE2	1.76	0.51
1:R:432:ASP:HB2	1:R:453:LEU:HA	1.91	0.51
1:V:550:THR:HG23	1:V:602:TYR:OH	2.09	0.51
1:k:328:THR:O	1:k:397:ARG:NE	2.23	0.51
1:k:390:TYR:OH	1:w:286:ASP:OD2	2.28	0.51
1:o:286:ASP:OD2	1:7:390:TYR:OH	2.29	0.51
1:p:286:ASP:OD2	1:q:390:TYR:OH	2.28	0.51
1:q:232:LYS:HG2	1:q:670:GLU:HB3	1.91	0.51
1:t:550:THR:HG23	1:t:602:TYR:OH	2.09	0.51
1:A:390:TYR:OH	1:B:286:ASP:OD2	2.29	0.51
1:B:550:THR:HG23	1:B:602:TYR:OH	2.09	0.51
1:D:390:TYR:OH	1:E:286:ASP:OD2	2.28	0.51
1:G:228:ARG:NH1	1:G:672:GLU:OE2	2.35	0.51
1:G:550:THR:HG23	1:G:602:TYR:OH	2.09	0.51
1:M:432:ASP:HB2	1:M:453:LEU:HA	1.91	0.51
1:P:476:ASN:OD1	1:P:520:THR:OG1	2.26	0.51
1:T:286:ASP:OD2	1:U:390:TYR:OH	2.28	0.51
1:X:332:GLN:HG2	1:X:395:MET:HG2	1.92	0.51
1:Z:332:GLN:HG2	1:Z:395:MET:HG2	1.92	0.51
1:b:402:PHE:HE2	1:b:636:MET:HE2	1.76	0.51
1:d:332:GLN:HG2	1:d:395:MET:HG2	1.92	0.51
1:f:232:LYS:HG2	1:f:670:GLU:HB3	1.91	0.51
1:f:402:PHE:HE2	1:f:636:MET:HE2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:476:ASN:OD1	1:j:520:THR:OG1	2.26	0.51
1:m:292:ASN:ND2	1:m:689:TYR:H	2.05	0.51
1:q:402:PHE:HE2	1:q:636:MET:HE2	1.76	0.51
1:v:292:ASN:ND2	1:v:689:TYR:H	2.05	0.51
1:x:232:LYS:HG2	1:x:670:GLU:HB3	1.91	0.51
1:3:228:ARG:NH1	1:3:672:GLU:OE2	2.35	0.51
1:6:332:GLN:HG2	1:6:395:MET:HG2	1.92	0.51
1:B:402:PHE:HE2	1:B:636:MET:HE2	1.76	0.51
1:I:292:ASN:ND2	1:I:689:TYR:H	2.05	0.51
1:J:328:THR:O	1:J:397:ARG:NE	2.23	0.51
1:N:286:ASP:OD2	1:m:390:TYR:OH	2.28	0.51
1:Q:286:ASP:OD2	1:S:390:TYR:OH	2.28	0.51
1:Q:332:GLN:HG2	1:Q:395:MET:HG2	1.92	0.51
1:R:390:TYR:OH	1:V:286:ASP:OD2	2.28	0.51
1:R:400:ASN:HD21	1:V:214:ALA:H	1.58	0.51
1:S:232:LYS:HG2	1:S:670:GLU:HB3	1.91	0.51
1:T:390:TYR:OH	1:i:286:ASP:OD2	2.28	0.51
1:V:402:PHE:HE2	1:V:636:MET:HE2	1.76	0.51
1:W:332:GLN:HG2	1:W:395:MET:HG2	1.92	0.51
1:c:332:GLN:HG2	1:c:395:MET:HG2	1.92	0.51
1:e:332:GLN:HG2	1:e:395:MET:HG2	1.92	0.51
1:m:286:ASP:OD2	1:s:390:TYR:OH	2.28	0.51
1:n:332:GLN:HG2	1:n:395:MET:HG2	1.92	0.51
1:o:332:GLN:HG2	1:o:395:MET:HG2	1.92	0.51
1:p:402:PHE:HE2	1:p:636:MET:HE2	1.76	0.51
1:r:390:TYR:OH	1:x:286:ASP:OD2	2.28	0.51
1:v:286:ASP:OD2	1:w:390:TYR:OH	2.28	0.51
1:x:432:ASP:HB2	1:x:453:LEU:HA	1.91	0.51
1:3:232:LYS:HG2	1:3:670:GLU:HB3	1.91	0.51
1:8:332:GLN:HG2	1:8:395:MET:HG2	1.92	0.51
1:A:286:ASP:OD2	1:E:390:TYR:OH	2.28	0.51
1:A:332:GLN:HG2	1:A:395:MET:HG2	1.92	0.51
1:D:328:THR:O	1:D:397:ARG:NE	2.23	0.51
1:D:402:PHE:HE2	1:D:636:MET:HE2	1.76	0.51
1:L:402:PHE:HE2	1:L:636:MET:HE2	1.76	0.51
1:M:390:TYR:OH	1:c:286:ASP:OD2	2.28	0.51
1:M:550:THR:HG23	1:M:602:TYR:OH	2.09	0.51
1:N:276:ASN:O	1:N:277:ARG:HG3	2.11	0.51
1:O:276:ASN:O	1:O:277:ARG:HG3	2.11	0.51
1:Q:432:ASP:HB2	1:Q:453:LEU:HA	1.91	0.51
1:T:292:ASN:ND2	1:T:689:TYR:H	2.05	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:400:ASN:HD21	1:W:214:ALA:H	1.57	0.51
1:X:402:PHE:HE2	1:X:636:MET:HE2	1.76	0.51
1:Y:292:ASN:ND2	1:Y:689:TYR:H	2.05	0.51
1:Z:292:ASN:ND2	1:Z:689:TYR:H	2.05	0.51
1:a:232:LYS:HG2	1:a:670:GLU:HB3	1.91	0.51
1:e:286:ASP:OD2	1:h:390:TYR:OH	2.28	0.51
1:h:276:ASN:O	1:h:277:ARG:HG3	2.11	0.51
1:h:432:ASP:HB2	1:h:453:LEU:HA	1.91	0.51
1:l:276:ASN:O	1:l:277:ARG:HG3	2.11	0.51
1:l:432:ASP:HB2	1:l:453:LEU:HA	1.91	0.51
1:o:402:PHE:HE2	1:o:636:MET:HE2	1.76	0.51
1:p:214:ALA:H	1:q:400:ASN:HD21	1.58	0.51
1:p:400:ASN:HD21	1:6:214:ALA:H	1.57	0.51
1:r:232:LYS:HG2	1:r:670:GLU:HB3	1.91	0.51
1:v:332:GLN:HG2	1:v:395:MET:HG2	1.92	0.51
1:w:402:PHE:HE2	1:w:636:MET:HE2	1.76	0.51
1:x:402:PHE:HE2	1:x:636:MET:HE2	1.76	0.51
1:z:402:PHE:HE2	1:z:636:MET:HE2	1.76	0.51
1:6:328:THR:O	1:6:397:ARG:NE	2.23	0.51
1:B:390:TYR:OH	1:C:286:ASP:OD2	2.28	0.51
1:M:276:ASN:O	1:M:277:ARG:HG3	2.11	0.51
1:N:332:GLN:HG2	1:N:395:MET:HG2	1.92	0.51
1:O:432:ASP:HB2	1:O:453:LEU:HA	1.91	0.51
1:Q:402:PHE:HE2	1:Q:636:MET:HE2	1.76	0.51
1:R:332:GLN:HG2	1:R:395:MET:HG2	1.92	0.51
1:a:228:ARG:NH1	1:a:672:GLU:OE2	2.35	0.51
1:e:214:ALA:H	1:h:400:ASN:HD21	1.58	0.51
1:h:550:THR:HG23	1:h:602:TYR:OH	2.09	0.51
1:i:276:ASN:O	1:i:277:ARG:HG3	2.11	0.51
1:i:332:GLN:HG2	1:i:395:MET:HG2	1.92	0.51
1:l:390:TYR:OH	1:n:286:ASP:OD2	2.28	0.51
1:q:332:GLN:HG2	1:q:395:MET:HG2	1.92	0.51
1:x:332:GLN:HG2	1:x:395:MET:HG2	1.92	0.51
1:y:402:PHE:HE2	1:y:636:MET:HE2	1.76	0.51
1:1:402:PHE:HE2	1:1:636:MET:HE2	1.76	0.51
1:8:228:ARG:NH1	1:8:672:GLU:OE2	2.35	0.51
1:D:276:ASN:O	1:D:277:ARG:HG3	2.11	0.51
1:E:402:PHE:HE2	1:E:636:MET:HE2	1.76	0.51
1:F:402:PHE:HE2	1:F:636:MET:HE2	1.76	0.51
1:K:276:ASN:O	1:K:277:ARG:HG3	2.11	0.51
1:O:390:TYR:OH	1:d:286:ASP:OD2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:276:ASN:O	1:P:277:ARG:HG3	2.11	0.51
1:X:390:TYR:OH	1:f:286:ASP:OD2	2.28	0.51
1:b:286:ASP:OD2	1:o:390:TYR:OH	2.28	0.51
1:j:276:ASN:O	1:j:277:ARG:HG3	2.11	0.51
1:j:402:PHE:HE2	1:j:636:MET:HE2	1.76	0.51
1:k:276:ASN:O	1:k:277:ARG:HG3	2.11	0.51
1:k:400:ASN:HD21	1:w:214:ALA:H	1.57	0.51
1:k:402:PHE:HE2	1:k:636:MET:HE2	1.76	0.51
1:4:276:ASN:O	1:4:277:ARG:HG3	2.11	0.51
1:6:276:ASN:O	1:6:277:ARG:HG3	2.11	0.51
1:7:228:ARG:NH1	1:7:672:GLU:OE2	2.35	0.51
1:7:432:ASP:HB2	1:7:453:LEU:HA	1.91	0.51
1:8:402:PHE:HE2	1:8:636:MET:HE2	1.76	0.51
1:C:276:ASN:O	1:C:277:ARG:HG3	2.11	0.51
1:M:292:ASN:ND2	1:M:689:TYR:H	2.05	0.51
1:M:400:ASN:HD21	1:c:214:ALA:H	1.58	0.51
1:P:402:PHE:HE2	1:P:636:MET:HE2	1.76	0.51
1:W:276:ASN:O	1:W:277:ARG:HG3	2.11	0.51
1:Z:402:PHE:HE2	1:Z:636:MET:HE2	1.76	0.51
1:c:276:ASN:O	1:c:277:ARG:HG3	2.11	0.51
1:n:273:PHE:HE1	1:n:363:LEU:HD11	1.76	0.51
1:v:402:PHE:HE2	1:v:636:MET:HE2	1.76	0.51
1:5:332:GLN:HG2	1:5:395:MET:HG2	1.92	0.51
1:7:292:ASN:ND2	1:7:689:TYR:H	2.05	0.51
1:A:402:PHE:HE2	1:A:636:MET:HE2	1.76	0.51
1:C:332:GLN:HG2	1:C:395:MET:HG2	1.92	0.51
1:G:332:GLN:HG2	1:G:395:MET:HG2	1.92	0.51
1:I:232:LYS:HG2	1:I:670:GLU:HB3	1.91	0.51
1:K:273:PHE:HE1	1:K:363:LEU:HD11	1.76	0.51
1:K:286:ASP:OD2	1:L:390:TYR:OH	2.28	0.51
1:T:228:ARG:NH1	1:T:672:GLU:OE2	2.35	0.51
1:Y:432:ASP:HB2	1:Y:453:LEU:HA	1.91	0.51
1:Z:276:ASN:O	1:Z:277:ARG:HG3	2.11	0.51
1:b:273:PHE:HE1	1:b:363:LEU:HD11	1.76	0.51
1:d:273:PHE:HE1	1:d:363:LEU:HD11	1.76	0.51
1:e:276:ASN:O	1:e:277:ARG:HG3	2.11	0.51
1:f:273:PHE:HE1	1:f:363:LEU:HD11	1.76	0.51
1:g:276:ASN:O	1:g:277:ARG:HG3	2.11	0.51
1:g:400:ASN:HD21	1:k:214:ALA:H	1.58	0.51
1:h:292:ASN:ND2	1:h:689:TYR:H	2.05	0.51
1:i:273:PHE:HE1	1:i:363:LEU:HD11	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:390:TYR:OH	1:4:286:ASP:OD2	2.28	0.51
1:C:400:ASN:HD21	1:D:214:ALA:H	1.58	0.50
1:D:400:ASN:HD21	1:E:214:ALA:H	1.58	0.50
1:F:400:ASN:HD21	1:R:214:ALA:H	1.58	0.50
1:H:332:GLN:HG2	1:H:395:MET:HG2	1.92	0.50
1:M:273:PHE:HE1	1:M:363:LEU:HD11	1.76	0.50
1:O:286:ASP:OD2	1:P:390:TYR:OH	2.28	0.50
1:P:214:ALA:H	1:Q:400:ASN:HD21	1.57	0.50
1:W:328:THR:O	1:W:397:ARG:NE	2.23	0.50
1:a:332:GLN:HG2	1:a:395:MET:HG2	1.92	0.50
1:g:286:ASP:OD2	1:l:390:TYR:OH	2.28	0.50
1:g:332:GLN:HG2	1:g:395:MET:HG2	1.92	0.50
1:h:273:PHE:HE1	1:h:363:LEU:HD11	1.77	0.50
1:j:390:TYR:OH	1:l:286:ASP:OD2	2.28	0.50
1:q:214:ALA:H	1:y:400:ASN:HD21	1.58	0.50
1:r:273:PHE:HE1	1:r:363:LEU:HD11	1.76	0.50
1:t:332:GLN:HG2	1:t:395:MET:HG2	1.92	0.50
1:u:276:ASN:O	1:u:277:ARG:HG3	2.11	0.50
1:5:476:ASN:OD1	1:5:520:THR:OG1	2.26	0.50
1:8:276:ASN:O	1:8:277:ARG:HG3	2.11	0.50
1:I:276:ASN:O	1:I:277:ARG:HG3	2.11	0.50
1:J:273:PHE:HE1	1:J:363:LEU:HD11	1.76	0.50
1:J:332:GLN:HG2	1:J:395:MET:HG2	1.92	0.50
1:M:402:PHE:HE2	1:M:636:MET:HE2	1.76	0.50
1:N:273:PHE:HE1	1:N:363:LEU:HD11	1.77	0.50
1:O:228:ARG:NH1	1:O:672:GLU:OE2	2.35	0.50
1:Y:228:ARG:NH1	1:Y:672:GLU:OE2	2.35	0.50
1:d:276:ASN:O	1:d:277:ARG:HG3	2.11	0.50
1:h:402:PHE:HE2	1:h:636:MET:HE2	1.76	0.50
1:j:214:ALA:H	1:x:400:ASN:HD21	1.57	0.50
1:n:402:PHE:HE2	1:n:636:MET:HE2	1.76	0.50
1:r:328:THR:O	1:r:397:ARG:NE	2.23	0.50
1:s:332:GLN:HG2	1:s:395:MET:HG2	1.92	0.50
1:u:232:LYS:HG2	1:u:670:GLU:HB3	1.91	0.50
1:u:273:PHE:HE1	1:u:363:LEU:HD11	1.76	0.50
1:3:276:ASN:O	1:3:277:ARG:HG3	2.11	0.50
1:3:332:GLN:HG2	1:3:395:MET:HG2	1.92	0.50
1:4:273:PHE:HE1	1:4:363:LEU:HD11	1.76	0.50
1:C:273:PHE:HE1	1:C:363:LEU:HD11	1.76	0.50
1:F:276:ASN:O	1:F:277:ARG:HG3	2.11	0.50
1:F:286:ASP:OD2	1:G:390:TYR:OH	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:276:ASN:O	1:G:277:ARG:HG3	2.11	0.50
1:H:402:PHE:HE2	1:H:636:MET:HE2	1.76	0.50
1:H:476:ASN:OD1	1:H:520:THR:OG1	2.26	0.50
1:I:273:PHE:HE1	1:I:363:LEU:HD11	1.77	0.50
1:N:402:PHE:HE2	1:N:636:MET:HE2	1.76	0.50
1:Q:273:PHE:HE1	1:Q:363:LEU:HD11	1.76	0.50
1:S:273:PHE:HE1	1:S:363:LEU:HD11	1.76	0.50
1:U:332:GLN:HG2	1:U:395:MET:HG2	1.92	0.50
1:g:273:PHE:HE1	1:g:363:LEU:HD11	1.76	0.50
1:n:276:ASN:O	1:n:277:ARG:HG3	2.11	0.50
1:t:390:TYR:OH	1:y:286:ASP:OD2	2.28	0.50
1:x:273:PHE:HE1	1:x:363:LEU:HD11	1.77	0.50
1:2:273:PHE:HE1	1:2:363:LEU:HD11	1.76	0.50
1:2:332:GLN:HG2	1:2:395:MET:HG2	1.92	0.50
1:B:276:ASN:O	1:B:277:ARG:HG3	2.11	0.50
1:D:292:ASN:ND2	1:D:689:TYR:H	2.05	0.50
1:E:273:PHE:HE1	1:E:363:LEU:HD11	1.76	0.50
1:G:232:LYS:HG2	1:G:670:GLU:HB3	1.91	0.50
1:G:476:ASN:OD1	1:G:520:THR:OG1	2.26	0.50
1:G:722:ARG:NE	1:I:613:GLU:HG2	2.27	0.50
1:S:276:ASN:O	1:S:277:ARG:HG3	2.11	0.50
1:T:402:PHE:HE2	1:T:636:MET:HE2	1.76	0.50
1:X:400:ASN:HD21	1:f:214:ALA:H	1.58	0.50
1:X:613:GLU:HG2	1:e:722:ARG:NE	2.27	0.50
1:a:276:ASN:O	1:a:277:ARG:HG3	2.11	0.50
1:b:214:ALA:H	1:o:400:ASN:HD21	1.58	0.50
1:c:722:ARG:NE	1:o:613:GLU:HG2	2.27	0.50
1:d:402:PHE:HE2	1:d:636:MET:HE2	1.76	0.50
1:i:402:PHE:HE2	1:i:636:MET:HE2	1.76	0.50
1:m:402:PHE:HE2	1:m:636:MET:HE2	1.76	0.50
1:n:400:ASN:HD21	1:r:214:ALA:H	1.58	0.50
1:r:276:ASN:O	1:r:277:ARG:HG3	2.11	0.50
1:r:288:GLN:NE2	1:r:689:TYR:O	2.35	0.50
1:t:232:LYS:HG2	1:t:670:GLU:HB3	1.91	0.50
1:t:276:ASN:O	1:t:277:ARG:HG3	2.11	0.50
1:t:722:ARG:NE	1:u:613:GLU:HG2	2.27	0.50
1:y:276:ASN:O	1:y:277:ARG:HG3	2.11	0.50
1:5:402:PHE:HE2	1:5:636:MET:HE2	1.76	0.50
1:A:273:PHE:HE1	1:A:363:LEU:HD11	1.76	0.50
1:B:239:LEU:HD23	1:B:240:PRO:O	2.12	0.50
1:C:613:GLU:HG2	1:M:722:ARG:NE	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:332:GLN:HG2	1:E:395:MET:HG2	1.92	0.50
1:F:239:LEU:HD23	1:F:240:PRO:O	2.12	0.50
1:J:286:ASP:OD2	1:a:390:TYR:OH	2.28	0.50
1:O:613:GLU:HG2	1:n:722:ARG:NE	2.27	0.50
1:R:276:ASN:O	1:R:277:ARG:HG3	2.11	0.50
1:S:214:ALA:H	1:d:400:ASN:HD21	1.58	0.50
1:S:402:PHE:HE2	1:S:636:MET:HE2	1.76	0.50
1:V:273:PHE:HE1	1:V:363:LEU:HD11	1.76	0.50
1:W:239:LEU:HD23	1:W:240:PRO:O	2.12	0.50
1:b:276:ASN:O	1:b:277:ARG:HG3	2.11	0.50
1:d:722:ARG:NE	1:l:613:GLU:HG2	2.27	0.50
1:l:228:ARG:NH1	1:l:672:GLU:OE2	2.35	0.50
1:m:228:ARG:NH1	1:m:672:GLU:OE2	2.35	0.50
1:m:276:ASN:O	1:m:277:ARG:HG3	2.11	0.50
1:r:722:ARG:NE	1:s:613:GLU:HG2	2.27	0.50
1:u:402:PHE:HE2	1:u:636:MET:HE2	1.76	0.50
1:v:273:PHE:HE1	1:v:363:LEU:HD11	1.76	0.50
1:w:276:ASN:O	1:w:277:ARG:HG3	2.11	0.50
1:w:332:GLN:HG2	1:w:395:MET:HG2	1.92	0.50
1:y:239:LEU:HD23	1:y:240:PRO:O	2.12	0.50
1:y:273:PHE:HE1	1:y:363:LEU:HD11	1.76	0.50
1:z:239:LEU:HD12	1:z:363:LEU:HD12	1.94	0.50
1:2:286:ASP:OD2	1:3:390:TYR:OH	2.28	0.50
1:6:239:LEU:HD23	1:6:240:PRO:O	2.12	0.50
1:6:402:PHE:HE2	1:6:636:MET:HE2	1.76	0.50
1:A:239:LEU:HD23	1:A:240:PRO:O	2.12	0.50
1:E:276:ASN:O	1:E:277:ARG:HG3	2.11	0.50
1:F:273:PHE:HE1	1:F:363:LEU:HD11	1.76	0.50
1:H:589:GLU:OE1	1:Y:591:VAL:HG22	2.11	0.50
1:K:214:ALA:H	1:L:400:ASN:HD21	1.58	0.50
1:L:239:LEU:HD12	1:L:363:LEU:HD12	1.94	0.50
1:U:239:LEU:HD23	1:U:240:PRO:O	2.12	0.50
1:V:613:GLU:HG2	1:X:722:ARG:NE	2.27	0.50
1:W:402:PHE:HE2	1:W:636:MET:HE2	1.76	0.50
1:X:276:ASN:O	1:X:277:ARG:HG3	2.11	0.50
1:f:276:ASN:O	1:f:277:ARG:HG3	2.11	0.50
1:j:228:ARG:NH1	1:j:672:GLU:OE2	2.35	0.50
1:k:292:ASN:ND2	1:k:689:TYR:H	2.05	0.50
1:m:214:ALA:H	1:s:400:ASN:HD21	1.58	0.50
1:o:276:ASN:O	1:o:277:ARG:HG3	2.11	0.50
1:p:273:PHE:HE1	1:p:363:LEU:HD11	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:292:ASN:ND2	1:p:689:TYR:H	2.05	0.50
1:q:276:ASN:O	1:q:277:ARG:HG3	2.11	0.50
1:s:239:LEU:HD23	1:s:240:PRO:O	2.12	0.50
1:t:476:ASN:OD1	1:t:520:THR:OG1	2.26	0.50
1:v:239:LEU:HD23	1:v:240:PRO:O	2.12	0.50
1:w:273:PHE:HE1	1:w:363:LEU:HD11	1.76	0.50
1:z:400:ASN:HD21	1:4:214:ALA:H	1.58	0.50
1:1:239:LEU:HD23	1:1:240:PRO:O	2.12	0.50
1:1:276:ASN:O	1:1:277:ARG:HG3	2.11	0.50
1:4:402:PHE:HE2	1:4:636:MET:HE2	1.76	0.50
1:7:402:PHE:HE2	1:7:636:MET:HE2	1.76	0.50
1:8:239:LEU:HD23	1:8:240:PRO:O	2.12	0.50
1:G:273:PHE:HE1	1:G:363:LEU:HD11	1.76	0.50
1:I:402:PHE:HE2	1:I:636:MET:HE2	1.76	0.50
1:M:239:LEU:HD23	1:M:240:PRO:O	2.12	0.50
1:P:228:ARG:NH1	1:P:672:GLU:OE2	2.35	0.50
1:S:328:THR:O	1:S:397:ARG:NE	2.23	0.50
1:S:722:ARG:NE	1:U:613:GLU:HG2	2.27	0.50
1:T:276:ASN:O	1:T:277:ARG:HG3	2.11	0.50
1:W:273:PHE:HE1	1:W:363:LEU:HD11	1.77	0.50
1:X:273:PHE:HE1	1:X:363:LEU:HD11	1.76	0.50
1:Y:276:ASN:O	1:Y:277:ARG:HG3	2.11	0.50
1:Z:239:LEU:HD23	1:Z:240:PRO:O	2.12	0.50
1:g:613:GLU:HG2	1:h:722:ARG:NE	2.27	0.50
1:o:273:PHE:HE1	1:o:363:LEU:HD11	1.76	0.50
1:o:722:ARG:NE	1:p:613:GLU:HG2	2.27	0.50
1:r:239:LEU:HD12	1:r:363:LEU:HD12	1.94	0.50
1:r:402:PHE:HE2	1:r:636:MET:HE2	1.76	0.50
1:s:276:ASN:O	1:s:277:ARG:HG3	2.11	0.50
1:t:273:PHE:HE1	1:t:363:LEU:HD11	1.76	0.50
1:6:273:PHE:HE1	1:6:363:LEU:HD11	1.76	0.50
1:A:279:HIS:HB3	1:A:603:LEU:HG	1.94	0.50
1:B:239:LEU:HD12	1:B:363:LEU:HD12	1.94	0.50
1:H:214:ALA:H	1:I:400:ASN:HD21	1.59	0.50
1:I:239:LEU:HD23	1:I:240:PRO:O	2.12	0.50
1:K:239:LEU:HD23	1:K:240:PRO:O	2.12	0.50
1:K:402:PHE:HE2	1:K:636:MET:HE2	1.76	0.50
1:L:476:ASN:OD1	1:L:520:THR:OG1	2.26	0.50
1:O:273:PHE:HE1	1:O:363:LEU:HD11	1.76	0.50
1:S:239:LEU:HD12	1:S:363:LEU:HD12	1.94	0.50
1:S:288:GLN:NE2	1:S:689:TYR:O	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:214:ALA:H	1:U:400:ASN:HD21	1.58	0.50
1:V:332:GLN:HG2	1:V:395:MET:HG2	1.92	0.50
1:Y:402:PHE:HE2	1:Y:636:MET:HE2	1.76	0.50
1:Z:239:LEU:HD12	1:Z:363:LEU:HD12	1.94	0.50
1:Z:273:PHE:HE1	1:Z:363:LEU:HD11	1.76	0.50
1:c:303:ARG:NH1	1:c:670:GLU:OE2	2.43	0.50
1:d:591:VAL:HG22	1:l:589:GLU:OE1	2.12	0.50
1:f:228:ARG:NH1	1:f:672:GLU:OE2	2.35	0.50
1:h:239:LEU:HD23	1:h:240:PRO:O	2.12	0.50
1:p:276:ASN:O	1:p:277:ARG:HG3	2.11	0.50
1:u:239:LEU:HD23	1:u:240:PRO:O	2.12	0.50
1:u:332:GLN:HG2	1:u:395:MET:HG2	1.92	0.50
1:z:476:ASN:OD1	1:z:520:THR:OG1	2.26	0.50
1:1:239:LEU:HD12	1:1:363:LEU:HD12	1.94	0.50
1:3:273:PHE:HE1	1:3:363:LEU:HD11	1.76	0.50
1:A:314:VAL:HG21	1:E:646:ASN:HD22	1.77	0.50
1:O:239:LEU:HD23	1:O:240:PRO:O	2.12	0.50
1:O:279:HIS:HB3	1:O:603:LEU:HG	1.94	0.50
1:O:589:GLU:OE1	1:n:591:VAL:HG22	2.12	0.50
1:Q:239:LEU:HD23	1:Q:240:PRO:O	2.12	0.50
1:U:276:ASN:O	1:U:277:ARG:HG3	2.11	0.50
1:W:279:HIS:HB3	1:W:603:LEU:HG	1.94	0.50
1:W:303:ARG:NH1	1:W:670:GLU:OE2	2.43	0.50
1:a:273:PHE:HE1	1:a:363:LEU:HD11	1.76	0.50
1:e:303:ARG:NH1	1:e:670:GLU:OE2	2.43	0.50
1:f:722:ARG:NE	1:h:613:GLU:HG2	2.27	0.50
1:k:239:LEU:HD12	1:k:363:LEU:HD12	1.94	0.50
1:l:279:HIS:HB3	1:l:603:LEU:HG	1.94	0.50
1:m:476:ASN:OD1	1:m:520:THR:OG1	2.26	0.50
1:o:239:LEU:HD12	1:o:363:LEU:HD12	1.94	0.50
1:p:239:LEU:HD12	1:p:363:LEU:HD12	1.94	0.50
1:p:328:THR:O	1:p:397:ARG:NE	2.23	0.50
1:v:279:HIS:HB3	1:v:603:LEU:HG	1.94	0.50
1:x:239:LEU:HD23	1:x:240:PRO:O	2.12	0.50
1:z:276:ASN:O	1:z:277:ARG:HG3	2.11	0.50
1:2:402:PHE:HE2	1:2:636:MET:HE2	1.76	0.50
1:4:239:LEU:HD23	1:4:240:PRO:O	2.12	0.50
1:6:279:HIS:HB3	1:6:603:LEU:HG	1.94	0.50
1:6:303:ARG:NH1	1:6:670:GLU:OE2	2.43	0.50
1:7:276:ASN:O	1:7:277:ARG:HG3	2.11	0.50
1:7:279:HIS:HB3	1:7:603:LEU:HG	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:239:LEU:HD12	1:8:363:LEU:HD12	1.94	0.50
1:8:273:PHE:HE1	1:8:363:LEU:HD11	1.77	0.50
1:B:722:ARG:NE	1:J:613:GLU:HG2	2.26	0.49
1:D:239:LEU:HD12	1:D:363:LEU:HD12	1.94	0.49
1:D:613:GLU:HG2	1:P:722:ARG:NE	2.27	0.49
1:D:722:ARG:NE	1:N:613:GLU:HG2	2.27	0.49
1:J:239:LEU:HD23	1:J:240:PRO:O	2.12	0.49
1:J:402:PHE:HE2	1:J:636:MET:HE2	1.76	0.49
1:K:646:ASN:HD22	1:7:314:VAL:HG21	1.78	0.49
1:L:276:ASN:O	1:L:277:ARG:HG3	2.11	0.49
1:M:613:GLU:HG2	1:b:722:ARG:NE	2.27	0.49
1:P:273:PHE:HE1	1:P:363:LEU:HD11	1.76	0.49
1:Q:239:LEU:HD12	1:Q:363:LEU:HD12	1.94	0.49
1:V:239:LEU:HD23	1:V:240:PRO:O	2.12	0.49
1:V:239:LEU:HD12	1:V:363:LEU:HD12	1.94	0.49
1:V:276:ASN:O	1:V:277:ARG:HG3	2.11	0.49
1:V:292:ASN:ND2	1:V:689:TYR:H	2.05	0.49
1:a:239:LEU:HD23	1:a:240:PRO:O	2.12	0.49
1:b:292:ASN:ND2	1:b:689:TYR:H	2.05	0.49
1:f:279:HIS:HB3	1:f:603:LEU:HG	1.94	0.49
1:f:390:TYR:OH	1:z:286:ASP:OD2	2.28	0.49
1:l:239:LEU:HD23	1:l:240:PRO:O	2.12	0.49
1:p:239:LEU:HD23	1:p:240:PRO:O	2.12	0.49
1:q:613:GLU:HG2	1:s:722:ARG:NE	2.27	0.49
1:s:273:PHE:HE1	1:s:363:LEU:HD11	1.76	0.49
1:t:402:PHE:HE2	1:t:636:MET:HE2	1.76	0.49
1:x:239:LEU:HD12	1:x:363:LEU:HD12	1.94	0.49
1:2:239:LEU:HD23	1:2:240:PRO:O	2.12	0.49
1:2:314:VAL:HG21	1:3:646:ASN:HD22	1.78	0.49
1:5:276:ASN:O	1:5:277:ARG:HG3	2.11	0.49
1:A:276:ASN:O	1:A:277:ARG:HG3	2.11	0.49
1:C:402:PHE:HE2	1:C:636:MET:HE2	1.76	0.49
1:H:276:ASN:O	1:H:277:ARG:HG3	2.11	0.49
1:I:279:HIS:HB3	1:I:603:LEU:HG	1.94	0.49
1:I:332:GLN:HG2	1:I:395:MET:HG2	1.92	0.49
1:J:276:ASN:O	1:J:277:ARG:HG3	2.11	0.49
1:L:286:ASP:OD2	1:b:390:TYR:OH	2.28	0.49
1:Q:279:HIS:HB3	1:Q:603:LEU:HG	1.94	0.49
1:R:613:GLU:HG2	1:U:722:ARG:NE	2.27	0.49
1:X:239:LEU:HD12	1:X:363:LEU:HD12	1.94	0.49
1:Y:279:HIS:HB3	1:Y:603:LEU:HG	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:279:HIS:HB3	1:b:603:LEU:HG	1.94	0.49
1:c:613:GLU:HG2	1:p:722:ARG:NE	2.27	0.49
1:d:239:LEU:HD12	1:d:363:LEU:HD12	1.94	0.49
1:g:402:PHE:HE2	1:g:636:MET:HE2	1.76	0.49
1:i:239:LEU:HD23	1:i:240:PRO:O	2.12	0.49
1:i:613:GLU:HG2	1:k:722:ARG:NE	2.27	0.49
1:j:273:PHE:HE1	1:j:363:LEU:HD11	1.76	0.49
1:j:722:ARG:NE	1:k:613:GLU:HG2	2.27	0.49
1:l:273:PHE:HE1	1:l:363:LEU:HD11	1.77	0.49
1:n:239:LEU:HD12	1:n:363:LEU:HD12	1.94	0.49
1:p:332:GLN:HG2	1:p:395:MET:HG2	1.92	0.49
1:u:279:HIS:HB3	1:u:603:LEU:HG	1.94	0.49
1:v:276:ASN:O	1:v:277:ARG:HG3	2.11	0.49
1:z:303:ARG:NH1	1:z:670:GLU:OE2	2.43	0.49
1:3:239:LEU:HD23	1:3:240:PRO:O	2.12	0.49
1:3:314:VAL:HG21	1:8:646:ASN:HD22	1.77	0.49
1:3:589:GLU:OE1	1:4:591:VAL:HG22	2.13	0.49
1:A:589:GLU:OE1	1:I:591:VAL:HG22	2.13	0.49
1:E:591:VAL:HG22	1:Q:589:GLU:OE1	2.13	0.49
1:E:613:GLU:HG2	1:F:722:ARG:NE	2.27	0.49
1:G:402:PHE:HE2	1:G:636:MET:HE2	1.76	0.49
1:I:314:VAL:HG21	1:J:646:ASN:HD22	1.78	0.49
1:J:279:HIS:HB3	1:J:603:LEU:HG	1.94	0.49
1:J:314:VAL:HG21	1:a:646:ASN:HD22	1.78	0.49
1:K:303:ARG:NH1	1:K:670:GLU:OE2	2.43	0.49
1:K:591:VAL:HG22	1:a:589:GLU:OE1	2.13	0.49
1:L:239:LEU:HD23	1:L:240:PRO:O	2.12	0.49
1:L:279:HIS:HB3	1:L:603:LEU:HG	1.94	0.49
1:N:239:LEU:HD23	1:N:240:PRO:O	2.12	0.49
1:O:402:PHE:HE2	1:O:636:MET:HE2	1.76	0.49
1:R:239:LEU:HD23	1:R:240:PRO:O	2.12	0.49
1:T:314:VAL:HG21	1:U:646:ASN:HD22	1.78	0.49
1:T:476:ASN:OD1	1:T:520:THR:OG1	2.26	0.49
1:U:273:PHE:HE1	1:U:363:LEU:HD11	1.76	0.49
1:V:722:ARG:NE	1:e:613:GLU:HG2	2.27	0.49
1:c:402:PHE:HE2	1:c:636:MET:HE2	1.76	0.49
1:e:239:LEU:HD23	1:e:240:PRO:O	2.12	0.49
1:f:239:LEU:HD23	1:f:240:PRO:O	2.12	0.49
1:g:589:GLU:OE1	1:h:591:VAL:HG22	2.13	0.49
1:l:402:PHE:HE2	1:l:636:MET:HE2	1.76	0.49
1:m:314:VAL:HG21	1:s:646:ASN:HD22	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:273:PHE:HE1	1:q:363:LEU:HD11	1.76	0.49
1:t:613:GLU:HG2	1:v:722:ARG:NE	2.27	0.49
1:u:591:VAL:HG22	1:v:589:GLU:OE1	2.13	0.49
1:x:279:HIS:HB3	1:x:603:LEU:HG	1.94	0.49
1:4:303:ARG:NH1	1:4:670:GLU:OE2	2.43	0.49
1:A:722:ARG:NE	1:G:613:GLU:HG2	2.27	0.49
1:C:589:GLU:OE1	1:M:591:VAL:HG22	2.13	0.49
1:H:459:ASN:OD1	1:H:459:ASN:N	2.46	0.49
1:K:279:HIS:HB3	1:K:603:LEU:HG	1.94	0.49
1:K:722:ARG:NE	1:a:613:GLU:HG2	2.27	0.49
1:L:303:ARG:NH1	1:L:670:GLU:OE2	2.43	0.49
1:N:328:THR:O	1:N:397:ARG:NE	2.23	0.49
1:P:332:GLN:HG2	1:P:395:MET:HG2	1.93	0.49
1:R:273:PHE:HE1	1:R:363:LEU:HD11	1.76	0.49
1:S:239:LEU:HD23	1:S:240:PRO:O	2.12	0.49
1:U:239:LEU:HD12	1:U:363:LEU:HD12	1.94	0.49
1:V:328:THR:O	1:V:397:ARG:NE	2.23	0.49
1:Z:646:ASN:HD22	1:a:314:VAL:HG21	1.78	0.49
1:b:228:ARG:NH1	1:b:672:GLU:OE2	2.35	0.49
1:b:239:LEU:HD23	1:b:240:PRO:O	2.12	0.49
1:c:239:LEU:HD23	1:c:240:PRO:O	2.12	0.49
1:j:239:LEU:HD23	1:j:240:PRO:O	2.12	0.49
1:u:314:VAL:HG21	1:2:646:ASN:HD22	1.78	0.49
1:w:591:VAL:HG22	1:x:589:GLU:OE1	2.13	0.49
1:x:276:ASN:O	1:x:277:ARG:HG3	2.11	0.49
1:z:239:LEU:HD23	1:z:240:PRO:O	2.12	0.49
1:z:279:HIS:HB3	1:z:603:LEU:HG	1.94	0.49
1:2:276:ASN:O	1:2:277:ARG:HG3	2.11	0.49
1:2:279:HIS:HB3	1:2:603:LEU:HG	1.94	0.49
1:3:239:LEU:HD12	1:3:363:LEU:HD12	1.94	0.49
1:3:613:GLU:HG2	1:4:722:ARG:NE	2.27	0.49
1:4:279:HIS:HB3	1:4:603:LEU:HG	1.94	0.49
1:5:459:ASN:OD1	1:5:459:ASN:N	2.46	0.49
1:6:239:LEU:HD12	1:6:363:LEU:HD12	1.94	0.49
1:7:239:LEU:HD23	1:7:240:PRO:O	2.12	0.49
1:D:332:GLN:HG2	1:D:395:MET:HG2	1.93	0.49
1:H:273:PHE:HE1	1:H:363:LEU:HD11	1.76	0.49
1:J:303:ARG:NH1	1:J:670:GLU:OE2	2.43	0.49
1:K:314:VAL:HG21	1:L:646:ASN:HD22	1.77	0.49
1:P:239:LEU:HD23	1:P:240:PRO:O	2.12	0.49
1:P:328:THR:O	1:P:397:ARG:NE	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:276:ASN:O	1:Q:277:ARG:HG3	2.11	0.49
1:T:273:PHE:HE1	1:T:363:LEU:HD11	1.76	0.49
1:V:646:ASN:HD22	1:W:314:VAL:HG21	1.78	0.49
1:W:239:LEU:HD12	1:W:363:LEU:HD12	1.94	0.49
1:X:239:LEU:HD23	1:X:240:PRO:O	2.12	0.49
1:Y:239:LEU:HD23	1:Y:240:PRO:O	2.12	0.49
1:a:239:LEU:HD12	1:a:363:LEU:HD12	1.94	0.49
1:e:402:PHE:HE2	1:e:636:MET:HE2	1.76	0.49
1:f:292:ASN:ND2	1:f:689:TYR:H	2.05	0.49
1:g:228:ARG:NH1	1:g:672:GLU:OE2	2.35	0.49
1:k:239:LEU:HD23	1:k:240:PRO:O	2.12	0.49
1:l:646:ASN:HD22	1:n:314:VAL:HG21	1.77	0.49
1:m:591:VAL:HG22	1:n:589:GLU:OE1	2.13	0.49
1:o:239:LEU:HD23	1:o:240:PRO:O	2.12	0.49
1:q:239:LEU:HD23	1:q:240:PRO:O	2.12	0.49
1:q:722:ARG:NE	1:r:613:GLU:HG2	2.27	0.49
1:r:239:LEU:HD23	1:r:240:PRO:O	2.12	0.49
1:s:239:LEU:HD12	1:s:363:LEU:HD12	1.94	0.49
1:v:314:VAL:HG21	1:w:646:ASN:HD22	1.77	0.49
1:w:613:GLU:HG2	1:y:722:ARG:NE	2.27	0.49
1:z:646:ASN:HD22	1:4:314:VAL:HG21	1.78	0.49
1:A:239:LEU:HD12	1:A:363:LEU:HD12	1.94	0.49
1:C:239:LEU:HD23	1:C:240:PRO:O	2.12	0.49
1:D:239:LEU:HD23	1:D:240:PRO:O	2.12	0.49
1:D:273:PHE:HE1	1:D:363:LEU:HD11	1.76	0.49
1:D:589:GLU:OE1	1:P:591:VAL:HG22	2.12	0.49
1:D:646:ASN:HD22	1:E:314:VAL:HG21	1.78	0.49
1:J:239:LEU:HD12	1:J:363:LEU:HD12	1.94	0.49
1:O:646:ASN:HD22	1:d:314:VAL:HG21	1.77	0.49
1:Q:476:ASN:OD1	1:Q:520:THR:OG1	2.26	0.49
1:R:239:LEU:HD12	1:R:363:LEU:HD12	1.94	0.49
1:R:722:ARG:NE	1:S:613:GLU:HG2	2.27	0.49
1:T:591:VAL:HG22	1:d:589:GLU:OE1	2.13	0.49
1:U:279:HIS:HB3	1:U:603:LEU:HG	1.94	0.49
1:X:589:GLU:OE1	1:e:591:VAL:HG22	2.12	0.49
1:Z:279:HIS:HB3	1:Z:603:LEU:HG	1.94	0.49
1:e:273:PHE:HE1	1:e:363:LEU:HD11	1.76	0.49
1:f:328:THR:O	1:f:397:ARG:NE	2.23	0.49
1:i:328:THR:O	1:i:397:ARG:NE	2.23	0.49
1:j:332:GLN:HG2	1:j:395:MET:HG2	1.92	0.49
1:k:332:GLN:HG2	1:k:395:MET:HG2	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:273:PHE:HE1	1:m:363:LEU:HD11	1.76	0.49
1:m:722:ARG:NE	1:n:613:GLU:HG2	2.27	0.49
1:n:239:LEU:HD23	1:n:240:PRO:O	2.12	0.49
1:s:279:HIS:HB3	1:s:603:LEU:HG	1.94	0.49
1:t:279:HIS:HB3	1:t:603:LEU:HG	1.94	0.49
1:w:239:LEU:HD23	1:w:240:PRO:O	2.12	0.49
1:x:476:ASN:OD1	1:x:520:THR:OG1	2.26	0.49
1:2:239:LEU:HD12	1:2:363:LEU:HD12	1.94	0.49
1:2:303:ARG:NH1	1:2:670:GLU:OE2	2.43	0.49
1:8:279:HIS:HB3	1:8:603:LEU:HG	1.94	0.49
1:B:591:VAL:HG22	1:J:589:GLU:OE1	2.13	0.49
1:B:613:GLU:HG2	1:L:722:ARG:NE	2.27	0.49
1:E:239:LEU:HD23	1:E:240:PRO:O	2.12	0.49
1:G:239:LEU:HD23	1:G:240:PRO:O	2.12	0.49
1:G:279:HIS:HB3	1:G:603:LEU:HG	1.94	0.49
1:H:247:TYR:CE2	1:Z:358:PRO:HG3	2.48	0.49
1:H:279:HIS:HB3	1:H:603:LEU:HG	1.94	0.49
1:J:404:PHE:HZ	1:J:634:PRO:HG2	1.78	0.49
1:L:273:PHE:HE1	1:L:363:LEU:HD11	1.76	0.49
1:S:279:HIS:HB3	1:S:603:LEU:HG	1.94	0.49
1:S:404:PHE:HZ	1:S:634:PRO:HG2	1.78	0.49
1:T:722:ARG:NE	1:d:613:GLU:HG2	2.27	0.49
1:V:589:GLU:OE1	1:X:591:VAL:HG22	2.13	0.49
1:W:459:ASN:OD1	1:W:459:ASN:N	2.46	0.49
1:a:279:HIS:HB3	1:a:603:LEU:HG	1.94	0.49
1:a:402:PHE:HE2	1:a:636:MET:HE2	1.76	0.49
1:c:273:PHE:HE1	1:c:363:LEU:HD11	1.76	0.49
1:c:591:VAL:HG22	1:o:589:GLU:OE1	2.12	0.49
1:k:646:ASN:HD22	1:w:314:VAL:HG21	1.78	0.49
1:p:646:ASN:HD22	1:6:314:VAL:HG21	1.78	0.49
1:q:239:LEU:HD12	1:q:363:LEU:HD12	1.94	0.49
1:r:228:ARG:NH1	1:r:672:GLU:OE2	2.35	0.49
1:r:279:HIS:HB3	1:r:603:LEU:HG	1.94	0.49
1:z:273:PHE:HE1	1:z:363:LEU:HD11	1.76	0.49
1:1:722:ARG:NE	1:2:613:GLU:HG2	2.27	0.49
1:3:279:HIS:HB3	1:3:603:LEU:HG	1.94	0.49
1:3:402:PHE:HE2	1:3:636:MET:HE2	1.76	0.49
1:5:279:HIS:HB3	1:5:603:LEU:HG	1.94	0.49
1:6:459:ASN:OD1	1:6:459:ASN:N	2.46	0.49
1:6:591:VAL:HG22	1:7:589:GLU:OE1	2.13	0.49
1:B:273:PHE:HE1	1:B:363:LEU:HD11	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:239:LEU:HD23	1:H:240:PRO:O	2.12	0.49
1:I:239:LEU:HD12	1:I:363:LEU:HD12	1.94	0.49
1:K:239:LEU:HD12	1:K:363:LEU:HD12	1.94	0.49
1:Q:314:VAL:HG21	1:S:646:ASN:HD22	1.78	0.49
1:U:402:PHE:HE2	1:U:636:MET:HE2	1.76	0.49
1:V:303:ARG:NH1	1:V:670:GLU:OE2	2.43	0.49
1:c:589:GLU:OE1	1:p:591:VAL:HG22	2.13	0.49
1:d:239:LEU:HD23	1:d:240:PRO:O	2.12	0.49
1:g:239:LEU:HD23	1:g:240:PRO:O	2.12	0.49
1:h:239:LEU:HD12	1:h:363:LEU:HD12	1.94	0.49
1:j:591:VAL:HG22	1:k:589:GLU:OE1	2.13	0.49
1:k:228:ARG:NH1	1:k:672:GLU:OE2	2.35	0.49
1:k:273:PHE:HE1	1:k:363:LEU:HD11	1.76	0.49
1:o:314:VAL:HG21	1:7:646:ASN:HD22	1.78	0.49
1:o:591:VAL:HG22	1:p:589:GLU:OE1	2.13	0.49
1:t:239:LEU:HD23	1:t:240:PRO:O	2.12	0.49
1:v:239:LEU:HD12	1:v:363:LEU:HD12	1.94	0.49
1:v:303:ARG:NH1	1:v:670:GLU:OE2	2.43	0.49
1:x:404:PHE:HZ	1:x:634:PRO:HG2	1.78	0.49
1:1:591:VAL:HG22	1:2:589:GLU:OE1	2.13	0.49
1:2:404:PHE:HZ	1:2:634:PRO:HG2	1.78	0.49
1:5:273:PHE:HE1	1:5:363:LEU:HD11	1.76	0.49
1:5:591:VAL:HG22	1:6:589:GLU:OE1	2.13	0.49
1:C:722:ARG:NE	1:b:613:GLU:HG2	2.27	0.49
1:E:279:HIS:HB3	1:E:603:LEU:HG	1.94	0.49
1:F:239:LEU:HD12	1:F:363:LEU:HD12	1.94	0.49
1:F:314:VAL:HG21	1:G:646:ASN:HD22	1.77	0.49
1:L:328:THR:O	1:L:397:ARG:NE	2.23	0.49
1:M:404:PHE:HZ	1:M:634:PRO:HG2	1.78	0.49
1:O:722:ARG:NE	1:m:613:GLU:HG2	2.27	0.49
1:Q:404:PHE:HZ	1:Q:634:PRO:HG2	1.78	0.49
1:R:404:PHE:HZ	1:R:634:PRO:HG2	1.78	0.49
1:U:314:VAL:HG21	1:e:646:ASN:HD22	1.78	0.49
1:V:591:VAL:HG22	1:e:589:GLU:OE1	2.13	0.49
1:c:646:ASN:HD22	1:s:314:VAL:HG21	1.78	0.49
1:f:239:LEU:HD12	1:f:363:LEU:HD12	1.94	0.49
1:h:404:PHE:HZ	1:h:634:PRO:HG2	1.78	0.49
1:q:404:PHE:HZ	1:q:634:PRO:HG2	1.78	0.49
1:q:591:VAL:HG22	1:r:589:GLU:OE1	2.13	0.49
1:r:404:PHE:HZ	1:r:634:PRO:HG2	1.78	0.49
1:r:646:ASN:HD22	1:x:314:VAL:HG21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:404:PHE:HZ	1:t:634:PRO:HG2	1.78	0.49
1:t:459:ASN:OD1	1:t:459:ASN:N	2.46	0.49
1:u:239:LEU:HD12	1:u:363:LEU:HD12	1.94	0.49
1:w:279:HIS:HB3	1:w:603:LEU:HG	1.94	0.49
1:x:722:ARG:NE	1:y:613:GLU:HG2	2.27	0.49
1:y:404:PHE:HZ	1:y:634:PRO:HG2	1.78	0.49
1:1:273:PHE:HE1	1:1:363:LEU:HD11	1.76	0.49
1:4:239:LEU:HD12	1:4:363:LEU:HD12	1.94	0.49
1:5:239:LEU:HD23	1:5:240:PRO:O	2.12	0.49
1:A:591:VAL:HG22	1:G:589:GLU:OE1	2.12	0.49
1:C:228:ARG:NH1	1:C:672:GLU:OE2	2.35	0.49
1:C:239:LEU:HD12	1:C:363:LEU:HD12	1.94	0.49
1:F:404:PHE:HZ	1:F:634:PRO:HG2	1.78	0.49
1:F:613:GLU:HG2	1:Q:722:ARG:NE	2.27	0.49
1:G:404:PHE:HZ	1:G:634:PRO:HG2	1.78	0.49
1:N:722:ARG:NE	1:P:613:GLU:HG2	2.27	0.49
1:P:404:PHE:HZ	1:P:634:PRO:HG2	1.78	0.49
1:R:228:ARG:NH1	1:R:672:GLU:OE2	2.35	0.49
1:R:591:VAL:HG22	1:S:589:GLU:OE1	2.13	0.49
1:T:613:GLU:HG2	1:l:722:ARG:NE	2.27	0.49
1:U:328:THR:O	1:U:397:ARG:NE	2.23	0.49
1:Y:314:VAL:HG21	1:4:646:ASN:HD22	1.78	0.49
1:c:279:HIS:HB3	1:c:603:LEU:HG	1.94	0.49
1:c:328:THR:O	1:c:397:ARG:NE	2.23	0.49
1:g:239:LEU:HD12	1:g:363:LEU:HD12	1.94	0.49
1:g:404:PHE:HZ	1:g:634:PRO:HG2	1.78	0.49
1:j:328:THR:O	1:j:397:ARG:NE	2.23	0.49
1:j:404:PHE:HZ	1:j:634:PRO:HG2	1.78	0.49
1:s:402:PHE:HE2	1:s:636:MET:HE2	1.76	0.49
1:z:722:ARG:NE	1:1:613:GLU:HG2	2.27	0.49
1:A:303:ARG:NH1	1:A:670:GLU:OE2	2.43	0.48
1:A:646:ASN:HD22	1:B:314:VAL:HG21	1.78	0.48
1:B:328:THR:O	1:B:397:ARG:NE	2.23	0.48
1:C:404:PHE:HZ	1:C:634:PRO:HG2	1.78	0.48
1:D:591:VAL:HG22	1:N:589:GLU:OE1	2.13	0.48
1:F:476:ASN:OD1	1:F:520:THR:OG1	2.26	0.48
1:G:314:VAL:HG21	1:W:646:ASN:HD22	1.78	0.48
1:M:239:LEU:HD12	1:M:363:LEU:HD12	1.94	0.48
1:N:591:VAL:HG22	1:P:589:GLU:OE1	2.12	0.48
1:P:239:LEU:HD12	1:P:363:LEU:HD12	1.94	0.48
1:S:228:ARG:NH1	1:S:672:GLU:OE2	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:279:HIS:HB3	1:T:603:LEU:HG	1.94	0.48
1:T:459:ASN:OD1	1:T:459:ASN:N	2.46	0.48
1:U:426:LEU:HD21	1:U:724:LEU:HD23	1.95	0.48
1:Z:589:GLU:OE1	1:3:591:VAL:HG22	2.12	0.48
1:Z:613:GLU:HG2	1:3:722:ARG:NE	2.27	0.48
1:a:591:VAL:HG22	1:8:589:GLU:OE1	2.12	0.48
1:b:239:LEU:HD12	1:b:363:LEU:HD12	1.94	0.48
1:b:328:THR:O	1:b:397:ARG:NE	2.23	0.48
1:d:303:ARG:NH1	1:d:670:GLU:OE2	2.43	0.48
1:e:279:HIS:HB3	1:e:603:LEU:HG	1.94	0.48
1:f:613:GLU:HG2	1:g:722:ARG:NE	2.27	0.48
1:h:279:HIS:HB3	1:h:603:LEU:HG	1.94	0.48
1:i:589:GLU:OE1	1:k:591:VAL:HG22	2.13	0.48
1:p:303:ARG:NH1	1:p:670:GLU:OE2	2.43	0.48
1:q:228:ARG:NH1	1:q:672:GLU:OE2	2.35	0.48
1:s:426:LEU:HD21	1:s:724:LEU:HD23	1.95	0.48
1:t:314:VAL:HG21	1:6:646:ASN:HD22	1.78	0.48
1:u:228:ARG:NH1	1:u:672:GLU:OE2	2.35	0.48
1:u:404:PHE:HZ	1:u:634:PRO:HG2	1.78	0.48
1:u:646:ASN:HD22	1:5:314:VAL:HG21	1.78	0.48
1:y:239:LEU:HD12	1:y:363:LEU:HD12	1.94	0.48
1:1:476:ASN:OD1	1:1:520:THR:OG1	2.26	0.48
1:5:646:ASN:HD22	1:8:314:VAL:HG21	1.78	0.48
1:8:404:PHE:HZ	1:8:634:PRO:HG2	1.78	0.48
1:D:476:ASN:OD1	1:D:520:THR:OG1	2.26	0.48
1:E:589:GLU:OE1	1:F:591:VAL:HG22	2.13	0.48
1:J:722:ARG:NE	1:L:613:GLU:HG2	2.27	0.48
1:M:279:HIS:HB3	1:M:603:LEU:HG	1.94	0.48
1:R:646:ASN:HD22	1:V:314:VAL:HG21	1.78	0.48
1:Z:722:ARG:NE	1:4:613:GLU:HG2	2.27	0.48
1:g:314:VAL:HG21	1:1:646:ASN:HD22	1.78	0.48
1:i:279:HIS:HB3	1:i:603:LEU:HG	1.94	0.48
1:i:473:GLN:HE22	1:k:574:GLN:H	1.61	0.48
1:j:239:LEU:HD12	1:j:363:LEU:HD12	1.94	0.48
1:m:279:HIS:HB3	1:m:603:LEU:HG	1.94	0.48
1:m:404:PHE:HZ	1:m:634:PRO:HG2	1.78	0.48
1:p:314:VAL:HG21	1:q:646:ASN:HD22	1.78	0.48
1:s:328:THR:O	1:s:397:ARG:NE	2.23	0.48
1:t:589:GLU:OE1	1:v:591:VAL:HG22	2.13	0.48
1:t:646:ASN:HD22	1:y:314:VAL:HG21	1.77	0.48
1:2:476:ASN:OD1	1:2:520:THR:OG1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:239:LEU:HD12	1:5:363:LEU:HD12	1.94	0.48
1:5:613:GLU:HG2	1:7:722:ARG:NE	2.27	0.48
1:7:239:LEU:HD12	1:7:363:LEU:HD12	1.94	0.48
1:7:426:LEU:HD21	1:7:724:LEU:HD23	1.96	0.48
1:B:476:ASN:OD1	1:B:520:THR:OG1	2.26	0.48
1:C:426:LEU:HD21	1:C:724:LEU:HD23	1.96	0.48
1:D:228:ARG:NH1	1:D:672:GLU:OE2	2.35	0.48
1:D:574:GLN:H	1:N:473:GLN:HE22	1.61	0.48
1:F:646:ASN:HD22	1:R:314:VAL:HG21	1.78	0.48
1:I:228:ARG:NH1	1:I:672:GLU:OE2	2.35	0.48
1:I:404:PHE:HZ	1:I:634:PRO:HG2	1.78	0.48
1:K:613:GLU:HG2	1:8:722:ARG:NE	2.27	0.48
1:N:279:HIS:HB3	1:N:603:LEU:HG	1.94	0.48
1:O:404:PHE:HZ	1:O:634:PRO:HG2	1.78	0.48
1:P:279:HIS:HB3	1:P:603:LEU:HG	1.94	0.48
1:R:279:HIS:HB3	1:R:603:LEU:HG	1.94	0.48
1:R:426:LEU:HD21	1:R:724:LEU:HD23	1.95	0.48
1:T:239:LEU:HD12	1:T:363:LEU:HD12	1.94	0.48
1:U:404:PHE:HZ	1:U:634:PRO:HG2	1.78	0.48
1:W:404:PHE:HZ	1:W:634:PRO:HG2	1.78	0.48
1:Y:426:LEU:HD21	1:Y:724:LEU:HD23	1.96	0.48
1:Z:404:PHE:HZ	1:Z:634:PRO:HG2	1.78	0.48
1:g:426:LEU:HD21	1:g:724:LEU:HD23	1.96	0.48
1:l:404:PHE:HZ	1:l:634:PRO:HG2	1.78	0.48
1:m:239:LEU:HD12	1:m:363:LEU:HD12	1.94	0.48
1:m:459:ASN:OD1	1:m:459:ASN:N	2.46	0.48
1:n:303:ARG:NH1	1:n:670:GLU:OE2	2.43	0.48
1:q:279:HIS:HB3	1:q:603:LEU:HG	1.94	0.48
1:w:303:ARG:NH1	1:w:670:GLU:OE2	2.43	0.48
1:w:589:GLU:OE1	1:y:591:VAL:HG22	2.13	0.48
1:y:476:ASN:OD1	1:y:520:THR:OG1	2.26	0.48
1:z:591:VAL:HG22	1:1:589:GLU:OE1	2.12	0.48
1:1:279:HIS:HB3	1:1:603:LEU:HG	1.94	0.48
1:6:404:PHE:HZ	1:6:634:PRO:HG2	1.78	0.48
1:7:273:PHE:HE1	1:7:363:LEU:HD11	1.76	0.48
1:E:303:ARG:NH1	1:E:670:GLU:OE2	2.43	0.48
1:N:476:ASN:OD1	1:N:520:THR:OG1	2.26	0.48
1:T:404:PHE:HZ	1:T:634:PRO:HG2	1.78	0.48
1:V:459:ASN:OD1	1:V:459:ASN:N	2.46	0.48
1:W:426:LEU:HD21	1:W:724:LEU:HD23	1.96	0.48
1:Y:273:PHE:HE1	1:Y:363:LEU:HD11	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:722:ARG:NE	1:8:613:GLU:HG2	2.27	0.48
1:c:404:PHE:HZ	1:c:634:PRO:HG2	1.78	0.48
1:e:239:LEU:HD12	1:e:363:LEU:HD12	1.94	0.48
1:e:328:THR:O	1:e:397:ARG:NE	2.23	0.48
1:i:591:VAL:HG22	1:j:589:GLU:OE1	2.13	0.48
1:p:279:HIS:HB3	1:p:603:LEU:HG	1.94	0.48
1:p:459:ASN:OD1	1:p:459:ASN:N	2.46	0.48
1:q:314:VAL:HG21	1:y:646:ASN:HD22	1.78	0.48
1:q:426:LEU:HD21	1:q:724:LEU:HD23	1.96	0.48
1:v:646:ASN:HD22	1:1:314:VAL:HG21	1.78	0.48
1:w:459:ASN:OD1	1:w:459:ASN:N	2.46	0.48
1:z:328:THR:O	1:z:397:ARG:NE	2.23	0.48
1:z:613:GLU:HG2	1:2:722:ARG:NE	2.27	0.48
1:1:426:LEU:HD21	1:1:724:LEU:HD23	1.95	0.48
1:3:404:PHE:HZ	1:3:634:PRO:HG2	1.78	0.48
1:5:589:GLU:OE1	1:7:591:VAL:HG22	2.13	0.48
1:B:279:HIS:HB3	1:B:603:LEU:HG	1.94	0.48
1:B:426:LEU:HD21	1:B:724:LEU:HD23	1.96	0.48
1:C:646:ASN:HD22	1:D:314:VAL:HG21	1.78	0.48
1:D:279:HIS:HB3	1:D:603:LEU:HG	1.94	0.48
1:D:426:LEU:HD21	1:D:724:LEU:HD23	1.96	0.48
1:E:459:ASN:OD1	1:E:459:ASN:N	2.46	0.48
1:F:303:ARG:NH1	1:F:670:GLU:OE2	2.43	0.48
1:G:239:LEU:HD12	1:G:363:LEU:HD12	1.94	0.48
1:H:239:LEU:HD12	1:H:363:LEU:HD12	1.94	0.48
1:I:459:ASN:OD1	1:I:459:ASN:N	2.46	0.48
1:M:589:GLU:OE1	1:b:591:VAL:HG22	2.12	0.48
1:X:646:ASN:HD22	1:f:314:VAL:HG21	1.77	0.48
1:Y:239:LEU:HD12	1:Y:363:LEU:HD12	1.94	0.48
1:Z:591:VAL:HG22	1:4:589:GLU:OE1	2.13	0.48
1:a:404:PHE:HZ	1:a:634:PRO:HG2	1.78	0.48
1:a:426:LEU:HD21	1:a:724:LEU:HD23	1.96	0.48
1:c:239:LEU:HD12	1:c:363:LEU:HD12	1.94	0.48
1:d:279:HIS:HB3	1:d:603:LEU:HG	1.94	0.48
1:d:426:LEU:HD21	1:d:724:LEU:HD23	1.96	0.48
1:f:404:PHE:HZ	1:f:634:PRO:HG2	1.78	0.48
1:g:646:ASN:HD22	1:k:314:VAL:HG21	1.78	0.48
1:i:722:ARG:NE	1:j:613:GLU:HG2	2.27	0.48
1:k:279:HIS:HB3	1:k:603:LEU:HG	1.94	0.48
1:k:426:LEU:HD21	1:k:724:LEU:HD23	1.96	0.48
1:l:426:LEU:HD21	1:l:724:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:239:LEU:HD23	1:m:240:PRO:O	2.12	0.48
1:s:404:PHE:HZ	1:s:634:PRO:HG2	1.78	0.48
1:t:239:LEU:HD12	1:t:363:LEU:HD12	1.94	0.48
1:u:459:ASN:OD1	1:u:459:ASN:N	2.46	0.48
1:y:303:ARG:NH1	1:y:670:GLU:OE2	2.43	0.48
1:y:426:LEU:HD21	1:y:724:LEU:HD23	1.96	0.48
1:1:328:THR:O	1:1:397:ARG:NE	2.23	0.48
1:3:426:LEU:HD21	1:3:724:LEU:HD23	1.96	0.48
1:5:722:ARG:NE	1:6:613:GLU:HG2	2.27	0.48
1:8:426:LEU:HD21	1:8:724:LEU:HD23	1.96	0.48
1:B:589:GLU:OE1	1:L:591:VAL:HG22	2.13	0.48
1:B:646:ASN:HD22	1:C:314:VAL:HG21	1.78	0.48
1:C:279:HIS:HB3	1:C:603:LEU:HG	1.94	0.48
1:F:426:LEU:HD21	1:F:724:LEU:HD23	1.96	0.48
1:F:589:GLU:OE1	1:Q:591:VAL:HG22	2.13	0.48
1:G:426:LEU:HD21	1:G:724:LEU:HD23	1.96	0.48
1:H:428:ASN:HB3	1:W:344:VAL:HG11	1.95	0.48
1:K:404:PHE:HZ	1:K:634:PRO:HG2	1.78	0.48
1:K:589:GLU:OE1	1:8:591:VAL:HG22	2.13	0.48
1:M:646:ASN:HD22	1:c:314:VAL:HG21	1.77	0.48
1:O:239:LEU:HD12	1:O:363:LEU:HD12	1.94	0.48
1:O:426:LEU:HD21	1:O:724:LEU:HD23	1.96	0.48
1:S:314:VAL:HG21	1:d:646:ASN:HD22	1.78	0.48
1:T:239:LEU:HD23	1:T:240:PRO:O	2.12	0.48
1:V:279:HIS:HB3	1:V:603:LEU:HG	1.94	0.48
1:b:314:VAL:HG21	1:o:646:ASN:HD22	1.77	0.48
1:b:404:PHE:HZ	1:b:634:PRO:HG2	1.78	0.48
1:d:404:PHE:HZ	1:d:634:PRO:HG2	1.78	0.48
1:e:404:PHE:HZ	1:e:634:PRO:HG2	1.78	0.48
1:j:279:HIS:HB3	1:j:603:LEU:HG	1.94	0.48
1:l:239:LEU:HD12	1:l:363:LEU:HD12	1.94	0.48
1:n:279:HIS:HB3	1:n:603:LEU:HG	1.94	0.48
1:n:426:LEU:HD21	1:n:724:LEU:HD23	1.96	0.48
1:n:646:ASN:HD22	1:r:314:VAL:HG21	1.78	0.48
1:4:404:PHE:HZ	1:4:634:PRO:HG2	1.78	0.48
1:6:426:LEU:HD21	1:6:724:LEU:HD23	1.96	0.48
1:E:239:LEU:HD12	1:E:363:LEU:HD12	1.94	0.48
1:J:591:VAL:HG22	1:L:589:GLU:OE1	2.12	0.48
1:N:239:LEU:HD12	1:N:363:LEU:HD12	1.94	0.48
1:O:591:VAL:HG22	1:m:589:GLU:OE1	2.13	0.48
1:T:426:LEU:HD21	1:T:724:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:591:VAL:HG22	1:Y:589:GLU:OE1	2.13	0.48
1:X:279:HIS:HB3	1:X:603:LEU:HG	1.94	0.48
1:Z:426:LEU:HD21	1:Z:724:LEU:HD23	1.96	0.48
1:a:432:ASP:CB	1:a:453:LEU:HA	2.44	0.48
1:f:591:VAL:HG22	1:h:589:GLU:OE1	2.12	0.48
1:g:279:HIS:HB3	1:g:603:LEU:HG	1.94	0.48
1:j:314:VAL:HG21	1:x:646:ASN:HD22	1.78	0.48
1:k:476:ASN:OD1	1:k:520:THR:OG1	2.26	0.48
1:m:426:LEU:HD21	1:m:724:LEU:HD23	1.96	0.48
1:n:404:PHE:HZ	1:n:634:PRO:HG2	1.78	0.48
1:o:279:HIS:HB3	1:o:603:LEU:HG	1.94	0.48
1:q:476:ASN:OD1	1:q:520:THR:OG1	2.26	0.48
1:t:591:VAL:HG22	1:u:589:GLU:OE1	2.13	0.48
1:F:279:HIS:HB3	1:F:603:LEU:HG	1.94	0.48
1:G:591:VAL:HG22	1:I:589:GLU:OE1	2.13	0.48
1:I:426:LEU:HD21	1:I:724:LEU:HD23	1.96	0.48
1:J:432:ASP:CB	1:J:453:LEU:HA	2.44	0.48
1:M:426:LEU:HD21	1:M:724:LEU:HD23	1.96	0.48
1:Q:426:LEU:HD21	1:Q:724:LEU:HD23	1.96	0.48
1:S:591:VAL:HG22	1:U:589:GLU:OE1	2.12	0.48
1:T:589:GLU:OE1	1:l:591:VAL:HG22	2.13	0.48
1:U:432:ASP:CB	1:U:453:LEU:HA	2.44	0.48
1:W:574:GLN:H	1:Y:473:GLN:HE22	1.62	0.48
1:X:314:VAL:HG21	1:Y:646:ASN:HD22	1.79	0.48
1:d:432:ASP:CB	1:d:453:LEU:HA	2.44	0.48
1:e:314:VAL:HG21	1:h:646:ASN:HD22	1.77	0.48
1:h:426:LEU:HD21	1:h:724:LEU:HD23	1.96	0.48
1:i:239:LEU:HD12	1:i:363:LEU:HD12	1.94	0.48
1:i:476:ASN:OD1	1:i:520:THR:OG1	2.26	0.48
1:l:476:ASN:OD1	1:l:520:THR:OG1	2.26	0.48
1:n:328:THR:O	1:n:397:ARG:NE	2.23	0.48
1:n:432:ASP:CB	1:n:453:LEU:HA	2.44	0.48
1:q:589:GLU:OE1	1:s:591:VAL:HG22	2.12	0.48
1:s:432:ASP:CB	1:s:453:LEU:HA	2.44	0.48
1:t:426:LEU:HD21	1:t:724:LEU:HD23	1.96	0.48
1:u:426:LEU:HD21	1:u:724:LEU:HD23	1.96	0.48
1:v:404:PHE:HZ	1:v:634:PRO:HG2	1.78	0.48
1:x:591:VAL:HG22	1:y:589:GLU:OE1	2.13	0.48
1:z:589:GLU:OE1	1:2:591:VAL:HG22	2.12	0.48
1:4:426:LEU:HD21	1:4:724:LEU:HD23	1.96	0.48
1:A:404:PHE:HZ	1:A:634:PRO:HG2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:404:PHE:HZ	1:H:634:PRO:HG2	1.78	0.48
1:K:426:LEU:HD21	1:K:724:LEU:HD23	1.96	0.48
1:K:432:ASP:CB	1:K:453:LEU:HA	2.44	0.48
1:L:314:VAL:HG21	1:b:646:ASN:HD22	1.78	0.48
1:L:404:PHE:HZ	1:L:634:PRO:HG2	1.78	0.48
1:N:314:VAL:HG21	1:m:646:ASN:HD22	1.79	0.48
1:R:432:ASP:CB	1:R:453:LEU:HA	2.44	0.48
1:R:589:GLU:OE1	1:U:591:VAL:HG22	2.12	0.48
1:T:646:ASN:HD22	1:i:314:VAL:HG21	1.79	0.48
1:b:426:LEU:HD21	1:b:724:LEU:HD23	1.96	0.48
1:f:589:GLU:OE1	1:g:591:VAL:HG22	2.13	0.48
1:f:646:ASN:HD22	1:z:314:VAL:HG21	1.78	0.48
1:k:406:TYR:OH	1:k:631:HIS:O	2.30	0.48
1:u:722:ARG:NE	1:v:613:GLU:HG2	2.27	0.48
1:w:239:LEU:HD12	1:w:363:LEU:HD12	1.94	0.48
1:x:426:LEU:HD21	1:x:724:LEU:HD23	1.96	0.48
1:y:279:HIS:HB3	1:y:603:LEU:HG	1.94	0.48
1:2:432:ASP:CB	1:2:453:LEU:HA	2.44	0.48
1:4:432:ASP:CB	1:4:453:LEU:HA	2.44	0.48
1:5:404:PHE:HZ	1:5:634:PRO:HG2	1.78	0.48
1:C:591:VAL:HG22	1:b:589:GLU:OE1	2.13	0.48
1:E:722:ARG:NE	1:Q:613:GLU:HG2	2.27	0.48
1:R:476:ASN:OD1	1:R:520:THR:OG1	2.26	0.48
1:S:303:ARG:NH1	1:S:670:GLU:OE2	2.43	0.48
1:X:459:ASN:OD1	1:X:459:ASN:N	2.46	0.48
1:l:432:ASP:CB	1:l:453:LEU:HA	2.44	0.48
1:o:426:LEU:HD21	1:o:724:LEU:HD23	1.96	0.48
1:o:432:ASP:CB	1:o:453:LEU:HA	2.44	0.48
1:q:432:ASP:CB	1:q:453:LEU:HA	2.44	0.48
1:u:574:GLN:H	1:v:473:GLN:HE22	1.62	0.48
1:3:432:ASP:CB	1:3:453:LEU:HA	2.44	0.48
1:5:426:LEU:HD21	1:5:724:LEU:HD23	1.96	0.48
1:A:613:GLU:HG2	1:I:722:ARG:NE	2.27	0.47
1:D:432:ASP:CB	1:D:453:LEU:HA	2.44	0.47
1:K:473:GLN:NE2	1:8:574:GLN:H	2.12	0.47
1:O:432:ASP:CB	1:O:453:LEU:HA	2.44	0.47
1:X:426:LEU:HD21	1:X:724:LEU:HD23	1.96	0.47
1:X:432:ASP:CB	1:X:453:LEU:HA	2.44	0.47
1:Z:574:GLN:H	1:4:473:GLN:NE2	2.12	0.47
1:e:426:LEU:HD21	1:e:724:LEU:HD23	1.96	0.47
1:f:426:LEU:HD21	1:f:724:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:432:ASP:CB	1:k:453:LEU:HA	2.44	0.47
1:q:574:GLN:H	1:r:473:GLN:HE22	1.62	0.47
1:r:591:VAL:HG22	1:s:589:GLU:OE1	2.12	0.47
1:z:404:PHE:HZ	1:z:634:PRO:HG2	1.78	0.47
1:4:476:ASN:OD1	1:4:520:THR:OG1	2.26	0.47
1:5:574:GLN:H	1:6:473:GLN:HE22	1.62	0.47
1:6:722:ARG:NE	1:7:613:GLU:HG2	2.27	0.47
1:7:459:ASN:OD1	1:7:459:ASN:N	2.46	0.47
1:H:426:LEU:HD21	1:H:724:LEU:HD23	1.96	0.47
1:L:432:ASP:CB	1:L:453:LEU:HA	2.44	0.47
1:O:476:ASN:OD1	1:O:520:THR:OG1	2.26	0.47
1:O:574:GLN:H	1:m:473:GLN:HE22	1.62	0.47
1:P:314:VAL:HG21	1:Q:646:ASN:HD22	1.78	0.47
1:R:574:GLN:H	1:S:473:GLN:HE22	1.62	0.47
1:S:574:GLN:H	1:U:473:GLN:HE22	1.63	0.47
1:V:473:GLN:NE2	1:X:574:GLN:H	2.12	0.47
1:V:574:GLN:H	1:e:473:GLN:HE22	1.63	0.47
1:Y:432:ASP:CB	1:Y:453:LEU:HA	2.44	0.47
1:c:473:GLN:HE22	1:p:574:GLN:H	1.62	0.47
1:g:328:THR:O	1:g:397:ARG:NE	2.23	0.47
1:j:426:LEU:HD21	1:j:724:LEU:HD23	1.96	0.47
1:j:646:ASN:HD22	1:l:314:VAL:HG21	1.78	0.47
1:o:459:ASN:OD1	1:o:459:ASN:N	2.46	0.47
1:r:303:ARG:NH1	1:r:670:GLU:OE2	2.43	0.47
1:r:459:ASN:OD1	1:r:459:ASN:N	2.46	0.47
1:r:574:GLN:H	1:s:473:GLN:HE22	1.63	0.47
1:u:574:GLN:H	1:v:473:GLN:NE2	2.12	0.47
1:w:722:ARG:NE	1:x:613:GLU:HG2	2.27	0.47
1:z:426:LEU:HD21	1:z:724:LEU:HD23	1.95	0.47
1:1:228:ARG:NH1	1:1:672:GLU:OE2	2.35	0.47
1:5:473:GLN:NE2	1:7:574:GLN:H	2.12	0.47
1:6:574:GLN:H	1:7:473:GLN:HE22	1.62	0.47
1:A:473:GLN:NE2	1:I:574:GLN:H	2.12	0.47
1:H:460:THR:O	1:W:505:PRO:HD2	2.15	0.47
1:L:426:LEU:HD21	1:L:724:LEU:HD23	1.95	0.47
1:N:432:ASP:CB	1:N:453:LEU:HA	2.44	0.47
1:O:314:VAL:HG21	1:P:646:ASN:HD22	1.78	0.47
1:Q:432:ASP:CB	1:Q:453:LEU:HA	2.44	0.47
1:S:459:ASN:OD1	1:S:459:ASN:N	2.46	0.47
1:T:473:GLN:NE2	1:l:574:GLN:H	2.13	0.47
1:W:574:GLN:H	1:Y:473:GLN:NE2	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:574:GLN:H	1:4:473:GLN:HE22	1.62	0.47
1:c:426:LEU:HD21	1:c:724:LEU:HD23	1.96	0.47
1:d:328:THR:O	1:d:397:ARG:NE	2.23	0.47
1:g:432:ASP:CB	1:g:453:LEU:HA	2.44	0.47
1:h:314:VAL:HG21	1:i:646:ASN:HD22	1.79	0.47
1:i:574:GLN:H	1:j:473:GLN:NE2	2.13	0.47
1:o:574:GLN:H	1:p:473:GLN:NE2	2.12	0.47
1:p:426:LEU:HD21	1:p:724:LEU:HD23	1.96	0.47
1:t:574:GLN:H	1:u:473:GLN:HE22	1.62	0.47
1:v:432:ASP:CB	1:v:453:LEU:HA	2.44	0.47
1:w:432:ASP:CB	1:w:453:LEU:HA	2.44	0.47
1:x:432:ASP:CB	1:x:453:LEU:HA	2.44	0.47
1:z:432:ASP:CB	1:z:453:LEU:HA	2.44	0.47
1:1:574:GLN:H	1:2:473:GLN:NE2	2.12	0.47
1:7:432:ASP:CB	1:7:453:LEU:HA	2.44	0.47
1:A:432:ASP:CB	1:A:453:LEU:HA	2.44	0.47
1:A:473:GLN:HE22	1:I:574:GLN:H	1.63	0.47
1:B:228:ARG:NH1	1:B:672:GLU:OE2	2.35	0.47
1:B:574:GLN:H	1:J:473:GLN:NE2	2.12	0.47
1:C:432:ASP:CB	1:C:453:LEU:HA	2.44	0.47
1:E:432:ASP:CB	1:E:453:LEU:HA	2.44	0.47
1:H:423:LEU:HD11	1:H:595:VAL:CG2	2.45	0.47
1:K:473:GLN:HE22	1:8:574:GLN:H	1.62	0.47
1:N:404:PHE:HZ	1:N:634:PRO:HG2	1.78	0.47
1:N:426:LEU:HD21	1:N:724:LEU:HD23	1.96	0.47
1:N:574:GLN:H	1:P:473:GLN:NE2	2.13	0.47
1:O:574:GLN:H	1:m:473:GLN:NE2	2.13	0.47
1:S:426:LEU:HD21	1:S:724:LEU:HD23	1.96	0.47
1:T:473:GLN:HE22	1:l:574:GLN:H	1.62	0.47
1:V:426:LEU:HD21	1:V:724:LEU:HD23	1.96	0.47
1:Y:404:PHE:HZ	1:Y:634:PRO:HG2	1.78	0.47
1:Y:459:ASN:OD1	1:Y:459:ASN:N	2.46	0.47
1:Z:432:ASP:CB	1:Z:453:LEU:HA	2.44	0.47
1:i:432:ASP:CB	1:i:453:LEU:HA	2.44	0.47
1:o:404:PHE:HZ	1:o:634:PRO:HG2	1.78	0.47
1:r:432:ASP:CB	1:r:453:LEU:HA	2.44	0.47
1:z:473:GLN:NE2	1:2:574:GLN:H	2.13	0.47
1:7:476:ASN:OD1	1:7:520:THR:OG1	2.26	0.47
1:8:432:ASP:CB	1:8:453:LEU:HA	2.44	0.47
1:A:426:LEU:HD21	1:A:724:LEU:HD23	1.96	0.47
1:B:303:ARG:NH1	1:B:670:GLU:OE2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:423:LEU:HD11	1:G:595:VAL:CG2	2.45	0.47
1:H:574:GLN:H	1:W:473:GLN:HE22	1.63	0.47
1:I:432:ASP:CB	1:I:453:LEU:HA	2.44	0.47
1:J:426:LEU:HD21	1:J:724:LEU:HD23	1.96	0.47
1:J:574:GLN:H	1:L:473:GLN:NE2	2.13	0.47
1:K:476:ASN:OD1	1:K:520:THR:OG1	2.26	0.47
1:P:426:LEU:HD21	1:P:724:LEU:HD23	1.96	0.47
1:S:432:ASP:CB	1:S:453:LEU:HA	2.44	0.47
1:U:423:LEU:HD11	1:U:595:VAL:CG2	2.45	0.47
1:X:423:LEU:HD11	1:X:595:VAL:CG2	2.45	0.47
1:X:473:GLN:NE2	1:e:574:GLN:H	2.13	0.47
1:c:574:GLN:H	1:o:473:GLN:NE2	2.13	0.47
1:f:473:GLN:NE2	1:g:574:GLN:H	2.13	0.47
1:i:473:GLN:NE2	1:k:574:GLN:H	2.12	0.47
1:r:426:LEU:HD21	1:r:724:LEU:HD23	1.96	0.47
1:s:423:LEU:HD11	1:s:595:VAL:CG2	2.45	0.47
1:t:423:LEU:HD11	1:t:595:VAL:CG2	2.45	0.47
1:u:432:ASP:CB	1:u:453:LEU:HA	2.44	0.47
1:w:426:LEU:HD21	1:w:724:LEU:HD23	1.96	0.47
1:5:423:LEU:HD11	1:5:595:VAL:CG2	2.45	0.47
1:6:574:GLN:H	1:7:473:GLN:NE2	2.12	0.47
1:A:459:ASN:OD1	1:A:459:ASN:N	2.46	0.47
1:C:574:GLN:H	1:b:473:GLN:NE2	2.13	0.47
1:E:404:PHE:HZ	1:E:634:PRO:HG2	1.78	0.47
1:E:473:GLN:HE22	1:F:574:GLN:H	1.62	0.47
1:J:476:ASN:OD1	1:J:520:THR:OG1	2.26	0.47
1:M:314:VAL:HG21	1:N:646:ASN:HD22	1.79	0.47
1:S:423:LEU:HD11	1:S:595:VAL:CG2	2.45	0.47
1:V:432:ASP:CB	1:V:453:LEU:HA	2.44	0.47
1:W:432:ASP:CB	1:W:453:LEU:HA	2.44	0.47
1:X:404:PHE:HZ	1:X:634:PRO:HG2	1.78	0.47
1:f:574:GLN:H	1:h:473:GLN:HE22	1.63	0.47
1:i:228:ARG:NH1	1:i:672:GLU:OE2	2.35	0.47
1:i:426:LEU:HD21	1:i:724:LEU:HD23	1.96	0.47
1:j:432:ASP:CB	1:j:453:LEU:HA	2.44	0.47
1:o:423:LEU:HD11	1:o:595:VAL:CG2	2.45	0.47
1:v:426:LEU:HD21	1:v:724:LEU:HD23	1.96	0.47
1:v:459:ASN:OD1	1:v:459:ASN:N	2.46	0.47
1:1:303:ARG:NH1	1:1:670:GLU:OE2	2.43	0.47
1:5:574:GLN:H	1:6:473:GLN:NE2	2.12	0.47
1:6:432:ASP:CB	1:6:453:LEU:HA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:404:PHE:HZ	1:7:634:PRO:HG2	1.78	0.47
1:B:423:LEU:HD11	1:B:595:VAL:CG2	2.45	0.47
1:C:328:THR:O	1:C:397:ARG:NE	2.23	0.47
1:D:404:PHE:HZ	1:D:634:PRO:HG2	1.78	0.47
1:D:473:GLN:HE22	1:P:574:GLN:H	1.62	0.47
1:D:574:GLN:H	1:N:473:GLN:NE2	2.12	0.47
1:E:426:LEU:HD21	1:E:724:LEU:HD23	1.96	0.47
1:E:476:ASN:OD1	1:E:520:THR:OG1	2.26	0.47
1:F:432:ASP:CB	1:F:453:LEU:HA	2.44	0.47
1:F:473:GLN:HE22	1:Q:574:GLN:H	1.62	0.47
1:G:428:ASN:HB3	1:I:344:VAL:HG11	1.97	0.47
1:G:432:ASP:CB	1:G:453:LEU:HA	2.44	0.47
1:G:574:GLN:H	1:I:473:GLN:HE22	1.63	0.47
1:I:423:LEU:HD11	1:I:595:VAL:CG2	2.45	0.47
1:M:473:GLN:HE22	1:b:574:GLN:H	1.63	0.47
1:O:358:PRO:HG3	1:P:247:TYR:CE2	2.50	0.47
1:P:432:ASP:CB	1:P:453:LEU:HA	2.44	0.47
1:R:473:GLN:NE2	1:U:574:GLN:H	2.13	0.47
1:T:423:LEU:HD11	1:T:595:VAL:CG2	2.45	0.47
1:T:432:ASP:CB	1:T:453:LEU:HA	2.44	0.47
1:V:404:PHE:HZ	1:V:634:PRO:HG2	1.78	0.47
1:W:423:LEU:HD11	1:W:595:VAL:CG2	2.45	0.47
1:b:432:ASP:CB	1:b:453:LEU:HA	2.44	0.47
1:d:574:GLN:H	1:l:473:GLN:NE2	2.13	0.47
1:i:404:PHE:HZ	1:i:634:PRO:HG2	1.78	0.47
1:i:574:GLN:H	1:j:473:GLN:HE22	1.62	0.47
1:j:574:GLN:H	1:k:473:GLN:HE22	1.62	0.47
1:m:423:LEU:HD11	1:m:595:VAL:CG2	2.45	0.47
1:m:432:ASP:CB	1:m:453:LEU:HA	2.44	0.47
1:p:432:ASP:CB	1:p:453:LEU:HA	2.44	0.47
1:q:473:GLN:NE2	1:s:574:GLN:H	2.13	0.47
1:r:423:LEU:HD11	1:r:595:VAL:CG2	2.45	0.47
1:t:432:ASP:CB	1:t:453:LEU:HA	2.44	0.47
1:u:423:LEU:HD11	1:u:595:VAL:CG2	2.45	0.47
1:w:404:PHE:HZ	1:w:634:PRO:HG2	1.78	0.47
1:w:473:GLN:HE22	1:y:574:GLN:H	1.63	0.47
1:x:574:GLN:H	1:y:473:GLN:HE22	1.62	0.47
1:y:432:ASP:CB	1:y:453:LEU:HA	2.44	0.47
1:2:426:LEU:HD21	1:2:724:LEU:HD23	1.96	0.47
1:A:328:THR:O	1:A:397:ARG:NE	2.23	0.47
1:A:574:GLN:H	1:G:473:GLN:NE2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:644:PRO:HG2	1:Z:238:VAL:CG2	2.44	0.47
1:N:574:GLN:H	1:P:473:GLN:HE22	1.62	0.47
1:O:473:GLN:NE2	1:n:574:GLN:H	2.13	0.47
1:Q:423:LEU:HD11	1:Q:595:VAL:CG2	2.45	0.47
1:c:432:ASP:CB	1:c:453:LEU:HA	2.44	0.47
1:f:432:ASP:CB	1:f:453:LEU:HA	2.44	0.47
1:i:344:VAL:HG11	1:k:428:ASN:HB3	1.97	0.47
1:k:404:PHE:HZ	1:k:634:PRO:HG2	1.78	0.47
1:p:404:PHE:HZ	1:p:634:PRO:HG2	1.78	0.47
1:t:428:ASN:HB3	1:u:344:VAL:HG11	1.97	0.47
1:x:423:LEU:HD11	1:x:595:VAL:CG2	2.45	0.47
1:1:423:LEU:HD11	1:1:595:VAL:CG2	2.45	0.47
1:1:428:ASN:HB3	1:2:344:VAL:HG11	1.97	0.47
1:6:423:LEU:HD11	1:6:595:VAL:CG2	2.45	0.47
1:6:428:ASN:HB3	1:7:344:VAL:HG11	1.97	0.47
1:B:428:ASN:HB3	1:J:344:VAL:HG11	1.97	0.47
1:D:428:ASN:HB3	1:N:344:VAL:HG11	1.97	0.47
1:E:423:LEU:HD11	1:E:595:VAL:CG2	2.45	0.47
1:G:574:GLN:H	1:I:473:GLN:NE2	2.13	0.47
1:V:574:GLN:H	1:e:473:GLN:NE2	2.13	0.47
1:Z:303:ARG:NH1	1:Z:670:GLU:OE2	2.43	0.47
1:b:358:PRO:HG3	1:o:247:TYR:CE2	2.50	0.47
1:e:432:ASP:CB	1:e:453:LEU:HA	2.44	0.47
1:g:473:GLN:HE22	1:h:574:GLN:H	1.62	0.47
1:j:247:TYR:CE2	1:l:358:PRO:HG3	2.50	0.47
1:k:247:TYR:CE2	1:w:358:PRO:HG3	2.50	0.47
1:l:247:TYR:CE2	1:n:358:PRO:HG3	2.50	0.47
1:r:476:ASN:OD1	1:r:520:THR:OG1	2.26	0.47
1:t:473:GLN:NE2	1:v:574:GLN:H	2.13	0.47
1:t:574:GLN:H	1:u:473:GLN:NE2	2.12	0.47
1:w:423:LEU:HD11	1:w:595:VAL:CG2	2.45	0.47
1:x:574:GLN:H	1:y:473:GLN:NE2	2.12	0.47
1:B:432:ASP:CB	1:B:453:LEU:HA	2.44	0.47
1:D:247:TYR:CE2	1:E:358:PRO:HG3	2.50	0.47
1:E:428:ASN:HB3	1:Q:344:VAL:HG11	1.97	0.47
1:E:574:GLN:H	1:Q:473:GLN:HE22	1.62	0.47
1:F:473:GLN:NE2	1:Q:574:GLN:H	2.12	0.47
1:K:247:TYR:CE2	1:7:358:PRO:HG3	2.50	0.47
1:M:358:PRO:HG3	1:N:247:TYR:CE2	2.50	0.47
1:O:247:TYR:CE2	1:d:358:PRO:HG3	2.50	0.47
1:O:473:GLN:HE22	1:n:574:GLN:H	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:476:ASN:OD1	1:W:520:THR:OG1	2.26	0.47
1:W:722:ARG:NE	1:Y:613:GLU:HG2	2.28	0.47
1:X:247:TYR:CE2	1:f:358:PRO:HG3	2.50	0.47
1:X:358:PRO:HG3	1:Y:247:TYR:CE2	2.50	0.47
1:c:473:GLN:NE2	1:p:574:GLN:H	2.13	0.47
1:d:574:GLN:H	1:l:473:GLN:HE22	1.63	0.47
1:h:358:PRO:HG3	1:i:247:TYR:CE2	2.50	0.47
1:j:423:LEU:HD11	1:j:595:VAL:CG2	2.45	0.47
1:j:574:GLN:H	1:k:473:GLN:NE2	2.12	0.47
1:n:423:LEU:HD11	1:n:595:VAL:CG2	2.45	0.47
1:o:303:ARG:NH1	1:o:670:GLU:OE2	2.43	0.47
1:q:428:ASN:HB3	1:r:344:VAL:HG11	1.97	0.47
1:v:358:PRO:HG3	1:w:247:TYR:CE2	2.50	0.47
1:w:574:GLN:H	1:x:473:GLN:HE22	1.62	0.47
1:A:344:VAL:HG11	1:I:428:ASN:HB3	1.97	0.46
1:C:473:GLN:HE22	1:M:574:GLN:H	1.62	0.46
1:E:473:GLN:NE2	1:F:574:GLN:H	2.13	0.46
1:F:344:VAL:HG11	1:Q:428:ASN:HB3	1.97	0.46
1:F:358:PRO:HG3	1:G:247:TYR:CE2	2.50	0.46
1:H:314:VAL:HG21	1:I:646:ASN:HD22	1.80	0.46
1:H:646:ASN:HD22	1:Z:314:VAL:HG21	1.80	0.46
1:J:574:GLN:H	1:L:473:GLN:HE22	1.63	0.46
1:K:574:GLN:H	1:a:473:GLN:NE2	2.13	0.46
1:N:228:ARG:NH1	1:N:672:GLU:OE2	2.35	0.46
1:O:423:LEU:HD11	1:O:595:VAL:CG2	2.45	0.46
1:P:423:LEU:HD11	1:P:595:VAL:CG2	2.45	0.46
1:R:428:ASN:HB3	1:S:344:VAL:HG11	1.97	0.46
1:T:358:PRO:HG3	1:U:247:TYR:CE2	2.50	0.46
1:U:358:PRO:HG3	1:e:247:TYR:CE2	2.51	0.46
1:X:473:GLN:HE22	1:e:574:GLN:H	1.63	0.46
1:Z:344:VAL:HG11	1:3:428:ASN:HB3	1.97	0.46
1:Z:473:GLN:NE2	1:3:574:GLN:H	2.13	0.46
1:a:574:GLN:H	1:8:473:GLN:NE2	2.13	0.46
1:c:247:TYR:CE2	1:s:358:PRO:HG3	2.51	0.46
1:d:423:LEU:HD11	1:d:595:VAL:CG2	2.45	0.46
1:h:303:ARG:NH1	1:h:670:GLU:OE2	2.43	0.46
1:k:423:LEU:HD11	1:k:595:VAL:CG2	2.45	0.46
1:o:358:PRO:HG3	1:7:247:TYR:CE2	2.51	0.46
1:w:328:THR:O	1:w:397:ARG:NE	2.23	0.46
1:w:476:ASN:OD1	1:w:520:THR:OG1	2.26	0.46
1:x:428:ASN:HB3	1:y:344:VAL:HG11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:473:GLN:HE22	1:2:574:GLN:H	1.63	0.46
1:1:574:GLN:H	1:2:473:GLN:HE22	1.62	0.46
1:8:303:ARG:NH1	1:8:670:GLU:OE2	2.43	0.46
1:A:358:PRO:HG3	1:E:247:TYR:CE2	2.50	0.46
1:B:473:GLN:NE2	1:L:574:GLN:H	2.12	0.46
1:C:473:GLN:NE2	1:M:574:GLN:H	2.12	0.46
1:D:423:LEU:HD11	1:D:595:VAL:CG2	2.45	0.46
1:D:473:GLN:NE2	1:P:574:GLN:H	2.13	0.46
1:H:473:GLN:NE2	1:Y:574:GLN:H	2.13	0.46
1:L:358:PRO:HG3	1:b:247:TYR:CE2	2.51	0.46
1:a:428:ASN:HB3	1:8:344:VAL:HG11	1.97	0.46
1:c:574:GLN:H	1:o:473:GLN:HE22	1.63	0.46
1:f:247:TYR:CE2	1:z:358:PRO:HG3	2.51	0.46
1:j:358:PRO:HG3	1:x:247:TYR:CE2	2.50	0.46
1:l:423:LEU:HD11	1:l:595:VAL:CG2	2.45	0.46
1:m:358:PRO:HG3	1:s:247:TYR:CE2	2.50	0.46
1:o:574:GLN:H	1:p:473:GLN:HE22	1.62	0.46
1:t:247:TYR:CE2	1:y:358:PRO:HG3	2.50	0.46
1:u:428:ASN:HB3	1:v:344:VAL:HG11	1.97	0.46
1:w:473:GLN:NE2	1:y:574:GLN:H	2.13	0.46
1:y:423:LEU:HD11	1:y:595:VAL:CG2	2.45	0.46
1:1:432:ASP:CB	1:1:453:LEU:HA	2.44	0.46
1:2:423:LEU:HD11	1:2:595:VAL:CG2	2.45	0.46
1:3:473:GLN:NE2	1:4:574:GLN:H	2.13	0.46
1:5:247:TYR:CE2	1:8:358:PRO:HG3	2.50	0.46
1:B:574:GLN:H	1:J:473:GLN:HE22	1.62	0.46
1:C:574:GLN:H	1:b:473:GLN:HE22	1.63	0.46
1:F:247:TYR:CE2	1:R:358:PRO:HG3	2.51	0.46
1:F:423:LEU:HD11	1:F:595:VAL:CG2	2.45	0.46
1:M:303:ARG:NH1	1:M:670:GLU:OE2	2.43	0.46
1:M:432:ASP:CB	1:M:453:LEU:HA	2.44	0.46
1:O:344:VAL:HG11	1:n:428:ASN:HB3	1.97	0.46
1:R:247:TYR:CE2	1:V:358:PRO:HG3	2.50	0.46
1:R:574:GLN:H	1:S:473:GLN:NE2	2.12	0.46
1:f:473:GLN:HE22	1:g:574:GLN:H	1.62	0.46
1:g:473:GLN:NE2	1:h:574:GLN:H	2.12	0.46
1:p:358:PRO:HG3	1:q:247:TYR:CE2	2.50	0.46
1:q:358:PRO:HG3	1:y:247:TYR:CE2	2.51	0.46
1:q:574:GLN:H	1:r:473:GLN:NE2	2.12	0.46
1:r:247:TYR:CE2	1:x:358:PRO:HG3	2.50	0.46
1:w:428:ASN:HB3	1:x:344:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:574:GLN:H	1:x:473:GLN:NE2	2.12	0.46
1:z:574:GLN:H	1:1:473:GLN:NE2	2.13	0.46
1:5:432:ASP:CB	1:5:453:LEU:HA	2.44	0.46
1:6:476:ASN:OD1	1:6:520:THR:OG1	2.26	0.46
1:B:547:MET:HE1	1:L:436:TYR:CD1	2.51	0.46
1:C:344:VAL:HG11	1:M:428:ASN:HB3	1.97	0.46
1:C:428:ASN:HB3	1:b:344:VAL:HG11	1.98	0.46
1:C:547:MET:HE1	1:M:436:TYR:CD1	2.51	0.46
1:E:574:GLN:H	1:Q:473:GLN:NE2	2.12	0.46
1:H:432:ASP:CB	1:H:453:LEU:HA	2.44	0.46
1:J:423:LEU:HD11	1:J:595:VAL:CG2	2.45	0.46
1:J:428:ASN:HB3	1:L:344:VAL:HG11	1.97	0.46
1:O:278:PHE:CE2	1:O:601:VAL:HB	2.51	0.46
1:P:278:PHE:CE2	1:P:601:VAL:HB	2.51	0.46
1:Q:358:PRO:HG3	1:S:247:TYR:CE2	2.50	0.46
1:X:303:ARG:NH1	1:X:670:GLU:OE2	2.43	0.46
1:Y:358:PRO:HG3	1:4:247:TYR:CE2	2.51	0.46
1:a:574:GLN:H	1:8:473:GLN:HE22	1.63	0.46
1:b:476:ASN:OD1	1:b:520:THR:OG1	2.26	0.46
1:d:428:ASN:HB3	1:l:344:VAL:HG11	1.97	0.46
1:e:476:ASN:OD1	1:e:520:THR:OG1	2.26	0.46
1:f:344:VAL:HG11	1:g:428:ASN:HB3	1.98	0.46
1:h:432:ASP:CB	1:h:453:LEU:HA	2.44	0.46
1:m:574:GLN:H	1:n:473:GLN:NE2	2.13	0.46
1:w:344:VAL:HG11	1:y:428:ASN:HB3	1.97	0.46
1:z:344:VAL:HG11	1:2:428:ASN:HB3	1.97	0.46
1:z:436:TYR:CD1	1:1:547:MET:HE1	2.51	0.46
1:1:404:PHE:HZ	1:1:634:PRO:HG2	1.78	0.46
1:3:423:LEU:HD11	1:3:595:VAL:CG2	2.45	0.46
1:5:473:GLN:HE22	1:7:574:GLN:H	1.62	0.46
1:A:366:TYR:CD2	1:A:388:LEU:HD11	2.51	0.46
1:B:344:VAL:HG11	1:L:428:ASN:HB3	1.97	0.46
1:E:328:THR:O	1:E:397:ARG:NE	2.23	0.46
1:E:344:VAL:HG11	1:F:428:ASN:HB3	1.97	0.46
1:H:278:PHE:CE2	1:H:601:VAL:HB	2.51	0.46
1:R:559:ASN:HD21	1:R:597:MET:HB2	1.81	0.46
1:T:574:GLN:H	1:d:473:GLN:NE2	2.13	0.46
1:V:473:GLN:HE22	1:X:574:GLN:H	1.62	0.46
1:V:547:MET:HE1	1:X:436:TYR:CD1	2.51	0.46
1:Z:473:GLN:HE22	1:3:574:GLN:H	1.63	0.46
1:Z:547:MET:HE1	1:3:436:TYR:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:358:PRO:HG3	1:h:247:TYR:CE2	2.50	0.46
1:g:344:VAL:HG11	1:h:428:ASN:HB3	1.97	0.46
1:g:547:MET:HE1	1:h:436:TYR:CD1	2.51	0.46
1:i:465:PHE:HE1	1:j:504:VAL:HB	1.81	0.46
1:j:278:PHE:CE2	1:j:601:VAL:HB	2.51	0.46
1:l:278:PHE:CE2	1:l:601:VAL:HB	2.51	0.46
1:o:436:TYR:CD1	1:p:547:MET:HE1	2.51	0.46
1:q:559:ASN:HD21	1:q:597:MET:HB2	1.81	0.46
1:t:473:GLN:HE22	1:v:574:GLN:H	1.62	0.46
1:u:247:TYR:CE2	1:5:358:PRO:HG3	2.50	0.46
1:z:428:ASN:HB3	1:1:344:VAL:HG11	1.97	0.46
1:1:366:TYR:CD2	1:1:388:LEU:HD11	2.51	0.46
1:3:278:PHE:CE2	1:3:601:VAL:HB	2.51	0.46
1:5:278:PHE:CE2	1:5:601:VAL:HB	2.51	0.46
1:5:428:ASN:HB3	1:6:344:VAL:HG11	1.97	0.46
1:A:574:GLN:H	1:G:473:GLN:HE22	1.63	0.46
1:B:404:PHE:HZ	1:B:634:PRO:HG2	1.78	0.46
1:C:436:TYR:CD1	1:b:547:MET:HE1	2.51	0.46
1:D:559:ASN:HD21	1:D:597:MET:HB2	1.81	0.46
1:H:574:GLN:H	1:W:473:GLN:NE2	2.14	0.46
1:J:358:PRO:HG3	1:a:247:TYR:CE2	2.50	0.46
1:L:278:PHE:CE2	1:L:601:VAL:HB	2.51	0.46
1:M:247:TYR:CE2	1:c:358:PRO:HG3	2.50	0.46
1:P:358:PRO:HG3	1:Q:247:TYR:CE2	2.51	0.46
1:Q:278:PHE:CE2	1:Q:601:VAL:HB	2.51	0.46
1:R:344:VAL:HG11	1:U:428:ASN:HB3	1.97	0.46
1:R:423:LEU:HD11	1:R:595:VAL:CG2	2.45	0.46
1:S:366:TYR:CD2	1:S:388:LEU:HD11	2.51	0.46
1:W:436:TYR:CD1	1:Y:547:MET:HE1	2.51	0.46
1:a:278:PHE:CE2	1:a:601:VAL:HB	2.51	0.46
1:a:423:LEU:HD11	1:a:595:VAL:CG2	2.45	0.46
1:a:436:TYR:CD1	1:8:547:MET:HE1	2.51	0.46
1:b:278:PHE:CE2	1:b:601:VAL:HB	2.51	0.46
1:f:278:PHE:CE2	1:f:601:VAL:HB	2.51	0.46
1:i:303:ARG:NH1	1:i:670:GLU:OE2	2.43	0.46
1:p:423:LEU:HD11	1:p:595:VAL:CG2	2.45	0.46
1:r:366:TYR:CD2	1:r:388:LEU:HD11	2.51	0.46
1:v:366:TYR:CD2	1:v:388:LEU:HD11	2.51	0.46
1:v:693:TYR:OH	1:v:700:ASP:OD2	2.29	0.46
1:z:278:PHE:CE2	1:z:601:VAL:HB	2.51	0.46
1:2:358:PRO:HG3	1:3:247:TYR:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:LEU:HD11	1:A:595:VAL:CG2	2.45	0.46
1:B:366:TYR:CD2	1:B:388:LEU:HD11	2.51	0.46
1:D:278:PHE:CE2	1:D:601:VAL:HB	2.51	0.46
1:H:400:ASN:ND2	1:Z:214:ALA:H	2.14	0.46
1:H:436:TYR:CD1	1:W:547:MET:HE1	2.51	0.46
1:H:547:MET:HE1	1:Y:436:TYR:CD1	2.50	0.46
1:H:623:ALA:HB2	1:Y:465:PHE:HE2	1.80	0.46
1:K:436:TYR:CD1	1:a:547:MET:HE1	2.51	0.46
1:N:465:PHE:HE1	1:P:504:VAL:HB	1.81	0.46
1:S:574:GLN:H	1:U:473:GLN:NE2	2.13	0.46
1:T:278:PHE:CE2	1:T:601:VAL:HB	2.51	0.46
1:U:366:TYR:CD2	1:U:388:LEU:HD11	2.51	0.46
1:V:423:LEU:HD11	1:V:595:VAL:CG2	2.45	0.46
1:V:559:ASN:HD21	1:V:597:MET:HB2	1.81	0.46
1:W:366:TYR:CD2	1:W:388:LEU:HD11	2.51	0.46
1:W:428:ASN:HB3	1:Y:344:VAL:HG11	1.98	0.46
1:a:476:ASN:OD1	1:a:520:THR:OG1	2.26	0.46
1:b:559:ASN:HD21	1:b:597:MET:HB2	1.81	0.46
1:f:366:TYR:CD2	1:f:388:LEU:HD11	2.51	0.46
1:f:436:TYR:CD1	1:h:547:MET:HE1	2.51	0.46
1:f:547:MET:HE1	1:g:436:TYR:CD1	2.51	0.46
1:f:559:ASN:HD21	1:f:597:MET:HB2	1.81	0.46
1:m:278:PHE:CE2	1:m:601:VAL:HB	2.51	0.46
1:q:423:LEU:HD11	1:q:595:VAL:CG2	2.45	0.46
1:s:366:TYR:CD2	1:s:388:LEU:HD11	2.51	0.46
1:z:459:ASN:OD1	1:z:459:ASN:N	2.46	0.46
1:3:547:MET:HE1	1:4:436:TYR:CD1	2.51	0.46
1:6:366:TYR:CD2	1:6:388:LEU:HD11	2.51	0.46
1:7:278:PHE:CE2	1:7:601:VAL:HB	2.51	0.46
1:A:465:PHE:HE2	1:G:623:ALA:HB2	1.81	0.46
1:G:358:PRO:HG3	1:W:247:TYR:CE2	2.50	0.46
1:I:366:TYR:CD2	1:I:388:LEU:HD11	2.51	0.46
1:J:366:TYR:CD2	1:J:388:LEU:HD11	2.51	0.46
1:L:459:ASN:OD1	1:L:459:ASN:N	2.46	0.46
1:M:547:MET:HE1	1:b:436:TYR:CD1	2.51	0.46
1:N:303:ARG:NH1	1:N:670:GLU:OE2	2.43	0.46
1:R:366:TYR:CD2	1:R:388:LEU:HD11	2.51	0.46
1:R:473:GLN:HE22	1:U:574:GLN:H	1.63	0.46
1:R:547:MET:HE1	1:U:436:TYR:CD1	2.51	0.46
1:T:547:MET:HE1	1:l:436:TYR:CD1	2.51	0.46
1:V:247:TYR:CE2	1:W:358:PRO:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:278:PHE:CE2	1:X:601:VAL:HB	2.51	0.46
1:Y:423:LEU:HD11	1:Y:595:VAL:CG2	2.45	0.46
1:Z:247:TYR:CE2	1:a:358:PRO:HG3	2.50	0.46
1:a:366:TYR:CD2	1:a:388:LEU:HD11	2.51	0.46
1:b:366:TYR:CD2	1:b:388:LEU:HD11	2.51	0.46
1:d:366:TYR:CD2	1:d:388:LEU:HD11	2.51	0.46
1:d:559:ASN:HD21	1:d:597:MET:HB2	1.81	0.46
1:f:476:ASN:OD1	1:f:520:THR:OG1	2.26	0.46
1:g:423:LEU:HD11	1:g:595:VAL:CG2	2.45	0.46
1:k:559:ASN:HD21	1:k:597:MET:HB2	1.81	0.46
1:n:366:TYR:CD2	1:n:388:LEU:HD11	2.51	0.46
1:n:559:ASN:HD21	1:n:597:MET:HB2	1.81	0.46
1:p:247:TYR:CE2	1:6:358:PRO:HG3	2.51	0.46
1:p:559:ASN:HD21	1:p:597:MET:HB2	1.81	0.46
1:q:366:TYR:CD2	1:q:388:LEU:HD11	2.51	0.46
1:r:574:GLN:H	1:s:473:GLN:NE2	2.13	0.46
1:s:303:ARG:NH1	1:s:670:GLU:OE2	2.43	0.46
1:u:366:TYR:CD2	1:u:388:LEU:HD11	2.51	0.46
1:v:423:LEU:HD11	1:v:595:VAL:CG2	2.45	0.46
1:x:278:PHE:CE2	1:x:601:VAL:HB	2.51	0.46
1:3:358:PRO:HG3	1:8:247:TYR:CE2	2.50	0.46
1:3:366:TYR:CD2	1:3:388:LEU:HD11	2.51	0.46
1:3:476:ASN:OD1	1:3:520:THR:OG1	2.26	0.46
1:4:423:LEU:HD11	1:4:595:VAL:CG2	2.45	0.46
1:7:423:LEU:HD11	1:7:595:VAL:CG2	2.45	0.46
1:A:623:ALA:HB2	1:I:465:PHE:HE2	1.81	0.46
1:B:247:TYR:CE2	1:C:358:PRO:HG3	2.50	0.46
1:B:278:PHE:CE2	1:B:601:VAL:HB	2.51	0.46
1:C:423:LEU:HD11	1:C:595:VAL:CG2	2.45	0.46
1:D:344:VAL:HG11	1:P:428:ASN:HB3	1.97	0.46
1:F:366:TYR:CD2	1:F:388:LEU:HD11	2.51	0.46
1:H:505:PRO:HD2	1:Y:460:THR:O	2.16	0.46
1:J:278:PHE:CE2	1:J:601:VAL:HB	2.51	0.46
1:K:366:TYR:CD2	1:K:388:LEU:HD11	2.51	0.46
1:K:623:ALA:HB2	1:8:465:PHE:HE2	1.81	0.46
1:O:436:TYR:CD1	1:m:547:MET:HE1	2.51	0.46
1:O:547:MET:HE1	1:n:436:TYR:CD1	2.51	0.46
1:P:366:TYR:CD2	1:P:388:LEU:HD11	2.51	0.46
1:P:559:ASN:HD21	1:P:597:MET:HB2	1.81	0.46
1:R:465:PHE:HE2	1:S:623:ALA:HB2	1.81	0.46
1:S:358:PRO:HG3	1:d:247:TYR:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:278:PHE:CE2	1:U:601:VAL:HB	2.51	0.46
1:Y:278:PHE:CE2	1:Y:601:VAL:HB	2.51	0.46
1:Z:465:PHE:HE2	1:4:623:ALA:HB2	1.81	0.46
1:c:476:ASN:OD1	1:c:520:THR:OG1	2.26	0.46
1:d:436:TYR:CD1	1:l:547:MET:HE1	2.51	0.46
1:g:358:PRO:HG3	1:1:247:TYR:CE2	2.50	0.46
1:h:423:LEU:HD11	1:h:595:VAL:CG2	2.45	0.46
1:j:428:ASN:HB3	1:k:344:VAL:HG11	1.97	0.46
1:j:559:ASN:HD21	1:j:597:MET:HB2	1.81	0.46
1:k:278:PHE:CE2	1:k:601:VAL:HB	2.51	0.46
1:k:459:ASN:OD1	1:k:459:ASN:N	2.46	0.46
1:m:428:ASN:HB3	1:n:344:VAL:HG11	1.97	0.46
1:n:247:TYR:CE2	1:r:358:PRO:HG3	2.50	0.46
1:n:278:PHE:CE2	1:n:601:VAL:HB	2.51	0.46
1:o:278:PHE:CE2	1:o:601:VAL:HB	2.51	0.46
1:o:559:ASN:HD21	1:o:597:MET:HB2	1.81	0.46
1:q:344:VAL:HG11	1:s:428:ASN:HB3	1.98	0.46
1:q:465:PHE:HE2	1:r:623:ALA:HB2	1.81	0.46
1:q:473:GLN:HE22	1:s:574:GLN:H	1.63	0.46
1:q:547:MET:HE1	1:s:436:TYR:CD1	2.51	0.46
1:t:358:PRO:HG3	1:6:247:TYR:CE2	2.50	0.46
1:u:465:PHE:HE2	1:v:623:ALA:HB2	1.81	0.46
1:u:559:ASN:HD21	1:u:597:MET:HB2	1.81	0.46
1:z:366:TYR:CD2	1:z:388:LEU:HD11	2.51	0.46
1:1:278:PHE:CE2	1:1:601:VAL:HB	2.51	0.46
1:2:278:PHE:CE2	1:2:601:VAL:HB	2.51	0.46
1:2:366:TYR:CD2	1:2:388:LEU:HD11	2.51	0.46
1:5:344:VAL:HG11	1:7:428:ASN:HB3	1.97	0.46
1:A:278:PHE:CE2	1:A:601:VAL:HB	2.51	0.46
1:A:547:MET:HE1	1:I:436:TYR:CD1	2.51	0.46
1:C:366:TYR:CD2	1:C:388:LEU:HD11	2.51	0.46
1:D:459:ASN:OD1	1:D:459:ASN:N	2.46	0.46
1:I:559:ASN:HD21	1:I:597:MET:HB2	1.81	0.46
1:J:559:ASN:HD21	1:J:597:MET:HB2	1.81	0.46
1:K:278:PHE:CE2	1:K:601:VAL:HB	2.51	0.46
1:K:358:PRO:HG3	1:L:247:TYR:CE2	2.51	0.46
1:K:423:LEU:HD11	1:K:595:VAL:CG2	2.45	0.46
1:L:366:TYR:CD2	1:L:388:LEU:HD11	2.51	0.46
1:M:238:VAL:CG2	1:N:644:PRO:HG2	2.46	0.46
1:M:423:LEU:HD11	1:M:595:VAL:CG2	2.45	0.46
1:O:428:ASN:HB3	1:m:344:VAL:HG11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:428:ASN:HB3	1:d:344:VAL:HG11	1.97	0.46
1:X:228:ARG:NH1	1:X:672:GLU:OE2	2.35	0.46
1:X:344:VAL:HG11	1:e:428:ASN:HB3	1.97	0.46
1:X:547:MET:HE1	1:e:436:TYR:CD1	2.51	0.46
1:X:559:ASN:HD21	1:X:597:MET:HB2	1.81	0.46
1:Y:366:TYR:CD2	1:Y:388:LEU:HD11	2.51	0.46
1:Z:366:TYR:CD2	1:Z:388:LEU:HD11	2.51	0.46
1:b:423:LEU:HD11	1:b:595:VAL:CG2	2.45	0.46
1:c:436:TYR:CD1	1:o:547:MET:HE1	2.51	0.46
1:d:278:PHE:CE2	1:d:601:VAL:HB	2.51	0.46
1:g:247:TYR:CE2	1:k:358:PRO:HG3	2.51	0.46
1:g:366:TYR:CD2	1:g:388:LEU:HD11	2.51	0.46
1:j:366:TYR:CD2	1:j:388:LEU:HD11	2.51	0.46
1:l:366:TYR:CD2	1:l:388:LEU:HD11	2.51	0.46
1:m:436:TYR:CD1	1:n:547:MET:HE1	2.51	0.46
1:o:228:ARG:NH1	1:o:672:GLU:OE2	2.35	0.46
1:s:278:PHE:CE2	1:s:601:VAL:HB	2.51	0.46
1:t:623:ALA:HB2	1:v:465:PHE:HE2	1.81	0.46
1:u:436:TYR:CD1	1:v:547:MET:HE1	2.51	0.46
1:v:278:PHE:CE2	1:v:601:VAL:HB	2.51	0.46
1:y:366:TYR:CD2	1:y:388:LEU:HD11	2.51	0.46
1:2:559:ASN:HD21	1:2:597:MET:HB2	1.81	0.46
1:4:278:PHE:CE2	1:4:601:VAL:HB	2.51	0.46
1:B:623:ALA:HB2	1:L:465:PHE:HE2	1.81	0.45
1:C:247:TYR:CE2	1:D:358:PRO:HG3	2.51	0.45
1:D:436:TYR:CD1	1:N:547:MET:HE1	2.51	0.45
1:F:559:ASN:HD21	1:F:597:MET:HB2	1.81	0.45
1:F:623:ALA:HB2	1:Q:465:PHE:HE2	1.81	0.45
1:G:559:ASN:HD21	1:G:597:MET:HB2	1.81	0.45
1:H:366:TYR:CD2	1:H:388:LEU:HD11	2.51	0.45
1:H:473:GLN:HE22	1:Y:574:GLN:H	1.63	0.45
1:K:344:VAL:HG11	1:8:428:ASN:HB3	1.97	0.45
1:M:278:PHE:CE2	1:M:601:VAL:HB	2.51	0.45
1:O:366:TYR:CD2	1:O:388:LEU:HD11	2.51	0.45
1:Q:366:TYR:CD2	1:Q:388:LEU:HD11	2.51	0.45
1:S:436:TYR:CD1	1:U:547:MET:HE1	2.51	0.45
1:T:247:TYR:CE2	1:i:358:PRO:HG3	2.50	0.45
1:T:344:VAL:HG11	1:l:428:ASN:HB3	1.97	0.45
1:T:436:TYR:CD1	1:d:547:MET:HE1	2.51	0.45
1:T:574:GLN:H	1:d:473:GLN:HE22	1.62	0.45
1:V:428:ASN:HB3	1:e:344:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:465:PHE:HE2	1:Y:623:ALA:HB2	1.82	0.45
1:W:554:GLU:HB2	1:Y:382:ARG:HH12	1.82	0.45
1:X:599:ARG:HD2	1:X:624:MET:O	2.17	0.45
1:X:623:ALA:HB2	1:e:465:PHE:HE2	1.81	0.45
1:Z:278:PHE:CE2	1:Z:601:VAL:HB	2.51	0.45
1:c:344:VAL:HG11	1:p:428:ASN:HB3	1.98	0.45
1:c:428:ASN:HB3	1:o:344:VAL:HG11	1.97	0.45
1:c:547:MET:HE1	1:p:436:TYR:CD1	2.51	0.45
1:i:559:ASN:HD21	1:i:597:MET:HB2	1.81	0.45
1:o:599:ARG:HD2	1:o:624:MET:O	2.17	0.45
1:p:366:TYR:CD2	1:p:388:LEU:HD11	2.51	0.45
1:r:436:TYR:CD1	1:s:547:MET:HE1	2.51	0.45
1:s:559:ASN:HD21	1:s:597:MET:HB2	1.81	0.45
1:t:559:ASN:HD21	1:t:597:MET:HB2	1.81	0.45
1:w:547:MET:HE1	1:y:436:TYR:CD1	2.51	0.45
1:x:366:TYR:CD2	1:x:388:LEU:HD11	2.51	0.45
1:x:465:PHE:HE2	1:y:623:ALA:HB2	1.81	0.45
1:y:559:ASN:HD21	1:y:597:MET:HB2	1.81	0.45
1:z:247:TYR:CE2	1:4:358:PRO:HG3	2.51	0.45
1:4:366:TYR:CD2	1:4:388:LEU:HD11	2.51	0.45
1:7:366:TYR:CD2	1:7:388:LEU:HD11	2.51	0.45
1:8:366:TYR:CD2	1:8:388:LEU:HD11	2.51	0.45
1:E:623:ALA:HB2	1:F:465:PHE:HE2	1.81	0.45
1:G:436:TYR:CD1	1:I:547:MET:HE1	2.51	0.45
1:I:476:ASN:OD1	1:I:520:THR:OG1	2.26	0.45
1:L:423:LEU:HD11	1:L:595:VAL:CG2	2.45	0.45
1:M:344:VAL:HG11	1:b:428:ASN:HB3	1.97	0.45
1:M:473:GLN:NE2	1:b:574:GLN:H	2.13	0.45
1:N:428:ASN:HB3	1:P:344:VAL:HG11	1.98	0.45
1:O:303:ARG:NH1	1:O:670:GLU:OE2	2.43	0.45
1:U:303:ARG:NH1	1:U:670:GLU:OE2	2.43	0.45
1:U:559:ASN:HD21	1:U:597:MET:HB2	1.81	0.45
1:V:366:TYR:CD2	1:V:388:LEU:HD11	2.51	0.45
1:V:436:TYR:CD1	1:e:547:MET:HE1	2.51	0.45
1:V:623:ALA:HB2	1:X:465:PHE:HE2	1.81	0.45
1:X:238:VAL:CG2	1:Y:644:PRO:HG2	2.46	0.45
1:c:465:PHE:HE2	1:o:623:ALA:HB2	1.81	0.45
1:e:423:LEU:HD11	1:e:595:VAL:CG2	2.45	0.45
1:f:303:ARG:NH1	1:f:670:GLU:OE2	2.43	0.45
1:f:423:LEU:HD11	1:f:595:VAL:CG2	2.45	0.45
1:h:238:VAL:CG2	1:i:644:PRO:HG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:278:PHE:CE2	1:h:601:VAL:HB	2.51	0.45
1:i:547:MET:HE1	1:k:436:TYR:CD1	2.51	0.45
1:w:436:TYR:CD1	1:x:547:MET:HE1	2.51	0.45
1:w:623:ALA:HB2	1:y:465:PHE:HE2	1.81	0.45
1:z:465:PHE:HE2	1:1:623:ALA:HB2	1.81	0.45
1:z:547:MET:HE1	1:2:436:TYR:CD1	2.51	0.45
1:5:366:TYR:CD2	1:5:388:LEU:HD11	2.51	0.45
1:6:436:TYR:CD1	1:7:547:MET:HE1	2.52	0.45
1:6:465:PHE:HE2	1:7:623:ALA:HB2	1.82	0.45
1:8:278:PHE:CE2	1:8:601:VAL:HB	2.51	0.45
1:B:515:LEU:HD12	1:B:556:GLN:OE1	2.17	0.45
1:C:515:LEU:HD12	1:C:556:GLN:OE1	2.17	0.45
1:D:366:TYR:CD2	1:D:388:LEU:HD11	2.51	0.45
1:E:436:TYR:CD1	1:Q:547:MET:HE1	2.51	0.45
1:E:547:MET:HE1	1:F:436:TYR:CD1	2.51	0.45
1:F:278:PHE:CE2	1:F:601:VAL:HB	2.51	0.45
1:F:547:MET:HE1	1:Q:436:TYR:CD1	2.51	0.45
1:I:358:PRO:HG3	1:J:247:TYR:CE2	2.51	0.45
1:J:436:TYR:CD1	1:L:547:MET:HE1	2.51	0.45
1:J:599:ARG:HD2	1:J:624:MET:O	2.17	0.45
1:L:559:ASN:HD21	1:L:597:MET:HB2	1.81	0.45
1:M:476:ASN:OD1	1:M:520:THR:OG1	2.26	0.45
1:O:504:VAL:HB	1:n:465:PHE:HE1	1.82	0.45
1:O:505:PRO:HD2	1:n:460:THR:O	2.17	0.45
1:O:623:ALA:HB2	1:n:465:PHE:HE2	1.81	0.45
1:R:459:ASN:OD1	1:R:459:ASN:N	2.46	0.45
1:T:599:ARG:HD2	1:T:624:MET:O	2.17	0.45
1:X:366:TYR:CD2	1:X:388:LEU:HD11	2.51	0.45
1:Z:436:TYR:CD1	1:4:547:MET:HE1	2.51	0.45
1:c:599:ARG:HD2	1:c:624:MET:O	2.17	0.45
1:d:460:THR:O	1:l:505:PRO:HD2	2.17	0.45
1:d:465:PHE:HE1	1:l:504:VAL:HB	1.82	0.45
1:d:465:PHE:HE2	1:l:623:ALA:HB2	1.81	0.45
1:e:599:ARG:HD2	1:e:624:MET:O	2.17	0.45
1:f:428:ASN:HB3	1:h:344:VAL:HG11	1.97	0.45
1:i:428:ASN:HB3	1:j:344:VAL:HG11	1.98	0.45
1:k:366:TYR:CD2	1:k:388:LEU:HD11	2.51	0.45
1:o:460:THR:O	1:p:505:PRO:HD2	2.17	0.45
1:q:504:VAL:HB	1:s:465:PHE:HE1	1.82	0.45
1:t:436:TYR:CD1	1:u:547:MET:HE1	2.51	0.45
1:z:423:LEU:HD11	1:z:595:VAL:CG2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:559:ASN:HD21	1:z:597:MET:HB2	1.81	0.45
1:1:515:LEU:HD12	1:1:556:GLN:OE1	2.17	0.45
1:2:599:ARG:HD2	1:2:624:MET:O	2.17	0.45
1:3:623:ALA:HB2	1:4:465:PHE:HE2	1.81	0.45
1:8:476:ASN:OD1	1:8:520:THR:OG1	2.26	0.45
1:A:504:VAL:HB	1:I:465:PHE:HE1	1.82	0.45
1:E:505:PRO:HD2	1:F:460:THR:O	2.17	0.45
1:I:395:MET:HE3	1:I:641:THR:HG21	1.99	0.45
1:J:465:PHE:HE2	1:L:623:ALA:HB2	1.82	0.45
1:K:465:PHE:HE2	1:a:623:ALA:HB2	1.81	0.45
1:N:358:PRO:HG3	1:m:247:TYR:CE2	2.51	0.45
1:N:559:ASN:HD21	1:N:597:MET:HB2	1.81	0.45
1:P:599:ARG:HD2	1:P:624:MET:O	2.17	0.45
1:Q:559:ASN:HD21	1:Q:597:MET:HB2	1.81	0.45
1:V:344:VAL:HG11	1:X:428:ASN:HB3	1.97	0.45
1:V:505:PRO:HD2	1:X:460:THR:O	2.17	0.45
1:X:504:VAL:HB	1:e:465:PHE:HE1	1.82	0.45
1:Z:428:ASN:HB3	1:4:344:VAL:HG11	1.97	0.45
1:b:303:ARG:NH1	1:b:670:GLU:OE2	2.43	0.45
1:b:599:ARG:HD2	1:b:624:MET:O	2.17	0.45
1:c:423:LEU:HD11	1:c:595:VAL:CG2	2.45	0.45
1:c:465:PHE:HE1	1:o:504:VAL:HB	1.82	0.45
1:f:574:GLN:H	1:h:473:GLN:NE2	2.13	0.45
1:f:599:ARG:HD2	1:f:624:MET:O	2.17	0.45
1:g:515:LEU:HD12	1:g:556:GLN:OE1	2.17	0.45
1:h:599:ARG:HD2	1:h:624:MET:O	2.17	0.45
1:m:574:GLN:H	1:n:473:GLN:HE22	1.62	0.45
1:m:599:ARG:HD2	1:m:624:MET:O	2.17	0.45
1:o:465:PHE:HE2	1:p:623:ALA:HB2	1.81	0.45
1:t:278:PHE:CE2	1:t:601:VAL:HB	2.51	0.45
1:t:366:TYR:CD2	1:t:388:LEU:HD11	2.51	0.45
1:u:358:PRO:HG3	1:2:247:TYR:CE2	2.50	0.45
1:w:228:ARG:NH1	1:w:672:GLU:OE2	2.35	0.45
1:w:505:PRO:HD2	1:y:460:THR:O	2.17	0.45
1:x:459:ASN:OD1	1:x:459:ASN:N	2.46	0.45
1:x:559:ASN:HD21	1:x:597:MET:HB2	1.81	0.45
1:5:465:PHE:HE2	1:6:623:ALA:HB2	1.81	0.45
1:5:623:ALA:HB2	1:7:465:PHE:HE2	1.81	0.45
1:8:423:LEU:HD11	1:8:595:VAL:CG2	2.45	0.45
1:B:559:ASN:HD21	1:B:597:MET:HB2	1.81	0.45
1:D:547:MET:HE1	1:P:436:TYR:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:644:PRO:HG2	1:E:238:VAL:CG2	2.47	0.45
1:E:366:TYR:CD2	1:E:388:LEU:HD11	2.51	0.45
1:E:559:ASN:HD21	1:E:597:MET:HB2	1.81	0.45
1:G:366:TYR:CD2	1:G:388:LEU:HD11	2.51	0.45
1:G:465:PHE:HE1	1:I:504:VAL:HB	1.82	0.45
1:H:344:VAL:HG11	1:Y:428:ASN:HB3	1.97	0.45
1:I:278:PHE:CE2	1:I:601:VAL:HB	2.51	0.45
1:J:465:PHE:HE1	1:L:504:VAL:HB	1.82	0.45
1:K:547:MET:HE1	1:8:436:TYR:CD1	2.51	0.45
1:M:366:TYR:CD2	1:M:388:LEU:HD11	2.51	0.45
1:M:406:TYR:OH	1:M:631:HIS:O	2.30	0.45
1:M:599:ARG:HD2	1:M:624:MET:O	2.17	0.45
1:R:278:PHE:CE2	1:R:601:VAL:HB	2.51	0.45
1:R:504:VAL:HB	1:U:465:PHE:HE1	1.82	0.45
1:R:515:LEU:HD12	1:R:556:GLN:OE1	2.17	0.45
1:T:366:TYR:CD2	1:T:388:LEU:HD11	2.51	0.45
1:U:228:ARG:NH1	1:U:672:GLU:OE2	2.35	0.45
1:U:476:ASN:OD1	1:U:520:THR:OG1	2.26	0.45
1:W:395:MET:HE3	1:W:641:THR:HG21	1.99	0.45
1:W:515:LEU:HD12	1:W:556:GLN:OE1	2.17	0.45
1:W:559:ASN:HD21	1:W:597:MET:HB2	1.81	0.45
1:c:278:PHE:CE2	1:c:601:VAL:HB	2.51	0.45
1:e:559:ASN:HD21	1:e:597:MET:HB2	1.81	0.45
1:g:599:ARG:HD2	1:g:624:MET:O	2.17	0.45
1:h:476:ASN:OD1	1:h:520:THR:OG1	2.26	0.45
1:j:599:ARG:HD2	1:j:624:MET:O	2.17	0.45
1:l:303:ARG:NH1	1:l:670:GLU:OE2	2.43	0.45
1:l:599:ARG:HD2	1:l:624:MET:O	2.17	0.45
1:m:366:TYR:CD2	1:m:388:LEU:HD11	2.51	0.45
1:o:366:TYR:CD2	1:o:388:LEU:HD11	2.51	0.45
1:q:278:PHE:CE2	1:q:601:VAL:HB	2.51	0.45
1:q:395:MET:HE3	1:q:641:THR:HG21	1.99	0.45
1:q:459:ASN:OD1	1:q:459:ASN:N	2.46	0.45
1:s:476:ASN:OD1	1:s:520:THR:OG1	2.26	0.45
1:t:465:PHE:HE1	1:u:504:VAL:HB	1.82	0.45
1:u:395:MET:HE3	1:u:641:THR:HG21	1.99	0.45
1:u:476:ASN:OD1	1:u:520:THR:OG1	2.26	0.45
1:u:599:ARG:HD2	1:u:624:MET:O	2.17	0.45
1:x:303:ARG:NH1	1:x:670:GLU:OE2	2.43	0.45
1:x:436:TYR:CD1	1:y:547:MET:HE1	2.51	0.45
1:y:278:PHE:CE2	1:y:601:VAL:HB	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:623:ALA:HB2	1:2:465:PHE:HE2	1.82	0.45
1:3:505:PRO:HD2	1:4:460:THR:O	2.17	0.45
1:6:515:LEU:HD12	1:6:556:GLN:OE1	2.17	0.45
1:8:395:MET:HE3	1:8:641:THR:HG21	1.99	0.45
1:A:275:PHE:CE1	1:A:302:LEU:HD11	2.52	0.45
1:A:436:TYR:CD1	1:G:547:MET:HE1	2.51	0.45
1:B:275:PHE:CE1	1:B:302:LEU:HD11	2.52	0.45
1:B:436:TYR:CD1	1:J:547:MET:HE1	2.51	0.45
1:C:504:VAL:HB	1:M:465:PHE:HE1	1.82	0.45
1:C:599:ARG:HD2	1:C:624:MET:O	2.17	0.45
1:D:554:GLU:HB2	1:N:382:ARG:HH12	1.82	0.45
1:E:465:PHE:HE1	1:Q:504:VAL:HB	1.82	0.45
1:F:599:ARG:HD2	1:F:624:MET:O	2.17	0.45
1:G:278:PHE:CE2	1:G:601:VAL:HB	2.51	0.45
1:I:275:PHE:CE1	1:I:302:LEU:HD11	2.52	0.45
1:I:599:ARG:HD2	1:I:624:MET:O	2.17	0.45
1:K:238:VAL:CG2	1:L:644:PRO:HG2	2.47	0.45
1:K:428:ASN:HB3	1:a:344:VAL:HG11	1.97	0.45
1:K:460:THR:O	1:a:505:PRO:HD2	2.17	0.45
1:K:465:PHE:HE1	1:a:504:VAL:HB	1.82	0.45
1:K:574:GLN:H	1:a:473:GLN:HE22	1.62	0.45
1:L:275:PHE:CE1	1:L:302:LEU:HD11	2.52	0.45
1:O:599:ARG:HD2	1:O:624:MET:O	2.17	0.45
1:Q:395:MET:HE3	1:Q:641:THR:HG21	1.99	0.45
1:Q:459:ASN:OD1	1:Q:459:ASN:N	2.46	0.45
1:R:395:MET:HE3	1:R:641:THR:HG21	1.99	0.45
1:S:278:PHE:CE2	1:S:601:VAL:HB	2.51	0.45
1:Z:395:MET:HE3	1:Z:641:THR:HG21	1.99	0.45
1:Z:504:VAL:HB	1:3:465:PHE:HE1	1.82	0.45
1:Z:623:ALA:HB2	1:3:465:PHE:HE2	1.81	0.45
1:a:465:PHE:HE1	1:8:504:VAL:HB	1.82	0.45
1:a:465:PHE:HE2	1:8:623:ALA:HB2	1.81	0.45
1:f:459:ASN:OD1	1:f:459:ASN:N	2.46	0.45
1:f:504:VAL:HB	1:g:465:PHE:HE1	1.82	0.45
1:g:504:VAL:HB	1:h:465:PHE:HE1	1.82	0.45
1:k:644:PRO:HG2	1:w:238:VAL:CG2	2.47	0.45
1:n:459:ASN:OD1	1:n:459:ASN:N	2.46	0.45
1:o:428:ASN:HB3	1:p:344:VAL:HG11	1.97	0.45
1:p:278:PHE:CE2	1:p:601:VAL:HB	2.51	0.45
1:q:515:LEU:HD12	1:q:556:GLN:OE1	2.17	0.45
1:s:228:ARG:NH1	1:s:672:GLU:OE2	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:504:VAL:HB	1:v:465:PHE:HE1	1.82	0.45
1:u:275:PHE:CE1	1:u:302:LEU:HD11	2.52	0.45
1:u:278:PHE:CE2	1:u:601:VAL:HB	2.51	0.45
1:u:465:PHE:HE1	1:v:504:VAL:HB	1.82	0.45
1:v:275:PHE:CE1	1:v:302:LEU:HD11	2.52	0.45
1:w:366:TYR:CD2	1:w:388:LEU:HD11	2.51	0.45
1:w:465:PHE:HE1	1:x:504:VAL:HB	1.82	0.45
1:w:559:ASN:HD21	1:w:597:MET:HB2	1.81	0.45
1:x:275:PHE:CE1	1:x:302:LEU:HD11	2.52	0.45
1:x:460:THR:O	1:y:505:PRO:HD2	2.17	0.45
1:x:599:ARG:HD2	1:x:624:MET:O	2.17	0.45
1:z:275:PHE:CE1	1:z:302:LEU:HD11	2.52	0.45
1:z:504:VAL:HB	1:2:465:PHE:HE1	1.82	0.45
1:z:644:PRO:HG2	1:4:238:VAL:CG2	2.47	0.45
1:1:275:PHE:CE1	1:1:302:LEU:HD11	2.52	0.45
1:1:559:ASN:HD21	1:1:597:MET:HB2	1.81	0.45
1:5:436:TYR:CD1	1:6:547:MET:HE1	2.51	0.45
1:6:395:MET:HE3	1:6:641:THR:HG21	1.99	0.45
1:A:247:TYR:CE2	1:B:358:PRO:HG3	2.51	0.45
1:A:465:PHE:HE1	1:G:504:VAL:HB	1.82	0.45
1:C:465:PHE:HE1	1:b:504:VAL:HB	1.82	0.45
1:C:559:ASN:HD21	1:C:597:MET:HB2	1.81	0.45
1:C:644:PRO:HG2	1:D:238:VAL:CG2	2.47	0.45
1:D:465:PHE:HE2	1:N:623:ALA:HB2	1.82	0.45
1:E:278:PHE:CE2	1:E:601:VAL:HB	2.51	0.45
1:K:275:PHE:CE1	1:K:302:LEU:HD11	2.52	0.45
1:K:515:LEU:HD12	1:K:556:GLN:OE1	2.17	0.45
1:N:423:LEU:HD11	1:N:595:VAL:CG2	2.45	0.45
1:O:644:PRO:HG2	1:d:238:VAL:CG2	2.47	0.45
1:Q:275:PHE:CE1	1:Q:302:LEU:HD11	2.52	0.45
1:Q:599:ARG:HD2	1:Q:624:MET:O	2.17	0.45
1:U:238:VAL:CG2	1:e:644:PRO:HG2	2.47	0.45
1:U:275:PHE:CE1	1:U:302:LEU:HD11	2.52	0.45
1:V:278:PHE:CE2	1:V:601:VAL:HB	2.51	0.45
1:W:275:PHE:CE1	1:W:302:LEU:HD11	2.52	0.45
1:Z:423:LEU:HD11	1:Z:595:VAL:CG2	2.45	0.45
1:Z:476:ASN:OD1	1:Z:520:THR:OG1	2.26	0.45
1:c:644:PRO:HG2	1:s:238:VAL:CG2	2.47	0.45
1:d:459:ASN:OD1	1:d:459:ASN:N	2.46	0.45
1:e:278:PHE:CE2	1:e:601:VAL:HB	2.51	0.45
1:f:460:THR:O	1:h:505:PRO:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:505:PRO:HD2	1:h:460:THR:O	2.17	0.45
1:h:515:LEU:HD12	1:h:556:GLN:OE1	2.17	0.45
1:h:559:ASN:HD21	1:h:597:MET:HB2	1.81	0.45
1:i:382:ARG:HH12	1:k:554:GLU:HB2	1.82	0.45
1:i:515:LEU:HD12	1:i:556:GLN:OE1	2.17	0.45
1:j:436:TYR:CD1	1:k:547:MET:HE1	2.51	0.45
1:k:599:ARG:HD2	1:k:624:MET:O	2.17	0.45
1:l:644:PRO:HG2	1:n:238:VAL:CG2	2.47	0.45
1:r:278:PHE:CE2	1:r:601:VAL:HB	2.51	0.45
1:s:275:PHE:CE1	1:s:302:LEU:HD11	2.52	0.45
1:s:395:MET:HE3	1:s:641:THR:HG21	1.99	0.45
1:t:303:ARG:NH1	1:t:670:GLU:OE2	2.43	0.45
1:t:460:THR:O	1:u:505:PRO:HD2	2.17	0.45
1:v:247:TYR:CE2	1:1:358:PRO:HG3	2.51	0.45
1:w:465:PHE:HE2	1:x:623:ALA:HB2	1.81	0.45
1:x:395:MET:HE3	1:x:641:THR:HG21	1.99	0.45
1:y:599:ARG:HD2	1:y:624:MET:O	2.17	0.45
1:2:238:VAL:CG2	1:3:644:PRO:HG2	2.47	0.45
1:3:344:VAL:HG11	1:4:428:ASN:HB3	1.97	0.45
1:4:275:PHE:CE1	1:4:302:LEU:HD11	2.52	0.45
1:4:515:LEU:HD12	1:4:556:GLN:OE1	2.17	0.45
1:5:460:THR:O	1:6:505:PRO:HD2	2.17	0.45
1:6:275:PHE:CE1	1:6:302:LEU:HD11	2.52	0.45
1:6:278:PHE:CE2	1:6:601:VAL:HB	2.51	0.45
1:B:505:PRO:HD2	1:L:460:THR:O	2.17	0.45
1:C:505:PRO:HD2	1:M:460:THR:O	2.17	0.45
1:D:599:ARG:HD2	1:D:624:MET:O	2.17	0.45
1:E:599:ARG:HD2	1:E:624:MET:O	2.17	0.45
1:F:505:PRO:HD2	1:Q:460:THR:O	2.17	0.45
1:F:644:PRO:HG2	1:R:238:VAL:CG2	2.47	0.45
1:G:460:THR:O	1:I:505:PRO:HD2	2.17	0.45
1:J:238:VAL:CG2	1:a:644:PRO:HG2	2.47	0.45
1:L:395:MET:HE3	1:L:641:THR:HG21	1.99	0.45
1:M:505:PRO:HD2	1:b:460:THR:O	2.17	0.45
1:M:515:LEU:HD12	1:M:556:GLN:OE1	2.17	0.45
1:M:559:ASN:HD21	1:M:597:MET:HB2	1.81	0.45
1:N:278:PHE:CE2	1:N:601:VAL:HB	2.51	0.45
1:N:395:MET:HE3	1:N:641:THR:HG21	1.99	0.45
1:N:460:THR:O	1:P:505:PRO:HD2	2.17	0.45
1:N:515:LEU:HD12	1:N:556:GLN:OE1	2.17	0.45
1:O:238:VAL:CG2	1:P:644:PRO:HG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:465:PHE:HE1	1:U:504:VAL:HB	1.82	0.45
1:U:395:MET:HE3	1:U:641:THR:HG21	1.99	0.45
1:U:515:LEU:HD12	1:U:556:GLN:OE1	2.17	0.45
1:V:395:MET:HE3	1:V:641:THR:HG21	1.99	0.45
1:V:515:LEU:HD12	1:V:556:GLN:OE1	2.17	0.45
1:W:278:PHE:CE2	1:W:601:VAL:HB	2.51	0.45
1:Z:599:ARG:HD2	1:Z:624:MET:O	2.17	0.45
1:c:559:ASN:HD21	1:c:597:MET:HB2	1.81	0.45
1:g:644:PRO:HG2	1:k:238:VAL:CG2	2.47	0.45
1:h:366:TYR:CD2	1:h:388:LEU:HD11	2.51	0.45
1:i:278:PHE:CE2	1:i:601:VAL:HB	2.51	0.45
1:j:238:VAL:CG2	1:x:644:PRO:HG2	2.47	0.45
1:j:515:LEU:HD12	1:j:556:GLN:OE1	2.17	0.45
1:n:599:ARG:HD2	1:n:624:MET:O	2.17	0.45
1:q:238:VAL:CG2	1:y:644:PRO:HG2	2.47	0.45
1:q:436:TYR:CD1	1:r:547:MET:HE1	2.51	0.45
1:r:465:PHE:HE1	1:s:504:VAL:HB	1.82	0.45
1:s:515:LEU:HD12	1:s:556:GLN:OE1	2.17	0.45
1:w:278:PHE:CE2	1:w:601:VAL:HB	2.51	0.45
1:w:395:MET:HE3	1:w:641:THR:HG21	1.99	0.45
1:w:504:VAL:HB	1:y:465:PHE:HE1	1.82	0.45
1:w:515:LEU:HD12	1:w:556:GLN:OE1	2.17	0.45
1:z:460:THR:O	1:1:505:PRO:HD2	2.17	0.45
1:1:436:TYR:CD1	1:2:547:MET:HE1	2.51	0.45
1:2:515:LEU:HD12	1:2:556:GLN:OE1	2.17	0.45
1:3:395:MET:HE3	1:3:641:THR:HG21	1.99	0.45
1:3:473:GLN:HE22	1:4:574:GLN:H	1.62	0.45
1:5:465:PHE:HE1	1:6:504:VAL:HB	1.82	0.45
1:7:275:PHE:CE1	1:7:302:LEU:HD11	2.52	0.45
1:A:395:MET:HE3	1:A:641:THR:HG21	1.99	0.45
1:A:515:LEU:HD12	1:A:556:GLN:OE1	2.17	0.45
1:E:228:ARG:NH1	1:E:672:GLU:OE2	2.35	0.45
1:F:515:LEU:HD12	1:F:556:GLN:OE1	2.17	0.45
1:G:303:ARG:NH1	1:G:670:GLU:OE2	2.43	0.45
1:H:559:ASN:HD21	1:H:597:MET:HB2	1.81	0.45
1:H:599:ARG:HD2	1:H:624:MET:O	2.17	0.45
1:J:515:LEU:HD12	1:J:556:GLN:OE1	2.17	0.45
1:K:505:PRO:HD2	1:8:460:THR:O	2.17	0.45
1:P:275:PHE:CE1	1:P:302:LEU:HD11	2.52	0.45
1:P:515:LEU:HD12	1:P:556:GLN:OE1	2.17	0.45
1:Q:303:ARG:NH1	1:Q:670:GLU:OE2	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:460:THR:O	1:S:505:PRO:HD2	2.17	0.45
1:T:623:ALA:HB2	1:l:465:PHE:HE2	1.81	0.45
1:Y:275:PHE:CE1	1:Y:302:LEU:HD11	2.52	0.45
1:a:395:MET:HE3	1:a:641:THR:HG21	1.99	0.45
1:a:599:ARG:HD2	1:a:624:MET:O	2.17	0.45
1:b:459:ASN:OD1	1:b:459:ASN:N	2.46	0.45
1:c:366:TYR:CD2	1:c:388:LEU:HD11	2.51	0.45
1:e:515:LEU:HD12	1:e:556:GLN:OE1	2.17	0.45
1:g:395:MET:HE3	1:g:641:THR:HG21	1.99	0.45
1:g:559:ASN:HD21	1:g:597:MET:HB2	1.81	0.45
1:h:228:ARG:NH1	1:h:672:GLU:OE2	2.35	0.45
1:i:395:MET:HE3	1:i:641:THR:HG21	1.99	0.45
1:i:423:LEU:HD11	1:i:595:VAL:CG2	2.45	0.45
1:i:460:THR:O	1:j:505:PRO:HD2	2.17	0.45
1:i:599:ARG:HD2	1:i:624:MET:O	2.17	0.45
1:j:275:PHE:CE1	1:j:302:LEU:HD11	2.52	0.45
1:j:465:PHE:HE2	1:k:623:ALA:HB2	1.81	0.45
1:j:644:PRO:HG2	1:l:238:VAL:CG2	2.47	0.45
1:k:303:ARG:NH1	1:k:670:GLU:OE2	2.43	0.45
1:n:275:PHE:CE1	1:n:302:LEU:HD11	2.52	0.45
1:n:395:MET:HE3	1:n:641:THR:HG21	1.99	0.45
1:p:228:ARG:NH1	1:p:672:GLU:OE2	2.35	0.45
1:p:395:MET:HE3	1:p:641:THR:HG21	1.99	0.45
1:p:515:LEU:HD12	1:p:556:GLN:OE1	2.17	0.45
1:q:460:THR:O	1:r:505:PRO:HD2	2.17	0.45
1:t:547:MET:HE1	1:v:436:TYR:CD1	2.51	0.45
1:v:395:MET:HE3	1:v:641:THR:HG21	1.99	0.45
1:v:599:ARG:HD2	1:v:624:MET:O	2.17	0.45
1:y:515:LEU:HD12	1:y:556:GLN:OE1	2.17	0.45
1:z:395:MET:HE3	1:z:641:THR:HG21	1.99	0.45
1:3:504:VAL:HB	1:4:465:PHE:HE1	1.82	0.45
1:5:547:MET:HE1	1:7:436:TYR:CD1	2.51	0.45
1:5:559:ASN:HD21	1:5:597:MET:HB2	1.81	0.45
1:6:559:ASN:HD21	1:6:597:MET:HB2	1.81	0.45
1:A:599:ARG:HD2	1:A:624:MET:O	2.17	0.45
1:B:473:GLN:HE22	1:L:574:GLN:H	1.62	0.45
1:B:599:ARG:HD2	1:B:624:MET:O	2.17	0.45
1:C:395:MET:HE3	1:C:641:THR:HG21	1.99	0.45
1:C:623:ALA:HB2	1:M:465:PHE:HE2	1.81	0.45
1:D:303:ARG:NH1	1:D:670:GLU:OE2	2.43	0.45
1:D:515:LEU:HD12	1:D:556:GLN:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:623:ALA:HB2	1:P:465:PHE:HE2	1.81	0.45
1:E:395:MET:HE3	1:E:641:THR:HG21	1.99	0.45
1:E:465:PHE:HE2	1:Q:623:ALA:HB2	1.81	0.45
1:E:504:VAL:HB	1:F:465:PHE:HE1	1.82	0.45
1:L:599:ARG:HD2	1:L:624:MET:O	2.17	0.45
1:M:228:ARG:NH1	1:M:672:GLU:OE2	2.35	0.45
1:N:366:TYR:CD2	1:N:388:LEU:HD11	2.51	0.45
1:N:465:PHE:HE2	1:P:623:ALA:HB2	1.82	0.45
1:O:275:PHE:CE1	1:O:302:LEU:HD11	2.52	0.45
1:P:238:VAL:CG2	1:Q:644:PRO:HG2	2.47	0.45
1:Q:238:VAL:CG2	1:S:644:PRO:HG2	2.47	0.45
1:R:275:PHE:CE1	1:R:302:LEU:HD11	2.52	0.45
1:R:436:TYR:CD1	1:S:547:MET:HE1	2.51	0.45
1:S:428:ASN:HB3	1:U:344:VAL:HG11	1.97	0.45
1:T:460:THR:O	1:d:505:PRO:HD2	2.17	0.45
1:T:465:PHE:HE2	1:d:623:ALA:HB2	1.81	0.45
1:V:504:VAL:HB	1:X:465:PHE:HE1	1.82	0.45
1:W:460:THR:O	1:Y:505:PRO:HD2	2.17	0.45
1:Z:460:THR:O	1:4:505:PRO:HD2	2.17	0.45
1:Z:515:LEU:HD12	1:Z:556:GLN:OE1	2.17	0.45
1:Z:644:PRO:HG2	1:a:238:VAL:CG2	2.47	0.45
1:c:515:LEU:HD12	1:c:556:GLN:OE1	2.17	0.45
1:d:275:PHE:CE1	1:d:302:LEU:HD11	2.52	0.45
1:d:395:MET:HE3	1:d:641:THR:HG21	1.99	0.45
1:d:599:ARG:HD2	1:d:624:MET:O	2.17	0.45
1:i:366:TYR:CD2	1:i:388:LEU:HD11	2.51	0.45
1:i:623:ALA:HB2	1:k:465:PHE:HE2	1.82	0.45
1:m:460:THR:O	1:n:505:PRO:HD2	2.17	0.45
1:m:465:PHE:HE2	1:n:623:ALA:HB2	1.81	0.45
1:o:465:PHE:HE1	1:p:504:VAL:HB	1.82	0.45
1:p:275:PHE:CE1	1:p:302:LEU:HD11	2.52	0.45
1:p:644:PRO:HG2	1:6:238:VAL:CG2	2.47	0.45
1:q:275:PHE:CE1	1:q:302:LEU:HD11	2.52	0.45
1:r:428:ASN:HB3	1:s:344:VAL:HG11	1.97	0.45
1:r:559:ASN:HD21	1:r:597:MET:HB2	1.81	0.45
1:v:515:LEU:HD12	1:v:556:GLN:OE1	2.17	0.45
1:w:460:THR:O	1:x:505:PRO:HD2	2.17	0.45
1:w:554:GLU:HB2	1:x:382:ARG:HH12	1.82	0.45
1:w:599:ARG:HD2	1:w:624:MET:O	2.17	0.45
1:z:599:ARG:HD2	1:z:624:MET:O	2.17	0.45
1:1:599:ARG:HD2	1:1:624:MET:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:238:VAL:CG2	1:8:644:PRO:HG2	2.47	0.45
1:3:599:ARG:HD2	1:3:624:MET:O	2.17	0.45
1:6:460:THR:O	1:7:505:PRO:HD2	2.17	0.45
1:8:599:ARG:HD2	1:8:624:MET:O	2.17	0.45
1:A:460:THR:O	1:G:505:PRO:HD2	2.17	0.44
1:C:278:PHE:CE2	1:C:601:VAL:HB	2.51	0.44
1:E:515:LEU:HD12	1:E:556:GLN:OE1	2.17	0.44
1:E:554:GLU:HB2	1:Q:382:ARG:HH12	1.82	0.44
1:F:395:MET:HE3	1:F:641:THR:HG21	1.99	0.44
1:F:504:VAL:HB	1:Q:465:PHE:HE1	1.82	0.44
1:J:460:THR:O	1:L:505:PRO:HD2	2.17	0.44
1:O:465:PHE:HE2	1:m:623:ALA:HB2	1.81	0.44
1:T:559:ASN:HD21	1:T:597:MET:HB2	1.81	0.44
1:V:275:PHE:CE1	1:V:302:LEU:HD11	2.52	0.44
1:V:476:ASN:OD1	1:V:520:THR:OG1	2.26	0.44
1:V:644:PRO:HG2	1:W:238:VAL:CG2	2.47	0.44
1:X:395:MET:HE3	1:X:641:THR:HG21	1.99	0.44
1:Y:395:MET:HE3	1:Y:641:THR:HG21	1.99	0.44
1:Y:515:LEU:HD12	1:Y:556:GLN:OE1	2.17	0.44
1:Y:559:ASN:HD21	1:Y:597:MET:HB2	1.81	0.44
1:e:366:TYR:CD2	1:e:388:LEU:HD11	2.51	0.44
1:f:465:PHE:HE2	1:h:623:ALA:HB2	1.81	0.44
1:g:278:PHE:CE2	1:g:601:VAL:HB	2.51	0.44
1:g:623:ALA:HB2	1:h:465:PHE:HE2	1.81	0.44
1:l:275:PHE:CE1	1:l:302:LEU:HD11	2.52	0.44
1:m:559:ASN:HD21	1:m:597:MET:HB2	1.81	0.44
1:o:238:VAL:CG2	1:7:644:PRO:HG2	2.47	0.44
1:o:395:MET:HE3	1:o:641:THR:HG21	1.99	0.44
1:q:554:GLU:HB2	1:r:382:ARG:HH12	1.82	0.44
1:t:599:ARG:HD2	1:t:624:MET:O	2.17	0.44
1:x:465:PHE:HE1	1:y:504:VAL:HB	1.82	0.44
1:z:574:GLN:H	1:1:473:GLN:HE22	1.63	0.44
1:1:465:PHE:HE2	1:2:623:ALA:HB2	1.81	0.44
1:5:599:ARG:HD2	1:5:624:MET:O	2.17	0.44
1:8:515:LEU:HD12	1:8:556:GLN:OE1	2.17	0.44
1:B:382:ARG:HH12	1:L:554:GLU:HB2	1.82	0.44
1:B:465:PHE:HE2	1:J:623:ALA:HB2	1.81	0.44
1:C:465:PHE:HE2	1:b:623:ALA:HB2	1.82	0.44
1:D:395:MET:HE3	1:D:641:THR:HG21	1.99	0.44
1:D:505:PRO:HD2	1:P:460:THR:O	2.17	0.44
1:E:460:THR:O	1:Q:505:PRO:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:275:PHE:CE1	1:F:302:LEU:HD11	2.52	0.44
1:G:275:PHE:CE1	1:G:302:LEU:HD11	2.52	0.44
1:G:599:ARG:HD2	1:G:624:MET:O	2.17	0.44
1:M:623:ALA:HB2	1:b:465:PHE:HE2	1.81	0.44
1:N:436:TYR:CD1	1:P:547:MET:HE1	2.52	0.44
1:N:599:ARG:HD2	1:N:624:MET:O	2.17	0.44
1:Q:515:LEU:HD12	1:Q:556:GLN:OE1	2.17	0.44
1:R:554:GLU:HB2	1:S:382:ARG:HH12	1.82	0.44
1:S:559:ASN:HD21	1:S:597:MET:HB2	1.81	0.44
1:V:460:THR:O	1:e:505:PRO:HD2	2.17	0.44
1:X:505:PRO:HD2	1:e:460:THR:O	2.17	0.44
1:a:515:LEU:HD12	1:a:556:GLN:OE1	2.17	0.44
1:c:459:ASN:OD1	1:c:459:ASN:N	2.46	0.44
1:c:460:THR:O	1:o:505:PRO:HD2	2.17	0.44
1:e:238:VAL:CG2	1:h:644:PRO:HG2	2.47	0.44
1:i:465:PHE:HE2	1:j:623:ALA:HB2	1.82	0.44
1:r:644:PRO:HG2	1:x:238:VAL:CG2	2.47	0.44
1:t:275:PHE:CE1	1:t:302:LEU:HD11	2.52	0.44
1:u:460:THR:O	1:v:505:PRO:HD2	2.17	0.44
1:x:515:LEU:HD12	1:x:556:GLN:OE1	2.17	0.44
1:y:275:PHE:CE1	1:y:302:LEU:HD11	2.52	0.44
1:z:505:PRO:HD2	1:2:460:THR:O	2.17	0.44
1:5:554:GLU:HB2	1:6:382:ARG:HH12	1.83	0.44
1:7:395:MET:HE3	1:7:641:THR:HG21	1.99	0.44
1:7:515:LEU:HD12	1:7:556:GLN:OE1	2.17	0.44
1:7:559:ASN:HD21	1:7:597:MET:HB2	1.81	0.44
1:A:505:PRO:HD2	1:I:460:THR:O	2.17	0.44
1:B:460:THR:O	1:J:505:PRO:HD2	2.17	0.44
1:B:644:PRO:HG2	1:C:238:VAL:CG2	2.47	0.44
1:H:303:ARG:NH1	1:H:670:GLU:OE2	2.43	0.44
1:K:599:ARG:HD2	1:K:624:MET:O	2.17	0.44
1:L:516:GLN:HB2	1:L:556:GLN:HE22	1.83	0.44
1:M:644:PRO:HG2	1:c:238:VAL:CG2	2.47	0.44
1:R:644:PRO:HG2	1:V:238:VAL:CG2	2.47	0.44
1:T:238:VAL:CG2	1:U:644:PRO:HG2	2.47	0.44
1:X:382:ARG:HH12	1:e:554:GLU:HB2	1.83	0.44
1:X:644:PRO:HG2	1:f:238:VAL:CG2	2.47	0.44
1:Z:275:PHE:CE1	1:Z:302:LEU:HD11	2.52	0.44
1:b:275:PHE:CE1	1:b:302:LEU:HD11	2.52	0.44
1:c:505:PRO:HD2	1:p:460:THR:O	2.17	0.44
1:c:554:GLU:HB2	1:o:382:ARG:HH12	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:623:ALA:HB2	1:g:465:PHE:HE2	1.82	0.44
1:k:395:MET:HE3	1:k:641:THR:HG21	1.99	0.44
1:k:515:LEU:HD12	1:k:556:GLN:OE1	2.17	0.44
1:m:238:VAL:CG2	1:s:644:PRO:HG2	2.47	0.44
1:p:238:VAL:CG2	1:q:644:PRO:HG2	2.47	0.44
1:p:476:ASN:OD1	1:p:520:THR:OG1	2.26	0.44
1:p:599:ARG:HD2	1:p:624:MET:O	2.17	0.44
1:t:344:VAL:HG11	1:v:428:ASN:HB3	1.97	0.44
1:t:465:PHE:HE2	1:u:623:ALA:HB2	1.81	0.44
1:t:505:PRO:HD2	1:v:460:THR:O	2.17	0.44
1:y:395:MET:HE3	1:y:641:THR:HG21	1.99	0.44
1:z:516:GLN:HB2	1:z:556:GLN:HE22	1.83	0.44
1:3:515:LEU:HD12	1:3:556:GLN:OE1	2.17	0.44
1:4:599:ARG:HD2	1:4:624:MET:O	2.17	0.44
1:5:303:ARG:NH1	1:5:670:GLU:OE2	2.43	0.44
1:6:554:GLU:HB2	1:7:382:ARG:HH12	1.83	0.44
1:D:504:VAL:HB	1:P:465:PHE:HE1	1.82	0.44
1:G:465:PHE:HE2	1:I:623:ALA:HB2	1.81	0.44
1:I:515:LEU:HD12	1:I:556:GLN:OE1	2.17	0.44
1:K:516:GLN:HB2	1:K:556:GLN:HE22	1.83	0.44
1:M:382:ARG:HH12	1:b:554:GLU:HB2	1.83	0.44
1:N:516:GLN:HB2	1:N:556:GLN:HE22	1.83	0.44
1:V:228:ARG:NH1	1:V:672:GLU:OE2	2.35	0.44
1:X:275:PHE:CE1	1:X:302:LEU:HD11	2.52	0.44
1:Z:382:ARG:HH12	1:3:554:GLU:HB2	1.83	0.44
1:Z:505:PRO:HD2	1:3:460:THR:O	2.17	0.44
1:Z:559:ASN:HD21	1:Z:597:MET:HB2	1.81	0.44
1:a:460:THR:O	1:8:505:PRO:HD2	2.17	0.44
1:c:275:PHE:CE1	1:c:302:LEU:HD11	2.52	0.44
1:d:515:LEU:HD12	1:d:556:GLN:OE1	2.17	0.44
1:f:275:PHE:CE1	1:f:302:LEU:HD11	2.52	0.44
1:k:275:PHE:CE1	1:k:302:LEU:HD11	2.52	0.44
1:l:395:MET:HE3	1:l:641:THR:HG21	1.99	0.44
1:o:275:PHE:CE1	1:o:302:LEU:HD11	2.52	0.44
1:o:516:GLN:HB2	1:o:556:GLN:HE22	1.83	0.44
1:q:382:ARG:HH12	1:s:554:GLU:HB2	1.83	0.44
1:q:599:ARG:HD2	1:q:624:MET:O	2.17	0.44
1:r:465:PHE:HE2	1:s:623:ALA:HB2	1.82	0.44
1:r:516:GLN:HB2	1:r:556:GLN:HE22	1.83	0.44
1:r:599:ARG:HD2	1:r:624:MET:O	2.17	0.44
1:s:599:ARG:HD2	1:s:624:MET:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:599:ARG:HD2	1:7:624:MET:O	2.17	0.44
1:8:275:PHE:CE1	1:8:302:LEU:HD11	2.52	0.44
1:8:559:ASN:HD21	1:8:597:MET:HB2	1.81	0.44
1:A:428:ASN:HB3	1:G:344:VAL:HG11	1.97	0.44
1:B:459:ASN:OD1	1:B:459:ASN:N	2.46	0.44
1:C:554:GLU:HB2	1:b:382:ARG:HH12	1.83	0.44
1:D:275:PHE:CE1	1:D:302:LEU:HD11	2.52	0.44
1:G:238:VAL:CG2	1:W:644:PRO:HG2	2.47	0.44
1:M:275:PHE:CE1	1:M:302:LEU:HD11	2.52	0.44
1:N:275:PHE:CE1	1:N:302:LEU:HD11	2.52	0.44
1:O:559:ASN:HD21	1:O:597:MET:HB2	1.81	0.44
1:P:516:GLN:HB2	1:P:556:GLN:HE22	1.83	0.44
1:R:382:ARG:HH12	1:U:554:GLU:HB2	1.83	0.44
1:S:516:GLN:HB2	1:S:556:GLN:HE22	1.83	0.44
1:S:599:ARG:HD2	1:S:624:MET:O	2.17	0.44
1:T:504:VAL:HB	1:l:465:PHE:HE1	1.82	0.44
1:U:599:ARG:HD2	1:U:624:MET:O	2.17	0.44
1:V:599:ARG:HD2	1:V:624:MET:O	2.17	0.44
1:W:599:ARG:HD2	1:W:624:MET:O	2.17	0.44
1:X:516:GLN:HB2	1:X:556:GLN:HE22	1.83	0.44
1:a:275:PHE:CE1	1:a:302:LEU:HD11	2.52	0.44
1:a:554:GLU:HB2	1:8:382:ARG:HH12	1.83	0.44
1:b:238:VAL:CG2	1:o:644:PRO:HG2	2.47	0.44
1:c:382:ARG:HH12	1:p:554:GLU:HB2	1.83	0.44
1:c:623:ALA:HB2	1:p:465:PHE:HE2	1.82	0.44
1:e:275:PHE:CE1	1:e:302:LEU:HD11	2.52	0.44
1:e:459:ASN:OD1	1:e:459:ASN:N	2.46	0.44
1:f:554:GLU:HB2	1:h:382:ARG:HH12	1.83	0.44
1:i:275:PHE:CE1	1:i:302:LEU:HD11	2.52	0.44
1:i:436:TYR:CD1	1:j:547:MET:HE1	2.52	0.44
1:j:460:THR:O	1:k:505:PRO:HD2	2.17	0.44
1:j:465:PHE:HE1	1:k:504:VAL:HB	1.82	0.44
1:j:516:GLN:HB2	1:j:556:GLN:HE22	1.83	0.44
1:m:554:GLU:HB2	1:n:382:ARG:HH12	1.82	0.44
1:q:516:GLN:HB2	1:q:556:GLN:HE22	1.83	0.44
1:t:238:VAL:CG2	1:6:644:PRO:HG2	2.47	0.44
1:u:238:VAL:CG2	1:2:644:PRO:HG2	2.47	0.44
1:u:515:LEU:HD12	1:u:556:GLN:OE1	2.17	0.44
1:v:516:GLN:HB2	1:v:556:GLN:HE22	1.83	0.44
1:z:554:GLU:HB2	1:l:382:ARG:HH12	1.83	0.44
1:1:460:THR:O	1:2:505:PRO:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:275:PHE:CE1	1:2:302:LEU:HD11	2.52	0.44
1:4:516:GLN:HB2	1:4:556:GLN:HE22	1.83	0.44
1:5:275:PHE:CE1	1:5:302:LEU:HD11	2.52	0.44
1:5:504:VAL:HB	1:7:465:PHE:HE1	1.82	0.44
1:5:505:PRO:HD2	1:7:460:THR:O	2.17	0.44
1:A:516:GLN:HB2	1:A:556:GLN:HE22	1.83	0.44
1:A:559:ASN:HD21	1:A:597:MET:HB2	1.81	0.44
1:C:275:PHE:CE1	1:C:302:LEU:HD11	2.52	0.44
1:D:460:THR:O	1:N:505:PRO:HD2	2.17	0.44
1:G:554:GLU:HB2	1:I:382:ARG:HH12	1.82	0.44
1:H:275:PHE:CE1	1:H:302:LEU:HD11	2.52	0.44
1:H:358:PRO:HG3	1:I:247:TYR:CE2	2.52	0.44
1:H:504:VAL:HB	1:Y:465:PHE:HE1	1.82	0.44
1:H:515:LEU:HD12	1:H:556:GLN:OE1	2.17	0.44
1:I:238:VAL:CG2	1:J:644:PRO:HG2	2.47	0.44
1:J:275:PHE:CE1	1:J:302:LEU:HD11	2.52	0.44
1:J:516:GLN:HB2	1:J:556:GLN:HE22	1.83	0.44
1:J:554:GLU:HB2	1:L:382:ARG:HH12	1.83	0.44
1:O:395:MET:HE3	1:O:641:THR:HG21	1.99	0.44
1:R:516:GLN:HB2	1:R:556:GLN:HE22	1.83	0.44
1:R:599:ARG:HD2	1:R:624:MET:O	2.17	0.44
1:R:623:ALA:HB2	1:U:465:PHE:HE2	1.81	0.44
1:S:460:THR:O	1:U:505:PRO:HD2	2.17	0.44
1:S:465:PHE:HE2	1:U:623:ALA:HB2	1.82	0.44
1:T:515:LEU:HD12	1:T:556:GLN:OE1	2.17	0.44
1:T:554:GLU:HB2	1:d:382:ARG:HH12	1.82	0.44
1:V:554:GLU:HB2	1:e:382:ARG:HH12	1.83	0.44
1:Z:465:PHE:HE1	1:4:504:VAL:HB	1.82	0.44
1:b:395:MET:HE3	1:b:641:THR:HG21	1.99	0.44
1:c:504:VAL:HB	1:p:465:PHE:HE1	1.82	0.44
1:d:476:ASN:OD1	1:d:520:THR:OG1	2.26	0.44
1:f:382:ARG:HH12	1:g:554:GLU:HB2	1.82	0.44
1:g:238:VAL:CG2	1:l:644:PRO:HG2	2.47	0.44
1:g:275:PHE:CE1	1:g:302:LEU:HD11	2.52	0.44
1:i:516:GLN:HB2	1:i:556:GLN:HE22	1.83	0.44
1:l:559:ASN:HD21	1:l:597:MET:HB2	1.81	0.44
1:n:515:LEU:HD12	1:n:556:GLN:OE1	2.17	0.44
1:p:516:GLN:HB2	1:p:556:GLN:HE22	1.83	0.44
1:r:460:THR:O	1:s:505:PRO:HD2	2.17	0.44
1:t:554:GLU:HB2	1:u:382:ARG:HH12	1.82	0.44
1:v:559:ASN:HD21	1:v:597:MET:HB2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:516:GLN:HB2	1:2:556:GLN:HE22	1.83	0.44
1:3:275:PHE:CE1	1:3:302:LEU:HD11	2.52	0.44
1:5:382:ARG:HH12	1:7:554:GLU:HB2	1.82	0.44
1:A:382:ARG:HH12	1:I:554:GLU:HB2	1.83	0.44
1:B:554:GLU:HB2	1:J:382:ARG:HH12	1.82	0.44
1:E:516:GLN:HB2	1:E:556:GLN:HE22	1.83	0.44
1:H:465:PHE:HE2	1:W:623:ALA:HB2	1.83	0.44
1:K:504:VAL:HB	1:8:465:PHE:HE1	1.82	0.44
1:M:459:ASN:OD1	1:M:459:ASN:N	2.46	0.44
1:O:382:ARG:HH12	1:n:554:GLU:HB2	1.83	0.44
1:O:465:PHE:HE1	1:m:504:VAL:HB	1.82	0.44
1:T:275:PHE:CE1	1:T:302:LEU:HD11	2.52	0.44
1:V:465:PHE:HE1	1:e:504:VAL:HB	1.82	0.44
1:V:465:PHE:HE2	1:e:623:ALA:HB2	1.82	0.44
1:V:516:GLN:HB2	1:V:556:GLN:HE22	1.83	0.44
1:W:516:GLN:HB2	1:W:556:GLN:HE22	1.83	0.44
1:X:515:LEU:HD12	1:X:556:GLN:OE1	2.17	0.44
1:Y:599:ARG:HD2	1:Y:624:MET:O	2.17	0.44
1:a:559:ASN:HD21	1:a:597:MET:HB2	1.81	0.44
1:d:554:GLU:HB2	1:l:382:ARG:HH12	1.83	0.44
1:f:395:MET:HE3	1:f:641:THR:HG21	1.99	0.44
1:i:505:PRO:HD2	1:k:460:THR:O	2.17	0.44
1:i:554:GLU:HB2	1:j:382:ARG:HH12	1.82	0.44
1:l:515:LEU:HD12	1:l:556:GLN:OE1	2.17	0.44
1:m:515:LEU:HD12	1:m:556:GLN:OE1	2.17	0.44
1:q:623:ALA:HB2	1:s:465:PHE:HE2	1.81	0.44
1:u:554:GLU:HB2	1:v:382:ARG:HH12	1.83	0.44
1:u:644:PRO:HG2	1:5:238:VAL:CG2	2.47	0.44
1:v:644:PRO:HG2	1:1:238:VAL:CG2	2.47	0.44
1:w:275:PHE:CE1	1:w:302:LEU:HD11	2.52	0.44
1:z:465:PHE:HE1	1:1:504:VAL:HB	1.82	0.44
1:z:515:LEU:HD12	1:z:556:GLN:OE1	2.17	0.44
1:1:459:ASN:OD1	1:1:459:ASN:N	2.46	0.44
1:1:554:GLU:HB2	1:2:382:ARG:HH12	1.82	0.44
1:6:599:ARG:HD2	1:6:624:MET:O	2.17	0.44
1:B:516:GLN:HB2	1:B:556:GLN:HE22	1.83	0.44
1:C:303:ARG:NH1	1:C:670:GLU:OE2	2.43	0.44
1:E:275:PHE:CE1	1:E:302:LEU:HD11	2.52	0.44
1:F:238:VAL:CG2	1:G:644:PRO:HG2	2.47	0.44
1:K:644:PRO:HG2	1:7:238:VAL:CG2	2.47	0.44
1:L:515:LEU:HD12	1:L:556:GLN:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:515:LEU:HD12	1:O:556:GLN:OE1	2.17	0.44
1:S:238:VAL:CG2	1:d:644:PRO:HG2	2.47	0.44
1:T:465:PHE:HE1	1:d:504:VAL:HB	1.82	0.44
1:Y:420:SER:N	1:Y:722:ARG:O	2.51	0.44
1:f:644:PRO:HG2	1:z:238:VAL:CG2	2.47	0.44
1:h:275:PHE:CE1	1:h:302:LEU:HD11	2.52	0.44
1:m:275:PHE:CE1	1:m:302:LEU:HD11	2.52	0.44
1:n:476:ASN:OD1	1:n:520:THR:OG1	2.26	0.44
1:r:515:LEU:HD12	1:r:556:GLN:OE1	2.17	0.44
1:t:644:PRO:HG2	1:y:238:VAL:CG2	2.47	0.44
1:w:516:GLN:HB2	1:w:556:GLN:HE22	1.83	0.44
1:y:516:GLN:HB2	1:y:556:GLN:HE22	1.83	0.44
1:z:382:ARG:HH12	1:2:554:GLU:HB2	1.83	0.44
1:1:516:GLN:HB2	1:1:556:GLN:HE22	1.83	0.44
1:5:395:MET:HE3	1:5:641:THR:HG21	1.99	0.44
1:5:515:LEU:HD12	1:5:556:GLN:OE1	2.17	0.44
1:5:644:PRO:HG2	1:8:238:VAL:CG2	2.47	0.44
1:6:516:GLN:HB2	1:6:556:GLN:HE22	1.83	0.44
1:7:420:SER:N	1:7:722:ARG:O	2.51	0.44
1:B:504:VAL:HB	1:L:465:PHE:HE1	1.82	0.44
1:D:465:PHE:HE1	1:N:504:VAL:HB	1.82	0.44
1:D:516:GLN:HB2	1:D:556:GLN:HE22	1.83	0.44
1:F:516:GLN:HB2	1:F:556:GLN:HE22	1.83	0.44
1:H:342:PRO:HB3	1:Y:421:GLN:NE2	2.33	0.44
1:H:395:MET:HE3	1:H:641:THR:HG21	1.99	0.44
1:K:554:GLU:HB2	1:a:382:ARG:HH12	1.82	0.44
1:L:238:VAL:CG2	1:b:644:PRO:HG2	2.47	0.44
1:M:395:MET:HE3	1:M:641:THR:HG21	1.99	0.44
1:P:303:ARG:NH1	1:P:670:GLU:OE2	2.43	0.44
1:P:395:MET:HE3	1:P:641:THR:HG21	1.99	0.44
1:S:275:PHE:CE1	1:S:302:LEU:HD11	2.52	0.44
1:S:515:LEU:HD12	1:S:556:GLN:OE1	2.17	0.44
1:T:395:MET:HE3	1:T:641:THR:HG21	1.99	0.44
1:V:382:ARG:HH12	1:X:554:GLU:HB2	1.82	0.44
1:f:515:LEU:HD12	1:f:556:GLN:OE1	2.17	0.44
1:h:516:GLN:HB2	1:h:556:GLN:HE22	1.83	0.44
1:j:554:GLU:HB2	1:k:382:ARG:HH12	1.82	0.44
1:k:516:GLN:HB2	1:k:556:GLN:HE22	1.83	0.44
1:l:516:GLN:HB2	1:l:556:GLN:HE22	1.83	0.44
1:m:465:PHE:HE1	1:n:504:VAL:HB	1.82	0.44
1:n:644:PRO:HG2	1:r:238:VAL:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:515:LEU:HD12	1:o:556:GLN:OE1	2.17	0.44
1:o:554:GLU:HB2	1:p:382:ARG:HH12	1.83	0.44
1:r:275:PHE:CE1	1:r:302:LEU:HD11	2.52	0.44
1:t:515:LEU:HD12	1:t:556:GLN:OE1	2.17	0.44
1:3:559:ASN:HD21	1:3:597:MET:HB2	1.81	0.44
1:4:559:ASN:HD21	1:4:597:MET:HB2	1.81	0.44
1:A:238:VAL:CG2	1:E:644:PRO:HG2	2.47	0.43
1:C:460:THR:O	1:b:505:PRO:HD2	2.17	0.43
1:F:382:ARG:HH12	1:Q:554:GLU:HB2	1.83	0.43
1:G:515:LEU:HD12	1:G:556:GLN:OE1	2.17	0.43
1:G:516:GLN:HB2	1:G:556:GLN:HE22	1.83	0.43
1:H:516:GLN:HB2	1:H:556:GLN:HE22	1.83	0.43
1:K:382:ARG:HH12	1:8:554:GLU:HB2	1.82	0.43
1:N:238:VAL:CG2	1:m:644:PRO:HG2	2.48	0.43
1:O:460:THR:O	1:m:505:PRO:HD2	2.17	0.43
1:O:516:GLN:HB2	1:O:556:GLN:HE22	1.83	0.43
1:R:505:PRO:HD2	1:U:460:THR:O	2.17	0.43
1:T:644:PRO:HG2	1:i:238:VAL:CG2	2.47	0.43
1:Y:516:GLN:HB2	1:Y:556:GLN:HE22	1.83	0.43
1:Z:459:ASN:OD1	1:Z:459:ASN:N	2.46	0.43
1:b:515:LEU:HD12	1:b:556:GLN:OE1	2.17	0.43
1:f:292:ASN:HB3	1:f:688:GLN:OE1	2.18	0.43
1:f:465:PHE:HE1	1:h:504:VAL:HB	1.82	0.43
1:f:505:PRO:HD2	1:g:460:THR:O	2.17	0.43
1:h:459:ASN:OD1	1:h:459:ASN:N	2.46	0.43
1:j:303:ARG:NH1	1:j:670:GLU:OE2	2.43	0.43
1:j:395:MET:HE3	1:j:641:THR:HG21	1.99	0.43
1:s:459:ASN:OD1	1:s:459:ASN:N	2.46	0.43
1:v:238:VAL:CG2	1:w:644:PRO:HG2	2.47	0.43
1:3:382:ARG:HH12	1:4:554:GLU:HB2	1.83	0.43
1:B:465:PHE:HE1	1:J:504:VAL:HB	1.82	0.43
1:B:492:THR:OG1	1:B:503:GLN:NE2	2.52	0.43
1:G:420:SER:N	1:G:722:ARG:O	2.51	0.43
1:K:559:ASN:HD21	1:K:597:MET:HB2	1.81	0.43
1:N:554:GLU:HB2	1:P:382:ARG:HH12	1.82	0.43
1:S:395:MET:HE3	1:S:641:THR:HG21	1.99	0.43
1:T:505:PRO:HD2	1:l:460:THR:O	2.17	0.43
1:h:395:MET:HE3	1:h:641:THR:HG21	1.99	0.43
1:h:420:SER:N	1:h:722:ARG:O	2.51	0.43
1:i:504:VAL:HB	1:k:465:PHE:HE1	1.83	0.43
1:j:420:SER:N	1:j:722:ARG:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:505:PRO:HD2	1:s:460:THR:O	2.17	0.43
1:r:554:GLU:HB2	1:s:382:ARG:HH12	1.83	0.43
1:t:420:SER:N	1:t:722:ARG:O	2.51	0.43
1:x:554:GLU:HB2	1:y:382:ARG:HH12	1.82	0.43
1:1:465:PHE:HE1	1:2:504:VAL:HB	1.82	0.43
1:4:395:MET:HE3	1:4:641:THR:HG21	1.99	0.43
1:D:382:ARG:HH12	1:P:554:GLU:HB2	1.83	0.43
1:M:420:SER:N	1:M:722:ARG:O	2.51	0.43
1:M:504:VAL:HB	1:b:465:PHE:HE1	1.82	0.43
1:M:516:GLN:HB2	1:M:556:GLN:HE22	1.83	0.43
1:O:554:GLU:HB2	1:m:382:ARG:HH12	1.83	0.43
1:P:420:SER:N	1:P:722:ARG:O	2.51	0.43
1:S:554:GLU:HB2	1:U:382:ARG:HH12	1.83	0.43
1:T:382:ARG:HH12	1:l:554:GLU:HB2	1.82	0.43
1:T:492:THR:OG1	1:T:503:GLN:NE2	2.52	0.43
1:U:459:ASN:OD1	1:U:459:ASN:N	2.46	0.43
1:Z:554:GLU:HB2	1:4:382:ARG:HH12	1.82	0.43
1:b:292:ASN:HB3	1:b:688:GLN:OE1	2.19	0.43
1:e:395:MET:HE3	1:e:641:THR:HG21	1.99	0.43
1:g:303:ARG:NH1	1:g:670:GLU:OE2	2.43	0.43
1:m:395:MET:HE3	1:m:641:THR:HG21	1.99	0.43
1:m:420:SER:N	1:m:722:ARG:O	2.51	0.43
1:r:395:MET:HE3	1:r:641:THR:HG21	1.99	0.43
1:1:492:THR:OG1	1:1:503:GLN:NE2	2.52	0.43
1:7:516:GLN:HB2	1:7:556:GLN:HE22	1.83	0.43
1:A:292:ASN:HB3	1:A:688:GLN:OE1	2.19	0.43
1:D:420:SER:N	1:D:722:ARG:O	2.51	0.43
1:G:395:MET:HE3	1:G:641:THR:HG21	1.99	0.43
1:H:247:TYR:O	1:Z:707:GLY:HA2	2.19	0.43
1:J:292:ASN:HB3	1:J:688:GLN:OE1	2.19	0.43
1:K:395:MET:HE3	1:K:641:THR:HG21	1.99	0.43
1:L:292:ASN:HB3	1:L:688:GLN:OE1	2.19	0.43
1:Q:492:THR:OG1	1:Q:503:GLN:NE2	2.52	0.43
1:R:639:LYS:HG2	1:R:640:ASN:N	2.34	0.43
1:T:420:SER:N	1:T:722:ARG:O	2.51	0.43
1:a:292:ASN:HB3	1:a:688:GLN:OE1	2.18	0.43
1:a:299:PRO:HD3	1:a:627:PHE:CE2	2.54	0.43
1:c:277:ARG:HH21	1:c:604:GLN:HB3	1.84	0.43
1:c:395:MET:HE3	1:c:641:THR:HG21	1.99	0.43
1:f:299:PRO:HD3	1:f:627:PHE:CE2	2.54	0.43
1:g:299:PRO:HD3	1:g:627:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:292:ASN:HB3	1:h:688:GLN:OE1	2.18	0.43
1:m:492:THR:OG1	1:m:503:GLN:NE2	2.52	0.43
1:n:516:GLN:HB2	1:n:556:GLN:HE22	1.83	0.43
1:q:232:LYS:HG2	1:q:670:GLU:CB	2.49	0.43
1:q:299:PRO:HD3	1:q:627:PHE:CE2	2.54	0.43
1:t:395:MET:HE3	1:t:641:THR:HG21	1.99	0.43
1:t:516:GLN:HB2	1:t:556:GLN:HE22	1.83	0.43
1:u:516:GLN:HB2	1:u:556:GLN:HE22	1.83	0.43
1:w:232:LYS:HG2	1:w:670:GLU:CB	2.49	0.43
1:x:492:THR:OG1	1:x:503:GLN:NE2	2.52	0.43
1:z:292:ASN:HB3	1:z:688:GLN:OE1	2.19	0.43
1:2:292:ASN:HB3	1:2:688:GLN:OE1	2.19	0.43
1:3:292:ASN:HB3	1:3:688:GLN:OE1	2.19	0.43
1:3:299:PRO:HD3	1:3:627:PHE:CE2	2.54	0.43
1:5:516:GLN:HB2	1:5:556:GLN:HE22	1.83	0.43
1:6:465:PHE:HE1	1:7:504:VAL:HB	1.82	0.43
1:7:292:ASN:HB3	1:7:688:GLN:OE1	2.19	0.43
1:8:459:ASN:OD1	1:8:459:ASN:N	2.46	0.43
1:8:516:GLN:HB2	1:8:556:GLN:HE22	1.83	0.43
1:A:644:PRO:HG2	1:B:238:VAL:CG2	2.48	0.43
1:B:395:MET:HE3	1:B:641:THR:HG21	1.99	0.43
1:C:299:PRO:HD3	1:C:627:PHE:CE2	2.54	0.43
1:C:639:LYS:HG2	1:C:640:ASN:N	2.34	0.43
1:E:232:LYS:HG2	1:E:670:GLU:CB	2.49	0.43
1:I:516:GLN:HB2	1:I:556:GLN:HE22	1.83	0.43
1:K:492:THR:OG1	1:K:503:GLN:NE2	2.52	0.43
1:L:492:THR:OG1	1:L:503:GLN:NE2	2.52	0.43
1:N:232:LYS:HG2	1:N:670:GLU:CB	2.49	0.43
1:N:277:ARG:HH21	1:N:604:GLN:HB3	1.84	0.43
1:P:292:ASN:HB3	1:P:688:GLN:OE1	2.18	0.43
1:Q:299:PRO:HD3	1:Q:627:PHE:CE2	2.54	0.43
1:R:232:LYS:HG2	1:R:670:GLU:CB	2.49	0.43
1:R:299:PRO:HD3	1:R:627:PHE:CE2	2.54	0.43
1:S:292:ASN:HB3	1:S:688:GLN:OE1	2.19	0.43
1:S:476:ASN:OD1	1:S:520:THR:OG1	2.26	0.43
1:T:232:LYS:HG2	1:T:670:GLU:CB	2.49	0.43
1:T:299:PRO:HD3	1:T:627:PHE:CE2	2.54	0.43
1:V:492:THR:OG1	1:V:503:GLN:NE2	2.52	0.43
1:Y:292:ASN:HB3	1:Y:688:GLN:OE1	2.19	0.43
1:Y:299:PRO:HD3	1:Y:627:PHE:CE2	2.54	0.43
1:b:299:PRO:HD3	1:b:627:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:492:THR:OG1	1:b:503:GLN:NE2	2.52	0.43
1:e:277:ARG:HH21	1:e:604:GLN:HB3	1.84	0.43
1:f:492:THR:OG1	1:f:503:GLN:NE2	2.52	0.43
1:f:516:GLN:HB2	1:f:556:GLN:HE22	1.83	0.43
1:g:639:LYS:HG2	1:g:640:ASN:N	2.34	0.43
1:h:232:LYS:HG2	1:h:670:GLU:CB	2.49	0.43
1:i:277:ARG:HH21	1:i:604:GLN:HB3	1.84	0.43
1:i:299:PRO:HD3	1:i:627:PHE:CE2	2.54	0.43
1:k:420:SER:N	1:k:722:ARG:O	2.51	0.43
1:m:232:LYS:HG2	1:m:670:GLU:CB	2.49	0.43
1:p:492:THR:OG1	1:p:503:GLN:NE2	2.52	0.43
1:q:639:LYS:HG2	1:q:640:ASN:N	2.34	0.43
1:r:292:ASN:HB3	1:r:688:GLN:OE1	2.19	0.43
1:t:292:ASN:HB3	1:t:688:GLN:OE1	2.18	0.43
1:v:292:ASN:HB3	1:v:688:GLN:OE1	2.19	0.43
1:x:292:ASN:HB3	1:x:688:GLN:OE1	2.18	0.43
1:y:292:ASN:HB3	1:y:688:GLN:OE1	2.19	0.43
1:y:299:PRO:HD3	1:y:627:PHE:CE2	2.54	0.43
1:y:492:THR:OG1	1:y:503:GLN:NE2	2.52	0.43
1:z:492:THR:OG1	1:z:503:GLN:NE2	2.52	0.43
1:2:492:THR:OG1	1:2:503:GLN:NE2	2.52	0.43
1:6:277:ARG:HH21	1:6:604:GLN:HB3	1.84	0.43
1:8:232:LYS:HG2	1:8:670:GLU:CB	2.49	0.43
1:A:299:PRO:HD3	1:A:627:PHE:CE2	2.54	0.43
1:C:516:GLN:HB2	1:C:556:GLN:HE22	1.83	0.43
1:E:492:THR:OG1	1:E:503:GLN:NE2	2.52	0.43
1:F:232:LYS:HG2	1:F:670:GLU:CB	2.49	0.43
1:F:292:ASN:HB3	1:F:688:GLN:OE1	2.19	0.43
1:F:299:PRO:HD3	1:F:627:PHE:CE2	2.54	0.43
1:G:277:ARG:HH21	1:G:604:GLN:HB3	1.84	0.43
1:H:299:PRO:HD3	1:H:627:PHE:CE2	2.54	0.43
1:I:492:THR:OG1	1:I:503:GLN:NE2	2.52	0.43
1:J:492:THR:OG1	1:J:503:GLN:NE2	2.52	0.43
1:M:232:LYS:HG2	1:M:670:GLU:CB	2.49	0.43
1:M:292:ASN:HB3	1:M:688:GLN:OE1	2.19	0.43
1:M:397:ARG:HG2	1:M:398:THR:N	2.32	0.43
1:M:492:THR:OG1	1:M:503:GLN:NE2	2.51	0.43
1:O:299:PRO:HD3	1:O:627:PHE:CE2	2.54	0.43
1:Q:292:ASN:HB3	1:Q:688:GLN:OE1	2.18	0.43
1:S:492:THR:OG1	1:S:503:GLN:NE2	2.52	0.43
1:S:639:LYS:HG2	1:S:640:ASN:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:292:ASN:HB3	1:U:688:GLN:OE1	2.19	0.43
1:W:232:LYS:HG2	1:W:670:GLU:CB	2.49	0.43
1:W:277:ARG:HH21	1:W:604:GLN:HB3	1.84	0.43
1:W:465:PHE:HE1	1:Y:504:VAL:HB	1.82	0.43
1:Z:232:LYS:HG2	1:Z:670:GLU:CB	2.49	0.43
1:a:492:THR:OG1	1:a:503:GLN:NE2	2.52	0.43
1:a:639:LYS:HG2	1:a:640:ASN:N	2.34	0.43
1:b:516:GLN:HB2	1:b:556:GLN:HE22	1.83	0.43
1:c:292:ASN:HB3	1:c:688:GLN:OE1	2.18	0.43
1:c:397:ARG:HG2	1:c:398:THR:N	2.32	0.43
1:d:516:GLN:HB2	1:d:556:GLN:HE22	1.83	0.43
1:g:516:GLN:HB2	1:g:556:GLN:HE22	1.83	0.43
1:i:232:LYS:HG2	1:i:670:GLU:CB	2.49	0.43
1:m:299:PRO:HD3	1:m:627:PHE:CE2	2.54	0.43
1:p:299:PRO:HD3	1:p:627:PHE:CE2	2.54	0.43
1:r:492:THR:OG1	1:r:503:GLN:NE2	2.52	0.43
1:r:639:LYS:HG2	1:r:640:ASN:N	2.34	0.43
1:s:232:LYS:HG2	1:s:670:GLU:CB	2.49	0.43
1:s:292:ASN:HB3	1:s:688:GLN:OE1	2.19	0.43
1:v:299:PRO:HD3	1:v:627:PHE:CE2	2.54	0.43
1:w:492:THR:OG1	1:w:503:GLN:NE2	2.52	0.43
1:x:299:PRO:HD3	1:x:627:PHE:CE2	2.54	0.43
1:y:232:LYS:HG2	1:y:670:GLU:CB	2.49	0.43
1:1:395:MET:HE3	1:1:641:THR:HG21	1.99	0.43
1:2:395:MET:HE3	1:2:641:THR:HG21	1.99	0.43
1:3:492:THR:OG1	1:3:503:GLN:NE2	2.52	0.43
1:4:299:PRO:HD3	1:4:627:PHE:CE2	2.54	0.43
1:4:492:THR:OG1	1:4:503:GLN:NE2	2.52	0.43
1:7:299:PRO:HD3	1:7:627:PHE:CE2	2.54	0.43
1:C:382:ARG:HH12	1:M:554:GLU:HB2	1.82	0.43
1:D:639:LYS:HG2	1:D:640:ASN:N	2.34	0.43
1:E:292:ASN:HB3	1:E:688:GLN:OE1	2.18	0.43
1:G:292:ASN:HB3	1:G:688:GLN:OE1	2.19	0.43
1:H:492:THR:OG1	1:H:503:GLN:NE2	2.52	0.43
1:I:639:LYS:HG2	1:I:640:ASN:N	2.34	0.43
1:J:299:PRO:HD3	1:J:627:PHE:CE2	2.54	0.43
1:J:395:MET:HE3	1:J:641:THR:HG21	1.99	0.43
1:K:299:PRO:HD3	1:K:627:PHE:CE2	2.54	0.43
1:K:342:PRO:HB3	1:8:421:GLN:NE2	2.34	0.43
1:L:299:PRO:HD3	1:L:627:PHE:CE2	2.54	0.43
1:N:299:PRO:HD3	1:N:627:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:639:LYS:HG2	1:P:640:ASN:N	2.34	0.43
1:Q:516:GLN:HB2	1:Q:556:GLN:HE22	1.83	0.43
1:T:406:TYR:OH	1:T:631:HIS:O	2.30	0.43
1:U:232:LYS:HG2	1:U:670:GLU:CB	2.49	0.43
1:V:299:PRO:HD3	1:V:627:PHE:CE2	2.54	0.43
1:W:492:THR:OG1	1:W:503:GLN:NE2	2.52	0.43
1:X:299:PRO:HD3	1:X:627:PHE:CE2	2.54	0.43
1:Y:238:VAL:CG2	1:4:644:PRO:HG2	2.48	0.43
1:Z:516:GLN:HB2	1:Z:556:GLN:HE22	1.83	0.43
1:e:232:LYS:HG2	1:e:670:GLU:CB	2.49	0.43
1:e:397:ARG:HG2	1:e:398:THR:N	2.32	0.43
1:h:397:ARG:HG2	1:h:398:THR:N	2.32	0.43
1:h:492:THR:OG1	1:h:503:GLN:NE2	2.52	0.43
1:k:639:LYS:HG2	1:k:640:ASN:N	2.34	0.43
1:l:299:PRO:HD3	1:l:627:PHE:CE2	2.54	0.43
1:m:277:ARG:HH21	1:m:604:GLN:HB3	1.84	0.43
1:o:299:PRO:HD3	1:o:627:PHE:CE2	2.54	0.43
1:p:277:ARG:HH21	1:p:604:GLN:HB3	1.84	0.43
1:q:420:SER:N	1:q:722:ARG:O	2.51	0.43
1:r:277:ARG:HH21	1:r:604:GLN:HB3	1.84	0.43
1:t:277:ARG:HH21	1:t:604:GLN:HB3	1.84	0.43
1:u:303:ARG:NH1	1:u:670:GLU:OE2	2.43	0.43
1:u:492:THR:OG1	1:u:503:GLN:NE2	2.52	0.43
1:u:639:LYS:HG2	1:u:640:ASN:N	2.34	0.43
1:x:516:GLN:HB2	1:x:556:GLN:HE22	1.83	0.43
1:z:299:PRO:HD3	1:z:627:PHE:CE2	2.54	0.43
1:z:342:PRO:HB3	1:2:421:GLN:NE2	2.34	0.43
1:2:299:PRO:HD3	1:2:627:PHE:CE2	2.54	0.43
1:3:639:LYS:HG2	1:3:640:ASN:N	2.34	0.43
1:5:299:PRO:HD3	1:5:627:PHE:CE2	2.54	0.43
1:5:492:THR:OG1	1:5:503:GLN:NE2	2.52	0.43
1:6:492:THR:OG1	1:6:503:GLN:NE2	2.52	0.43
1:B:342:PRO:HB3	1:L:421:GLN:NE2	2.34	0.43
1:C:292:ASN:HB3	1:C:688:GLN:OE1	2.19	0.43
1:D:292:ASN:HB3	1:D:688:GLN:OE1	2.19	0.43
1:F:439:VAL:HG13	1:F:440:SER:N	2.34	0.43
1:G:492:THR:OG1	1:G:503:GLN:NE2	2.52	0.43
1:G:639:LYS:HG2	1:G:640:ASN:N	2.34	0.43
1:H:465:PHE:HE1	1:W:504:VAL:HB	1.84	0.43
1:J:421:GLN:NE2	1:L:342:PRO:HB3	2.34	0.43
1:L:639:LYS:HG2	1:L:640:ASN:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:397:ARG:HG2	1:R:398:THR:N	2.32	0.43
1:S:277:ARG:HH21	1:S:604:GLN:HB3	1.84	0.43
1:T:277:ARG:HH21	1:T:604:GLN:HB3	1.84	0.43
1:T:639:LYS:HG2	1:T:640:ASN:N	2.34	0.43
1:U:639:LYS:HG2	1:U:640:ASN:N	2.34	0.43
1:V:277:ARG:HH21	1:V:604:GLN:HB3	1.84	0.43
1:Z:292:ASN:HB3	1:Z:688:GLN:OE1	2.19	0.43
1:Z:421:GLN:NE2	1:4:342:PRO:HB3	2.34	0.43
1:Z:639:LYS:HG2	1:Z:640:ASN:N	2.34	0.43
1:b:406:TYR:OH	1:b:631:HIS:O	2.30	0.43
1:c:232:LYS:HG2	1:c:670:GLU:CB	2.49	0.43
1:f:277:ARG:HH21	1:f:604:GLN:HB3	1.84	0.43
1:f:406:TYR:OH	1:f:631:HIS:O	2.30	0.43
1:g:292:ASN:HB3	1:g:688:GLN:OE1	2.19	0.43
1:j:292:ASN:HB3	1:j:688:GLN:OE1	2.19	0.43
1:j:639:LYS:HG2	1:j:640:ASN:N	2.34	0.43
1:k:292:ASN:HB3	1:k:688:GLN:OE1	2.19	0.43
1:l:492:THR:OG1	1:l:503:GLN:NE2	2.52	0.43
1:m:639:LYS:HG2	1:m:640:ASN:N	2.34	0.43
1:n:292:ASN:HB3	1:n:688:GLN:OE1	2.18	0.43
1:t:492:THR:OG1	1:t:503:GLN:NE2	2.52	0.43
1:t:639:LYS:HG2	1:t:640:ASN:N	2.34	0.43
1:w:382:ARG:HH12	1:y:554:GLU:HB2	1.83	0.43
1:x:232:LYS:HG2	1:x:670:GLU:CB	2.49	0.43
1:1:299:PRO:HD3	1:1:627:PHE:CE2	2.54	0.43
1:5:228:ARG:NH1	1:5:672:GLU:OE2	2.35	0.43
1:5:342:PRO:HB3	1:7:421:GLN:NE2	2.34	0.43
1:6:232:LYS:HG2	1:6:670:GLU:CB	2.49	0.43
1:7:639:LYS:HG2	1:7:640:ASN:N	2.34	0.43
1:C:421:GLN:NE2	1:b:342:PRO:HB3	2.34	0.43
1:E:277:ARG:HH21	1:E:604:GLN:HB3	1.84	0.43
1:E:382:ARG:HH12	1:F:554:GLU:HB2	1.83	0.43
1:H:292:ASN:HB3	1:H:688:GLN:OE1	2.18	0.43
1:H:439:VAL:HG13	1:H:440:SER:N	2.34	0.43
1:K:292:ASN:HB3	1:K:688:GLN:OE1	2.19	0.43
1:K:459:ASN:OD1	1:K:459:ASN:N	2.46	0.43
1:O:421:GLN:NE2	1:m:342:PRO:HB3	2.34	0.43
1:P:232:LYS:HG2	1:P:670:GLU:CB	2.49	0.43
1:P:492:THR:OG1	1:P:503:GLN:NE2	2.52	0.43
1:Q:232:LYS:HG2	1:Q:670:GLU:CB	2.49	0.43
1:Q:277:ARG:HH21	1:Q:604:GLN:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:420:SER:N	1:Q:722:ARG:O	2.51	0.43
1:R:420:SER:N	1:R:722:ARG:O	2.51	0.43
1:T:303:ARG:NH1	1:T:670:GLU:OE2	2.43	0.43
1:T:342:PRO:HB3	1:l:421:GLN:NE2	2.34	0.43
1:T:421:GLN:NE2	1:d:342:PRO:HB3	2.34	0.43
1:W:292:ASN:HB3	1:W:688:GLN:OE1	2.19	0.43
1:W:439:VAL:HG13	1:W:440:SER:N	2.34	0.43
1:b:277:ARG:HH21	1:b:604:GLN:HB3	1.84	0.43
1:d:292:ASN:HB3	1:d:688:GLN:OE1	2.18	0.43
1:d:439:VAL:HG13	1:d:440:SER:N	2.34	0.43
1:e:292:ASN:HB3	1:e:688:GLN:OE1	2.19	0.43
1:f:342:PRO:HB3	1:g:421:GLN:NE2	2.34	0.43
1:g:382:ARG:HH12	1:h:554:GLU:HB2	1.83	0.43
1:j:492:THR:OG1	1:j:503:GLN:NE2	2.52	0.43
1:l:277:ARG:HH21	1:l:604:GLN:HB3	1.84	0.43
1:m:303:ARG:NH1	1:m:670:GLU:OE2	2.43	0.43
1:n:277:ARG:HH21	1:n:604:GLN:HB3	1.84	0.43
1:q:397:ARG:HG2	1:q:398:THR:N	2.32	0.43
1:s:305:LYS:HB3	1:s:668:THR:CG2	2.49	0.43
1:s:639:LYS:HG2	1:s:640:ASN:N	2.34	0.43
1:v:476:ASN:OD1	1:v:520:THR:OG1	2.26	0.43
1:w:292:ASN:HB3	1:w:688:GLN:OE1	2.19	0.43
1:x:277:ARG:HH21	1:x:604:GLN:HB3	1.84	0.43
1:y:439:VAL:HG13	1:y:440:SER:N	2.34	0.43
1:2:232:LYS:HG2	1:2:670:GLU:CB	2.49	0.43
1:3:232:LYS:HG2	1:3:670:GLU:CB	2.49	0.43
1:4:439:VAL:HG13	1:4:440:SER:N	2.34	0.43
1:5:421:GLN:NE2	1:6:342:PRO:HB3	2.34	0.43
1:5:439:VAL:HG13	1:5:440:SER:N	2.34	0.43
1:6:439:VAL:HG13	1:6:440:SER:N	2.34	0.43
1:8:292:ASN:HB3	1:8:688:GLN:OE1	2.19	0.43
1:8:639:LYS:HG2	1:8:640:ASN:N	2.34	0.43
1:A:476:ASN:OD1	1:A:520:THR:OG1	2.26	0.43
1:B:299:PRO:HD3	1:B:627:PHE:CE2	2.54	0.43
1:B:420:SER:N	1:B:722:ARG:O	2.51	0.43
1:C:232:LYS:HG2	1:C:670:GLU:CB	2.49	0.43
1:C:439:VAL:HG13	1:C:440:SER:N	2.34	0.43
1:D:299:PRO:HD3	1:D:627:PHE:CE2	2.54	0.43
1:H:305:LYS:HB3	1:H:668:THR:CG2	2.49	0.43
1:H:382:ARG:HH12	1:Y:554:GLU:HB2	1.83	0.43
1:H:483:ARG:O	1:Y:441:THR:HG21	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:439:VAL:HG13	1:I:440:SER:N	2.34	0.43
1:J:232:LYS:HG2	1:J:670:GLU:CB	2.49	0.43
1:K:439:VAL:HG13	1:K:440:SER:N	2.34	0.43
1:K:639:LYS:HG2	1:K:640:ASN:N	2.34	0.43
1:M:639:LYS:HG2	1:M:640:ASN:N	2.34	0.43
1:O:277:ARG:HH21	1:O:604:GLN:HB3	1.84	0.43
1:O:492:THR:OG1	1:O:503:GLN:NE2	2.52	0.43
1:R:303:ARG:NH1	1:R:670:GLU:OE2	2.43	0.43
1:U:305:LYS:HB3	1:U:668:THR:CG2	2.49	0.43
1:W:299:PRO:HD3	1:W:627:PHE:CE2	2.54	0.43
1:W:305:LYS:HB3	1:W:668:THR:CG2	2.49	0.43
1:Y:277:ARG:HH21	1:Y:604:GLN:HB3	1.84	0.43
1:Y:639:LYS:HG2	1:Y:640:ASN:N	2.34	0.43
1:a:232:LYS:HG2	1:a:670:GLU:CB	2.49	0.43
1:c:516:GLN:HB2	1:c:556:GLN:HE22	1.83	0.43
1:d:277:ARG:HH21	1:d:604:GLN:HB3	1.84	0.43
1:d:305:LYS:HB3	1:d:668:THR:CG2	2.49	0.43
1:g:439:VAL:HG13	1:g:440:SER:N	2.34	0.43
1:h:305:LYS:HB3	1:h:668:THR:CG2	2.49	0.43
1:j:232:LYS:HG2	1:j:670:GLU:CB	2.49	0.43
1:j:397:ARG:HG2	1:j:398:THR:N	2.32	0.43
1:m:421:GLN:NE2	1:n:342:PRO:HB3	2.34	0.43
1:n:439:VAL:HG13	1:n:440:SER:N	2.34	0.43
1:q:465:PHE:HE1	1:r:504:VAL:HB	1.82	0.43
1:r:299:PRO:HD3	1:r:627:PHE:CE2	2.54	0.43
1:w:277:ARG:HH21	1:w:604:GLN:HB3	1.84	0.43
1:x:420:SER:N	1:x:722:ARG:O	2.51	0.43
1:y:420:SER:N	1:y:722:ARG:O	2.51	0.43
1:z:639:LYS:HG2	1:z:640:ASN:N	2.34	0.43
1:1:305:LYS:HB3	1:1:668:THR:CG2	2.49	0.43
1:5:292:ASN:HB3	1:5:688:GLN:OE1	2.19	0.43
1:5:305:LYS:HB3	1:5:668:THR:CG2	2.49	0.43
1:6:292:ASN:HB3	1:6:688:GLN:OE1	2.19	0.43
1:6:305:LYS:HB3	1:6:668:THR:CG2	2.49	0.43
1:7:277:ARG:HH21	1:7:604:GLN:HB3	1.84	0.43
1:B:305:LYS:HB3	1:B:668:THR:CG2	2.49	0.42
1:F:342:PRO:HB3	1:Q:421:GLN:NE2	2.34	0.42
1:F:420:SER:N	1:F:722:ARG:O	2.51	0.42
1:F:492:THR:OG1	1:F:503:GLN:NE2	2.52	0.42
1:I:292:ASN:HB3	1:I:688:GLN:OE1	2.19	0.42
1:I:303:ARG:NH1	1:I:670:GLU:OE2	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:277:ARG:HH21	1:L:604:GLN:HB3	1.84	0.42
1:M:277:ARG:HH21	1:M:604:GLN:HB3	1.84	0.42
1:M:305:LYS:HB3	1:M:668:THR:CG2	2.49	0.42
1:M:439:VAL:HG13	1:M:440:SER:N	2.34	0.42
1:N:492:THR:OG1	1:N:503:GLN:NE2	2.52	0.42
1:O:305:LYS:HB3	1:O:668:THR:CG2	2.49	0.42
1:P:439:VAL:HG13	1:P:440:SER:N	2.34	0.42
1:Q:639:LYS:HG2	1:Q:640:ASN:N	2.34	0.42
1:S:299:PRO:HD3	1:S:627:PHE:CE2	2.54	0.42
1:T:516:GLN:HB2	1:T:556:GLN:HE22	1.83	0.42
1:V:342:PRO:HB3	1:X:421:GLN:NE2	2.34	0.42
1:V:639:LYS:HG2	1:V:640:ASN:N	2.34	0.42
1:Y:305:LYS:HB3	1:Y:668:THR:CG2	2.49	0.42
1:a:516:GLN:HB2	1:a:556:GLN:HE22	1.83	0.42
1:c:305:LYS:HB3	1:c:668:THR:CG2	2.49	0.42
1:d:232:LYS:HG2	1:d:670:GLU:CB	2.49	0.42
1:e:305:LYS:HB3	1:e:668:THR:CG2	2.49	0.42
1:g:232:LYS:HG2	1:g:670:GLU:CB	2.49	0.42
1:g:305:LYS:HB3	1:g:668:THR:CG2	2.49	0.42
1:h:299:PRO:HD3	1:h:627:PHE:CE2	2.54	0.42
1:h:439:VAL:HG13	1:h:440:SER:N	2.34	0.42
1:h:639:LYS:HG2	1:h:640:ASN:N	2.34	0.42
1:i:492:THR:OG1	1:i:503:GLN:NE2	2.52	0.42
1:l:305:LYS:HB3	1:l:668:THR:CG2	2.49	0.42
1:m:292:ASN:HB3	1:m:688:GLN:OE1	2.19	0.42
1:n:232:LYS:HG2	1:n:670:GLU:CB	2.49	0.42
1:n:305:LYS:HB3	1:n:668:THR:CG2	2.49	0.42
1:o:292:ASN:HB3	1:o:688:GLN:OE1	2.18	0.42
1:p:639:LYS:HG2	1:p:640:ASN:N	2.34	0.42
1:q:292:ASN:HB3	1:q:688:GLN:OE1	2.19	0.42
1:u:292:ASN:HB3	1:u:688:GLN:OE1	2.19	0.42
1:u:420:SER:N	1:u:722:ARG:O	2.51	0.42
1:u:439:VAL:HG13	1:u:440:SER:N	2.34	0.42
1:z:277:ARG:HH21	1:z:604:GLN:HB3	1.84	0.42
1:1:420:SER:N	1:1:722:ARG:O	2.51	0.42
1:4:292:ASN:HB3	1:4:688:GLN:OE1	2.19	0.42
1:4:639:LYS:HG2	1:4:640:ASN:N	2.34	0.42
1:5:420:SER:N	1:5:722:ARG:O	2.51	0.42
1:A:439:VAL:HG13	1:A:440:SER:N	2.34	0.42
1:B:421:GLN:NE2	1:J:342:PRO:HB3	2.34	0.42
1:C:305:LYS:HB3	1:C:668:THR:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:342:PRO:HB3	1:F:421:GLN:NE2	2.34	0.42
1:F:305:LYS:HB3	1:F:668:THR:CG2	2.49	0.42
1:H:420:SER:N	1:H:722:ARG:O	2.51	0.42
1:H:421:GLN:NE2	1:W:342:PRO:HB3	2.34	0.42
1:H:554:GLU:HB2	1:W:382:ARG:HH12	1.84	0.42
1:I:420:SER:N	1:I:722:ARG:O	2.51	0.42
1:M:299:PRO:HD3	1:M:627:PHE:CE2	2.54	0.42
1:N:292:ASN:HB3	1:N:688:GLN:OE1	2.19	0.42
1:N:305:LYS:HB3	1:N:668:THR:CG2	2.49	0.42
1:P:397:ARG:HG2	1:P:398:THR:N	2.32	0.42
1:Q:305:LYS:HB3	1:Q:668:THR:CG2	2.49	0.42
1:R:277:ARG:HH21	1:R:604:GLN:HB3	1.84	0.42
1:R:292:ASN:HB3	1:R:688:GLN:OE1	2.19	0.42
1:T:292:ASN:HB3	1:T:688:GLN:OE1	2.19	0.42
1:T:633:PRO:HA	1:T:634:PRO:HD3	1.97	0.42
1:U:439:VAL:HG13	1:U:440:SER:N	2.34	0.42
1:V:305:LYS:HB3	1:V:668:THR:CG2	2.49	0.42
1:W:639:LYS:HG2	1:W:640:ASN:N	2.34	0.42
1:X:292:ASN:HB3	1:X:688:GLN:OE1	2.19	0.42
1:X:342:PRO:HB3	1:e:421:GLN:NE2	2.34	0.42
1:Y:439:VAL:HG13	1:Y:440:SER:N	2.34	0.42
1:c:421:GLN:NE2	1:o:342:PRO:HB3	2.34	0.42
1:e:516:GLN:HB2	1:e:556:GLN:HE22	1.83	0.42
1:f:232:LYS:HG2	1:f:670:GLU:CB	2.49	0.42
1:h:277:ARG:HH21	1:h:604:GLN:HB3	1.84	0.42
1:i:292:ASN:HB3	1:i:688:GLN:OE1	2.19	0.42
1:j:439:VAL:HG13	1:j:440:SER:N	2.34	0.42
1:k:299:PRO:HD3	1:k:627:PHE:CE2	2.54	0.42
1:k:439:VAL:HG13	1:k:440:SER:N	2.34	0.42
1:m:516:GLN:HB2	1:m:556:GLN:HE22	1.83	0.42
1:n:492:THR:OG1	1:n:503:GLN:NE2	2.52	0.42
1:o:305:LYS:HB3	1:o:668:THR:CG2	2.49	0.42
1:p:305:LYS:HB3	1:p:668:THR:CG2	2.49	0.42
1:q:277:ARG:HH21	1:q:604:GLN:HB3	1.84	0.42
1:q:305:LYS:HB3	1:q:668:THR:CG2	2.49	0.42
1:q:492:THR:OG1	1:q:503:GLN:NE2	2.52	0.42
1:s:439:VAL:HG13	1:s:440:SER:N	2.34	0.42
1:t:299:PRO:HD3	1:t:627:PHE:CE2	2.54	0.42
1:u:277:ARG:HH21	1:u:604:GLN:HB3	1.84	0.42
1:u:299:PRO:HD3	1:u:627:PHE:CE2	2.54	0.42
1:w:342:PRO:HB3	1:y:421:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:421:GLN:NE2	1:y:342:PRO:HB3	2.34	0.42
1:x:639:LYS:HG2	1:x:640:ASN:N	2.34	0.42
1:y:305:LYS:HB3	1:y:668:THR:CG2	2.49	0.42
1:z:421:GLN:NE2	1:1:342:PRO:HB3	2.34	0.42
1:4:232:LYS:HG2	1:4:670:GLU:CB	2.49	0.42
1:4:459:ASN:OD1	1:4:459:ASN:N	2.46	0.42
1:6:299:PRO:HD3	1:6:627:PHE:CE2	2.54	0.42
1:7:305:LYS:HB3	1:7:668:THR:CG2	2.49	0.42
1:A:492:THR:OG1	1:A:503:GLN:NE2	2.52	0.42
1:B:292:ASN:HB3	1:B:688:GLN:OE1	2.19	0.42
1:D:232:LYS:HG2	1:D:670:GLU:CB	2.49	0.42
1:D:439:VAL:HG13	1:D:440:SER:N	2.34	0.42
1:F:639:LYS:HG2	1:F:640:ASN:N	2.34	0.42
1:G:299:PRO:HD3	1:G:627:PHE:CE2	2.54	0.42
1:K:232:LYS:HG2	1:K:670:GLU:CB	2.49	0.42
1:O:459:ASN:OD1	1:O:459:ASN:N	2.46	0.42
1:P:215:SER:HB2	1:P:308:ASN:H	1.85	0.42
1:P:277:ARG:HH21	1:P:604:GLN:HB3	1.84	0.42
1:R:305:LYS:HB3	1:R:668:THR:CG2	2.49	0.42
1:R:465:PHE:HE1	1:S:504:VAL:HB	1.82	0.42
1:U:277:ARG:HH21	1:U:604:GLN:HB3	1.84	0.42
1:U:516:GLN:HB2	1:U:556:GLN:HE22	1.83	0.42
1:V:232:LYS:HG2	1:V:670:GLU:CB	2.49	0.42
1:X:305:LYS:HB3	1:X:668:THR:CG2	2.49	0.42
1:Z:299:PRO:HD3	1:Z:627:PHE:CE2	2.54	0.42
1:Z:492:THR:OG1	1:Z:503:GLN:NE2	2.52	0.42
1:c:639:LYS:HG2	1:c:640:ASN:N	2.34	0.42
1:d:492:THR:OG1	1:d:503:GLN:NE2	2.52	0.42
1:i:439:VAL:HG13	1:i:440:SER:N	2.34	0.42
1:k:232:LYS:HG2	1:k:670:GLU:CB	2.49	0.42
1:k:277:ARG:HH21	1:k:604:GLN:HB3	1.84	0.42
1:p:232:LYS:HG2	1:p:670:GLU:CB	2.49	0.42
1:q:303:ARG:NH1	1:q:670:GLU:OE2	2.43	0.42
1:r:439:VAL:HG13	1:r:440:SER:N	2.34	0.42
1:s:492:THR:OG1	1:s:503:GLN:NE2	2.51	0.42
1:u:215:SER:HB2	1:u:308:ASN:H	1.85	0.42
1:v:215:SER:HB2	1:v:308:ASN:H	1.85	0.42
1:v:439:VAL:HG13	1:v:440:SER:N	2.34	0.42
1:x:305:LYS:HB3	1:x:668:THR:CG2	2.49	0.42
1:y:277:ARG:HH21	1:y:604:GLN:HB3	1.84	0.42
1:y:639:LYS:HG2	1:y:640:ASN:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:421:GLN:NE2	1:2:342:PRO:HB3	2.34	0.42
1:3:303:ARG:NH1	1:3:670:GLU:OE2	2.43	0.42
1:3:516:GLN:HB2	1:3:556:GLN:HE22	1.83	0.42
1:6:639:LYS:HG2	1:6:640:ASN:N	2.34	0.42
1:7:232:LYS:HG2	1:7:670:GLU:CB	2.49	0.42
1:7:439:VAL:HG13	1:7:440:SER:N	2.34	0.42
1:8:299:PRO:HD3	1:8:627:PHE:CE2	2.54	0.42
1:8:492:THR:OG1	1:8:503:GLN:NE2	2.52	0.42
1:A:215:SER:HB2	1:A:308:ASN:H	1.85	0.42
1:D:441:THR:HG21	1:N:483:ARG:O	2.19	0.42
1:D:513:ASN:OD1	1:D:513:ASN:N	2.53	0.42
1:E:247:TYR:OH	1:E:389:GLU:HG3	2.20	0.42
1:F:513:ASN:OD1	1:F:513:ASN:N	2.53	0.42
1:G:215:SER:HB2	1:G:308:ASN:H	1.85	0.42
1:H:441:THR:HG21	1:W:483:ARG:O	2.19	0.42
1:I:215:SER:HB2	1:I:308:ASN:H	1.85	0.42
1:I:277:ARG:HH21	1:I:604:GLN:HB3	1.84	0.42
1:J:277:ARG:HH21	1:J:604:GLN:HB3	1.84	0.42
1:J:420:SER:N	1:J:722:ARG:O	2.51	0.42
1:J:439:VAL:HG13	1:J:440:SER:N	2.34	0.42
1:N:439:VAL:HG13	1:N:440:SER:N	2.34	0.42
1:R:492:THR:OG1	1:R:503:GLN:NE2	2.52	0.42
1:S:439:VAL:HG13	1:S:440:SER:N	2.34	0.42
1:U:299:PRO:HD3	1:U:627:PHE:CE2	2.54	0.42
1:U:590:ILE:HD13	1:U:590:ILE:HA	1.92	0.42
1:Z:215:SER:HB2	1:Z:308:ASN:H	1.85	0.42
1:a:303:ARG:NH1	1:a:670:GLU:OE2	2.43	0.42
1:b:232:LYS:HG2	1:b:670:GLU:CB	2.49	0.42
1:e:639:LYS:HG2	1:e:640:ASN:N	2.34	0.42
1:f:305:LYS:HB3	1:f:668:THR:CG2	2.49	0.42
1:g:277:ARG:HH21	1:g:604:GLN:HB3	1.84	0.42
1:g:420:SER:N	1:g:722:ARG:O	2.51	0.42
1:i:305:LYS:HB3	1:i:668:THR:CG2	2.49	0.42
1:j:247:TYR:OH	1:j:389:GLU:HG3	2.20	0.42
1:m:633:PRO:HA	1:m:634:PRO:HD3	1.97	0.42
1:p:439:VAL:HG13	1:p:440:SER:N	2.34	0.42
1:s:299:PRO:HD3	1:s:627:PHE:CE2	2.54	0.42
1:t:382:ARG:HH12	1:v:554:GLU:HB2	1.83	0.42
1:v:492:THR:OG1	1:v:503:GLN:NE2	2.52	0.42
1:w:247:TYR:OH	1:w:389:GLU:HG3	2.20	0.42
1:w:639:LYS:HG2	1:w:640:ASN:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:513:ASN:OD1	1:y:513:ASN:N	2.53	0.42
1:z:439:VAL:HG13	1:z:440:SER:N	2.34	0.42
1:1:292:ASN:HB3	1:1:688:GLN:OE1	2.19	0.42
1:2:439:VAL:HG13	1:2:440:SER:N	2.34	0.42
1:8:215:SER:HB2	1:8:308:ASN:H	1.85	0.42
1:A:305:LYS:HB3	1:A:668:THR:CG2	2.49	0.42
1:B:215:SER:HB2	1:B:308:ASN:H	1.85	0.42
1:C:277:ARG:HH21	1:C:604:GLN:HB3	1.84	0.42
1:C:420:SER:N	1:C:722:ARG:O	2.51	0.42
1:D:277:ARG:HH21	1:D:604:GLN:HB3	1.84	0.42
1:E:421:GLN:NE2	1:Q:342:PRO:HB3	2.34	0.42
1:F:277:ARG:HH21	1:F:604:GLN:HB3	1.84	0.42
1:H:238:VAL:CG2	1:I:644:PRO:HG2	2.49	0.42
1:H:277:ARG:HH21	1:H:604:GLN:HB3	1.84	0.42
1:I:299:PRO:HD3	1:I:627:PHE:CE2	2.54	0.42
1:I:391:PHE:N	1:I:391:PHE:CD1	2.88	0.42
1:L:247:TYR:OH	1:L:389:GLU:HG3	2.20	0.42
1:L:439:VAL:HG13	1:L:440:SER:N	2.34	0.42
1:M:247:TYR:OH	1:M:389:GLU:HG3	2.20	0.42
1:O:215:SER:HB2	1:O:308:ASN:H	1.85	0.42
1:P:247:TYR:OH	1:P:389:GLU:HG3	2.20	0.42
1:R:215:SER:HB2	1:R:308:ASN:H	1.85	0.42
1:S:232:LYS:HG2	1:S:670:GLU:CB	2.49	0.42
1:U:492:THR:OG1	1:U:503:GLN:NE2	2.52	0.42
1:V:439:VAL:HG13	1:V:440:SER:N	2.34	0.42
1:Z:420:SER:N	1:Z:722:ARG:O	2.51	0.42
1:a:247:TYR:OH	1:a:389:GLU:HG3	2.20	0.42
1:b:305:LYS:HB3	1:b:668:THR:CG2	2.49	0.42
1:c:420:SER:N	1:c:722:ARG:O	2.51	0.42
1:c:590:ILE:HD13	1:c:590:ILE:HA	1.92	0.42
1:d:299:PRO:HD3	1:d:627:PHE:CE2	2.54	0.42
1:e:590:ILE:HD13	1:e:590:ILE:HA	1.92	0.42
1:g:492:THR:OG1	1:g:503:GLN:NE2	2.52	0.42
1:h:247:TYR:OH	1:h:389:GLU:HG3	2.20	0.42
1:i:483:ARG:O	1:k:441:THR:HG21	2.20	0.42
1:j:215:SER:HB2	1:j:308:ASN:H	1.85	0.42
1:j:277:ARG:HH21	1:j:604:GLN:HB3	1.84	0.42
1:k:513:ASN:OD1	1:k:513:ASN:N	2.53	0.42
1:l:215:SER:HB2	1:l:308:ASN:H	1.85	0.42
1:o:232:LYS:HG2	1:o:670:GLU:CB	2.49	0.42
1:o:277:ARG:HH21	1:o:604:GLN:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:215:SER:HB2	1:q:308:ASN:H	1.85	0.42
1:s:277:ARG:HH21	1:s:604:GLN:HB3	1.84	0.42
1:s:516:GLN:HB2	1:s:556:GLN:HE22	1.83	0.42
1:s:590:ILE:HD13	1:s:590:ILE:HA	1.92	0.42
1:t:215:SER:HB2	1:t:308:ASN:H	1.85	0.42
1:w:299:PRO:HD3	1:w:627:PHE:CE2	2.54	0.42
1:w:421:GLN:NE2	1:x:342:PRO:HB3	2.34	0.42
1:1:215:SER:HB2	1:1:308:ASN:H	1.85	0.42
1:2:277:ARG:HH21	1:2:604:GLN:HB3	1.84	0.42
1:2:305:LYS:HB3	1:2:668:THR:CG2	2.49	0.42
1:2:420:SER:N	1:2:722:ARG:O	2.51	0.42
1:3:247:TYR:OH	1:3:389:GLU:HG3	2.20	0.42
1:7:303:ARG:NH1	1:7:670:GLU:OE2	2.43	0.42
1:B:397:ARG:HG2	1:B:398:THR:N	2.32	0.42
1:C:397:ARG:HG2	1:C:398:THR:N	2.32	0.42
1:C:492:THR:OG1	1:C:503:GLN:NE2	2.52	0.42
1:E:235:ARG:HG3	1:E:353:LEU:HD22	2.02	0.42
1:E:299:PRO:HD3	1:E:627:PHE:CE2	2.54	0.42
1:E:639:LYS:HG2	1:E:640:ASN:N	2.34	0.42
1:G:513:ASN:N	1:G:513:ASN:OD1	2.53	0.42
1:H:215:SER:HB2	1:H:308:ASN:H	1.85	0.42
1:H:328:THR:HG22	1:Z:310:GLN:HG2	2.01	0.42
1:J:215:SER:HB2	1:J:308:ASN:H	1.85	0.42
1:J:305:LYS:HB3	1:J:668:THR:CG2	2.49	0.42
1:O:292:ASN:HB3	1:O:688:GLN:OE1	2.19	0.42
1:O:513:ASN:N	1:O:513:ASN:OD1	2.53	0.42
1:W:235:ARG:HG3	1:W:353:LEU:HD22	2.02	0.42
1:W:513:ASN:N	1:W:513:ASN:OD1	2.53	0.42
1:X:277:ARG:HH21	1:X:604:GLN:HB3	1.84	0.42
1:X:492:THR:OG1	1:X:503:GLN:NE2	2.51	0.42
1:Y:232:LYS:HG2	1:Y:670:GLU:CB	2.49	0.42
1:Z:305:LYS:HB3	1:Z:668:THR:CG2	2.49	0.42
1:Z:439:VAL:HG13	1:Z:440:SER:N	2.34	0.42
1:a:215:SER:HB2	1:a:308:ASN:H	1.85	0.42
1:c:247:TYR:OH	1:c:389:GLU:HG3	2.20	0.42
1:e:420:SER:N	1:e:722:ARG:O	2.51	0.42
1:g:397:ARG:HG2	1:g:398:THR:N	2.32	0.42
1:l:292:ASN:HB3	1:l:688:GLN:OE1	2.19	0.42
1:l:459:ASN:OD1	1:l:459:ASN:N	2.46	0.42
1:l:513:ASN:N	1:l:513:ASN:OD1	2.53	0.42
1:n:299:PRO:HD3	1:n:627:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:305:LYS:HB3	1:u:668:THR:CG2	2.49	0.42
1:v:232:LYS:HG2	1:v:670:GLU:CB	2.49	0.42
1:v:305:LYS:HB3	1:v:668:THR:CG2	2.49	0.42
1:w:235:ARG:HG3	1:w:353:LEU:HD22	2.02	0.42
1:x:439:VAL:HG13	1:x:440:SER:N	2.34	0.42
1:z:247:TYR:OH	1:z:389:GLU:HG3	2.20	0.42
1:2:215:SER:HB2	1:2:308:ASN:H	1.85	0.42
1:2:247:TYR:OH	1:2:389:GLU:HG3	2.20	0.42
1:3:215:SER:HB2	1:3:308:ASN:H	1.85	0.42
1:4:235:ARG:HG3	1:4:353:LEU:HD22	2.02	0.42
1:5:277:ARG:HH21	1:5:604:GLN:HB3	1.84	0.42
1:6:235:ARG:HG3	1:6:353:LEU:HD22	2.02	0.42
1:6:513:ASN:OD1	1:6:513:ASN:N	2.53	0.42
1:8:420:SER:N	1:8:722:ARG:O	2.51	0.42
1:A:232:LYS:HG2	1:A:670:GLU:CB	2.49	0.42
1:A:513:ASN:OD1	1:A:513:ASN:N	2.53	0.42
1:A:554:GLU:HB2	1:G:382:ARG:HH12	1.83	0.42
1:B:277:ARG:HH21	1:B:604:GLN:HB3	1.84	0.42
1:D:247:TYR:OH	1:D:389:GLU:HG3	2.20	0.42
1:E:439:VAL:HG13	1:E:440:SER:N	2.34	0.42
1:F:235:ARG:HG3	1:F:353:LEU:HD22	2.02	0.42
1:F:397:ARG:HG2	1:F:398:THR:N	2.32	0.42
1:I:305:LYS:HB3	1:I:668:THR:CG2	2.49	0.42
1:J:247:TYR:OH	1:J:389:GLU:HG3	2.20	0.42
1:K:235:ARG:HG3	1:K:353:LEU:HD22	2.02	0.42
1:L:235:ARG:HG3	1:L:353:LEU:HD22	2.02	0.42
1:L:513:ASN:N	1:L:513:ASN:OD1	2.53	0.42
1:Q:439:VAL:HG13	1:Q:440:SER:N	2.34	0.42
1:R:421:GLN:NE2	1:S:342:PRO:HB3	2.34	0.42
1:T:590:ILE:HD13	1:T:590:ILE:HA	1.92	0.42
1:a:235:ARG:HG3	1:a:353:LEU:HD22	2.02	0.42
1:a:439:VAL:HG13	1:a:440:SER:N	2.34	0.42
1:d:397:ARG:HG2	1:d:398:THR:N	2.32	0.42
1:e:247:TYR:OH	1:e:389:GLU:HG3	2.20	0.42
1:g:215:SER:HB2	1:g:308:ASN:H	1.85	0.42
1:m:513:ASN:OD1	1:m:513:ASN:N	2.53	0.42
1:q:421:GLN:NE2	1:r:342:PRO:HB3	2.34	0.42
1:r:215:SER:HB2	1:r:308:ASN:H	1.85	0.42
1:r:232:LYS:HG2	1:r:670:GLU:CB	2.49	0.42
1:s:215:SER:HB2	1:s:308:ASN:H	1.85	0.42
1:s:693:TYR:OH	1:s:700:ASP:OD2	2.29	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:342:PRO:HB3	1:v:421:GLN:NE2	2.34	0.42
1:t:513:ASN:N	1:t:513:ASN:OD1	2.53	0.42
1:v:513:ASN:OD1	1:v:513:ASN:N	2.53	0.42
1:y:235:ARG:HG3	1:y:353:LEU:HD22	2.02	0.42
1:y:397:ARG:HG2	1:y:398:THR:N	2.32	0.42
1:z:235:ARG:HG3	1:z:353:LEU:HD22	2.02	0.42
1:z:513:ASN:N	1:z:513:ASN:OD1	2.53	0.42
1:1:397:ARG:HG2	1:1:398:THR:N	2.32	0.42
1:3:235:ARG:HG3	1:3:353:LEU:HD22	2.02	0.42
1:5:215:SER:HB2	1:5:308:ASN:H	1.85	0.42
1:8:305:LYS:HB3	1:8:668:THR:CG2	2.49	0.42
1:8:439:VAL:HG13	1:8:440:SER:N	2.34	0.42
1:A:235:ARG:HG3	1:A:353:LEU:HD22	2.02	0.42
1:C:215:SER:HB2	1:C:308:ASN:H	1.85	0.42
1:C:247:TYR:OH	1:C:389:GLU:HG3	2.20	0.42
1:D:421:GLN:NE2	1:N:342:PRO:HB3	2.34	0.42
1:F:459:ASN:OD1	1:F:459:ASN:N	2.46	0.42
1:M:422:ASN:HA	1:M:557:PRO:HB3	2.02	0.42
1:N:441:THR:HG21	1:P:483:ARG:O	2.20	0.42
1:P:299:PRO:HD3	1:P:627:PHE:CE2	2.54	0.42
1:S:215:SER:HB2	1:S:308:ASN:H	1.85	0.42
1:T:513:ASN:OD1	1:T:513:ASN:N	2.53	0.42
1:U:215:SER:HB2	1:U:308:ASN:H	1.85	0.42
1:W:590:ILE:HD13	1:W:590:ILE:HA	1.92	0.42
1:Y:303:ARG:NH1	1:Y:670:GLU:OE2	2.43	0.42
1:a:513:ASN:N	1:a:513:ASN:OD1	2.53	0.42
1:e:439:VAL:HG13	1:e:440:SER:N	2.34	0.42
1:e:693:TYR:OH	1:e:700:ASP:OD2	2.29	0.42
1:i:441:THR:HG21	1:j:483:ARG:O	2.20	0.42
1:k:247:TYR:OH	1:k:389:GLU:HG3	2.20	0.42
1:k:397:ARG:HG2	1:k:398:THR:N	2.32	0.42
1:k:492:THR:OG1	1:k:503:GLN:NE2	2.52	0.42
1:m:590:ILE:HD13	1:m:590:ILE:HA	1.92	0.42
1:n:215:SER:HB2	1:n:308:ASN:H	1.85	0.42
1:n:397:ARG:HG2	1:n:398:THR:N	2.32	0.42
1:q:439:VAL:HG13	1:q:440:SER:N	2.34	0.42
1:t:439:VAL:HG13	1:t:440:SER:N	2.34	0.42
1:w:439:VAL:HG13	1:w:440:SER:N	2.34	0.42
1:1:277:ARG:HH21	1:1:604:GLN:HB3	1.84	0.42
1:1:439:VAL:HG13	1:1:440:SER:N	2.34	0.42
1:3:439:VAL:HG13	1:3:440:SER:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:513:ASN:N	1:3:513:ASN:OD1	2.53	0.42
1:4:215:SER:HB2	1:4:308:ASN:H	1.85	0.42
1:B:439:VAL:HG13	1:B:440:SER:N	2.34	0.42
1:E:305:LYS:HB3	1:E:668:THR:CG2	2.49	0.42
1:K:215:SER:HB2	1:K:308:ASN:H	1.85	0.42
1:Q:235:ARG:HG3	1:Q:353:LEU:HD22	2.02	0.42
1:R:247:TYR:OH	1:R:389:GLU:HG3	2.20	0.42
1:R:439:VAL:HG13	1:R:440:SER:N	2.34	0.42
1:S:513:ASN:OD1	1:S:513:ASN:N	2.53	0.42
1:T:439:VAL:HG13	1:T:440:SER:N	2.34	0.42
1:U:235:ARG:HG3	1:U:353:LEU:HD22	2.02	0.42
1:U:247:TYR:OH	1:U:389:GLU:HG3	2.20	0.42
1:W:421:GLN:NE2	1:Y:342:PRO:HB3	2.34	0.42
1:W:441:THR:HG21	1:Y:483:ARG:O	2.20	0.42
1:X:215:SER:HB2	1:X:308:ASN:H	1.85	0.42
1:X:422:ASN:HA	1:X:557:PRO:HB3	2.02	0.42
1:Y:235:ARG:HG3	1:Y:353:LEU:HD22	2.02	0.42
1:c:299:PRO:HD3	1:c:627:PHE:CE2	2.54	0.42
1:c:439:VAL:HG13	1:c:440:SER:N	2.34	0.42
1:d:215:SER:HB2	1:d:308:ASN:H	1.85	0.42
1:e:215:SER:HB2	1:e:308:ASN:H	1.85	0.42
1:e:299:PRO:HD3	1:e:627:PHE:CE2	2.54	0.42
1:f:639:LYS:HG2	1:f:640:ASN:N	2.34	0.42
1:g:422:ASN:HA	1:g:557:PRO:HB3	2.02	0.42
1:h:422:ASN:HA	1:h:557:PRO:HB3	2.02	0.42
1:j:299:PRO:HD3	1:j:627:PHE:CE2	2.54	0.42
1:m:439:VAL:HG13	1:m:440:SER:N	2.34	0.42
1:o:422:ASN:HA	1:o:557:PRO:HB3	2.02	0.42
1:o:441:THR:HG21	1:p:483:ARG:O	2.20	0.42
1:o:492:THR:OG1	1:o:503:GLN:NE2	2.52	0.42
1:p:292:ASN:HB3	1:p:688:GLN:OE1	2.18	0.42
1:p:391:PHE:N	1:p:391:PHE:CD1	2.88	0.42
1:q:247:TYR:OH	1:q:389:GLU:HG3	2.20	0.42
1:q:391:PHE:N	1:q:391:PHE:CD1	2.88	0.42
1:r:247:TYR:OH	1:r:389:GLU:HG3	2.20	0.42
1:r:513:ASN:N	1:r:513:ASN:OD1	2.53	0.42
1:v:235:ARG:HG3	1:v:353:LEU:HD22	2.02	0.42
1:v:277:ARG:HH21	1:v:604:GLN:HB3	1.84	0.42
1:w:305:LYS:HB3	1:w:668:THR:CG2	2.49	0.42
1:x:235:ARG:HG3	1:x:353:LEU:HD22	2.02	0.42
1:y:459:ASN:OD1	1:y:459:ASN:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:342:PRO:HB3	1:4:421:GLN:NE2	2.34	0.42
1:5:247:TYR:OH	1:5:389:GLU:HG3	2.20	0.42
1:6:391:PHE:N	1:6:391:PHE:CD1	2.88	0.42
1:6:421:GLN:NE2	1:7:342:PRO:HB3	2.34	0.42
1:A:421:GLN:NE2	1:G:342:PRO:HB3	2.34	0.42
1:B:235:ARG:HG3	1:B:353:LEU:HD22	2.02	0.42
1:C:422:ASN:HA	1:C:557:PRO:HB3	2.02	0.42
1:D:492:THR:OG1	1:D:503:GLN:NE2	2.52	0.42
1:F:422:ASN:HA	1:F:557:PRO:HB3	2.02	0.42
1:G:232:LYS:HG2	1:G:670:GLU:CB	2.49	0.42
1:G:235:ARG:HG3	1:G:353:LEU:HD22	2.02	0.42
1:G:439:VAL:HG13	1:G:440:SER:N	2.34	0.42
1:H:247:TYR:OH	1:H:389:GLU:HG3	2.20	0.42
1:H:391:PHE:N	1:H:391:PHE:CD1	2.88	0.42
1:H:397:ARG:HG2	1:H:398:THR:N	2.32	0.42
1:K:513:ASN:OD1	1:K:513:ASN:N	2.53	0.42
1:L:420:SER:N	1:L:722:ARG:O	2.51	0.42
1:M:600:ASP:OD2	1:M:717:THR:OG1	2.38	0.42
1:N:422:ASN:HA	1:N:557:PRO:HB3	2.02	0.42
1:O:600:ASP:OD2	1:O:717:THR:OG1	2.38	0.42
1:P:391:PHE:N	1:P:391:PHE:CD1	2.88	0.42
1:R:391:PHE:N	1:R:391:PHE:CD1	2.88	0.42
1:R:513:ASN:OD1	1:R:513:ASN:N	2.53	0.42
1:S:247:TYR:OH	1:S:389:GLU:HG3	2.20	0.42
1:S:391:PHE:CD1	1:S:391:PHE:N	2.88	0.42
1:S:422:ASN:HA	1:S:557:PRO:HB3	2.02	0.42
1:T:600:ASP:OD2	1:T:717:THR:OG1	2.38	0.42
1:U:507:GLN:HB2	1:U:525:ASN:OD1	2.20	0.42
1:V:391:PHE:N	1:V:391:PHE:CD1	2.88	0.42
1:V:422:ASN:HA	1:V:557:PRO:HB3	2.02	0.42
1:V:483:ARG:O	1:X:441:THR:HG21	2.20	0.42
1:W:391:PHE:N	1:W:391:PHE:CD1	2.88	0.42
1:X:214:ALA:H	1:Y:400:ASN:ND2	2.18	0.42
1:Z:235:ARG:HG3	1:Z:353:LEU:HD22	2.02	0.42
1:a:397:ARG:HG2	1:a:398:THR:N	2.32	0.42
1:b:507:GLN:HB2	1:b:525:ASN:OD1	2.20	0.42
1:b:639:LYS:HG2	1:b:640:ASN:N	2.34	0.42
1:c:215:SER:HB2	1:c:308:ASN:H	1.85	0.42
1:c:235:ARG:HG3	1:c:353:LEU:HD22	2.02	0.42
1:d:268:THR:OG1	1:d:366:TYR:O	2.37	0.42
1:e:235:ARG:HG3	1:e:353:LEU:HD22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:507:GLN:HB2	1:f:525:ASN:OD1	2.20	0.42
1:g:247:TYR:OH	1:g:389:GLU:HG3	2.20	0.42
1:i:247:TYR:OH	1:i:389:GLU:HG3	2.20	0.42
1:i:334:PHE:CE1	1:i:391:PHE:HD2	2.38	0.42
1:i:422:ASN:HA	1:i:557:PRO:HB3	2.02	0.42
1:j:391:PHE:N	1:j:391:PHE:CD1	2.88	0.42
1:l:600:ASP:OD2	1:l:717:THR:OG1	2.38	0.42
1:m:600:ASP:OD2	1:m:717:THR:OG1	2.38	0.42
1:n:268:THR:OG1	1:n:366:TYR:O	2.37	0.42
1:n:639:LYS:HG2	1:n:640:ASN:N	2.34	0.42
1:o:214:ALA:H	1:7:400:ASN:ND2	2.18	0.42
1:o:247:TYR:OH	1:o:389:GLU:HG3	2.20	0.42
1:p:422:ASN:HA	1:p:557:PRO:HB3	2.02	0.42
1:q:513:ASN:N	1:q:513:ASN:OD1	2.53	0.42
1:r:305:LYS:HB3	1:r:668:THR:CG2	2.49	0.42
1:r:422:ASN:HA	1:r:557:PRO:HB3	2.02	0.42
1:r:441:THR:HG21	1:s:483:ARG:O	2.20	0.42
1:s:235:ARG:HG3	1:s:353:LEU:HD22	2.02	0.42
1:s:247:TYR:OH	1:s:389:GLU:HG3	2.20	0.42
1:t:232:LYS:HG2	1:t:670:GLU:CB	2.49	0.42
1:t:235:ARG:HG3	1:t:353:LEU:HD22	2.02	0.42
1:x:391:PHE:N	1:x:391:PHE:CD1	2.88	0.42
1:y:422:ASN:HA	1:y:557:PRO:HB3	2.02	0.42
1:1:235:ARG:HG3	1:1:353:LEU:HD22	2.02	0.42
1:2:600:ASP:OD2	1:2:717:THR:OG1	2.38	0.42
1:4:600:ASP:OD2	1:4:717:THR:OG1	2.38	0.42
1:5:600:ASP:OD2	1:5:717:THR:OG1	2.38	0.42
1:7:235:ARG:HG3	1:7:353:LEU:HD22	2.02	0.42
1:8:235:ARG:HG3	1:8:353:LEU:HD22	2.02	0.42
1:A:277:ARG:HH21	1:A:604:GLN:HB3	1.84	0.41
1:A:422:ASN:HA	1:A:557:PRO:HB3	2.02	0.41
1:B:232:LYS:HG2	1:B:670:GLU:CB	2.49	0.41
1:B:334:PHE:CE1	1:B:391:PHE:HD2	2.38	0.41
1:B:441:THR:HG21	1:J:483:ARG:O	2.20	0.41
1:D:305:LYS:HB3	1:D:668:THR:CG2	2.49	0.41
1:D:334:PHE:CE1	1:D:391:PHE:HD2	2.38	0.41
1:D:397:ARG:HG2	1:D:398:THR:N	2.32	0.41
1:D:406:TYR:CE2	1:D:408:PHE:CD1	3.08	0.41
1:E:483:ARG:O	1:F:441:THR:HG21	2.20	0.41
1:F:247:TYR:OH	1:F:389:GLU:HG3	2.20	0.41
1:H:268:THR:OG1	1:H:366:TYR:O	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:600:ASP:OD2	1:H:717:THR:OG1	2.38	0.41
1:J:334:PHE:CE1	1:J:391:PHE:HD2	2.38	0.41
1:J:600:ASP:OD2	1:J:717:THR:OG1	2.38	0.41
1:K:260:ALA:HB1	1:K:502:TYR:CE1	2.55	0.41
1:K:305:LYS:HB3	1:K:668:THR:CG2	2.49	0.41
1:K:421:GLN:NE2	1:a:342:PRO:HB3	2.34	0.41
1:L:215:SER:HB2	1:L:308:ASN:H	1.85	0.41
1:L:232:LYS:HG2	1:L:670:GLU:CB	2.49	0.41
1:M:235:ARG:HG3	1:M:353:LEU:HD22	2.02	0.41
1:M:513:ASN:OD1	1:M:513:ASN:N	2.53	0.41
1:N:247:TYR:OH	1:N:389:GLU:HG3	2.20	0.41
1:N:639:LYS:HG2	1:N:640:ASN:N	2.34	0.41
1:O:397:ARG:HG2	1:O:398:THR:N	2.32	0.41
1:O:639:LYS:HG2	1:O:640:ASN:N	2.34	0.41
1:P:260:ALA:HB1	1:P:502:TYR:CE1	2.55	0.41
1:P:422:ASN:HA	1:P:557:PRO:HB3	2.02	0.41
1:Q:391:PHE:N	1:Q:391:PHE:CD1	2.88	0.41
1:R:406:TYR:CE2	1:R:408:PHE:CD1	3.08	0.41
1:R:693:TYR:OH	1:R:700:ASP:OD2	2.29	0.41
1:S:441:THR:HG21	1:U:483:ARG:O	2.20	0.41
1:T:356:PHE:HA	1:T:357:PRO:HD3	1.95	0.41
1:T:422:ASN:HA	1:T:557:PRO:HB3	2.02	0.41
1:U:513:ASN:OD1	1:U:513:ASN:N	2.53	0.41
1:V:397:ARG:HG2	1:V:398:THR:N	2.32	0.41
1:V:513:ASN:N	1:V:513:ASN:OD1	2.53	0.41
1:V:600:ASP:OD2	1:V:717:THR:OG1	2.38	0.41
1:W:260:ALA:HB1	1:W:502:TYR:CE1	2.55	0.41
1:W:332:GLN:O	1:W:638:ILE:HA	2.20	0.41
1:X:247:TYR:OH	1:X:389:GLU:HG3	2.20	0.41
1:X:260:ALA:HB1	1:X:502:TYR:CE1	2.55	0.41
1:Y:406:TYR:OH	1:Y:631:HIS:O	2.30	0.41
1:Y:492:THR:OG1	1:Y:503:GLN:NE2	2.52	0.41
1:a:507:GLN:HB2	1:a:525:ASN:OD1	2.20	0.41
1:c:492:THR:OG1	1:c:503:GLN:NE2	2.52	0.41
1:e:391:PHE:N	1:e:391:PHE:CD1	2.88	0.41
1:e:492:THR:OG1	1:e:503:GLN:NE2	2.52	0.41
1:h:260:ALA:HB1	1:h:502:TYR:CE1	2.55	0.41
1:h:406:TYR:CE2	1:h:408:PHE:CD1	3.08	0.41
1:h:513:ASN:OD1	1:h:513:ASN:N	2.53	0.41
1:h:600:ASP:OD2	1:h:717:THR:OG1	2.38	0.41
1:i:235:ARG:HG3	1:i:353:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:260:ALA:HB1	1:j:502:TYR:CE1	2.56	0.41
1:j:305:LYS:HB3	1:j:668:THR:CG2	2.49	0.41
1:j:422:ASN:HA	1:j:557:PRO:HB3	2.02	0.41
1:k:334:PHE:CE1	1:k:391:PHE:HD2	2.38	0.41
1:k:406:TYR:CE2	1:k:408:PHE:CD1	3.08	0.41
1:l:232:LYS:HG2	1:l:670:GLU:CB	2.49	0.41
1:l:391:PHE:N	1:l:391:PHE:CD1	2.88	0.41
1:l:397:ARG:HG2	1:l:398:THR:N	2.32	0.41
1:l:507:GLN:HB2	1:l:525:ASN:OD1	2.20	0.41
1:n:682:ARG:HD3	1:n:686:GLU:HG3	2.03	0.41
1:o:215:SER:HB2	1:o:308:ASN:H	1.85	0.41
1:o:260:ALA:HB1	1:o:502:TYR:CE1	2.55	0.41
1:p:235:ARG:HG3	1:p:353:LEU:HD22	2.02	0.41
1:p:513:ASN:OD1	1:p:513:ASN:N	2.53	0.41
1:p:600:ASP:OD2	1:p:717:THR:OG1	2.38	0.41
1:q:406:TYR:CE2	1:q:408:PHE:CD1	3.08	0.41
1:s:507:GLN:HB2	1:s:525:ASN:OD1	2.20	0.41
1:s:513:ASN:OD1	1:s:513:ASN:N	2.53	0.41
1:u:232:LYS:HG2	1:u:670:GLU:CB	2.49	0.41
1:v:247:TYR:OH	1:v:389:GLU:HG3	2.20	0.41
1:v:406:TYR:CE2	1:v:408:PHE:CD1	3.08	0.41
1:v:422:ASN:HA	1:v:557:PRO:HB3	2.02	0.41
1:w:483:ARG:O	1:y:441:THR:HG21	2.20	0.41
1:x:215:SER:HB2	1:x:308:ASN:H	1.85	0.41
1:x:268:THR:OG1	1:x:366:TYR:O	2.37	0.41
1:y:247:TYR:OH	1:y:389:GLU:HG3	2.20	0.41
1:z:268:THR:OG1	1:z:366:TYR:O	2.37	0.41
1:z:420:SER:N	1:z:722:ARG:O	2.51	0.41
1:1:232:LYS:HG2	1:1:670:GLU:CB	2.49	0.41
1:1:260:ALA:HB1	1:1:502:TYR:CE1	2.55	0.41
1:1:334:PHE:CE1	1:1:391:PHE:HD2	2.38	0.41
1:1:441:THR:HG21	1:2:483:ARG:O	2.20	0.41
1:2:334:PHE:CE1	1:2:391:PHE:HD2	2.38	0.41
1:3:397:ARG:HG2	1:3:398:THR:N	2.32	0.41
1:4:277:ARG:HH21	1:4:604:GLN:HB3	1.84	0.41
1:4:305:LYS:HB3	1:4:668:THR:CG2	2.49	0.41
1:6:332:GLN:O	1:6:638:ILE:HA	2.20	0.41
1:7:406:TYR:OH	1:7:631:HIS:O	2.30	0.41
1:7:422:ASN:HA	1:7:557:PRO:HB3	2.02	0.41
1:7:492:THR:OG1	1:7:503:GLN:NE2	2.52	0.41
1:A:247:TYR:OH	1:A:389:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:TYR:CE2	1:A:408:PHE:CD1	3.08	0.41
1:A:639:LYS:HG2	1:A:640:ASN:N	2.34	0.41
1:B:260:ALA:HB1	1:B:502:TYR:CE1	2.56	0.41
1:D:507:GLN:HB2	1:D:525:ASN:OD1	2.20	0.41
1:D:600:ASP:OD2	1:D:717:THR:OG1	2.38	0.41
1:E:600:ASP:OD2	1:E:717:THR:OG1	2.38	0.41
1:F:215:SER:HB2	1:F:308:ASN:H	1.85	0.41
1:G:305:LYS:HB3	1:G:668:THR:CG2	2.49	0.41
1:H:232:LYS:HG2	1:H:670:GLU:CB	2.49	0.41
1:H:639:LYS:HG2	1:H:640:ASN:N	2.34	0.41
1:I:232:LYS:HG2	1:I:670:GLU:CB	2.49	0.41
1:I:334:PHE:CE1	1:I:391:PHE:HD2	2.38	0.41
1:K:600:ASP:OD2	1:K:717:THR:OG1	2.38	0.41
1:L:260:ALA:HB1	1:L:502:TYR:CE1	2.55	0.41
1:L:507:GLN:HB2	1:L:525:ASN:OD1	2.20	0.41
1:M:215:SER:HB2	1:M:308:ASN:H	1.85	0.41
1:M:260:ALA:HB1	1:M:502:TYR:CE1	2.56	0.41
1:M:406:TYR:CE2	1:M:408:PHE:CD1	3.08	0.41
1:N:235:ARG:HG3	1:N:353:LEU:HD22	2.02	0.41
1:N:334:PHE:CE1	1:N:391:PHE:HD2	2.38	0.41
1:N:406:TYR:CE2	1:N:408:PHE:CD1	3.08	0.41
1:O:247:TYR:OH	1:O:389:GLU:HG3	2.20	0.41
1:O:406:TYR:CE2	1:O:408:PHE:CD1	3.08	0.41
1:O:439:VAL:HG13	1:O:440:SER:N	2.34	0.41
1:O:507:GLN:HB2	1:O:525:ASN:OD1	2.20	0.41
1:P:305:LYS:HB3	1:P:668:THR:CG2	2.49	0.41
1:P:332:GLN:O	1:P:638:ILE:HA	2.21	0.41
1:P:406:TYR:CE2	1:P:408:PHE:CD1	3.08	0.41
1:Q:215:SER:HB2	1:Q:308:ASN:H	1.85	0.41
1:Q:268:THR:OG1	1:Q:366:TYR:O	2.37	0.41
1:Q:507:GLN:HB2	1:Q:525:ASN:OD1	2.20	0.41
1:S:305:LYS:HB3	1:S:668:THR:CG2	2.49	0.41
1:S:406:TYR:CE2	1:S:408:PHE:CD1	3.08	0.41
1:S:704:ASP:OD1	1:S:705:SER:N	2.50	0.41
1:T:334:PHE:CE1	1:T:391:PHE:HD2	2.38	0.41
1:U:406:TYR:CE2	1:U:408:PHE:CD1	3.08	0.41
1:V:235:ARG:HG3	1:V:353:LEU:HD22	2.02	0.41
1:V:292:ASN:HB3	1:V:688:GLN:OE1	2.19	0.41
1:V:441:THR:HG21	1:e:483:ARG:O	2.20	0.41
1:V:507:GLN:HB2	1:V:525:ASN:OD1	2.20	0.41
1:X:507:GLN:HB2	1:X:525:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:639:LYS:HG2	1:X:640:ASN:N	2.34	0.41
1:Y:507:GLN:HB2	1:Y:525:ASN:OD1	2.20	0.41
1:a:441:THR:HG21	1:8:483:ARG:O	2.20	0.41
1:b:391:PHE:N	1:b:391:PHE:CD1	2.88	0.41
1:b:420:SER:N	1:b:722:ARG:O	2.51	0.41
1:c:260:ALA:HB1	1:c:502:TYR:CE1	2.55	0.41
1:c:391:PHE:N	1:c:391:PHE:CD1	2.88	0.41
1:c:513:ASN:OD1	1:c:513:ASN:N	2.53	0.41
1:d:332:GLN:O	1:d:638:ILE:HA	2.20	0.41
1:d:391:PHE:N	1:d:391:PHE:CD1	2.88	0.41
1:d:406:TYR:CE2	1:d:408:PHE:CD1	3.08	0.41
1:d:639:LYS:HG2	1:d:640:ASN:N	2.34	0.41
1:d:682:ARG:HD3	1:d:686:GLU:HG3	2.03	0.41
1:d:704:ASP:OD1	1:d:705:SER:N	2.50	0.41
1:e:260:ALA:HB1	1:e:502:TYR:CE1	2.55	0.41
1:g:260:ALA:HB1	1:g:502:TYR:CE1	2.55	0.41
1:h:215:SER:HB2	1:h:308:ASN:H	1.85	0.41
1:h:235:ARG:HG3	1:h:353:LEU:HD22	2.02	0.41
1:i:639:LYS:HG2	1:i:640:ASN:N	2.34	0.41
1:j:332:GLN:O	1:j:638:ILE:HA	2.20	0.41
1:j:406:TYR:CE2	1:j:408:PHE:CD1	3.08	0.41
1:k:305:LYS:HB3	1:k:668:THR:CG2	2.49	0.41
1:l:406:TYR:CE2	1:l:408:PHE:CD1	3.08	0.41
1:l:639:LYS:HG2	1:l:640:ASN:N	2.34	0.41
1:m:334:PHE:CE1	1:m:391:PHE:HD2	2.38	0.41
1:m:422:ASN:HA	1:m:557:PRO:HB3	2.02	0.41
1:n:332:GLN:O	1:n:638:ILE:HA	2.20	0.41
1:p:397:ARG:HG2	1:p:398:THR:N	2.32	0.41
1:p:507:GLN:HB2	1:p:525:ASN:OD1	2.20	0.41
1:r:406:TYR:CE2	1:r:408:PHE:CD1	3.08	0.41
1:s:406:TYR:CE2	1:s:408:PHE:CD1	3.08	0.41
1:t:305:LYS:HB3	1:t:668:THR:CG2	2.49	0.41
1:u:334:PHE:CE1	1:u:391:PHE:HD2	2.38	0.41
1:u:422:ASN:HA	1:u:557:PRO:HB3	2.02	0.41
1:v:639:LYS:HG2	1:v:640:ASN:N	2.34	0.41
1:w:600:ASP:OD2	1:w:717:THR:OG1	2.38	0.41
1:z:215:SER:HB2	1:z:308:ASN:H	1.85	0.41
1:z:260:ALA:HB1	1:z:502:TYR:CE1	2.55	0.41
1:z:305:LYS:HB3	1:z:668:THR:CG2	2.49	0.41
1:z:507:GLN:HB2	1:z:525:ASN:OD1	2.20	0.41
1:2:639:LYS:HG2	1:2:640:ASN:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:507:GLN:HB2	1:3:525:ASN:OD1	2.20	0.41
1:4:260:ALA:HB1	1:4:502:TYR:CE1	2.56	0.41
1:4:391:PHE:N	1:4:391:PHE:CD1	2.88	0.41
1:5:232:LYS:HG2	1:5:670:GLU:CB	2.49	0.41
1:5:268:THR:OG1	1:5:366:TYR:O	2.37	0.41
1:5:397:ARG:HG2	1:5:398:THR:N	2.32	0.41
1:6:260:ALA:HB1	1:6:502:TYR:CE1	2.56	0.41
1:7:260:ALA:HB1	1:7:502:TYR:CE1	2.55	0.41
1:7:507:GLN:HB2	1:7:525:ASN:OD1	2.20	0.41
1:C:235:ARG:HG3	1:C:353:LEU:HD22	2.02	0.41
1:C:260:ALA:HB1	1:C:502:TYR:CE1	2.56	0.41
1:C:507:GLN:HB2	1:C:525:ASN:OD1	2.20	0.41
1:C:600:ASP:OD2	1:C:717:THR:OG1	2.38	0.41
1:E:391:PHE:N	1:E:391:PHE:CD1	2.88	0.41
1:E:441:THR:HG21	1:Q:483:ARG:O	2.20	0.41
1:G:247:TYR:OH	1:G:389:GLU:HG3	2.20	0.41
1:H:406:TYR:CE2	1:H:408:PHE:CD1	3.08	0.41
1:H:590:ILE:HD13	1:H:590:ILE:HA	1.92	0.41
1:J:422:ASN:HA	1:J:557:PRO:HB3	2.02	0.41
1:K:277:ARG:HH21	1:K:604:GLN:HB3	1.84	0.41
1:L:268:THR:OG1	1:L:366:TYR:O	2.37	0.41
1:L:305:LYS:HB3	1:L:668:THR:CG2	2.49	0.41
1:L:600:ASP:OD2	1:L:717:THR:OG1	2.38	0.41
1:L:682:ARG:HD3	1:L:686:GLU:HG3	2.03	0.41
1:M:342:PRO:HB3	1:b:421:GLN:NE2	2.34	0.41
1:O:232:LYS:HG2	1:O:670:GLU:CB	2.49	0.41
1:O:268:THR:OG1	1:O:366:TYR:O	2.37	0.41
1:O:391:PHE:N	1:O:391:PHE:CD1	2.88	0.41
1:Q:600:ASP:OD2	1:Q:717:THR:OG1	2.38	0.41
1:T:247:TYR:OH	1:T:389:GLU:HG3	2.20	0.41
1:T:682:ARG:HD3	1:T:686:GLU:HG3	2.02	0.41
1:V:215:SER:HB2	1:V:308:ASN:H	1.85	0.41
1:X:232:LYS:HG2	1:X:670:GLU:CB	2.49	0.41
1:Y:260:ALA:HB1	1:Y:502:TYR:CE1	2.55	0.41
1:Y:334:PHE:CE1	1:Y:391:PHE:HD2	2.39	0.41
1:Y:422:ASN:HA	1:Y:557:PRO:HB3	2.02	0.41
1:b:334:PHE:CE1	1:b:391:PHE:HD2	2.38	0.41
1:c:377:GLU:H	1:c:377:GLU:HG2	1.73	0.41
1:c:483:ARG:O	1:p:441:THR:HG21	2.20	0.41
1:d:260:ALA:HB1	1:d:502:TYR:CE1	2.55	0.41
1:e:334:PHE:CE1	1:e:391:PHE:HD2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:513:ASN:OD1	1:e:513:ASN:N	2.53	0.41
1:e:600:ASP:OD2	1:e:717:THR:OG1	2.38	0.41
1:f:334:PHE:CE1	1:f:391:PHE:HD2	2.38	0.41
1:f:391:PHE:N	1:f:391:PHE:CD1	2.88	0.41
1:g:235:ARG:HG3	1:g:353:LEU:HD22	2.02	0.41
1:g:600:ASP:OD2	1:g:717:THR:OG1	2.38	0.41
1:i:406:TYR:CE2	1:i:408:PHE:CD1	3.08	0.41
1:i:513:ASN:N	1:i:513:ASN:OD1	2.53	0.41
1:j:235:ARG:HG3	1:j:353:LEU:HD22	2.02	0.41
1:k:507:GLN:HB2	1:k:525:ASN:OD1	2.20	0.41
1:k:600:ASP:OD2	1:k:717:THR:OG1	2.38	0.41
1:l:247:TYR:OH	1:l:389:GLU:HG3	2.20	0.41
1:l:260:ALA:HB1	1:l:502:TYR:CE1	2.55	0.41
1:l:439:VAL:HG13	1:l:440:SER:N	2.34	0.41
1:m:247:TYR:OH	1:m:389:GLU:HG3	2.20	0.41
1:n:406:TYR:CE2	1:n:408:PHE:CD1	3.08	0.41
1:o:507:GLN:HB2	1:o:525:ASN:OD1	2.20	0.41
1:p:260:ALA:HB1	1:p:502:TYR:CE1	2.55	0.41
1:r:507:GLN:HB2	1:r:525:ASN:OD1	2.20	0.41
1:s:260:ALA:HB1	1:s:502:TYR:CE1	2.55	0.41
1:t:247:TYR:OH	1:t:389:GLU:HG3	2.20	0.41
1:t:397:ARG:HG2	1:t:398:THR:N	2.32	0.41
1:v:400:ASN:ND2	1:l:214:ALA:H	2.19	0.41
1:v:682:ARG:HD3	1:v:686:GLU:HG3	2.03	0.41
1:w:391:PHE:N	1:w:391:PHE:CD1	2.88	0.41
1:w:441:THR:HG21	1:x:483:ARG:O	2.20	0.41
1:x:507:GLN:HB2	1:x:525:ASN:OD1	2.20	0.41
1:x:600:ASP:OD2	1:x:717:THR:OG1	2.38	0.41
1:y:215:SER:HB2	1:y:308:ASN:H	1.85	0.41
1:z:232:LYS:HG2	1:z:670:GLU:CB	2.49	0.41
1:z:600:ASP:OD2	1:z:717:THR:OG1	2.38	0.41
1:z:682:ARG:HD3	1:z:686:GLU:HG3	2.03	0.41
1:2:422:ASN:HA	1:2:557:PRO:HB3	2.02	0.41
1:2:682:ARG:HD3	1:2:686:GLU:HG3	2.03	0.41
1:3:305:LYS:HB3	1:3:668:THR:CG2	2.49	0.41
1:5:406:TYR:CE2	1:5:408:PHE:CD1	3.08	0.41
1:5:528:ILE:HD13	1:7:449:PHE:CE1	2.56	0.41
1:5:639:LYS:HG2	1:5:640:ASN:N	2.34	0.41
1:5:682:ARG:HD3	1:5:686:GLU:HG3	2.03	0.41
1:6:590:ILE:HD13	1:6:590:ILE:HA	1.92	0.41
1:A:332:GLN:O	1:A:638:ILE:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:342:PRO:HB3	1:I:421:GLN:NE2	2.34	0.41
1:A:682:ARG:HD3	1:A:686:GLU:HG3	2.03	0.41
1:B:507:GLN:HB2	1:B:525:ASN:OD1	2.20	0.41
1:B:600:ASP:OD2	1:B:717:THR:OG1	2.38	0.41
1:D:391:PHE:N	1:D:391:PHE:CD1	2.88	0.41
1:E:507:GLN:HB2	1:E:525:ASN:OD1	2.20	0.41
1:G:260:ALA:HB1	1:G:502:TYR:CE1	2.55	0.41
1:G:406:TYR:CE2	1:G:408:PHE:CD1	3.08	0.41
1:G:682:ARG:HD3	1:G:686:GLU:HG3	2.02	0.41
1:H:682:ARG:HD3	1:H:686:GLU:HG3	2.02	0.41
1:I:260:ALA:HB1	1:I:502:TYR:CE1	2.55	0.41
1:I:422:ASN:HA	1:I:557:PRO:HB3	2.02	0.41
1:I:507:GLN:HB2	1:I:525:ASN:OD1	2.20	0.41
1:J:639:LYS:HG2	1:J:640:ASN:N	2.34	0.41
1:J:682:ARG:HD3	1:J:686:GLU:HG3	2.03	0.41
1:K:391:PHE:CD1	1:K:391:PHE:N	2.88	0.41
1:L:406:TYR:CE2	1:L:408:PHE:CD1	3.08	0.41
1:M:268:THR:OG1	1:M:366:TYR:O	2.37	0.41
1:M:507:GLN:HB2	1:M:525:ASN:OD1	2.20	0.41
1:N:513:ASN:N	1:N:513:ASN:OD1	2.53	0.41
1:N:682:ARG:HD3	1:N:686:GLU:HG3	2.02	0.41
1:O:260:ALA:HB1	1:O:502:TYR:CE1	2.56	0.41
1:R:332:GLN:O	1:R:638:ILE:HA	2.20	0.41
1:R:682:ARG:HD3	1:R:686:GLU:HG3	2.03	0.41
1:S:260:ALA:HB1	1:S:502:TYR:CE1	2.56	0.41
1:S:332:GLN:O	1:S:638:ILE:HA	2.20	0.41
1:S:420:SER:N	1:S:722:ARG:O	2.51	0.41
1:S:507:GLN:HB2	1:S:525:ASN:OD1	2.20	0.41
1:T:305:LYS:HB3	1:T:668:THR:CG2	2.49	0.41
1:T:397:ARG:HG2	1:T:398:THR:N	2.32	0.41
1:U:260:ALA:HB1	1:U:502:TYR:CE1	2.55	0.41
1:U:600:ASP:OD2	1:U:717:THR:OG1	2.38	0.41
1:V:247:TYR:OH	1:V:389:GLU:HG3	2.20	0.41
1:V:260:ALA:HB1	1:V:502:TYR:CE1	2.56	0.41
1:V:332:GLN:O	1:V:638:ILE:HA	2.21	0.41
1:W:600:ASP:OD2	1:W:717:THR:OG1	2.38	0.41
1:X:439:VAL:HG13	1:X:440:SER:N	2.34	0.41
1:X:513:ASN:OD1	1:X:513:ASN:N	2.53	0.41
1:Y:600:ASP:OD2	1:Y:717:THR:OG1	2.38	0.41
1:Z:342:PRO:HB3	1:3:421:GLN:NE2	2.34	0.41
1:Z:600:ASP:OD2	1:Z:717:THR:OG1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:305:LYS:HB3	1:a:668:THR:CG2	2.49	0.41
1:a:421:GLN:NE2	1:8:342:PRO:HB3	2.34	0.41
1:b:439:VAL:HG13	1:b:440:SER:N	2.34	0.41
1:b:682:ARG:HD3	1:b:686:GLU:HG3	2.03	0.41
1:c:334:PHE:CE1	1:c:391:PHE:HD2	2.38	0.41
1:c:406:TYR:CE2	1:c:408:PHE:CD1	3.08	0.41
1:c:600:ASP:OD2	1:c:717:THR:OG1	2.38	0.41
1:d:441:THR:HG21	1:l:483:ARG:O	2.20	0.41
1:d:507:GLN:HB2	1:d:525:ASN:OD1	2.20	0.41
1:f:421:GLN:NE2	1:h:342:PRO:HB3	2.34	0.41
1:f:633:PRO:HA	1:f:634:PRO:HD3	1.97	0.41
1:g:507:GLN:HB2	1:g:525:ASN:OD1	2.20	0.41
1:i:342:PRO:HB3	1:k:421:GLN:NE2	2.34	0.41
1:k:391:PHE:N	1:k:391:PHE:CD1	2.88	0.41
1:l:268:THR:OG1	1:l:366:TYR:O	2.37	0.41
1:l:332:GLN:O	1:l:638:ILE:HA	2.21	0.41
1:m:215:SER:HB2	1:m:308:ASN:H	1.85	0.41
1:m:305:LYS:HB3	1:m:668:THR:CG2	2.49	0.41
1:m:682:ARG:HD3	1:m:686:GLU:HG3	2.02	0.41
1:n:260:ALA:HB1	1:n:502:TYR:CE1	2.55	0.41
1:n:314:VAL:HG13	1:n:660:THR:HG23	2.03	0.41
1:n:334:PHE:CE1	1:n:391:PHE:HD2	2.38	0.41
1:n:507:GLN:HB2	1:n:525:ASN:OD1	2.20	0.41
1:o:513:ASN:OD1	1:o:513:ASN:N	2.53	0.41
1:o:639:LYS:HG2	1:o:640:ASN:N	2.34	0.41
1:p:247:TYR:OH	1:p:389:GLU:HG3	2.20	0.41
1:q:332:GLN:O	1:q:638:ILE:HA	2.21	0.41
1:q:693:TYR:OH	1:q:700:ASP:OD2	2.29	0.41
1:r:260:ALA:HB1	1:r:502:TYR:CE1	2.56	0.41
1:t:406:TYR:CE2	1:t:408:PHE:CD1	3.08	0.41
1:u:314:VAL:HG13	1:u:660:THR:HG23	2.03	0.41
1:u:421:GLN:NE2	1:v:342:PRO:HB3	2.34	0.41
1:u:507:GLN:HB2	1:u:525:ASN:OD1	2.20	0.41
1:x:332:GLN:O	1:x:638:ILE:HA	2.21	0.41
1:z:406:TYR:CE2	1:z:408:PHE:CD1	3.08	0.41
1:1:391:PHE:N	1:1:391:PHE:CD1	2.88	0.41
1:1:507:GLN:HB2	1:1:525:ASN:OD1	2.20	0.41
1:1:600:ASP:OD2	1:1:717:THR:OG1	2.38	0.41
1:2:268:THR:OG1	1:2:366:TYR:O	2.37	0.41
1:3:332:GLN:O	1:3:638:ILE:HA	2.20	0.41
1:5:400:ASN:ND2	1:8:214:ALA:H	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:215:SER:HB2	1:6:308:ASN:H	1.85	0.41
1:6:600:ASP:OD2	1:6:717:THR:OG1	2.38	0.41
1:7:334:PHE:CE1	1:7:391:PHE:HD2	2.39	0.41
1:A:260:ALA:HB1	1:A:502:TYR:CE1	2.55	0.41
1:A:334:PHE:CE1	1:A:391:PHE:HD2	2.38	0.41
1:B:391:PHE:N	1:B:391:PHE:CD1	2.88	0.41
1:B:639:LYS:HG2	1:B:640:ASN:N	2.34	0.41
1:C:400:ASN:ND2	1:D:214:ALA:H	2.19	0.41
1:E:682:ARG:HD3	1:E:686:GLU:HG3	2.03	0.41
1:G:397:ARG:HG2	1:G:398:THR:N	2.32	0.41
1:G:459:ASN:OD1	1:G:459:ASN:N	2.46	0.41
1:H:260:ALA:HB1	1:H:502:TYR:CE1	2.56	0.41
1:I:235:ARG:HG3	1:I:353:LEU:HD22	2.02	0.41
1:I:314:VAL:HG13	1:I:660:THR:HG23	2.03	0.41
1:M:214:ALA:H	1:N:400:ASN:ND2	2.18	0.41
1:M:483:ARG:O	1:b:441:THR:HG21	2.21	0.41
1:O:235:ARG:HG3	1:O:353:LEU:HD22	2.02	0.41
1:O:314:VAL:HG13	1:O:660:THR:HG23	2.03	0.41
1:O:332:GLN:O	1:O:638:ILE:HA	2.20	0.41
1:O:420:SER:N	1:O:722:ARG:O	2.51	0.41
1:P:235:ARG:HG3	1:P:353:LEU:HD22	2.02	0.41
1:Q:260:ALA:HB1	1:Q:502:TYR:CE1	2.55	0.41
1:Q:332:GLN:O	1:Q:638:ILE:HA	2.21	0.41
1:R:334:PHE:CE1	1:R:391:PHE:HD2	2.38	0.41
1:T:215:SER:HB2	1:T:308:ASN:H	1.85	0.41
1:T:406:TYR:CE2	1:T:408:PHE:CD1	3.08	0.41
1:V:400:ASN:ND2	1:W:214:ALA:H	2.19	0.41
1:W:215:SER:HB2	1:W:308:ASN:H	1.85	0.41
1:W:406:TYR:CE2	1:W:408:PHE:CD1	3.08	0.41
1:W:422:ASN:HA	1:W:557:PRO:HB3	2.02	0.41
1:X:314:VAL:HG13	1:X:660:THR:HG23	2.02	0.41
1:a:260:ALA:HB1	1:a:502:TYR:CE1	2.55	0.41
1:a:332:GLN:O	1:a:638:ILE:HA	2.20	0.41
1:b:332:GLN:O	1:b:638:ILE:HA	2.20	0.41
1:c:507:GLN:HB2	1:c:525:ASN:OD1	2.20	0.41
1:c:682:ARG:HD3	1:c:686:GLU:HG3	2.03	0.41
1:d:314:VAL:HG13	1:d:660:THR:HG23	2.03	0.41
1:d:334:PHE:CE1	1:d:391:PHE:HD2	2.38	0.41
1:e:406:TYR:CE2	1:e:408:PHE:CD1	3.08	0.41
1:e:507:GLN:HB2	1:e:525:ASN:OD1	2.20	0.41
1:f:420:SER:N	1:f:722:ARG:O	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:439:VAL:HG13	1:f:440:SER:N	2.34	0.41
1:f:441:THR:HG21	1:h:483:ARG:O	2.20	0.41
1:f:682:ARG:HD3	1:f:686:GLU:HG3	2.03	0.41
1:h:507:GLN:HB2	1:h:525:ASN:OD1	2.20	0.41
1:i:682:ARG:HD3	1:i:686:GLU:HG3	2.03	0.41
1:k:215:SER:HB2	1:k:308:ASN:H	1.85	0.41
1:l:314:VAL:HG13	1:l:660:THR:HG23	2.03	0.41
1:l:420:SER:N	1:l:722:ARG:O	2.51	0.41
1:m:235:ARG:HG3	1:m:353:LEU:HD22	2.02	0.41
1:m:397:ARG:HG2	1:m:398:THR:N	2.32	0.41
1:n:420:SER:N	1:n:722:ARG:O	2.51	0.41
1:n:513:ASN:OD1	1:n:513:ASN:N	2.53	0.41
1:n:704:ASP:OD1	1:n:705:SER:N	2.50	0.41
1:p:215:SER:HB2	1:p:308:ASN:H	1.85	0.41
1:p:332:GLN:O	1:p:638:ILE:HA	2.21	0.41
1:q:682:ARG:HD3	1:q:686:GLU:HG3	2.03	0.41
1:r:332:GLN:O	1:r:638:ILE:HA	2.21	0.41
1:r:704:ASP:OD1	1:r:705:SER:N	2.50	0.41
1:s:600:ASP:OD2	1:s:717:THR:OG1	2.38	0.41
1:t:260:ALA:HB1	1:t:502:TYR:CE1	2.55	0.41
1:t:268:THR:OG1	1:t:366:TYR:O	2.37	0.41
1:t:682:ARG:HD3	1:t:686:GLU:HG3	2.03	0.41
1:u:260:ALA:HB1	1:u:502:TYR:CE1	2.55	0.41
1:u:441:THR:HG21	1:v:483:ARG:O	2.21	0.41
1:v:260:ALA:HB1	1:v:502:TYR:CE1	2.55	0.41
1:v:332:GLN:O	1:v:638:ILE:HA	2.21	0.41
1:v:334:PHE:CE1	1:v:391:PHE:HD2	2.38	0.41
1:w:507:GLN:HB2	1:w:525:ASN:OD1	2.20	0.41
1:w:682:ARG:HD3	1:w:686:GLU:HG3	2.03	0.41
1:1:639:LYS:HG2	1:1:640:ASN:N	2.34	0.41
1:2:513:ASN:OD1	1:2:513:ASN:N	2.53	0.41
1:4:513:ASN:OD1	1:4:513:ASN:N	2.53	0.41
1:5:590:ILE:HD13	1:5:590:ILE:HA	1.92	0.41
1:6:406:TYR:CE2	1:6:408:PHE:CD1	3.08	0.41
1:6:441:THR:HG21	1:7:483:ARG:O	2.21	0.41
1:7:600:ASP:OD2	1:7:717:THR:OG1	2.38	0.41
1:8:600:ASP:OD2	1:8:717:THR:OG1	2.38	0.41
1:C:441:THR:HG21	1:b:483:ARG:O	2.20	0.41
1:G:268:THR:OG1	1:G:366:TYR:O	2.37	0.41
1:G:334:PHE:CE1	1:G:391:PHE:HD2	2.38	0.41
1:H:235:ARG:HG3	1:H:353:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:507:GLN:HB2	1:H:525:ASN:OD1	2.20	0.41
1:H:513:ASN:N	1:H:513:ASN:OD1	2.53	0.41
1:J:268:THR:OG1	1:J:366:TYR:O	2.37	0.41
1:J:332:GLN:O	1:J:638:ILE:HA	2.20	0.41
1:J:507:GLN:HB2	1:J:525:ASN:OD1	2.20	0.41
1:J:513:ASN:OD1	1:J:513:ASN:N	2.53	0.41
1:K:334:PHE:CE1	1:K:391:PHE:HD2	2.38	0.41
1:L:314:VAL:HG13	1:L:660:THR:HG23	2.03	0.41
1:N:268:THR:OG1	1:N:366:TYR:O	2.37	0.41
1:O:483:ARG:O	1:n:441:THR:HG21	2.20	0.41
1:P:334:PHE:CE1	1:P:391:PHE:HD2	2.38	0.41
1:Q:247:TYR:OH	1:Q:389:GLU:HG3	2.20	0.41
1:R:342:PRO:HB3	1:U:421:GLN:NE2	2.34	0.41
1:T:235:ARG:HG3	1:T:353:LEU:HD22	2.02	0.41
1:V:314:VAL:HG13	1:V:660:THR:HG23	2.03	0.41
1:Z:314:VAL:HG13	1:Z:660:THR:HG23	2.03	0.41
1:Z:483:ARG:O	1:3:441:THR:HG21	2.20	0.41
1:Z:590:ILE:HD13	1:Z:590:ILE:HA	1.92	0.41
1:b:633:PRO:HA	1:b:634:PRO:HD3	1.97	0.41
1:d:247:TYR:OH	1:d:389:GLU:HG3	2.20	0.41
1:d:420:SER:N	1:d:722:ARG:O	2.51	0.41
1:d:513:ASN:N	1:d:513:ASN:OD1	2.53	0.41
1:e:377:GLU:H	1:e:377:GLU:HG2	1.73	0.41
1:e:682:ARG:HD3	1:e:686:GLU:HG3	2.03	0.41
1:f:332:GLN:O	1:f:638:ILE:HA	2.20	0.41
1:f:483:ARG:O	1:g:441:THR:HG21	2.20	0.41
1:g:400:ASN:ND2	1:k:214:ALA:H	2.19	0.41
1:g:476:ASN:OD1	1:g:520:THR:OG1	2.26	0.41
1:i:268:THR:OG1	1:i:366:TYR:O	2.37	0.41
1:l:235:ARG:HG3	1:l:353:LEU:HD22	2.02	0.41
1:m:356:PHE:HA	1:m:357:PRO:HD3	1.95	0.41
1:m:406:TYR:CE2	1:m:408:PHE:CD1	3.08	0.41
1:p:314:VAL:HG13	1:p:660:THR:HG23	2.03	0.41
1:q:334:PHE:CE1	1:q:391:PHE:HD2	2.38	0.41
1:r:235:ARG:HG3	1:r:353:LEU:HD22	2.02	0.41
1:r:314:VAL:HG13	1:r:660:THR:HG23	2.02	0.41
1:r:420:SER:N	1:r:722:ARG:O	2.51	0.41
1:t:334:PHE:CE1	1:t:391:PHE:HD2	2.38	0.41
1:u:268:THR:OG1	1:u:366:TYR:O	2.37	0.41
1:w:332:GLN:O	1:w:638:ILE:HA	2.21	0.41
1:x:260:ALA:HB1	1:x:502:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:314:VAL:HG13	1:x:660:THR:HG23	2.02	0.41
1:y:406:TYR:OH	1:y:631:HIS:O	2.30	0.41
1:z:314:VAL:HG13	1:z:660:THR:HG23	2.03	0.41
1:2:332:GLN:O	1:2:638:ILE:HA	2.20	0.41
1:2:391:PHE:N	1:2:391:PHE:CD1	2.88	0.41
1:3:214:ALA:H	1:8:400:ASN:ND2	2.19	0.41
1:3:260:ALA:HB1	1:3:502:TYR:CE1	2.55	0.41
1:3:277:ARG:HH21	1:3:604:GLN:HB3	1.84	0.41
1:5:260:ALA:HB1	1:5:502:TYR:CE1	2.56	0.41
1:5:507:GLN:HB2	1:5:525:ASN:OD1	2.20	0.41
1:5:513:ASN:N	1:5:513:ASN:OD1	2.53	0.41
1:6:422:ASN:HA	1:6:557:PRO:HB3	2.02	0.41
1:C:314:VAL:HG13	1:C:660:THR:HG23	2.03	0.41
1:C:483:ARG:O	1:M:441:THR:HG21	2.20	0.41
1:D:215:SER:HB2	1:D:308:ASN:H	1.85	0.41
1:E:332:GLN:O	1:E:638:ILE:HA	2.21	0.41
1:F:334:PHE:CE1	1:F:391:PHE:HD2	2.38	0.41
1:G:314:VAL:HG13	1:G:660:THR:HG23	2.03	0.41
1:H:332:GLN:O	1:H:638:ILE:HA	2.20	0.41
1:H:707:GLY:HA2	1:I:247:TYR:O	2.21	0.41
1:J:472:THR:HG22	1:J:493:ASN:HD21	1.86	0.41
1:N:260:ALA:HB1	1:N:502:TYR:CE1	2.56	0.41
1:N:507:GLN:HB2	1:N:525:ASN:OD1	2.20	0.41
1:O:422:ASN:HA	1:O:557:PRO:HB3	2.02	0.41
1:P:314:VAL:HG13	1:P:660:THR:HG23	2.02	0.41
1:P:682:ARG:HD3	1:P:686:GLU:HG3	2.03	0.41
1:Q:475:TRP:HH2	1:Q:486:VAL:HG11	1.86	0.41
1:R:377:GLU:H	1:R:377:GLU:HG2	1.73	0.41
1:R:475:TRP:HH2	1:R:486:VAL:HG11	1.86	0.41
1:R:483:ARG:O	1:U:441:THR:HG21	2.21	0.41
1:S:314:VAL:HG13	1:S:660:THR:HG23	2.03	0.41
1:S:334:PHE:CE1	1:S:391:PHE:HD2	2.38	0.41
1:V:472:THR:HG22	1:V:493:ASN:HD21	1.86	0.41
1:X:334:PHE:CE1	1:X:391:PHE:HD2	2.39	0.41
1:X:475:TRP:HH2	1:X:486:VAL:HG11	1.86	0.41
1:X:600:ASP:OD2	1:X:717:THR:OG1	2.38	0.41
1:Z:277:ARG:HH21	1:Z:604:GLN:HB3	1.84	0.41
1:Z:400:ASN:ND2	1:a:214:ALA:H	2.19	0.41
1:Z:406:TYR:CE2	1:Z:408:PHE:CD1	3.08	0.41
1:e:268:THR:OG1	1:e:366:TYR:O	2.37	0.41
1:e:704:ASP:OD1	1:e:705:SER:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:247:TYR:OH	1:f:389:GLU:HG3	2.20	0.41
1:g:314:VAL:HG13	1:g:660:THR:HG23	2.03	0.41
1:g:342:PRO:HB3	1:h:421:GLN:NE2	2.34	0.41
1:g:483:ARG:O	1:h:441:THR:HG21	2.20	0.41
1:i:507:GLN:HB2	1:i:525:ASN:OD1	2.21	0.41
1:j:513:ASN:OD1	1:j:513:ASN:N	2.53	0.41
1:j:682:ARG:HD3	1:j:686:GLU:HG3	2.03	0.41
1:n:247:TYR:OH	1:n:389:GLU:HG3	2.20	0.41
1:o:334:PHE:CE1	1:o:391:PHE:HD2	2.38	0.41
1:o:439:VAL:HG13	1:o:440:SER:N	2.34	0.41
1:o:600:ASP:OD2	1:o:717:THR:OG1	2.38	0.41
1:p:472:THR:HG22	1:p:493:ASN:HD21	1.86	0.41
1:q:342:PRO:HB3	1:s:421:GLN:NE2	2.34	0.41
1:q:483:ARG:O	1:s:441:THR:HG21	2.21	0.41
1:q:507:GLN:HB2	1:q:525:ASN:OD1	2.20	0.41
1:r:334:PHE:CE1	1:r:391:PHE:HD2	2.38	0.41
1:t:314:VAL:HG13	1:t:660:THR:HG23	2.03	0.41
1:t:600:ASP:OD2	1:t:717:THR:OG1	2.38	0.41
1:u:235:ARG:HG3	1:u:353:LEU:HD22	2.02	0.41
1:u:391:PHE:CD1	1:u:391:PHE:N	2.88	0.41
1:v:268:THR:OG1	1:v:366:TYR:O	2.37	0.41
1:y:334:PHE:CE1	1:y:391:PHE:HD2	2.38	0.41
1:2:260:ALA:HB1	1:2:502:TYR:CE1	2.55	0.41
1:2:472:THR:HG22	1:2:493:ASN:HD21	1.86	0.41
1:2:507:GLN:HB2	1:2:525:ASN:OD1	2.20	0.41
1:3:406:TYR:CE2	1:3:408:PHE:CD1	3.08	0.41
1:4:334:PHE:CE1	1:4:391:PHE:HD2	2.38	0.41
1:4:420:SER:N	1:4:722:ARG:O	2.51	0.41
1:5:235:ARG:HG3	1:5:353:LEU:HD22	2.02	0.41
1:5:332:GLN:O	1:5:638:ILE:HA	2.21	0.41
1:7:397:ARG:HG2	1:7:398:THR:N	2.32	0.41
1:8:314:VAL:HG13	1:8:660:THR:HG23	2.03	0.41
1:8:334:PHE:CE1	1:8:391:PHE:HD2	2.39	0.41
1:8:406:TYR:CE2	1:8:408:PHE:CD1	3.08	0.41
1:8:513:ASN:OD1	1:8:513:ASN:N	2.53	0.41
1:A:441:THR:HG21	1:G:483:ARG:O	2.20	0.41
1:C:334:PHE:CE1	1:C:391:PHE:HD2	2.39	0.41
1:C:342:PRO:HB3	1:M:421:GLN:NE2	2.34	0.41
1:C:682:ARG:HD3	1:C:686:GLU:HG3	2.03	0.41
1:D:314:VAL:HG13	1:D:660:THR:HG23	2.03	0.41
1:F:260:ALA:HB1	1:F:502:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:600:ASP:OD2	1:G:717:THR:OG1	2.38	0.41
1:H:397:ARG:CG	1:H:398:THR:H	2.32	0.41
1:H:423:LEU:HD12	1:H:558:VAL:HG13	2.03	0.41
1:I:475:TRP:HH2	1:I:486:VAL:HG11	1.86	0.41
1:J:235:ARG:HG3	1:J:353:LEU:HD22	2.02	0.41
1:J:260:ALA:HB1	1:J:502:TYR:CE1	2.56	0.41
1:J:391:PHE:N	1:J:391:PHE:CD1	2.88	0.41
1:K:483:ARG:O	1:8:441:THR:HG21	2.20	0.41
1:M:682:ARG:HD3	1:M:686:GLU:HG3	2.03	0.41
1:O:633:PRO:HA	1:O:634:PRO:HD3	1.97	0.41
1:P:513:ASN:OD1	1:P:513:ASN:N	2.53	0.41
1:Q:406:TYR:CE2	1:Q:408:PHE:CD1	3.08	0.41
1:R:314:VAL:HG13	1:R:660:THR:HG23	2.03	0.41
1:R:507:GLN:HB2	1:R:525:ASN:OD1	2.20	0.41
1:S:235:ARG:HG3	1:S:353:LEU:HD22	2.02	0.41
1:T:268:THR:OG1	1:T:366:TYR:O	2.37	0.41
1:W:247:TYR:OH	1:W:389:GLU:HG3	2.20	0.41
1:W:420:SER:N	1:W:722:ARG:O	2.51	0.41
1:Y:215:SER:HB2	1:Y:308:ASN:H	1.85	0.41
1:Y:314:VAL:HG13	1:Y:660:THR:HG23	2.03	0.41
1:Z:334:PHE:CE1	1:Z:391:PHE:HD2	2.38	0.41
1:Z:423:LEU:HD12	1:Z:558:VAL:HG13	2.03	0.41
1:a:277:ARG:HH21	1:a:604:GLN:HB3	1.84	0.41
1:a:406:TYR:CE2	1:a:408:PHE:CD1	3.08	0.41
1:a:472:THR:HG22	1:a:493:ASN:HD21	1.86	0.41
1:d:600:ASP:OD2	1:d:717:THR:OG1	2.38	0.41
1:h:334:PHE:CE1	1:h:391:PHE:HD2	2.39	0.41
1:h:682:ARG:HD3	1:h:686:GLU:HG3	2.03	0.41
1:i:260:ALA:HB1	1:i:502:TYR:CE1	2.55	0.41
1:j:314:VAL:HG13	1:j:660:THR:HG23	2.03	0.41
1:k:268:THR:OG1	1:k:366:TYR:O	2.37	0.41
1:k:314:VAL:HG13	1:k:660:THR:HG23	2.02	0.41
1:m:268:THR:OG1	1:m:366:TYR:O	2.37	0.41
1:n:241:SER:OG	1:n:661:GLN:O	2.37	0.41
1:o:268:THR:OG1	1:o:366:TYR:O	2.37	0.41
1:o:314:VAL:HG13	1:o:660:THR:HG23	2.03	0.41
1:o:475:TRP:HH2	1:o:486:VAL:HG11	1.86	0.41
1:p:406:TYR:CE2	1:p:408:PHE:CD1	3.08	0.41
1:q:314:VAL:HG13	1:q:660:THR:HG23	2.03	0.41
1:q:475:TRP:HH2	1:q:486:VAL:HG11	1.86	0.41
1:r:268:THR:OG1	1:r:366:TYR:O	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:422:ASN:HA	1:t:557:PRO:HB3	2.02	0.41
1:t:441:THR:HG21	1:u:483:ARG:O	2.20	0.41
1:t:483:ARG:O	1:v:441:THR:HG21	2.20	0.41
1:u:475:TRP:HH2	1:u:486:VAL:HG11	1.86	0.41
1:v:423:LEU:HD12	1:v:558:VAL:HG13	2.03	0.41
1:x:247:TYR:OH	1:x:389:GLU:HG3	2.20	0.41
1:x:475:TRP:HH2	1:x:486:VAL:HG11	1.86	0.41
1:y:332:GLN:O	1:y:638:ILE:HA	2.20	0.41
1:z:334:PHE:CE1	1:z:391:PHE:HD2	2.38	0.41
1:1:247:TYR:OH	1:1:389:GLU:HG3	2.20	0.41
1:2:397:ARG:HG2	1:2:398:THR:N	2.31	0.41
1:2:406:TYR:CE2	1:2:408:PHE:CD1	3.08	0.41
1:3:472:THR:HG22	1:3:493:ASN:HD21	1.86	0.41
1:6:507:GLN:HB2	1:6:525:ASN:OD1	2.20	0.41
1:7:314:VAL:HG13	1:7:660:THR:HG23	2.03	0.41
1:7:682:ARG:HD3	1:7:686:GLU:HG3	2.02	0.41
1:8:277:ARG:HH21	1:8:604:GLN:HB3	1.84	0.41
1:8:423:LEU:HD12	1:8:558:VAL:HG13	2.03	0.41
1:A:268:THR:OG1	1:A:366:TYR:O	2.37	0.41
1:A:314:VAL:HG13	1:A:660:THR:HG23	2.03	0.41
1:A:391:PHE:N	1:A:391:PHE:CD1	2.88	0.41
1:A:420:SER:N	1:A:722:ARG:O	2.51	0.41
1:A:423:LEU:HD12	1:A:558:VAL:HG13	2.03	0.41
1:A:507:GLN:HB2	1:A:525:ASN:OD1	2.20	0.41
1:A:600:ASP:OD2	1:A:717:THR:OG1	2.38	0.41
1:B:247:TYR:OH	1:B:389:GLU:HG3	2.20	0.41
1:B:682:ARG:HD3	1:B:686:GLU:HG3	2.03	0.41
1:C:332:GLN:O	1:C:638:ILE:HA	2.21	0.41
1:D:235:ARG:HG3	1:D:353:LEU:HD22	2.02	0.41
1:D:260:ALA:HB1	1:D:502:TYR:CE1	2.55	0.41
1:D:268:THR:OG1	1:D:366:TYR:O	2.37	0.41
1:E:334:PHE:CE1	1:E:391:PHE:HD2	2.38	0.41
1:E:422:ASN:HA	1:E:557:PRO:HB3	2.02	0.41
1:F:332:GLN:O	1:F:638:ILE:HA	2.20	0.41
1:F:406:TYR:CE2	1:F:408:PHE:CD1	3.08	0.41
1:G:422:ASN:HA	1:G:557:PRO:HB3	2.02	0.41
1:G:441:THR:HG21	1:I:483:ARG:O	2.20	0.41
1:H:687:ILE:HD12	1:W:382:ARG:NE	2.36	0.41
1:I:214:ALA:H	1:J:400:ASN:ND2	2.18	0.41
1:I:247:TYR:OH	1:I:389:GLU:HG3	2.20	0.41
1:I:268:THR:OG1	1:I:366:TYR:O	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:406:TYR:OH	1:I:631:HIS:O	2.30	0.41
1:J:406:TYR:CE2	1:J:408:PHE:CD1	3.08	0.41
1:J:441:THR:HG21	1:L:483:ARG:O	2.20	0.41
1:K:420:SER:N	1:K:722:ARG:O	2.51	0.41
1:K:507:GLN:HB2	1:K:525:ASN:OD1	2.20	0.41
1:L:332:GLN:O	1:L:638:ILE:HA	2.20	0.41
1:L:334:PHE:CE1	1:L:391:PHE:HD2	2.38	0.41
1:L:377:GLU:H	1:L:377:GLU:HG2	1.73	0.41
1:L:422:ASN:HA	1:L:557:PRO:HB3	2.02	0.41
1:M:334:PHE:CE1	1:M:391:PHE:HD2	2.39	0.41
1:M:400:ASN:ND2	1:c:214:ALA:H	2.19	0.41
1:N:332:GLN:O	1:N:638:ILE:HA	2.20	0.41
1:N:707:GLY:HA2	1:m:247:TYR:O	2.21	0.41
1:O:214:ALA:H	1:P:400:ASN:ND2	2.19	0.41
1:O:397:ARG:CG	1:O:398:THR:H	2.32	0.41
1:Q:314:VAL:HG13	1:Q:660:THR:HG23	2.03	0.41
1:R:306:ILE:HD11	1:R:636:MET:SD	2.61	0.41
1:S:268:THR:OG1	1:S:366:TYR:O	2.37	0.41
1:S:421:GLN:NE2	1:U:342:PRO:HB3	2.34	0.41
1:U:391:PHE:N	1:U:391:PHE:CD1	2.88	0.41
1:V:406:TYR:CE2	1:V:408:PHE:CD1	3.08	0.41
1:V:421:GLN:NE2	1:e:342:PRO:HB3	2.34	0.41
1:V:682:ARG:HD3	1:V:686:GLU:HG3	2.03	0.41
1:W:314:VAL:HG13	1:W:660:THR:HG23	2.03	0.41
1:W:507:GLN:HB2	1:W:525:ASN:OD1	2.20	0.41
1:X:682:ARG:HD3	1:X:686:GLU:HG3	2.03	0.41
1:Y:332:GLN:O	1:Y:638:ILE:HA	2.20	0.41
1:Y:397:ARG:HG2	1:Y:398:THR:N	2.32	0.41
1:Y:476:ASN:OD1	1:Y:520:THR:OG1	2.26	0.41
1:Y:682:ARG:HD3	1:Y:686:GLU:HG3	2.02	0.41
1:Z:332:GLN:O	1:Z:638:ILE:HA	2.20	0.41
1:Z:391:PHE:N	1:Z:391:PHE:CD1	2.88	0.41
1:Z:441:THR:HG21	1:4:483:ARG:O	2.21	0.41
1:Z:513:ASN:OD1	1:Z:513:ASN:N	2.53	0.41
1:a:422:ASN:HA	1:a:557:PRO:HB3	2.02	0.41
1:b:247:TYR:OH	1:b:389:GLU:HG3	2.20	0.41
1:b:314:VAL:HG13	1:b:660:THR:HG23	2.03	0.41
1:b:397:ARG:CG	1:b:398:THR:H	2.32	0.41
1:b:513:ASN:N	1:b:513:ASN:OD1	2.53	0.41
1:b:600:ASP:OD2	1:b:717:THR:OG1	2.38	0.41
1:c:441:THR:HG21	1:o:483:ARG:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:704:ASP:OD1	1:c:705:SER:N	2.50	0.41
1:e:214:ALA:H	1:h:400:ASN:ND2	2.19	0.41
1:f:314:VAL:HG13	1:f:660:THR:HG23	2.03	0.41
1:f:406:TYR:CE2	1:f:408:PHE:CD1	3.08	0.41
1:g:268:THR:OG1	1:g:366:TYR:O	2.37	0.41
1:g:332:GLN:O	1:g:638:ILE:HA	2.21	0.41
1:g:334:PHE:CE1	1:g:391:PHE:HD2	2.38	0.41
1:g:682:ARG:HD3	1:g:686:GLU:HG3	2.03	0.41
1:h:214:ALA:H	1:i:400:ASN:ND2	2.18	0.41
1:i:306:ILE:HD11	1:i:636:MET:SD	2.61	0.41
1:i:332:GLN:O	1:i:638:ILE:HA	2.21	0.41
1:i:391:PHE:N	1:i:391:PHE:CD1	2.88	0.41
1:i:600:ASP:OD2	1:i:717:THR:OG1	2.38	0.41
1:j:334:PHE:CE1	1:j:391:PHE:HD2	2.39	0.41
1:j:400:ASN:ND2	1:l:214:ALA:H	2.19	0.41
1:j:600:ASP:OD2	1:j:717:THR:OG1	2.38	0.41
1:k:235:ARG:HG3	1:k:353:LEU:HD22	2.02	0.41
1:l:422:ASN:HA	1:l:557:PRO:HB3	2.02	0.41
1:l:633:PRO:HA	1:l:634:PRO:HD3	1.97	0.41
1:n:391:PHE:CD1	1:n:391:PHE:N	2.88	0.41
1:n:600:ASP:OD2	1:n:717:THR:OG1	2.38	0.41
1:o:235:ARG:HG3	1:o:353:LEU:HD22	2.02	0.41
1:o:332:GLN:O	1:o:638:ILE:HA	2.20	0.41
1:o:682:ARG:HD3	1:o:686:GLU:HG3	2.03	0.41
1:p:682:ARG:HD3	1:p:686:GLU:HG3	2.03	0.41
1:q:306:ILE:HD11	1:q:636:MET:SD	2.61	0.41
1:s:391:PHE:N	1:s:391:PHE:CD1	2.88	0.41
1:u:247:TYR:OH	1:u:389:GLU:HG3	2.20	0.41
1:v:314:VAL:HG13	1:v:660:THR:HG23	2.03	0.41
1:v:391:PHE:N	1:v:391:PHE:CD1	2.88	0.41
1:v:420:SER:N	1:v:722:ARG:O	2.51	0.41
1:v:507:GLN:HB2	1:v:525:ASN:OD1	2.20	0.41
1:v:600:ASP:OD2	1:v:717:THR:OG1	2.38	0.41
1:w:422:ASN:HA	1:w:557:PRO:HB3	2.02	0.41
1:x:406:TYR:CE2	1:x:408:PHE:CD1	3.08	0.41
1:y:260:ALA:HB1	1:y:502:TYR:CE1	2.55	0.41
1:y:406:TYR:CE2	1:y:408:PHE:CD1	3.08	0.41
1:y:633:PRO:HA	1:y:634:PRO:HD3	1.97	0.41
1:z:332:GLN:O	1:z:638:ILE:HA	2.20	0.41
1:z:422:ASN:HA	1:z:557:PRO:HB3	2.02	0.41
1:1:682:ARG:HD3	1:1:686:GLU:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:235:ARG:HG3	1:2:353:LEU:HD22	2.02	0.41
1:3:314:VAL:HG13	1:3:660:THR:HG23	2.03	0.41
1:3:483:ARG:O	1:4:441:THR:HG21	2.21	0.41
1:5:397:ARG:CG	1:5:398:THR:H	2.32	0.41
1:6:247:TYR:OH	1:6:389:GLU:HG3	2.20	0.41
1:6:314:VAL:HG13	1:6:660:THR:HG23	2.03	0.41
1:7:215:SER:HB2	1:7:308:ASN:H	1.85	0.41
1:7:332:GLN:O	1:7:638:ILE:HA	2.20	0.41
1:8:332:GLN:O	1:8:638:ILE:HA	2.20	0.41
1:8:391:PHE:N	1:8:391:PHE:CD1	2.88	0.41
1:B:332:GLN:O	1:B:638:ILE:HA	2.21	0.41
1:C:406:TYR:CE2	1:C:408:PHE:CD1	3.08	0.41
1:E:260:ALA:HB1	1:E:502:TYR:CE1	2.55	0.41
1:F:400:ASN:ND2	1:R:214:ALA:H	2.19	0.41
1:F:406:TYR:OH	1:F:631:HIS:O	2.30	0.41
1:F:472:THR:HG22	1:F:493:ASN:HD21	1.86	0.41
1:I:332:GLN:O	1:I:638:ILE:HA	2.20	0.41
1:J:707:GLY:HA2	1:a:247:TYR:O	2.21	0.41
1:K:406:TYR:CE2	1:K:408:PHE:CD1	3.08	0.41
1:K:441:THR:HG21	1:a:483:ARG:O	2.21	0.41
1:N:215:SER:HB2	1:N:308:ASN:H	1.85	0.41
1:N:306:ILE:HD11	1:N:636:MET:SD	2.61	0.41
1:N:391:PHE:N	1:N:391:PHE:CD1	2.88	0.41
1:N:600:ASP:OD2	1:N:717:THR:OG1	2.38	0.41
1:P:600:ASP:OD2	1:P:717:THR:OG1	2.38	0.41
1:R:235:ARG:HG3	1:R:353:LEU:HD22	2.02	0.41
1:R:441:THR:HG21	1:S:483:ARG:O	2.20	0.41
1:R:449:PHE:CE1	1:S:528:ILE:HD13	2.56	0.41
1:S:306:ILE:HD11	1:S:636:MET:SD	2.61	0.41
1:T:306:ILE:HD11	1:T:636:MET:SD	2.61	0.41
1:T:332:GLN:O	1:T:638:ILE:HA	2.21	0.41
1:U:334:PHE:CE1	1:U:391:PHE:HD2	2.38	0.41
1:V:475:TRP:HH2	1:V:486:VAL:HG11	1.86	0.41
1:X:277:ARG:NE	1:X:279:HIS:HE1	2.19	0.41
1:X:306:ILE:HD11	1:X:636:MET:SD	2.61	0.41
1:X:406:TYR:CE2	1:X:408:PHE:CD1	3.08	0.41
1:X:483:ARG:O	1:e:441:THR:HG21	2.21	0.41
1:a:306:ILE:HD11	1:a:636:MET:SD	2.61	0.41
1:a:420:SER:N	1:a:722:ARG:O	2.51	0.41
1:b:305:LYS:HB3	1:b:668:THR:HG22	2.03	0.41
1:b:406:TYR:CE2	1:b:408:PHE:CD1	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:342:PRO:HB3	1:p:421:GLN:NE2	2.34	0.41
1:f:215:SER:HB2	1:f:308:ASN:H	1.85	0.41
1:f:305:LYS:HB3	1:f:668:THR:HG22	2.03	0.41
1:f:397:ARG:CG	1:f:398:THR:H	2.32	0.41
1:f:513:ASN:N	1:f:513:ASN:OD1	2.53	0.41
1:f:600:ASP:OD2	1:f:717:THR:OG1	2.38	0.41
1:g:406:TYR:CE2	1:g:408:PHE:CD1	3.08	0.41
1:h:332:GLN:O	1:h:638:ILE:HA	2.20	0.41
1:m:507:GLN:HB2	1:m:525:ASN:OD1	2.20	0.41
1:n:277:ARG:NE	1:n:279:HIS:HE1	2.19	0.41
1:o:306:ILE:HD11	1:o:636:MET:SD	2.61	0.41
1:o:406:TYR:CE2	1:o:408:PHE:CD1	3.08	0.41
1:p:475:TRP:HH2	1:p:486:VAL:HG11	1.86	0.41
1:q:214:ALA:H	1:y:400:ASN:ND2	2.19	0.41
1:q:441:THR:HG21	1:r:483:ARG:O	2.20	0.41
1:r:306:ILE:HD11	1:r:636:MET:SD	2.61	0.41
1:r:391:PHE:N	1:r:391:PHE:CD1	2.88	0.41
1:r:475:TRP:HH2	1:r:486:VAL:HG11	1.86	0.41
1:u:305:LYS:HB3	1:u:668:THR:HG22	2.03	0.41
1:w:260:ALA:HB1	1:w:502:TYR:CE1	2.55	0.41
1:w:334:PHE:CE1	1:w:391:PHE:HD2	2.38	0.41
1:z:483:ARG:O	1:2:441:THR:HG21	2.20	0.41
1:1:268:THR:OG1	1:1:366:TYR:O	2.37	0.41
1:1:332:GLN:O	1:1:638:ILE:HA	2.20	0.41
1:1:423:LEU:HD12	1:1:558:VAL:HG13	2.03	0.41
1:2:423:LEU:HD12	1:2:558:VAL:HG13	2.03	0.41
1:2:707:GLY:HA2	1:3:247:TYR:O	2.21	0.41
1:3:420:SER:N	1:3:722:ARG:O	2.51	0.41
1:4:314:VAL:HG13	1:4:660:THR:HG23	2.03	0.41
1:4:406:TYR:CE2	1:4:408:PHE:CD1	3.08	0.41
1:4:507:GLN:HB2	1:4:525:ASN:OD1	2.20	0.41
1:5:423:LEU:HD12	1:5:558:VAL:HG13	2.03	0.41
1:5:441:THR:HG21	1:6:483:ARG:O	2.21	0.41
1:5:704:ASP:OD1	1:5:705:SER:N	2.50	0.41
1:6:268:THR:OG1	1:6:366:TYR:O	2.37	0.41
1:6:420:SER:N	1:6:722:ARG:O	2.51	0.41
1:7:247:TYR:OH	1:7:389:GLU:HG3	2.20	0.41
1:8:507:GLN:HB2	1:8:525:ASN:OD1	2.20	0.41
1:8:590:ILE:HD13	1:8:590:ILE:HA	1.92	0.41
1:A:483:ARG:O	1:I:441:THR:HG21	2.21	0.40
1:B:268:THR:OG1	1:B:366:TYR:O	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:397:ARG:CG	1:B:398:THR:H	2.32	0.40
1:B:400:ASN:ND2	1:C:214:ALA:H	2.18	0.40
1:B:423:LEU:HD12	1:B:558:VAL:HG13	2.03	0.40
1:C:268:THR:OG1	1:C:366:TYR:O	2.37	0.40
1:D:306:ILE:HD11	1:D:636:MET:SD	2.61	0.40
1:D:613:GLU:HG2	1:P:722:ARG:HH21	1.87	0.40
1:E:215:SER:HB2	1:E:308:ASN:H	1.85	0.40
1:F:528:ILE:HD13	1:Q:449:PHE:CE1	2.56	0.40
1:G:472:THR:HG22	1:G:493:ASN:HD21	1.86	0.40
1:H:356:PHE:HA	1:H:357:PRO:HD3	1.95	0.40
1:H:377:GLU:H	1:H:377:GLU:HG2	1.73	0.40
1:I:305:LYS:HB3	1:I:668:THR:HG22	2.04	0.40
1:I:472:THR:HG22	1:I:493:ASN:HD21	1.86	0.40
1:J:423:LEU:HD12	1:J:558:VAL:HG13	2.03	0.40
1:M:590:ILE:HD13	1:M:590:ILE:HA	1.92	0.40
1:O:475:TRP:HH2	1:O:486:VAL:HG11	1.86	0.40
1:P:305:LYS:HB3	1:P:668:THR:HG22	2.03	0.40
1:P:507:GLN:HB2	1:P:525:ASN:OD1	2.20	0.40
1:Q:422:ASN:HA	1:Q:557:PRO:HB3	2.02	0.40
1:S:475:TRP:HH2	1:S:486:VAL:HG11	1.86	0.40
1:T:247:TYR:O	1:i:707:GLY:HA2	2.21	0.40
1:U:420:SER:N	1:U:722:ARG:O	2.51	0.40
1:V:277:ARG:NE	1:V:279:HIS:HE1	2.19	0.40
1:V:305:LYS:HB3	1:V:668:THR:HG22	2.04	0.40
1:W:704:ASP:OD1	1:W:705:SER:N	2.50	0.40
1:X:235:ARG:HG3	1:X:353:LEU:HD22	2.02	0.40
1:X:332:GLN:O	1:X:638:ILE:HA	2.21	0.40
1:Y:247:TYR:OH	1:Y:389:GLU:HG3	2.20	0.40
1:Y:406:TYR:CE2	1:Y:408:PHE:CD1	3.08	0.40
1:Y:423:LEU:HD12	1:Y:558:VAL:HG13	2.03	0.40
1:Z:397:ARG:HG2	1:Z:398:THR:N	2.32	0.40
1:Z:507:GLN:HB2	1:Z:525:ASN:OD1	2.20	0.40
1:a:314:VAL:HG13	1:a:660:THR:HG23	2.03	0.40
1:c:722:ARG:HH21	1:o:613:GLU:HG2	1.87	0.40
1:d:277:ARG:NE	1:d:279:HIS:HE1	2.19	0.40
1:d:421:GLN:NE2	1:l:342:PRO:HB3	2.34	0.40
1:d:475:TRP:HH2	1:d:486:VAL:HG11	1.86	0.40
1:d:590:ILE:HD13	1:d:590:ILE:HA	1.92	0.40
1:f:235:ARG:HG3	1:f:353:LEU:HD22	2.02	0.40
1:i:215:SER:HB2	1:i:308:ASN:H	1.85	0.40
1:i:528:ILE:HD13	1:k:449:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:260:ALA:HB1	1:k:502:TYR:CE1	2.56	0.40
1:l:397:ARG:CG	1:l:398:THR:H	2.32	0.40
1:l:475:TRP:HH2	1:l:486:VAL:HG11	1.86	0.40
1:m:306:ILE:HD11	1:m:636:MET:SD	2.61	0.40
1:m:332:GLN:O	1:m:638:ILE:HA	2.21	0.40
1:o:277:ARG:NE	1:o:279:HIS:HE1	2.19	0.40
1:p:277:ARG:NE	1:p:279:HIS:HE1	2.19	0.40
1:p:305:LYS:HB3	1:p:668:THR:HG22	2.04	0.40
1:q:235:ARG:HG3	1:q:353:LEU:HD22	2.02	0.40
1:q:449:PHE:CE1	1:r:528:ILE:HD13	2.56	0.40
1:t:475:TRP:HH2	1:t:486:VAL:HG11	1.86	0.40
1:u:214:ALA:H	1:2:400:ASN:ND2	2.19	0.40
1:w:215:SER:HB2	1:w:308:ASN:H	1.85	0.40
1:y:682:ARG:HD3	1:y:686:GLU:HG3	2.03	0.40
1:3:306:ILE:HD11	1:3:636:MET:SD	2.61	0.40
1:6:704:ASP:OD1	1:6:705:SER:N	2.50	0.40
1:7:268:THR:OG1	1:7:366:TYR:O	2.37	0.40
1:7:277:ARG:NE	1:7:279:HIS:HE1	2.19	0.40
1:8:247:TYR:OH	1:8:389:GLU:HG3	2.20	0.40
1:B:247:TYR:O	1:C:707:GLY:HA2	2.22	0.40
1:B:406:TYR:CE2	1:B:408:PHE:CD1	3.08	0.40
1:B:483:ARG:O	1:L:441:THR:HG21	2.21	0.40
1:C:449:PHE:CE1	1:b:528:ILE:HD13	2.57	0.40
1:D:305:LYS:HB3	1:D:668:THR:HG22	2.03	0.40
1:D:449:PHE:CE1	1:N:528:ILE:HD13	2.57	0.40
1:E:277:ARG:NE	1:E:279:HIS:HE1	2.19	0.40
1:E:406:TYR:CE2	1:E:408:PHE:CD1	3.08	0.40
1:E:423:LEU:HD12	1:E:558:VAL:HG13	2.03	0.40
1:E:475:TRP:HH2	1:E:486:VAL:HG11	1.86	0.40
1:F:682:ARG:HD3	1:F:686:GLU:HG3	2.03	0.40
1:K:314:VAL:HG13	1:K:660:THR:HG23	2.03	0.40
1:K:332:GLN:O	1:K:638:ILE:HA	2.21	0.40
1:M:277:ARG:NE	1:M:279:HIS:HE1	2.19	0.40
1:M:332:GLN:O	1:M:638:ILE:HA	2.21	0.40
1:M:391:PHE:N	1:M:391:PHE:CD1	2.88	0.40
1:N:722:ARG:HH21	1:P:613:GLU:HG2	1.86	0.40
1:O:334:PHE:CE1	1:O:391:PHE:HD2	2.39	0.40
1:O:342:PRO:HB3	1:n:421:GLN:NE2	2.34	0.40
1:O:707:GLY:HA2	1:P:247:TYR:O	2.22	0.40
1:R:227:ASP:O	1:R:675:LEU:HB2	2.22	0.40
1:R:423:LEU:HD12	1:R:558:VAL:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:507:GLN:HB2	1:T:525:ASN:OD1	2.20	0.40
1:W:268:THR:OG1	1:W:366:TYR:O	2.37	0.40
1:Y:268:THR:OG1	1:Y:366:TYR:O	2.37	0.40
1:Y:277:ARG:NE	1:Y:279:HIS:HE1	2.20	0.40
1:Z:247:TYR:OH	1:Z:389:GLU:HG3	2.20	0.40
1:Z:356:PHE:HA	1:Z:357:PRO:HD3	1.95	0.40
1:Z:449:PHE:CE1	1:4:528:ILE:HD13	2.56	0.40
1:a:475:TRP:HH2	1:a:486:VAL:HG11	1.86	0.40
1:b:215:SER:HB2	1:b:308:ASN:H	1.85	0.40
1:b:235:ARG:HG3	1:b:353:LEU:HD22	2.02	0.40
1:b:423:LEU:HD12	1:b:558:VAL:HG13	2.03	0.40
1:b:475:TRP:HH2	1:b:486:VAL:HG11	1.86	0.40
1:f:722:ARG:HH21	1:h:613:GLU:HG2	1.87	0.40
1:g:227:ASP:O	1:g:675:LEU:HB2	2.22	0.40
1:g:528:ILE:HD13	1:h:449:PHE:CE1	2.57	0.40
1:h:277:ARG:NE	1:h:279:HIS:HE1	2.19	0.40
1:h:475:TRP:HH2	1:h:486:VAL:HG11	1.86	0.40
1:i:459:ASN:OD1	1:i:459:ASN:N	2.46	0.40
1:j:475:TRP:HH2	1:j:486:VAL:HG11	1.86	0.40
1:j:507:GLN:HB2	1:j:525:ASN:OD1	2.20	0.40
1:k:306:ILE:HD11	1:k:636:MET:SD	2.61	0.40
1:l:334:PHE:CE1	1:l:391:PHE:HD2	2.39	0.40
1:n:475:TRP:HH2	1:n:486:VAL:HG11	1.86	0.40
1:o:423:LEU:HD12	1:o:558:VAL:HG13	2.03	0.40
1:o:707:GLY:HA2	1:7:247:TYR:O	2.22	0.40
1:p:227:ASP:O	1:p:675:LEU:HB2	2.22	0.40
1:p:306:ILE:HD11	1:p:636:MET:SD	2.61	0.40
1:q:227:ASP:O	1:q:675:LEU:HB2	2.22	0.40
1:q:377:GLU:H	1:q:377:GLU:HG2	1.73	0.40
1:q:423:LEU:HD12	1:q:558:VAL:HG13	2.03	0.40
1:q:600:ASP:OD2	1:q:717:THR:OG1	2.38	0.40
1:r:421:GLN:NE2	1:s:342:PRO:HB3	2.34	0.40
1:r:722:ARG:HH21	1:s:613:GLU:HG2	1.86	0.40
1:s:334:PHE:CE1	1:s:391:PHE:HD2	2.38	0.40
1:s:356:PHE:HA	1:s:357:PRO:HD3	1.95	0.40
1:t:306:ILE:HD11	1:t:636:MET:SD	2.61	0.40
1:t:707:GLY:HA2	1:6:247:TYR:O	2.22	0.40
1:u:332:GLN:O	1:u:638:ILE:HA	2.21	0.40
1:v:306:ILE:HD11	1:v:636:MET:SD	2.61	0.40
1:w:406:TYR:CE2	1:w:408:PHE:CD1	3.08	0.40
1:w:475:TRP:HH2	1:w:486:VAL:HG11	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:449:PHE:CE1	1:y:528:ILE:HD13	2.57	0.40
1:y:472:THR:HG22	1:y:493:ASN:HD21	1.86	0.40
1:z:377:GLU:H	1:z:377:GLU:HG2	1.73	0.40
1:3:422:ASN:HA	1:3:557:PRO:HB3	2.02	0.40
1:3:475:TRP:HH2	1:3:486:VAL:HG11	1.86	0.40
1:4:332:GLN:O	1:4:638:ILE:HA	2.21	0.40
1:6:306:ILE:HD11	1:6:636:MET:SD	2.61	0.40
1:7:406:TYR:CE2	1:7:408:PHE:CD1	3.08	0.40
1:A:400:ASN:ND2	1:B:214:ALA:H	2.20	0.40
1:A:472:THR:HG22	1:A:493:ASN:HD21	1.86	0.40
1:A:590:ILE:HD13	1:A:590:ILE:HA	1.92	0.40
1:B:306:ILE:HD11	1:B:636:MET:SD	2.61	0.40
1:B:314:VAL:HG13	1:B:660:THR:HG23	2.03	0.40
1:B:422:ASN:HA	1:B:557:PRO:HB3	2.02	0.40
1:C:227:ASP:O	1:C:675:LEU:HB2	2.22	0.40
1:C:404:PHE:CZ	1:C:634:PRO:HG2	2.57	0.40
1:C:528:ILE:HD13	1:M:449:PHE:CE1	2.57	0.40
1:D:483:ARG:O	1:P:441:THR:HG21	2.20	0.40
1:E:227:ASP:O	1:E:675:LEU:HB2	2.22	0.40
1:E:306:ILE:HD11	1:E:636:MET:SD	2.61	0.40
1:E:420:SER:N	1:E:722:ARG:O	2.51	0.40
1:F:475:TRP:HH2	1:F:486:VAL:HG11	1.86	0.40
1:F:507:GLN:HB2	1:F:525:ASN:OD1	2.20	0.40
1:F:600:ASP:OD2	1:F:717:THR:OG1	2.38	0.40
1:G:421:GLN:NE2	1:I:342:PRO:HB3	2.34	0.40
1:G:507:GLN:HB2	1:G:525:ASN:OD1	2.20	0.40
1:G:707:GLY:HA2	1:W:247:TYR:O	2.22	0.40
1:G:722:ARG:HH21	1:I:613:GLU:HG2	1.87	0.40
1:H:306:ILE:HD11	1:H:636:MET:SD	2.61	0.40
1:H:704:ASP:OD1	1:H:705:SER:N	2.50	0.40
1:J:397:ARG:HG2	1:J:398:THR:N	2.32	0.40
1:J:475:TRP:HH2	1:J:486:VAL:HG11	1.86	0.40
1:K:306:ILE:HD11	1:K:636:MET:SD	2.61	0.40
1:K:423:LEU:HD12	1:K:558:VAL:HG13	2.03	0.40
1:K:472:THR:HG22	1:K:493:ASN:HD21	1.86	0.40
1:K:528:ILE:HD13	1:8:449:PHE:CE1	2.56	0.40
1:L:475:TRP:HH2	1:L:486:VAL:HG11	1.86	0.40
1:N:423:LEU:HD12	1:N:558:VAL:HG13	2.03	0.40
1:O:305:LYS:HB3	1:O:668:THR:HG22	2.03	0.40
1:O:441:THR:HG21	1:m:483:ARG:O	2.20	0.40
1:Q:423:LEU:HD12	1:Q:558:VAL:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:513:ASN:OD1	1:Q:513:ASN:N	2.53	0.40
1:R:600:ASP:OD2	1:R:717:THR:OG1	2.38	0.40
1:S:600:ASP:OD2	1:S:717:THR:OG1	2.38	0.40
1:S:722:ARG:HH21	1:U:613:GLU:HG2	1.87	0.40
1:T:277:ARG:NE	1:T:279:HIS:HE1	2.20	0.40
1:T:314:VAL:HG13	1:T:660:THR:HG23	2.03	0.40
1:T:475:TRP:HH2	1:T:486:VAL:HG11	1.86	0.40
1:T:483:ARG:O	1:l:441:THR:HG21	2.20	0.40
1:V:227:ASP:O	1:V:675:LEU:HB2	2.22	0.40
1:V:306:ILE:HD11	1:V:636:MET:SD	2.61	0.40
1:V:334:PHE:CE1	1:V:391:PHE:HD2	2.38	0.40
1:W:306:ILE:HD11	1:W:636:MET:SD	2.61	0.40
1:W:693:TYR:OH	1:W:700:ASP:OD2	2.29	0.40
1:X:400:ASN:ND2	1:f:214:ALA:H	2.19	0.40
1:X:420:SER:N	1:X:722:ARG:O	2.51	0.40
1:X:423:LEU:HD12	1:X:558:VAL:HG13	2.03	0.40
1:X:613:GLU:HG2	1:e:722:ARG:HH21	1.87	0.40
1:X:707:GLY:HA2	1:Y:247:TYR:O	2.22	0.40
1:Z:260:ALA:HB1	1:Z:502:TYR:CE1	2.56	0.40
1:a:682:ARG:HD3	1:a:686:GLU:HG3	2.03	0.40
1:c:516:GLN:HB2	1:c:556:GLN:NE2	2.37	0.40
1:d:227:ASP:O	1:d:675:LEU:HB2	2.22	0.40
1:d:235:ARG:HG3	1:d:353:LEU:HD22	2.02	0.40
1:f:423:LEU:HD12	1:f:558:VAL:HG13	2.03	0.40
1:f:475:TRP:HH2	1:f:486:VAL:HG11	1.86	0.40
1:f:528:ILE:HD13	1:g:449:PHE:CE1	2.57	0.40
1:h:391:PHE:N	1:h:391:PHE:CD1	2.88	0.40
1:h:590:ILE:HD13	1:h:590:ILE:HA	1.92	0.40
1:j:305:LYS:HB3	1:j:668:THR:HG22	2.04	0.40
1:j:722:ARG:HH21	1:k:613:GLU:HG2	1.87	0.40
1:k:400:ASN:ND2	1:w:214:ALA:H	2.19	0.40
1:m:277:ARG:NE	1:m:279:HIS:HE1	2.19	0.40
1:m:475:TRP:HH2	1:m:486:VAL:HG11	1.86	0.40
1:n:235:ARG:HG3	1:n:353:LEU:HD22	2.02	0.40
1:n:422:ASN:HA	1:n:557:PRO:HB3	2.02	0.40
1:q:260:ALA:HB1	1:q:502:TYR:CE1	2.55	0.40
1:r:600:ASP:OD2	1:r:717:THR:OG1	2.38	0.40
1:s:306:ILE:HD11	1:s:636:MET:SD	2.61	0.40
1:s:420:SER:N	1:s:722:ARG:O	2.51	0.40
1:t:472:THR:HG22	1:t:493:ASN:HD21	1.86	0.40
1:u:397:ARG:HG2	1:u:398:THR:N	2.32	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:472:THR:HG22	1:u:493:ASN:HD21	1.86	0.40
1:v:472:THR:HG22	1:v:493:ASN:HD21	1.86	0.40
1:w:277:ARG:NE	1:w:279:HIS:HE1	2.20	0.40
1:w:423:LEU:HD12	1:w:558:VAL:HG13	2.03	0.40
1:x:227:ASP:O	1:x:675:LEU:HB2	2.22	0.40
1:x:422:ASN:HA	1:x:557:PRO:HB3	2.02	0.40
1:x:513:ASN:OD1	1:x:513:ASN:N	2.53	0.40
1:y:475:TRP:HH2	1:y:486:VAL:HG11	1.86	0.40
1:z:441:THR:HG21	1:1:483:ARG:O	2.21	0.40
1:z:449:PHE:CE1	1:1:528:ILE:HD13	2.57	0.40
1:1:397:ARG:CG	1:1:398:THR:H	2.32	0.40
1:1:406:TYR:CE2	1:1:408:PHE:CD1	3.08	0.40
1:1:449:PHE:CE1	1:2:528:ILE:HD13	2.56	0.40
1:2:475:TRP:HH2	1:2:486:VAL:HG11	1.86	0.40
1:3:528:ILE:HD13	1:4:449:PHE:CE1	2.57	0.40
1:3:682:ARG:HD3	1:3:686:GLU:HG3	2.03	0.40
1:4:306:ILE:HD11	1:4:636:MET:SD	2.61	0.40
1:4:467:GLY:HA3	1:4:596:TRP:HB3	2.04	0.40
1:6:722:ARG:HH21	1:7:613:GLU:HG2	1.87	0.40
1:7:423:LEU:HD12	1:7:558:VAL:HG13	2.03	0.40
1:A:306:ILE:HD11	1:A:636:MET:SD	2.61	0.40
1:B:528:ILE:HD13	1:L:449:PHE:CE1	2.57	0.40
1:C:423:LEU:HD12	1:C:558:VAL:HG13	2.03	0.40
1:C:722:ARG:HH21	1:b:613:GLU:HG2	1.87	0.40
1:D:422:ASN:HA	1:D:557:PRO:HB3	2.02	0.40
1:F:306:ILE:HD11	1:F:636:MET:SD	2.61	0.40
1:G:306:ILE:HD11	1:G:636:MET:SD	2.61	0.40
1:G:475:TRP:HH2	1:G:486:VAL:HG11	1.86	0.40
1:H:227:ASP:O	1:H:675:LEU:HB2	2.21	0.40
1:H:277:ARG:NE	1:H:279:HIS:HE1	2.19	0.40
1:H:328:THR:CG2	1:Z:310:GLN:HG2	2.51	0.40
1:H:475:TRP:HH2	1:H:486:VAL:HG11	1.86	0.40
1:K:247:TYR:OH	1:K:389:GLU:HG3	2.20	0.40
1:K:449:PHE:CE1	1:a:528:ILE:HD13	2.57	0.40
1:K:475:TRP:HH2	1:K:486:VAL:HG11	1.86	0.40
1:L:467:GLY:HA3	1:L:596:TRP:HB3	2.04	0.40
1:M:314:VAL:HG13	1:M:660:THR:HG23	2.03	0.40
1:M:475:TRP:HH2	1:M:486:VAL:HG11	1.86	0.40
1:M:613:GLU:HG2	1:b:722:ARG:HH21	1.87	0.40
1:O:227:ASP:O	1:O:675:LEU:HB2	2.22	0.40
1:O:449:PHE:CE1	1:m:528:ILE:HD13	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:722:ARG:HH21	1:m:613:GLU:HG2	1.87	0.40
1:P:475:TRP:HH2	1:P:486:VAL:HG11	1.86	0.40
1:Q:227:ASP:O	1:Q:675:LEU:HB2	2.22	0.40
1:Q:334:PHE:CE1	1:Q:391:PHE:HD2	2.39	0.40
1:Q:516:GLN:HB2	1:Q:556:GLN:NE2	2.37	0.40
1:R:260:ALA:HB1	1:R:502:TYR:CE1	2.55	0.40
1:S:305:LYS:HB3	1:S:668:THR:HG22	2.04	0.40
1:S:449:PHE:CE1	1:U:528:ILE:HD13	2.57	0.40
1:T:214:ALA:H	1:U:400:ASN:ND2	2.19	0.40
1:U:332:GLN:O	1:U:638:ILE:HA	2.20	0.40
1:U:404:PHE:CZ	1:U:634:PRO:HG2	2.57	0.40
1:V:590:ILE:HD13	1:V:590:ILE:HA	1.92	0.40
1:W:423:LEU:HD12	1:W:558:VAL:HG13	2.03	0.40
1:Y:516:GLN:HB2	1:Y:556:GLN:NE2	2.37	0.40
1:Z:227:ASP:O	1:Z:675:LEU:HB2	2.22	0.40
1:Z:306:ILE:HD11	1:Z:636:MET:SD	2.61	0.40
1:Z:422:ASN:HA	1:Z:557:PRO:HB3	2.02	0.40
1:b:214:ALA:H	1:o:400:ASN:ND2	2.19	0.40
1:b:422:ASN:HA	1:b:557:PRO:HB3	2.02	0.40
1:d:306:ILE:HD11	1:d:636:MET:SD	2.61	0.40
1:d:423:LEU:HD12	1:d:558:VAL:HG13	2.03	0.40
1:e:516:GLN:HB2	1:e:556:GLN:NE2	2.37	0.40
1:f:613:GLU:HG2	1:g:722:ARG:HH21	1.87	0.40
1:g:214:ALA:H	1:l:400:ASN:ND2	2.19	0.40
1:g:404:PHE:CZ	1:g:634:PRO:HG2	2.57	0.40
1:h:314:VAL:HG13	1:h:660:THR:HG23	2.03	0.40
1:i:722:ARG:HH21	1:j:613:GLU:HG2	1.87	0.40
1:j:214:ALA:H	1:x:400:ASN:ND2	2.19	0.40
1:j:277:ARG:NE	1:j:279:HIS:HE1	2.19	0.40
1:j:441:THR:HG21	1:k:483:ARG:O	2.20	0.40
1:k:305:LYS:HB3	1:k:668:THR:HG22	2.04	0.40
1:k:422:ASN:HA	1:k:557:PRO:HB3	2.02	0.40
1:l:227:ASP:O	1:l:675:LEU:HB2	2.22	0.40
1:l:305:LYS:HB3	1:l:668:THR:HG22	2.04	0.40
1:m:314:VAL:HG13	1:m:660:THR:HG23	2.03	0.40
1:m:449:PHE:CE1	1:n:528:ILE:HD13	2.57	0.40
1:m:467:GLY:HA3	1:m:596:TRP:HB3	2.04	0.40
1:n:227:ASP:O	1:n:675:LEU:HB2	2.22	0.40
1:n:247:TYR:O	1:r:707:GLY:HA2	2.21	0.40
1:p:334:PHE:CE1	1:p:391:PHE:HD2	2.38	0.40
1:p:406:TYR:OH	1:p:631:HIS:O	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:305:LYS:HB3	1:r:668:THR:HG22	2.03	0.40
1:r:449:PHE:CE1	1:s:528:ILE:HD13	2.57	0.40
1:s:305:LYS:HB3	1:s:668:THR:HG22	2.03	0.40
1:s:332:GLN:O	1:s:638:ILE:HA	2.20	0.40
1:s:475:TRP:HH2	1:s:486:VAL:HG11	1.86	0.40
1:t:722:ARG:HH21	1:u:613:GLU:HG2	1.87	0.40
1:w:227:ASP:O	1:w:675:LEU:HB2	2.22	0.40
1:w:449:PHE:CE1	1:x:528:ILE:HD13	2.57	0.40
1:x:277:ARG:NE	1:x:279:HIS:HE1	2.19	0.40
1:x:334:PHE:CE1	1:x:391:PHE:HD2	2.39	0.40
1:y:306:ILE:HD11	1:y:636:MET:SD	2.61	0.40
1:y:507:GLN:HB2	1:y:525:ASN:OD1	2.20	0.40
1:y:600:ASP:OD2	1:y:717:THR:OG1	2.38	0.40
1:z:467:GLY:HA3	1:z:596:TRP:HB3	2.04	0.40
1:z:475:TRP:HH2	1:z:486:VAL:HG11	1.86	0.40
1:2:459:ASN:OD1	1:2:459:ASN:N	2.46	0.40
1:4:422:ASN:HA	1:4:557:PRO:HB3	2.02	0.40
1:4:423:LEU:HD12	1:4:558:VAL:HG13	2.03	0.40
1:5:306:ILE:HD11	1:5:636:MET:SD	2.61	0.40
1:6:227:ASP:O	1:6:675:LEU:HB2	2.22	0.40
1:7:516:GLN:HB2	1:7:556:GLN:NE2	2.37	0.40
1:8:227:ASP:O	1:8:675:LEU:HB2	2.22	0.40
1:8:260:ALA:HB1	1:8:502:TYR:CE1	2.55	0.40
1:8:306:ILE:HD11	1:8:636:MET:SD	2.61	0.40
1:8:356:PHE:HA	1:8:357:PRO:HD3	1.95	0.40
1:8:422:ASN:HA	1:8:557:PRO:HB3	2.02	0.40
1:A:227:ASP:O	1:A:675:LEU:HB2	2.22	0.40
1:B:277:ARG:NE	1:B:279:HIS:HE1	2.19	0.40
1:B:449:PHE:CE1	1:J:528:ILE:HD13	2.57	0.40
1:B:513:ASN:OD1	1:B:513:ASN:N	2.53	0.40
1:C:277:ARG:NE	1:C:279:HIS:HE1	2.19	0.40
1:D:400:ASN:ND2	1:E:214:ALA:H	2.19	0.40
1:E:449:PHE:CE1	1:Q:528:ILE:HD13	2.56	0.40
1:H:422:ASN:HA	1:H:557:PRO:HB3	2.02	0.40
1:K:467:GLY:HA3	1:K:596:TRP:HB3	2.04	0.40
1:N:314:VAL:HG13	1:N:660:THR:HG23	2.03	0.40
1:N:459:ASN:OD1	1:N:459:ASN:N	2.46	0.40
1:N:475:TRP:HH2	1:N:486:VAL:HG11	1.86	0.40
1:N:516:GLN:HB2	1:N:556:GLN:NE2	2.37	0.40
1:O:516:GLN:HB2	1:O:556:GLN:NE2	2.37	0.40
1:O:590:ILE:HD13	1:O:590:ILE:HA	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:682:ARG:HD3	1:O:686:GLU:HG3	2.03	0.40
1:P:306:ILE:HD11	1:P:636:MET:SD	2.61	0.40
1:Q:277:ARG:NE	1:Q:279:HIS:HE1	2.19	0.40
1:S:227:ASP:O	1:S:675:LEU:HB2	2.22	0.40
1:T:227:ASP:O	1:T:675:LEU:HB2	2.21	0.40
1:T:441:THR:HG21	1:d:483:ARG:O	2.21	0.40
1:T:467:GLY:HA3	1:T:596:TRP:HB3	2.04	0.40
1:T:528:ILE:HD13	1:l:449:PHE:CE1	2.56	0.40
1:T:613:GLU:HG2	1:l:722:ARG:HH21	1.87	0.40
1:U:305:LYS:HB3	1:U:668:THR:HG22	2.04	0.40
1:U:356:PHE:HA	1:U:357:PRO:HD3	1.95	0.40
1:U:422:ASN:HA	1:U:557:PRO:HB3	2.02	0.40
1:U:475:TRP:HH2	1:U:486:VAL:HG11	1.86	0.40
1:U:707:GLY:HA2	1:e:247:TYR:O	2.22	0.40
1:V:406:TYR:OH	1:V:631:HIS:O	2.30	0.40
1:W:227:ASP:O	1:W:675:LEU:HB2	2.22	0.40
1:Y:306:ILE:HD11	1:Y:636:MET:SD	2.61	0.40
1:Y:707:GLY:HA2	1:4:247:TYR:O	2.22	0.40
1:Z:528:ILE:HD13	1:3:449:PHE:CE1	2.57	0.40
1:a:449:PHE:CE1	1:8:528:ILE:HD13	2.57	0.40
1:b:227:ASP:O	1:b:675:LEU:HB2	2.22	0.40
1:b:277:ARG:NE	1:b:279:HIS:HE1	2.20	0.40
1:b:467:GLY:HA3	1:b:596:TRP:HB3	2.04	0.40
1:b:707:GLY:HA2	1:o:247:TYR:O	2.22	0.40
1:c:449:PHE:CE1	1:o:528:ILE:HD13	2.57	0.40
1:d:422:ASN:HA	1:d:557:PRO:HB3	2.02	0.40
1:d:722:ARG:HH21	1:l:613:GLU:HG2	1.87	0.40
1:e:332:GLN:O	1:e:638:ILE:HA	2.20	0.40
1:e:475:TRP:HH2	1:e:486:VAL:HG11	1.86	0.40
1:f:277:ARG:NE	1:f:279:HIS:HE1	2.20	0.40
1:f:422:ASN:HA	1:f:557:PRO:HB3	2.02	0.40
1:f:467:GLY:HA3	1:f:596:TRP:HB3	2.04	0.40
1:g:397:ARG:CG	1:g:398:THR:H	2.32	0.40
1:g:423:LEU:HD12	1:g:558:VAL:HG13	2.03	0.40
1:g:707:GLY:HA2	1:1:247:TYR:O	2.22	0.40
1:h:423:LEU:HD12	1:h:558:VAL:HG13	2.03	0.40
1:i:314:VAL:HG13	1:i:660:THR:HG23	2.03	0.40
1:i:423:LEU:HD12	1:i:558:VAL:HG13	2.03	0.40
1:j:247:TYR:O	1:l:707:GLY:HA2	2.22	0.40
1:l:423:LEU:HD12	1:l:558:VAL:HG13	2.03	0.40
1:l:516:GLN:HB2	1:l:556:GLN:NE2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:214:ALA:H	1:s:400:ASN:ND2	2.19	0.40
1:n:306:ILE:HD11	1:n:636:MET:SD	2.61	0.40
1:n:423:LEU:HD12	1:n:558:VAL:HG13	2.03	0.40
1:o:356:PHE:HA	1:o:357:PRO:HD3	1.95	0.40
1:o:420:SER:N	1:o:722:ARG:O	2.51	0.40
1:o:476:ASN:OD1	1:o:520:THR:OG1	2.26	0.40
1:q:707:GLY:HA2	1:y:247:TYR:O	2.22	0.40
1:s:277:ARG:NE	1:s:279:HIS:HE1	2.19	0.40
1:t:214:ALA:H	1:6:400:ASN:ND2	2.19	0.40
1:t:305:LYS:HB3	1:t:668:THR:HG22	2.04	0.40
1:t:421:GLN:NE2	1:u:342:PRO:HB3	2.34	0.40
1:t:507:GLN:HB2	1:t:525:ASN:OD1	2.20	0.40
1:w:420:SER:N	1:w:722:ARG:O	2.51	0.40
1:x:423:LEU:HD12	1:x:558:VAL:HG13	2.03	0.40
1:x:516:GLN:HB2	1:x:556:GLN:NE2	2.37	0.40
1:1:306:ILE:HD11	1:1:636:MET:SD	2.61	0.40
1:1:314:VAL:HG13	1:1:660:THR:HG23	2.03	0.40
1:1:422:ASN:HA	1:1:557:PRO:HB3	2.02	0.40
1:3:305:LYS:HB3	1:3:668:THR:HG22	2.04	0.40
1:3:391:PHE:N	1:3:391:PHE:CD1	2.88	0.40
1:3:404:PHE:CZ	1:3:634:PRO:HG2	2.57	0.40
1:4:475:TRP:HH2	1:4:486:VAL:HG11	1.86	0.40
1:4:682:ARG:HD3	1:4:686:GLU:HG3	2.02	0.40
1:5:227:ASP:O	1:5:675:LEU:HB2	2.22	0.40
1:5:334:PHE:CE1	1:5:391:PHE:HD2	2.38	0.40
1:5:356:PHE:HA	1:5:357:PRO:HD3	1.95	0.40
1:5:422:ASN:HA	1:5:557:PRO:HB3	2.02	0.40
1:5:483:ARG:O	1:7:441:THR:HG21	2.22	0.40
1:6:423:LEU:HD12	1:6:558:VAL:HG13	2.03	0.40
1:6:467:GLY:HA3	1:6:596:TRP:HB3	2.04	0.40
1:8:397:ARG:HG2	1:8:398:THR:N	2.32	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	2	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	3	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	4	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	5	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	6	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	7	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	8	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	A	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	B	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	C	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	D	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	E	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	F	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	G	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	H	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	I	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	J	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	K	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	L	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	M	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	N	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	O	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	P	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	Q	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	R	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	S	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	T	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	U	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	V	521/724 (72%)	507 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	W	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	X	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	Y	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	Z	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	a	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	b	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	c	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	d	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	e	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	f	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	g	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	h	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	i	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	j	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	k	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	l	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	m	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	n	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	o	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	p	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	q	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	r	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	s	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	t	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	u	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	v	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	w	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	x	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	y	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
1	z	521/724 (72%)	507 (97%)	14 (3%)	0	100	100
All	All	31260/43440 (72%)	30420 (97%)	840 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	2	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	3	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	4	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	5	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	6	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	7	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	8	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	A	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	B	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	C	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	D	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	E	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	F	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	G	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	H	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	I	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	J	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	K	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	L	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	M	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	N	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	O	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	P	455/613 (74%)	454 (100%)	1 (0%)	87	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Q	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	R	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	S	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	T	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	U	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	V	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	W	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	X	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	Y	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	Z	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	a	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	b	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	c	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	d	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	e	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	f	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	g	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	h	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	i	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	j	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	k	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	l	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	m	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	n	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	o	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	p	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	q	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	r	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	s	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	t	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	u	455/613 (74%)	454 (100%)	1 (0%)	87	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	v	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	w	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	x	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	y	455/613 (74%)	454 (100%)	1 (0%)	87	88
1	z	455/613 (74%)	454 (100%)	1 (0%)	87	88
All	All	27300/36780 (74%)	27240 (100%)	60 (0%)	85	88

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

Mol	Chain	Res	Type
1	A	206	GLN
1	B	206	GLN
1	C	206	GLN
1	D	206	GLN
1	E	206	GLN
1	F	206	GLN
1	G	206	GLN
1	H	206	GLN
1	I	206	GLN
1	J	206	GLN
1	K	206	GLN
1	L	206	GLN
1	M	206	GLN
1	N	206	GLN
1	O	206	GLN
1	P	206	GLN
1	Q	206	GLN
1	R	206	GLN
1	S	206	GLN
1	T	206	GLN
1	U	206	GLN
1	V	206	GLN
1	W	206	GLN
1	X	206	GLN
1	Y	206	GLN
1	Z	206	GLN
1	a	206	GLN
1	b	206	GLN
1	c	206	GLN
1	d	206	GLN

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Mol	Chain	Res	Type
1	e	206	GLN
1	f	206	GLN
1	g	206	GLN
1	h	206	GLN
1	i	206	GLN
1	j	206	GLN
1	k	206	GLN
1	l	206	GLN
1	m	206	GLN
1	n	206	GLN
1	o	206	GLN
1	p	206	GLN
1	q	206	GLN
1	r	206	GLN
1	s	206	GLN
1	t	206	GLN
1	u	206	GLN
1	v	206	GLN
1	w	206	GLN
1	x	206	GLN
1	y	206	GLN
1	z	206	GLN
1	1	206	GLN
1	2	206	GLN
1	3	206	GLN
1	4	206	GLN
1	5	206	GLN
1	6	206	GLN
1	7	206	GLN
1	8	206	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (860) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	213	ASN
1	A	261	ASN
1	A	281	HIS
1	A	292	ASN
1	A	378	ASN
1	A	400	ASN
1	A	421	GLN
1	A	473	GLN

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Mol	Chain	Res	Type
1	A	503	GLN
1	A	509	ASN
1	A	516	GLN
1	A	564	ASN
1	A	574	GLN
1	A	617	HIS
1	A	631	HIS
1	A	692	ASN
1	B	261	ASN
1	B	281	HIS
1	B	292	ASN
1	B	378	ASN
1	B	400	ASN
1	B	421	GLN
1	B	473	GLN
1	B	509	ASN
1	B	516	GLN
1	B	564	ASN
1	B	574	GLN
1	B	617	HIS
1	B	631	HIS
1	B	692	ASN
1	C	261	ASN
1	C	281	HIS
1	C	292	ASN
1	C	378	ASN
1	C	400	ASN
1	C	421	GLN
1	C	473	GLN
1	C	509	ASN
1	C	516	GLN
1	C	564	ASN
1	C	574	GLN
1	C	617	HIS
1	C	631	HIS
1	C	692	ASN
1	D	261	ASN
1	D	281	HIS
1	D	292	ASN
1	D	378	ASN
1	D	400	ASN
1	D	421	GLN

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Mol	Chain	Res	Type
1	D	473	GLN
1	D	503	GLN
1	D	509	ASN
1	D	516	GLN
1	D	564	ASN
1	D	574	GLN
1	D	617	HIS
1	D	631	HIS
1	D	692	ASN
1	E	261	ASN
1	E	279	HIS
1	E	281	HIS
1	E	292	ASN
1	E	400	ASN
1	E	421	GLN
1	E	473	GLN
1	E	503	GLN
1	E	509	ASN
1	E	516	GLN
1	E	564	ASN
1	E	574	GLN
1	E	617	HIS
1	E	631	HIS
1	E	692	ASN
1	F	261	ASN
1	F	281	HIS
1	F	292	ASN
1	F	400	ASN
1	F	421	GLN
1	F	473	GLN
1	F	509	ASN
1	F	516	GLN
1	F	564	ASN
1	F	574	GLN
1	F	617	HIS
1	F	631	HIS
1	F	692	ASN
1	G	261	ASN
1	G	281	HIS
1	G	292	ASN
1	G	400	ASN
1	G	421	GLN

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Mol	Chain	Res	Type
1	G	473	GLN
1	G	509	ASN
1	G	516	GLN
1	G	564	ASN
1	G	574	GLN
1	G	617	HIS
1	G	631	HIS
1	G	692	ASN
1	H	261	ASN
1	H	281	HIS
1	H	292	ASN
1	H	378	ASN
1	H	400	ASN
1	H	421	GLN
1	H	473	GLN
1	H	503	GLN
1	H	509	ASN
1	H	516	GLN
1	H	564	ASN
1	H	574	GLN
1	H	617	HIS
1	H	631	HIS
1	H	692	ASN
1	I	261	ASN
1	I	281	HIS
1	I	292	ASN
1	I	378	ASN
1	I	400	ASN
1	I	421	GLN
1	I	473	GLN
1	I	503	GLN
1	I	509	ASN
1	I	516	GLN
1	I	564	ASN
1	I	574	GLN
1	I	617	HIS
1	I	631	HIS
1	I	692	ASN
1	J	261	ASN
1	J	281	HIS
1	J	292	ASN
1	J	400	ASN

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Mol	Chain	Res	Type
1	J	421	GLN
1	J	473	GLN
1	J	509	ASN
1	J	516	GLN
1	J	564	ASN
1	J	574	GLN
1	J	617	HIS
1	J	631	HIS
1	J	692	ASN
1	K	281	HIS
1	K	292	ASN
1	K	400	ASN
1	K	421	GLN
1	K	473	GLN
1	K	509	ASN
1	K	516	GLN
1	K	564	ASN
1	K	574	GLN
1	K	617	HIS
1	K	631	HIS
1	K	692	ASN
1	L	261	ASN
1	L	281	HIS
1	L	292	ASN
1	L	378	ASN
1	L	400	ASN
1	L	421	GLN
1	L	473	GLN
1	L	503	GLN
1	L	509	ASN
1	L	516	GLN
1	L	564	ASN
1	L	574	GLN
1	L	617	HIS
1	L	631	HIS
1	L	692	ASN
1	M	261	ASN
1	M	279	HIS
1	M	281	HIS
1	M	292	ASN
1	M	378	ASN
1	M	400	ASN

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Mol	Chain	Res	Type
1	M	421	GLN
1	M	473	GLN
1	M	503	GLN
1	M	509	ASN
1	M	516	GLN
1	M	564	ASN
1	M	574	GLN
1	M	617	HIS
1	M	631	HIS
1	M	692	ASN
1	N	261	ASN
1	N	281	HIS
1	N	292	ASN
1	N	378	ASN
1	N	400	ASN
1	N	421	GLN
1	N	473	GLN
1	N	503	GLN
1	N	509	ASN
1	N	516	GLN
1	N	564	ASN
1	N	574	GLN
1	N	617	HIS
1	N	631	HIS
1	N	692	ASN
1	O	261	ASN
1	O	281	HIS
1	O	292	ASN
1	O	400	ASN
1	O	421	GLN
1	O	473	GLN
1	O	503	GLN
1	O	509	ASN
1	O	516	GLN
1	O	564	ASN
1	O	574	GLN
1	O	617	HIS
1	O	631	HIS
1	O	692	ASN
1	P	261	ASN
1	P	281	HIS
1	P	292	ASN

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Mol	Chain	Res	Type
1	P	378	ASN
1	P	400	ASN
1	P	421	GLN
1	P	473	GLN
1	P	503	GLN
1	P	509	ASN
1	P	516	GLN
1	P	564	ASN
1	P	574	GLN
1	P	617	HIS
1	P	631	HIS
1	P	692	ASN
1	Q	261	ASN
1	Q	279	HIS
1	Q	281	HIS
1	Q	292	ASN
1	Q	400	ASN
1	Q	421	GLN
1	Q	473	GLN
1	Q	503	GLN
1	Q	509	ASN
1	Q	516	GLN
1	Q	564	ASN
1	Q	574	GLN
1	Q	617	HIS
1	Q	631	HIS
1	Q	692	ASN
1	R	261	ASN
1	R	281	HIS
1	R	292	ASN
1	R	378	ASN
1	R	400	ASN
1	R	421	GLN
1	R	473	GLN
1	R	503	GLN
1	R	509	ASN
1	R	516	GLN
1	R	564	ASN
1	R	574	GLN
1	R	617	HIS
1	R	631	HIS
1	R	692	ASN

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Mol	Chain	Res	Type
1	S	261	ASN
1	S	281	HIS
1	S	292	ASN
1	S	378	ASN
1	S	400	ASN
1	S	421	GLN
1	S	473	GLN
1	S	503	GLN
1	S	509	ASN
1	S	516	GLN
1	S	564	ASN
1	S	574	GLN
1	S	617	HIS
1	S	631	HIS
1	S	692	ASN
1	T	261	ASN
1	T	281	HIS
1	T	292	ASN
1	T	378	ASN
1	T	400	ASN
1	T	421	GLN
1	T	473	GLN
1	T	503	GLN
1	T	509	ASN
1	T	516	GLN
1	T	564	ASN
1	T	574	GLN
1	T	617	HIS
1	T	631	HIS
1	T	692	ASN
1	U	261	ASN
1	U	281	HIS
1	U	292	ASN
1	U	378	ASN
1	U	400	ASN
1	U	421	GLN
1	U	473	GLN
1	U	503	GLN
1	U	509	ASN
1	U	516	GLN
1	U	564	ASN
1	U	574	GLN

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Mol	Chain	Res	Type
1	U	617	HIS
1	U	631	HIS
1	U	692	ASN
1	V	261	ASN
1	V	279	HIS
1	V	281	HIS
1	V	292	ASN
1	V	400	ASN
1	V	421	GLN
1	V	473	GLN
1	V	509	ASN
1	V	516	GLN
1	V	564	ASN
1	V	574	GLN
1	V	617	HIS
1	V	631	HIS
1	V	692	ASN
1	W	261	ASN
1	W	281	HIS
1	W	292	ASN
1	W	400	ASN
1	W	421	GLN
1	W	473	GLN
1	W	503	GLN
1	W	509	ASN
1	W	516	GLN
1	W	564	ASN
1	W	574	GLN
1	W	617	HIS
1	W	631	HIS
1	W	692	ASN
1	X	261	ASN
1	X	281	HIS
1	X	292	ASN
1	X	378	ASN
1	X	400	ASN
1	X	421	GLN
1	X	473	GLN
1	X	509	ASN
1	X	516	GLN
1	X	564	ASN
1	X	574	GLN

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Mol	Chain	Res	Type
1	X	617	HIS
1	X	631	HIS
1	X	692	ASN
1	Y	261	ASN
1	Y	281	HIS
1	Y	292	ASN
1	Y	400	ASN
1	Y	421	GLN
1	Y	473	GLN
1	Y	503	GLN
1	Y	509	ASN
1	Y	516	GLN
1	Y	564	ASN
1	Y	574	GLN
1	Y	617	HIS
1	Y	631	HIS
1	Y	692	ASN
1	Z	213	ASN
1	Z	261	ASN
1	Z	279	HIS
1	Z	281	HIS
1	Z	292	ASN
1	Z	400	ASN
1	Z	421	GLN
1	Z	473	GLN
1	Z	509	ASN
1	Z	516	GLN
1	Z	564	ASN
1	Z	574	GLN
1	Z	617	HIS
1	Z	631	HIS
1	Z	692	ASN
1	a	261	ASN
1	a	281	HIS
1	a	292	ASN
1	a	378	ASN
1	a	400	ASN
1	a	421	GLN
1	a	473	GLN
1	a	503	GLN
1	a	509	ASN
1	a	516	GLN

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Mol	Chain	Res	Type
1	a	564	ASN
1	a	574	GLN
1	a	617	HIS
1	a	631	HIS
1	a	692	ASN
1	b	261	ASN
1	b	279	HIS
1	b	281	HIS
1	b	292	ASN
1	b	400	ASN
1	b	421	GLN
1	b	473	GLN
1	b	503	GLN
1	b	509	ASN
1	b	516	GLN
1	b	564	ASN
1	b	574	GLN
1	b	617	HIS
1	b	631	HIS
1	b	692	ASN
1	c	261	ASN
1	c	281	HIS
1	c	292	ASN
1	c	378	ASN
1	c	400	ASN
1	c	421	GLN
1	c	473	GLN
1	c	509	ASN
1	c	516	GLN
1	c	564	ASN
1	c	574	GLN
1	c	617	HIS
1	c	631	HIS
1	c	692	ASN
1	d	261	ASN
1	d	281	HIS
1	d	292	ASN
1	d	400	ASN
1	d	421	GLN
1	d	473	GLN
1	d	509	ASN
1	d	516	GLN

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Mol	Chain	Res	Type
1	d	564	ASN
1	d	574	GLN
1	d	617	HIS
1	d	631	HIS
1	d	692	ASN
1	e	261	ASN
1	e	279	HIS
1	e	281	HIS
1	e	292	ASN
1	e	378	ASN
1	e	400	ASN
1	e	421	GLN
1	e	473	GLN
1	e	509	ASN
1	e	516	GLN
1	e	564	ASN
1	e	574	GLN
1	e	617	HIS
1	e	631	HIS
1	e	692	ASN
1	f	279	HIS
1	f	281	HIS
1	f	292	ASN
1	f	400	ASN
1	f	421	GLN
1	f	473	GLN
1	f	503	GLN
1	f	509	ASN
1	f	516	GLN
1	f	564	ASN
1	f	574	GLN
1	f	617	HIS
1	f	631	HIS
1	f	692	ASN
1	g	261	ASN
1	g	281	HIS
1	g	292	ASN
1	g	400	ASN
1	g	421	GLN
1	g	473	GLN
1	g	503	GLN
1	g	509	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	g	516	GLN
1	g	564	ASN
1	g	574	GLN
1	g	617	HIS
1	g	631	HIS
1	g	692	ASN
1	h	261	ASN
1	h	279	HIS
1	h	281	HIS
1	h	292	ASN
1	h	378	ASN
1	h	400	ASN
1	h	421	GLN
1	h	473	GLN
1	h	503	GLN
1	h	509	ASN
1	h	516	GLN
1	h	564	ASN
1	h	574	GLN
1	h	617	HIS
1	h	631	HIS
1	h	692	ASN
1	i	261	ASN
1	i	281	HIS
1	i	292	ASN
1	i	378	ASN
1	i	400	ASN
1	i	421	GLN
1	i	473	GLN
1	i	503	GLN
1	i	509	ASN
1	i	516	GLN
1	i	564	ASN
1	i	574	GLN
1	i	617	HIS
1	i	631	HIS
1	i	692	ASN
1	j	261	ASN
1	j	281	HIS
1	j	292	ASN
1	j	378	ASN
1	j	400	ASN

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Mol	Chain	Res	Type
1	j	421	GLN
1	j	473	GLN
1	j	503	GLN
1	j	509	ASN
1	j	516	GLN
1	j	564	ASN
1	j	574	GLN
1	j	617	HIS
1	j	631	HIS
1	j	692	ASN
1	k	261	ASN
1	k	281	HIS
1	k	292	ASN
1	k	378	ASN
1	k	400	ASN
1	k	421	GLN
1	k	473	GLN
1	k	503	GLN
1	k	509	ASN
1	k	516	GLN
1	k	564	ASN
1	k	574	GLN
1	k	617	HIS
1	k	631	HIS
1	k	692	ASN
1	l	261	ASN
1	l	281	HIS
1	l	292	ASN
1	l	400	ASN
1	l	421	GLN
1	l	473	GLN
1	l	503	GLN
1	l	509	ASN
1	l	516	GLN
1	l	564	ASN
1	l	574	GLN
1	l	617	HIS
1	l	631	HIS
1	l	692	ASN
1	m	261	ASN
1	m	281	HIS
1	m	292	ASN

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Mol	Chain	Res	Type
1	m	378	ASN
1	m	400	ASN
1	m	421	GLN
1	m	473	GLN
1	m	503	GLN
1	m	509	ASN
1	m	516	GLN
1	m	564	ASN
1	m	574	GLN
1	m	617	HIS
1	m	631	HIS
1	m	692	ASN
1	n	261	ASN
1	n	281	HIS
1	n	292	ASN
1	n	400	ASN
1	n	421	GLN
1	n	473	GLN
1	n	509	ASN
1	n	516	GLN
1	n	564	ASN
1	n	574	GLN
1	n	617	HIS
1	n	631	HIS
1	n	692	ASN
1	o	261	ASN
1	o	281	HIS
1	o	292	ASN
1	o	378	ASN
1	o	400	ASN
1	o	421	GLN
1	o	473	GLN
1	o	509	ASN
1	o	516	GLN
1	o	564	ASN
1	o	574	GLN
1	o	617	HIS
1	o	631	HIS
1	o	692	ASN
1	p	261	ASN
1	p	279	HIS
1	p	281	HIS

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Mol	Chain	Res	Type
1	p	292	ASN
1	p	400	ASN
1	p	421	GLN
1	p	473	GLN
1	p	509	ASN
1	p	516	GLN
1	p	564	ASN
1	p	574	GLN
1	p	617	HIS
1	p	631	HIS
1	p	692	ASN
1	q	261	ASN
1	q	281	HIS
1	q	292	ASN
1	q	400	ASN
1	q	421	GLN
1	q	473	GLN
1	q	509	ASN
1	q	516	GLN
1	q	564	ASN
1	q	574	GLN
1	q	617	HIS
1	q	631	HIS
1	q	692	ASN
1	r	261	ASN
1	r	281	HIS
1	r	292	ASN
1	r	378	ASN
1	r	400	ASN
1	r	421	GLN
1	r	473	GLN
1	r	503	GLN
1	r	509	ASN
1	r	516	GLN
1	r	564	ASN
1	r	574	GLN
1	r	617	HIS
1	r	631	HIS
1	r	692	ASN
1	s	279	HIS
1	s	281	HIS
1	s	292	ASN

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Mol	Chain	Res	Type
1	s	378	ASN
1	s	400	ASN
1	s	421	GLN
1	s	473	GLN
1	s	509	ASN
1	s	516	GLN
1	s	564	ASN
1	s	574	GLN
1	s	617	HIS
1	s	631	HIS
1	s	692	ASN
1	t	261	ASN
1	t	281	HIS
1	t	292	ASN
1	t	400	ASN
1	t	421	GLN
1	t	473	GLN
1	t	503	GLN
1	t	509	ASN
1	t	516	GLN
1	t	564	ASN
1	t	574	GLN
1	t	617	HIS
1	t	631	HIS
1	t	692	ASN
1	u	261	ASN
1	u	281	HIS
1	u	292	ASN
1	u	378	ASN
1	u	400	ASN
1	u	421	GLN
1	u	473	GLN
1	u	503	GLN
1	u	509	ASN
1	u	516	GLN
1	u	564	ASN
1	u	574	GLN
1	u	617	HIS
1	u	631	HIS
1	u	692	ASN
1	v	261	ASN
1	v	281	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	v	292	ASN
1	v	378	ASN
1	v	400	ASN
1	v	421	GLN
1	v	473	GLN
1	v	503	GLN
1	v	509	ASN
1	v	516	GLN
1	v	564	ASN
1	v	574	GLN
1	v	617	HIS
1	v	631	HIS
1	v	692	ASN
1	w	281	HIS
1	w	292	ASN
1	w	400	ASN
1	w	421	GLN
1	w	473	GLN
1	w	503	GLN
1	w	509	ASN
1	w	516	GLN
1	w	564	ASN
1	w	574	GLN
1	w	617	HIS
1	w	631	HIS
1	w	692	ASN
1	x	261	ASN
1	x	281	HIS
1	x	292	ASN
1	x	400	ASN
1	x	421	GLN
1	x	473	GLN
1	x	503	GLN
1	x	509	ASN
1	x	516	GLN
1	x	564	ASN
1	x	574	GLN
1	x	617	HIS
1	x	631	HIS
1	x	692	ASN
1	y	261	ASN
1	y	281	HIS

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Mol	Chain	Res	Type
1	y	292	ASN
1	y	400	ASN
1	y	421	GLN
1	y	473	GLN
1	y	509	ASN
1	y	516	GLN
1	y	564	ASN
1	y	574	GLN
1	y	617	HIS
1	y	631	HIS
1	y	692	ASN
1	z	281	HIS
1	z	292	ASN
1	z	378	ASN
1	z	400	ASN
1	z	421	GLN
1	z	473	GLN
1	z	503	GLN
1	z	509	ASN
1	z	516	GLN
1	z	564	ASN
1	z	574	GLN
1	z	617	HIS
1	z	631	HIS
1	z	692	ASN
1	1	261	ASN
1	1	281	HIS
1	1	292	ASN
1	1	378	ASN
1	1	400	ASN
1	1	421	GLN
1	1	473	GLN
1	1	509	ASN
1	1	516	GLN
1	1	564	ASN
1	1	574	GLN
1	1	617	HIS
1	1	631	HIS
1	1	692	ASN
1	2	261	ASN
1	2	281	HIS
1	2	292	ASN

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Mol	Chain	Res	Type
1	2	400	ASN
1	2	421	GLN
1	2	473	GLN
1	2	509	ASN
1	2	516	GLN
1	2	564	ASN
1	2	574	GLN
1	2	617	HIS
1	2	631	HIS
1	2	692	ASN
1	3	261	ASN
1	3	281	HIS
1	3	292	ASN
1	3	378	ASN
1	3	400	ASN
1	3	421	GLN
1	3	473	GLN
1	3	503	GLN
1	3	509	ASN
1	3	516	GLN
1	3	564	ASN
1	3	574	GLN
1	3	617	HIS
1	3	631	HIS
1	3	692	ASN
1	4	261	ASN
1	4	281	HIS
1	4	292	ASN
1	4	378	ASN
1	4	400	ASN
1	4	421	GLN
1	4	473	GLN
1	4	503	GLN
1	4	509	ASN
1	4	516	GLN
1	4	564	ASN
1	4	574	GLN
1	4	617	HIS
1	4	631	HIS
1	4	692	ASN
1	5	261	ASN
1	5	281	HIS

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Mol	Chain	Res	Type
1	5	292	ASN
1	5	400	ASN
1	5	421	GLN
1	5	473	GLN
1	5	503	GLN
1	5	509	ASN
1	5	516	GLN
1	5	564	ASN
1	5	574	GLN
1	5	617	HIS
1	5	631	HIS
1	5	692	ASN
1	6	261	ASN
1	6	281	HIS
1	6	292	ASN
1	6	400	ASN
1	6	421	GLN
1	6	473	GLN
1	6	503	GLN
1	6	509	ASN
1	6	516	GLN
1	6	564	ASN
1	6	574	GLN
1	6	617	HIS
1	6	631	HIS
1	6	692	ASN
1	7	261	ASN
1	7	281	HIS
1	7	292	ASN
1	7	400	ASN
1	7	421	GLN
1	7	473	GLN
1	7	503	GLN
1	7	509	ASN
1	7	516	GLN
1	7	564	ASN
1	7	574	GLN
1	7	617	HIS
1	7	631	HIS
1	7	692	ASN
1	8	261	ASN
1	8	279	HIS

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Mol	Chain	Res	Type
1	8	281	HIS
1	8	292	ASN
1	8	400	ASN
1	8	421	GLN
1	8	473	GLN
1	8	509	ASN
1	8	516	GLN
1	8	564	ASN
1	8	574	GLN
1	8	617	HIS
1	8	631	HIS
1	8	692	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

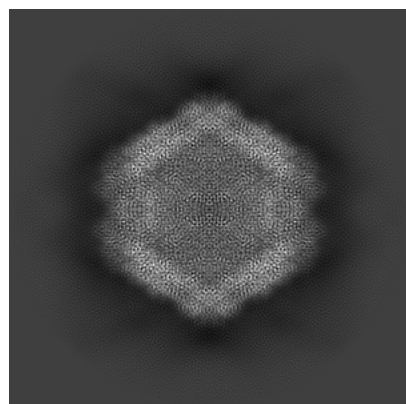
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-46745. These allow visual inspection of the internal detail of the map and identification of artifacts.

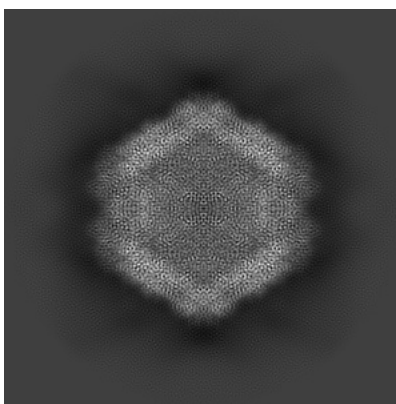
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

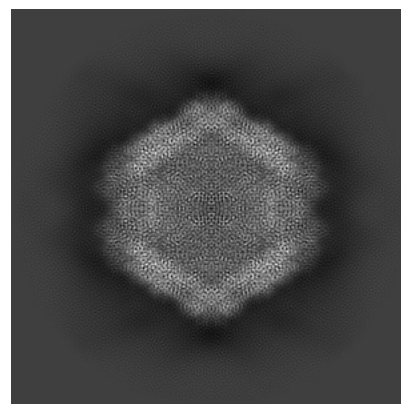
6.1.1 Primary map



X

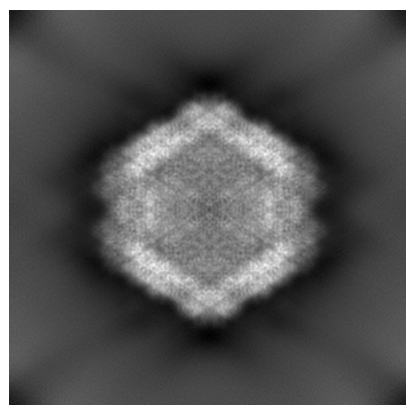


Y

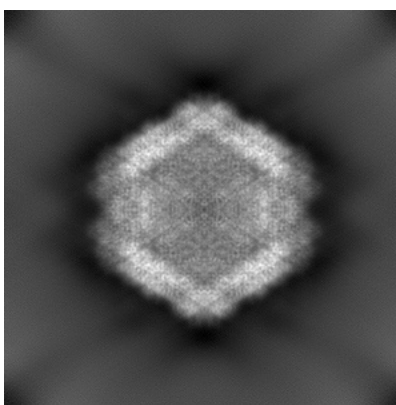


Z

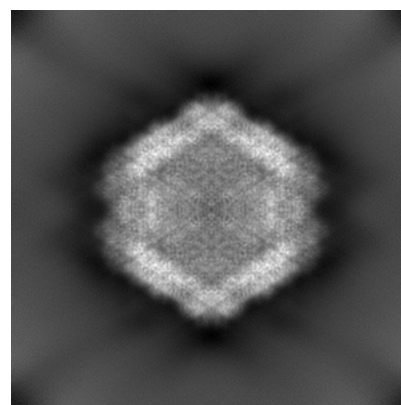
6.1.2 Raw map



X



Y

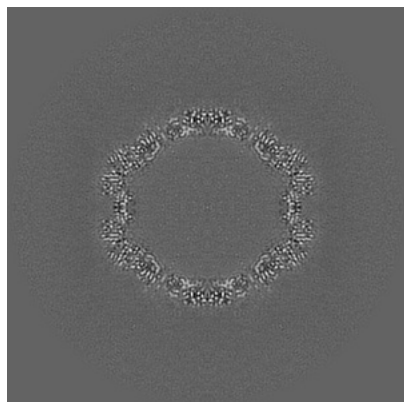


Z

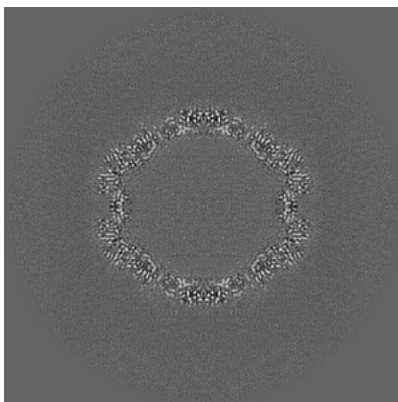
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

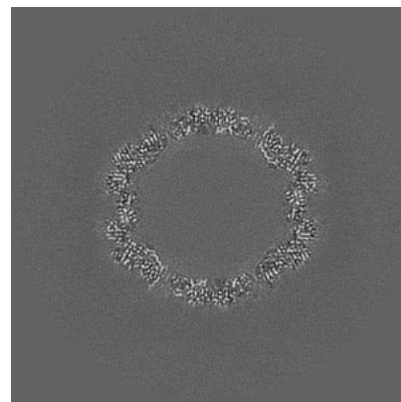
6.2.1 Primary map



X Index: 250

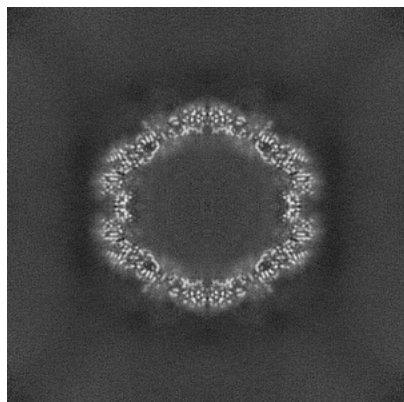


Y Index: 250

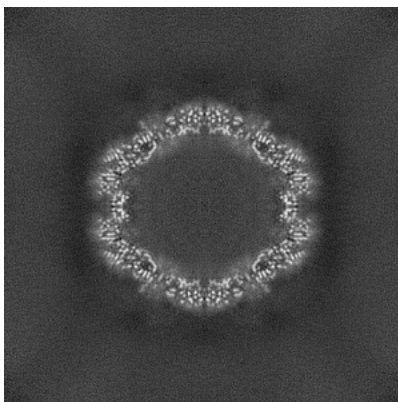


Z Index: 250

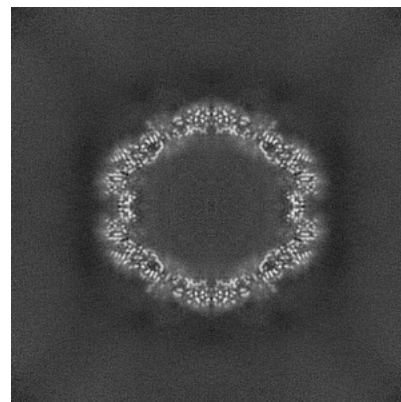
6.2.2 Raw map



X Index: 250



Y Index: 250

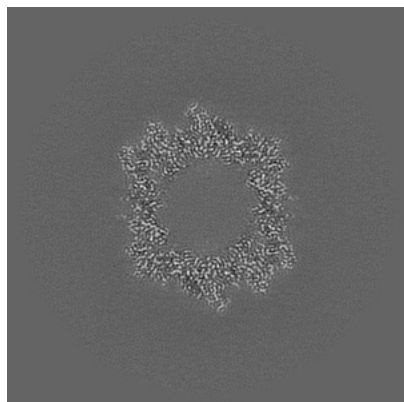


Z Index: 250

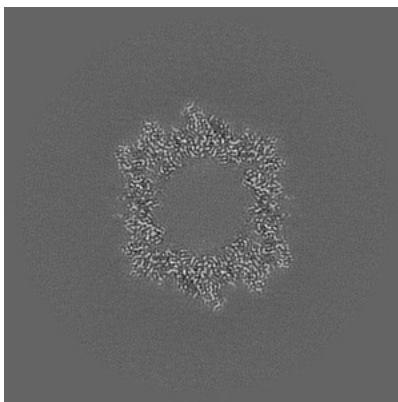
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

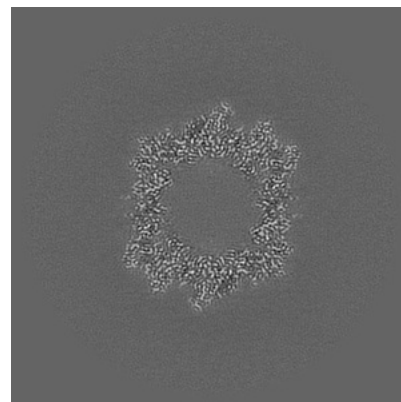
6.3.1 Primary map



X Index: 180

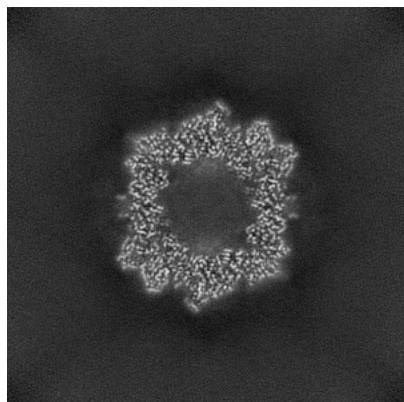


Y Index: 180

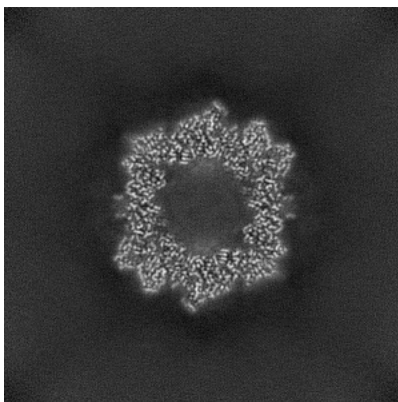


Z Index: 319

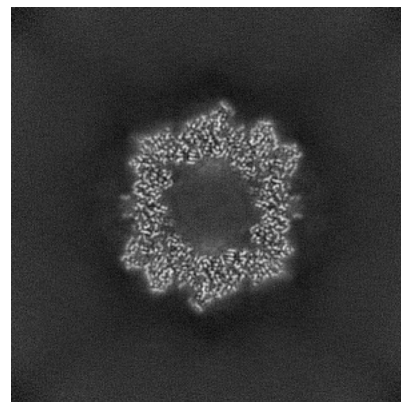
6.3.2 Raw map



X Index: 179



Y Index: 179

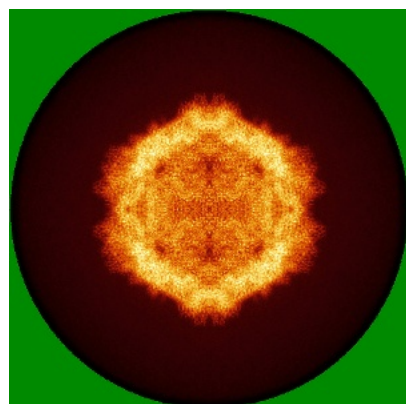


Z Index: 179

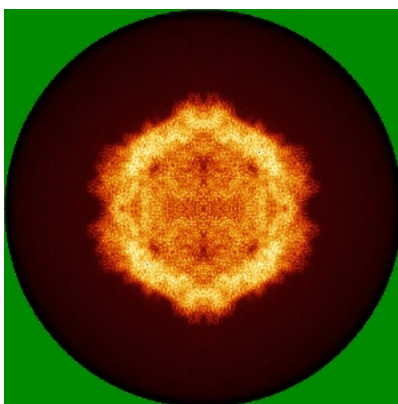
The images above show the largest variance slices of the map in three orthogonal directions.

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

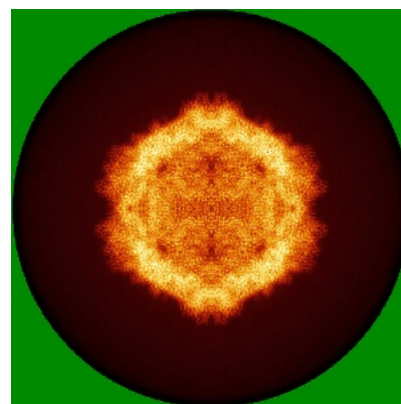
6.4.1 Primary map



X

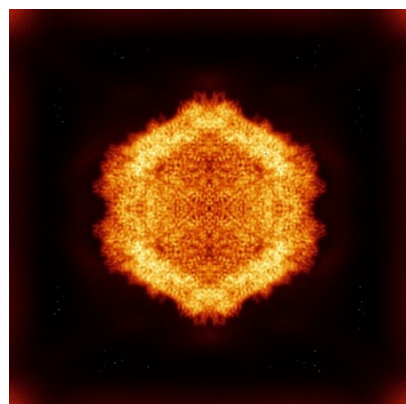


Y

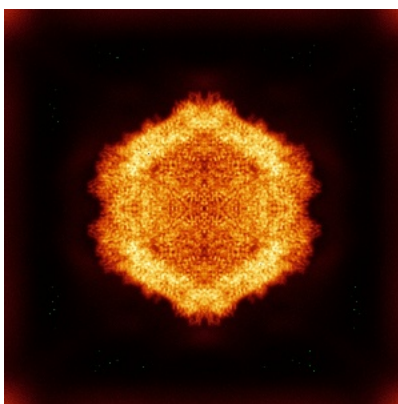


Z

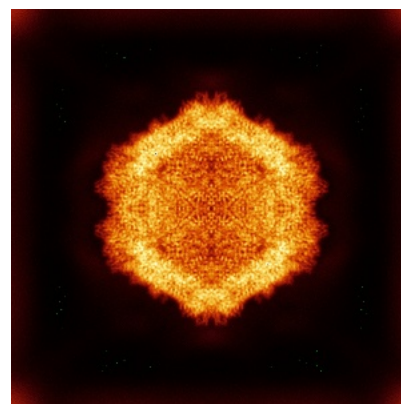
6.4.2 Raw map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



Y



Z

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

6.5.2 Raw map



X



Y



Z

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

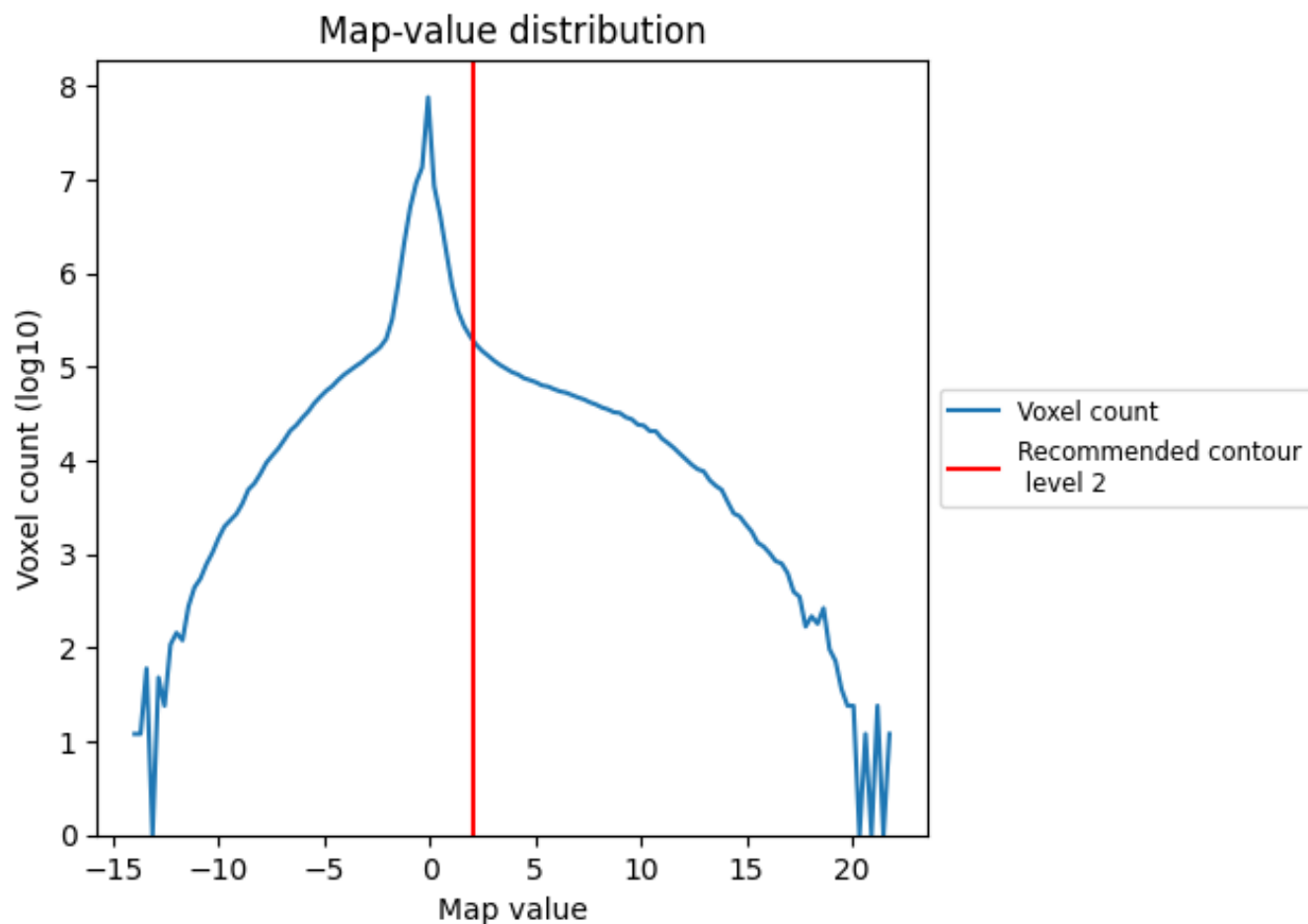
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

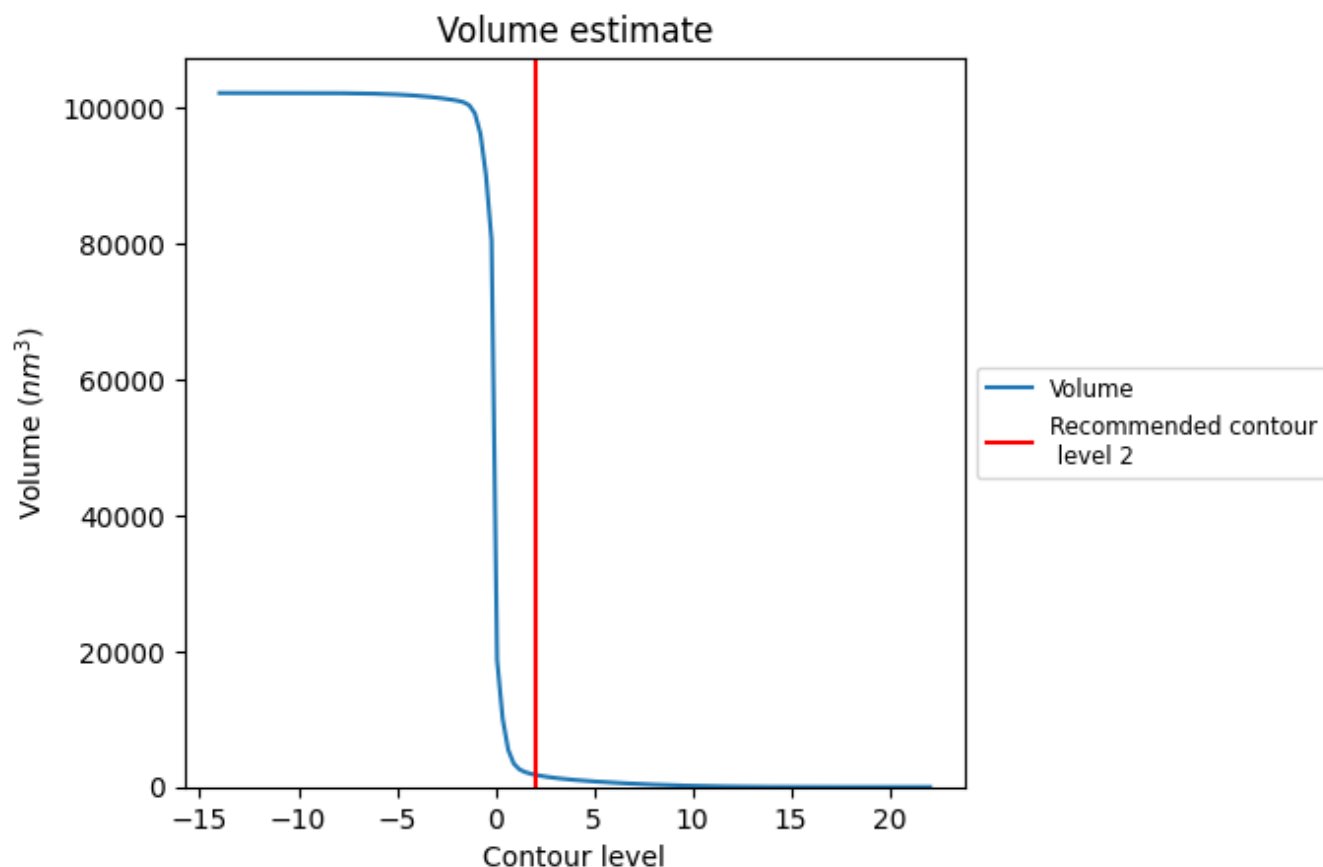
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

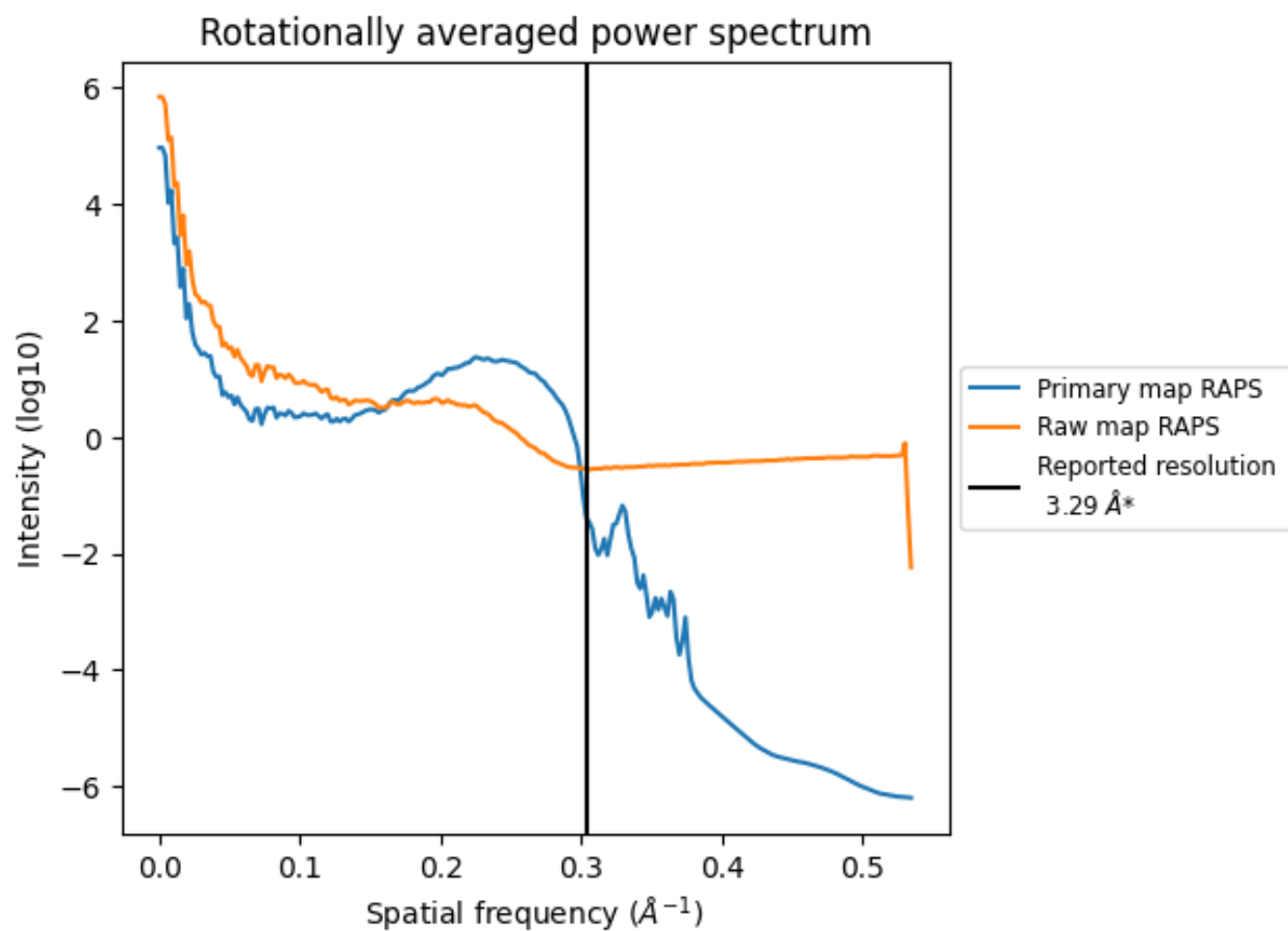
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1803 nm³; this corresponds to an approximate mass of 1629 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

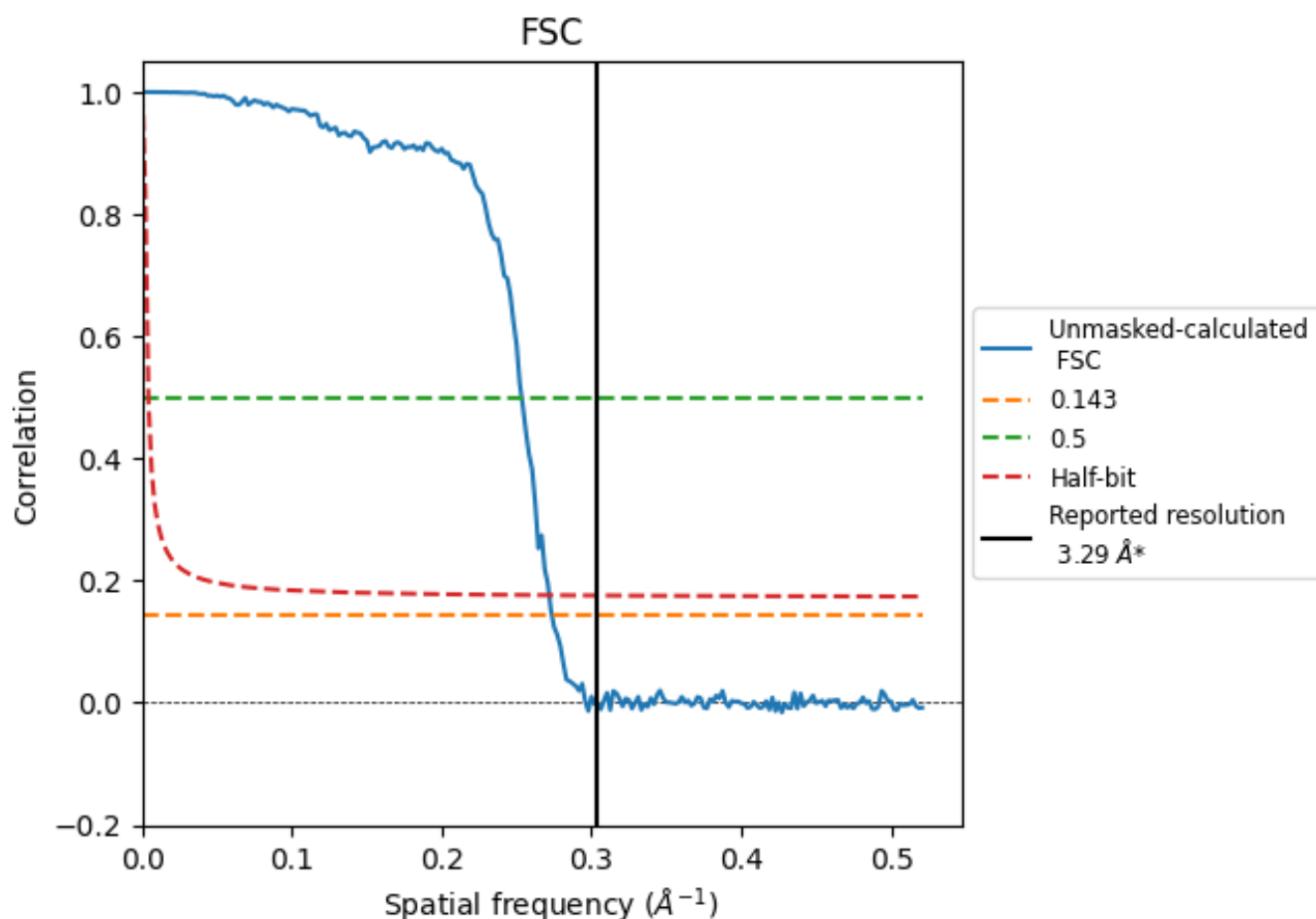


*Reported resolution corresponds to spatial frequency of 0.304 Å⁻¹

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of $0.304 \text{ \AA}^{-1}$

8.2 Resolution estimates [i](#)

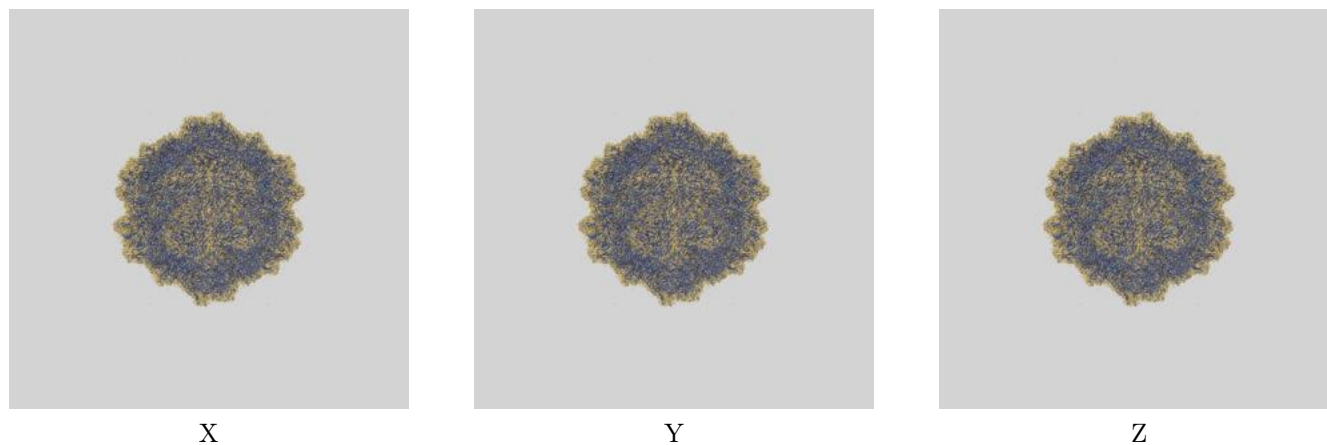
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.29	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.65	3.95	3.68

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.65 differs from the reported value 3.29 by more than 10 %

9 Map-model fit [i](#)

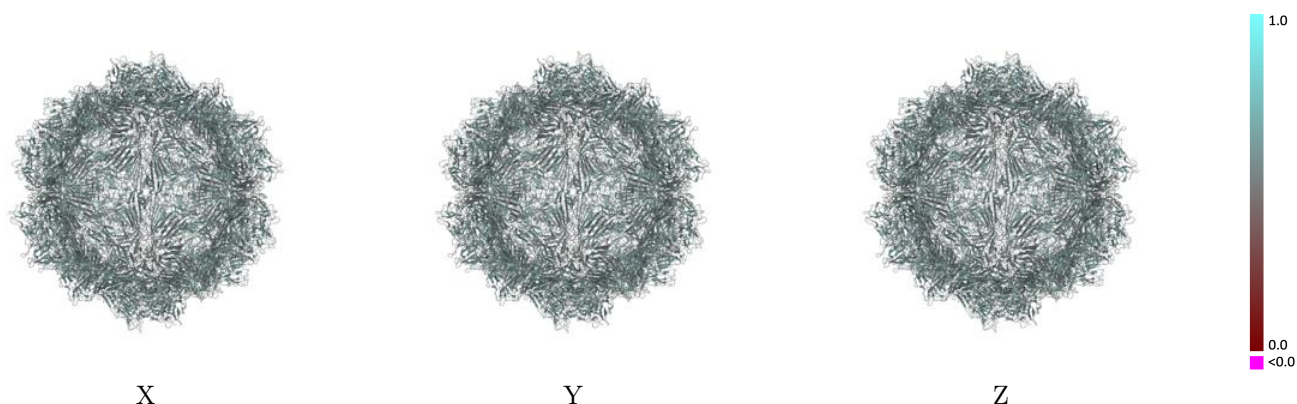
This section contains information regarding the fit between EMDB map EMD-46745 and PDB model 9DC7. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



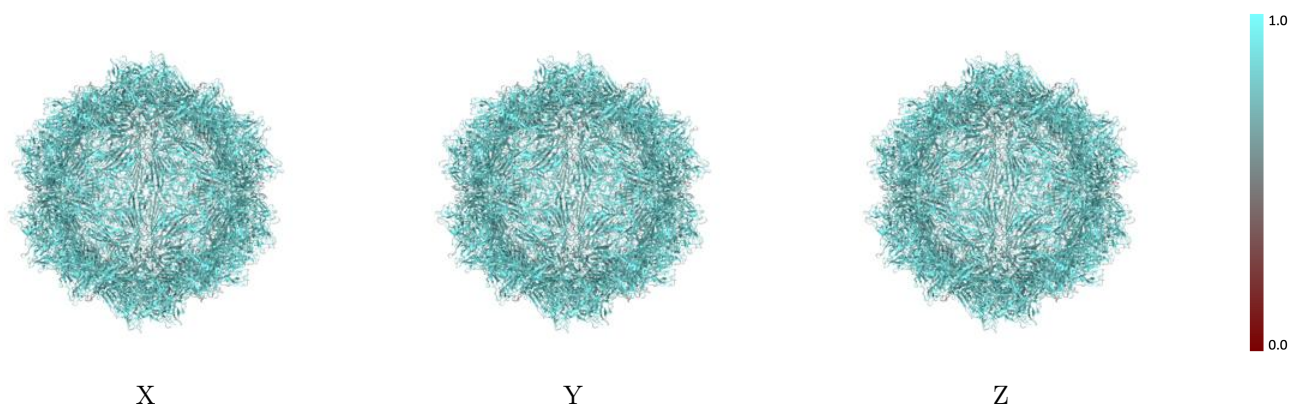
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



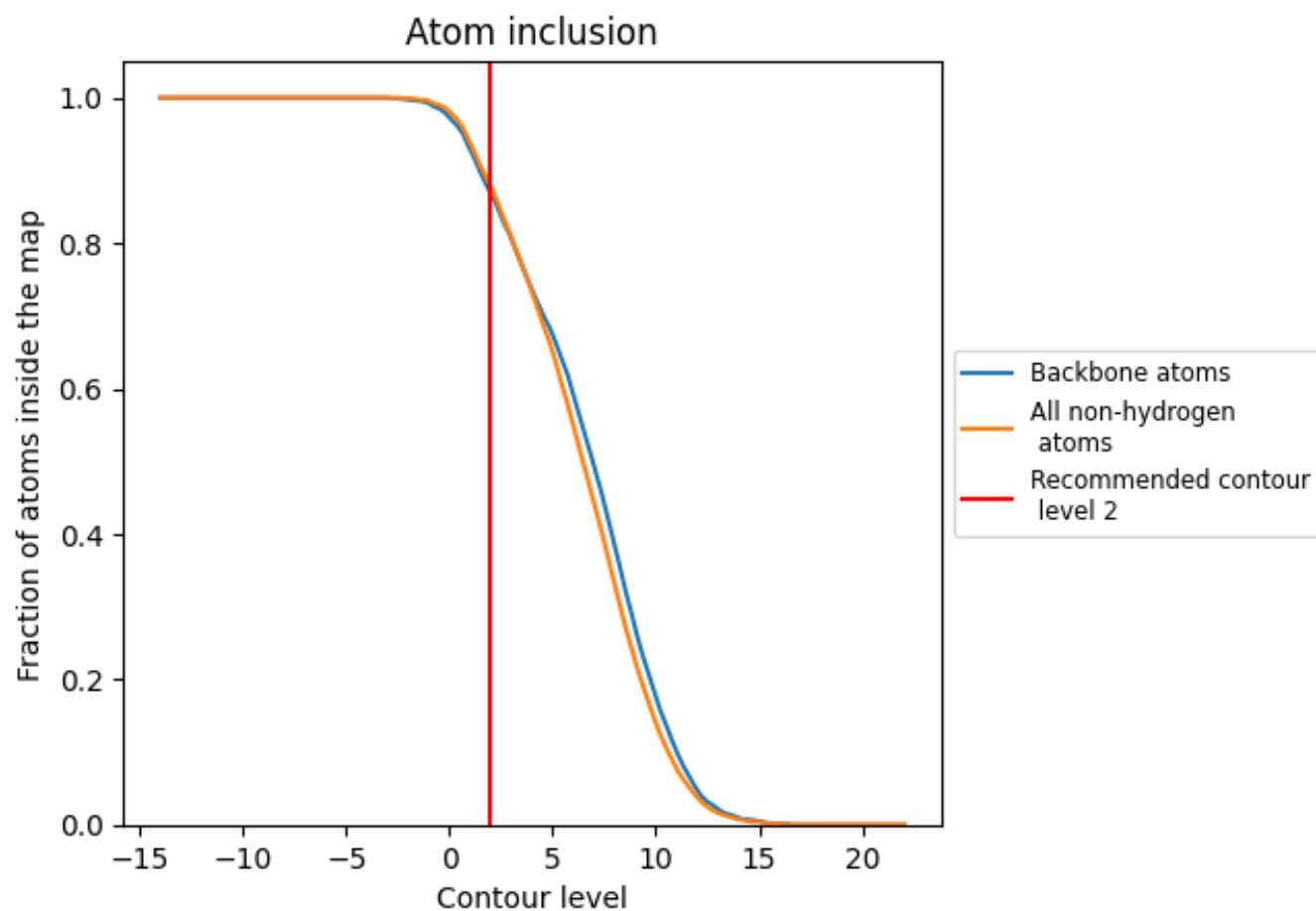
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 87% of all backbone atoms, 88% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8780	 0.5490
1	 0.8780	 0.5500
2	 0.8780	 0.5480
3	 0.8790	 0.5480
4	 0.8780	 0.5490
5	 0.8800	 0.5490
6	 0.8800	 0.5490
7	 0.8800	 0.5480
8	 0.8770	 0.5500
A	 0.8790	 0.5490
B	 0.8780	 0.5480
C	 0.8780	 0.5480
D	 0.8800	 0.5480
E	 0.8770	 0.5490
F	 0.8790	 0.5490
G	 0.8770	 0.5490
H	 0.8820	 0.5480
I	 0.8780	 0.5490
J	 0.8780	 0.5490
K	 0.8780	 0.5490
L	 0.8780	 0.5490
M	 0.8770	 0.5500
N	 0.8810	 0.5490
O	 0.8770	 0.5500
P	 0.8800	 0.5480
Q	 0.8780	 0.5490
R	 0.8780	 0.5490
S	 0.8780	 0.5480
T	 0.8780	 0.5500
U	 0.8780	 0.5490
V	 0.8780	 0.5490
W	 0.8800	 0.5490
X	 0.8770	 0.5480
Y	 0.8810	 0.5480
Z	 0.8770	 0.5490



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Chain	Atom inclusion	Q-score
a	 0.8790	 0.5480
b	 0.8790	 0.5490
c	 0.8790	 0.5490
d	 0.8790	 0.5500
e	 0.8790	 0.5500
f	 0.8790	 0.5490
g	 0.8780	 0.5480
h	 0.8770	 0.5500
i	 0.8800	 0.5480
j	 0.8790	 0.5480
k	 0.8800	 0.5490
l	 0.8770	 0.5490
m	 0.8780	 0.5490
n	 0.8790	 0.5490
o	 0.8770	 0.5490
p	 0.8780	 0.5490
q	 0.8780	 0.5490
r	 0.8780	 0.5480
s	 0.8780	 0.5490
t	 0.8770	 0.5490
u	 0.8780	 0.5490
v	 0.8790	 0.5490
w	 0.8770	 0.5480
x	 0.8780	 0.5490
y	 0.8790	 0.5490
z	 0.8780	 0.5480