



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 12:36 PM UTC

PDB ID : 8FQ4 / pdb_00008fq4
EMDB ID : EMD-29377
Title : AAV1 VP3 Only Capsid
Authors : Mietzsch, M.; McKenna, R.
Deposited on : 2023-01-05
Resolution : 2.27 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

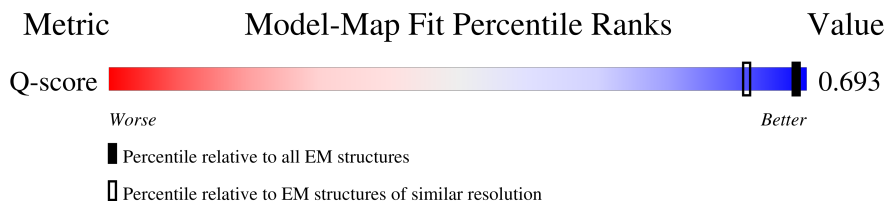
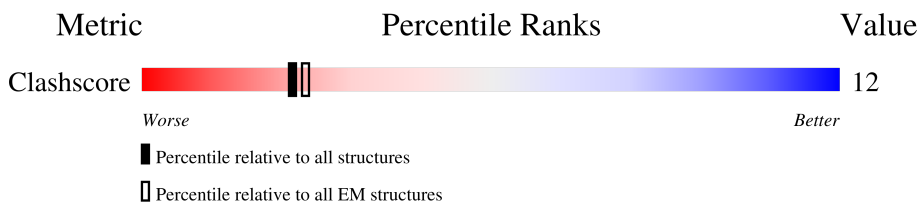
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.27 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.



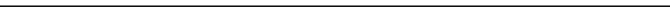
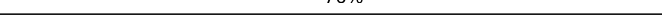
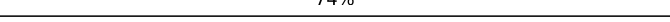
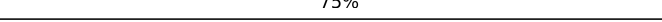
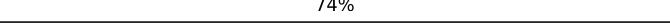
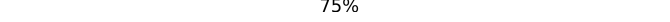
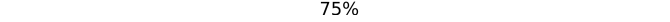
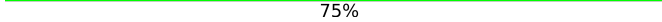
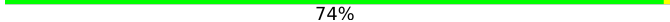
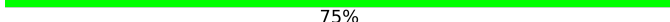
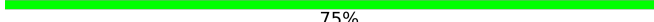
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Q-score	-	25397	3593 (1.77 - 2.77)

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	519	 74% 26%
1	2	519	 74% 26%
1	3	519	 75% 25%
1	4	519	 76% 24%
1	5	519	 74% 26%
1	6	519	 74% 26%

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Mol	Chain	Length	Quality of chain	
1	7	519		25%
1	8	519		25%
1	A	519		25%
1	B	519		26%
1	C	519		26%
1	D	519		24%
1	E	519		25%
1	F	519		26%
1	G	519		26%
1	H	519		26%
1	I	519		24%
1	J	519		26%
1	K	519		25%
1	L	519		25%
1	M	519		24%
1	N	519		26%
1	O	519		25%
1	P	519		26%
1	Q	519		25%
1	R	519		25%
1	S	519		25%
1	T	519		26%
1	U	519		25%
1	V	519		25%
1	W	519		27%

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Mol	Chain	Length	Quality of chain	
1	X	519		
1	Y	519		
1	Z	519		
1	a	519		
1	b	519		
1	c	519		
1	d	519		
1	e	519		
1	f	519		
1	g	519		
1	h	519		
1	i	519		
1	j	519		
1	k	519		
1	l	519		
1	m	519		
1	n	519		
1	o	519		
1	p	519		
1	q	519		
1	r	519		
1	s	519		
1	t	519		
1	u	519		
1	v	519		

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Mol	Chain	Length	Quality of chain	
1	w	519		
1	x	519		
1	y	519		
1	z	519		

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 246960 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	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	B	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	C	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	D	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	E	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	F	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	G	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	H	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	I	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	J	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	K	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	L	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	M	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	N	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	O	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	P	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	Q	519	Total 4116	C 2604	N 709	O 787	S 16	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	S	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	T	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	U	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	V	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	W	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	X	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	Y	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	Z	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	a	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	b	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	c	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	d	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	e	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	f	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	g	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	h	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	i	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	j	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	k	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	l	519	Total 4116	C 2604	N 709	O 787	S 16	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	n	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	o	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	p	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	q	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	r	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	s	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	t	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	u	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	v	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	w	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	x	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	y	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	z	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	1	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	2	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	3	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	4	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	5	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	6	519	Total 4116	C 2604	N 709	O 787	S 16	0	0
1	7	519	Total 4116	C 2604	N 709	O 787	S 16	0	0

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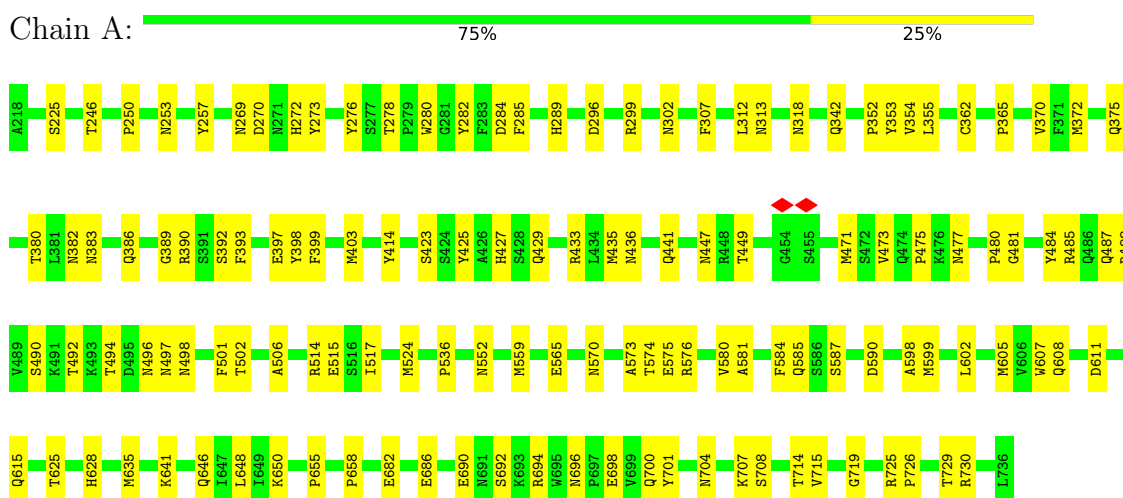
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	519	Total	C	N	O	S	0	0
			4116	2604	709	787	16		

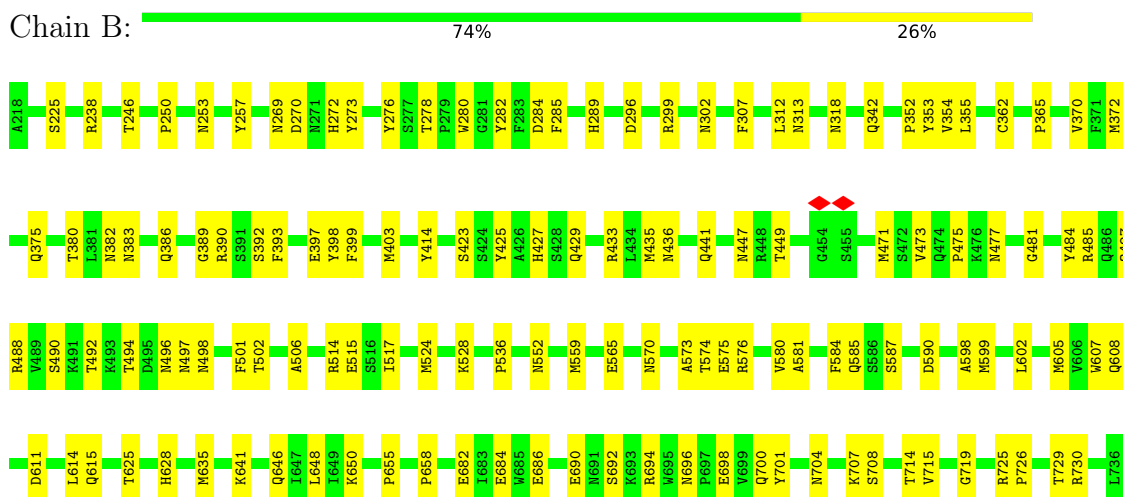
3 Residue-property plots

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

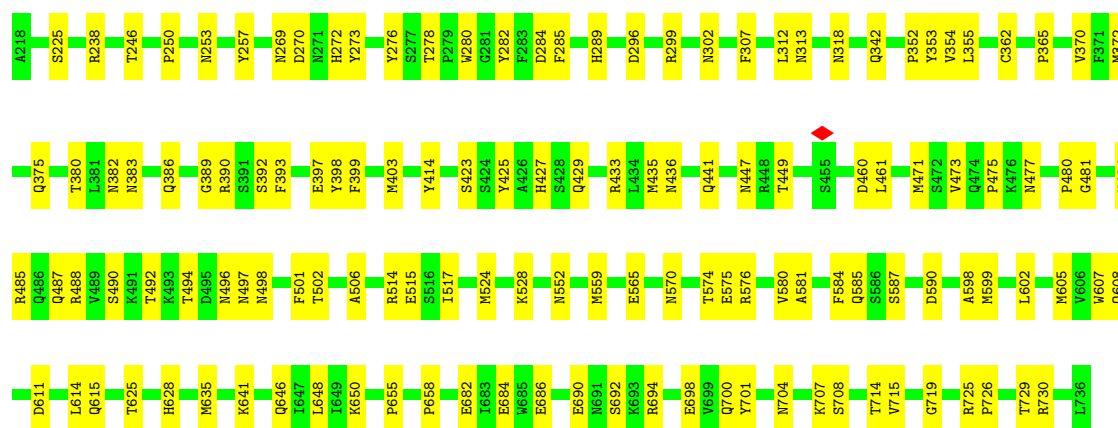


• Molecule 1: Capsid protein



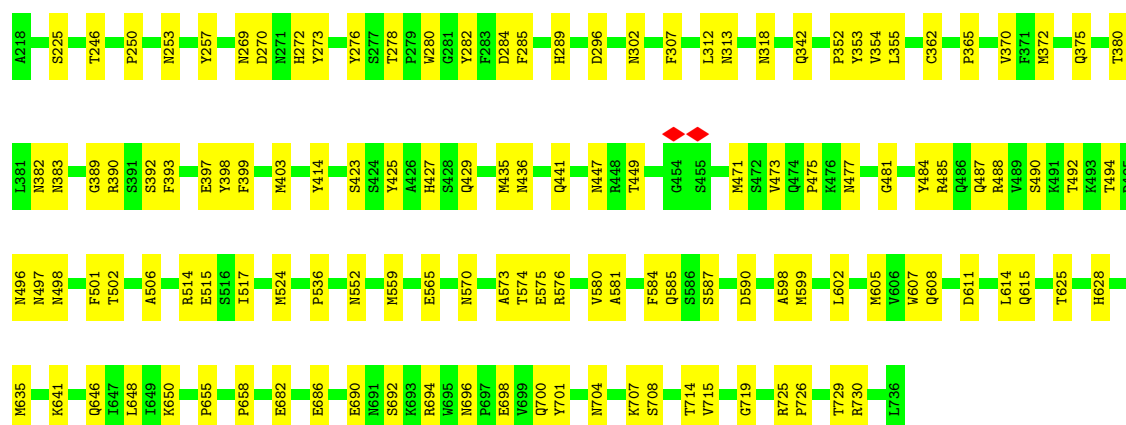
• Molecule 1: Capsid protein





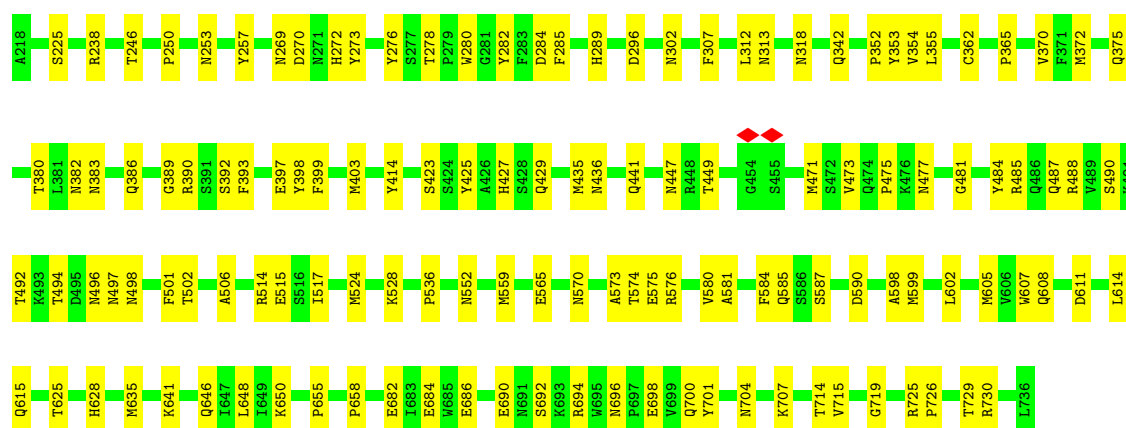
• Molecule 1: Capsid protein

Chain D: 76% 24%



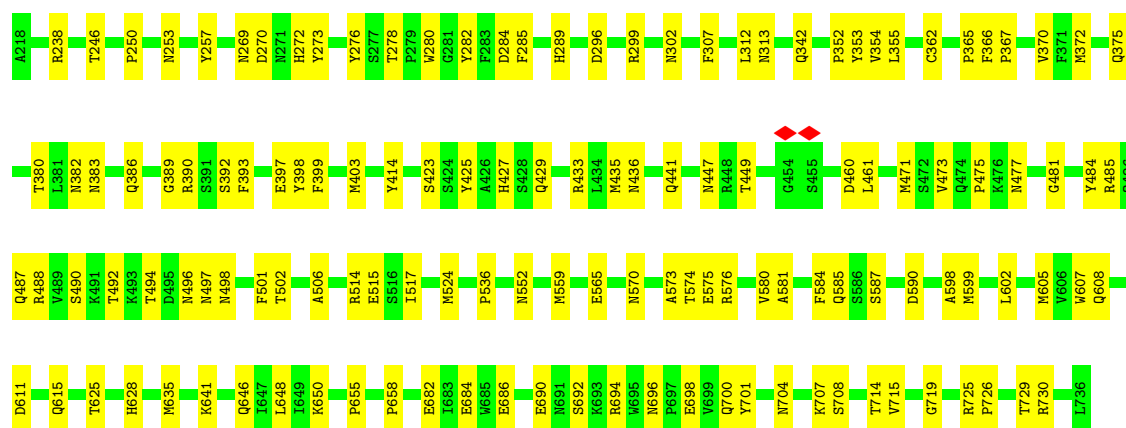
• Molecule 1: Capsid protein

Chain E: 75% 25%

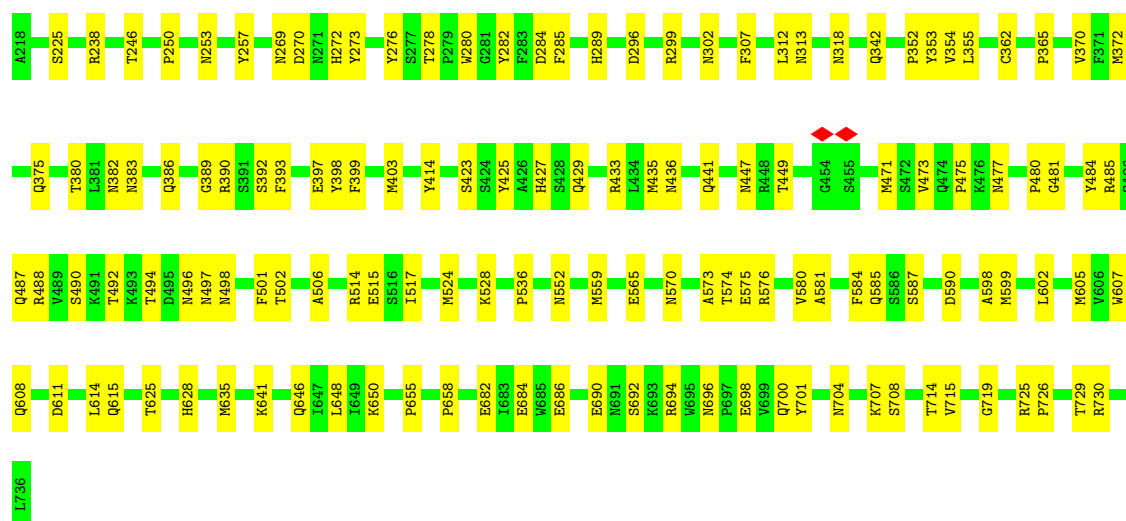


• Molecule 1: Capsid protein

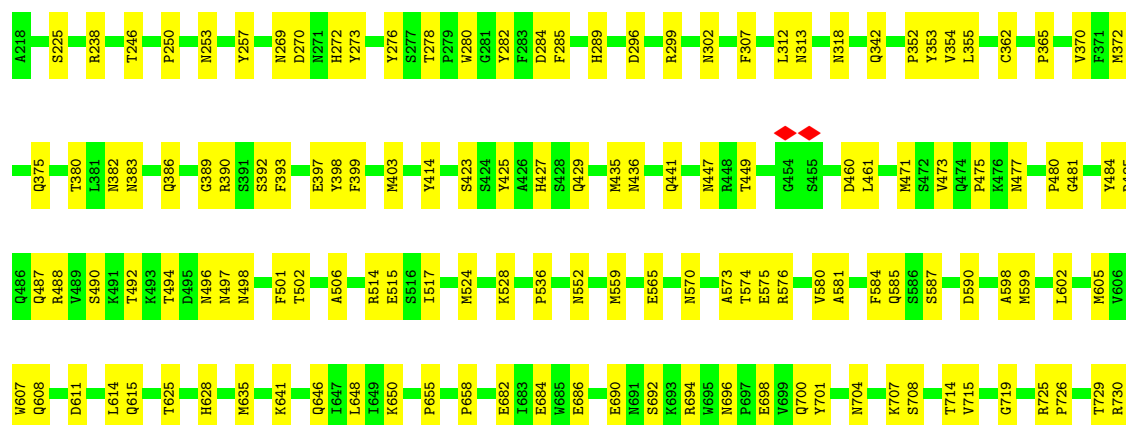
Chain F: 74% 26%



• Molecule 1: Capsid protein



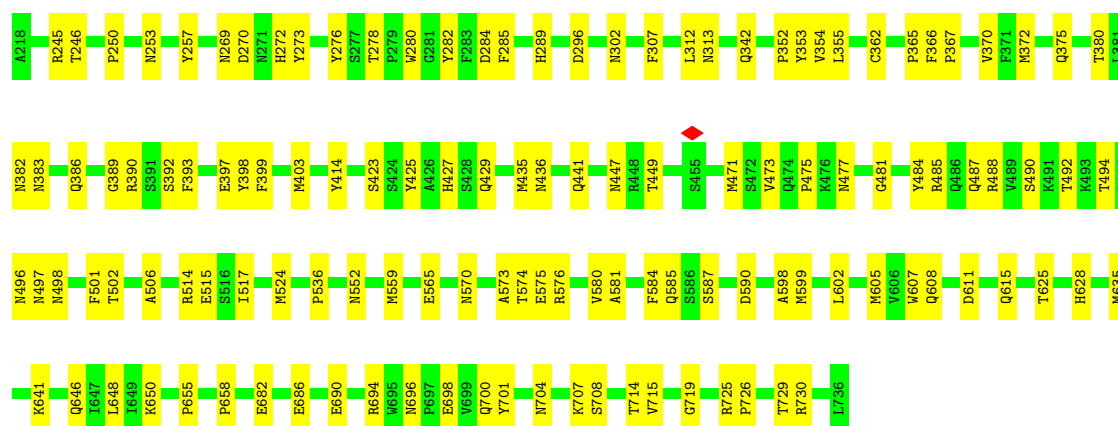
• Molecule 1: Capsid protein





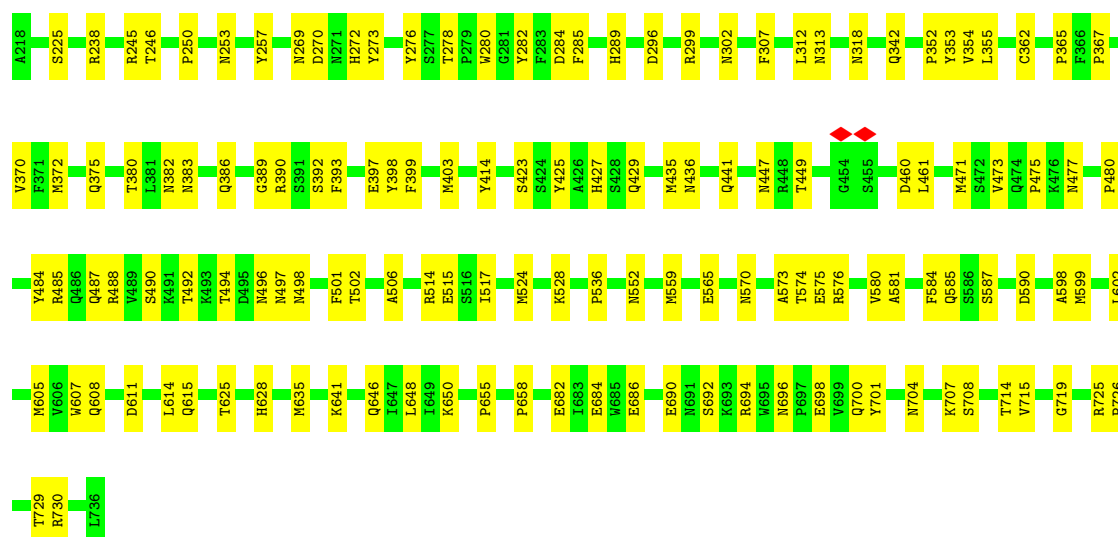
• Molecule 1: Capsid protein

Chain I:  76% 24%



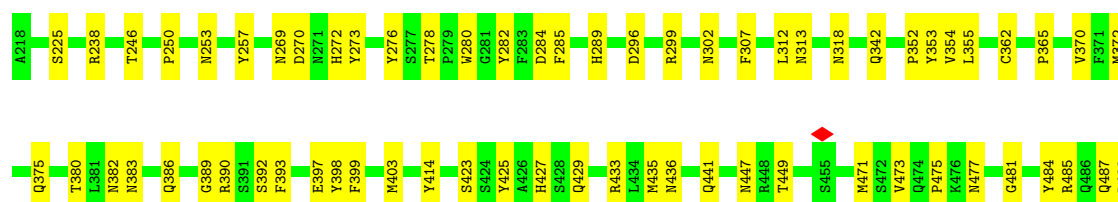
• Molecule 1: Capsid protein

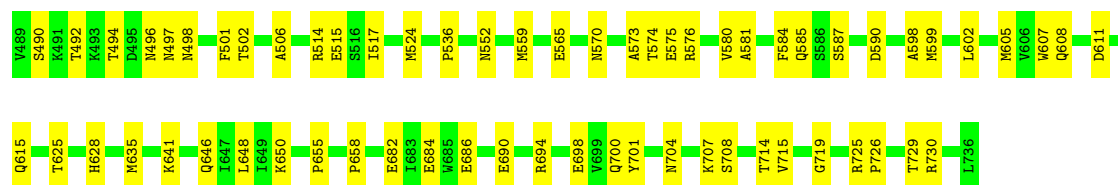
Chain J:  74% 26%



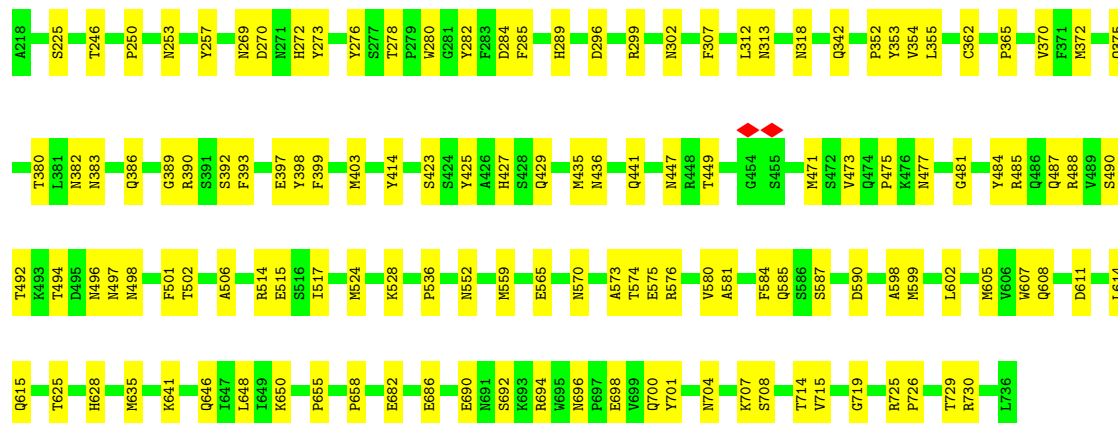
• Molecule 1: Capsid protein

Chain K:  75% 25%

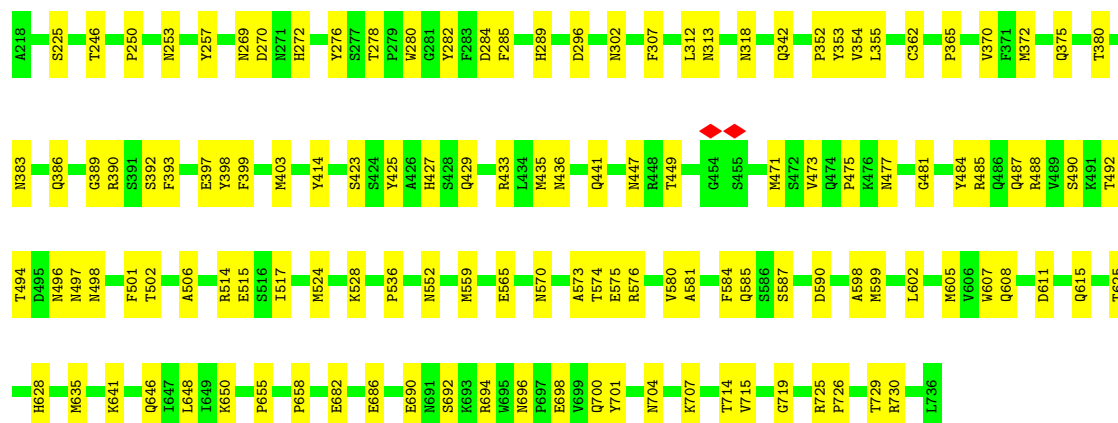
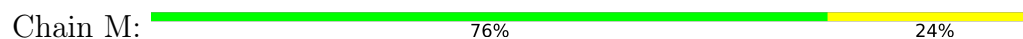




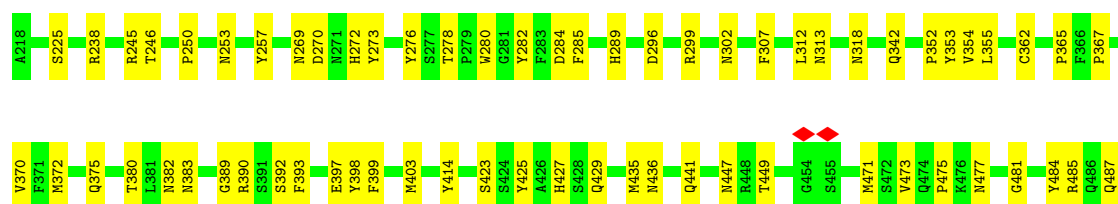
• Molecule 1: Capsid protein

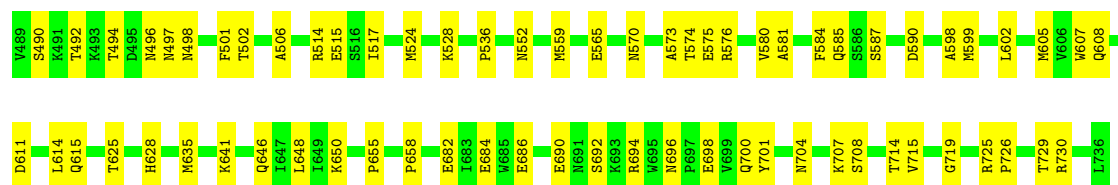


• Molecule 1: Capsid protein



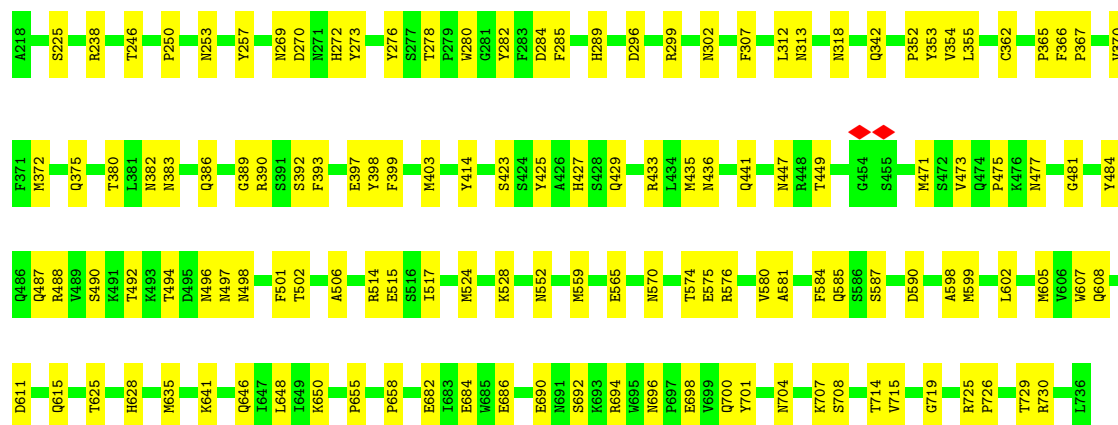
• Molecule 1: Capsid protein





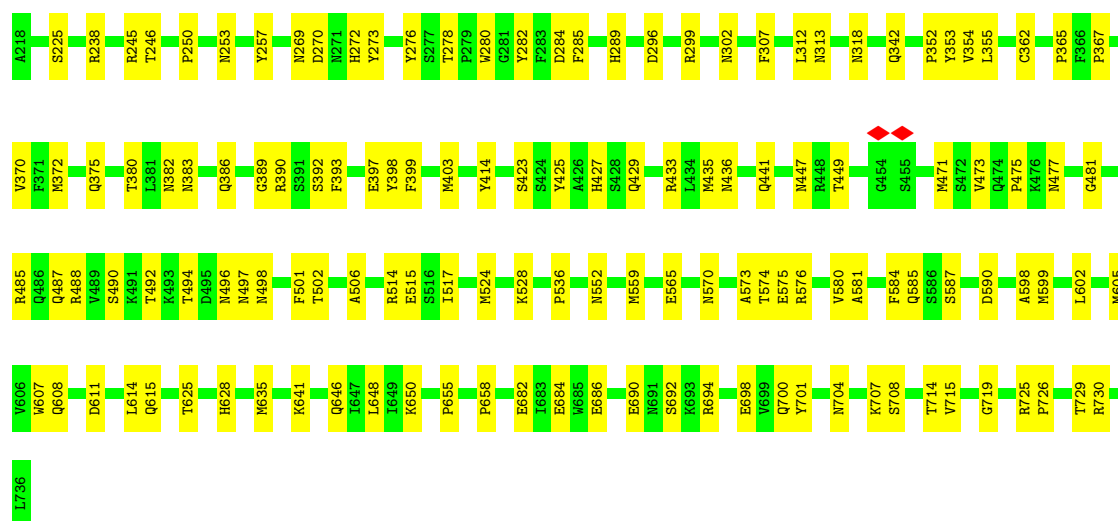
• Molecule 1: Capsid protein

Chain O:



• Molecule 1: Capsid protein

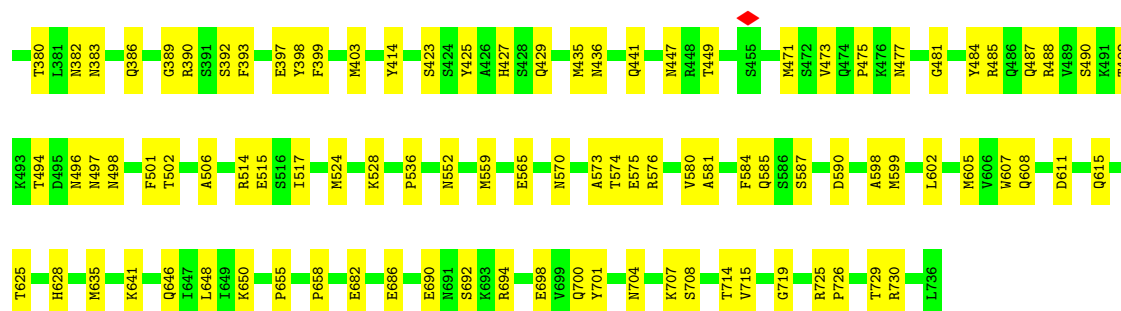
Chain P:



• Molecule 1: Capsid protein

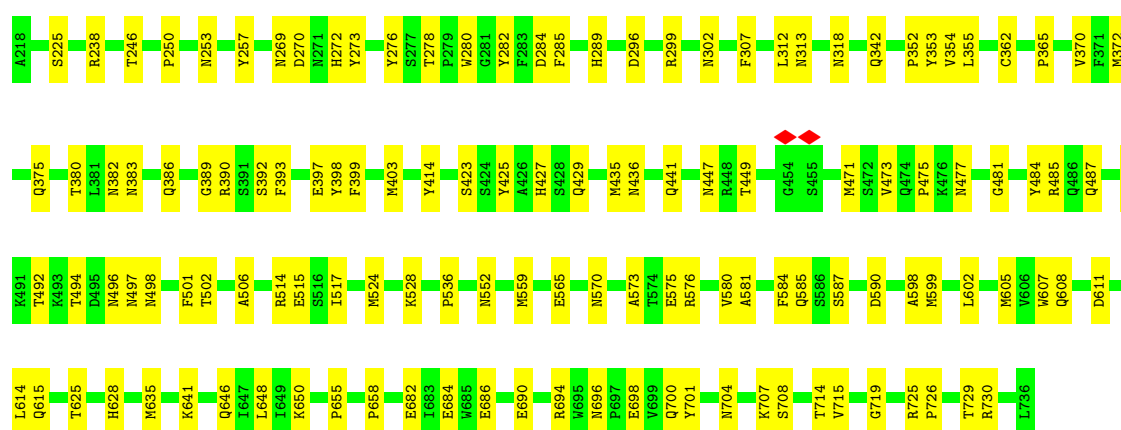
Chain Q:





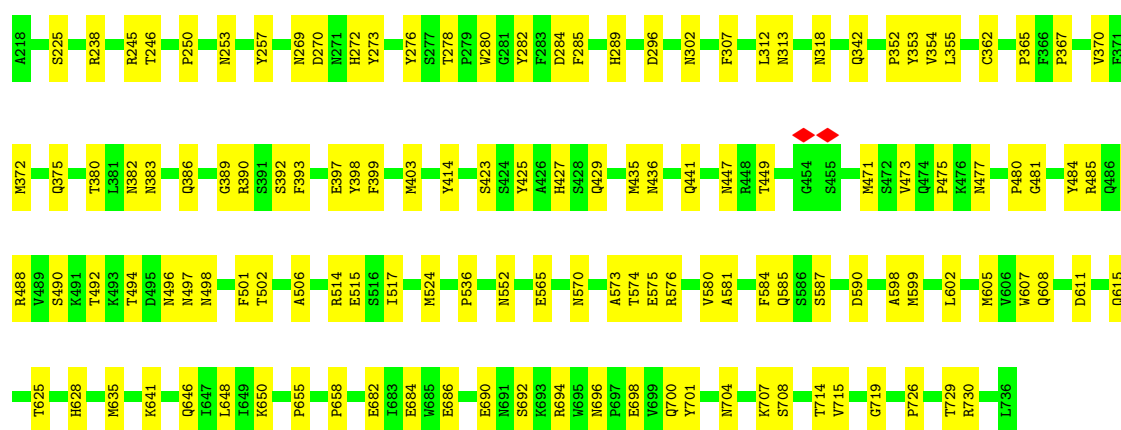
• Molecule 1: Capsid protein

Chain R: 75% 25%



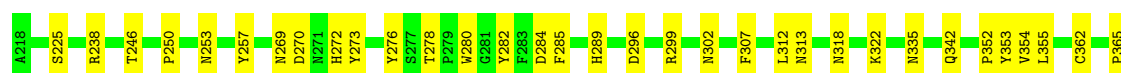
• Molecule 1: Capsid protein

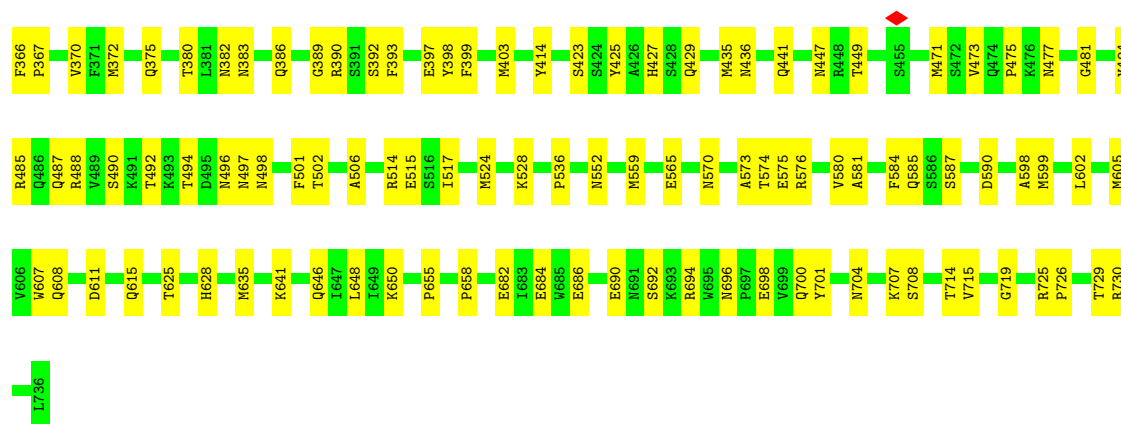
Chain S: 75% 25%



• Molecule 1: Capsid protein

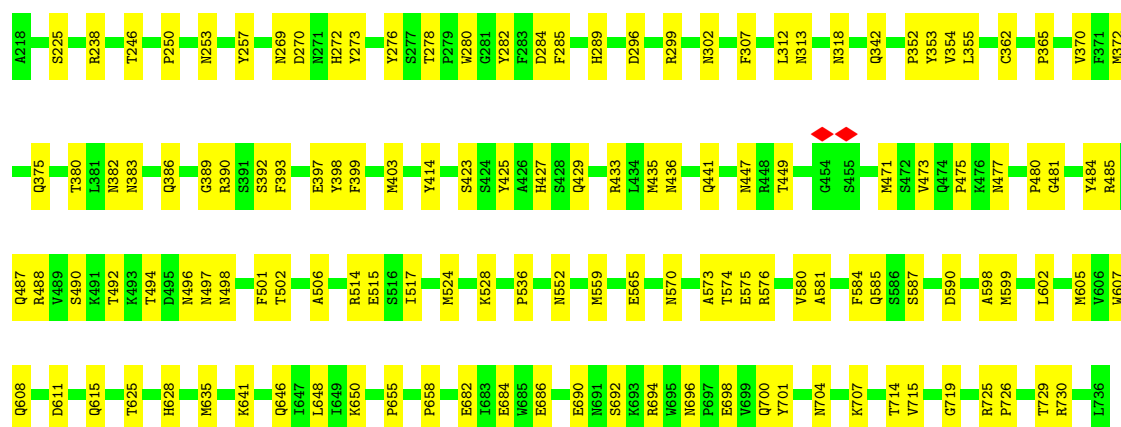
Chain T: 74% 26%





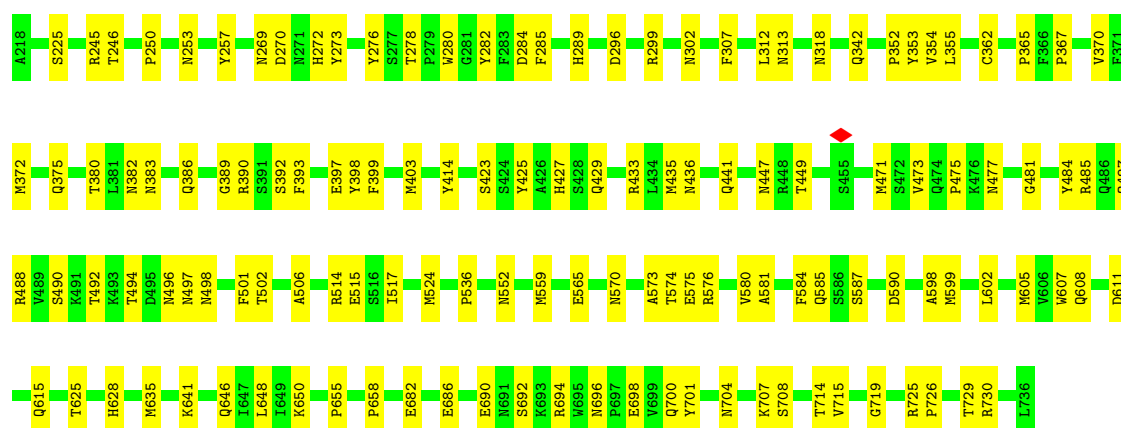
- Molecule 1: Capsid protein

Chain U: 75% 25%



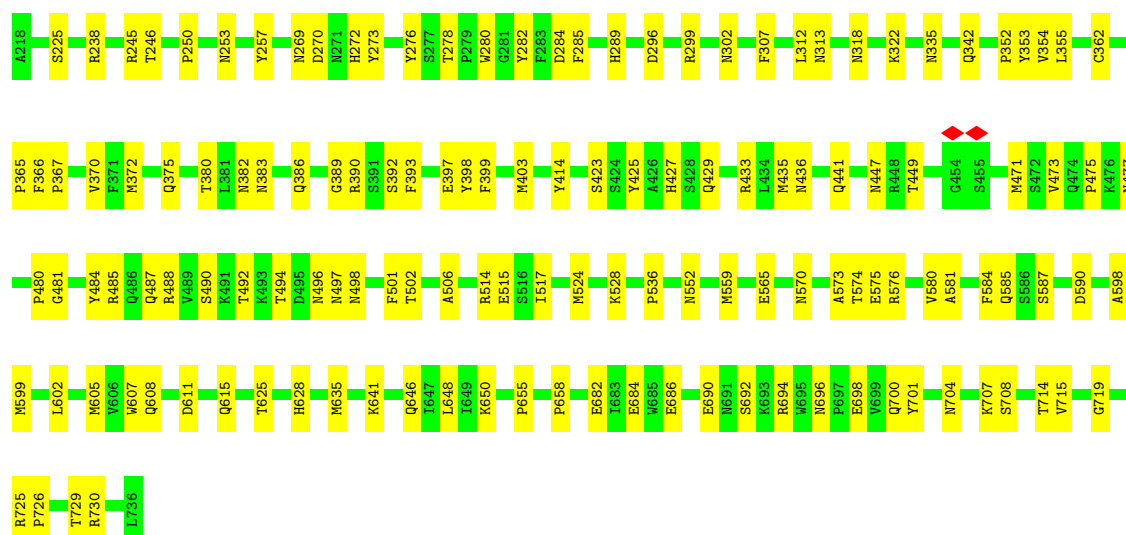
- Molecule 1: Capsid protein

Chain V: 75% 25%



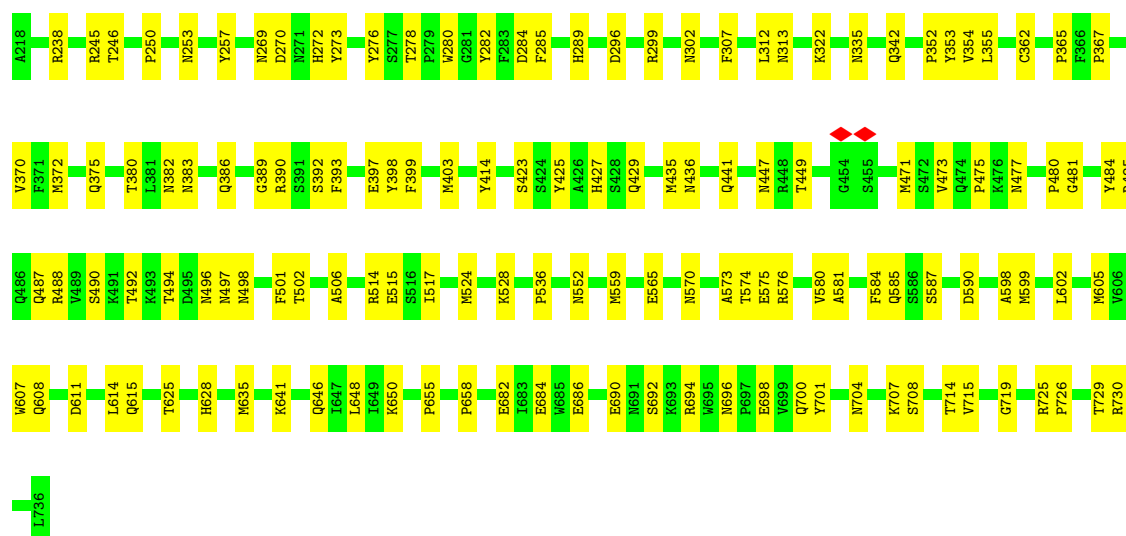
- Molecule 1: Capsid protein

Chain W: 73% 27%



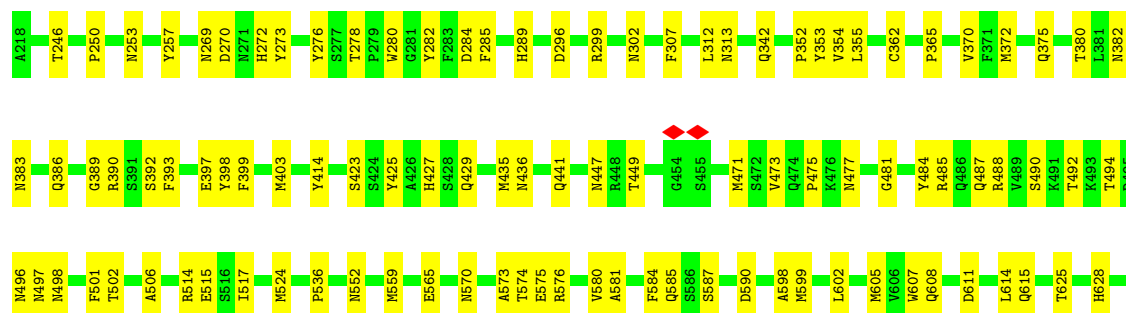
• Molecule 1: Capsid protein

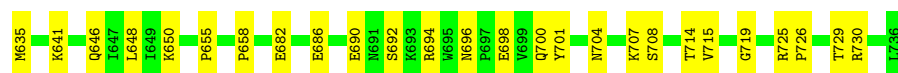
Chain X: 74% 26%



• Molecule 1: Capsid protein

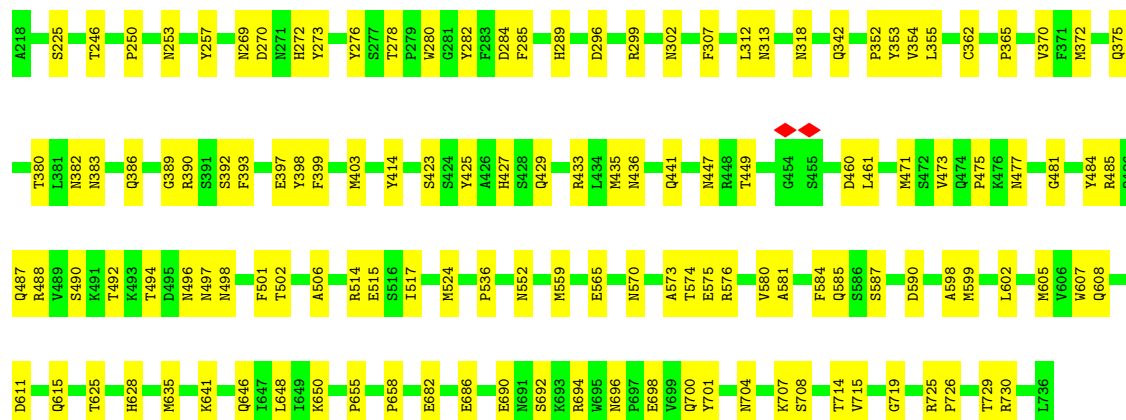
Chain Y: 76% 24%





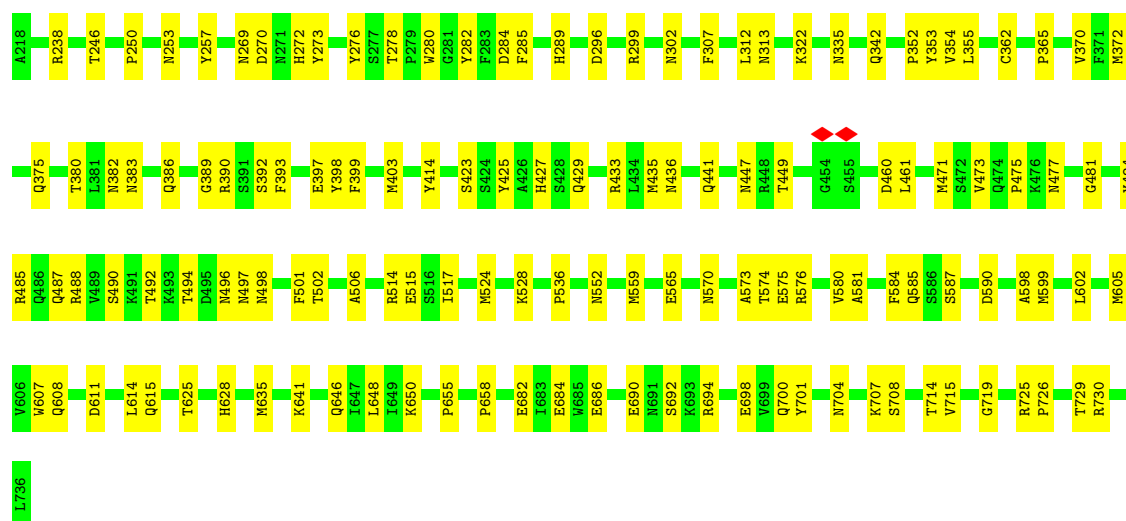
• Molecule 1: Capsid protein

Chain Z: 75% 25%



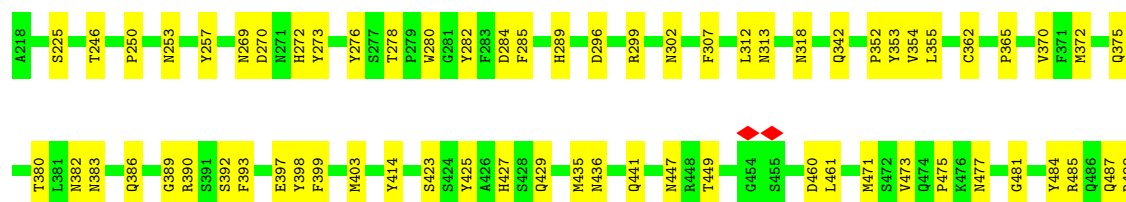
• Molecule 1: Capsid protein

Chain a: 74% 26%



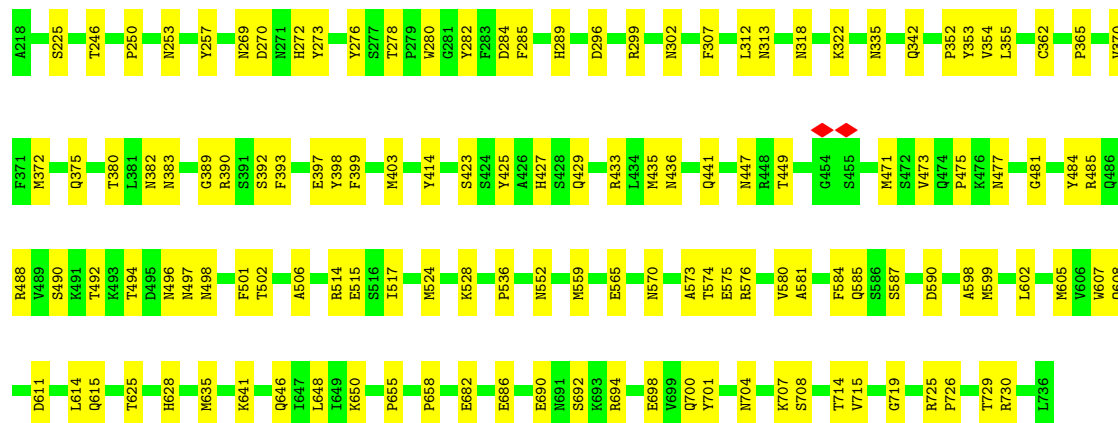
• Molecule 1: Capsid protein

Chain b: 75% 25%

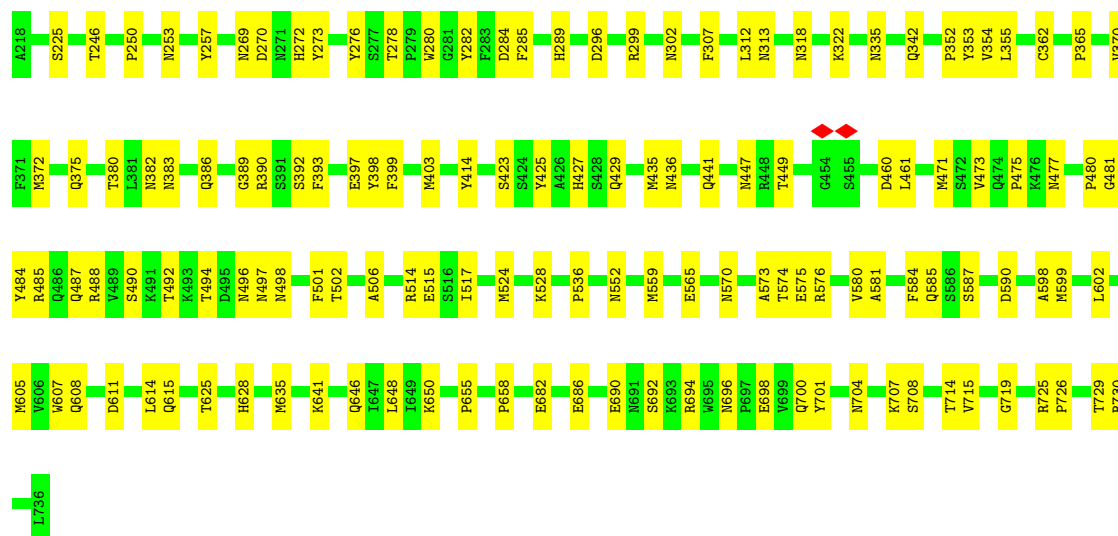




• Molecule 1: Capsid protein

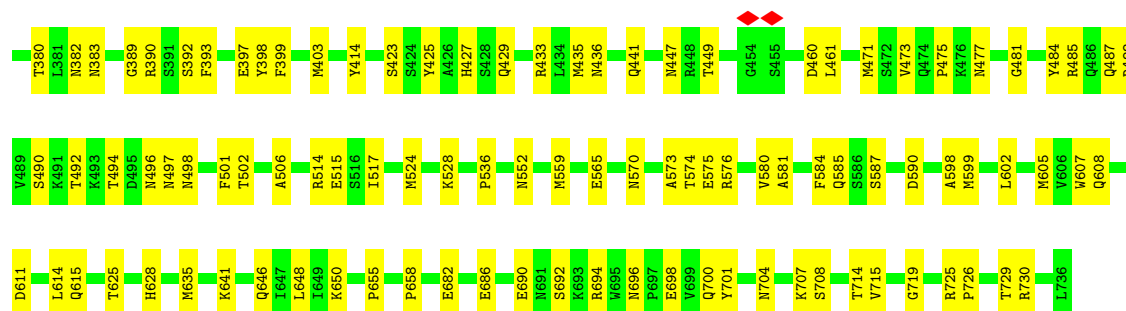


• Molecule 1: Capsid protein



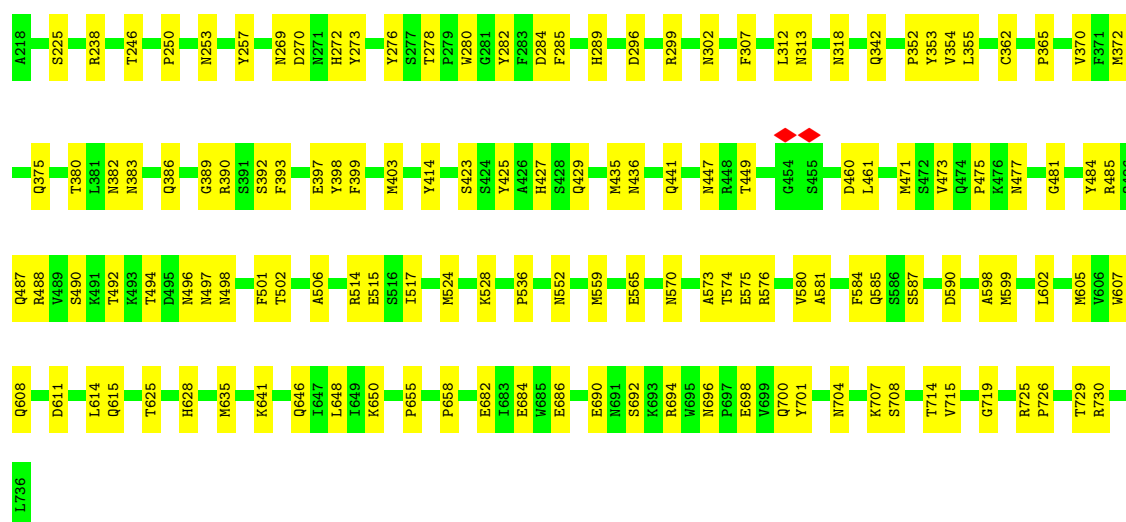
• Molecule 1: Capsid protein





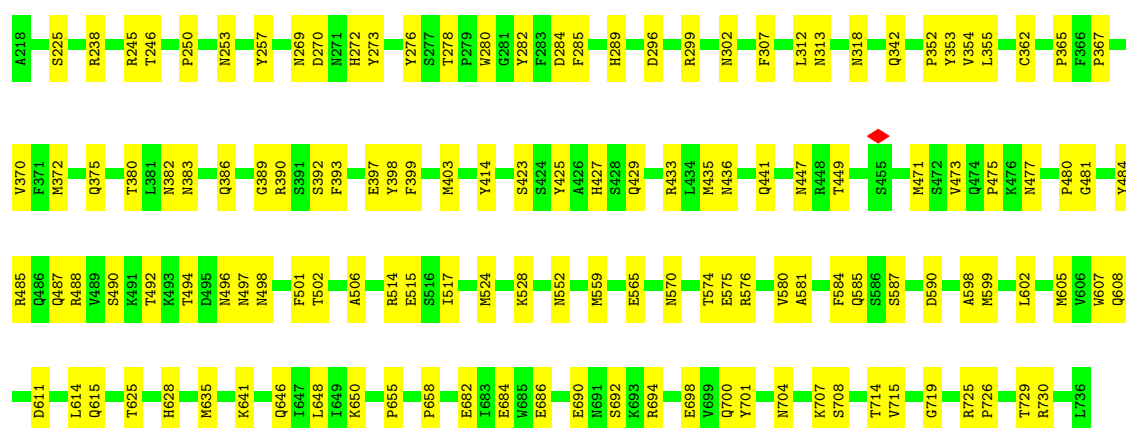
• Molecule 1: Capsid protein

Chain f: 74% 26%



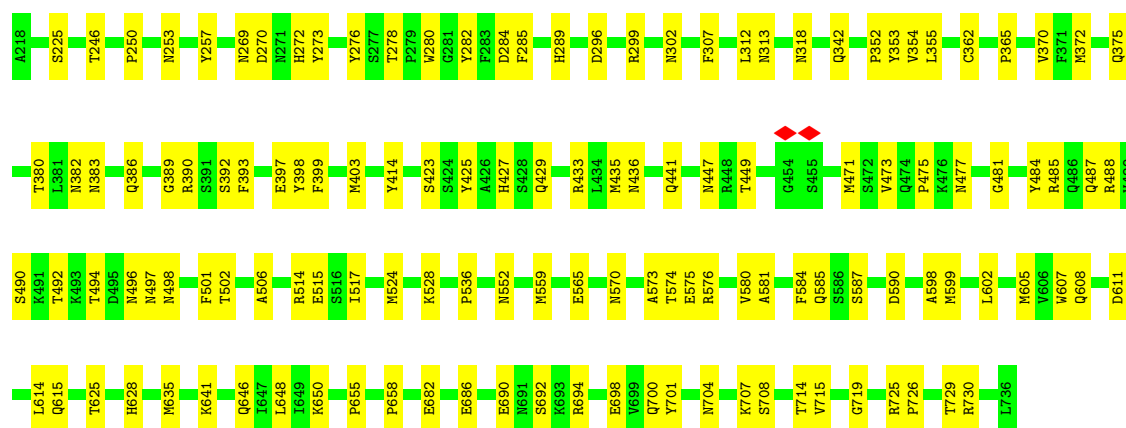
• Molecule 1: Capsid protein

Chain g: 74% 26%



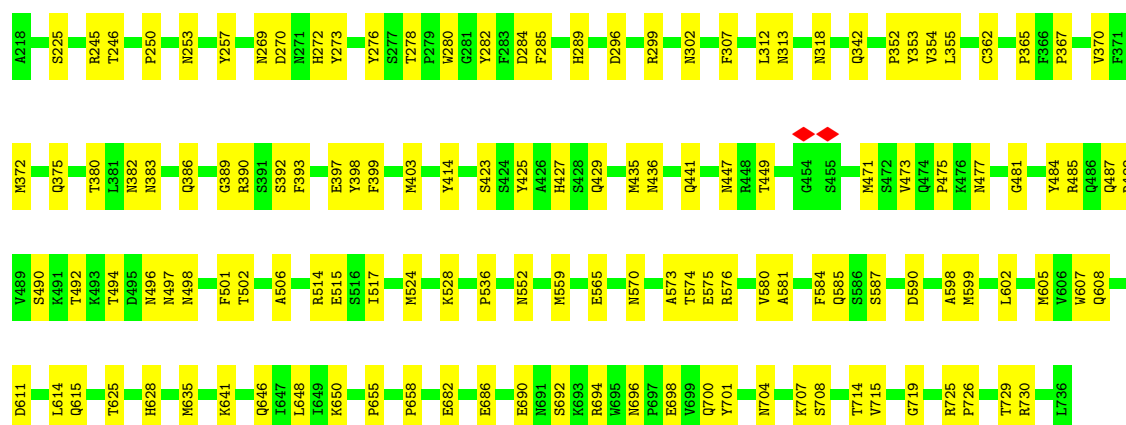
• Molecule 1: Capsid protein

Chain h: 75% 25%



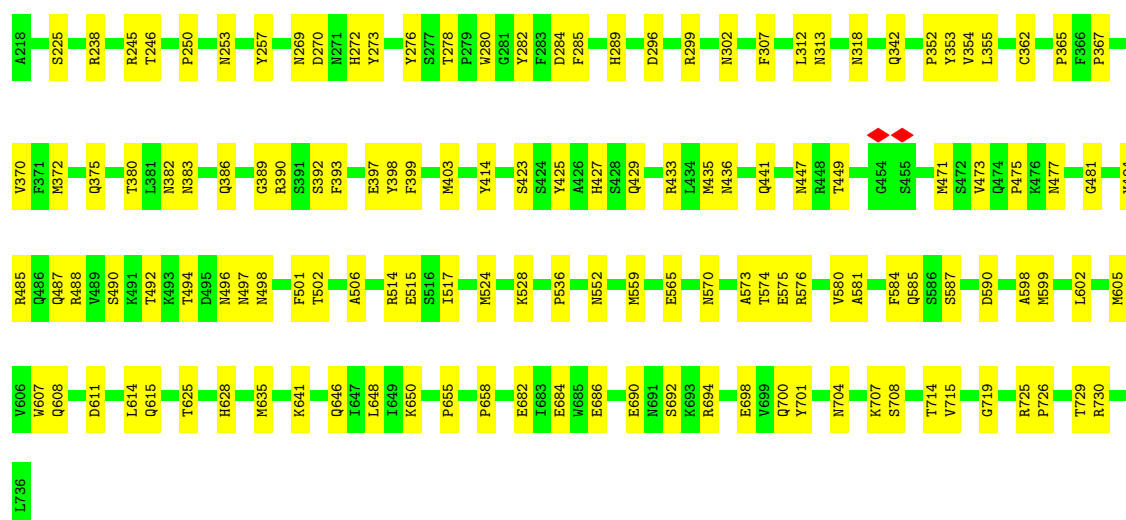
• Molecule 1: Capsid protein

Chain i: 75% 25%

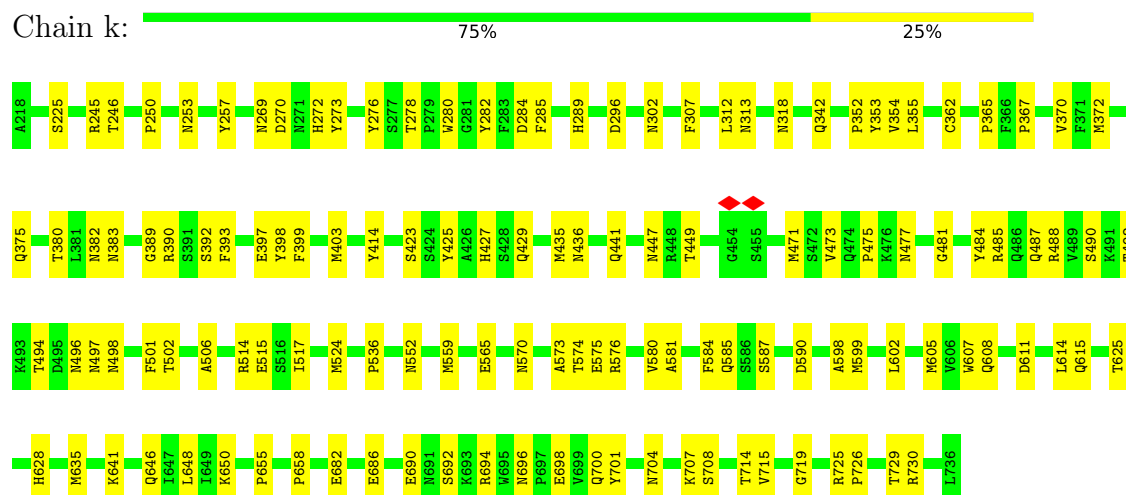


• Molecule 1: Capsid protein

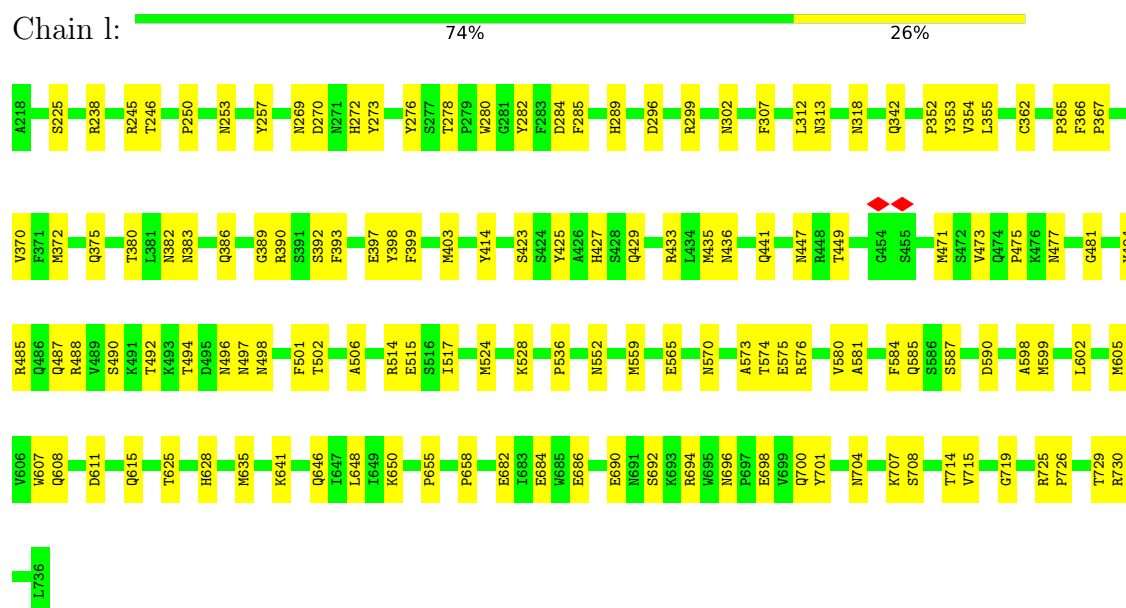
Chain j: 74% 26%



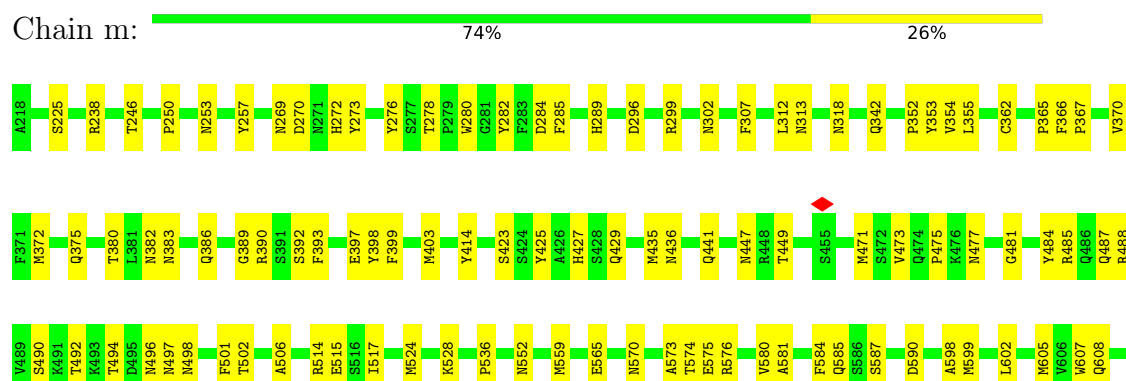
- Molecule 1: Capsid protein

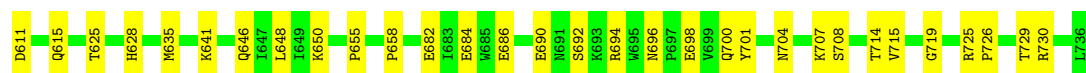


- Molecule 1: Capsid protein

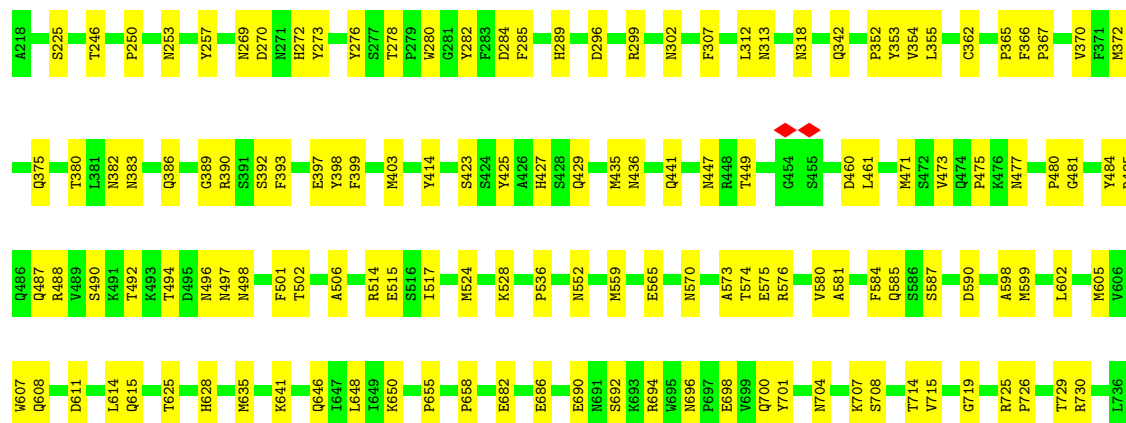


- Molecule 1: Capsid protein

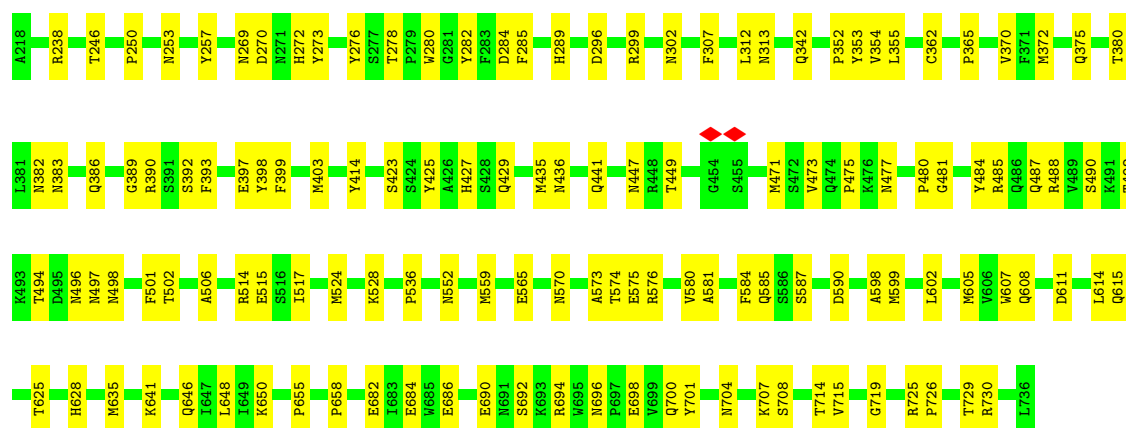




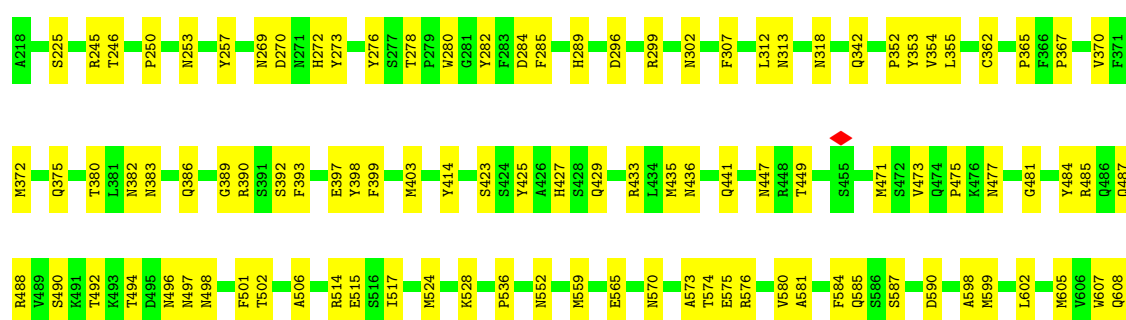
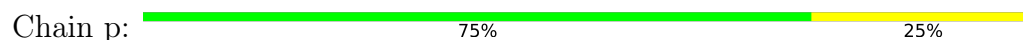
• Molecule 1: Capsid protein



• Molecule 1: Capsid protein

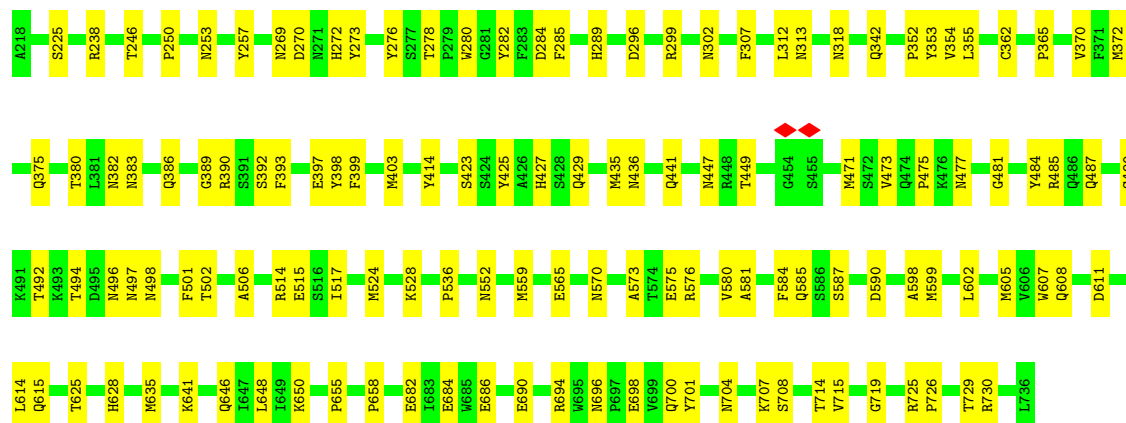


• Molecule 1: Capsid protein

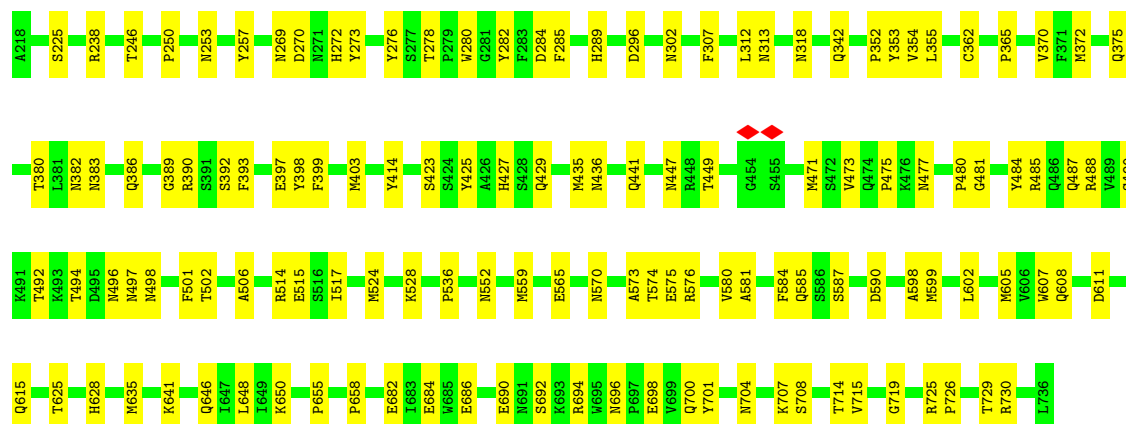




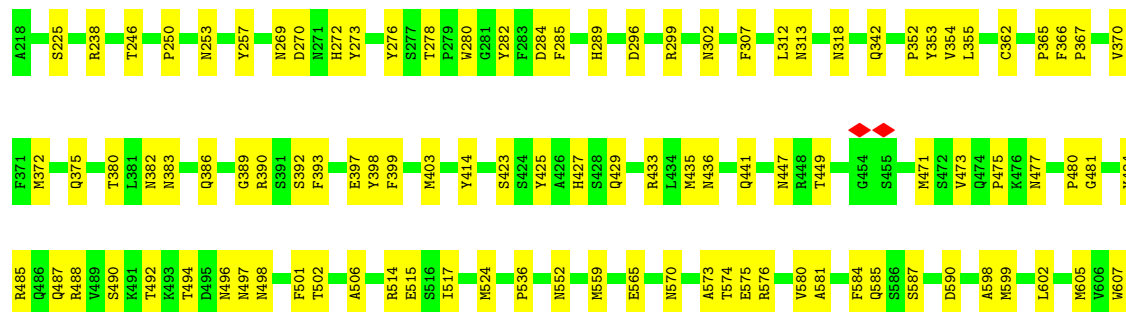
● Molecule 1: Capsid protein

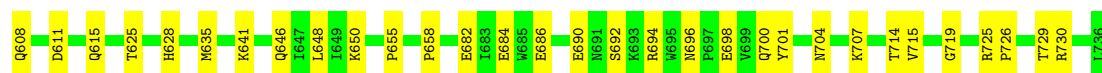


● Molecule 1: Capsid protein

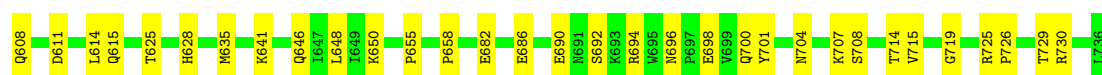
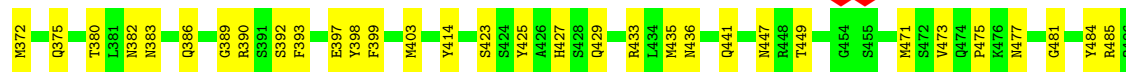


● Molecule 1: Capsid protein

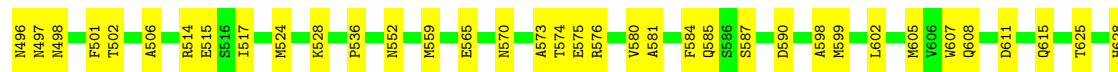




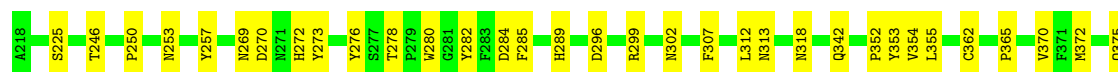
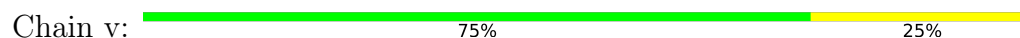
• Molecule 1: Capsid protein



• Molecule 1: Capsid protein



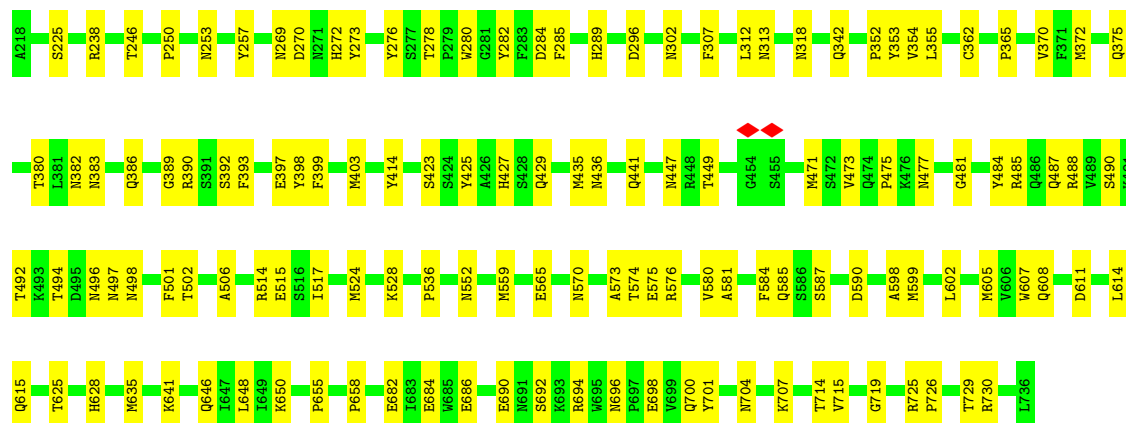
• Molecule 1: Capsid protein





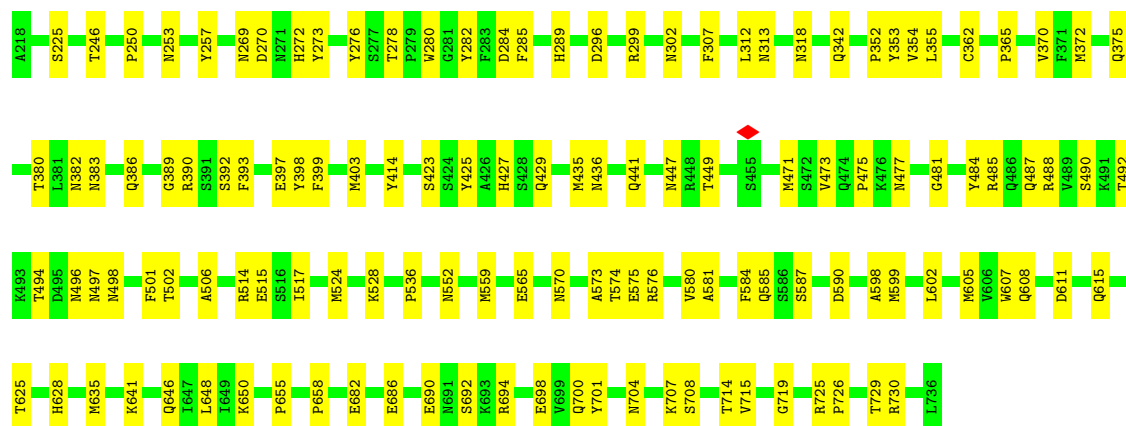
• Molecule 1: Capsid protein

Chain w: 75% 25%



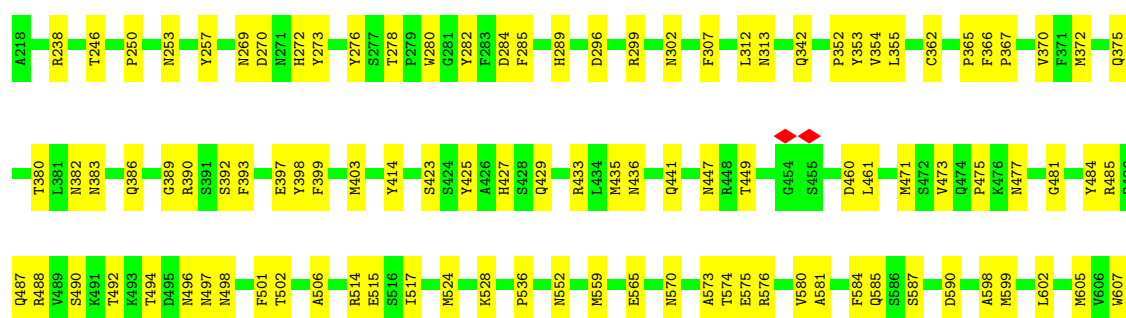
• Molecule 1: Capsid protein

Chain x: 75% 25%



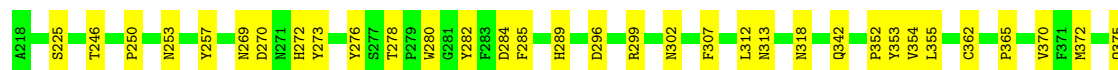
• Molecule 1: Capsid protein

Chain y: 74% 26%

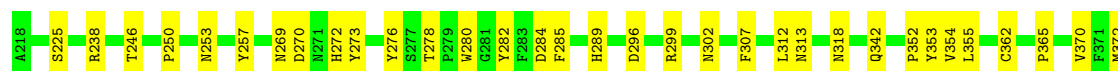




• Molecule 1: Capsid protein

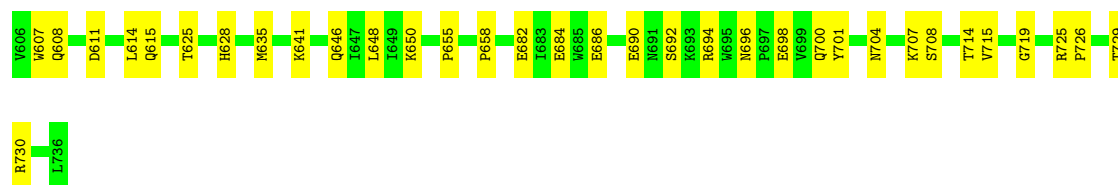


• Molecule 1: Capsid protein



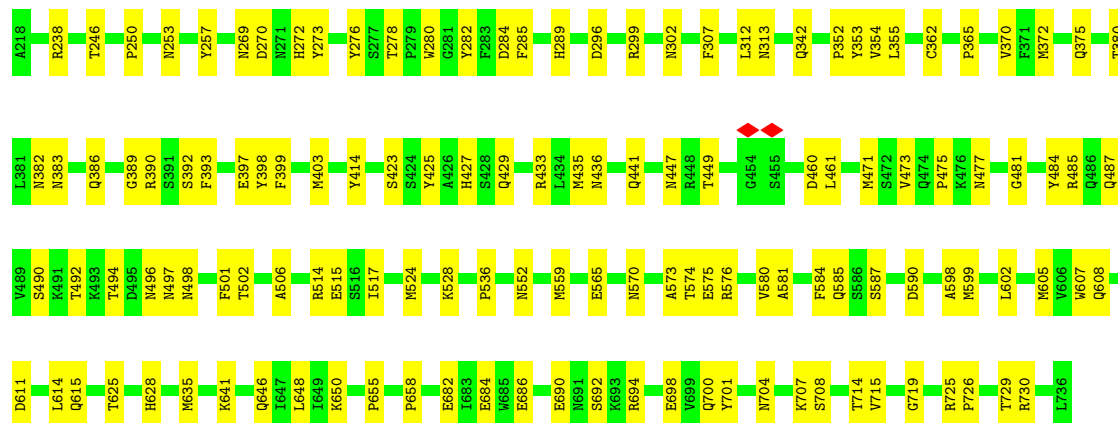
• Molecule 1: Capsid protein





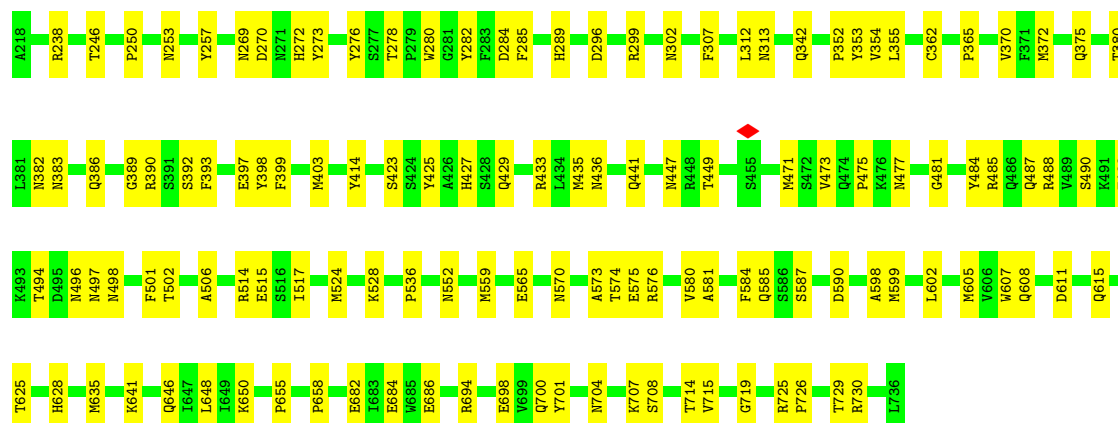
• Molecule 1: Capsid protein

Chain 3: 75% 25%



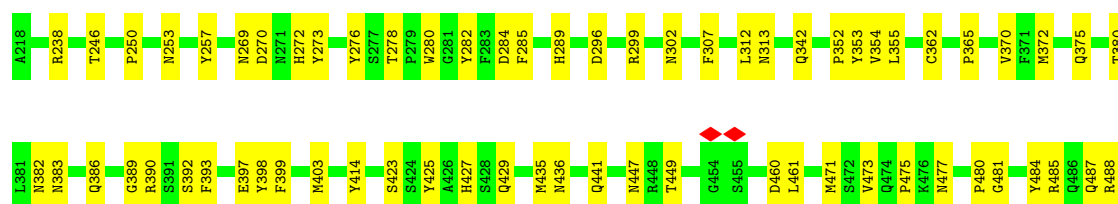
• Molecule 1: Capsid protein

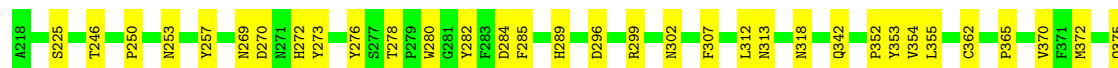
Chain 4: 76% 24%



• Molecule 1: Capsid protein

Chain 5: 74% 26%







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	4418	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	59	Depositor
Minimum defocus (nm)	480	Depositor
Maximum defocus (nm)	1840	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON APOLLO (4k x 4k)	Depositor
Maximum map value	18.176	Depositor
Minimum map value	-8.280	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (Å)	431.94, 431.94, 431.94	wwPDB
Map dimensions	460, 460, 460	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.939, 0.939, 0.939	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.46	0/4242	0.58	0/5785
1	2	0.46	0/4242	0.58	0/5785
1	3	0.46	0/4242	0.58	0/5785
1	4	0.46	0/4242	0.58	0/5785
1	5	0.46	0/4242	0.58	0/5785
1	6	0.46	0/4242	0.58	0/5785
1	7	0.46	0/4242	0.58	0/5785
1	8	0.46	0/4242	0.58	0/5785
1	A	0.46	0/4242	0.58	0/5785
1	B	0.46	0/4242	0.58	0/5785
1	C	0.46	0/4242	0.58	0/5785
1	D	0.46	0/4242	0.58	0/5785
1	E	0.46	0/4242	0.58	0/5785
1	F	0.46	0/4242	0.58	0/5785
1	G	0.46	0/4242	0.58	0/5785
1	H	0.46	0/4242	0.58	0/5785
1	I	0.46	0/4242	0.58	0/5785
1	J	0.46	0/4242	0.58	0/5785
1	K	0.46	0/4242	0.58	0/5785
1	L	0.46	0/4242	0.58	0/5785
1	M	0.46	0/4242	0.58	0/5785
1	N	0.46	0/4242	0.58	0/5785
1	O	0.46	0/4242	0.58	0/5785
1	P	0.46	0/4242	0.58	0/5785
1	Q	0.46	0/4242	0.58	0/5785
1	R	0.46	0/4242	0.58	0/5785
1	S	0.46	0/4242	0.58	0/5785
1	T	0.46	0/4242	0.58	0/5785
1	U	0.46	0/4242	0.58	0/5785
1	V	0.46	0/4242	0.58	0/5785
1	W	0.46	0/4242	0.58	0/5785
1	X	0.46	0/4242	0.58	0/5785
1	Y	0.46	0/4242	0.58	0/5785
1	Z	0.46	0/4242	0.58	0/5785

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.46	0/4242	0.58	0/5785
1	b	0.46	0/4242	0.58	0/5785
1	c	0.46	0/4242	0.58	0/5785
1	d	0.46	0/4242	0.58	0/5785
1	e	0.46	0/4242	0.58	0/5785
1	f	0.46	0/4242	0.58	0/5785
1	g	0.46	0/4242	0.58	0/5785
1	h	0.46	0/4242	0.58	0/5785
1	i	0.46	0/4242	0.58	0/5785
1	j	0.46	0/4242	0.58	0/5785
1	k	0.46	0/4242	0.58	0/5785
1	l	0.46	0/4242	0.58	0/5785
1	m	0.46	0/4242	0.58	0/5785
1	n	0.46	0/4242	0.58	0/5785
1	o	0.46	0/4242	0.58	0/5785
1	p	0.46	0/4242	0.58	0/5785
1	q	0.46	0/4242	0.58	0/5785
1	r	0.46	0/4242	0.58	0/5785
1	s	0.46	0/4242	0.58	0/5785
1	t	0.46	0/4242	0.58	0/5785
1	u	0.46	0/4242	0.58	0/5785
1	v	0.46	0/4242	0.58	0/5785
1	w	0.46	0/4242	0.58	0/5785
1	x	0.46	0/4242	0.58	0/5785
1	y	0.46	0/4242	0.58	0/5785
1	z	0.46	0/4242	0.58	0/5785
All	All	0.46	0/254520	0.58	0/347100

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	4116	0	3881	131	0
1	2	4116	0	3881	133	0
1	3	4116	0	3881	129	0
1	4	4116	0	3881	126	0
1	5	4116	0	3881	133	0
1	6	4116	0	3881	135	0
1	7	4116	0	3881	128	0
1	8	4116	0	3881	129	0
1	A	4116	0	3881	129	0
1	B	4116	0	3881	131	0
1	C	4116	0	3881	131	0
1	D	4116	0	3881	126	0
1	E	4116	0	3881	128	0
1	F	4116	0	3881	131	0
1	G	4116	0	3881	133	0
1	H	4116	0	3881	134	0
1	I	4116	0	3881	126	0
1	J	4116	0	3881	135	0
1	K	4116	0	3881	128	0
1	L	4116	0	3881	130	0
1	M	4116	0	3881	127	0
1	N	4116	0	3881	131	0
1	O	4116	0	3881	131	0
1	P	4116	0	3881	130	0
1	Q	4116	0	3881	128	0
1	R	4116	0	3881	127	0
1	S	4116	0	3881	127	0
1	T	4116	0	3881	129	0
1	U	4116	0	3881	131	0
1	V	4116	0	3881	130	0
1	W	4116	0	3881	134	0
1	X	4116	0	3881	133	0
1	Y	4116	0	3881	127	0
1	Z	4116	0	3881	129	0
1	a	4116	0	3881	132	0
1	b	4116	0	3881	132	0
1	c	4116	0	3881	129	0
1	d	4116	0	3881	133	0
1	e	4116	0	3881	129	0
1	f	4116	0	3881	132	0
1	g	4116	0	3881	131	0
1	h	4116	0	3881	129	0
1	i	4116	0	3881	130	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4116	0	3881	130	0
1	k	4116	0	3881	128	0
1	l	4116	0	3881	133	0
1	m	4116	0	3881	128	0
1	n	4116	0	3881	133	0
1	o	4116	0	3881	130	0
1	p	4116	0	3881	131	0
1	q	4116	0	3881	127	0
1	r	4116	0	3881	128	0
1	s	4116	0	3881	131	0
1	t	4116	0	3881	130	0
1	u	4116	0	3881	127	0
1	v	4116	0	3881	127	0
1	w	4116	0	3881	128	0
1	x	4116	0	3881	128	0
1	y	4116	0	3881	132	0
1	z	4116	0	3881	130	0
All	All	246960	0	232860	5597	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 12.

All (5597) 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:I:490:SER:H	1:I:496:ASN:HD21	1.14	0.96
1:b:490:SER:H	1:b:496:ASN:HD21	1.14	0.96
1:u:490:SER:H	1:u:496:ASN:HD21	1.14	0.96
1:o:490:SER:H	1:o:496:ASN:HD21	1.14	0.96
1:J:490:SER:H	1:J:496:ASN:HD21	1.14	0.96
1:X:490:SER:H	1:X:496:ASN:HD21	1.14	0.96
1:f:490:SER:H	1:f:496:ASN:HD21	1.14	0.96
1:j:490:SER:H	1:j:496:ASN:HD21	1.14	0.96
1:2:490:SER:H	1:2:496:ASN:HD21	1.14	0.96
1:P:490:SER:H	1:P:496:ASN:HD21	1.14	0.96
1:B:490:SER:H	1:B:496:ASN:HD21	1.14	0.95
1:5:490:SER:H	1:5:496:ASN:HD21	1.14	0.95
1:H:490:SER:H	1:H:496:ASN:HD21	1.14	0.95
1:1:490:SER:H	1:1:496:ASN:HD21	1.14	0.95
1:3:490:SER:H	1:3:496:ASN:HD21	1.14	0.95
1:Z:490:SER:H	1:Z:496:ASN:HD21	1.14	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:490:SER:H	1:a:496:ASN:HD21	1.14	0.94
1:8:490:SER:H	1:8:496:ASN:HD21	1.14	0.94
1:F:490:SER:H	1:F:496:ASN:HD21	1.14	0.94
1:y:490:SER:H	1:y:496:ASN:HD21	1.14	0.94
1:7:490:SER:H	1:7:496:ASN:HD21	1.14	0.94
1:Y:490:SER:H	1:Y:496:ASN:HD21	1.14	0.93
1:x:490:SER:H	1:x:496:ASN:HD21	1.14	0.93
1:r:490:SER:H	1:r:496:ASN:HD21	1.14	0.93
1:L:490:SER:H	1:L:496:ASN:HD21	1.14	0.93
1:O:490:SER:H	1:O:496:ASN:HD21	1.14	0.93
1:R:490:SER:H	1:R:496:ASN:HD21	1.14	0.93
1:Q:490:SER:H	1:Q:496:ASN:HD21	1.14	0.93
1:z:490:SER:H	1:z:496:ASN:HD21	1.14	0.93
1:S:490:SER:H	1:S:496:ASN:HD21	1.14	0.93
1:w:490:SER:H	1:w:496:ASN:HD21	1.14	0.93
1:l:490:SER:H	1:l:496:ASN:HD21	1.14	0.93
1:q:490:SER:H	1:q:496:ASN:HD21	1.14	0.93
1:E:490:SER:H	1:E:496:ASN:HD21	1.14	0.93
1:c:490:SER:H	1:c:496:ASN:HD21	1.14	0.93
1:V:490:SER:H	1:V:496:ASN:HD21	1.14	0.92
1:e:490:SER:H	1:e:496:ASN:HD21	1.14	0.92
1:p:490:SER:H	1:p:496:ASN:HD21	1.14	0.92
1:4:490:SER:H	1:4:496:ASN:HD21	1.14	0.92
1:K:490:SER:H	1:K:496:ASN:HD21	1.14	0.92
1:M:490:SER:H	1:M:496:ASN:HD21	1.14	0.92
1:h:490:SER:H	1:h:496:ASN:HD21	1.14	0.92
1:6:490:SER:H	1:6:496:ASN:HD21	1.14	0.91
1:G:490:SER:H	1:G:496:ASN:HD21	1.14	0.91
1:U:490:SER:H	1:U:496:ASN:HD21	1.14	0.91
1:s:490:SER:H	1:s:496:ASN:HD21	1.14	0.91
1:W:490:SER:H	1:W:496:ASN:HD21	1.14	0.91
1:n:490:SER:H	1:n:496:ASN:HD21	1.14	0.90
1:t:490:SER:H	1:t:496:ASN:HD21	1.14	0.90
1:C:490:SER:H	1:C:496:ASN:HD21	1.14	0.90
1:d:490:SER:H	1:d:496:ASN:HD21	1.14	0.90
1:g:490:SER:H	1:g:496:ASN:HD21	1.14	0.90
1:D:490:SER:H	1:D:496:ASN:HD21	1.14	0.90
1:A:490:SER:H	1:A:496:ASN:HD21	1.14	0.90
1:v:490:SER:H	1:v:496:ASN:HD21	1.14	0.89
1:k:490:SER:H	1:k:496:ASN:HD21	1.14	0.89
1:T:490:SER:H	1:T:496:ASN:HD21	1.14	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:490:SER:H	1:m:496:ASN:HD21	1.14	0.88
1:N:490:SER:H	1:N:496:ASN:HD21	1.14	0.87
1:i:490:SER:H	1:i:496:ASN:HD21	1.14	0.87
1:L:302:ASN:HD21	1:L:701:TYR:H	1.25	0.85
1:z:302:ASN:HD21	1:z:701:TYR:H	1.25	0.85
1:R:302:ASN:HD21	1:R:701:TYR:H	1.25	0.85
1:N:302:ASN:HD21	1:N:701:TYR:H	1.25	0.85
1:q:302:ASN:HD21	1:q:701:TYR:H	1.25	0.85
1:Q:302:ASN:HD21	1:Q:701:TYR:H	1.25	0.85
1:i:302:ASN:HD21	1:i:701:TYR:H	1.25	0.85
1:l:302:ASN:HD21	1:l:701:TYR:H	1.25	0.85
1:B:302:ASN:HD21	1:B:701:TYR:H	1.25	0.84
1:e:302:ASN:HD21	1:e:701:TYR:H	1.25	0.84
1:c:302:ASN:HD21	1:c:701:TYR:H	1.25	0.84
1:x:302:ASN:HD21	1:x:701:TYR:H	1.25	0.84
1:M:302:ASN:HD21	1:M:701:TYR:H	1.25	0.84
1:X:302:ASN:HD21	1:X:701:TYR:H	1.25	0.84
1:a:302:ASN:HD21	1:a:701:TYR:H	1.25	0.84
1:d:302:ASN:HD21	1:d:701:TYR:H	1.25	0.84
1:h:302:ASN:HD21	1:h:701:TYR:H	1.25	0.84
1:o:302:ASN:HD21	1:o:701:TYR:H	1.25	0.84
1:3:302:ASN:HD21	1:3:701:TYR:H	1.25	0.84
1:n:302:ASN:HD21	1:n:701:TYR:H	1.25	0.84
1:g:302:ASN:HD21	1:g:701:TYR:H	1.25	0.84
1:O:302:ASN:HD21	1:O:701:TYR:H	1.25	0.83
1:l:302:ASN:HD21	1:l:701:TYR:H	1.25	0.83
1:w:302:ASN:HD21	1:w:701:TYR:H	1.25	0.83
1:C:302:ASN:HD21	1:C:701:TYR:H	1.25	0.83
1:E:302:ASN:HD21	1:E:701:TYR:H	1.25	0.83
1:j:302:ASN:HD21	1:j:701:TYR:H	1.25	0.83
1:s:302:ASN:HD21	1:s:701:TYR:H	1.25	0.83
1:v:302:ASN:HD21	1:v:701:TYR:H	1.25	0.83
1:A:302:ASN:HD21	1:A:701:TYR:H	1.25	0.83
1:P:302:ASN:HD21	1:P:701:TYR:H	1.25	0.83
1:U:302:ASN:HD21	1:U:701:TYR:H	1.25	0.83
1:k:302:ASN:HD21	1:k:701:TYR:H	1.25	0.83
1:D:302:ASN:HD21	1:D:701:TYR:H	1.25	0.83
1:Y:302:ASN:HD21	1:Y:701:TYR:H	1.25	0.83
1:7:302:ASN:HD21	1:7:701:TYR:H	1.25	0.83
1:y:302:ASN:HD21	1:y:701:TYR:H	1.25	0.83
1:F:302:ASN:HD21	1:F:701:TYR:H	1.25	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:302:ASN:HD21	1:4:701:TYR:H	1.25	0.82
1:m:302:ASN:HD21	1:m:701:TYR:H	1.25	0.82
1:K:302:ASN:HD21	1:K:701:TYR:H	1.25	0.82
1:G:302:ASN:HD21	1:G:701:TYR:H	1.25	0.82
1:T:302:ASN:HD21	1:T:701:TYR:H	1.25	0.82
1:t:302:ASN:HD21	1:t:701:TYR:H	1.25	0.82
1:r:302:ASN:HD21	1:r:701:TYR:H	1.25	0.81
1:b:302:ASN:HD21	1:b:701:TYR:H	1.25	0.81
1:p:302:ASN:HD21	1:p:701:TYR:H	1.25	0.81
1:I:302:ASN:HD21	1:I:701:TYR:H	1.25	0.81
1:S:302:ASN:HD21	1:S:701:TYR:H	1.25	0.81
1:V:302:ASN:HD21	1:V:701:TYR:H	1.25	0.81
1:Z:302:ASN:HD21	1:Z:701:TYR:H	1.25	0.81
1:f:302:ASN:HD21	1:f:701:TYR:H	1.25	0.81
1:2:302:ASN:HD21	1:2:701:TYR:H	1.25	0.81
1:u:302:ASN:HD21	1:u:701:TYR:H	1.25	0.81
1:8:302:ASN:HD21	1:8:701:TYR:H	1.25	0.81
1:H:302:ASN:HD21	1:H:701:TYR:H	1.25	0.80
1:J:302:ASN:HD21	1:J:701:TYR:H	1.25	0.80
1:5:302:ASN:HD21	1:5:701:TYR:H	1.25	0.80
1:6:302:ASN:HD21	1:6:701:TYR:H	1.25	0.80
1:W:302:ASN:HD21	1:W:701:TYR:H	1.25	0.80
1:B:354:VAL:H	1:B:646:GLN:NE2	1.81	0.79
1:x:354:VAL:H	1:x:646:GLN:NE2	1.81	0.79
1:Q:354:VAL:H	1:Q:646:GLN:NE2	1.81	0.79
1:a:354:VAL:H	1:a:646:GLN:NE2	1.81	0.79
1:1:354:VAL:H	1:1:646:GLN:NE2	1.81	0.79
1:F:354:VAL:H	1:F:646:GLN:NE2	1.81	0.79
1:P:354:VAL:H	1:P:646:GLN:NE2	1.81	0.79
1:y:354:VAL:H	1:y:646:GLN:NE2	1.81	0.79
1:3:354:VAL:H	1:3:646:GLN:NE2	1.81	0.79
1:j:354:VAL:H	1:j:646:GLN:NE2	1.81	0.78
1:7:354:VAL:H	1:7:646:GLN:NE2	1.81	0.78
1:D:354:VAL:H	1:D:646:GLN:NE2	1.81	0.78
1:M:354:VAL:H	1:M:646:GLN:NE2	1.81	0.78
1:Y:354:VAL:H	1:Y:646:GLN:NE2	1.81	0.78
1:h:354:VAL:H	1:h:646:GLN:NE2	1.81	0.78
1:k:354:VAL:H	1:k:646:GLN:NE2	1.81	0.78
1:z:354:VAL:H	1:z:646:GLN:NE2	1.81	0.78
1:E:354:VAL:H	1:E:646:GLN:NE2	1.81	0.78
1:L:354:VAL:H	1:L:646:GLN:NE2	1.81	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:354:VAL:H	1:V:646:GLN:NE2	1.81	0.78
1:p:354:VAL:H	1:p:646:GLN:NE2	1.81	0.78
1:w:354:VAL:H	1:w:646:GLN:NE2	1.81	0.78
1:8:354:VAL:H	1:8:646:GLN:NE2	1.81	0.78
1:N:354:VAL:H	1:N:646:GLN:NE2	1.81	0.78
1:T:354:VAL:H	1:T:646:GLN:NE2	1.81	0.78
1:m:354:VAL:H	1:m:646:GLN:NE2	1.81	0.78
1:Z:354:VAL:H	1:Z:646:GLN:NE2	1.81	0.78
1:W:354:VAL:H	1:W:646:GLN:NE2	1.81	0.78
1:X:354:VAL:H	1:X:646:GLN:NE2	1.81	0.78
1:i:354:VAL:H	1:i:646:GLN:NE2	1.81	0.78
1:o:354:VAL:H	1:o:646:GLN:NE2	1.81	0.78
1:6:354:VAL:H	1:6:646:GLN:NE2	1.81	0.78
1:J:354:VAL:H	1:J:646:GLN:NE2	1.81	0.78
1:t:354:VAL:H	1:t:646:GLN:NE2	1.81	0.78
1:u:354:VAL:H	1:u:646:GLN:NE2	1.81	0.78
1:G:354:VAL:H	1:G:646:GLN:NE2	1.81	0.77
1:d:354:VAL:H	1:d:646:GLN:NE2	1.81	0.77
1:g:354:VAL:H	1:g:646:GLN:NE2	1.81	0.77
1:C:354:VAL:H	1:C:646:GLN:NE2	1.81	0.77
1:I:354:VAL:H	1:I:646:GLN:NE2	1.81	0.77
1:S:354:VAL:H	1:S:646:GLN:NE2	1.81	0.77
1:n:354:VAL:H	1:n:646:GLN:NE2	1.81	0.77
1:2:354:VAL:H	1:2:646:GLN:NE2	1.81	0.77
1:4:354:VAL:H	1:4:646:GLN:NE2	1.81	0.77
1:f:354:VAL:H	1:f:646:GLN:NE2	1.81	0.77
1:K:354:VAL:H	1:K:646:GLN:NE2	1.81	0.77
1:b:354:VAL:H	1:b:646:GLN:NE2	1.81	0.77
1:e:354:VAL:H	1:e:646:GLN:NE2	1.81	0.77
1:r:354:VAL:H	1:r:646:GLN:NE2	1.81	0.77
1:c:354:VAL:H	1:c:646:GLN:NE2	1.81	0.77
1:q:354:VAL:H	1:q:646:GLN:NE2	1.81	0.77
1:v:354:VAL:H	1:v:646:GLN:NE2	1.81	0.77
1:A:354:VAL:H	1:A:646:GLN:NE2	1.81	0.77
1:5:354:VAL:H	1:5:646:GLN:NE2	1.81	0.77
1:R:354:VAL:H	1:R:646:GLN:NE2	1.81	0.77
1:H:354:VAL:H	1:H:646:GLN:NE2	1.81	0.77
1:s:354:VAL:H	1:s:646:GLN:NE2	1.81	0.77
1:U:354:VAL:H	1:U:646:GLN:NE2	1.81	0.76
1:l:354:VAL:H	1:l:646:GLN:NE2	1.81	0.76
1:O:354:VAL:H	1:O:646:GLN:NE2	1.81	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:278:THR:HG22	1:h:280:TRP:H	1.52	0.75
1:C:278:THR:HG22	1:C:280:TRP:H	1.52	0.75
1:R:278:THR:HG22	1:R:280:TRP:H	1.52	0.75
1:X:278:THR:HG22	1:X:280:TRP:H	1.52	0.75
1:g:278:THR:HG22	1:g:280:TRP:H	1.52	0.75
1:o:278:THR:HG22	1:o:280:TRP:H	1.52	0.75
1:M:278:THR:HG22	1:M:280:TRP:H	1.52	0.75
1:P:278:THR:HG22	1:P:280:TRP:H	1.52	0.75
1:S:278:THR:HG22	1:S:280:TRP:H	1.52	0.75
1:e:278:THR:HG22	1:e:280:TRP:H	1.52	0.75
1:j:278:THR:HG22	1:j:280:TRP:H	1.52	0.75
1:q:278:THR:HG22	1:q:280:TRP:H	1.52	0.75
1:z:278:THR:HG22	1:z:280:TRP:H	1.52	0.75
1:L:278:THR:HG22	1:L:280:TRP:H	1.52	0.75
1:W:278:THR:HG22	1:W:280:TRP:H	1.52	0.75
1:r:278:THR:HG22	1:r:280:TRP:H	1.52	0.75
1:6:278:THR:HG22	1:6:280:TRP:H	1.52	0.75
1:Q:278:THR:HG22	1:Q:280:TRP:H	1.52	0.75
1:c:278:THR:HG22	1:c:280:TRP:H	1.52	0.75
1:i:278:THR:HG22	1:i:280:TRP:H	1.52	0.75
1:H:278:THR:HG22	1:H:280:TRP:H	1.52	0.75
1:N:278:THR:HG22	1:N:280:TRP:H	1.52	0.75
1:x:278:THR:HG22	1:x:280:TRP:H	1.52	0.75
1:5:278:THR:HG22	1:5:280:TRP:H	1.52	0.75
1:B:278:THR:HG22	1:B:280:TRP:H	1.52	0.75
1:V:278:THR:HG22	1:V:280:TRP:H	1.52	0.75
1:Z:278:THR:HG22	1:Z:280:TRP:H	1.52	0.75
1:p:278:THR:HG22	1:p:280:TRP:H	1.52	0.75
1:n:278:THR:HG22	1:n:280:TRP:H	1.52	0.75
1:l:278:THR:HG22	1:l:280:TRP:H	1.52	0.75
1:A:278:THR:HG22	1:A:280:TRP:H	1.52	0.74
1:I:278:THR:HG22	1:I:280:TRP:H	1.52	0.74
1:d:278:THR:HG22	1:d:280:TRP:H	1.52	0.74
1:v:278:THR:HG22	1:v:280:TRP:H	1.52	0.74
1:3:278:THR:HG22	1:3:280:TRP:H	1.52	0.74
1:u:278:THR:HG22	1:u:280:TRP:H	1.52	0.74
1:8:278:THR:HG22	1:8:280:TRP:H	1.52	0.74
1:F:278:THR:HG22	1:F:280:TRP:H	1.52	0.74
1:a:278:THR:HG22	1:a:280:TRP:H	1.52	0.74
1:y:278:THR:HG22	1:y:280:TRP:H	1.52	0.74
1:t:278:THR:HG22	1:t:280:TRP:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:278:THR:HG22	1:4:280:TRP:H	1.52	0.74
1:f:278:THR:HG22	1:f:280:TRP:H	1.52	0.74
1:G:278:THR:HG22	1:G:280:TRP:H	1.52	0.74
1:m:278:THR:HG22	1:m:280:TRP:H	1.52	0.74
1:K:278:THR:HG22	1:K:280:TRP:H	1.52	0.73
1:7:278:THR:HG22	1:7:280:TRP:H	1.52	0.73
1:T:278:THR:HG22	1:T:280:TRP:H	1.52	0.73
1:b:278:THR:HG22	1:b:280:TRP:H	1.52	0.73
1:Y:278:THR:HG22	1:Y:280:TRP:H	1.52	0.73
1:l:278:THR:HG22	1:l:280:TRP:H	1.52	0.73
1:2:278:THR:HG22	1:2:280:TRP:H	1.52	0.73
1:k:278:THR:HG22	1:k:280:TRP:H	1.52	0.73
1:O:278:THR:HG22	1:O:280:TRP:H	1.52	0.73
1:D:278:THR:HG22	1:D:280:TRP:H	1.52	0.73
1:J:278:THR:HG22	1:J:280:TRP:H	1.52	0.73
1:U:278:THR:HG22	1:U:280:TRP:H	1.52	0.73
1:s:278:THR:HG22	1:s:280:TRP:H	1.52	0.72
1:w:278:THR:HG22	1:w:280:TRP:H	1.52	0.72
1:E:278:THR:HG22	1:E:280:TRP:H	1.52	0.72
1:E:497:ASN:HD22	1:F:590:ASP:HA	1.56	0.71
1:Q:570:ASN:HD21	1:Q:608:GLN:H	1.39	0.71
1:Z:497:ASN:HD22	1:3:590:ASP:HA	1.56	0.71
1:Z:570:ASN:HD21	1:Z:608:GLN:H	1.39	0.71
1:o:570:ASN:HD21	1:o:608:GLN:H	1.39	0.71
1:w:497:ASN:HD22	1:y:590:ASP:HA	1.56	0.71
1:8:570:ASN:HD21	1:8:608:GLN:H	1.39	0.71
1:K:497:ASN:HD22	1:8:590:ASP:HA	1.56	0.71
1:M:497:ASN:HD22	1:b:590:ASP:HA	1.54	0.71
1:Z:590:ASP:HA	1:4:497:ASN:HD22	1.56	0.71
1:x:570:ASN:HD21	1:x:608:GLN:H	1.39	0.71
1:R:590:ASP:HA	1:S:497:ASN:HD22	1.56	0.71
1:X:570:ASN:HD21	1:X:608:GLN:H	1.39	0.71
1:a:590:ASP:HA	1:8:497:ASN:HD22	1.56	0.71
1:q:590:ASP:HA	1:r:497:ASN:HD22	1.56	0.71
1:4:570:ASN:HD21	1:4:608:GLN:H	1.39	0.71
1:J:590:ASP:HA	1:L:497:ASN:HD22	1.56	0.71
1:K:570:ASN:HD21	1:K:608:GLN:H	1.39	0.71
1:M:570:ASN:HD21	1:M:608:GLN:H	1.39	0.71
1:F:497:ASN:HD22	1:Q:590:ASP:HA	1.56	0.71
1:c:590:ASP:HA	1:o:497:ASN:HD22	1.56	0.71
1:h:570:ASN:HD21	1:h:608:GLN:H	1.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:497:ASN:HD22	1:v:590:ASP:HA	1.56	0.71
1:x:590:ASP:HA	1:y:497:ASN:HD22	1.56	0.71
1:z:497:ASN:HD22	1:2:590:ASP:HA	1.56	0.71
1:A:590:ASP:HA	1:G:497:ASN:HD22	1.56	0.71
1:O:497:ASN:HD22	1:n:590:ASP:HA	1.56	0.71
1:T:570:ASN:HD21	1:T:608:GLN:H	1.39	0.71
1:X:497:ASN:HD22	1:e:590:ASP:HA	1.56	0.71
1:W:570:ASN:HD21	1:W:608:GLN:H	1.39	0.71
1:d:590:ASP:HA	1:l:497:ASN:HD22	1.56	0.71
1:m:570:ASN:HD21	1:m:608:GLN:H	1.39	0.71
1:3:497:ASN:HD22	1:4:590:ASP:HA	1.56	0.70
1:K:590:ASP:HA	1:a:497:ASN:HD22	1.56	0.70
1:O:590:ASP:HA	1:m:497:ASN:HD22	1.56	0.70
1:T:497:ASN:HD22	1:l:590:ASP:HA	1.56	0.70
1:T:590:ASP:HA	1:d:497:ASN:HD22	1.56	0.70
1:r:590:ASP:HA	1:s:497:ASN:HD22	1.56	0.70
1:6:570:ASN:HD21	1:6:608:GLN:H	1.39	0.70
1:B:497:ASN:HD22	1:L:590:ASP:HA	1.56	0.70
1:B:570:ASN:HD21	1:B:608:GLN:H	1.39	0.70
1:H:590:ASP:HA	1:W:497:ASN:HD22	1.56	0.70
1:S:590:ASP:HA	1:U:497:ASN:HD22	1.56	0.70
1:f:497:ASN:HD22	1:g:590:ASP:HA	1.56	0.70
1:f:590:ASP:HA	1:h:497:ASN:HD22	1.56	0.70
1:z:590:ASP:HA	1:1:497:ASN:HD22	1.56	0.70
1:L:570:ASN:HD21	1:L:608:GLN:H	1.39	0.70
1:V:497:ASN:HD22	1:X:590:ASP:HA	1.56	0.70
1:i:590:ASP:HA	1:j:497:ASN:HD22	1.56	0.70
1:m:590:ASP:HA	1:n:497:ASN:HD22	1.56	0.70
1:o:590:ASP:HA	1:p:497:ASN:HD22	1.56	0.70
1:z:570:ASN:HD21	1:z:608:GLN:H	1.39	0.70
1:1:570:ASN:HD21	1:1:608:GLN:H	1.39	0.70
1:C:590:ASP:HA	1:b:497:ASN:HD22	1.56	0.70
1:E:270:ASP:HA	1:E:514:ARG:HG3	1.74	0.70
1:R:570:ASN:HD21	1:R:608:GLN:H	1.39	0.70
1:V:590:ASP:HA	1:e:497:ASN:HD22	1.56	0.70
1:b:570:ASN:HD21	1:b:608:GLN:H	1.39	0.70
1:c:497:ASN:HD22	1:p:590:ASP:HA	1.56	0.70
1:q:570:ASN:HD21	1:q:608:GLN:H	1.39	0.70
1:B:590:ASP:HA	1:J:497:ASN:HD22	1.56	0.70
1:D:570:ASN:HD21	1:D:608:GLN:H	1.39	0.70
1:O:270:ASP:HA	1:O:514:ARG:HG3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:270:ASP:HA	1:R:514:ARG:HG3	1.74	0.70
1:a:570:ASN:HD21	1:a:608:GLN:H	1.39	0.70
1:f:570:ASN:HD21	1:f:608:GLN:H	1.39	0.70
1:g:497:ASN:HD22	1:h:590:ASP:HA	1.56	0.70
1:l:270:ASP:HA	1:l:514:ARG:HG3	1.74	0.70
1:q:270:ASP:HA	1:q:514:ARG:HG3	1.74	0.70
1:v:570:ASN:HD21	1:v:608:GLN:H	1.39	0.70
1:w:270:ASP:HA	1:w:514:ARG:HG3	1.74	0.70
1:3:570:ASN:HD21	1:3:608:GLN:H	1.39	0.70
1:5:590:ASP:HA	1:6:497:ASN:HD22	1.56	0.70
1:D:270:ASP:HA	1:D:514:ARG:HG3	1.74	0.70
1:F:270:ASP:HA	1:F:514:ARG:HG3	1.74	0.70
1:F:570:ASN:HD21	1:F:608:GLN:H	1.39	0.70
1:N:590:ASP:HA	1:P:497:ASN:HD22	1.56	0.70
1:k:270:ASP:HA	1:k:514:ARG:HG3	1.74	0.70
1:k:570:ASN:HD21	1:k:608:GLN:H	1.39	0.70
1:t:590:ASP:HA	1:u:497:ASN:HD22	1.56	0.70
1:y:270:ASP:HA	1:y:514:ARG:HG3	1.74	0.70
1:y:570:ASN:HD21	1:y:608:GLN:H	1.39	0.70
1:1:590:ASP:HA	1:2:497:ASN:HD22	1.56	0.70
1:A:570:ASN:HD21	1:A:608:GLN:H	1.39	0.70
1:C:497:ASN:HD22	1:M:590:ASP:HA	1.56	0.70
1:C:570:ASN:HD21	1:C:608:GLN:H	1.39	0.70
1:G:590:ASP:HA	1:I:497:ASN:HD22	1.56	0.70
1:V:570:ASN:HD21	1:V:608:GLN:H	1.39	0.70
1:c:570:ASN:HD21	1:c:608:GLN:H	1.39	0.70
1:e:570:ASN:HD21	1:e:608:GLN:H	1.39	0.70
1:i:497:ASN:HD22	1:k:590:ASP:HA	1.56	0.70
1:t:570:ASN:HD21	1:t:608:GLN:H	1.39	0.70
1:8:270:ASP:HA	1:8:514:ARG:HG3	1.74	0.70
1:C:270:ASP:HA	1:C:514:ARG:HG3	1.74	0.70
1:S:570:ASN:HD21	1:S:608:GLN:H	1.39	0.70
1:W:590:ASP:HA	1:Y:497:ASN:HD22	1.56	0.70
1:Z:270:ASP:HA	1:Z:514:ARG:HG3	1.74	0.70
1:b:270:ASP:HA	1:b:514:ARG:HG3	1.74	0.70
1:f:270:ASP:HA	1:f:514:ARG:HG3	1.74	0.70
1:r:570:ASN:HD21	1:r:608:GLN:H	1.39	0.70
1:A:270:ASP:HA	1:A:514:ARG:HG3	1.74	0.70
1:D:590:ASP:HA	1:N:497:ASN:HD22	1.56	0.70
1:H:270:ASP:HA	1:H:514:ARG:HG3	1.74	0.70
1:U:570:ASN:HD21	1:U:608:GLN:H	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:270:ASP:HA	1:V:514:ARG:HG3	1.74	0.70
1:g:270:ASP:HA	1:g:514:ARG:HG3	1.74	0.70
1:j:270:ASP:HA	1:j:514:ARG:HG3	1.74	0.70
1:p:270:ASP:HA	1:p:514:ARG:HG3	1.74	0.70
1:p:570:ASN:HD21	1:p:608:GLN:H	1.39	0.70
1:v:270:ASP:HA	1:v:514:ARG:HG3	1.74	0.70
1:w:570:ASN:HD21	1:w:608:GLN:H	1.39	0.70
1:5:270:ASP:HA	1:5:514:ARG:HG3	1.74	0.70
1:A:497:ASN:HD22	1:I:590:ASP:HA	1.56	0.69
1:L:270:ASP:HA	1:L:514:ARG:HG3	1.74	0.69
1:P:270:ASP:HA	1:P:514:ARG:HG3	1.74	0.69
1:T:270:ASP:HA	1:T:514:ARG:HG3	1.74	0.69
1:g:570:ASN:HD21	1:g:608:GLN:H	1.39	0.69
1:l:570:ASN:HD21	1:l:608:GLN:H	1.39	0.69
1:m:270:ASP:HA	1:m:514:ARG:HG3	1.74	0.69
1:s:570:ASN:HD21	1:s:608:GLN:H	1.39	0.69
1:z:270:ASP:HA	1:z:514:ARG:HG3	1.74	0.69
1:G:570:ASN:HD21	1:G:608:GLN:H	1.39	0.69
1:O:570:ASN:HD21	1:O:608:GLN:H	1.39	0.69
1:Q:270:ASP:HA	1:Q:514:ARG:HG3	1.74	0.69
1:q:497:ASN:HD22	1:s:590:ASP:HA	1.56	0.69
1:6:590:ASP:HA	1:7:497:ASN:HD22	1.56	0.69
1:D:497:ASN:HD22	1:P:590:ASP:HA	1.56	0.69
1:x:270:ASP:HA	1:x:514:ARG:HG3	1.74	0.69
1:5:497:ASN:HD22	1:7:590:ASP:HA	1.56	0.69
1:E:570:ASN:HD21	1:E:608:GLN:H	1.39	0.69
1:E:590:ASP:HA	1:Q:497:ASN:HD22	1.56	0.69
1:u:590:ASP:HA	1:v:497:ASN:HD22	1.56	0.69
1:G:270:ASP:HA	1:G:514:ARG:HG3	1.74	0.69
1:H:497:ASN:HD22	1:Y:590:ASP:HA	1.56	0.69
1:I:570:ASN:HD21	1:I:608:GLN:H	1.39	0.69
1:j:590:ASP:HA	1:k:497:ASN:HD22	1.56	0.69
1:I:270:ASP:HA	1:I:514:ARG:HG3	1.74	0.69
1:J:270:ASP:HA	1:J:514:ARG:HG3	1.74	0.69
1:R:497:ASN:HD22	1:U:590:ASP:HA	1.56	0.69
1:S:270:ASP:HA	1:S:514:ARG:HG3	1.74	0.69
1:U:270:ASP:HA	1:U:514:ARG:HG3	1.74	0.69
1:Y:270:ASP:HA	1:Y:514:ARG:HG3	1.74	0.69
1:r:270:ASP:HA	1:r:514:ARG:HG3	1.74	0.69
1:s:270:ASP:HA	1:s:514:ARG:HG3	1.74	0.69
1:t:270:ASP:HA	1:t:514:ARG:HG3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:270:ASP:HA	1:2:514:ARG:HG3	1.74	0.69
1:u:570:ASN:HD21	1:u:608:GLN:H	1.39	0.69
1:w:590:ASP:HA	1:x:497:ASN:HD22	1.56	0.69
1:3:270:ASP:HA	1:3:514:ARG:HG3	1.74	0.69
1:B:270:ASP:HA	1:B:514:ARG:HG3	1.74	0.69
1:K:270:ASP:HA	1:K:514:ARG:HG3	1.74	0.69
1:N:570:ASN:HD21	1:N:608:GLN:H	1.39	0.69
1:P:570:ASN:HD21	1:P:608:GLN:H	1.39	0.69
1:a:270:ASP:HA	1:a:514:ARG:HG3	1.74	0.69
1:c:270:ASP:HA	1:c:514:ARG:HG3	1.74	0.69
1:e:270:ASP:HA	1:e:514:ARG:HG3	1.74	0.69
1:j:570:ASN:HD21	1:j:608:GLN:H	1.39	0.69
1:n:270:ASP:HA	1:n:514:ARG:HG3	1.74	0.69
1:u:270:ASP:HA	1:u:514:ARG:HG3	1.74	0.69
1:1:270:ASP:HA	1:1:514:ARG:HG3	1.74	0.69
1:4:270:ASP:HA	1:4:514:ARG:HG3	1.74	0.69
1:7:270:ASP:HA	1:7:514:ARG:HG3	1.74	0.69
1:i:570:ASN:HD21	1:i:608:GLN:H	1.39	0.69
1:5:570:ASN:HD21	1:5:608:GLN:H	1.39	0.69
1:H:570:ASN:HD21	1:H:608:GLN:H	1.39	0.69
1:N:270:ASP:HA	1:N:514:ARG:HG3	1.74	0.69
1:d:270:ASP:HA	1:d:514:ARG:HG3	1.74	0.69
1:2:570:ASN:HD21	1:2:608:GLN:H	1.39	0.69
1:J:570:ASN:HD21	1:J:608:GLN:H	1.39	0.68
1:M:270:ASP:HA	1:M:514:ARG:HG3	1.74	0.68
1:W:270:ASP:HA	1:W:514:ARG:HG3	1.74	0.68
1:6:270:ASP:HA	1:6:514:ARG:HG3	1.74	0.68
1:X:270:ASP:HA	1:X:514:ARG:HG3	1.74	0.68
1:Y:570:ASN:HD21	1:Y:608:GLN:H	1.39	0.68
1:d:570:ASN:HD21	1:d:608:GLN:H	1.39	0.68
1:h:270:ASP:HA	1:h:514:ARG:HG3	1.74	0.68
1:i:270:ASP:HA	1:i:514:ARG:HG3	1.74	0.68
1:7:570:ASN:HD21	1:7:608:GLN:H	1.39	0.68
1:n:570:ASN:HD21	1:n:608:GLN:H	1.39	0.68
1:o:270:ASP:HA	1:o:514:ARG:HG3	1.74	0.68
1:C:615:GLN:HE22	1:C:726:PRO:HA	1.59	0.68
1:D:576:ARG:NH2	1:N:515:GLU:OE2	2.26	0.68
1:F:515:GLU:OE2	1:Q:576:ARG:NH2	2.26	0.68
1:d:615:GLN:HE22	1:d:726:PRO:HA	1.59	0.68
1:g:615:GLN:HE22	1:g:726:PRO:HA	1.59	0.68
1:n:615:GLN:HE22	1:n:726:PRO:HA	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:615:GLN:HE22	1:H:726:PRO:HA	1.59	0.68
1:b:615:GLN:HE22	1:b:726:PRO:HA	1.59	0.68
1:f:615:GLN:HE22	1:f:726:PRO:HA	1.59	0.68
1:i:515:GLU:OE2	1:k:576:ARG:NH2	2.26	0.68
1:m:615:GLN:HE22	1:m:726:PRO:HA	1.59	0.68
1:x:576:ARG:NH2	1:y:515:GLU:OE2	2.26	0.68
1:5:615:GLN:HE22	1:5:726:PRO:HA	1.59	0.68
1:M:615:GLN:HE22	1:M:726:PRO:HA	1.59	0.68
1:O:615:GLN:HE22	1:O:726:PRO:HA	1.59	0.68
1:Q:615:GLN:HE22	1:Q:726:PRO:HA	1.59	0.68
1:T:615:GLN:HE22	1:T:726:PRO:HA	1.59	0.68
1:j:615:GLN:HE22	1:j:726:PRO:HA	1.59	0.68
1:x:615:GLN:HE22	1:x:726:PRO:HA	1.59	0.68
1:D:615:GLN:HE22	1:D:726:PRO:HA	1.59	0.68
1:P:615:GLN:HE22	1:P:726:PRO:HA	1.59	0.68
1:S:397:GLU:OE2	1:S:650:LYS:NZ	2.27	0.68
1:T:397:GLU:OE2	1:T:650:LYS:NZ	2.27	0.68
1:U:615:GLN:HE22	1:U:726:PRO:HA	1.59	0.68
1:h:615:GLN:HE22	1:h:726:PRO:HA	1.59	0.68
1:l:615:GLN:HE22	1:l:726:PRO:HA	1.59	0.68
1:m:397:GLU:OE2	1:m:650:LYS:NZ	2.27	0.68
1:r:397:GLU:OE2	1:r:650:LYS:NZ	2.27	0.68
1:a:615:GLN:HE22	1:a:726:PRO:HA	1.59	0.68
1:p:615:GLN:HE22	1:p:726:PRO:HA	1.59	0.68
1:s:615:GLN:HE22	1:s:726:PRO:HA	1.59	0.68
1:E:515:GLU:OE2	1:F:576:ARG:NH2	2.26	0.67
1:P:397:GLU:OE2	1:P:650:LYS:NZ	2.27	0.67
1:X:615:GLN:HE22	1:X:726:PRO:HA	1.59	0.67
1:j:397:GLU:OE2	1:j:650:LYS:NZ	2.27	0.67
1:o:615:GLN:HE22	1:o:726:PRO:HA	1.59	0.67
1:w:397:GLU:OE2	1:w:650:LYS:NZ	2.27	0.67
1:3:615:GLN:HE22	1:3:726:PRO:HA	1.59	0.67
1:E:397:GLU:OE2	1:E:650:LYS:NZ	2.27	0.67
1:K:615:GLN:HE22	1:K:726:PRO:HA	1.59	0.67
1:R:515:GLU:OE2	1:U:576:ARG:NH2	2.26	0.67
1:R:576:ARG:NH2	1:S:515:GLU:OE2	2.26	0.67
1:V:615:GLN:HE22	1:V:726:PRO:HA	1.59	0.67
1:i:615:GLN:HE22	1:i:726:PRO:HA	1.59	0.67
1:k:615:GLN:HE22	1:k:726:PRO:HA	1.59	0.67
1:w:515:GLU:OE2	1:y:576:ARG:NH2	2.26	0.67
1:8:397:GLU:OE2	1:8:650:LYS:NZ	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:397:GLU:OE2	1:Z:650:LYS:NZ	2.27	0.67
1:q:515:GLU:OE2	1:s:576:ARG:NH2	2.26	0.67
1:1:397:GLU:OE2	1:1:650:LYS:NZ	2.27	0.67
1:A:615:GLN:HE22	1:A:726:PRO:HA	1.59	0.67
1:B:397:GLU:OE2	1:B:650:LYS:NZ	2.27	0.67
1:C:397:GLU:OE2	1:C:650:LYS:NZ	2.27	0.67
1:G:615:GLN:HE22	1:G:726:PRO:HA	1.59	0.67
1:J:615:GLN:HE22	1:J:726:PRO:HA	1.59	0.67
1:N:615:GLN:HE22	1:N:726:PRO:HA	1.59	0.67
1:O:576:ARG:NH2	1:m:515:GLU:OE2	2.26	0.67
1:g:397:GLU:OE2	1:g:650:LYS:NZ	2.27	0.67
1:q:576:ARG:NH2	1:r:515:GLU:OE2	2.26	0.67
1:t:615:GLN:HE22	1:t:726:PRO:HA	1.59	0.67
1:v:615:GLN:HE22	1:v:726:PRO:HA	1.59	0.67
1:3:397:GLU:OE2	1:3:650:LYS:NZ	2.27	0.67
1:D:515:GLU:OE2	1:P:576:ARG:NH2	2.26	0.67
1:K:397:GLU:OE2	1:K:650:LYS:NZ	2.27	0.67
1:O:397:GLU:OE2	1:O:650:LYS:NZ	2.27	0.67
1:T:515:GLU:OE2	1:l:576:ARG:NH2	2.26	0.67
1:W:576:ARG:NH2	1:Y:515:GLU:OE2	2.26	0.67
1:2:615:GLN:HE22	1:2:726:PRO:HA	1.59	0.67
1:4:615:GLN:HE22	1:4:726:PRO:HA	1.59	0.67
1:6:576:ARG:NH2	1:7:515:GLU:OE2	2.26	0.67
1:C:576:ARG:NH2	1:b:515:GLU:OE2	2.26	0.67
1:S:615:GLN:HE22	1:S:726:PRO:HA	1.59	0.67
1:j:576:ARG:NH2	1:k:515:GLU:OE2	2.26	0.67
1:l:397:GLU:OE2	1:l:650:LYS:NZ	2.27	0.67
1:r:615:GLN:HE22	1:r:726:PRO:HA	1.59	0.67
1:4:397:GLU:OE2	1:4:650:LYS:NZ	2.27	0.67
1:5:515:GLU:OE2	1:7:576:ARG:NH2	2.26	0.67
1:w:615:GLN:HE22	1:w:726:PRO:HA	1.59	0.67
1:E:615:GLN:HE22	1:E:726:PRO:HA	1.59	0.67
1:H:515:GLU:OE2	1:Y:576:ARG:NH2	2.26	0.67
1:f:515:GLU:OE2	1:g:576:ARG:NH2	2.26	0.67
1:s:397:GLU:OE2	1:s:650:LYS:NZ	2.27	0.67
1:U:397:GLU:OE2	1:U:650:LYS:NZ	2.27	0.67
1:D:397:GLU:OE2	1:D:650:LYS:NZ	2.27	0.67
1:q:615:GLN:HE22	1:q:726:PRO:HA	1.59	0.67
1:A:397:GLU:OE2	1:A:650:LYS:NZ	2.27	0.66
1:L:397:GLU:OE2	1:L:650:LYS:NZ	2.27	0.66
1:L:615:GLN:HE22	1:L:726:PRO:HA	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:615:GLN:HE22	1:Y:726:PRO:HA	1.59	0.66
1:c:615:GLN:HE22	1:c:726:PRO:HA	1.59	0.66
1:k:397:GLU:OE2	1:k:650:LYS:NZ	2.27	0.66
1:u:397:GLU:OE2	1:u:650:LYS:NZ	2.27	0.66
1:z:615:GLN:HE22	1:z:726:PRO:HA	1.59	0.66
1:F:615:GLN:HE22	1:F:726:PRO:HA	1.59	0.66
1:I:397:GLU:OE2	1:I:650:LYS:NZ	2.27	0.66
1:K:576:ARG:NH2	1:a:515:GLU:OE2	2.26	0.66
1:R:615:GLN:HE22	1:R:726:PRO:HA	1.59	0.66
1:X:397:GLU:OE2	1:X:650:LYS:NZ	2.27	0.66
1:e:615:GLN:HE22	1:e:726:PRO:HA	1.59	0.66
1:v:397:GLU:OE2	1:v:650:LYS:NZ	2.27	0.66
1:3:515:GLU:OE2	1:4:576:ARG:NH2	2.26	0.66
1:7:615:GLN:HE22	1:7:726:PRO:HA	1.59	0.66
1:V:397:GLU:OE2	1:V:650:LYS:NZ	2.27	0.66
1:W:397:GLU:OE2	1:W:650:LYS:NZ	2.27	0.66
1:c:397:GLU:OE2	1:c:650:LYS:NZ	2.27	0.66
1:e:397:GLU:OE2	1:e:650:LYS:NZ	2.27	0.66
1:o:397:GLU:OE2	1:o:650:LYS:NZ	2.27	0.66
1:p:397:GLU:OE2	1:p:650:LYS:NZ	2.27	0.66
1:z:397:GLU:OE2	1:z:650:LYS:NZ	2.27	0.66
1:6:397:GLU:OE2	1:6:650:LYS:NZ	2.27	0.66
1:d:397:GLU:OE2	1:d:650:LYS:NZ	2.27	0.66
1:i:397:GLU:OE2	1:i:650:LYS:NZ	2.27	0.66
1:n:397:GLU:OE2	1:n:650:LYS:NZ	2.27	0.66
1:y:615:GLN:HE22	1:y:726:PRO:HA	1.59	0.66
1:G:576:ARG:NH2	1:I:515:GLU:OE2	2.26	0.66
1:Q:397:GLU:OE2	1:Q:650:LYS:NZ	2.27	0.66
1:b:397:GLU:OE2	1:b:650:LYS:NZ	2.27	0.66
1:f:397:GLU:OE2	1:f:650:LYS:NZ	2.27	0.66
1:t:576:ARG:NH2	1:u:515:GLU:OE2	2.26	0.66
1:B:615:GLN:HE22	1:B:726:PRO:HA	1.59	0.66
1:H:397:GLU:OE2	1:H:650:LYS:NZ	2.27	0.66
1:J:397:GLU:OE2	1:J:650:LYS:NZ	2.27	0.66
1:N:397:GLU:OE2	1:N:650:LYS:NZ	2.27	0.66
1:W:615:GLN:HE22	1:W:726:PRO:HA	1.59	0.66
1:x:397:GLU:OE2	1:x:650:LYS:NZ	2.27	0.66
1:5:397:GLU:OE2	1:5:650:LYS:NZ	2.27	0.66
1:G:397:GLU:OE2	1:G:650:LYS:NZ	2.27	0.66
1:H:576:ARG:NH2	1:W:515:GLU:OE2	2.26	0.66
1:l:615:GLN:HE22	1:l:726:PRO:HA	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:576:ARG:NH2	1:6:515:GLU:OE2	2.26	0.66
1:6:615:GLN:HE22	1:6:726:PRO:HA	1.59	0.66
1:q:397:GLU:OE2	1:q:650:LYS:NZ	2.27	0.66
1:t:397:GLU:OE2	1:t:650:LYS:NZ	2.27	0.66
1:2:397:GLU:OE2	1:2:650:LYS:NZ	2.27	0.66
1:8:615:GLN:HE22	1:8:726:PRO:HA	1.59	0.66
1:R:397:GLU:OE2	1:R:650:LYS:NZ	2.27	0.66
1:y:397:GLU:OE2	1:y:650:LYS:NZ	2.27	0.66
1:F:397:GLU:OE2	1:F:650:LYS:NZ	2.27	0.65
1:Z:615:GLN:HE22	1:Z:726:PRO:HA	1.59	0.65
1:A:576:ARG:NH2	1:G:515:GLU:OE2	2.26	0.65
1:t:515:GLU:OE2	1:v:576:ARG:NH2	2.26	0.65
1:O:515:GLU:OE2	1:n:576:ARG:NH2	2.26	0.65
1:a:397:GLU:OE2	1:a:650:LYS:NZ	2.27	0.65
1:C:515:GLU:OE2	1:M:576:ARG:NH2	2.26	0.65
1:d:576:ARG:NH2	1:l:515:GLU:OE2	2.26	0.65
1:g:515:GLU:OE2	1:h:576:ARG:NH2	2.26	0.65
1:u:615:GLN:HE22	1:u:726:PRO:HA	1.59	0.65
1:B:515:GLU:OE2	1:L:576:ARG:NH2	2.26	0.65
1:M:397:GLU:OE2	1:M:650:LYS:NZ	2.27	0.65
1:h:397:GLU:OE2	1:h:650:LYS:NZ	2.27	0.65
1:I:615:GLN:HE22	1:I:726:PRO:HA	1.59	0.64
1:z:576:ARG:NH2	1:1:515:GLU:OE2	2.26	0.64
1:J:576:ARG:NH2	1:L:515:GLU:OE2	2.26	0.64
1:z:515:GLU:OE2	1:2:576:ARG:NH2	2.26	0.64
1:B:576:ARG:NH2	1:J:515:GLU:OE2	2.26	0.64
1:N:576:ARG:NH2	1:P:515:GLU:OE2	2.26	0.64
1:Z:515:GLU:OE2	1:3:576:ARG:NH2	2.26	0.64
1:i:576:ARG:NH2	1:j:515:GLU:OE2	2.26	0.64
1:V:515:GLU:OE2	1:X:576:ARG:NH2	2.26	0.64
1:Z:576:ARG:NH2	1:4:515:GLU:OE2	2.26	0.64
1:a:576:ARG:NH2	1:8:515:GLU:OE2	2.26	0.64
1:1:576:ARG:NH2	1:2:515:GLU:OE2	2.26	0.64
1:o:576:ARG:NH2	1:p:515:GLU:OE2	2.26	0.64
1:K:515:GLU:OE2	1:8:576:ARG:NH2	2.26	0.63
1:m:576:ARG:NH2	1:n:515:GLU:OE2	2.26	0.63
1:M:515:GLU:OE2	1:b:576:ARG:NH2	2.24	0.63
1:V:576:ARG:NH2	1:e:515:GLU:OE2	2.26	0.63
1:7:397:GLU:OE2	1:7:650:LYS:NZ	2.27	0.63
1:w:576:ARG:NH2	1:x:515:GLU:OE2	2.26	0.63
1:O:352:PRO:HB3	1:n:429:GLN:NE2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:576:ARG:NH2	1:d:515:GLU:OE2	2.26	0.63
1:d:429:GLN:NE2	1:l:352:PRO:HB3	2.14	0.63
1:f:429:GLN:NE2	1:h:352:PRO:HB3	2.14	0.63
1:t:352:PRO:HB3	1:v:429:GLN:NE2	2.14	0.63
1:A:429:GLN:NE2	1:G:352:PRO:HB3	2.14	0.63
1:B:429:GLN:NE2	1:J:352:PRO:HB3	2.14	0.63
1:Y:397:GLU:OE2	1:Y:650:LYS:NZ	2.27	0.63
1:c:515:GLU:OE2	1:p:576:ARG:NH2	2.26	0.63
1:1:429:GLN:NE2	1:2:352:PRO:HB3	2.14	0.63
1:C:352:PRO:HB3	1:M:429:GLN:NE2	2.14	0.63
1:C:429:GLN:NE2	1:b:352:PRO:HB3	2.14	0.63
1:G:429:GLN:NE2	1:I:352:PRO:HB3	2.14	0.63
1:t:429:GLN:NE2	1:u:352:PRO:HB3	2.14	0.63
1:K:429:GLN:NE2	1:a:352:PRO:HB3	2.14	0.63
1:u:429:GLN:NE2	1:v:352:PRO:HB3	2.14	0.63
1:3:352:PRO:HB3	1:4:429:GLN:NE2	2.14	0.63
1:B:352:PRO:HB3	1:L:429:GLN:NE2	2.14	0.63
1:D:429:GLN:NE2	1:N:352:PRO:HB3	2.14	0.63
1:f:352:PRO:HB3	1:g:429:GLN:NE2	2.14	0.63
1:A:352:PRO:HB3	1:I:429:GLN:NE2	2.14	0.63
1:E:352:PRO:HB3	1:F:429:GLN:NE2	2.14	0.63
1:J:429:GLN:NE2	1:L:352:PRO:HB3	2.14	0.63
1:M:352:PRO:HB3	1:b:429:GLN:NE2	2.14	0.63
1:T:429:GLN:NE2	1:d:352:PRO:HB3	2.14	0.63
1:X:352:PRO:HB3	1:e:429:GLN:NE2	2.14	0.63
1:Z:352:PRO:HB3	1:3:429:GLN:NE2	2.14	0.63
1:c:429:GLN:NE2	1:o:352:PRO:HB3	2.14	0.63
1:i:352:PRO:HB3	1:k:429:GLN:NE2	2.14	0.63
1:m:429:GLN:NE2	1:n:352:PRO:HB3	2.14	0.63
1:w:352:PRO:HB3	1:y:429:GLN:NE2	2.14	0.63
1:z:352:PRO:HB3	1:2:429:GLN:NE2	2.14	0.63
1:z:429:GLN:NE2	1:1:352:PRO:HB3	2.14	0.63
1:a:429:GLN:NE2	1:8:352:PRO:HB3	2.14	0.62
1:r:576:ARG:NH2	1:s:515:GLU:OE2	2.26	0.62
1:E:576:ARG:NH2	1:Q:515:GLU:OE2	2.26	0.62
1:F:352:PRO:HB3	1:Q:429:GLN:NE2	2.14	0.62
1:H:429:GLN:NE2	1:W:352:PRO:HB3	2.14	0.62
1:R:429:GLN:NE2	1:S:352:PRO:HB3	2.14	0.62
1:g:352:PRO:HB3	1:h:429:GLN:NE2	2.14	0.62
1:x:429:GLN:NE2	1:y:352:PRO:HB3	2.14	0.62
1:q:352:PRO:HB3	1:s:429:GLN:NE2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:429:GLN:NE2	1:6:352:PRO:HB3	2.14	0.62
1:H:352:PRO:HB3	1:Y:429:GLN:NE2	2.14	0.62
1:S:429:GLN:NE2	1:U:352:PRO:HB3	2.14	0.62
1:j:429:GLN:NE2	1:k:352:PRO:HB3	2.14	0.62
1:q:429:GLN:NE2	1:r:352:PRO:HB3	2.14	0.62
1:D:352:PRO:HB3	1:P:429:GLN:NE2	2.14	0.62
1:R:352:PRO:HB3	1:U:429:GLN:NE2	2.14	0.62
1:S:576:ARG:NH2	1:U:515:GLU:OE2	2.26	0.62
1:c:352:PRO:HB3	1:p:429:GLN:NE2	2.14	0.62
1:f:576:ARG:NH2	1:h:515:GLU:OE2	2.26	0.62
1:r:429:GLN:NE2	1:s:352:PRO:HB3	2.14	0.62
1:E:429:GLN:NE2	1:Q:352:PRO:HB3	2.14	0.62
1:K:352:PRO:HB3	1:8:429:GLN:NE2	2.14	0.62
1:Z:429:GLN:NE2	1:4:352:PRO:HB3	2.14	0.62
1:i:429:GLN:NE2	1:j:352:PRO:HB3	2.14	0.62
1:5:352:PRO:HB3	1:7:429:GLN:NE2	2.14	0.62
1:V:352:PRO:HB3	1:X:429:GLN:NE2	2.14	0.62
1:V:429:GLN:NE2	1:e:352:PRO:HB3	2.14	0.62
1:X:246:THR:HG23	1:X:370:VAL:HG22	1.82	0.62
1:c:576:ARG:NH2	1:o:515:GLU:OE2	2.26	0.62
1:o:246:THR:HG23	1:o:370:VAL:HG22	1.82	0.62
1:o:429:GLN:NE2	1:p:352:PRO:HB3	2.14	0.62
1:N:429:GLN:NE2	1:P:352:PRO:HB3	2.14	0.62
1:O:429:GLN:NE2	1:m:352:PRO:HB3	2.14	0.62
1:w:429:GLN:NE2	1:x:352:PRO:HB3	2.14	0.62
1:T:352:PRO:HB3	1:l:429:GLN:NE2	2.14	0.62
1:X:515:GLU:OE2	1:e:576:ARG:NH2	2.26	0.62
1:d:246:THR:HG23	1:d:370:VAL:HG22	1.82	0.62
1:n:246:THR:HG23	1:n:370:VAL:HG22	1.82	0.62
1:M:497:ASN:ND2	1:b:590:ASP:HA	2.14	0.61
1:V:246:THR:HG23	1:V:370:VAL:HG22	1.82	0.61
1:p:246:THR:HG23	1:p:370:VAL:HG22	1.82	0.61
1:6:429:GLN:NE2	1:7:352:PRO:HB3	2.14	0.61
1:B:246:THR:HG23	1:B:370:VAL:HG22	1.82	0.61
1:U:246:THR:HG23	1:U:370:VAL:HG22	1.82	0.61
1:c:590:ASP:HA	1:o:497:ASN:ND2	2.16	0.61
1:t:246:THR:HG23	1:t:370:VAL:HG22	1.82	0.61
1:C:354:VAL:HG13	1:M:436:ASN:HB2	1.81	0.61
1:G:246:THR:HG23	1:G:370:VAL:HG22	1.82	0.61
1:H:246:THR:HG23	1:H:370:VAL:HG22	1.82	0.61
1:S:246:THR:HG23	1:S:370:VAL:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:429:GLN:NE2	1:Y:352:PRO:HB3	2.14	0.61
1:X:497:ASN:ND2	1:e:590:ASP:HA	2.16	0.61
1:h:246:THR:HG23	1:h:370:VAL:HG22	1.82	0.61
1:s:246:THR:HG23	1:s:370:VAL:HG22	1.82	0.61
1:1:246:THR:HG23	1:1:370:VAL:HG22	1.82	0.61
1:2:246:THR:HG23	1:2:370:VAL:HG22	1.82	0.61
1:5:246:THR:HG23	1:5:370:VAL:HG22	1.82	0.61
1:A:515:GLU:OE2	1:I:576:ARG:NH2	2.26	0.61
1:J:246:THR:HG23	1:J:370:VAL:HG22	1.82	0.61
1:M:246:THR:HG23	1:M:370:VAL:HG22	1.82	0.61
1:P:246:THR:HG23	1:P:370:VAL:HG22	1.82	0.61
1:a:246:THR:HG23	1:a:370:VAL:HG22	1.82	0.61
1:r:246:THR:HG23	1:r:370:VAL:HG22	1.82	0.61
1:u:576:ARG:NH2	1:v:515:GLU:OE2	2.26	0.61
1:C:246:THR:HG23	1:C:370:VAL:HG22	1.82	0.61
1:j:246:THR:HG23	1:j:370:VAL:HG22	1.82	0.61
1:O:436:ASN:HB2	1:m:354:VAL:HG13	1.83	0.61
1:R:590:ASP:HA	1:S:497:ASN:ND2	2.16	0.61
1:S:590:ASP:HA	1:U:497:ASN:ND2	2.16	0.61
1:T:354:VAL:HG13	1:l:436:ASN:HB2	1.83	0.61
1:g:246:THR:HG23	1:g:370:VAL:HG22	1.82	0.61
1:q:590:ASP:HA	1:r:497:ASN:ND2	2.16	0.61
1:r:590:ASP:HA	1:s:497:ASN:ND2	2.16	0.61
1:3:246:THR:HG23	1:3:370:VAL:HG22	1.82	0.61
1:6:436:ASN:HB2	1:7:354:VAL:HG13	1.83	0.61
1:K:246:THR:HG23	1:K:370:VAL:HG22	1.82	0.61
1:Y:246:THR:HG23	1:Y:370:VAL:HG22	1.82	0.61
1:f:497:ASN:ND2	1:g:590:ASP:HA	2.16	0.61
1:k:246:THR:HG23	1:k:370:VAL:HG22	1.82	0.61
1:m:246:THR:HG23	1:m:370:VAL:HG22	1.82	0.61
1:4:246:THR:HG23	1:4:370:VAL:HG22	1.82	0.61
1:7:246:THR:HG23	1:7:370:VAL:HG22	1.82	0.61
1:D:246:THR:HG23	1:D:370:VAL:HG22	1.82	0.61
1:M:552:ASN:HD21	1:b:447:ASN:HD22	1.49	0.61
1:T:246:THR:HG23	1:T:370:VAL:HG22	1.82	0.61
1:T:436:ASN:HB2	1:d:354:VAL:HG13	1.83	0.61
1:W:436:ASN:HB2	1:Y:354:VAL:HG13	1.83	0.61
1:W:590:ASP:HA	1:Y:497:ASN:ND2	2.16	0.61
1:m:436:ASN:HB2	1:n:354:VAL:HG13	1.83	0.61
1:6:590:ASP:HA	1:7:497:ASN:ND2	2.16	0.61
1:C:590:ASP:HA	1:b:497:ASN:ND2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:590:ASP:HA	1:Q:497:ASN:ND2	2.16	0.61
1:K:436:ASN:HB2	1:a:354:VAL:HG13	1.83	0.61
1:N:590:ASP:HA	1:P:497:ASN:ND2	2.16	0.61
1:O:590:ASP:HA	1:m:497:ASN:ND2	2.16	0.61
1:V:497:ASN:ND2	1:X:590:ASP:HA	2.16	0.61
1:i:590:ASP:HA	1:j:497:ASN:ND2	2.16	0.61
1:o:590:ASP:HA	1:p:497:ASN:ND2	2.16	0.61
1:w:590:ASP:HA	1:x:497:ASN:ND2	2.16	0.61
1:A:436:ASN:HB2	1:G:354:VAL:HG13	1.83	0.61
1:K:497:ASN:ND2	1:8:590:ASP:HA	2.16	0.61
1:R:354:VAL:HG13	1:U:436:ASN:HB2	1.83	0.61
1:T:497:ASN:ND2	1:l:590:ASP:HA	2.16	0.61
1:Z:590:ASP:HA	1:4:497:ASN:ND2	2.16	0.61
1:A:246:THR:HG23	1:A:370:VAL:HG22	1.82	0.60
1:q:354:VAL:HG13	1:s:436:ASN:HB2	1.83	0.60
1:t:354:VAL:HG13	1:v:436:ASN:HB2	1.83	0.60
1:v:246:THR:HG23	1:v:370:VAL:HG22	1.82	0.60
1:3:354:VAL:HG13	1:4:436:ASN:HB2	1.83	0.60
1:D:436:ASN:HB2	1:N:354:VAL:HG13	1.83	0.60
1:e:246:THR:HG23	1:e:370:VAL:HG22	1.82	0.60
1:i:354:VAL:HG13	1:k:436:ASN:HB2	1.83	0.60
1:x:590:ASP:HA	1:y:497:ASN:ND2	2.16	0.60
1:F:497:ASN:ND2	1:Q:590:ASP:HA	2.16	0.60
1:O:246:THR:HG23	1:O:370:VAL:HG22	1.82	0.60
1:V:436:ASN:HB2	1:e:354:VAL:HG13	1.83	0.60
1:o:436:ASN:HB2	1:p:354:VAL:HG13	1.83	0.60
1:y:246:THR:HG23	1:y:370:VAL:HG22	1.82	0.60
1:3:497:ASN:ND2	1:4:590:ASP:HA	2.16	0.60
1:8:698:GLU:HB2	1:8:700:GLN:HE21	1.67	0.60
1:A:590:ASP:HA	1:G:497:ASN:ND2	2.16	0.60
1:G:698:GLU:HB2	1:G:700:GLN:HE21	1.67	0.60
1:K:354:VAL:HG13	1:8:436:ASN:HB2	1.83	0.60
1:O:497:ASN:ND2	1:n:590:ASP:HA	2.16	0.60
1:V:354:VAL:HG13	1:X:436:ASN:HB2	1.83	0.60
1:V:590:ASP:HA	1:e:497:ASN:ND2	2.16	0.60
1:c:354:VAL:HG13	1:p:436:ASN:HB2	1.83	0.60
1:t:698:GLU:HB2	1:t:700:GLN:HE21	1.67	0.60
1:x:246:THR:HG23	1:x:370:VAL:HG22	1.82	0.60
1:D:590:ASP:HA	1:N:497:ASN:ND2	2.16	0.60
1:F:246:THR:HG23	1:F:370:VAL:HG22	1.82	0.60
1:K:590:ASP:HA	1:a:497:ASN:ND2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:246:THR:HG23	1:N:370:VAL:HG22	1.82	0.60
1:W:698:GLU:HB2	1:W:700:GLN:HE21	1.67	0.60
1:Z:354:VAL:HG13	1:3:436:ASN:HB2	1.83	0.60
1:Z:436:ASN:HB2	1:4:354:VAL:HG13	1.83	0.60
1:Z:698:GLU:HB2	1:Z:700:GLN:HE21	1.67	0.60
1:a:436:ASN:HB2	1:8:354:VAL:HG13	1.83	0.60
1:b:698:GLU:HB2	1:b:700:GLN:HE21	1.67	0.60
1:c:246:THR:HG23	1:c:370:VAL:HG22	1.82	0.60
1:c:497:ASN:ND2	1:p:590:ASP:HA	2.16	0.60
1:f:698:GLU:HB2	1:f:700:GLN:HE21	1.67	0.60
1:g:497:ASN:ND2	1:h:590:ASP:HA	2.16	0.60
1:l:246:THR:HG23	1:l:370:VAL:HG22	1.82	0.60
1:w:354:VAL:HG13	1:y:436:ASN:HB2	1.83	0.60
1:6:698:GLU:HB2	1:6:700:GLN:HE21	1.67	0.60
1:8:246:THR:HG23	1:8:370:VAL:HG22	1.82	0.60
1:D:497:ASN:ND2	1:P:590:ASP:HA	2.16	0.60
1:E:354:VAL:HG13	1:F:436:ASN:HB2	1.83	0.60
1:E:436:ASN:HB2	1:Q:354:VAL:HG13	1.83	0.60
1:I:246:THR:HG23	1:I:370:VAL:HG22	1.82	0.60
1:Q:246:THR:HG23	1:Q:370:VAL:HG22	1.82	0.60
1:X:354:VAL:HG13	1:e:436:ASN:HB2	1.83	0.60
1:Z:246:THR:HG23	1:Z:370:VAL:HG22	1.82	0.60
1:d:590:ASP:HA	1:l:497:ASN:ND2	2.16	0.60
1:f:436:ASN:HB2	1:h:354:VAL:HG13	1.83	0.60
1:f:590:ASP:HA	1:h:497:ASN:ND2	2.16	0.60
1:g:354:VAL:HG13	1:h:436:ASN:HB2	1.83	0.60
1:i:246:THR:HG23	1:i:370:VAL:HG22	1.82	0.60
1:i:497:ASN:ND2	1:k:590:ASP:HA	2.16	0.60
1:t:497:ASN:ND2	1:v:590:ASP:HA	2.16	0.60
1:t:590:ASP:HA	1:u:497:ASN:ND2	2.16	0.60
1:u:246:THR:HG23	1:u:370:VAL:HG22	1.82	0.60
1:w:447:ASN:HD22	1:x:552:ASN:HD21	1.50	0.60
1:C:698:GLU:HB2	1:C:700:GLN:HE21	1.67	0.60
1:E:447:ASN:HD22	1:Q:552:ASN:HD21	1.50	0.60
1:F:698:GLU:HB2	1:F:700:GLN:HE21	1.67	0.60
1:L:246:THR:HG23	1:L:370:VAL:HG22	1.82	0.60
1:R:246:THR:HG23	1:R:370:VAL:HG22	1.82	0.60
1:a:698:GLU:HB2	1:a:700:GLN:HE21	1.67	0.60
1:c:436:ASN:HB2	1:o:354:VAL:HG13	1.83	0.60
1:g:698:GLU:HB2	1:g:700:GLN:HE21	1.67	0.60
1:q:246:THR:HG23	1:q:370:VAL:HG22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:436:ASN:HB2	1:s:354:VAL:HG13	1.83	0.60
1:w:436:ASN:HB2	1:x:354:VAL:HG13	1.83	0.60
1:z:246:THR:HG23	1:z:370:VAL:HG22	1.82	0.60
1:B:354:VAL:HG13	1:L:436:ASN:HB2	1.83	0.60
1:B:447:ASN:HD22	1:J:552:ASN:HD21	1.50	0.60
1:E:246:THR:HG23	1:E:370:VAL:HG22	1.82	0.60
1:G:590:ASP:HA	1:I:497:ASN:ND2	2.16	0.60
1:N:447:ASN:HD22	1:P:552:ASN:HD21	1.50	0.60
1:O:552:ASN:HD21	1:n:447:ASN:HD22	1.50	0.60
1:S:436:ASN:HB2	1:U:354:VAL:HG13	1.83	0.60
1:X:698:GLU:HB2	1:X:700:GLN:HE21	1.67	0.60
1:d:447:ASN:HD22	1:l:552:ASN:HD21	1.50	0.60
1:h:698:GLU:HB2	1:h:700:GLN:HE21	1.67	0.60
1:i:447:ASN:HD22	1:j:552:ASN:HD21	1.50	0.60
1:j:590:ASP:HA	1:k:497:ASN:ND2	2.16	0.60
1:y:698:GLU:HB2	1:y:700:GLN:HE21	1.67	0.60
1:1:447:ASN:HD22	1:2:552:ASN:HD21	1.50	0.60
1:5:354:VAL:HG13	1:7:436:ASN:HB2	1.83	0.60
1:6:246:THR:HG23	1:6:370:VAL:HG22	1.82	0.60
1:C:436:ASN:HB2	1:b:354:VAL:HG13	1.83	0.60
1:D:354:VAL:HG13	1:P:436:ASN:HB2	1.83	0.60
1:J:436:ASN:HB2	1:L:354:VAL:HG13	1.83	0.60
1:M:698:GLU:HB2	1:M:700:GLN:HE21	1.67	0.60
1:V:552:ASN:HD21	1:X:447:ASN:HD22	1.50	0.60
1:c:698:GLU:HB2	1:c:700:GLN:HE21	1.67	0.60
1:d:436:ASN:HB2	1:l:354:VAL:HG13	1.83	0.60
1:f:246:THR:HG23	1:f:370:VAL:HG22	1.82	0.60
1:o:698:GLU:HB2	1:o:700:GLN:HE21	1.67	0.60
1:q:436:ASN:HB2	1:r:354:VAL:HG13	1.83	0.60
1:w:246:THR:HG23	1:w:370:VAL:HG22	1.82	0.60
1:z:354:VAL:HG13	1:2:436:ASN:HB2	1.83	0.60
1:z:436:ASN:HB2	1:1:354:VAL:HG13	1.83	0.60
1:3:698:GLU:HB2	1:3:700:GLN:HE21	1.67	0.60
1:A:354:VAL:HG13	1:I:436:ASN:HB2	1.83	0.60
1:A:552:ASN:HD21	1:I:447:ASN:HD22	1.50	0.60
1:B:590:ASP:HA	1:J:497:ASN:ND2	2.16	0.60
1:H:354:VAL:HG13	1:Y:436:ASN:HB2	1.83	0.60
1:H:436:ASN:HB2	1:W:354:VAL:HG13	1.83	0.60
1:O:354:VAL:HG13	1:n:436:ASN:HB2	1.83	0.60
1:R:436:ASN:HB2	1:S:354:VAL:HG13	1.83	0.60
1:R:447:ASN:HD22	1:S:552:ASN:HD21	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:246:THR:HG23	1:b:370:VAL:HG22	1.82	0.60
1:f:354:VAL:HG13	1:g:436:ASN:HB2	1.83	0.60
1:o:447:ASN:HD22	1:p:552:ASN:HD21	1.50	0.60
1:p:698:GLU:HB2	1:p:700:GLN:HE21	1.67	0.60
1:q:447:ASN:HD22	1:r:552:ASN:HD21	1.50	0.60
1:u:447:ASN:HD22	1:v:552:ASN:HD21	1.50	0.60
1:w:497:ASN:ND2	1:y:590:ASP:HA	2.16	0.60
1:A:497:ASN:ND2	1:I:590:ASP:HA	2.16	0.59
1:B:698:GLU:HB2	1:B:700:GLN:HE21	1.67	0.59
1:C:497:ASN:ND2	1:M:590:ASP:HA	2.16	0.59
1:C:575:GLU:HG2	1:M:584:PHE:HZ	1.67	0.59
1:E:497:ASN:ND2	1:F:590:ASP:HA	2.16	0.59
1:V:698:GLU:HB2	1:V:700:GLN:HE21	1.67	0.59
1:W:246:THR:HG23	1:W:370:VAL:HG22	1.82	0.59
1:e:698:GLU:HB2	1:e:700:GLN:HE21	1.67	0.59
1:j:436:ASN:HB2	1:k:354:VAL:HG13	1.83	0.59
1:l:698:GLU:HB2	1:l:700:GLN:HE21	1.67	0.59
1:5:436:ASN:HB2	1:6:354:VAL:HG13	1.83	0.59
1:A:447:ASN:HD22	1:G:552:ASN:HD21	1.50	0.59
1:T:590:ASP:HA	1:d:497:ASN:ND2	2.16	0.59
1:i:552:ASN:HD21	1:k:447:ASN:HD22	1.50	0.59
1:t:552:ASN:HD21	1:v:447:ASN:HD22	1.50	0.59
1:u:436:ASN:HB2	1:v:354:VAL:HG13	1.83	0.59
1:z:497:ASN:ND2	1:2:590:ASP:HA	2.16	0.59
1:1:590:ASP:HA	1:2:497:ASN:ND2	2.16	0.59
1:1:698:GLU:HB2	1:1:700:GLN:HE21	1.67	0.59
1:F:497:ASN:OD1	1:F:498:ASN:N	2.36	0.59
1:J:590:ASP:HA	1:L:497:ASN:ND2	2.16	0.59
1:M:354:VAL:HG13	1:b:436:ASN:HB2	1.83	0.59
1:O:698:GLU:HB2	1:O:700:GLN:HE21	1.67	0.59
1:R:497:ASN:ND2	1:U:590:ASP:HA	2.16	0.59
1:U:497:ASN:OD1	1:U:498:ASN:N	2.36	0.59
1:d:698:GLU:HB2	1:d:700:GLN:HE21	1.67	0.59
1:s:497:ASN:OD1	1:s:498:ASN:N	2.36	0.59
1:t:497:ASN:OD1	1:t:498:ASN:N	2.36	0.59
1:u:497:ASN:OD1	1:u:498:ASN:N	2.36	0.59
1:u:590:ASP:HA	1:v:497:ASN:ND2	2.16	0.59
1:u:698:GLU:HB2	1:u:700:GLN:HE21	1.67	0.59
1:y:497:ASN:OD1	1:y:498:ASN:N	2.36	0.59
1:z:698:GLU:HB2	1:z:700:GLN:HE21	1.67	0.59
1:5:590:ASP:HA	1:6:497:ASN:ND2	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:698:GLU:HB2	1:7:700:GLN:HE21	1.67	0.59
1:D:447:ASN:HD22	1:N:552:ASN:HD21	1.50	0.59
1:G:497:ASN:OD1	1:G:498:ASN:N	2.36	0.59
1:H:590:ASP:HA	1:W:497:ASN:ND2	2.16	0.59
1:I:497:ASN:OD1	1:I:498:ASN:N	2.36	0.59
1:W:497:ASN:OD1	1:W:498:ASN:N	2.36	0.59
1:f:447:ASN:HD22	1:h:552:ASN:HD21	1.50	0.59
1:j:497:ASN:OD1	1:j:498:ASN:N	2.36	0.59
1:j:698:GLU:HB2	1:j:700:GLN:HE21	1.67	0.59
1:m:590:ASP:HA	1:n:497:ASN:ND2	2.16	0.59
1:n:698:GLU:HB2	1:n:700:GLN:HE21	1.67	0.59
1:q:698:GLU:HB2	1:q:700:GLN:HE21	1.67	0.59
1:1:497:ASN:OD1	1:1:498:ASN:N	2.36	0.59
1:4:698:GLU:HB2	1:4:700:GLN:HE21	1.67	0.59
1:5:447:ASN:HD22	1:6:552:ASN:HD21	1.50	0.59
1:6:497:ASN:OD1	1:6:498:ASN:N	2.36	0.59
1:B:497:ASN:OD1	1:B:498:ASN:N	2.36	0.59
1:B:497:ASN:ND2	1:L:590:ASP:HA	2.16	0.59
1:D:497:ASN:OD1	1:D:498:ASN:N	2.36	0.59
1:E:497:ASN:OD1	1:E:498:ASN:N	2.36	0.59
1:H:447:ASN:HD22	1:W:552:ASN:HD21	1.50	0.59
1:I:698:GLU:HB2	1:I:700:GLN:HE21	1.67	0.59
1:K:698:GLU:HB2	1:K:700:GLN:HE21	1.67	0.59
1:L:698:GLU:HB2	1:L:700:GLN:HE21	1.67	0.59
1:N:698:GLU:HB2	1:N:700:GLN:HE21	1.67	0.59
1:P:497:ASN:OD1	1:P:498:ASN:N	2.36	0.59
1:P:698:GLU:HB2	1:P:700:GLN:HE21	1.67	0.59
1:R:698:GLU:HB2	1:R:700:GLN:HE21	1.67	0.59
1:V:497:ASN:OD1	1:V:498:ASN:N	2.36	0.59
1:Y:698:GLU:HB2	1:Y:700:GLN:HE21	1.67	0.59
1:g:552:ASN:HD21	1:h:447:ASN:HD22	1.50	0.59
1:k:497:ASN:OD1	1:k:498:ASN:N	2.36	0.59
1:k:698:GLU:HB2	1:k:700:GLN:HE21	1.67	0.59
1:n:497:ASN:OD1	1:n:498:ASN:N	2.36	0.59
1:p:497:ASN:OD1	1:p:498:ASN:N	2.36	0.59
1:q:497:ASN:ND2	1:s:590:ASP:HA	2.16	0.59
1:B:436:ASN:HB2	1:J:354:VAL:HG13	1.83	0.59
1:G:436:ASN:HB2	1:I:354:VAL:HG13	1.83	0.59
1:H:497:ASN:ND2	1:Y:590:ASP:HA	2.16	0.59
1:O:575:GLU:HG2	1:n:584:PHE:HZ	1.68	0.59
1:R:497:ASN:OD1	1:R:498:ASN:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:447:ASN:HD22	1:d:552:ASN:HD21	1.50	0.59
1:Z:552:ASN:HD21	1:3:447:ASN:HD22	1.50	0.59
1:d:497:ASN:OD1	1:d:498:ASN:N	2.36	0.59
1:i:698:GLU:HB2	1:i:700:GLN:HE21	1.67	0.59
1:w:497:ASN:OD1	1:w:498:ASN:N	2.36	0.59
1:z:590:ASP:HA	1:1:497:ASN:ND2	2.16	0.59
1:1:436:ASN:HB2	1:2:354:VAL:HG13	1.83	0.59
1:5:497:ASN:ND2	1:7:590:ASP:HA	2.16	0.59
1:D:698:GLU:HB2	1:D:700:GLN:HE21	1.67	0.59
1:F:354:VAL:HG13	1:Q:436:ASN:HB2	1.83	0.59
1:G:447:ASN:HD22	1:I:552:ASN:HD21	1.50	0.59
1:N:584:PHE:HZ	1:P:575:GLU:HG2	1.68	0.59
1:R:584:PHE:HZ	1:S:575:GLU:HG2	1.68	0.59
1:T:497:ASN:OD1	1:T:498:ASN:N	2.36	0.59
1:T:584:PHE:HZ	1:d:575:GLU:HG2	1.68	0.59
1:V:447:ASN:HD22	1:e:552:ASN:HD21	1.50	0.59
1:Z:497:ASN:ND2	1:3:590:ASP:HA	2.16	0.59
1:d:584:PHE:HZ	1:l:575:GLU:HG2	1.68	0.59
1:i:497:ASN:OD1	1:i:498:ASN:N	2.36	0.59
1:i:584:PHE:HZ	1:j:575:GLU:HG2	1.68	0.59
1:m:447:ASN:HD22	1:n:552:ASN:HD21	1.50	0.59
1:q:497:ASN:OD1	1:q:498:ASN:N	2.36	0.59
1:q:584:PHE:HZ	1:r:575:GLU:HG2	1.68	0.59
1:t:447:ASN:HD22	1:u:552:ASN:HD21	1.50	0.59
1:z:497:ASN:OD1	1:z:498:ASN:N	2.36	0.59
1:L:497:ASN:OD1	1:L:498:ASN:N	2.36	0.59
1:N:436:ASN:HB2	1:P:354:VAL:HG13	1.83	0.59
1:N:497:ASN:OD1	1:N:498:ASN:N	2.36	0.59
1:S:584:PHE:HZ	1:U:575:GLU:HG2	1.68	0.59
1:S:698:GLU:HB2	1:S:700:GLN:HE21	1.67	0.59
1:U:698:GLU:HB2	1:U:700:GLN:HE21	1.67	0.59
1:W:447:ASN:HD22	1:Y:552:ASN:HD21	1.50	0.59
1:a:447:ASN:HD22	1:8:552:ASN:HD21	1.50	0.59
1:c:552:ASN:HD21	1:p:447:ASN:HD22	1.50	0.59
1:m:497:ASN:OD1	1:m:498:ASN:N	2.36	0.59
1:m:584:PHE:HZ	1:n:575:GLU:HG2	1.68	0.59
1:r:584:PHE:HZ	1:s:575:GLU:HG2	1.68	0.59
1:r:698:GLU:HB2	1:r:700:GLN:HE21	1.67	0.59
1:s:698:GLU:HB2	1:s:700:GLN:HE21	1.67	0.59
1:t:436:ASN:HB2	1:u:354:VAL:HG13	1.83	0.59
1:6:447:ASN:HD22	1:7:552:ASN:HD21	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:584:PHE:HZ	1:Q:575:GLU:HG2	1.68	0.59
1:J:497:ASN:OD1	1:J:498:ASN:N	2.36	0.59
1:Q:497:ASN:OD1	1:Q:498:ASN:N	2.36	0.59
1:a:497:ASN:OD1	1:a:498:ASN:N	2.36	0.59
1:b:497:ASN:OD1	1:b:498:ASN:N	2.36	0.59
1:i:436:ASN:HB2	1:j:354:VAL:HG13	1.83	0.59
1:w:584:PHE:HZ	1:x:575:GLU:HG2	1.68	0.59
1:x:436:ASN:HB2	1:y:354:VAL:HG13	1.83	0.59
1:x:497:ASN:OD1	1:x:498:ASN:N	2.36	0.59
1:3:497:ASN:OD1	1:3:498:ASN:N	2.36	0.59
1:C:497:ASN:OD1	1:C:498:ASN:N	2.36	0.59
1:C:552:ASN:HD21	1:M:447:ASN:HD22	1.51	0.59
1:H:552:ASN:HD21	1:Y:447:ASN:HD22	1.50	0.59
1:Q:698:GLU:HB2	1:Q:700:GLN:HE21	1.67	0.59
1:X:497:ASN:OD1	1:X:498:ASN:N	2.36	0.59
1:a:590:ASP:HA	1:8:497:ASN:ND2	2.16	0.59
1:f:497:ASN:OD1	1:f:498:ASN:N	2.36	0.59
1:o:497:ASN:OD1	1:o:498:ASN:N	2.36	0.59
1:x:698:GLU:HB2	1:x:700:GLN:HE21	1.67	0.59
1:2:497:ASN:OD1	1:2:498:ASN:N	2.36	0.59
1:2:698:GLU:HB2	1:2:700:GLN:HE21	1.67	0.59
1:5:584:PHE:HZ	1:6:575:GLU:HG2	1.68	0.59
1:H:584:PHE:HZ	1:W:575:GLU:HG2	1.68	0.58
1:T:552:ASN:HD21	1:l:447:ASN:HD22	1.50	0.58
1:g:497:ASN:OD1	1:g:498:ASN:N	2.36	0.58
1:v:497:ASN:OD1	1:v:498:ASN:N	2.36	0.58
1:A:497:ASN:OD1	1:A:498:ASN:N	2.36	0.58
1:B:575:GLU:HG2	1:L:584:PHE:HZ	1.68	0.58
1:H:497:ASN:OD1	1:H:498:ASN:N	2.36	0.58
1:H:698:GLU:HB2	1:H:700:GLN:HE21	1.67	0.58
1:J:698:GLU:HB2	1:J:700:GLN:HE21	1.67	0.58
1:K:447:ASN:HD22	1:a:552:ASN:HD21	1.50	0.58
1:K:552:ASN:HD21	1:8:447:ASN:HD22	1.50	0.58
1:O:447:ASN:HD22	1:m:552:ASN:HD21	1.50	0.58
1:O:497:ASN:OD1	1:O:498:ASN:N	2.36	0.58
1:R:575:GLU:HG2	1:U:584:PHE:HZ	1.68	0.58
1:c:497:ASN:OD1	1:c:498:ASN:N	2.36	0.58
1:l:497:ASN:OD1	1:l:498:ASN:N	2.36	0.58
1:q:575:GLU:HG2	1:s:584:PHE:HZ	1.68	0.58
1:5:497:ASN:OD1	1:5:498:ASN:N	2.36	0.58
1:5:552:ASN:HD21	1:7:447:ASN:HD22	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:584:PHE:HZ	1:7:575:GLU:HG2	1.68	0.58
1:F:552:ASN:HD21	1:Q:447:ASN:HD22	1.50	0.58
1:J:447:ASN:HD22	1:L:552:ASN:HD21	1.50	0.58
1:Z:447:ASN:HD22	1:4:552:ASN:HD21	1.50	0.58
1:e:497:ASN:OD1	1:e:498:ASN:N	2.36	0.58
1:5:698:GLU:HB2	1:5:700:GLN:HE21	1.67	0.58
1:F:575:GLU:HG2	1:Q:584:PHE:HZ	1.68	0.58
1:G:584:PHE:HZ	1:I:575:GLU:HG2	1.68	0.58
1:H:575:GLU:HG2	1:Y:584:PHE:HZ	1.68	0.58
1:R:552:ASN:HD21	1:U:447:ASN:HD22	1.50	0.58
1:W:584:PHE:HZ	1:Y:575:GLU:HG2	1.68	0.58
1:Z:575:GLU:HG2	1:3:584:PHE:HZ	1.68	0.58
1:w:575:GLU:HG2	1:y:584:PHE:HZ	1.68	0.58
1:z:584:PHE:HZ	1:1:575:GLU:HG2	1.68	0.58
1:5:575:GLU:HG2	1:7:584:PHE:HZ	1.68	0.58
1:E:575:GLU:HG2	1:F:584:PHE:HZ	1.68	0.58
1:K:584:PHE:HZ	1:a:575:GLU:HG2	1.68	0.58
1:S:497:ASN:OD1	1:S:498:ASN:N	2.36	0.58
1:V:575:GLU:HG2	1:X:584:PHE:HZ	1.68	0.58
1:q:552:ASN:HD21	1:s:447:ASN:HD22	1.50	0.58
1:t:584:PHE:HZ	1:u:575:GLU:HG2	1.68	0.58
1:x:584:PHE:HZ	1:y:575:GLU:HG2	1.68	0.58
1:z:552:ASN:HD21	1:2:447:ASN:HD22	1.50	0.58
1:4:497:ASN:OD1	1:4:498:ASN:N	2.36	0.58
1:K:497:ASN:OD1	1:K:498:ASN:N	2.36	0.58
1:M:635:MET:H	1:b:477:ASN:HD22	1.52	0.58
1:S:447:ASN:HD22	1:U:552:ASN:HD21	1.50	0.58
1:a:584:PHE:HZ	1:8:575:GLU:HG2	1.68	0.58
1:o:584:PHE:HZ	1:p:575:GLU:HG2	1.68	0.58
1:x:447:ASN:HD22	1:y:552:ASN:HD21	1.50	0.58
1:3:552:ASN:HD21	1:4:447:ASN:HD22	1.50	0.58
1:8:497:ASN:OD1	1:8:498:ASN:N	2.36	0.58
1:D:552:ASN:HD21	1:P:447:ASN:HD22	1.50	0.58
1:D:575:GLU:HG2	1:P:584:PHE:HZ	1.68	0.58
1:T:698:GLU:HB2	1:T:700:GLN:HE21	1.67	0.58
1:Y:497:ASN:OD1	1:Y:498:ASN:N	2.36	0.58
1:j:447:ASN:HD22	1:k:552:ASN:HD21	1.50	0.58
1:j:584:PHE:HZ	1:k:575:GLU:HG2	1.68	0.58
1:m:698:GLU:HB2	1:m:700:GLN:HE21	1.67	0.58
1:r:497:ASN:OD1	1:r:498:ASN:N	2.36	0.58
1:3:575:GLU:HG2	1:4:584:PHE:HZ	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:354:VAL:CG1	1:M:436:ASN:HB2	2.33	0.58
1:O:584:PHE:HZ	1:m:575:GLU:HG2	1.68	0.58
1:T:575:GLU:HG2	1:l:584:PHE:HZ	1.68	0.58
1:Z:497:ASN:OD1	1:Z:498:ASN:N	2.36	0.58
1:r:447:ASN:HD22	1:s:552:ASN:HD21	1.50	0.58
1:v:698:GLU:HB2	1:v:700:GLN:HE21	1.67	0.58
1:1:584:PHE:HZ	1:2:575:GLU:HG2	1.68	0.58
1:7:497:ASN:OD1	1:7:498:ASN:N	2.36	0.58
1:A:698:GLU:HB2	1:A:700:GLN:HE21	1.67	0.58
1:w:698:GLU:HB2	1:w:700:GLN:HE21	1.67	0.58
1:B:584:PHE:HZ	1:J:575:GLU:HG2	1.68	0.58
1:D:584:PHE:HZ	1:N:575:GLU:HG2	1.68	0.58
1:c:584:PHE:HZ	1:o:575:GLU:HG2	1.68	0.58
1:f:552:ASN:HD21	1:g:447:ASN:HD22	1.50	0.58
1:g:575:GLU:HG2	1:h:584:PHE:HZ	1.68	0.58
1:i:575:GLU:HG2	1:k:584:PHE:HZ	1.68	0.58
1:E:552:ASN:HD21	1:F:447:ASN:HD22	1.50	0.57
1:E:698:GLU:HB2	1:E:700:GLN:HE21	1.67	0.57
1:w:552:ASN:HD21	1:y:447:ASN:HD22	1.50	0.57
1:6:250:PRO:HG3	1:6:372:MET:HE3	1.86	0.57
1:C:436:ASN:HB2	1:b:354:VAL:CG1	2.35	0.57
1:C:447:ASN:HD22	1:b:552:ASN:HD21	1.50	0.57
1:R:602:LEU:HB2	1:R:605:MET:HE3	1.87	0.57
1:S:250:PRO:HG3	1:S:372:MET:HE3	1.86	0.57
1:W:250:PRO:HG3	1:W:372:MET:HE3	1.86	0.57
1:a:602:LEU:HB2	1:a:605:MET:HE3	1.87	0.57
1:b:250:PRO:HG3	1:b:372:MET:HE3	1.86	0.57
1:c:447:ASN:HD22	1:o:552:ASN:HD21	1.50	0.57
1:f:354:VAL:CG1	1:g:436:ASN:HB2	2.35	0.57
1:q:602:LEU:HB2	1:q:605:MET:HE3	1.87	0.57
1:r:250:PRO:HG3	1:r:372:MET:HE3	1.86	0.57
1:3:342:GLN:HE21	1:3:403:MET:HE3	1.70	0.57
1:5:342:GLN:HE21	1:5:403:MET:HE3	1.70	0.57
1:G:342:GLN:HE21	1:G:403:MET:HE3	1.70	0.57
1:H:342:GLN:HE21	1:H:403:MET:HE3	1.70	0.57
1:K:436:ASN:HB2	1:a:354:VAL:CG1	2.35	0.57
1:X:552:ASN:HD21	1:e:447:ASN:HD22	1.50	0.57
1:X:575:GLU:HG2	1:e:584:PHE:HZ	1.68	0.57
1:c:602:LEU:HB2	1:c:605:MET:HE3	1.87	0.57
1:f:250:PRO:HG3	1:f:372:MET:HE3	1.86	0.57
1:t:342:GLN:HE21	1:t:403:MET:HE3	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:575:GLU:HG2	1:v:584:PHE:HZ	1.68	0.57
1:x:250:PRO:HG3	1:x:372:MET:HE3	1.86	0.57
1:z:447:ASN:HD22	1:1:552:ASN:HD21	1.50	0.57
1:3:354:VAL:CG1	1:4:436:ASN:HB2	2.35	0.57
1:8:342:GLN:HE21	1:8:403:MET:HE3	1.70	0.57
1:D:250:PRO:HG3	1:D:372:MET:HE3	1.86	0.57
1:I:250:PRO:HG3	1:I:372:MET:HE3	1.86	0.57
1:L:250:PRO:HG3	1:L:372:MET:HE3	1.86	0.57
1:N:250:PRO:HG3	1:N:372:MET:HE3	1.86	0.57
1:Q:250:PRO:HG3	1:Q:372:MET:HE3	1.86	0.57
1:U:611:ASP:OD1	1:U:729:THR:OG1	2.23	0.57
1:V:342:GLN:HE21	1:V:403:MET:HE3	1.70	0.57
1:V:584:PHE:HZ	1:e:575:GLU:HG2	1.68	0.57
1:X:354:VAL:CG1	1:e:436:ASN:HB2	2.35	0.57
1:Z:342:GLN:HE21	1:Z:403:MET:HE3	1.70	0.57
1:a:342:GLN:HE21	1:a:403:MET:HE3	1.70	0.57
1:c:436:ASN:HB2	1:o:354:VAL:CG1	2.35	0.57
1:d:342:GLN:HE21	1:d:403:MET:HE3	1.70	0.57
1:e:602:LEU:HB2	1:e:605:MET:HE3	1.87	0.57
1:h:497:ASN:OD1	1:h:498:ASN:N	2.36	0.57
1:i:250:PRO:HG3	1:i:372:MET:HE3	1.86	0.57
1:k:250:PRO:HG3	1:k:372:MET:HE3	1.86	0.57
1:n:342:GLN:HE21	1:n:403:MET:HE3	1.70	0.57
1:p:342:GLN:HE21	1:p:403:MET:HE3	1.70	0.57
1:s:342:GLN:HE21	1:s:403:MET:HE3	1.70	0.57
1:s:611:ASP:OD1	1:s:729:THR:OG1	2.23	0.57
1:u:250:PRO:HG3	1:u:372:MET:HE3	1.86	0.57
1:u:602:LEU:HB2	1:u:605:MET:HE3	1.87	0.57
1:x:342:GLN:HE21	1:x:403:MET:HE3	1.70	0.57
1:z:250:PRO:HG3	1:z:372:MET:HE3	1.86	0.57
1:1:342:GLN:HE21	1:1:403:MET:HE3	1.70	0.57
1:3:602:LEU:HB2	1:3:605:MET:HE3	1.87	0.57
1:8:250:PRO:HG3	1:8:372:MET:HE3	1.86	0.57
1:B:342:GLN:HE21	1:B:403:MET:HE3	1.70	0.57
1:B:552:ASN:HD21	1:L:447:ASN:HD22	1.50	0.57
1:C:602:LEU:HB2	1:C:605:MET:HE3	1.87	0.57
1:F:342:GLN:HE21	1:F:403:MET:HE3	1.70	0.57
1:G:250:PRO:HG3	1:G:372:MET:HE3	1.86	0.57
1:G:436:ASN:HB2	1:I:354:VAL:CG1	2.35	0.57
1:I:602:LEU:HB2	1:I:605:MET:HE3	1.87	0.57
1:K:250:PRO:HG3	1:K:372:MET:HE3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:655:PRO:HG3	1:c:370:VAL:HG11	1.87	0.57
1:P:602:LEU:HB2	1:P:605:MET:HE3	1.87	0.57
1:Q:342:GLN:HE21	1:Q:403:MET:HE3	1.70	0.57
1:U:342:GLN:HE21	1:U:403:MET:HE3	1.70	0.57
1:Z:250:PRO:HG3	1:Z:372:MET:HE3	1.86	0.57
1:g:602:LEU:HB2	1:g:605:MET:HE3	1.87	0.57
1:h:342:GLN:HE21	1:h:403:MET:HE3	1.70	0.57
1:n:602:LEU:HB2	1:n:605:MET:HE3	1.87	0.57
1:t:250:PRO:HG3	1:t:372:MET:HE3	1.86	0.57
1:4:342:GLN:HE21	1:4:403:MET:HE3	1.70	0.57
1:7:342:GLN:HE21	1:7:403:MET:HE3	1.70	0.57
1:A:584:PHE:HZ	1:G:575:GLU:HG2	1.68	0.57
1:A:602:LEU:HB2	1:A:605:MET:HE3	1.87	0.57
1:K:342:GLN:HE21	1:K:403:MET:HE3	1.70	0.57
1:M:342:GLN:HE21	1:M:403:MET:HE3	1.70	0.57
1:M:389:GLY:HA3	1:c:704:ASN:O	2.05	0.57
1:M:497:ASN:OD1	1:M:498:ASN:N	2.36	0.57
1:R:436:ASN:HB2	1:S:354:VAL:CG1	2.35	0.57
1:X:602:LEU:HB2	1:X:605:MET:HE3	1.87	0.57
1:Y:250:PRO:HG3	1:Y:372:MET:HE3	1.86	0.57
1:Y:342:GLN:HE21	1:Y:403:MET:HE3	1.70	0.57
1:d:602:LEU:HB2	1:d:605:MET:HE3	1.87	0.57
1:f:584:PHE:HZ	1:h:575:GLU:HG2	1.68	0.57
1:g:250:PRO:HG3	1:g:372:MET:HE3	1.86	0.57
1:j:602:LEU:HB2	1:j:605:MET:HE3	1.87	0.57
1:o:602:LEU:HB2	1:o:605:MET:HE3	1.87	0.57
1:q:250:PRO:HG3	1:q:372:MET:HE3	1.86	0.57
1:q:436:ASN:HB2	1:r:354:VAL:CG1	2.35	0.57
1:r:436:ASN:HB2	1:s:354:VAL:CG1	2.35	0.57
1:t:436:ASN:HB2	1:u:354:VAL:CG1	2.35	0.57
1:y:342:GLN:HE21	1:y:403:MET:HE3	1.70	0.57
1:4:250:PRO:HG3	1:4:372:MET:HE3	1.86	0.57
1:7:250:PRO:HG3	1:7:372:MET:HE3	1.86	0.57
1:C:250:PRO:HG3	1:C:372:MET:HE3	1.86	0.57
1:F:354:VAL:CG1	1:Q:436:ASN:HB2	2.35	0.57
1:J:584:PHE:HZ	1:L:575:GLU:HG2	1.68	0.57
1:M:602:LEU:HB2	1:M:605:MET:HE3	1.87	0.57
1:N:611:ASP:OD1	1:N:729:THR:OG1	2.23	0.57
1:R:250:PRO:HG3	1:R:372:MET:HE3	1.86	0.57
1:S:436:ASN:HB2	1:U:354:VAL:CG1	2.35	0.57
1:c:575:GLU:HG2	1:p:584:PHE:HZ	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:342:GLN:HE21	1:e:403:MET:HE3	1.70	0.57
1:g:635:MET:H	1:h:477:ASN:HD22	1.53	0.57
1:h:602:LEU:HB2	1:h:605:MET:HE3	1.87	0.57
1:o:477:ASN:HD22	1:p:635:MET:H	1.53	0.57
1:r:342:GLN:HE21	1:r:403:MET:HE3	1.70	0.57
1:t:602:LEU:HB2	1:t:605:MET:HE3	1.87	0.57
1:v:602:LEU:HB2	1:v:605:MET:HE3	1.87	0.57
1:6:436:ASN:HB2	1:7:354:VAL:CG1	2.35	0.57
1:A:575:GLU:HG2	1:I:584:PHE:HZ	1.68	0.57
1:C:584:PHE:HZ	1:b:575:GLU:HG2	1.68	0.57
1:C:635:MET:H	1:M:477:ASN:HD22	1.53	0.57
1:D:602:LEU:HB2	1:D:605:MET:HE3	1.86	0.57
1:D:635:MET:H	1:P:477:ASN:HD22	1.53	0.57
1:E:477:ASN:HD22	1:Q:635:MET:H	1.53	0.57
1:G:602:LEU:HB2	1:G:605:MET:HE3	1.87	0.57
1:J:477:ASN:HD22	1:L:635:MET:H	1.53	0.57
1:J:602:LEU:HB2	1:J:605:MET:HE3	1.87	0.57
1:N:436:ASN:HB2	1:P:354:VAL:CG1	2.35	0.57
1:N:602:LEU:HB2	1:N:605:MET:HE3	1.87	0.57
1:P:342:GLN:HE21	1:P:403:MET:HE3	1.70	0.57
1:S:342:GLN:HE21	1:S:403:MET:HE3	1.70	0.57
1:V:354:VAL:CG1	1:X:436:ASN:HB2	2.35	0.57
1:V:477:ASN:HD22	1:e:635:MET:H	1.53	0.57
1:V:635:MET:H	1:X:477:ASN:HD22	1.53	0.57
1:W:257:TYR:OH	1:W:397:GLU:OE1	2.23	0.57
1:e:250:PRO:HG3	1:e:372:MET:HE3	1.86	0.57
1:i:436:ASN:HB2	1:j:354:VAL:CG1	2.35	0.57
1:j:477:ASN:HD22	1:k:635:MET:H	1.53	0.57
1:u:584:PHE:HZ	1:v:575:GLU:HG2	1.68	0.57
1:v:250:PRO:HG3	1:v:372:MET:HE3	1.86	0.57
1:w:436:ASN:HB2	1:x:354:VAL:CG1	2.35	0.57
1:A:250:PRO:HG3	1:A:372:MET:HE3	1.86	0.57
1:A:477:ASN:HD22	1:G:635:MET:H	1.53	0.57
1:E:436:ASN:HB2	1:Q:354:VAL:CG1	2.35	0.57
1:K:354:VAL:CG1	1:8:436:ASN:HB2	2.35	0.57
1:R:354:VAL:CG1	1:U:436:ASN:HB2	2.35	0.57
1:U:602:LEU:HB2	1:U:605:MET:HE3	1.87	0.57
1:W:436:ASN:HB2	1:Y:354:VAL:CG1	2.35	0.57
1:X:250:PRO:HG3	1:X:372:MET:HE3	1.86	0.57
1:a:611:ASP:OD1	1:a:729:THR:OG1	2.23	0.57
1:b:342:GLN:HE21	1:b:403:MET:HE3	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:250:PRO:HG3	1:c:372:MET:HE3	1.86	0.57
1:c:342:GLN:HE21	1:c:403:MET:HE3	1.70	0.57
1:c:635:MET:H	1:p:477:ASN:HD22	1.53	0.57
1:d:436:ASN:HB2	1:l:354:VAL:CG1	2.35	0.57
1:f:342:GLN:HE21	1:f:403:MET:HE3	1.70	0.57
1:h:225:SER:HG	1:h:318:ASN:H	1.53	0.57
1:i:602:LEU:HB2	1:i:605:MET:HE3	1.87	0.57
1:j:342:GLN:HE21	1:j:403:MET:HE3	1.70	0.57
1:k:602:LEU:HB2	1:k:605:MET:HE3	1.87	0.57
1:n:250:PRO:HG3	1:n:372:MET:HE3	1.86	0.57
1:o:436:ASN:HB2	1:p:354:VAL:CG1	2.35	0.57
1:q:354:VAL:CG1	1:s:436:ASN:HB2	2.35	0.57
1:s:602:LEU:HB2	1:s:605:MET:HE3	1.87	0.57
1:t:635:MET:H	1:v:477:ASN:HD22	1.53	0.57
1:w:342:GLN:HE21	1:w:403:MET:HE3	1.70	0.57
1:x:436:ASN:HB2	1:y:354:VAL:CG1	2.35	0.57
1:z:575:GLU:HG2	1:2:584:PHE:HZ	1.68	0.57
1:z:635:MET:H	1:2:477:ASN:HD22	1.53	0.57
1:2:602:LEU:HB2	1:2:605:MET:HE3	1.87	0.57
1:6:257:TYR:OH	1:6:397:GLU:OE1	2.23	0.57
1:C:477:ASN:HD22	1:b:635:MET:H	1.53	0.57
1:E:354:VAL:CG1	1:F:436:ASN:HB2	2.35	0.57
1:E:635:MET:H	1:F:477:ASN:HD22	1.53	0.57
1:H:436:ASN:HB2	1:W:354:VAL:CG1	2.35	0.57
1:O:354:VAL:CG1	1:n:436:ASN:HB2	2.35	0.57
1:o:250:PRO:HG3	1:o:372:MET:HE3	1.86	0.57
1:w:354:VAL:CG1	1:y:436:ASN:HB2	2.35	0.57
1:w:477:ASN:HD22	1:x:635:MET:H	1.53	0.57
1:w:635:MET:H	1:y:477:ASN:HD22	1.53	0.57
1:2:342:GLN:HE21	1:2:403:MET:HE3	1.70	0.57
1:3:611:ASP:OD1	1:3:729:THR:OG1	2.23	0.57
1:E:342:GLN:HE21	1:E:403:MET:HE3	1.70	0.56
1:J:342:GLN:HE21	1:J:403:MET:HE3	1.70	0.56
1:K:602:LEU:HB2	1:K:605:MET:HE3	1.87	0.56
1:O:370:VAL:HG11	1:P:655:PRO:HG3	1.88	0.56
1:R:342:GLN:HE21	1:R:403:MET:HE3	1.70	0.56
1:Z:436:ASN:HB2	1:4:354:VAL:CG1	2.35	0.56
1:c:611:ASP:OD1	1:c:729:THR:OG1	2.23	0.56
1:d:250:PRO:HG3	1:d:372:MET:HE3	1.86	0.56
1:e:611:ASP:OD1	1:e:729:THR:OG1	2.23	0.56
1:f:477:ASN:HD22	1:h:635:MET:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:575:GLU:HG2	1:g:584:PHE:HZ	1.68	0.56
1:f:635:MET:H	1:g:477:ASN:HD22	1.53	0.56
1:j:655:PRO:HG3	1:l:370:VAL:HG11	1.88	0.56
1:m:611:ASP:OD1	1:m:729:THR:OG1	2.23	0.56
1:z:342:GLN:HE21	1:z:403:MET:HE3	1.70	0.56
1:z:354:VAL:CG1	1:2:436:ASN:HB2	2.35	0.56
1:z:602:LEU:HB2	1:z:605:MET:HE3	1.87	0.56
1:4:602:LEU:HB2	1:4:605:MET:HE3	1.87	0.56
1:5:436:ASN:HB2	1:6:354:VAL:CG1	2.35	0.56
1:D:257:TYR:OH	1:D:397:GLU:OE1	2.23	0.56
1:L:602:LEU:HB2	1:L:605:MET:HE3	1.87	0.56
1:O:250:PRO:HG3	1:O:372:MET:HE3	1.86	0.56
1:P:370:VAL:HG11	1:Q:655:PRO:HG3	1.88	0.56
1:S:602:LEU:HB2	1:S:605:MET:HE3	1.87	0.56
1:T:436:ASN:HB2	1:d:354:VAL:CG1	2.35	0.56
1:T:611:ASP:OD1	1:T:729:THR:OG1	2.23	0.56
1:d:477:ASN:HD22	1:l:635:MET:H	1.53	0.56
1:f:436:ASN:HB2	1:h:354:VAL:CG1	2.35	0.56
1:g:354:VAL:CG1	1:h:436:ASN:HB2	2.35	0.56
1:j:250:PRO:HG3	1:j:372:MET:HE3	1.86	0.56
1:j:436:ASN:HB2	1:k:354:VAL:CG1	2.35	0.56
1:m:342:GLN:HE21	1:m:403:MET:HE3	1.70	0.56
1:q:477:ASN:HD22	1:r:635:MET:H	1.53	0.56
1:r:602:LEU:HB2	1:r:605:MET:HE3	1.87	0.56
1:x:602:LEU:HB2	1:x:605:MET:HE3	1.87	0.56
1:A:354:VAL:CG1	1:I:436:ASN:HB2	2.35	0.56
1:B:602:LEU:HB2	1:B:605:MET:HE3	1.87	0.56
1:D:354:VAL:CG1	1:P:436:ASN:HB2	2.35	0.56
1:D:655:PRO:HG3	1:E:370:VAL:HG11	1.88	0.56
1:H:602:LEU:HB2	1:H:605:MET:HE3	1.87	0.56
1:J:436:ASN:HB2	1:L:354:VAL:CG1	2.35	0.56
1:K:370:VAL:HG11	1:L:655:PRO:HG3	1.88	0.56
1:K:655:PRO:HG3	1:7:370:VAL:HG11	1.87	0.56
1:L:342:GLN:HE21	1:L:403:MET:HE3	1.70	0.56
1:M:383:ASN:HD22	1:c:707:LYS:HD3	1.71	0.56
1:N:225:SER:HG	1:N:318:ASN:H	1.54	0.56
1:O:635:MET:H	1:n:477:ASN:HD22	1.53	0.56
1:P:250:PRO:HG3	1:P:372:MET:HE3	1.86	0.56
1:Q:602:LEU:HB2	1:Q:605:MET:HE3	1.87	0.56
1:R:477:ASN:HD22	1:S:635:MET:H	1.53	0.56
1:T:250:PRO:HG3	1:T:372:MET:HE3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:342:GLN:HE21	1:T:403:MET:HE3	1.70	0.56
1:T:602:LEU:HB2	1:T:605:MET:HE3	1.87	0.56
1:Y:370:VAL:HG11	1:4:655:PRO:HG3	1.88	0.56
1:b:602:LEU:HB2	1:b:605:MET:HE3	1.87	0.56
1:f:602:LEU:HB2	1:f:605:MET:HE3	1.87	0.56
1:j:370:VAL:HG11	1:x:655:PRO:HG3	1.88	0.56
1:k:257:TYR:OH	1:k:397:GLU:OE1	2.23	0.56
1:l:250:PRO:HG3	1:l:372:MET:HE3	1.86	0.56
1:m:250:PRO:HG3	1:m:372:MET:HE3	1.86	0.56
1:m:436:ASN:HB2	1:n:354:VAL:CG1	2.35	0.56
1:m:602:LEU:HB2	1:m:605:MET:HE3	1.87	0.56
1:o:257:TYR:OH	1:o:397:GLU:OE1	2.23	0.56
1:p:655:PRO:HG3	1:6:370:VAL:HG11	1.88	0.56
1:q:342:GLN:HE21	1:q:403:MET:HE3	1.70	0.56
1:q:611:ASP:OD1	1:q:729:THR:OG1	2.23	0.56
1:r:477:ASN:HD22	1:s:635:MET:H	1.53	0.56
1:u:655:PRO:HG3	1:5:370:VAL:HG11	1.87	0.56
1:z:611:ASP:OD1	1:z:729:THR:OG1	2.23	0.56
1:z:655:PRO:HG3	1:4:370:VAL:HG11	1.88	0.56
1:1:602:LEU:HB2	1:1:605:MET:HE3	1.87	0.56
1:5:383:ASN:HD22	1:8:707:LYS:HD3	1.71	0.56
1:B:250:PRO:HG3	1:B:372:MET:HE3	1.86	0.56
1:B:354:VAL:CG1	1:L:436:ASN:HB2	2.35	0.56
1:E:250:PRO:HG3	1:E:372:MET:HE3	1.86	0.56
1:G:477:ASN:HD22	1:I:635:MET:H	1.53	0.56
1:H:250:PRO:HG3	1:H:372:MET:HE3	1.86	0.56
1:H:370:VAL:HG11	1:I:655:PRO:HG3	1.88	0.56
1:H:477:ASN:HD22	1:W:635:MET:H	1.53	0.56
1:L:370:VAL:HG11	1:b:655:PRO:HG3	1.87	0.56
1:L:611:ASP:OD1	1:L:729:THR:OG1	2.23	0.56
1:M:575:GLU:HG2	1:b:584:PHE:HZ	1.69	0.56
1:R:611:ASP:OD1	1:R:729:THR:OG1	2.23	0.56
1:V:655:PRO:HG3	1:W:370:VAL:HG11	1.88	0.56
1:X:655:PRO:HG3	1:f:370:VAL:HG11	1.88	0.56
1:a:436:ASN:HB2	1:8:354:VAL:CG1	2.35	0.56
1:b:225:SER:HG	1:b:318:ASN:H	1.53	0.56
1:b:370:VAL:HG11	1:o:655:PRO:HG3	1.88	0.56
1:g:225:SER:HG	1:g:318:ASN:H	1.53	0.56
1:i:342:GLN:HE21	1:i:403:MET:HE3	1.70	0.56
1:k:655:PRO:HG3	1:w:370:VAL:HG11	1.88	0.56
1:l:655:PRO:HG3	1:n:370:VAL:HG11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:225:SER:HG	1:r:318:ASN:H	1.53	0.56
1:t:477:ASN:HD22	1:u:635:MET:H	1.53	0.56
1:u:342:GLN:HE21	1:u:403:MET:HE3	1.70	0.56
1:w:250:PRO:HG3	1:w:372:MET:HE3	1.86	0.56
1:z:436:ASN:HB2	1:1:354:VAL:CG1	2.35	0.56
1:1:250:PRO:HG3	1:1:372:MET:HE3	1.86	0.56
1:5:250:PRO:HG3	1:5:372:MET:HE3	1.86	0.56
1:5:477:ASN:HD22	1:6:635:MET:H	1.53	0.56
1:5:602:LEU:HB2	1:5:605:MET:HE3	1.87	0.56
1:6:225:SER:HG	1:6:318:ASN:H	1.53	0.56
1:A:225:SER:HG	1:A:318:ASN:H	1.53	0.56
1:C:225:SER:HG	1:C:318:ASN:H	1.53	0.56
1:F:389:GLY:HA3	1:R:704:ASN:O	2.06	0.56
1:H:383:ASN:HD22	1:Z:707:LYS:HD3	1.71	0.56
1:J:250:PRO:HG3	1:J:372:MET:HE3	1.86	0.56
1:J:704:ASN:O	1:a:389:GLY:HA3	2.06	0.56
1:M:250:PRO:HG3	1:M:372:MET:HE3	1.86	0.56
1:O:389:GLY:HA3	1:d:704:ASN:O	2.06	0.56
1:O:655:PRO:HG3	1:d:370:VAL:HG11	1.88	0.56
1:S:477:ASN:HD22	1:U:635:MET:H	1.53	0.56
1:U:704:ASN:O	1:e:389:GLY:HA3	2.06	0.56
1:V:389:GLY:HA3	1:W:704:ASN:O	2.06	0.56
1:Y:602:LEU:HB2	1:Y:605:MET:HE3	1.87	0.56
1:c:389:GLY:HA3	1:s:704:ASN:O	2.06	0.56
1:i:225:SER:HG	1:i:318:ASN:H	1.54	0.56
1:l:342:GLN:HE21	1:l:403:MET:HE3	1.70	0.56
1:l:389:GLY:HA3	1:n:704:ASN:O	2.06	0.56
1:q:370:VAL:HG11	1:y:655:PRO:HG3	1.88	0.56
1:q:704:ASN:O	1:y:389:GLY:HA3	2.06	0.56
1:r:655:PRO:HG3	1:x:370:VAL:HG11	1.88	0.56
1:u:436:ASN:HB2	1:v:354:VAL:CG1	2.35	0.56
1:2:250:PRO:HG3	1:2:372:MET:HE3	1.86	0.56
1:2:704:ASN:O	1:3:389:GLY:HA3	2.06	0.56
1:7:602:LEU:HB2	1:7:605:MET:HE3	1.87	0.56
1:A:342:GLN:HE21	1:A:403:MET:HE3	1.70	0.56
1:B:655:PRO:HG3	1:C:370:VAL:HG11	1.88	0.56
1:C:389:GLY:HA3	1:D:704:ASN:O	2.06	0.56
1:F:635:MET:H	1:Q:477:ASN:HD22	1.53	0.56
1:F:655:PRO:HG3	1:R:370:VAL:HG11	1.88	0.56
1:F:704:ASN:O	1:G:389:GLY:HA3	2.06	0.56
1:H:635:MET:H	1:Y:477:ASN:HD22	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:342:GLN:HE21	1:I:403:MET:HE3	1.70	0.56
1:N:342:GLN:HE21	1:N:403:MET:HE3	1.70	0.56
1:Q:370:VAL:HG11	1:S:655:PRO:HG3	1.88	0.56
1:T:655:PRO:HG3	1:i:370:VAL:HG11	1.88	0.56
1:U:225:SER:HG	1:U:318:ASN:H	1.53	0.56
1:U:250:PRO:HG3	1:U:372:MET:HE3	1.86	0.56
1:V:436:ASN:HB2	1:e:354:VAL:CG1	2.35	0.56
1:W:225:SER:HG	1:W:318:ASN:H	1.54	0.56
1:X:370:VAL:HG11	1:Y:655:PRO:HG3	1.88	0.56
1:Z:354:VAL:CG1	1:3:436:ASN:HB2	2.35	0.56
1:Z:389:GLY:HA3	1:a:704:ASN:O	2.06	0.56
1:e:370:VAL:HG11	1:h:655:PRO:HG3	1.88	0.56
1:e:707:LYS:HD3	1:h:383:ASN:HD22	1.71	0.56
1:f:225:SER:HG	1:f:318:ASN:H	1.53	0.56
1:f:655:PRO:HG3	1:z:370:VAL:HG11	1.87	0.56
1:g:370:VAL:HG11	1:l:655:PRO:HG3	1.88	0.56
1:h:250:PRO:HG3	1:h:372:MET:HE3	1.86	0.56
1:o:370:VAL:HG11	1:7:655:PRO:HG3	1.88	0.56
1:p:225:SER:HG	1:p:318:ASN:H	1.53	0.56
1:p:389:GLY:HA3	1:6:704:ASN:O	2.06	0.56
1:p:602:LEU:HB2	1:p:605:MET:HE3	1.87	0.56
1:t:389:GLY:HA3	1:y:704:ASN:O	2.06	0.56
1:v:225:SER:HG	1:v:318:ASN:H	1.53	0.56
1:z:477:ASN:HD22	1:l:635:MET:H	1.53	0.56
1:3:704:ASN:O	1:8:389:GLY:HA3	2.06	0.56
1:5:389:GLY:HA3	1:8:704:ASN:O	2.06	0.56
1:5:635:MET:H	1:7:477:ASN:HD22	1.53	0.56
1:6:342:GLN:HE21	1:6:403:MET:HE3	1.70	0.56
1:8:602:LEU:HB2	1:8:605:MET:HE3	1.87	0.56
1:B:635:MET:H	1:L:477:ASN:HD22	1.53	0.56
1:C:342:GLN:HE21	1:C:403:MET:HE3	1.70	0.56
1:H:389:GLY:HA3	1:Z:704:ASN:O	2.06	0.56
1:J:370:VAL:HG11	1:a:655:PRO:HG3	1.88	0.56
1:M:390:ARG:HH12	1:b:565:GLU:HG3	1.71	0.56
1:N:370:VAL:HG11	1:m:655:PRO:HG3	1.88	0.56
1:N:477:ASN:HD22	1:P:635:MET:H	1.53	0.56
1:O:225:SER:HG	1:O:318:ASN:H	1.54	0.56
1:R:389:GLY:HA3	1:V:704:ASN:O	2.06	0.56
1:W:342:GLN:HE21	1:W:403:MET:HE3	1.70	0.56
1:Z:602:LEU:HB2	1:Z:605:MET:HE3	1.87	0.56
1:b:704:ASN:O	1:o:389:GLY:HA3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:354:VAL:CG1	1:p:436:ASN:HB2	2.34	0.56
1:g:342:GLN:HE21	1:g:403:MET:HE3	1.70	0.56
1:g:389:GLY:HA3	1:k:704:ASN:O	2.06	0.56
1:j:704:ASN:O	1:x:389:GLY:HA3	2.06	0.56
1:p:704:ASN:O	1:q:389:GLY:HA3	2.06	0.56
1:s:250:PRO:HG3	1:s:372:MET:HE3	1.86	0.56
1:u:383:ASN:HD22	1:5:707:LYS:HD3	1.71	0.56
1:x:477:ASN:HD22	1:y:635:MET:H	1.53	0.56
1:B:436:ASN:HB2	1:J:354:VAL:CG1	2.35	0.56
1:F:250:PRO:HG3	1:F:372:MET:HE3	1.86	0.56
1:H:707:LYS:HD3	1:I:383:ASN:HD22	1.71	0.56
1:K:389:GLY:HA3	1:7:704:ASN:O	2.06	0.56
1:M:354:VAL:CG1	1:b:436:ASN:HB2	2.35	0.56
1:O:342:GLN:HE21	1:O:403:MET:HE3	1.70	0.56
1:P:704:ASN:O	1:Q:389:GLY:HA3	2.06	0.56
1:S:225:SER:HG	1:S:318:ASN:H	1.53	0.56
1:V:602:LEU:HB2	1:V:605:MET:HE3	1.87	0.56
1:X:389:GLY:HA3	1:f:704:ASN:O	2.06	0.56
1:e:704:ASN:O	1:h:389:GLY:HA3	2.06	0.56
1:l:225:SER:HG	1:l:318:ASN:H	1.53	0.56
1:o:342:GLN:HE21	1:o:403:MET:HE3	1.70	0.56
1:t:354:VAL:CG1	1:v:436:ASN:HB2	2.35	0.56
1:1:436:ASN:HB2	1:2:354:VAL:CG1	2.35	0.56
1:2:370:VAL:HG11	1:3:655:PRO:HG3	1.88	0.56
1:5:354:VAL:CG1	1:7:436:ASN:HB2	2.35	0.56
1:7:225:SER:HG	1:7:318:ASN:H	1.53	0.56
1:A:436:ASN:HB2	1:G:354:VAL:CG1	2.35	0.56
1:A:707:LYS:HD3	1:E:383:ASN:HD22	1.71	0.56
1:C:655:PRO:HG3	1:D:370:VAL:HG11	1.87	0.56
1:G:704:ASN:O	1:W:389:GLY:HA3	2.06	0.56
1:H:354:VAL:CG1	1:Y:436:ASN:HB2	2.35	0.56
1:N:707:LYS:HD3	1:m:383:ASN:HD22	1.71	0.56
1:O:707:LYS:HD3	1:P:383:ASN:HD22	1.71	0.56
1:S:707:LYS:HD3	1:d:383:ASN:HD22	1.71	0.56
1:T:370:VAL:HG11	1:U:655:PRO:HG3	1.88	0.56
1:T:383:ASN:HD22	1:i:707:LYS:HD3	1.71	0.56
1:V:250:PRO:HG3	1:V:372:MET:HE3	1.86	0.56
1:W:602:LEU:HB2	1:W:605:MET:HE3	1.87	0.56
1:Y:704:ASN:O	1:4:389:GLY:HA3	2.06	0.56
1:Z:635:MET:H	1:3:477:ASN:HD22	1.53	0.56
1:g:655:PRO:HG3	1:k:370:VAL:HG11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:707:LYS:HD3	1:i:383:ASN:HD22	1.71	0.56
1:i:477:ASN:HD22	1:j:635:MET:H	1.53	0.56
1:m:370:VAL:HG11	1:s:655:PRO:HG3	1.88	0.56
1:n:383:ASN:HD22	1:r:707:LYS:HD3	1.71	0.56
1:p:250:PRO:HG3	1:p:372:MET:HE3	1.86	0.56
1:s:225:SER:HG	1:s:318:ASN:H	1.53	0.56
1:v:342:GLN:HE21	1:v:403:MET:HE3	1.70	0.56
1:v:704:ASN:O	1:w:389:GLY:HA3	2.06	0.56
1:v:707:LYS:HD3	1:w:383:ASN:HD22	1.71	0.56
1:y:250:PRO:HG3	1:y:372:MET:HE3	1.86	0.56
1:E:602:LEU:HB2	1:E:605:MET:HE3	1.87	0.56
1:J:707:LYS:HD3	1:a:383:ASN:HD22	1.71	0.56
1:O:704:ASN:O	1:P:389:GLY:HA3	2.06	0.56
1:Q:704:ASN:O	1:S:389:GLY:HA3	2.06	0.56
1:T:225:SER:HG	1:T:318:ASN:H	1.53	0.56
1:X:342:GLN:HE21	1:X:403:MET:HE3	1.70	0.56
1:a:250:PRO:HG3	1:a:372:MET:HE3	1.86	0.56
1:a:477:ASN:HD22	1:8:635:MET:H	1.53	0.56
1:j:389:GLY:HA3	1:l:704:ASN:O	2.06	0.56
1:t:704:ASN:O	1:6:389:GLY:HA3	2.06	0.56
1:u:611:ASP:OD1	1:u:729:THR:OG1	2.23	0.56
1:v:655:PRO:HG3	1:1:370:VAL:HG11	1.88	0.56
1:w:602:LEU:HB2	1:w:605:MET:HE3	1.87	0.56
1:A:655:PRO:HG3	1:B:370:VAL:HG11	1.88	0.55
1:A:704:ASN:O	1:E:389:GLY:HA3	2.06	0.55
1:D:436:ASN:HB2	1:N:354:VAL:CG1	2.35	0.55
1:G:370:VAL:HG11	1:W:655:PRO:HG3	1.88	0.55
1:I:611:ASP:OD1	1:I:729:THR:OG1	2.23	0.55
1:I:704:ASN:O	1:J:389:GLY:HA3	2.06	0.55
1:L:707:LYS:HD3	1:b:383:ASN:HD22	1.71	0.55
1:O:436:ASN:HB2	1:m:354:VAL:CG1	2.35	0.55
1:Q:707:LYS:HD3	1:S:383:ASN:HD22	1.71	0.55
1:Y:707:LYS:HD3	1:4:383:ASN:HD22	1.71	0.55
1:f:383:ASN:HD22	1:z:707:LYS:HD3	1.71	0.55
1:j:383:ASN:HD22	1:l:707:LYS:HD3	1.71	0.55
1:r:383:ASN:HD22	1:x:707:LYS:HD3	1.71	0.55
1:r:389:GLY:HA3	1:x:704:ASN:O	2.06	0.55
1:u:257:TYR:OH	1:u:397:GLU:OE1	2.23	0.55
1:u:704:ASN:O	1:2:389:GLY:HA3	2.06	0.55
1:y:611:ASP:OD1	1:y:729:THR:OG1	2.23	0.55
1:2:707:LYS:HD3	1:3:383:ASN:HD22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:250:PRO:HG3	1:3:372:MET:HE3	1.86	0.55
1:6:602:LEU:HB2	1:6:605:MET:HE3	1.87	0.55
1:I:707:LYS:HD3	1:J:383:ASN:HD22	1.71	0.55
1:K:383:ASN:HD22	1:7:707:LYS:HD3	1.71	0.55
1:K:575:GLU:HG2	1:8:584:PHE:HZ	1.68	0.55
1:T:354:VAL:CG1	1:l:436:ASN:HB2	2.35	0.55
1:T:704:ASN:O	1:U:389:GLY:HA3	2.06	0.55
1:m:704:ASN:O	1:s:389:GLY:HA3	2.06	0.55
1:n:225:SER:HG	1:n:318:ASN:H	1.53	0.55
1:t:370:VAL:HG11	1:6:655:PRO:HG3	1.88	0.55
1:u:707:LYS:HD3	1:2:383:ASN:HD22	1.71	0.55
1:8:611:ASP:OD1	1:8:729:THR:OG1	2.23	0.55
1:F:602:LEU:HB2	1:F:605:MET:HE3	1.87	0.55
1:F:611:ASP:OD1	1:F:729:THR:OG1	2.23	0.55
1:M:370:VAL:HG11	1:N:655:PRO:HG3	1.87	0.55
1:Z:225:SER:HG	1:Z:318:ASN:H	1.54	0.55
1:Z:584:PHE:HZ	1:4:575:GLU:HG2	1.68	0.55
1:Z:611:ASP:OD1	1:Z:729:THR:OG1	2.23	0.55
1:g:383:ASN:HD22	1:k:707:LYS:HD3	1.71	0.55
1:i:354:VAL:CG1	1:k:436:ASN:HB2	2.35	0.55
1:y:257:TYR:OH	1:y:397:GLU:OE1	2.23	0.55
1:7:611:ASP:OD1	1:7:729:THR:OG1	2.23	0.55
1:C:383:ASN:HD22	1:D:707:LYS:HD3	1.71	0.55
1:F:383:ASN:HD22	1:R:707:LYS:HD3	1.71	0.55
1:O:257:TYR:OH	1:O:397:GLU:OE1	2.23	0.55
1:P:707:LYS:HD3	1:Q:383:ASN:HD22	1.71	0.55
1:T:477:ASN:HD22	1:d:635:MET:H	1.53	0.55
1:Y:611:ASP:OD1	1:Y:729:THR:OG1	2.23	0.55
1:q:707:LYS:HD3	1:y:383:ASN:HD22	1.71	0.55
1:t:655:PRO:HG3	1:y:370:VAL:HG11	1.88	0.55
1:B:389:GLY:HA3	1:C:704:ASN:O	2.06	0.55
1:M:707:LYS:HD3	1:N:383:ASN:HD22	1.72	0.55
1:O:602:LEU:HB2	1:O:605:MET:HE3	1.87	0.55
1:Q:225:SER:HG	1:Q:318:ASN:H	1.53	0.55
1:T:707:LYS:HD3	1:U:383:ASN:HD22	1.71	0.55
1:l:257:TYR:OH	1:l:397:GLU:OE1	2.23	0.55
1:y:602:LEU:HB2	1:y:605:MET:HE3	1.87	0.55
1:K:704:ASN:O	1:L:389:GLY:HA3	2.06	0.55
1:M:704:ASN:O	1:N:389:GLY:HA3	2.06	0.55
1:R:225:SER:HG	1:R:318:ASN:H	1.53	0.55
1:V:225:SER:HG	1:V:318:ASN:H	1.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:383:ASN:HD22	1:a:707:LYS:HD3	1.71	0.55
1:Z:655:PRO:HG3	1:a:370:VAL:HG11	1.88	0.55
1:b:611:ASP:OD1	1:b:729:THR:OG1	2.23	0.55
1:c:383:ASN:HD22	1:s:707:LYS:HD3	1.71	0.55
1:j:707:LYS:HD3	1:x:383:ASN:HD22	1.71	0.55
1:k:225:SER:HG	1:k:318:ASN:H	1.53	0.55
1:m:477:ASN:HD22	1:n:635:MET:H	1.53	0.55
1:p:383:ASN:HD22	1:6:707:LYS:HD3	1.71	0.55
1:t:383:ASN:HD22	1:y:707:LYS:HD3	1.71	0.55
1:u:477:ASN:HD22	1:v:635:MET:H	1.53	0.55
1:v:389:GLY:HA3	1:1:704:ASN:O	2.06	0.55
1:w:487:GLN:HE22	1:y:585:GLN:H	1.55	0.55
1:A:389:GLY:HA3	1:B:704:ASN:O	2.06	0.55
1:A:635:MET:H	1:I:477:ASN:HD22	1.53	0.55
1:B:390:ARG:HH12	1:L:565:GLU:HG3	1.72	0.55
1:D:342:GLN:HE21	1:D:403:MET:HE3	1.70	0.55
1:D:565:GLU:HG3	1:N:390:ARG:HH12	1.72	0.55
1:E:487:GLN:HE22	1:F:585:GLN:H	1.55	0.55
1:F:370:VAL:HG11	1:G:655:PRO:HG3	1.88	0.55
1:H:225:SER:HG	1:H:318:ASN:H	1.53	0.55
1:H:655:PRO:HG3	1:Z:370:VAL:HG11	1.88	0.55
1:U:707:LYS:HD3	1:e:383:ASN:HD22	1.71	0.55
1:W:477:ASN:HD22	1:Y:635:MET:H	1.53	0.55
1:f:565:GLU:HG3	1:h:390:ARG:HH12	1.72	0.55
1:g:704:ASN:O	1:1:389:GLY:HA3	2.06	0.55
1:k:342:GLN:HE21	1:k:403:MET:HE3	1.70	0.55
1:l:602:LEU:HB2	1:l:605:MET:HE3	1.87	0.55
1:m:707:LYS:HD3	1:s:383:ASN:HD22	1.71	0.55
1:z:389:GLY:HA3	1:4:704:ASN:O	2.06	0.55
1:5:655:PRO:HG3	1:8:370:VAL:HG11	1.88	0.55
1:6:477:ASN:HD22	1:7:635:MET:H	1.53	0.55
1:D:225:SER:HG	1:D:318:ASN:H	1.53	0.55
1:D:389:GLY:HA3	1:E:704:ASN:O	2.06	0.55
1:F:707:LYS:HD3	1:G:383:ASN:HD22	1.71	0.55
1:G:707:LYS:HD3	1:W:383:ASN:HD22	1.71	0.55
1:K:225:SER:HG	1:K:318:ASN:H	1.53	0.55
1:K:635:MET:H	1:8:477:ASN:HD22	1.53	0.55
1:N:704:ASN:O	1:m:389:GLY:HA3	2.06	0.55
1:O:477:ASN:HD22	1:m:635:MET:H	1.53	0.55
1:R:383:ASN:HD22	1:V:707:LYS:HD3	1.71	0.55
1:S:704:ASN:O	1:d:389:GLY:HA3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:383:ASN:HD22	1:W:707:LYS:HD3	1.71	0.55
1:X:635:MET:H	1:e:477:ASN:HD22	1.53	0.55
1:Z:477:ASN:HD22	1:4:635:MET:H	1.53	0.55
1:d:225:SER:HG	1:d:318:ASN:H	1.53	0.55
1:h:704:ASN:O	1:i:389:GLY:HA3	2.06	0.55
1:i:390:ARG:HH12	1:k:565:GLU:HG3	1.72	0.55
1:k:383:ASN:HD22	1:w:707:LYS:HD3	1.71	0.55
1:l:383:ASN:HD22	1:n:707:LYS:HD3	1.71	0.55
1:p:707:LYS:HD3	1:q:383:ASN:HD22	1.71	0.55
1:t:707:LYS:HD3	1:6:383:ASN:HD22	1.71	0.55
1:z:565:GLU:HG3	1:1:390:ARG:HH12	1.72	0.55
1:3:370:VAL:HG11	1:8:655:PRO:HG3	1.88	0.55
1:3:707:LYS:HD3	1:8:383:ASN:HD22	1.71	0.55
1:8:225:SER:HG	1:8:318:ASN:H	1.53	0.55
1:C:565:GLU:HG3	1:b:390:ARG:HH12	1.72	0.55
1:D:383:ASN:HD22	1:E:707:LYS:HD3	1.71	0.55
1:D:477:ASN:HD22	1:N:635:MET:H	1.53	0.55
1:J:585:GLN:H	1:L:487:GLN:HE22	1.55	0.55
1:L:704:ASN:O	1:b:389:GLY:HA3	2.06	0.55
1:O:383:ASN:HD22	1:d:707:LYS:HD3	1.71	0.55
1:T:635:MET:H	1:l:477:ASN:HD22	1.53	0.55
1:V:585:GLN:H	1:e:487:GLN:HE22	1.55	0.55
1:a:257:TYR:OH	1:a:397:GLU:OE1	2.23	0.55
1:c:225:SER:HG	1:c:318:ASN:H	1.53	0.55
1:f:390:ARG:HH12	1:g:565:GLU:HG3	1.72	0.55
1:f:611:ASP:OD1	1:f:729:THR:OG1	2.23	0.55
1:g:390:ARG:HH12	1:h:565:GLU:HG3	1.72	0.55
1:n:389:GLY:HA3	1:r:704:ASN:O	2.06	0.55
1:q:225:SER:HG	1:q:318:ASN:H	1.53	0.55
1:x:225:SER:HG	1:x:318:ASN:H	1.53	0.55
1:A:565:GLU:HG3	1:G:390:ARG:HH12	1.72	0.55
1:A:585:GLN:H	1:G:487:GLN:HE22	1.55	0.55
1:E:611:ASP:OD1	1:E:729:THR:OG1	2.23	0.55
1:H:565:GLU:HG3	1:W:390:ARG:HH12	1.72	0.55
1:K:487:GLN:HE22	1:8:585:GLN:H	1.55	0.55
1:N:565:GLU:HG3	1:P:390:ARG:HH12	1.72	0.55
1:O:585:GLN:H	1:m:487:GLN:HE22	1.55	0.55
1:T:389:GLY:HA3	1:i:704:ASN:O	2.06	0.55
1:T:487:GLN:HE22	1:l:585:GLN:H	1.55	0.55
1:X:383:ASN:HD22	1:f:707:LYS:HD3	1.71	0.55
1:Z:585:GLN:H	1:4:487:GLN:HE22	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:487:GLN:HE22	1:p:585:GLN:H	1.55	0.55
1:c:585:GLN:H	1:o:487:GLN:HE22	1.55	0.55
1:f:389:GLY:HA3	1:z:704:ASN:O	2.06	0.55
1:i:635:MET:H	1:k:477:ASN:HD22	1.53	0.55
1:k:389:GLY:HA3	1:w:704:ASN:O	2.06	0.55
1:t:225:SER:HG	1:t:318:ASN:H	1.53	0.55
1:t:390:ARG:HH12	1:v:565:GLU:HG3	1.72	0.55
1:w:611:ASP:OD1	1:w:729:THR:OG1	2.23	0.55
1:z:487:GLN:HE22	1:2:585:GLN:H	1.55	0.55
1:1:565:GLU:HG3	1:2:390:ARG:HH12	1.72	0.55
1:3:257:TYR:OH	1:3:397:GLU:OE1	2.23	0.55
1:5:565:GLU:HG3	1:6:390:ARG:HH12	1.72	0.55
1:B:225:SER:HG	1:B:318:ASN:H	1.54	0.54
1:B:565:GLU:HG3	1:J:390:ARG:HH12	1.72	0.54
1:D:390:ARG:HH12	1:P:565:GLU:HG3	1.72	0.54
1:G:225:SER:HG	1:G:318:ASN:H	1.53	0.54
1:J:225:SER:HG	1:J:318:ASN:H	1.53	0.54
1:W:565:GLU:HG3	1:Y:390:ARG:HH12	1.72	0.54
1:X:487:GLN:HE22	1:e:585:GLN:H	1.55	0.54
1:X:704:ASN:O	1:Y:389:GLY:HA3	2.06	0.54
1:Z:383:ASN:ND2	1:a:707:LYS:HD3	2.22	0.54
1:c:477:ASN:HD22	1:o:635:MET:H	1.53	0.54
1:i:565:GLU:HG3	1:j:390:ARG:HH12	1.72	0.54
1:t:487:GLN:HE22	1:v:585:GLN:H	1.55	0.54
1:z:390:ARG:HH12	1:2:565:GLU:HG3	1.72	0.54
1:1:225:SER:HG	1:1:318:ASN:H	1.54	0.54
1:B:383:ASN:HD22	1:C:707:LYS:HD3	1.71	0.54
1:D:383:ASN:ND2	1:E:707:LYS:HD3	2.23	0.54
1:E:585:GLN:H	1:Q:487:GLN:HE22	1.55	0.54
1:H:704:ASN:O	1:I:389:GLY:HA3	2.06	0.54
1:J:565:GLU:HG3	1:L:390:ARG:HH12	1.72	0.54
1:K:477:ASN:HD22	1:a:635:MET:H	1.53	0.54
1:K:707:LYS:HD3	1:L:383:ASN:HD22	1.71	0.54
1:M:257:TYR:OH	1:M:397:GLU:OE1	2.23	0.54
1:O:565:GLU:HG3	1:m:390:ARG:HH12	1.72	0.54
1:R:635:MET:H	1:U:477:ASN:HD22	1.53	0.54
1:S:370:VAL:HG11	1:d:655:PRO:HG3	1.88	0.54
1:V:611:ASP:OD1	1:V:729:THR:OG1	2.23	0.54
1:b:380:THR:HG21	1:b:392:SER:O	2.08	0.54
1:b:707:LYS:HD3	1:o:383:ASN:HD22	1.71	0.54
1:d:565:GLU:HG3	1:l:390:ARG:HH12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:257:TYR:OH	1:h:397:GLU:OE1	2.23	0.54
1:h:370:VAL:HG11	1:i:655:PRO:HG3	1.88	0.54
1:j:565:GLU:HG3	1:k:390:ARG:HH12	1.72	0.54
1:o:704:ASN:O	1:7:389:GLY:HA3	2.06	0.54
1:p:370:VAL:HG11	1:q:655:PRO:HG3	1.88	0.54
1:p:611:ASP:OD1	1:p:729:THR:OG1	2.23	0.54
1:u:389:GLY:HA3	1:5:704:ASN:O	2.06	0.54
1:v:383:ASN:HD22	1:1:707:LYS:HD3	1.71	0.54
1:z:383:ASN:HD22	1:4:707:LYS:HD3	1.71	0.54
1:1:477:ASN:HD22	1:2:635:MET:H	1.53	0.54
1:B:257:TYR:OH	1:B:397:GLU:OE1	2.23	0.54
1:C:380:THR:HG21	1:C:392:SER:O	2.08	0.54
1:D:380:THR:HG21	1:D:392:SER:O	2.08	0.54
1:G:719:GLY:HA2	1:W:257:TYR:O	2.08	0.54
1:L:719:GLY:HA2	1:b:257:TYR:O	2.08	0.54
1:M:257:TYR:O	1:c:719:GLY:HA2	2.07	0.54
1:O:390:ARG:HH12	1:n:565:GLU:HG3	1.72	0.54
1:P:225:SER:HG	1:P:318:ASN:H	1.53	0.54
1:R:655:PRO:HG3	1:V:370:VAL:HG11	1.88	0.54
1:T:380:THR:HG21	1:T:392:SER:O	2.08	0.54
1:T:390:ARG:HH12	1:l:565:GLU:HG3	1.72	0.54
1:U:370:VAL:HG11	1:e:655:PRO:HG3	1.87	0.54
1:V:390:ARG:HH12	1:X:565:GLU:HG3	1.72	0.54
1:V:565:GLU:HG3	1:e:390:ARG:HH12	1.72	0.54
1:f:380:THR:HG21	1:f:392:SER:O	2.08	0.54
1:g:380:THR:HG21	1:g:392:SER:O	2.08	0.54
1:k:383:ASN:ND2	1:w:707:LYS:HD3	2.23	0.54
1:m:380:THR:HG21	1:m:392:SER:O	2.08	0.54
1:o:565:GLU:HG3	1:p:390:ARG:HH12	1.72	0.54
1:q:635:MET:H	1:s:477:ASN:HD22	1.53	0.54
1:t:719:GLY:HA2	1:6:257:TYR:O	2.08	0.54
1:u:370:VAL:HG11	1:2:655:PRO:HG3	1.88	0.54
1:w:390:ARG:HH12	1:y:565:GLU:HG3	1.72	0.54
1:w:585:GLN:H	1:x:487:GLN:HE22	1.55	0.54
1:3:635:MET:H	1:4:477:ASN:HD22	1.53	0.54
1:3:707:LYS:HD3	1:8:383:ASN:ND2	2.23	0.54
1:6:565:GLU:HG3	1:7:390:ARG:HH12	1.72	0.54
1:A:383:ASN:HD22	1:B:707:LYS:HD3	1.71	0.54
1:B:477:ASN:HD22	1:J:635:MET:H	1.53	0.54
1:E:390:ARG:HH12	1:F:565:GLU:HG3	1.72	0.54
1:O:380:THR:HG21	1:O:392:SER:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:719:GLY:HA2	1:Q:257:TYR:O	2.08	0.54
1:T:707:LYS:HD3	1:U:383:ASN:ND2	2.23	0.54
1:U:380:THR:HG21	1:U:392:SER:O	2.08	0.54
1:X:390:ARG:HH12	1:e:565:GLU:HG3	1.72	0.54
1:a:585:GLN:H	1:8:487:GLN:HE22	1.55	0.54
1:c:390:ARG:HH12	1:p:565:GLU:HG3	1.72	0.54
1:c:565:GLU:HG3	1:o:390:ARG:HH12	1.72	0.54
1:d:380:THR:HG21	1:d:392:SER:O	2.08	0.54
1:f:257:TYR:O	1:z:719:GLY:HA2	2.08	0.54
1:g:707:LYS:HD3	1:1:383:ASN:HD22	1.71	0.54
1:j:225:SER:HG	1:j:318:ASN:H	1.53	0.54
1:j:719:GLY:HA2	1:x:257:TYR:O	2.08	0.54
1:k:380:THR:HG21	1:k:392:SER:O	2.08	0.54
1:l:380:THR:HG21	1:l:392:SER:O	2.08	0.54
1:m:707:LYS:HD3	1:s:383:ASN:ND2	2.23	0.54
1:n:380:THR:HG21	1:n:392:SER:O	2.08	0.54
1:n:655:PRO:HG3	1:r:370:VAL:HG11	1.88	0.54
1:q:390:ARG:HH12	1:s:565:GLU:HG3	1.72	0.54
1:r:611:ASP:OD1	1:r:729:THR:OG1	2.23	0.54
1:H:707:LYS:HD3	1:I:383:ASN:ND2	2.22	0.54
1:J:380:THR:HG21	1:J:392:SER:O	2.08	0.54
1:K:380:THR:HG21	1:K:392:SER:O	2.08	0.54
1:M:383:ASN:ND2	1:c:707:LYS:HD3	2.22	0.54
1:O:257:TYR:O	1:d:719:GLY:HA2	2.08	0.54
1:R:390:ARG:HH12	1:U:565:GLU:HG3	1.72	0.54
1:S:611:ASP:OD1	1:S:729:THR:OG1	2.23	0.54
1:c:655:PRO:HG3	1:s:370:VAL:HG11	1.87	0.54
1:g:719:GLY:HA2	1:1:257:TYR:O	2.08	0.54
1:i:611:ASP:OD1	1:i:729:THR:OG1	2.23	0.54
1:l:257:TYR:O	1:n:719:GLY:HA2	2.08	0.54
1:m:565:GLU:HG3	1:n:390:ARG:HH12	1.72	0.54
1:s:380:THR:HG21	1:s:392:SER:O	2.08	0.54
1:u:383:ASN:ND2	1:5:707:LYS:HD3	2.22	0.54
1:1:257:TYR:OH	1:1:397:GLU:OE1	2.23	0.54
1:2:380:THR:HG21	1:2:392:SER:O	2.08	0.54
1:A:257:TYR:OH	1:A:397:GLU:OE1	2.23	0.54
1:B:257:TYR:O	1:C:719:GLY:HA2	2.08	0.54
1:B:611:ASP:OD1	1:B:729:THR:OG1	2.23	0.54
1:E:380:THR:HG21	1:E:392:SER:O	2.08	0.54
1:I:370:VAL:HG11	1:J:655:PRO:HG3	1.88	0.54
1:T:383:ASN:ND2	1:i:707:LYS:HD3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:565:GLU:HG3	1:d:390:ARG:HH12	1.72	0.54
1:U:707:LYS:HD3	1:e:383:ASN:ND2	2.23	0.54
1:V:383:ASN:ND2	1:W:707:LYS:HD3	2.22	0.54
1:X:257:TYR:O	1:f:719:GLY:HA2	2.08	0.54
1:b:719:GLY:HA2	1:o:257:TYR:O	2.08	0.54
1:c:383:ASN:ND2	1:s:707:LYS:HD3	2.23	0.54
1:c:528:LYS:NZ	1:c:575:GLU:OE2	2.38	0.54
1:f:585:GLN:H	1:h:487:GLN:HE22	1.55	0.54
1:j:383:ASN:ND2	1:l:707:LYS:HD3	2.23	0.54
1:r:380:THR:HG21	1:r:392:SER:O	2.08	0.54
1:t:585:GLN:H	1:u:487:GLN:HE22	1.55	0.54
1:u:565:GLU:HG3	1:v:390:ARG:HH12	1.72	0.54
1:u:585:GLN:H	1:v:487:GLN:HE22	1.55	0.54
1:v:370:VAL:HG11	1:w:655:PRO:HG3	1.88	0.54
1:w:380:THR:HG21	1:w:392:SER:O	2.08	0.54
1:1:611:ASP:OD1	1:1:729:THR:OG1	2.23	0.54
1:A:390:ARG:HH12	1:I:565:GLU:HG3	1.72	0.54
1:D:257:TYR:O	1:E:719:GLY:HA2	2.08	0.54
1:D:487:GLN:HE22	1:P:585:GLN:H	1.55	0.54
1:G:585:GLN:H	1:I:487:GLN:HE22	1.55	0.54
1:I:380:THR:HG21	1:I:392:SER:O	2.08	0.54
1:K:707:LYS:HD3	1:L:383:ASN:ND2	2.23	0.54
1:N:707:LYS:HD3	1:m:383:ASN:ND2	2.23	0.54
1:O:707:LYS:HD3	1:P:383:ASN:ND2	2.23	0.54
1:P:380:THR:HG21	1:P:392:SER:O	2.08	0.54
1:S:380:THR:HG21	1:S:392:SER:O	2.08	0.54
1:a:380:THR:HG21	1:a:392:SER:O	2.08	0.54
1:e:528:LYS:NZ	1:e:575:GLU:OE2	2.38	0.54
1:g:383:ASN:ND2	1:k:707:LYS:HD3	2.22	0.54
1:k:257:TYR:O	1:w:719:GLY:HA2	2.08	0.54
1:z:380:THR:HG21	1:z:392:SER:O	2.08	0.54
1:z:383:ASN:ND2	1:4:707:LYS:HD3	2.23	0.54
1:4:257:TYR:OH	1:4:397:GLU:OE1	2.23	0.54
1:4:380:THR:HG21	1:4:392:SER:O	2.08	0.54
1:5:257:TYR:O	1:8:719:GLY:HA2	2.08	0.54
1:5:383:ASN:ND2	1:8:707:LYS:HD3	2.22	0.54
1:7:380:THR:HG21	1:7:392:SER:O	2.08	0.54
1:A:370:VAL:HG11	1:E:655:PRO:HG3	1.88	0.54
1:A:380:THR:HG21	1:A:392:SER:O	2.08	0.54
1:A:487:GLN:HE22	1:I:585:GLN:H	1.55	0.54
1:C:383:ASN:ND2	1:D:707:LYS:HD3	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:390:ARG:HH12	1:Y:565:GLU:HG3	1.72	0.54
1:K:257:TYR:OH	1:K:397:GLU:OE1	2.23	0.54
1:L:380:THR:HG21	1:L:392:SER:O	2.08	0.54
1:M:398:TYR:OH	1:c:296:ASP:OD2	2.26	0.54
1:O:719:GLY:HA2	1:P:257:TYR:O	2.08	0.54
1:R:585:GLN:H	1:S:487:GLN:HE22	1.55	0.54
1:S:707:LYS:HD3	1:d:383:ASN:ND2	2.23	0.54
1:Y:380:THR:HG21	1:Y:392:SER:O	2.08	0.54
1:Y:707:LYS:HD3	1:4:383:ASN:ND2	2.23	0.54
1:Z:487:GLN:HE22	1:3:585:GLN:H	1.55	0.54
1:a:565:GLU:HG3	1:8:390:ARG:HH12	1.72	0.54
1:j:380:THR:HG21	1:j:392:SER:O	2.08	0.54
1:j:585:GLN:H	1:k:487:GLN:HE22	1.55	0.54
1:n:383:ASN:ND2	1:r:707:LYS:HD3	2.23	0.54
1:p:383:ASN:ND2	1:6:707:LYS:HD3	2.22	0.54
1:q:585:GLN:H	1:r:487:GLN:HE22	1.55	0.54
1:t:707:LYS:HD3	1:6:383:ASN:ND2	2.23	0.54
1:u:380:THR:HG21	1:u:392:SER:O	2.08	0.54
1:v:380:THR:HG21	1:v:392:SER:O	2.08	0.54
1:2:225:SER:HG	1:2:318:ASN:H	1.53	0.54
1:3:380:THR:HG21	1:3:392:SER:O	2.08	0.54
1:A:383:ASN:ND2	1:B:707:LYS:HD3	2.23	0.54
1:G:380:THR:HG21	1:G:392:SER:O	2.08	0.54
1:H:257:TYR:O	1:Z:719:GLY:HA2	2.08	0.54
1:H:383:ASN:ND2	1:Z:707:LYS:HD3	2.23	0.54
1:H:585:GLN:H	1:W:487:GLN:HE22	1.55	0.54
1:J:719:GLY:HA2	1:a:257:TYR:O	2.08	0.54
1:K:383:ASN:ND2	1:7:707:LYS:HD3	2.23	0.54
1:K:719:GLY:HA2	1:L:257:TYR:O	2.08	0.54
1:R:487:GLN:HE22	1:U:585:GLN:H	1.55	0.54
1:S:585:GLN:H	1:U:487:GLN:HE22	1.55	0.54
1:Z:390:ARG:HH12	1:3:565:GLU:HG3	1.72	0.54
1:g:257:TYR:O	1:k:719:GLY:HA2	2.08	0.54
1:j:257:TYR:O	1:l:719:GLY:HA2	2.08	0.54
1:q:487:GLN:HE22	1:s:585:GLN:H	1.55	0.54
1:v:257:TYR:OH	1:v:397:GLU:OE1	2.23	0.54
1:v:383:ASN:ND2	1:1:707:LYS:HD3	2.23	0.54
1:z:257:TYR:O	1:4:719:GLY:HA2	2.08	0.54
1:2:719:GLY:HA2	1:3:257:TYR:O	2.08	0.54
1:5:585:GLN:H	1:6:487:GLN:HE22	1.55	0.54
1:A:257:TYR:O	1:B:719:GLY:HA2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:383:ASN:ND2	1:C:707:LYS:HD3	2.23	0.54
1:C:257:TYR:O	1:D:719:GLY:HA2	2.08	0.54
1:G:707:LYS:HD3	1:W:383:ASN:ND2	2.23	0.54
1:K:585:GLN:H	1:a:487:GLN:HE22	1.55	0.54
1:L:707:LYS:HD3	1:b:383:ASN:ND2	2.23	0.54
1:T:257:TYR:OH	1:T:397:GLU:OE1	2.23	0.54
1:T:719:GLY:HA2	1:U:257:TYR:O	2.08	0.54
1:c:380:THR:HG21	1:c:392:SER:O	2.08	0.54
1:e:380:THR:HG21	1:e:392:SER:O	2.08	0.54
1:e:719:GLY:HA2	1:h:257:TYR:O	2.08	0.54
1:h:719:GLY:HA2	1:i:257:TYR:O	2.08	0.54
1:i:380:THR:HG21	1:i:392:SER:O	2.08	0.54
1:m:257:TYR:OH	1:m:397:GLU:OE1	2.23	0.54
1:m:719:GLY:HA2	1:s:257:TYR:O	2.08	0.54
1:p:257:TYR:O	1:6:719:GLY:HA2	2.08	0.54
1:q:565:GLU:HG3	1:r:390:ARG:HH12	1.72	0.54
1:r:585:GLN:H	1:s:487:GLN:HE22	1.55	0.54
1:t:380:THR:HG21	1:t:392:SER:O	2.08	0.54
1:v:257:TYR:O	1:1:719:GLY:HA2	2.08	0.54
1:5:390:ARG:HH12	1:7:565:GLU:HG3	1.72	0.54
1:B:487:GLN:HE22	1:L:585:GLN:H	1.55	0.53
1:C:487:GLN:HE22	1:M:585:GLN:H	1.55	0.53
1:F:719:GLY:HA2	1:G:257:TYR:O	2.08	0.53
1:H:487:GLN:HE22	1:Y:585:GLN:H	1.55	0.53
1:I:707:LYS:HD3	1:J:383:ASN:ND2	2.23	0.53
1:N:380:THR:HG21	1:N:392:SER:O	2.08	0.53
1:N:719:GLY:HA2	1:m:257:TYR:O	2.08	0.53
1:R:565:GLU:HG3	1:S:390:ARG:HH12	1.72	0.53
1:U:423:SER:HB2	1:U:425:TYR:CE2	2.44	0.53
1:Z:380:THR:HG21	1:Z:392:SER:O	2.08	0.53
1:b:423:SER:HB2	1:b:425:TYR:CE2	2.44	0.53
1:c:257:TYR:O	1:s:719:GLY:HA2	2.08	0.53
1:d:585:GLN:H	1:l:487:GLN:HE22	1.55	0.53
1:e:707:LYS:HD3	1:h:383:ASN:ND2	2.22	0.53
1:f:383:ASN:ND2	1:z:707:LYS:HD3	2.23	0.53
1:f:423:SER:HB2	1:f:425:TYR:CE2	2.44	0.53
1:g:707:LYS:HD3	1:1:383:ASN:ND2	2.23	0.53
1:m:225:SER:HG	1:m:318:ASN:H	1.54	0.53
1:o:611:ASP:OD1	1:o:729:THR:OG1	2.23	0.53
1:t:257:TYR:O	1:y:719:GLY:HA2	2.08	0.53
1:x:423:SER:HB2	1:x:425:TYR:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:487:GLN:HE22	1:4:585:GLN:H	1.55	0.53
1:3:719:GLY:HA2	1:8:257:TYR:O	2.08	0.53
1:5:380:THR:HG21	1:5:392:SER:O	2.08	0.53
1:8:380:THR:HG21	1:8:392:SER:O	2.08	0.53
1:C:390:ARG:HH12	1:M:565:GLU:HG3	1.74	0.53
1:E:225:SER:HG	1:E:318:ASN:H	1.54	0.53
1:F:383:ASN:ND2	1:R:707:LYS:HD3	2.23	0.53
1:F:390:ARG:HH12	1:Q:565:GLU:HG3	1.72	0.53
1:K:257:TYR:O	1:7:719:GLY:HA2	2.08	0.53
1:L:423:SER:HB2	1:L:425:TYR:CE2	2.44	0.53
1:Q:423:SER:HB2	1:Q:425:TYR:CE2	2.44	0.53
1:S:423:SER:HB2	1:S:425:TYR:CE2	2.44	0.53
1:T:257:TYR:O	1:i:719:GLY:HA2	2.08	0.53
1:U:719:GLY:HA2	1:e:257:TYR:O	2.08	0.53
1:V:257:TYR:O	1:W:719:GLY:HA2	2.08	0.53
1:X:383:ASN:ND2	1:f:707:LYS:HD3	2.22	0.53
1:X:611:ASP:OD1	1:X:729:THR:OG1	2.23	0.53
1:X:707:LYS:HD3	1:Y:383:ASN:ND2	2.23	0.53
1:Z:257:TYR:O	1:a:719:GLY:HA2	2.08	0.53
1:Z:565:GLU:HG3	1:4:390:ARG:HH12	1.72	0.53
1:d:423:SER:HB2	1:d:425:TYR:CE2	2.44	0.53
1:h:707:LYS:HD3	1:i:383:ASN:ND2	2.23	0.53
1:n:423:SER:HB2	1:n:425:TYR:CE2	2.44	0.53
1:r:423:SER:HB2	1:r:425:TYR:CE2	2.44	0.53
1:s:423:SER:HB2	1:s:425:TYR:CE2	2.44	0.53
1:u:707:LYS:HD3	1:2:383:ASN:ND2	2.23	0.53
1:v:707:LYS:HD3	1:w:383:ASN:ND2	2.23	0.53
1:v:719:GLY:HA2	1:w:257:TYR:O	2.08	0.53
1:x:565:GLU:HG3	1:y:390:ARG:HH12	1.72	0.53
1:z:257:TYR:OH	1:z:397:GLU:OE1	2.23	0.53
1:z:423:SER:HB2	1:z:425:TYR:CE2	2.44	0.53
1:A:719:GLY:HA2	1:E:257:TYR:O	2.08	0.53
1:E:565:GLU:HG3	1:Q:390:ARG:HH12	1.72	0.53
1:G:565:GLU:HG3	1:I:390:ARG:HH12	1.72	0.53
1:H:380:THR:HG21	1:H:392:SER:O	2.08	0.53
1:H:719:GLY:HA2	1:I:257:TYR:O	2.08	0.53
1:S:565:GLU:HG3	1:U:390:ARG:HH12	1.72	0.53
1:W:611:ASP:OD1	1:W:729:THR:OG1	2.23	0.53
1:X:707:LYS:HD3	1:Y:383:ASN:HD22	1.71	0.53
1:Y:719:GLY:HA2	1:4:257:TYR:O	2.08	0.53
1:b:707:LYS:HD3	1:o:383:ASN:ND2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:423:SER:HB2	1:h:425:TYR:CE2	2.44	0.53
1:j:707:LYS:HD3	1:x:383:ASN:ND2	2.22	0.53
1:o:707:LYS:HD3	1:7:383:ASN:ND2	2.23	0.53
1:o:707:LYS:HD3	1:7:383:ASN:HD22	1.71	0.53
1:r:383:ASN:ND2	1:x:707:LYS:HD3	2.23	0.53
1:w:565:GLU:HG3	1:x:390:ARG:HH12	1.72	0.53
1:x:380:THR:HG21	1:x:392:SER:O	2.08	0.53
1:z:585:GLN:H	1:1:487:GLN:HE22	1.55	0.53
1:6:611:ASP:OD1	1:6:729:THR:OG1	2.23	0.53
1:A:707:LYS:HD3	1:E:383:ASN:ND2	2.23	0.53
1:B:585:GLN:H	1:J:487:GLN:HE22	1.55	0.53
1:C:585:GLN:H	1:b:487:GLN:HE22	1.55	0.53
1:D:423:SER:HB2	1:D:425:TYR:CE2	2.44	0.53
1:F:257:TYR:O	1:R:719:GLY:HA2	2.08	0.53
1:I:423:SER:HB2	1:I:425:TYR:CE2	2.44	0.53
1:K:390:ARG:HH12	1:8:565:GLU:HG3	1.72	0.53
1:K:565:GLU:HG3	1:a:390:ARG:HH12	1.72	0.53
1:L:257:TYR:OH	1:L:397:GLU:OE1	2.23	0.53
1:O:487:GLN:HE22	1:n:585:GLN:H	1.55	0.53
1:P:707:LYS:HD3	1:Q:383:ASN:ND2	2.22	0.53
1:Q:707:LYS:HD3	1:S:383:ASN:ND2	2.23	0.53
1:V:423:SER:HB2	1:V:425:TYR:CE2	2.44	0.53
1:V:487:GLN:HE22	1:X:585:GLN:H	1.55	0.53
1:X:423:SER:HB2	1:X:425:TYR:CE2	2.44	0.53
1:f:487:GLN:HE22	1:g:585:GLN:H	1.55	0.53
1:h:611:ASP:OD1	1:h:729:THR:OG1	2.23	0.53
1:k:611:ASP:OD1	1:k:729:THR:OG1	2.23	0.53
1:l:423:SER:HB2	1:l:425:TYR:CE2	2.44	0.53
1:p:423:SER:HB2	1:p:425:TYR:CE2	2.44	0.53
1:q:707:LYS:HD3	1:y:383:ASN:ND2	2.23	0.53
1:q:719:GLY:HA2	1:y:257:TYR:O	2.08	0.53
1:r:565:GLU:HG3	1:s:390:ARG:HH12	1.72	0.53
1:t:565:GLU:HG3	1:u:390:ARG:HH12	1.72	0.53
1:u:423:SER:HB2	1:u:425:TYR:CE2	2.44	0.53
1:w:225:SER:HG	1:w:318:ASN:H	1.54	0.53
1:x:585:GLN:H	1:y:487:GLN:HE22	1.55	0.53
1:1:585:GLN:H	1:2:487:GLN:HE22	1.55	0.53
1:2:707:LYS:HD3	1:3:383:ASN:ND2	2.23	0.53
1:3:390:ARG:HH12	1:4:565:GLU:HG3	1.72	0.53
1:5:487:GLN:HE22	1:7:585:GLN:H	1.55	0.53
1:D:611:ASP:OD1	1:D:729:THR:OG1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:487:GLN:HE22	1:Q:585:GLN:H	1.55	0.53
1:J:707:LYS:HD3	1:a:383:ASN:ND2	2.23	0.53
1:L:628:HIS:HE1	1:L:641:LYS:NZ	2.07	0.53
1:M:423:SER:HB2	1:M:425:TYR:CE2	2.44	0.53
1:O:423:SER:HB2	1:O:425:TYR:CE2	2.44	0.53
1:Q:380:THR:HG21	1:Q:392:SER:O	2.08	0.53
1:S:719:GLY:HA2	1:d:257:TYR:O	2.08	0.53
1:T:423:SER:HB2	1:T:425:TYR:CE2	2.44	0.53
1:X:380:THR:HG21	1:X:392:SER:O	2.08	0.53
1:X:398:TYR:OH	1:f:296:ASP:OD2	2.27	0.53
1:b:296:ASP:OD2	1:o:398:TYR:OH	2.27	0.53
1:b:628:HIS:HE1	1:b:641:LYS:HZ3	1.57	0.53
1:k:423:SER:HB2	1:k:425:TYR:CE2	2.44	0.53
1:o:423:SER:HB2	1:o:425:TYR:CE2	2.44	0.53
1:u:257:TYR:O	1:5:719:GLY:HA2	2.08	0.53
1:v:611:ASP:OD1	1:v:729:THR:OG1	2.23	0.53
1:z:628:HIS:HE1	1:z:641:LYS:NZ	2.07	0.53
1:5:611:ASP:OD1	1:5:729:THR:OG1	2.23	0.53
1:J:423:SER:HB2	1:J:425:TYR:CE2	2.44	0.53
1:M:719:GLY:HA2	1:N:257:TYR:O	2.09	0.53
1:Y:423:SER:HB2	1:Y:425:TYR:CE2	2.44	0.53
1:d:628:HIS:HE1	1:d:641:LYS:NZ	2.07	0.53
1:i:487:GLN:HE22	1:k:585:GLN:H	1.55	0.53
1:i:628:HIS:HE1	1:i:641:LYS:NZ	2.07	0.53
1:m:423:SER:HB2	1:m:425:TYR:CE2	2.44	0.53
1:n:257:TYR:O	1:r:719:GLY:HA2	2.08	0.53
1:t:423:SER:HB2	1:t:425:TYR:CE2	2.44	0.53
1:u:628:HIS:HE1	1:u:641:LYS:NZ	2.07	0.53
1:u:719:GLY:HA2	1:2:257:TYR:O	2.08	0.53
1:7:423:SER:HB2	1:7:425:TYR:CE2	2.44	0.53
1:B:380:THR:HG21	1:B:392:SER:O	2.08	0.53
1:D:585:GLN:H	1:N:487:GLN:HE22	1.55	0.53
1:F:707:LYS:HD3	1:G:383:ASN:ND2	2.23	0.53
1:G:423:SER:HB2	1:G:425:TYR:CE2	2.44	0.53
1:I:628:HIS:HE1	1:I:641:LYS:NZ	2.07	0.53
1:M:611:ASP:OD1	1:M:729:THR:OG1	2.23	0.53
1:N:628:HIS:HE1	1:N:641:LYS:NZ	2.07	0.53
1:O:383:ASN:ND2	1:d:707:LYS:HD3	2.23	0.53
1:Q:427:HIS:HE1	1:Q:608:GLN:NE2	2.07	0.53
1:R:423:SER:HB2	1:R:425:TYR:CE2	2.44	0.53
1:R:628:HIS:HE1	1:R:641:LYS:NZ	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:427:HIS:HE1	1:V:608:GLN:NE2	2.07	0.53
1:W:380:THR:HG21	1:W:392:SER:O	2.08	0.53
1:W:585:GLN:H	1:Y:487:GLN:HE22	1.55	0.53
1:Y:628:HIS:HE1	1:Y:641:LYS:NZ	2.07	0.53
1:Z:423:SER:HB2	1:Z:425:TYR:CE2	2.44	0.53
1:a:427:HIS:HE1	1:a:608:GLN:NE2	2.07	0.53
1:d:611:ASP:OD1	1:d:729:THR:OG1	2.23	0.53
1:e:423:SER:HB2	1:e:425:TYR:CE2	2.44	0.53
1:n:628:HIS:HE1	1:n:641:LYS:NZ	2.07	0.53
1:o:380:THR:HG21	1:o:392:SER:O	2.08	0.53
1:o:585:GLN:H	1:p:487:GLN:HE22	1.55	0.53
1:p:380:THR:HG21	1:p:392:SER:O	2.08	0.53
1:p:427:HIS:HE1	1:p:608:GLN:NE2	2.07	0.53
1:q:423:SER:HB2	1:q:425:TYR:CE2	2.44	0.53
1:q:628:HIS:HE1	1:q:641:LYS:NZ	2.07	0.53
1:w:423:SER:HB2	1:w:425:TYR:CE2	2.44	0.53
1:x:427:HIS:HE1	1:x:608:GLN:NE2	2.07	0.53
1:1:380:THR:HG21	1:1:392:SER:O	2.08	0.53
1:2:423:SER:HB2	1:2:425:TYR:CE2	2.44	0.53
1:8:423:SER:HB2	1:8:425:TYR:CE2	2.44	0.53
1:A:611:ASP:OD1	1:A:729:THR:OG1	2.23	0.53
1:B:427:HIS:HE1	1:B:608:GLN:NE2	2.07	0.53
1:D:398:TYR:OH	1:E:296:ASP:OD2	2.27	0.53
1:E:423:SER:HB2	1:E:425:TYR:CE2	2.44	0.53
1:E:628:HIS:HE1	1:E:641:LYS:NZ	2.07	0.53
1:G:628:HIS:HE1	1:G:641:LYS:NZ	2.07	0.53
1:H:423:SER:HB2	1:H:425:TYR:CE2	2.44	0.53
1:H:611:ASP:OD1	1:H:729:THR:OG1	2.23	0.53
1:I:719:GLY:HA2	1:J:257:TYR:O	2.08	0.53
1:T:585:GLN:H	1:d:487:GLN:HE22	1.55	0.53
1:c:423:SER:HB2	1:c:425:TYR:CE2	2.44	0.53
1:l:383:ASN:ND2	1:n:707:LYS:HD3	2.23	0.53
1:m:628:HIS:HE1	1:m:641:LYS:NZ	2.07	0.53
1:t:628:HIS:HE1	1:t:641:LYS:NZ	2.07	0.53
1:w:628:HIS:HE1	1:w:641:LYS:NZ	2.07	0.53
1:1:427:HIS:HE1	1:1:608:GLN:NE2	2.07	0.53
1:7:427:HIS:HE1	1:7:608:GLN:NE2	2.07	0.53
1:7:628:HIS:HE1	1:7:641:LYS:NZ	2.07	0.53
1:F:296:ASP:OD2	1:G:398:TYR:OH	2.27	0.53
1:F:380:THR:HG21	1:F:392:SER:O	2.08	0.53
1:F:423:SER:HB2	1:F:425:TYR:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:427:HIS:HE1	1:O:608:GLN:NE2	2.07	0.53
1:R:383:ASN:ND2	1:V:707:LYS:HD3	2.23	0.53
1:R:427:HIS:HE1	1:R:608:GLN:NE2	2.07	0.53
1:T:628:HIS:HE1	1:T:641:LYS:NZ	2.07	0.53
1:U:427:HIS:HE1	1:U:608:GLN:NE2	2.07	0.53
1:V:380:THR:HG21	1:V:392:SER:O	2.08	0.53
1:X:427:HIS:HE1	1:X:608:GLN:NE2	2.07	0.53
1:Y:427:HIS:HE1	1:Y:608:GLN:NE2	2.07	0.53
1:e:225:SER:HG	1:e:318:ASN:H	1.53	0.53
1:j:611:ASP:OD1	1:j:729:THR:OG1	2.23	0.53
1:k:398:TYR:OH	1:w:296:ASP:OD2	2.27	0.53
1:l:427:HIS:HE1	1:l:608:GLN:NE2	2.07	0.53
1:m:585:GLN:H	1:n:487:GLN:HE22	1.55	0.53
1:n:611:ASP:OD1	1:n:729:THR:OG1	2.23	0.53
1:o:427:HIS:HE1	1:o:608:GLN:NE2	2.07	0.53
1:p:707:LYS:HD3	1:q:383:ASN:ND2	2.23	0.53
1:q:427:HIS:HE1	1:q:608:GLN:NE2	2.07	0.53
1:s:427:HIS:HE1	1:s:608:GLN:NE2	2.07	0.53
1:t:383:ASN:ND2	1:y:707:LYS:HD3	2.23	0.53
1:t:398:TYR:OH	1:y:296:ASP:OD2	2.27	0.53
1:t:427:HIS:HE1	1:t:608:GLN:NE2	2.07	0.53
1:3:427:HIS:HE1	1:3:608:GLN:NE2	2.07	0.53
1:5:423:SER:HB2	1:5:425:TYR:CE2	2.44	0.53
1:6:380:THR:HG21	1:6:392:SER:O	2.08	0.53
1:6:427:HIS:HE1	1:6:608:GLN:NE2	2.07	0.53
1:6:585:GLN:H	1:7:487:GLN:HE22	1.55	0.53
1:A:628:HIS:HE1	1:A:641:LYS:NZ	2.07	0.53
1:C:427:HIS:HE1	1:C:608:GLN:NE2	2.07	0.53
1:D:427:HIS:HE1	1:D:608:GLN:NE2	2.07	0.53
1:G:427:HIS:HE1	1:G:608:GLN:NE2	2.07	0.53
1:J:628:HIS:HE1	1:J:641:LYS:NZ	2.07	0.53
1:M:487:GLN:HE22	1:b:585:GLN:H	1.56	0.53
1:M:707:LYS:HD3	1:N:383:ASN:ND2	2.24	0.53
1:N:423:SER:HB2	1:N:425:TYR:CE2	2.44	0.53
1:U:257:TYR:OH	1:U:397:GLU:OE1	2.23	0.53
1:W:427:HIS:HE1	1:W:608:GLN:NE2	2.07	0.53
1:g:423:SER:HB2	1:g:425:TYR:CE2	2.44	0.53
1:i:423:SER:HB2	1:i:425:TYR:CE2	2.44	0.53
1:l:398:TYR:OH	1:n:296:ASP:OD2	2.27	0.53
1:r:257:TYR:O	1:x:719:GLY:HA2	2.08	0.53
1:s:257:TYR:OH	1:s:397:GLU:OE1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:423:SER:HB2	1:y:425:TYR:CE2	2.44	0.53
1:y:427:HIS:HE1	1:y:608:GLN:NE2	2.07	0.53
1:2:296:ASP:OD2	1:3:398:TYR:OH	2.27	0.53
1:A:398:TYR:OH	1:B:296:ASP:OD2	2.27	0.52
1:C:423:SER:HB2	1:C:425:TYR:CE2	2.44	0.52
1:F:427:HIS:HE1	1:F:608:GLN:NE2	2.07	0.52
1:H:628:HIS:HE1	1:H:641:LYS:NZ	2.07	0.52
1:J:296:ASP:OD2	1:a:398:TYR:OH	2.27	0.52
1:L:296:ASP:OD2	1:b:398:TYR:OH	2.27	0.52
1:N:585:GLN:H	1:P:487:GLN:HE22	1.55	0.52
1:O:398:TYR:OH	1:d:296:ASP:OD2	2.27	0.52
1:Q:719:GLY:HA2	1:S:257:TYR:O	2.08	0.52
1:R:380:THR:HG21	1:R:392:SER:O	2.08	0.52
1:e:296:ASP:OD2	1:h:398:TYR:OH	2.27	0.52
1:f:398:TYR:OH	1:z:296:ASP:OD2	2.27	0.52
1:g:427:HIS:HE1	1:g:608:GLN:NE2	2.07	0.52
1:g:487:GLN:HE22	1:h:585:GLN:H	1.55	0.52
1:p:296:ASP:OD2	1:q:398:TYR:OH	2.27	0.52
1:v:398:TYR:OH	1:l:296:ASP:OD2	2.27	0.52
1:v:628:HIS:HE1	1:v:641:LYS:NZ	2.07	0.52
1:y:380:THR:HG21	1:y:392:SER:O	2.08	0.52
1:l:628:HIS:HE1	1:l:641:LYS:NZ	2.07	0.52
1:B:354:VAL:H	1:B:646:GLN:HE22	1.58	0.52
1:B:628:HIS:HE1	1:B:641:LYS:NZ	2.07	0.52
1:J:257:TYR:OH	1:J:397:GLU:OE1	2.23	0.52
1:L:354:VAL:H	1:L:646:GLN:HE22	1.58	0.52
1:M:380:THR:HG21	1:M:392:SER:O	2.08	0.52
1:P:611:ASP:OD1	1:P:729:THR:OG1	2.23	0.52
1:R:398:TYR:OH	1:V:296:ASP:OD2	2.27	0.52
1:V:628:HIS:HE1	1:V:641:LYS:NZ	2.07	0.52
1:i:585:GLN:H	1:j:487:GLN:HE22	1.55	0.52
1:j:427:HIS:HE1	1:j:608:GLN:NE2	2.07	0.52
1:k:427:HIS:HE1	1:k:608:GLN:NE2	2.07	0.52
1:q:380:THR:HG21	1:q:392:SER:O	2.08	0.52
1:2:628:HIS:HE1	1:2:641:LYS:NZ	2.07	0.52
1:5:628:HIS:HE1	1:5:641:LYS:NZ	2.07	0.52
1:N:427:HIS:HE1	1:N:608:GLN:NE2	2.07	0.52
1:P:427:HIS:HE1	1:P:608:GLN:NE2	2.07	0.52
1:R:257:TYR:O	1:V:719:GLY:HA2	2.08	0.52
1:U:628:HIS:HE1	1:U:641:LYS:NZ	2.07	0.52
1:W:423:SER:HB2	1:W:425:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:296:ASP:OD2	1:Y:398:TYR:OH	2.27	0.52
1:X:628:HIS:HE1	1:X:641:LYS:NZ	2.07	0.52
1:b:427:HIS:HE1	1:b:608:GLN:NE2	2.07	0.52
1:h:380:THR:HG21	1:h:392:SER:O	2.08	0.52
1:h:628:HIS:HE1	1:h:641:LYS:NZ	2.07	0.52
1:j:423:SER:HB2	1:j:425:TYR:CE2	2.44	0.52
1:l:611:ASP:OD1	1:l:729:THR:OG1	2.23	0.52
1:o:296:ASP:OD2	1:7:398:TYR:OH	2.27	0.52
1:p:628:HIS:HE1	1:p:641:LYS:NZ	2.07	0.52
1:y:628:HIS:HE1	1:y:641:LYS:NZ	2.07	0.52
1:1:354:VAL:H	1:1:646:GLN:HE22	1.58	0.52
1:2:257:TYR:OH	1:2:397:GLU:OE1	2.23	0.52
1:B:398:TYR:OH	1:C:296:ASP:OD2	2.27	0.52
1:D:354:VAL:H	1:D:646:GLN:HE22	1.58	0.52
1:D:628:HIS:HE1	1:D:641:LYS:NZ	2.07	0.52
1:F:628:HIS:HE1	1:F:641:LYS:NZ	2.07	0.52
1:I:427:HIS:HE1	1:I:608:GLN:NE2	2.07	0.52
1:K:628:HIS:HE1	1:K:641:LYS:NZ	2.07	0.52
1:M:628:HIS:HE1	1:M:641:LYS:NZ	2.07	0.52
1:P:423:SER:HB2	1:P:425:TYR:CE2	2.44	0.52
1:X:719:GLY:HA2	1:Y:257:TYR:O	2.08	0.52
1:f:427:HIS:HE1	1:f:608:GLN:NE2	2.07	0.52
1:i:427:HIS:HE1	1:i:608:GLN:NE2	2.07	0.52
1:k:628:HIS:HE1	1:k:641:LYS:NZ	2.07	0.52
1:o:628:HIS:HE1	1:o:641:LYS:NZ	2.07	0.52
1:p:719:GLY:HA2	1:q:257:TYR:O	2.08	0.52
1:q:296:ASP:OD2	1:y:398:TYR:OH	2.27	0.52
1:s:628:HIS:HE1	1:s:641:LYS:NZ	2.07	0.52
1:u:427:HIS:HE1	1:u:608:GLN:NE2	2.07	0.52
1:4:423:SER:HB2	1:4:425:TYR:CE2	2.44	0.52
1:B:423:SER:HB2	1:B:425:TYR:CE2	2.44	0.52
1:F:398:TYR:OH	1:R:296:ASP:OD2	2.27	0.52
1:I:296:ASP:OD2	1:J:398:TYR:OH	2.27	0.52
1:K:423:SER:HB2	1:K:425:TYR:CE2	2.44	0.52
1:M:225:SER:HG	1:M:318:ASN:H	1.54	0.52
1:a:423:SER:HB2	1:a:425:TYR:CE2	2.44	0.52
1:h:528:LYS:NZ	1:h:575:GLU:OE2	2.38	0.52
1:m:427:HIS:HE1	1:m:608:GLN:NE2	2.07	0.52
1:n:427:HIS:HE1	1:n:608:GLN:NE2	2.07	0.52
1:o:719:GLY:HA2	1:7:257:TYR:O	2.08	0.52
1:3:423:SER:HB2	1:3:425:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:423:SER:HB2	1:6:425:TYR:CE2	2.44	0.52
1:A:423:SER:HB2	1:A:425:TYR:CE2	2.44	0.52
1:C:398:TYR:OH	1:D:296:ASP:OD2	2.27	0.52
1:H:398:TYR:OH	1:Z:296:ASP:OD2	2.27	0.52
1:H:427:HIS:HE1	1:H:608:GLN:NE2	2.07	0.52
1:O:611:ASP:OD1	1:O:729:THR:OG1	2.23	0.52
1:O:628:HIS:HE1	1:O:641:LYS:NZ	2.07	0.52
1:T:427:HIS:HE1	1:T:608:GLN:NE2	2.07	0.52
1:Z:628:HIS:HE1	1:Z:641:LYS:NZ	2.07	0.52
1:c:354:VAL:H	1:c:646:GLN:HE22	1.58	0.52
1:d:427:HIS:HE1	1:d:608:GLN:NE2	2.07	0.52
1:e:354:VAL:H	1:e:646:GLN:HE22	1.58	0.52
1:f:257:TYR:OH	1:f:397:GLU:OE1	2.23	0.52
1:g:296:ASP:OD2	1:1:398:TYR:OH	2.27	0.52
1:j:398:TYR:OH	1:l:296:ASP:OD2	2.27	0.52
1:k:354:VAL:H	1:k:646:GLN:HE22	1.58	0.52
1:m:296:ASP:OD2	1:s:398:TYR:OH	2.27	0.52
1:u:296:ASP:OD2	1:2:398:TYR:OH	2.27	0.52
1:1:423:SER:HB2	1:1:425:TYR:CE2	2.44	0.52
1:4:427:HIS:HE1	1:4:608:GLN:NE2	2.07	0.52
1:4:628:HIS:HE1	1:4:641:LYS:NZ	2.07	0.52
1:5:427:HIS:HE1	1:5:608:GLN:NE2	2.07	0.52
1:K:427:HIS:HE1	1:K:608:GLN:NE2	2.07	0.52
1:M:528:LYS:NZ	1:M:575:GLU:OE2	2.38	0.52
1:N:296:ASP:OD2	1:m:398:TYR:OH	2.27	0.52
1:O:354:VAL:H	1:O:646:GLN:HE22	1.58	0.52
1:P:628:HIS:HE1	1:P:641:LYS:NZ	2.07	0.52
1:Z:427:HIS:HE1	1:Z:608:GLN:NE2	2.07	0.52
1:b:257:TYR:OH	1:b:397:GLU:OE1	2.23	0.52
1:g:398:TYR:OH	1:k:296:ASP:OD2	2.27	0.52
1:j:628:HIS:HE1	1:j:641:LYS:NZ	2.07	0.52
1:l:628:HIS:HE1	1:l:641:LYS:NZ	2.07	0.52
1:x:628:HIS:HE1	1:x:641:LYS:NZ	2.07	0.52
1:5:398:TYR:OH	1:8:296:ASP:OD2	2.27	0.52
1:G:296:ASP:OD2	1:W:398:TYR:OH	2.27	0.52
1:H:296:ASP:OD2	1:I:398:TYR:OH	2.27	0.52
1:O:296:ASP:OD2	1:P:398:TYR:OH	2.27	0.52
1:P:296:ASP:OD2	1:Q:398:TYR:OH	2.27	0.52
1:Q:628:HIS:HE1	1:Q:641:LYS:NZ	2.07	0.52
1:T:296:ASP:OD2	1:U:398:TYR:OH	2.27	0.52
1:W:354:VAL:H	1:W:646:GLN:HE22	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:628:HIS:HE1	1:W:641:LYS:NZ	2.07	0.52
1:Z:354:VAL:H	1:Z:646:GLN:HE22	1.58	0.52
1:b:628:HIS:HE1	1:b:641:LYS:NZ	2.07	0.52
1:c:628:HIS:HE1	1:c:641:LYS:NZ	2.07	0.52
1:f:628:HIS:HE1	1:f:641:LYS:NZ	2.07	0.52
1:h:427:HIS:HE1	1:h:608:GLN:NE2	2.07	0.52
1:l:354:VAL:H	1:l:646:GLN:HE22	1.58	0.52
1:v:296:ASP:OD2	1:w:398:TYR:OH	2.27	0.52
1:v:423:SER:HB2	1:v:425:TYR:CE2	2.44	0.52
1:6:354:VAL:H	1:6:646:GLN:HE22	1.58	0.52
1:6:628:HIS:HE1	1:6:641:LYS:NZ	2.07	0.52
1:8:427:HIS:HE1	1:8:608:GLN:NE2	2.07	0.52
1:8:628:HIS:HE1	1:8:641:LYS:NZ	2.07	0.52
1:A:296:ASP:OD2	1:E:398:TYR:OH	2.27	0.52
1:E:427:HIS:HE1	1:E:608:GLN:NE2	2.07	0.52
1:L:427:HIS:HE1	1:L:608:GLN:NE2	2.07	0.52
1:Q:296:ASP:OD2	1:S:398:TYR:OH	2.27	0.52
1:T:398:TYR:OH	1:i:296:ASP:OD2	2.27	0.52
1:a:628:HIS:HE1	1:a:641:LYS:NZ	2.07	0.52
1:p:398:TYR:OH	1:6:296:ASP:OD2	2.27	0.52
1:r:398:TYR:OH	1:x:296:ASP:OD2	2.27	0.52
1:r:427:HIS:HE1	1:r:608:GLN:NE2	2.07	0.52
1:u:398:TYR:OH	1:5:296:ASP:OD2	2.27	0.52
1:8:354:VAL:H	1:8:646:GLN:HE22	1.58	0.52
1:M:427:HIS:HE1	1:M:608:GLN:NE2	2.07	0.52
1:S:427:HIS:HE1	1:S:608:GLN:NE2	2.07	0.52
1:V:398:TYR:OH	1:W:296:ASP:OD2	2.27	0.52
1:Z:628:HIS:HE1	1:Z:641:LYS:HZ3	1.58	0.52
1:e:628:HIS:HE1	1:e:641:LYS:NZ	2.07	0.52
1:j:296:ASP:OD2	1:x:398:TYR:OH	2.27	0.52
1:t:296:ASP:OD2	1:6:398:TYR:OH	2.27	0.52
1:w:427:HIS:HE1	1:w:608:GLN:NE2	2.07	0.52
1:z:427:HIS:HE1	1:z:608:GLN:NE2	2.07	0.52
1:3:296:ASP:OD2	1:8:398:TYR:OH	2.27	0.52
1:4:435:MET:SD	1:4:471:MET:HG2	2.50	0.52
1:8:628:HIS:HE1	1:8:641:LYS:HZ3	1.58	0.52
1:A:427:HIS:HE1	1:A:608:GLN:NE2	2.07	0.51
1:K:435:MET:SD	1:K:471:MET:HG2	2.50	0.51
1:M:296:ASP:OD2	1:N:398:TYR:OH	2.27	0.51
1:M:552:ASN:ND2	1:b:447:ASN:HD22	2.07	0.51
1:Q:611:ASP:OD1	1:Q:729:THR:OG1	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:628:HIS:HE1	1:S:641:LYS:NZ	2.07	0.51
1:W:435:MET:SD	1:W:471:MET:HG2	2.50	0.51
1:W:528:LYS:NZ	1:W:575:GLU:OE2	2.38	0.51
1:c:427:HIS:HE1	1:c:608:GLN:NE2	2.07	0.51
1:p:257:TYR:OH	1:p:397:GLU:OE1	2.23	0.51
1:v:427:HIS:HE1	1:v:608:GLN:NE2	2.07	0.51
1:x:611:ASP:OD1	1:x:729:THR:OG1	2.23	0.51
1:z:435:MET:SD	1:z:471:MET:HG2	2.50	0.51
1:2:427:HIS:HE1	1:2:608:GLN:NE2	2.07	0.51
1:3:628:HIS:HE1	1:3:641:LYS:NZ	2.07	0.51
1:6:435:MET:SD	1:6:471:MET:HG2	2.50	0.51
1:B:435:MET:SD	1:B:471:MET:HG2	2.51	0.51
1:C:628:HIS:HE1	1:C:641:LYS:NZ	2.07	0.51
1:K:398:TYR:OH	1:7:296:ASP:OD2	2.27	0.51
1:L:435:MET:SD	1:L:471:MET:HG2	2.51	0.51
1:R:435:MET:SD	1:R:471:MET:HG2	2.51	0.51
1:Z:398:TYR:OH	1:a:296:ASP:OD2	2.27	0.51
1:d:528:LYS:NZ	1:d:575:GLU:OE2	2.38	0.51
1:e:427:HIS:HE1	1:e:608:GLN:NE2	2.07	0.51
1:g:628:HIS:HE1	1:g:641:LYS:NZ	2.07	0.51
1:n:398:TYR:OH	1:r:296:ASP:OD2	2.27	0.51
1:p:435:MET:SD	1:p:471:MET:HG2	2.51	0.51
1:q:435:MET:SD	1:q:471:MET:HG2	2.51	0.51
1:r:628:HIS:HE1	1:r:641:LYS:NZ	2.07	0.51
1:1:435:MET:SD	1:1:471:MET:HG2	2.51	0.51
1:J:427:HIS:HE1	1:J:608:GLN:NE2	2.07	0.51
1:M:435:MET:SD	1:M:471:MET:HG2	2.51	0.51
1:O:435:MET:SD	1:O:471:MET:HG2	2.50	0.51
1:Q:257:TYR:OH	1:Q:397:GLU:OE1	2.23	0.51
1:R:528:LYS:NZ	1:R:575:GLU:OE2	2.38	0.51
1:S:296:ASP:OD2	1:d:398:TYR:OH	2.27	0.51
1:V:435:MET:SD	1:V:471:MET:HG2	2.51	0.51
1:c:435:MET:SD	1:c:471:MET:HG2	2.50	0.51
1:e:435:MET:SD	1:e:471:MET:HG2	2.50	0.51
1:r:435:MET:SD	1:r:471:MET:HG2	2.50	0.51
1:E:352:PRO:HB3	1:F:429:GLN:HE22	1.76	0.51
1:F:354:VAL:H	1:F:646:GLN:HE22	1.58	0.51
1:K:429:GLN:HE22	1:a:352:PRO:HB3	1.76	0.51
1:S:435:MET:SD	1:S:471:MET:HG2	2.50	0.51
1:U:296:ASP:OD2	1:e:398:TYR:OH	2.27	0.51
1:Y:296:ASP:OD2	1:4:398:TYR:OH	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:435:MET:SD	1:l:471:MET:HG2	2.50	0.51
1:r:354:VAL:H	1:r:646:GLN:HE22	1.58	0.51
1:w:352:PRO:HB3	1:y:429:GLN:HE22	1.76	0.51
1:8:435:MET:SD	1:8:471:MET:HG2	2.50	0.51
1:O:552:ASN:ND2	1:n:447:ASN:HD22	2.09	0.51
1:P:354:VAL:H	1:P:646:GLN:HE22	1.58	0.51
1:P:435:MET:SD	1:P:471:MET:HG2	2.50	0.51
1:Q:435:MET:SD	1:Q:471:MET:HG2	2.50	0.51
1:V:257:TYR:OH	1:V:397:GLU:OE1	2.23	0.51
1:Z:435:MET:SD	1:Z:471:MET:HG2	2.50	0.51
1:c:398:TYR:OH	1:s:296:ASP:OD2	2.27	0.51
1:d:447:ASN:HD22	1:l:552:ASN:ND2	2.09	0.51
1:g:552:ASN:ND2	1:h:447:ASN:HD22	2.09	0.51
1:h:435:MET:SD	1:h:471:MET:HG2	2.51	0.51
1:j:435:MET:SD	1:j:471:MET:HG2	2.50	0.51
1:x:257:TYR:OH	1:x:397:GLU:OE1	2.23	0.51
1:3:352:PRO:HB3	1:4:429:GLN:HE22	1.76	0.51
1:4:354:VAL:H	1:4:646:GLN:HE22	1.57	0.51
1:4:611:ASP:OD1	1:4:729:THR:OG1	2.23	0.51
1:6:528:LYS:NZ	1:6:575:GLU:OE2	2.38	0.51
1:C:435:MET:SD	1:C:471:MET:HG2	2.50	0.51
1:C:497:ASN:ND2	1:M:590:ASP:OD1	2.42	0.51
1:K:354:VAL:H	1:K:646:GLN:HE22	1.58	0.51
1:S:354:VAL:H	1:S:646:GLN:HE22	1.58	0.51
1:T:435:MET:SD	1:T:471:MET:HG2	2.50	0.51
1:Y:435:MET:SD	1:Y:471:MET:HG2	2.50	0.51
1:f:429:GLN:HE22	1:h:352:PRO:HB3	1.76	0.51
1:h:296:ASP:OD2	1:i:398:TYR:OH	2.27	0.51
1:m:435:MET:SD	1:m:471:MET:HG2	2.50	0.51
1:q:528:LYS:NZ	1:q:575:GLU:OE2	2.38	0.51
1:x:435:MET:SD	1:x:471:MET:HG2	2.50	0.51
1:y:354:VAL:H	1:y:646:GLN:HE22	1.58	0.51
1:z:552:ASN:ND2	1:2:447:ASN:HD22	2.09	0.51
1:7:435:MET:SD	1:7:471:MET:HG2	2.50	0.51
1:C:552:ASN:ND2	1:M:447:ASN:HD22	2.09	0.51
1:D:435:MET:SD	1:D:471:MET:HG2	2.50	0.51
1:G:447:ASN:HD22	1:I:552:ASN:ND2	2.09	0.51
1:G:714:THR:HG22	1:G:715:VAL:N	2.26	0.51
1:H:352:PRO:HB3	1:Y:429:GLN:HE22	1.76	0.51
1:H:435:MET:SD	1:H:471:MET:HG2	2.50	0.51
1:J:447:ASN:HD22	1:L:552:ASN:ND2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:354:VAL:H	1:M:646:GLN:HE22	1.57	0.51
1:Q:714:THR:HG22	1:Q:715:VAL:N	2.26	0.51
1:R:714:THR:HG22	1:R:715:VAL:N	2.26	0.51
1:S:429:GLN:HE22	1:U:352:PRO:HB3	1.76	0.51
1:T:714:THR:HG22	1:T:715:VAL:N	2.26	0.51
1:V:552:ASN:ND2	1:X:447:ASN:HD22	2.09	0.51
1:X:352:PRO:HB3	1:e:429:GLN:HE22	1.76	0.51
1:b:435:MET:SD	1:b:471:MET:HG2	2.50	0.51
1:c:429:GLN:HE22	1:o:352:PRO:HB3	1.76	0.51
1:f:435:MET:SD	1:f:471:MET:HG2	2.50	0.51
1:j:354:VAL:H	1:j:646:GLN:HE22	1.58	0.51
1:k:435:MET:SD	1:k:471:MET:HG2	2.50	0.51
1:q:714:THR:HG22	1:q:715:VAL:N	2.26	0.51
1:r:528:LYS:NZ	1:r:575:GLU:OE2	2.38	0.51
1:t:447:ASN:HD22	1:u:552:ASN:ND2	2.09	0.51
1:t:714:THR:HG22	1:t:715:VAL:N	2.26	0.51
1:w:552:ASN:ND2	1:y:447:ASN:HD22	2.09	0.51
1:x:714:THR:HG22	1:x:715:VAL:N	2.26	0.51
1:z:398:TYR:OH	1:4:296:ASP:OD2	2.27	0.51
1:4:528:LYS:NZ	1:4:575:GLU:OE2	2.38	0.51
1:5:352:PRO:HB3	1:7:429:GLN:HE22	1.76	0.51
1:5:435:MET:SD	1:5:471:MET:HG2	2.50	0.51
1:A:435:MET:SD	1:A:471:MET:HG2	2.51	0.51
1:E:552:ASN:ND2	1:F:447:ASN:HD22	2.09	0.51
1:J:435:MET:SD	1:J:471:MET:HG2	2.50	0.51
1:S:714:THR:HG22	1:S:715:VAL:N	2.26	0.51
1:X:497:ASN:ND2	1:e:590:ASP:OD1	2.43	0.51
1:X:714:THR:HG22	1:X:715:VAL:N	2.26	0.51
1:g:435:MET:SD	1:g:471:MET:HG2	2.51	0.51
1:i:528:LYS:NZ	1:i:575:GLU:OE2	2.38	0.51
1:m:714:THR:HG22	1:m:715:VAL:N	2.26	0.51
1:o:447:ASN:HD22	1:p:552:ASN:ND2	2.09	0.51
1:o:714:THR:HG22	1:o:715:VAL:N	2.26	0.51
1:r:429:GLN:HE22	1:s:352:PRO:HB3	1.76	0.51
1:t:611:ASP:OD1	1:t:729:THR:OG1	2.23	0.51
1:2:435:MET:SD	1:2:471:MET:HG2	2.50	0.51
1:C:714:THR:HG22	1:C:715:VAL:N	2.26	0.51
1:E:435:MET:SD	1:E:471:MET:HG2	2.51	0.51
1:K:296:ASP:OD2	1:L:398:TYR:OH	2.27	0.51
1:K:611:ASP:OD1	1:K:729:THR:OG1	2.23	0.51
1:Q:354:VAL:H	1:Q:646:GLN:HE22	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:714:THR:HG22	1:a:715:VAL:N	2.26	0.51
1:d:435:MET:SD	1:d:471:MET:HG2	2.51	0.51
1:f:354:VAL:H	1:f:646:GLN:HE22	1.58	0.51
1:l:714:THR:HG22	1:l:715:VAL:N	2.26	0.51
1:n:714:THR:HG22	1:n:715:VAL:N	2.26	0.51
1:r:714:THR:HG22	1:r:715:VAL:N	2.26	0.51
1:v:435:MET:SD	1:v:471:MET:HG2	2.51	0.51
1:y:435:MET:SD	1:y:471:MET:HG2	2.51	0.51
1:1:714:THR:HG22	1:1:715:VAL:N	2.26	0.51
1:7:714:THR:HG22	1:7:715:VAL:N	2.26	0.51
1:B:714:THR:HG22	1:B:715:VAL:N	2.26	0.51
1:D:352:PRO:HB3	1:P:429:GLN:HE22	1.76	0.51
1:G:257:TYR:OH	1:G:397:GLU:OE1	2.23	0.51
1:G:435:MET:SD	1:G:471:MET:HG2	2.51	0.51
1:H:354:VAL:H	1:H:646:GLN:HE22	1.58	0.51
1:M:714:THR:HG22	1:M:715:VAL:N	2.26	0.51
1:O:714:THR:HG22	1:O:715:VAL:N	2.26	0.51
1:R:257:TYR:OH	1:R:397:GLU:OE1	2.23	0.51
1:Y:714:THR:HG22	1:Y:715:VAL:N	2.26	0.51
1:d:714:THR:HG22	1:d:715:VAL:N	2.26	0.51
1:g:714:THR:HG22	1:g:715:VAL:N	2.26	0.51
1:k:714:THR:HG22	1:k:715:VAL:N	2.26	0.51
1:n:435:MET:SD	1:n:471:MET:HG2	2.51	0.51
1:u:714:THR:HG22	1:u:715:VAL:N	2.26	0.51
1:w:435:MET:SD	1:w:471:MET:HG2	2.51	0.51
1:2:714:THR:HG22	1:2:715:VAL:N	2.26	0.51
1:5:354:VAL:H	1:5:646:GLN:HE22	1.58	0.51
1:D:714:THR:HG22	1:D:715:VAL:N	2.26	0.50
1:G:611:ASP:OD1	1:G:729:THR:OG1	2.23	0.50
1:I:714:THR:HG22	1:I:715:VAL:N	2.26	0.50
1:J:611:ASP:OD1	1:J:729:THR:OG1	2.23	0.50
1:J:714:THR:HG22	1:J:715:VAL:N	2.26	0.50
1:X:487:GLN:NE2	1:e:585:GLN:H	2.09	0.50
1:c:352:PRO:HB3	1:p:429:GLN:HE22	1.76	0.50
1:c:585:GLN:H	1:o:487:GLN:NE2	2.09	0.50
1:j:429:GLN:HE22	1:k:352:PRO:HB3	1.76	0.50
1:p:714:THR:HG22	1:p:715:VAL:N	2.26	0.50
1:q:447:ASN:HD22	1:r:552:ASN:ND2	2.09	0.50
1:w:590:ASP:OD1	1:x:497:ASN:ND2	2.43	0.50
1:x:354:VAL:H	1:x:646:GLN:HE22	1.58	0.50
1:x:429:GLN:HE22	1:y:352:PRO:HB3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:590:ASP:OD1	1:1:497:ASN:ND2	2.44	0.50
1:A:487:GLN:NE2	1:I:585:GLN:H	2.10	0.50
1:A:585:GLN:H	1:G:487:GLN:NE2	2.10	0.50
1:B:429:GLN:HE22	1:J:352:PRO:HB3	1.76	0.50
1:E:429:GLN:HE22	1:Q:352:PRO:HB3	1.76	0.50
1:E:590:ASP:OD1	1:Q:497:ASN:ND2	2.43	0.50
1:H:447:ASN:HD22	1:W:552:ASN:ND2	2.09	0.50
1:I:435:MET:SD	1:I:471:MET:HG2	2.50	0.50
1:N:714:THR:HG22	1:N:715:VAL:N	2.26	0.50
1:R:447:ASN:HD22	1:S:552:ASN:ND2	2.09	0.50
1:V:714:THR:HG22	1:V:715:VAL:N	2.26	0.50
1:X:552:ASN:ND2	1:e:447:ASN:HD22	2.09	0.50
1:b:354:VAL:H	1:b:646:GLN:HE22	1.58	0.50
1:h:354:VAL:H	1:h:646:GLN:HE22	1.58	0.50
1:h:714:THR:HG22	1:h:715:VAL:N	2.26	0.50
1:i:552:ASN:ND2	1:k:447:ASN:HD22	2.09	0.50
1:i:714:THR:HG22	1:i:715:VAL:N	2.26	0.50
1:m:528:LYS:NZ	1:m:575:GLU:OE2	2.38	0.50
1:t:435:MET:SD	1:t:471:MET:HG2	2.51	0.50
1:u:528:LYS:NZ	1:u:575:GLU:OE2	2.38	0.50
1:u:585:GLN:H	1:v:487:GLN:NE2	2.10	0.50
1:z:714:THR:HG22	1:z:715:VAL:N	2.26	0.50
1:3:714:THR:HG22	1:3:715:VAL:N	2.26	0.50
1:B:497:ASN:ND2	1:L:590:ASP:OD1	2.44	0.50
1:D:447:ASN:HD22	1:N:552:ASN:ND2	2.09	0.50
1:F:352:PRO:HB3	1:Q:429:GLN:HE22	1.76	0.50
1:F:435:MET:SD	1:F:471:MET:HG2	2.51	0.50
1:K:552:ASN:ND2	1:8:447:ASN:HD22	2.09	0.50
1:K:714:THR:HG22	1:K:715:VAL:N	2.26	0.50
1:N:429:GLN:HE22	1:P:352:PRO:HB3	1.76	0.50
1:P:257:TYR:OH	1:P:397:GLU:OE1	2.23	0.50
1:T:429:GLN:HE22	1:d:352:PRO:HB3	1.76	0.50
1:U:435:MET:SD	1:U:471:MET:HG2	2.50	0.50
1:U:714:THR:HG22	1:U:715:VAL:N	2.26	0.50
1:V:429:GLN:HE22	1:e:352:PRO:HB3	1.76	0.50
1:W:714:THR:HG22	1:W:715:VAL:N	2.26	0.50
1:b:714:THR:HG22	1:b:715:VAL:N	2.26	0.50
1:c:447:ASN:HD22	1:o:552:ASN:ND2	2.09	0.50
1:i:429:GLN:HE22	1:j:352:PRO:HB3	1.76	0.50
1:j:447:ASN:HD22	1:k:552:ASN:ND2	2.09	0.50
1:q:552:ASN:ND2	1:s:447:ASN:HD22	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:714:THR:HG22	1:s:715:VAL:N	2.26	0.50
1:t:257:TYR:OH	1:t:397:GLU:OE1	2.23	0.50
1:t:487:GLN:NE2	1:v:585:GLN:H	2.10	0.50
1:u:435:MET:SD	1:u:471:MET:HG2	2.50	0.50
1:w:487:GLN:NE2	1:y:585:GLN:H	2.10	0.50
1:1:429:GLN:HE22	1:2:352:PRO:HB3	1.76	0.50
1:4:714:THR:HG22	1:4:715:VAL:N	2.26	0.50
1:5:447:ASN:HD22	1:6:552:ASN:ND2	2.09	0.50
1:5:497:ASN:ND2	1:7:590:ASP:OD1	2.44	0.50
1:C:352:PRO:HB3	1:M:429:GLN:HE22	1.76	0.50
1:C:590:ASP:OD1	1:b:497:ASN:ND2	2.43	0.50
1:C:611:ASP:OD1	1:C:729:THR:OG1	2.23	0.50
1:D:552:ASN:ND2	1:P:447:ASN:HD22	2.09	0.50
1:E:487:GLN:NE2	1:F:585:GLN:H	2.10	0.50
1:E:497:ASN:ND2	1:F:590:ASP:OD1	2.43	0.50
1:H:487:GLN:NE2	1:Y:585:GLN:H	2.10	0.50
1:L:714:THR:HG22	1:L:715:VAL:N	2.26	0.50
1:M:352:PRO:HB3	1:b:429:GLN:HE22	1.76	0.50
1:R:487:GLN:NE2	1:U:585:GLN:H	2.10	0.50
1:U:528:LYS:NZ	1:U:575:GLU:OE2	2.38	0.50
1:X:435:MET:SD	1:X:471:MET:HG2	2.51	0.50
1:Z:447:ASN:HD22	1:4:552:ASN:ND2	2.09	0.50
1:Z:590:ASP:OD1	1:4:497:ASN:ND2	2.44	0.50
1:f:714:THR:HG22	1:f:715:VAL:N	2.26	0.50
1:j:257:TYR:OH	1:j:397:GLU:OE1	2.23	0.50
1:q:257:TYR:OH	1:q:397:GLU:OE1	2.23	0.50
1:q:487:GLN:NE2	1:s:585:GLN:H	2.10	0.50
1:s:435:MET:SD	1:s:471:MET:HG2	2.50	0.50
1:w:429:GLN:HE22	1:x:352:PRO:HB3	1.76	0.50
1:w:497:ASN:ND2	1:y:590:ASP:OD1	2.43	0.50
1:3:435:MET:SD	1:3:471:MET:HG2	2.51	0.50
1:5:487:GLN:NE2	1:7:585:GLN:H	2.10	0.50
1:B:487:GLN:NE2	1:L:585:GLN:H	2.10	0.50
1:C:447:ASN:HD22	1:b:552:ASN:ND2	2.09	0.50
1:E:585:GLN:H	1:Q:487:GLN:NE2	2.10	0.50
1:E:714:THR:HG22	1:E:715:VAL:N	2.26	0.50
1:F:714:THR:HG22	1:F:715:VAL:N	2.26	0.50
1:G:429:GLN:HE22	1:I:352:PRO:HB3	1.76	0.50
1:H:497:ASN:ND2	1:Y:590:ASP:OD1	2.44	0.50
1:P:714:THR:HG22	1:P:715:VAL:N	2.26	0.50
1:R:552:ASN:ND2	1:U:447:ASN:HD22	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:585:GLN:H	1:U:487:GLN:NE2	2.10	0.50
1:Z:429:GLN:HE22	1:4:352:PRO:HB3	1.76	0.50
1:Z:714:THR:HG22	1:Z:715:VAL:N	2.26	0.50
1:c:552:ASN:ND2	1:p:447:ASN:HD22	2.09	0.50
1:f:497:ASN:ND2	1:g:590:ASP:OD1	2.43	0.50
1:i:435:MET:SD	1:i:471:MET:HG2	2.50	0.50
1:j:714:THR:HG22	1:j:715:VAL:N	2.26	0.50
1:m:429:GLN:HE22	1:n:352:PRO:HB3	1.76	0.50
1:o:435:MET:SD	1:o:471:MET:HG2	2.51	0.50
1:r:585:GLN:H	1:s:487:GLN:NE2	2.10	0.50
1:t:429:GLN:HE22	1:u:352:PRO:HB3	1.76	0.50
1:w:585:GLN:H	1:x:487:GLN:NE2	2.10	0.50
1:w:714:THR:HG22	1:w:715:VAL:N	2.26	0.50
1:y:714:THR:HG22	1:y:715:VAL:N	2.26	0.50
1:2:611:ASP:OD1	1:2:729:THR:OG1	2.23	0.50
1:6:714:THR:HG22	1:6:715:VAL:N	2.26	0.50
1:F:552:ASN:ND2	1:Q:447:ASN:HD22	2.09	0.50
1:H:585:GLN:H	1:W:487:GLN:NE2	2.10	0.50
1:K:497:ASN:ND2	1:8:590:ASP:OD1	2.44	0.50
1:O:429:GLN:HE22	1:m:352:PRO:HB3	1.76	0.50
1:S:447:ASN:HD22	1:U:552:ASN:ND2	2.09	0.50
1:T:447:ASN:HD22	1:d:552:ASN:ND2	2.09	0.50
1:T:528:LYS:NZ	1:T:575:GLU:OE2	2.38	0.50
1:T:585:GLN:H	1:d:487:GLN:NE2	2.10	0.50
1:V:447:ASN:HD22	1:e:552:ASN:ND2	2.09	0.50
1:Z:487:GLN:NE2	1:3:585:GLN:H	2.10	0.50
1:a:585:GLN:H	1:8:487:GLN:NE2	2.10	0.50
1:c:714:THR:HG22	1:c:715:VAL:N	2.26	0.50
1:f:447:ASN:HD22	1:h:552:ASN:ND2	2.09	0.50
1:f:552:ASN:ND2	1:g:447:ASN:HD22	2.09	0.50
1:m:585:GLN:H	1:n:487:GLN:NE2	2.10	0.50
1:z:585:GLN:H	1:1:487:GLN:NE2	2.10	0.50
1:5:585:GLN:H	1:6:487:GLN:NE2	2.10	0.50
1:8:714:THR:HG22	1:8:715:VAL:N	2.26	0.50
1:K:352:PRO:HB3	1:8:429:GLN:HE22	1.76	0.50
1:N:435:MET:SD	1:N:471:MET:HG2	2.51	0.50
1:R:354:VAL:H	1:R:646:GLN:HE22	1.58	0.50
1:T:552:ASN:ND2	1:l:447:ASN:HD22	2.09	0.50
1:V:590:ASP:OD1	1:e:497:ASN:ND2	2.43	0.50
1:a:435:MET:SD	1:a:471:MET:HG2	2.51	0.50
1:d:590:ASP:OD1	1:l:497:ASN:ND2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:714:THR:HG22	1:e:715:VAL:N	2.26	0.50
1:g:352:PRO:HB3	1:h:429:GLN:HE22	1.76	0.50
1:m:447:ASN:HD22	1:n:552:ASN:ND2	2.09	0.50
1:q:429:GLN:HE22	1:r:352:PRO:HB3	1.76	0.50
1:r:447:ASN:HD22	1:s:552:ASN:ND2	2.09	0.50
1:x:447:ASN:HD22	1:y:552:ASN:ND2	2.09	0.50
1:5:429:GLN:HE22	1:6:352:PRO:HB3	1.76	0.50
1:O:447:ASN:HD22	1:m:552:ASN:ND2	2.09	0.50
1:O:585:GLN:H	1:m:487:GLN:NE2	2.10	0.50
1:R:585:GLN:H	1:S:487:GLN:NE2	2.10	0.50
1:T:352:PRO:HB3	1:l:429:GLN:HE22	1.76	0.50
1:T:487:GLN:NE2	1:l:585:GLN:H	2.10	0.50
1:i:487:GLN:NE2	1:k:585:GLN:H	2.10	0.50
1:o:528:LYS:NZ	1:o:575:GLU:OE2	2.38	0.50
1:p:528:LYS:NZ	1:p:575:GLU:OE2	2.38	0.50
1:q:585:GLN:H	1:r:487:GLN:NE2	2.10	0.50
1:z:447:ASN:HD22	1:1:552:ASN:ND2	2.09	0.50
1:1:447:ASN:HD22	1:2:552:ASN:ND2	2.09	0.50
1:6:447:ASN:HD22	1:7:552:ASN:ND2	2.09	0.50
1:B:552:ASN:ND2	1:L:447:ASN:HD22	2.09	0.50
1:C:585:GLN:H	1:b:487:GLN:NE2	2.10	0.50
1:D:585:GLN:H	1:N:487:GLN:NE2	2.10	0.50
1:H:429:GLN:HE22	1:W:352:PRO:HB3	1.76	0.50
1:O:497:ASN:ND2	1:n:590:ASP:OD1	2.43	0.50
1:R:429:GLN:HE22	1:S:352:PRO:HB3	1.76	0.50
1:Z:352:PRO:HB3	1:3:429:GLN:HE22	1.76	0.50
1:c:497:ASN:ND2	1:p:590:ASP:OD1	2.43	0.50
1:g:497:ASN:ND2	1:h:590:ASP:OD1	2.44	0.50
1:g:611:ASP:OD1	1:g:729:THR:OG1	2.23	0.50
1:v:714:THR:HG22	1:v:715:VAL:N	2.26	0.50
1:A:714:THR:HG22	1:A:715:VAL:N	2.26	0.49
1:B:447:ASN:HD22	1:J:552:ASN:ND2	2.09	0.49
1:O:487:GLN:NE2	1:n:585:GLN:H	2.10	0.49
1:W:447:ASN:HD22	1:Y:552:ASN:ND2	2.09	0.49
1:a:429:GLN:HE22	1:8:352:PRO:HB3	1.76	0.49
1:d:585:GLN:H	1:l:487:GLN:NE2	2.10	0.49
1:f:487:GLN:NE2	1:g:585:GLN:H	2.10	0.49
1:f:585:GLN:H	1:h:487:GLN:NE2	2.09	0.49
1:j:590:ASP:OD1	1:k:497:ASN:ND2	2.44	0.49
1:q:354:VAL:H	1:q:646:GLN:HE22	1.58	0.49
1:t:352:PRO:HB3	1:v:429:GLN:HE22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:GLN:HE22	1:G:352:PRO:HB3	1.76	0.49
1:D:497:ASN:ND2	1:P:590:ASP:OD1	2.44	0.49
1:L:225:SER:HG	1:L:318:ASN:H	1.59	0.49
1:M:481:GLY:HA3	1:M:607:TRP:HB3	1.95	0.49
1:V:487:GLN:NE2	1:X:585:GLN:H	2.10	0.49
1:o:585:GLN:H	1:p:487:GLN:NE2	2.10	0.49
1:w:447:ASN:HD22	1:x:552:ASN:ND2	2.09	0.49
1:1:585:GLN:H	1:2:487:GLN:NE2	2.10	0.49
1:5:714:THR:HG22	1:5:715:VAL:N	2.26	0.49
1:B:590:ASP:OD1	1:J:497:ASN:ND2	2.43	0.49
1:E:447:ASN:HD22	1:Q:552:ASN:ND2	2.09	0.49
1:H:714:THR:HG22	1:H:715:VAL:N	2.26	0.49
1:I:354:VAL:H	1:I:646:GLN:HE22	1.58	0.49
1:N:447:ASN:HD22	1:P:552:ASN:ND2	2.09	0.49
1:X:528:LYS:NZ	1:X:575:GLU:OE2	2.38	0.49
1:h:481:GLY:HA3	1:h:607:TRP:HB3	1.95	0.49
1:t:481:GLY:HA3	1:t:607:TRP:HB3	1.95	0.49
1:5:552:ASN:ND2	1:7:447:ASN:HD22	2.09	0.49
1:A:447:ASN:HD22	1:G:552:ASN:ND2	2.09	0.49
1:F:487:GLN:NE2	1:Q:585:GLN:H	2.10	0.49
1:G:481:GLY:HA3	1:G:607:TRP:HB3	1.95	0.49
1:H:590:ASP:OD1	1:W:497:ASN:ND2	2.44	0.49
1:R:352:PRO:HB3	1:U:429:GLN:HE22	1.76	0.49
1:T:590:ASP:OD1	1:d:497:ASN:ND2	2.43	0.49
1:j:585:GLN:H	1:k:487:GLN:NE2	2.10	0.49
1:u:429:GLN:HE22	1:v:352:PRO:HB3	1.76	0.49
1:x:585:GLN:H	1:y:487:GLN:NE2	2.10	0.49
1:z:225:SER:HG	1:z:318:ASN:H	1.60	0.49
1:3:552:ASN:ND2	1:4:447:ASN:HD22	2.09	0.49
1:C:481:GLY:HA3	1:C:607:TRP:HB3	1.95	0.49
1:D:487:GLN:NE2	1:P:585:GLN:H	2.10	0.49
1:H:552:ASN:ND2	1:Y:447:ASN:HD22	2.09	0.49
1:K:447:ASN:HD22	1:a:552:ASN:ND2	2.09	0.49
1:O:352:PRO:HB3	1:n:429:GLN:HE22	1.76	0.49
1:g:481:GLY:HA3	1:g:607:TRP:HB3	1.95	0.49
1:i:447:ASN:HD22	1:j:552:ASN:ND2	2.09	0.49
1:j:481:GLY:HA3	1:j:607:TRP:HB3	1.95	0.49
1:t:552:ASN:ND2	1:v:447:ASN:HD22	2.09	0.49
1:A:352:PRO:HB3	1:I:429:GLN:HE22	1.76	0.49
1:P:481:GLY:HA3	1:P:607:TRP:HB3	1.95	0.49
1:Z:585:GLN:H	1:4:487:GLN:NE2	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:284:ASP:O	1:b:362:CYS:HA	2.13	0.49
1:f:284:ASP:O	1:f:362:CYS:HA	2.13	0.49
1:i:352:PRO:HB3	1:k:429:GLN:HE22	1.76	0.49
1:m:590:ASP:OD1	1:n:497:ASN:ND2	2.43	0.49
1:q:352:PRO:HB3	1:s:429:GLN:HE22	1.76	0.49
1:1:590:ASP:OD1	1:2:497:ASN:ND2	2.43	0.49
1:5:590:ASP:OD1	1:6:497:ASN:ND2	2.44	0.49
1:D:429:GLN:HE22	1:N:352:PRO:HB3	1.76	0.49
1:G:284:ASP:O	1:G:362:CYS:HA	2.13	0.49
1:G:354:VAL:H	1:G:646:GLN:HE22	1.58	0.49
1:I:284:ASP:O	1:I:362:CYS:HA	2.13	0.49
1:K:585:GLN:H	1:a:487:GLN:NE2	2.10	0.49
1:N:585:GLN:H	1:P:487:GLN:NE2	2.10	0.49
1:U:284:ASP:O	1:U:362:CYS:HA	2.13	0.49
1:V:284:ASP:O	1:V:362:CYS:HA	2.13	0.49
1:a:481:GLY:HA3	1:a:607:TRP:HB3	1.95	0.49
1:i:585:GLN:H	1:j:487:GLN:NE2	2.10	0.49
1:k:284:ASP:O	1:k:362:CYS:HA	2.13	0.49
1:q:590:ASP:OD1	1:r:497:ASN:ND2	2.43	0.49
1:r:590:ASP:OD1	1:s:497:ASN:ND2	2.43	0.49
1:t:354:VAL:H	1:t:646:GLN:HE22	1.58	0.49
1:u:284:ASP:O	1:u:362:CYS:HA	2.13	0.49
1:u:354:VAL:H	1:u:646:GLN:HE22	1.58	0.49
1:u:447:ASN:HD22	1:v:552:ASN:ND2	2.09	0.49
1:u:590:ASP:OD1	1:v:497:ASN:ND2	2.43	0.49
1:3:284:ASP:O	1:3:362:CYS:HA	2.13	0.49
1:3:481:GLY:HA3	1:3:607:TRP:HB3	1.95	0.49
1:A:497:ASN:ND2	1:I:590:ASP:OD1	2.43	0.49
1:D:284:ASP:O	1:D:362:CYS:HA	2.13	0.49
1:E:284:ASP:O	1:E:362:CYS:HA	2.13	0.49
1:G:585:GLN:H	1:I:487:GLN:NE2	2.10	0.49
1:I:502:THR:O	1:I:506:ALA:HB2	2.13	0.49
1:K:487:GLN:NE2	1:8:585:GLN:H	2.10	0.49
1:K:635:MET:HB2	1:8:477:ASN:HD21	1.78	0.49
1:M:635:MET:HB2	1:b:477:ASN:HD21	1.77	0.49
1:R:590:ASP:OD1	1:S:497:ASN:ND2	2.43	0.49
1:a:284:ASP:O	1:a:362:CYS:HA	2.13	0.49
1:d:429:GLN:HE22	1:l:352:PRO:HB3	1.76	0.49
1:e:502:THR:O	1:e:506:ALA:HB2	2.13	0.49
1:i:284:ASP:O	1:i:362:CYS:HA	2.13	0.49
1:l:284:ASP:O	1:l:362:CYS:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:284:ASP:O	1:p:362:CYS:HA	2.13	0.49
1:s:284:ASP:O	1:s:362:CYS:HA	2.13	0.49
1:t:585:GLN:H	1:u:487:GLN:NE2	2.10	0.49
1:u:502:THR:O	1:u:506:ALA:HB2	2.13	0.49
1:w:284:ASP:O	1:w:362:CYS:HA	2.13	0.49
1:x:284:ASP:O	1:x:362:CYS:HA	2.13	0.49
1:3:487:GLN:NE2	1:4:585:GLN:H	2.10	0.49
1:4:628:HIS:HE1	1:4:641:LYS:HZ3	1.61	0.49
1:A:552:ASN:ND2	1:I:447:ASN:HD22	2.09	0.49
1:B:284:ASP:O	1:B:362:CYS:HA	2.13	0.49
1:D:481:GLY:HA3	1:D:607:TRP:HB3	1.95	0.49
1:G:477:ASN:HD21	1:I:635:MET:HB2	1.78	0.49
1:G:502:THR:O	1:G:506:ALA:HB2	2.13	0.49
1:N:284:ASP:O	1:N:362:CYS:HA	2.13	0.49
1:O:284:ASP:O	1:O:362:CYS:HA	2.13	0.49
1:Q:284:ASP:O	1:Q:362:CYS:HA	2.13	0.49
1:S:590:ASP:OD1	1:U:497:ASN:ND2	2.43	0.49
1:W:284:ASP:O	1:W:362:CYS:HA	2.13	0.49
1:Y:354:VAL:H	1:Y:646:GLN:HE22	1.58	0.49
1:Z:477:ASN:HD21	1:4:635:MET:HB2	1.78	0.49
1:c:502:THR:O	1:c:506:ALA:HB2	2.13	0.49
1:d:284:ASP:O	1:d:362:CYS:HA	2.13	0.49
1:h:284:ASP:O	1:h:362:CYS:HA	2.13	0.49
1:i:590:ASP:OD1	1:j:497:ASN:ND2	2.44	0.49
1:k:481:GLY:HA3	1:k:607:TRP:HB3	1.95	0.49
1:q:284:ASP:O	1:q:362:CYS:HA	2.13	0.49
1:t:284:ASP:O	1:t:362:CYS:HA	2.13	0.49
1:t:477:ASN:HD21	1:u:635:MET:HB2	1.78	0.49
1:t:502:THR:O	1:t:506:ALA:HB2	2.13	0.49
1:6:284:ASP:O	1:6:362:CYS:HA	2.13	0.49
1:7:284:ASP:O	1:7:362:CYS:HA	2.13	0.49
1:A:502:THR:O	1:A:506:ALA:HB2	2.13	0.49
1:D:246:THR:CG2	1:D:370:VAL:HG22	2.43	0.49
1:I:246:THR:CG2	1:I:370:VAL:HG22	2.43	0.49
1:J:429:GLN:HE22	1:L:352:PRO:HB3	1.76	0.49
1:N:481:GLY:HA3	1:N:607:TRP:HB3	1.95	0.49
1:N:590:ASP:OD1	1:P:497:ASN:ND2	2.44	0.49
1:Q:502:THR:O	1:Q:506:ALA:HB2	2.13	0.49
1:R:284:ASP:O	1:R:362:CYS:HA	2.13	0.49
1:V:585:GLN:H	1:e:487:GLN:NE2	2.10	0.49
1:X:502:THR:O	1:X:506:ALA:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:284:ASP:O	1:Y:362:CYS:HA	2.13	0.49
1:c:481:GLY:HA3	1:c:607:TRP:HB3	1.95	0.49
1:k:246:THR:CG2	1:k:370:VAL:HG22	2.43	0.49
1:m:481:GLY:HA3	1:m:607:TRP:HB3	1.95	0.49
1:n:284:ASP:O	1:n:362:CYS:HA	2.13	0.49
1:o:502:THR:O	1:o:506:ALA:HB2	2.13	0.49
1:u:246:THR:CG2	1:u:370:VAL:HG22	2.43	0.49
1:x:502:THR:O	1:x:506:ALA:HB2	2.13	0.49
1:y:528:LYS:NZ	1:y:575:GLU:OE2	2.38	0.49
1:z:487:GLN:NE2	1:2:585:GLN:H	2.10	0.49
1:z:502:THR:O	1:z:506:ALA:HB2	2.13	0.49
1:1:284:ASP:O	1:1:362:CYS:HA	2.13	0.49
1:7:354:VAL:H	1:7:646:GLN:HE22	1.58	0.49
1:8:502:THR:O	1:8:506:ALA:HB2	2.13	0.49
1:E:246:THR:CG2	1:E:370:VAL:HG22	2.43	0.48
1:E:477:ASN:HD21	1:Q:635:MET:HB2	1.78	0.48
1:J:585:GLN:H	1:L:487:GLN:NE2	2.10	0.48
1:K:481:GLY:HA3	1:K:607:TRP:HB3	1.95	0.48
1:M:284:ASP:O	1:M:362:CYS:HA	2.13	0.48
1:T:354:VAL:H	1:T:646:GLN:HE22	1.57	0.48
1:T:481:GLY:HA3	1:T:607:TRP:HB3	1.95	0.48
1:Y:257:TYR:OH	1:Y:397:GLU:OE1	2.23	0.48
1:a:246:THR:CG2	1:a:370:VAL:HG22	2.43	0.48
1:a:354:VAL:H	1:a:646:GLN:HE22	1.58	0.48
1:c:487:GLN:NE2	1:p:585:GLN:H	2.10	0.48
1:i:481:GLY:HA3	1:i:607:TRP:HB3	1.95	0.48
1:n:502:THR:O	1:n:506:ALA:HB2	2.13	0.48
1:s:354:VAL:H	1:s:646:GLN:HE22	1.58	0.48
1:v:502:THR:O	1:v:506:ALA:HB2	2.13	0.48
1:w:246:THR:CG2	1:w:370:VAL:HG22	2.43	0.48
1:3:246:THR:CG2	1:3:370:VAL:HG22	2.43	0.48
1:4:481:GLY:HA3	1:4:607:TRP:HB3	1.95	0.48
1:6:585:GLN:H	1:7:487:GLN:NE2	2.10	0.48
1:7:257:TYR:OH	1:7:397:GLU:OE1	2.23	0.48
1:A:635:MET:HB2	1:I:477:ASN:HD21	1.79	0.48
1:B:352:PRO:HB3	1:L:429:GLN:HE22	1.76	0.48
1:L:502:THR:O	1:L:506:ALA:HB2	2.13	0.48
1:P:269:ASN:HA	1:P:272:HIS:CD2	2.49	0.48
1:R:246:THR:CG2	1:R:370:VAL:HG22	2.43	0.48
1:T:269:ASN:HA	1:T:272:HIS:CD2	2.49	0.48
1:U:246:THR:CG2	1:U:370:VAL:HG22	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:269:ASN:HA	1:U:272:HIS:CD2	2.49	0.48
1:W:585:GLN:H	1:Y:487:GLN:NE2	2.10	0.48
1:X:284:ASP:O	1:X:362:CYS:HA	2.13	0.48
1:Y:502:THR:O	1:Y:506:ALA:HB2	2.13	0.48
1:Z:502:THR:O	1:Z:506:ALA:HB2	2.13	0.48
1:a:628:HIS:HE1	1:a:641:LYS:HZ3	1.60	0.48
1:d:502:THR:O	1:d:506:ALA:HB2	2.13	0.48
1:e:481:GLY:HA3	1:e:607:TRP:HB3	1.95	0.48
1:f:528:LYS:NZ	1:f:575:GLU:OE2	2.38	0.48
1:g:502:THR:O	1:g:506:ALA:HB2	2.13	0.48
1:j:269:ASN:HA	1:j:272:HIS:CD2	2.49	0.48
1:m:269:ASN:HA	1:m:272:HIS:CD2	2.49	0.48
1:q:246:THR:CG2	1:q:370:VAL:HG22	2.43	0.48
1:s:246:THR:CG2	1:s:370:VAL:HG22	2.43	0.48
1:w:477:ASN:HD21	1:x:635:MET:HB2	1.78	0.48
1:z:352:PRO:HB3	1:2:429:GLN:HE22	1.76	0.48
1:7:502:THR:O	1:7:506:ALA:HB2	2.13	0.48
1:C:429:GLN:HE22	1:b:352:PRO:HB3	1.76	0.48
1:C:502:THR:O	1:C:506:ALA:HB2	2.13	0.48
1:D:484:TYR:O	1:D:524:MET:HE1	2.14	0.48
1:E:484:TYR:O	1:E:524:MET:HE1	2.14	0.48
1:F:502:THR:O	1:F:506:ALA:HB2	2.13	0.48
1:K:502:THR:O	1:K:506:ALA:HB2	2.13	0.48
1:P:502:THR:O	1:P:506:ALA:HB2	2.13	0.48
1:Q:269:ASN:HA	1:Q:272:HIS:CD2	2.49	0.48
1:R:481:GLY:HA3	1:R:607:TRP:HB3	1.95	0.48
1:R:502:THR:O	1:R:506:ALA:HB2	2.13	0.48
1:S:269:ASN:HA	1:S:272:HIS:CD2	2.49	0.48
1:T:284:ASP:O	1:T:362:CYS:HA	2.13	0.48
1:U:354:VAL:H	1:U:646:GLN:HE22	1.58	0.48
1:U:502:THR:O	1:U:506:ALA:HB2	2.13	0.48
1:V:352:PRO:HB3	1:X:429:GLN:HE22	1.76	0.48
1:V:481:GLY:HA3	1:V:607:TRP:HB3	1.95	0.48
1:W:502:THR:O	1:W:506:ALA:HB2	2.13	0.48
1:X:246:THR:CG2	1:X:370:VAL:HG22	2.43	0.48
1:Z:284:ASP:O	1:Z:362:CYS:HA	2.13	0.48
1:Z:492:THR:HG22	1:Z:494:THR:HG22	1.96	0.48
1:c:257:TYR:OH	1:c:397:GLU:OE1	2.23	0.48
1:f:352:PRO:HB3	1:g:429:GLN:HE22	1.76	0.48
1:m:284:ASP:O	1:m:362:CYS:HA	2.13	0.48
1:m:354:VAL:H	1:m:646:GLN:HE22	1.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:246:THR:CG2	1:n:370:VAL:HG22	2.43	0.48
1:o:429:GLN:HE22	1:p:352:PRO:HB3	1.76	0.48
1:p:481:GLY:HA3	1:p:607:TRP:HB3	1.95	0.48
1:q:481:GLY:HA3	1:q:607:TRP:HB3	1.95	0.48
1:q:502:THR:O	1:q:506:ALA:HB2	2.13	0.48
1:r:269:ASN:HA	1:r:272:HIS:CD2	2.49	0.48
1:s:269:ASN:HA	1:s:272:HIS:CD2	2.49	0.48
1:s:502:THR:O	1:s:506:ALA:HB2	2.13	0.48
1:u:477:ASN:HD21	1:v:635:MET:HB2	1.79	0.48
1:x:269:ASN:HA	1:x:272:HIS:CD2	2.49	0.48
1:z:269:ASN:HA	1:z:272:HIS:CD2	2.49	0.48
1:2:502:THR:O	1:2:506:ALA:HB2	2.13	0.48
1:3:354:VAL:H	1:3:646:GLN:HE22	1.58	0.48
1:5:481:GLY:HA3	1:5:607:TRP:HB3	1.95	0.48
1:6:502:THR:O	1:6:506:ALA:HB2	2.13	0.48
1:7:246:THR:CG2	1:7:370:VAL:HG22	2.43	0.48
1:A:269:ASN:HA	1:A:272:HIS:CD2	2.49	0.48
1:B:481:GLY:HA3	1:B:607:TRP:HB3	1.95	0.48
1:E:269:ASN:HA	1:E:272:HIS:CD2	2.49	0.48
1:J:502:THR:O	1:J:506:ALA:HB2	2.13	0.48
1:K:269:ASN:HA	1:K:272:HIS:CD2	2.49	0.48
1:K:477:ASN:HD21	1:a:635:MET:HB2	1.79	0.48
1:L:269:ASN:HA	1:L:272:HIS:CD2	2.49	0.48
1:M:487:GLN:NE2	1:b:585:GLN:H	2.11	0.48
1:O:590:ASP:OD1	1:m:497:ASN:ND2	2.44	0.48
1:P:246:THR:CG2	1:P:370:VAL:HG22	2.43	0.48
1:Q:481:GLY:HA3	1:Q:607:TRP:HB3	1.95	0.48
1:S:477:ASN:HD21	1:U:635:MET:HB2	1.78	0.48
1:Y:246:THR:CG2	1:Y:370:VAL:HG22	2.43	0.48
1:Y:269:ASN:HA	1:Y:272:HIS:CD2	2.48	0.48
1:Z:269:ASN:HA	1:Z:272:HIS:CD2	2.49	0.48
1:b:492:THR:HG22	1:b:494:THR:HG22	1.96	0.48
1:d:246:THR:CG2	1:d:370:VAL:HG22	2.43	0.48
1:d:484:TYR:O	1:d:524:MET:HE1	2.14	0.48
1:e:257:TYR:OH	1:e:397:GLU:OE1	2.23	0.48
1:f:492:THR:HG22	1:f:494:THR:HG22	1.96	0.48
1:i:492:THR:HG22	1:i:494:THR:HG22	1.96	0.48
1:i:497:ASN:ND2	1:k:590:ASP:OD1	2.44	0.48
1:j:246:THR:CG2	1:j:370:VAL:HG22	2.43	0.48
1:j:502:THR:O	1:j:506:ALA:HB2	2.13	0.48
1:k:484:TYR:O	1:k:524:MET:HE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:484:TYR:O	1:n:524:MET:HE1	2.14	0.48
1:o:246:THR:CG2	1:o:370:VAL:HG22	2.43	0.48
1:o:284:ASP:O	1:o:362:CYS:HA	2.13	0.48
1:r:284:ASP:O	1:r:362:CYS:HA	2.13	0.48
1:r:477:ASN:HD21	1:s:635:MET:HB2	1.78	0.48
1:r:492:THR:HG22	1:r:494:THR:HG22	1.96	0.48
1:v:269:ASN:HA	1:v:272:HIS:CD2	2.49	0.48
1:w:484:TYR:O	1:w:524:MET:HE1	2.14	0.48
1:x:246:THR:CG2	1:x:370:VAL:HG22	2.43	0.48
1:x:477:ASN:HD21	1:y:635:MET:HB2	1.79	0.48
1:y:502:THR:O	1:y:506:ALA:HB2	2.13	0.48
1:z:429:GLN:HE22	1:1:352:PRO:HB3	1.76	0.48
1:z:635:MET:HB2	1:2:477:ASN:HD21	1.78	0.48
1:4:269:ASN:HA	1:4:272:HIS:CD2	2.49	0.48
1:4:484:TYR:O	1:4:524:MET:HE1	2.14	0.48
1:4:502:THR:O	1:4:506:ALA:HB2	2.13	0.48
1:7:269:ASN:HA	1:7:272:HIS:CD2	2.48	0.48
1:8:269:ASN:HA	1:8:272:HIS:CD2	2.49	0.48
1:8:481:GLY:HA3	1:8:607:TRP:HB3	1.95	0.48
1:8:492:THR:HG22	1:8:494:THR:HG22	1.96	0.48
1:A:284:ASP:O	1:A:362:CYS:HA	2.13	0.48
1:B:269:ASN:HA	1:B:272:HIS:CD2	2.49	0.48
1:C:487:GLN:NE2	1:M:585:GLN:H	2.09	0.48
1:E:481:GLY:HA3	1:E:607:TRP:HB3	1.95	0.48
1:F:635:MET:HB2	1:Q:477:ASN:HD21	1.79	0.48
1:H:477:ASN:HD21	1:W:635:MET:HB2	1.79	0.48
1:H:481:GLY:HA3	1:H:607:TRP:HB3	1.95	0.48
1:H:528:LYS:NZ	1:H:575:GLU:OE2	2.38	0.48
1:J:477:ASN:HD21	1:L:635:MET:HB2	1.78	0.48
1:K:484:TYR:O	1:K:524:MET:HE1	2.14	0.48
1:N:246:THR:CG2	1:N:370:VAL:HG22	2.43	0.48
1:N:269:ASN:HA	1:N:272:HIS:CD2	2.49	0.48
1:N:492:THR:HG22	1:N:494:THR:HG22	1.96	0.48
1:P:284:ASP:O	1:P:362:CYS:HA	2.13	0.48
1:Q:246:THR:CG2	1:Q:370:VAL:HG22	2.43	0.48
1:R:492:THR:HG22	1:R:494:THR:HG22	1.96	0.48
1:S:284:ASP:O	1:S:362:CYS:HA	2.13	0.48
1:S:492:THR:HG22	1:S:494:THR:HG22	1.96	0.48
1:T:502:THR:O	1:T:506:ALA:HB2	2.13	0.48
1:U:481:GLY:HA3	1:U:607:TRP:HB3	1.95	0.48
1:g:492:THR:HG22	1:g:494:THR:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:269:ASN:HA	1:h:272:HIS:CD2	2.49	0.48
1:h:484:TYR:O	1:h:524:MET:HE1	2.14	0.48
1:i:269:ASN:HA	1:i:272:HIS:CD2	2.48	0.48
1:l:246:THR:CG2	1:l:370:VAL:HG22	2.43	0.48
1:l:481:GLY:HA3	1:l:607:TRP:HB3	1.95	0.48
1:u:484:TYR:O	1:u:524:MET:HE1	2.14	0.48
1:w:269:ASN:HA	1:w:272:HIS:CD2	2.49	0.48
1:w:481:GLY:HA3	1:w:607:TRP:HB3	1.95	0.48
1:1:269:ASN:HA	1:1:272:HIS:CD2	2.49	0.48
1:1:481:GLY:HA3	1:1:607:TRP:HB3	1.95	0.48
1:3:635:MET:HB2	1:4:477:ASN:HD21	1.79	0.48
1:4:492:THR:HG22	1:4:494:THR:HG22	1.96	0.48
1:5:477:ASN:HD21	1:6:635:MET:HB2	1.79	0.48
1:6:429:GLN:HE22	1:7:352:PRO:HB3	1.76	0.48
1:8:284:ASP:O	1:8:362:CYS:HA	2.13	0.48
1:A:492:THR:HG22	1:A:494:THR:HG22	1.96	0.48
1:B:484:TYR:O	1:B:524:MET:HE1	2.14	0.48
1:B:585:GLN:H	1:J:487:GLN:NE2	2.10	0.48
1:C:269:ASN:HA	1:C:272:HIS:CD2	2.49	0.48
1:C:492:THR:HG22	1:C:494:THR:HG22	1.96	0.48
1:D:590:ASP:OD1	1:N:497:ASN:ND2	2.44	0.48
1:I:484:TYR:O	1:I:524:MET:HE1	2.14	0.48
1:K:246:THR:CG2	1:K:370:VAL:HG22	2.43	0.48
1:K:284:ASP:O	1:K:362:CYS:HA	2.13	0.48
1:K:492:THR:HG22	1:K:494:THR:HG22	1.96	0.48
1:L:284:ASP:O	1:L:362:CYS:HA	2.13	0.48
1:M:269:ASN:HA	1:M:272:HIS:CD2	2.49	0.48
1:M:484:TYR:O	1:M:524:MET:HE1	2.14	0.48
1:O:246:THR:CG2	1:O:370:VAL:HG22	2.43	0.48
1:O:481:GLY:HA3	1:O:607:TRP:HB3	1.95	0.48
1:O:492:THR:HG22	1:O:494:THR:HG22	1.96	0.48
1:W:429:GLN:HE22	1:Y:352:PRO:HB3	1.76	0.48
1:Z:481:GLY:HA3	1:Z:607:TRP:HB3	1.95	0.48
1:i:246:THR:CG2	1:i:370:VAL:HG22	2.43	0.48
1:j:284:ASP:O	1:j:362:CYS:HA	2.13	0.48
1:j:484:TYR:O	1:j:524:MET:HE1	2.14	0.48
1:l:492:THR:HG22	1:l:494:THR:HG22	1.96	0.48
1:m:492:THR:HG22	1:m:494:THR:HG22	1.96	0.48
1:m:502:THR:O	1:m:506:ALA:HB2	2.13	0.48
1:q:492:THR:HG22	1:q:494:THR:HG22	1.96	0.48
1:r:481:GLY:HA3	1:r:607:TRP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:590:ASP:OD1	1:u:497:ASN:ND2	2.43	0.48
1:v:284:ASP:O	1:v:362:CYS:HA	2.13	0.48
1:v:492:THR:HG22	1:v:494:THR:HG22	1.96	0.48
1:x:481:GLY:HA3	1:x:607:TRP:HB3	1.95	0.48
1:y:284:ASP:O	1:y:362:CYS:HA	2.13	0.48
1:z:284:ASP:O	1:z:362:CYS:HA	2.13	0.48
1:1:484:TYR:O	1:1:524:MET:HE1	2.14	0.48
1:3:497:ASN:ND2	1:4:590:ASP:OD1	2.43	0.48
1:5:528:LYS:NZ	1:5:575:GLU:OE2	2.38	0.48
1:6:484:TYR:O	1:6:524:MET:HE1	2.14	0.48
1:B:477:ASN:HD21	1:J:635:MET:HB2	1.78	0.48
1:D:269:ASN:HA	1:D:272:HIS:CD2	2.49	0.48
1:G:269:ASN:HA	1:G:272:HIS:CD2	2.49	0.48
1:H:269:ASN:HA	1:H:272:HIS:CD2	2.49	0.48
1:M:276:TYR:OH	1:c:714:THR:HG21	2.14	0.48
1:P:484:TYR:O	1:P:524:MET:HE1	2.14	0.48
1:Q:492:THR:HG22	1:Q:494:THR:HG22	1.96	0.48
1:T:497:ASN:ND2	1:l:590:ASP:OD1	2.44	0.48
1:V:502:THR:O	1:V:506:ALA:HB2	2.13	0.48
1:W:484:TYR:O	1:W:524:MET:HE1	2.14	0.48
1:X:481:GLY:HA3	1:X:607:TRP:HB3	1.95	0.48
1:Y:492:THR:HG22	1:Y:494:THR:HG22	1.96	0.48
1:Z:552:ASN:ND2	1:3:447:ASN:HD22	2.09	0.48
1:g:246:THR:CG2	1:g:370:VAL:HG22	2.43	0.48
1:g:269:ASN:HA	1:g:272:HIS:CD2	2.49	0.48
1:o:481:GLY:HA3	1:o:607:TRP:HB3	1.95	0.48
1:s:481:GLY:HA3	1:s:607:TRP:HB3	1.95	0.48
1:y:492:THR:HG22	1:y:494:THR:HG22	1.96	0.48
1:1:492:THR:HG22	1:1:494:THR:HG22	1.96	0.48
1:5:269:ASN:HA	1:5:272:HIS:CD2	2.49	0.48
1:B:492:THR:HG22	1:B:494:THR:HG22	1.96	0.48
1:C:246:THR:CG2	1:C:370:VAL:HG22	2.43	0.48
1:F:284:ASP:O	1:F:362:CYS:HA	2.13	0.48
1:F:492:THR:HG22	1:F:494:THR:HG22	1.96	0.48
1:G:590:ASP:OD1	1:I:497:ASN:ND2	2.43	0.48
1:H:484:TYR:O	1:H:524:MET:HE1	2.14	0.48
1:I:481:GLY:HA3	1:I:607:TRP:HB3	1.95	0.48
1:M:492:THR:HG22	1:M:494:THR:HG22	1.96	0.48
1:S:246:THR:CG2	1:S:370:VAL:HG22	2.43	0.48
1:S:481:GLY:HA3	1:S:607:TRP:HB3	1.95	0.48
1:T:492:THR:HG22	1:T:494:THR:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:257:TYR:OH	1:Z:397:GLU:OE1	2.23	0.48
1:b:269:ASN:HA	1:b:272:HIS:CD2	2.49	0.48
1:d:257:TYR:OH	1:d:397:GLU:OE1	2.23	0.48
1:f:269:ASN:HA	1:f:272:HIS:CD2	2.49	0.48
1:g:284:ASP:O	1:g:362:CYS:HA	2.13	0.48
1:g:487:GLN:NE2	1:h:585:GLN:H	2.10	0.48
1:m:484:TYR:O	1:m:524:MET:HE1	2.14	0.48
1:r:246:THR:CG2	1:r:370:VAL:HG22	2.43	0.48
1:t:269:ASN:HA	1:t:272:HIS:CD2	2.49	0.48
1:x:492:THR:HG22	1:x:494:THR:HG22	1.96	0.48
1:1:477:ASN:HD21	1:2:635:MET:HB2	1.78	0.48
1:4:246:THR:CG2	1:4:370:VAL:HG22	2.43	0.48
1:4:284:ASP:O	1:4:362:CYS:HA	2.13	0.48
1:7:492:THR:HG22	1:7:494:THR:HG22	1.96	0.48
1:J:284:ASP:O	1:J:362:CYS:HA	2.13	0.48
1:K:590:ASP:OD1	1:a:497:ASN:ND2	2.43	0.48
1:L:481:GLY:HA3	1:L:607:TRP:HB3	1.95	0.48
1:N:528:LYS:NZ	1:N:575:GLU:OE2	2.38	0.48
1:Q:484:TYR:O	1:Q:524:MET:HE1	2.14	0.48
1:R:635:MET:HB2	1:U:477:ASN:HD21	1.78	0.48
1:S:502:THR:O	1:S:506:ALA:HB2	2.13	0.48
1:T:484:TYR:O	1:T:524:MET:HE1	2.14	0.48
1:W:269:ASN:HA	1:W:272:HIS:CD2	2.49	0.48
1:X:484:TYR:O	1:X:524:MET:HE1	2.14	0.48
1:X:635:MET:HB2	1:e:477:ASN:HD21	1.79	0.48
1:b:246:THR:CG2	1:b:370:VAL:HG22	2.43	0.48
1:h:492:THR:HG22	1:h:494:THR:HG22	1.96	0.48
1:k:269:ASN:HA	1:k:272:HIS:CD2	2.49	0.48
1:o:484:TYR:O	1:o:524:MET:HE1	2.14	0.48
1:p:484:TYR:O	1:p:524:MET:HE1	2.14	0.48
1:p:502:THR:O	1:p:506:ALA:HB2	2.13	0.48
1:q:497:ASN:ND2	1:s:590:ASP:OD1	2.44	0.48
1:u:481:GLY:HA3	1:u:607:TRP:HB3	1.95	0.48
1:z:481:GLY:HA3	1:z:607:TRP:HB3	1.95	0.48
1:3:269:ASN:HA	1:3:272:HIS:CD2	2.49	0.48
1:3:502:THR:O	1:3:506:ALA:HB2	2.13	0.48
1:5:484:TYR:O	1:5:524:MET:HE1	2.14	0.48
1:8:257:TYR:OH	1:8:397:GLU:OE1	2.23	0.48
1:A:246:THR:CG2	1:A:370:VAL:HG22	2.43	0.48
1:A:481:GLY:HA3	1:A:607:TRP:HB3	1.95	0.48
1:C:284:ASP:O	1:C:362:CYS:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:477:ASN:HD21	1:b:635:MET:HB2	1.79	0.48
1:K:714:THR:HG21	1:L:276:TYR:OH	2.14	0.48
1:O:477:ASN:HD21	1:m:635:MET:HB2	1.78	0.48
1:R:477:ASN:HD21	1:S:635:MET:HB2	1.78	0.48
1:R:497:ASN:ND2	1:U:590:ASP:OD1	2.44	0.48
1:V:484:TYR:O	1:V:524:MET:HE1	2.14	0.48
1:W:246:THR:CG2	1:W:370:VAL:HG22	2.43	0.48
1:W:481:GLY:HA3	1:W:607:TRP:HB3	1.95	0.48
1:Z:246:THR:CG2	1:Z:370:VAL:HG22	2.43	0.48
1:a:502:THR:O	1:a:506:ALA:HB2	2.13	0.48
1:a:528:LYS:NZ	1:a:575:GLU:OE2	2.38	0.48
1:c:269:ASN:HA	1:c:272:HIS:CD2	2.49	0.48
1:c:284:ASP:O	1:c:362:CYS:HA	2.13	0.48
1:c:477:ASN:HD21	1:o:635:MET:HB2	1.79	0.48
1:e:269:ASN:HA	1:e:272:HIS:CD2	2.49	0.48
1:e:284:ASP:O	1:e:362:CYS:HA	2.13	0.48
1:q:635:MET:HB2	1:s:477:ASN:HD21	1.78	0.48
1:r:502:THR:O	1:r:506:ALA:HB2	2.13	0.48
1:u:269:ASN:HA	1:u:272:HIS:CD2	2.49	0.48
1:v:246:THR:CG2	1:v:370:VAL:HG22	2.43	0.48
1:v:481:GLY:HA3	1:v:607:TRP:HB3	1.95	0.48
1:v:714:THR:HG21	1:w:276:TYR:OH	2.14	0.48
1:x:484:TYR:O	1:x:524:MET:HE1	2.14	0.48
1:y:481:GLY:HA3	1:y:607:TRP:HB3	1.95	0.48
1:z:276:TYR:OH	1:4:714:THR:HG21	2.14	0.48
1:z:492:THR:HG22	1:z:494:THR:HG22	1.96	0.48
1:2:284:ASP:O	1:2:362:CYS:HA	2.13	0.48
1:6:269:ASN:HA	1:6:272:HIS:CD2	2.49	0.48
1:A:714:THR:HG21	1:E:276:TYR:OH	2.14	0.47
1:B:528:LYS:NZ	1:B:575:GLU:OE2	2.38	0.47
1:B:565:GLU:HG3	1:J:390:ARG:NH1	2.29	0.47
1:B:635:MET:HB2	1:L:477:ASN:HD21	1.78	0.47
1:I:269:ASN:HA	1:I:272:HIS:CD2	2.49	0.47
1:J:492:THR:HG22	1:J:494:THR:HG22	1.96	0.47
1:L:492:THR:HG22	1:L:494:THR:HG22	1.96	0.47
1:M:390:ARG:NH1	1:b:565:GLU:HG3	2.29	0.47
1:N:477:ASN:HD21	1:P:635:MET:HB2	1.78	0.47
1:O:635:MET:HB2	1:n:477:ASN:HD21	1.78	0.47
1:P:714:THR:HG21	1:Q:276:TYR:OH	2.14	0.47
1:R:276:TYR:OH	1:V:714:THR:HG21	2.15	0.47
1:V:269:ASN:HA	1:V:272:HIS:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:492:THR:HG22	1:X:494:THR:HG22	1.96	0.47
1:a:269:ASN:HA	1:a:272:HIS:CD2	2.49	0.47
1:a:447:ASN:HD22	1:8:552:ASN:ND2	2.09	0.47
1:b:502:THR:O	1:b:506:ALA:HB2	2.13	0.47
1:c:484:TYR:O	1:c:524:MET:HE1	2.14	0.47
1:f:246:THR:CG2	1:f:370:VAL:HG22	2.43	0.47
1:f:477:ASN:HD21	1:h:635:MET:HB2	1.79	0.47
1:j:714:THR:HG21	1:x:276:TYR:OH	2.14	0.47
1:p:714:THR:HG21	1:q:276:TYR:OH	2.15	0.47
1:y:269:ASN:HA	1:y:272:HIS:CD2	2.49	0.47
1:z:497:ASN:ND2	1:2:590:ASP:OD1	2.43	0.47
1:2:492:THR:HG22	1:2:494:THR:HG22	1.96	0.47
1:6:246:THR:CG2	1:6:370:VAL:HG22	2.43	0.47
1:6:477:ASN:HD21	1:7:635:MET:HB2	1.78	0.47
1:8:246:THR:CG2	1:8:370:VAL:HG22	2.43	0.47
1:F:257:TYR:OH	1:F:397:GLU:OE1	2.23	0.47
1:F:269:ASN:HA	1:F:272:HIS:CD2	2.49	0.47
1:F:481:GLY:HA3	1:F:607:TRP:HB3	1.95	0.47
1:K:276:TYR:OH	1:7:714:THR:HG21	2.14	0.47
1:N:257:TYR:OH	1:N:397:GLU:OE1	2.23	0.47
1:O:269:ASN:HA	1:O:272:HIS:CD2	2.49	0.47
1:S:257:TYR:OH	1:S:397:GLU:OE1	2.23	0.47
1:T:635:MET:HB2	1:l:477:ASN:HD21	1.78	0.47
1:W:477:ASN:HD21	1:Y:635:MET:HB2	1.78	0.47
1:X:276:TYR:OH	1:f:714:THR:HG21	2.14	0.47
1:X:390:ARG:NH1	1:e:565:GLU:HG3	2.29	0.47
1:b:714:THR:HG21	1:o:276:TYR:OH	2.14	0.47
1:c:246:THR:CG2	1:c:370:VAL:HG22	2.43	0.47
1:c:565:GLU:HG3	1:o:390:ARG:NH1	2.29	0.47
1:d:477:ASN:HD21	1:l:635:MET:HB2	1.78	0.47
1:d:481:GLY:HA3	1:d:607:TRP:HB3	1.95	0.47
1:e:246:THR:CG2	1:e:370:VAL:HG22	2.43	0.47
1:e:484:TYR:O	1:e:524:MET:HE1	2.14	0.47
1:f:502:THR:O	1:f:506:ALA:HB2	2.13	0.47
1:i:257:TYR:OH	1:i:397:GLU:OE1	2.23	0.47
1:i:477:ASN:HD21	1:j:635:MET:HB2	1.78	0.47
1:i:502:THR:O	1:i:506:ALA:HB2	2.13	0.47
1:n:257:TYR:OH	1:n:397:GLU:OE1	2.23	0.47
1:n:481:GLY:HA3	1:n:607:TRP:HB3	1.95	0.47
1:o:492:THR:HG22	1:o:494:THR:HG22	1.96	0.47
1:q:477:ASN:HD21	1:r:635:MET:HB2	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:276:TYR:OH	1:x:714:THR:HG21	2.14	0.47
1:t:390:ARG:NH1	1:v:565:GLU:HG3	2.29	0.47
1:t:492:THR:HG22	1:t:494:THR:HG22	1.96	0.47
1:u:492:THR:HG22	1:u:494:THR:HG22	1.96	0.47
1:5:246:THR:CG2	1:5:370:VAL:HG22	2.43	0.47
1:6:481:GLY:HA3	1:6:607:TRP:HB3	1.95	0.47
1:8:484:TYR:O	1:8:524:MET:HE1	2.14	0.47
1:A:565:GLU:HG3	1:G:390:ARG:NH1	2.29	0.47
1:C:276:TYR:OH	1:D:714:THR:HG21	2.14	0.47
1:F:276:TYR:OH	1:R:714:THR:HG21	2.15	0.47
1:G:246:THR:CG2	1:G:370:VAL:HG22	2.43	0.47
1:G:492:THR:HG22	1:G:494:THR:HG22	1.96	0.47
1:H:246:THR:CG2	1:H:370:VAL:HG22	2.43	0.47
1:H:276:TYR:OH	1:Z:714:THR:HG21	2.15	0.47
1:H:714:THR:HG21	1:I:276:TYR:OH	2.14	0.47
1:M:246:THR:CG2	1:M:370:VAL:HG22	2.43	0.47
1:Q:714:THR:HG21	1:S:276:TYR:OH	2.14	0.47
1:Y:714:THR:HG21	1:4:276:TYR:OH	2.15	0.47
1:Z:390:ARG:NH1	1:3:565:GLU:HG3	2.30	0.47
1:f:635:MET:HB2	1:g:477:ASN:HD21	1.79	0.47
1:l:269:ASN:HA	1:l:272:HIS:CD2	2.49	0.47
1:o:269:ASN:HA	1:o:272:HIS:CD2	2.49	0.47
1:o:714:THR:HG21	1:7:276:TYR:OH	2.14	0.47
1:p:269:ASN:HA	1:p:272:HIS:CD2	2.49	0.47
1:q:269:ASN:HA	1:q:272:HIS:CD2	2.49	0.47
1:q:714:THR:HG21	1:y:276:TYR:OH	2.15	0.47
1:t:246:THR:CG2	1:t:370:VAL:HG22	2.43	0.47
1:u:276:TYR:OH	1:5:714:THR:HG21	2.14	0.47
1:y:246:THR:CG2	1:y:370:VAL:HG22	2.43	0.47
1:z:477:ASN:HD21	1:1:635:MET:HB2	1.78	0.47
1:z:484:TYR:O	1:z:524:MET:HE1	2.14	0.47
1:2:269:ASN:HA	1:2:272:HIS:CD2	2.49	0.47
1:3:390:ARG:NH1	1:4:565:GLU:HG3	2.30	0.47
1:3:528:LYS:NZ	1:3:575:GLU:OE2	2.38	0.47
1:5:276:TYR:OH	1:8:714:THR:HG21	2.15	0.47
1:C:565:GLU:HG3	1:b:390:ARG:NH1	2.30	0.47
1:H:635:MET:HB2	1:Y:477:ASN:HD21	1.78	0.47
1:I:492:THR:HG22	1:I:494:THR:HG22	1.96	0.47
1:J:269:ASN:HA	1:J:272:HIS:CD2	2.49	0.47
1:J:590:ASP:OD1	1:L:497:ASN:ND2	2.43	0.47
1:K:565:GLU:HG3	1:a:390:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:484:TYR:O	1:L:524:MET:HE1	2.14	0.47
1:M:502:THR:O	1:M:506:ALA:HB2	2.13	0.47
1:N:502:THR:O	1:N:506:ALA:HB2	2.13	0.47
1:O:390:ARG:NH1	1:n:565:GLU:HG3	2.29	0.47
1:X:269:ASN:HA	1:X:272:HIS:CD2	2.49	0.47
1:X:714:THR:HG21	1:Y:276:TYR:OH	2.14	0.47
1:d:565:GLU:HG3	1:l:390:ARG:NH1	2.29	0.47
1:f:390:ARG:NH1	1:g:565:GLU:HG3	2.30	0.47
1:g:276:TYR:OH	1:k:714:THR:HG21	2.14	0.47
1:h:246:THR:CG2	1:h:370:VAL:HG22	2.43	0.47
1:k:502:THR:O	1:k:506:ALA:HB2	2.13	0.47
1:l:502:THR:O	1:l:506:ALA:HB2	2.13	0.47
1:w:502:THR:O	1:w:506:ALA:HB2	2.13	0.47
1:x:528:LYS:NZ	1:x:575:GLU:OE2	2.38	0.47
1:1:502:THR:O	1:1:506:ALA:HB2	2.13	0.47
1:5:284:ASP:O	1:5:362:CYS:HA	2.13	0.47
1:5:502:THR:O	1:5:506:ALA:HB2	2.13	0.47
1:B:502:THR:O	1:B:506:ALA:HB2	2.13	0.47
1:D:502:THR:O	1:D:506:ALA:HB2	2.13	0.47
1:E:492:THR:HG22	1:E:494:THR:HG22	1.96	0.47
1:F:246:THR:CG2	1:F:370:VAL:HG22	2.43	0.47
1:R:269:ASN:HA	1:R:272:HIS:CD2	2.49	0.47
1:U:492:THR:HG22	1:U:494:THR:HG22	1.96	0.47
1:Z:484:TYR:O	1:Z:524:MET:HE1	2.14	0.47
1:a:477:ASN:HD21	1:8:635:MET:HB2	1.79	0.47
1:a:565:GLU:HG3	1:8:390:ARG:NH1	2.30	0.47
1:f:565:GLU:HG3	1:h:390:ARG:NH1	2.29	0.47
1:g:635:MET:HB2	1:h:477:ASN:HD21	1.78	0.47
1:m:246:THR:CG2	1:m:370:VAL:HG22	2.43	0.47
1:t:635:MET:HB2	1:v:477:ASN:HD21	1.79	0.47
1:t:714:THR:HG21	1:6:276:TYR:OH	2.15	0.47
1:w:492:THR:HG22	1:w:494:THR:HG22	1.96	0.47
1:1:528:LYS:NZ	1:1:575:GLU:OE2	2.38	0.47
1:A:484:TYR:O	1:A:524:MET:HE1	2.14	0.47
1:E:502:THR:O	1:E:506:ALA:HB2	2.13	0.47
1:G:714:THR:HG21	1:W:276:TYR:OH	2.15	0.47
1:H:284:ASP:O	1:H:362:CYS:HA	2.13	0.47
1:H:492:THR:HG22	1:H:494:THR:HG22	1.96	0.47
1:H:502:THR:O	1:H:506:ALA:HB2	2.13	0.47
1:J:481:GLY:HA3	1:J:607:TRP:HB3	1.95	0.47
1:N:565:GLU:HG3	1:P:390:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:628:HIS:HE1	1:N:641:LYS:HZ3	1.61	0.47
1:O:484:TYR:O	1:O:524:MET:HE1	2.14	0.47
1:O:502:THR:O	1:O:506:ALA:HB2	2.13	0.47
1:R:484:TYR:O	1:R:524:MET:HE1	2.14	0.47
1:T:246:THR:CG2	1:T:370:VAL:HG22	2.43	0.47
1:U:484:TYR:O	1:U:524:MET:HE1	2.14	0.47
1:Z:276:TYR:OH	1:a:714:THR:HG21	2.14	0.47
1:Z:565:GLU:HG3	1:4:390:ARG:NH1	2.30	0.47
1:a:484:TYR:O	1:a:524:MET:HE1	2.14	0.47
1:b:484:TYR:O	1:b:524:MET:HE1	2.14	0.47
1:c:390:ARG:NH1	1:p:565:GLU:HG3	2.30	0.47
1:d:269:ASN:HA	1:d:272:HIS:CD2	2.48	0.47
1:e:714:THR:HG21	1:h:276:TYR:OH	2.14	0.47
1:g:628:HIS:HE1	1:g:641:LYS:HZ3	1.63	0.47
1:h:502:THR:O	1:h:506:ALA:HB2	2.13	0.47
1:i:565:GLU:HG3	1:j:390:ARG:NH1	2.30	0.47
1:q:484:TYR:O	1:q:524:MET:HE1	2.14	0.47
1:s:492:THR:HG22	1:s:494:THR:HG22	1.96	0.47
1:t:484:TYR:O	1:t:524:MET:HE1	2.14	0.47
1:2:481:GLY:HA3	1:2:607:TRP:HB3	1.95	0.47
1:2:484:TYR:O	1:2:524:MET:HE1	2.14	0.47
1:5:635:MET:HB2	1:7:477:ASN:HD21	1.78	0.47
1:A:477:ASN:HD21	1:G:635:MET:HB2	1.79	0.47
1:B:441:GLN:OE1	1:B:475:PRO:HD2	2.15	0.47
1:C:575:GLU:HG2	1:M:584:PHE:CZ	2.49	0.47
1:C:628:HIS:HE1	1:C:641:LYS:HZ3	1.63	0.47
1:C:635:MET:HB2	1:M:477:ASN:HD21	1.79	0.47
1:D:276:TYR:OH	1:E:714:THR:HG21	2.15	0.47
1:D:565:GLU:HG3	1:N:390:ARG:NH1	2.30	0.47
1:E:257:TYR:OH	1:E:397:GLU:OE1	2.23	0.47
1:F:714:THR:HG21	1:G:276:TYR:OH	2.14	0.47
1:G:441:GLN:OE1	1:G:475:PRO:HD2	2.15	0.47
1:G:484:TYR:O	1:G:524:MET:HE1	2.14	0.47
1:I:257:TYR:OH	1:I:397:GLU:OE1	2.23	0.47
1:J:484:TYR:O	1:J:524:MET:HE1	2.14	0.47
1:K:390:ARG:NH1	1:8:565:GLU:HG3	2.30	0.47
1:L:246:THR:CG2	1:L:370:VAL:HG22	2.43	0.47
1:L:441:GLN:OE1	1:L:475:PRO:HD2	2.15	0.47
1:N:484:TYR:O	1:N:524:MET:HE1	2.14	0.47
1:S:441:GLN:OE1	1:S:475:PRO:HD2	2.15	0.47
1:S:565:GLU:HG3	1:U:390:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:694:ARG:HD3	1:S:698:GLU:OE2	2.15	0.47
1:V:276:TYR:OH	1:W:714:THR:HG21	2.14	0.47
1:V:477:ASN:HD21	1:e:635:MET:HB2	1.79	0.47
1:V:565:GLU:HG3	1:e:390:ARG:NH1	2.30	0.47
1:V:635:MET:HB2	1:X:477:ASN:HD21	1.78	0.47
1:W:492:THR:HG22	1:W:494:THR:HG22	1.96	0.47
1:Y:481:GLY:HA3	1:Y:607:TRP:HB3	1.95	0.47
1:Y:484:TYR:O	1:Y:524:MET:HE1	2.14	0.47
1:Z:635:MET:HB2	1:3:477:ASN:HD21	1.79	0.47
1:b:481:GLY:HA3	1:b:607:TRP:HB3	1.95	0.47
1:f:276:TYR:OH	1:z:714:THR:HG21	2.15	0.47
1:f:481:GLY:HA3	1:f:607:TRP:HB3	1.95	0.47
1:f:484:TYR:O	1:f:524:MET:HE1	2.14	0.47
1:g:484:TYR:O	1:g:524:MET:HE1	2.14	0.47
1:i:484:TYR:O	1:i:524:MET:HE1	2.14	0.47
1:i:628:HIS:HE1	1:i:641:LYS:HZ3	1.61	0.47
1:k:276:TYR:OH	1:w:714:THR:HG21	2.15	0.47
1:k:492:THR:HG22	1:k:494:THR:HG22	1.96	0.47
1:l:276:TYR:OH	1:n:714:THR:HG21	2.14	0.47
1:l:484:TYR:O	1:l:524:MET:HE1	2.14	0.47
1:m:477:ASN:HD21	1:n:635:MET:HB2	1.79	0.47
1:m:565:GLU:HG3	1:n:390:ARG:NH1	2.30	0.47
1:n:269:ASN:HA	1:n:272:HIS:CD2	2.48	0.47
1:n:354:VAL:H	1:n:646:GLN:HE22	1.58	0.47
1:r:257:TYR:OH	1:r:397:GLU:OE1	2.23	0.47
1:r:694:ARG:HD3	1:r:698:GLU:OE2	2.15	0.47
1:s:484:TYR:O	1:s:524:MET:HE1	2.14	0.47
1:t:276:TYR:OH	1:y:714:THR:HG21	2.14	0.47
1:t:441:GLN:OE1	1:t:475:PRO:HD2	2.15	0.47
1:v:484:TYR:O	1:v:524:MET:HE1	2.14	0.47
1:z:246:THR:CG2	1:z:370:VAL:HG22	2.43	0.47
1:z:441:GLN:OE1	1:z:475:PRO:HD2	2.15	0.47
1:3:441:GLN:OE1	1:3:475:PRO:HD2	2.15	0.47
1:3:484:TYR:O	1:3:524:MET:HE1	2.14	0.47
1:3:714:THR:HG21	1:8:276:TYR:OH	2.14	0.47
1:5:441:GLN:OE1	1:5:475:PRO:HD2	2.15	0.47
1:5:492:THR:HG22	1:5:494:THR:HG22	1.96	0.47
1:6:492:THR:HG22	1:6:494:THR:HG22	1.96	0.47
1:7:481:GLY:HA3	1:7:607:TRP:HB3	1.95	0.47
1:7:484:TYR:O	1:7:524:MET:HE1	2.14	0.47
1:B:246:THR:CG2	1:B:370:VAL:HG22	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:441:GLN:OE1	1:C:475:PRO:HD2	2.15	0.47
1:C:484:TYR:O	1:C:524:MET:HE1	2.14	0.47
1:D:441:GLN:OE1	1:D:475:PRO:HD2	2.15	0.47
1:D:492:THR:HG22	1:D:494:THR:HG22	1.96	0.47
1:J:565:GLU:HG3	1:L:390:ARG:NH1	2.29	0.47
1:O:276:TYR:OH	1:d:714:THR:HG21	2.14	0.47
1:Q:694:ARG:HD3	1:Q:698:GLU:OE2	2.15	0.47
1:S:484:TYR:O	1:S:524:MET:HE1	2.14	0.47
1:T:390:ARG:NH1	1:l:565:GLU:HG3	2.30	0.47
1:T:477:ASN:HD21	1:d:635:MET:HB2	1.79	0.47
1:T:565:GLU:HG3	1:d:390:ARG:NH1	2.30	0.47
1:X:257:TYR:OH	1:X:397:GLU:OE1	2.23	0.47
1:X:694:ARG:HD3	1:X:698:GLU:OE2	2.15	0.47
1:a:441:GLN:OE1	1:a:475:PRO:HD2	2.15	0.47
1:b:441:GLN:OE1	1:b:475:PRO:HD2	2.15	0.47
1:c:635:MET:HB2	1:p:477:ASN:HD21	1.79	0.47
1:d:441:GLN:OE1	1:d:475:PRO:HD2	2.15	0.47
1:f:441:GLN:OE1	1:f:475:PRO:HD2	2.15	0.47
1:g:441:GLN:OE1	1:g:475:PRO:HD2	2.15	0.47
1:h:441:GLN:OE1	1:h:475:PRO:HD2	2.15	0.47
1:h:714:THR:HG21	1:i:276:TYR:OH	2.14	0.47
1:i:390:ARG:NH1	1:k:565:GLU:HG3	2.30	0.47
1:j:694:ARG:HD3	1:j:698:GLU:OE2	2.15	0.47
1:k:441:GLN:OE1	1:k:475:PRO:HD2	2.15	0.47
1:n:441:GLN:OE1	1:n:475:PRO:HD2	2.15	0.47
1:n:492:THR:HG22	1:n:494:THR:HG22	1.96	0.47
1:o:477:ASN:HD21	1:p:635:MET:HB2	1.78	0.47
1:o:694:ARG:HD3	1:o:698:GLU:OE2	2.15	0.47
1:p:276:TYR:OH	1:6:714:THR:HG21	2.14	0.47
1:r:441:GLN:OE1	1:r:475:PRO:HD2	2.15	0.47
1:r:484:TYR:O	1:r:524:MET:HE1	2.14	0.47
1:r:565:GLU:HG3	1:s:390:ARG:NH1	2.29	0.47
1:u:714:THR:HG21	1:2:276:TYR:OH	2.14	0.47
1:w:441:GLN:OE1	1:w:475:PRO:HD2	2.15	0.47
1:x:565:GLU:HG3	1:y:390:ARG:NH1	2.30	0.47
1:x:694:ARG:HD3	1:x:698:GLU:OE2	2.15	0.47
1:1:441:GLN:OE1	1:1:475:PRO:HD2	2.15	0.47
1:E:441:GLN:OE1	1:E:475:PRO:HD2	2.15	0.47
1:F:390:ARG:NH1	1:Q:565:GLU:HG3	2.30	0.47
1:F:484:TYR:O	1:F:524:MET:HE1	2.14	0.47
1:H:441:GLN:OE1	1:H:475:PRO:HD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:441:GLN:OE1	1:I:475:PRO:HD2	2.15	0.47
1:I:714:THR:HG21	1:J:276:TYR:OH	2.14	0.47
1:L:714:THR:HG21	1:b:276:TYR:OH	2.15	0.47
1:M:441:GLN:OE1	1:M:475:PRO:HD2	2.15	0.47
1:O:565:GLU:HG3	1:m:390:ARG:NH1	2.30	0.47
1:P:694:ARG:HD3	1:P:698:GLU:OE2	2.15	0.47
1:R:390:ARG:NH1	1:U:565:GLU:HG3	2.30	0.47
1:a:694:ARG:HD3	1:a:698:GLU:OE2	2.15	0.47
1:d:492:THR:HG22	1:d:494:THR:HG22	1.96	0.47
1:e:492:THR:HG22	1:e:494:THR:HG22	1.96	0.47
1:j:477:ASN:HD21	1:k:635:MET:HB2	1.79	0.47
1:q:390:ARG:NH1	1:s:565:GLU:HG3	2.30	0.47
1:u:441:GLN:OE1	1:u:475:PRO:HD2	2.15	0.47
1:w:565:GLU:HG3	1:x:390:ARG:NH1	2.30	0.47
1:z:390:ARG:NH1	1:2:565:GLU:HG3	2.29	0.47
1:3:694:ARG:HD3	1:3:698:GLU:OE2	2.15	0.47
1:A:590:ASP:OD1	1:G:497:ASN:ND2	2.43	0.47
1:D:477:ASN:HD21	1:N:635:MET:HB2	1.78	0.47
1:D:635:MET:HB2	1:P:477:ASN:HD21	1.79	0.47
1:E:565:GLU:HG3	1:Q:390:ARG:NH1	2.30	0.47
1:H:565:GLU:HG3	1:W:390:ARG:NH1	2.30	0.47
1:L:694:ARG:HD3	1:L:698:GLU:OE2	2.15	0.47
1:O:694:ARG:HD3	1:O:698:GLU:OE2	2.15	0.47
1:O:714:THR:HG21	1:P:276:TYR:OH	2.15	0.47
1:c:441:GLN:OE1	1:c:475:PRO:HD2	2.15	0.47
1:c:492:THR:HG22	1:c:494:THR:HG22	1.96	0.47
1:c:694:ARG:HD3	1:c:698:GLU:OE2	2.15	0.47
1:d:354:VAL:H	1:d:646:GLN:HE22	1.58	0.47
1:e:441:GLN:OE1	1:e:475:PRO:HD2	2.15	0.47
1:e:694:ARG:HD3	1:e:698:GLU:OE2	2.15	0.47
1:i:441:GLN:OE1	1:i:475:PRO:HD2	2.15	0.47
1:i:635:MET:HB2	1:k:477:ASN:HD21	1.78	0.47
1:l:694:ARG:HD3	1:l:698:GLU:OE2	2.15	0.47
1:t:497:ASN:ND2	1:v:590:ASP:OD1	2.43	0.47
1:w:390:ARG:NH1	1:y:565:GLU:HG3	2.29	0.47
1:y:484:TYR:O	1:y:524:MET:HE1	2.14	0.47
1:z:694:ARG:HD3	1:z:698:GLU:OE2	2.15	0.47
1:1:246:THR:CG2	1:1:370:VAL:HG22	2.43	0.47
1:3:492:THR:HG22	1:3:494:THR:HG22	1.96	0.47
1:5:565:GLU:HG3	1:6:390:ARG:NH1	2.30	0.47
1:H:694:ARG:HD3	1:H:698:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:694:ARG:HD3	1:M:698:GLU:OE2	2.15	0.46
1:N:441:GLN:OE1	1:N:475:PRO:HD2	2.15	0.46
1:Q:528:LYS:NZ	1:Q:575:GLU:OE2	2.38	0.46
1:S:714:THR:HG21	1:d:276:TYR:OH	2.15	0.46
1:T:276:TYR:OH	1:i:714:THR:HG21	2.15	0.46
1:V:694:ARG:HD3	1:V:698:GLU:OE2	2.15	0.46
1:h:694:ARG:HD3	1:h:698:GLU:OE2	2.15	0.46
1:i:694:ARG:HD3	1:i:698:GLU:OE2	2.15	0.46
1:l:441:GLN:OE1	1:l:475:PRO:HD2	2.15	0.46
1:o:565:GLU:HG3	1:p:390:ARG:NH1	2.30	0.46
1:p:694:ARG:HD3	1:p:698:GLU:OE2	2.15	0.46
1:w:257:TYR:OH	1:w:397:GLU:OE1	2.23	0.46
1:2:246:THR:CG2	1:2:370:VAL:HG22	2.43	0.46
1:5:694:ARG:HD3	1:5:698:GLU:OE2	2.15	0.46
1:A:441:GLN:OE1	1:A:475:PRO:HD2	2.15	0.46
1:C:694:ARG:HD3	1:C:698:GLU:OE2	2.15	0.46
1:E:390:ARG:NH1	1:F:565:GLU:HG3	2.29	0.46
1:E:599:MET:HE1	1:Q:598:ALA:HB1	1.98	0.46
1:F:694:ARG:HD3	1:F:698:GLU:OE2	2.15	0.46
1:H:390:ARG:NH1	1:Y:565:GLU:HG3	2.30	0.46
1:N:694:ARG:HD3	1:N:698:GLU:OE2	2.15	0.46
1:N:714:THR:HG21	1:m:276:TYR:OH	2.14	0.46
1:O:441:GLN:OE1	1:O:475:PRO:HD2	2.15	0.46
1:P:441:GLN:OE1	1:P:475:PRO:HD2	2.15	0.46
1:R:565:GLU:HG3	1:S:390:ARG:NH1	2.29	0.46
1:W:441:GLN:OE1	1:W:475:PRO:HD2	2.15	0.46
1:W:599:MET:HE1	1:Y:598:ALA:HB1	1.98	0.46
1:b:694:ARG:HD3	1:b:698:GLU:OE2	2.15	0.46
1:g:694:ARG:HD3	1:g:698:GLU:OE2	2.15	0.46
1:j:276:TYR:OH	1:l:714:THR:HG21	2.15	0.46
1:j:492:THR:HG22	1:j:494:THR:HG22	1.96	0.46
1:m:694:ARG:HD3	1:m:698:GLU:OE2	2.15	0.46
1:q:565:GLU:HG3	1:r:390:ARG:NH1	2.29	0.46
1:v:441:GLN:OE1	1:v:475:PRO:HD2	2.15	0.46
1:w:599:MET:HE1	1:x:598:ALA:HB1	1.98	0.46
1:6:441:GLN:OE1	1:6:475:PRO:HD2	2.15	0.46
1:C:257:TYR:OH	1:C:397:GLU:OE1	2.23	0.46
1:C:517:ILE:HD12	1:M:473:VAL:HG12	1.97	0.46
1:E:635:MET:HB2	1:F:477:ASN:HD21	1.79	0.46
1:J:246:THR:CG2	1:J:370:VAL:HG22	2.43	0.46
1:J:694:ARG:HD3	1:J:698:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:492:THR:HG22	1:P:494:THR:HG22	1.96	0.46
1:R:694:ARG:HD3	1:R:698:GLU:OE2	2.15	0.46
1:S:628:HIS:HE1	1:S:641:LYS:HZ3	1.63	0.46
1:T:694:ARG:HD3	1:T:698:GLU:OE2	2.15	0.46
1:T:714:THR:HG21	1:U:276:TYR:OH	2.14	0.46
1:V:390:ARG:NH1	1:X:565:GLU:HG3	2.30	0.46
1:Z:694:ARG:HD3	1:Z:698:GLU:OE2	2.15	0.46
1:a:492:THR:HG22	1:a:494:THR:HG22	1.96	0.46
1:j:441:GLN:OE1	1:j:475:PRO:HD2	2.15	0.46
1:n:276:TYR:OH	1:r:714:THR:HG21	2.15	0.46
1:p:246:THR:CG2	1:p:370:VAL:HG22	2.43	0.46
1:s:441:GLN:OE1	1:s:475:PRO:HD2	2.15	0.46
1:v:276:TYR:OH	1:1:714:THR:HG21	2.15	0.46
1:y:694:ARG:HD3	1:y:698:GLU:OE2	2.15	0.46
1:5:390:ARG:NH1	1:7:565:GLU:HG3	2.30	0.46
1:6:599:MET:HE1	1:7:598:ALA:HB1	1.98	0.46
1:B:276:TYR:OH	1:C:714:THR:HG21	2.14	0.46
1:B:598:ALA:HB1	1:L:599:MET:HE1	1.98	0.46
1:F:441:GLN:OE1	1:F:475:PRO:HD2	2.15	0.46
1:T:599:MET:HE1	1:d:598:ALA:HB1	1.98	0.46
1:Y:441:GLN:OE1	1:Y:475:PRO:HD2	2.15	0.46
1:f:694:ARG:HD3	1:f:698:GLU:OE2	2.15	0.46
1:g:390:ARG:NH1	1:h:565:GLU:HG3	2.30	0.46
1:g:598:ALA:HB1	1:h:599:MET:HE1	1.97	0.46
1:g:714:THR:HG21	1:1:276:TYR:OH	2.15	0.46
1:p:492:THR:HG22	1:p:494:THR:HG22	1.96	0.46
1:q:441:GLN:OE1	1:q:475:PRO:HD2	2.15	0.46
1:q:694:ARG:HD3	1:q:698:GLU:OE2	2.15	0.46
1:y:441:GLN:OE1	1:y:475:PRO:HD2	2.15	0.46
1:z:599:MET:HE1	1:1:598:ALA:HB1	1.98	0.46
1:2:694:ARG:HD3	1:2:698:GLU:OE2	2.15	0.46
1:2:714:THR:HG21	1:3:276:TYR:OH	2.15	0.46
1:7:441:GLN:OE1	1:7:475:PRO:HD2	2.15	0.46
1:8:694:ARG:HD3	1:8:698:GLU:OE2	2.15	0.46
1:A:276:TYR:OH	1:B:714:THR:HG21	2.15	0.46
1:A:390:ARG:NH1	1:I:565:GLU:HG3	2.30	0.46
1:A:393:PHE:CG	1:B:714:THR:HG23	2.51	0.46
1:B:694:ARG:HD3	1:B:698:GLU:OE2	2.15	0.46
1:D:390:ARG:NH1	1:P:565:GLU:HG3	2.30	0.46
1:E:354:VAL:H	1:E:646:GLN:HE22	1.58	0.46
1:G:565:GLU:HG3	1:I:390:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:714:THR:HG21	1:a:276:TYR:OH	2.15	0.46
1:O:598:ALA:HB1	1:n:599:MET:HE1	1.98	0.46
1:Q:441:GLN:OE1	1:Q:475:PRO:HD2	2.15	0.46
1:R:393:PHE:CG	1:V:714:THR:HG23	2.51	0.46
1:R:441:GLN:OE1	1:R:475:PRO:HD2	2.15	0.46
1:U:441:GLN:OE1	1:U:475:PRO:HD2	2.15	0.46
1:V:246:THR:CG2	1:V:370:VAL:HG22	2.43	0.46
1:V:393:PHE:CG	1:W:714:THR:HG23	2.51	0.46
1:V:492:THR:HG22	1:V:494:THR:HG22	1.96	0.46
1:d:599:MET:HE1	1:l:598:ALA:HB1	1.98	0.46
1:g:257:TYR:OH	1:g:397:GLU:OE1	2.23	0.46
1:j:565:GLU:HG3	1:k:390:ARG:NH1	2.30	0.46
1:k:393:PHE:CG	1:w:714:THR:HG23	2.51	0.46
1:m:599:MET:HE1	1:n:598:ALA:HB1	1.98	0.46
1:m:714:THR:HG21	1:s:276:TYR:OH	2.14	0.46
1:t:565:GLU:HG3	1:u:390:ARG:NH1	2.30	0.46
1:w:635:MET:HB2	1:y:477:ASN:HD21	1.79	0.46
1:z:565:GLU:HG3	1:1:390:ARG:NH1	2.30	0.46
1:1:565:GLU:HG3	1:2:390:ARG:NH1	2.29	0.46
1:1:694:ARG:HD3	1:1:698:GLU:OE2	2.15	0.46
1:B:390:ARG:NH1	1:L:565:GLU:HG3	2.30	0.46
1:D:393:PHE:CG	1:E:714:THR:HG23	2.51	0.46
1:E:694:ARG:HD3	1:E:698:GLU:OE2	2.15	0.46
1:I:694:ARG:HD3	1:I:698:GLU:OE2	2.15	0.46
1:K:599:MET:HE1	1:a:598:ALA:HB1	1.98	0.46
1:M:598:ALA:HB1	1:b:599:MET:HE1	1.96	0.46
1:S:599:MET:HE1	1:U:598:ALA:HB1	1.98	0.46
1:U:714:THR:HG21	1:e:276:TYR:OH	2.15	0.46
1:Z:441:GLN:OE1	1:Z:475:PRO:HD2	2.15	0.46
1:p:393:PHE:CG	1:6:714:THR:HG23	2.51	0.46
1:p:714:THR:HG23	1:q:393:PHE:CG	2.51	0.46
1:r:599:MET:HE1	1:s:598:ALA:HB1	1.98	0.46
1:u:565:GLU:HG3	1:v:390:ARG:NH1	2.30	0.46
1:u:694:ARG:HD3	1:u:698:GLU:OE2	2.15	0.46
1:v:393:PHE:CG	1:1:714:THR:HG23	2.51	0.46
1:w:694:ARG:HD3	1:w:698:GLU:OE2	2.15	0.46
1:3:598:ALA:HB1	1:4:599:MET:HE1	1.98	0.46
1:7:694:ARG:HD3	1:7:698:GLU:OE2	2.15	0.46
1:D:599:MET:HE1	1:N:598:ALA:HB1	1.98	0.46
1:E:598:ALA:HB1	1:F:599:MET:HE1	1.98	0.46
1:G:599:MET:HE1	1:I:598:ALA:HB1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:714:THR:HG23	1:L:393:PHE:CG	2.51	0.46
1:L:714:THR:HG23	1:b:393:PHE:CG	2.51	0.46
1:M:497:ASN:ND2	1:b:590:ASP:OD1	2.43	0.46
1:Z:598:ALA:HB1	1:3:599:MET:HE1	1.98	0.46
1:a:599:MET:HE1	1:8:598:ALA:HB1	1.98	0.46
1:c:276:TYR:OH	1:s:714:THR:HG21	2.15	0.46
1:c:584:PHE:CZ	1:o:575:GLU:HG2	2.51	0.46
1:f:393:PHE:CG	1:z:714:THR:HG23	2.51	0.46
1:i:598:ALA:HB1	1:k:599:MET:HE1	1.98	0.46
1:j:714:THR:HG23	1:x:393:PHE:CG	2.51	0.46
1:u:393:PHE:CG	1:5:714:THR:HG23	2.51	0.46
1:w:598:ALA:HB1	1:y:599:MET:HE1	1.98	0.46
1:x:441:GLN:OE1	1:x:475:PRO:HD2	2.15	0.46
1:6:565:GLU:HG3	1:7:390:ARG:NH1	2.30	0.46
1:6:694:ARG:HD3	1:6:698:GLU:OE2	2.15	0.46
1:8:441:GLN:OE1	1:8:475:PRO:HD2	2.15	0.46
1:A:354:VAL:H	1:A:646:GLN:HE22	1.58	0.46
1:H:714:THR:HG23	1:I:393:PHE:CG	2.51	0.46
1:N:354:VAL:H	1:N:646:GLN:HE22	1.58	0.46
1:N:714:THR:HG23	1:m:393:PHE:CG	2.51	0.46
1:O:599:MET:HE1	1:m:598:ALA:HB1	1.97	0.46
1:P:714:THR:HG23	1:Q:393:PHE:CG	2.51	0.46
1:T:393:PHE:CG	1:i:714:THR:HG23	2.51	0.46
1:W:565:GLU:HG3	1:Y:390:ARG:NH1	2.30	0.46
1:W:694:ARG:HD3	1:W:698:GLU:OE2	2.15	0.46
1:X:575:GLU:HG2	1:e:584:PHE:CZ	2.51	0.46
1:Y:694:ARG:HD3	1:Y:698:GLU:OE2	2.15	0.46
1:c:598:ALA:HB1	1:p:599:MET:HE1	1.98	0.46
1:h:714:THR:HG23	1:i:393:PHE:CG	2.51	0.46
1:q:598:ALA:HB1	1:s:599:MET:HE1	1.98	0.46
1:t:599:MET:HE1	1:u:598:ALA:HB1	1.98	0.46
1:w:354:VAL:H	1:w:646:GLN:HE22	1.58	0.46
1:z:393:PHE:CG	1:4:714:THR:HG23	2.51	0.46
1:A:694:ARG:HD3	1:A:698:GLU:OE2	2.15	0.46
1:F:393:PHE:CG	1:R:714:THR:HG23	2.51	0.46
1:F:425:TYR:H	1:F:730:ARG:HG2	1.81	0.46
1:H:517:ILE:HD12	1:Y:473:VAL:HG12	1.98	0.46
1:K:517:ILE:HD12	1:8:473:VAL:HG12	1.98	0.46
1:R:473:VAL:HG12	1:S:517:ILE:HD12	1.98	0.46
1:R:598:ALA:HB1	1:U:599:MET:HE1	1.98	0.46
1:T:473:VAL:HG12	1:d:517:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:598:ALA:HB1	1:l:599:MET:HE1	1.97	0.46
1:V:599:MET:HE1	1:e:598:ALA:HB1	1.98	0.46
1:Y:302:ASN:ND2	1:Y:701:TYR:H	2.05	0.46
1:Z:473:VAL:HG12	1:4:517:ILE:HD12	1.98	0.46
1:f:590:ASP:OD1	1:h:497:ASN:ND2	2.43	0.46
1:m:441:GLN:OE1	1:m:475:PRO:HD2	2.15	0.46
1:m:473:VAL:HG12	1:n:517:ILE:HD12	1.98	0.46
1:o:441:GLN:OE1	1:o:475:PRO:HD2	2.15	0.46
1:q:473:VAL:HG12	1:r:517:ILE:HD12	1.98	0.46
1:q:714:THR:HG23	1:y:393:PHE:CG	2.51	0.46
1:y:425:TYR:H	1:y:730:ARG:HG2	1.81	0.46
1:D:598:ALA:HB1	1:P:599:MET:HE1	1.98	0.46
1:F:598:ALA:HB1	1:Q:599:MET:HE1	1.98	0.46
1:G:714:THR:HG23	1:W:393:PHE:CG	2.51	0.46
1:J:473:VAL:HG12	1:L:517:ILE:HD12	1.98	0.46
1:J:714:THR:HG23	1:a:393:PHE:CG	2.51	0.46
1:M:393:PHE:CG	1:c:714:THR:HG23	2.51	0.46
1:M:517:ILE:HD12	1:b:473:VAL:HG12	1.98	0.46
1:i:354:VAL:H	1:i:646:GLN:HE22	1.58	0.46
1:j:599:MET:HE1	1:k:598:ALA:HB1	1.98	0.46
1:o:590:ASP:OD1	1:p:497:ASN:ND2	2.44	0.46
1:t:714:THR:HG23	1:6:393:PHE:CG	2.51	0.46
1:v:694:ARG:HD3	1:v:698:GLU:OE2	2.15	0.46
1:w:473:VAL:HG12	1:x:517:ILE:HD12	1.98	0.46
1:x:599:MET:HE1	1:y:598:ALA:HB1	1.98	0.46
1:3:425:TYR:H	1:3:730:ARG:HG2	1.81	0.46
1:3:714:THR:HG23	1:8:393:PHE:CG	2.51	0.46
1:4:441:GLN:OE1	1:4:475:PRO:HD2	2.15	0.46
1:5:517:ILE:HD12	1:7:473:VAL:HG12	1.98	0.46
1:5:598:ALA:HB1	1:7:599:MET:HE1	1.98	0.46
1:A:517:ILE:HD12	1:I:473:VAL:HG12	1.98	0.45
1:E:473:VAL:HG12	1:Q:517:ILE:HD12	1.98	0.45
1:H:598:ALA:HB1	1:Y:599:MET:HE1	1.98	0.45
1:I:425:TYR:H	1:I:730:ARG:HG2	1.81	0.45
1:K:441:GLN:OE1	1:K:475:PRO:HD2	2.15	0.45
1:N:473:VAL:HG12	1:P:517:ILE:HD12	1.98	0.45
1:T:441:GLN:OE1	1:T:475:PRO:HD2	2.15	0.45
1:X:425:TYR:H	1:X:730:ARG:HG2	1.81	0.45
1:X:441:GLN:OE1	1:X:475:PRO:HD2	2.15	0.45
1:a:425:TYR:H	1:a:730:ARG:HG2	1.81	0.45
1:e:714:THR:HG23	1:h:393:PHE:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:694:ARG:HD3	1:n:698:GLU:OE2	2.15	0.45
1:o:425:TYR:H	1:o:730:ARG:HG2	1.81	0.45
1:p:441:GLN:OE1	1:p:475:PRO:HD2	2.15	0.45
1:t:393:PHE:CG	1:y:714:THR:HG23	2.51	0.45
1:x:584:PHE:CZ	1:y:575:GLU:HG2	2.51	0.45
1:z:517:ILE:HD12	1:2:473:VAL:HG12	1.98	0.45
1:2:714:THR:HG23	1:3:393:PHE:CG	2.51	0.45
1:4:694:ARG:HD3	1:4:698:GLU:OE2	2.15	0.45
1:A:473:VAL:HG12	1:G:517:ILE:HD12	1.99	0.45
1:B:599:MET:HE1	1:J:598:ALA:HB1	1.98	0.45
1:F:575:GLU:HG2	1:Q:584:PHE:CZ	2.51	0.45
1:F:714:THR:HG23	1:G:393:PHE:CG	2.51	0.45
1:H:473:VAL:HG12	1:W:517:ILE:HD12	1.98	0.45
1:I:714:THR:HG23	1:J:393:PHE:CG	2.51	0.45
1:K:694:ARG:HD3	1:K:698:GLU:OE2	2.15	0.45
1:M:714:THR:HG21	1:N:276:TYR:OH	2.16	0.45
1:O:714:THR:HG23	1:P:393:PHE:CG	2.51	0.45
1:U:694:ARG:HD3	1:U:698:GLU:OE2	2.15	0.45
1:U:714:THR:HG23	1:e:393:PHE:CG	2.51	0.45
1:c:322:LYS:HZ3	1:c:335:ASN:ND2	2.14	0.45
1:i:473:VAL:HG12	1:j:517:ILE:HD12	1.98	0.45
1:k:694:ARG:HD3	1:k:698:GLU:OE2	2.15	0.45
1:u:425:TYR:H	1:u:730:ARG:HG2	1.81	0.45
1:u:473:VAL:HG12	1:v:517:ILE:HD12	1.98	0.45
1:u:714:THR:HG23	1:2:393:PHE:CG	2.51	0.45
1:v:354:VAL:H	1:v:646:GLN:HE22	1.58	0.45
1:1:599:MET:HE1	1:2:598:ALA:HB1	1.98	0.45
1:5:575:GLU:HG2	1:7:584:PHE:CZ	2.51	0.45
1:5:599:MET:HE1	1:6:598:ALA:HB1	1.98	0.45
1:7:302:ASN:ND2	1:7:701:TYR:H	2.05	0.45
1:A:425:TYR:H	1:A:730:ARG:HG2	1.81	0.45
1:B:584:PHE:CZ	1:J:575:GLU:HG2	2.51	0.45
1:C:393:PHE:CG	1:D:714:THR:HG23	2.51	0.45
1:C:425:TYR:H	1:C:730:ARG:HG2	1.81	0.45
1:E:517:ILE:HD12	1:F:473:VAL:HG12	1.99	0.45
1:H:599:MET:HE1	1:W:598:ALA:HB1	1.98	0.45
1:K:425:TYR:H	1:K:730:ARG:HG2	1.81	0.45
1:M:714:THR:HG23	1:N:393:PHE:CG	2.51	0.45
1:O:528:LYS:NZ	1:O:575:GLU:OE2	2.38	0.45
1:O:584:PHE:CZ	1:m:575:GLU:HG2	2.51	0.45
1:P:425:TYR:H	1:P:730:ARG:HG2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:441:GLN:OE1	1:V:475:PRO:HD2	2.15	0.45
1:V:497:ASN:ND2	1:X:590:ASP:OD1	2.44	0.45
1:X:714:THR:HG23	1:Y:393:PHE:CG	2.51	0.45
1:Z:393:PHE:CG	1:a:714:THR:HG23	2.51	0.45
1:c:393:PHE:CG	1:s:714:THR:HG23	2.51	0.45
1:d:694:ARG:HD3	1:d:698:GLU:OE2	2.15	0.45
1:f:473:VAL:HG12	1:h:517:ILE:HD12	1.99	0.45
1:g:393:PHE:CG	1:k:714:THR:HG23	2.51	0.45
1:j:393:PHE:CG	1:l:714:THR:HG23	2.51	0.45
1:k:425:TYR:H	1:k:730:ARG:HG2	1.81	0.45
1:l:393:PHE:CG	1:n:714:THR:HG23	2.51	0.45
1:o:714:THR:HG23	1:7:393:PHE:CG	2.51	0.45
1:t:517:ILE:HD12	1:v:473:VAL:HG12	1.99	0.45
1:v:425:TYR:H	1:v:730:ARG:HG2	1.81	0.45
1:w:517:ILE:HD12	1:y:473:VAL:HG12	1.99	0.45
1:2:441:GLN:OE1	1:2:475:PRO:HD2	2.15	0.45
1:4:425:TYR:H	1:4:730:ARG:HG2	1.81	0.45
1:5:473:VAL:HG12	1:6:517:ILE:HD12	1.98	0.45
1:A:598:ALA:HB1	1:I:599:MET:HE1	1.98	0.45
1:C:390:ARG:NH1	1:M:565:GLU:HG3	2.31	0.45
1:C:625:THR:HA	1:M:608:GLN:HE22	1.82	0.45
1:D:694:ARG:HD3	1:D:698:GLU:OE2	2.15	0.45
1:F:517:ILE:HD12	1:Q:473:VAL:HG12	1.98	0.45
1:H:575:GLU:HG2	1:Y:584:PHE:CZ	2.51	0.45
1:J:441:GLN:OE1	1:J:475:PRO:HD2	2.15	0.45
1:T:575:GLU:HG2	1:l:584:PHE:CZ	2.51	0.45
1:X:393:PHE:CG	1:f:714:THR:HG23	2.51	0.45
1:b:714:THR:HG23	1:o:393:PHE:CG	2.51	0.45
1:g:425:TYR:H	1:g:730:ARG:HG2	1.81	0.45
1:g:575:GLU:HG2	1:h:584:PHE:CZ	2.51	0.45
1:j:425:TYR:H	1:j:730:ARG:HG2	1.82	0.45
1:l:528:LYS:NZ	1:l:575:GLU:OE2	2.38	0.45
1:s:694:ARG:HD3	1:s:698:GLU:OE2	2.15	0.45
1:z:354:VAL:H	1:z:646:GLN:HE22	1.58	0.45
1:z:528:LYS:NZ	1:z:575:GLU:OE2	2.38	0.45
1:5:393:PHE:CG	1:8:714:THR:HG23	2.51	0.45
1:D:425:TYR:H	1:D:730:ARG:HG2	1.82	0.45
1:G:473:VAL:HG12	1:I:517:ILE:HD12	1.98	0.45
1:J:425:TYR:H	1:J:730:ARG:HG2	1.81	0.45
1:J:599:MET:HE1	1:L:598:ALA:HB1	1.98	0.45
1:O:393:PHE:CG	1:d:714:THR:HG23	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:714:THR:HG23	1:U:393:PHE:CG	2.51	0.45
1:V:584:PHE:CZ	1:e:575:GLU:HG2	2.51	0.45
1:X:598:ALA:HB1	1:e:599:MET:HE1	1.98	0.45
1:c:599:MET:HE1	1:o:598:ALA:HB1	1.98	0.45
1:t:473:VAL:HG12	1:u:517:ILE:HD12	1.98	0.45
1:u:599:MET:HE1	1:v:598:ALA:HB1	1.98	0.45
1:x:473:VAL:HG12	1:y:517:ILE:HD12	1.98	0.45
1:1:584:PHE:CZ	1:2:575:GLU:HG2	2.51	0.45
1:H:393:PHE:CG	1:Z:714:THR:HG23	2.51	0.45
1:S:714:THR:HG23	1:d:393:PHE:CG	2.51	0.45
1:e:425:TYR:H	1:e:730:ARG:HG2	1.81	0.45
1:g:714:THR:HG23	1:1:393:PHE:CG	2.51	0.45
1:m:714:THR:HG23	1:s:393:PHE:CG	2.51	0.45
1:z:598:ALA:HB1	1:2:599:MET:HE1	1.98	0.45
1:2:425:TYR:H	1:2:730:ARG:HG2	1.81	0.45
1:8:425:TYR:H	1:8:730:ARG:HG2	1.81	0.45
1:B:393:PHE:CG	1:C:714:THR:HG23	2.51	0.45
1:G:425:TYR:H	1:G:730:ARG:HG2	1.81	0.45
1:G:694:ARG:HD3	1:G:698:GLU:OE2	2.15	0.45
1:K:598:ALA:HB1	1:8:599:MET:HE1	1.97	0.45
1:N:449:THR:HG21	1:P:501:PHE:CZ	2.52	0.45
1:P:285:PHE:CE1	1:P:312:LEU:HD11	2.52	0.45
1:R:517:ILE:HD12	1:U:473:VAL:HG12	1.99	0.45
1:V:517:ILE:HD12	1:X:473:VAL:HG12	1.98	0.45
1:W:425:TYR:H	1:W:730:ARG:HG2	1.81	0.45
1:Z:599:MET:HE1	1:4:598:ALA:HB1	1.97	0.45
1:c:425:TYR:H	1:c:730:ARG:HG2	1.81	0.45
1:c:575:GLU:HG2	1:p:584:PHE:CZ	2.51	0.45
1:j:285:PHE:CE1	1:j:312:LEU:HD11	2.52	0.45
1:n:393:PHE:CG	1:r:714:THR:HG23	2.51	0.45
1:o:473:VAL:HG12	1:p:517:ILE:HD12	1.98	0.45
1:t:425:TYR:H	1:t:730:ARG:HG2	1.81	0.45
1:v:714:THR:HG23	1:w:393:PHE:CG	2.51	0.45
1:6:425:TYR:H	1:6:730:ARG:HG2	1.81	0.45
1:A:714:THR:HG23	1:E:393:PHE:CG	2.51	0.45
1:B:285:PHE:CE1	1:B:312:LEU:HD11	2.52	0.45
1:C:598:ALA:HB1	1:M:599:MET:HE1	1.99	0.45
1:D:584:PHE:CZ	1:N:575:GLU:HG2	2.51	0.45
1:E:353:TYR:CE2	1:E:355:LEU:HB2	2.52	0.45
1:L:528:LYS:NZ	1:L:575:GLU:OE2	2.38	0.45
1:P:353:TYR:CE2	1:P:355:LEU:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:285:PHE:CE1	1:U:312:LEU:HD11	2.52	0.45
1:V:425:TYR:H	1:V:730:ARG:HG2	1.81	0.45
1:Z:425:TYR:H	1:Z:730:ARG:HG2	1.81	0.45
1:c:285:PHE:CE1	1:c:312:LEU:HD11	2.52	0.45
1:e:353:TYR:CE2	1:e:355:LEU:HB2	2.52	0.45
1:g:517:ILE:HD12	1:h:473:VAL:HG12	1.98	0.45
1:i:353:TYR:CE2	1:i:355:LEU:HB2	2.52	0.45
1:i:425:TYR:H	1:i:730:ARG:HG2	1.81	0.45
1:i:449:THR:HG21	1:j:501:PHE:CZ	2.52	0.45
1:p:425:TYR:H	1:p:730:ARG:HG2	1.81	0.45
1:q:517:ILE:HD12	1:s:473:VAL:HG12	1.99	0.45
1:s:285:PHE:CE1	1:s:312:LEU:HD11	2.52	0.45
1:t:694:ARG:HD3	1:t:698:GLU:OE2	2.15	0.45
1:u:285:PHE:CE1	1:u:312:LEU:HD11	2.52	0.45
1:1:285:PHE:CE1	1:1:312:LEU:HD11	2.52	0.45
1:D:517:ILE:HD12	1:P:473:VAL:HG12	1.98	0.45
1:G:285:PHE:CE1	1:G:312:LEU:HD11	2.52	0.45
1:I:285:PHE:CE1	1:I:312:LEU:HD11	2.52	0.45
1:M:353:TYR:CE2	1:M:355:LEU:HB2	2.52	0.45
1:M:625:THR:HA	1:b:608:GLN:HE22	1.82	0.45
1:N:353:TYR:CE2	1:N:355:LEU:HB2	2.52	0.45
1:R:599:MET:HE1	1:S:598:ALA:HB1	1.98	0.45
1:T:425:TYR:H	1:T:730:ARG:HG2	1.81	0.45
1:X:353:TYR:CE2	1:X:355:LEU:HB2	2.52	0.45
1:Z:497:ASN:ND2	1:3:590:ASP:OD1	2.43	0.45
1:a:353:TYR:CE2	1:a:355:LEU:HB2	2.52	0.45
1:c:353:TYR:CE2	1:c:355:LEU:HB2	2.52	0.45
1:e:285:PHE:CE1	1:e:312:LEU:HD11	2.52	0.45
1:f:599:MET:HE1	1:h:598:ALA:HB1	1.98	0.45
1:g:625:THR:HA	1:h:608:GLN:HE22	1.82	0.45
1:h:353:TYR:CE2	1:h:355:LEU:HB2	2.52	0.45
1:j:353:TYR:CE2	1:j:355:LEU:HB2	2.52	0.45
1:o:353:TYR:CE2	1:o:355:LEU:HB2	2.52	0.45
1:q:425:TYR:H	1:q:730:ARG:HG2	1.81	0.45
1:q:599:MET:HE1	1:r:598:ALA:HB1	1.98	0.45
1:t:285:PHE:CE1	1:t:312:LEU:HD11	2.52	0.45
1:w:353:TYR:CE2	1:w:355:LEU:HB2	2.52	0.45
1:6:628:HIS:HE1	1:6:641:LYS:HZ3	1.65	0.45
1:8:353:TYR:CE2	1:8:355:LEU:HB2	2.52	0.45
1:E:425:TYR:H	1:E:730:ARG:HG2	1.81	0.45
1:G:238:ARG:NH2	1:G:684:GLU:OE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:425:TYR:H	1:H:730:ARG:HG2	1.82	0.45
1:H:501:PHE:CZ	1:Y:449:THR:HG21	2.52	0.45
1:J:353:TYR:CE2	1:J:355:LEU:HB2	2.52	0.45
1:M:285:PHE:CE1	1:M:312:LEU:HD11	2.52	0.45
1:N:425:TYR:H	1:N:730:ARG:HG2	1.81	0.45
1:Q:425:TYR:H	1:Q:730:ARG:HG2	1.81	0.45
1:Q:714:THR:HG23	1:S:393:PHE:CG	2.51	0.45
1:R:425:TYR:H	1:R:730:ARG:HG2	1.81	0.45
1:T:353:TYR:CE2	1:T:355:LEU:HB2	2.52	0.45
1:U:353:TYR:CE2	1:U:355:LEU:HB2	2.52	0.45
1:V:608:GLN:HE22	1:e:625:THR:HA	1.82	0.45
1:Y:425:TYR:H	1:Y:730:ARG:HG2	1.81	0.45
1:Z:353:TYR:CE2	1:Z:355:LEU:HB2	2.52	0.45
1:c:625:THR:HA	1:p:608:GLN:HE22	1.82	0.45
1:d:425:TYR:H	1:d:730:ARG:HG2	1.81	0.45
1:f:598:ALA:HB1	1:g:599:MET:HE1	1.98	0.45
1:h:285:PHE:CE1	1:h:312:LEU:HD11	2.52	0.45
1:j:608:GLN:HE22	1:k:625:THR:HA	1.82	0.45
1:m:353:TYR:CE2	1:m:355:LEU:HB2	2.52	0.45
1:m:425:TYR:H	1:m:730:ARG:HG2	1.81	0.45
1:r:353:TYR:CE2	1:r:355:LEU:HB2	2.52	0.45
1:x:590:ASP:OD1	1:y:497:ASN:ND2	2.43	0.45
1:1:353:TYR:CE2	1:1:355:LEU:HB2	2.52	0.45
1:2:353:TYR:CE2	1:2:355:LEU:HB2	2.52	0.45
1:3:353:TYR:CE2	1:3:355:LEU:HB2	2.52	0.45
1:3:433:ARG:HD3	1:3:433:ARG:HA	1.81	0.45
1:5:501:PHE:CZ	1:7:449:THR:HG21	2.52	0.45
1:7:282:TYR:HB3	1:7:648:LEU:HD23	1.99	0.45
1:7:353:TYR:CE2	1:7:355:LEU:HB2	2.52	0.45
1:B:353:TYR:CE2	1:B:355:LEU:HB2	2.52	0.44
1:B:473:VAL:HG12	1:J:517:ILE:HD12	1.98	0.44
1:B:517:ILE:HD12	1:L:473:VAL:HG12	1.99	0.44
1:B:608:GLN:HE22	1:J:625:THR:HA	1.82	0.44
1:C:599:MET:HE1	1:b:598:ALA:HB1	1.98	0.44
1:D:302:ASN:ND2	1:D:701:TYR:H	2.05	0.44
1:D:625:THR:HA	1:P:608:GLN:HE22	1.82	0.44
1:F:282:TYR:HB3	1:F:648:LEU:HD23	2.00	0.44
1:H:285:PHE:CE1	1:H:312:LEU:HD11	2.52	0.44
1:L:285:PHE:CE1	1:L:312:LEU:HD11	2.52	0.44
1:N:282:TYR:HB3	1:N:648:LEU:HD23	2.00	0.44
1:O:473:VAL:HG12	1:m:517:ILE:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:353:TYR:CE2	1:S:355:LEU:HB2	2.52	0.44
1:S:425:TYR:H	1:S:730:ARG:HG2	1.81	0.44
1:V:353:TYR:CE2	1:V:355:LEU:HB2	2.52	0.44
1:W:608:GLN:HE22	1:Y:625:THR:HA	1.83	0.44
1:X:517:ILE:HD12	1:e:473:VAL:HG12	1.99	0.44
1:Y:282:TYR:HB3	1:Y:648:LEU:HD23	2.00	0.44
1:Y:353:TYR:CE2	1:Y:355:LEU:HB2	2.52	0.44
1:Y:714:THR:HG23	1:4:393:PHE:CG	2.51	0.44
1:Z:449:THR:HG21	1:4:501:PHE:CZ	2.52	0.44
1:Z:625:THR:HA	1:3:608:GLN:HE22	1.82	0.44
1:a:608:GLN:HE22	1:8:625:THR:HA	1.82	0.44
1:h:282:TYR:HB3	1:h:648:LEU:HD23	2.00	0.44
1:i:282:TYR:HB3	1:i:648:LEU:HD23	2.00	0.44
1:i:575:GLU:HG2	1:k:584:PHE:CZ	2.51	0.44
1:j:473:VAL:HG12	1:k:517:ILE:HD12	1.98	0.44
1:n:285:PHE:CE1	1:n:312:LEU:HD11	2.52	0.44
1:n:425:TYR:H	1:n:730:ARG:HG2	1.81	0.44
1:p:353:TYR:CE2	1:p:355:LEU:HB2	2.52	0.44
1:r:393:PHE:CG	1:x:714:THR:HG23	2.51	0.44
1:r:425:TYR:H	1:r:730:ARG:HG2	1.81	0.44
1:s:353:TYR:CE2	1:s:355:LEU:HB2	2.52	0.44
1:t:433:ARG:HD3	1:t:433:ARG:HA	1.81	0.44
1:w:425:TYR:H	1:w:730:ARG:HG2	1.81	0.44
1:x:449:THR:HG21	1:y:501:PHE:CZ	2.53	0.44
1:z:285:PHE:CE1	1:z:312:LEU:HD11	2.52	0.44
1:1:473:VAL:HG12	1:2:517:ILE:HD12	1.98	0.44
1:1:608:GLN:HE22	1:2:625:THR:HA	1.82	0.44
1:3:282:TYR:HB3	1:3:648:LEU:HD23	1.99	0.44
1:5:285:PHE:CE1	1:5:312:LEU:HD11	2.52	0.44
1:6:608:GLN:HE22	1:7:625:THR:HA	1.83	0.44
1:E:449:THR:HG21	1:Q:501:PHE:CZ	2.52	0.44
1:F:353:TYR:CE2	1:F:355:LEU:HB2	2.52	0.44
1:F:501:PHE:CZ	1:Q:449:THR:HG21	2.53	0.44
1:H:625:THR:HA	1:Y:608:GLN:HE22	1.82	0.44
1:J:354:VAL:H	1:J:646:GLN:HE22	1.58	0.44
1:K:501:PHE:CZ	1:8:449:THR:HG21	2.52	0.44
1:M:282:TYR:HB3	1:M:648:LEU:HD23	2.00	0.44
1:N:238:ARG:NH2	1:N:684:GLU:OE2	2.50	0.44
1:T:517:ILE:HD12	1:l:473:VAL:HG12	1.98	0.44
1:V:282:TYR:HB3	1:V:648:LEU:HD23	1.99	0.44
1:V:587:SER:HA	1:e:497:ASN:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:282:TYR:HB3	1:a:648:LEU:HD23	2.00	0.44
1:a:584:PHE:CZ	1:8:575:GLU:HG2	2.51	0.44
1:c:473:VAL:HG12	1:o:517:ILE:HD12	1.99	0.44
1:c:497:ASN:HA	1:p:587:SER:HA	2.00	0.44
1:d:285:PHE:CE1	1:d:312:LEU:HD11	2.52	0.44
1:d:353:TYR:CE2	1:d:355:LEU:HB2	2.52	0.44
1:f:425:TYR:H	1:f:730:ARG:HG2	1.81	0.44
1:n:353:TYR:CE2	1:n:355:LEU:HB2	2.52	0.44
1:o:449:THR:HG21	1:p:501:PHE:CZ	2.52	0.44
1:p:282:TYR:HB3	1:p:648:LEU:HD23	1.99	0.44
1:t:598:ALA:HB1	1:v:599:MET:HE1	1.98	0.44
1:x:425:TYR:H	1:x:730:ARG:HG2	1.81	0.44
1:y:282:TYR:HB3	1:y:648:LEU:HD23	2.00	0.44
1:y:285:PHE:CE1	1:y:312:LEU:HD11	2.52	0.44
1:z:473:VAL:HG12	1:1:517:ILE:HD12	1.99	0.44
1:5:425:TYR:H	1:5:730:ARG:HG2	1.81	0.44
1:5:625:THR:HA	1:7:608:GLN:HE22	1.82	0.44
1:7:425:TYR:H	1:7:730:ARG:HG2	1.81	0.44
1:A:599:MET:HE1	1:G:598:ALA:HB1	1.98	0.44
1:B:282:TYR:HB3	1:B:648:LEU:HD23	2.00	0.44
1:B:425:TYR:H	1:B:730:ARG:HG2	1.81	0.44
1:D:353:TYR:CE2	1:D:355:LEU:HB2	2.52	0.44
1:F:285:PHE:CE1	1:F:312:LEU:HD11	2.52	0.44
1:G:608:GLN:HE22	1:I:625:THR:HA	1.82	0.44
1:H:628:HIS:HE1	1:H:641:LYS:HZ3	1.63	0.44
1:K:393:PHE:CG	1:7:714:THR:HG23	2.51	0.44
1:N:599:MET:HE1	1:P:598:ALA:HB1	1.98	0.44
1:Q:285:PHE:CE1	1:Q:312:LEU:HD11	2.52	0.44
1:S:473:VAL:HG12	1:U:517:ILE:HD12	1.98	0.44
1:V:501:PHE:CZ	1:X:449:THR:HG21	2.52	0.44
1:Z:575:GLU:HG2	1:3:584:PHE:CZ	2.51	0.44
1:b:285:PHE:CE1	1:b:312:LEU:HD11	2.52	0.44
1:b:425:TYR:H	1:b:730:ARG:HG2	1.81	0.44
1:b:698:GLU:HB2	1:b:700:GLN:NE2	2.33	0.44
1:f:285:PHE:CE1	1:f:312:LEU:HD11	2.52	0.44
1:f:698:GLU:HB2	1:f:700:GLN:NE2	2.33	0.44
1:i:599:MET:HE1	1:j:598:ALA:HB1	1.98	0.44
1:p:285:PHE:CE1	1:p:312:LEU:HD11	2.52	0.44
1:u:449:THR:HG21	1:v:501:PHE:CZ	2.53	0.44
1:w:285:PHE:CE1	1:w:312:LEU:HD11	2.52	0.44
1:w:449:THR:HG21	1:x:501:PHE:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:353:TYR:CE2	1:y:355:LEU:HB2	2.52	0.44
1:1:282:TYR:HB3	1:1:648:LEU:HD23	2.00	0.44
1:7:399:PHE:N	1:7:399:PHE:HD1	2.16	0.44
1:A:501:PHE:CZ	1:I:449:THR:HG21	2.53	0.44
1:D:473:VAL:HG12	1:N:517:ILE:HD12	1.98	0.44
1:E:282:TYR:HB3	1:E:648:LEU:HD23	2.00	0.44
1:E:285:PHE:CE1	1:E:312:LEU:HD11	2.52	0.44
1:F:399:PHE:N	1:F:399:PHE:CD1	2.86	0.44
1:F:497:ASN:ND2	1:Q:590:ASP:OD1	2.43	0.44
1:G:449:THR:HG21	1:I:501:PHE:CZ	2.52	0.44
1:I:353:TYR:CE2	1:I:355:LEU:HB2	2.52	0.44
1:M:425:TYR:H	1:M:730:ARG:HG2	1.81	0.44
1:M:658:PRO:HG2	1:c:250:PRO:HB3	2.00	0.44
1:N:399:PHE:N	1:N:399:PHE:HD1	2.16	0.44
1:O:517:ILE:HD12	1:n:473:VAL:HG12	1.98	0.44
1:T:282:TYR:HB3	1:T:648:LEU:HD23	2.00	0.44
1:T:449:THR:HG21	1:d:501:PHE:CZ	2.53	0.44
1:V:285:PHE:CE1	1:V:312:LEU:HD11	2.52	0.44
1:V:598:ALA:HB1	1:X:599:MET:HE1	1.97	0.44
1:V:628:HIS:HE1	1:V:641:LYS:HZ3	1.65	0.44
1:W:698:GLU:HB2	1:W:700:GLN:NE2	2.33	0.44
1:Z:517:ILE:HD12	1:3:473:VAL:HG12	1.98	0.44
1:a:590:ASP:OD1	1:8:497:ASN:ND2	2.43	0.44
1:c:608:GLN:HE22	1:o:625:THR:HA	1.82	0.44
1:f:608:GLN:HE22	1:h:625:THR:HA	1.82	0.44
1:g:285:PHE:CE1	1:g:312:LEU:HD11	2.52	0.44
1:h:302:ASN:ND2	1:h:701:TYR:H	2.05	0.44
1:h:425:TYR:H	1:h:730:ARG:HG2	1.81	0.44
1:i:285:PHE:CE1	1:i:312:LEU:HD11	2.52	0.44
1:i:608:GLN:HE22	1:j:625:THR:HA	1.82	0.44
1:i:625:THR:HA	1:k:608:GLN:HE22	1.83	0.44
1:k:353:TYR:CE2	1:k:355:LEU:HB2	2.52	0.44
1:l:425:TYR:H	1:l:730:ARG:HG2	1.81	0.44
1:m:282:TYR:HB3	1:m:648:LEU:HD23	2.00	0.44
1:m:449:THR:HG21	1:n:501:PHE:CZ	2.53	0.44
1:o:354:VAL:H	1:o:646:GLN:HE22	1.58	0.44
1:o:599:MET:HE1	1:p:598:ALA:HB1	1.97	0.44
1:p:628:HIS:HE1	1:p:641:LYS:HZ3	1.65	0.44
1:u:353:TYR:CE2	1:u:355:LEU:HB2	2.52	0.44
1:w:282:TYR:HB3	1:w:648:LEU:HD23	2.00	0.44
1:x:285:PHE:CE1	1:x:312:LEU:HD11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:399:PHE:N	1:y:399:PHE:CD1	2.86	0.44
1:z:282:TYR:HB3	1:z:648:LEU:HD23	2.00	0.44
1:2:282:TYR:HB3	1:2:648:LEU:HD23	2.00	0.44
1:2:285:PHE:CE1	1:2:312:LEU:HD11	2.52	0.44
1:2:399:PHE:N	1:2:399:PHE:HD1	2.16	0.44
1:3:625:THR:HA	1:4:608:GLN:HE22	1.82	0.44
1:6:698:GLU:HB2	1:6:700:GLN:NE2	2.33	0.44
1:A:399:PHE:HD1	1:A:399:PHE:N	2.16	0.44
1:B:449:THR:HG21	1:J:501:PHE:CZ	2.53	0.44
1:C:285:PHE:CE1	1:C:312:LEU:HD11	2.52	0.44
1:C:353:TYR:CE2	1:C:355:LEU:HB2	2.52	0.44
1:C:354:VAL:H	1:C:646:GLN:HE22	1.58	0.44
1:D:285:PHE:CE1	1:D:312:LEU:HD11	2.52	0.44
1:D:399:PHE:N	1:D:399:PHE:CD1	2.86	0.44
1:D:608:GLN:HE22	1:N:625:THR:HA	1.83	0.44
1:E:399:PHE:N	1:E:399:PHE:CD1	2.86	0.44
1:E:528:LYS:NZ	1:E:575:GLU:OE2	2.38	0.44
1:G:353:TYR:CE2	1:G:355:LEU:HB2	2.52	0.44
1:J:282:TYR:HB3	1:J:648:LEU:HD23	2.00	0.44
1:J:285:PHE:CE1	1:J:312:LEU:HD11	2.52	0.44
1:J:399:PHE:N	1:J:399:PHE:HD1	2.16	0.44
1:K:473:VAL:HG12	1:a:517:ILE:HD12	1.98	0.44
1:K:608:GLN:HE22	1:a:625:THR:HA	1.83	0.44
1:K:698:GLU:HB2	1:K:700:GLN:NE2	2.33	0.44
1:L:282:TYR:HB3	1:L:648:LEU:HD23	2.00	0.44
1:L:399:PHE:N	1:L:399:PHE:HD1	2.16	0.44
1:L:425:TYR:H	1:L:730:ARG:HG2	1.81	0.44
1:M:501:PHE:CZ	1:b:449:THR:HG21	2.53	0.44
1:N:285:PHE:CE1	1:N:312:LEU:HD11	2.52	0.44
1:N:608:GLN:HE22	1:P:625:THR:HA	1.82	0.44
1:O:353:TYR:CE2	1:O:355:LEU:HB2	2.52	0.44
1:O:399:PHE:CD1	1:O:399:PHE:N	2.86	0.44
1:Q:698:GLU:HB2	1:Q:700:GLN:NE2	2.33	0.44
1:R:501:PHE:CZ	1:U:449:THR:HG21	2.53	0.44
1:R:625:THR:HA	1:U:608:GLN:HE22	1.82	0.44
1:T:399:PHE:N	1:T:399:PHE:HD1	2.16	0.44
1:T:501:PHE:CZ	1:l:449:THR:HG21	2.52	0.44
1:V:399:PHE:N	1:V:399:PHE:CD1	2.86	0.44
1:W:285:PHE:CE1	1:W:312:LEU:HD11	2.52	0.44
1:X:625:THR:HA	1:e:608:GLN:HE22	1.82	0.44
1:Y:399:PHE:N	1:Y:399:PHE:HD1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:433:ARG:HA	1:a:433:ARG:HD3	1.81	0.44
1:d:698:GLU:HB2	1:d:700:GLN:NE2	2.33	0.44
1:k:302:ASN:ND2	1:k:701:TYR:H	2.05	0.44
1:k:399:PHE:N	1:k:399:PHE:CD1	2.86	0.44
1:l:285:PHE:CE1	1:l:312:LEU:HD11	2.52	0.44
1:l:399:PHE:N	1:l:399:PHE:CD1	2.86	0.44
1:m:399:PHE:N	1:m:399:PHE:HD1	2.16	0.44
1:n:615:GLN:HE22	1:n:726:PRO:CA	2.30	0.44
1:n:698:GLU:HB2	1:n:700:GLN:NE2	2.33	0.44
1:p:399:PHE:N	1:p:399:PHE:CD1	2.86	0.44
1:q:501:PHE:CZ	1:s:449:THR:HG21	2.53	0.44
1:r:399:PHE:N	1:r:399:PHE:CD1	2.86	0.44
1:r:473:VAL:HG12	1:s:517:ILE:HD12	1.98	0.44
1:t:608:GLN:HE22	1:u:625:THR:HA	1.82	0.44
1:u:282:TYR:HB3	1:u:648:LEU:HD23	1.99	0.44
1:v:399:PHE:N	1:v:399:PHE:HD1	2.16	0.44
1:w:399:PHE:N	1:w:399:PHE:CD1	2.86	0.44
1:y:615:GLN:HE22	1:y:726:PRO:CA	2.30	0.44
1:z:399:PHE:N	1:z:399:PHE:HD1	2.16	0.44
1:z:425:TYR:H	1:z:730:ARG:HG2	1.81	0.44
1:1:449:THR:HG21	1:2:501:PHE:CZ	2.53	0.44
1:2:354:VAL:H	1:2:646:GLN:HE22	1.58	0.44
1:3:238:ARG:NH2	1:3:684:GLU:OE2	2.50	0.44
1:5:302:ASN:ND2	1:5:701:TYR:H	2.05	0.44
1:5:353:TYR:CE2	1:5:355:LEU:HB2	2.52	0.44
1:5:628:HIS:HE1	1:5:641:LYS:HZ3	1.63	0.44
1:6:285:PHE:CE1	1:6:312:LEU:HD11	2.52	0.44
1:8:282:TYR:HB3	1:8:648:LEU:HD23	1.99	0.44
1:A:587:SER:HA	1:G:497:ASN:HA	2.00	0.44
1:C:587:SER:HA	1:b:497:ASN:HA	2.00	0.44
1:F:615:GLN:HE22	1:F:726:PRO:CA	2.30	0.44
1:H:282:TYR:HB3	1:H:648:LEU:HD23	2.00	0.44
1:H:353:TYR:CE2	1:H:355:LEU:HB2	2.52	0.44
1:I:282:TYR:HB3	1:I:648:LEU:HD23	2.00	0.44
1:J:608:GLN:HE22	1:L:625:THR:HA	1.83	0.44
1:M:302:ASN:ND2	1:M:701:TYR:H	2.05	0.44
1:N:399:PHE:N	1:N:399:PHE:CD1	2.86	0.44
1:O:285:PHE:CE1	1:O:312:LEU:HD11	2.52	0.44
1:O:449:THR:HG21	1:m:501:PHE:CZ	2.52	0.44
1:O:608:GLN:HE22	1:m:625:THR:HA	1.82	0.44
1:P:399:PHE:N	1:P:399:PHE:HD1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:353:TYR:CE2	1:R:355:LEU:HB2	2.52	0.44
1:S:399:PHE:N	1:S:399:PHE:CD1	2.86	0.44
1:S:587:SER:HA	1:U:497:ASN:HA	2.00	0.44
1:V:354:VAL:H	1:V:646:GLN:HE22	1.58	0.44
1:W:584:PHE:CZ	1:Y:575:GLU:HG2	2.51	0.44
1:X:238:ARG:NH2	1:X:684:GLU:OE2	2.50	0.44
1:Z:282:TYR:HB3	1:Z:648:LEU:HD23	2.00	0.44
1:a:285:PHE:CE1	1:a:312:LEU:HD11	2.52	0.44
1:b:399:PHE:CD1	1:b:399:PHE:N	2.86	0.44
1:c:698:GLU:HB2	1:c:700:GLN:NE2	2.33	0.44
1:d:282:TYR:HB3	1:d:648:LEU:HD23	1.99	0.44
1:d:473:VAL:HG12	1:l:517:ILE:HD12	1.98	0.44
1:d:615:GLN:HE22	1:d:726:PRO:CA	2.30	0.44
1:e:698:GLU:HB2	1:e:700:GLN:NE2	2.33	0.44
1:f:497:ASN:HA	1:g:587:SER:HA	2.00	0.44
1:g:353:TYR:CE2	1:g:355:LEU:HB2	2.52	0.44
1:i:399:PHE:N	1:i:399:PHE:CD1	2.86	0.44
1:i:399:PHE:N	1:i:399:PHE:HD1	2.16	0.44
1:i:497:ASN:HA	1:k:587:SER:HA	2.00	0.44
1:i:517:ILE:HD12	1:k:473:VAL:HG12	1.98	0.44
1:k:285:PHE:CE1	1:k:312:LEU:HD11	2.52	0.44
1:l:353:TYR:CE2	1:l:355:LEU:HB2	2.52	0.44
1:n:282:TYR:HB3	1:n:648:LEU:HD23	1.99	0.44
1:q:575:GLU:HG2	1:s:584:PHE:CZ	2.51	0.44
1:q:625:THR:HA	1:s:608:GLN:HE22	1.82	0.44
1:t:353:TYR:CE2	1:t:355:LEU:HB2	2.52	0.44
1:t:449:THR:HG21	1:u:501:PHE:CZ	2.52	0.44
1:u:608:GLN:HE22	1:v:625:THR:HA	1.82	0.44
1:x:608:GLN:HE22	1:y:625:THR:HA	1.82	0.44
1:x:698:GLU:HB2	1:x:700:GLN:NE2	2.33	0.44
1:z:353:TYR:CE2	1:z:355:LEU:HB2	2.52	0.44
1:z:625:THR:HA	1:2:608:GLN:HE22	1.83	0.44
1:1:425:TYR:H	1:1:730:ARG:HG2	1.81	0.44
1:3:517:ILE:HD12	1:4:473:VAL:HG12	1.99	0.44
1:5:282:TYR:HB3	1:5:648:LEU:HD23	2.00	0.44
1:7:399:PHE:N	1:7:399:PHE:CD1	2.86	0.44
1:8:399:PHE:N	1:8:399:PHE:HD1	2.16	0.44
1:A:285:PHE:CE1	1:A:312:LEU:HD11	2.52	0.44
1:C:485:ARG:HD3	1:M:581:ALA:O	2.18	0.44
1:E:497:ASN:HA	1:F:587:SER:HA	2.00	0.44
1:F:625:THR:HA	1:Q:608:GLN:HE22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:302:ASN:ND2	1:H:701:TYR:H	2.05	0.44
1:H:399:PHE:N	1:H:399:PHE:CD1	2.86	0.44
1:J:584:PHE:CZ	1:L:575:GLU:HG2	2.51	0.44
1:J:698:GLU:HB2	1:J:700:GLN:NE2	2.33	0.44
1:L:353:TYR:CE2	1:L:355:LEU:HB2	2.52	0.44
1:M:399:PHE:N	1:M:399:PHE:HD1	2.16	0.44
1:O:425:TYR:H	1:O:730:ARG:HG2	1.81	0.44
1:Q:399:PHE:N	1:Q:399:PHE:CD1	2.86	0.44
1:S:285:PHE:CE1	1:S:312:LEU:HD11	2.52	0.44
1:T:625:THR:HA	1:l:608:GLN:HE22	1.82	0.44
1:Z:399:PHE:N	1:Z:399:PHE:HD1	2.16	0.44
1:Z:497:ASN:HA	1:3:587:SER:HA	2.00	0.44
1:a:238:ARG:NH2	1:a:684:GLU:OE2	2.50	0.44
1:a:399:PHE:N	1:a:399:PHE:CD1	2.86	0.44
1:a:587:SER:HA	1:8:497:ASN:HA	2.00	0.44
1:b:282:TYR:HB3	1:b:648:LEU:HD23	1.99	0.44
1:d:399:PHE:HD1	1:d:399:PHE:N	2.16	0.44
1:f:399:PHE:N	1:f:399:PHE:CD1	2.86	0.44
1:f:449:THR:HG21	1:h:501:PHE:CZ	2.53	0.44
1:j:397:GLU:OE1	1:j:397:GLU:N	2.51	0.44
1:j:399:PHE:N	1:j:399:PHE:HD1	2.16	0.44
1:n:399:PHE:N	1:n:399:PHE:HD1	2.16	0.44
1:o:608:GLN:HE22	1:p:625:THR:HA	1.82	0.44
1:q:353:TYR:CE2	1:q:355:LEU:HB2	2.52	0.44
1:r:587:SER:HA	1:s:497:ASN:HA	2.00	0.44
1:t:497:ASN:HA	1:v:587:SER:HA	2.00	0.44
1:w:497:ASN:HA	1:y:587:SER:HA	2.00	0.44
1:x:399:PHE:N	1:x:399:PHE:CD1	2.86	0.44
1:x:628:HIS:HE1	1:x:641:LYS:HZ3	1.66	0.44
1:z:575:GLU:HG2	1:2:584:PHE:CZ	2.51	0.44
1:1:302:ASN:ND2	1:1:701:TYR:H	2.05	0.44
1:2:698:GLU:HB2	1:2:700:GLN:NE2	2.33	0.44
1:3:285:PHE:CE1	1:3:312:LEU:HD11	2.52	0.44
1:4:285:PHE:CE1	1:4:312:LEU:HD11	2.52	0.44
1:5:399:PHE:N	1:5:399:PHE:CD1	2.86	0.44
1:6:399:PHE:N	1:6:399:PHE:CD1	2.86	0.44
1:6:584:PHE:CZ	1:7:575:GLU:HG2	2.51	0.44
1:A:625:THR:HA	1:I:608:GLN:HE22	1.83	0.44
1:D:587:SER:HA	1:N:497:ASN:HA	2.00	0.44
1:K:285:PHE:CE1	1:K:312:LEU:HD11	2.52	0.44
1:K:353:TYR:CE2	1:K:355:LEU:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:625:THR:HA	1:n:608:GLN:HE22	1.82	0.44
1:P:397:GLU:OE1	1:P:397:GLU:N	2.51	0.44
1:R:399:PHE:CD1	1:R:399:PHE:N	2.86	0.44
1:R:575:GLU:HG2	1:U:584:PHE:CZ	2.51	0.44
1:W:399:PHE:N	1:W:399:PHE:CD1	2.86	0.44
1:X:354:VAL:H	1:X:646:GLN:HE22	1.58	0.44
1:Y:399:PHE:N	1:Y:399:PHE:CD1	2.86	0.44
1:a:473:VAL:HG12	1:8:517:ILE:HD12	1.99	0.44
1:c:590:ASP:OD1	1:o:497:ASN:ND2	2.43	0.44
1:f:282:TYR:HB3	1:f:648:LEU:HD23	2.00	0.44
1:f:587:SER:HA	1:h:497:ASN:HA	2.00	0.44
1:h:399:PHE:N	1:h:399:PHE:HD1	2.16	0.44
1:o:238:ARG:NH2	1:o:684:GLU:OE2	2.50	0.44
1:q:399:PHE:N	1:q:399:PHE:CD1	2.86	0.44
1:q:449:THR:HG21	1:r:501:PHE:CZ	2.53	0.44
1:r:285:PHE:CE1	1:r:312:LEU:HD11	2.52	0.44
1:v:285:PHE:CE1	1:v:312:LEU:HD11	2.52	0.44
1:1:587:SER:HA	1:2:497:ASN:HA	2.00	0.44
1:2:238:ARG:NH2	1:2:684:GLU:OE2	2.50	0.44
1:3:399:PHE:N	1:3:399:PHE:CD1	2.86	0.44
1:5:449:THR:HG21	1:6:501:PHE:CZ	2.52	0.44
1:6:587:SER:HA	1:7:497:ASN:HA	2.00	0.44
1:8:285:PHE:CE1	1:8:312:LEU:HD11	2.52	0.44
1:B:501:PHE:CZ	1:L:449:THR:HG21	2.53	0.44
1:B:587:SER:HA	1:J:497:ASN:HA	2.00	0.44
1:C:282:TYR:HB3	1:C:648:LEU:HD23	1.99	0.44
1:C:399:PHE:N	1:C:399:PHE:HD1	2.16	0.44
1:C:584:PHE:CZ	1:b:575:GLU:HG2	2.51	0.44
1:D:501:PHE:CZ	1:P:449:THR:HG21	2.52	0.44
1:G:587:SER:HA	1:I:497:ASN:HA	2.00	0.44
1:H:449:THR:HG21	1:W:501:PHE:CZ	2.52	0.44
1:L:698:GLU:HB2	1:L:700:GLN:NE2	2.33	0.44
1:O:587:SER:HA	1:m:497:ASN:HA	2.00	0.44
1:O:628:HIS:HE1	1:O:641:LYS:HZ3	1.65	0.44
1:Q:399:PHE:N	1:Q:399:PHE:HD1	2.16	0.44
1:R:449:THR:HG21	1:S:501:PHE:CZ	2.53	0.44
1:R:608:GLN:HE22	1:S:625:THR:HA	1.82	0.44
1:T:285:PHE:CE1	1:T:312:LEU:HD11	2.52	0.44
1:T:497:ASN:HA	1:l:587:SER:HA	2.00	0.44
1:V:625:THR:HA	1:X:608:GLN:HE22	1.82	0.44
1:W:282:TYR:HB3	1:W:648:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:587:SER:HA	1:Y:497:ASN:HA	2.00	0.44
1:X:501:PHE:CZ	1:e:449:THR:HG21	2.53	0.44
1:Y:285:PHE:CE1	1:Y:312:LEU:HD11	2.52	0.44
1:Z:285:PHE:CE1	1:Z:312:LEU:HD11	2.52	0.44
1:a:399:PHE:N	1:a:399:PHE:HD1	2.16	0.44
1:d:584:PHE:CZ	1:l:575:GLU:HG2	2.51	0.44
1:d:608:GLN:HE22	1:l:625:THR:HA	1.82	0.44
1:e:399:PHE:CD1	1:e:399:PHE:N	2.86	0.44
1:f:501:PHE:CZ	1:g:449:THR:HG21	2.53	0.44
1:f:517:ILE:HD12	1:g:473:VAL:HG12	1.98	0.44
1:g:282:TYR:HB3	1:g:648:LEU:HD23	1.99	0.44
1:g:399:PHE:N	1:g:399:PHE:HD1	2.16	0.44
1:j:449:THR:HG21	1:k:501:PHE:CZ	2.52	0.44
1:l:615:GLN:HE22	1:l:726:PRO:CA	2.30	0.44
1:o:285:PHE:CE1	1:o:312:LEU:HD11	2.52	0.44
1:t:625:THR:HA	1:v:608:GLN:HE22	1.82	0.44
1:w:528:LYS:NZ	1:w:575:GLU:OE2	2.38	0.44
1:z:397:GLU:OE1	1:z:397:GLU:N	2.51	0.44
1:z:449:THR:HG21	1:1:501:PHE:CZ	2.53	0.44
1:z:698:GLU:HB2	1:z:700:GLN:NE2	2.33	0.44
1:4:353:TYR:CE2	1:4:355:LEU:HB2	2.52	0.44
1:4:399:PHE:N	1:4:399:PHE:CD1	2.86	0.44
1:6:282:TYR:HB3	1:6:648:LEU:HD23	1.99	0.44
1:A:449:THR:HG21	1:G:501:PHE:CZ	2.53	0.43
1:C:449:THR:HG21	1:b:501:PHE:CZ	2.53	0.43
1:C:501:PHE:CZ	1:M:449:THR:HG21	2.52	0.43
1:E:501:PHE:CZ	1:F:449:THR:HG21	2.53	0.43
1:E:625:THR:HA	1:F:608:GLN:HE22	1.82	0.43
1:G:282:TYR:HB3	1:G:648:LEU:HD23	2.00	0.43
1:G:399:PHE:CD1	1:G:399:PHE:N	2.86	0.43
1:G:433:ARG:HD3	1:G:433:ARG:HA	1.81	0.43
1:G:584:PHE:CZ	1:I:575:GLU:HG2	2.51	0.43
1:G:698:GLU:HB2	1:G:700:GLN:NE2	2.33	0.43
1:J:238:ARG:NH2	1:J:684:GLU:OE2	2.50	0.43
1:K:238:ARG:NH2	1:K:684:GLU:OE2	2.50	0.43
1:K:497:ASN:HA	1:8:587:SER:HA	2.00	0.43
1:K:615:GLN:HE22	1:K:726:PRO:CA	2.30	0.43
1:X:282:TYR:HB3	1:X:648:LEU:HD23	2.00	0.43
1:X:285:PHE:CE1	1:X:312:LEU:HD11	2.52	0.43
1:X:397:GLU:OE1	1:X:397:GLU:N	2.51	0.43
1:X:399:PHE:N	1:X:399:PHE:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:353:TYR:CE2	1:b:355:LEU:HB2	2.52	0.43
1:c:449:THR:HG21	1:o:501:PHE:CZ	2.53	0.43
1:c:501:PHE:CZ	1:p:449:THR:HG21	2.53	0.43
1:g:354:VAL:H	1:g:646:GLN:HE22	1.58	0.43
1:j:433:ARG:HD3	1:j:433:ARG:HA	1.81	0.43
1:l:698:GLU:HB2	1:l:700:GLN:NE2	2.33	0.43
1:o:399:PHE:N	1:o:399:PHE:CD1	2.86	0.43
1:r:397:GLU:OE1	1:r:397:GLU:N	2.51	0.43
1:t:282:TYR:HB3	1:t:648:LEU:HD23	2.00	0.43
1:t:399:PHE:N	1:t:399:PHE:CD1	2.86	0.43
1:t:501:PHE:CZ	1:v:449:THR:HG21	2.53	0.43
1:t:584:PHE:CZ	1:u:575:GLU:HG2	2.51	0.43
1:t:587:SER:HA	1:u:497:ASN:HA	2.00	0.43
1:t:698:GLU:HB2	1:t:700:GLN:NE2	2.33	0.43
1:x:353:TYR:CE2	1:x:355:LEU:HB2	2.52	0.43
1:x:399:PHE:N	1:x:399:PHE:HD1	2.16	0.43
1:z:399:PHE:N	1:z:399:PHE:CD1	2.86	0.43
1:4:238:ARG:NH2	1:4:684:GLU:OE2	2.50	0.43
1:7:285:PHE:CE1	1:7:312:LEU:HD11	2.52	0.43
1:7:397:GLU:OE1	1:7:397:GLU:N	2.51	0.43
1:A:497:ASN:HA	1:I:587:SER:HA	2.00	0.43
1:A:608:GLN:HE22	1:G:625:THR:HA	1.82	0.43
1:B:399:PHE:N	1:B:399:PHE:HD1	2.16	0.43
1:D:282:TYR:HB3	1:D:648:LEU:HD23	2.00	0.43
1:E:584:PHE:CZ	1:Q:575:GLU:HG2	2.51	0.43
1:H:238:ARG:NH2	1:H:684:GLU:OE2	2.50	0.43
1:I:399:PHE:N	1:I:399:PHE:HD1	2.16	0.43
1:J:449:THR:HG21	1:L:501:PHE:CZ	2.52	0.43
1:K:399:PHE:N	1:K:399:PHE:CD1	2.86	0.43
1:K:625:THR:HA	1:8:608:GLN:HE22	1.82	0.43
1:L:399:PHE:N	1:L:399:PHE:CD1	2.86	0.43
1:O:575:GLU:HG2	1:n:584:PHE:CZ	2.51	0.43
1:O:615:GLN:HE22	1:O:726:PRO:CA	2.30	0.43
1:O:698:GLU:HB2	1:O:700:GLN:NE2	2.33	0.43
1:S:397:GLU:OE1	1:S:397:GLU:N	2.51	0.43
1:V:449:THR:HG21	1:e:501:PHE:CZ	2.53	0.43
1:W:353:TYR:CE2	1:W:355:LEU:HB2	2.52	0.43
1:W:449:THR:HG21	1:Y:501:PHE:CZ	2.52	0.43
1:W:473:VAL:HG12	1:Y:517:ILE:HD12	1.98	0.43
1:W:590:ASP:OD1	1:Y:497:ASN:ND2	2.44	0.43
1:Y:397:GLU:OE1	1:Y:397:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:399:PHE:N	1:c:399:PHE:CD1	2.86	0.43
1:f:353:TYR:CE2	1:f:355:LEU:HB2	2.52	0.43
1:f:575:GLU:HG2	1:g:584:PHE:CZ	2.51	0.43
1:g:501:PHE:CZ	1:h:449:THR:HG21	2.52	0.43
1:l:282:TYR:HB3	1:l:648:LEU:HD23	2.00	0.43
1:l:628:HIS:HE1	1:l:641:LYS:HZ3	1.65	0.43
1:m:285:PHE:CE1	1:m:312:LEU:HD11	2.52	0.43
1:o:282:TYR:HB3	1:o:648:LEU:HD23	2.00	0.43
1:o:397:GLU:OE1	1:o:397:GLU:N	2.51	0.43
1:p:354:VAL:H	1:p:646:GLN:HE22	1.58	0.43
1:q:608:GLN:HE22	1:r:625:THR:HA	1.82	0.43
1:s:399:PHE:N	1:s:399:PHE:CD1	2.86	0.43
1:u:698:GLU:HB2	1:u:700:GLN:NE2	2.33	0.43
1:w:501:PHE:CZ	1:y:449:THR:HG21	2.53	0.43
1:w:625:THR:HA	1:y:608:GLN:HE22	1.82	0.43
1:w:628:HIS:HE1	1:w:641:LYS:HZ3	1.65	0.43
1:1:399:PHE:N	1:1:399:PHE:HD1	2.16	0.43
1:3:399:PHE:N	1:3:399:PHE:HD1	2.16	0.43
1:4:615:GLN:HE22	1:4:726:PRO:CA	2.30	0.43
1:5:238:ARG:NH2	1:5:684:GLU:OE2	2.50	0.43
1:6:590:ASP:OD1	1:7:497:ASN:ND2	2.44	0.43
1:B:302:ASN:ND2	1:B:701:TYR:H	2.05	0.43
1:B:497:ASN:HA	1:L:587:SER:HA	2.00	0.43
1:B:625:THR:HA	1:L:608:GLN:HE22	1.82	0.43
1:C:399:PHE:N	1:C:399:PHE:CD1	2.86	0.43
1:C:473:VAL:HG12	1:b:517:ILE:HD12	1.98	0.43
1:C:608:GLN:HE22	1:b:625:THR:HA	1.83	0.43
1:D:497:ASN:HA	1:P:587:SER:HA	2.00	0.43
1:E:628:HIS:HE1	1:E:641:LYS:HZ3	1.65	0.43
1:E:698:GLU:HB2	1:E:700:GLN:NE2	2.33	0.43
1:I:698:GLU:HB2	1:I:700:GLN:NE2	2.33	0.43
1:J:253:ASN:OD1	1:J:375:GLN:NE2	2.52	0.43
1:K:587:SER:HA	1:a:497:ASN:HA	2.00	0.43
1:O:282:TYR:HB3	1:O:648:LEU:HD23	2.00	0.43
1:O:497:ASN:HA	1:n:587:SER:HA	2.00	0.43
1:Q:253:ASN:OD1	1:Q:375:GLN:NE2	2.52	0.43
1:Q:353:TYR:CE2	1:Q:355:LEU:HB2	2.52	0.43
1:U:399:PHE:N	1:U:399:PHE:CD1	2.86	0.43
1:U:433:ARG:HD3	1:U:433:ARG:HA	1.81	0.43
1:V:473:VAL:HG12	1:e:517:ILE:HD12	1.98	0.43
1:V:698:GLU:HB2	1:V:700:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:312:LEU:HB3	1:b:414:TYR:HB3	2.01	0.43
1:c:282:TYR:HB3	1:c:648:LEU:HD23	2.00	0.43
1:c:517:ILE:HD12	1:p:473:VAL:HG12	1.98	0.43
1:d:587:SER:HA	1:l:497:ASN:HA	2.00	0.43
1:f:312:LEU:HB3	1:f:414:TYR:HB3	2.01	0.43
1:g:399:PHE:N	1:g:399:PHE:CD1	2.86	0.43
1:j:587:SER:HA	1:k:497:ASN:HA	2.00	0.43
1:k:282:TYR:HB3	1:k:648:LEU:HD23	1.99	0.43
1:n:528:LYS:NZ	1:n:575:GLU:OE2	2.38	0.43
1:q:285:PHE:CE1	1:q:312:LEU:HD11	2.52	0.43
1:s:425:TYR:H	1:s:730:ARG:HG2	1.81	0.43
1:s:433:ARG:HD3	1:s:433:ARG:HA	1.81	0.43
1:t:399:PHE:N	1:t:399:PHE:HD1	2.16	0.43
1:u:399:PHE:N	1:u:399:PHE:HD1	2.16	0.43
1:u:587:SER:HA	1:v:497:ASN:HA	2.00	0.43
1:v:353:TYR:CE2	1:v:355:LEU:HB2	2.52	0.43
1:w:584:PHE:CZ	1:x:575:GLU:HG2	2.51	0.43
1:x:253:ASN:OD1	1:x:375:GLN:NE2	2.52	0.43
1:z:587:SER:HA	1:1:497:ASN:HA	2.00	0.43
1:2:253:ASN:OD1	1:2:375:GLN:NE2	2.52	0.43
1:3:497:ASN:HA	1:4:587:SER:HA	2.00	0.43
1:6:353:TYR:CE2	1:6:355:LEU:HB2	2.52	0.43
1:6:449:THR:HG21	1:7:501:PHE:CZ	2.52	0.43
1:6:473:VAL:HG12	1:7:517:ILE:HD12	1.98	0.43
1:8:399:PHE:N	1:8:399:PHE:CD1	2.86	0.43
1:A:353:TYR:CE2	1:A:355:LEU:HB2	2.52	0.43
1:C:312:LEU:HB3	1:C:414:TYR:HB3	2.01	0.43
1:C:313:ASN:HB3	1:C:682:GLU:HB3	2.01	0.43
1:E:313:ASN:HB3	1:E:682:GLU:HB3	2.01	0.43
1:F:497:ASN:HA	1:Q:587:SER:HA	2.00	0.43
1:G:399:PHE:N	1:G:399:PHE:HD1	2.16	0.43
1:J:587:SER:HA	1:L:497:ASN:HA	2.00	0.43
1:P:399:PHE:N	1:P:399:PHE:CD1	2.86	0.43
1:Q:282:TYR:HB3	1:Q:648:LEU:HD23	1.99	0.43
1:R:253:ASN:OD1	1:R:375:GLN:NE2	2.52	0.43
1:R:285:PHE:CE1	1:R:312:LEU:HD11	2.52	0.43
1:S:282:TYR:HB3	1:S:648:LEU:HD23	2.00	0.43
1:S:399:PHE:N	1:S:399:PHE:HD1	2.16	0.43
1:S:449:THR:HG21	1:U:501:PHE:CZ	2.52	0.43
1:S:608:GLN:HE22	1:U:625:THR:HA	1.83	0.43
1:U:425:TYR:H	1:U:730:ARG:HG2	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:312:LEU:HB3	1:V:414:TYR:HB3	2.01	0.43
1:V:397:GLU:OE1	1:V:397:GLU:N	2.51	0.43
1:X:253:ASN:OD1	1:X:375:GLN:NE2	2.52	0.43
1:X:312:LEU:HB3	1:X:414:TYR:HB3	2.01	0.43
1:Z:399:PHE:N	1:Z:399:PHE:CD1	2.86	0.43
1:Z:587:SER:HA	1:4:497:ASN:HA	2.00	0.43
1:Z:608:GLN:HE22	1:4:625:THR:HA	1.82	0.43
1:a:449:THR:HG21	1:8:501:PHE:CZ	2.53	0.43
1:b:253:ASN:OD1	1:b:375:GLN:NE2	2.52	0.43
1:e:282:TYR:HB3	1:e:648:LEU:HD23	2.00	0.43
1:e:313:ASN:HB3	1:e:682:GLU:HB3	2.01	0.43
1:f:253:ASN:OD1	1:f:375:GLN:NE2	2.52	0.43
1:f:625:THR:HA	1:g:608:GLN:HE22	1.82	0.43
1:g:312:LEU:HB3	1:g:414:TYR:HB3	2.01	0.43
1:j:399:PHE:N	1:j:399:PHE:CD1	2.86	0.43
1:o:312:LEU:HB3	1:o:414:TYR:HB3	2.01	0.43
1:p:312:LEU:HB3	1:p:414:TYR:HB3	2.01	0.43
1:p:397:GLU:OE1	1:p:397:GLU:N	2.51	0.43
1:p:698:GLU:HB2	1:p:700:GLN:NE2	2.33	0.43
1:q:253:ASN:OD1	1:q:375:GLN:NE2	2.52	0.43
1:q:282:TYR:HB3	1:q:648:LEU:HD23	2.00	0.43
1:r:282:TYR:HB3	1:r:648:LEU:HD23	2.00	0.43
1:r:449:THR:HG21	1:s:501:PHE:CZ	2.52	0.43
1:w:313:ASN:HB3	1:w:682:GLU:HB3	2.01	0.43
1:w:608:GLN:HE22	1:x:625:THR:HA	1.82	0.43
1:w:698:GLU:HB2	1:w:700:GLN:NE2	2.33	0.43
1:x:587:SER:HA	1:y:497:ASN:HA	2.00	0.43
1:z:312:LEU:HB3	1:z:414:TYR:HB3	2.01	0.43
1:z:497:ASN:HA	1:2:587:SER:HA	2.00	0.43
1:z:501:PHE:CZ	1:2:449:THR:HG21	2.52	0.43
1:z:608:GLN:HE22	1:1:625:THR:HA	1.82	0.43
1:3:615:GLN:HE22	1:3:726:PRO:CA	2.30	0.43
1:5:615:GLN:HE22	1:5:726:PRO:CA	2.30	0.43
1:7:312:LEU:HB3	1:7:414:TYR:HB3	2.01	0.43
1:B:399:PHE:N	1:B:399:PHE:CD1	2.86	0.43
1:E:608:GLN:HE22	1:Q:625:THR:HA	1.82	0.43
1:H:313:ASN:HB3	1:H:682:GLU:HB3	2.01	0.43
1:H:497:ASN:HA	1:Y:587:SER:HA	2.00	0.43
1:K:312:LEU:HB3	1:K:414:TYR:HB3	2.01	0.43
1:K:399:PHE:N	1:K:399:PHE:HD1	2.16	0.43
1:L:253:ASN:OD1	1:L:375:GLN:NE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:312:LEU:HB3	1:L:414:TYR:HB3	2.01	0.43
1:N:253:ASN:OD1	1:N:375:GLN:NE2	2.52	0.43
1:O:312:LEU:HB3	1:O:414:TYR:HB3	2.01	0.43
1:O:484:TYR:CZ	1:n:580:VAL:HG22	2.54	0.43
1:R:282:TYR:HB3	1:R:648:LEU:HD23	2.00	0.43
1:V:313:ASN:HB3	1:V:682:GLU:HB3	2.01	0.43
1:W:253:ASN:OD1	1:W:375:GLN:NE2	2.52	0.43
1:Z:501:PHE:CZ	1:3:449:THR:HG21	2.53	0.43
1:a:253:ASN:OD1	1:a:375:GLN:NE2	2.52	0.43
1:c:313:ASN:HB3	1:c:682:GLU:HB3	2.01	0.43
1:d:313:ASN:HB3	1:d:682:GLU:HB3	2.01	0.43
1:d:580:VAL:HG22	1:l:484:TYR:CZ	2.54	0.43
1:g:313:ASN:HB3	1:g:682:GLU:HB3	2.01	0.43
1:i:501:PHE:CZ	1:k:449:THR:HG21	2.52	0.43
1:l:312:LEU:HB3	1:l:414:TYR:HB3	2.01	0.43
1:m:608:GLN:HE22	1:n:625:THR:HA	1.82	0.43
1:n:253:ASN:OD1	1:n:375:GLN:NE2	2.52	0.43
1:n:313:ASN:HB3	1:n:682:GLU:HB3	2.01	0.43
1:o:253:ASN:OD1	1:o:375:GLN:NE2	2.52	0.43
1:p:313:ASN:HB3	1:p:682:GLU:HB3	2.01	0.43
1:p:615:GLN:HE22	1:p:726:PRO:CA	2.30	0.43
1:r:399:PHE:N	1:r:399:PHE:HD1	2.16	0.43
1:r:608:GLN:HE22	1:s:625:THR:HA	1.83	0.43
1:u:580:VAL:HG22	1:v:484:TYR:CZ	2.54	0.43
1:v:282:TYR:HB3	1:v:648:LEU:HD23	2.00	0.43
1:z:253:ASN:OD1	1:z:375:GLN:NE2	2.52	0.43
1:3:253:ASN:OD1	1:3:375:GLN:NE2	2.52	0.43
1:4:312:LEU:HB3	1:4:414:TYR:HB3	2.01	0.43
1:5:313:ASN:HB3	1:5:682:GLU:HB3	2.01	0.43
1:5:497:ASN:HA	1:7:587:SER:HA	2.00	0.43
1:6:399:PHE:N	1:6:399:PHE:HD1	2.16	0.43
1:A:282:TYR:HB3	1:A:648:LEU:HD23	2.00	0.43
1:A:307:PHE:HA	1:A:686:GLU:O	2.19	0.43
1:A:484:TYR:CZ	1:I:580:VAL:HG22	2.54	0.43
1:B:312:LEU:HB3	1:B:414:TYR:HB3	2.01	0.43
1:C:253:ASN:OD1	1:C:375:GLN:NE2	2.52	0.43
1:D:253:ASN:OD1	1:D:375:GLN:NE2	2.52	0.43
1:D:449:THR:HG21	1:N:501:PHE:CZ	2.52	0.43
1:F:238:ARG:NH2	1:F:684:GLU:OE2	2.50	0.43
1:G:313:ASN:HB3	1:G:682:GLU:HB3	2.01	0.43
1:H:615:GLN:HE22	1:H:726:PRO:CA	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:399:PHE:N	1:I:399:PHE:CD1	2.86	0.43
1:N:312:LEU:HB3	1:N:414:TYR:HB3	2.01	0.43
1:O:501:PHE:CZ	1:n:449:THR:HG21	2.53	0.43
1:Q:628:HIS:HE1	1:Q:641:LYS:HZ3	1.66	0.43
1:T:608:GLN:HE22	1:d:625:THR:HA	1.82	0.43
1:V:253:ASN:OD1	1:V:375:GLN:NE2	2.52	0.43
1:V:615:GLN:HE22	1:V:726:PRO:CA	2.30	0.43
1:W:399:PHE:N	1:W:399:PHE:HD1	2.16	0.43
1:X:484:TYR:CZ	1:e:580:VAL:HG22	2.54	0.43
1:Y:289:HIS:CD2	1:Y:365:PRO:HG3	2.54	0.43
1:a:615:GLN:HE22	1:a:726:PRO:CA	2.30	0.43
1:c:580:VAL:HG22	1:o:484:TYR:CZ	2.54	0.43
1:d:253:ASN:OD1	1:d:375:GLN:NE2	2.52	0.43
1:d:449:THR:HG21	1:l:501:PHE:CZ	2.53	0.43
1:i:253:ASN:OD1	1:i:375:GLN:NE2	2.52	0.43
1:k:289:HIS:CD2	1:k:365:PRO:HG3	2.54	0.43
1:p:253:ASN:OD1	1:p:375:GLN:NE2	2.52	0.43
1:r:238:ARG:NH2	1:r:684:GLU:OE2	2.50	0.43
1:r:580:VAL:HG22	1:s:484:TYR:CZ	2.54	0.43
1:u:399:PHE:N	1:u:399:PHE:CD1	2.86	0.43
1:v:302:ASN:ND2	1:v:701:TYR:H	2.05	0.43
1:v:307:PHE:HA	1:v:686:GLU:O	2.19	0.43
1:w:253:ASN:OD1	1:w:375:GLN:NE2	2.52	0.43
1:x:282:TYR:HB3	1:x:648:LEU:HD23	1.99	0.43
1:y:238:ARG:NH2	1:y:684:GLU:OE2	2.50	0.43
1:y:307:PHE:HA	1:y:686:GLU:O	2.19	0.43
1:1:312:LEU:HB3	1:1:414:TYR:HB3	2.01	0.43
1:1:399:PHE:N	1:1:399:PHE:CD1	2.86	0.43
1:1:615:GLN:HE22	1:1:726:PRO:CA	2.30	0.43
1:4:282:TYR:HB3	1:4:648:LEU:HD23	2.00	0.43
1:6:253:ASN:OD1	1:6:375:GLN:NE2	2.52	0.43
1:7:289:HIS:CD2	1:7:365:PRO:HG3	2.54	0.43
1:A:253:ASN:OD1	1:A:375:GLN:NE2	2.52	0.43
1:A:302:ASN:ND2	1:A:701:TYR:H	2.05	0.43
1:B:307:PHE:HA	1:B:686:GLU:O	2.19	0.43
1:D:289:HIS:CD2	1:D:365:PRO:HG3	2.54	0.43
1:D:313:ASN:HB3	1:D:682:GLU:HB3	2.01	0.43
1:D:575:GLU:HG2	1:P:584:PHE:CZ	2.51	0.43
1:E:253:ASN:OD1	1:E:375:GLN:NE2	2.52	0.43
1:F:307:PHE:HA	1:F:686:GLU:O	2.19	0.43
1:F:397:GLU:OE1	1:F:397:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:253:ASN:OD1	1:H:375:GLN:NE2	2.52	0.43
1:I:289:HIS:CD2	1:I:365:PRO:HG3	2.54	0.43
1:J:289:HIS:CD2	1:J:365:PRO:HG3	2.54	0.43
1:K:628:HIS:HE1	1:K:641:LYS:HZ3	1.66	0.43
1:M:312:LEU:HB3	1:M:414:TYR:HB3	2.01	0.43
1:N:289:HIS:CD2	1:N:365:PRO:HG3	2.54	0.43
1:O:307:PHE:HA	1:O:686:GLU:O	2.19	0.43
1:P:312:LEU:HB3	1:P:414:TYR:HB3	2.01	0.43
1:S:253:ASN:OD1	1:S:375:GLN:NE2	2.52	0.43
1:S:580:VAL:HG22	1:U:484:TYR:CZ	2.54	0.43
1:U:289:HIS:CD2	1:U:365:PRO:HG3	2.54	0.43
1:U:312:LEU:HB3	1:U:414:TYR:HB3	2.01	0.43
1:V:399:PHE:N	1:V:399:PHE:HD1	2.16	0.43
1:X:497:ASN:HA	1:e:587:SER:HA	2.00	0.43
1:Y:253:ASN:OD1	1:Y:375:GLN:NE2	2.52	0.43
1:Y:312:LEU:HB3	1:Y:414:TYR:HB3	2.01	0.43
1:c:433:ARG:HA	1:c:433:ARG:HD3	1.81	0.43
1:c:587:SER:HA	1:o:497:ASN:HA	2.00	0.43
1:f:399:PHE:N	1:f:399:PHE:HD1	2.16	0.43
1:g:238:ARG:NH2	1:g:684:GLU:OE2	2.50	0.43
1:g:253:ASN:OD1	1:g:375:GLN:NE2	2.52	0.43
1:i:289:HIS:CD2	1:i:365:PRO:HG3	2.54	0.43
1:i:312:LEU:HB3	1:i:414:TYR:HB3	2.01	0.43
1:j:282:TYR:HB3	1:j:648:LEU:HD23	2.00	0.43
1:j:312:LEU:HB3	1:j:414:TYR:HB3	2.01	0.43
1:k:253:ASN:OD1	1:k:375:GLN:NE2	2.52	0.43
1:k:313:ASN:HB3	1:k:682:GLU:HB3	2.01	0.43
1:l:307:PHE:HA	1:l:686:GLU:O	2.19	0.43
1:n:399:PHE:N	1:n:399:PHE:CD1	2.86	0.43
1:o:302:ASN:ND2	1:o:701:TYR:H	2.05	0.43
1:o:399:PHE:N	1:o:399:PHE:HD1	2.16	0.43
1:r:253:ASN:OD1	1:r:375:GLN:NE2	2.52	0.43
1:s:312:LEU:HB3	1:s:414:TYR:HB3	2.01	0.43
1:s:397:GLU:OE1	1:s:397:GLU:N	2.51	0.43
1:s:399:PHE:N	1:s:399:PHE:HD1	2.16	0.43
1:t:615:GLN:HE22	1:t:726:PRO:CA	2.30	0.43
1:u:289:HIS:CD2	1:u:365:PRO:HG3	2.54	0.43
1:v:253:ASN:OD1	1:v:375:GLN:NE2	2.52	0.43
1:v:312:LEU:HB3	1:v:414:TYR:HB3	2.01	0.43
1:v:698:GLU:HB2	1:v:700:GLN:NE2	2.33	0.43
1:1:238:ARG:NH2	1:1:684:GLU:OE2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:307:PHE:HA	1:1:686:GLU:O	2.19	0.43
1:2:289:HIS:CD2	1:2:365:PRO:HG3	2.54	0.43
1:4:399:PHE:N	1:4:399:PHE:HD1	2.16	0.43
1:5:289:HIS:CD2	1:5:365:PRO:HG3	2.54	0.43
1:A:289:HIS:CD2	1:A:365:PRO:HG3	2.54	0.43
1:A:312:LEU:HB3	1:A:414:TYR:HB3	2.01	0.43
1:A:399:PHE:N	1:A:399:PHE:CD1	2.86	0.43
1:A:698:GLU:HB2	1:A:700:GLN:NE2	2.33	0.43
1:B:615:GLN:HE22	1:B:726:PRO:CA	2.30	0.43
1:C:238:ARG:NH2	1:C:684:GLU:OE2	2.50	0.43
1:C:307:PHE:HA	1:C:686:GLU:O	2.19	0.43
1:C:484:TYR:CZ	1:M:580:VAL:HG22	2.54	0.43
1:D:399:PHE:N	1:D:399:PHE:HD1	2.16	0.43
1:E:484:TYR:CZ	1:F:580:VAL:HG22	2.54	0.43
1:E:575:GLU:HG2	1:F:584:PHE:CZ	2.51	0.43
1:H:289:HIS:CD2	1:H:365:PRO:HG3	2.54	0.43
1:J:313:ASN:HB3	1:J:682:GLU:HB3	2.01	0.43
1:J:399:PHE:N	1:J:399:PHE:CD1	2.86	0.43
1:K:282:TYR:HB3	1:K:648:LEU:HD23	2.00	0.43
1:K:289:HIS:CD2	1:K:365:PRO:HG3	2.54	0.43
1:L:313:ASN:HB3	1:L:682:GLU:HB3	2.01	0.43
1:M:313:ASN:HB3	1:M:682:GLU:HB3	2.01	0.43
1:M:399:PHE:N	1:M:399:PHE:CD1	2.86	0.43
1:P:253:ASN:OD1	1:P:375:GLN:NE2	2.52	0.43
1:P:282:TYR:HB3	1:P:648:LEU:HD23	2.00	0.43
1:P:289:HIS:CD2	1:P:365:PRO:HG3	2.54	0.43
1:P:433:ARG:HD3	1:P:433:ARG:HA	1.81	0.43
1:Q:289:HIS:CD2	1:Q:365:PRO:HG3	2.54	0.43
1:R:698:GLU:HB2	1:R:700:GLN:NE2	2.33	0.43
1:S:238:ARG:NH2	1:S:684:GLU:OE2	2.50	0.43
1:T:253:ASN:OD1	1:T:375:GLN:NE2	2.52	0.43
1:U:397:GLU:OE1	1:U:397:GLU:N	2.51	0.43
1:V:497:ASN:HA	1:X:587:SER:HA	2.00	0.43
1:V:608:GLN:NE2	1:e:625:THR:HA	2.34	0.43
1:W:322:LYS:HZ3	1:W:335:ASN:ND2	2.17	0.43
1:X:302:ASN:ND2	1:X:701:TYR:H	2.05	0.43
1:X:399:PHE:N	1:X:399:PHE:HD1	2.16	0.43
1:Z:397:GLU:OE1	1:Z:397:GLU:N	2.51	0.43
1:Z:625:THR:HA	1:3:608:GLN:NE2	2.34	0.43
1:a:397:GLU:OE1	1:a:397:GLU:N	2.51	0.43
1:a:608:GLN:NE2	1:8:625:THR:HA	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:397:GLU:OE1	1:c:397:GLU:N	2.51	0.43
1:c:625:THR:HA	1:p:608:GLN:NE2	2.34	0.43
1:e:250:PRO:HB3	1:h:658:PRO:HG2	2.01	0.43
1:f:289:HIS:CD2	1:f:365:PRO:HG3	2.54	0.43
1:g:484:TYR:CZ	1:h:580:VAL:HG22	2.54	0.43
1:h:312:LEU:HB3	1:h:414:TYR:HB3	2.01	0.43
1:j:253:ASN:OD1	1:j:375:GLN:NE2	2.52	0.43
1:j:289:HIS:CD2	1:j:365:PRO:HG3	2.54	0.43
1:m:307:PHE:HA	1:m:686:GLU:O	2.19	0.43
1:n:312:LEU:HB3	1:n:414:TYR:HB3	2.01	0.43
1:p:399:PHE:N	1:p:399:PHE:HD1	2.16	0.43
1:s:289:HIS:CD2	1:s:365:PRO:HG3	2.54	0.43
1:s:307:PHE:HA	1:s:686:GLU:O	2.19	0.43
1:t:313:ASN:HB3	1:t:682:GLU:HB3	2.01	0.43
1:v:399:PHE:N	1:v:399:PHE:CD1	2.86	0.43
1:w:397:GLU:OE1	1:w:397:GLU:N	2.51	0.43
1:w:484:TYR:CZ	1:y:580:VAL:HG22	2.54	0.43
1:x:289:HIS:CD2	1:x:365:PRO:HG3	2.54	0.43
1:y:397:GLU:OE1	1:y:397:GLU:N	2.51	0.43
1:2:313:ASN:HB3	1:2:682:GLU:HB3	2.01	0.43
1:3:313:ASN:HB3	1:3:682:GLU:HB3	2.01	0.43
1:3:397:GLU:OE1	1:3:397:GLU:N	2.51	0.43
1:3:484:TYR:CZ	1:4:580:VAL:HG22	2.54	0.43
1:4:307:PHE:HA	1:4:686:GLU:O	2.19	0.43
1:5:253:ASN:OD1	1:5:375:GLN:NE2	2.52	0.43
1:5:658:PRO:HG2	1:8:250:PRO:HB3	2.01	0.43
1:7:253:ASN:OD1	1:7:375:GLN:NE2	2.52	0.43
1:B:238:ARG:NH2	1:B:684:GLU:OE2	2.50	0.43
1:B:253:ASN:OD1	1:B:375:GLN:NE2	2.52	0.43
1:B:289:HIS:CD2	1:B:365:PRO:HG3	2.54	0.43
1:C:580:VAL:HG22	1:b:484:TYR:CZ	2.54	0.43
1:E:397:GLU:OE1	1:E:397:GLU:N	2.51	0.43
1:F:625:THR:HA	1:Q:608:GLN:NE2	2.34	0.43
1:G:250:PRO:HB3	1:W:658:PRO:HG2	2.01	0.43
1:G:580:VAL:HG22	1:I:484:TYR:CZ	2.54	0.43
1:G:615:GLN:HE22	1:G:726:PRO:CA	2.30	0.43
1:H:399:PHE:N	1:H:399:PHE:HD1	2.16	0.43
1:K:250:PRO:HB3	1:L:658:PRO:HG2	2.01	0.43
1:K:580:VAL:HG22	1:a:484:TYR:CZ	2.54	0.43
1:K:658:PRO:HG2	1:7:250:PRO:HB3	2.01	0.43
1:M:485:ARG:HD3	1:b:581:ALA:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:250:PRO:HB3	1:P:658:PRO:HG2	2.01	0.43
1:P:313:ASN:HB3	1:P:682:GLU:HB3	2.01	0.43
1:Q:313:ASN:HB3	1:Q:682:GLU:HB3	2.01	0.43
1:R:238:ARG:NH2	1:R:684:GLU:OE2	2.50	0.43
1:S:312:LEU:HB3	1:S:414:TYR:HB3	2.01	0.43
1:T:289:HIS:CD2	1:T:365:PRO:HG3	2.54	0.43
1:T:307:PHE:HA	1:T:686:GLU:O	2.19	0.43
1:T:698:GLU:HB2	1:T:700:GLN:NE2	2.33	0.43
1:U:307:PHE:HA	1:U:686:GLU:O	2.19	0.43
1:U:399:PHE:N	1:U:399:PHE:HD1	2.16	0.43
1:V:625:THR:HA	1:X:608:GLN:NE2	2.34	0.43
1:Y:250:PRO:HB3	1:4:658:PRO:HG2	2.01	0.43
1:a:313:ASN:HB3	1:a:682:GLU:HB3	2.01	0.43
1:b:289:HIS:CD2	1:b:365:PRO:HG3	2.54	0.43
1:b:399:PHE:N	1:b:399:PHE:HD1	2.16	0.43
1:d:312:LEU:HB3	1:d:414:TYR:HB3	2.01	0.43
1:d:399:PHE:N	1:d:399:PHE:CD1	2.86	0.43
1:e:433:ARG:HA	1:e:433:ARG:HD3	1.81	0.43
1:f:484:TYR:CZ	1:g:580:VAL:HG22	2.54	0.43
1:g:307:PHE:HA	1:g:686:GLU:O	2.19	0.43
1:h:399:PHE:N	1:h:399:PHE:CD1	2.86	0.43
1:i:608:GLN:NE2	1:j:625:THR:HA	2.34	0.43
1:j:658:PRO:HG2	1:l:250:PRO:HB3	2.01	0.43
1:k:399:PHE:N	1:k:399:PHE:HD1	2.16	0.43
1:l:289:HIS:CD2	1:l:365:PRO:HG3	2.54	0.43
1:l:399:PHE:N	1:l:399:PHE:HD1	2.16	0.43
1:m:253:ASN:OD1	1:m:375:GLN:NE2	2.52	0.43
1:m:289:HIS:CD2	1:m:365:PRO:HG3	2.54	0.43
1:m:698:GLU:HB2	1:m:700:GLN:NE2	2.33	0.43
1:o:587:SER:HA	1:p:497:ASN:HA	2.00	0.43
1:o:608:GLN:NE2	1:p:625:THR:HA	2.34	0.43
1:q:587:SER:HA	1:r:497:ASN:HA	2.00	0.43
1:r:312:LEU:HB3	1:r:414:TYR:HB3	2.01	0.43
1:r:658:PRO:HG2	1:x:250:PRO:HB3	2.01	0.43
1:s:282:TYR:HB3	1:s:648:LEU:HD23	2.00	0.43
1:t:250:PRO:HB3	1:6:658:PRO:HG2	2.01	0.43
1:t:580:VAL:HG22	1:u:484:TYR:CZ	2.54	0.43
1:v:289:HIS:CD2	1:v:365:PRO:HG3	2.54	0.43
1:x:312:LEU:HB3	1:x:414:TYR:HB3	2.01	0.43
1:x:608:GLN:NE2	1:y:625:THR:HA	2.34	0.43
1:y:313:ASN:HB3	1:y:682:GLU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:313:ASN:HB3	1:z:682:GLU:HB3	2.01	0.43
1:1:253:ASN:OD1	1:1:375:GLN:NE2	2.52	0.43
1:3:501:PHE:CZ	1:4:449:THR:HG21	2.53	0.43
1:5:257:TYR:OH	1:5:397:GLU:OE1	2.23	0.43
1:5:580:VAL:HG22	1:6:484:TYR:CZ	2.54	0.43
1:5:608:GLN:HE22	1:6:625:THR:HA	1.82	0.43
1:8:397:GLU:OE1	1:8:397:GLU:N	2.51	0.43
1:C:625:THR:HA	1:M:608:GLN:NE2	2.33	0.43
1:F:313:ASN:HB3	1:F:682:GLU:HB3	2.01	0.43
1:H:257:TYR:OH	1:H:397:GLU:OE1	2.23	0.43
1:H:580:VAL:HG22	1:W:484:TYR:CZ	2.54	0.43
1:H:587:SER:HA	1:W:497:ASN:HA	2.00	0.43
1:K:307:PHE:HA	1:K:686:GLU:O	2.19	0.43
1:K:449:THR:HG21	1:a:501:PHE:CZ	2.53	0.43
1:L:307:PHE:HA	1:L:686:GLU:O	2.19	0.43
1:M:253:ASN:OD1	1:M:375:GLN:NE2	2.52	0.43
1:M:397:GLU:OE1	1:M:397:GLU:N	2.51	0.43
1:N:250:PRO:HB3	1:m:658:PRO:HG2	2.01	0.43
1:N:587:SER:HA	1:P:497:ASN:HA	2.00	0.43
1:N:608:GLN:NE2	1:P:625:THR:HA	2.34	0.43
1:O:289:HIS:CD2	1:O:365:PRO:HG3	2.54	0.43
1:Q:250:PRO:HB3	1:S:658:PRO:HG2	2.01	0.43
1:Q:312:LEU:HB3	1:Q:414:TYR:HB3	2.01	0.43
1:R:587:SER:HA	1:S:497:ASN:HA	2.00	0.43
1:S:250:PRO:HB3	1:d:658:PRO:HG2	2.01	0.43
1:S:313:ASN:HB3	1:S:682:GLU:HB3	2.01	0.43
1:U:282:TYR:HB3	1:U:648:LEU:HD23	2.00	0.43
1:W:580:VAL:HG22	1:Y:484:TYR:CZ	2.54	0.43
1:Z:584:PHE:CZ	1:4:575:GLU:HG2	2.51	0.43
1:b:528:LYS:NZ	1:b:575:GLU:OE2	2.38	0.43
1:c:307:PHE:HA	1:c:686:GLU:O	2.19	0.43
1:e:253:ASN:OD1	1:e:375:GLN:NE2	2.52	0.43
1:e:307:PHE:HA	1:e:686:GLU:O	2.19	0.43
1:e:397:GLU:OE1	1:e:397:GLU:N	2.51	0.43
1:h:313:ASN:HB3	1:h:682:GLU:HB3	2.01	0.43
1:i:587:SER:HA	1:j:497:ASN:HA	2.00	0.43
1:j:250:PRO:HB3	1:x:658:PRO:HG2	2.01	0.43
1:j:313:ASN:HB3	1:j:682:GLU:HB3	2.01	0.43
1:j:584:PHE:CZ	1:k:575:GLU:HG2	2.51	0.43
1:n:658:PRO:HG2	1:r:250:PRO:HB3	2.01	0.43
1:q:238:ARG:NH2	1:q:684:GLU:OE2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:698:GLU:HB2	1:q:700:GLN:NE2	2.33	0.43
1:r:313:ASN:HB3	1:r:682:GLU:HB3	2.01	0.43
1:t:484:TYR:CZ	1:v:580:VAL:HG22	2.54	0.43
1:w:575:GLU:HG2	1:y:584:PHE:CZ	2.51	0.43
1:x:313:ASN:HB3	1:x:682:GLU:HB3	2.01	0.43
1:z:658:PRO:HG2	1:4:250:PRO:HB3	2.01	0.43
1:1:289:HIS:CD2	1:1:365:PRO:HG3	2.54	0.43
1:1:313:ASN:HB3	1:1:682:GLU:HB3	2.01	0.43
1:2:399:PHE:N	1:2:399:PHE:CD1	2.86	0.43
1:4:433:ARG:HD3	1:4:433:ARG:HA	1.81	0.43
1:6:580:VAL:HG22	1:7:484:TYR:CZ	2.54	0.43
1:8:289:HIS:CD2	1:8:365:PRO:HG3	2.54	0.43
1:A:580:VAL:HG22	1:G:484:TYR:CZ	2.54	0.42
1:B:313:ASN:HB3	1:B:682:GLU:HB3	2.01	0.42
1:E:307:PHE:HA	1:E:686:GLU:O	2.19	0.42
1:G:289:HIS:CD2	1:G:365:PRO:HG3	2.54	0.42
1:G:312:LEU:HB3	1:G:414:TYR:HB3	2.01	0.42
1:H:608:GLN:HE22	1:W:625:THR:HA	1.82	0.42
1:H:658:PRO:HG2	1:Z:250:PRO:HB3	2.01	0.42
1:M:289:HIS:CD2	1:M:365:PRO:HG3	2.54	0.42
1:N:313:ASN:HB3	1:N:682:GLU:HB3	2.01	0.42
1:N:580:VAL:HG22	1:P:484:TYR:CZ	2.54	0.42
1:O:399:PHE:N	1:O:399:PHE:HD1	2.16	0.42
1:P:238:ARG:NH2	1:P:684:GLU:OE2	2.50	0.42
1:P:250:PRO:HB3	1:Q:658:PRO:HG2	2.01	0.42
1:P:698:GLU:HB2	1:P:700:GLN:NE2	2.33	0.42
1:R:307:PHE:HA	1:R:686:GLU:O	2.19	0.42
1:T:250:PRO:HB3	1:U:658:PRO:HG2	2.01	0.42
1:T:587:SER:HA	1:d:497:ASN:HA	2.00	0.42
1:T:658:PRO:HG2	1:i:250:PRO:HB3	2.01	0.42
1:W:289:HIS:CD2	1:W:365:PRO:HG3	2.54	0.42
1:c:253:ASN:OD1	1:c:375:GLN:NE2	2.52	0.42
1:c:399:PHE:N	1:c:399:PHE:HD1	2.16	0.42
1:c:484:TYR:CZ	1:p:580:VAL:HG22	2.54	0.42
1:d:608:GLN:NE2	1:l:625:THR:HA	2.34	0.42
1:g:615:GLN:HE22	1:g:726:PRO:CA	2.30	0.42
1:h:253:ASN:OD1	1:h:375:GLN:NE2	2.52	0.42
1:i:580:VAL:HG22	1:j:484:TYR:CZ	2.54	0.42
1:j:307:PHE:HA	1:j:686:GLU:O	2.19	0.42
1:o:307:PHE:HA	1:o:686:GLU:O	2.19	0.42
1:q:307:PHE:HA	1:q:686:GLU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:307:PHE:HA	1:t:686:GLU:O	2.19	0.42
1:u:312:LEU:HB3	1:u:414:TYR:HB3	2.01	0.42
1:w:307:PHE:HA	1:w:686:GLU:O	2.19	0.42
1:w:608:GLN:NE2	1:x:625:THR:HA	2.34	0.42
1:z:307:PHE:HA	1:z:686:GLU:O	2.19	0.42
1:2:250:PRO:HB3	1:3:658:PRO:HG2	2.01	0.42
1:4:289:HIS:CD2	1:4:365:PRO:HG3	2.54	0.42
1:5:399:PHE:N	1:5:399:PHE:HD1	2.16	0.42
1:5:587:SER:HA	1:6:497:ASN:HA	2.00	0.42
1:6:307:PHE:HA	1:6:686:GLU:O	2.19	0.42
1:8:307:PHE:HA	1:8:686:GLU:O	2.19	0.42
1:B:484:TYR:CZ	1:L:580:VAL:HG22	2.54	0.42
1:B:580:VAL:HG22	1:J:484:TYR:CZ	2.54	0.42
1:C:433:ARG:HD3	1:C:433:ARG:HA	1.81	0.42
1:E:608:GLN:NE2	1:Q:625:THR:HA	2.34	0.42
1:E:625:THR:HA	1:F:608:GLN:NE2	2.34	0.42
1:G:307:PHE:HA	1:G:686:GLU:O	2.19	0.42
1:I:312:LEU:HB3	1:I:414:TYR:HB3	2.01	0.42
1:J:250:PRO:HB3	1:a:658:PRO:HG2	2.01	0.42
1:M:497:ASN:HA	1:b:587:SER:HA	2.01	0.42
1:N:307:PHE:HA	1:N:686:GLU:O	2.19	0.42
1:O:581:ALA:O	1:m:485:ARG:HD3	2.20	0.42
1:O:625:THR:HA	1:n:608:GLN:NE2	2.34	0.42
1:O:658:PRO:HG2	1:d:250:PRO:HB3	2.01	0.42
1:P:307:PHE:HA	1:P:686:GLU:O	2.19	0.42
1:R:289:HIS:CD2	1:R:365:PRO:HG3	2.54	0.42
1:R:484:TYR:CZ	1:U:580:VAL:HG22	2.54	0.42
1:R:628:HIS:HE1	1:R:641:LYS:HZ3	1.66	0.42
1:S:289:HIS:CD2	1:S:365:PRO:HG3	2.54	0.42
1:S:307:PHE:HA	1:S:686:GLU:O	2.19	0.42
1:T:313:ASN:HB3	1:T:682:GLU:HB3	2.01	0.42
1:T:485:ARG:HD3	1:l:581:ALA:O	2.20	0.42
1:U:253:ASN:OD1	1:U:375:GLN:NE2	2.52	0.42
1:V:580:VAL:HG22	1:e:484:TYR:CZ	2.54	0.42
1:X:307:PHE:HA	1:X:686:GLU:O	2.19	0.42
1:X:698:GLU:HB2	1:X:700:GLN:NE2	2.33	0.42
1:Z:307:PHE:HA	1:Z:686:GLU:O	2.19	0.42
1:d:307:PHE:HA	1:d:686:GLU:O	2.19	0.42
1:e:399:PHE:N	1:e:399:PHE:HD1	2.16	0.42
1:f:397:GLU:OE1	1:f:397:GLU:N	2.51	0.42
1:h:289:HIS:CD2	1:h:365:PRO:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:397:GLU:OE1	1:h:397:GLU:N	2.51	0.42
1:i:307:PHE:HA	1:i:686:GLU:O	2.19	0.42
1:i:313:ASN:HB3	1:i:682:GLU:HB3	2.01	0.42
1:l:397:GLU:OE1	1:l:397:GLU:N	2.51	0.42
1:m:250:PRO:HB3	1:s:658:PRO:HG2	2.01	0.42
1:m:587:SER:HA	1:n:497:ASN:HA	2.00	0.42
1:n:307:PHE:HA	1:n:686:GLU:O	2.19	0.42
1:o:698:GLU:HB2	1:o:700:GLN:NE2	2.33	0.42
1:q:289:HIS:CD2	1:q:365:PRO:HG3	2.54	0.42
1:q:484:TYR:CZ	1:s:580:VAL:HG22	2.54	0.42
1:s:253:ASN:OD1	1:s:375:GLN:NE2	2.52	0.42
1:t:289:HIS:CD2	1:t:365:PRO:HG3	2.54	0.42
1:t:312:LEU:HB3	1:t:414:TYR:HB3	2.01	0.42
1:u:608:GLN:NE2	1:v:625:THR:HA	2.34	0.42
1:w:581:ALA:O	1:x:485:ARG:HD3	2.20	0.42
1:w:625:THR:HA	1:y:608:GLN:NE2	2.34	0.42
1:y:289:HIS:CD2	1:y:365:PRO:HG3	2.54	0.42
1:2:397:GLU:OE1	1:2:397:GLU:N	2.51	0.42
1:6:289:HIS:CD2	1:6:365:PRO:HG3	2.54	0.42
1:6:312:LEU:HB3	1:6:414:TYR:HB3	2.01	0.42
1:8:313:ASN:HB3	1:8:682:GLU:HB3	2.01	0.42
1:A:625:THR:HA	1:I:608:GLN:NE2	2.34	0.42
1:A:658:PRO:HG2	1:B:250:PRO:HB3	2.01	0.42
1:B:397:GLU:OE1	1:B:397:GLU:N	2.51	0.42
1:B:628:HIS:HE1	1:B:641:LYS:HZ3	1.66	0.42
1:D:581:ALA:O	1:N:485:ARG:HD3	2.20	0.42
1:E:581:ALA:O	1:Q:485:ARG:HD3	2.20	0.42
1:E:587:SER:HA	1:Q:497:ASN:HA	2.00	0.42
1:F:289:HIS:CD2	1:F:365:PRO:HG3	2.54	0.42
1:H:250:PRO:HB3	1:I:658:PRO:HG2	2.01	0.42
1:I:253:ASN:OD1	1:I:375:GLN:NE2	2.52	0.42
1:J:397:GLU:OE1	1:J:397:GLU:N	2.51	0.42
1:K:625:THR:HA	1:8:608:GLN:NE2	2.34	0.42
1:O:397:GLU:OE1	1:O:397:GLU:N	2.51	0.42
1:Q:307:PHE:HA	1:Q:686:GLU:O	2.19	0.42
1:R:580:VAL:HG22	1:S:484:TYR:CZ	2.54	0.42
1:T:580:VAL:HG22	1:d:484:TYR:CZ	2.54	0.42
1:V:289:HIS:CD2	1:V:365:PRO:HG3	2.54	0.42
1:W:307:PHE:HA	1:W:686:GLU:O	2.19	0.42
1:W:312:LEU:HB3	1:W:414:TYR:HB3	2.01	0.42
1:Y:698:GLU:HB2	1:Y:700:GLN:NE2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:289:HIS:CD2	1:Z:365:PRO:HG3	2.54	0.42
1:Z:608:GLN:NE2	1:4:625:THR:HA	2.34	0.42
1:Z:658:PRO:HG2	1:a:250:PRO:HB3	2.01	0.42
1:b:250:PRO:HB3	1:o:658:PRO:HG2	2.01	0.42
1:b:397:GLU:OE1	1:b:397:GLU:N	2.51	0.42
1:c:312:LEU:HB3	1:c:414:TYR:HB3	2.01	0.42
1:d:289:HIS:CD2	1:d:365:PRO:HG3	2.54	0.42
1:g:433:ARG:HD3	1:g:433:ARG:HA	1.81	0.42
1:j:238:ARG:NH2	1:j:684:GLU:OE2	2.50	0.42
1:j:698:GLU:HB2	1:j:700:GLN:NE2	2.33	0.42
1:k:397:GLU:OE1	1:k:397:GLU:N	2.51	0.42
1:l:658:PRO:HG2	1:n:250:PRO:HB3	2.01	0.42
1:m:313:ASN:HB3	1:m:682:GLU:HB3	2.01	0.42
1:m:399:PHE:N	1:m:399:PHE:CD1	2.86	0.42
1:m:580:VAL:HG22	1:n:484:TYR:CZ	2.54	0.42
1:p:289:HIS:CD2	1:p:365:PRO:HG3	2.54	0.42
1:p:433:ARG:HA	1:p:433:ARG:HD3	1.81	0.42
1:q:580:VAL:HG22	1:r:484:TYR:CZ	2.54	0.42
1:r:289:HIS:CD2	1:r:365:PRO:HG3	2.54	0.42
1:r:307:PHE:HA	1:r:686:GLU:O	2.19	0.42
1:t:625:THR:HA	1:v:608:GLN:NE2	2.34	0.42
1:u:366:PHE:HA	1:u:367:PRO:HD3	1.95	0.42
1:w:289:HIS:CD2	1:w:365:PRO:HG3	2.54	0.42
1:w:587:SER:HA	1:x:497:ASN:HA	2.00	0.42
1:x:307:PHE:HA	1:x:686:GLU:O	2.19	0.42
1:z:580:VAL:HG22	1:1:484:TYR:CZ	2.54	0.42
1:1:580:VAL:HG22	1:2:484:TYR:CZ	2.54	0.42
1:1:628:HIS:HE1	1:1:641:LYS:HZ3	1.66	0.42
1:5:485:ARG:HD3	1:7:581:ALA:O	2.19	0.42
1:6:608:GLN:NE2	1:7:625:THR:HA	2.34	0.42
1:8:253:ASN:OD1	1:8:375:GLN:NE2	2.52	0.42
1:8:302:ASN:ND2	1:8:701:TYR:H	2.05	0.42
1:8:433:ARG:HD3	1:8:433:ARG:HA	1.81	0.42
1:A:485:ARG:HD3	1:I:581:ALA:O	2.20	0.42
1:A:608:GLN:NE2	1:G:625:THR:HA	2.34	0.42
1:C:608:GLN:NE2	1:b:625:THR:HA	2.34	0.42
1:C:615:GLN:HE22	1:C:726:PRO:CA	2.30	0.42
1:D:312:LEU:HB3	1:D:414:TYR:HB3	2.01	0.42
1:D:397:GLU:OE1	1:D:397:GLU:N	2.51	0.42
1:G:628:HIS:HE1	1:G:641:LYS:HZ3	1.67	0.42
1:H:485:ARG:HD3	1:Y:581:ALA:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:484:TYR:CZ	1:8:580:VAL:HG22	2.54	0.42
1:M:625:THR:HA	1:b:608:GLN:NE2	2.34	0.42
1:R:399:PHE:N	1:R:399:PHE:HD1	2.16	0.42
1:R:625:THR:HA	1:U:608:GLN:NE2	2.34	0.42
1:T:399:PHE:N	1:T:399:PHE:CD1	2.86	0.42
1:W:608:GLN:NE2	1:Y:625:THR:HA	2.34	0.42
1:X:658:PRO:HG2	1:f:250:PRO:HB3	2.01	0.42
1:Z:313:ASN:HB3	1:Z:682:GLU:HB3	2.01	0.42
1:Z:485:ARG:HD3	1:3:581:ALA:O	2.20	0.42
1:b:307:PHE:HA	1:b:686:GLU:O	2.19	0.42
1:e:289:HIS:CD2	1:e:365:PRO:HG3	2.54	0.42
1:f:581:ALA:O	1:h:485:ARG:HD3	2.20	0.42
1:f:625:THR:HA	1:g:608:GLN:NE2	2.34	0.42
1:i:485:ARG:HD3	1:k:581:ALA:O	2.20	0.42
1:k:312:LEU:HB3	1:k:414:TYR:HB3	2.01	0.42
1:m:608:GLN:NE2	1:n:625:THR:HA	2.34	0.42
1:n:289:HIS:CD2	1:n:365:PRO:HG3	2.54	0.42
1:q:399:PHE:N	1:q:399:PHE:HD1	2.16	0.42
1:q:628:HIS:HE1	1:q:641:LYS:HZ3	1.65	0.42
1:t:253:ASN:OD1	1:t:375:GLN:NE2	2.52	0.42
1:u:253:ASN:OD1	1:u:375:GLN:NE2	2.52	0.42
1:u:581:ALA:O	1:v:485:ARG:HD3	2.20	0.42
1:v:658:PRO:HG2	1:1:250:PRO:HB3	2.01	0.42
1:x:580:VAL:HG22	1:y:484:TYR:CZ	2.54	0.42
1:z:608:GLN:NE2	1:1:625:THR:HA	2.34	0.42
1:5:625:THR:HA	1:7:608:GLN:NE2	2.34	0.42
1:6:313:ASN:HB3	1:6:682:GLU:HB3	2.01	0.42
1:B:625:THR:HA	1:L:608:GLN:NE2	2.34	0.42
1:C:289:HIS:CD2	1:C:365:PRO:HG3	2.54	0.42
1:C:658:PRO:HG2	1:D:250:PRO:HB3	2.01	0.42
1:E:289:HIS:CD2	1:E:365:PRO:HG3	2.54	0.42
1:G:253:ASN:OD1	1:G:375:GLN:NE2	2.52	0.42
1:K:397:GLU:OE1	1:K:397:GLU:N	2.51	0.42
1:K:575:GLU:HG2	1:8:584:PHE:CZ	2.51	0.42
1:M:698:GLU:HB2	1:M:700:GLN:NE2	2.33	0.42
1:N:302:ASN:ND2	1:N:701:TYR:H	2.05	0.42
1:R:485:ARG:HD3	1:U:581:ALA:O	2.20	0.42
1:T:608:GLN:NE2	1:d:625:THR:HA	2.34	0.42
1:V:433:ARG:HA	1:V:433:ARG:HD3	1.81	0.42
1:W:313:ASN:HB3	1:W:682:GLU:HB3	2.01	0.42
1:W:397:GLU:OE1	1:W:397:GLU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:253:ASN:OD1	1:Z:375:GLN:NE2	2.52	0.42
1:Z:580:VAL:HG22	1:4:484:TYR:CZ	2.54	0.42
1:a:581:ALA:O	1:8:485:ARG:HD3	2.20	0.42
1:c:289:HIS:CD2	1:c:365:PRO:HG3	2.54	0.42
1:c:608:GLN:NE2	1:o:625:THR:HA	2.34	0.42
1:e:312:LEU:HB3	1:e:414:TYR:HB3	2.01	0.42
1:f:307:PHE:HA	1:f:686:GLU:O	2.19	0.42
1:f:608:GLN:NE2	1:h:625:THR:HA	2.34	0.42
1:g:289:HIS:CD2	1:g:365:PRO:HG3	2.54	0.42
1:h:698:GLU:HB2	1:h:700:GLN:NE2	2.33	0.42
1:o:313:ASN:HB3	1:o:682:GLU:HB3	2.01	0.42
1:q:485:ARG:HD3	1:s:581:ALA:O	2.20	0.42
1:q:625:THR:HA	1:s:608:GLN:NE2	2.34	0.42
1:r:628:HIS:HE1	1:r:641:LYS:HZ3	1.67	0.42
1:u:307:PHE:HA	1:u:686:GLU:O	2.19	0.42
1:u:658:PRO:HG2	1:5:250:PRO:HB3	2.01	0.42
1:w:399:PHE:N	1:w:399:PHE:HD1	2.16	0.42
1:z:584:PHE:CZ	1:1:575:GLU:HG2	2.51	0.42
1:1:397:GLU:OE1	1:1:397:GLU:N	2.51	0.42
1:3:250:PRO:HB3	1:8:658:PRO:HG2	2.01	0.42
1:5:698:GLU:HB2	1:5:700:GLN:NE2	2.33	0.42
1:7:698:GLU:HB2	1:7:700:GLN:NE2	2.33	0.42
1:A:575:GLU:HG2	1:I:584:PHE:CZ	2.51	0.42
1:B:581:ALA:O	1:J:485:ARG:HD3	2.19	0.42
1:C:273:TYR:HA	1:C:382:ASN:ND2	2.35	0.42
1:D:307:PHE:HA	1:D:686:GLU:O	2.19	0.42
1:D:580:VAL:HG22	1:N:484:TYR:CZ	2.54	0.42
1:D:625:THR:HA	1:P:608:GLN:NE2	2.34	0.42
1:D:658:PRO:HG2	1:E:250:PRO:HB3	2.01	0.42
1:E:273:TYR:HA	1:E:382:ASN:ND2	2.35	0.42
1:E:399:PHE:N	1:E:399:PHE:HD1	2.16	0.42
1:E:485:ARG:HD3	1:F:581:ALA:O	2.20	0.42
1:F:399:PHE:N	1:F:399:PHE:HD1	2.16	0.42
1:F:484:TYR:CZ	1:Q:580:VAL:HG22	2.54	0.42
1:H:625:THR:HA	1:Y:608:GLN:NE2	2.34	0.42
1:N:581:ALA:O	1:P:485:ARG:HD3	2.20	0.42
1:O:238:ARG:NH2	1:O:684:GLU:OE2	2.50	0.42
1:O:253:ASN:OD1	1:O:375:GLN:NE2	2.52	0.42
1:T:581:ALA:O	1:d:485:ARG:HD3	2.20	0.42
1:W:273:TYR:HA	1:W:382:ASN:ND2	2.35	0.42
1:X:625:THR:HA	1:e:608:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:581:ALA:O	1:4:485:ARG:HD3	2.20	0.42
1:a:307:PHE:HA	1:a:686:GLU:O	2.19	0.42
1:b:302:ASN:ND2	1:b:701:TYR:H	2.05	0.42
1:f:313:ASN:HB3	1:f:682:GLU:HB3	2.01	0.42
1:f:658:PRO:HG2	1:z:250:PRO:HB3	2.01	0.42
1:g:485:ARG:HD3	1:h:581:ALA:O	2.20	0.42
1:g:658:PRO:HG2	1:k:250:PRO:HB3	2.01	0.42
1:i:484:TYR:CZ	1:k:580:VAL:HG22	2.54	0.42
1:i:581:ALA:O	1:j:485:ARG:HD3	2.20	0.42
1:j:608:GLN:NE2	1:k:625:THR:HA	2.34	0.42
1:k:307:PHE:HA	1:k:686:GLU:O	2.19	0.42
1:l:253:ASN:OD1	1:l:375:GLN:NE2	2.52	0.42
1:n:366:PHE:HA	1:n:367:PRO:HD3	1.95	0.42
1:q:250:PRO:HB3	1:y:658:PRO:HG2	2.01	0.42
1:q:312:LEU:HB3	1:q:414:TYR:HB3	2.01	0.42
1:u:584:PHE:CZ	1:v:575:GLU:HG2	2.51	0.42
1:w:273:TYR:HA	1:w:382:ASN:ND2	2.35	0.42
1:w:485:ARG:HD3	1:y:581:ALA:O	2.20	0.42
1:y:399:PHE:N	1:y:399:PHE:HD1	2.16	0.42
1:3:307:PHE:HA	1:3:686:GLU:O	2.19	0.42
1:5:581:ALA:O	1:6:485:ARG:HD3	2.20	0.42
1:6:397:GLU:OE1	1:6:397:GLU:N	2.51	0.42
1:A:250:PRO:HB3	1:E:658:PRO:HG2	2.01	0.42
1:A:273:TYR:HA	1:A:382:ASN:ND2	2.35	0.42
1:C:528:LYS:NZ	1:C:575:GLU:OE2	2.38	0.42
1:E:238:ARG:NH2	1:E:684:GLU:OE2	2.50	0.42
1:F:250:PRO:HB3	1:G:658:PRO:HG2	2.01	0.42
1:F:366:PHE:HA	1:F:367:PRO:HD3	1.95	0.42
1:F:433:ARG:HD3	1:F:433:ARG:HA	1.81	0.42
1:F:485:ARG:HD3	1:Q:581:ALA:O	2.20	0.42
1:F:658:PRO:HG2	1:R:250:PRO:HB3	2.01	0.42
1:G:536:PRO:HG3	1:G:573:ALA:HB3	2.02	0.42
1:H:581:ALA:O	1:W:485:ARG:HD3	2.20	0.42
1:H:608:GLN:NE2	1:W:625:THR:HA	2.34	0.42
1:H:698:GLU:HB2	1:H:700:GLN:NE2	2.33	0.42
1:I:250:PRO:HB3	1:J:658:PRO:HG2	2.01	0.42
1:I:307:PHE:HA	1:I:686:GLU:O	2.19	0.42
1:I:366:PHE:HA	1:I:367:PRO:HD3	1.95	0.42
1:I:397:GLU:OE1	1:I:397:GLU:N	2.51	0.42
1:L:250:PRO:HB3	1:b:658:PRO:HG2	2.01	0.42
1:R:312:LEU:HB3	1:R:414:TYR:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:581:ALA:O	1:S:485:ARG:HD3	2.19	0.42
1:T:238:ARG:NH2	1:T:684:GLU:OE2	2.50	0.42
1:X:313:ASN:HB3	1:X:682:GLU:HB3	2.01	0.42
1:Y:313:ASN:HB3	1:Y:682:GLU:HB3	2.01	0.42
1:Z:273:TYR:HA	1:Z:382:ASN:ND2	2.35	0.42
1:Z:302:ASN:ND2	1:Z:701:TYR:H	2.05	0.42
1:b:313:ASN:HB3	1:b:682:GLU:HB3	2.01	0.42
1:f:580:VAL:HG22	1:h:484:TYR:CZ	2.54	0.42
1:g:273:TYR:HA	1:g:382:ASN:ND2	2.35	0.42
1:g:625:THR:HA	1:h:608:GLN:NE2	2.34	0.42
1:k:658:PRO:HG2	1:w:250:PRO:HB3	2.01	0.42
1:l:313:ASN:HB3	1:l:682:GLU:HB3	2.01	0.42
1:m:536:PRO:HG3	1:m:573:ALA:HB3	2.02	0.42
1:m:581:ALA:O	1:n:485:ARG:HD3	2.20	0.42
1:p:307:PHE:HA	1:p:686:GLU:O	2.19	0.42
1:q:497:ASN:HA	1:s:587:SER:HA	2.00	0.42
1:s:238:ARG:NH2	1:s:684:GLU:OE2	2.50	0.42
1:t:658:PRO:HG2	1:y:250:PRO:HB3	2.01	0.42
1:u:250:PRO:HB3	1:2:658:PRO:HG2	2.01	0.42
1:v:250:PRO:HB3	1:w:658:PRO:HG2	2.01	0.42
1:v:273:TYR:HA	1:v:382:ASN:ND2	2.35	0.42
1:w:238:ARG:NH2	1:w:684:GLU:OE2	2.50	0.42
1:x:581:ALA:O	1:y:485:ARG:HD3	2.20	0.42
1:z:289:HIS:CD2	1:z:365:PRO:HG3	2.54	0.42
1:z:625:THR:HA	1:2:608:GLN:NE2	2.34	0.42
1:1:581:ALA:O	1:2:485:ARG:HD3	2.19	0.42
1:4:253:ASN:OD1	1:4:375:GLN:NE2	2.52	0.42
1:4:313:ASN:HB3	1:4:682:GLU:HB3	2.01	0.42
1:4:397:GLU:OE1	1:4:397:GLU:N	2.51	0.42
1:5:307:PHE:HA	1:5:686:GLU:O	2.19	0.42
1:5:608:GLN:NE2	1:6:625:THR:HA	2.34	0.42
1:6:273:TYR:HA	1:6:382:ASN:ND2	2.35	0.42
1:6:322:LYS:HZ3	1:6:335:ASN:ND2	2.18	0.42
1:7:313:ASN:HB3	1:7:682:GLU:HB3	2.01	0.42
1:B:273:TYR:HA	1:B:382:ASN:ND2	2.35	0.42
1:B:575:GLU:HG2	1:L:584:PHE:CZ	2.51	0.42
1:D:484:TYR:CZ	1:P:580:VAL:HG22	2.54	0.42
1:F:312:LEU:HB3	1:F:414:TYR:HB3	2.01	0.42
1:G:273:TYR:HA	1:G:382:ASN:ND2	2.35	0.42
1:H:397:GLU:OE1	1:H:397:GLU:N	2.51	0.42
1:H:484:TYR:CZ	1:Y:580:VAL:HG22	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:302:ASN:ND2	1:I:701:TYR:H	2.05	0.42
1:J:307:PHE:HA	1:J:686:GLU:O	2.19	0.42
1:K:253:ASN:OD1	1:K:375:GLN:NE2	2.52	0.42
1:K:433:ARG:HD3	1:K:433:ARG:HA	1.81	0.42
1:L:289:HIS:CD2	1:L:365:PRO:HG3	2.54	0.42
1:M:307:PHE:HA	1:M:686:GLU:O	2.19	0.42
1:M:386:GLN:HB3	1:c:708:SER:O	2.20	0.42
1:M:615:GLN:HE22	1:M:726:PRO:CA	2.30	0.42
1:P:628:HIS:HE1	1:P:641:LYS:HZ3	1.66	0.42
1:Q:397:GLU:OE1	1:Q:397:GLU:N	2.51	0.42
1:S:698:GLU:HB2	1:S:700:GLN:NE2	2.33	0.42
1:T:536:PRO:HG3	1:T:573:ALA:HB3	2.02	0.42
1:U:238:ARG:NH2	1:U:684:GLU:OE2	2.50	0.42
1:U:536:PRO:HG3	1:U:573:ALA:HB3	2.02	0.42
1:V:307:PHE:HA	1:V:686:GLU:O	2.19	0.42
1:W:581:ALA:O	1:Y:485:ARG:HD3	2.20	0.42
1:a:289:HIS:CD2	1:a:365:PRO:HG3	2.54	0.42
1:h:615:GLN:HE22	1:h:726:PRO:CA	2.30	0.42
1:o:250:PRO:HB3	1:7:658:PRO:HG2	2.01	0.42
1:o:580:VAL:HG22	1:p:484:TYR:CZ	2.54	0.42
1:q:581:ALA:O	1:r:485:ARG:HD3	2.19	0.42
1:s:615:GLN:HE22	1:s:726:PRO:CA	2.30	0.42
1:t:273:TYR:HA	1:t:382:ASN:ND2	2.35	0.42
1:t:536:PRO:HG3	1:t:573:ALA:HB3	2.02	0.42
1:w:580:VAL:HG22	1:x:484:TYR:CZ	2.54	0.42
1:x:397:GLU:OE1	1:x:397:GLU:N	2.51	0.42
1:y:312:LEU:HB3	1:y:414:TYR:HB3	2.01	0.42
1:1:273:TYR:HA	1:1:382:ASN:ND2	2.35	0.42
1:5:484:TYR:CZ	1:7:580:VAL:HG22	2.54	0.42
1:6:581:ALA:O	1:7:485:ARG:HD3	2.20	0.42
1:A:313:ASN:HB3	1:A:682:GLU:HB3	2.01	0.42
1:D:615:GLN:HE22	1:D:726:PRO:CA	2.30	0.42
1:E:580:VAL:HG22	1:Q:484:TYR:CZ	2.54	0.42
1:F:536:PRO:HG3	1:F:573:ALA:HB3	2.02	0.42
1:H:312:LEU:HB3	1:H:414:TYR:HB3	2.01	0.42
1:J:488:ARG:HB2	1:J:574:THR:HB	2.02	0.42
1:J:580:VAL:HG22	1:L:484:TYR:CZ	2.54	0.42
1:J:608:GLN:NE2	1:L:625:THR:HA	2.34	0.42
1:K:485:ARG:HD3	1:8:581:ALA:O	2.20	0.42
1:O:313:ASN:HB3	1:O:682:GLU:HB3	2.01	0.42
1:P:536:PRO:HG3	1:P:573:ALA:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:313:ASN:HB3	1:R:682:GLU:HB3	2.01	0.42
1:R:497:ASN:HA	1:U:587:SER:HA	2.00	0.42
1:R:658:PRO:HG2	1:V:250:PRO:HB3	2.01	0.42
1:S:273:TYR:HA	1:S:382:ASN:ND2	2.35	0.42
1:S:488:ARG:HB2	1:S:574:THR:HB	2.02	0.42
1:T:322:LYS:HZ3	1:T:335:ASN:ND2	2.18	0.42
1:U:273:TYR:HA	1:U:382:ASN:ND2	2.35	0.42
1:U:615:GLN:HE22	1:U:726:PRO:CA	2.30	0.42
1:V:658:PRO:HG2	1:W:250:PRO:HB3	2.01	0.42
1:W:366:PHE:HA	1:W:367:PRO:HD3	1.95	0.42
1:Y:488:ARG:HB2	1:Y:574:THR:HB	2.02	0.42
1:Z:433:ARG:HD3	1:Z:433:ARG:HA	1.81	0.42
1:d:273:TYR:HA	1:d:382:ASN:ND2	2.35	0.42
1:h:488:ARG:HB2	1:h:574:THR:HB	2.02	0.42
1:j:536:PRO:HG3	1:j:573:ALA:HB3	2.02	0.42
1:j:580:VAL:HG22	1:k:484:TYR:CZ	2.54	0.42
1:k:615:GLN:HE22	1:k:726:PRO:CA	2.30	0.42
1:k:628:HIS:HE1	1:k:641:LYS:HZ3	1.67	0.42
1:l:238:ARG:NH2	1:l:684:GLU:OE2	2.50	0.42
1:n:273:TYR:HA	1:n:382:ASN:ND2	2.35	0.42
1:q:608:GLN:NE2	1:r:625:THR:HA	2.34	0.42
1:r:488:ARG:HB2	1:r:574:THR:HB	2.02	0.42
1:s:536:PRO:HG3	1:s:573:ALA:HB3	2.02	0.42
1:u:397:GLU:OE1	1:u:397:GLU:N	2.51	0.42
1:y:253:ASN:OD1	1:y:375:GLN:NE2	2.52	0.42
1:y:433:ARG:HD3	1:y:433:ARG:HA	1.81	0.42
1:y:536:PRO:HG3	1:y:573:ALA:HB3	2.02	0.42
1:z:273:TYR:HA	1:z:382:ASN:ND2	2.35	0.42
1:z:484:TYR:CZ	1:2:580:VAL:HG22	2.54	0.42
1:2:307:PHE:HA	1:2:686:GLU:O	2.19	0.42
1:2:488:ARG:HB2	1:2:574:THR:HB	2.02	0.42
1:4:273:TYR:HA	1:4:382:ASN:ND2	2.35	0.42
1:7:307:PHE:HA	1:7:686:GLU:O	2.19	0.42
1:7:488:ARG:HB2	1:7:574:THR:HB	2.02	0.42
1:B:488:ARG:HB2	1:B:574:THR:HB	2.02	0.42
1:B:608:GLN:NE2	1:J:625:THR:HA	2.34	0.42
1:C:581:ALA:O	1:b:485:ARG:HD3	2.20	0.42
1:F:253:ASN:OD1	1:F:375:GLN:NE2	2.52	0.42
1:F:628:HIS:HE1	1:F:641:LYS:HZ3	1.67	0.42
1:G:397:GLU:OE1	1:G:397:GLU:N	2.51	0.42
1:H:273:TYR:HA	1:H:382:ASN:ND2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:307:PHE:HA	1:H:686:GLU:O	2.19	0.42
1:K:273:TYR:HA	1:K:382:ASN:ND2	2.35	0.42
1:K:313:ASN:HB3	1:K:682:GLU:HB3	2.01	0.42
1:L:273:TYR:HA	1:L:382:ASN:ND2	2.35	0.42
1:M:488:ARG:HB2	1:M:574:THR:HB	2.02	0.42
1:R:608:GLN:NE2	1:S:625:THR:HA	2.34	0.42
1:V:484:TYR:CZ	1:X:580:VAL:HG22	2.54	0.42
1:X:250:PRO:HB3	1:Y:658:PRO:HG2	2.01	0.42
1:X:536:PRO:HG3	1:X:573:ALA:HB3	2.02	0.42
1:a:580:VAL:HG22	1:8:484:TYR:CZ	2.54	0.42
1:c:615:GLN:HE22	1:c:726:PRO:CA	2.30	0.42
1:c:658:PRO:HG2	1:s:250:PRO:HB3	2.01	0.42
1:f:302:ASN:ND2	1:f:701:TYR:H	2.05	0.42
1:i:302:ASN:ND2	1:i:701:TYR:H	2.05	0.42
1:k:273:TYR:HA	1:k:382:ASN:ND2	2.35	0.42
1:m:238:ARG:NH2	1:m:684:GLU:OE2	2.50	0.42
1:m:273:TYR:HA	1:m:382:ASN:ND2	2.35	0.42
1:r:273:TYR:HA	1:r:382:ASN:ND2	2.35	0.42
1:s:273:TYR:HA	1:s:382:ASN:ND2	2.35	0.42
1:t:397:GLU:OE1	1:t:397:GLU:N	2.51	0.42
1:z:485:ARG:HD3	1:2:581:ALA:O	2.20	0.42
1:1:488:ARG:HB2	1:1:574:THR:HB	2.02	0.42
1:3:289:HIS:CD2	1:3:365:PRO:HG3	2.54	0.42
1:3:485:ARG:HD3	1:4:581:ALA:O	2.20	0.42
1:5:273:TYR:HA	1:5:382:ASN:ND2	2.35	0.42
1:5:397:GLU:OE1	1:5:397:GLU:N	2.51	0.42
1:8:273:TYR:HA	1:8:382:ASN:ND2	2.35	0.42
1:8:312:LEU:HB3	1:8:414:TYR:HB3	2.01	0.42
1:D:273:TYR:HA	1:D:382:ASN:ND2	2.35	0.41
1:J:581:ALA:O	1:L:485:ARG:HD3	2.20	0.41
1:K:581:ALA:O	1:a:485:ARG:HD3	2.20	0.41
1:K:608:GLN:NE2	1:a:625:THR:HA	2.34	0.41
1:M:628:HIS:HE1	1:M:641:LYS:HZ3	1.67	0.41
1:O:580:VAL:HG22	1:m:484:TYR:CZ	2.54	0.41
1:Q:536:PRO:HG3	1:Q:573:ALA:HB3	2.02	0.41
1:T:273:TYR:HA	1:T:382:ASN:ND2	2.35	0.41
1:T:484:TYR:CZ	1:l:580:VAL:HG22	2.54	0.41
1:T:625:THR:HA	1:l:608:GLN:NE2	2.34	0.41
1:X:289:HIS:CD2	1:X:365:PRO:HG3	2.54	0.41
1:Y:307:PHE:HA	1:Y:686:GLU:O	2.19	0.41
1:Z:312:LEU:HB3	1:Z:414:TYR:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:312:LEU:HB3	1:a:414:TYR:HB3	2.01	0.41
1:d:628:HIS:HE1	1:d:641:LYS:HZ3	1.67	0.41
1:f:485:ARG:HD3	1:g:581:ALA:O	2.20	0.41
1:g:497:ASN:HA	1:h:587:SER:HA	2.00	0.41
1:h:307:PHE:HA	1:h:686:GLU:O	2.19	0.41
1:i:536:PRO:HG3	1:i:573:ALA:HB3	2.02	0.41
1:l:273:TYR:HA	1:l:382:ASN:ND2	2.35	0.41
1:o:289:HIS:CD2	1:o:365:PRO:HG3	2.54	0.41
1:o:536:PRO:HG3	1:o:573:ALA:HB3	2.02	0.41
1:p:250:PRO:HB3	1:q:658:PRO:HG2	2.01	0.41
1:p:658:PRO:HG2	1:6:250:PRO:HB3	2.01	0.41
1:q:313:ASN:HB3	1:q:682:GLU:HB3	2.01	0.41
1:r:698:GLU:HB2	1:r:700:GLN:NE2	2.33	0.41
1:s:313:ASN:HB3	1:s:682:GLU:HB3	2.01	0.41
1:t:485:ARG:HD3	1:v:581:ALA:O	2.20	0.41
1:u:302:ASN:ND2	1:u:701:TYR:H	2.05	0.41
1:v:313:ASN:HB3	1:v:682:GLU:HB3	2.01	0.41
1:x:536:PRO:HG3	1:x:573:ALA:HB3	2.02	0.41
1:y:366:PHE:HA	1:y:367:PRO:HD3	1.95	0.41
1:1:608:GLN:NE2	1:2:625:THR:HA	2.34	0.41
1:3:312:LEU:HB3	1:3:414:TYR:HB3	2.01	0.41
1:5:312:LEU:HB3	1:5:414:TYR:HB3	2.01	0.41
1:6:238:ARG:NH2	1:6:684:GLU:OE2	2.50	0.41
1:A:581:ALA:O	1:G:485:ARG:HD3	2.20	0.41
1:G:608:GLN:NE2	1:I:625:THR:HA	2.34	0.41
1:I:273:TYR:HA	1:I:382:ASN:ND2	2.35	0.41
1:I:536:PRO:HG3	1:I:573:ALA:HB3	2.02	0.41
1:J:628:HIS:HE1	1:J:641:LYS:HZ3	1.68	0.41
1:N:536:PRO:HG3	1:N:573:ALA:HB3	2.02	0.41
1:O:273:TYR:HA	1:O:382:ASN:ND2	2.35	0.41
1:O:608:GLN:NE2	1:m:625:THR:HA	2.34	0.41
1:T:312:LEU:HB3	1:T:414:TYR:HB3	2.01	0.41
1:U:250:PRO:HB3	1:e:658:PRO:HG2	2.01	0.41
1:b:273:TYR:HA	1:b:382:ASN:ND2	2.35	0.41
1:g:528:LYS:NZ	1:g:575:GLU:OE2	2.38	0.41
1:h:250:PRO:HB3	1:i:658:PRO:HG2	2.01	0.41
1:m:312:LEU:HB3	1:m:414:TYR:HB3	2.01	0.41
1:n:628:HIS:HE1	1:n:641:LYS:HZ3	1.67	0.41
1:t:608:GLN:NE2	1:u:625:THR:HA	2.34	0.41
1:y:628:HIS:HE1	1:y:641:LYS:HZ3	1.67	0.41
1:3:536:PRO:HG3	1:3:573:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:625:THR:HA	1:4:608:GLN:NE2	2.34	0.41
1:6:366:PHE:HA	1:6:367:PRO:HD3	1.95	0.41
1:C:698:GLU:HB2	1:C:700:GLN:NE2	2.33	0.41
1:H:584:PHE:CZ	1:W:575:GLU:HG2	2.51	0.41
1:J:536:PRO:HG3	1:J:573:ALA:HB3	2.02	0.41
1:J:615:GLN:HE22	1:J:726:PRO:CA	2.30	0.41
1:K:488:ARG:HB2	1:K:574:THR:HB	2.02	0.41
1:N:488:ARG:HB2	1:N:574:THR:HB	2.02	0.41
1:R:397:GLU:OE1	1:R:397:GLU:N	2.51	0.41
1:S:581:ALA:O	1:U:485:ARG:HD3	2.20	0.41
1:S:608:GLN:NE2	1:U:625:THR:HA	2.34	0.41
1:U:313:ASN:HB3	1:U:682:GLU:HB3	2.01	0.41
1:W:433:ARG:HD3	1:W:433:ARG:HA	1.81	0.41
1:X:488:ARG:HB2	1:X:574:THR:HB	2.02	0.41
1:Z:484:TYR:CZ	1:3:580:VAL:HG22	2.54	0.41
1:a:273:TYR:HA	1:a:382:ASN:ND2	2.35	0.41
1:a:488:ARG:HB2	1:a:574:THR:HB	2.02	0.41
1:a:536:PRO:HG3	1:a:573:ALA:HB3	2.02	0.41
1:c:488:ARG:HB2	1:c:574:THR:HB	2.02	0.41
1:d:488:ARG:HB2	1:d:574:THR:HB	2.02	0.41
1:e:488:ARG:HB2	1:e:574:THR:HB	2.02	0.41
1:f:273:TYR:HA	1:f:382:ASN:ND2	2.35	0.41
1:f:584:PHE:CZ	1:h:575:GLU:HG2	2.51	0.41
1:g:250:PRO:HB3	1:l:658:PRO:HG2	2.01	0.41
1:n:488:ARG:HB2	1:n:574:THR:HB	2.02	0.41
1:n:536:PRO:HG3	1:n:573:ALA:HB3	2.02	0.41
1:o:488:ARG:HB2	1:o:574:THR:HB	2.02	0.41
1:r:608:GLN:NE2	1:s:625:THR:HA	2.34	0.41
1:u:273:TYR:HA	1:u:382:ASN:ND2	2.35	0.41
1:u:536:PRO:HG3	1:u:573:ALA:HB3	2.02	0.41
1:v:397:GLU:OE1	1:v:397:GLU:N	2.51	0.41
1:w:312:LEU:HB3	1:w:414:TYR:HB3	2.01	0.41
1:2:536:PRO:HG3	1:2:573:ALA:HB3	2.02	0.41
1:3:273:TYR:HA	1:3:382:ASN:ND2	2.35	0.41
1:4:488:ARG:HB2	1:4:574:THR:HB	2.02	0.41
1:5:488:ARG:HB2	1:5:574:THR:HB	2.02	0.41
1:5:584:PHE:CZ	1:6:575:GLU:HG2	2.51	0.41
1:7:536:PRO:HG3	1:7:573:ALA:HB3	2.02	0.41
1:B:658:PRO:HG2	1:C:250:PRO:HB3	2.01	0.41
1:E:312:LEU:HB3	1:E:414:TYR:HB3	2.01	0.41
1:I:488:ARG:HB2	1:I:574:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:397:GLU:OE1	1:N:397:GLU:N	2.51	0.41
1:O:433:ARG:HA	1:O:433:ARG:HD3	1.81	0.41
1:O:488:ARG:HB2	1:O:574:THR:HB	2.02	0.41
1:P:559:MET:SD	1:P:725:ARG:HA	2.61	0.41
1:P:708:SER:O	1:Q:386:GLN:HB3	2.21	0.41
1:R:536:PRO:HG3	1:R:573:ALA:HB3	2.02	0.41
1:T:397:GLU:OE1	1:T:397:GLU:N	2.51	0.41
1:W:238:ARG:NH2	1:W:684:GLU:OE2	2.50	0.41
1:X:273:TYR:HA	1:X:382:ASN:ND2	2.35	0.41
1:Y:273:TYR:HA	1:Y:382:ASN:ND2	2.35	0.41
1:Z:690:GLU:OE2	1:Z:692:SER:HB3	2.21	0.41
1:b:615:GLN:HE22	1:b:726:PRO:CA	2.30	0.41
1:c:581:ALA:O	1:o:485:ARG:HD3	2.20	0.41
1:d:536:PRO:HG3	1:d:573:ALA:HB3	2.02	0.41
1:g:698:GLU:HB2	1:g:700:GLN:NE2	2.33	0.41
1:h:536:PRO:HG3	1:h:573:ALA:HB3	2.02	0.41
1:i:397:GLU:OE1	1:i:397:GLU:N	2.51	0.41
1:i:488:ARG:HB2	1:i:574:THR:HB	2.02	0.41
1:j:559:MET:SD	1:j:725:ARG:HA	2.61	0.41
1:k:559:MET:SD	1:k:725:ARG:HA	2.61	0.41
1:l:433:ARG:HA	1:l:433:ARG:HD3	1.81	0.41
1:o:273:TYR:HA	1:o:382:ASN:ND2	2.35	0.41
1:p:273:TYR:HA	1:p:382:ASN:ND2	2.35	0.41
1:q:536:PRO:HG3	1:q:573:ALA:HB3	2.02	0.41
1:r:581:ALA:O	1:s:485:ARG:HD3	2.20	0.41
1:u:488:ARG:HB2	1:u:574:THR:HB	2.02	0.41
1:v:690:GLU:OE2	1:y:299:ARG:NH2	2.54	0.41
1:x:273:TYR:HA	1:x:382:ASN:ND2	2.35	0.41
1:x:488:ARG:HB2	1:x:574:THR:HB	2.02	0.41
1:6:536:PRO:HG3	1:6:573:ALA:HB3	2.02	0.41
1:8:690:GLU:OE2	1:8:692:SER:HB3	2.21	0.41
1:A:397:GLU:OE1	1:A:397:GLU:N	2.51	0.41
1:A:690:GLU:OE2	1:F:299:ARG:NH2	2.54	0.41
1:D:559:MET:SD	1:D:725:ARG:HA	2.61	0.41
1:D:608:GLN:NE2	1:N:625:THR:HA	2.34	0.41
1:D:690:GLU:OE2	1:D:692:SER:HB3	2.21	0.41
1:E:488:ARG:HB2	1:E:574:THR:HB	2.02	0.41
1:E:559:MET:SD	1:E:725:ARG:HA	2.61	0.41
1:H:559:MET:SD	1:H:725:ARG:HA	2.61	0.41
1:L:488:ARG:HB2	1:L:574:THR:HB	2.02	0.41
1:L:536:PRO:HG3	1:L:573:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:386:GLN:HB3	1:d:708:SER:O	2.21	0.41
1:Q:273:TYR:HA	1:Q:382:ASN:ND2	2.35	0.41
1:Q:488:ARG:HB2	1:Q:574:THR:HB	2.02	0.41
1:U:698:GLU:HB2	1:U:700:GLN:NE2	2.33	0.41
1:V:273:TYR:HA	1:V:382:ASN:ND2	2.35	0.41
1:V:485:ARG:HD3	1:X:581:ALA:O	2.20	0.41
1:V:559:MET:SD	1:V:725:ARG:HA	2.61	0.41
1:V:575:GLU:HG2	1:X:584:PHE:CZ	2.51	0.41
1:W:536:PRO:HG3	1:W:573:ALA:HB3	2.02	0.41
1:Y:536:PRO:HG3	1:Y:573:ALA:HB3	2.02	0.41
1:Z:536:PRO:HG3	1:Z:573:ALA:HB3	2.02	0.41
1:a:299:ARG:NH2	1:3:690:GLU:OE2	2.54	0.41
1:b:690:GLU:OE2	1:b:692:SER:HB3	2.21	0.41
1:d:690:GLU:OE2	1:d:692:SER:HB3	2.21	0.41
1:h:690:GLU:OE2	1:h:692:SER:HB3	2.21	0.41
1:i:625:THR:HA	1:k:608:GLN:NE2	2.34	0.41
1:j:708:SER:O	1:x:386:GLN:HB3	2.21	0.41
1:k:690:GLU:OE2	1:k:692:SER:HB3	2.21	0.41
1:l:386:GLN:HB3	1:n:708:SER:O	2.21	0.41
1:o:581:ALA:O	1:p:485:ARG:HD3	2.20	0.41
1:o:584:PHE:CZ	1:p:575:GLU:HG2	2.51	0.41
1:q:397:GLU:OE1	1:q:397:GLU:N	2.51	0.41
1:u:708:SER:O	1:2:386:GLN:HB3	2.21	0.41
1:1:536:PRO:HG3	1:1:573:ALA:HB3	2.02	0.41
1:2:273:TYR:HA	1:2:382:ASN:ND2	2.35	0.41
1:3:488:ARG:HB2	1:3:574:THR:HB	2.02	0.41
1:5:559:MET:SD	1:5:725:ARG:HA	2.61	0.41
1:B:536:PRO:HG3	1:B:573:ALA:HB3	2.02	0.41
1:C:559:MET:SD	1:C:725:ARG:HA	2.61	0.41
1:D:488:ARG:HB2	1:D:574:THR:HB	2.02	0.41
1:G:581:ALA:O	1:I:485:ARG:HD3	2.19	0.41
1:G:708:SER:O	1:W:386:GLN:HB3	2.21	0.41
1:H:386:GLN:HB3	1:Z:708:SER:O	2.21	0.41
1:I:708:SER:O	1:J:386:GLN:HB3	2.21	0.41
1:J:273:TYR:HA	1:J:382:ASN:ND2	2.35	0.41
1:K:584:PHE:CZ	1:a:575:GLU:HG2	2.51	0.41
1:L:615:GLN:HE22	1:L:726:PRO:CA	2.30	0.41
1:M:536:PRO:HG3	1:M:573:ALA:HB3	2.02	0.41
1:M:690:GLU:OE2	1:M:692:SER:HB3	2.21	0.41
1:P:273:TYR:HA	1:P:382:ASN:ND2	2.35	0.41
1:R:386:GLN:HB3	1:V:708:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:536:PRO:HG3	1:S:573:ALA:HB3	2.02	0.41
1:U:488:ARG:HB2	1:U:574:THR:HB	2.02	0.41
1:V:488:ARG:HB2	1:V:574:THR:HB	2.02	0.41
1:X:485:ARG:HD3	1:e:581:ALA:O	2.20	0.41
1:X:559:MET:SD	1:X:725:ARG:HA	2.61	0.41
1:Z:559:MET:SD	1:Z:725:ARG:HA	2.61	0.41
1:a:690:GLU:OE2	1:3:299:ARG:NH2	2.54	0.41
1:a:690:GLU:OE2	1:a:692:SER:HB3	2.21	0.41
1:b:299:ARG:NH2	1:c:690:GLU:OE2	2.54	0.41
1:b:559:MET:SD	1:b:725:ARG:HA	2.61	0.41
1:c:536:PRO:HG3	1:c:573:ALA:HB3	2.02	0.41
1:e:536:PRO:HG3	1:e:573:ALA:HB3	2.02	0.41
1:f:615:GLN:HE22	1:f:726:PRO:CA	2.30	0.41
1:f:690:GLU:OE2	1:f:692:SER:HB3	2.21	0.41
1:g:386:GLN:HB3	1:k:708:SER:O	2.21	0.41
1:j:273:TYR:HA	1:j:382:ASN:ND2	2.35	0.41
1:j:528:LYS:NZ	1:j:575:GLU:OE2	2.38	0.41
1:k:488:ARG:HB2	1:k:574:THR:HB	2.02	0.41
1:l:488:ARG:HB2	1:l:574:THR:HB	2.02	0.41
1:m:397:GLU:OE1	1:m:397:GLU:N	2.51	0.41
1:n:690:GLU:OE2	1:n:692:SER:HB3	2.21	0.41
1:o:559:MET:SD	1:o:725:ARG:HA	2.61	0.41
1:p:488:ARG:HB2	1:p:574:THR:HB	2.02	0.41
1:p:559:MET:SD	1:p:725:ARG:HA	2.61	0.41
1:p:708:SER:O	1:q:386:GLN:HB3	2.21	0.41
1:r:536:PRO:HG3	1:r:573:ALA:HB3	2.02	0.41
1:s:698:GLU:HB2	1:s:700:GLN:NE2	2.33	0.41
1:t:708:SER:O	1:6:386:GLN:HB3	2.21	0.41
1:w:488:ARG:HB2	1:w:574:THR:HB	2.02	0.41
1:w:559:MET:SD	1:w:725:ARG:HA	2.61	0.41
1:z:488:ARG:HB2	1:z:574:THR:HB	2.02	0.41
1:z:536:PRO:HG3	1:z:573:ALA:HB3	2.02	0.41
1:2:615:GLN:HE22	1:2:726:PRO:CA	2.30	0.41
1:3:575:GLU:HG2	1:4:584:PHE:CZ	2.51	0.41
1:5:536:PRO:HG3	1:5:573:ALA:HB3	2.02	0.41
1:6:433:ARG:HD3	1:6:433:ARG:HA	1.81	0.41
1:7:273:TYR:HA	1:7:382:ASN:ND2	2.35	0.41
1:8:536:PRO:HG3	1:8:573:ALA:HB3	2.02	0.41
1:8:559:MET:SD	1:8:725:ARG:HA	2.61	0.41
1:B:485:ARG:HD3	1:L:581:ALA:O	2.20	0.41
1:C:386:GLN:HB3	1:D:708:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:485:ARG:HD3	1:P:581:ALA:O	2.20	0.41
1:F:694:ARG:NE	1:F:696:ASN:OD1	2.54	0.41
1:G:694:ARG:NE	1:G:696:ASN:OD1	2.54	0.41
1:H:488:ARG:HB2	1:H:574:THR:HB	2.02	0.41
1:H:536:PRO:HG3	1:H:573:ALA:HB3	2.02	0.41
1:H:708:SER:O	1:I:386:GLN:HB3	2.21	0.41
1:J:312:LEU:HB3	1:J:414:TYR:HB3	2.01	0.41
1:K:708:SER:O	1:L:386:GLN:HB3	2.21	0.41
1:L:302:ASN:ND2	1:L:701:TYR:H	2.05	0.41
1:N:584:PHE:CZ	1:P:575:GLU:HG2	2.51	0.41
1:P:528:LYS:NZ	1:P:575:GLU:OE2	2.38	0.41
1:Q:299:ARG:NH2	1:R:690:GLU:OE2	2.54	0.41
1:Q:559:MET:SD	1:Q:725:ARG:HA	2.61	0.41
1:R:273:TYR:HA	1:R:382:ASN:ND2	2.35	0.41
1:W:559:MET:SD	1:W:725:ARG:HA	2.61	0.41
1:Z:694:ARG:NE	1:Z:696:ASN:OD1	2.54	0.41
1:a:559:MET:SD	1:a:725:ARG:HA	2.61	0.41
1:b:536:PRO:HG3	1:b:573:ALA:HB3	2.02	0.41
1:e:460:ASP:OD1	1:e:461:LEU:N	2.54	0.41
1:f:536:PRO:HG3	1:f:573:ALA:HB3	2.02	0.41
1:f:559:MET:SD	1:f:725:ARG:HA	2.61	0.41
1:g:559:MET:SD	1:g:725:ARG:HA	2.61	0.41
1:h:299:ARG:NH2	1:k:690:GLU:OE2	2.54	0.41
1:l:559:MET:SD	1:l:725:ARG:HA	2.61	0.41
1:q:690:GLU:OE2	1:x:299:ARG:NH2	2.54	0.41
1:s:488:ARG:HB2	1:s:574:THR:HB	2.02	0.41
1:t:528:LYS:NZ	1:t:575:GLU:OE2	2.38	0.41
1:t:694:ARG:NE	1:t:696:ASN:OD1	2.54	0.41
1:x:559:MET:SD	1:x:725:ARG:HA	2.61	0.41
1:x:615:GLN:HE22	1:x:726:PRO:CA	2.30	0.41
1:y:694:ARG:NE	1:y:696:ASN:OD1	2.54	0.41
1:z:581:ALA:O	1:1:485:ARG:HD3	2.20	0.41
1:2:312:LEU:HB3	1:2:414:TYR:HB3	2.01	0.41
1:3:690:GLU:OE2	1:3:692:SER:HB3	2.21	0.41
1:5:386:GLN:HB3	1:8:708:SER:O	2.21	0.41
1:6:559:MET:SD	1:6:725:ARG:HA	2.61	0.41
1:8:694:ARG:NE	1:8:696:ASN:OD1	2.54	0.41
1:A:386:GLN:HB3	1:B:708:SER:O	2.21	0.41
1:A:536:PRO:HG3	1:A:573:ALA:HB3	2.02	0.41
1:C:497:ASN:HA	1:M:587:SER:HA	2.01	0.41
1:E:694:ARG:NE	1:E:696:ASN:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:528:LYS:NZ	1:G:575:GLU:OE2	2.38	0.41
1:G:690:GLU:OE2	1:H:299:ARG:NH2	2.54	0.41
1:I:313:ASN:HB3	1:I:682:GLU:HB3	2.01	0.41
1:J:559:MET:SD	1:J:725:ARG:HA	2.61	0.41
1:L:690:GLU:OE2	1:L:692:SER:HB3	2.21	0.41
1:O:708:SER:O	1:P:386:GLN:HB3	2.21	0.41
1:R:559:MET:SD	1:R:725:ARG:HA	2.61	0.41
1:S:690:GLU:OE2	1:T:299:ARG:NH2	2.54	0.41
1:U:299:ARG:NH2	1:V:690:GLU:OE2	2.54	0.41
1:V:581:ALA:O	1:e:485:ARG:HD3	2.20	0.41
1:V:694:ARG:NE	1:V:696:ASN:OD1	2.54	0.41
1:W:488:ARG:HB2	1:W:574:THR:HB	2.02	0.41
1:X:708:SER:O	1:Y:386:GLN:HB3	2.21	0.41
1:b:708:SER:O	1:o:386:GLN:HB3	2.21	0.41
1:d:299:ARG:NH2	1:n:690:GLU:OE2	2.54	0.41
1:d:690:GLU:OE2	1:n:299:ARG:NH2	2.54	0.41
1:e:690:GLU:OE2	1:f:299:ARG:NH2	2.54	0.41
1:i:584:PHE:CZ	1:j:575:GLU:HG2	2.51	0.41
1:j:581:ALA:O	1:k:485:ARG:HD3	2.20	0.41
1:k:536:PRO:HG3	1:k:573:ALA:HB3	2.02	0.41
1:m:299:ARG:NH2	1:r:690:GLU:OE2	2.54	0.41
1:o:708:SER:O	1:7:386:GLN:HB3	2.21	0.41
1:p:536:PRO:HG3	1:p:573:ALA:HB3	2.02	0.41
1:p:690:GLU:OE2	1:s:299:ARG:NH2	2.54	0.41
1:p:694:ARG:NE	1:p:696:ASN:OD1	2.54	0.41
1:q:559:MET:SD	1:q:725:ARG:HA	2.61	0.41
1:t:690:GLU:OE2	1:t:692:SER:HB3	2.21	0.41
1:u:313:ASN:HB3	1:u:682:GLU:HB3	2.01	0.41
1:w:694:ARG:NE	1:w:696:ASN:OD1	2.54	0.41
1:y:488:ARG:HB2	1:y:574:THR:HB	2.02	0.41
1:z:386:GLN:HB3	1:4:708:SER:O	2.21	0.41
1:2:559:MET:SD	1:2:725:ARG:HA	2.61	0.41
1:A:488:ARG:HB2	1:A:574:THR:HB	2.02	0.41
1:A:584:PHE:CZ	1:G:575:GLU:HG2	2.51	0.41
1:A:694:ARG:NE	1:A:696:ASN:OD1	2.54	0.41
1:B:299:ARG:NH2	1:I:690:GLU:OE2	2.54	0.41
1:B:433:ARG:HA	1:B:433:ARG:HD3	1.81	0.41
1:B:559:MET:SD	1:B:725:ARG:HA	2.61	0.41
1:C:299:ARG:NH2	1:L:690:GLU:OE2	2.54	0.41
1:C:488:ARG:HB2	1:C:574:THR:HB	2.02	0.41
1:C:690:GLU:OE2	1:C:692:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:536:PRO:HG3	1:D:573:ALA:HB3	2.02	0.41
1:E:536:PRO:HG3	1:E:573:ALA:HB3	2.02	0.41
1:F:273:TYR:HA	1:F:382:ASN:ND2	2.35	0.41
1:F:488:ARG:HB2	1:F:574:THR:HB	2.02	0.41
1:G:690:GLU:OE2	1:G:692:SER:HB3	2.21	0.41
1:H:289:HIS:N	1:H:614:LEU:O	2.54	0.41
1:H:690:GLU:OE2	1:H:692:SER:HB3	2.21	0.41
1:H:694:ARG:NE	1:H:696:ASN:OD1	2.54	0.41
1:I:559:MET:SD	1:I:725:ARG:HA	2.61	0.41
1:J:460:ASP:OD1	1:J:461:LEU:N	2.54	0.41
1:J:528:LYS:NZ	1:J:575:GLU:OE2	2.38	0.41
1:J:690:GLU:OE2	1:K:299:ARG:NH2	2.54	0.41
1:K:559:MET:SD	1:K:725:ARG:HA	2.61	0.41
1:L:559:MET:SD	1:L:725:ARG:HA	2.61	0.41
1:L:694:ARG:NE	1:L:696:ASN:OD1	2.54	0.41
1:M:484:TYR:CZ	1:b:580:VAL:HG22	2.55	0.41
1:N:273:TYR:HA	1:N:382:ASN:ND2	2.35	0.41
1:O:366:PHE:HA	1:O:367:PRO:HD3	1.95	0.41
1:O:559:MET:SD	1:O:725:ARG:HA	2.61	0.41
1:Q:615:GLN:HE22	1:Q:726:PRO:CA	2.30	0.41
1:Q:708:SER:O	1:S:386:GLN:HB3	2.21	0.41
1:R:694:ARG:NE	1:R:696:ASN:OD1	2.54	0.41
1:S:584:PHE:CZ	1:U:575:GLU:HG2	2.51	0.41
1:T:366:PHE:HA	1:T:367:PRO:HD3	1.95	0.41
1:T:488:ARG:HB2	1:T:574:THR:HB	2.02	0.41
1:T:584:PHE:CZ	1:d:575:GLU:HG2	2.51	0.41
1:T:690:GLU:OE2	1:T:692:SER:HB3	2.21	0.41
1:U:690:GLU:OE2	1:V:299:ARG:NH2	2.54	0.41
1:V:386:GLN:HB3	1:W:708:SER:O	2.21	0.41
1:V:536:PRO:HG3	1:V:573:ALA:HB3	2.02	0.41
1:W:690:GLU:OE2	1:X:299:ARG:NH2	2.54	0.41
1:W:694:ARG:NE	1:W:696:ASN:OD1	2.54	0.41
1:X:322:LYS:HZ3	1:X:335:ASN:ND2	2.19	0.41
1:X:386:GLN:HB3	1:f:708:SER:O	2.21	0.41
1:X:694:ARG:NE	1:X:696:ASN:OD1	2.54	0.41
1:Y:559:MET:SD	1:Y:725:ARG:HA	2.61	0.41
1:Y:690:GLU:OE2	1:Z:299:ARG:NH2	2.54	0.41
1:b:460:ASP:OD1	1:b:461:LEU:N	2.54	0.41
1:c:485:ARG:HD3	1:p:581:ALA:O	2.20	0.41
1:d:581:ALA:O	1:l:485:ARG:HD3	2.20	0.41
1:d:694:ARG:NE	1:d:696:ASN:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:299:ARG:NH2	1:f:690:GLU:OE2	2.54	0.41
1:f:460:ASP:OD1	1:f:461:LEU:N	2.54	0.41
1:f:488:ARG:HB2	1:f:574:THR:HB	2.02	0.41
1:g:299:ARG:NH2	1:z:690:GLU:OE2	2.54	0.41
1:g:488:ARG:HB2	1:g:574:THR:HB	2.02	0.41
1:h:433:ARG:HD3	1:h:433:ARG:HA	1.81	0.41
1:i:299:ARG:NH2	1:l:690:GLU:OE2	2.54	0.41
1:j:289:HIS:N	1:j:614:LEU:O	2.54	0.41
1:j:386:GLN:HB3	1:l:708:SER:O	2.21	0.41
1:m:488:ARG:HB2	1:m:574:THR:HB	2.02	0.41
1:m:559:MET:SD	1:m:725:ARG:HA	2.61	0.41
1:m:584:PHE:CZ	1:n:575:GLU:HG2	2.51	0.41
1:m:690:GLU:OE2	1:m:692:SER:HB3	2.21	0.41
1:n:694:ARG:NE	1:n:696:ASN:OD1	2.54	0.41
1:o:299:ARG:NH2	1:6:690:GLU:OE2	2.54	0.41
1:o:694:ARG:NE	1:o:696:ASN:OD1	2.54	0.41
1:p:690:GLU:OE2	1:p:692:SER:HB3	2.21	0.41
1:q:273:TYR:HA	1:q:382:ASN:ND2	2.35	0.41
1:q:299:ARG:NH2	1:x:690:GLU:OE2	2.54	0.41
1:q:694:ARG:NE	1:q:696:ASN:OD1	2.54	0.41
1:r:386:GLN:HB3	1:x:708:SER:O	2.21	0.41
1:t:488:ARG:HB2	1:t:574:THR:HB	2.02	0.41
1:t:581:ALA:O	1:u:485:ARG:HD3	2.20	0.41
1:t:690:GLU:OE2	1:5:299:ARG:NH2	2.54	0.41
1:u:386:GLN:HB3	1:5:708:SER:O	2.21	0.41
1:u:559:MET:SD	1:u:725:ARG:HA	2.61	0.41
1:u:690:GLU:OE2	1:1:299:ARG:NH2	2.54	0.41
1:v:386:GLN:HB3	1:1:708:SER:O	2.21	0.41
1:v:488:ARG:HB2	1:v:574:THR:HB	2.02	0.41
1:v:536:PRO:HG3	1:v:573:ALA:HB3	2.02	0.41
1:v:694:ARG:NE	1:v:696:ASN:OD1	2.54	0.41
1:v:708:SER:O	1:w:386:GLN:HB3	2.21	0.41
1:w:536:PRO:HG3	1:w:573:ALA:HB3	2.02	0.41
1:z:302:ASN:ND2	1:z:701:TYR:H	2.05	0.41
1:z:559:MET:SD	1:z:725:ARG:HA	2.61	0.41
1:z:615:GLN:HE22	1:z:726:PRO:CA	2.30	0.41
1:z:690:GLU:OE2	1:z:692:SER:HB3	2.21	0.41
1:z:694:ARG:NE	1:z:696:ASN:OD1	2.54	0.41
1:1:433:ARG:HA	1:1:433:ARG:HD3	1.81	0.41
1:2:460:ASP:OD1	1:2:461:LEU:N	2.54	0.41
1:2:690:GLU:OE2	1:4:299:ARG:NH2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:690:GLU:OE2	1:2:692:SER:HB3	2.21	0.41
1:3:559:MET:SD	1:3:725:ARG:HA	2.61	0.41
1:5:289:HIS:N	1:5:614:LEU:O	2.54	0.41
1:5:690:GLU:OE2	1:5:692:SER:HB3	2.21	0.41
1:5:694:ARG:NE	1:5:696:ASN:OD1	2.54	0.41
1:6:488:ARG:HB2	1:6:574:THR:HB	2.02	0.41
1:6:694:ARG:NE	1:6:696:ASN:OD1	2.54	0.41
1:8:488:ARG:HB2	1:8:574:THR:HB	2.02	0.41
1:A:559:MET:SD	1:A:725:ARG:HA	2.61	0.41
1:A:708:SER:O	1:E:386:GLN:HB3	2.21	0.41
1:B:289:HIS:N	1:B:614:LEU:O	2.54	0.41
1:C:289:HIS:N	1:C:614:LEU:O	2.54	0.41
1:F:559:MET:SD	1:F:725:ARG:HA	2.61	0.41
1:J:289:HIS:N	1:J:614:LEU:O	2.54	0.41
1:J:690:GLU:OE2	1:J:692:SER:HB3	2.21	0.41
1:J:708:SER:O	1:a:386:GLN:HB3	2.21	0.41
1:L:289:HIS:N	1:L:614:LEU:O	2.54	0.41
1:N:299:ARG:NH2	1:O:690:GLU:OE2	2.54	0.41
1:O:485:ARG:HD3	1:n:581:ALA:O	2.20	0.41
1:O:694:ARG:NE	1:O:696:ASN:OD1	2.54	0.41
1:P:289:HIS:N	1:P:614:LEU:O	2.54	0.41
1:P:488:ARG:HB2	1:P:574:THR:HB	2.02	0.41
1:Q:690:GLU:OE2	1:R:299:ARG:NH2	2.54	0.41
1:T:559:MET:SD	1:T:725:ARG:HA	2.61	0.41
1:U:302:ASN:ND2	1:U:701:TYR:H	2.05	0.41
1:U:694:ARG:NE	1:U:696:ASN:OD1	2.54	0.41
1:V:690:GLU:OE2	1:V:692:SER:HB3	2.21	0.41
1:W:302:ASN:ND2	1:W:701:TYR:H	2.05	0.41
1:Z:488:ARG:HB2	1:Z:574:THR:HB	2.02	0.41
1:a:460:ASP:OD1	1:a:461:LEU:N	2.54	0.41
1:b:289:HIS:N	1:b:614:LEU:O	2.54	0.41
1:b:488:ARG:HB2	1:b:574:THR:HB	2.02	0.41
1:b:690:GLU:OE2	1:c:299:ARG:NH2	2.54	0.41
1:c:273:TYR:HA	1:c:382:ASN:ND2	2.35	0.41
1:c:690:GLU:OE2	1:c:692:SER:HB3	2.21	0.41
1:e:273:TYR:HA	1:e:382:ASN:ND2	2.35	0.41
1:e:690:GLU:OE2	1:e:692:SER:HB3	2.21	0.41
1:e:708:SER:O	1:h:386:GLN:HB3	2.21	0.41
1:g:289:HIS:N	1:g:614:LEU:O	2.54	0.41
1:g:690:GLU:OE2	1:g:692:SER:HB3	2.21	0.41
1:i:273:TYR:HA	1:i:382:ASN:ND2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:299:ARG:NH2	1:s:690:GLU:OE2	2.54	0.41
1:p:386:GLN:HB3	1:6:708:SER:O	2.21	0.41
1:r:584:PHE:CZ	1:s:575:GLU:HG2	2.51	0.41
1:s:694:ARG:NE	1:s:696:ASN:OD1	2.54	0.41
1:v:299:ARG:NH2	1:y:690:GLU:OE2	2.54	0.41
1:v:559:MET:SD	1:v:725:ARG:HA	2.61	0.41
1:y:273:TYR:HA	1:y:382:ASN:ND2	2.35	0.41
1:y:559:MET:SD	1:y:725:ARG:HA	2.61	0.41
1:y:690:GLU:OE2	1:y:692:SER:HB3	2.21	0.41
1:y:698:GLU:HB2	1:y:700:GLN:NE2	2.33	0.41
1:z:289:HIS:N	1:z:614:LEU:O	2.54	0.41
1:1:289:HIS:N	1:1:614:LEU:O	2.54	0.41
1:1:559:MET:SD	1:1:725:ARG:HA	2.61	0.41
1:2:289:HIS:N	1:2:614:LEU:O	2.54	0.41
1:2:628:HIS:HE1	1:2:641:LYS:HZ3	1.69	0.41
1:2:708:SER:O	1:3:386:GLN:HB3	2.21	0.41
1:4:536:PRO:HG3	1:4:573:ALA:HB3	2.02	0.41
1:4:559:MET:SD	1:4:725:ARG:HA	2.61	0.41
1:7:559:MET:SD	1:7:725:ARG:HA	2.61	0.41
1:A:299:ARG:NH2	1:F:690:GLU:OE2	2.54	0.40
1:C:690:GLU:OE2	1:L:299:ARG:NH2	2.54	0.40
1:D:694:ARG:NE	1:D:696:ASN:OD1	2.54	0.40
1:F:460:ASP:OD1	1:F:461:LEU:N	2.54	0.40
1:F:690:GLU:OE2	1:F:692:SER:HB3	2.21	0.40
1:G:289:HIS:N	1:G:614:LEU:O	2.54	0.40
1:G:488:ARG:HB2	1:G:574:THR:HB	2.02	0.40
1:G:559:MET:SD	1:G:725:ARG:HA	2.61	0.40
1:I:694:ARG:NE	1:I:696:ASN:OD1	2.54	0.40
1:K:386:GLN:HB3	1:7:708:SER:O	2.21	0.40
1:K:536:PRO:HG3	1:K:573:ALA:HB3	2.02	0.40
1:N:690:GLU:OE2	1:N:692:SER:HB3	2.21	0.40
1:N:694:ARG:NE	1:N:696:ASN:OD1	2.54	0.40
1:N:708:SER:O	1:m:386:GLN:HB3	2.21	0.40
1:Q:690:GLU:OE2	1:Q:692:SER:HB3	2.21	0.40
1:S:694:ARG:NE	1:S:696:ASN:OD1	2.54	0.40
1:T:708:SER:O	1:U:386:GLN:HB3	2.21	0.40
1:Y:289:HIS:N	1:Y:614:LEU:O	2.54	0.40
1:Z:460:ASP:OD1	1:Z:461:LEU:N	2.54	0.40
1:f:289:HIS:N	1:f:614:LEU:O	2.55	0.40
1:g:708:SER:O	1:1:386:GLN:HB3	2.21	0.40
1:h:708:SER:O	1:i:386:GLN:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:694:ARG:NE	1:i:696:ASN:OD1	2.54	0.40
1:j:690:GLU:OE2	1:j:692:SER:HB3	2.21	0.40
1:k:694:ARG:NE	1:k:696:ASN:OD1	2.54	0.40
1:l:694:ARG:NE	1:l:696:ASN:OD1	2.54	0.40
1:r:694:ARG:NE	1:r:696:ASN:OD1	2.54	0.40
1:s:302:ASN:ND2	1:s:701:TYR:H	2.05	0.40
1:s:559:MET:SD	1:s:725:ARG:HA	2.61	0.40
1:t:289:HIS:N	1:t:614:LEU:O	2.54	0.40
1:y:460:ASP:OD1	1:y:461:LEU:N	2.54	0.40
1:2:694:ARG:NE	1:2:696:ASN:OD1	2.54	0.40
1:7:289:HIS:N	1:7:614:LEU:O	2.54	0.40
1:7:690:GLU:OE2	1:8:299:ARG:NH2	2.54	0.40
1:7:690:GLU:OE2	1:7:692:SER:HB3	2.21	0.40
1:8:460:ASP:OD1	1:8:461:LEU:N	2.54	0.40
1:B:386:GLN:HB3	1:C:708:SER:O	2.21	0.40
1:D:289:HIS:N	1:D:614:LEU:O	2.54	0.40
1:E:289:HIS:N	1:E:614:LEU:O	2.54	0.40
1:F:698:GLU:HB2	1:F:700:GLN:NE2	2.33	0.40
1:J:302:ASN:ND2	1:J:701:TYR:H	2.05	0.40
1:J:694:ARG:NE	1:J:696:ASN:OD1	2.54	0.40
1:L:397:GLU:OE1	1:L:397:GLU:N	2.51	0.40
1:M:559:MET:SD	1:M:725:ARG:HA	2.61	0.40
1:M:575:GLU:HG2	1:b:584:PHE:CZ	2.52	0.40
1:P:690:GLU:OE2	1:P:692:SER:HB3	2.21	0.40
1:S:708:SER:O	1:d:386:GLN:HB3	2.21	0.40
1:T:386:GLN:HB3	1:i:708:SER:O	2.21	0.40
1:T:694:ARG:NE	1:T:696:ASN:OD1	2.54	0.40
1:Y:690:GLU:OE2	1:Y:692:SER:HB3	2.21	0.40
1:Y:708:SER:O	1:4:386:GLN:HB3	2.21	0.40
1:a:289:HIS:N	1:a:614:LEU:O	2.54	0.40
1:a:698:GLU:HB2	1:a:700:GLN:NE2	2.33	0.40
1:d:559:MET:SD	1:d:725:ARG:HA	2.61	0.40
1:i:690:GLU:OE2	1:i:692:SER:HB3	2.21	0.40
1:i:690:GLU:OE2	1:l:299:ARG:NH2	2.54	0.40
1:j:488:ARG:HB2	1:j:574:THR:HB	2.02	0.40
1:k:289:HIS:N	1:k:614:LEU:O	2.54	0.40
1:m:366:PHE:HA	1:m:367:PRO:HD3	1.95	0.40
1:m:694:ARG:NE	1:m:696:ASN:OD1	2.54	0.40
1:n:386:GLN:HB3	1:r:708:SER:O	2.21	0.40
1:n:397:GLU:OE1	1:n:397:GLU:N	2.51	0.40
1:n:559:MET:SD	1:n:725:ARG:HA	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:628:HIS:HE1	1:o:641:LYS:HZ3	1.68	0.40
1:q:289:HIS:N	1:q:614:LEU:O	2.54	0.40
1:q:708:SER:O	1:y:386:GLN:HB3	2.21	0.40
1:t:559:MET:SD	1:t:725:ARG:HA	2.61	0.40
1:u:694:ARG:NE	1:u:696:ASN:OD1	2.54	0.40
1:x:690:GLU:OE2	1:x:692:SER:HB3	2.21	0.40
1:3:289:HIS:N	1:3:614:LEU:O	2.54	0.40
1:3:460:ASP:OD1	1:3:461:LEU:N	2.54	0.40
1:A:690:GLU:OE2	1:A:692:SER:HB3	2.21	0.40
1:B:694:ARG:NE	1:B:696:ASN:OD1	2.54	0.40
1:D:698:GLU:HB2	1:D:700:GLN:NE2	2.33	0.40
1:H:480:PRO:O	1:H:605:MET:HG2	2.22	0.40
1:J:245:ARG:CZ	1:J:367:PRO:HA	2.52	0.40
1:L:708:SER:O	1:b:386:GLN:HB3	2.21	0.40
1:N:289:HIS:N	1:N:614:LEU:O	2.54	0.40
1:R:289:HIS:N	1:R:614:LEU:O	2.54	0.40
1:U:559:MET:SD	1:U:725:ARG:HA	2.61	0.40
1:U:690:GLU:OE2	1:U:692:SER:HB3	2.21	0.40
1:W:245:ARG:CZ	1:W:367:PRO:HA	2.52	0.40
1:X:289:HIS:N	1:X:614:LEU:O	2.54	0.40
1:X:628:HIS:HE1	1:X:641:LYS:HZ3	1.68	0.40
1:Z:386:GLN:HB3	1:a:708:SER:O	2.21	0.40
1:c:289:HIS:N	1:c:614:LEU:O	2.54	0.40
1:d:397:GLU:OE1	1:d:397:GLU:N	2.51	0.40
1:e:289:HIS:N	1:e:614:LEU:O	2.55	0.40
1:e:559:MET:SD	1:e:725:ARG:HA	2.61	0.40
1:f:386:GLN:HB3	1:z:708:SER:O	2.21	0.40
1:g:690:GLU:OE2	1:z:299:ARG:NH2	2.54	0.40
1:h:559:MET:SD	1:h:725:ARG:HA	2.61	0.40
1:i:289:HIS:N	1:i:614:LEU:O	2.54	0.40
1:l:366:PHE:HA	1:l:367:PRO:HD3	1.95	0.40
1:m:708:SER:O	1:s:386:GLN:HB3	2.21	0.40
1:n:289:HIS:N	1:n:614:LEU:O	2.54	0.40
1:n:460:ASP:OD1	1:n:461:LEU:N	2.54	0.40
1:o:289:HIS:N	1:o:614:LEU:O	2.54	0.40
1:s:690:GLU:OE2	1:s:692:SER:HB3	2.21	0.40
1:t:386:GLN:HB3	1:y:708:SER:O	2.21	0.40
1:u:245:ARG:CZ	1:u:367:PRO:HA	2.52	0.40
1:v:433:ARG:HA	1:v:433:ARG:HD3	1.81	0.40
1:w:289:HIS:N	1:w:614:LEU:O	2.54	0.40
1:w:690:GLU:OE2	1:w:692:SER:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:245:ARG:CZ	1:2:367:PRO:HA	2.52	0.40
1:2:528:LYS:NZ	1:2:575:GLU:OE2	2.38	0.40
1:6:245:ARG:CZ	1:6:367:PRO:HA	2.52	0.40
1:6:690:GLU:OE2	1:6:692:SER:HB3	2.21	0.40
1:C:460:ASP:OD1	1:C:461:LEU:N	2.54	0.40
1:C:480:PRO:O	1:C:605:MET:HG2	2.22	0.40
1:E:690:GLU:OE2	1:E:692:SER:HB3	2.21	0.40
1:F:386:GLN:HB3	1:R:708:SER:O	2.21	0.40
1:F:708:SER:O	1:G:386:GLN:HB3	2.21	0.40
1:I:245:ARG:CZ	1:I:367:PRO:HA	2.52	0.40
1:M:250:PRO:HB3	1:N:658:PRO:HG2	2.02	0.40
1:M:694:ARG:NE	1:M:696:ASN:OD1	2.54	0.40
1:N:245:ARG:CZ	1:N:367:PRO:HA	2.52	0.40
1:N:559:MET:SD	1:N:725:ARG:HA	2.61	0.40
1:N:690:GLU:OE2	1:O:299:ARG:NH2	2.54	0.40
1:O:690:GLU:OE2	1:O:692:SER:HB3	2.21	0.40
1:V:245:ARG:CZ	1:V:367:PRO:HA	2.52	0.40
1:W:480:PRO:O	1:W:605:MET:HG2	2.22	0.40
1:W:690:GLU:OE2	1:W:692:SER:HB3	2.21	0.40
1:X:480:PRO:O	1:X:605:MET:HG2	2.22	0.40
1:X:690:GLU:OE2	1:X:692:SER:HB3	2.21	0.40
1:a:322:LYS:HZ1	1:a:335:ASN:HD21	1.69	0.40
1:b:694:ARG:NE	1:b:696:ASN:OD1	2.54	0.40
1:d:289:HIS:N	1:d:614:LEU:O	2.54	0.40
1:d:460:ASP:OD1	1:d:461:LEU:N	2.54	0.40
1:g:480:PRO:O	1:g:605:MET:HG2	2.22	0.40
1:i:245:ARG:CZ	1:i:367:PRO:HA	2.52	0.40
1:i:559:MET:SD	1:i:725:ARG:HA	2.61	0.40
1:j:299:ARG:NH2	1:w:690:GLU:OE2	2.54	0.40
1:j:615:GLN:HE22	1:j:726:PRO:CA	2.30	0.40
1:l:690:GLU:OE2	1:l:692:SER:HB3	2.21	0.40
1:p:245:ARG:CZ	1:p:367:PRO:HA	2.52	0.40
1:r:559:MET:SD	1:r:725:ARG:HA	2.61	0.40
1:r:690:GLU:OE2	1:r:692:SER:HB3	2.21	0.40
1:s:480:PRO:O	1:s:605:MET:HG2	2.22	0.40
1:t:299:ARG:NH2	1:5:690:GLU:OE2	2.54	0.40
1:v:690:GLU:OE2	1:v:692:SER:HB3	2.21	0.40
1:1:690:GLU:OE2	1:1:692:SER:HB3	2.21	0.40
1:1:694:ARG:NE	1:1:696:ASN:OD1	2.54	0.40
1:5:460:ASP:OD1	1:5:461:LEU:N	2.54	0.40
1:6:302:ASN:ND2	1:6:701:TYR:H	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:480:PRO:O	1:6:605:MET:HG2	2.22	0.40
1:6:615:GLN:HE22	1:6:726:PRO:CA	2.30	0.40
1:7:299:ARG:NH2	1:8:690:GLU:OE2	2.54	0.40
1:7:694:ARG:NE	1:7:696:ASN:OD1	2.54	0.40
1:A:433:ARG:HA	1:A:433:ARG:HD3	1.81	0.40
1:A:480:PRO:O	1:A:605:MET:HG2	2.22	0.40
1:B:690:GLU:OE2	1:B:692:SER:HB3	2.21	0.40
1:E:690:GLU:OE2	1:P:299:ARG:NH2	2.54	0.40
1:G:299:ARG:NH2	1:H:690:GLU:OE2	2.54	0.40
1:G:480:PRO:O	1:G:605:MET:HG2	2.22	0.40
1:H:460:ASP:OD1	1:H:461:LEU:N	2.54	0.40
1:J:299:ARG:NH2	1:K:690:GLU:OE2	2.54	0.40
1:J:480:PRO:O	1:J:605:MET:HG2	2.22	0.40
1:M:433:ARG:HD3	1:M:433:ARG:HA	1.81	0.40
1:N:698:GLU:HB2	1:N:700:GLN:NE2	2.33	0.40
1:P:245:ARG:CZ	1:P:367:PRO:HA	2.52	0.40
1:S:245:ARG:CZ	1:S:367:PRO:HA	2.52	0.40
1:S:480:PRO:O	1:S:605:MET:HG2	2.22	0.40
1:S:690:GLU:OE2	1:S:692:SER:HB3	2.21	0.40
1:U:480:PRO:O	1:U:605:MET:HG2	2.22	0.40
1:W:299:ARG:NH2	1:X:690:GLU:OE2	2.54	0.40
1:X:245:ARG:CZ	1:X:367:PRO:HA	2.52	0.40
1:Y:299:ARG:NH2	1:Z:690:GLU:OE2	2.54	0.40
1:Y:694:ARG:NE	1:Y:696:ASN:OD1	2.54	0.40
1:c:559:MET:SD	1:c:725:ARG:HA	2.61	0.40
1:d:322:LYS:HZ3	1:d:335:ASN:ND2	2.19	0.40
1:d:480:PRO:O	1:d:605:MET:HG2	2.22	0.40
1:e:694:ARG:NE	1:e:696:ASN:OD1	2.54	0.40
1:f:238:ARG:NH2	1:f:684:GLU:OE2	2.50	0.40
1:f:694:ARG:NE	1:f:696:ASN:OD1	2.54	0.40
1:g:245:ARG:CZ	1:g:367:PRO:HA	2.52	0.40
1:h:273:TYR:HA	1:h:382:ASN:ND2	2.35	0.40
1:h:289:HIS:N	1:h:614:LEU:O	2.54	0.40
1:j:245:ARG:CZ	1:j:367:PRO:HA	2.52	0.40
1:k:245:ARG:CZ	1:k:367:PRO:HA	2.52	0.40
1:l:245:ARG:CZ	1:l:367:PRO:HA	2.52	0.40
1:l:536:PRO:HG3	1:l:573:ALA:HB3	2.02	0.40
1:n:480:PRO:O	1:n:605:MET:HG2	2.22	0.40
1:o:480:PRO:O	1:o:605:MET:HG2	2.22	0.40
1:o:690:GLU:OE2	1:o:692:SER:HB3	2.21	0.40
1:r:480:PRO:O	1:r:605:MET:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:366:PHE:HA	1:s:367:PRO:HD3	1.95	0.40
1:t:245:ARG:CZ	1:t:367:PRO:HA	2.52	0.40
1:2:480:PRO:O	1:2:605:MET:HG2	2.22	0.40
1:3:708:SER:O	1:8:386:GLN:HB3	2.21	0.40
1:5:480:PRO:O	1:5:605:MET:HG2	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

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

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 ⓘ

There are no chain breaks in this entry.

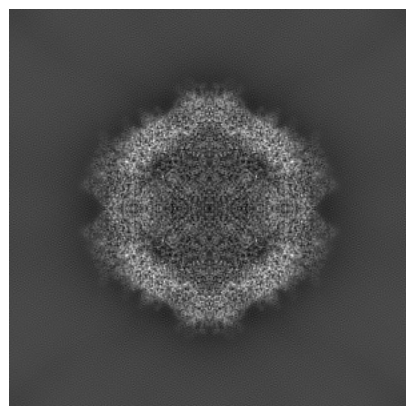
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-29377. These allow visual inspection of the internal detail of the map and identification of artifacts.

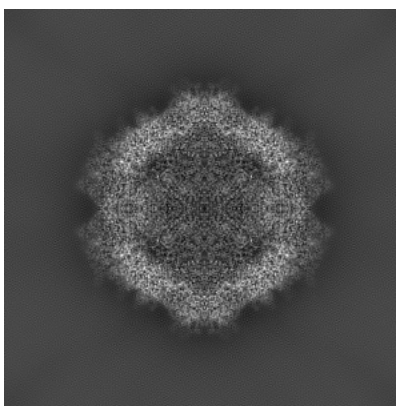
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

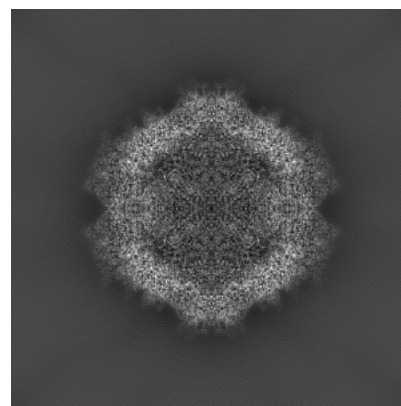
6.1.1 Primary map



X

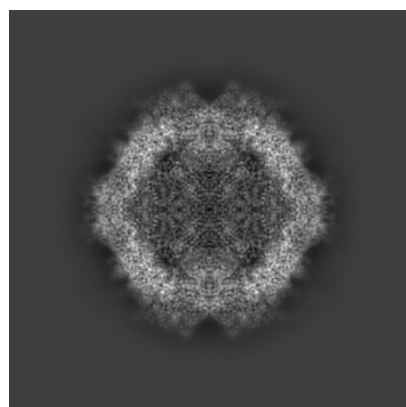


Y

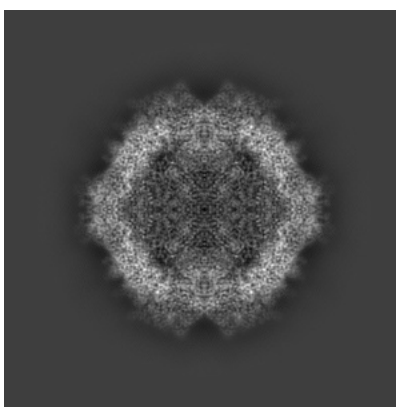


Z

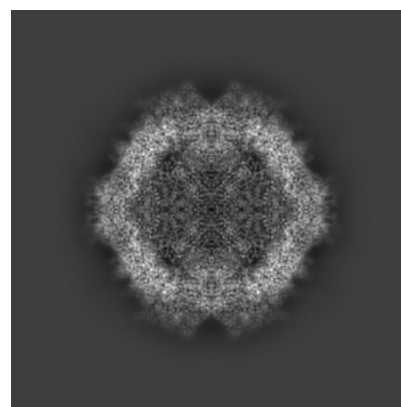
6.1.2 Raw map



X



Y

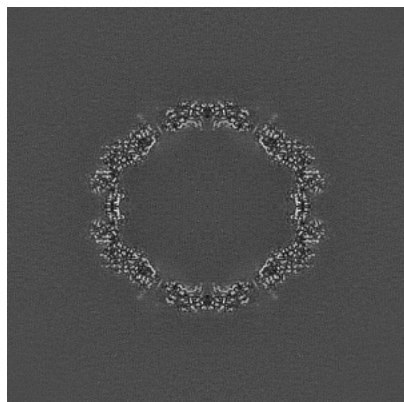


Z

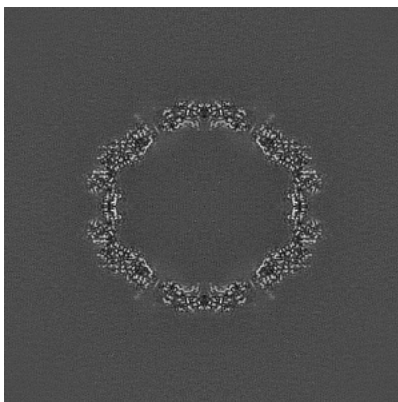
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

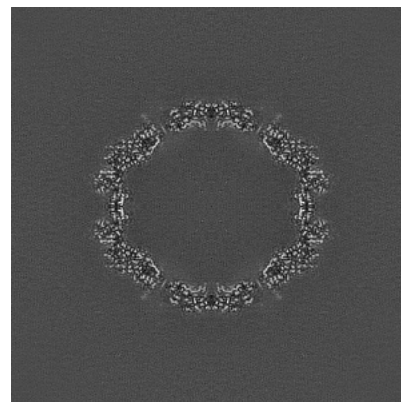
6.2.1 Primary map



X Index: 230

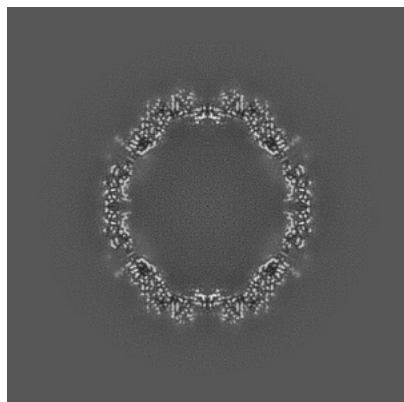


Y Index: 230

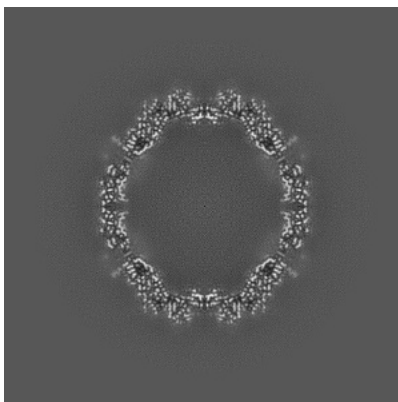


Z Index: 230

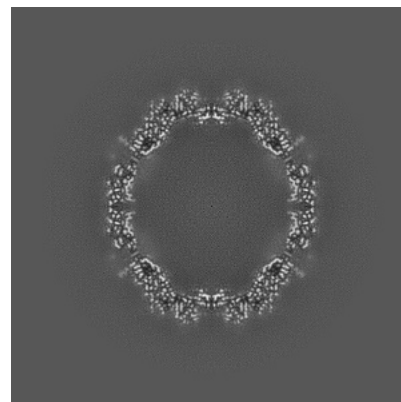
6.2.2 Raw map



X Index: 230



Y Index: 230

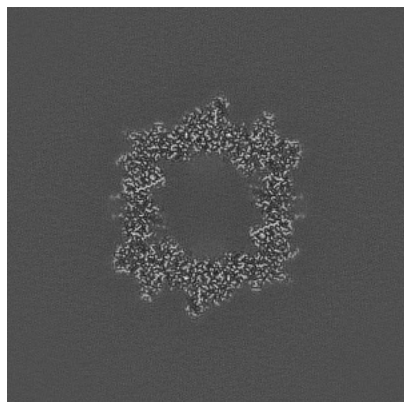


Z Index: 230

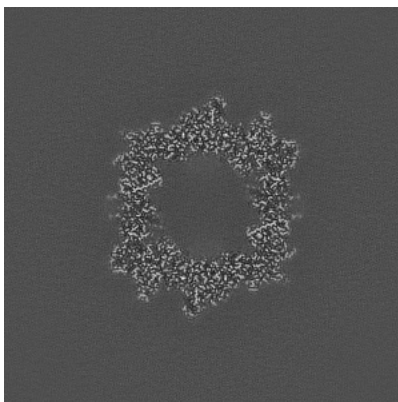
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

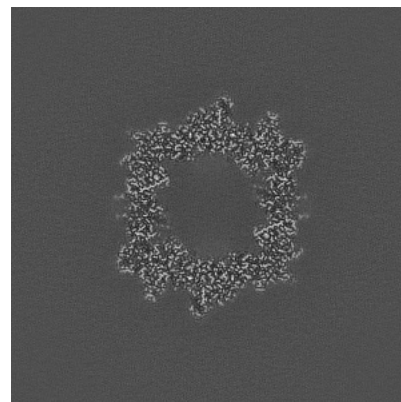
6.3.1 Primary map



X Index: 300

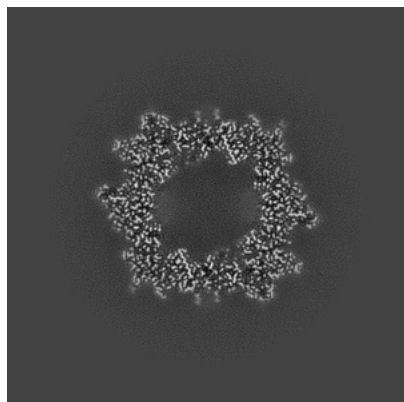


Y Index: 300

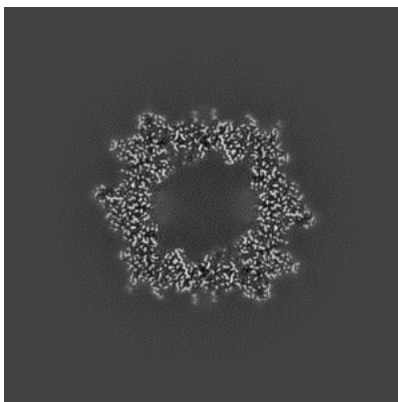


Z Index: 300

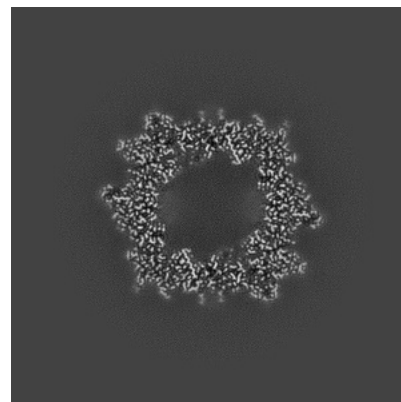
6.3.2 Raw map



X Index: 160



Y Index: 160

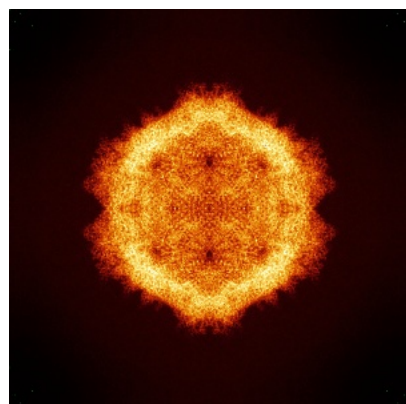


Z Index: 160

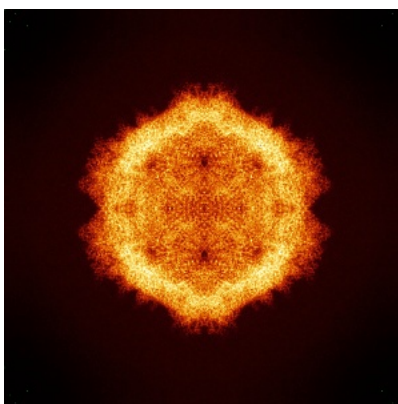
The images above show the largest variance slices of the map in three orthogonal directions.

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

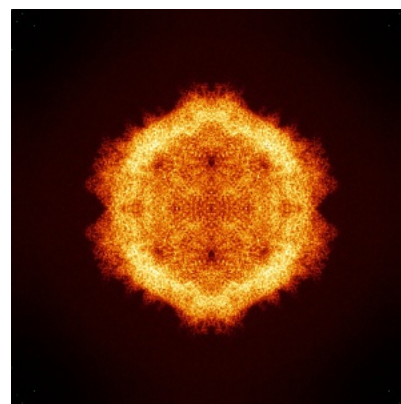
6.4.1 Primary map



X

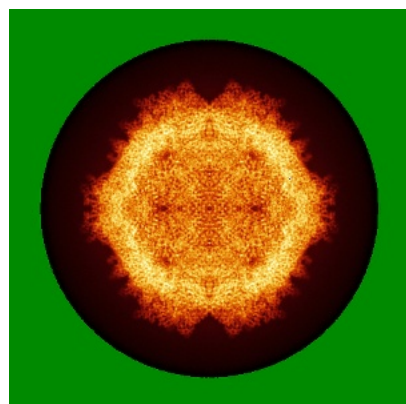


Y

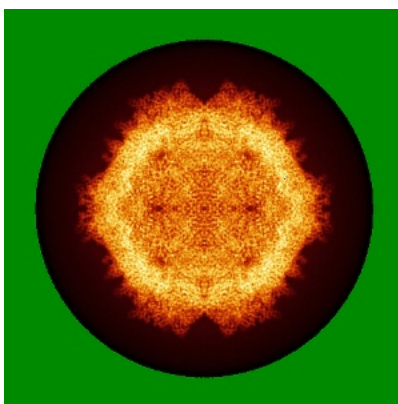


Z

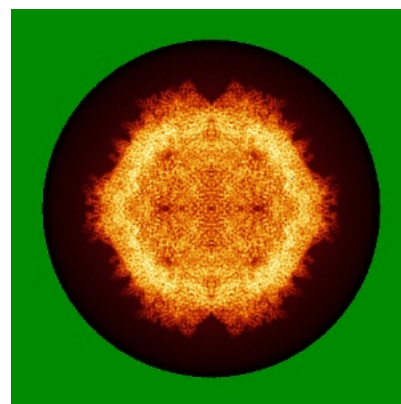
6.4.2 Raw map



X



Y

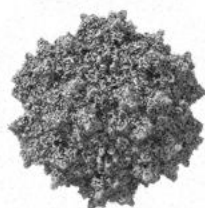


Z

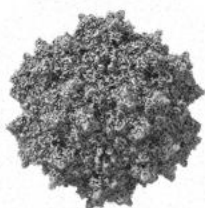
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

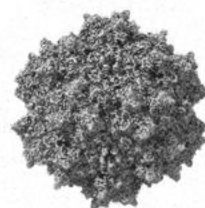
6.5.1 Primary map



X



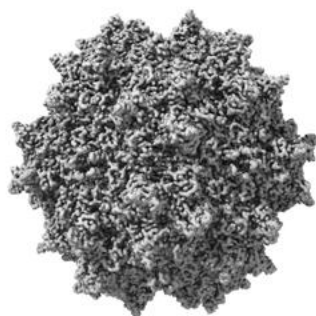
Y



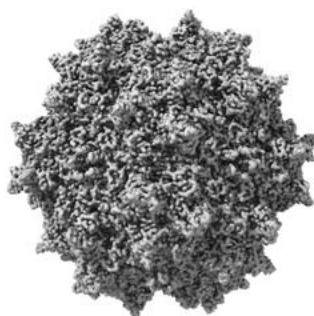
Z

The images above show the 3D surface view of the map at the recommended contour level 1.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

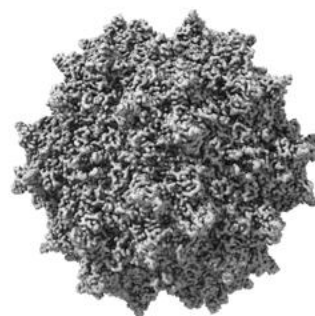
6.5.2 Raw map



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.

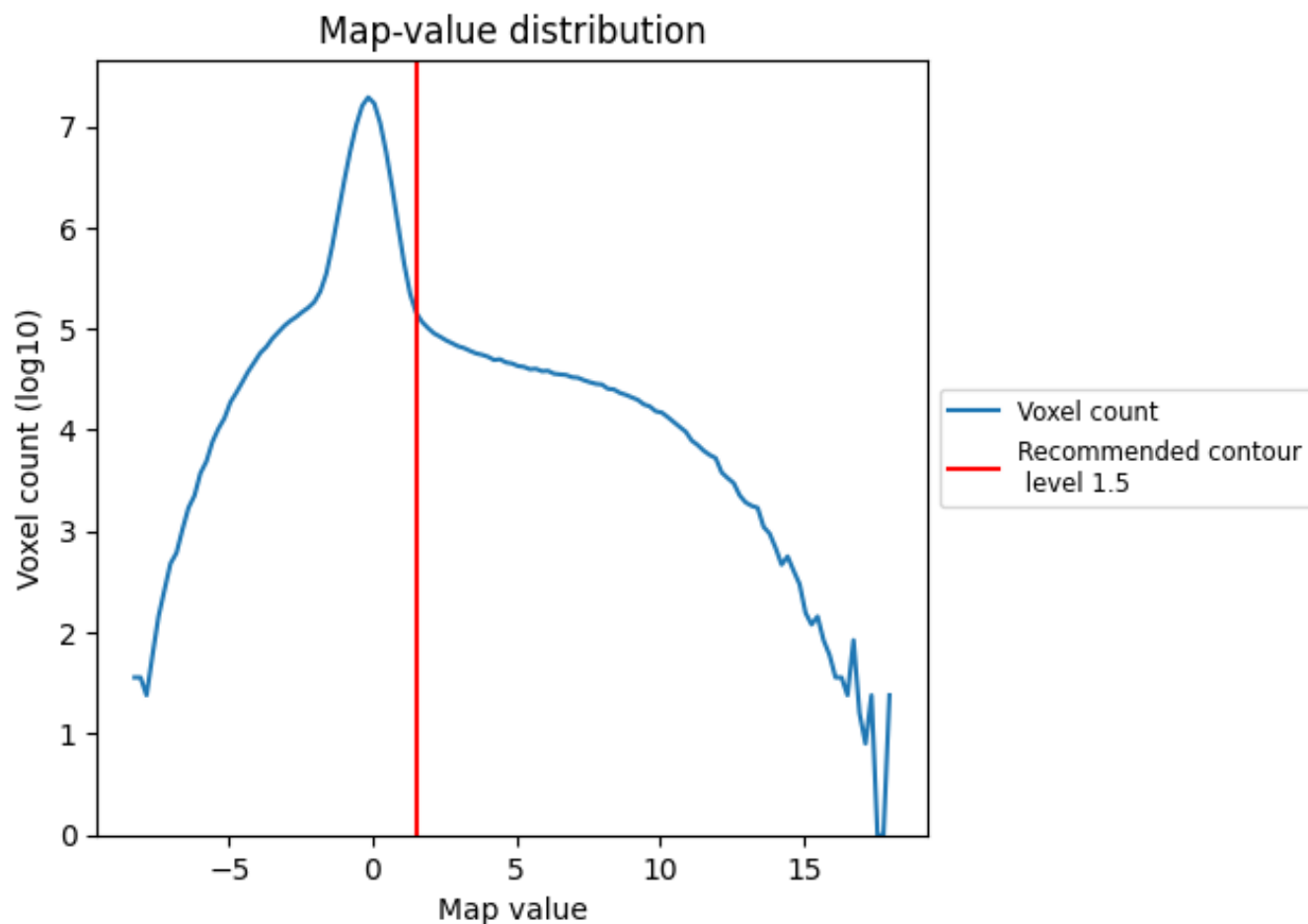
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

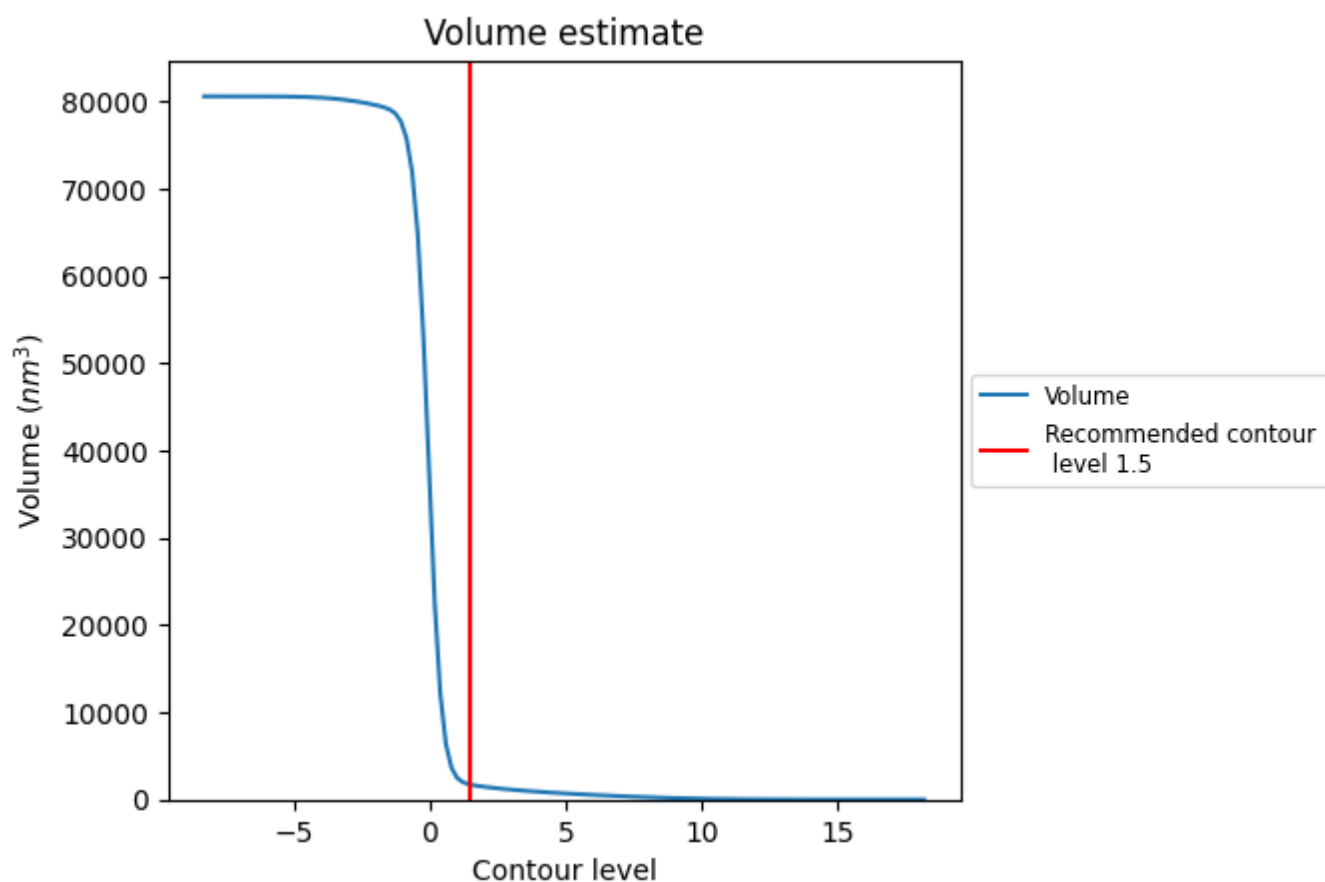
This section contains the results of statistical analysis of the map.

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.

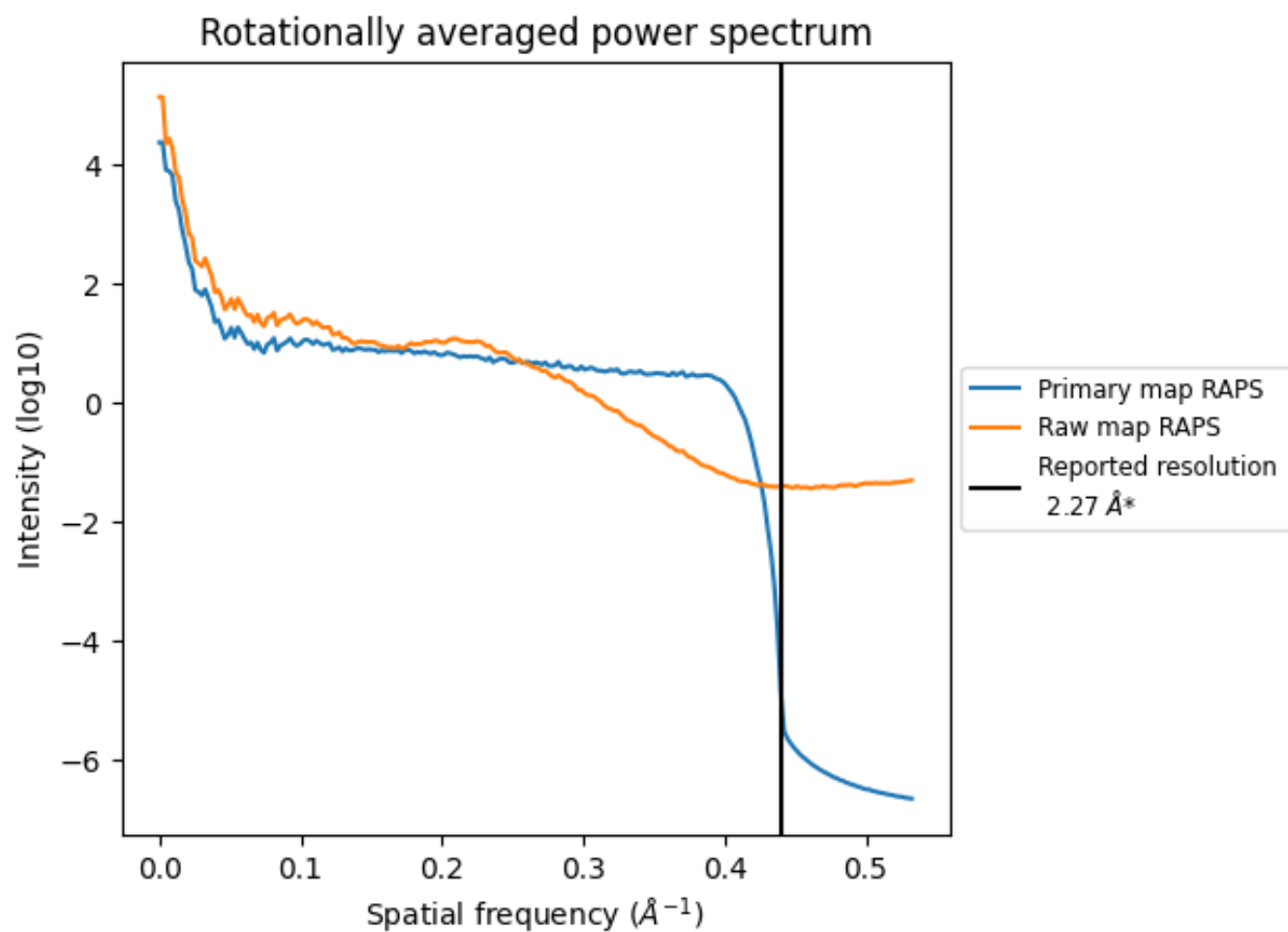
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1724 nm³; this corresponds to an approximate mass of 1557 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 ⓘ

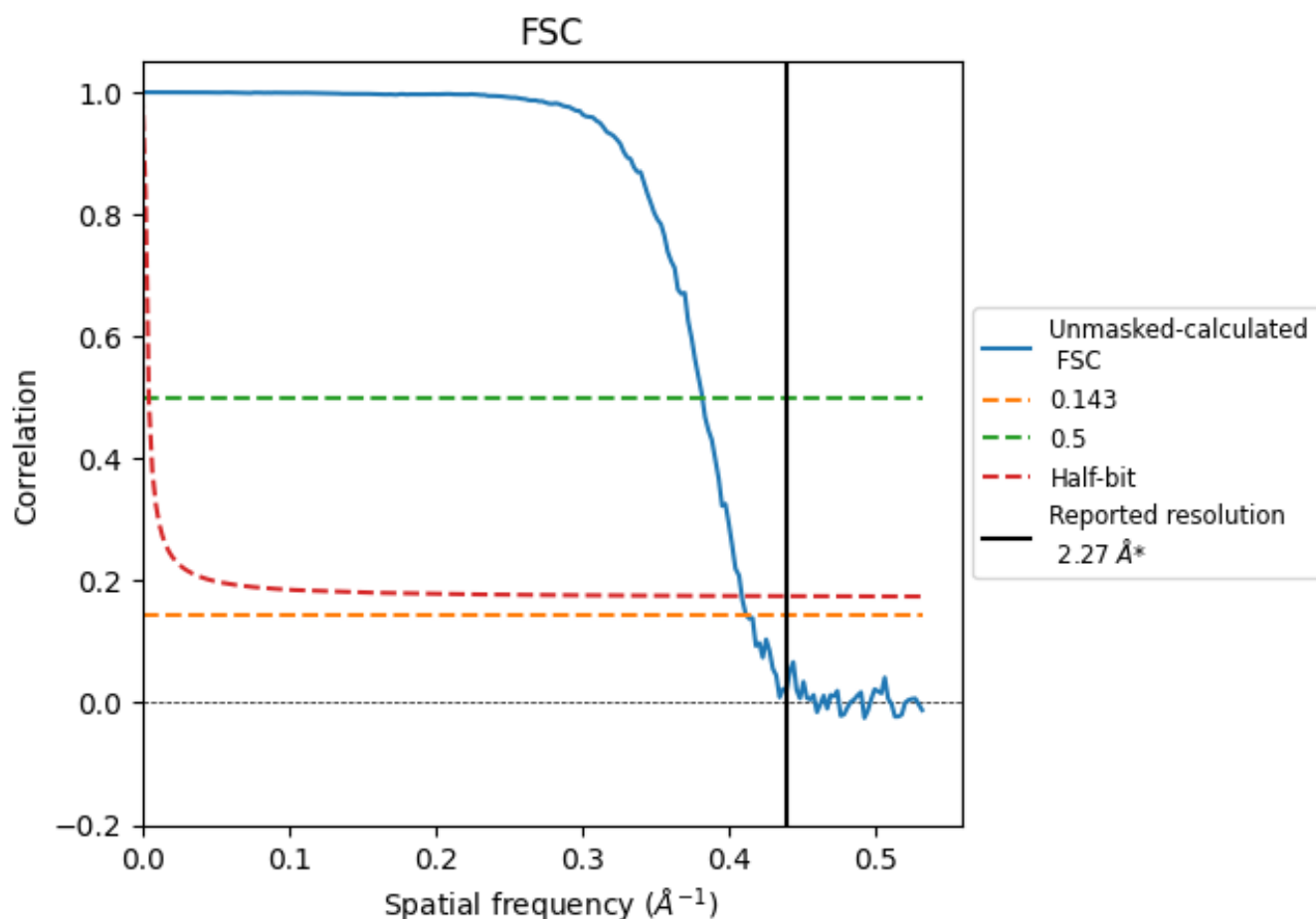


*Reported resolution corresponds to spatial frequency of 0.441 Å⁻¹

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 0.441 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.27	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.42	2.62	2.44

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

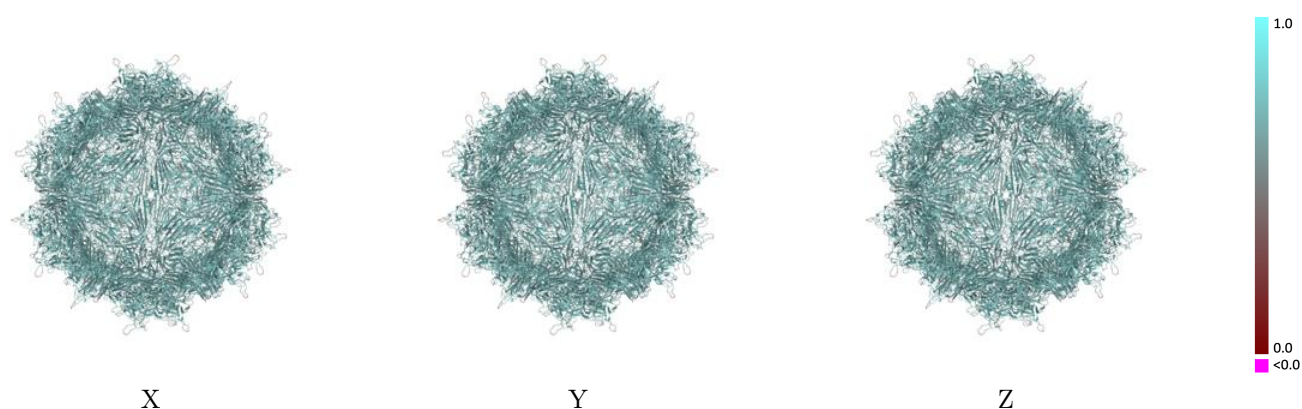
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-29377 and PDB model 8FQ4. Per-residue inclusion information can be found in section 3 on page 10.

9.1 Map-model overlay [i](#)

This section was not generated.

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

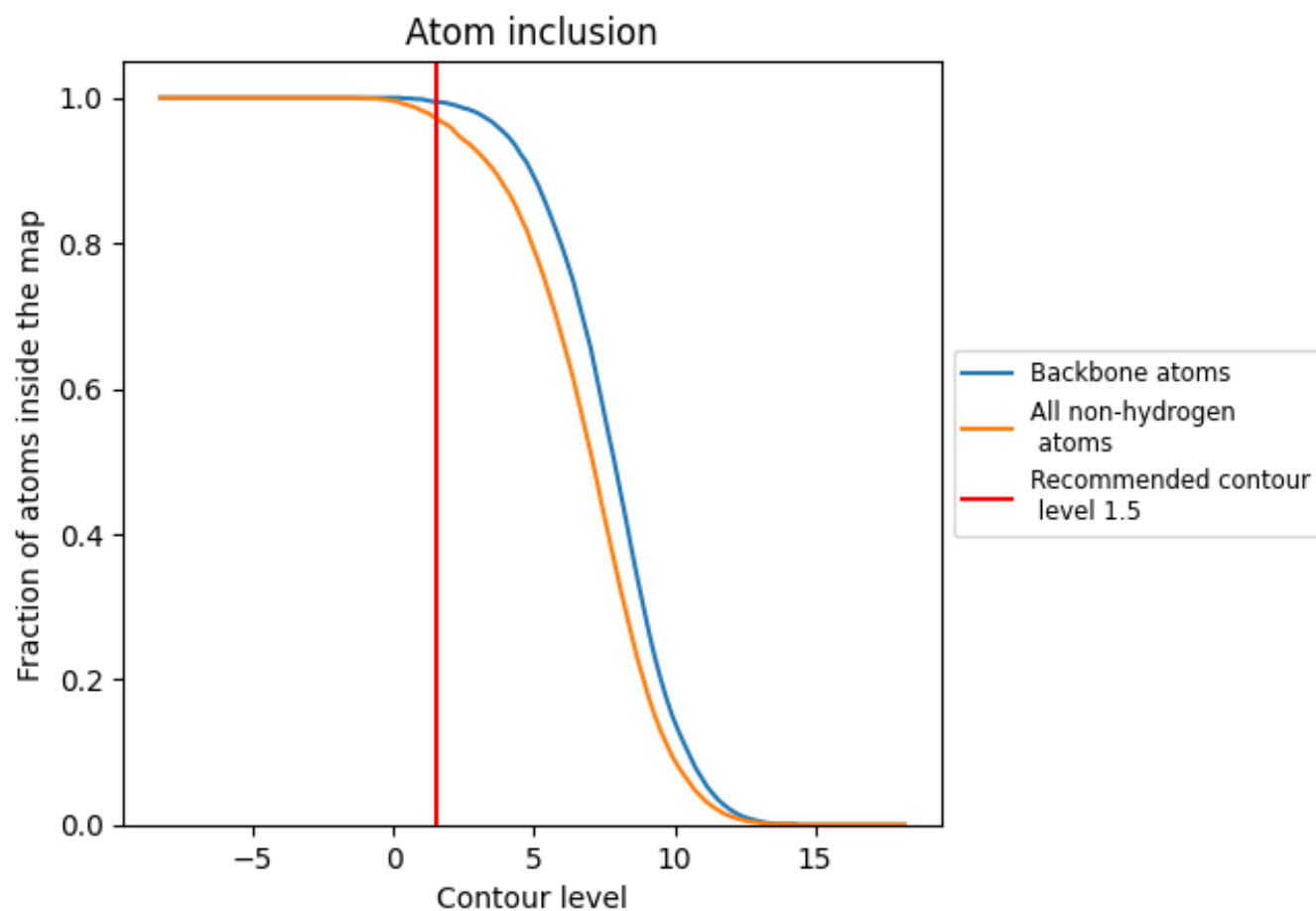


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 97% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9720	 0.6930
1	 0.9720	 0.6940
2	 0.9720	 0.6940
3	 0.9720	 0.6930
4	 0.9720	 0.6930
5	 0.9730	 0.6930
6	 0.9730	 0.6930
7	 0.9730	 0.6930
8	 0.9720	 0.6930
A	 0.9720	 0.6930
B	 0.9720	 0.6940
C	 0.9720	 0.6930
D	 0.9730	 0.6920
E	 0.9720	 0.6930
F	 0.9720	 0.6940
G	 0.9720	 0.6920
H	 0.9730	 0.6930
I	 0.9720	 0.6930
J	 0.9720	 0.6940
K	 0.9720	 0.6920
L	 0.9720	 0.6940
M	 0.9720	 0.6920
N	 0.9730	 0.6930
O	 0.9720	 0.6930
P	 0.9730	 0.6930
Q	 0.9720	 0.6930
R	 0.9720	 0.6930
S	 0.9720	 0.6940
T	 0.9720	 0.6940
U	 0.9720	 0.6930
V	 0.9720	 0.6930
W	 0.9730	 0.6930
X	 0.9720	 0.6920
Y	 0.9730	 0.6930
Z	 0.9720	 0.6920



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Chain	Atom inclusion	Q-score
a	 0.9720	 0.6930
b	 0.9720	 0.6940
c	 0.9720	 0.6940
d	 0.9720	 0.6940
e	 0.9720	 0.6930
f	 0.9720	 0.6940
g	 0.9720	 0.6930
h	 0.9720	 0.6920
i	 0.9730	 0.6930
j	 0.9730	 0.6940
k	 0.9730	 0.6930
l	 0.9720	 0.6930
m	 0.9720	 0.6940
n	 0.9720	 0.6940
o	 0.9720	 0.6920
p	 0.9720	 0.6940
q	 0.9720	 0.6930
r	 0.9720	 0.6930
s	 0.9720	 0.6940
t	 0.9720	 0.6920
u	 0.9720	 0.6930
v	 0.9720	 0.6930
w	 0.9720	 0.6920
x	 0.9720	 0.6930
y	 0.9720	 0.6930
z	 0.9720	 0.6930