



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 11:46 AM UTC

PDB ID : 9J7K / pdb_00009j7k
EMDB ID : EMD-61205
Title : Structure of AAV8 in the complex of AAV8 with its receptor
Authors : Xu, H.; Wang, G.P.; Su, X.D.
Deposited on : 2024-08-19
Resolution : 2.32 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

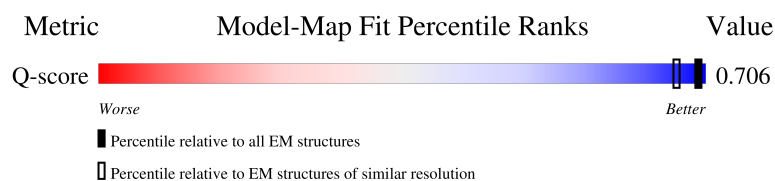
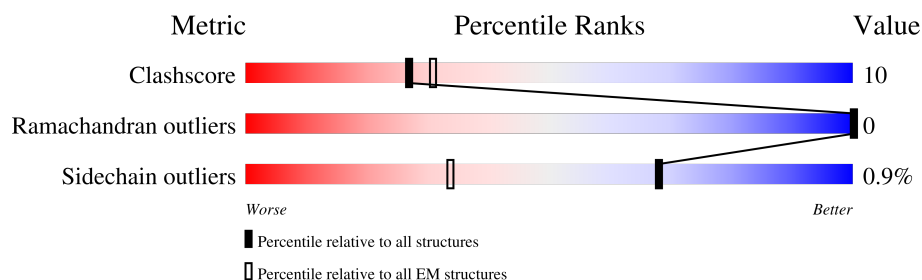
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.32 Å.

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



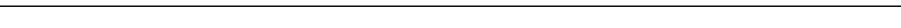
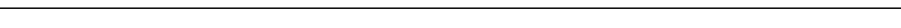
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	4359 (1.82 - 2.82)

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	0	738	
1	1	738	
1	2	738	
1	3	738	

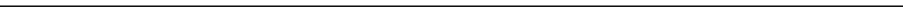
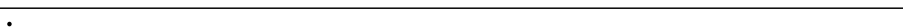
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Mol	Chain	Length	Quality of chain
1	4	738	
1	5	738	
1	6	738	
1	7	738	
1	A	738	
1	B	738	
1	C	738	
1	D	738	
1	E	738	
1	F	738	
1	G	738	
1	H	738	
1	I	738	
1	J	738	
1	K	738	
1	L	738	
1	M	738	
1	N	738	
1	O	738	
1	P	738	
1	Q	738	
1	R	738	
1	S	738	
1	T	738	
1	U	738	

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Mol	Chain	Length	Quality of chain
1	V	738	
1	W	738	
1	X	738	
1	Y	738	
1	Z	738	
1	a	738	
1	b	738	
1	c	738	
1	d	738	
1	e	738	
1	f	738	
1	g	738	
1	h	738	
1	i	738	
1	j	738	
1	k	738	
1	l	738	
1	m	738	
1	n	738	
1	o	738	
1	p	738	
1	q	738	
1	r	738	
1	s	738	
1	t	738	

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Mol	Chain	Length	Quality of chain
1	u	738	
1	v	738	
1	w	738	
1	x	738	
1	y	738	
1	z	738	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 243000 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	1	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	A	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	B	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	C	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	D	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	E	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	d	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	i	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	n	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	s	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	x	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	3	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	e	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	j	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	o	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	t	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		
1	y	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	f	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	k	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	p	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	u	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	z	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	5	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	g	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	l	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	q	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	v	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	0	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	6	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	h	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	m	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	r	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	w	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	2	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	7	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	F	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	J	505	Total 4050	C 2563	N 700	O 774	S 13	0	0

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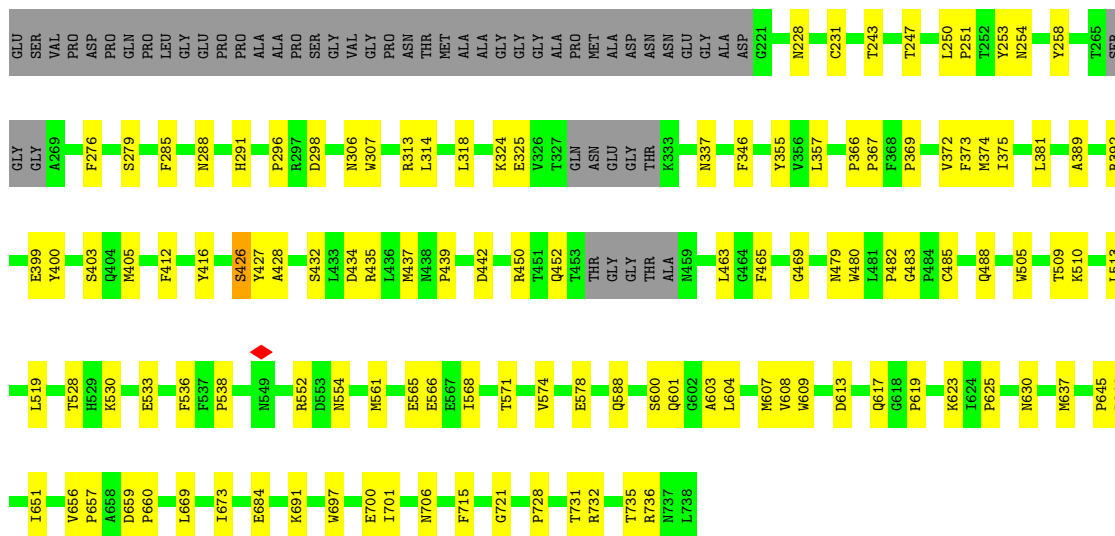
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	N	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	R	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	V	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	Z	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	G	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	K	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	O	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	S	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	W	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	a	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	H	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	L	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	P	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	T	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	X	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	b	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	I	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	M	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	Q	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	U	505	Total 4050	C 2563	N 700	O 774	S 13	0	0
1	Y	505	Total 4050	C 2563	N 700	O 774	S 13	0	0

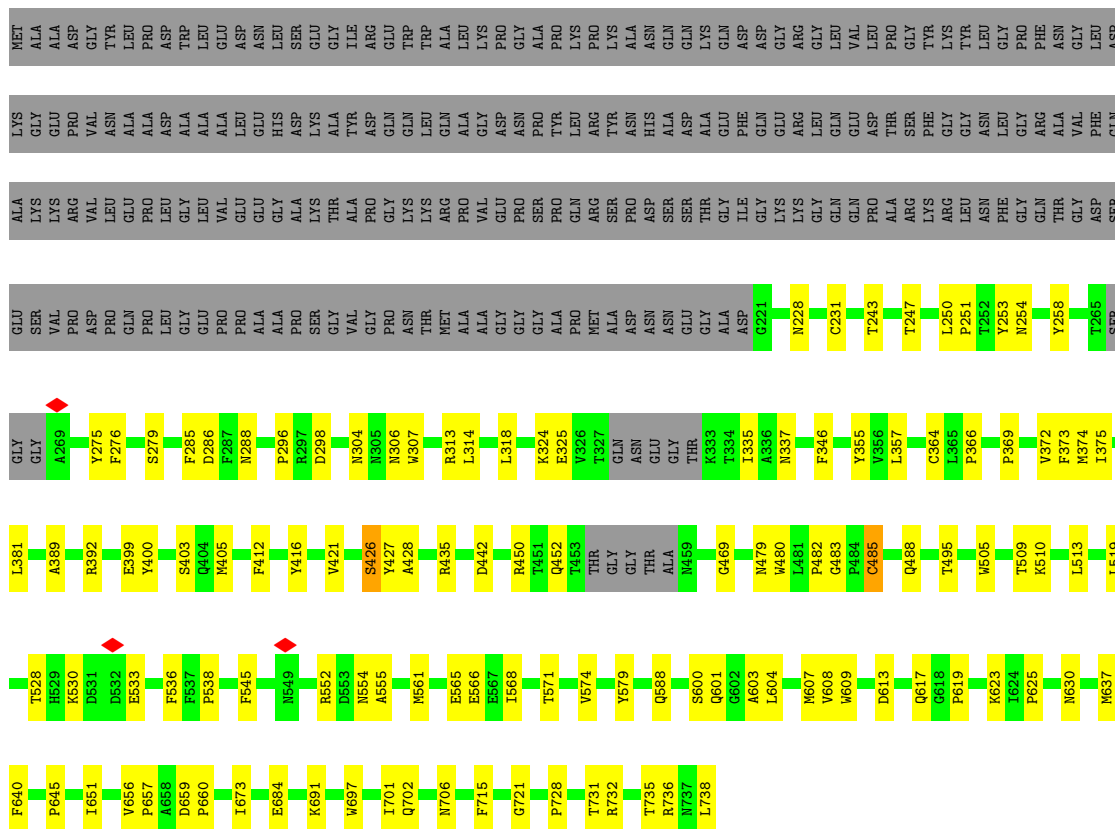
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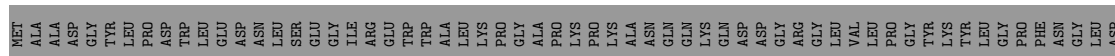
Mol	Chain	Residues	Atoms					AltConf	Trace
1	c	505	Total	C	N	O	S	0	0
			4050	2563	700	774	13		

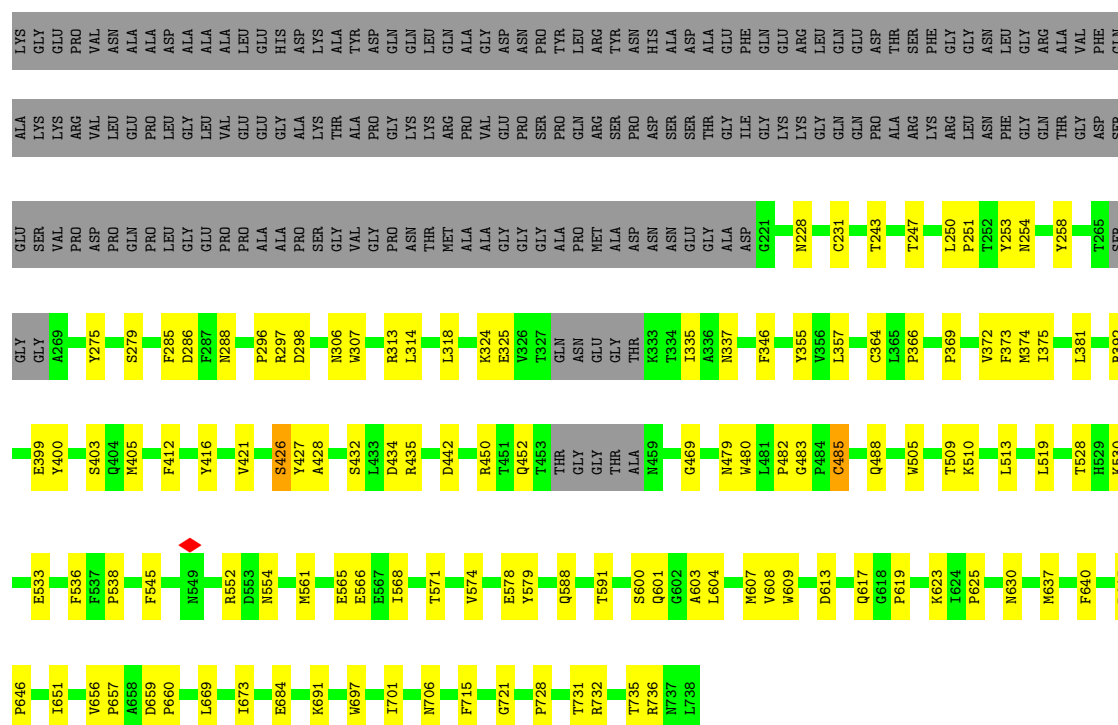


- Molecule 1: Capsid protein



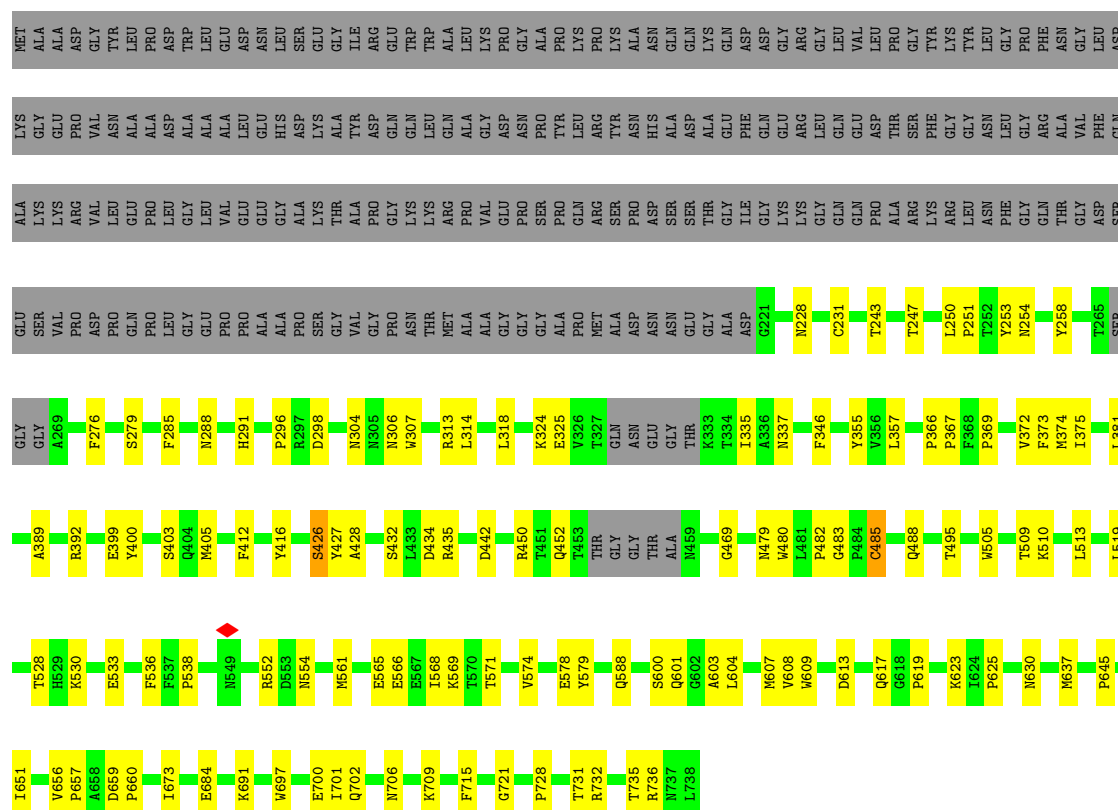
- Molecule 1: Capsid protein





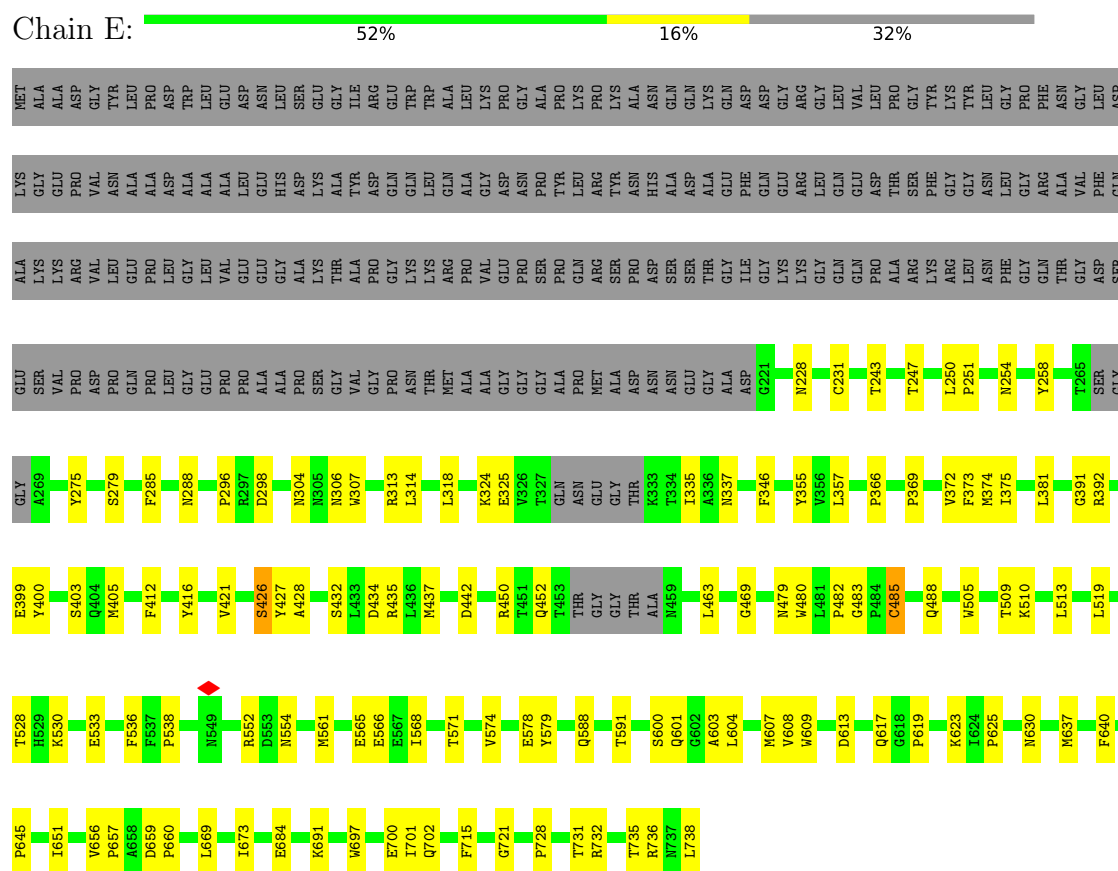
● Molecule 1: Capsid protein

Chain D: 52% 16% 32%



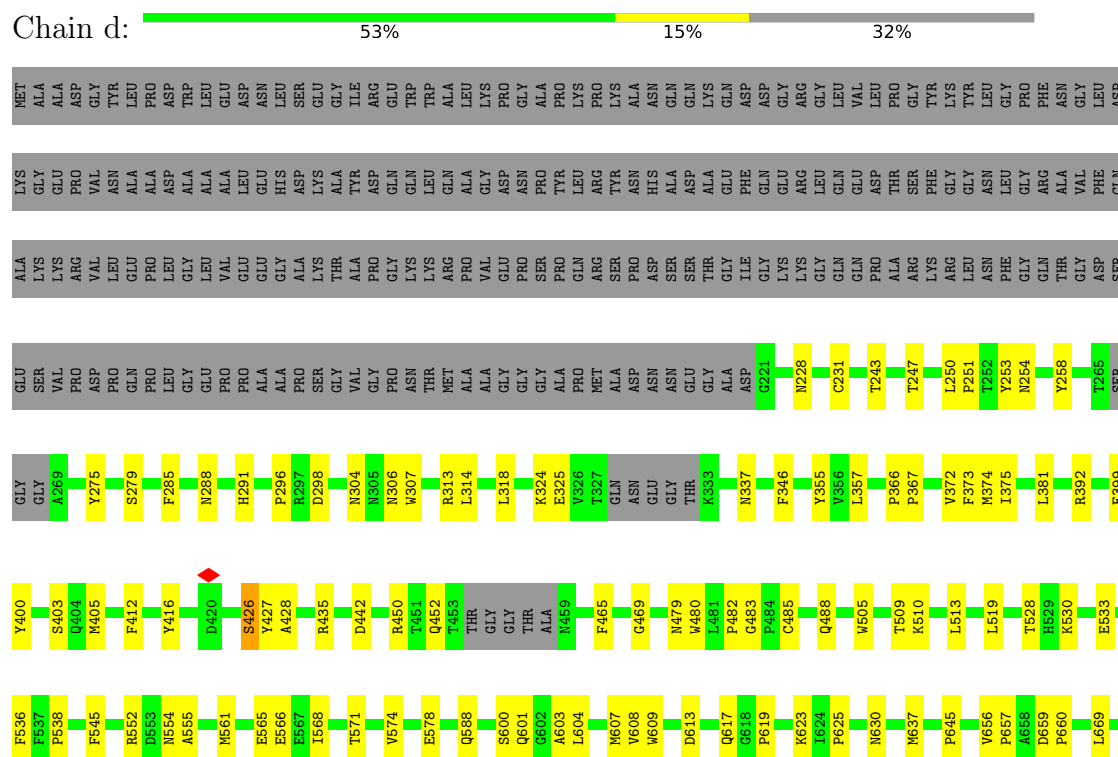
● Molecule 1: Capsid protein

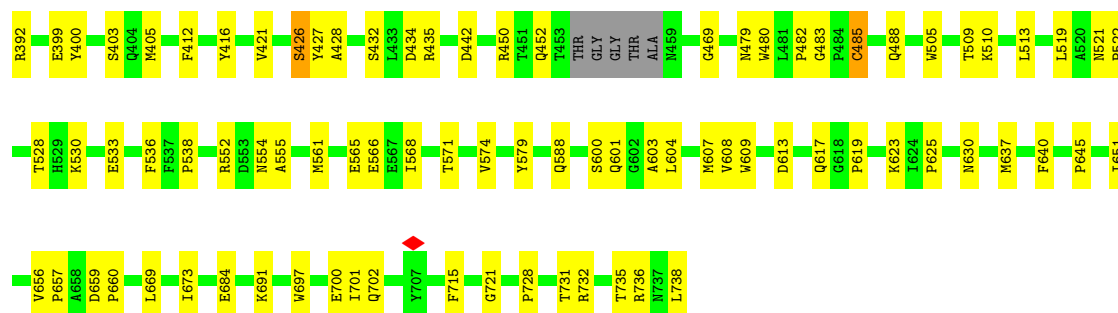
Chain E:



● Molecule 1: Capsid protein

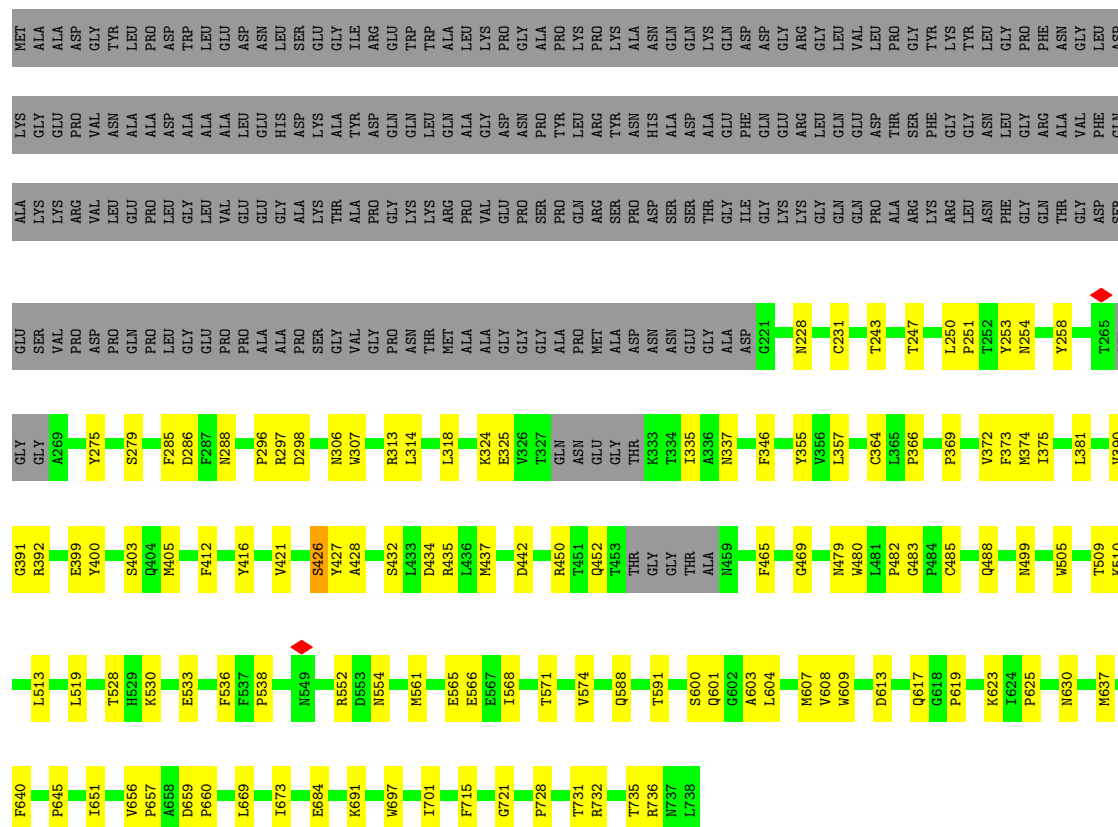
Chain d:





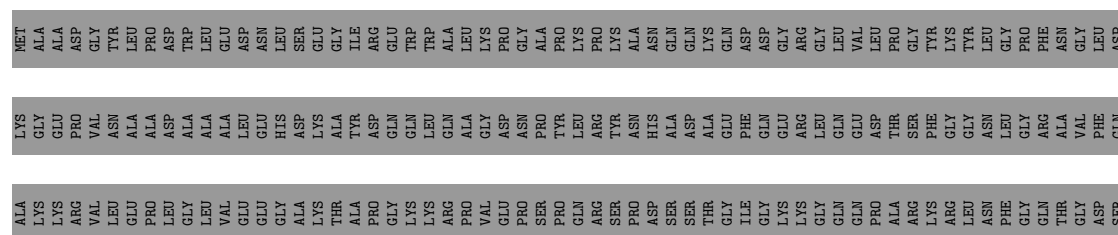
• Molecule 1: Capsid protein

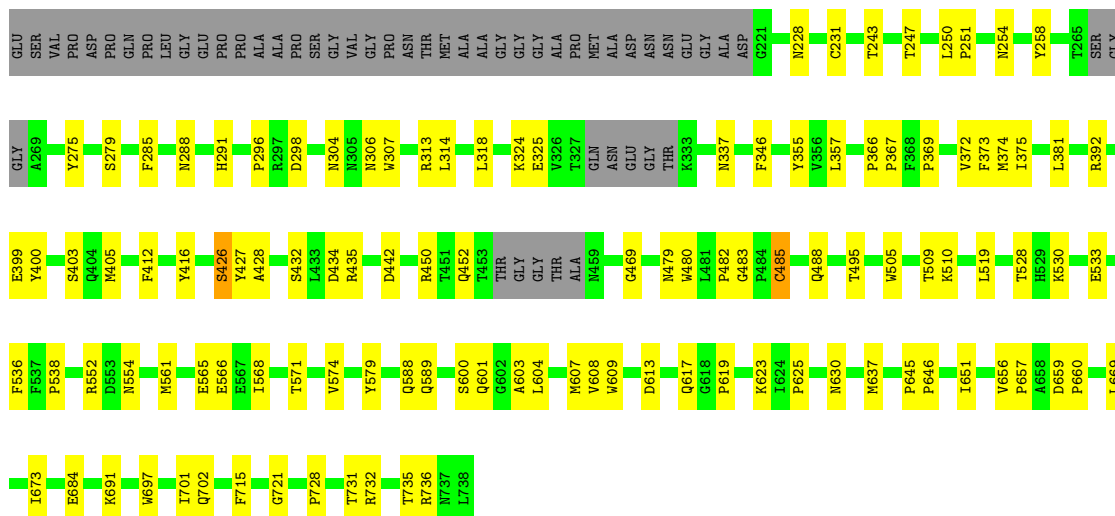
Chain s: 52% 16% 32%



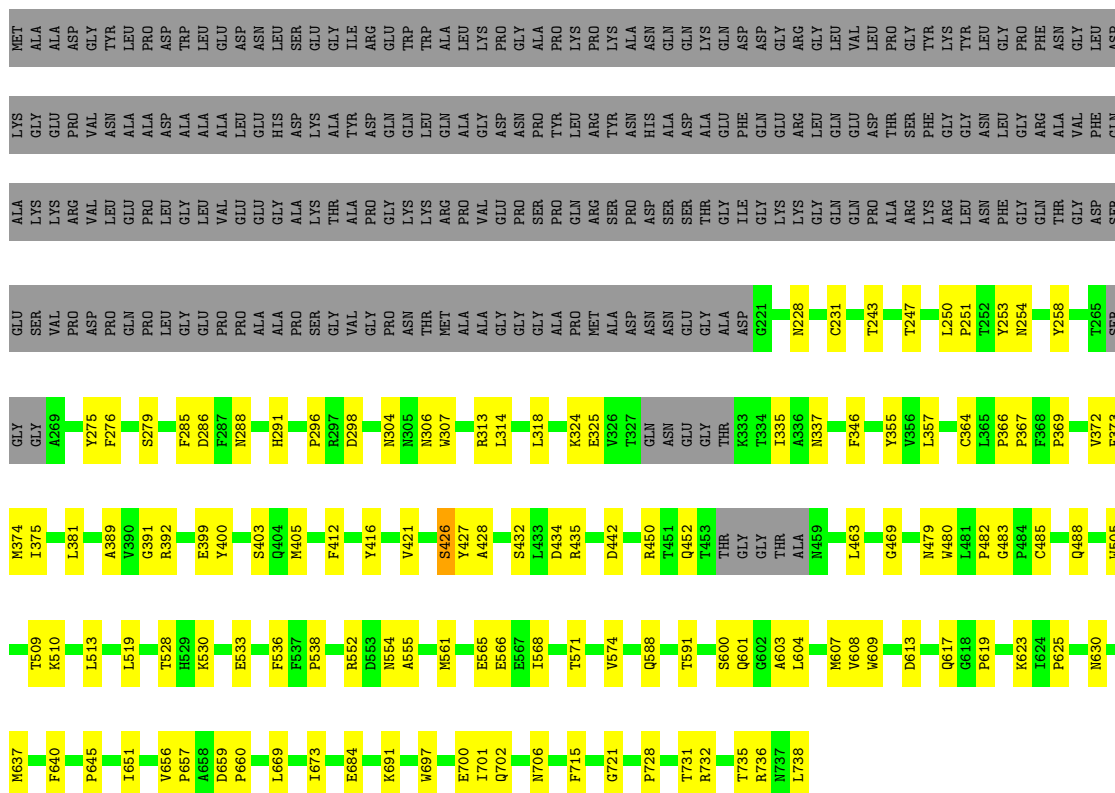
• Molecule 1: Capsid protein

Chain x: 53% 15% 32%



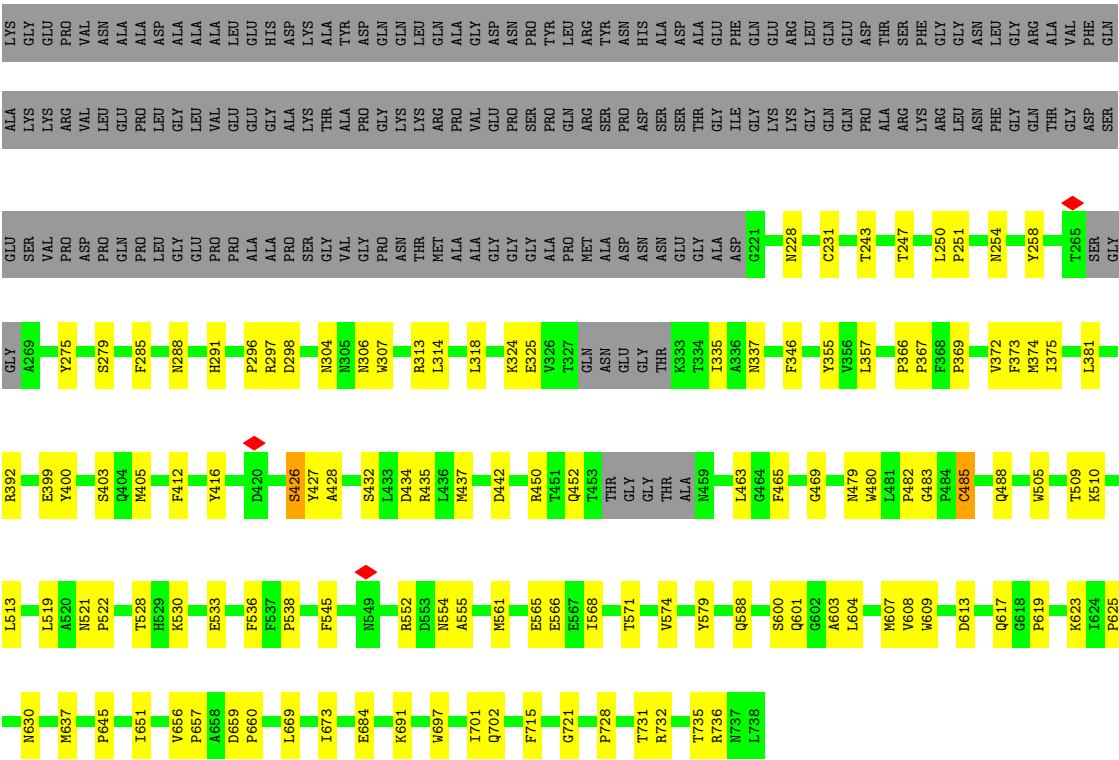


- Molecule 1: Capsid protein

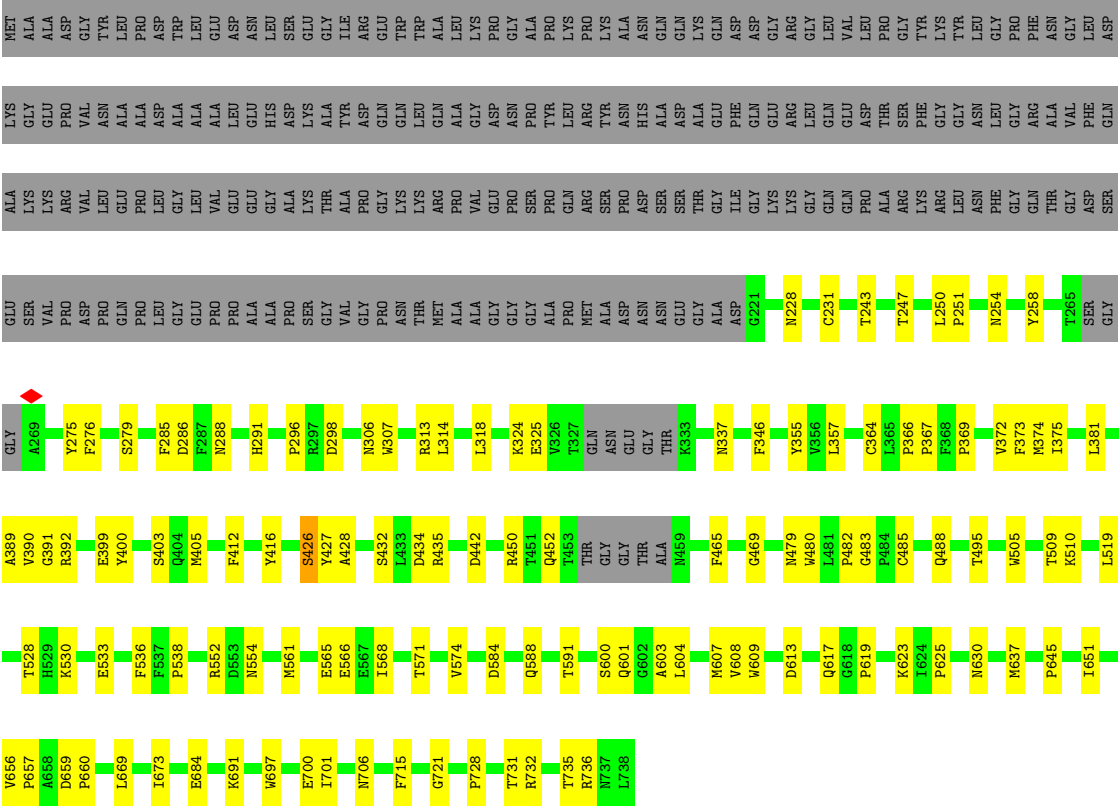


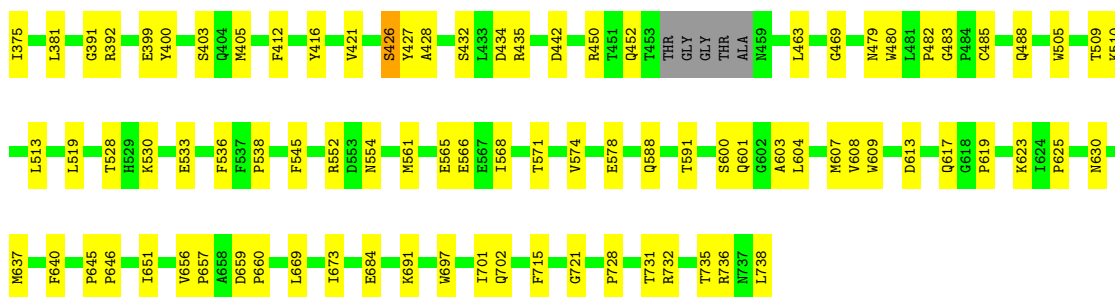
- Molecule 1: Capsid protein



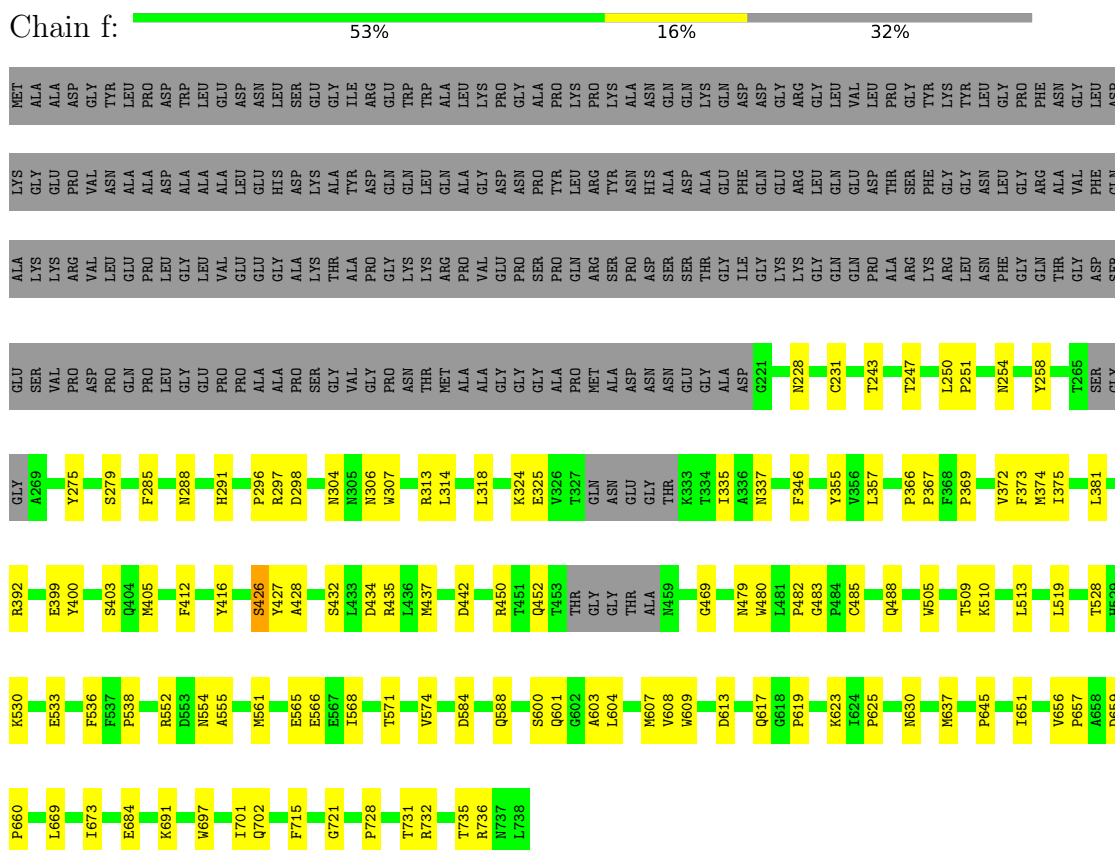


● Molecule 1: Capsid protein



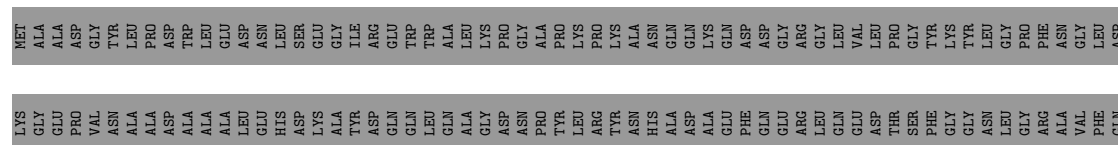


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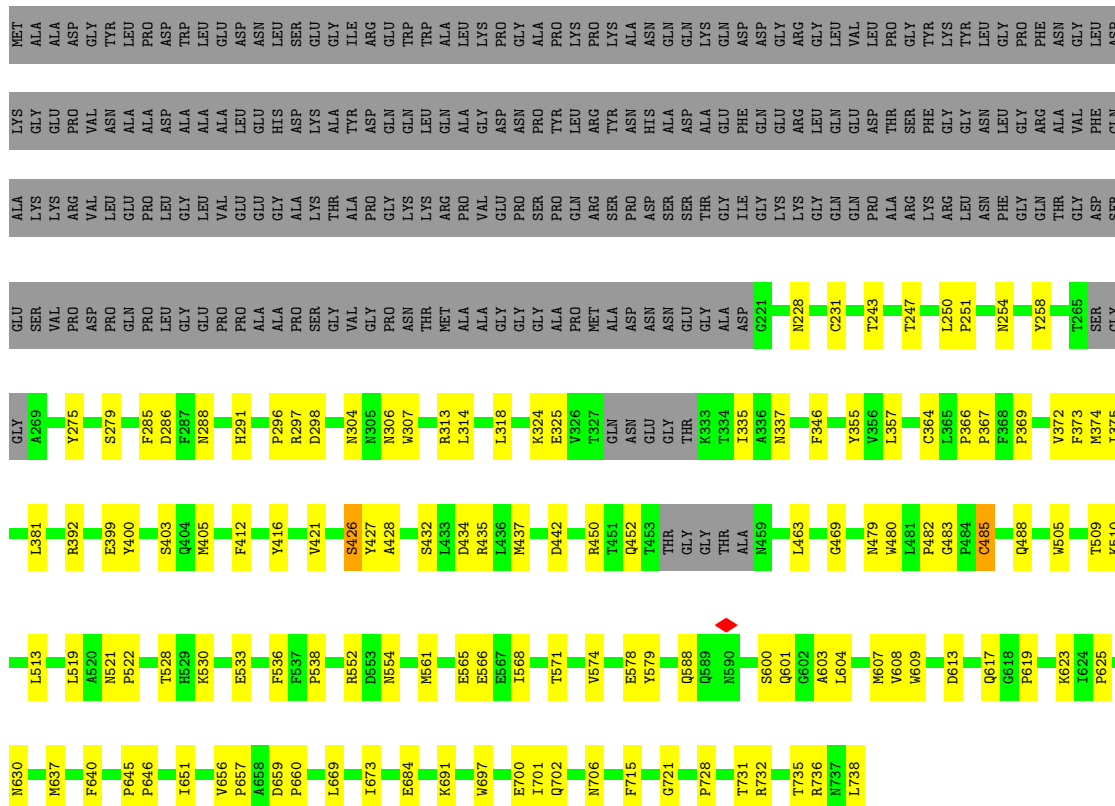


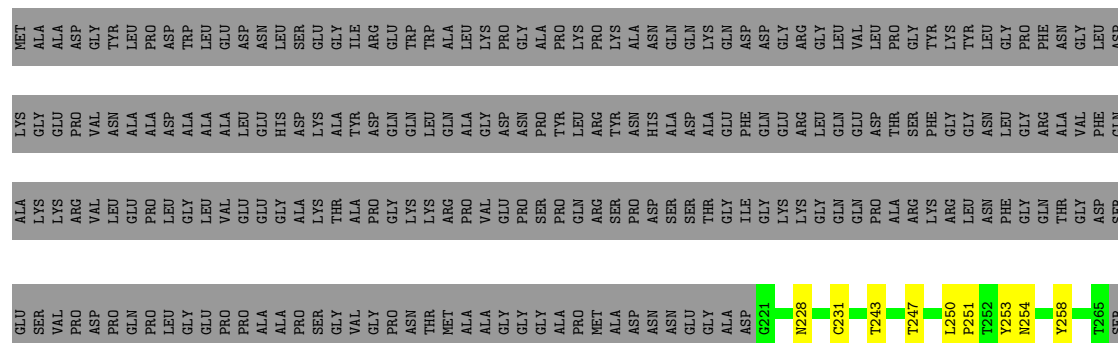
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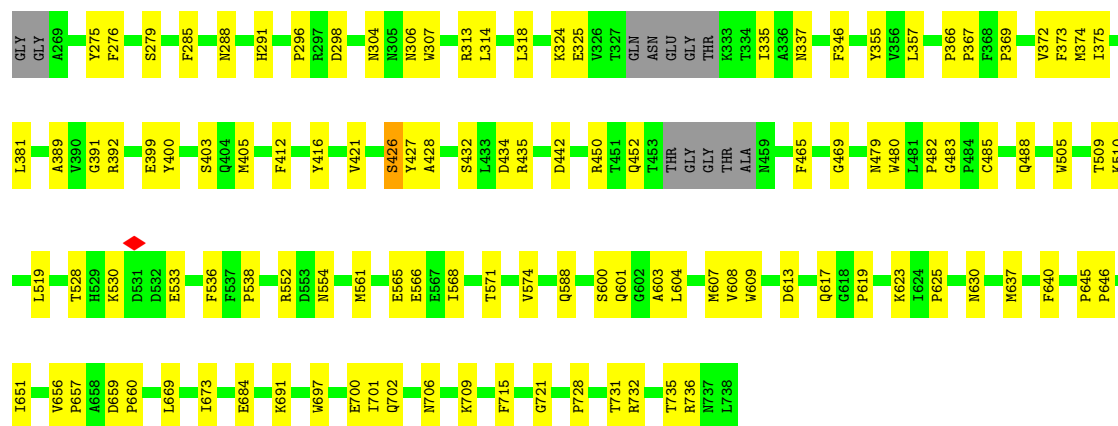






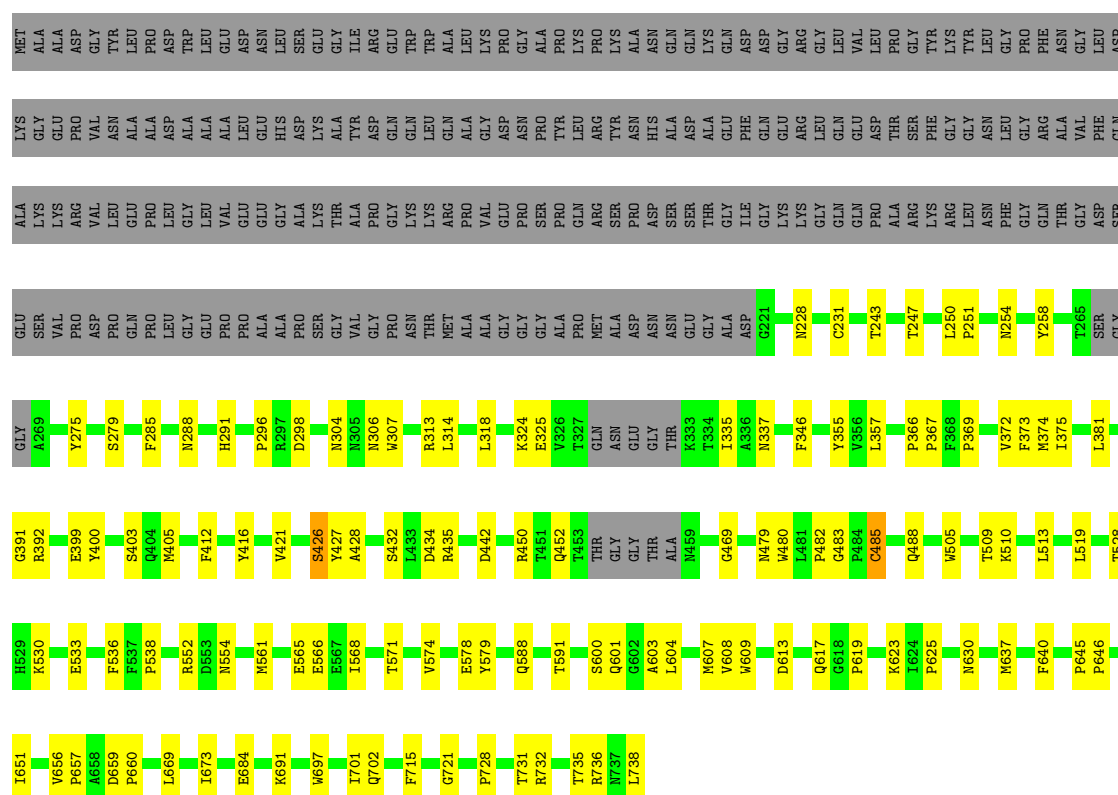






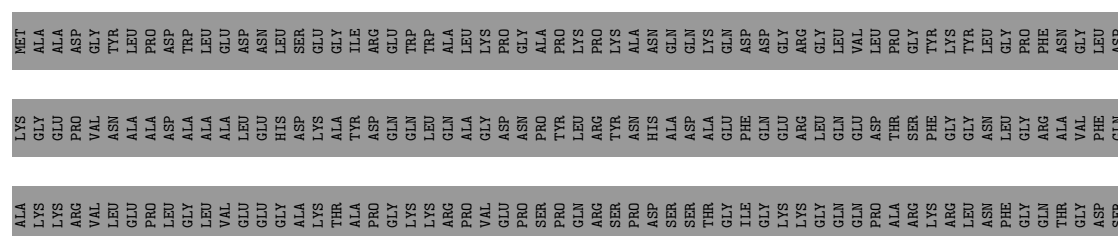
• Molecule 1: Capsid protein

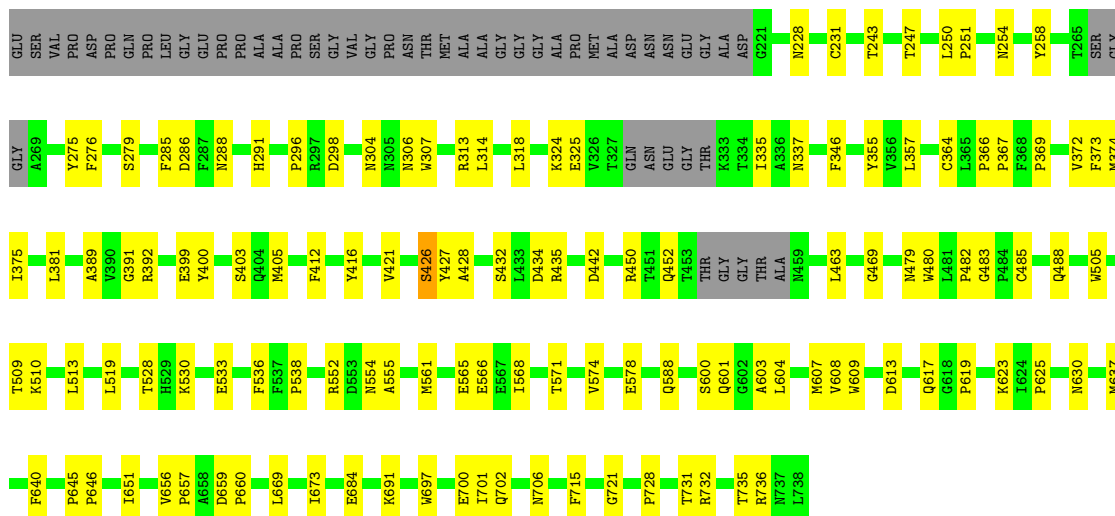
Chain 6: 52% 16% 32%



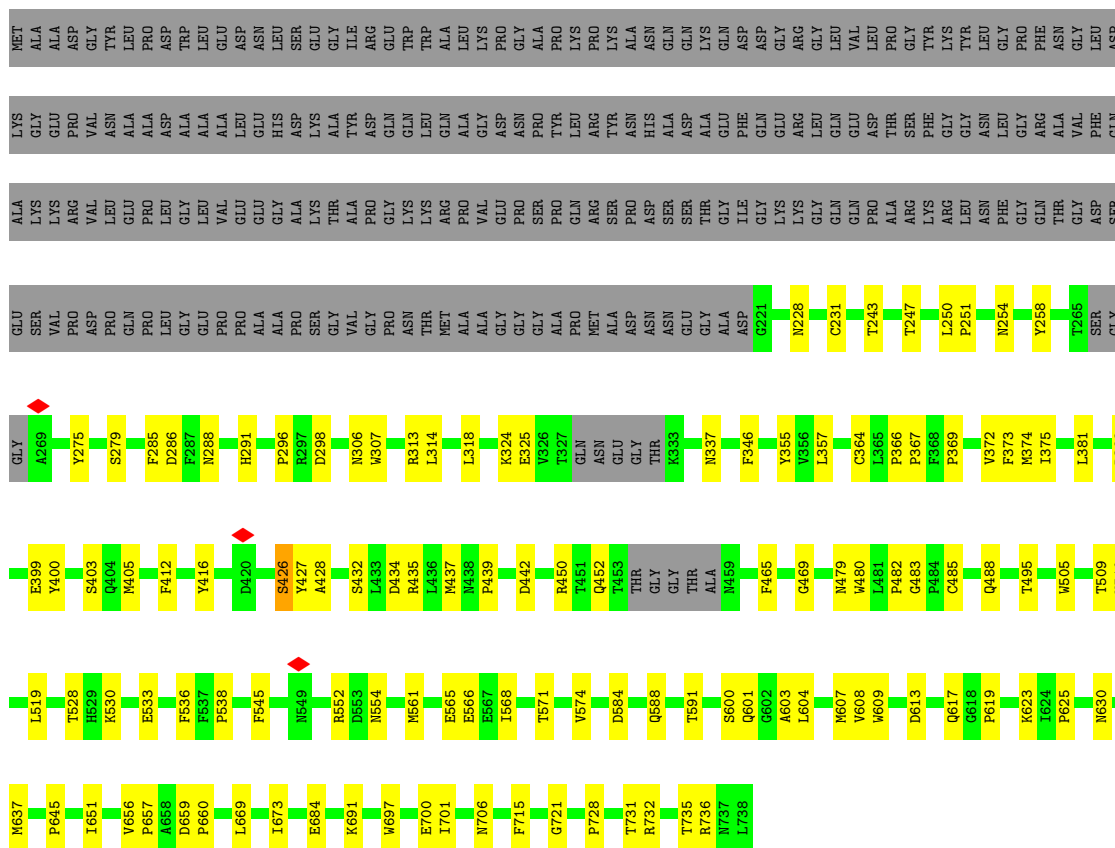
• Molecule 1: Capsid protein

Chain h: 51% 17% 32%

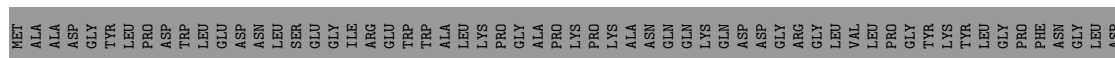


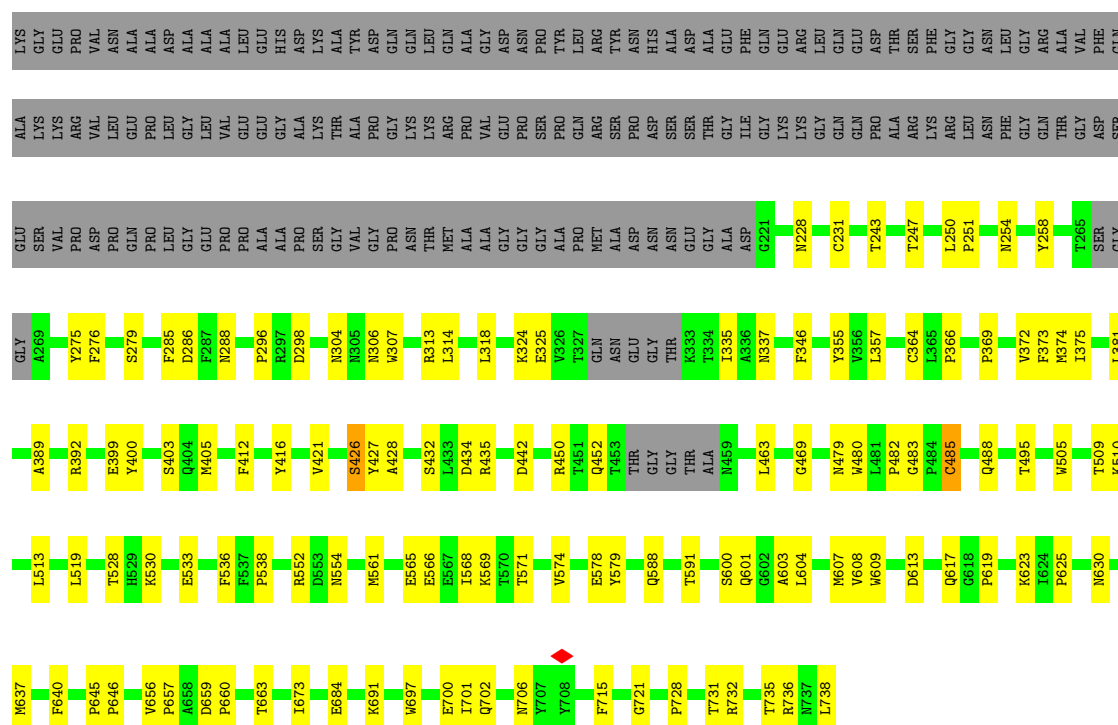


- Molecule 1: Capsid protein

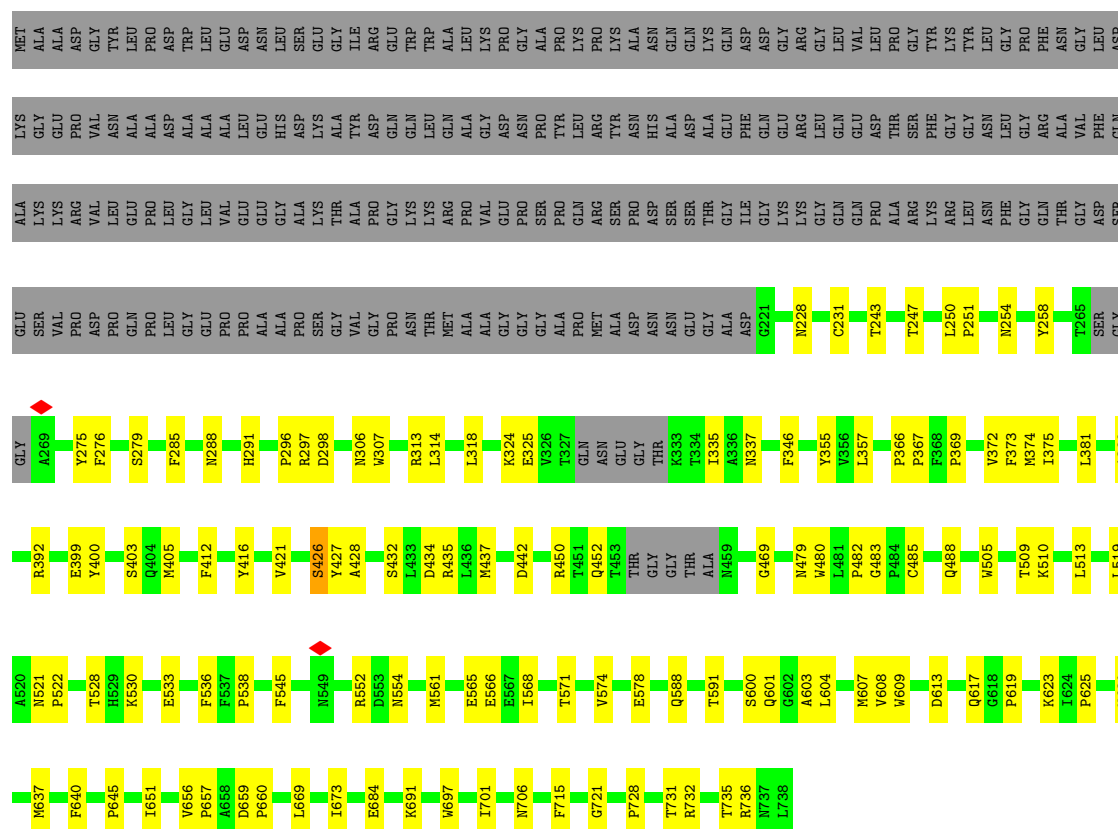


- Molecule 1: Capsid protein



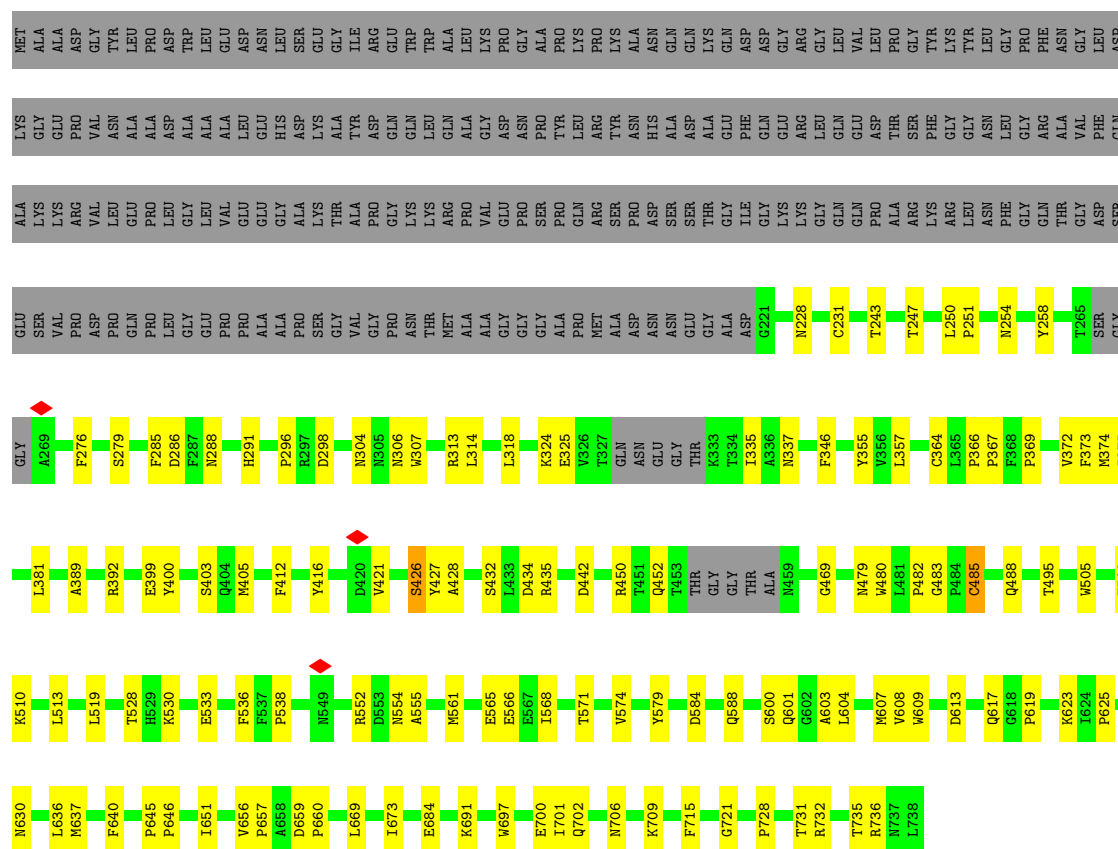


- Molecule 1: Capsid protein



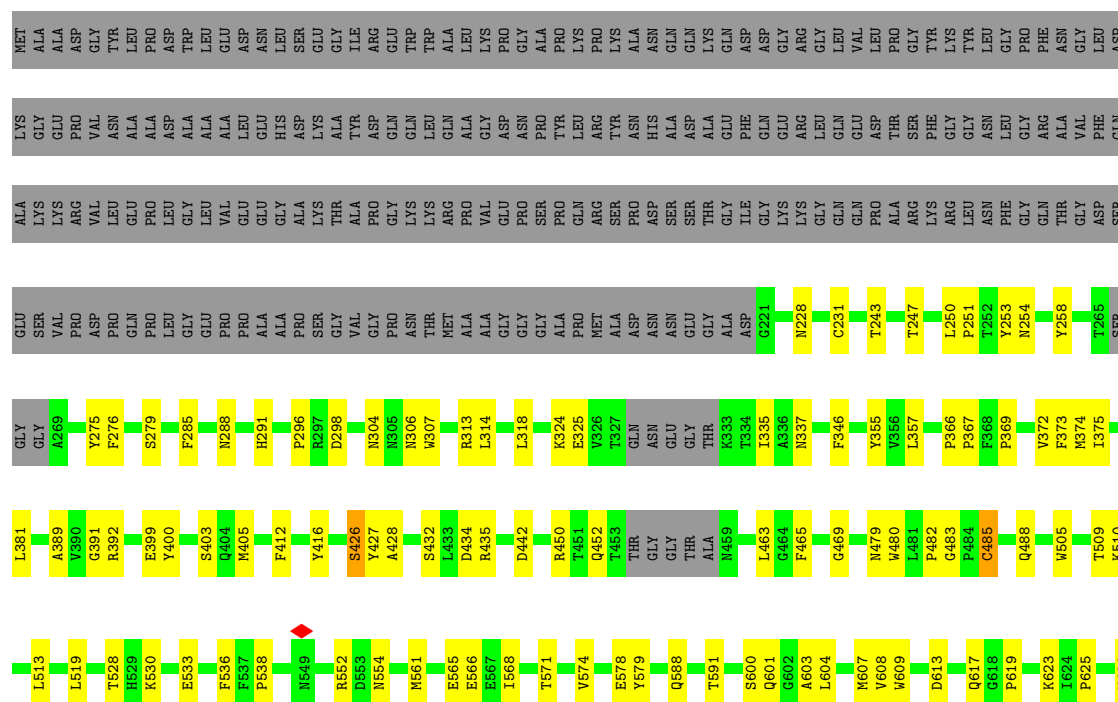
- Molecule 1: Capsid protein

Chain 2:  51% 17% 32%



• Molecule 1: Capsid protein

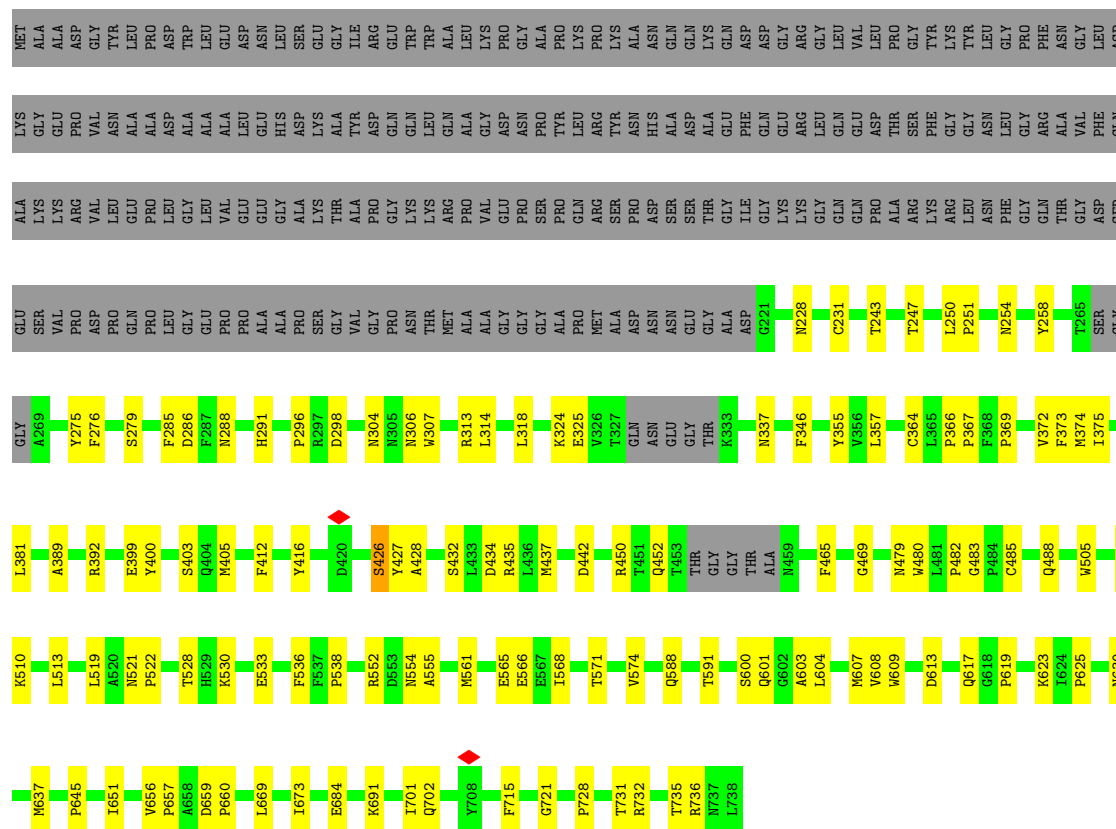
Chain 7:  52% 16% 32%





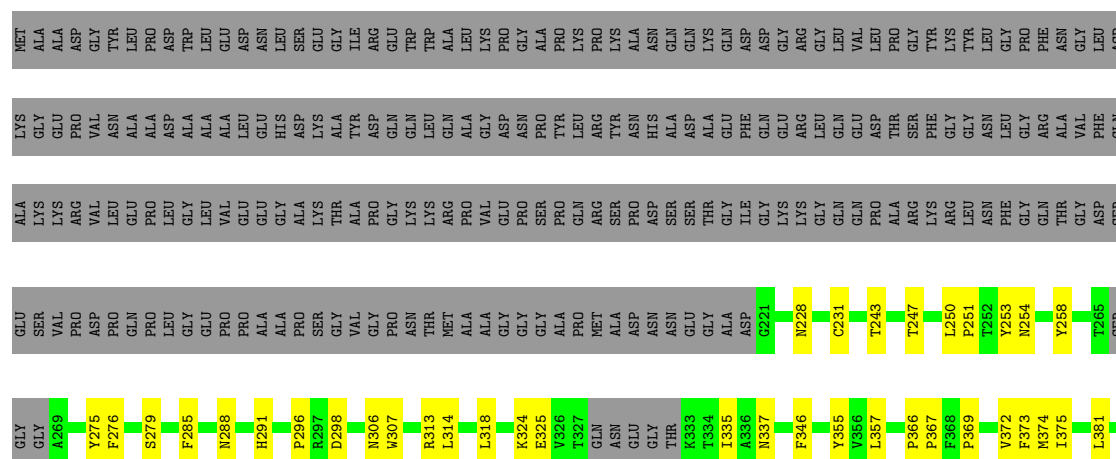
• Molecule 1: Capsid protein

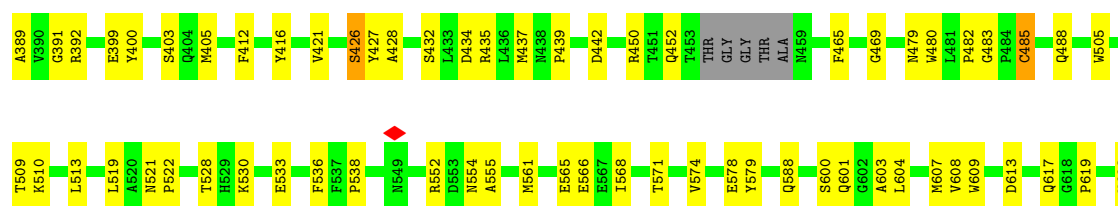
Chain F: 52% 16% 32%



• Molecule 1: Capsid protein

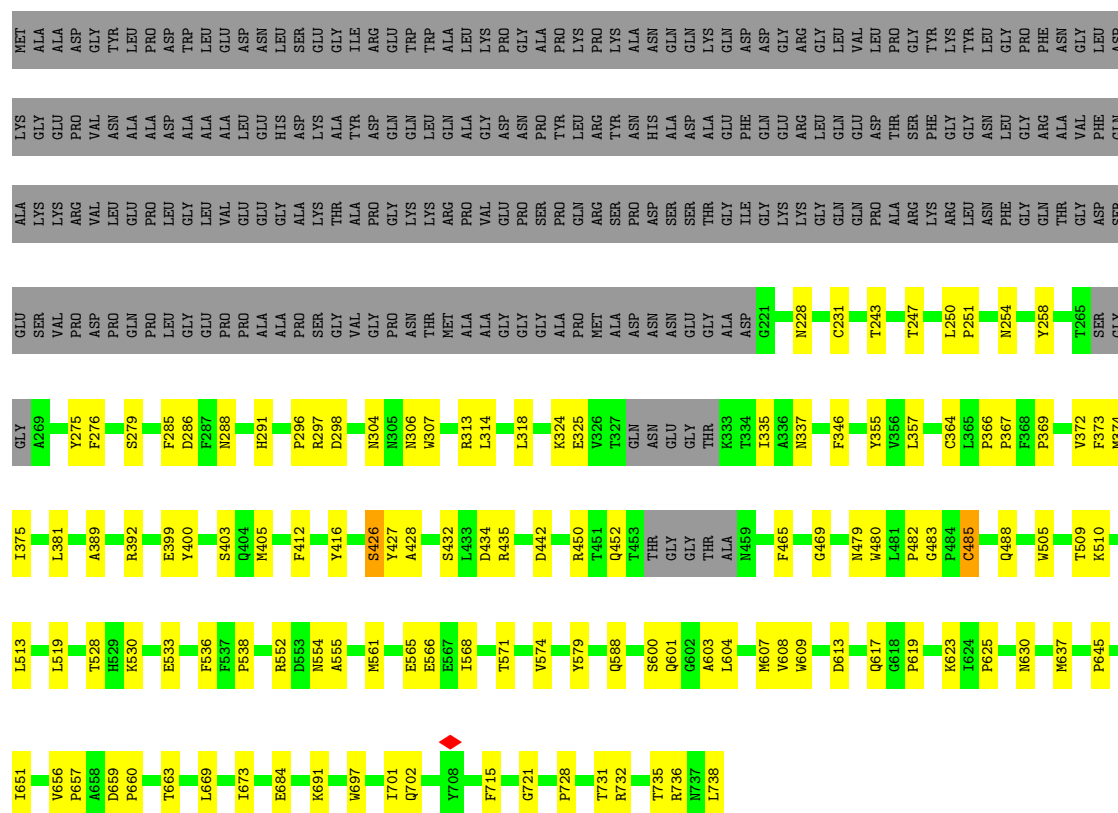
Chain J: 51% 17% 32%





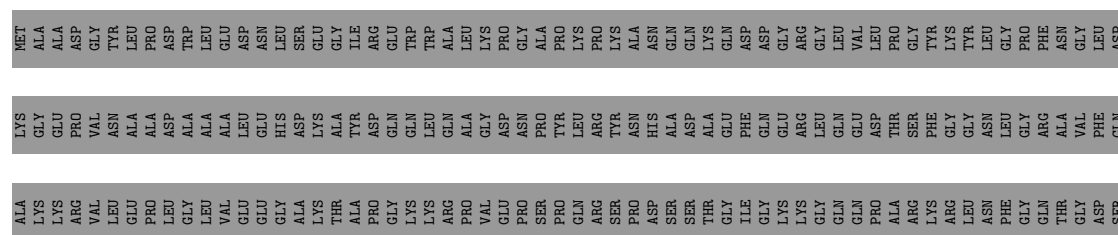
• Molecule 1: Capsid protein

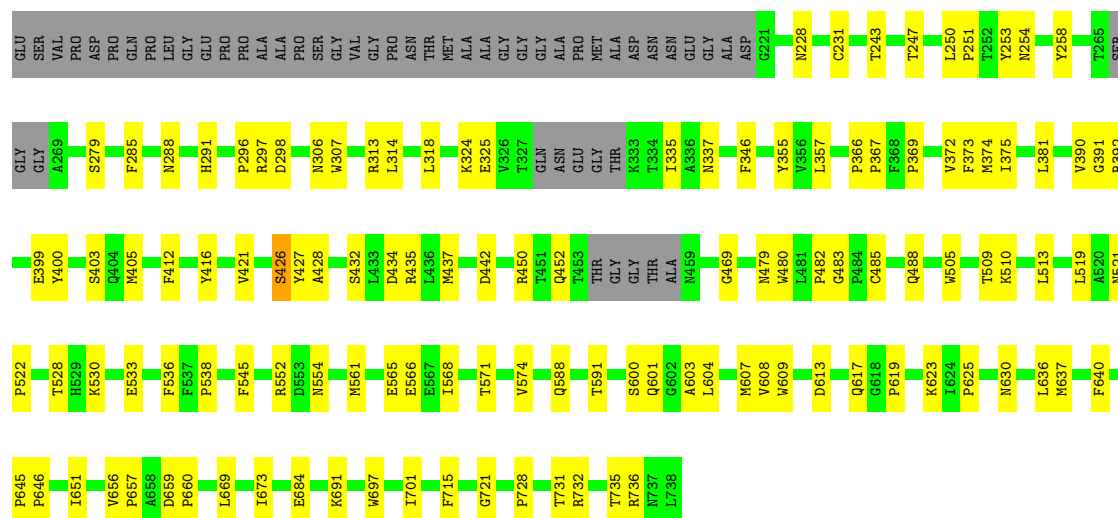
Chain N: 52% 16% 32%



• Molecule 1: Capsid protein

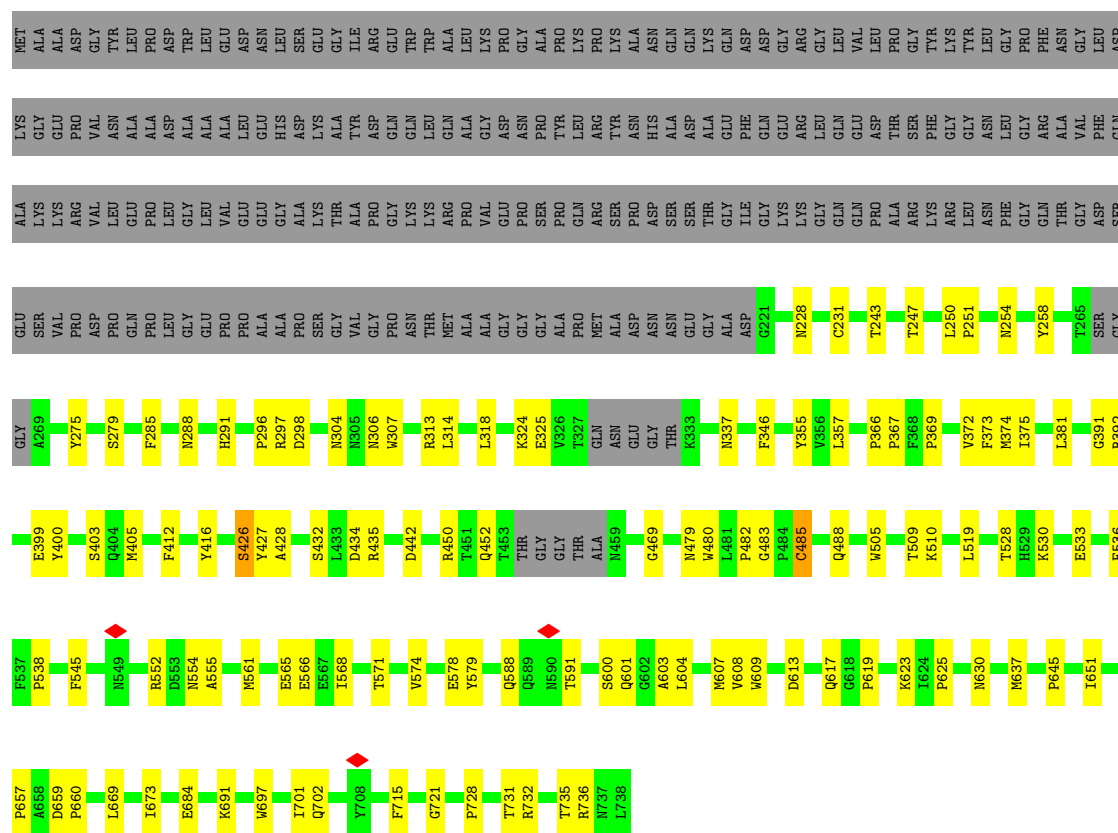
Chain R: 52% 16% 32%





● Molecule 1: Capsid protein

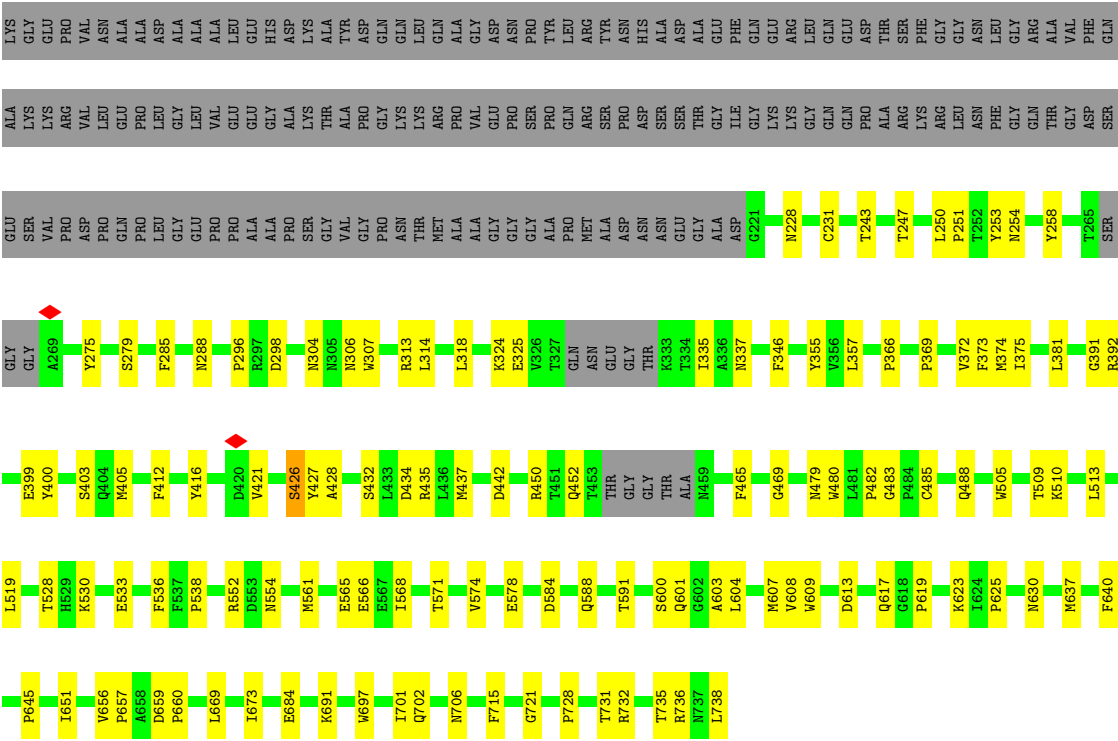
Chain V: 53% 16% 32%



● Molecule 1: Capsid protein

Chain Z: 52% 16% 32%





• Molecule 1: Capsid protein



• Molecule 1: Capsid protein

Response	Percentage
Used	52%
Not used	16%
Don't know	32%



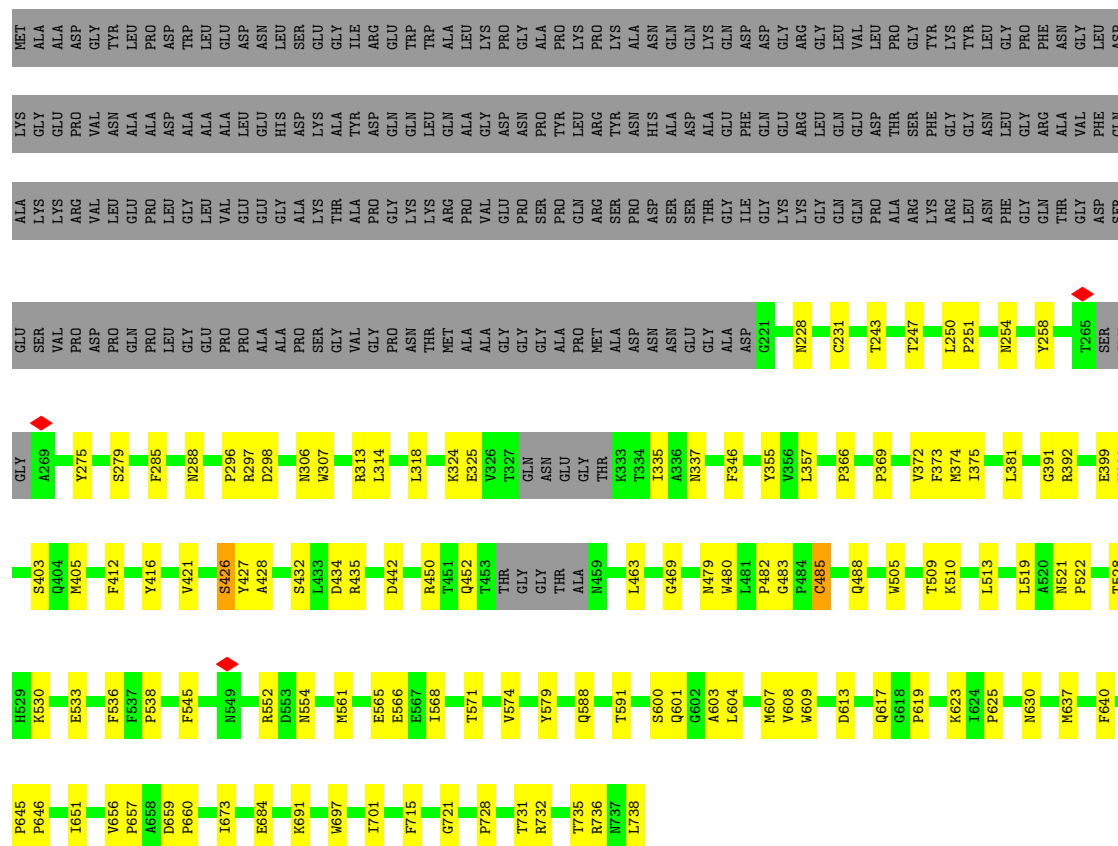
Response	Percentage
Used	52%
Not used	16%
Don't know	32%





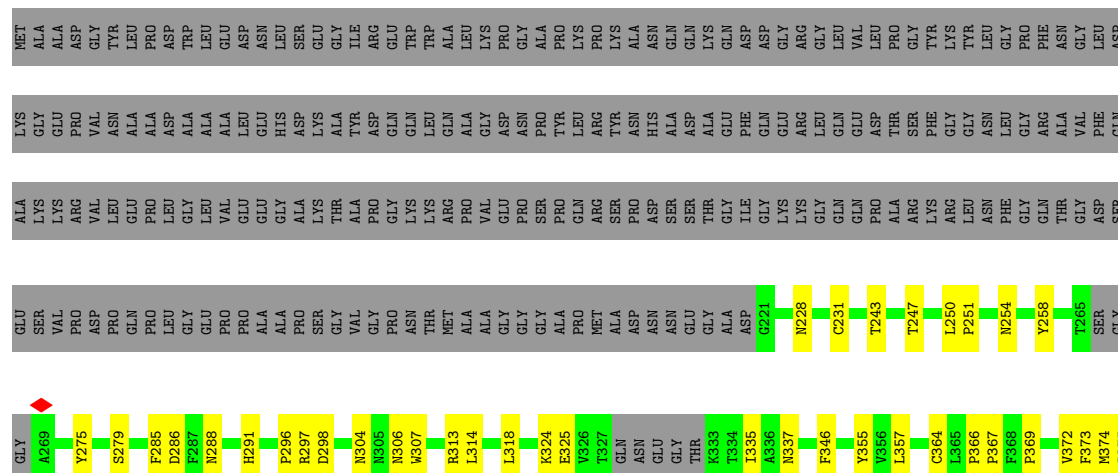
• Molecule 1: Capsid protein

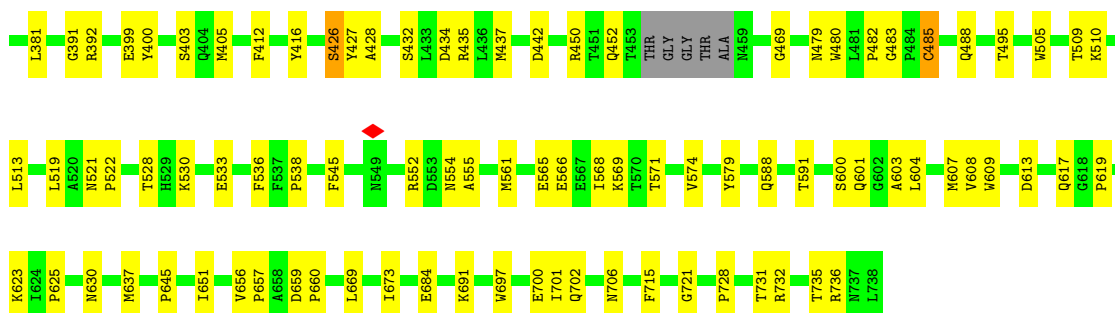
Chain S: 52% 16% 32%



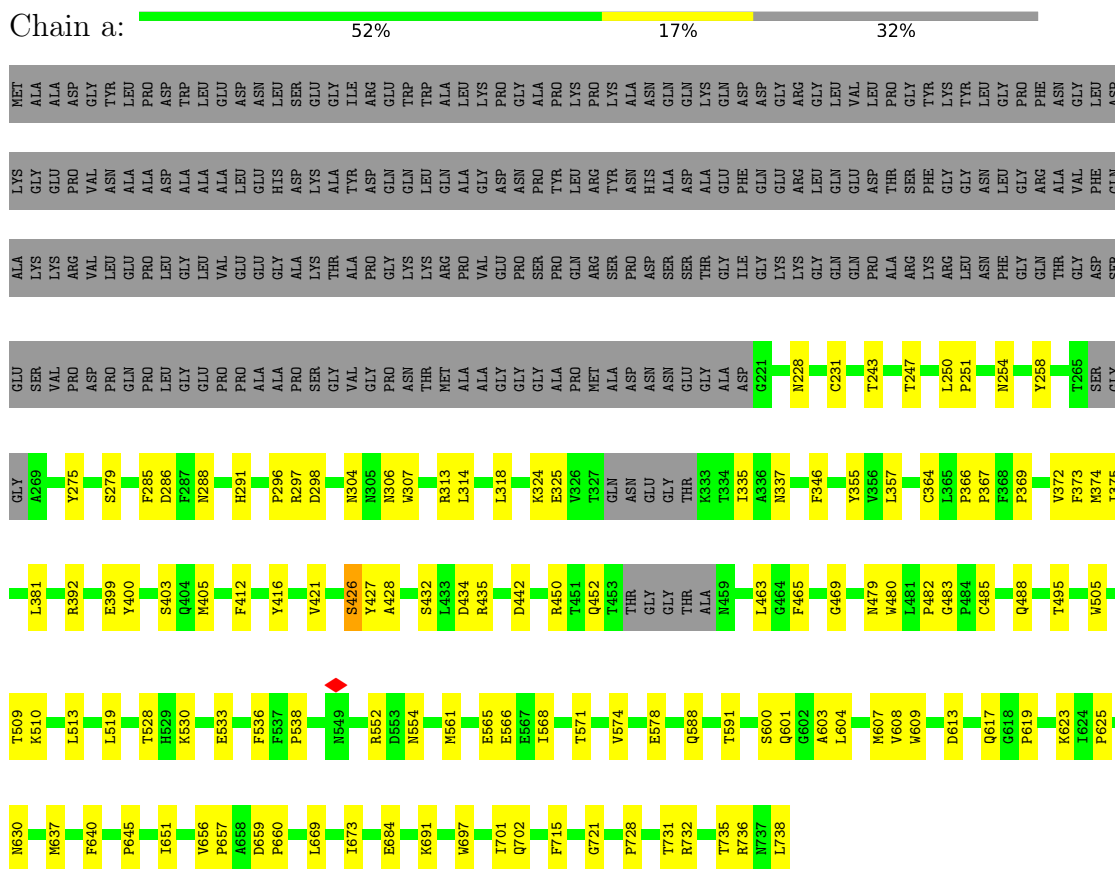
• Molecule 1: Capsid protein

Chain W: 51% 17% 32%

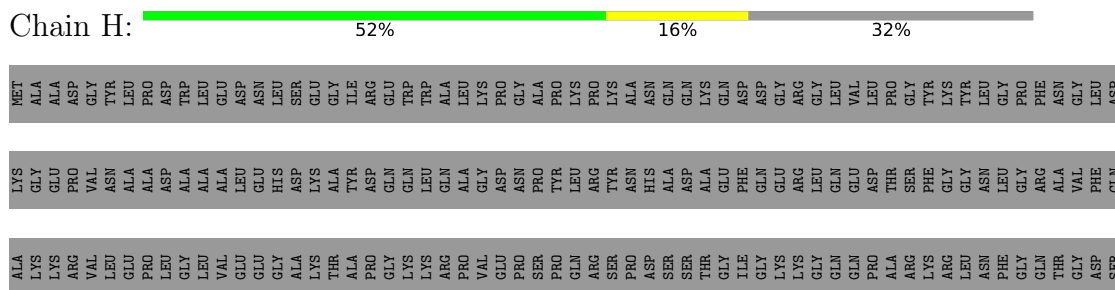


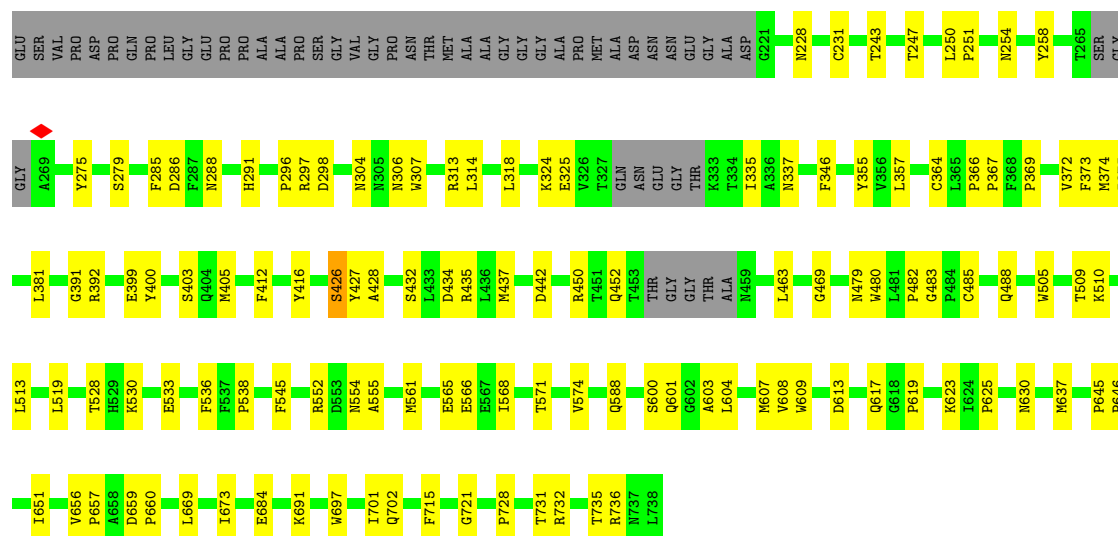


- Molecule 1: Capsid protein



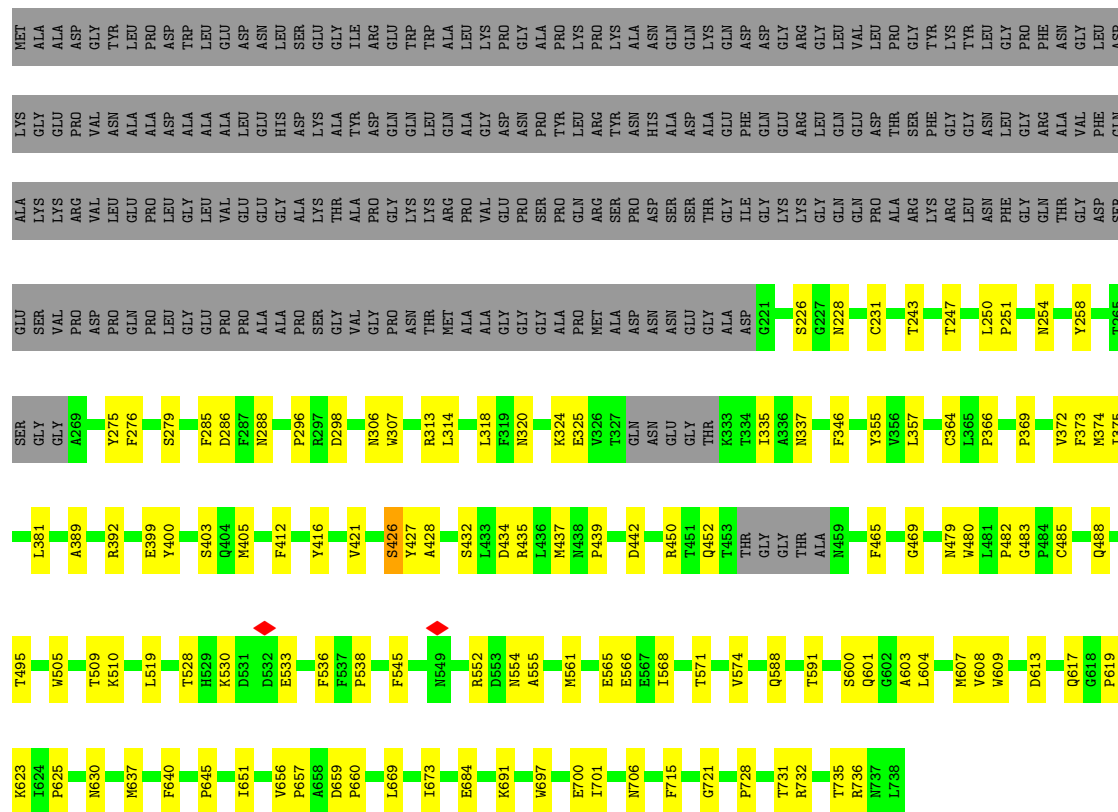
- Molecule 1: Capsid protein





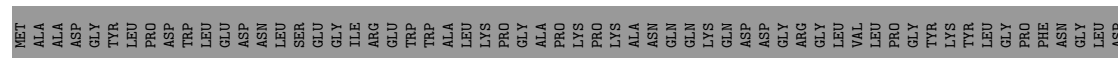
• Molecule 1: Capsid protein

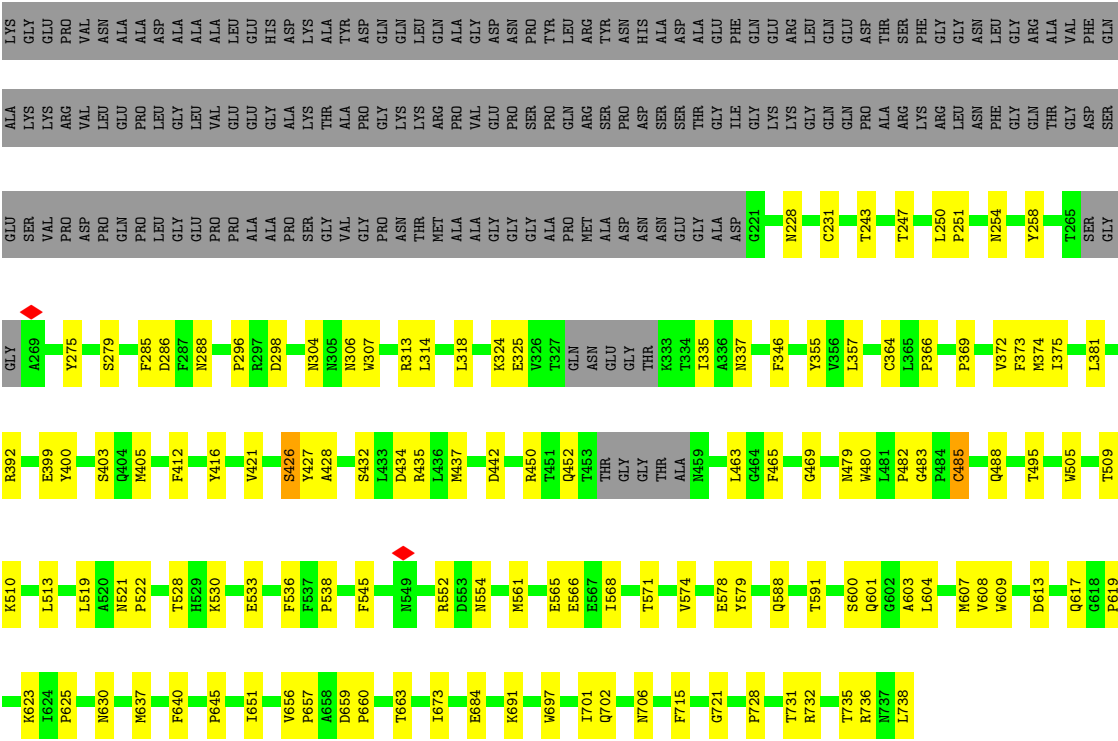
Chain L: 52% 17% 32%



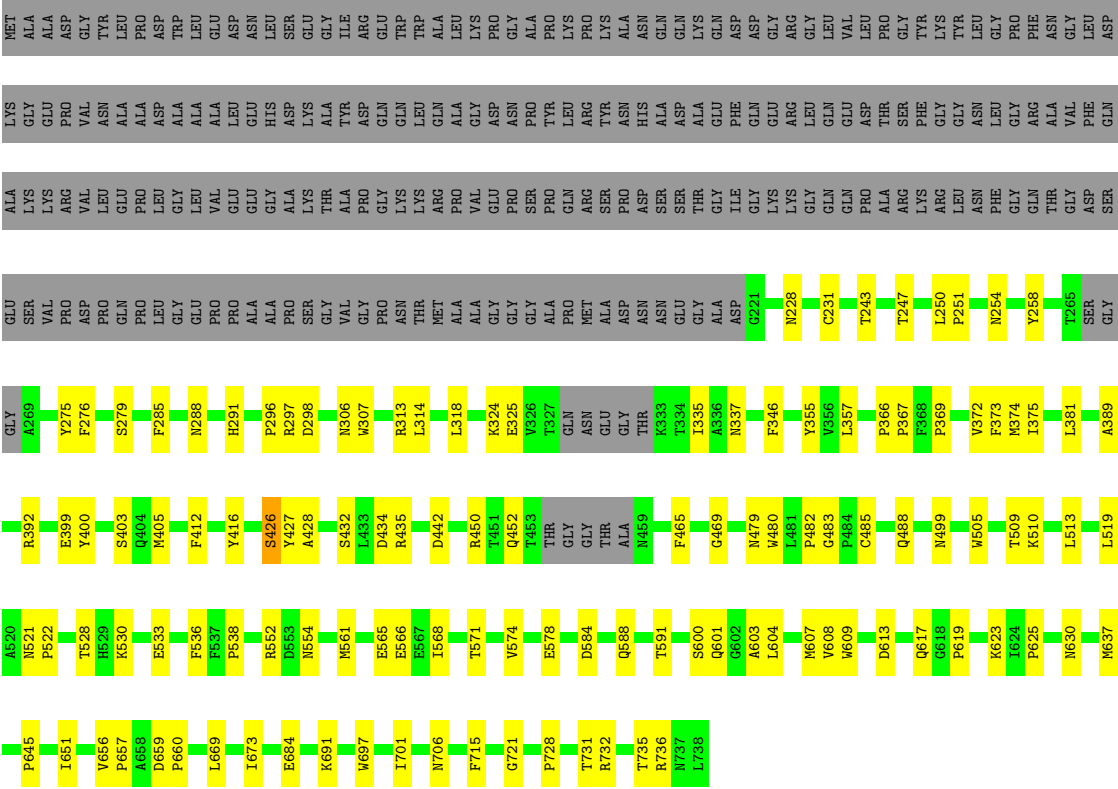
• Molecule 1: Capsid protein

Chain P: 51% 17% 32%



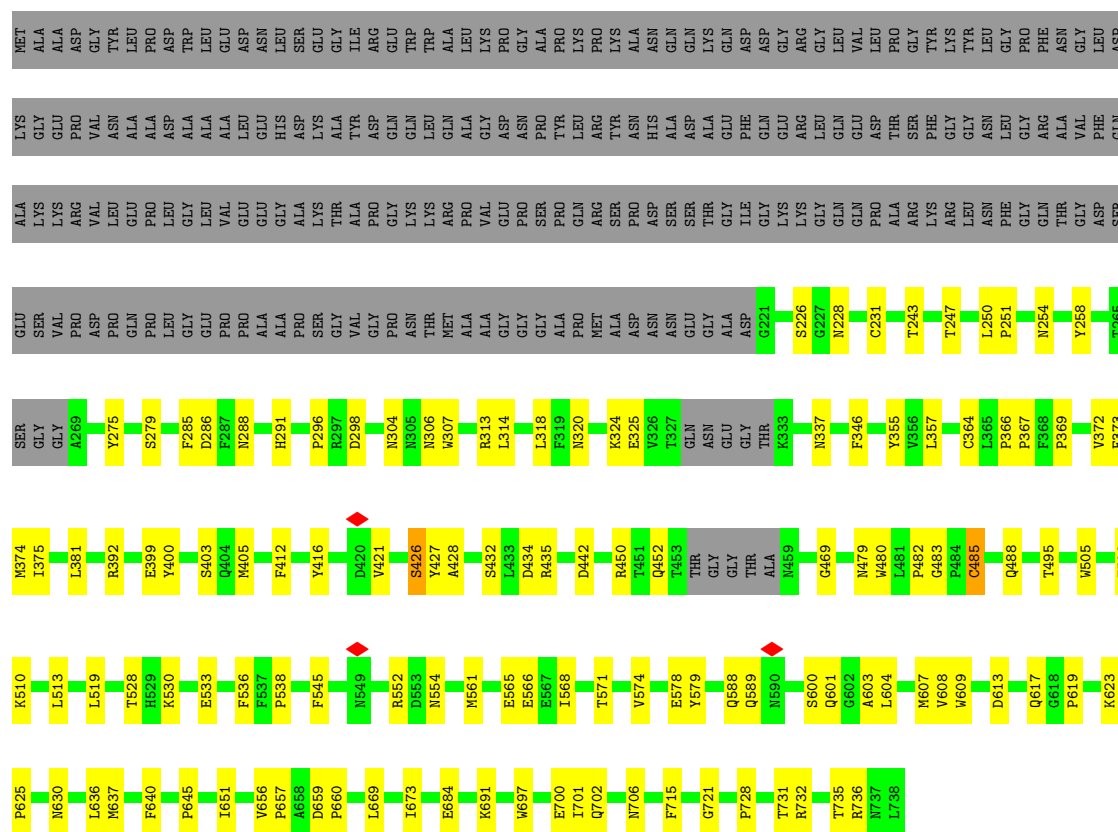


● Molecule 1: Capsid protein



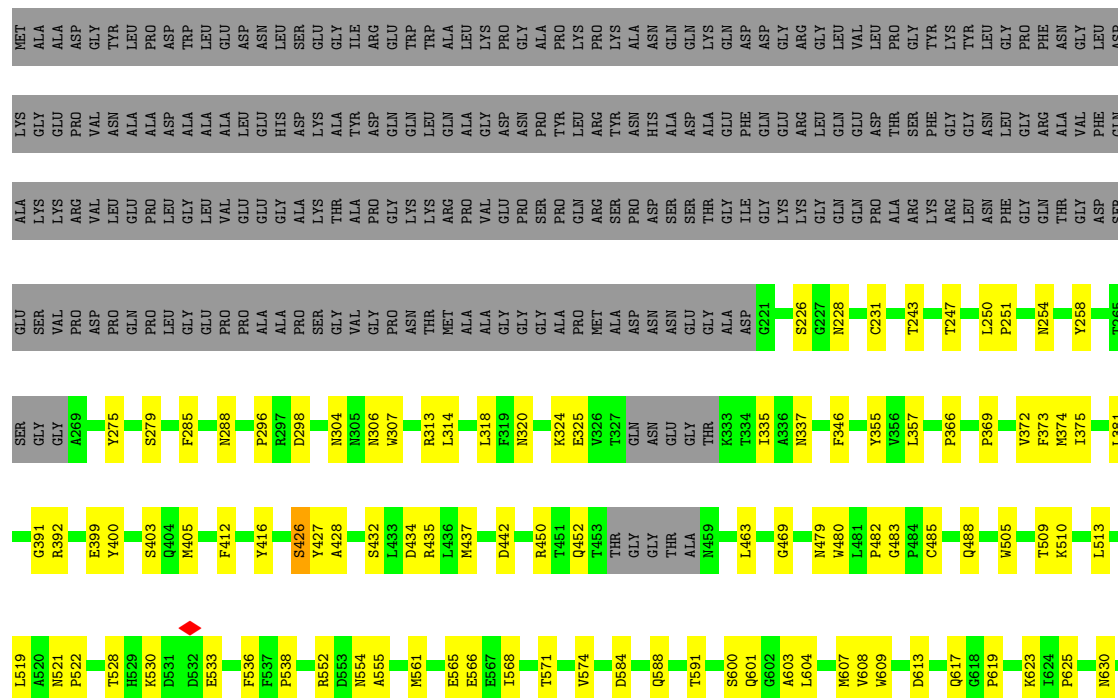
● Molecule 1: Capsid protein

Chain X:  51% 17% 32%



• Molecule 1: Capsid protein

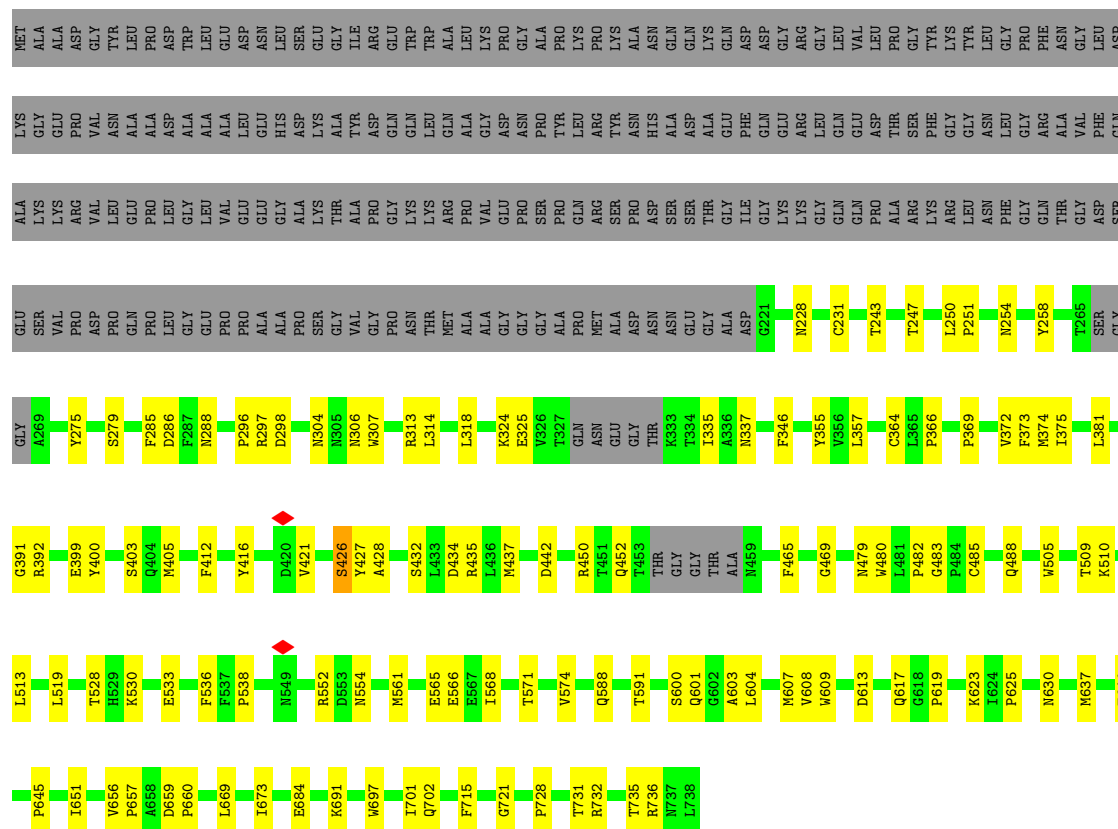
Chain b:  52% 17% 32%





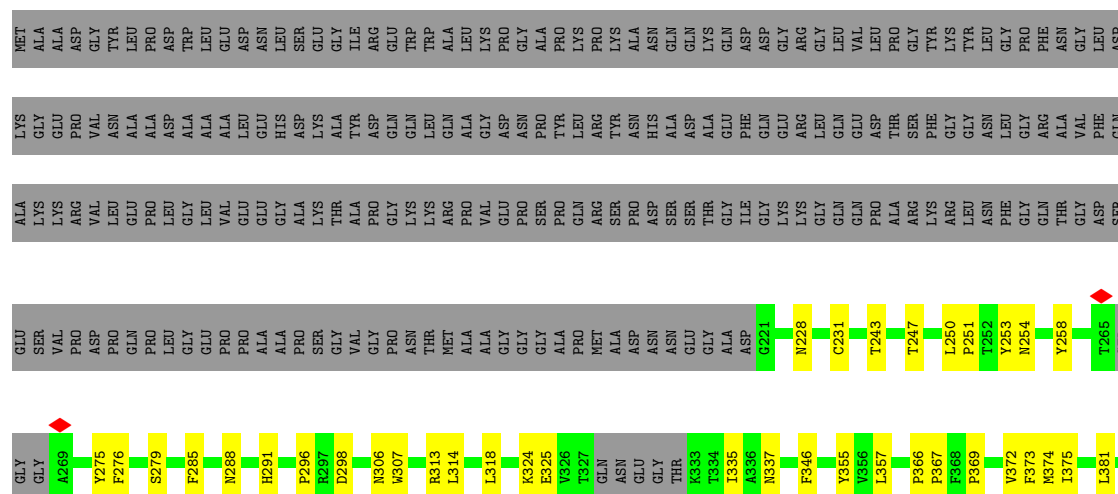
• Molecule 1: Capsid protein

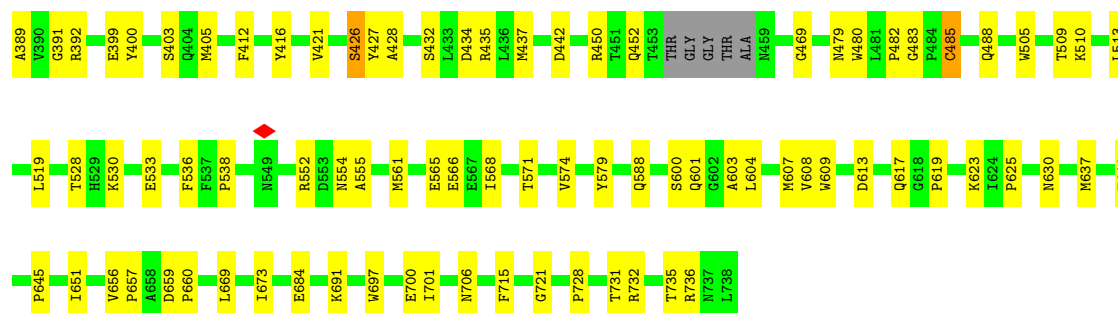
Chain I: 52% 16% 32%



• Molecule 1: Capsid protein

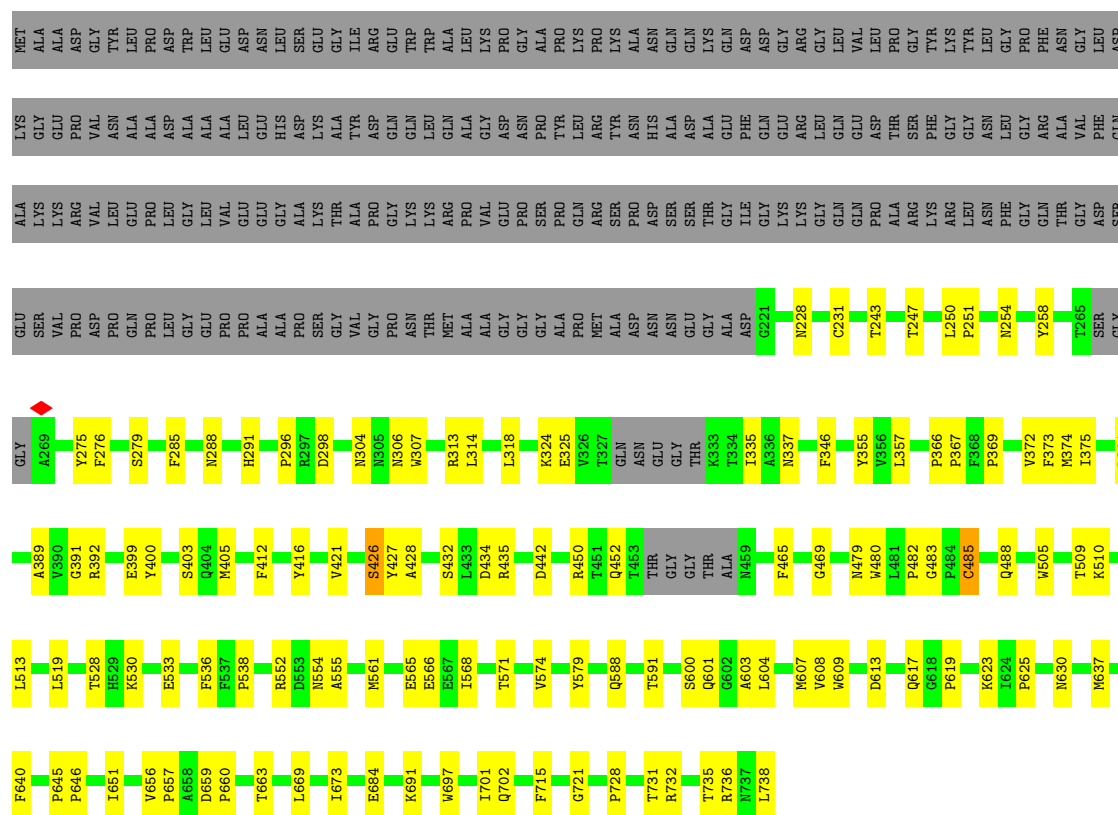
Chain M: 52% 16% 32%





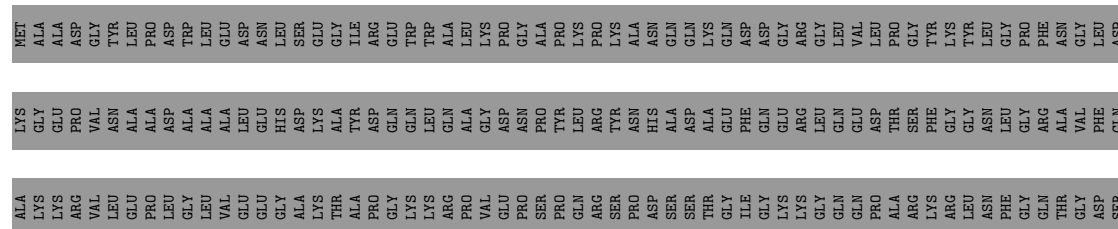
• Molecule 1: Capsid protein

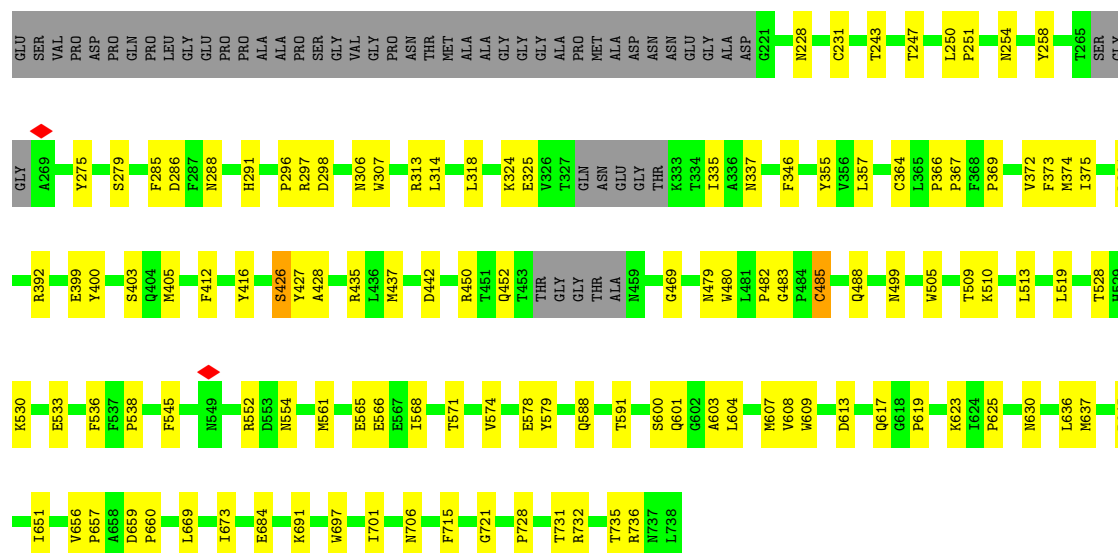
Chain Q: 52% 17% 32%



• Molecule 1: Capsid protein

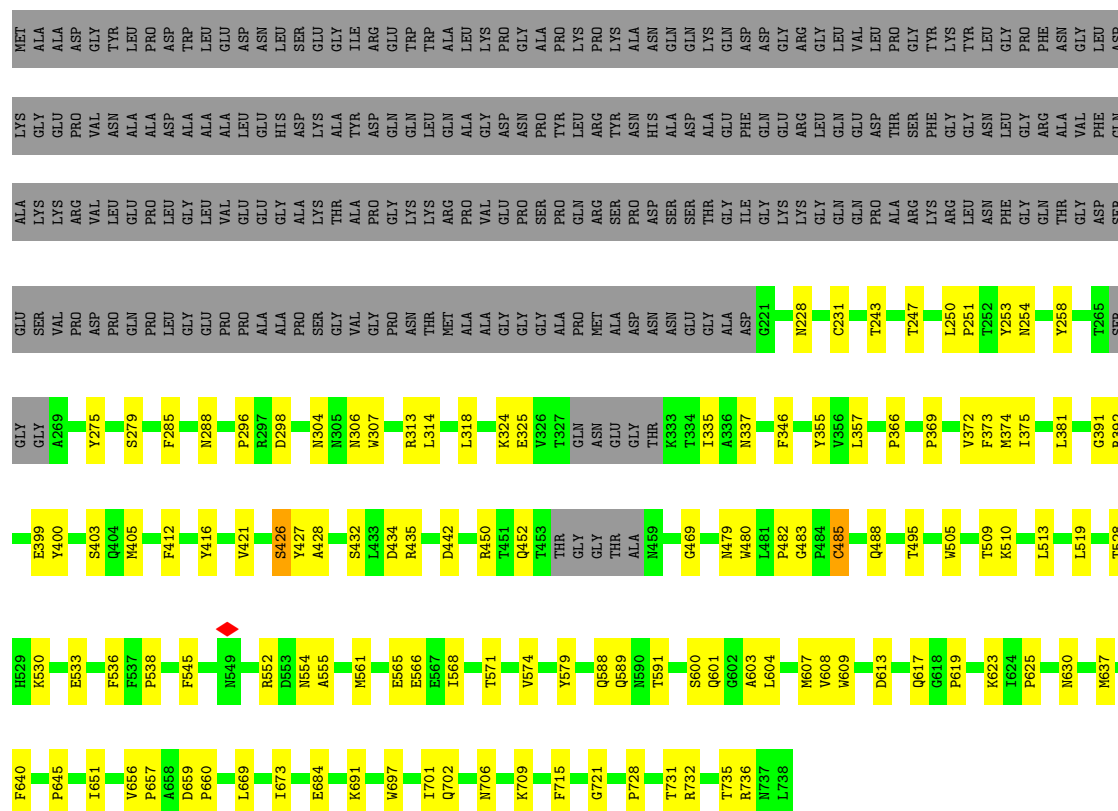
Chain U: 52% 16% 32%





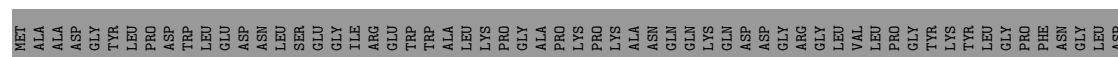
• Molecule 1: Capsid protein

Chain Y:



• Molecule 1: Capsid protein

Chain c:





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	235305	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 ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.266	Depositor
Minimum map value	-0.139	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	0.04	Depositor
Map size ($\text{\AA}$)	492.2, 492.2, 492.2	wwPDB
Map dimensions	460, 460, 460	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.07, 1.07, 1.07	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	0	0.28	0/4170	0.35	0/5686
1	1	0.28	0/4170	0.34	0/5686
1	2	0.28	0/4170	0.35	0/5686
1	3	0.28	0/4170	0.34	0/5686
1	4	0.28	0/4170	0.34	0/5686
1	5	0.28	0/4170	0.34	0/5686
1	6	0.28	0/4170	0.34	0/5686
1	7	0.28	0/4170	0.34	0/5686
1	A	0.28	0/4170	0.35	0/5686
1	B	0.28	0/4170	0.35	0/5686
1	C	0.28	0/4170	0.35	0/5686
1	D	0.28	0/4170	0.35	0/5686
1	E	0.28	0/4170	0.34	0/5686
1	F	0.28	0/4170	0.34	0/5686
1	G	0.28	0/4170	0.34	0/5686
1	H	0.28	0/4170	0.34	0/5686
1	I	0.28	0/4170	0.34	0/5686
1	J	0.28	0/4170	0.35	0/5686
1	K	0.28	0/4170	0.35	0/5686
1	L	0.28	0/4170	0.35	0/5686
1	M	0.28	0/4170	0.35	0/5686
1	N	0.28	0/4170	0.35	0/5686
1	O	0.28	0/4170	0.35	0/5686
1	P	0.28	0/4170	0.35	0/5686
1	Q	0.28	0/4170	0.35	0/5686
1	R	0.28	0/4170	0.35	0/5686
1	S	0.28	0/4170	0.35	0/5686
1	T	0.28	0/4170	0.35	0/5686
1	U	0.28	0/4170	0.35	0/5686
1	V	0.28	0/4170	0.35	0/5686
1	W	0.28	0/4170	0.35	0/5686
1	X	0.28	0/4170	0.35	0/5686
1	Y	0.28	0/4170	0.35	0/5686
1	Z	0.28	0/4170	0.34	0/5686

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.28	0/4170	0.34	0/5686
1	b	0.28	0/4170	0.34	0/5686
1	c	0.28	0/4170	0.34	0/5686
1	d	0.28	0/4170	0.34	0/5686
1	e	0.28	0/4170	0.34	0/5686
1	f	0.28	0/4170	0.34	0/5686
1	g	0.28	0/4170	0.34	0/5686
1	h	0.28	0/4170	0.34	0/5686
1	i	0.28	0/4170	0.35	0/5686
1	j	0.28	0/4170	0.35	0/5686
1	k	0.28	0/4170	0.35	0/5686
1	l	0.28	0/4170	0.35	0/5686
1	m	0.28	0/4170	0.35	0/5686
1	n	0.28	0/4170	0.35	0/5686
1	o	0.28	0/4170	0.35	0/5686
1	p	0.28	0/4170	0.35	0/5686
1	q	0.28	0/4170	0.35	0/5686
1	r	0.28	0/4170	0.35	0/5686
1	s	0.28	0/4170	0.35	0/5686
1	t	0.28	0/4170	0.35	0/5686
1	u	0.28	0/4170	0.35	0/5686
1	v	0.28	0/4170	0.35	0/5686
1	w	0.28	0/4170	0.35	0/5686
1	x	0.28	0/4170	0.35	0/5686
1	y	0.29	0/4170	0.36	0/5686
1	z	0.28	0/4170	0.35	0/5686
All	All	0.28	0/250200	0.35	0/341160

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	0	4050	0	3820	102	0
1	1	4050	0	3820	105	0
1	2	4050	0	3820	105	0
1	3	4050	0	3820	103	0
1	4	4050	0	3820	102	0
1	5	4050	0	3820	103	0
1	6	4050	0	3820	98	0
1	7	4050	0	3820	100	0
1	A	4050	0	3820	99	0
1	B	4050	0	3820	100	0
1	C	4050	0	3820	100	0
1	D	4050	0	3820	102	0
1	E	4050	0	3820	98	0
1	F	4050	0	3820	97	0
1	G	4050	0	3820	102	0
1	H	4050	0	3820	101	0
1	I	4050	0	3820	97	0
1	J	4050	0	3820	105	0
1	K	4050	0	3820	100	0
1	L	4050	0	3820	102	0
1	M	4050	0	3820	101	0
1	N	4050	0	3820	99	0
1	O	4050	0	3820	101	0
1	P	4050	0	3820	101	0
1	Q	4050	0	3820	102	0
1	R	4050	0	3820	101	0
1	S	4050	0	3820	99	0
1	T	4050	0	3820	98	0
1	U	4050	0	3820	100	0
1	V	4050	0	3820	98	0
1	W	4050	0	3820	107	0
1	X	4050	0	3820	105	0
1	Y	4050	0	3820	103	0
1	Z	4050	0	3820	100	0
1	a	4050	0	3820	103	0
1	b	4050	0	3820	100	0
1	c	4050	0	3820	104	0
1	d	4050	0	3820	95	0
1	e	4050	0	3820	101	0
1	f	4050	0	3820	96	0
1	g	4050	0	3820	106	0
1	h	4050	0	3820	104	0
1	i	4050	0	3820	98	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4050	0	3820	99	0
1	k	4050	0	3820	102	0
1	l	4050	0	3820	98	0
1	m	4050	0	3820	99	0
1	n	4050	0	3820	99	0
1	o	4050	0	3820	102	0
1	p	4050	0	3820	99	0
1	q	4050	0	3820	101	0
1	r	4050	0	3820	100	0
1	s	4050	0	3820	99	0
1	t	4050	0	3820	97	0
1	u	4050	0	3820	96	0
1	v	4050	0	3820	97	0
1	w	4050	0	3820	100	0
1	x	4050	0	3820	97	0
1	y	4050	0	3820	98	0
1	z	4050	0	3820	98	0
All	All	243000	0	229200	4679	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 10.

All (4679) 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:D:298:ASP:OD2	1:j:400:TYR:OH	1.98	0.82
1:W:400:TYR:OH	1:X:298:ASP:OD2	1.99	0.81
1:P:298:ASP:OD2	1:M:400:TYR:OH	1.99	0.81
1:2:298:ASP:OD2	1:K:400:TYR:OH	1.98	0.81
1:L:400:TYR:OH	1:Q:298:ASP:OD2	1.99	0.81
1:n:400:TYR:OH	1:F:298:ASP:OD2	1.99	0.80
1:V:400:TYR:OH	1:G:298:ASP:OD2	1.99	0.80
1:j:298:ASP:OD2	1:4:400:TYR:OH	2.00	0.80
1:p:298:ASP:OD2	1:l:400:TYR:OH	1.99	0.80
1:A:400:TYR:OH	1:6:298:ASP:OD2	2.00	0.79
1:y:400:TYR:OH	1:z:298:ASP:OD2	1.99	0.79
1:k:298:ASP:OD2	1:5:400:TYR:OH	2.00	0.79
1:m:400:TYR:OH	1:c:298:ASP:OD2	2.01	0.79
1:s:400:TYR:OH	1:Y:298:ASP:OD2	2.00	0.79
1:x:400:TYR:OH	1:e:298:ASP:OD2	1.99	0.79
1:k:400:TYR:OH	1:q:298:ASP:OD2	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:298:ASP:OD2	1:6:400:TYR:OH	2.00	0.79
1:B:298:ASP:OD2	1:0:400:TYR:OH	2.00	0.79
1:r:298:ASP:OD2	1:Y:400:TYR:OH	2.00	0.79
1:L:298:ASP:OD2	1:b:400:TYR:OH	2.00	0.79
1:M:298:ASP:OD2	1:c:400:TYR:OH	2.00	0.79
1:e:400:TYR:OH	1:t:298:ASP:OD2	2.01	0.79
1:f:400:TYR:OH	1:u:298:ASP:OD2	2.01	0.79
1:h:400:TYR:OH	1:w:298:ASP:OD2	2.01	0.79
1:G:400:TYR:OH	1:S:298:ASP:OD2	2.01	0.79
1:d:298:ASP:OD2	1:N:400:TYR:OH	1.99	0.79
1:F:400:TYR:OH	1:R:298:ASP:OD2	2.01	0.79
1:H:400:TYR:OH	1:T:298:ASP:OD2	2.01	0.79
1:d:400:TYR:OH	1:s:298:ASP:OD2	2.01	0.79
1:x:298:ASP:OD2	1:U:400:TYR:OH	2.01	0.78
1:I:400:TYR:OH	1:U:298:ASP:OD2	2.01	0.78
1:l:400:TYR:OH	1:C:298:ASP:OD2	2.01	0.78
1:3:298:ASP:OD2	1:o:400:TYR:OH	2.02	0.78
1:v:400:TYR:OH	1:V:298:ASP:OD2	2.02	0.78
1:0:298:ASP:OD2	1:R:400:TYR:OH	2.01	0.78
1:g:400:TYR:OH	1:v:298:ASP:OD2	2.01	0.78
1:K:298:ASP:OD2	1:a:400:TYR:OH	2.00	0.78
1:J:298:ASP:OD2	1:Z:400:TYR:OH	2.00	0.78
1:m:298:ASP:OD2	1:7:400:TYR:OH	2.00	0.78
1:A:298:ASP:OD2	1:E:400:TYR:OH	2.00	0.78
1:l:298:ASP:OD2	1:i:400:TYR:OH	2.02	0.77
1:h:298:ASP:OD2	1:J:400:TYR:OH	2.02	0.77
1:Z:298:ASP:OD2	1:O:400:TYR:OH	2.02	0.77
1:i:298:ASP:OD2	1:3:400:TYR:OH	2.00	0.77
1:a:298:ASP:OD2	1:T:400:TYR:OH	2.03	0.77
1:t:400:TYR:OH	1:I:298:ASP:OD2	2.03	0.77
1:C:400:TYR:OH	1:o:298:ASP:OD2	2.03	0.76
1:D:400:TYR:OH	1:f:298:ASP:OD2	2.03	0.76
1:q:400:TYR:OH	1:W:298:ASP:OD2	2.03	0.76
1:w:400:TYR:OH	1:O:298:ASP:OD2	2.03	0.76
1:y:298:ASP:OD2	1:Q:400:TYR:OH	2.03	0.76
1:z:400:TYR:OH	1:b:298:ASP:OD2	2.04	0.76
1:l:721:GLY:HA2	1:i:258:TYR:O	1.86	0.76
1:2:400:TYR:OH	1:H:298:ASP:OD2	2.03	0.76
1:5:298:ASP:OD2	1:X:400:TYR:OH	2.04	0.76
1:g:721:GLY:HA2	1:S:258:TYR:O	1.86	0.75
1:q:258:TYR:O	1:W:721:GLY:HA2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:298:ASP:OD2	1:S:400:TYR:OH	2.04	0.75
1:0:721:GLY:HA2	1:R:258:TYR:O	1.87	0.75
1:h:721:GLY:HA2	1:J:258:TYR:O	1.86	0.75
1:r:721:GLY:HA2	1:Y:258:TYR:O	1.87	0.75
1:7:721:GLY:HA2	1:P:258:TYR:O	1.87	0.75
1:r:400:TYR:OH	1:N:298:ASP:OD2	2.05	0.75
1:4:298:ASP:OD2	1:u:400:TYR:OH	2.03	0.75
1:s:258:TYR:O	1:Y:721:GLY:HA2	1.87	0.74
1:p:721:GLY:HA2	1:l:258:TYR:O	1.87	0.74
1:2:721:GLY:HA2	1:K:258:TYR:O	1.87	0.74
1:E:721:GLY:HA2	1:p:258:TYR:O	1.87	0.74
1:D:721:GLY:HA2	1:j:258:TYR:O	1.86	0.74
1:m:258:TYR:O	1:c:721:GLY:HA2	1.88	0.74
1:2:258:TYR:O	1:H:721:GLY:HA2	1.88	0.74
1:3:721:GLY:HA2	1:o:258:TYR:O	1.87	0.74
1:7:298:ASP:OD2	1:P:400:TYR:OH	2.06	0.74
1:B:721:GLY:HA2	1:0:258:TYR:O	1.87	0.74
1:x:258:TYR:O	1:e:721:GLY:HA2	1.88	0.74
1:t:258:TYR:O	1:I:721:GLY:HA2	1.87	0.74
1:Z:721:GLY:HA2	1:O:258:TYR:O	1.87	0.74
1:B:400:TYR:OH	1:n:298:ASP:OD2	2.05	0.74
1:y:258:TYR:O	1:z:721:GLY:HA2	1.88	0.74
1:P:721:GLY:HA2	1:M:258:TYR:O	1.87	0.73
1:1:258:TYR:O	1:C:721:GLY:HA2	1.89	0.73
1:y:721:GLY:HA2	1:Q:258:TYR:O	1.87	0.73
1:F:258:TYR:O	1:R:721:GLY:HA2	1.88	0.73
1:G:258:TYR:O	1:S:721:GLY:HA2	1.88	0.73
1:L:258:TYR:O	1:Q:721:GLY:HA2	1.89	0.73
1:I:258:TYR:O	1:U:721:GLY:HA2	1.89	0.73
1:D:258:TYR:O	1:f:721:GLY:HA2	1.88	0.73
1:j:721:GLY:HA2	1:4:258:TYR:O	1.89	0.73
1:f:258:TYR:O	1:u:721:GLY:HA2	1.89	0.73
1:5:721:GLY:HA2	1:X:258:TYR:O	1.88	0.73
1:E:298:ASP:OD2	1:p:400:TYR:OH	2.06	0.73
1:d:258:TYR:O	1:s:721:GLY:HA2	1.88	0.73
1:B:258:TYR:O	1:n:721:GLY:HA2	1.89	0.73
1:J:721:GLY:HA2	1:Z:258:TYR:O	1.89	0.73
1:A:258:TYR:O	1:6:721:GLY:HA2	1.87	0.72
1:k:258:TYR:O	1:q:721:GLY:HA2	1.89	0.72
1:k:721:GLY:HA2	1:5:258:TYR:O	1.89	0.72
1:z:258:TYR:O	1:b:721:GLY:HA2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:258:TYR:O	1:X:721:GLY:HA2	1.88	0.72
1:i:721:GLY:HA2	1:3:258:TYR:O	1.89	0.72
1:e:258:TYR:O	1:t:721:GLY:HA2	1.88	0.72
1:4:721:GLY:HA2	1:u:258:TYR:O	1.90	0.72
1:l:721:GLY:HA2	1:6:258:TYR:O	1.89	0.72
1:L:721:GLY:HA2	1:b:258:TYR:O	1.89	0.72
1:V:258:TYR:O	1:G:721:GLY:HA2	1.88	0.72
1:g:258:TYR:O	1:v:721:GLY:HA2	1.89	0.72
1:h:258:TYR:O	1:w:721:GLY:HA2	1.89	0.72
1:M:721:GLY:HA2	1:c:258:TYR:O	1.89	0.72
1:K:721:GLY:HA2	1:a:258:TYR:O	1.89	0.72
1:H:258:TYR:O	1:T:721:GLY:HA2	1.89	0.72
1:m:721:GLY:HA2	1:7:258:TYR:O	1.89	0.72
1:A:721:GLY:HA2	1:E:258:TYR:O	1.89	0.71
1:a:721:GLY:HA2	1:T:258:TYR:O	1.89	0.71
1:t:505:TRP:O	1:t:510:LYS:NZ	2.24	0.71
1:r:258:TYR:O	1:N:721:GLY:HA2	1.89	0.71
1:c:505:TRP:O	1:c:510:LYS:NZ	2.24	0.71
1:C:505:TRP:O	1:C:510:LYS:NZ	2.24	0.71
1:v:505:TRP:O	1:v:510:LYS:NZ	2.24	0.71
1:6:505:TRP:O	1:6:510:LYS:NZ	2.24	0.71
1:n:505:TRP:O	1:n:510:LYS:NZ	2.24	0.70
1:5:505:TRP:O	1:5:510:LYS:NZ	2.24	0.70
1:7:505:TRP:O	1:7:510:LYS:NZ	2.24	0.70
1:1:505:TRP:O	1:1:510:LYS:NZ	2.24	0.70
1:x:505:TRP:O	1:x:510:LYS:NZ	2.24	0.70
1:3:505:TRP:O	1:3:510:LYS:NZ	2.24	0.70
1:e:505:TRP:O	1:e:510:LYS:NZ	2.24	0.70
1:M:505:TRP:O	1:M:510:LYS:NZ	2.24	0.70
1:x:721:GLY:HA2	1:U:258:TYR:O	1.91	0.70
1:4:505:TRP:O	1:4:510:LYS:NZ	2.24	0.70
1:p:505:TRP:O	1:p:510:LYS:NZ	2.24	0.70
1:u:505:TRP:O	1:u:510:LYS:NZ	2.24	0.70
1:w:505:TRP:O	1:w:510:LYS:NZ	2.24	0.70
1:R:505:TRP:O	1:R:510:LYS:NZ	2.24	0.70
1:Y:505:TRP:O	1:Y:510:LYS:NZ	2.24	0.70
1:E:505:TRP:O	1:E:510:LYS:NZ	2.24	0.70
1:y:505:TRP:O	1:y:510:LYS:NZ	2.24	0.70
1:m:505:TRP:O	1:m:510:LYS:NZ	2.25	0.70
1:Z:505:TRP:O	1:Z:510:LYS:NZ	2.24	0.70
1:S:505:TRP:O	1:S:510:LYS:NZ	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:505:TRP:O	1:i:510:LYS:NZ	2.24	0.70
1:V:505:TRP:O	1:V:510:LYS:NZ	2.24	0.70
1:T:505:TRP:O	1:T:510:LYS:NZ	2.24	0.70
1:U:505:TRP:O	1:U:510:LYS:NZ	2.24	0.70
1:j:505:TRP:O	1:j:510:LYS:NZ	2.24	0.70
1:l:505:TRP:O	1:l:510:LYS:NZ	2.25	0.70
1:q:505:TRP:O	1:q:510:LYS:NZ	2.24	0.70
1:K:505:TRP:O	1:K:510:LYS:NZ	2.24	0.70
1:b:505:TRP:O	1:b:510:LYS:NZ	2.24	0.70
1:g:505:TRP:O	1:g:510:LYS:NZ	2.24	0.70
1:H:505:TRP:O	1:H:510:LYS:NZ	2.24	0.70
1:G:505:TRP:O	1:G:510:LYS:NZ	2.24	0.70
1:O:505:TRP:O	1:O:510:LYS:NZ	2.25	0.70
1:L:505:TRP:O	1:L:510:LYS:NZ	2.24	0.70
1:P:505:TRP:O	1:P:510:LYS:NZ	2.25	0.70
1:o:505:TRP:O	1:o:510:LYS:NZ	2.24	0.70
1:2:505:TRP:O	1:2:510:LYS:NZ	2.24	0.70
1:B:505:TRP:O	1:B:510:LYS:NZ	2.24	0.70
1:f:505:TRP:O	1:f:510:LYS:NZ	2.24	0.70
1:0:505:TRP:O	1:0:510:LYS:NZ	2.24	0.70
1:F:505:TRP:O	1:F:510:LYS:NZ	2.24	0.70
1:d:505:TRP:O	1:d:510:LYS:NZ	2.24	0.69
1:J:505:TRP:O	1:J:510:LYS:NZ	2.24	0.69
1:s:505:TRP:O	1:s:510:LYS:NZ	2.24	0.69
1:z:505:TRP:O	1:z:510:LYS:NZ	2.24	0.69
1:a:505:TRP:O	1:a:510:LYS:NZ	2.24	0.69
1:C:258:TYR:O	1:o:721:GLY:HA2	1.93	0.69
1:y:304:ASN:HD22	1:I:702:GLN:HE21	1.40	0.69
1:g:304:ASN:HD22	1:W:702:GLN:HE21	1.40	0.69
1:I:505:TRP:O	1:I:510:LYS:NZ	2.24	0.69
1:D:505:TRP:O	1:D:510:LYS:NZ	2.24	0.69
1:k:505:TRP:O	1:k:510:LYS:NZ	2.24	0.69
1:W:505:TRP:O	1:W:510:LYS:NZ	2.24	0.69
1:Q:505:TRP:O	1:Q:510:LYS:NZ	2.24	0.69
1:r:505:TRP:O	1:r:510:LYS:NZ	2.24	0.69
1:d:721:GLY:HA2	1:N:258:TYR:O	1.92	0.69
1:v:258:TYR:O	1:V:721:GLY:HA2	1.91	0.69
1:N:505:TRP:O	1:N:510:LYS:NZ	2.24	0.69
1:X:505:TRP:O	1:X:510:LYS:NZ	2.24	0.69
1:A:505:TRP:O	1:A:510:LYS:NZ	2.24	0.69
1:h:304:ASN:HD22	1:N:702:GLN:HE21	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:505:TRP:O	1:h:510:LYS:NZ	2.24	0.69
1:Z:304:ASN:HD22	1:G:702:GLN:HE21	1.41	0.69
1:1:304:ASN:HD22	1:n:702:GLN:HE21	1.41	0.69
1:d:372:VAL:HG11	1:N:657:PRO:HG3	1.75	0.68
1:n:258:TYR:O	1:F:721:GLY:HA2	1.92	0.68
1:w:258:TYR:O	1:O:721:GLY:HA2	1.93	0.68
1:y:702:GLN:HE21	1:I:304:ASN:HD22	1.41	0.68
1:2:372:VAL:HG11	1:K:657:PRO:HG3	1.75	0.68
1:E:304:ASN:HD22	1:f:702:GLN:HE21	1.42	0.68
1:O:304:ASN:HD22	1:V:702:GLN:HE21	1.41	0.68
1:g:702:GLN:HE21	1:W:304:ASN:HD22	1.39	0.68
1:C:405:MET:HG3	1:o:228:ASN:HA	1.76	0.68
1:B:304:ASN:HD22	1:6:702:GLN:HE21	1.42	0.68
1:y:657:PRO:HG3	1:z:372:VAL:HG11	1.76	0.68
1:n:657:PRO:HG3	1:F:372:VAL:HG11	1.76	0.67
1:p:702:GLN:HE21	1:q:304:ASN:HD22	1.42	0.67
1:P:702:GLN:HE21	1:Q:304:ASN:HD22	1.43	0.67
1:n:405:MET:HG3	1:F:228:ASN:HA	1.77	0.67
1:r:702:GLN:HE21	1:c:304:ASN:HD22	1.43	0.67
1:w:405:MET:HG3	1:O:228:ASN:HA	1.76	0.67
1:P:372:VAL:HG11	1:M:657:PRO:HG3	1.77	0.67
1:s:657:PRO:HG3	1:Y:372:VAL:HG11	1.77	0.67
1:3:702:GLN:HE21	1:e:304:ASN:HD22	1.42	0.67
1:D:304:ASN:HD22	1:o:702:GLN:HE21	1.42	0.67
1:f:405:MET:HG3	1:u:228:ASN:HA	1.77	0.67
1:G:405:MET:HG3	1:S:228:ASN:HA	1.77	0.67
1:x:657:PRO:HG3	1:e:372:VAL:HG11	1.77	0.67
1:x:702:GLN:HE21	1:Y:304:ASN:HD22	1.42	0.67
1:3:304:ASN:HD22	1:e:702:GLN:HE21	1.41	0.67
1:k:657:PRO:HG3	1:q:372:VAL:HG11	1.77	0.67
1:g:250:LEU:HB2	1:g:375:ILE:HD12	1.77	0.67
1:g:405:MET:HG3	1:v:228:ASN:HA	1.77	0.67
1:Z:702:GLN:HE21	1:G:304:ASN:HD22	1.42	0.67
1:d:405:MET:HG3	1:s:228:ASN:HA	1.77	0.67
1:W:250:LEU:HB2	1:W:375:ILE:HD12	1.77	0.67
1:1:250:LEU:HB2	1:1:375:ILE:HD12	1.77	0.67
1:D:372:VAL:HG11	1:j:657:PRO:HG3	1.75	0.67
1:n:250:LEU:HB2	1:n:375:ILE:HD12	1.77	0.67
1:h:702:GLN:HE21	1:N:304:ASN:HD22	1.42	0.67
1:V:657:PRO:HG3	1:G:372:VAL:HG11	1.77	0.67
1:L:250:LEU:HB2	1:L:375:ILE:HD12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:250:LEU:HB2	1:T:375:ILE:HD12	1.77	0.67
1:S:250:LEU:HB2	1:S:375:ILE:HD12	1.77	0.66
1:P:304:ASN:HD22	1:Q:702:GLN:HE21	1.42	0.66
1:U:250:LEU:HB2	1:U:375:ILE:HD12	1.77	0.66
1:d:228:ASN:HA	1:N:405:MET:HG3	1.77	0.66
1:p:372:VAL:HG11	1:l:657:PRO:HG3	1.77	0.66
1:6:250:LEU:HB2	1:6:375:ILE:HD12	1.77	0.66
1:M:250:LEU:HB2	1:M:375:ILE:HD12	1.77	0.66
1:3:250:LEU:HB2	1:3:375:ILE:HD12	1.77	0.66
1:j:250:LEU:HB2	1:j:375:ILE:HD12	1.77	0.66
1:t:250:LEU:HB2	1:t:375:ILE:HD12	1.77	0.66
1:p:250:LEU:HB2	1:p:375:ILE:HD12	1.77	0.66
1:q:250:LEU:HB2	1:q:375:ILE:HD12	1.77	0.66
1:v:405:MET:HG3	1:V:228:ASN:HA	1.77	0.66
1:h:250:LEU:HB2	1:h:375:ILE:HD12	1.77	0.66
1:N:250:LEU:HB2	1:N:375:ILE:HD12	1.77	0.66
1:K:250:LEU:HB2	1:K:375:ILE:HD12	1.77	0.66
1:a:250:LEU:HB2	1:a:375:ILE:HD12	1.77	0.66
1:a:702:GLN:HE21	1:X:304:ASN:HD22	1.43	0.66
1:X:250:LEU:HB2	1:X:375:ILE:HD12	1.77	0.66
1:B:250:LEU:HB2	1:B:375:ILE:HD12	1.77	0.66
1:e:250:LEU:HB2	1:e:375:ILE:HD12	1.77	0.66
1:r:372:VAL:HG11	1:Y:657:PRO:HG3	1.77	0.66
1:I:250:LEU:HB2	1:I:375:ILE:HD12	1.77	0.66
1:x:250:LEU:HB2	1:x:375:ILE:HD12	1.77	0.66
1:y:250:LEU:HB2	1:y:375:ILE:HD12	1.77	0.66
1:p:228:ASN:HA	1:l:405:MET:HG3	1.77	0.66
1:2:250:LEU:HB2	1:2:375:ILE:HD12	1.77	0.66
1:O:250:LEU:HB2	1:O:375:ILE:HD12	1.77	0.66
1:0:702:GLN:HE21	1:V:304:ASN:HD22	1.44	0.66
1:R:250:LEU:HB2	1:R:375:ILE:HD12	1.77	0.66
1:L:228:ASN:HA	1:b:405:MET:HG3	1.78	0.66
1:1:702:GLN:HE21	1:n:304:ASN:HD22	1.42	0.66
1:A:657:PRO:HG3	1:6:372:VAL:HG11	1.78	0.66
1:l:372:VAL:HG11	1:6:657:PRO:HG3	1.78	0.66
1:0:372:VAL:HG11	1:R:657:PRO:HG3	1.78	0.66
1:J:250:LEU:HB2	1:J:375:ILE:HD12	1.77	0.66
1:W:657:PRO:HG3	1:X:372:VAL:HG11	1.76	0.66
1:E:702:GLN:HE21	1:f:304:ASN:HD22	1.43	0.66
1:d:250:LEU:HB2	1:d:375:ILE:HD12	1.77	0.66
1:s:250:LEU:HB2	1:s:375:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:250:LEU:HB2	1:Y:375:ILE:HD12	1.77	0.66
1:e:405:MET:HG3	1:t:228:ASN:HA	1.77	0.66
1:r:250:LEU:HB2	1:r:375:ILE:HD12	1.77	0.66
1:J:228:ASN:HA	1:Z:405:MET:HG3	1.78	0.66
1:H:250:LEU:HB2	1:H:375:ILE:HD12	1.77	0.66
1:c:250:LEU:HB2	1:c:375:ILE:HD12	1.77	0.66
1:i:250:LEU:HB2	1:i:375:ILE:HD12	1.77	0.66
1:j:228:ASN:HA	1:4:405:MET:HG3	1.78	0.66
1:v:250:LEU:HB2	1:v:375:ILE:HD12	1.77	0.66
1:7:250:LEU:HB2	1:7:375:ILE:HD12	1.77	0.66
1:F:250:LEU:HB2	1:F:375:ILE:HD12	1.77	0.66
1:F:405:MET:HG3	1:R:228:ASN:HA	1.77	0.66
1:V:405:MET:HG3	1:G:228:ASN:HA	1.78	0.66
1:a:304:ASN:HD22	1:X:702:GLN:HE21	1.44	0.66
1:b:250:LEU:HB2	1:b:375:ILE:HD12	1.77	0.66
1:I:405:MET:HG3	1:U:228:ASN:HA	1.77	0.66
1:M:372:VAL:HG11	1:c:657:PRO:HG3	1.78	0.66
1:Q:250:LEU:HB2	1:Q:375:ILE:HD12	1.77	0.66
1:B:405:MET:HG3	1:n:228:ASN:HA	1.78	0.65
1:j:372:VAL:HG11	1:4:657:PRO:HG3	1.78	0.65
1:5:304:ASN:HD22	1:b:702:GLN:HE21	1.43	0.65
1:l:228:ASN:HA	1:6:405:MET:HG3	1.78	0.65
1:m:405:MET:HG3	1:c:228:ASN:HA	1.78	0.65
1:w:250:LEU:HB2	1:w:375:ILE:HD12	1.77	0.65
1:H:405:MET:HG3	1:T:228:ASN:HA	1.77	0.65
1:L:657:PRO:HG3	1:Q:372:VAL:HG11	1.77	0.65
1:i:372:VAL:HG11	1:3:657:PRO:HG3	1.78	0.65
1:x:228:ASN:HA	1:U:405:MET:HG3	1.77	0.65
1:5:250:LEU:HB2	1:5:375:ILE:HD12	1.77	0.65
1:l:250:LEU:HB2	1:l:375:ILE:HD12	1.77	0.65
1:m:250:LEU:HB2	1:m:375:ILE:HD12	1.77	0.65
1:7:304:ASN:HD22	1:H:702:GLN:HE21	1.42	0.65
1:P:250:LEU:HB2	1:P:375:ILE:HD12	1.77	0.65
1:M:228:ASN:HA	1:c:405:MET:HG3	1.78	0.65
1:1:405:MET:HG3	1:C:228:ASN:HA	1.77	0.65
1:h:405:MET:HG3	1:w:228:ASN:HA	1.77	0.65
1:m:228:ASN:HA	1:7:405:MET:HG3	1.78	0.65
1:m:372:VAL:HG11	1:7:657:PRO:HG3	1.78	0.65
1:B:702:GLN:HE21	1:6:304:ASN:HD22	1.43	0.65
1:u:250:LEU:HB2	1:u:375:ILE:HD12	1.77	0.65
1:m:657:PRO:HG3	1:c:372:VAL:HG11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:250:LEU:HB2	1:V:375:ILE:HD12	1.77	0.65
1:B:228:ASN:HA	1:O:405:MET:HG3	1.79	0.65
1:Z:372:VAL:HG11	1:O:657:PRO:HG3	1.79	0.65
1:P:228:ASN:HA	1:M:405:MET:HG3	1.77	0.65
1:A:250:LEU:HB2	1:A:375:ILE:HD12	1.77	0.65
1:t:313:ARG:HH11	1:t:313:ARG:HG3	1.62	0.65
1:4:702:GLN:HE21	1:z:304:ASN:HD22	1.43	0.65
1:k:228:ASN:HA	1:5:405:MET:HG3	1.78	0.65
1:k:250:LEU:HB2	1:k:375:ILE:HD12	1.77	0.65
1:O:250:LEU:HB2	1:O:375:ILE:HD12	1.77	0.65
1:L:405:MET:HG3	1:Q:228:ASN:HA	1.77	0.65
1:O:313:ARG:HH11	1:O:313:ARG:HG3	1.62	0.65
1:2:304:ASN:HD22	1:O:702:GLN:HE21	1.42	0.65
1:2:313:ARG:HH11	1:2:313:ARG:HG3	1.62	0.65
1:F:657:PRO:HG3	1:R:372:VAL:HG11	1.79	0.65
1:N:313:ARG:HH11	1:N:313:ARG:HG3	1.62	0.65
1:W:405:MET:HG3	1:X:228:ASN:HA	1.79	0.65
1:I:313:ARG:HH11	1:I:313:ARG:HG3	1.62	0.65
1:A:405:MET:HG3	1:6:228:ASN:HA	1.78	0.65
1:D:313:ARG:HG3	1:D:313:ARG:HH11	1.62	0.65
1:J:313:ARG:HH11	1:J:313:ARG:HG3	1.62	0.65
1:J:372:VAL:HG11	1:Z:657:PRO:HG3	1.78	0.65
1:G:313:ARG:HG3	1:G:313:ARG:HH11	1.62	0.65
1:K:313:ARG:HH11	1:K:313:ARG:HG3	1.62	0.65
1:A:313:ARG:HH11	1:A:313:ARG:HG3	1.62	0.65
1:C:250:LEU:HB2	1:C:375:ILE:HD12	1.77	0.65
1:x:304:ASN:HD22	1:Y:702:GLN:HE21	1.44	0.65
1:g:313:ARG:HG3	1:g:313:ARG:HH11	1.62	0.65
1:h:657:PRO:HG3	1:w:372:VAL:HG11	1.79	0.65
1:Y:313:ARG:HH11	1:Y:313:ARG:HG3	1.62	0.65
1:j:313:ARG:HG3	1:j:313:ARG:HH11	1.62	0.65
1:f:250:LEU:HB2	1:f:375:ILE:HD12	1.77	0.65
1:r:313:ARG:HG3	1:r:313:ARG:HH11	1.62	0.65
1:r:405:MET:HG3	1:N:228:ASN:HA	1.78	0.65
1:S:313:ARG:HH11	1:S:313:ARG:HG3	1.62	0.65
1:H:313:ARG:HH11	1:H:313:ARG:HG3	1.62	0.65
1:U:313:ARG:HH11	1:U:313:ARG:HG3	1.62	0.65
1:E:250:LEU:HB2	1:E:375:ILE:HD12	1.77	0.64
1:d:304:ASN:HD22	1:F:702:GLN:HE21	1.45	0.64
1:x:313:ARG:HH11	1:x:313:ARG:HG3	1.62	0.64
1:Z:313:ARG:HG3	1:Z:313:ARG:HH11	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:313:ARG:HH11	1:a:313:ARG:HG3	1.62	0.64
1:A:228:ASN:HA	1:E:405:MET:HG3	1.78	0.64
1:d:657:PRO:HG3	1:s:372:VAL:HG11	1.79	0.64
1:e:313:ARG:HH11	1:e:313:ARG:HG3	1.62	0.64
1:p:304:ASN:HD22	1:q:702:GLN:HE21	1.42	0.64
1:r:304:ASN:HD22	1:c:702:GLN:HE21	1.42	0.64
1:V:313:ARG:HH11	1:V:313:ARG:HG3	1.62	0.64
1:Z:250:LEU:HB2	1:Z:375:ILE:HD12	1.77	0.64
1:1:372:VAL:HG11	1:i:657:PRO:HG3	1.79	0.64
1:B:372:VAL:HG11	1:0:657:PRO:HG3	1.77	0.64
1:d:313:ARG:HH11	1:d:313:ARG:HG3	1.62	0.64
1:i:228:ASN:HA	1:3:405:MET:HG3	1.78	0.64
1:5:702:GLN:HE21	1:b:304:ASN:HD22	1.43	0.64
1:L:313:ARG:HG3	1:L:313:ARG:HH11	1.62	0.64
1:4:304:ASN:HD22	1:z:702:GLN:HE21	1.44	0.64
1:k:372:VAL:HG11	1:5:657:PRO:HG3	1.78	0.64
1:k:405:MET:HG3	1:q:228:ASN:HA	1.77	0.64
1:v:313:ARG:HH11	1:v:313:ARG:HG3	1.62	0.64
1:r:228:ASN:HA	1:Y:405:MET:HG3	1.79	0.64
1:H:657:PRO:HG3	1:T:372:VAL:HG11	1.79	0.64
1:T:313:ARG:HH11	1:T:313:ARG:HG3	1.62	0.64
1:D:405:MET:HG3	1:f:228:ASN:HA	1.79	0.64
1:y:405:MET:HG3	1:z:228:ASN:HA	1.79	0.64
1:G:250:LEU:HB2	1:G:375:ILE:HD12	1.77	0.64
1:O:313:ARG:HG3	1:O:313:ARG:HH11	1.62	0.64
1:L:372:VAL:HG11	1:b:657:PRO:HG3	1.78	0.64
1:c:313:ARG:HH11	1:c:313:ARG:HG3	1.62	0.64
1:D:250:LEU:HB2	1:D:375:ILE:HD12	1.77	0.64
1:D:702:GLN:HE21	1:o:304:ASN:HD22	1.45	0.64
1:o:313:ARG:HG3	1:o:313:ARG:HH11	1.62	0.64
1:4:228:ASN:HA	1:u:405:MET:HG3	1.80	0.64
1:u:313:ARG:HG3	1:u:313:ARG:HH11	1.62	0.64
1:7:313:ARG:HG3	1:7:313:ARG:HH11	1.62	0.64
1:G:657:PRO:HG3	1:S:372:VAL:HG11	1.79	0.64
1:1:657:PRO:HG3	1:C:372:VAL:HG11	1.79	0.64
1:o:250:LEU:HB2	1:o:375:ILE:HD12	1.77	0.64
1:4:313:ARG:HG3	1:4:313:ARG:HH11	1.62	0.64
1:f:313:ARG:HH11	1:f:313:ARG:HG3	1.62	0.64
1:z:250:LEU:HB2	1:z:375:ILE:HD12	1.77	0.64
1:5:313:ARG:HH11	1:5:313:ARG:HG3	1.62	0.64
1:K:372:VAL:HG11	1:a:657:PRO:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:313:ARG:HG3	1:b:313:ARG:HH11	1.62	0.64
1:A:372:VAL:HG11	1:E:657:PRO:HG3	1.78	0.64
1:e:657:PRO:HG3	1:t:372:VAL:HG11	1.79	0.64
1:4:250:LEU:HB2	1:4:375:ILE:HD12	1.77	0.64
1:m:313:ARG:HH11	1:m:313:ARG:HG3	1.62	0.64
1:B:313:ARG:HH11	1:B:313:ARG:HG3	1.62	0.64
1:g:657:PRO:HG3	1:v:372:VAL:HG11	1.79	0.64
1:2:702:GLN:HE21	1:O:304:ASN:HD22	1.45	0.64
1:x:405:MET:HG3	1:e:228:ASN:HA	1.78	0.64
1:y:372:VAL:HG11	1:Q:657:PRO:HG3	1.80	0.64
1:4:372:VAL:HG11	1:u:657:PRO:HG3	1.80	0.64
1:a:372:VAL:HG11	1:T:657:PRO:HG3	1.80	0.64
1:Q:313:ARG:HH11	1:Q:313:ARG:HG3	1.62	0.64
1:1:228:ASN:HA	1:i:405:MET:HG3	1.80	0.63
1:k:313:ARG:HH11	1:k:313:ARG:HG3	1.62	0.63
1:2:405:MET:HG3	1:H:228:ASN:HA	1.80	0.63
1:F:313:ARG:HH11	1:F:313:ARG:HG3	1.62	0.63
1:K:228:ASN:HA	1:a:405:MET:HG3	1.78	0.63
1:P:313:ARG:HH11	1:P:313:ARG:HG3	1.62	0.63
1:X:313:ARG:HH11	1:X:313:ARG:HG3	1.62	0.63
1:M:313:ARG:HH11	1:M:313:ARG:HG3	1.62	0.63
1:C:313:ARG:HH11	1:C:313:ARG:HG3	1.62	0.63
1:q:313:ARG:HH11	1:q:313:ARG:HG3	1.62	0.63
1:2:228:ASN:HA	1:K:405:MET:HG3	1.80	0.63
1:7:702:GLN:HE21	1:H:304:ASN:HD22	1.43	0.63
1:D:228:ASN:HA	1:j:405:MET:HG3	1.80	0.63
1:i:313:ARG:HH11	1:i:313:ARG:HG3	1.62	0.63
1:n:313:ARG:HH11	1:n:313:ARG:HG3	1.62	0.63
1:l:313:ARG:HH11	1:l:313:ARG:HG3	1.62	0.63
1:w:313:ARG:HH11	1:w:313:ARG:HG3	1.62	0.63
1:W:313:ARG:HG3	1:W:313:ARG:HH11	1.62	0.63
1:3:372:VAL:HG11	1:o:657:PRO:HG3	1.79	0.63
1:z:313:ARG:HG3	1:z:313:ARG:HH11	1.62	0.63
1:v:366:PRO:HG3	1:v:373:PHE:HB3	1.81	0.63
1:G:366:PRO:HG3	1:G:373:PHE:HB3	1.81	0.63
1:J:366:PRO:HG3	1:J:373:PHE:HB3	1.81	0.63
1:Z:228:ASN:HA	1:O:405:MET:HG3	1.80	0.63
1:P:366:PRO:HG3	1:P:373:PHE:HB3	1.81	0.63
1:s:366:PRO:HG3	1:s:373:PHE:HB3	1.81	0.63
1:3:313:ARG:HH11	1:3:313:ARG:HG3	1.62	0.63
1:p:313:ARG:HH11	1:p:313:ARG:HG3	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:228:ASN:HA	1:X:405:MET:HG3	1.79	0.63
1:q:366:PRO:HG3	1:q:373:PHE:HB3	1.81	0.63
1:q:657:PRO:HG3	1:W:372:VAL:HG11	1.81	0.63
1:h:313:ARG:HH11	1:h:313:ARG:HG3	1.62	0.63
1:S:366:PRO:HG3	1:S:373:PHE:HB3	1.81	0.63
1:a:228:ASN:HA	1:T:405:MET:HG3	1.80	0.63
1:b:366:PRO:HG3	1:b:373:PHE:HB3	1.81	0.63
1:Q:366:PRO:HG3	1:Q:373:PHE:HB3	1.81	0.63
1:1:313:ARG:HH11	1:1:313:ARG:HG3	1.62	0.63
1:E:313:ARG:HH11	1:E:313:ARG:HG3	1.62	0.63
1:x:372:VAL:HG11	1:U:657:PRO:HG3	1.79	0.63
1:6:366:PRO:HG3	1:6:373:PHE:HB3	1.81	0.63
1:D:657:PRO:HG3	1:f:372:VAL:HG11	1.81	0.63
1:E:228:ASN:HA	1:p:405:MET:HG3	1.81	0.63
1:d:702:GLN:HE21	1:F:304:ASN:HD22	1.45	0.63
1:y:313:ARG:HH11	1:y:313:ARG:HG3	1.62	0.63
1:v:657:PRO:HG3	1:V:372:VAL:HG11	1.80	0.63
1:h:366:PRO:HG3	1:h:373:PHE:HB3	1.81	0.63
1:2:366:PRO:HG3	1:2:373:PHE:HB3	1.81	0.63
1:R:313:ARG:HG3	1:R:313:ARG:HH11	1.62	0.63
1:I:657:PRO:HG3	1:U:372:VAL:HG11	1.79	0.63
1:n:366:PRO:HG3	1:n:373:PHE:HB3	1.81	0.63
1:s:313:ARG:HH11	1:s:313:ARG:HG3	1.62	0.63
1:u:366:PRO:HG3	1:u:373:PHE:HB3	1.81	0.63
1:i:366:PRO:HG3	1:i:373:PHE:HB3	1.81	0.62
1:y:228:ASN:HA	1:Q:405:MET:HG3	1.80	0.62
1:f:366:PRO:HG3	1:f:373:PHE:HB3	1.81	0.62
1:f:657:PRO:HG3	1:u:372:VAL:HG11	1.79	0.62
1:k:366:PRO:HG3	1:k:373:PHE:HB3	1.81	0.62
1:6:313:ARG:HH11	1:6:313:ARG:HG3	1.62	0.62
1:h:372:VAL:HG11	1:J:657:PRO:HG3	1.80	0.62
1:Z:366:PRO:HG3	1:Z:373:PHE:HB3	1.81	0.62
1:A:366:PRO:HG3	1:A:373:PHE:HB3	1.81	0.62
1:m:366:PRO:HG3	1:m:373:PHE:HB3	1.81	0.62
1:W:366:PRO:HG3	1:W:373:PHE:HB3	1.81	0.62
1:H:366:PRO:HG3	1:H:373:PHE:HB3	1.81	0.62
1:U:366:PRO:HG3	1:U:373:PHE:HB3	1.81	0.62
1:D:366:PRO:HG3	1:D:373:PHE:HB3	1.81	0.62
1:d:366:PRO:HG3	1:d:373:PHE:HB3	1.81	0.62
1:N:366:PRO:HG3	1:N:373:PHE:HB3	1.81	0.62
1:O:366:PRO:HG3	1:O:373:PHE:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:366:PRO:HG3	1:L:373:PHE:HB3	1.81	0.62
1:C:366:PRO:HG3	1:C:373:PHE:HB3	1.81	0.62
1:g:366:PRO:HG3	1:g:373:PHE:HB3	1.81	0.62
1:q:405:MET:HG3	1:W:228:ASN:HA	1.80	0.62
1:F:366:PRO:HG3	1:F:373:PHE:HB3	1.81	0.62
1:a:366:PRO:HG3	1:a:373:PHE:HB3	1.81	0.62
1:s:405:MET:HG3	1:Y:228:ASN:HA	1.82	0.62
1:t:366:PRO:HG3	1:t:373:PHE:HB3	1.81	0.62
1:R:366:PRO:HG3	1:R:373:PHE:HB3	1.81	0.62
1:B:366:PRO:HG3	1:B:373:PHE:HB3	1.81	0.62
1:g:228:ASN:HA	1:S:405:MET:HG3	1.81	0.62
1:h:228:ASN:HA	1:J:405:MET:HG3	1.80	0.62
1:w:657:PRO:HG3	1:O:372:VAL:HG11	1.81	0.62
1:l:306:ASN:O	1:l:426:SER:OG	2.18	0.62
1:E:366:PRO:HG3	1:E:373:PHE:HB3	1.81	0.62
1:n:306:ASN:O	1:n:426:SER:OG	2.18	0.62
1:y:600:SER:OG	1:4:601:GLN:OE1	2.18	0.62
1:g:601:GLN:OE1	1:q:600:SER:OG	2.18	0.62
1:G:306:ASN:O	1:G:426:SER:OG	2.18	0.62
1:T:366:PRO:HG3	1:T:373:PHE:HB3	1.81	0.62
1:X:366:PRO:HG3	1:X:373:PHE:HB3	1.81	0.62
1:X:600:SER:OG	1:b:601:GLN:OE1	2.18	0.62
1:C:657:PRO:HG3	1:o:372:VAL:HG11	1.81	0.62
1:i:306:ASN:O	1:i:426:SER:OG	2.18	0.62
1:3:366:PRO:HG3	1:3:373:PHE:HB3	1.81	0.62
1:p:366:PRO:HG3	1:p:373:PHE:HB3	1.81	0.62
1:5:366:PRO:HG3	1:5:373:PHE:HB3	1.81	0.62
1:l:366:PRO:HG3	1:l:373:PHE:HB3	1.81	0.62
1:0:366:PRO:HG3	1:0:373:PHE:HB3	1.81	0.62
1:r:306:ASN:O	1:r:426:SER:OG	2.18	0.62
1:X:306:ASN:O	1:X:426:SER:OG	2.18	0.62
1:M:306:ASN:O	1:M:426:SER:OG	2.18	0.62
1:B:306:ASN:O	1:B:426:SER:OG	2.18	0.62
1:s:306:ASN:O	1:s:426:SER:OG	2.18	0.62
1:3:228:ASN:HA	1:o:405:MET:HG3	1.80	0.62
1:y:306:ASN:O	1:y:426:SER:OG	2.18	0.62
1:k:306:ASN:O	1:k:426:SER:OG	2.18	0.62
1:h:306:ASN:O	1:h:426:SER:OG	2.18	0.62
1:2:306:ASN:O	1:2:426:SER:OG	2.18	0.62
1:2:657:PRO:HG3	1:H:372:VAL:HG11	1.81	0.62
1:K:366:PRO:HG3	1:K:373:PHE:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:601:GLN:OE1	1:c:600:SER:OG	2.18	0.62
1:d:306:ASN:O	1:d:426:SER:OG	2.18	0.62
1:x:366:PRO:HG3	1:x:373:PHE:HB3	1.81	0.62
1:e:366:PRO:HG3	1:e:373:PHE:HB3	1.81	0.62
1:t:306:ASN:O	1:t:426:SER:OG	2.18	0.62
1:z:405:MET:HG3	1:b:228:ASN:HA	1.80	0.62
1:z:657:PRO:HG3	1:b:372:VAL:HG11	1.81	0.62
1:g:306:ASN:O	1:g:426:SER:OG	2.18	0.62
1:q:306:ASN:O	1:q:426:SER:OG	2.18	0.62
1:w:306:ASN:O	1:w:426:SER:OG	2.18	0.62
1:K:306:ASN:O	1:K:426:SER:OG	2.18	0.62
1:K:600:SER:OG	1:O:601:GLN:OE1	2.18	0.62
1:M:600:SER:OG	1:Q:601:GLN:OE1	2.18	0.62
1:U:306:ASN:O	1:U:426:SER:OG	2.18	0.62
1:E:306:ASN:O	1:E:426:SER:OG	2.18	0.61
1:d:601:GLN:OE1	1:n:600:SER:OG	2.18	0.61
1:s:601:GLN:OE1	1:3:600:SER:OG	2.18	0.61
1:f:306:ASN:O	1:f:426:SER:OG	2.18	0.61
1:z:306:ASN:O	1:z:426:SER:OG	2.18	0.61
1:v:306:ASN:O	1:v:426:SER:OG	2.18	0.61
1:7:228:ASN:HA	1:P:405:MET:HG3	1.81	0.61
1:N:306:ASN:O	1:N:426:SER:OG	2.18	0.61
1:d:600:SER:OG	1:i:601:GLN:OE1	2.19	0.61
1:e:306:ASN:O	1:e:426:SER:OG	2.18	0.61
1:t:601:GLN:OE1	1:4:600:SER:OG	2.18	0.61
1:5:372:VAL:HG11	1:X:657:PRO:HG3	1.82	0.61
1:l:600:SER:OG	1:q:601:GLN:OE1	2.18	0.61
1:v:601:GLN:OE1	1:6:600:SER:OG	2.18	0.61
1:m:306:ASN:O	1:m:426:SER:OG	2.18	0.61
1:F:601:GLN:OE1	1:N:600:SER:OG	2.18	0.61
1:W:306:ASN:O	1:W:426:SER:OG	2.18	0.61
1:1:366:PRO:HG3	1:1:373:PHE:HB3	1.81	0.61
1:6:306:ASN:O	1:6:426:SER:OG	2.18	0.61
1:G:601:GLN:OE1	1:O:600:SER:OG	2.18	0.61
1:y:366:PRO:HG3	1:y:373:PHE:HB3	1.81	0.61
1:4:306:ASN:O	1:4:426:SER:OG	2.18	0.61
1:4:366:PRO:HG3	1:4:373:PHE:HB3	1.81	0.61
1:z:366:PRO:HG3	1:z:373:PHE:HB3	1.81	0.61
1:l:306:ASN:O	1:l:426:SER:OG	2.18	0.61
1:w:366:PRO:HG3	1:w:373:PHE:HB3	1.81	0.61
1:J:306:ASN:O	1:J:426:SER:OG	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:366:PRO:HG3	1:I:373:PHE:HB3	1.81	0.61
1:M:366:PRO:HG3	1:M:373:PHE:HB3	1.81	0.61
1:A:306:ASN:O	1:A:426:SER:OG	2.18	0.61
1:j:306:ASN:O	1:j:426:SER:OG	2.18	0.61
1:j:366:PRO:HG3	1:j:373:PHE:HB3	1.81	0.61
1:u:306:ASN:O	1:u:426:SER:OG	2.18	0.61
1:r:366:PRO:HG3	1:r:373:PHE:HB3	1.81	0.61
1:S:306:ASN:O	1:S:426:SER:OG	2.18	0.61
1:I:601:GLN:OE1	1:Q:600:SER:OG	2.18	0.61
1:Y:306:ASN:O	1:Y:426:SER:OG	2.18	0.61
1:1:601:GLN:OE1	1:B:600:SER:OG	2.18	0.61
1:C:306:ASN:O	1:C:426:SER:OG	2.18	0.61
1:i:600:SER:OG	1:n:601:GLN:OE1	2.18	0.61
1:t:405:MET:HG3	1:I:228:ASN:HA	1.82	0.61
1:t:657:PRO:HG3	1:I:372:VAL:HG11	1.81	0.61
1:f:600:SER:OG	1:k:601:GLN:OE1	2.19	0.61
1:7:306:ASN:O	1:7:426:SER:OG	2.18	0.61
1:V:306:ASN:O	1:V:426:SER:OG	2.18	0.61
1:H:306:ASN:O	1:H:426:SER:OG	2.18	0.61
1:L:600:SER:OG	1:P:601:GLN:OE1	2.18	0.61
1:D:600:SER:OG	1:E:601:GLN:OE1	2.18	0.61
1:o:366:PRO:HG3	1:o:373:PHE:HB3	1.81	0.61
1:p:306:ASN:O	1:p:426:SER:OG	2.18	0.61
1:z:600:SER:OG	1:5:601:GLN:OE1	2.18	0.61
1:R:601:GLN:OE1	1:Z:600:SER:OG	2.18	0.61
1:S:601:GLN:OE1	1:a:600:SER:OG	2.18	0.61
1:H:601:GLN:OE1	1:P:600:SER:OG	2.18	0.61
1:C:601:GLN:OE1	1:E:600:SER:OG	2.18	0.61
1:h:601:GLN:OE1	1:r:600:SER:OG	2.18	0.61
1:7:366:PRO:HG3	1:7:373:PHE:HB3	1.81	0.61
1:Z:306:ASN:O	1:Z:426:SER:OG	2.18	0.61
1:Y:366:PRO:HG3	1:Y:373:PHE:HB3	1.81	0.61
1:Y:600:SER:OG	1:c:601:GLN:OE1	2.18	0.61
1:o:306:ASN:O	1:o:426:SER:OG	2.18	0.61
1:5:306:ASN:O	1:5:426:SER:OG	2.18	0.61
1:g:372:VAL:HG11	1:S:657:PRO:HG3	1.82	0.61
1:h:483:GLY:HA3	1:h:609:TRP:HB3	1.83	0.61
1:x:483:GLY:HA3	1:x:609:TRP:HB3	1.83	0.61
1:e:601:GLN:OE1	1:o:600:SER:OG	2.18	0.61
1:t:600:SER:OG	1:y:601:GLN:OE1	2.19	0.61
1:k:483:GLY:HA3	1:k:609:TRP:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:600:SER:OG	1:r:601:GLN:OE1	2.18	0.61
1:r:657:PRO:HG3	1:N:372:VAL:HG11	1.83	0.61
1:R:483:GLY:HA3	1:R:609:TRP:HB3	1.83	0.61
1:V:600:SER:OG	1:Z:601:GLN:OE1	2.18	0.61
1:T:601:GLN:OE1	1:b:600:SER:OG	2.18	0.61
1:I:483:GLY:HA3	1:I:609:TRP:HB3	1.83	0.61
1:D:306:ASN:O	1:D:426:SER:OG	2.18	0.60
1:3:306:ASN:O	1:3:426:SER:OG	2.18	0.60
1:e:483:GLY:HA3	1:e:609:TRP:HB3	1.83	0.60
1:u:601:GLN:OE1	1:5:600:SER:OG	2.18	0.60
1:2:600:SER:OG	1:7:601:GLN:OE1	2.18	0.60
1:F:306:ASN:O	1:F:426:SER:OG	2.18	0.60
1:F:483:GLY:HA3	1:F:609:TRP:HB3	1.83	0.60
1:F:600:SER:OG	1:J:601:GLN:OE1	2.19	0.60
1:V:483:GLY:HA3	1:V:609:TRP:HB3	1.83	0.60
1:S:483:GLY:HA3	1:S:609:TRP:HB3	1.83	0.60
1:H:483:GLY:HA3	1:H:609:TRP:HB3	1.83	0.60
1:P:306:ASN:O	1:P:426:SER:OG	2.18	0.60
1:I:306:ASN:O	1:I:426:SER:OG	2.18	0.60
1:Q:306:ASN:O	1:Q:426:SER:OG	2.18	0.60
1:U:600:SER:OG	1:Y:601:GLN:OE1	2.19	0.60
1:j:483:GLY:HA3	1:j:609:TRP:HB3	1.83	0.60
1:t:483:GLY:HA3	1:t:609:TRP:HB3	1.83	0.60
1:u:600:SER:OG	1:z:601:GLN:OE1	2.19	0.60
1:g:483:GLY:HA3	1:g:609:TRP:HB3	1.83	0.60
1:0:306:ASN:O	1:0:426:SER:OG	2.18	0.60
1:7:372:VAL:HG11	1:P:657:PRO:HG3	1.83	0.60
1:G:600:SER:OG	1:K:601:GLN:OE1	2.19	0.60
1:a:306:ASN:O	1:a:426:SER:OG	2.18	0.60
1:c:306:ASN:O	1:c:426:SER:OG	2.18	0.60
1:A:600:SER:OG	1:B:601:GLN:OE1	2.18	0.60
1:3:483:GLY:HA3	1:3:609:TRP:HB3	1.83	0.60
1:0:600:SER:OG	1:6:601:GLN:OE1	2.18	0.60
1:R:306:ASN:O	1:R:426:SER:OG	2.18	0.60
1:O:306:ASN:O	1:O:426:SER:OG	2.18	0.60
1:S:600:SER:OG	1:W:601:GLN:OE1	2.19	0.60
1:W:600:SER:OG	1:a:601:GLN:OE1	2.18	0.60
1:L:306:ASN:O	1:L:426:SER:OG	2.18	0.60
1:b:306:ASN:O	1:b:426:SER:OG	2.18	0.60
1:C:483:GLY:HA3	1:C:609:TRP:HB3	1.83	0.60
1:i:483:GLY:HA3	1:i:609:TRP:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:600:SER:OG	1:x:601:GLN:OE1	2.19	0.60
1:x:306:ASN:O	1:x:426:SER:OG	2.18	0.60
1:j:600:SER:OG	1:o:601:GLN:OE1	2.18	0.60
1:z:483:GLY:HA3	1:z:609:TRP:HB3	1.83	0.60
1:m:483:GLY:HA3	1:m:609:TRP:HB3	1.83	0.60
1:J:600:SER:OG	1:N:601:GLN:OE1	2.18	0.60
1:C:600:SER:OG	1:D:601:GLN:OE1	2.19	0.60
1:D:483:GLY:HA3	1:D:609:TRP:HB3	1.83	0.60
1:r:483:GLY:HA3	1:r:609:TRP:HB3	1.83	0.60
1:V:366:PRO:HG3	1:V:373:PHE:HB3	1.81	0.60
1:T:306:ASN:O	1:T:426:SER:OG	2.18	0.60
1:A:258:TYR:OH	1:A:399:GLU:OE1	2.18	0.60
1:C:251:PRO:HG3	1:C:374:MET:HE3	1.84	0.60
1:q:483:GLY:HA3	1:q:609:TRP:HB3	1.83	0.60
1:O:228:ASN:HA	1:R:405:MET:HG3	1.83	0.60
1:r:251:PRO:HG3	1:r:374:MET:HE3	1.84	0.60
1:w:600:SER:OG	1:2:601:GLN:OE1	2.19	0.60
1:P:483:GLY:HA3	1:P:609:TRP:HB3	1.83	0.60
1:c:483:GLY:HA3	1:c:609:TRP:HB3	1.83	0.60
1:E:372:VAL:HG11	1:p:657:PRO:HG3	1.83	0.60
1:y:483:GLY:HA3	1:y:609:TRP:HB3	1.83	0.60
1:f:601:GLN:OE1	1:p:600:SER:OG	2.18	0.60
1:k:600:SER:OG	1:p:601:GLN:OE1	2.18	0.60
1:c:366:PRO:HG3	1:c:373:PHE:HB3	1.81	0.60
1:E:483:GLY:HA3	1:E:609:TRP:HB3	1.83	0.60
1:d:483:GLY:HA3	1:d:609:TRP:HB3	1.83	0.60
1:s:483:GLY:HA3	1:s:609:TRP:HB3	1.83	0.60
1:x:600:SER:OG	1:3:601:GLN:OE1	2.18	0.60
1:W:483:GLY:HA3	1:W:609:TRP:HB3	1.83	0.60
1:y:251:PRO:HG3	1:y:374:MET:HE3	1.84	0.60
1:w:601:GLN:OE1	1:7:600:SER:OG	2.18	0.60
1:F:251:PRO:HG3	1:F:374:MET:HE3	1.84	0.60
1:N:483:GLY:HA3	1:N:609:TRP:HB3	1.83	0.60
1:K:483:GLY:HA3	1:K:609:TRP:HB3	1.83	0.60
1:p:251:PRO:HG3	1:p:374:MET:HE3	1.84	0.60
1:u:251:PRO:HG3	1:u:374:MET:HE3	1.84	0.60
1:u:483:GLY:HA3	1:u:609:TRP:HB3	1.83	0.60
1:2:251:PRO:HG3	1:2:374:MET:HE3	1.84	0.60
1:R:600:SER:OG	1:V:601:GLN:OE1	2.19	0.60
1:Z:251:PRO:HG3	1:Z:374:MET:HE3	1.84	0.60
1:L:483:GLY:HA3	1:L:609:TRP:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:483:GLY:HA3	1:b:609:TRP:HB3	1.83	0.60
1:B:657:PRO:HG3	1:n:372:VAL:HG11	1.83	0.59
1:6:483:GLY:HA3	1:6:609:TRP:HB3	1.83	0.59
1:7:483:GLY:HA3	1:7:609:TRP:HB3	1.83	0.59
1:b:251:PRO:HG3	1:b:374:MET:HE3	1.84	0.59
1:I:251:PRO:HG3	1:I:374:MET:HE3	1.84	0.59
1:1:251:PRO:HG3	1:1:374:MET:HE3	1.84	0.59
1:D:251:PRO:HG3	1:D:374:MET:HE3	1.84	0.59
1:i:251:PRO:HG3	1:i:374:MET:HE3	1.84	0.59
1:x:251:PRO:HG3	1:x:374:MET:HE3	1.84	0.59
1:o:483:GLY:HA3	1:o:609:TRP:HB3	1.83	0.59
1:z:251:PRO:HG3	1:z:374:MET:HE3	1.84	0.59
1:K:251:PRO:HG3	1:K:374:MET:HE3	1.84	0.59
1:M:251:PRO:HG3	1:M:374:MET:HE3	1.84	0.59
1:Q:483:GLY:HA3	1:Q:609:TRP:HB3	1.83	0.59
1:1:600:SER:OG	1:A:601:GLN:OE1	2.19	0.59
1:A:483:GLY:HA3	1:A:609:TRP:HB3	1.83	0.59
1:4:483:GLY:HA3	1:4:609:TRP:HB3	1.83	0.59
1:f:483:GLY:HA3	1:f:609:TRP:HB3	1.83	0.59
1:k:251:PRO:HG3	1:k:374:MET:HE3	1.84	0.59
1:m:251:PRO:HG3	1:m:374:MET:HE3	1.84	0.59
1:T:600:SER:OG	1:X:601:GLN:OE1	2.19	0.59
1:4:251:PRO:HG3	1:4:374:MET:HE3	1.84	0.59
1:h:258:TYR:OH	1:h:399:GLU:OE1	2.18	0.59
1:h:600:SER:OG	1:m:601:GLN:OE1	2.19	0.59
1:G:483:GLY:HA3	1:G:609:TRP:HB3	1.83	0.59
1:L:251:PRO:HG3	1:L:374:MET:HE3	1.84	0.59
1:X:251:PRO:HG3	1:X:374:MET:HE3	1.84	0.59
1:c:251:PRO:HG3	1:c:374:MET:HE3	1.84	0.59
1:5:483:GLY:HA3	1:5:609:TRP:HB3	1.83	0.59
1:v:483:GLY:HA3	1:v:609:TRP:HB3	1.83	0.59
1:0:483:GLY:HA3	1:0:609:TRP:HB3	1.83	0.59
1:6:251:PRO:HG3	1:6:374:MET:HE3	1.84	0.59
1:Z:483:GLY:HA3	1:Z:609:TRP:HB3	1.83	0.59
1:I:600:SER:OG	1:M:601:GLN:OE1	2.19	0.59
1:B:251:PRO:HG3	1:B:374:MET:HE3	1.84	0.59
1:E:251:PRO:HG3	1:E:374:MET:HE3	1.84	0.59
1:d:258:TYR:OH	1:d:399:GLU:OE1	2.18	0.59
1:o:251:PRO:HG3	1:o:374:MET:HE3	1.84	0.59
1:t:251:PRO:HG3	1:t:374:MET:HE3	1.84	0.59
1:g:600:SER:OG	1:l:601:GLN:OE1	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:251:PRO:HG3	1:w:374:MET:HE3	1.84	0.59
1:N:251:PRO:HG3	1:N:374:MET:HE3	1.84	0.59
1:S:251:PRO:HG3	1:S:374:MET:HE3	1.84	0.59
1:W:251:PRO:HG3	1:W:374:MET:HE3	1.84	0.59
1:a:251:PRO:HG3	1:a:374:MET:HE3	1.84	0.59
1:Q:251:PRO:HG3	1:Q:374:MET:HE3	1.84	0.59
1:1:483:GLY:HA3	1:1:609:TRP:HB3	1.83	0.59
1:A:251:PRO:HG3	1:A:374:MET:HE3	1.84	0.59
1:B:483:GLY:HA3	1:B:609:TRP:HB3	1.83	0.59
1:s:251:PRO:HG3	1:s:374:MET:HE3	1.84	0.59
1:j:251:PRO:HG3	1:j:374:MET:HE3	1.84	0.59
1:q:251:PRO:HG3	1:q:374:MET:HE3	1.84	0.59
1:2:483:GLY:HA3	1:2:609:TRP:HB3	1.83	0.59
1:J:483:GLY:HA3	1:J:609:TRP:HB3	1.83	0.59
1:R:251:PRO:HG3	1:R:374:MET:HE3	1.84	0.59
1:M:483:GLY:HA3	1:M:609:TRP:HB3	1.83	0.59
1:U:483:GLY:HA3	1:U:609:TRP:HB3	1.83	0.59
1:Y:483:GLY:HA3	1:Y:609:TRP:HB3	1.83	0.59
1:n:251:PRO:HG3	1:n:374:MET:HE3	1.84	0.59
1:n:483:GLY:HA3	1:n:609:TRP:HB3	1.83	0.59
1:5:251:PRO:HG3	1:5:374:MET:HE3	1.84	0.59
1:O:258:TYR:OH	1:O:399:GLU:OE1	2.18	0.59
1:G:251:PRO:HG3	1:G:374:MET:HE3	1.84	0.59
1:O:251:PRO:HG3	1:O:374:MET:HE3	1.84	0.59
1:O:483:GLY:HA3	1:O:609:TRP:HB3	1.83	0.59
1:B:656:VAL:HG11	1:n:324:LYS:HE3	1.85	0.59
1:E:324:LYS:HE3	1:p:656:VAL:HG11	1.85	0.59
1:3:251:PRO:HG3	1:3:374:MET:HE3	1.84	0.59
1:e:600:SER:OG	1:j:601:GLN:OE1	2.19	0.59
1:l:251:PRO:HG3	1:l:374:MET:HE3	1.84	0.59
1:7:251:PRO:HG3	1:7:374:MET:HE3	1.84	0.59
1:V:251:PRO:HG3	1:V:374:MET:HE3	1.84	0.59
1:H:600:SER:OG	1:L:601:GLN:OE1	2.19	0.59
1:g:251:PRO:HG3	1:g:374:MET:HE3	1.84	0.59
1:v:251:PRO:HG3	1:v:374:MET:HE3	1.84	0.59
1:w:483:GLY:HA3	1:w:609:TRP:HB3	1.83	0.59
1:J:251:PRO:HG3	1:J:374:MET:HE3	1.84	0.59
1:T:251:PRO:HG3	1:T:374:MET:HE3	1.84	0.59
1:X:483:GLY:HA3	1:X:609:TRP:HB3	1.83	0.59
1:p:483:GLY:HA3	1:p:609:TRP:HB3	1.83	0.58
1:r:656:VAL:HG11	1:N:324:LYS:HE3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:483:GLY:HA3	1:a:609:TRP:HB3	1.83	0.58
1:T:258:TYR:OH	1:T:399:GLU:OE1	2.18	0.58
1:T:483:GLY:HA3	1:T:609:TRP:HB3	1.83	0.58
1:e:251:PRO:HG3	1:e:374:MET:HE3	1.84	0.58
1:l:483:GLY:HA3	1:l:609:TRP:HB3	1.83	0.58
1:v:600:SER:OG	1:O:601:GLN:OE1	2.19	0.58
1:h:251:PRO:HG3	1:h:374:MET:HE3	1.84	0.58
1:H:251:PRO:HG3	1:H:374:MET:HE3	1.84	0.58
1:7:324:LYS:HE3	1:P:656:VAL:HG11	1.85	0.58
1:d:251:PRO:HG3	1:d:374:MET:HE3	1.84	0.58
1:f:251:PRO:HG3	1:f:374:MET:HE3	1.84	0.58
1:O:251:PRO:HG3	1:O:374:MET:HE3	1.84	0.58
1:P:251:PRO:HG3	1:P:374:MET:HE3	1.84	0.58
1:U:251:PRO:HG3	1:U:374:MET:HE3	1.84	0.58
1:Y:251:PRO:HG3	1:Y:374:MET:HE3	1.84	0.58
1:5:324:LYS:HE3	1:X:656:VAL:HG11	1.86	0.58
1:7:258:TYR:OH	1:7:399:GLU:OE1	2.18	0.58
1:H:258:TYR:OH	1:H:399:GLU:OE1	2.18	0.58
1:z:656:VAL:HG11	1:b:324:LYS:HE3	1.86	0.58
1:F:258:TYR:OH	1:F:399:GLU:OE1	2.18	0.58
1:p:251:PRO:HB3	1:l:660:PRO:HG2	1.86	0.57
1:h:251:PRO:HB3	1:J:660:PRO:HG2	1.86	0.57
1:R:381:LEU:HD13	1:V:435:ARG:HD2	1.86	0.57
1:1:258:TYR:OH	1:1:399:GLU:OE1	2.18	0.57
1:s:381:LEU:HD13	1:x:435:ARG:HD2	1.87	0.57
1:1:251:PRO:HB3	1:i:660:PRO:HG2	1.86	0.57
1:D:258:TYR:OH	1:D:399:GLU:OE1	2.18	0.57
1:v:381:LEU:HD13	1:O:435:ARG:HD2	1.87	0.57
1:m:660:PRO:HG2	1:c:251:PRO:HB3	1.87	0.57
1:U:381:LEU:HD13	1:Y:435:ARG:HD2	1.87	0.57
1:m:258:TYR:OH	1:m:399:GLU:OE1	2.18	0.57
1:A:660:PRO:HG2	1:6:251:PRO:HB3	1.87	0.57
1:t:381:LEU:HD13	1:y:435:ARG:HD2	1.87	0.57
1:g:251:PRO:HB3	1:S:660:PRO:HG2	1.87	0.57
1:v:435:ARG:HD2	1:6:381:LEU:HD13	1.87	0.57
1:w:381:LEU:HD13	1:2:435:ARG:HD2	1.87	0.57
1:q:660:PRO:HG2	1:W:251:PRO:HB3	1.87	0.56
1:S:435:ARG:HD2	1:a:381:LEU:HD13	1.87	0.56
1:U:435:ARG:HD2	1:c:381:LEU:HD13	1.87	0.56
1:e:381:LEU:HD13	1:j:435:ARG:HD2	1.87	0.56
1:I:381:LEU:HD13	1:M:435:ARG:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:324:LYS:HE3	1:i:656:VAL:HG11	1.87	0.56
1:l:381:LEU:HD13	1:A:435:ARG:HD2	1.87	0.56
1:C:381:LEU:HD13	1:D:435:ARG:HD2	1.87	0.56
1:C:435:ARG:HD2	1:E:381:LEU:HD13	1.87	0.56
1:d:660:PRO:HG2	1:s:251:PRO:HB3	1.88	0.56
1:e:435:ARG:HD2	1:o:381:LEU:HD13	1.88	0.56
1:y:324:LYS:HE3	1:Q:656:VAL:HG11	1.87	0.56
1:f:660:PRO:HG2	1:u:251:PRO:HB3	1.88	0.56
1:u:435:ARG:HD2	1:5:381:LEU:HD13	1.87	0.56
1:h:324:LYS:HE3	1:J:656:VAL:HG11	1.87	0.56
1:w:435:ARG:HD2	1:7:381:LEU:HD13	1.87	0.56
1:V:258:TYR:OH	1:V:399:GLU:OE1	2.18	0.56
1:P:251:PRO:HB3	1:M:660:PRO:HG2	1.86	0.56
1:T:381:LEU:HD13	1:X:435:ARG:HD2	1.87	0.56
1:M:381:LEU:HD13	1:Q:435:ARG:HD2	1.87	0.56
1:Y:381:LEU:HD13	1:c:435:ARG:HD2	1.88	0.56
1:D:381:LEU:HD13	1:E:435:ARG:HD2	1.88	0.56
1:d:381:LEU:HD13	1:i:435:ARG:HD2	1.87	0.56
1:5:258:TYR:OH	1:5:399:GLU:OE1	2.18	0.56
1:F:435:ARG:HD2	1:N:381:LEU:HD13	1.88	0.56
1:G:435:ARG:HD2	1:O:381:LEU:HD13	1.88	0.56
1:X:381:LEU:HD13	1:b:435:ARG:HD2	1.88	0.56
1:I:435:ARG:HD2	1:Q:381:LEU:HD13	1.88	0.56
1:t:656:VAL:HG11	1:I:324:LYS:HE3	1.87	0.56
1:h:435:ARG:HD2	1:r:381:LEU:HD13	1.88	0.56
1:7:251:PRO:HB3	1:P:660:PRO:HG2	1.88	0.56
1:V:381:LEU:HD13	1:Z:435:ARG:HD2	1.88	0.56
1:K:381:LEU:HD13	1:O:435:ARG:HD2	1.88	0.56
1:T:435:ARG:HD2	1:b:381:LEU:HD13	1.87	0.56
1:e:660:PRO:HG2	1:t:251:PRO:HB3	1.88	0.56
1:z:381:LEU:HD13	1:5:435:ARG:HD2	1.88	0.56
1:g:660:PRO:HG2	1:v:251:PRO:HB3	1.88	0.56
1:Z:251:PRO:HB3	1:O:660:PRO:HG2	1.87	0.56
1:W:381:LEU:HD13	1:a:435:ARG:HD2	1.88	0.56
1:L:660:PRO:HG2	1:Q:251:PRO:HB3	1.88	0.56
1:y:251:PRO:HB3	1:Q:660:PRO:HG2	1.88	0.56
1:y:381:LEU:HD13	1:4:435:ARG:HD2	1.88	0.56
1:f:435:ARG:HD2	1:p:381:LEU:HD13	1.88	0.56
1:2:660:PRO:HG2	1:H:251:PRO:HB3	1.88	0.56
1:S:381:LEU:HD13	1:W:435:ARG:HD2	1.86	0.56
1:1:660:PRO:HG2	1:C:251:PRO:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:660:PRO:HG2	1:f:251:PRO:HB3	1.88	0.56
1:j:381:LEU:HD13	1:o:435:ARG:HD2	1.88	0.56
1:p:258:TYR:OH	1:p:399:GLU:OE1	2.18	0.56
1:z:258:TYR:OH	1:z:399:GLU:OE1	2.18	0.56
1:z:660:PRO:HG2	1:b:251:PRO:HB3	1.88	0.56
1:r:251:PRO:HB3	1:Y:660:PRO:HG2	1.87	0.56
1:F:381:LEU:HD13	1:J:435:ARG:HD2	1.88	0.56
1:R:435:ARG:HD2	1:Z:381:LEU:HD13	1.87	0.56
1:G:660:PRO:HG2	1:S:251:PRO:HB3	1.88	0.56
1:m:381:LEU:HD13	1:r:435:ARG:HD2	1.88	0.56
1:r:660:PRO:HG2	1:N:251:PRO:HB3	1.88	0.56
1:2:656:VAL:HG11	1:H:324:LYS:HE3	1.87	0.56
1:i:381:LEU:HD13	1:n:435:ARG:HD2	1.88	0.56
1:e:656:VAL:HG11	1:t:324:LYS:HE3	1.88	0.56
1:t:435:ARG:HD2	1:4:381:LEU:HD13	1.87	0.56
1:p:324:LYS:HE3	1:l:656:VAL:HG11	1.88	0.56
1:G:258:TYR:OH	1:G:399:GLU:OE1	2.18	0.56
1:G:656:VAL:HG11	1:S:324:LYS:HE3	1.88	0.56
1:H:381:LEU:HD13	1:L:435:ARG:HD2	1.87	0.56
1:I:656:VAL:HG11	1:U:324:LYS:HE3	1.88	0.56
1:C:258:TYR:OH	1:C:399:GLU:OE1	2.18	0.55
1:g:656:VAL:HG11	1:v:324:LYS:HE3	1.88	0.55
1:C:656:VAL:HG11	1:o:324:LYS:HE3	1.88	0.55
1:x:660:PRO:HG2	1:e:251:PRO:HB3	1.87	0.55
1:y:258:TYR:OH	1:y:399:GLU:OE1	2.18	0.55
1:f:656:VAL:HG11	1:u:324:LYS:HE3	1.88	0.55
1:k:660:PRO:HG2	1:q:251:PRO:HB3	1.88	0.55
1:u:258:TYR:OH	1:u:399:GLU:OE1	2.18	0.55
1:G:381:LEU:HD13	1:K:435:ARG:HD2	1.87	0.55
1:1:435:ARG:HD2	1:B:381:LEU:HD13	1.88	0.55
1:A:656:VAL:HG11	1:6:324:LYS:HE3	1.88	0.55
1:E:251:PRO:HB3	1:p:660:PRO:HG2	1.88	0.55
1:x:324:LYS:NZ	1:x:337:ASN:OD1	2.37	0.55
1:f:381:LEU:HD13	1:k:435:ARG:HD2	1.87	0.55
1:5:251:PRO:HB3	1:X:660:PRO:HG2	1.88	0.55
1:g:324:LYS:HE3	1:S:656:VAL:HG11	1.86	0.55
1:q:656:VAL:HG11	1:W:324:LYS:HE3	1.87	0.55
1:S:324:LYS:NZ	1:S:337:ASN:OD1	2.38	0.55
1:D:656:VAL:HG11	1:f:324:LYS:HE3	1.87	0.55
1:s:435:ARG:HD2	1:3:381:LEU:HD13	1.87	0.55
1:u:381:LEU:HD13	1:z:435:ARG:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:660:PRO:HG2	1:w:251:PRO:HB3	1.88	0.55
1:m:656:VAL:HG11	1:c:324:LYS:HE3	1.88	0.55
1:f:324:LYS:NZ	1:f:337:ASN:OD1	2.37	0.55
1:g:435:ARG:HD2	1:q:381:LEU:HD13	1.88	0.55
1:l:381:LEU:HD13	1:q:435:ARG:HD2	1.88	0.55
1:W:324:LYS:NZ	1:W:337:ASN:OD1	2.38	0.55
1:L:381:LEU:HD13	1:P:435:ARG:HD2	1.88	0.55
1:1:324:LYS:NZ	1:1:337:ASN:OD1	2.37	0.55
1:B:324:LYS:NZ	1:B:337:ASN:OD1	2.38	0.55
1:3:324:LYS:HE3	1:o:656:VAL:HG11	1.88	0.55
1:k:381:LEU:HD13	1:p:435:ARG:HD2	1.87	0.55
1:h:324:LYS:NZ	1:h:337:ASN:OD1	2.37	0.55
1:r:324:LYS:HE3	1:Y:656:VAL:HG11	1.89	0.55
1:V:660:PRO:HG2	1:G:251:PRO:HB3	1.87	0.55
1:H:656:VAL:HG11	1:T:324:LYS:HE3	1.88	0.55
1:I:660:PRO:HG2	1:U:251:PRO:HB3	1.88	0.55
1:q:258:TYR:OH	1:q:399:GLU:OE1	2.18	0.55
1:F:660:PRO:HG2	1:R:251:PRO:HB3	1.88	0.55
1:L:258:TYR:OH	1:L:399:GLU:OE1	2.18	0.55
1:1:656:VAL:HG11	1:C:324:LYS:HE3	1.88	0.55
1:B:251:PRO:HB3	1:O:660:PRO:HG2	1.87	0.55
1:e:324:LYS:NZ	1:e:337:ASN:OD1	2.37	0.55
1:g:381:LEU:HD13	1:l:435:ARG:HD2	1.87	0.55
1:h:656:VAL:HG11	1:w:324:LYS:HE3	1.88	0.55
1:W:660:PRO:HG2	1:X:251:PRO:HB3	1.89	0.55
1:M:324:LYS:NZ	1:M:337:ASN:OD1	2.38	0.55
1:i:324:LYS:NZ	1:i:337:ASN:OD1	2.38	0.55
1:3:251:PRO:HB3	1:o:660:PRO:HG2	1.87	0.55
1:t:660:PRO:HG2	1:I:251:PRO:HB3	1.88	0.55
1:l:258:TYR:OH	1:l:399:GLU:OE1	2.18	0.55
1:R:258:TYR:OH	1:R:399:GLU:OE1	2.18	0.55
1:H:660:PRO:HG2	1:T:251:PRO:HB3	1.88	0.55
1:P:324:LYS:HE3	1:M:656:VAL:HG11	1.89	0.55
1:d:435:ARG:HD2	1:n:381:LEU:HD13	1.88	0.55
1:5:432:SER:OG	1:5:434:ASP:OD1	2.24	0.55
1:J:381:LEU:HD13	1:N:435:ARG:HD2	1.88	0.55
1:K:324:LYS:NZ	1:K:337:ASN:OD1	2.38	0.55
1:Q:432:SER:OG	1:Q:434:ASP:OD1	2.24	0.55
1:d:656:VAL:HG11	1:s:324:LYS:HE3	1.88	0.54
1:h:381:LEU:HD13	1:m:435:ARG:HD2	1.87	0.54
1:w:258:TYR:OH	1:w:399:GLU:OE1	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:381:LEU:HD13	1:7:435:ARG:HD2	1.88	0.54
1:N:324:LYS:NZ	1:N:337:ASN:OD1	2.38	0.54
1:S:258:TYR:OH	1:S:399:GLU:OE1	2.18	0.54
1:A:381:LEU:HD13	1:B:435:ARG:HD2	1.88	0.54
1:o:324:LYS:NZ	1:o:337:ASN:OD1	2.38	0.54
1:2:251:PRO:HB3	1:K:660:PRO:HG2	1.88	0.54
1:O:432:SER:OG	1:O:434:ASP:OD1	2.24	0.54
1:D:251:PRO:HB3	1:j:660:PRO:HG2	1.88	0.54
1:n:432:SER:OG	1:n:434:ASP:OD1	2.24	0.54
1:F:656:VAL:HG11	1:R:324:LYS:HE3	1.88	0.54
1:c:432:SER:OG	1:c:434:ASP:OD1	2.24	0.54
1:D:324:LYS:NZ	1:D:337:ASN:OD1	2.37	0.54
1:x:656:VAL:HG11	1:e:324:LYS:HE3	1.89	0.54
1:t:432:SER:OG	1:t:434:ASP:OD1	2.24	0.54
1:g:432:SER:OG	1:g:434:ASP:OD1	2.24	0.54
1:p:324:LYS:NZ	1:p:337:ASN:OD1	2.38	0.54
1:O:381:LEU:HD13	1:6:435:ARG:HD2	1.88	0.54
1:L:656:VAL:HG11	1:Q:324:LYS:HE3	1.90	0.54
1:I:324:LYS:NZ	1:I:337:ASN:OD1	2.37	0.54
1:y:660:PRO:HG2	1:z:251:PRO:HB3	1.89	0.54
1:4:324:LYS:HE3	1:u:656:VAL:HG11	1.89	0.54
1:4:432:SER:OG	1:4:434:ASP:OD1	2.24	0.54
1:H:435:ARG:HD2	1:P:381:LEU:HD13	1.88	0.54
1:Y:306:ASN:OD1	1:Y:691:LYS:NZ	2.37	0.54
1:B:660:PRO:HG2	1:n:251:PRO:HB3	1.88	0.54
1:v:656:VAL:HG11	1:V:324:LYS:HE3	1.89	0.54
1:C:324:LYS:NZ	1:C:337:ASN:OD1	2.37	0.54
1:d:324:LYS:NZ	1:d:337:ASN:OD1	2.37	0.54
1:s:660:PRO:HG2	1:Y:251:PRO:HB3	1.90	0.54
1:k:324:LYS:HE3	1:5:656:VAL:HG11	1.90	0.54
1:Z:324:LYS:HE3	1:O:656:VAL:HG11	1.88	0.54
1:L:251:PRO:HB3	1:b:660:PRO:HG2	1.90	0.54
1:X:306:ASN:OD1	1:X:691:LYS:NZ	2.37	0.54
1:B:324:LYS:HE3	1:O:656:VAL:HG11	1.89	0.54
1:D:432:SER:OG	1:D:434:ASP:OD1	2.24	0.54
1:i:324:LYS:HE3	1:3:656:VAL:HG11	1.90	0.54
1:x:381:LEU:HD13	1:3:435:ARG:HD2	1.88	0.54
1:4:251:PRO:HB3	1:u:660:PRO:HG2	1.90	0.54
1:V:656:VAL:HG11	1:G:324:LYS:HE3	1.90	0.54
1:A:251:PRO:HB3	1:E:660:PRO:HG2	1.90	0.53
1:E:258:TYR:OH	1:E:399:GLU:OE1	2.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:306:ASN:OD1	1:y:691:LYS:NZ	2.37	0.53
1:l:251:PRO:HB3	1:6:660:PRO:HG2	1.90	0.53
1:J:324:LYS:HE3	1:Z:656:VAL:HG11	1.90	0.53
1:K:251:PRO:HB3	1:a:660:PRO:HG2	1.90	0.53
1:K:432:SER:OG	1:K:434:ASP:OD1	2.24	0.53
1:L:324:LYS:NZ	1:L:337:ASN:OD1	2.38	0.53
1:L:324:LYS:HE3	1:b:656:VAL:HG11	1.90	0.53
1:s:324:LYS:NZ	1:s:337:ASN:OD1	2.38	0.53
1:0:306:ASN:OD1	1:0:691:LYS:NZ	2.37	0.53
1:6:306:ASN:OD1	1:6:691:LYS:NZ	2.37	0.53
1:U:324:LYS:NZ	1:U:337:ASN:OD1	2.38	0.53
1:4:258:TYR:OH	1:4:399:GLU:OE1	2.18	0.53
1:w:306:ASN:OD1	1:w:691:LYS:NZ	2.37	0.53
1:w:656:VAL:HG11	1:O:324:LYS:HE3	1.88	0.53
1:a:324:LYS:HE3	1:T:656:VAL:HG11	1.89	0.53
1:e:306:ASN:OD1	1:e:691:LYS:NZ	2.37	0.53
1:o:258:TYR:OH	1:o:399:GLU:OE1	2.18	0.53
1:u:324:LYS:NZ	1:u:337:ASN:OD1	2.38	0.53
1:0:432:SER:OG	1:0:434:ASP:OD1	2.24	0.53
1:R:324:LYS:NZ	1:R:337:ASN:OD1	2.38	0.53
1:b:432:SER:OG	1:b:434:ASP:OD1	2.24	0.53
1:M:258:TYR:OH	1:M:399:GLU:OE1	2.18	0.53
1:j:258:TYR:OH	1:j:399:GLU:OE1	2.18	0.53
1:m:324:LYS:HE3	1:7:656:VAL:HG11	1.90	0.53
1:J:251:PRO:HB3	1:Z:660:PRO:HG2	1.90	0.53
1:Z:432:SER:OG	1:Z:434:ASP:OD1	2.24	0.53
1:M:251:PRO:HB3	1:c:660:PRO:HG2	1.90	0.53
1:B:306:ASN:OD1	1:B:691:LYS:NZ	2.37	0.53
1:l:324:LYS:NZ	1:l:337:ASN:OD1	2.38	0.53
1:m:306:ASN:OD1	1:m:691:LYS:NZ	2.37	0.53
1:m:432:SER:OG	1:m:434:ASP:OD1	2.24	0.53
1:2:432:SER:OG	1:2:434:ASP:OD1	2.24	0.53
1:P:324:LYS:NZ	1:P:337:ASN:OD1	2.38	0.53
1:i:251:PRO:HB3	1:3:660:PRO:HG2	1.90	0.53
1:x:324:LYS:HE3	1:U:656:VAL:HG11	1.90	0.53
1:N:258:TYR:OH	1:N:399:GLU:OE1	2.18	0.53
1:a:251:PRO:HB3	1:T:660:PRO:HG2	1.90	0.53
1:a:432:SER:OG	1:a:434:ASP:OD1	2.24	0.53
1:M:324:LYS:HE3	1:c:656:VAL:HG11	1.90	0.53
1:Q:324:LYS:NZ	1:Q:337:ASN:OD1	2.37	0.53
1:j:432:SER:OG	1:j:434:ASP:OD1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:251:PRO:HB3	1:R:660:PRO:HG2	1.90	0.53
1:a:324:LYS:NZ	1:a:337:ASN:OD1	2.37	0.53
1:X:432:SER:OG	1:X:434:ASP:OD1	2.24	0.53
1:M:432:SER:OG	1:M:434:ASP:OD1	2.24	0.53
1:x:258:TYR:OH	1:x:399:GLU:OE1	2.18	0.53
1:v:660:PRO:HG2	1:V:251:PRO:HB3	1.91	0.53
1:i:432:SER:OG	1:i:434:ASP:OD1	2.24	0.53
1:t:253:TYR:OH	1:t:375:ILE:O	2.26	0.53
1:z:306:ASN:OD1	1:z:691:LYS:NZ	2.37	0.53
1:m:251:PRO:HB3	1:7:660:PRO:HG2	1.90	0.53
1:W:306:ASN:OD1	1:W:691:LYS:NZ	2.37	0.53
1:W:656:VAL:HG11	1:X:324:LYS:HE3	1.91	0.53
1:j:251:PRO:HB3	1:4:660:PRO:HG2	1.90	0.52
1:f:306:ASN:OD1	1:f:691:LYS:NZ	2.37	0.52
1:k:324:LYS:NZ	1:k:337:ASN:OD1	2.38	0.52
1:K:306:ASN:OD1	1:K:691:LYS:NZ	2.37	0.52
1:L:432:SER:OG	1:L:434:ASP:OD1	2.24	0.52
1:k:656:VAL:HG11	1:q:324:LYS:HE3	1.89	0.52
1:u:306:ASN:OD1	1:u:691:LYS:NZ	2.37	0.52
1:5:306:ASN:OD1	1:5:691:LYS:NZ	2.37	0.52
1:Z:324:LYS:NZ	1:Z:337:ASN:OD1	2.37	0.52
1:5:324:LYS:NZ	1:5:337:ASN:OD1	2.37	0.52
1:r:324:LYS:NZ	1:r:337:ASN:OD1	2.37	0.52
1:G:324:LYS:NZ	1:G:337:ASN:OD1	2.37	0.52
1:e:432:SER:OG	1:e:434:ASP:OD1	2.24	0.52
1:w:324:LYS:NZ	1:w:337:ASN:OD1	2.38	0.52
1:c:258:TYR:OH	1:c:399:GLU:OE1	2.18	0.52
1:A:324:LYS:HE3	1:E:656:VAL:HG11	1.90	0.52
1:C:306:ASN:OD1	1:C:691:LYS:NZ	2.37	0.52
1:n:482:PRO:O	1:n:607:MET:HG2	2.10	0.52
1:s:482:PRO:O	1:s:607:MET:HG2	2.10	0.52
1:3:432:SER:OG	1:3:434:ASP:OD1	2.24	0.52
1:l:426:SER:HB2	1:l:731:THR:HG22	1.92	0.52
1:R:253:TYR:OH	1:R:375:ILE:O	2.26	0.52
1:T:306:ASN:OD1	1:T:691:LYS:NZ	2.37	0.52
1:b:482:PRO:O	1:b:607:MET:HG2	2.10	0.52
1:Y:253:TYR:OH	1:Y:375:ILE:O	2.26	0.52
1:d:482:PRO:O	1:d:607:MET:HG2	2.10	0.52
1:i:426:SER:HB2	1:i:731:THR:HG22	1.92	0.52
1:j:426:SER:HB2	1:j:731:THR:HG22	1.92	0.52
1:o:306:ASN:OD1	1:o:691:LYS:NZ	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:426:SER:HB2	1:o:731:THR:HG22	1.92	0.52
1:p:426:SER:HB2	1:p:731:THR:HG22	1.92	0.52
1:u:482:PRO:O	1:u:607:MET:HG2	2.10	0.52
1:6:482:PRO:O	1:6:607:MET:HG2	2.10	0.52
1:F:324:LYS:NZ	1:F:337:ASN:OD1	2.37	0.52
1:J:482:PRO:O	1:J:607:MET:HG2	2.10	0.52
1:K:482:PRO:O	1:K:607:MET:HG2	2.10	0.52
1:O:324:LYS:NZ	1:O:337:ASN:OD1	2.37	0.52
1:X:426:SER:HB2	1:X:731:THR:HG22	1.92	0.52
1:I:306:ASN:OD1	1:I:691:LYS:NZ	2.37	0.52
1:Y:482:PRO:O	1:Y:607:MET:HG2	2.10	0.52
1:n:306:ASN:OD1	1:n:691:LYS:NZ	2.37	0.52
1:3:482:PRO:O	1:3:607:MET:HG2	2.10	0.52
1:e:482:PRO:O	1:e:607:MET:HG2	2.10	0.52
1:o:482:PRO:O	1:o:607:MET:HG2	2.10	0.52
1:t:482:PRO:O	1:t:607:MET:HG2	2.10	0.52
1:y:324:LYS:NZ	1:y:337:ASN:OD1	2.37	0.52
1:y:426:SER:HB2	1:y:731:THR:HG22	1.92	0.52
1:y:482:PRO:O	1:y:607:MET:HG2	2.10	0.52
1:l:482:PRO:O	1:l:607:MET:HG2	2.10	0.52
1:w:426:SER:HB2	1:w:731:THR:HG22	1.92	0.52
1:2:324:LYS:NZ	1:2:337:ASN:OD1	2.37	0.52
1:2:426:SER:HB2	1:2:731:THR:HG22	1.92	0.52
1:J:426:SER:HB2	1:J:731:THR:HG22	1.92	0.52
1:V:324:LYS:NZ	1:V:337:ASN:OD1	2.37	0.52
1:W:426:SER:HB2	1:W:731:THR:HG22	1.92	0.52
1:D:253:TYR:OH	1:D:375:ILE:O	2.26	0.52
1:j:482:PRO:O	1:j:607:MET:HG2	2.10	0.52
1:r:482:PRO:O	1:r:607:MET:HG2	2.10	0.52
1:N:426:SER:HB2	1:N:731:THR:HG22	1.92	0.52
1:G:306:ASN:OD1	1:G:691:LYS:NZ	2.37	0.52
1:W:432:SER:OG	1:W:434:ASP:OD1	2.24	0.52
1:c:482:PRO:O	1:c:607:MET:HG2	2.10	0.52
1:B:482:PRO:O	1:B:607:MET:HG2	2.10	0.52
1:E:306:ASN:OD1	1:E:691:LYS:NZ	2.37	0.52
1:E:432:SER:OG	1:E:434:ASP:OD1	2.24	0.52
1:s:426:SER:HB2	1:s:731:THR:HG22	1.92	0.52
1:e:426:SER:HB2	1:e:731:THR:HG22	1.92	0.52
1:4:482:PRO:O	1:4:607:MET:HG2	2.10	0.52
1:g:426:SER:HB2	1:g:731:THR:HG22	1.92	0.52
1:K:324:LYS:HE3	1:a:656:VAL:HG11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:426:SER:HB2	1:a:731:THR:HG22	1.92	0.52
1:I:482:PRO:O	1:I:607:MET:HG2	2.10	0.52
1:Q:258:TYR:OH	1:Q:399:GLU:OE1	2.18	0.52
1:C:660:PRO:HG2	1:o:251:PRO:HB3	1.91	0.52
1:4:426:SER:HB2	1:4:731:THR:HG22	1.92	0.52
1:f:482:PRO:O	1:f:607:MET:HG2	2.10	0.52
1:k:251:PRO:HB3	1:5:660:PRO:HG2	1.90	0.52
1:p:482:PRO:O	1:p:607:MET:HG2	2.10	0.52
1:v:306:ASN:OD1	1:v:691:LYS:NZ	2.37	0.52
1:m:426:SER:HB2	1:m:731:THR:HG22	1.92	0.52
1:H:426:SER:HB2	1:H:731:THR:HG22	1.92	0.52
1:L:426:SER:HB2	1:L:731:THR:HG22	1.92	0.52
1:P:426:SER:HB2	1:P:731:THR:HG22	1.92	0.52
1:Q:482:PRO:O	1:Q:607:MET:HG2	2.10	0.52
1:n:426:SER:HB2	1:n:731:THR:HG22	1.92	0.51
1:t:426:SER:HB2	1:t:731:THR:HG22	1.92	0.51
1:v:432:SER:OG	1:v:434:ASP:OD1	2.24	0.51
1:w:660:PRO:HG2	1:O:251:PRO:HB3	1.91	0.51
1:F:482:PRO:O	1:F:607:MET:HG2	2.10	0.51
1:N:482:PRO:O	1:N:607:MET:HG2	2.10	0.51
1:P:482:PRO:O	1:P:607:MET:HG2	2.10	0.51
1:T:482:PRO:O	1:T:607:MET:HG2	2.10	0.51
1:I:426:SER:HB2	1:I:731:THR:HG22	1.92	0.51
1:U:482:PRO:O	1:U:607:MET:HG2	2.10	0.51
1:A:482:PRO:O	1:A:607:MET:HG2	2.10	0.51
1:B:253:TYR:OH	1:B:375:ILE:O	2.26	0.51
1:i:482:PRO:O	1:i:607:MET:HG2	2.10	0.51
1:j:324:LYS:HE3	1:4:656:VAL:HG11	1.90	0.51
1:y:656:VAL:HG11	1:z:324:LYS:HE3	1.91	0.51
1:k:258:TYR:OH	1:k:399:GLU:OE1	2.18	0.51
1:5:482:PRO:O	1:5:607:MET:HG2	2.10	0.51
1:l:324:LYS:HE3	1:6:656:VAL:HG11	1.90	0.51
1:R:482:PRO:O	1:R:607:MET:HG2	2.10	0.51
1:V:482:PRO:O	1:V:607:MET:HG2	2.10	0.51
1:W:482:PRO:O	1:W:607:MET:HG2	2.10	0.51
1:D:426:SER:HB2	1:D:731:THR:HG22	1.92	0.51
1:i:306:ASN:OD1	1:i:691:LYS:NZ	2.37	0.51
1:x:251:PRO:HB3	1:U:660:PRO:HG2	1.91	0.51
1:f:426:SER:HB2	1:f:731:THR:HG22	1.92	0.51
1:z:482:PRO:O	1:z:607:MET:HG2	2.10	0.51
1:g:482:PRO:O	1:g:607:MET:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:324:LYS:NZ	1:q:337:ASN:OD1	2.38	0.51
1:w:482:PRO:O	1:w:607:MET:HG2	2.10	0.51
1:7:426:SER:HB2	1:7:731:THR:HG22	1.92	0.51
1:F:426:SER:HB2	1:F:731:THR:HG22	1.92	0.51
1:O:426:SER:HB2	1:O:731:THR:HG22	1.92	0.51
1:T:426:SER:HB2	1:T:731:THR:HG22	1.92	0.51
1:M:306:ASN:OD1	1:M:691:LYS:NZ	2.37	0.51
1:t:306:ASN:OD1	1:t:691:LYS:NZ	2.37	0.51
1:z:426:SER:HB2	1:z:731:THR:HG22	1.92	0.51
1:0:324:LYS:HE3	1:R:656:VAL:HG11	1.91	0.51
1:2:482:PRO:O	1:2:607:MET:HG2	2.10	0.51
1:G:482:PRO:O	1:G:607:MET:HG2	2.10	0.51
1:1:482:PRO:O	1:1:607:MET:HG2	2.10	0.51
1:d:251:PRO:HB3	1:N:660:PRO:HG2	1.92	0.51
1:d:426:SER:HB2	1:d:731:THR:HG22	1.92	0.51
1:n:660:PRO:HG2	1:F:251:PRO:HB3	1.92	0.51
1:s:656:VAL:HG11	1:Y:324:LYS:HE3	1.91	0.51
1:k:482:PRO:O	1:k:607:MET:HG2	2.10	0.51
1:2:324:LYS:HE3	1:K:656:VAL:HG11	1.91	0.51
1:Z:482:PRO:O	1:Z:607:MET:HG2	2.10	0.51
1:S:482:PRO:O	1:S:607:MET:HG2	2.10	0.51
1:A:253:TYR:OH	1:A:375:ILE:O	2.26	0.51
1:H:482:PRO:O	1:H:607:MET:HG2	2.10	0.51
1:1:426:SER:HB2	1:1:731:THR:HG22	1.92	0.51
1:5:253:TYR:OH	1:5:375:ILE:O	2.26	0.51
1:q:426:SER:HB2	1:q:731:THR:HG22	1.92	0.51
1:v:426:SER:HB2	1:v:731:THR:HG22	1.92	0.51
1:v:482:PRO:O	1:v:607:MET:HG2	2.10	0.51
1:Q:426:SER:HB2	1:Q:731:THR:HG22	1.92	0.51
1:Y:324:LYS:NZ	1:Y:337:ASN:OD1	2.37	0.51
1:Y:426:SER:HB2	1:Y:731:THR:HG22	1.92	0.51
1:s:659:ASP:OD1	1:s:659:ASP:N	2.44	0.51
1:q:482:PRO:O	1:q:607:MET:HG2	2.10	0.51
1:0:482:PRO:O	1:0:607:MET:HG2	2.10	0.51
1:6:426:SER:HB2	1:6:731:THR:HG22	1.92	0.51
1:h:450:ARG:HD3	1:h:452:GLN:O	2.11	0.51
1:h:482:PRO:O	1:h:607:MET:HG2	2.10	0.51
1:r:426:SER:HB2	1:r:731:THR:HG22	1.92	0.51
1:K:258:TYR:OH	1:K:399:GLU:OE1	2.18	0.51
1:S:426:SER:HB2	1:S:731:THR:HG22	1.92	0.51
1:L:482:PRO:O	1:L:607:MET:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:659:ASP:OD1	1:I:659:ASP:N	2.44	0.51
1:c:324:LYS:NZ	1:c:337:ASN:OD1	2.37	0.51
1:B:659:ASP:OD1	1:B:659:ASP:N	2.44	0.51
1:D:659:ASP:OD1	1:D:659:ASP:N	2.44	0.51
1:E:426:SER:HB2	1:E:731:THR:HG22	1.92	0.51
1:i:450:ARG:HD3	1:i:452:GLN:O	2.11	0.51
1:x:450:ARG:HD3	1:x:452:GLN:O	2.11	0.51
1:3:659:ASP:OD1	1:3:659:ASP:N	2.44	0.51
1:t:450:ARG:HD3	1:t:452:GLN:O	2.11	0.51
1:k:426:SER:HB2	1:k:731:THR:HG22	1.92	0.51
1:z:450:ARG:HD3	1:z:452:GLN:O	2.11	0.51
1:5:426:SER:HB2	1:5:731:THR:HG22	1.92	0.51
1:l:659:ASP:OD1	1:l:659:ASP:N	2.44	0.51
1:0:426:SER:HB2	1:0:731:THR:HG22	1.92	0.51
1:Z:659:ASP:OD1	1:Z:659:ASP:N	2.44	0.51
1:P:450:ARG:HD3	1:P:452:GLN:O	2.11	0.51
1:T:659:ASP:OD1	1:T:659:ASP:N	2.44	0.51
1:X:482:PRO:O	1:X:607:MET:HG2	2.10	0.51
1:A:426:SER:HB2	1:A:731:THR:HG22	1.92	0.51
1:D:450:ARG:HD3	1:D:452:GLN:O	2.11	0.51
1:E:482:PRO:O	1:E:607:MET:HG2	2.10	0.51
1:n:450:ARG:HD3	1:n:452:GLN:O	2.11	0.51
1:o:450:ARG:HD3	1:o:452:GLN:O	2.11	0.51
1:t:258:TYR:OH	1:t:399:GLU:OE1	2.18	0.51
1:t:324:LYS:NZ	1:t:337:ASN:OD1	2.38	0.51
1:k:659:ASP:OD1	1:k:659:ASP:N	2.44	0.51
1:u:426:SER:HB2	1:u:731:THR:HG22	1.92	0.51
1:5:450:ARG:HD3	1:5:452:GLN:O	2.11	0.51
1:5:659:ASP:N	1:5:659:ASP:OD1	2.44	0.51
1:l:450:ARG:HD3	1:l:452:GLN:O	2.11	0.51
1:m:450:ARG:HD3	1:m:452:GLN:O	2.11	0.51
1:m:482:PRO:O	1:m:607:MET:HG2	2.10	0.51
1:O:482:PRO:O	1:O:607:MET:HG2	2.10	0.51
1:S:659:ASP:OD1	1:S:659:ASP:N	2.44	0.51
1:H:450:ARG:HD3	1:H:452:GLN:O	2.11	0.51
1:H:659:ASP:OD1	1:H:659:ASP:N	2.44	0.51
1:U:659:ASP:OD1	1:U:659:ASP:N	2.44	0.51
1:D:482:PRO:O	1:D:607:MET:HG2	2.10	0.50
1:E:450:ARG:HD3	1:E:452:GLN:O	2.11	0.50
1:E:659:ASP:N	1:E:659:ASP:OD1	2.44	0.50
1:d:450:ARG:HD3	1:d:452:GLN:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:659:ASP:N	1:j:659:ASP:OD1	2.44	0.50
1:4:324:LYS:NZ	1:4:337:ASN:OD1	2.37	0.50
1:4:450:ARG:HD3	1:4:452:GLN:O	2.11	0.50
1:p:659:ASP:N	1:p:659:ASP:OD1	2.44	0.50
1:q:450:ARG:HD3	1:q:452:GLN:O	2.11	0.50
1:0:324:LYS:NZ	1:0:337:ASN:OD1	2.37	0.50
1:7:482:PRO:O	1:7:607:MET:HG2	2.10	0.50
1:F:450:ARG:HD3	1:F:452:GLN:O	2.11	0.50
1:J:306:ASN:OD1	1:J:691:LYS:NZ	2.37	0.50
1:R:426:SER:HB2	1:R:731:THR:HG22	1.92	0.50
1:V:426:SER:HB2	1:V:731:THR:HG22	1.92	0.50
1:W:450:ARG:HD3	1:W:452:GLN:O	2.11	0.50
1:a:482:PRO:O	1:a:607:MET:HG2	2.10	0.50
1:1:306:ASN:OD1	1:1:691:LYS:NZ	2.37	0.50
1:C:482:PRO:O	1:C:607:MET:HG2	2.10	0.50
1:x:482:PRO:O	1:x:607:MET:HG2	2.10	0.50
1:e:659:ASP:N	1:e:659:ASP:OD1	2.44	0.50
1:4:659:ASP:N	1:4:659:ASP:OD1	2.44	0.50
1:v:324:LYS:NZ	1:v:337:ASN:OD1	2.38	0.50
1:m:324:LYS:NZ	1:m:337:ASN:OD1	2.37	0.50
1:J:450:ARG:HD3	1:J:452:GLN:O	2.11	0.50
1:K:426:SER:HB2	1:K:731:THR:HG22	1.92	0.50
1:K:450:ARG:HD3	1:K:452:GLN:O	2.11	0.50
1:H:324:LYS:NZ	1:H:337:ASN:OD1	2.37	0.50
1:L:659:ASP:OD1	1:L:659:ASP:N	2.44	0.50
1:M:450:ARG:HD3	1:M:452:GLN:O	2.11	0.50
1:M:482:PRO:O	1:M:607:MET:HG2	2.10	0.50
1:f:450:ARG:HD3	1:f:452:GLN:O	2.11	0.50
1:g:324:LYS:NZ	1:g:337:ASN:OD1	2.37	0.50
1:6:659:ASP:OD1	1:6:659:ASP:N	2.44	0.50
1:h:426:SER:HB2	1:h:731:THR:HG22	1.92	0.50
1:m:659:ASP:OD1	1:m:659:ASP:N	2.44	0.50
1:G:426:SER:HB2	1:G:731:THR:HG22	1.92	0.50
1:L:450:ARG:HD3	1:L:452:GLN:O	2.11	0.50
1:T:450:ARG:HD3	1:T:452:GLN:O	2.11	0.50
1:Q:450:ARG:HD3	1:Q:452:GLN:O	2.11	0.50
1:Q:659:ASP:OD1	1:Q:659:ASP:N	2.44	0.50
1:U:426:SER:HB2	1:U:731:THR:HG22	1.92	0.50
1:1:450:ARG:HD3	1:1:452:GLN:O	2.11	0.50
1:B:426:SER:HB2	1:B:731:THR:HG22	1.92	0.50
1:n:659:ASP:OD1	1:n:659:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:426:SER:HB2	1:3:731:THR:HG22	1.92	0.50
1:e:450:ARG:HD3	1:e:452:GLN:O	2.11	0.50
1:f:659:ASP:OD1	1:f:659:ASP:N	2.44	0.50
1:w:450:ARG:HD3	1:w:452:GLN:O	2.11	0.50
1:c:426:SER:HB2	1:c:731:THR:HG22	1.92	0.50
1:x:426:SER:HB2	1:x:731:THR:HG22	1.92	0.50
1:3:450:ARG:HD3	1:3:452:GLN:O	2.11	0.50
1:y:450:ARG:HD3	1:y:452:GLN:O	2.11	0.50
1:g:258:TYR:OH	1:g:399:GLU:OE1	2.18	0.50
1:q:306:ASN:OD1	1:q:691:LYS:NZ	2.37	0.50
1:2:306:ASN:OD1	1:2:691:LYS:NZ	2.37	0.50
1:V:450:ARG:HD3	1:V:452:GLN:O	2.11	0.50
1:G:450:ARG:HD3	1:G:452:GLN:O	2.11	0.50
1:b:324:LYS:NZ	1:b:337:ASN:OD1	2.37	0.50
1:M:426:SER:HB2	1:M:731:THR:HG22	1.92	0.50
1:A:450:ARG:HD3	1:A:452:GLN:O	2.11	0.50
1:0:450:ARG:HD3	1:0:452:GLN:O	2.11	0.50
1:r:659:ASP:OD1	1:r:659:ASP:N	2.44	0.50
1:2:659:ASP:OD1	1:2:659:ASP:N	2.44	0.50
1:J:659:ASP:OD1	1:J:659:ASP:N	2.44	0.50
1:S:450:ARG:HD3	1:S:452:GLN:O	2.11	0.50
1:c:450:ARG:HD3	1:c:452:GLN:O	2.11	0.50
1:c:659:ASP:OD1	1:c:659:ASP:N	2.44	0.50
1:1:432:SER:OG	1:1:434:ASP:OD1	2.24	0.50
1:D:324:LYS:HE3	1:j:656:VAL:HG11	1.92	0.50
1:f:258:TYR:OH	1:f:399:GLU:OE1	2.18	0.50
1:l:306:ASN:OD1	1:l:691:LYS:NZ	2.37	0.50
1:v:450:ARG:HD3	1:v:452:GLN:O	2.11	0.50
1:6:324:LYS:NZ	1:6:337:ASN:OD1	2.38	0.50
1:N:450:ARG:HD3	1:N:452:GLN:O	2.11	0.50
1:Z:258:TYR:OH	1:Z:399:GLU:OE1	2.18	0.50
1:Z:450:ARG:HD3	1:Z:452:GLN:O	2.11	0.50
1:O:450:ARG:HD3	1:O:452:GLN:O	2.11	0.50
1:X:450:ARG:HD3	1:X:452:GLN:O	2.11	0.50
1:b:426:SER:HB2	1:b:731:THR:HG22	1.92	0.50
1:A:324:LYS:NZ	1:A:337:ASN:OD1	2.38	0.50
1:B:450:ARG:HD3	1:B:452:GLN:O	2.11	0.50
1:C:426:SER:HB2	1:C:731:THR:HG22	1.92	0.50
1:p:450:ARG:HD3	1:p:452:GLN:O	2.11	0.50
1:6:450:ARG:HD3	1:6:452:GLN:O	2.11	0.50
1:r:258:TYR:OH	1:r:399:GLU:OE1	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:450:ARG:HD3	1:r:452:GLN:O	2.11	0.50
1:2:450:ARG:HD3	1:2:452:GLN:O	2.11	0.50
1:F:432:SER:OG	1:F:434:ASP:OD1	2.24	0.50
1:F:659:ASP:OD1	1:F:659:ASP:N	2.44	0.50
1:a:450:ARG:HD3	1:a:452:GLN:O	2.11	0.50
1:R:450:ARG:HD3	1:R:452:GLN:O	2.11	0.50
1:b:450:ARG:HD3	1:b:452:GLN:O	2.11	0.50
1:b:488:GLN:HA	1:b:509:THR:OG1	2.12	0.50
1:M:565:GLU:O	1:M:568:ILE:HG12	2.12	0.50
1:n:565:GLU:O	1:n:568:ILE:HG12	2.12	0.49
1:f:565:GLU:O	1:f:568:ILE:HG12	2.13	0.49
1:p:306:ASN:OD1	1:p:691:LYS:NZ	2.37	0.49
1:u:450:ARG:HD3	1:u:452:GLN:O	2.11	0.49
1:z:324:LYS:NZ	1:z:337:ASN:OD1	2.38	0.49
1:z:659:ASP:OD1	1:z:659:ASP:N	2.44	0.49
1:2:565:GLU:O	1:2:568:ILE:HG12	2.12	0.49
1:7:450:ARG:HD3	1:7:452:GLN:O	2.11	0.49
1:Z:426:SER:HB2	1:Z:731:THR:HG22	1.92	0.49
1:H:565:GLU:O	1:H:568:ILE:HG12	2.12	0.49
1:X:565:GLU:O	1:X:568:ILE:HG12	2.12	0.49
1:b:565:GLU:O	1:b:568:ILE:HG12	2.12	0.49
1:b:659:ASP:N	1:b:659:ASP:OD1	2.44	0.49
1:U:565:GLU:O	1:U:568:ILE:HG12	2.12	0.49
1:n:656:VAL:HG11	1:F:324:LYS:HE3	1.93	0.49
1:j:450:ARG:HD3	1:j:452:GLN:O	2.11	0.49
1:y:392:ARG:NH2	1:4:566:GLU:OE1	2.46	0.49
1:4:488:GLN:HA	1:4:509:THR:OG1	2.12	0.49
1:u:565:GLU:O	1:u:568:ILE:HG12	2.12	0.49
1:z:528:THR:HG23	1:z:538:PRO:HD2	1.95	0.49
1:5:565:GLU:O	1:5:568:ILE:HG12	2.12	0.49
1:g:565:GLU:O	1:g:568:ILE:HG12	2.12	0.49
1:l:565:GLU:O	1:l:568:ILE:HG12	2.12	0.49
1:7:528:THR:HG23	1:7:538:PRO:HD2	1.94	0.49
1:N:659:ASP:OD1	1:N:659:ASP:N	2.44	0.49
1:K:392:ARG:NH2	1:O:566:GLU:OE1	2.46	0.49
1:O:659:ASP:OD1	1:O:659:ASP:N	2.44	0.49
1:P:426:SER:OG	1:P:426:SER:O	2.31	0.49
1:T:488:GLN:HA	1:T:509:THR:OG1	2.13	0.49
1:I:528:THR:HG23	1:I:538:PRO:HD2	1.95	0.49
1:U:450:ARG:HD3	1:U:452:GLN:O	2.11	0.49
1:Y:565:GLU:O	1:Y:568:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:488:GLN:HA	1:c:509:THR:OG1	2.13	0.49
1:C:432:SER:OG	1:C:434:ASP:OD1	2.24	0.49
1:C:450:ARG:HD3	1:C:452:GLN:O	2.11	0.49
1:C:528:THR:HG23	1:C:538:PRO:HD2	1.95	0.49
1:D:528:THR:HG23	1:D:538:PRO:HD2	1.95	0.49
1:E:565:GLU:O	1:E:568:ILE:HG12	2.12	0.49
1:d:528:THR:HG23	1:d:538:PRO:HD2	1.95	0.49
1:3:488:GLN:HA	1:3:509:THR:OG1	2.12	0.49
1:e:565:GLU:O	1:e:568:ILE:HG12	2.12	0.49
1:o:528:THR:HG23	1:o:538:PRO:HD2	1.95	0.49
1:g:306:ASN:OD1	1:g:691:LYS:NZ	2.37	0.49
1:v:488:GLN:HA	1:v:509:THR:OG1	2.12	0.49
1:0:528:THR:HG23	1:0:538:PRO:HD2	1.95	0.49
1:w:488:GLN:HA	1:w:509:THR:OG1	2.13	0.49
1:V:488:GLN:HA	1:V:509:THR:OG1	2.13	0.49
1:Z:253:TYR:OH	1:Z:375:ILE:O	2.26	0.49
1:W:528:THR:HG23	1:W:538:PRO:HD2	1.94	0.49
1:a:528:THR:HG23	1:a:538:PRO:HD2	1.95	0.49
1:P:565:GLU:O	1:P:568:ILE:HG12	2.12	0.49
1:T:324:LYS:NZ	1:T:337:ASN:OD1	2.38	0.49
1:I:450:ARG:HD3	1:I:452:GLN:O	2.11	0.49
1:1:528:THR:HG23	1:1:538:PRO:HD2	1.95	0.49
1:1:623:LYS:HB2	1:1:645:PRO:HG3	1.95	0.49
1:E:623:LYS:HB2	1:E:645:PRO:HG3	1.95	0.49
1:s:306:ASN:OD1	1:s:691:LYS:NZ	2.37	0.49
1:3:565:GLU:O	1:3:568:ILE:HG12	2.12	0.49
1:4:565:GLU:O	1:4:568:ILE:HG12	2.12	0.49
1:k:450:ARG:HD3	1:k:452:GLN:O	2.11	0.49
1:p:565:GLU:O	1:p:568:ILE:HG12	2.12	0.49
1:5:697:TRP:CH2	1:b:369:PRO:HD3	2.48	0.49
1:g:450:ARG:HD3	1:g:452:GLN:O	2.11	0.49
1:l:528:THR:HG23	1:l:538:PRO:HD2	1.95	0.49
1:l:623:LYS:HB2	1:l:645:PRO:HG3	1.95	0.49
1:0:565:GLU:O	1:0:568:ILE:HG12	2.12	0.49
1:h:565:GLU:O	1:h:568:ILE:HG12	2.12	0.49
1:m:392:ARG:NH2	1:r:566:GLU:OE1	2.46	0.49
1:2:488:GLN:HA	1:2:509:THR:OG1	2.12	0.49
1:Z:426:SER:OG	1:Z:426:SER:O	2.31	0.49
1:Z:528:THR:HG23	1:Z:538:PRO:HD2	1.95	0.49
1:Z:565:GLU:O	1:Z:568:ILE:HG12	2.12	0.49
1:O:565:GLU:O	1:O:568:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:623:LYS:HB2	1:P:645:PRO:HG3	1.95	0.49
1:M:488:GLN:HA	1:M:509:THR:OG1	2.13	0.49
1:U:306:ASN:OD1	1:U:691:LYS:NZ	2.37	0.49
1:B:528:THR:HG23	1:B:538:PRO:HD2	1.95	0.49
1:B:565:GLU:O	1:B:568:ILE:HG12	2.12	0.49
1:i:488:GLN:HA	1:i:509:THR:OG1	2.13	0.49
1:s:450:ARG:HD3	1:s:452:GLN:O	2.11	0.49
1:x:392:ARG:NH2	1:3:566:GLU:OE1	2.46	0.49
1:e:426:SER:OG	1:e:426:SER:O	2.31	0.49
1:t:528:THR:HG23	1:t:538:PRO:HD2	1.95	0.49
1:t:565:GLU:O	1:t:568:ILE:HG12	2.12	0.49
1:y:426:SER:OG	1:y:426:SER:O	2.31	0.49
1:4:528:THR:HG23	1:4:538:PRO:HD2	1.95	0.49
1:p:488:GLN:HA	1:p:509:THR:OG1	2.13	0.49
1:p:528:THR:HG23	1:p:538:PRO:HD2	1.95	0.49
1:z:623:LYS:HB2	1:z:645:PRO:HG3	1.95	0.49
1:m:623:LYS:HB2	1:m:645:PRO:HG3	1.95	0.49
1:2:623:LYS:HB2	1:2:645:PRO:HG3	1.95	0.49
1:F:623:LYS:HB2	1:F:645:PRO:HG3	1.95	0.49
1:K:528:THR:HG23	1:K:538:PRO:HD2	1.95	0.49
1:O:623:LYS:HB2	1:O:645:PRO:HG3	1.95	0.49
1:W:565:GLU:O	1:W:568:ILE:HG12	2.12	0.49
1:W:623:LYS:HB2	1:W:645:PRO:HG3	1.95	0.49
1:I:488:GLN:HA	1:I:509:THR:OG1	2.13	0.49
1:M:659:ASP:OD1	1:M:659:ASP:N	2.44	0.49
1:U:488:GLN:HA	1:U:509:THR:OG1	2.12	0.49
1:D:565:GLU:O	1:D:568:ILE:HG12	2.12	0.49
1:E:528:THR:HG23	1:E:538:PRO:HD2	1.94	0.49
1:i:392:ARG:NH2	1:n:566:GLU:OE1	2.46	0.49
1:f:488:GLN:HA	1:f:509:THR:OG1	2.13	0.49
1:k:392:ARG:NH2	1:p:566:GLU:OE1	2.46	0.49
1:k:565:GLU:O	1:k:568:ILE:HG12	2.12	0.49
1:5:369:PRO:HD3	1:b:697:TRP:CH2	2.48	0.49
1:5:528:THR:HG23	1:5:538:PRO:HD2	1.94	0.49
1:5:623:LYS:HB2	1:5:645:PRO:HG3	1.95	0.49
1:r:488:GLN:HA	1:r:509:THR:OG1	2.12	0.49
1:2:528:THR:HG23	1:2:538:PRO:HD2	1.95	0.49
1:7:565:GLU:O	1:7:568:ILE:HG12	2.12	0.49
1:N:565:GLU:O	1:N:568:ILE:HG12	2.12	0.49
1:R:623:LYS:HB2	1:R:645:PRO:HG3	1.95	0.49
1:Z:488:GLN:HA	1:Z:509:THR:OG1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:488:GLN:HA	1:S:509:THR:OG1	2.13	0.49
1:W:488:GLN:HA	1:W:509:THR:OG1	2.13	0.49
1:a:565:GLU:O	1:a:568:ILE:HG12	2.12	0.49
1:X:324:LYS:NZ	1:X:337:ASN:OD1	2.37	0.49
1:Y:450:ARG:HD3	1:Y:452:GLN:O	2.11	0.49
1:Y:488:GLN:HA	1:Y:509:THR:OG1	2.13	0.49
1:1:488:GLN:HA	1:1:509:THR:OG1	2.13	0.49
1:1:565:GLU:O	1:1:568:ILE:HG12	2.12	0.49
1:i:565:GLU:O	1:i:568:ILE:HG12	2.12	0.49
1:x:565:GLU:O	1:x:568:ILE:HG12	2.12	0.49
1:t:392:ARG:NH2	1:y:566:GLU:OE1	2.46	0.49
1:t:488:GLN:HA	1:t:509:THR:OG1	2.12	0.49
1:y:565:GLU:O	1:y:568:ILE:HG12	2.12	0.49
1:l:488:GLN:HA	1:l:509:THR:OG1	2.13	0.49
1:q:565:GLU:O	1:q:568:ILE:HG12	2.12	0.49
1:v:623:LYS:HB2	1:v:645:PRO:HG3	1.95	0.49
1:0:392:ARG:NH2	1:6:566:GLU:OE1	2.46	0.49
1:0:488:GLN:HA	1:0:509:THR:OG1	2.12	0.49
1:6:488:GLN:HA	1:6:509:THR:OG1	2.12	0.49
1:6:565:GLU:O	1:6:568:ILE:HG12	2.12	0.49
1:h:623:LYS:HB2	1:h:645:PRO:HG3	1.95	0.49
1:m:528:THR:HG23	1:m:538:PRO:HD2	1.95	0.49
1:m:565:GLU:O	1:m:568:ILE:HG12	2.12	0.49
1:w:528:THR:HG23	1:w:538:PRO:HD2	1.94	0.49
1:R:528:THR:HG23	1:R:538:PRO:HD2	1.94	0.49
1:Z:306:ASN:OD1	1:Z:691:LYS:NZ	2.37	0.49
1:K:426:SER:OG	1:K:426:SER:O	2.31	0.49
1:O:528:THR:HG23	1:O:538:PRO:HD2	1.95	0.49
1:S:565:GLU:O	1:S:568:ILE:HG12	2.12	0.49
1:L:392:ARG:NH2	1:P:566:GLU:OE1	2.46	0.49
1:L:623:LYS:HB2	1:L:645:PRO:HG3	1.95	0.49
1:X:659:ASP:N	1:X:659:ASP:OD1	2.44	0.49
1:c:528:THR:HG23	1:c:538:PRO:HD2	1.95	0.49
1:B:623:LYS:HB2	1:B:645:PRO:HG3	1.95	0.49
1:d:659:ASP:OD1	1:d:659:ASP:N	2.44	0.49
1:s:488:GLN:HA	1:s:509:THR:OG1	2.12	0.49
1:x:306:ASN:OD1	1:x:691:LYS:NZ	2.37	0.49
1:j:324:LYS:NZ	1:j:337:ASN:OD1	2.38	0.49
1:j:623:LYS:HB2	1:j:645:PRO:HG3	1.95	0.49
1:z:565:GLU:O	1:z:568:ILE:HG12	2.12	0.49
1:v:565:GLU:O	1:v:568:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:565:GLU:O	1:r:568:ILE:HG12	2.12	0.49
1:w:432:SER:OG	1:w:434:ASP:OD1	2.24	0.49
1:7:623:LYS:HB2	1:7:645:PRO:HG3	1.95	0.49
1:F:306:ASN:OD1	1:F:691:LYS:NZ	2.37	0.49
1:N:306:ASN:OD1	1:N:691:LYS:NZ	2.37	0.49
1:K:565:GLU:O	1:K:568:ILE:HG12	2.12	0.49
1:H:432:SER:OG	1:H:434:ASP:OD1	2.24	0.49
1:L:426:SER:OG	1:L:426:SER:O	2.31	0.49
1:L:565:GLU:O	1:L:568:ILE:HG12	2.12	0.49
1:X:392:ARG:NH2	1:b:566:GLU:OE1	2.46	0.49
1:X:528:THR:HG23	1:X:538:PRO:HD2	1.94	0.49
1:M:392:ARG:NH2	1:Q:566:GLU:OE1	2.46	0.49
1:E:426:SER:OG	1:E:426:SER:O	2.31	0.49
1:n:528:THR:HG23	1:n:538:PRO:HD2	1.95	0.49
1:n:623:LYS:HB2	1:n:645:PRO:HG3	1.95	0.49
1:s:528:THR:HG23	1:s:538:PRO:HD2	1.95	0.49
1:f:623:LYS:HB2	1:f:645:PRO:HG3	1.95	0.49
1:p:623:LYS:HB2	1:p:645:PRO:HG3	1.95	0.49
1:u:392:ARG:NH2	1:z:566:GLU:OE1	2.46	0.49
1:u:528:THR:HG23	1:u:538:PRO:HD2	1.94	0.49
1:l:392:ARG:NH2	1:q:566:GLU:OE1	2.46	0.49
1:0:392:ARG:HG3	1:6:701:ILE:HD12	1.95	0.49
1:0:659:ASP:OD1	1:0:659:ASP:N	2.44	0.49
1:m:426:SER:OG	1:m:426:SER:O	2.31	0.49
1:R:392:ARG:NH2	1:V:566:GLU:OE1	2.46	0.49
1:R:565:GLU:O	1:R:568:ILE:HG12	2.12	0.49
1:O:488:GLN:HA	1:O:509:THR:OG1	2.13	0.49
1:P:488:GLN:HA	1:P:509:THR:OG1	2.13	0.49
1:I:565:GLU:O	1:I:568:ILE:HG12	2.12	0.49
1:M:253:TYR:OH	1:M:375:ILE:O	2.26	0.49
1:A:392:ARG:NH2	1:B:566:GLU:OE1	2.46	0.49
1:A:528:THR:HG23	1:A:538:PRO:HD2	1.95	0.49
1:D:392:ARG:HG3	1:E:701:ILE:HD12	1.95	0.49
1:s:623:LYS:HB2	1:s:645:PRO:HG3	1.95	0.49
1:j:355:TYR:CE2	1:j:357:LEU:HB2	2.48	0.49
1:o:623:LYS:HB2	1:o:645:PRO:HG3	1.95	0.49
1:o:659:ASP:N	1:o:659:ASP:OD1	2.44	0.49
1:y:392:ARG:HG3	1:4:701:ILE:HD12	1.95	0.49
1:f:426:SER:OG	1:f:426:SER:O	2.31	0.49
1:z:392:ARG:NH2	1:5:566:GLU:OE1	2.46	0.49
1:z:392:ARG:HG3	1:5:701:ILE:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:623:LYS:HB2	1:g:645:PRO:HG3	1.95	0.49
1:6:432:SER:OG	1:6:434:ASP:OD1	2.24	0.49
1:h:528:THR:HG23	1:h:538:PRO:HD2	1.95	0.49
1:F:565:GLU:O	1:F:568:ILE:HG12	2.12	0.49
1:N:488:GLN:HA	1:N:509:THR:OG1	2.13	0.49
1:R:488:GLN:HA	1:R:509:THR:OG1	2.13	0.49
1:V:392:ARG:HG3	1:Z:701:ILE:HD12	1.95	0.49
1:H:528:THR:HG23	1:H:538:PRO:HD2	1.95	0.49
1:T:565:GLU:O	1:T:568:ILE:HG12	2.12	0.49
1:X:488:GLN:HA	1:X:509:THR:OG1	2.13	0.49
1:b:528:THR:HG23	1:b:538:PRO:HD2	1.95	0.49
1:M:392:ARG:HG3	1:Q:701:ILE:HD12	1.95	0.49
1:U:258:TYR:OH	1:U:399:GLU:OE1	2.18	0.49
1:c:565:GLU:O	1:c:568:ILE:HG12	2.12	0.49
1:B:488:GLN:HA	1:B:509:THR:OG1	2.13	0.48
1:C:565:GLU:O	1:C:568:ILE:HG12	2.12	0.48
1:E:307:TRP:CE2	1:E:736:ARG:HG2	2.49	0.48
1:x:307:TRP:CE2	1:x:736:ARG:HG2	2.48	0.48
1:o:565:GLU:O	1:o:568:ILE:HG12	2.12	0.48
1:y:488:GLN:HA	1:y:509:THR:OG1	2.12	0.48
1:4:623:LYS:HB2	1:4:645:PRO:HG3	1.95	0.48
1:f:528:THR:HG23	1:f:538:PRO:HD2	1.95	0.48
1:u:659:ASP:OD1	1:u:659:ASP:N	2.44	0.48
1:g:307:TRP:CE2	1:g:736:ARG:HG2	2.48	0.48
1:g:426:SER:OG	1:g:426:SER:O	2.31	0.48
1:l:392:ARG:HG3	1:q:701:ILE:HD12	1.95	0.48
1:q:488:GLN:HA	1:q:509:THR:OG1	2.13	0.48
1:6:355:TYR:CE2	1:6:357:LEU:HB2	2.48	0.48
1:m:488:GLN:HA	1:m:509:THR:OG1	2.13	0.48
1:r:307:TRP:CE2	1:r:736:ARG:HG2	2.48	0.48
1:r:355:TYR:CE2	1:r:357:LEU:HB2	2.48	0.48
1:r:528:THR:HG23	1:r:538:PRO:HD2	1.95	0.48
1:F:528:THR:HG23	1:F:538:PRO:HD2	1.95	0.48
1:R:355:TYR:CE2	1:R:357:LEU:HB2	2.48	0.48
1:G:355:TYR:CE2	1:G:357:LEU:HB2	2.48	0.48
1:G:565:GLU:O	1:G:568:ILE:HG12	2.12	0.48
1:K:392:ARG:HG3	1:O:701:ILE:HD12	1.95	0.48
1:S:307:TRP:CE2	1:S:736:ARG:HG2	2.48	0.48
1:W:392:ARG:HG3	1:a:701:ILE:HD12	1.95	0.48
1:T:355:TYR:CE2	1:T:357:LEU:HB2	2.48	0.48
1:Y:355:TYR:CE2	1:Y:357:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:392:ARG:HG3	1:c:701:ILE:HD12	1.95	0.48
1:A:355:TYR:CE2	1:A:357:LEU:HB2	2.48	0.48
1:D:306:ASN:OD1	1:D:691:LYS:NZ	2.37	0.48
1:E:355:TYR:CE2	1:E:357:LEU:HB2	2.48	0.48
1:E:697:TRP:CH2	1:f:369:PRO:HD3	2.49	0.48
1:d:324:LYS:HE3	1:N:656:VAL:HG11	1.93	0.48
1:d:392:ARG:NH2	1:i:566:GLU:OE1	2.47	0.48
1:d:488:GLN:HA	1:d:509:THR:OG1	2.13	0.48
1:d:565:GLU:O	1:d:568:ILE:HG12	2.12	0.48
1:i:355:TYR:CE2	1:i:357:LEU:HB2	2.48	0.48
1:3:306:ASN:OD1	1:3:691:LYS:NZ	2.37	0.48
1:j:565:GLU:O	1:j:568:ILE:HG12	2.12	0.48
1:k:355:TYR:CE2	1:k:357:LEU:HB2	2.48	0.48
1:z:355:TYR:CE2	1:z:357:LEU:HB2	2.48	0.48
1:h:488:GLN:HA	1:h:509:THR:OG1	2.13	0.48
1:w:307:TRP:CE2	1:w:736:ARG:HG2	2.48	0.48
1:2:392:ARG:NH2	1:7:566:GLU:OE1	2.46	0.48
1:7:369:PRO:HD3	1:H:697:TRP:CH2	2.48	0.48
1:7:488:GLN:HA	1:7:509:THR:OG1	2.13	0.48
1:J:355:TYR:CE2	1:J:357:LEU:HB2	2.48	0.48
1:J:488:GLN:HA	1:J:509:THR:OG1	2.13	0.48
1:J:623:LYS:HB2	1:J:645:PRO:HG3	1.95	0.48
1:V:392:ARG:NH2	1:Z:566:GLU:OE1	2.46	0.48
1:V:565:GLU:O	1:V:568:ILE:HG12	2.12	0.48
1:V:623:LYS:HB2	1:V:645:PRO:HG3	1.94	0.48
1:O:355:TYR:CE2	1:O:357:LEU:HB2	2.48	0.48
1:a:488:GLN:HA	1:a:509:THR:OG1	2.12	0.48
1:a:659:ASP:OD1	1:a:659:ASP:N	2.44	0.48
1:Y:392:ARG:NH2	1:c:566:GLU:OE1	2.46	0.48
1:C:355:TYR:CE2	1:C:357:LEU:HB2	2.48	0.48
1:D:392:ARG:NH2	1:E:566:GLU:OE1	2.46	0.48
1:D:488:GLN:HA	1:D:509:THR:OG1	2.13	0.48
1:d:306:ASN:OD1	1:d:691:LYS:NZ	2.37	0.48
1:i:659:ASP:OD1	1:i:659:ASP:N	2.44	0.48
1:x:426:SER:OG	1:x:426:SER:O	2.31	0.48
1:x:488:GLN:HA	1:x:509:THR:OG1	2.12	0.48
1:x:623:LYS:HB2	1:x:645:PRO:HG3	1.95	0.48
1:e:355:TYR:CE2	1:e:357:LEU:HB2	2.48	0.48
1:j:488:GLN:HA	1:j:509:THR:OG1	2.13	0.48
1:o:488:GLN:HA	1:o:509:THR:OG1	2.13	0.48
1:y:307:TRP:CE2	1:y:736:ARG:HG2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:426:SER:OG	1:4:426:SER:O	2.31	0.48
1:u:355:TYR:CE2	1:u:357:LEU:HB2	2.48	0.48
1:z:488:GLN:HA	1:z:509:THR:OG1	2.13	0.48
1:q:355:TYR:CE2	1:q:357:LEU:HB2	2.48	0.48
1:v:528:THR:HG23	1:v:538:PRO:HD2	1.94	0.48
1:w:623:LYS:HB2	1:w:645:PRO:HG3	1.95	0.48
1:2:307:TRP:CE2	1:2:736:ARG:HG2	2.49	0.48
1:2:355:TYR:CE2	1:2:357:LEU:HB2	2.48	0.48
1:J:392:ARG:NH2	1:N:566:GLU:OE1	2.46	0.48
1:J:432:SER:OG	1:J:434:ASP:OD1	2.24	0.48
1:J:565:GLU:O	1:J:568:ILE:HG12	2.12	0.48
1:N:355:TYR:CE2	1:N:357:LEU:HB2	2.48	0.48
1:R:426:SER:OG	1:R:426:SER:O	2.31	0.48
1:V:307:TRP:CE2	1:V:736:ARG:HG2	2.49	0.48
1:G:623:LYS:HB2	1:G:645:PRO:HG3	1.95	0.48
1:K:355:TYR:CE2	1:K:357:LEU:HB2	2.48	0.48
1:K:623:LYS:HB2	1:K:645:PRO:HG3	1.95	0.48
1:H:307:TRP:CE2	1:H:736:ARG:HG2	2.48	0.48
1:L:355:TYR:CE2	1:L:357:LEU:HB2	2.48	0.48
1:T:528:THR:HG23	1:T:538:PRO:HD2	1.95	0.48
1:b:307:TRP:CE2	1:b:736:ARG:HG2	2.48	0.48
1:b:623:LYS:HB2	1:b:645:PRO:HG3	1.95	0.48
1:M:355:TYR:CE2	1:M:357:LEU:HB2	2.48	0.48
1:c:355:TYR:CE2	1:c:357:LEU:HB2	2.48	0.48
1:1:426:SER:OG	1:1:426:SER:O	2.31	0.48
1:A:488:GLN:HA	1:A:509:THR:OG1	2.13	0.48
1:C:307:TRP:CE2	1:C:736:ARG:HG2	2.48	0.48
1:C:426:SER:OG	1:C:426:SER:O	2.31	0.48
1:C:623:LYS:HB2	1:C:645:PRO:HG3	1.95	0.48
1:D:623:LYS:HB2	1:D:645:PRO:HG3	1.95	0.48
1:d:623:LYS:HB2	1:d:645:PRO:HG3	1.95	0.48
1:s:307:TRP:CE2	1:s:736:ARG:HG2	2.48	0.48
1:3:355:TYR:CE2	1:3:357:LEU:HB2	2.48	0.48
1:j:392:ARG:NH2	1:o:566:GLU:OE1	2.46	0.48
1:4:355:TYR:CE2	1:4:357:LEU:HB2	2.48	0.48
1:k:432:SER:OG	1:k:434:ASP:OD1	2.24	0.48
1:k:528:THR:HG23	1:k:538:PRO:HD2	1.95	0.48
1:u:307:TRP:CE2	1:u:736:ARG:HG2	2.48	0.48
1:u:623:LYS:HB2	1:u:645:PRO:HG3	1.95	0.48
1:5:355:TYR:CE2	1:5:357:LEU:HB2	2.48	0.48
1:g:392:ARG:NH2	1:l:566:GLU:OE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:623:LYS:HB2	1:6:645:PRO:HG3	1.95	0.48
1:h:355:TYR:CE2	1:h:357:LEU:HB2	2.48	0.48
1:w:565:GLU:O	1:w:568:ILE:HG12	2.12	0.48
1:F:355:TYR:CE2	1:F:357:LEU:HB2	2.48	0.48
1:R:306:ASN:OD1	1:R:691:LYS:NZ	2.37	0.48
1:Z:623:LYS:HB2	1:Z:645:PRO:HG3	1.95	0.48
1:b:258:TYR:OH	1:b:399:GLU:OE1	2.18	0.48
1:I:307:TRP:CE2	1:I:736:ARG:HG2	2.48	0.48
1:U:392:ARG:NH2	1:Y:566:GLU:OE1	2.46	0.48
1:c:623:LYS:HB2	1:c:645:PRO:HG3	1.95	0.48
1:1:510:LYS:HG2	1:1:519:LEU:HD23	1.96	0.48
1:1:659:ASP:OD1	1:1:659:ASP:N	2.44	0.48
1:A:307:TRP:CE2	1:A:736:ARG:HG2	2.49	0.48
1:E:369:PRO:HD3	1:f:697:TRP:CH2	2.48	0.48
1:d:355:TYR:CE2	1:d:357:LEU:HB2	2.48	0.48
1:i:307:TRP:CE2	1:i:736:ARG:HG2	2.48	0.48
1:s:426:SER:OG	1:s:426:SER:O	2.31	0.48
1:x:355:TYR:CE2	1:x:357:LEU:HB2	2.48	0.48
1:e:488:GLN:HA	1:e:509:THR:OG1	2.13	0.48
1:o:307:TRP:CE2	1:o:736:ARG:HG2	2.48	0.48
1:t:566:GLU:OE1	1:4:392:ARG:NH2	2.47	0.48
1:4:307:TRP:CE2	1:4:736:ARG:HG2	2.48	0.48
1:k:488:GLN:HA	1:k:509:THR:OG1	2.13	0.48
1:p:307:TRP:CE2	1:p:736:ARG:HG2	2.48	0.48
1:p:355:TYR:CE2	1:p:357:LEU:HB2	2.48	0.48
1:h:307:TRP:CE2	1:h:736:ARG:HG2	2.48	0.48
1:m:307:TRP:CE2	1:m:736:ARG:HG2	2.48	0.48
1:7:307:TRP:CE2	1:7:736:ARG:HG2	2.48	0.48
1:N:528:THR:HG23	1:N:538:PRO:HD2	1.95	0.48
1:R:307:TRP:CE2	1:R:736:ARG:HG2	2.48	0.48
1:R:566:GLU:OE1	1:Z:392:ARG:NH2	2.47	0.48
1:K:488:GLN:HA	1:K:509:THR:OG1	2.13	0.48
1:H:488:GLN:HA	1:H:509:THR:OG1	2.13	0.48
1:L:307:TRP:CE2	1:L:736:ARG:HG2	2.48	0.48
1:L:488:GLN:HA	1:L:509:THR:OG1	2.13	0.48
1:X:307:TRP:CE2	1:X:736:ARG:HG2	2.48	0.48
1:X:392:ARG:HG3	1:b:701:ILE:HD12	1.95	0.48
1:X:623:LYS:HB2	1:X:645:PRO:HG3	1.95	0.48
1:Q:488:GLN:HA	1:Q:509:THR:OG1	2.13	0.48
1:Y:623:LYS:HB2	1:Y:645:PRO:HG3	1.95	0.48
1:B:355:TYR:CE2	1:B:357:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:488:GLN:HA	1:E:509:THR:OG1	2.12	0.48
1:e:392:ARG:NH2	1:j:566:GLU:OE1	2.47	0.48
1:j:510:LYS:HG2	1:j:519:LEU:HD23	1.96	0.48
1:t:307:TRP:CE2	1:t:736:ARG:HG2	2.48	0.48
1:t:355:TYR:CE2	1:t:357:LEU:HB2	2.48	0.48
1:y:623:LYS:HB2	1:y:645:PRO:HG3	1.95	0.48
1:f:307:TRP:CE2	1:f:736:ARG:HG2	2.48	0.48
1:f:510:LYS:HG2	1:f:519:LEU:HD23	1.96	0.48
1:5:307:TRP:CE2	1:5:736:ARG:HG2	2.49	0.48
1:v:566:GLU:OE1	1:6:392:ARG:NH2	2.47	0.48
1:h:392:ARG:NH2	1:m:566:GLU:OE1	2.47	0.48
1:m:355:TYR:CE2	1:m:357:LEU:HB2	2.48	0.48
1:w:566:GLU:OE1	1:7:392:ARG:NH2	2.47	0.48
1:2:392:ARG:HG3	1:7:701:ILE:HD12	1.95	0.48
1:J:307:TRP:CE2	1:J:736:ARG:HG2	2.49	0.48
1:J:528:THR:HG23	1:J:538:PRO:HD2	1.95	0.48
1:V:659:ASP:OD1	1:V:659:ASP:N	2.44	0.48
1:Z:355:TYR:CE2	1:Z:357:LEU:HB2	2.48	0.48
1:G:528:THR:HG23	1:G:538:PRO:HD2	1.95	0.48
1:W:392:ARG:NH2	1:a:566:GLU:OE1	2.46	0.48
1:H:623:LYS:HB2	1:H:645:PRO:HG3	1.95	0.48
1:L:306:ASN:OD1	1:L:691:LYS:NZ	2.37	0.48
1:b:355:TYR:CE2	1:b:357:LEU:HB2	2.48	0.48
1:I:355:TYR:CE2	1:I:357:LEU:HB2	2.48	0.48
1:I:623:LYS:HB2	1:I:645:PRO:HG3	1.95	0.48
1:Q:355:TYR:CE2	1:Q:357:LEU:HB2	2.48	0.48
1:Q:623:LYS:HB2	1:Q:645:PRO:HG3	1.94	0.48
1:D:355:TYR:CE2	1:D:357:LEU:HB2	2.48	0.48
1:d:307:TRP:CE2	1:d:736:ARG:HG2	2.48	0.48
1:s:565:GLU:O	1:s:568:ILE:HG12	2.12	0.48
1:x:528:THR:HG23	1:x:538:PRO:HD2	1.94	0.48
1:3:528:THR:HG23	1:3:538:PRO:HD2	1.94	0.48
1:j:392:ARG:HG3	1:o:701:ILE:HD12	1.96	0.48
1:y:510:LYS:HG2	1:y:519:LEU:HD23	1.96	0.48
1:y:528:THR:HG23	1:y:538:PRO:HD2	1.95	0.48
1:k:623:LYS:HB2	1:k:645:PRO:HG3	1.95	0.48
1:5:488:GLN:HA	1:5:509:THR:OG1	2.12	0.48
1:g:488:GLN:HA	1:g:509:THR:OG1	2.13	0.48
1:g:510:LYS:HG2	1:g:519:LEU:HD23	1.96	0.48
1:g:659:ASP:OD1	1:g:659:ASP:N	2.44	0.48
1:l:355:TYR:CE2	1:l:357:LEU:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:307:TRP:CE2	1:q:736:ARG:HG2	2.48	0.48
1:q:528:THR:HG23	1:q:538:PRO:HD2	1.95	0.48
1:q:613:ASP:OD1	1:q:731:THR:HB	2.14	0.48
1:0:355:TYR:CE2	1:0:357:LEU:HB2	2.48	0.48
1:m:392:ARG:HG3	1:r:701:ILE:HD12	1.95	0.48
1:m:510:LYS:HG2	1:m:519:LEU:HD23	1.96	0.48
1:w:392:ARG:NH2	1:2:566:GLU:OE1	2.46	0.48
1:7:697:TRP:CH2	1:H:369:PRO:HD3	2.49	0.48
1:V:528:THR:HG23	1:V:538:PRO:HD2	1.95	0.48
1:G:392:ARG:NH2	1:K:566:GLU:OE1	2.47	0.48
1:G:488:GLN:HA	1:G:509:THR:OG1	2.13	0.48
1:W:307:TRP:CE2	1:W:736:ARG:HG2	2.48	0.48
1:a:307:TRP:CE2	1:a:736:ARG:HG2	2.49	0.48
1:H:613:ASP:OD1	1:H:731:THR:HB	2.14	0.48
1:P:307:TRP:CE2	1:P:736:ARG:HG2	2.48	0.48
1:M:613:ASP:OD1	1:M:731:THR:HB	2.14	0.48
1:Q:528:THR:HG23	1:Q:538:PRO:HD2	1.95	0.48
1:Q:565:GLU:O	1:Q:568:ILE:HG12	2.12	0.48
1:1:355:TYR:CE2	1:1:357:LEU:HB2	2.48	0.48
1:1:392:ARG:NH2	1:A:566:GLU:OE1	2.47	0.48
1:1:566:GLU:OE1	1:B:392:ARG:NH2	2.47	0.48
1:B:307:TRP:CE2	1:B:736:ARG:HG2	2.48	0.48
1:C:510:LYS:HG2	1:C:519:LEU:HD23	1.96	0.48
1:n:307:TRP:CE2	1:n:736:ARG:HG2	2.48	0.48
1:s:355:TYR:CE2	1:s:357:LEU:HB2	2.48	0.48
1:s:392:ARG:NH2	1:x:566:GLU:OE1	2.46	0.48
1:3:510:LYS:HG2	1:3:519:LEU:HD23	1.96	0.48
1:e:307:TRP:CE2	1:e:736:ARG:HG2	2.48	0.48
1:e:613:ASP:OD1	1:e:731:THR:HB	2.14	0.48
1:p:613:ASP:OD1	1:p:731:THR:HB	2.14	0.48
1:u:488:GLN:HA	1:u:509:THR:OG1	2.13	0.48
1:g:355:TYR:CE2	1:g:357:LEU:HB2	2.48	0.48
1:q:623:LYS:HB2	1:q:645:PRO:HG3	1.95	0.48
1:v:307:TRP:CE2	1:v:736:ARG:HG2	2.48	0.48
1:v:392:ARG:NH2	1:0:566:GLU:OE1	2.46	0.48
1:v:510:LYS:HG2	1:v:519:LEU:HD23	1.96	0.48
1:v:659:ASP:OD1	1:v:659:ASP:N	2.44	0.48
1:7:355:TYR:CE2	1:7:357:LEU:HB2	2.48	0.48
1:7:432:SER:OG	1:7:434:ASP:OD1	2.24	0.48
1:F:488:GLN:HA	1:F:509:THR:OG1	2.13	0.48
1:J:392:ARG:HG3	1:N:701:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:613:ASP:OD1	1:N:731:THR:HB	2.14	0.48
1:O:307:TRP:CE2	1:O:736:ARG:HG2	2.48	0.48
1:O:613:ASP:OD1	1:O:731:THR:HB	2.14	0.48
1:S:528:THR:HG23	1:S:538:PRO:HD2	1.95	0.48
1:W:426:SER:OG	1:W:426:SER:O	2.31	0.48
1:H:355:TYR:CE2	1:H:357:LEU:HB2	2.48	0.48
1:H:392:ARG:NH2	1:L:566:GLU:OE1	2.47	0.48
1:H:510:LYS:HG2	1:H:519:LEU:HD23	1.96	0.48
1:L:528:THR:HG23	1:L:538:PRO:HD2	1.95	0.48
1:b:510:LYS:HG2	1:b:519:LEU:HD23	1.96	0.48
1:I:392:ARG:NH2	1:M:566:GLU:OE1	2.47	0.48
1:M:510:LYS:HG2	1:M:519:LEU:HD23	1.96	0.48
1:M:528:THR:HG23	1:M:538:PRO:HD2	1.95	0.48
1:M:623:LYS:HB2	1:M:645:PRO:HG3	1.95	0.48
1:Q:307:TRP:CE2	1:Q:736:ARG:HG2	2.48	0.48
1:Q:613:ASP:OD1	1:Q:731:THR:HB	2.14	0.48
1:U:566:GLU:OE1	1:c:392:ARG:NH2	2.47	0.48
1:B:510:LYS:HG2	1:B:519:LEU:HD23	1.96	0.48
1:i:613:ASP:OD1	1:i:731:THR:HB	2.14	0.48
1:n:510:LYS:HG2	1:n:519:LEU:HD23	1.96	0.48
1:j:528:THR:HG23	1:j:538:PRO:HD2	1.95	0.48
1:t:613:ASP:OD1	1:t:731:THR:HB	2.14	0.48
1:t:623:LYS:HB2	1:t:645:PRO:HG3	1.95	0.48
1:f:355:TYR:CE2	1:f:357:LEU:HB2	2.48	0.48
1:5:613:ASP:OD1	1:5:731:THR:HB	2.14	0.48
1:v:355:TYR:CE2	1:v:357:LEU:HB2	2.48	0.48
1:0:307:TRP:CE2	1:0:736:ARG:HG2	2.48	0.48
1:0:623:LYS:HB2	1:0:645:PRO:HG3	1.95	0.48
1:r:623:LYS:HB2	1:r:645:PRO:HG3	1.95	0.48
1:w:355:TYR:CE2	1:w:357:LEU:HB2	2.48	0.48
1:F:613:ASP:OD1	1:F:731:THR:HB	2.14	0.48
1:R:613:ASP:OD1	1:R:731:THR:HB	2.14	0.48
1:V:355:TYR:CE2	1:V:357:LEU:HB2	2.48	0.48
1:W:355:TYR:CE2	1:W:357:LEU:HB2	2.48	0.48
1:W:613:ASP:OD1	1:W:731:THR:HB	2.14	0.48
1:a:613:ASP:OD1	1:a:731:THR:HB	2.14	0.48
1:a:623:LYS:HB2	1:a:645:PRO:HG3	1.95	0.48
1:P:528:THR:HG23	1:P:538:PRO:HD2	1.95	0.48
1:I:613:ASP:OD1	1:I:731:THR:HB	2.14	0.48
1:U:355:TYR:CE2	1:U:357:LEU:HB2	2.48	0.48
1:Y:510:LYS:HG2	1:Y:519:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:306:ASN:OD1	1:c:691:LYS:NZ	2.37	0.48
1:c:613:ASP:OD1	1:c:731:THR:HB	2.14	0.48
1:1:307:TRP:CE2	1:1:736:ARG:HG2	2.48	0.48
1:1:613:ASP:OD1	1:1:731:THR:HB	2.14	0.48
1:A:565:GLU:O	1:A:568:ILE:HG12	2.12	0.48
1:A:623:LYS:HB2	1:A:645:PRO:HG3	1.95	0.48
1:d:566:GLU:OE1	1:n:392:ARG:NH2	2.47	0.48
1:i:623:LYS:HB2	1:i:645:PRO:HG3	1.95	0.48
1:3:307:TRP:CE2	1:3:736:ARG:HG2	2.48	0.48
1:e:623:LYS:HB2	1:e:645:PRO:HG3	1.95	0.48
1:o:355:TYR:CE2	1:o:357:LEU:HB2	2.48	0.48
1:f:566:GLU:OE1	1:p:392:ARG:NH2	2.47	0.48
1:w:510:LYS:HG2	1:w:519:LEU:HD23	1.96	0.48
1:w:613:ASP:OD1	1:w:731:THR:HB	2.14	0.48
1:N:623:LYS:HB2	1:N:645:PRO:HG3	1.95	0.48
1:S:566:GLU:OE1	1:a:392:ARG:NH2	2.47	0.48
1:S:613:ASP:OD1	1:S:731:THR:HB	2.14	0.48
1:L:392:ARG:HG3	1:P:701:ILE:HD12	1.95	0.48
1:T:307:TRP:CE2	1:T:736:ARG:HG2	2.48	0.48
1:b:306:ASN:OD1	1:b:691:LYS:NZ	2.37	0.48
1:U:623:LYS:HB2	1:U:645:PRO:HG3	1.95	0.48
1:A:613:ASP:OD1	1:A:731:THR:HB	2.14	0.47
1:C:488:GLN:HA	1:C:509:THR:OG1	2.13	0.47
1:C:701:ILE:HD12	1:E:392:ARG:HG3	1.96	0.47
1:D:307:TRP:CE2	1:D:736:ARG:HG2	2.48	0.47
1:d:510:LYS:HG2	1:d:519:LEU:HD23	1.96	0.47
1:i:392:ARG:HG3	1:n:701:ILE:HD12	1.96	0.47
1:n:355:TYR:CE2	1:n:357:LEU:HB2	2.48	0.47
1:3:623:LYS:HB2	1:3:645:PRO:HG3	1.95	0.47
1:f:613:ASP:OD1	1:f:731:THR:HB	2.14	0.47
1:z:307:TRP:CE2	1:z:736:ARG:HG2	2.49	0.47
1:5:510:LYS:HG2	1:5:519:LEU:HD23	1.96	0.47
1:2:613:ASP:OD1	1:2:731:THR:HB	2.14	0.47
1:N:307:TRP:CE2	1:N:736:ARG:HG2	2.48	0.47
1:Z:307:TRP:CE2	1:Z:736:ARG:HG2	2.48	0.47
1:G:566:GLU:OE1	1:O:392:ARG:NH2	2.47	0.47
1:S:623:LYS:HB2	1:S:645:PRO:HG3	1.95	0.47
1:a:355:TYR:CE2	1:a:357:LEU:HB2	2.48	0.47
1:L:510:LYS:HG2	1:L:519:LEU:HD23	1.96	0.47
1:T:613:ASP:OD1	1:T:731:THR:HB	2.14	0.47
1:T:623:LYS:HB2	1:T:645:PRO:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:355:TYR:CE2	1:X:357:LEU:HB2	2.48	0.47
1:U:528:THR:HG23	1:U:538:PRO:HD2	1.95	0.47
1:U:701:ILE:HD12	1:c:392:ARG:HG3	1.96	0.47
1:Y:528:THR:HG23	1:Y:538:PRO:HD2	1.95	0.47
1:c:307:TRP:CE2	1:c:736:ARG:HG2	2.48	0.47
1:B:613:ASP:OD1	1:B:731:THR:HB	2.14	0.47
1:C:613:ASP:OD1	1:C:731:THR:HB	2.14	0.47
1:d:426:SER:OG	1:d:426:SER:O	2.31	0.47
1:n:488:GLN:HA	1:n:509:THR:OG1	2.13	0.47
1:e:566:GLU:OE1	1:o:392:ARG:NH2	2.47	0.47
1:y:355:TYR:CE2	1:y:357:LEU:HB2	2.48	0.47
1:g:528:THR:HG23	1:g:538:PRO:HD2	1.95	0.47
1:v:426:SER:OG	1:v:426:SER:O	2.31	0.47
1:0:613:ASP:OD1	1:0:731:THR:HB	2.14	0.47
1:h:510:LYS:HG2	1:h:519:LEU:HD23	1.96	0.47
1:h:697:TRP:CH2	1:N:369:PRO:HD3	2.49	0.47
1:J:510:LYS:HG2	1:J:519:LEU:HD23	1.96	0.47
1:K:613:ASP:OD1	1:K:731:THR:HB	2.14	0.47
1:S:701:ILE:HD12	1:a:392:ARG:HG3	1.96	0.47
1:L:613:ASP:OD1	1:L:731:THR:HB	2.14	0.47
1:P:510:LYS:HG2	1:P:519:LEU:HD23	1.96	0.47
1:P:613:ASP:OD1	1:P:731:THR:HB	2.14	0.47
1:T:392:ARG:NH2	1:X:566:GLU:OE1	2.46	0.47
1:b:613:ASP:OD1	1:b:731:THR:HB	2.14	0.47
1:U:307:TRP:CE2	1:U:736:ARG:HG2	2.48	0.47
1:B:258:TYR:OH	1:B:399:GLU:OE1	2.18	0.47
1:s:613:ASP:OD1	1:s:731:THR:HB	2.14	0.47
1:x:613:ASP:OD1	1:x:731:THR:HB	2.14	0.47
1:j:613:ASP:OD1	1:j:731:THR:HB	2.14	0.47
1:o:253:TYR:OH	1:o:375:ILE:O	2.26	0.47
1:k:307:TRP:CE2	1:k:736:ARG:HG2	2.49	0.47
1:p:510:LYS:HG2	1:p:519:LEU:HD23	1.96	0.47
1:u:613:ASP:OD1	1:u:731:THR:HB	2.14	0.47
1:g:566:GLU:OE1	1:q:392:ARG:NH2	2.47	0.47
1:l:307:TRP:CE2	1:l:736:ARG:HG2	2.49	0.47
1:l:613:ASP:OD1	1:l:731:THR:HB	2.14	0.47
1:0:510:LYS:HG2	1:0:519:LEU:HD23	1.96	0.47
1:r:510:LYS:HG2	1:r:519:LEU:HD23	1.96	0.47
1:F:392:ARG:NH2	1:J:566:GLU:OE1	2.47	0.47
1:N:432:SER:OG	1:N:434:ASP:OD1	2.24	0.47
1:N:510:LYS:HG2	1:N:519:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:701:ILE:HD12	1:Z:392:ARG:HG3	1.96	0.47
1:K:510:LYS:HG2	1:K:519:LEU:HD23	1.96	0.47
1:O:258:TYR:OH	1:O:399:GLU:OE1	2.18	0.47
1:W:510:LYS:HG2	1:W:519:LEU:HD23	1.96	0.47
1:a:510:LYS:HG2	1:a:519:LEU:HD23	1.96	0.47
1:P:432:SER:OG	1:P:434:ASP:OD1	2.24	0.47
1:Y:307:TRP:CE2	1:Y:736:ARG:HG2	2.48	0.47
1:Y:613:ASP:OD1	1:Y:731:THR:HB	2.14	0.47
1:A:510:LYS:HG2	1:A:519:LEU:HD23	1.96	0.47
1:C:392:ARG:NH2	1:D:566:GLU:OE1	2.46	0.47
1:C:659:ASP:OD1	1:C:659:ASP:N	2.44	0.47
1:d:613:ASP:OD1	1:d:731:THR:HB	2.14	0.47
1:t:701:ILE:HD12	1:4:392:ARG:HG3	1.96	0.47
1:l:510:LYS:HG2	1:l:519:LEU:HD23	1.96	0.47
1:6:528:THR:HG23	1:6:538:PRO:HD2	1.95	0.47
1:r:613:ASP:OD1	1:r:731:THR:HB	2.14	0.47
1:2:510:LYS:HG2	1:2:519:LEU:HD23	1.96	0.47
1:V:510:LYS:HG2	1:V:519:LEU:HD23	1.96	0.47
1:Z:510:LYS:HG2	1:Z:519:LEU:HD23	1.96	0.47
1:Z:613:ASP:OD1	1:Z:731:THR:HB	2.14	0.47
1:X:613:ASP:OD1	1:X:731:THR:HB	2.14	0.47
1:E:324:LYS:NZ	1:E:337:ASN:OD1	2.37	0.47
1:x:392:ARG:HG3	1:3:701:ILE:HD12	1.95	0.47
1:x:510:LYS:HG2	1:x:519:LEU:HD23	1.96	0.47
1:o:510:LYS:HG2	1:o:519:LEU:HD23	1.96	0.47
1:o:613:ASP:OD1	1:o:731:THR:HB	2.14	0.47
1:k:613:ASP:OD1	1:k:731:THR:HB	2.14	0.47
1:u:392:ARG:HG3	1:z:701:ILE:HD12	1.97	0.47
1:6:307:TRP:CE2	1:6:736:ARG:HG2	2.48	0.47
1:r:432:SER:OG	1:r:434:ASP:OD1	2.24	0.47
1:7:306:ASN:OD1	1:7:691:LYS:NZ	2.37	0.47
1:7:659:ASP:OD1	1:7:659:ASP:N	2.44	0.47
1:F:566:GLU:OE1	1:N:392:ARG:NH2	2.47	0.47
1:R:510:LYS:HG2	1:R:519:LEU:HD23	1.96	0.47
1:G:701:ILE:HD12	1:O:392:ARG:HG3	1.96	0.47
1:K:307:TRP:CE2	1:K:736:ARG:HG2	2.48	0.47
1:K:659:ASP:OD1	1:K:659:ASP:N	2.44	0.47
1:P:355:TYR:CE2	1:P:357:LEU:HB2	2.48	0.47
1:M:307:TRP:CE2	1:M:736:ARG:HG2	2.49	0.47
1:d:399:GLU:O	1:s:231:CYS:HB2	2.15	0.47
1:i:510:LYS:HG2	1:i:519:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:528:THR:HG23	1:i:538:PRO:HD2	1.95	0.47
1:s:566:GLU:OE1	1:3:392:ARG:NH2	2.47	0.47
1:e:528:THR:HG23	1:e:538:PRO:HD2	1.95	0.47
1:j:307:TRP:CE2	1:j:736:ARG:HG2	2.49	0.47
1:u:566:GLU:OE1	1:5:392:ARG:NH2	2.47	0.47
1:l:432:SER:OG	1:l:434:ASP:OD1	2.24	0.47
1:h:369:PRO:HD3	1:N:697:TRP:CH2	2.49	0.47
1:F:313:ARG:HG3	1:F:313:ARG:NH1	2.30	0.47
1:F:399:GLU:O	1:R:231:CYS:HB2	2.15	0.47
1:G:392:ARG:HG3	1:K:701:ILE:HD12	1.97	0.47
1:G:659:ASP:OD1	1:G:659:ASP:N	2.44	0.47
1:S:355:TYR:CE2	1:S:357:LEU:HB2	2.49	0.47
1:S:392:ARG:HG3	1:W:701:ILE:HD12	1.97	0.47
1:T:566:GLU:OE1	1:b:392:ARG:NH2	2.47	0.47
1:I:510:LYS:HG2	1:I:519:LEU:HD23	1.96	0.47
1:U:613:ASP:OD1	1:U:731:THR:HB	2.14	0.47
1:C:392:ARG:HG3	1:D:701:ILE:HD12	1.97	0.47
1:D:613:ASP:OD1	1:D:731:THR:HB	2.14	0.47
1:d:372:VAL:HG12	1:N:669:LEU:HD12	1.97	0.47
1:d:392:ARG:HG3	1:i:701:ILE:HD12	1.97	0.47
1:i:426:SER:OG	1:i:426:SER:O	2.31	0.47
1:x:659:ASP:OD1	1:x:659:ASP:N	2.44	0.47
1:4:306:ASN:OD1	1:4:691:LYS:NZ	2.37	0.47
1:f:392:ARG:NH2	1:k:566:GLU:OE1	2.47	0.47
1:z:510:LYS:HG2	1:z:519:LEU:HD23	1.96	0.47
1:g:392:ARG:HG3	1:l:701:ILE:HD12	1.97	0.47
1:q:510:LYS:HG2	1:q:519:LEU:HD23	1.96	0.47
1:v:392:ARG:HG3	1:0:701:ILE:HD12	1.97	0.47
1:v:701:ILE:HD12	1:6:392:ARG:HG3	1.96	0.47
1:0:253:TYR:OH	1:0:375:ILE:O	2.26	0.47
1:6:510:LYS:HG2	1:6:519:LEU:HD23	1.96	0.47
1:h:426:SER:OG	1:h:426:SER:O	2.31	0.47
1:h:566:GLU:OE1	1:r:392:ARG:NH2	2.47	0.47
1:h:613:ASP:OD1	1:h:731:THR:HB	2.14	0.47
1:m:613:ASP:OD1	1:m:731:THR:HB	2.14	0.47
1:w:701:ILE:HD12	1:7:392:ARG:HG3	1.96	0.47
1:7:324:LYS:NZ	1:7:337:ASN:OD1	2.37	0.47
1:F:307:TRP:CE2	1:F:736:ARG:HG2	2.48	0.47
1:F:701:ILE:HD12	1:N:392:ARG:HG3	1.96	0.47
1:V:426:SER:OG	1:V:426:SER:O	2.31	0.47
1:G:307:TRP:CE2	1:G:736:ARG:HG2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:306:ASN:OD1	1:S:691:LYS:NZ	2.37	0.47
1:W:659:ASP:OD1	1:W:659:ASP:N	2.44	0.47
1:H:566:GLU:OE1	1:P:392:ARG:NH2	2.47	0.47
1:P:306:ASN:OD1	1:P:691:LYS:NZ	2.37	0.47
1:T:313:ARG:HG3	1:T:313:ARG:NH1	2.30	0.47
1:T:432:SER:OG	1:T:434:ASP:OD1	2.24	0.47
1:X:510:LYS:HG2	1:X:519:LEU:HD23	1.96	0.47
1:I:399:GLU:O	1:U:231:CYS:HB2	2.15	0.47
1:1:697:TRP:CH2	1:n:369:PRO:HD3	2.50	0.47
1:A:392:ARG:HG3	1:B:701:ILE:HD12	1.95	0.47
1:n:324:LYS:NZ	1:n:337:ASN:OD1	2.38	0.47
1:3:426:SER:OG	1:3:426:SER:O	2.31	0.47
1:e:701:ILE:HD12	1:o:392:ARG:HG3	1.96	0.47
1:k:392:ARG:HG3	1:p:701:ILE:HD12	1.95	0.47
1:k:510:LYS:HG2	1:k:519:LEU:HD23	1.96	0.47
1:g:399:GLU:O	1:v:231:CYS:HB2	2.15	0.47
1:7:510:LYS:HG2	1:7:519:LEU:HD23	1.96	0.47
1:J:613:ASP:OD1	1:J:731:THR:HB	2.14	0.47
1:S:392:ARG:NH2	1:W:566:GLU:OE1	2.46	0.47
1:H:399:GLU:O	1:T:231:CYS:HB2	2.15	0.47
1:H:701:ILE:HD12	1:P:392:ARG:HG3	1.96	0.47
1:U:426:SER:OG	1:U:426:SER:O	2.31	0.47
1:U:510:LYS:HG2	1:U:519:LEU:HD23	1.96	0.47
1:1:399:GLU:O	1:C:231:CYS:HB2	2.15	0.47
1:D:510:LYS:HG2	1:D:519:LEU:HD23	1.96	0.47
1:f:392:ARG:HG3	1:k:701:ILE:HD12	1.97	0.47
1:u:510:LYS:HG2	1:u:519:LEU:HD23	1.96	0.47
1:w:659:ASP:OD1	1:w:659:ASP:N	2.44	0.47
1:7:613:ASP:OD1	1:7:731:THR:HB	2.14	0.47
1:R:659:ASP:N	1:R:659:ASP:OD1	2.44	0.47
1:V:399:GLU:O	1:G:231:CYS:HB2	2.15	0.47
1:V:432:SER:OG	1:V:434:ASP:OD1	2.24	0.47
1:a:426:SER:OG	1:a:426:SER:O	2.31	0.47
1:L:399:GLU:O	1:Q:231:CYS:HB2	2.15	0.47
1:T:510:LYS:HG2	1:T:519:LEU:HD23	1.96	0.47
1:E:613:ASP:OD1	1:E:731:THR:HB	2.14	0.47
1:d:469:GLY:HA3	1:n:552:ARG:HH22	1.80	0.47
1:n:313:ARG:HG3	1:n:313:ARG:NH1	2.30	0.47
1:s:701:ILE:HD12	1:3:392:ARG:HG3	1.96	0.47
1:3:613:ASP:OD1	1:3:731:THR:HB	2.14	0.47
1:e:399:GLU:O	1:t:231:CYS:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:510:LYS:HG2	1:t:519:LEU:HD23	1.96	0.47
1:t:659:ASP:OD1	1:t:659:ASP:N	2.44	0.47
1:4:613:ASP:OD1	1:4:731:THR:HB	2.14	0.47
1:f:399:GLU:O	1:u:231:CYS:HB2	2.15	0.47
1:f:701:ILE:HD12	1:p:392:ARG:HG3	1.96	0.47
1:g:613:ASP:OD1	1:g:731:THR:HB	2.14	0.47
1:w:392:ARG:HG3	1:2:701:ILE:HD12	1.97	0.47
1:O:306:ASN:OD1	1:O:691:LYS:NZ	2.37	0.47
1:O:313:ARG:HG3	1:O:313:ARG:NH1	2.30	0.47
1:a:285:PHE:CZ	1:a:318:LEU:HD21	2.51	0.47
1:Y:258:TYR:OH	1:Y:399:GLU:OE1	2.18	0.47
1:1:392:ARG:HG3	1:A:701:ILE:HD12	1.97	0.46
1:1:701:ILE:HD12	1:B:392:ARG:HG3	1.96	0.46
1:E:510:LYS:HG2	1:E:519:LEU:HD23	1.96	0.46
1:n:669:LEU:HD12	1:F:372:VAL:HG12	1.96	0.46
1:x:399:GLU:O	1:e:231:CYS:HB2	2.15	0.46
1:x:637:MET:HG3	1:3:479:ASN:ND2	2.31	0.46
1:t:313:ARG:HG3	1:t:313:ARG:NH1	2.30	0.46
1:h:399:GLU:O	1:w:231:CYS:HB2	2.15	0.46
1:F:510:LYS:HG2	1:F:519:LEU:HD23	1.96	0.46
1:G:399:GLU:O	1:S:231:CYS:HB2	2.15	0.46
1:O:510:LYS:HG2	1:O:519:LEU:HD23	1.96	0.46
1:a:306:ASN:OD1	1:a:691:LYS:NZ	2.37	0.46
1:H:313:ARG:HG3	1:H:313:ARG:NH1	2.30	0.46
1:I:566:GLU:OE1	1:Q:392:ARG:NH2	2.47	0.46
1:3:324:LYS:NZ	1:3:337:ASN:OD1	2.37	0.46
1:e:510:LYS:HG2	1:e:519:LEU:HD23	1.96	0.46
1:k:426:SER:OG	1:k:426:SER:O	2.31	0.46
1:u:426:SER:OG	1:u:426:SER:O	2.31	0.46
1:6:613:ASP:OD1	1:6:731:THR:HB	2.14	0.46
1:G:613:ASP:OD1	1:G:731:THR:HB	2.14	0.46
1:K:285:PHE:CZ	1:K:318:LEU:HD21	2.51	0.46
1:P:285:PHE:CZ	1:P:318:LEU:HD21	2.51	0.46
1:X:637:MET:HG3	1:b:479:ASN:ND2	2.31	0.46
1:i:285:PHE:CZ	1:i:318:LEU:HD21	2.51	0.46
1:j:285:PHE:CZ	1:j:318:LEU:HD21	2.51	0.46
1:t:285:PHE:CZ	1:t:318:LEU:HD21	2.51	0.46
1:k:399:GLU:O	1:q:231:CYS:HB2	2.15	0.46
1:z:530:LYS:HB3	1:z:574:VAL:HG21	1.98	0.46
1:g:697:TRP:CH2	1:W:369:PRO:HD3	2.51	0.46
1:g:701:ILE:HD12	1:q:392:ARG:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:285:PHE:CZ	1:q:318:LEU:HD21	2.51	0.46
1:v:285:PHE:CZ	1:v:318:LEU:HD21	2.50	0.46
1:v:613:ASP:OD1	1:v:731:THR:HB	2.14	0.46
1:0:530:LYS:HB3	1:0:574:VAL:HG21	1.98	0.46
1:0:637:MET:HG3	1:6:479:ASN:ND2	2.30	0.46
1:h:313:ARG:HG3	1:h:313:ARG:NH1	2.30	0.46
1:h:701:ILE:HD12	1:r:392:ARG:HG3	1.96	0.46
1:2:426:SER:OG	1:2:426:SER:O	2.31	0.46
1:F:285:PHE:CZ	1:F:318:LEU:HD21	2.51	0.46
1:R:285:PHE:CZ	1:R:318:LEU:HD21	2.51	0.46
1:b:285:PHE:CZ	1:b:318:LEU:HD21	2.51	0.46
1:I:313:ARG:HG3	1:I:313:ARG:NH1	2.30	0.46
1:I:701:ILE:HD12	1:Q:392:ARG:HG3	1.96	0.46
1:U:285:PHE:CZ	1:U:318:LEU:HD21	2.51	0.46
1:c:510:LYS:HG2	1:c:519:LEU:HD23	1.96	0.46
1:D:637:MET:HG3	1:E:479:ASN:ND2	2.30	0.46
1:E:285:PHE:CZ	1:E:318:LEU:HD21	2.51	0.46
1:n:258:TYR:OH	1:n:399:GLU:OE1	2.18	0.46
1:n:285:PHE:CZ	1:n:318:LEU:HD21	2.50	0.46
1:n:399:GLU:O	1:F:231:CYS:HB2	2.15	0.46
1:n:613:ASP:OD1	1:n:731:THR:HB	2.14	0.46
1:s:510:LYS:HG2	1:s:519:LEU:HD23	1.96	0.46
1:4:285:PHE:CZ	1:4:318:LEU:HD21	2.51	0.46
1:z:613:ASP:OD1	1:z:731:THR:HB	2.14	0.46
1:g:479:ASN:ND2	1:q:637:MET:HG3	2.31	0.46
1:w:530:LYS:HB3	1:w:574:VAL:HG21	1.98	0.46
1:2:637:MET:HG3	1:7:479:ASN:ND2	2.30	0.46
1:F:469:GLY:HA3	1:N:552:ARG:HH22	1.81	0.46
1:J:285:PHE:CZ	1:J:318:LEU:HD21	2.51	0.46
1:V:530:LYS:HB3	1:V:574:VAL:HG21	1.98	0.46
1:V:637:MET:HG3	1:Z:479:ASN:ND2	2.30	0.46
1:G:479:ASN:ND2	1:O:637:MET:HG3	2.31	0.46
1:G:510:LYS:HG2	1:G:519:LEU:HD23	1.96	0.46
1:K:630:ASN:HB3	1:O:608:VAL:HG12	1.98	0.46
1:S:432:SER:OG	1:S:434:ASP:OD1	2.24	0.46
1:W:552:ARG:HH22	1:a:469:GLY:HA3	1.80	0.46
1:a:530:LYS:HB3	1:a:574:VAL:HG21	1.98	0.46
1:T:392:ARG:HG3	1:X:701:ILE:HD12	1.97	0.46
1:X:426:SER:OG	1:X:426:SER:O	2.31	0.46
1:I:479:ASN:ND2	1:Q:637:MET:HG3	2.31	0.46
1:I:530:LYS:HB3	1:I:574:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:285:PHE:CZ	1:Y:318:LEU:HD21	2.51	0.46
1:Y:637:MET:HG3	1:c:479:ASN:ND2	2.30	0.46
1:c:285:PHE:CZ	1:c:318:LEU:HD21	2.51	0.46
1:1:530:LYS:HB3	1:1:574:VAL:HG21	1.98	0.46
1:A:659:ASP:OD1	1:A:659:ASP:N	2.44	0.46
1:B:285:PHE:CZ	1:B:318:LEU:HD21	2.51	0.46
1:C:469:GLY:HA3	1:E:552:ARG:HH22	1.81	0.46
1:e:258:TYR:OH	1:e:399:GLU:OE1	2.18	0.46
1:e:469:GLY:HA3	1:o:552:ARG:HH22	1.81	0.46
1:j:530:LYS:HB3	1:j:574:VAL:HG21	1.98	0.46
1:o:533:GLU:HB3	1:o:536:PHE:HD2	1.81	0.46
1:4:510:LYS:HG2	1:4:519:LEU:HD23	1.96	0.46
1:f:479:ASN:ND2	1:p:637:MET:HG3	2.31	0.46
1:k:285:PHE:CZ	1:k:318:LEU:HD21	2.51	0.46
1:p:285:PHE:CZ	1:p:318:LEU:HD21	2.51	0.46
1:p:530:LYS:HB3	1:p:574:VAL:HG21	1.98	0.46
1:5:285:PHE:CZ	1:5:318:LEU:HD21	2.51	0.46
1:l:630:ASN:HB3	1:q:608:VAL:HG12	1.98	0.46
1:0:533:GLU:HB3	1:0:536:PHE:HD2	1.81	0.46
1:0:552:ARG:HH22	1:6:469:GLY:HA3	1.81	0.46
1:6:285:PHE:CZ	1:6:318:LEU:HD21	2.51	0.46
1:6:533:GLU:HB3	1:6:536:PHE:HD2	1.81	0.46
1:m:399:GLU:O	1:c:231:CYS:HB2	2.16	0.46
1:r:306:ASN:OD1	1:r:691:LYS:NZ	2.37	0.46
1:w:313:ARG:HG3	1:w:313:ARG:NH1	2.30	0.46
1:w:469:GLY:HA3	1:7:552:ARG:HH22	1.81	0.46
1:2:285:PHE:CZ	1:2:318:LEU:HD21	2.51	0.46
1:Z:530:LYS:HB3	1:Z:574:VAL:HG21	1.98	0.46
1:G:530:LYS:HB3	1:G:574:VAL:HG21	1.98	0.46
1:K:231:CYS:HB2	1:a:399:GLU:O	2.16	0.46
1:O:530:LYS:HB3	1:O:574:VAL:HG21	1.98	0.46
1:S:510:LYS:HG2	1:S:519:LEU:HD23	1.96	0.46
1:a:258:TYR:OH	1:a:399:GLU:OE1	2.18	0.46
1:L:552:ARG:HH22	1:P:469:GLY:HA3	1.81	0.46
1:P:231:CYS:HB2	1:M:399:GLU:O	2.15	0.46
1:X:285:PHE:CZ	1:X:318:LEU:HD21	2.51	0.46
1:I:285:PHE:CZ	1:I:318:LEU:HD21	2.51	0.46
1:M:285:PHE:CZ	1:M:318:LEU:HD21	2.51	0.46
1:Q:285:PHE:CZ	1:Q:318:LEU:HD21	2.51	0.46
1:U:469:GLY:HA3	1:c:552:ARG:HH22	1.81	0.46
1:U:530:LYS:HB3	1:U:574:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:659:ASP:OD1	1:Y:659:ASP:N	2.44	0.46
1:A:231:CYS:HB2	1:E:399:GLU:O	2.16	0.46
1:A:399:GLU:O	1:6:231:CYS:HB2	2.16	0.46
1:C:630:ASN:HB3	1:D:608:VAL:HG12	1.98	0.46
1:D:285:PHE:CZ	1:D:318:LEU:HD21	2.51	0.46
1:d:533:GLU:HB3	1:d:536:PHE:HD2	1.81	0.46
1:i:231:CYS:HB2	1:3:399:GLU:O	2.16	0.46
1:3:285:PHE:CZ	1:3:318:LEU:HD21	2.51	0.46
1:e:630:ASN:HB3	1:j:608:VAL:HG12	1.98	0.46
1:o:285:PHE:CZ	1:o:318:LEU:HD21	2.51	0.46
1:k:530:LYS:HB3	1:k:574:VAL:HG21	1.98	0.46
1:u:285:PHE:CZ	1:u:318:LEU:HD21	2.50	0.46
1:u:701:ILE:HD12	1:5:392:ARG:HG3	1.96	0.46
1:z:552:ARG:HH22	1:5:469:GLY:HA3	1.80	0.46
1:q:533:GLU:HB3	1:q:536:PHE:HD2	1.81	0.46
1:m:630:ASN:HB3	1:r:608:VAL:HG12	1.98	0.46
1:r:533:GLU:HB3	1:r:536:PHE:HD2	1.81	0.46
1:N:533:GLU:HB3	1:N:536:PHE:HD2	1.81	0.46
1:R:392:ARG:HG3	1:V:701:ILE:HD12	1.97	0.46
1:Z:533:GLU:HB3	1:Z:536:PHE:HD2	1.81	0.46
1:P:530:LYS:HB3	1:P:574:VAL:HG21	1.98	0.46
1:T:530:LYS:HB3	1:T:574:VAL:HG21	1.98	0.46
1:T:701:ILE:HD12	1:b:392:ARG:HG3	1.96	0.46
1:X:533:GLU:HB3	1:X:536:PHE:HD2	1.81	0.46
1:M:231:CYS:HB2	1:c:399:GLU:O	2.16	0.46
1:M:530:LYS:HB3	1:M:574:VAL:HG21	1.98	0.46
1:Q:313:ARG:HG3	1:Q:313:ARG:NH1	2.30	0.46
1:A:285:PHE:CZ	1:A:318:LEU:HD21	2.51	0.46
1:B:530:LYS:HB3	1:B:574:VAL:HG21	1.98	0.46
1:C:285:PHE:CZ	1:C:318:LEU:HD21	2.50	0.46
1:C:566:GLU:OE1	1:E:392:ARG:NH2	2.47	0.46
1:D:313:ARG:HG3	1:D:313:ARG:NH1	2.30	0.46
1:E:313:ARG:HG3	1:E:313:ARG:NH1	2.30	0.46
1:d:285:PHE:CZ	1:d:318:LEU:HD21	2.51	0.46
1:s:469:GLY:HA3	1:3:552:ARG:HH22	1.81	0.46
1:x:231:CYS:HB2	1:U:399:GLU:O	2.16	0.46
1:e:313:ARG:HG3	1:e:313:ARG:NH1	2.30	0.46
1:j:231:CYS:HB2	1:4:399:GLU:O	2.16	0.46
1:t:428:ALA:O	1:t:735:THR:HA	2.16	0.46
1:t:469:GLY:HA3	1:4:552:ARG:HH22	1.81	0.46
1:t:630:ASN:HB3	1:y:608:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:530:LYS:HB3	1:f:574:VAL:HG21	1.98	0.46
1:k:231:CYS:HB2	1:5:399:GLU:O	2.16	0.46
1:u:533:GLU:HB3	1:u:536:PHE:HD2	1.81	0.46
1:u:630:ASN:HB3	1:z:608:VAL:HG12	1.98	0.46
1:z:637:MET:HG3	1:5:479:ASN:ND2	2.30	0.46
1:g:533:GLU:HB3	1:g:536:PHE:HD2	1.81	0.46
1:h:630:ASN:HB3	1:m:608:VAL:HG12	1.98	0.46
1:m:313:ARG:HG3	1:m:313:ARG:NH1	2.30	0.46
1:m:637:MET:HG3	1:r:479:ASN:ND2	2.31	0.46
1:r:231:CYS:HB2	1:Y:399:GLU:O	2.16	0.46
1:w:428:ALA:O	1:w:735:THR:HA	2.16	0.46
1:7:533:GLU:HB3	1:7:536:PHE:HD2	1.81	0.46
1:J:637:MET:HG3	1:N:479:ASN:ND2	2.31	0.46
1:R:469:GLY:HA3	1:Z:552:ARG:HH22	1.81	0.46
1:G:630:ASN:HB3	1:K:608:VAL:HG12	1.98	0.46
1:S:479:ASN:ND2	1:a:637:MET:HG3	2.31	0.46
1:W:285:PHE:CZ	1:W:318:LEU:HD21	2.51	0.46
1:a:533:GLU:HB3	1:a:536:PHE:HD2	1.81	0.46
1:H:533:GLU:HB3	1:H:536:PHE:HD2	1.81	0.46
1:L:630:ASN:HB3	1:P:608:VAL:HG12	1.98	0.46
1:P:659:ASP:N	1:P:659:ASP:OD1	2.44	0.46
1:Q:428:ALA:O	1:Q:735:THR:HA	2.16	0.46
1:c:533:GLU:HB3	1:c:536:PHE:HD2	1.81	0.46
1:1:369:PRO:HD3	1:n:697:TRP:CH2	2.49	0.46
1:1:469:GLY:HA3	1:B:552:ARG:HH22	1.81	0.46
1:A:428:ALA:O	1:A:735:THR:HA	2.16	0.46
1:d:428:ALA:O	1:d:735:THR:HA	2.16	0.46
1:d:701:ILE:HD12	1:n:392:ARG:HG3	1.96	0.46
1:s:479:ASN:ND2	1:3:637:MET:HG3	2.31	0.46
1:s:533:GLU:HB3	1:s:536:PHE:HD2	1.81	0.46
1:x:428:ALA:O	1:x:735:THR:HA	2.16	0.46
1:3:313:ARG:HG3	1:3:313:ARG:NH1	2.30	0.46
1:3:530:LYS:HB3	1:3:574:VAL:HG21	1.98	0.46
1:3:533:GLU:HB3	1:3:536:PHE:HD2	1.81	0.46
1:4:533:GLU:HB3	1:4:536:PHE:HD2	1.81	0.46
1:f:552:ARG:HH22	1:k:469:GLY:HA3	1.81	0.46
1:f:630:ASN:HB3	1:k:608:VAL:HG12	1.98	0.46
1:u:469:GLY:HA3	1:5:552:ARG:HH22	1.81	0.46
1:u:530:LYS:HB3	1:u:574:VAL:HG21	1.98	0.46
1:l:530:LYS:HB3	1:l:574:VAL:HG21	1.98	0.46
1:l:533:GLU:HB3	1:l:536:PHE:HD2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:552:ARG:HH22	1:q:469:GLY:HA3	1.81	0.46
1:v:530:LYS:HB3	1:v:574:VAL:HG21	1.98	0.46
1:v:533:GLU:HB3	1:v:536:PHE:HD2	1.81	0.46
1:h:285:PHE:CZ	1:h:318:LEU:HD21	2.51	0.46
1:h:306:ASN:OD1	1:h:691:LYS:NZ	2.37	0.46
1:h:479:ASN:ND2	1:r:637:MET:HG3	2.31	0.46
1:w:399:GLU:O	1:O:231:CYS:HB2	2.15	0.46
1:2:533:GLU:HB3	1:2:536:PHE:HD2	1.81	0.46
1:7:285:PHE:CZ	1:7:318:LEU:HD21	2.50	0.46
1:F:392:ARG:HG3	1:J:701:ILE:HD12	1.97	0.46
1:F:479:ASN:ND2	1:N:637:MET:HG3	2.31	0.46
1:J:530:LYS:HB3	1:J:574:VAL:HG21	1.98	0.46
1:Z:285:PHE:CZ	1:Z:318:LEU:HD21	2.51	0.46
1:S:533:GLU:HB3	1:S:536:PHE:HD2	1.81	0.46
1:W:313:ARG:HG3	1:W:313:ARG:NH1	2.30	0.46
1:H:285:PHE:CZ	1:H:318:LEU:HD21	2.51	0.46
1:H:479:ASN:ND2	1:P:637:MET:HG3	2.31	0.46
1:T:285:PHE:CZ	1:T:318:LEU:HD21	2.51	0.46
1:T:469:GLY:HA3	1:b:552:ARG:HH22	1.81	0.46
1:I:432:SER:OG	1:I:434:ASP:OD1	2.24	0.46
1:U:313:ARG:HG3	1:U:313:ARG:NH1	2.30	0.46
1:U:479:ASN:ND2	1:c:637:MET:HG3	2.31	0.46
1:B:428:ALA:O	1:B:735:THR:HA	2.16	0.46
1:C:399:GLU:O	1:o:231:CYS:HB2	2.15	0.46
1:C:479:ASN:ND2	1:E:637:MET:HG3	2.31	0.46
1:D:428:ALA:O	1:D:735:THR:HA	2.16	0.46
1:i:428:ALA:O	1:i:735:THR:HA	2.16	0.46
1:i:637:MET:HG3	1:n:479:ASN:ND2	2.31	0.46
1:t:426:SER:OG	1:t:426:SER:O	2.31	0.46
1:y:533:GLU:HB3	1:y:536:PHE:HD2	1.81	0.46
1:f:285:PHE:CZ	1:f:318:LEU:HD21	2.51	0.46
1:z:533:GLU:HB3	1:z:536:PHE:HD2	1.81	0.46
1:w:285:PHE:CZ	1:w:318:LEU:HD21	2.51	0.46
1:7:313:ARG:HG3	1:7:313:ARG:NH1	2.30	0.46
1:F:637:MET:HG3	1:J:479:ASN:ND2	2.31	0.46
1:J:231:CYS:HB2	1:Z:399:GLU:O	2.16	0.46
1:N:285:PHE:CZ	1:N:318:LEU:HD21	2.51	0.46
1:N:428:ALA:O	1:N:735:THR:HA	2.16	0.46
1:G:469:GLY:HA3	1:O:552:ARG:HH22	1.81	0.46
1:O:428:ALA:O	1:O:735:THR:HA	2.16	0.46
1:H:392:ARG:HG3	1:L:701:ILE:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:469:GLY:HA3	1:Q:552:ARG:HH22	1.81	0.46
1:M:630:ASN:HB3	1:Q:608:VAL:HG12	1.98	0.46
1:Q:510:LYS:HG2	1:Q:519:LEU:HD23	1.96	0.46
1:U:392:ARG:HG3	1:Y:701:ILE:HD12	1.97	0.46
1:Y:530:LYS:HB3	1:Y:574:VAL:HG21	1.98	0.46
1:c:428:ALA:O	1:c:735:THR:HA	2.16	0.46
1:l:285:PHE:CZ	1:l:318:LEU:HD21	2.51	0.46
1:l:552:ARG:HH22	1:A:469:GLY:HA3	1.81	0.46
1:A:288:ASN:O	1:A:619:PRO:HA	2.16	0.46
1:d:231:CYS:HB2	1:N:399:GLU:O	2.16	0.46
1:d:530:LYS:HB3	1:d:574:VAL:HG21	1.98	0.46
1:d:630:ASN:HB3	1:i:608:VAL:HG12	1.98	0.46
1:x:285:PHE:CZ	1:x:318:LEU:HD21	2.51	0.46
1:x:313:ARG:HG3	1:x:313:ARG:NH1	2.30	0.46
1:e:285:PHE:CZ	1:e:318:LEU:HD21	2.51	0.46
1:e:428:ALA:O	1:e:735:THR:HA	2.16	0.46
1:j:637:MET:HG3	1:o:479:ASN:ND2	2.31	0.46
1:t:392:ARG:HG3	1:y:701:ILE:HD12	1.97	0.46
1:y:369:PRO:HD3	1:I:697:TRP:CH2	2.51	0.46
1:y:613:ASP:OD1	1:y:731:THR:HB	2.14	0.46
1:u:479:ASN:ND2	1:5:637:MET:HG3	2.31	0.46
1:g:637:MET:HG3	1:l:479:ASN:ND2	2.31	0.46
1:l:288:ASN:O	1:l:619:PRO:HA	2.16	0.46
1:0:313:ARG:HG3	1:0:313:ARG:NH1	2.30	0.46
1:6:530:LYS:HB3	1:6:574:VAL:HG21	1.98	0.46
1:m:285:PHE:CZ	1:m:318:LEU:HD21	2.51	0.46
1:2:552:ARG:HH22	1:7:469:GLY:HA3	1.80	0.46
1:J:288:ASN:O	1:J:619:PRO:HA	2.16	0.46
1:J:630:ASN:HB3	1:N:608:VAL:HG12	1.98	0.46
1:R:428:ALA:O	1:R:735:THR:HA	2.16	0.46
1:R:530:LYS:HB3	1:R:574:VAL:HG21	1.98	0.46
1:V:613:ASP:OD1	1:V:731:THR:HB	2.14	0.46
1:W:530:LYS:HB3	1:W:574:VAL:HG21	1.98	0.46
1:W:552:ARG:NH2	1:a:442:ASP:OD1	2.49	0.46
1:H:637:MET:HG3	1:L:479:ASN:ND2	2.31	0.46
1:L:637:MET:HG3	1:P:479:ASN:ND2	2.31	0.46
1:T:533:GLU:HB3	1:T:536:PHE:HD2	1.81	0.46
1:I:392:ARG:HG3	1:M:701:ILE:HD12	1.97	0.46
1:M:428:ALA:O	1:M:735:THR:HA	2.16	0.46
1:M:637:MET:HG3	1:Q:479:ASN:ND2	2.31	0.46
1:Y:552:ARG:HH22	1:c:469:GLY:HA3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:630:ASN:HB3	1:B:608:VAL:HG12	1.98	0.45
1:s:285:PHE:CZ	1:s:318:LEU:HD21	2.50	0.45
1:3:428:ALA:O	1:3:735:THR:HA	2.16	0.45
1:e:392:ARG:HG3	1:j:701:ILE:HD12	1.97	0.45
1:e:552:ARG:HH22	1:j:469:GLY:HA3	1.81	0.45
1:o:288:ASN:O	1:o:619:PRO:HA	2.17	0.45
1:y:313:ARG:HG3	1:y:313:ARG:NH1	2.30	0.45
1:y:530:LYS:HB3	1:y:574:VAL:HG21	1.98	0.45
1:y:552:ARG:HH22	1:4:469:GLY:HA3	1.81	0.45
1:f:288:ASN:O	1:f:619:PRO:HA	2.17	0.45
1:p:231:CYS:HB2	1:l:399:GLU:O	2.15	0.45
1:p:428:ALA:O	1:p:735:THR:HA	2.16	0.45
1:z:285:PHE:CZ	1:z:318:LEU:HD21	2.51	0.45
1:g:285:PHE:CZ	1:g:318:LEU:HD21	2.51	0.45
1:g:335:ILE:HG21	1:S:673:ILE:HD11	1.98	0.45
1:l:426:SER:OG	1:l:426:SER:O	2.31	0.45
1:v:288:ASN:O	1:v:619:PRO:HA	2.17	0.45
1:v:399:GLU:O	1:V:231:CYS:HB2	2.16	0.45
1:v:469:GLY:HA3	1:6:552:ARG:HH22	1.81	0.45
1:0:552:ARG:NH2	1:6:442:ASP:OD1	2.49	0.45
1:6:288:ASN:O	1:6:619:PRO:HA	2.16	0.45
1:h:288:ASN:O	1:h:619:PRO:HA	2.16	0.45
1:7:428:ALA:O	1:7:735:THR:HA	2.16	0.45
1:F:533:GLU:HB3	1:F:536:PHE:HD2	1.81	0.45
1:R:533:GLU:HB3	1:R:536:PHE:HD2	1.81	0.45
1:G:552:ARG:HH22	1:K:469:GLY:HA3	1.81	0.45
1:S:285:PHE:CZ	1:S:318:LEU:HD21	2.51	0.45
1:L:231:CYS:HB2	1:b:399:GLU:O	2.16	0.45
1:X:428:ALA:O	1:X:735:THR:HA	2.16	0.45
1:X:552:ARG:NH2	1:b:442:ASP:OD1	2.49	0.45
1:b:533:GLU:HB3	1:b:536:PHE:HD2	1.81	0.45
1:I:533:GLU:HB3	1:I:536:PHE:HD2	1.81	0.45
1:M:533:GLU:HB3	1:M:536:PHE:HD2	1.81	0.45
1:M:552:ARG:HH22	1:Q:469:GLY:HA3	1.81	0.45
1:1:313:ARG:HG3	1:1:313:ARG:NH1	2.30	0.45
1:D:530:LYS:HB3	1:D:574:VAL:HG21	1.98	0.45
1:d:288:ASN:O	1:d:619:PRO:HA	2.16	0.45
1:s:392:ARG:HG3	1:x:701:ILE:HD12	1.97	0.45
1:o:530:LYS:HB3	1:o:574:VAL:HG21	1.98	0.45
1:y:637:MET:HG3	1:4:479:ASN:ND2	2.30	0.45
1:y:697:TRP:CH2	1:I:369:PRO:HD3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:469:GLY:HA3	1:p:552:ARG:HH22	1.80	0.45
1:u:428:ALA:O	1:u:735:THR:HA	2.16	0.45
1:z:428:ALA:O	1:z:735:THR:HA	2.16	0.45
1:5:426:SER:OG	1:5:426:SER:O	2.31	0.45
1:0:285:PHE:CZ	1:0:318:LEU:HD21	2.51	0.45
1:0:288:ASN:O	1:0:619:PRO:HA	2.17	0.45
1:h:533:GLU:HB3	1:h:536:PHE:HD2	1.81	0.45
1:h:637:MET:HG3	1:m:479:ASN:ND2	2.31	0.45
1:m:428:ALA:O	1:m:735:THR:HA	2.16	0.45
1:w:608:VAL:HG12	1:7:630:ASN:HB3	1.98	0.45
1:J:533:GLU:HB3	1:J:536:PHE:HD2	1.81	0.45
1:V:285:PHE:CZ	1:V:318:LEU:HD21	2.51	0.45
1:K:552:ARG:HH22	1:O:469:GLY:HA3	1.81	0.45
1:W:288:ASN:O	1:W:619:PRO:HA	2.17	0.45
1:W:533:GLU:HB3	1:W:536:PHE:HD2	1.81	0.45
1:H:630:ASN:HB3	1:L:608:VAL:HG12	1.98	0.45
1:X:630:ASN:HB3	1:b:608:VAL:HG12	1.98	0.45
1:b:288:ASN:O	1:b:619:PRO:HA	2.16	0.45
1:b:426:SER:OG	1:b:426:SER:O	2.31	0.45
1:Q:533:GLU:HB3	1:Q:536:PHE:HD2	1.81	0.45
1:U:608:VAL:HG12	1:c:630:ASN:HB3	1.98	0.45
1:1:288:ASN:O	1:1:619:PRO:HA	2.17	0.45
1:1:479:ASN:ND2	1:B:637:MET:HG3	2.31	0.45
1:1:630:ASN:HB3	1:A:608:VAL:HG12	1.98	0.45
1:A:637:MET:HG3	1:B:479:ASN:ND2	2.31	0.45
1:B:533:GLU:HB3	1:B:536:PHE:HD2	1.81	0.45
1:C:530:LYS:HB3	1:C:574:VAL:HG21	1.98	0.45
1:E:288:ASN:O	1:E:619:PRO:HA	2.17	0.45
1:s:288:ASN:O	1:s:619:PRO:HA	2.17	0.45
1:s:608:VAL:HG12	1:3:630:ASN:HB3	1.98	0.45
1:x:552:ARG:HH22	1:3:469:GLY:HA3	1.81	0.45
1:j:552:ARG:HH22	1:o:469:GLY:HA3	1.81	0.45
1:t:479:ASN:ND2	1:4:637:MET:HG3	2.31	0.45
1:y:399:GLU:O	1:z:231:CYS:HB2	2.17	0.45
1:y:428:ALA:O	1:y:735:THR:HA	2.16	0.45
1:k:533:GLU:HB3	1:k:536:PHE:HD2	1.81	0.45
1:p:288:ASN:O	1:p:619:PRO:HA	2.17	0.45
1:u:288:ASN:O	1:u:619:PRO:HA	2.17	0.45
1:5:530:LYS:HB3	1:5:574:VAL:HG21	1.98	0.45
1:m:288:ASN:O	1:m:619:PRO:HA	2.17	0.45
1:m:552:ARG:HH22	1:r:469:GLY:HA3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:530:LYS:HB3	1:2:574:VAL:HG21	1.98	0.45
1:F:552:ARG:HH22	1:J:469:GLY:HA3	1.81	0.45
1:G:285:PHE:CZ	1:G:318:LEU:HD21	2.51	0.45
1:G:432:SER:OG	1:G:434:ASP:OD1	2.24	0.45
1:L:288:ASN:O	1:L:619:PRO:HA	2.17	0.45
1:L:313:ARG:HG3	1:L:313:ARG:NH1	2.30	0.45
1:T:630:ASN:HB3	1:X:608:VAL:HG12	1.98	0.45
1:Q:306:ASN:OD1	1:Q:691:LYS:NZ	2.37	0.45
1:Q:530:LYS:HB3	1:Q:574:VAL:HG21	1.98	0.45
1:U:533:GLU:HB3	1:U:536:PHE:HD2	1.81	0.45
1:Y:552:ARG:NH2	1:c:442:ASP:OD1	2.49	0.45
1:c:288:ASN:O	1:c:619:PRO:HA	2.16	0.45
1:1:442:ASP:OD1	1:B:552:ARG:NH2	2.50	0.45
1:1:608:VAL:HG12	1:B:630:ASN:HB3	1.99	0.45
1:C:428:ALA:O	1:C:735:THR:HA	2.16	0.45
1:C:608:VAL:HG12	1:E:630:ASN:HB3	1.98	0.45
1:D:552:ARG:NH2	1:E:442:ASP:OD1	2.49	0.45
1:E:533:GLU:HB3	1:E:536:PHE:HD2	1.81	0.45
1:i:552:ARG:HH22	1:n:469:GLY:HA3	1.81	0.45
1:s:428:ALA:O	1:s:735:THR:HA	2.16	0.45
1:s:554:ASN:O	1:s:554:ASN:ND2	2.50	0.45
1:x:372:VAL:HG12	1:U:669:LEU:HD12	1.99	0.45
1:j:554:ASN:O	1:j:554:ASN:ND2	2.50	0.45
1:j:630:ASN:HB3	1:o:608:VAL:HG12	1.98	0.45
1:t:533:GLU:HB3	1:t:536:PHE:HD2	1.81	0.45
1:t:554:ASN:ND2	1:t:554:ASN:O	2.50	0.45
1:k:428:ALA:O	1:k:735:THR:HA	2.16	0.45
1:k:552:ARG:HH22	1:p:469:GLY:HA3	1.81	0.45
1:z:288:ASN:O	1:z:619:PRO:HA	2.17	0.45
1:g:288:ASN:O	1:g:619:PRO:HA	2.17	0.45
1:g:530:LYS:HB3	1:g:574:VAL:HG21	1.98	0.45
1:l:231:CYS:HB2	1:6:399:GLU:O	2.16	0.45
1:q:530:LYS:HB3	1:q:574:VAL:HG21	1.98	0.45
1:q:659:ASP:OD1	1:q:659:ASP:N	2.44	0.45
1:h:442:ASP:OD1	1:r:552:ARG:NH2	2.50	0.45
1:m:231:CYS:HB2	1:7:399:GLU:O	2.16	0.45
1:r:399:GLU:O	1:N:231:CYS:HB2	2.16	0.45
1:r:530:LYS:HB3	1:r:574:VAL:HG21	1.98	0.45
1:2:630:ASN:HB3	1:7:608:VAL:HG12	1.98	0.45
1:K:288:ASN:O	1:K:619:PRO:HA	2.16	0.45
1:K:533:GLU:HB3	1:K:536:PHE:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:637:MET:HG3	1:O:479:ASN:ND2	2.31	0.45
1:S:469:GLY:HA3	1:a:552:ARG:HH22	1.81	0.45
1:a:428:ALA:O	1:a:735:THR:HA	2.16	0.45
1:L:285:PHE:CZ	1:L:318:LEU:HD21	2.51	0.45
1:T:479:ASN:ND2	1:b:637:MET:HG3	2.31	0.45
1:T:637:MET:HG3	1:X:479:ASN:ND2	2.32	0.45
1:b:313:ARG:HG3	1:b:313:ARG:NH1	2.30	0.45
1:Y:630:ASN:HB3	1:c:608:VAL:HG12	1.98	0.45
1:I:637:MET:HG3	1:A:479:ASN:ND2	2.31	0.45
1:B:369:PRO:HD3	1:6:697:TRP:CH2	2.51	0.45
1:d:552:ARG:HH22	1:i:469:GLY:HA3	1.81	0.45
1:s:530:LYS:HB3	1:s:574:VAL:HG21	1.98	0.45
1:x:288:ASN:O	1:x:619:PRO:HA	2.17	0.45
1:x:530:LYS:HB3	1:x:574:VAL:HG21	1.98	0.45
1:e:288:ASN:O	1:e:619:PRO:HA	2.17	0.45
1:e:479:ASN:ND2	1:o:637:MET:HG3	2.31	0.45
1:e:608:VAL:HG12	1:o:630:ASN:HB3	1.99	0.45
1:e:637:MET:HG3	1:j:479:ASN:ND2	2.31	0.45
1:y:285:PHE:CZ	1:y:318:LEU:HD21	2.51	0.45
1:4:428:ALA:O	1:4:735:THR:HA	2.16	0.45
1:f:533:GLU:HB3	1:f:536:PHE:HD2	1.81	0.45
1:f:608:VAL:HG12	1:p:630:ASN:HB3	1.99	0.45
1:k:554:ASN:O	1:k:554:ASN:ND2	2.50	0.45
1:k:637:MET:HG3	1:p:479:ASN:ND2	2.31	0.45
1:p:533:GLU:HB3	1:p:536:PHE:HD2	1.81	0.45
1:u:554:ASN:O	1:u:554:ASN:ND2	2.50	0.45
1:g:428:ALA:O	1:g:735:THR:HA	2.16	0.45
1:g:630:ASN:HB3	1:l:608:VAL:HG12	1.98	0.45
1:q:399:GLU:O	1:W:231:CYS:HB2	2.17	0.45
1:v:630:ASN:HB3	1:0:608:VAL:HG12	1.98	0.45
1:h:469:GLY:HA3	1:r:552:ARG:HH22	1.81	0.45
1:m:554:ASN:O	1:m:554:ASN:ND2	2.50	0.45
1:r:285:PHE:CZ	1:r:318:LEU:HD21	2.51	0.45
1:w:426:SER:OG	1:w:426:SER:O	2.31	0.45
1:w:554:ASN:O	1:w:554:ASN:ND2	2.50	0.45
1:F:288:ASN:O	1:F:619:PRO:HA	2.17	0.45
1:J:552:ARG:HH22	1:N:469:GLY:HA3	1.81	0.45
1:V:630:ASN:HB3	1:Z:608:VAL:HG12	1.98	0.45
1:Z:288:ASN:O	1:Z:619:PRO:HA	2.17	0.45
1:G:554:ASN:O	1:G:554:ASN:ND2	2.50	0.45
1:K:313:ARG:HG3	1:K:313:ARG:NH1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:554:ASN:ND2	1:K:554:ASN:O	2.50	0.45
1:S:630:ASN:HB3	1:W:608:VAL:HG12	1.98	0.45
1:H:428:ALA:O	1:H:735:THR:HA	2.16	0.45
1:H:469:GLY:HA3	1:P:552:ARG:HH22	1.80	0.45
1:H:552:ARG:HH22	1:L:469:GLY:HA3	1.81	0.45
1:P:428:ALA:O	1:P:735:THR:HA	2.16	0.45
1:X:288:ASN:O	1:X:619:PRO:HA	2.17	0.45
1:X:530:LYS:HB3	1:X:574:VAL:HG21	1.98	0.45
1:I:288:ASN:O	1:I:619:PRO:HA	2.17	0.45
1:I:428:ALA:O	1:I:735:THR:HA	2.16	0.45
1:Y:428:ALA:O	1:Y:735:THR:HA	2.16	0.45
1:Y:554:ASN:ND2	1:Y:554:ASN:O	2.50	0.45
1:C:637:MET:HG3	1:D:479:ASN:ND2	2.32	0.45
1:E:428:ALA:O	1:E:735:THR:HA	2.16	0.45
1:d:479:ASN:ND2	1:n:637:MET:HG3	2.31	0.45
1:i:554:ASN:ND2	1:i:554:ASN:O	2.50	0.45
1:i:630:ASN:HB3	1:n:608:VAL:HG12	1.98	0.45
1:n:530:LYS:HB3	1:n:574:VAL:HG21	1.98	0.45
1:s:630:ASN:HB3	1:x:608:VAL:HG12	1.98	0.45
1:e:530:LYS:HB3	1:e:574:VAL:HG21	1.98	0.45
1:t:530:LYS:HB3	1:t:574:VAL:HG21	1.98	0.45
1:f:428:ALA:O	1:f:735:THR:HA	2.16	0.45
1:u:637:MET:HG3	1:z:479:ASN:ND2	2.32	0.45
1:z:432:SER:OG	1:z:434:ASP:OD1	2.24	0.45
1:z:554:ASN:O	1:z:554:ASN:ND2	2.50	0.45
1:g:442:ASP:OD1	1:q:552:ARG:NH2	2.50	0.45
1:v:554:ASN:ND2	1:v:554:ASN:O	2.50	0.45
1:w:630:ASN:HB3	1:2:608:VAL:HG12	1.98	0.45
1:7:426:SER:OG	1:7:426:SER:O	2.31	0.45
1:F:630:ASN:HB3	1:J:608:VAL:HG12	1.98	0.45
1:J:313:ARG:HG3	1:J:313:ARG:NH1	2.30	0.45
1:J:552:ARG:NH2	1:N:442:ASP:OD1	2.50	0.45
1:N:288:ASN:O	1:N:619:PRO:HA	2.17	0.45
1:R:288:ASN:O	1:R:619:PRO:HA	2.17	0.45
1:Z:231:CYS:HB2	1:O:399:GLU:O	2.17	0.45
1:Z:554:ASN:O	1:Z:554:ASN:ND2	2.50	0.45
1:K:530:LYS:HB3	1:K:574:VAL:HG21	1.98	0.45
1:S:530:LYS:HB3	1:S:574:VAL:HG21	1.98	0.45
1:S:608:VAL:HG12	1:a:630:ASN:HB3	1.98	0.45
1:W:637:MET:HG3	1:a:479:ASN:ND2	2.30	0.45
1:H:288:ASN:O	1:H:619:PRO:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:552:ARG:NH2	1:P:442:ASP:OD1	2.50	0.45
1:X:554:ASN:O	1:X:554:ASN:ND2	2.50	0.45
1:Q:554:ASN:ND2	1:Q:554:ASN:O	2.50	0.45
1:U:630:ASN:HB3	1:Y:608:VAL:HG12	1.98	0.45
1:B:231:CYS:HB2	1:O:399:GLU:O	2.16	0.45
1:B:399:GLU:O	1:n:231:CYS:HB2	2.16	0.45
1:j:533:GLU:HB3	1:j:536:PHE:HD2	1.81	0.45
1:j:552:ARG:NH2	1:o:442:ASP:OD1	2.50	0.45
1:f:442:ASP:OD1	1:p:552:ARG:NH2	2.50	0.45
1:5:288:ASN:O	1:5:619:PRO:HA	2.16	0.45
1:g:552:ARG:HH22	1:l:469:GLY:HA3	1.81	0.45
1:q:428:ALA:O	1:q:735:THR:HA	2.16	0.45
1:q:554:ASN:ND2	1:q:554:ASN:O	2.50	0.45
1:v:608:VAL:HG12	1:6:630:ASN:HB3	1.98	0.45
1:0:554:ASN:ND2	1:0:554:ASN:O	2.50	0.45
1:6:428:ALA:O	1:6:735:THR:HA	2.16	0.45
1:w:288:ASN:O	1:w:619:PRO:HA	2.17	0.45
1:J:324:LYS:NZ	1:J:337:ASN:OD1	2.37	0.45
1:R:554:ASN:O	1:R:554:ASN:ND2	2.50	0.45
1:V:533:GLU:HB3	1:V:536:PHE:HD2	1.81	0.45
1:O:288:ASN:O	1:O:619:PRO:HA	2.17	0.45
1:S:552:ARG:HH22	1:W:469:GLY:HA3	1.82	0.45
1:W:630:ASN:HB3	1:a:608:VAL:HG12	1.98	0.45
1:P:288:ASN:O	1:P:619:PRO:HA	2.17	0.45
1:P:533:GLU:HB3	1:P:536:PHE:HD2	1.81	0.45
1:T:288:ASN:O	1:T:619:PRO:HA	2.17	0.45
1:T:428:ALA:O	1:T:735:THR:HA	2.16	0.45
1:T:578:GLU:H	1:T:578:GLU:HG3	1.60	0.45
1:b:428:ALA:O	1:b:735:THR:HA	2.16	0.45
1:M:554:ASN:O	1:M:554:ASN:ND2	2.50	0.45
1:1:533:GLU:HB3	1:1:536:PHE:HD2	1.81	0.45
1:A:530:LYS:HB3	1:A:574:VAL:HG21	1.98	0.45
1:A:552:ARG:HH22	1:B:469:GLY:HA3	1.81	0.45
1:B:554:ASN:O	1:B:554:ASN:ND2	2.50	0.45
1:D:533:GLU:HB3	1:D:536:PHE:HD2	1.81	0.45
1:D:552:ARG:HH22	1:E:469:GLY:HA3	1.81	0.45
1:D:554:ASN:O	1:D:554:ASN:ND2	2.50	0.45
1:i:288:ASN:O	1:i:619:PRO:HA	2.17	0.45
1:x:552:ARG:NH2	1:3:442:ASP:OD1	2.49	0.45
1:4:578:GLU:H	1:4:578:GLU:HG3	1.60	0.45
1:k:552:ARG:NH2	1:p:442:ASP:OD1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:554:ASN:O	1:5:554:ASN:ND2	2.50	0.45
1:g:608:VAL:HG12	1:q:630:ASN:HB3	1.99	0.45
1:l:285:PHE:CZ	1:l:318:LEU:HD21	2.51	0.45
1:l:428:ALA:O	1:l:735:THR:HA	2.16	0.45
1:r:288:ASN:O	1:r:619:PRO:HA	2.17	0.45
1:r:369:PRO:HD3	1:c:697:TRP:CH2	2.51	0.45
1:r:428:ALA:O	1:r:735:THR:HA	2.16	0.45
1:w:479:ASN:ND2	1:7:637:MET:HG3	2.31	0.45
1:w:533:GLU:HB3	1:w:536:PHE:HD2	1.81	0.45
1:2:554:ASN:O	1:2:554:ASN:ND2	2.50	0.45
1:N:313:ARG:HG3	1:N:313:ARG:NH1	2.30	0.45
1:R:608:VAL:HG12	1:Z:630:ASN:HB3	1.98	0.45
1:G:578:GLU:H	1:G:578:GLU:HG3	1.60	0.45
1:O:285:PHE:CZ	1:O:318:LEU:HD21	2.51	0.45
1:W:428:ALA:O	1:W:735:THR:HA	2.16	0.45
1:a:288:ASN:O	1:a:619:PRO:HA	2.16	0.45
1:I:442:ASP:OD1	1:Q:552:ARG:NH2	2.50	0.45
1:Y:561:MET:HG2	1:Y:728:PRO:HD3	1.99	0.45
1:c:554:ASN:O	1:c:554:ASN:ND2	2.50	0.45
1:1:428:ALA:O	1:1:735:THR:HA	2.16	0.45
1:1:554:ASN:O	1:1:554:ASN:ND2	2.50	0.45
1:A:533:GLU:HB3	1:A:536:PHE:HD2	1.81	0.45
1:d:253:TYR:OH	1:d:375:ILE:O	2.26	0.45
1:d:552:ARG:NH2	1:i:442:ASP:OD1	2.50	0.45
1:d:637:MET:HG3	1:i:479:ASN:ND2	2.31	0.45
1:n:561:MET:HG2	1:n:728:PRO:HD3	1.99	0.45
1:x:432:SER:OG	1:x:434:ASP:OD1	2.24	0.45
1:3:554:ASN:ND2	1:3:554:ASN:O	2.50	0.45
1:3:561:MET:HG2	1:3:728:PRO:HD3	1.99	0.45
1:e:533:GLU:HB3	1:e:536:PHE:HD2	1.81	0.45
1:f:437:MET:HE3	1:f:437:MET:HB3	1.93	0.45
1:k:630:ASN:HB3	1:p:608:VAL:HG12	1.98	0.45
1:z:426:SER:OG	1:z:426:SER:O	2.31	0.45
1:g:469:GLY:HA3	1:q:552:ARG:HH22	1.80	0.45
1:g:554:ASN:O	1:g:554:ASN:ND2	2.50	0.45
1:l:637:MET:HG3	1:q:479:ASN:ND2	2.31	0.45
1:q:313:ARG:HG3	1:q:313:ARG:NH1	2.30	0.45
1:v:552:ARG:HH22	1:0:469:GLY:HA3	1.82	0.45
1:h:392:ARG:HG3	1:m:701:ILE:HD12	1.97	0.45
1:h:428:ALA:O	1:h:735:THR:HA	2.16	0.45
1:h:552:ARG:HH22	1:m:469:GLY:HA3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:530:LYS:HB3	1:m:574:VAL:HG21	1.98	0.45
1:w:442:ASP:OD1	1:7:552:ARG:NH2	2.50	0.45
1:2:399:GLU:O	1:H:231:CYS:HB2	2.17	0.45
1:7:288:ASN:O	1:7:619:PRO:HA	2.16	0.45
1:7:530:LYS:HB3	1:7:574:VAL:HG21	1.98	0.45
1:N:530:LYS:HB3	1:N:574:VAL:HG21	1.98	0.45
1:V:428:ALA:O	1:V:735:THR:HA	2.16	0.45
1:V:552:ARG:NH2	1:Z:442:ASP:OD1	2.49	0.45
1:G:552:ARG:NH2	1:K:442:ASP:OD1	2.50	0.45
1:K:428:ALA:O	1:K:735:THR:HA	2.16	0.45
1:K:561:MET:HG2	1:K:728:PRO:HD3	1.99	0.45
1:O:554:ASN:O	1:O:554:ASN:ND2	2.50	0.45
1:S:428:ALA:O	1:S:735:THR:HA	2.16	0.45
1:H:530:LYS:HB3	1:H:574:VAL:HG21	1.98	0.45
1:H:554:ASN:O	1:H:554:ASN:ND2	2.50	0.45
1:L:530:LYS:HB3	1:L:574:VAL:HG21	1.98	0.45
1:P:554:ASN:O	1:P:554:ASN:ND2	2.50	0.45
1:T:608:VAL:HG12	1:b:630:ASN:HB3	1.98	0.45
1:X:561:MET:HG2	1:X:728:PRO:HD3	1.99	0.45
1:b:530:LYS:HB3	1:b:574:VAL:HG21	1.98	0.45
1:I:552:ARG:NH2	1:M:442:ASP:OD1	2.50	0.45
1:I:552:ARG:HH22	1:M:469:GLY:HA3	1.81	0.45
1:I:561:MET:HG2	1:I:728:PRO:HD3	1.99	0.45
1:C:533:GLU:HB3	1:C:536:PHE:HD2	1.81	0.45
1:E:335:ILE:HG21	1:p:673:ILE:HD11	1.98	0.45
1:d:313:ARG:HG3	1:d:313:ARG:NH1	2.30	0.45
1:d:554:ASN:O	1:d:554:ASN:ND2	2.50	0.45
1:d:561:MET:HG2	1:d:728:PRO:HD3	1.99	0.45
1:i:533:GLU:HB3	1:i:536:PHE:HD2	1.81	0.45
1:n:554:ASN:ND2	1:n:554:ASN:O	2.50	0.45
1:s:432:SER:OG	1:s:434:ASP:OD1	2.24	0.45
1:x:630:ASN:HB3	1:3:608:VAL:HG12	1.98	0.45
1:t:608:VAL:HG12	1:4:630:ASN:HB3	1.98	0.45
1:t:637:MET:HG3	1:y:479:ASN:ND2	2.32	0.45
1:4:554:ASN:O	1:4:554:ASN:ND2	2.50	0.45
1:4:604:LEU:O	1:4:607:MET:HB2	2.18	0.45
1:k:561:MET:HG2	1:k:728:PRO:HD3	1.99	0.45
1:5:335:ILE:HG21	1:X:673:ILE:HD11	1.99	0.45
1:g:369:PRO:HD3	1:W:697:TRP:CH2	2.51	0.45
1:q:561:MET:HG2	1:q:728:PRO:HD3	1.99	0.45
1:q:673:ILE:HD11	1:W:335:ILE:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:428:ALA:O	1:v:735:THR:HA	2.16	0.45
1:v:637:MET:HG3	1:0:479:ASN:ND2	2.32	0.45
1:h:554:ASN:O	1:h:554:ASN:ND2	2.50	0.45
1:h:561:MET:HG2	1:h:728:PRO:HD3	1.99	0.45
1:7:561:MET:HG2	1:7:728:PRO:HD3	1.99	0.45
1:V:288:ASN:O	1:V:619:PRO:HA	2.17	0.45
1:V:313:ARG:HG3	1:V:313:ARG:NH1	2.30	0.45
1:Z:313:ARG:HG3	1:Z:313:ARG:NH1	2.30	0.45
1:K:552:ARG:NH2	1:O:442:ASP:OD1	2.50	0.45
1:W:604:LEU:O	1:W:607:MET:HB2	2.17	0.45
1:H:442:ASP:OD1	1:P:552:ARG:NH2	2.50	0.45
1:L:554:ASN:O	1:L:554:ASN:ND2	2.50	0.45
1:X:552:ARG:HH22	1:b:469:GLY:HA3	1.80	0.45
1:b:554:ASN:O	1:b:554:ASN:ND2	2.50	0.45
1:M:313:ARG:HG3	1:M:313:ARG:NH1	2.30	0.45
1:U:428:ALA:O	1:U:735:THR:HA	2.16	0.45
1:Y:604:LEU:O	1:Y:607:MET:HB2	2.17	0.45
1:c:604:LEU:O	1:c:607:MET:HB2	2.18	0.45
1:A:313:ARG:HG3	1:A:313:ARG:NH1	2.30	0.44
1:B:288:ASN:O	1:B:619:PRO:HA	2.17	0.44
1:D:630:ASN:HB3	1:E:608:VAL:HG12	1.98	0.44
1:i:314:LEU:HG	1:i:416:TYR:HB3	2.00	0.44
1:n:533:GLU:HB3	1:n:536:PHE:HD2	1.81	0.44
1:s:637:MET:HG3	1:x:479:ASN:ND2	2.32	0.44
1:x:318:LEU:HB2	1:x:412:PHE:HB3	2.00	0.44
1:3:258:TYR:OH	1:3:399:GLU:OE1	2.18	0.44
1:e:554:ASN:O	1:e:554:ASN:ND2	2.50	0.44
1:y:604:LEU:O	1:y:607:MET:HB2	2.17	0.44
1:f:554:ASN:ND2	1:f:554:ASN:O	2.50	0.44
1:k:306:ASN:OD1	1:k:691:LYS:NZ	2.37	0.44
1:z:313:ARG:HG3	1:z:313:ARG:NH1	2.30	0.44
1:z:630:ASN:HB3	1:5:608:VAL:HG12	1.98	0.44
1:5:533:GLU:HB3	1:5:536:PHE:HD2	1.81	0.44
1:g:318:LEU:HB2	1:g:412:PHE:HB3	2.00	0.44
1:l:554:ASN:ND2	1:l:554:ASN:O	2.50	0.44
1:v:314:LEU:HG	1:v:416:TYR:HB3	2.00	0.44
1:0:630:ASN:HB3	1:6:608:VAL:HG12	1.98	0.44
1:m:314:LEU:HG	1:m:416:TYR:HB3	2.00	0.44
1:m:533:GLU:HB3	1:m:536:PHE:HD2	1.81	0.44
1:r:697:TRP:CH2	1:c:369:PRO:HD3	2.52	0.44
1:w:314:LEU:HG	1:w:416:TYR:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:552:ARG:HH22	1:2:469:GLY:HA3	1.82	0.44
1:2:428:ALA:O	1:2:735:THR:HA	2.16	0.44
1:F:554:ASN:ND2	1:F:554:ASN:O	2.50	0.44
1:F:604:LEU:O	1:F:607:MET:HB2	2.17	0.44
1:J:554:ASN:O	1:J:554:ASN:ND2	2.50	0.44
1:N:318:LEU:HB2	1:N:412:PHE:HB3	2.00	0.44
1:R:637:MET:HG3	1:V:479:ASN:ND2	2.32	0.44
1:V:554:ASN:ND2	1:V:554:ASN:O	2.50	0.44
1:Z:697:TRP:CH2	1:G:369:PRO:HD3	2.52	0.44
1:G:604:LEU:O	1:G:607:MET:HB2	2.17	0.44
1:G:637:MET:HG3	1:K:479:ASN:ND2	2.31	0.44
1:K:318:LEU:HB2	1:K:412:PHE:HB3	2.00	0.44
1:O:533:GLU:HB3	1:O:536:PHE:HD2	1.81	0.44
1:O:561:MET:HG2	1:O:728:PRO:HD3	1.99	0.44
1:S:318:LEU:HB2	1:S:412:PHE:HB3	2.00	0.44
1:W:561:MET:HG2	1:W:728:PRO:HD3	1.99	0.44
1:H:608:VAL:HG12	1:P:630:ASN:HB3	1.99	0.44
1:b:604:LEU:O	1:b:607:MET:HB2	2.18	0.44
1:Q:561:MET:HG2	1:Q:728:PRO:HD3	1.99	0.44
1:U:637:MET:HG3	1:Y:479:ASN:ND2	2.32	0.44
1:1:552:ARG:NH2	1:A:442:ASP:OD1	2.50	0.44
1:A:554:ASN:O	1:A:554:ASN:ND2	2.50	0.44
1:B:313:ARG:HG3	1:B:313:ARG:NH1	2.30	0.44
1:C:314:LEU:HG	1:C:416:TYR:HB3	2.00	0.44
1:C:318:LEU:HB2	1:C:412:PHE:HB3	2.00	0.44
1:E:314:LEU:HG	1:E:416:TYR:HB3	2.00	0.44
1:i:530:LYS:HB3	1:i:574:VAL:HG21	1.98	0.44
1:x:554:ASN:O	1:x:554:ASN:ND2	2.50	0.44
1:j:428:ALA:O	1:j:735:THR:HA	2.16	0.44
1:t:288:ASN:O	1:t:619:PRO:HA	2.17	0.44
1:t:442:ASP:OD1	1:4:552:ARG:NH2	2.50	0.44
1:t:561:MET:HG2	1:t:728:PRO:HD3	1.99	0.44
1:y:288:ASN:O	1:y:619:PRO:HA	2.17	0.44
1:4:288:ASN:O	1:4:619:PRO:HA	2.16	0.44
1:4:530:LYS:HB3	1:4:574:VAL:HG21	1.98	0.44
1:f:604:LEU:O	1:f:607:MET:HB2	2.18	0.44
1:p:318:LEU:HB2	1:p:412:PHE:HB3	2.00	0.44
1:u:561:MET:HG2	1:u:728:PRO:HD3	1.99	0.44
1:u:608:VAL:HG12	1:5:630:ASN:HB3	1.98	0.44
1:z:318:LEU:HB2	1:z:412:PHE:HB3	2.00	0.44
1:g:313:ARG:HG3	1:g:313:ARG:NH1	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:530:LYS:HB3	1:h:574:VAL:HG21	1.98	0.44
1:r:554:ASN:O	1:r:554:ASN:ND2	2.50	0.44
1:2:313:ARG:HG3	1:2:313:ARG:NH1	2.30	0.44
1:2:314:LEU:HG	1:2:416:TYR:HB3	2.00	0.44
1:F:428:ALA:O	1:F:735:THR:HA	2.16	0.44
1:F:530:LYS:HB3	1:F:574:VAL:HG21	1.98	0.44
1:N:561:MET:HG2	1:N:728:PRO:HD3	1.99	0.44
1:R:313:ARG:HG3	1:R:313:ARG:NH1	2.30	0.44
1:R:442:ASP:OD1	1:Z:552:ARG:NH2	2.50	0.44
1:R:479:ASN:ND2	1:Z:637:MET:HG3	2.31	0.44
1:R:630:ASN:HB3	1:V:608:VAL:HG12	1.98	0.44
1:V:318:LEU:HB2	1:V:412:PHE:HB3	2.00	0.44
1:Z:369:PRO:HD3	1:G:697:TRP:CH2	2.52	0.44
1:Z:428:ALA:O	1:Z:735:THR:HA	2.16	0.44
1:G:288:ASN:O	1:G:619:PRO:HA	2.17	0.44
1:G:428:ALA:O	1:G:735:THR:HA	2.16	0.44
1:K:314:LEU:HG	1:K:416:TYR:HB3	2.00	0.44
1:W:554:ASN:O	1:W:554:ASN:ND2	2.50	0.44
1:L:533:GLU:HB3	1:L:536:PHE:HD2	1.81	0.44
1:b:226:SER:HG	1:b:320:ASN:H	1.64	0.44
1:b:318:LEU:HB2	1:b:412:PHE:HB3	2.00	0.44
1:I:604:LEU:O	1:I:607:MET:HB2	2.17	0.44
1:I:637:MET:HG3	1:M:479:ASN:ND2	2.31	0.44
1:M:561:MET:HG2	1:M:728:PRO:HD3	1.99	0.44
1:M:604:LEU:O	1:M:607:MET:HB2	2.18	0.44
1:Y:288:ASN:O	1:Y:619:PRO:HA	2.17	0.44
1:Y:533:GLU:HB3	1:Y:536:PHE:HD2	1.81	0.44
1:B:673:ILE:HD11	1:n:335:ILE:HG21	1.99	0.44
1:C:554:ASN:ND2	1:C:554:ASN:O	2.50	0.44
1:E:530:LYS:HB3	1:E:574:VAL:HG21	1.98	0.44
1:E:554:ASN:O	1:E:554:ASN:ND2	2.50	0.44
1:d:314:LEU:HG	1:d:416:TYR:HB3	2.00	0.44
1:d:608:VAL:HG12	1:n:630:ASN:HB3	1.99	0.44
1:n:288:ASN:O	1:n:619:PRO:HA	2.17	0.44
1:s:442:ASP:OD1	1:3:552:ARG:NH2	2.50	0.44
1:3:369:PRO:HD3	1:e:697:TRP:CH2	2.52	0.44
1:e:318:LEU:HB2	1:e:412:PHE:HB3	2.00	0.44
1:e:561:MET:HG2	1:e:728:PRO:HD3	1.99	0.44
1:e:604:LEU:O	1:e:607:MET:HB2	2.17	0.44
1:j:288:ASN:O	1:j:619:PRO:HA	2.17	0.44
1:j:314:LEU:HG	1:j:416:TYR:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:554:ASN:ND2	1:y:554:ASN:O	2.50	0.44
1:4:313:ARG:HG3	1:4:313:ARG:NH1	2.30	0.44
1:4:314:LEU:HG	1:4:416:TYR:HB3	1.99	0.44
1:k:288:ASN:O	1:k:619:PRO:HA	2.17	0.44
1:k:578:GLU:H	1:k:578:GLU:HG3	1.60	0.44
1:u:318:LEU:HB2	1:u:412:PHE:HB3	2.00	0.44
1:5:561:MET:HG2	1:5:728:PRO:HD3	1.99	0.44
1:g:561:MET:HG2	1:g:728:PRO:HD3	2.00	0.44
1:g:604:LEU:O	1:g:607:MET:HB2	2.18	0.44
1:q:288:ASN:O	1:q:619:PRO:HA	2.17	0.44
1:v:479:ASN:ND2	1:6:637:MET:HG3	2.31	0.44
1:0:428:ALA:O	1:0:735:THR:HA	2.16	0.44
1:0:604:LEU:O	1:0:607:MET:HB2	2.17	0.44
1:6:554:ASN:ND2	1:6:554:ASN:O	2.50	0.44
1:6:604:LEU:O	1:6:607:MET:HB2	2.18	0.44
1:r:561:MET:HG2	1:r:728:PRO:HD3	1.99	0.44
1:7:554:ASN:O	1:7:554:ASN:ND2	2.50	0.44
1:F:314:LEU:HG	1:F:416:TYR:HB3	2.00	0.44
1:J:604:LEU:O	1:J:607:MET:HB2	2.18	0.44
1:G:533:GLU:HB3	1:G:536:PHE:HD2	1.81	0.44
1:K:372:VAL:HG12	1:a:669:LEU:HD12	2.00	0.44
1:K:604:LEU:O	1:K:607:MET:HB2	2.18	0.44
1:S:554:ASN:ND2	1:S:554:ASN:O	2.50	0.44
1:a:554:ASN:ND2	1:a:554:ASN:O	2.50	0.44
1:a:604:LEU:O	1:a:607:MET:HB2	2.18	0.44
1:H:314:LEU:HG	1:H:416:TYR:HB3	2.00	0.44
1:P:697:TRP:CH2	1:Q:369:PRO:HD3	2.53	0.44
1:X:314:LEU:HG	1:X:416:TYR:HB3	2.00	0.44
1:M:314:LEU:HG	1:M:416:TYR:HB3	2.00	0.44
1:Q:288:ASN:O	1:Q:619:PRO:HA	2.17	0.44
1:U:554:ASN:O	1:U:554:ASN:ND2	2.50	0.44
1:C:288:ASN:O	1:C:619:PRO:HA	2.17	0.44
1:C:561:MET:HG2	1:C:728:PRO:HD3	1.99	0.44
1:D:604:LEU:O	1:D:607:MET:HB2	2.18	0.44
1:i:604:LEU:O	1:i:607:MET:HB2	2.18	0.44
1:n:428:ALA:O	1:n:735:THR:HA	2.16	0.44
1:s:314:LEU:HG	1:s:416:TYR:HB3	2.00	0.44
1:s:552:ARG:HH22	1:x:469:GLY:HA3	1.82	0.44
1:3:697:TRP:CH2	1:e:369:PRO:HD3	2.52	0.44
1:t:314:LEU:HG	1:t:416:TYR:HB3	1.99	0.44
1:t:552:ARG:HH22	1:y:469:GLY:HA3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:313:ARG:HG3	1:f:313:ARG:NH1	2.30	0.44
1:f:432:SER:OG	1:f:434:ASP:OD1	2.24	0.44
1:k:314:LEU:HG	1:k:416:TYR:HB3	1.99	0.44
1:p:426:SER:OG	1:p:426:SER:O	2.31	0.44
1:u:442:ASP:OD1	1:5:552:ARG:NH2	2.50	0.44
1:h:604:LEU:O	1:h:607:MET:HB2	2.17	0.44
1:m:604:LEU:O	1:m:607:MET:HB2	2.18	0.44
1:w:604:LEU:O	1:w:607:MET:HB2	2.18	0.44
1:2:258:TYR:OH	1:2:399:GLU:OE1	2.18	0.44
1:F:608:VAL:HG12	1:N:630:ASN:HB3	1.98	0.44
1:R:314:LEU:HG	1:R:416:TYR:HB3	1.99	0.44
1:V:552:ARG:HH22	1:Z:469:GLY:HA3	1.81	0.44
1:Z:318:LEU:HB2	1:Z:412:PHE:HB3	2.00	0.44
1:Z:561:MET:HG2	1:Z:728:PRO:HD3	1.99	0.44
1:G:608:VAL:HG12	1:O:630:ASN:HB3	1.99	0.44
1:H:552:ARG:NH2	1:L:442:ASP:OD1	2.50	0.44
1:L:314:LEU:HG	1:L:416:TYR:HB3	2.00	0.44
1:L:428:ALA:O	1:L:735:THR:HA	2.16	0.44
1:T:561:MET:HG2	1:T:728:PRO:HD3	1.99	0.44
1:I:318:LEU:HB2	1:I:412:PHE:HB3	2.00	0.44
1:I:630:ASN:HB3	1:M:608:VAL:HG12	1.98	0.44
1:U:288:ASN:O	1:U:619:PRO:HA	2.17	0.44
1:U:314:LEU:HG	1:U:416:TYR:HB3	1.99	0.44
1:3:288:ASN:O	1:3:619:PRO:HA	2.17	0.44
1:3:604:LEU:O	1:3:607:MET:HB2	2.18	0.44
1:j:426:SER:OG	1:j:426:SER:O	2.31	0.44
1:t:604:LEU:O	1:t:607:MET:HB2	2.17	0.44
1:y:231:CYS:HB2	1:Q:399:GLU:O	2.17	0.44
1:y:314:LEU:HG	1:y:416:TYR:HB3	2.00	0.44
1:4:369:PRO:HD3	1:z:697:TRP:CH2	2.53	0.44
1:p:604:LEU:O	1:p:607:MET:HB2	2.18	0.44
1:z:314:LEU:HG	1:z:416:TYR:HB3	1.99	0.44
1:z:604:LEU:O	1:z:607:MET:HB2	2.18	0.44
1:5:231:CYS:HB2	1:X:399:GLU:O	2.17	0.44
1:l:372:VAL:HG12	1:6:669:LEU:HD12	2.00	0.44
1:h:231:CYS:HB2	1:J:399:GLU:O	2.17	0.44
1:m:552:ARG:NH2	1:r:442:ASP:OD1	2.50	0.44
1:r:314:LEU:HG	1:r:416:TYR:HB3	2.00	0.44
1:r:318:LEU:HB2	1:r:412:PHE:HB3	2.00	0.44
1:2:288:ASN:O	1:2:619:PRO:HA	2.17	0.44
1:2:552:ARG:NH2	1:7:442:ASP:OD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:554:ASN:ND2	1:N:554:ASN:O	2.50	0.44
1:S:288:ASN:O	1:S:619:PRO:HA	2.17	0.44
1:S:442:ASP:OD1	1:a:552:ARG:NH2	2.50	0.44
1:a:313:ARG:HG3	1:a:313:ARG:NH1	2.30	0.44
1:a:369:PRO:HD3	1:X:697:TRP:CH2	2.53	0.44
1:P:318:LEU:HB2	1:P:412:PHE:HB3	2.00	0.44
1:T:625:PRO:HD3	1:X:480:TRP:CE2	2.53	0.44
1:I:314:LEU:HG	1:I:416:TYR:HB3	2.00	0.44
1:c:314:LEU:HG	1:c:416:TYR:HB3	2.00	0.44
1:l:335:ILE:HG21	1:i:673:ILE:HD11	1.99	0.44
1:A:306:ASN:OD1	1:A:691:LYS:NZ	2.37	0.44
1:A:318:LEU:HB2	1:A:412:PHE:HB3	2.00	0.44
1:C:669:LEU:HD12	1:o:372:VAL:HG12	1.99	0.44
1:D:231:CYS:HB2	1:j:399:GLU:O	2.18	0.44
1:D:288:ASN:O	1:D:619:PRO:HA	2.17	0.44
1:E:604:LEU:O	1:E:607:MET:HB2	2.18	0.44
1:e:314:LEU:HG	1:e:416:TYR:HB3	2.00	0.44
1:o:554:ASN:O	1:o:554:ASN:ND2	2.50	0.44
1:f:314:LEU:HG	1:f:416:TYR:HB3	1.99	0.44
1:p:313:ARG:HG3	1:p:313:ARG:NH1	2.30	0.44
1:p:561:MET:HG2	1:p:728:PRO:HD3	1.99	0.44
1:z:561:MET:HG2	1:z:728:PRO:HD3	1.99	0.44
1:5:427:TYR:O	1:5:732:ARG:HG2	2.18	0.44
1:v:669:LEU:HD12	1:V:372:VAL:HG12	1.99	0.44
1:6:313:ARG:HG3	1:6:313:ARG:NH1	2.30	0.44
1:6:561:MET:HG2	1:6:728:PRO:HD3	1.99	0.44
1:h:608:VAL:HG12	1:r:630:ASN:HB3	1.99	0.44
1:r:313:ARG:HG3	1:r:313:ARG:NH1	2.30	0.44
1:F:318:LEU:HB2	1:F:412:PHE:HB3	2.00	0.44
1:J:428:ALA:O	1:J:735:THR:HA	2.16	0.44
1:O:604:LEU:O	1:O:607:MET:HB2	2.18	0.44
1:S:427:TYR:O	1:S:732:ARG:HG2	2.18	0.44
1:W:427:TYR:O	1:W:732:ARG:HG2	2.18	0.44
1:P:314:LEU:HG	1:P:416:TYR:HB3	2.00	0.44
1:P:437:MET:HE3	1:P:437:MET:HB3	1.93	0.44
1:T:314:LEU:HG	1:T:416:TYR:HB3	2.00	0.44
1:T:554:ASN:O	1:T:554:ASN:ND2	2.50	0.44
1:X:318:LEU:HB2	1:X:412:PHE:HB3	2.00	0.44
1:I:554:ASN:ND2	1:I:554:ASN:O	2.50	0.44
1:l:561:MET:HG2	1:l:728:PRO:HD3	1.99	0.44
1:B:697:TRP:CH2	1:6:369:PRO:HD3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:313:ARG:HG3	1:C:313:ARG:NH1	2.30	0.44
1:C:604:LEU:O	1:C:607:MET:HB2	2.18	0.44
1:D:561:MET:HG2	1:D:728:PRO:HD3	1.99	0.44
1:E:318:LEU:HB2	1:E:412:PHE:HB3	2.00	0.44
1:d:442:ASP:OD1	1:n:552:ARG:NH2	2.50	0.44
1:n:314:LEU:HG	1:n:416:TYR:HB3	2.00	0.44
1:n:604:LEU:O	1:n:607:MET:HB2	2.17	0.44
1:3:231:CYS:HB2	1:o:399:GLU:O	2.17	0.44
1:3:335:ILE:HG21	1:o:673:ILE:HD11	2.00	0.44
1:o:561:MET:HG2	1:o:728:PRO:HD3	1.99	0.44
1:y:427:TYR:O	1:y:732:ARG:HG2	2.18	0.44
1:p:554:ASN:O	1:p:554:ASN:ND2	2.50	0.44
1:z:399:GLU:O	1:b:231:CYS:HB2	2.18	0.44
1:z:552:ARG:NH2	1:5:442:ASP:OD1	2.49	0.44
1:z:673:ILE:HD11	1:b:335:ILE:HG21	1.99	0.44
1:5:604:LEU:O	1:5:607:MET:HB2	2.18	0.44
1:l:552:ARG:NH2	1:q:442:ASP:OD1	2.50	0.44
1:0:314:LEU:HG	1:0:416:TYR:HB3	2.00	0.44
1:0:427:TYR:O	1:0:732:ARG:HG2	2.18	0.44
1:F:552:ARG:NH2	1:J:442:ASP:OD1	2.50	0.44
1:R:625:PRO:HD3	1:V:480:TRP:CE2	2.53	0.44
1:G:318:LEU:HB2	1:G:412:PHE:HB3	2.00	0.44
1:W:399:GLU:O	1:X:231:CYS:HB2	2.17	0.44
1:H:561:MET:HG2	1:H:728:PRO:HD3	1.99	0.44
1:P:313:ARG:HG3	1:P:313:ARG:NH1	2.30	0.44
1:X:427:TYR:O	1:X:732:ARG:HG2	2.18	0.44
1:I:608:VAL:HG12	1:Q:630:ASN:HB3	1.99	0.44
1:M:552:ARG:NH2	1:Q:442:ASP:OD1	2.50	0.44
1:Q:604:LEU:O	1:Q:607:MET:HB2	2.18	0.44
1:Y:314:LEU:HG	1:Y:416:TYR:HB3	2.00	0.44
1:B:318:LEU:HB2	1:B:412:PHE:HB3	2.00	0.44
1:D:399:GLU:O	1:f:231:CYS:HB2	2.17	0.44
1:D:673:ILE:HD11	1:f:335:ILE:HG21	2.00	0.44
1:e:426:SER:HB2	1:e:731:THR:CG2	2.48	0.44
1:e:552:ARG:NH2	1:j:442:ASP:OD1	2.50	0.44
1:o:604:LEU:O	1:o:607:MET:HB2	2.17	0.44
1:y:669:LEU:HD12	1:z:372:VAL:HG12	2.00	0.44
1:4:231:CYS:HB2	1:u:399:GLU:O	2.18	0.44
1:g:231:CYS:HB2	1:S:399:GLU:O	2.18	0.44
1:l:314:LEU:HG	1:l:416:TYR:HB3	2.00	0.44
1:q:254:ASN:HD21	1:q:279:SER:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:318:LEU:HB2	1:q:412:PHE:HB3	2.00	0.44
1:0:561:MET:HG2	1:0:728:PRO:HD3	1.99	0.44
1:r:427:TYR:O	1:r:732:ARG:HG2	2.18	0.44
1:r:604:LEU:O	1:r:607:MET:HB2	2.17	0.44
1:w:427:TYR:O	1:w:732:ARG:HG2	2.18	0.44
1:R:561:MET:HG2	1:R:728:PRO:HD3	1.99	0.44
1:V:314:LEU:HG	1:V:416:TYR:HB3	2.00	0.44
1:G:314:LEU:HG	1:G:416:TYR:HB3	2.00	0.44
1:O:314:LEU:HG	1:O:416:TYR:HB3	1.99	0.44
1:S:313:ARG:HG3	1:S:313:ARG:NH1	2.30	0.44
1:S:314:LEU:HG	1:S:416:TYR:HB3	1.99	0.44
1:S:561:MET:HG2	1:S:728:PRO:HD3	2.00	0.44
1:S:637:MET:HG3	1:W:479:ASN:ND2	2.32	0.44
1:a:318:LEU:HB2	1:a:412:PHE:HB3	2.00	0.44
1:H:306:ASN:OD1	1:H:691:LYS:NZ	2.37	0.44
1:H:318:LEU:HB2	1:H:412:PHE:HB3	2.00	0.44
1:U:254:ASN:HD21	1:U:279:SER:HB3	1.83	0.44
1:A:604:LEU:O	1:A:607:MET:HB2	2.18	0.44
1:B:426:SER:OG	1:B:426:SER:O	2.31	0.44
1:B:426:SER:HB2	1:B:731:THR:CG2	2.48	0.44
1:C:243:THR:HB	1:C:684:GLU:HG3	2.00	0.44
1:D:427:TYR:O	1:D:732:ARG:HG2	2.18	0.44
1:d:427:TYR:O	1:d:732:ARG:HG2	2.18	0.44
1:d:561:MET:HB3	1:d:728:PRO:HD3	2.00	0.44
1:i:561:MET:HG2	1:i:728:PRO:HD3	1.99	0.44
1:s:253:TYR:OH	1:s:375:ILE:O	2.26	0.44
1:s:561:MET:HG2	1:s:728:PRO:HD3	1.99	0.44
1:s:604:LEU:O	1:s:607:MET:HB2	2.18	0.44
1:x:426:SER:HB2	1:x:731:THR:CG2	2.48	0.44
1:x:561:MET:HB3	1:x:728:PRO:HD3	2.00	0.44
1:j:306:ASN:OD1	1:j:691:LYS:NZ	2.37	0.44
1:j:318:LEU:HB2	1:j:412:PHE:HB3	2.00	0.44
1:t:426:SER:HB2	1:t:731:THR:CG2	2.48	0.44
1:y:630:ASN:HB3	1:4:608:VAL:HG12	1.98	0.44
1:f:561:MET:HG2	1:f:728:PRO:HD3	1.99	0.44
1:f:637:MET:HG3	1:k:479:ASN:ND2	2.31	0.44
1:u:243:THR:HB	1:u:684:GLU:HG3	2.00	0.44
1:u:426:SER:HB2	1:u:731:THR:CG2	2.48	0.44
1:5:313:ARG:HG3	1:5:313:ARG:NH1	2.30	0.44
1:5:428:ALA:O	1:5:735:THR:HA	2.16	0.44
1:q:604:LEU:O	1:q:607:MET:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:313:ARG:HG3	1:v:313:ARG:NH1	2.30	0.44
1:v:437:MET:HE3	1:v:437:MET:HB3	1.93	0.44
1:6:318:LEU:HB2	1:6:412:PHE:HB3	2.00	0.44
1:m:318:LEU:HB2	1:m:412:PHE:HB3	2.00	0.44
1:m:673:ILE:HD11	1:c:335:ILE:HG21	2.00	0.44
1:7:335:ILE:HG21	1:P:673:ILE:HD11	1.98	0.44
1:R:318:LEU:HB2	1:R:412:PHE:HB3	2.00	0.44
1:V:561:MET:HG2	1:V:728:PRO:HD3	1.99	0.44
1:V:604:LEU:O	1:V:607:MET:HB2	2.18	0.44
1:Z:427:TYR:O	1:Z:732:ARG:HG2	2.18	0.44
1:O:318:LEU:HB2	1:O:412:PHE:HB3	2.00	0.44
1:a:697:TRP:CH2	1:X:369:PRO:HD3	2.53	0.44
1:H:427:TYR:O	1:H:732:ARG:HG2	2.18	0.44
1:H:604:LEU:O	1:H:607:MET:HB2	2.18	0.44
1:L:426:SER:HB2	1:L:731:THR:CG2	2.48	0.44
1:P:335:ILE:HG21	1:M:673:ILE:HD11	2.00	0.44
1:T:427:TYR:O	1:T:732:ARG:HG2	2.18	0.44
1:T:604:LEU:O	1:T:607:MET:HB2	2.18	0.44
1:I:426:SER:HB2	1:I:731:THR:CG2	2.48	0.44
1:I:427:TYR:O	1:I:732:ARG:HG2	2.18	0.44
1:M:254:ASN:HD21	1:M:279:SER:HB3	1.83	0.44
1:M:427:TYR:O	1:M:732:ARG:HG2	2.18	0.44
1:M:437:MET:HE3	1:M:437:MET:HB3	1.92	0.44
1:Q:318:LEU:HB2	1:Q:412:PHE:HB3	1.99	0.44
1:U:625:PRO:HD3	1:Y:480:TRP:CE2	2.53	0.44
1:c:530:LYS:HB3	1:c:574:VAL:HG21	1.98	0.44
1:A:437:MET:HE3	1:A:437:MET:HB3	1.93	0.43
1:A:552:ARG:NH2	1:B:442:ASP:OD1	2.50	0.43
1:C:253:TYR:OH	1:C:375:ILE:O	2.26	0.43
1:E:243:THR:HB	1:E:684:GLU:HG3	2.00	0.43
1:E:561:MET:HG2	1:E:728:PRO:HD3	1.99	0.43
1:d:254:ASN:HD21	1:d:279:SER:HB3	1.83	0.43
1:d:426:SER:HB2	1:d:731:THR:CG2	2.48	0.43
1:n:561:MET:HB3	1:n:728:PRO:HD3	2.00	0.43
1:x:533:GLU:HB3	1:x:536:PHE:HD2	1.81	0.43
1:j:427:TYR:O	1:j:732:ARG:HG2	2.18	0.43
1:o:254:ASN:HD21	1:o:279:SER:HB3	1.83	0.43
1:o:426:SER:OG	1:o:426:SER:O	2.31	0.43
1:t:552:ARG:NH2	1:y:442:ASP:OD1	2.51	0.43
1:y:552:ARG:NH2	1:4:442:ASP:OD1	2.49	0.43
1:4:318:LEU:HB2	1:4:412:PHE:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:427:TYR:O	1:4:732:ARG:HG2	2.18	0.43
1:p:369:PRO:HD3	1:q:697:TRP:CH2	2.53	0.43
1:p:697:TRP:CH2	1:q:369:PRO:HD3	2.53	0.43
1:u:604:LEU:O	1:u:607:MET:HB2	2.18	0.43
1:z:254:ASN:HD21	1:z:279:SER:HB3	1.83	0.43
1:q:426:SER:HB2	1:q:731:THR:CG2	2.48	0.43
1:v:442:ASP:OD1	1:6:552:ARG:NH2	2.50	0.43
1:v:604:LEU:O	1:v:607:MET:HB2	2.18	0.43
1:h:335:ILE:HG21	1:J:673:ILE:HD11	1.99	0.43
1:m:372:VAL:HG12	1:7:669:LEU:HD12	2.00	0.43
1:m:561:MET:HB3	1:m:728:PRO:HD3	2.01	0.43
1:r:673:ILE:HD11	1:N:335:ILE:HG21	1.99	0.43
1:w:625:PRO:HD3	1:2:480:TRP:CE2	2.53	0.43
1:J:314:LEU:HG	1:J:416:TYR:HB3	2.00	0.43
1:Z:426:SER:HB2	1:Z:731:THR:CG2	2.48	0.43
1:G:561:MET:HB3	1:G:728:PRO:HD3	2.00	0.43
1:S:561:MET:HB3	1:S:728:PRO:HD3	2.01	0.43
1:W:318:LEU:HB2	1:W:412:PHE:HB3	2.00	0.43
1:L:604:LEU:O	1:L:607:MET:HB2	2.18	0.43
1:b:254:ASN:HD21	1:b:279:SER:HB3	1.83	0.43
1:I:426:SER:OG	1:I:426:SER:O	2.31	0.43
1:M:288:ASN:O	1:M:619:PRO:HA	2.17	0.43
1:U:426:SER:HB2	1:U:731:THR:CG2	2.48	0.43
1:U:561:MET:HB3	1:U:728:PRO:HD3	2.00	0.43
1:U:561:MET:HG2	1:U:728:PRO:HD3	1.99	0.43
1:Y:427:TYR:O	1:Y:732:ARG:HG2	2.18	0.43
1:A:432:SER:OG	1:A:434:ASP:OD1	2.24	0.43
1:A:561:MET:HB3	1:A:728:PRO:HD3	2.01	0.43
1:A:561:MET:HG2	1:A:728:PRO:HD3	1.99	0.43
1:C:254:ASN:HD21	1:C:279:SER:HB3	1.83	0.43
1:C:625:PRO:HD3	1:D:480:TRP:CE2	2.53	0.43
1:d:243:THR:HB	1:d:684:GLU:HG3	2.01	0.43
1:s:625:PRO:HD3	1:x:480:TRP:CE2	2.53	0.43
1:x:254:ASN:HD21	1:x:279:SER:HB3	1.83	0.43
1:3:254:ASN:HD21	1:3:279:SER:HB3	1.83	0.43
1:j:372:VAL:HG12	1:4:669:LEU:HD12	2.00	0.43
1:j:561:MET:HG2	1:j:728:PRO:HD3	1.99	0.43
1:j:604:LEU:O	1:j:607:MET:HB2	2.18	0.43
1:o:318:LEU:HB2	1:o:412:PHE:HB3	2.00	0.43
1:o:427:TYR:O	1:o:732:ARG:HG2	2.18	0.43
1:t:399:GLU:O	1:I:231:CYS:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:625:PRO:HD3	1:y:480:TRP:CE2	2.53	0.43
1:y:561:MET:HG2	1:y:728:PRO:HD3	1.99	0.43
1:k:372:VAL:HG12	1:5:669:LEU:HD12	2.00	0.43
1:k:426:SER:HB2	1:k:731:THR:CG2	2.48	0.43
1:k:561:MET:HB3	1:k:728:PRO:HD3	2.01	0.43
1:p:427:TYR:O	1:p:732:ARG:HG2	2.18	0.43
1:z:426:SER:HB2	1:z:731:THR:CG2	2.48	0.43
1:5:318:LEU:HB2	1:5:412:PHE:HB3	1.99	0.43
1:5:561:MET:HB3	1:5:728:PRO:HD3	2.01	0.43
1:g:314:LEU:HG	1:g:416:TYR:HB3	2.00	0.43
1:v:427:TYR:O	1:v:732:ARG:HG2	2.18	0.43
1:0:318:LEU:HB2	1:0:412:PHE:HB3	2.00	0.43
1:6:426:SER:HB2	1:6:731:THR:CG2	2.48	0.43
1:m:426:SER:HB2	1:m:731:THR:CG2	2.48	0.43
1:w:318:LEU:HB2	1:w:412:PHE:HB3	2.00	0.43
1:2:369:PRO:HD3	1:O:697:TRP:CH2	2.53	0.43
1:F:427:TYR:O	1:F:732:ARG:HG2	2.18	0.43
1:F:625:PRO:HD3	1:J:480:TRP:CE2	2.53	0.43
1:R:604:LEU:O	1:R:607:MET:HB2	2.18	0.43
1:G:442:ASP:OD1	1:O:552:ARG:NH2	2.50	0.43
1:O:426:SER:HB2	1:O:731:THR:CG2	2.48	0.43
1:a:231:CYS:HB2	1:T:399:GLU:O	2.18	0.43
1:L:243:THR:HB	1:L:684:GLU:HG3	2.00	0.43
1:P:369:PRO:HD3	1:Q:697:TRP:CH2	2.53	0.43
1:T:442:ASP:OD1	1:b:552:ARG:NH2	2.50	0.43
1:T:552:ARG:HH22	1:X:469:GLY:HA3	1.82	0.43
1:X:313:ARG:HG3	1:X:313:ARG:NH1	2.30	0.43
1:X:426:SER:HB2	1:X:731:THR:CG2	2.48	0.43
1:X:604:LEU:O	1:X:607:MET:HB2	2.18	0.43
1:b:426:SER:HB2	1:b:731:THR:CG2	2.48	0.43
1:b:437:MET:HE3	1:b:437:MET:HB3	1.93	0.43
1:M:372:VAL:HG12	1:c:669:LEU:HD12	2.00	0.43
1:Q:314:LEU:HG	1:Q:416:TYR:HB3	1.99	0.43
1:U:552:ARG:HH22	1:Y:469:GLY:HA3	1.82	0.43
1:Y:254:ASN:HD21	1:Y:279:SER:HB3	1.84	0.43
1:c:426:SER:HB2	1:c:731:THR:CG2	2.48	0.43
1:1:314:LEU:HG	1:1:416:TYR:HB3	2.00	0.43
1:C:442:ASP:OD1	1:E:552:ARG:NH2	2.50	0.43
1:i:372:VAL:HG12	1:3:669:LEU:HD12	2.00	0.43
1:n:426:SER:HB2	1:n:731:THR:CG2	2.48	0.43
1:e:254:ASN:HD21	1:e:279:SER:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:243:THR:HB	1:j:684:GLU:HG3	2.00	0.43
1:o:428:ALA:O	1:o:735:THR:HA	2.16	0.43
1:t:254:ASN:HD21	1:t:279:SER:HB3	1.83	0.43
1:4:253:TYR:OH	1:4:375:ILE:O	2.26	0.43
1:4:697:TRP:CH2	1:z:369:PRO:HD3	2.53	0.43
1:u:552:ARG:HH22	1:z:469:GLY:HA3	1.82	0.43
1:5:243:THR:HB	1:5:684:GLU:HG3	2.01	0.43
1:g:427:TYR:O	1:g:732:ARG:HG2	2.18	0.43
1:q:561:MET:HB3	1:q:728:PRO:HD3	2.00	0.43
1:v:561:MET:HG2	1:v:728:PRO:HD3	2.00	0.43
1:v:625:PRO:HD3	1:0:480:TRP:CE2	2.53	0.43
1:h:552:ARG:NH2	1:m:442:ASP:OD1	2.50	0.43
1:h:659:ASP:OD1	1:h:659:ASP:N	2.44	0.43
1:m:243:THR:HB	1:m:684:GLU:HG3	2.00	0.43
1:2:231:CYS:HB2	1:K:399:GLU:O	2.18	0.43
1:2:427:TYR:O	1:2:732:ARG:HG2	2.18	0.43
1:2:561:MET:HB3	1:2:728:PRO:HD3	2.00	0.43
1:7:426:SER:HB2	1:7:731:THR:CG2	2.48	0.43
1:7:427:TYR:O	1:7:732:ARG:HG2	2.18	0.43
1:F:561:MET:HG2	1:F:728:PRO:HD3	1.99	0.43
1:J:561:MET:HG2	1:J:728:PRO:HD3	1.99	0.43
1:N:604:LEU:O	1:N:607:MET:HB2	2.18	0.43
1:R:243:THR:HB	1:R:684:GLU:HG3	2.00	0.43
1:R:432:SER:OG	1:R:434:ASP:OD1	2.24	0.43
1:K:427:TYR:O	1:K:732:ARG:HG2	2.18	0.43
1:O:561:MET:HB3	1:O:728:PRO:HD3	2.00	0.43
1:S:254:ASN:HD21	1:S:279:SER:HB3	1.83	0.43
1:W:426:SER:HB2	1:W:731:THR:CG2	2.48	0.43
1:a:427:TYR:O	1:a:732:ARG:HG2	2.18	0.43
1:H:625:PRO:HD3	1:L:480:TRP:CE2	2.53	0.43
1:L:372:VAL:HG12	1:b:669:LEU:HD12	2.00	0.43
1:L:561:MET:HB3	1:L:728:PRO:HD3	2.00	0.43
1:T:426:SER:HB2	1:T:731:THR:CG2	2.48	0.43
1:b:243:THR:HB	1:b:684:GLU:HG3	2.01	0.43
1:Q:254:ASN:HD21	1:Q:279:SER:HB3	1.83	0.43
1:Q:427:TYR:O	1:Q:732:ARG:HG2	2.18	0.43
1:U:427:TYR:O	1:U:732:ARG:HG2	2.18	0.43
1:Y:243:THR:HB	1:Y:684:GLU:HG3	2.01	0.43
1:Y:318:LEU:HB2	1:Y:412:PHE:HB3	2.00	0.43
1:c:318:LEU:HB2	1:c:412:PHE:HB3	2.00	0.43
1:1:231:CYS:HB2	1:i:399:GLU:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:254:ASN:HD21	1:1:279:SER:HB3	1.83	0.43
1:1:426:SER:HB2	1:1:731:THR:CG2	2.48	0.43
1:1:604:LEU:O	1:1:607:MET:HB2	2.18	0.43
1:B:254:ASN:HD21	1:B:279:SER:HB3	1.83	0.43
1:C:426:SER:HB2	1:C:731:THR:CG2	2.48	0.43
1:E:254:ASN:HD21	1:E:279:SER:HB3	1.83	0.43
1:E:427:TYR:O	1:E:732:ARG:HG2	2.18	0.43
1:s:254:ASN:HD21	1:s:279:SER:HB3	1.83	0.43
1:s:318:LEU:HB2	1:s:412:PHE:HB3	2.00	0.43
1:x:427:TYR:O	1:x:732:ARG:HG2	2.18	0.43
1:e:346:PHE:HB3	1:e:403:SER:HA	2.01	0.43
1:f:552:ARG:NH2	1:k:442:ASP:OD1	2.50	0.43
1:p:254:ASN:HD21	1:p:279:SER:HB3	1.83	0.43
1:p:432:SER:OG	1:p:434:ASP:OD1	2.24	0.43
1:l:426:SER:HB2	1:l:731:THR:CG2	2.48	0.43
1:q:314:LEU:HG	1:q:416:TYR:HB3	2.00	0.43
1:q:427:TYR:O	1:q:732:ARG:HG2	2.18	0.43
1:v:243:THR:HB	1:v:684:GLU:HG3	2.00	0.43
1:0:426:SER:OG	1:0:426:SER:O	2.31	0.43
1:6:243:THR:HB	1:6:684:GLU:HG3	2.01	0.43
1:m:427:TYR:O	1:m:732:ARG:HG2	2.18	0.43
1:r:426:SER:HB2	1:r:731:THR:CG2	2.48	0.43
1:7:254:ASN:HD21	1:7:279:SER:HB3	1.83	0.43
1:7:314:LEU:HG	1:7:416:TYR:HB3	2.00	0.43
1:7:604:LEU:O	1:7:607:MET:HB2	2.18	0.43
1:F:426:SER:HB2	1:F:731:THR:CG2	2.48	0.43
1:J:427:TYR:O	1:J:732:ARG:HG2	2.18	0.43
1:N:243:THR:HB	1:N:684:GLU:HG3	2.00	0.43
1:N:314:LEU:HG	1:N:416:TYR:HB3	2.00	0.43
1:S:604:LEU:O	1:S:607:MET:HB2	2.18	0.43
1:P:254:ASN:HD21	1:P:279:SER:HB3	1.83	0.43
1:P:604:LEU:O	1:P:607:MET:HB2	2.18	0.43
1:X:226:SER:HG	1:X:320:ASN:H	1.65	0.43
1:C:552:ARG:NH2	1:D:442:ASP:OD1	2.52	0.43
1:i:243:THR:HB	1:i:684:GLU:HG3	2.00	0.43
1:i:552:ARG:NH2	1:n:442:ASP:OD1	2.50	0.43
1:n:243:THR:HB	1:n:684:GLU:HG3	2.01	0.43
1:s:426:SER:HB2	1:s:731:THR:CG2	2.48	0.43
1:3:314:LEU:HG	1:3:416:TYR:HB3	2.00	0.43
1:o:561:MET:HB3	1:o:728:PRO:HD3	2.00	0.43
1:t:673:ILE:HD11	1:I:335:ILE:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:254:ASN:HD21	1:y:279:SER:HB3	1.83	0.43
1:y:426:SER:HB2	1:y:731:THR:CG2	2.48	0.43
1:4:561:MET:HG2	1:4:728:PRO:HD3	1.99	0.43
1:f:243:THR:HB	1:f:684:GLU:HG3	2.01	0.43
1:k:318:LEU:HB2	1:k:412:PHE:HB3	2.00	0.43
1:k:427:TYR:O	1:k:732:ARG:HG2	2.18	0.43
1:k:604:LEU:O	1:k:607:MET:HB2	2.17	0.43
1:g:426:SER:HB2	1:g:731:THR:CG2	2.48	0.43
1:g:552:ARG:NH2	1:l:442:ASP:OD1	2.50	0.43
1:g:578:GLU:H	1:g:578:GLU:HG3	1.60	0.43
1:v:346:PHE:HB3	1:v:403:SER:HA	2.01	0.43
1:6:346:PHE:HB3	1:6:403:SER:HA	2.01	0.43
1:h:427:TYR:O	1:h:732:ARG:HG2	2.18	0.43
1:h:625:PRO:HD3	1:m:480:TRP:CE2	2.53	0.43
1:r:254:ASN:HD21	1:r:279:SER:HB3	1.83	0.43
1:r:335:ILE:HG21	1:Y:673:ILE:HD11	2.00	0.43
1:F:346:PHE:HB3	1:F:403:SER:HA	2.01	0.43
1:F:442:ASP:OD1	1:N:552:ARG:NH2	2.50	0.43
1:J:318:LEU:HB2	1:J:412:PHE:HB3	2.00	0.43
1:J:426:SER:HB2	1:J:731:THR:CG2	2.48	0.43
1:J:561:MET:HB3	1:J:728:PRO:HD3	2.01	0.43
1:N:346:PHE:HB3	1:N:403:SER:HA	2.01	0.43
1:N:426:SER:HB2	1:N:731:THR:CG2	2.48	0.43
1:N:427:TYR:O	1:N:732:ARG:HG2	2.18	0.43
1:Z:604:LEU:O	1:Z:607:MET:HB2	2.17	0.43
1:G:346:PHE:HB3	1:G:403:SER:HA	2.01	0.43
1:G:427:TYR:O	1:G:732:ARG:HG2	2.18	0.43
1:S:625:PRO:HD3	1:W:480:TRP:CE2	2.53	0.43
1:H:243:THR:HB	1:H:684:GLU:HG3	2.01	0.43
1:P:243:THR:HB	1:P:684:GLU:HG3	2.00	0.43
1:P:561:MET:HG2	1:P:728:PRO:HD3	1.99	0.43
1:b:427:TYR:O	1:b:732:ARG:HG2	2.18	0.43
1:Q:426:SER:HB2	1:Q:731:THR:CG2	2.48	0.43
1:U:604:LEU:O	1:U:607:MET:HB2	2.18	0.43
1:c:561:MET:HG2	1:c:728:PRO:HD3	1.99	0.43
1:1:318:LEU:HB2	1:1:412:PHE:HB3	2.00	0.43
1:A:346:PHE:HB3	1:A:403:SER:HA	2.01	0.43
1:A:427:TYR:O	1:A:732:ARG:HG2	2.18	0.43
1:B:314:LEU:HG	1:B:416:TYR:HB3	2.00	0.43
1:C:552:ARG:HH22	1:D:469:GLY:HA3	1.82	0.43
1:C:578:GLU:H	1:C:578:GLU:HG3	1.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:314:LEU:HG	1:D:416:TYR:HB3	2.00	0.43
1:d:625:PRO:HD3	1:i:480:TRP:CE2	2.53	0.43
1:i:254:ASN:HD21	1:i:279:SER:HB3	1.83	0.43
1:i:427:TYR:O	1:i:732:ARG:HG2	2.18	0.43
1:n:318:LEU:HB2	1:n:412:PHE:HB3	1.99	0.43
1:s:243:THR:HB	1:s:684:GLU:HG3	2.00	0.43
1:x:561:MET:HG2	1:x:728:PRO:HD3	1.99	0.43
1:3:346:PHE:HB3	1:3:403:SER:HA	2.01	0.43
1:j:346:PHE:HB3	1:j:403:SER:HA	2.01	0.43
1:t:318:LEU:HB2	1:t:412:PHE:HB3	2.00	0.43
1:y:659:ASP:OD1	1:y:659:ASP:N	2.44	0.43
1:f:318:LEU:HB2	1:f:412:PHE:HB3	2.00	0.43
1:f:625:PRO:HD3	1:k:480:TRP:CE2	2.54	0.43
1:k:313:ARG:HG3	1:k:313:ARG:NH1	2.30	0.43
1:p:346:PHE:HB3	1:p:403:SER:HA	2.01	0.43
1:u:254:ASN:HD21	1:u:279:SER:HB3	1.83	0.43
1:u:552:ARG:NH2	1:z:442:ASP:OD1	2.52	0.43
1:u:561:MET:HB3	1:u:728:PRO:HD3	2.01	0.43
1:5:314:LEU:HG	1:5:416:TYR:HB3	2.00	0.43
1:5:521:ASN:HA	1:5:522:PRO:HA	1.90	0.43
1:l:561:MET:HG2	1:l:728:PRO:HD3	1.99	0.43
1:l:604:LEU:O	1:l:607:MET:HB2	2.18	0.43
1:v:318:LEU:HB2	1:v:412:PHE:HB3	2.00	0.43
1:r:243:THR:HB	1:r:684:GLU:HG3	2.00	0.43
1:w:561:MET:HG2	1:w:728:PRO:HD3	2.00	0.43
1:w:669:LEU:HD12	1:O:372:VAL:HG12	1.99	0.43
1:7:243:THR:HB	1:7:684:GLU:HG3	2.00	0.43
1:F:561:MET:HB3	1:F:728:PRO:HD3	2.00	0.43
1:F:673:ILE:HD11	1:R:335:ILE:HG21	2.01	0.43
1:R:346:PHE:HB3	1:R:403:SER:HA	2.01	0.43
1:R:552:ARG:HH22	1:V:469:GLY:HA3	1.82	0.43
1:Z:314:LEU:HG	1:Z:416:TYR:HB3	2.00	0.43
1:G:625:PRO:HD3	1:K:480:TRP:CE2	2.53	0.43
1:K:243:THR:HB	1:K:684:GLU:HG3	2.00	0.43
1:O:427:TYR:O	1:O:732:ARG:HG2	2.18	0.43
1:S:346:PHE:HB3	1:S:403:SER:HA	2.01	0.43
1:H:545:PHE:O	1:H:561:MET:N	2.42	0.43
1:L:226:SER:HG	1:L:320:ASN:H	1.65	0.43
1:X:254:ASN:HD21	1:X:279:SER:HB3	1.83	0.43
1:b:561:MET:HG2	1:b:728:PRO:HD3	1.99	0.43
1:M:243:THR:HB	1:M:684:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:442:ASP:OD1	1:c:552:ARG:NH2	2.50	0.43
1:c:426:SER:OG	1:c:426:SER:O	2.31	0.43
1:1:427:TYR:O	1:1:732:ARG:HG2	2.18	0.43
1:A:369:PRO:HD3	1:C:697:TRP:CH2	2.54	0.43
1:A:426:SER:HB2	1:A:731:THR:CG2	2.48	0.43
1:C:325:GLU:HG3	1:C:673:ILE:CG2	2.49	0.43
1:D:243:THR:HB	1:D:684:GLU:HG3	2.00	0.43
1:D:254:ASN:HD21	1:D:279:SER:HB3	1.83	0.43
1:d:318:LEU:HB2	1:d:412:PHE:HB3	2.00	0.43
1:d:673:ILE:HD11	1:s:335:ILE:HG21	2.01	0.43
1:s:427:TYR:O	1:s:732:ARG:HG2	2.18	0.43
1:x:243:THR:HB	1:x:684:GLU:HG3	2.00	0.43
1:x:604:LEU:O	1:x:607:MET:HB2	2.18	0.43
1:3:318:LEU:HB2	1:3:412:PHE:HB3	2.00	0.43
1:3:426:SER:HB2	1:3:731:THR:CG2	2.48	0.43
1:3:561:MET:HB3	1:3:728:PRO:HD3	2.00	0.43
1:e:427:TYR:O	1:e:732:ARG:HG2	2.18	0.43
1:e:442:ASP:OD1	1:o:552:ARG:NH2	2.50	0.43
1:j:561:MET:HB3	1:j:728:PRO:HD3	2.00	0.43
1:t:561:MET:HB3	1:t:728:PRO:HD3	2.01	0.43
1:y:561:MET:HB3	1:y:728:PRO:HD3	2.00	0.43
1:p:314:LEU:HG	1:p:416:TYR:HB3	2.00	0.43
1:p:426:SER:HB2	1:p:731:THR:CG2	2.48	0.43
1:u:427:TYR:O	1:u:732:ARG:HG2	2.18	0.43
1:g:254:ASN:HD21	1:g:279:SER:HB3	1.83	0.43
1:g:625:PRO:HD3	1:l:480:TRP:CE2	2.53	0.43
1:g:669:LEU:HD12	1:v:372:VAL:HG12	2.01	0.43
1:l:318:LEU:HB2	1:l:412:PHE:HB3	1.99	0.43
1:l:427:TYR:O	1:l:732:ARG:HG2	2.18	0.43
1:0:369:PRO:HD3	1:V:697:TRP:CH2	2.54	0.43
1:6:426:SER:OG	1:6:426:SER:O	2.31	0.43
1:6:561:MET:HB3	1:6:728:PRO:HD3	2.00	0.43
1:6:578:GLU:H	1:6:578:GLU:HG3	1.60	0.43
1:h:314:LEU:HG	1:h:416:TYR:HB3	2.00	0.43
1:m:369:PRO:HD3	1:w:697:TRP:CH2	2.54	0.43
1:w:637:MET:HG3	1:2:479:ASN:ND2	2.32	0.43
1:7:231:CYS:HB2	1:P:399:GLU:O	2.19	0.43
1:7:318:LEU:HB2	1:7:412:PHE:HB3	2.00	0.43
1:R:561:MET:HB3	1:R:728:PRO:HD3	2.00	0.43
1:V:555:ALA:N	1:Z:465:PHE:O	2.48	0.43
1:G:673:ILE:HD11	1:S:335:ILE:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:437:MET:HE3	1:K:437:MET:HB3	1.93	0.43
1:a:346:PHE:HB3	1:a:403:SER:HA	2.01	0.43
1:a:426:SER:HB2	1:a:731:THR:CG2	2.48	0.43
1:H:346:PHE:HB3	1:H:403:SER:HA	2.01	0.43
1:H:669:LEU:HD12	1:T:372:VAL:HG12	2.01	0.43
1:L:561:MET:HG2	1:L:728:PRO:HD3	1.99	0.43
1:I:254:ASN:HD21	1:I:279:SER:HB3	1.83	0.43
1:U:346:PHE:HB3	1:U:403:SER:HA	2.01	0.43
1:Y:603:ALA:HA	1:Y:607:MET:HE1	2.01	0.43
1:A:254:ASN:HD21	1:A:279:SER:HB3	1.83	0.43
1:A:314:LEU:HG	1:A:416:TYR:HB3	2.00	0.43
1:A:372:VAL:HG12	1:E:669:LEU:HD12	2.00	0.43
1:A:673:ILE:HD11	1:6:335:ILE:HG21	2.00	0.43
1:B:427:TYR:O	1:B:732:ARG:HG2	2.18	0.43
1:B:604:LEU:O	1:B:607:MET:HB2	2.18	0.43
1:D:318:LEU:HB2	1:D:412:PHE:HB3	2.00	0.43
1:d:346:PHE:HB3	1:d:403:SER:HA	2.01	0.43
1:i:313:ARG:HG3	1:i:313:ARG:NH1	2.30	0.43
1:n:254:ASN:HD21	1:n:279:SER:HB3	1.83	0.43
1:x:314:LEU:HG	1:x:416:TYR:HB3	1.99	0.43
1:e:437:MET:HE3	1:e:437:MET:HB3	1.93	0.43
1:j:313:ARG:HG3	1:j:313:ARG:NH1	2.30	0.43
1:y:318:LEU:HB2	1:y:412:PHE:HB3	2.00	0.43
1:4:561:MET:HB3	1:4:728:PRO:HD3	2.01	0.43
1:k:346:PHE:HB3	1:k:403:SER:HA	2.01	0.43
1:z:427:TYR:O	1:z:732:ARG:HG2	2.18	0.43
1:z:561:MET:HB3	1:z:728:PRO:HD3	2.01	0.43
1:5:426:SER:HB2	1:5:731:THR:CG2	2.48	0.43
1:g:346:PHE:HB3	1:g:403:SER:HA	2.01	0.43
1:l:369:PRO:HD3	1:v:697:TRP:CH2	2.54	0.43
1:l:617:GLN:HE22	1:l:728:PRO:HA	1.84	0.43
1:q:325:GLU:HG3	1:q:673:ILE:CG2	2.49	0.43
1:v:521:ASN:HA	1:v:522:PRO:HA	1.90	0.43
1:v:552:ARG:NH2	1:0:442:ASP:OD1	2.51	0.43
1:6:314:LEU:HG	1:6:416:TYR:HB3	2.00	0.43
1:h:318:LEU:HB2	1:h:412:PHE:HB3	2.00	0.43
1:h:669:LEU:HD12	1:w:372:VAL:HG12	2.01	0.43
1:m:254:ASN:HD21	1:m:279:SER:HB3	1.83	0.43
1:m:346:PHE:HB3	1:m:403:SER:HA	2.01	0.43
1:r:325:GLU:HG3	1:r:673:ILE:CG2	2.49	0.43
1:w:552:ARG:NH2	1:2:442:ASP:OD1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:243:THR:HB	1:2:684:GLU:HG3	2.00	0.43
1:2:561:MET:HG2	1:2:728:PRO:HD3	1.99	0.43
1:7:346:PHE:HB3	1:7:403:SER:HA	2.01	0.43
1:J:254:ASN:HD21	1:J:279:SER:HB3	1.83	0.43
1:R:552:ARG:NH2	1:V:442:ASP:OD1	2.51	0.43
1:K:325:GLU:HG3	1:K:673:ILE:CG2	2.49	0.43
1:W:314:LEU:HG	1:W:416:TYR:HB3	2.00	0.43
1:W:346:PHE:HB3	1:W:403:SER:HA	2.01	0.43
1:W:617:GLN:HE22	1:W:728:PRO:HA	1.84	0.43
1:a:254:ASN:HD21	1:a:279:SER:HB3	1.83	0.43
1:H:426:SER:HB2	1:H:731:THR:CG2	2.48	0.43
1:H:673:ILE:HD11	1:T:335:ILE:HG21	2.01	0.43
1:L:427:TYR:O	1:L:732:ARG:HG2	2.18	0.43
1:I:669:LEU:HD12	1:U:372:VAL:HG12	2.01	0.43
1:Q:561:MET:HB3	1:Q:728:PRO:HD3	2.01	0.43
1:U:480:TRP:CE2	1:c:625:PRO:HD3	2.54	0.43
1:U:552:ARG:NH2	1:Y:442:ASP:OD1	2.52	0.43
1:Y:561:MET:HB3	1:Y:728:PRO:HD3	2.00	0.43
1:c:561:MET:HB3	1:c:728:PRO:HD3	2.00	0.43
1:1:480:TRP:CE2	1:B:625:PRO:HD3	2.54	0.43
1:1:603:ALA:HA	1:1:607:MET:HE1	2.01	0.43
1:B:603:ALA:HA	1:B:607:MET:HE1	2.01	0.43
1:B:617:GLN:HE22	1:B:728:PRO:HA	1.84	0.43
1:C:427:TYR:O	1:C:732:ARG:HG2	2.18	0.43
1:D:426:SER:HB2	1:D:731:THR:CG2	2.48	0.43
1:n:427:TYR:O	1:n:732:ARG:HG2	2.18	0.43
1:s:561:MET:HB3	1:s:728:PRO:HD3	2.01	0.43
1:3:243:THR:HB	1:3:684:GLU:HG3	2.01	0.43
1:3:427:TYR:O	1:3:732:ARG:HG2	2.18	0.43
1:e:617:GLN:HE22	1:e:728:PRO:HA	1.84	0.43
1:e:625:PRO:HD3	1:j:480:TRP:CE2	2.53	0.43
1:e:669:LEU:HD12	1:t:372:VAL:HG12	2.01	0.43
1:t:314:LEU:HA	1:t:684:GLU:O	2.19	0.43
1:4:426:SER:HB2	1:4:731:THR:CG2	2.48	0.43
1:f:480:TRP:CE2	1:p:625:PRO:HD3	2.54	0.43
1:k:254:ASN:HD21	1:k:279:SER:HB3	1.83	0.43
1:p:325:GLU:HG3	1:p:673:ILE:CG2	2.49	0.43
1:p:335:ILE:HG21	1:l:673:ILE:HD11	2.00	0.43
1:u:432:SER:OG	1:u:434:ASP:OD1	2.24	0.43
1:u:480:TRP:CE2	1:5:625:PRO:HD3	2.54	0.43
1:u:625:PRO:HD3	1:z:480:TRP:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:243:THR:HB	1:z:684:GLU:HG3	2.00	0.43
1:z:603:ALA:HA	1:z:607:MET:HE1	2.01	0.43
1:g:243:THR:HB	1:g:684:GLU:HG3	2.01	0.43
1:g:480:TRP:CE2	1:q:625:PRO:HD3	2.54	0.43
1:g:673:ILE:HD11	1:v:335:ILE:HG21	2.01	0.43
1:v:561:MET:HB3	1:v:728:PRO:HD3	2.00	0.43
1:0:254:ASN:HD21	1:0:279:SER:HB3	1.83	0.43
1:0:325:GLU:HG3	1:0:673:ILE:CG2	2.49	0.43
1:0:426:SER:HB2	1:0:731:THR:CG2	2.48	0.43
1:6:427:TYR:O	1:6:732:ARG:HG2	2.18	0.43
1:w:603:ALA:HA	1:w:607:MET:HE1	2.01	0.43
1:7:325:GLU:HG3	1:7:673:ILE:CG2	2.49	0.43
1:F:325:GLU:HG3	1:F:673:ILE:CG2	2.49	0.43
1:F:480:TRP:CE2	1:N:625:PRO:HD3	2.54	0.43
1:J:578:GLU:H	1:J:578:GLU:HG3	1.60	0.43
1:J:697:TRP:CH2	1:R:369:PRO:HD3	2.54	0.43
1:R:254:ASN:HD21	1:R:279:SER:HB3	1.83	0.43
1:V:306:ASN:OD1	1:V:691:LYS:NZ	2.37	0.43
1:Z:335:ILE:HG21	1:O:673:ILE:HD11	2.00	0.43
1:G:243:THR:HB	1:G:684:GLU:HG3	2.00	0.43
1:K:426:SER:HB2	1:K:731:THR:CG2	2.48	0.43
1:W:571:THR:HG23	1:W:608:VAL:HG23	2.01	0.43
1:a:561:MET:HG2	1:a:728:PRO:HD3	1.99	0.43
1:P:325:GLU:HG3	1:P:673:ILE:CG2	2.49	0.43
1:P:427:TYR:O	1:P:732:ARG:HG2	2.18	0.43
1:P:561:MET:HB3	1:P:728:PRO:HD3	2.00	0.43
1:P:603:ALA:HA	1:P:607:MET:HE1	2.01	0.43
1:T:243:THR:HB	1:T:684:GLU:HG3	2.00	0.43
1:T:325:GLU:HG3	1:T:673:ILE:CG2	2.49	0.43
1:T:346:PHE:HB3	1:T:403:SER:HA	2.01	0.43
1:I:673:ILE:HD11	1:U:335:ILE:HG21	2.01	0.43
1:M:561:MET:HB3	1:M:728:PRO:HD3	2.01	0.43
1:1:669:LEU:HD12	1:C:372:VAL:HG12	2.01	0.43
1:C:571:THR:HG23	1:C:608:VAL:HG23	2.01	0.43
1:C:603:ALA:HA	1:C:607:MET:HE1	2.01	0.43
1:D:372:VAL:HG12	1:j:669:LEU:HD12	2.01	0.43
1:i:426:SER:HB2	1:i:731:THR:CG2	2.48	0.43
1:n:521:ASN:HA	1:n:522:PRO:HA	1.90	0.43
1:e:480:TRP:CE2	1:o:625:PRO:HD3	2.54	0.43
1:j:426:SER:HB2	1:j:731:THR:CG2	2.48	0.43
1:o:325:GLU:HG3	1:o:673:ILE:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:480:TRP:CE2	1:4:625:PRO:HD3	2.54	0.43
1:f:673:ILE:HD11	1:u:335:ILE:HG21	2.01	0.43
1:k:243:THR:HB	1:k:684:GLU:HG3	2.00	0.43
1:u:314:LEU:HG	1:u:416:TYR:HB3	1.99	0.43
1:u:325:GLU:HG3	1:u:673:ILE:CG2	2.49	0.43
1:z:617:GLN:HE22	1:z:728:PRO:HA	1.84	0.43
1:5:254:ASN:HD21	1:5:279:SER:HB3	1.83	0.43
1:5:617:GLN:HE22	1:5:728:PRO:HA	1.84	0.43
1:l:314:LEU:HA	1:l:684:GLU:O	2.19	0.43
1:l:697:TRP:CH2	1:v:369:PRO:HD3	2.54	0.43
1:q:617:GLN:HE22	1:q:728:PRO:HA	1.84	0.43
1:0:243:THR:HB	1:0:684:GLU:HG3	2.01	0.43
1:h:325:GLU:HG3	1:h:673:ILE:CG2	2.49	0.43
1:h:673:ILE:HD11	1:w:335:ILE:HG21	2.01	0.43
1:r:346:PHE:HB3	1:r:403:SER:HA	2.01	0.43
1:w:243:THR:HB	1:w:684:GLU:HG3	2.00	0.43
1:w:314:LEU:HA	1:w:684:GLU:O	2.19	0.43
1:w:346:PHE:HB3	1:w:403:SER:HA	2.01	0.43
1:w:426:SER:HB2	1:w:731:THR:CG2	2.48	0.43
1:2:318:LEU:HB2	1:2:412:PHE:HB3	2.00	0.43
1:2:673:ILE:HD11	1:H:335:ILE:HG21	2.00	0.43
1:J:243:THR:HB	1:J:684:GLU:HG3	2.00	0.43
1:J:372:VAL:HG12	1:Z:669:LEU:HD12	2.00	0.43
1:N:254:ASN:HD21	1:N:279:SER:HB3	1.83	0.43
1:N:314:LEU:HA	1:N:684:GLU:O	2.19	0.43
1:R:426:SER:HB2	1:R:731:THR:CG2	2.48	0.43
1:R:521:ASN:HA	1:R:522:PRO:HA	1.90	0.43
1:R:603:ALA:HA	1:R:607:MET:HE1	2.01	0.43
1:V:427:TYR:O	1:V:732:ARG:HG2	2.18	0.43
1:Z:603:ALA:HA	1:Z:607:MET:HE1	2.01	0.43
1:G:313:ARG:HG3	1:G:313:ARG:NH1	2.30	0.43
1:G:426:SER:OG	1:G:426:SER:O	2.31	0.43
1:G:669:LEU:HD12	1:S:372:VAL:HG12	2.01	0.43
1:K:314:LEU:HA	1:K:684:GLU:O	2.19	0.43
1:O:243:THR:HB	1:O:684:GLU:HG3	2.00	0.43
1:W:545:PHE:O	1:W:561:MET:N	2.42	0.43
1:W:669:LEU:HD12	1:X:372:VAL:HG12	2.00	0.43
1:L:545:PHE:O	1:L:561:MET:N	2.42	0.43
1:T:254:ASN:HD21	1:T:279:SER:HB3	1.83	0.43
1:b:314:LEU:HG	1:b:416:TYR:HB3	2.00	0.43
1:I:325:GLU:HG3	1:I:673:ILE:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:603:ALA:HA	1:I:607:MET:HE1	2.01	0.43
1:M:318:LEU:HB2	1:M:412:PHE:HB3	2.00	0.43
1:U:603:ALA:HA	1:U:607:MET:HE1	2.01	0.43
1:Y:617:GLN:HE22	1:Y:728:PRO:HA	1.84	0.43
1:c:603:ALA:HA	1:c:607:MET:HE1	2.01	0.43
1:A:243:THR:HB	1:A:684:GLU:HG3	2.01	0.42
1:C:480:TRP:CE2	1:E:625:PRO:HD3	2.54	0.42
1:D:346:PHE:HB3	1:D:403:SER:HA	2.01	0.42
1:E:325:GLU:HG3	1:E:673:ILE:CG2	2.49	0.42
1:n:314:LEU:HA	1:n:684:GLU:O	2.20	0.42
1:n:571:THR:HG23	1:n:608:VAL:HG23	2.01	0.42
1:s:325:GLU:HG3	1:s:673:ILE:CG2	2.49	0.42
1:s:399:GLU:O	1:Y:231:CYS:HB2	2.19	0.42
1:s:603:ALA:HA	1:s:607:MET:HE1	2.01	0.42
1:e:296:PRO:HG2	1:e:715:PHE:HB3	2.01	0.42
1:e:325:GLU:HG3	1:e:673:ILE:CG2	2.49	0.42
1:j:325:GLU:HG3	1:j:673:ILE:CG2	2.49	0.42
1:j:571:THR:HG23	1:j:608:VAL:HG23	2.01	0.42
1:j:603:ALA:HA	1:j:607:MET:HE1	2.01	0.42
1:o:314:LEU:HG	1:o:416:TYR:HB3	2.00	0.42
1:f:314:LEU:HA	1:f:684:GLU:O	2.19	0.42
1:k:314:LEU:HA	1:k:684:GLU:O	2.19	0.42
1:k:545:PHE:O	1:k:561:MET:N	2.42	0.42
1:p:578:GLU:H	1:p:578:GLU:HG3	1.60	0.42
1:u:296:PRO:HG2	1:u:715:PHE:HB3	2.01	0.42
1:5:325:GLU:HG3	1:5:673:ILE:CG2	2.49	0.42
1:5:571:THR:HG23	1:5:608:VAL:HG23	2.01	0.42
1:l:254:ASN:HD21	1:l:279:SER:HB3	1.83	0.42
1:6:296:PRO:HG2	1:6:715:PHE:HB3	2.01	0.42
1:2:571:THR:HG23	1:2:608:VAL:HG23	2.01	0.42
1:2:603:ALA:HA	1:2:607:MET:HE1	2.01	0.42
1:F:254:ASN:HD21	1:F:279:SER:HB3	1.83	0.42
1:F:465:PHE:O	1:N:555:ALA:N	2.48	0.42
1:R:314:LEU:HA	1:R:684:GLU:O	2.19	0.42
1:V:545:PHE:O	1:V:561:MET:N	2.42	0.42
1:Z:578:GLU:H	1:Z:578:GLU:HG3	1.60	0.42
1:G:325:GLU:HG3	1:G:673:ILE:CG2	2.49	0.42
1:G:426:SER:HB2	1:G:731:THR:CG2	2.48	0.42
1:K:603:ALA:HA	1:K:607:MET:HE1	2.01	0.42
1:a:314:LEU:HA	1:a:684:GLU:O	2.19	0.42
1:L:346:PHE:HB3	1:L:403:SER:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:603:ALA:HA	1:L:607:MET:HE1	2.01	0.42
1:P:426:SER:HB2	1:P:731:THR:CG2	2.48	0.42
1:T:552:ARG:NH2	1:X:442:ASP:OD1	2.51	0.42
1:T:617:GLN:HE22	1:T:728:PRO:HA	1.84	0.42
1:X:243:THR:HB	1:X:684:GLU:HG3	2.00	0.42
1:X:571:THR:HG23	1:X:608:VAL:HG23	2.01	0.42
1:M:426:SER:HB2	1:M:731:THR:CG2	2.48	0.42
1:M:603:ALA:HA	1:M:607:MET:HE1	2.01	0.42
1:Q:346:PHE:HB3	1:Q:403:SER:HA	2.01	0.42
1:U:318:LEU:HB2	1:U:412:PHE:HB3	2.00	0.42
1:U:617:GLN:HE22	1:U:728:PRO:HA	1.84	0.42
1:c:346:PHE:HB3	1:c:403:SER:HA	2.01	0.42
1:c:427:TYR:O	1:c:732:ARG:HG2	2.18	0.42
1:c:617:GLN:HE22	1:c:728:PRO:HA	1.84	0.42
1:l:243:THR:HB	1:l:684:GLU:HG3	2.01	0.42
1:A:571:THR:HG23	1:A:608:VAL:HG23	2.01	0.42
1:B:335:ILE:HG21	1:O:673:ILE:HD11	2.00	0.42
1:B:561:MET:HG2	1:B:728:PRO:HD3	1.99	0.42
1:D:325:GLU:HG3	1:D:673:ILE:CG2	2.49	0.42
1:D:369:PRO:HD3	1:o:697:TRP:CH2	2.53	0.42
1:D:571:THR:HG23	1:D:608:VAL:HG23	2.01	0.42
1:D:700:GLU:HG3	1:o:297:ARG:NE	2.34	0.42
1:E:296:PRO:HG2	1:E:715:PHE:HB3	2.02	0.42
1:E:314:LEU:HA	1:E:684:GLU:O	2.19	0.42
1:d:480:TRP:CE2	1:n:625:PRO:HD3	2.54	0.42
1:i:318:LEU:HB2	1:i:412:PHE:HB3	2.00	0.42
1:i:697:TRP:CH2	1:s:369:PRO:HD3	2.54	0.42
1:n:325:GLU:HG3	1:n:673:ILE:CG2	2.49	0.42
1:x:325:GLU:HG3	1:x:673:ILE:CG2	2.49	0.42
1:x:346:PHE:HB3	1:x:403:SER:HA	2.01	0.42
1:3:603:ALA:HA	1:3:607:MET:HE1	2.01	0.42
1:o:617:GLN:HE22	1:o:728:PRO:HA	1.84	0.42
1:t:346:PHE:HB3	1:t:403:SER:HA	2.01	0.42
1:t:427:TYR:O	1:t:732:ARG:HG2	2.18	0.42
1:y:314:LEU:HA	1:y:684:GLU:O	2.19	0.42
1:y:335:ILE:HG21	1:Q:673:ILE:HD11	2.00	0.42
1:4:254:ASN:HD21	1:4:279:SER:HB3	1.83	0.42
1:f:669:LEU:HD12	1:u:372:VAL:HG12	2.01	0.42
1:5:314:LEU:HA	1:5:684:GLU:O	2.19	0.42
1:h:314:LEU:HA	1:h:684:GLU:O	2.19	0.42
1:h:561:MET:HB3	1:h:728:PRO:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:296:PRO:HG2	1:m:715:PHE:HB3	2.02	0.42
1:m:617:GLN:HE22	1:m:728:PRO:HA	1.84	0.42
1:w:480:TRP:CE2	1:7:625:PRO:HD3	2.54	0.42
1:2:426:SER:HB2	1:2:731:THR:CG2	2.48	0.42
1:2:604:LEU:O	1:2:607:MET:HB2	2.18	0.42
1:2:700:GLU:HG3	1:O:297:ARG:NE	2.35	0.42
1:7:296:PRO:HG2	1:7:715:PHE:HB3	2.02	0.42
1:F:669:LEU:HD12	1:R:372:VAL:HG12	2.01	0.42
1:J:314:LEU:HA	1:J:684:GLU:O	2.19	0.42
1:J:603:ALA:HA	1:J:607:MET:HE1	2.01	0.42
1:N:325:GLU:HG3	1:N:673:ILE:CG2	2.49	0.42
1:N:426:SER:OG	1:N:426:SER:O	2.31	0.42
1:R:427:TYR:O	1:R:732:ARG:HG2	2.18	0.42
1:V:426:SER:HB2	1:V:731:THR:CG2	2.48	0.42
1:Z:346:PHE:HB3	1:Z:403:SER:HA	2.01	0.42
1:Z:561:MET:HB3	1:Z:728:PRO:HD3	2.00	0.42
1:G:254:ASN:HD21	1:G:279:SER:HB3	1.83	0.42
1:G:561:MET:HG2	1:G:728:PRO:HD3	2.00	0.42
1:G:617:GLN:HE22	1:G:728:PRO:HA	1.84	0.42
1:O:254:ASN:HD21	1:O:279:SER:HB3	1.83	0.42
1:O:296:PRO:HG2	1:O:715:PHE:HB3	2.02	0.42
1:H:254:ASN:HD21	1:H:279:SER:HB3	1.84	0.42
1:H:571:THR:HG23	1:H:608:VAL:HG23	2.01	0.42
1:T:318:LEU:HB2	1:T:412:PHE:HB3	2.00	0.42
1:T:561:MET:HB3	1:T:728:PRO:HD3	2.00	0.42
1:b:346:PHE:HB3	1:b:403:SER:HA	2.01	0.42
1:I:296:PRO:HG2	1:I:715:PHE:HB3	2.02	0.42
1:I:561:MET:HB3	1:I:728:PRO:HD3	2.00	0.42
1:M:617:GLN:HE22	1:M:728:PRO:HA	1.84	0.42
1:Q:325:GLU:HG3	1:Q:673:ILE:CG2	2.49	0.42
1:U:318:LEU:HD23	1:U:318:LEU:HA	1.90	0.42
1:Y:571:THR:HG23	1:Y:608:VAL:HG23	2.01	0.42
1:1:561:MET:HB3	1:1:728:PRO:HD3	2.00	0.42
1:1:625:PRO:HD3	1:A:480:TRP:CE2	2.54	0.42
1:E:231:CYS:HB2	1:p:399:GLU:O	2.19	0.42
1:E:346:PHE:HB3	1:E:403:SER:HA	2.01	0.42
1:i:561:MET:HB3	1:i:728:PRO:HD3	2.01	0.42
1:n:346:PHE:HB3	1:n:403:SER:HA	2.01	0.42
1:s:480:TRP:CE2	1:3:625:PRO:HD3	2.54	0.42
1:3:314:LEU:HA	1:3:684:GLU:O	2.19	0.42
1:3:617:GLN:HE22	1:3:728:PRO:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:561:MET:HB3	1:e:728:PRO:HD3	2.00	0.42
1:e:603:ALA:HA	1:e:607:MET:HE1	2.01	0.42
1:j:254:ASN:HD21	1:j:279:SER:HB3	1.84	0.42
1:j:369:PRO:HD3	1:t:697:TRP:CH2	2.54	0.42
1:o:243:THR:HB	1:o:684:GLU:HG3	2.01	0.42
1:o:296:PRO:HG2	1:o:715:PHE:HB3	2.01	0.42
1:t:296:PRO:HG2	1:t:715:PHE:HB3	2.01	0.42
1:t:325:GLU:HG3	1:t:673:ILE:CG2	2.49	0.42
1:t:437:MET:HE3	1:t:437:MET:HB3	1.93	0.42
1:4:603:ALA:HA	1:4:607:MET:HE1	2.01	0.42
1:f:254:ASN:HD21	1:f:279:SER:HB3	1.83	0.42
1:f:426:SER:HB2	1:f:731:THR:CG2	2.48	0.42
1:p:561:MET:HB3	1:p:728:PRO:HD3	2.00	0.42
1:u:603:ALA:HA	1:u:607:MET:HE1	2.01	0.42
1:g:521:ASN:HA	1:g:522:PRO:HA	1.90	0.42
1:g:617:GLN:HE22	1:g:728:PRO:HA	1.84	0.42
1:v:480:TRP:CE2	1:6:625:PRO:HD3	2.54	0.42
1:0:561:MET:HB3	1:0:728:PRO:HD3	2.00	0.42
1:0:697:TRP:CH2	1:V:369:PRO:HD3	2.55	0.42
1:m:561:MET:HG2	1:m:728:PRO:HD3	1.99	0.42
1:r:561:MET:HB3	1:r:728:PRO:HD3	2.00	0.42
1:2:314:LEU:HA	1:2:684:GLU:O	2.19	0.42
1:F:243:THR:HB	1:F:684:GLU:HG3	2.01	0.42
1:J:369:PRO:HD3	1:R:697:TRP:CH2	2.54	0.42
1:J:617:GLN:HE22	1:J:728:PRO:HA	1.84	0.42
1:N:571:THR:HG23	1:N:608:VAL:HG23	2.01	0.42
1:V:561:MET:HB3	1:V:728:PRO:HD3	2.00	0.42
1:Z:617:GLN:HE22	1:Z:728:PRO:HA	1.84	0.42
1:K:571:THR:HG23	1:K:608:VAL:HG23	2.01	0.42
1:K:617:GLN:HE22	1:K:728:PRO:HA	1.84	0.42
1:O:325:GLU:HG3	1:O:673:ILE:CG2	2.49	0.42
1:W:555:ALA:N	1:a:465:PHE:O	2.48	0.42
1:W:561:MET:HB3	1:W:728:PRO:HD3	2.00	0.42
1:H:314:LEU:HA	1:H:684:GLU:O	2.19	0.42
1:H:561:MET:HB3	1:H:728:PRO:HD3	2.00	0.42
1:H:617:GLN:HE22	1:H:728:PRO:HA	1.84	0.42
1:P:314:LEU:HA	1:P:684:GLU:O	2.20	0.42
1:P:372:VAL:HG12	1:M:669:LEU:HD12	2.01	0.42
1:T:314:LEU:HA	1:T:684:GLU:O	2.19	0.42
1:X:603:ALA:HA	1:X:607:MET:HE1	2.01	0.42
1:b:603:ALA:HA	1:b:607:MET:HE1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:314:LEU:HA	1:M:684:GLU:O	2.19	0.42
1:M:369:PRO:HD3	1:U:697:TRP:CH2	2.54	0.42
1:M:697:TRP:CH2	1:U:369:PRO:HD3	2.54	0.42
1:Q:296:PRO:HG2	1:Q:715:PHE:HB3	2.02	0.42
1:Q:314:LEU:HA	1:Q:684:GLU:O	2.19	0.42
1:Q:603:ALA:HA	1:Q:607:MET:HE1	2.01	0.42
1:U:314:LEU:HA	1:U:684:GLU:O	2.19	0.42
1:Y:426:SER:HB2	1:Y:731:THR:CG2	2.48	0.42
1:c:296:PRO:HG2	1:c:715:PHE:HB3	2.01	0.42
1:c:313:ARG:HG3	1:c:313:ARG:NH1	2.30	0.42
1:c:571:THR:HG23	1:c:608:VAL:HG23	2.01	0.42
1:A:325:GLU:HG3	1:A:673:ILE:CG2	2.49	0.42
1:A:697:TRP:CH2	1:C:369:PRO:HD3	2.54	0.42
1:B:243:THR:HB	1:B:684:GLU:HG3	2.00	0.42
1:C:346:PHE:HB3	1:C:403:SER:HA	2.01	0.42
1:E:250:LEU:HD22	1:E:651:ILE:HG12	2.02	0.42
1:E:437:MET:HE3	1:E:437:MET:HB3	1.93	0.42
1:d:604:LEU:O	1:d:607:MET:HB2	2.18	0.42
1:i:521:ASN:HA	1:i:522:PRO:HA	1.90	0.42
1:s:346:PHE:HB3	1:s:403:SER:HA	2.01	0.42
1:s:617:GLN:HE22	1:s:728:PRO:HA	1.84	0.42
1:3:571:THR:HG23	1:3:608:VAL:HG23	2.01	0.42
1:t:578:GLU:H	1:t:578:GLU:HG3	1.60	0.42
1:y:325:GLU:HG3	1:y:673:ILE:CG2	2.49	0.42
1:y:571:THR:HG23	1:y:608:VAL:HG23	2.01	0.42
1:y:617:GLN:HE22	1:y:728:PRO:HA	1.84	0.42
1:4:325:GLU:HG3	1:4:673:ILE:CG2	2.49	0.42
1:4:571:THR:HG23	1:4:608:VAL:HG23	2.01	0.42
1:f:427:TYR:O	1:f:732:ARG:HG2	2.18	0.42
1:f:617:GLN:HE22	1:f:728:PRO:HA	1.84	0.42
1:5:346:PHE:HB3	1:5:403:SER:HA	2.01	0.42
1:5:603:ALA:HA	1:5:607:MET:HE1	2.01	0.42
1:g:296:PRO:HG2	1:g:715:PHE:HB3	2.01	0.42
1:g:297:ARG:NE	1:W:700:GLU:HG3	2.34	0.42
1:g:314:LEU:HA	1:g:684:GLU:O	2.19	0.42
1:l:346:PHE:HB3	1:l:403:SER:HA	2.01	0.42
1:l:561:MET:HB3	1:l:728:PRO:HD3	2.01	0.42
1:l:603:ALA:HA	1:l:607:MET:HE1	2.01	0.42
1:q:275:TYR:HB2	1:q:381:LEU:HD22	2.02	0.42
1:q:296:PRO:HG2	1:q:715:PHE:HB3	2.02	0.42
1:v:617:GLN:HE22	1:v:728:PRO:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:603:ALA:HA	1:m:607:MET:HE1	2.01	0.42
1:w:254:ASN:HD21	1:w:279:SER:HB3	1.83	0.42
1:w:325:GLU:HG3	1:w:673:ILE:CG2	2.49	0.42
1:J:571:THR:HG23	1:J:608:VAL:HG23	2.01	0.42
1:N:561:MET:HB3	1:N:728:PRO:HD3	2.00	0.42
1:R:325:GLU:HG3	1:R:673:ILE:CG2	2.49	0.42
1:Z:314:LEU:HA	1:Z:684:GLU:O	2.19	0.42
1:Z:325:GLU:HG3	1:Z:673:ILE:CG2	2.49	0.42
1:Z:571:THR:HG23	1:Z:608:VAL:HG23	2.01	0.42
1:O:603:ALA:HA	1:O:607:MET:HE1	2.01	0.42
1:S:314:LEU:HA	1:S:684:GLU:O	2.19	0.42
1:S:480:TRP:CE2	1:a:625:PRO:HD3	2.54	0.42
1:S:521:ASN:HA	1:S:522:PRO:HA	1.90	0.42
1:S:545:PHE:O	1:S:561:MET:N	2.42	0.42
1:W:254:ASN:HD21	1:W:279:SER:HB3	1.83	0.42
1:W:603:ALA:HA	1:W:607:MET:HE1	2.01	0.42
1:a:314:LEU:HG	1:a:416:TYR:HB3	2.00	0.42
1:a:325:GLU:HG3	1:a:673:ILE:CG2	2.49	0.42
1:L:318:LEU:HB2	1:L:412:PHE:HB3	2.00	0.42
1:L:625:PRO:HD3	1:P:480:TRP:CE2	2.55	0.42
1:P:296:PRO:HG2	1:P:715:PHE:HB3	2.02	0.42
1:T:480:TRP:CE2	1:b:625:PRO:HD3	2.54	0.42
1:X:314:LEU:HA	1:X:684:GLU:O	2.19	0.42
1:b:571:THR:HG23	1:b:608:VAL:HG23	2.01	0.42
1:I:243:THR:HB	1:I:684:GLU:HG3	2.01	0.42
1:I:465:PHE:O	1:Q:555:ALA:N	2.48	0.42
1:M:296:PRO:HG2	1:M:715:PHE:HB3	2.02	0.42
1:M:625:PRO:HD3	1:Q:480:TRP:CE2	2.55	0.42
1:Q:318:LEU:HD23	1:Q:318:LEU:HA	1.91	0.42
1:U:275:TYR:HB2	1:U:381:LEU:HD22	2.02	0.42
1:U:325:GLU:HG3	1:U:673:ILE:CG2	2.49	0.42
1:c:243:THR:HB	1:c:684:GLU:HG3	2.00	0.42
1:A:617:GLN:HE22	1:A:728:PRO:HA	1.84	0.42
1:C:314:LEU:HA	1:C:684:GLU:O	2.19	0.42
1:C:617:GLN:HE22	1:C:728:PRO:HA	1.84	0.42
1:D:250:LEU:HD22	1:D:651:ILE:HG12	2.02	0.42
1:D:314:LEU:HA	1:D:684:GLU:O	2.19	0.42
1:d:325:GLU:HG3	1:d:673:ILE:CG2	2.49	0.42
1:i:247:THR:HB	1:i:372:VAL:HG22	2.02	0.42
1:i:325:GLU:HG3	1:i:673:ILE:CG2	2.49	0.42
1:i:346:PHE:HB3	1:i:403:SER:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:253:TYR:OH	1:3:375:ILE:O	2.26	0.42
1:3:318:LEU:HD23	1:3:318:LEU:HA	1.91	0.42
1:3:325:GLU:HG3	1:3:673:ILE:CG2	2.49	0.42
1:j:314:LEU:HA	1:j:684:GLU:O	2.19	0.42
1:t:275:TYR:HB2	1:t:381:LEU:HD22	2.02	0.42
1:t:617:GLN:HE22	1:t:728:PRO:HA	1.84	0.42
1:f:275:TYR:HB2	1:f:381:LEU:HD22	2.02	0.42
1:k:603:ALA:HA	1:k:607:MET:HE1	2.01	0.42
1:k:625:PRO:HD3	1:p:480:TRP:CE2	2.55	0.42
1:p:314:LEU:HA	1:p:684:GLU:O	2.19	0.42
1:z:296:PRO:HG2	1:z:715:PHE:HB3	2.02	0.42
1:z:325:GLU:HG3	1:z:673:ILE:CG2	2.49	0.42
1:5:275:TYR:HB2	1:5:381:LEU:HD22	2.02	0.42
1:v:247:THR:HB	1:v:372:VAL:HG22	2.02	0.42
1:v:254:ASN:HD21	1:v:279:SER:HB3	1.83	0.42
1:v:603:ALA:HA	1:v:607:MET:HE1	2.01	0.42
1:0:296:PRO:HG2	1:0:715:PHE:HB3	2.01	0.42
1:0:314:LEU:HA	1:0:684:GLU:O	2.19	0.42
1:h:426:SER:HB2	1:h:731:THR:CG2	2.48	0.42
1:r:247:THR:HB	1:r:372:VAL:HG22	2.02	0.42
1:2:254:ASN:HD21	1:2:279:SER:HB3	1.83	0.42
1:2:372:VAL:HG12	1:K:669:LEU:HD12	2.01	0.42
1:2:697:TRP:CH2	1:O:369:PRO:HD3	2.54	0.42
1:7:561:MET:HB3	1:7:728:PRO:HD3	2.00	0.42
1:R:296:PRO:HG2	1:R:715:PHE:HB3	2.01	0.42
1:R:571:THR:HG23	1:R:608:VAL:HG23	2.01	0.42
1:Z:254:ASN:HD21	1:Z:279:SER:HB3	1.84	0.42
1:K:369:PRO:HD3	1:S:697:TRP:CH2	2.54	0.42
1:K:561:MET:HB3	1:K:728:PRO:HD3	2.01	0.42
1:S:426:SER:HB2	1:S:731:THR:CG2	2.48	0.42
1:W:258:TYR:OH	1:W:399:GLU:OE1	2.18	0.42
1:W:325:GLU:HG3	1:W:673:ILE:CG2	2.49	0.42
1:a:243:THR:HB	1:a:684:GLU:HG3	2.01	0.42
1:H:325:GLU:HG3	1:H:673:ILE:CG2	2.49	0.42
1:L:325:GLU:HG3	1:L:673:ILE:CG2	2.49	0.42
1:L:369:PRO:HD3	1:T:697:TRP:CH2	2.54	0.42
1:L:669:LEU:HD12	1:Q:372:VAL:HG12	2.00	0.42
1:P:247:THR:HB	1:P:372:VAL:HG22	2.02	0.42
1:T:571:THR:HG23	1:T:608:VAL:HG23	2.01	0.42
1:X:561:MET:HB3	1:X:728:PRO:HD3	2.00	0.42
1:I:480:TRP:CE2	1:Q:625:PRO:HD3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:625:PRO:HD3	1:M:480:TRP:CE2	2.53	0.42
1:M:346:PHE:HB3	1:M:403:SER:HA	2.01	0.42
1:U:243:THR:HB	1:U:684:GLU:HG3	2.00	0.42
1:U:578:GLU:H	1:U:578:GLU:HG3	1.60	0.42
1:Y:247:THR:HB	1:Y:372:VAL:HG22	2.02	0.42
1:c:325:GLU:HG3	1:c:673:ILE:CG2	2.49	0.42
1:l:465:PHE:O	1:B:555:ALA:N	2.48	0.42
1:l:617:GLN:HE22	1:l:728:PRO:HA	1.84	0.42
1:A:603:ALA:HA	1:A:607:MET:HE1	2.01	0.42
1:A:625:PRO:HD3	1:B:480:TRP:CE2	2.55	0.42
1:C:545:PHE:O	1:C:561:MET:N	2.42	0.42
1:E:426:SER:HB2	1:E:731:THR:CG2	2.48	0.42
1:x:250:LEU:HD22	1:x:651:ILE:HG12	2.02	0.42
1:3:296:PRO:HG2	1:3:715:PHE:HB3	2.02	0.42
1:j:697:TRP:CH2	1:t:369:PRO:HD3	2.54	0.42
1:y:243:THR:HB	1:y:684:GLU:HG3	2.00	0.42
1:4:243:THR:HB	1:4:684:GLU:HG3	2.01	0.42
1:f:561:MET:HB3	1:f:728:PRO:HD3	2.00	0.42
1:k:369:PRO:HD3	1:u:697:TRP:CH2	2.54	0.42
1:z:250:LEU:HD22	1:z:651:ILE:HG12	2.02	0.42
1:z:314:LEU:HA	1:z:684:GLU:O	2.19	0.42
1:l:247:THR:HB	1:l:372:VAL:HG22	2.02	0.42
1:l:325:GLU:HG3	1:l:673:ILE:CG2	2.49	0.42
1:v:296:PRO:HG2	1:v:715:PHE:HB3	2.01	0.42
1:m:325:GLU:HG3	1:m:673:ILE:CG2	2.49	0.42
1:r:314:LEU:HA	1:r:684:GLU:O	2.19	0.42
1:r:372:VAL:HG12	1:Y:669:LEU:HD12	2.02	0.42
1:r:603:ALA:HA	1:r:607:MET:HE1	2.01	0.42
1:2:555:ALA:N	1:7:465:PHE:O	2.48	0.42
1:7:314:LEU:HA	1:7:684:GLU:O	2.19	0.42
1:7:571:THR:HG23	1:7:608:VAL:HG23	2.01	0.42
1:J:247:THR:HB	1:J:372:VAL:HG22	2.02	0.42
1:J:325:GLU:HG3	1:J:673:ILE:CG2	2.49	0.42
1:N:603:ALA:HA	1:N:607:MET:HE1	2.01	0.42
1:G:480:TRP:CE2	1:O:625:PRO:HD3	2.54	0.42
1:K:254:ASN:HD21	1:K:279:SER:HB3	1.83	0.42
1:O:545:PHE:O	1:O:561:MET:N	2.42	0.42
1:O:571:THR:HG23	1:O:608:VAL:HG23	2.01	0.42
1:a:275:TYR:HB2	1:a:381:LEU:HD22	2.02	0.42
1:a:578:GLU:H	1:a:578:GLU:HG3	1.60	0.42
1:H:296:PRO:HG2	1:H:715:PHE:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:254:ASN:HD21	1:L:279:SER:HB3	1.83	0.42
1:X:617:GLN:HE22	1:X:728:PRO:HA	1.84	0.42
1:b:247:THR:HB	1:b:372:VAL:HG22	2.02	0.42
1:b:314:LEU:HA	1:b:684:GLU:O	2.19	0.42
1:b:561:MET:HB3	1:b:728:PRO:HD3	2.00	0.42
1:Q:250:LEU:HD22	1:Q:651:ILE:HG12	2.02	0.42
1:U:296:PRO:HG2	1:U:715:PHE:HB3	2.01	0.42
1:1:275:TYR:HB2	1:1:381:LEU:HD22	2.02	0.42
1:1:482:PRO:HB3	1:B:513:LEU:HD13	2.02	0.42
1:1:673:ILE:HD11	1:C:335:ILE:HG21	2.01	0.42
1:B:325:GLU:HG3	1:B:673:ILE:CG2	2.49	0.42
1:B:346:PHE:HB3	1:B:403:SER:HA	2.01	0.42
1:D:247:THR:HB	1:D:372:VAL:HG22	2.02	0.42
1:D:561:MET:HB3	1:D:728:PRO:HD3	2.00	0.42
1:D:697:TRP:CH2	1:o:369:PRO:HD3	2.54	0.42
1:d:247:THR:HB	1:d:372:VAL:HG22	2.02	0.42
1:i:314:LEU:HA	1:i:684:GLU:O	2.19	0.42
1:x:247:THR:HB	1:x:372:VAL:HG22	2.02	0.42
1:x:673:ILE:HD11	1:e:335:ILE:HG21	2.01	0.42
1:e:465:PHE:O	1:o:555:ALA:N	2.48	0.42
1:e:673:ILE:HD11	1:t:335:ILE:HG21	2.01	0.42
1:j:625:PRO:HD3	1:o:480:TRP:CE2	2.55	0.42
1:4:296:PRO:HG2	1:4:715:PHE:HB3	2.02	0.42
1:f:482:PRO:HB3	1:p:513:LEU:HD13	2.02	0.42
1:p:243:THR:HB	1:p:684:GLU:HG3	2.00	0.42
1:p:247:THR:HB	1:p:372:VAL:HG22	2.02	0.42
1:p:250:LEU:HD22	1:p:651:ILE:HG12	2.02	0.42
1:p:617:GLN:HE22	1:p:728:PRO:HA	1.84	0.42
1:u:482:PRO:HB3	1:5:513:LEU:HD13	2.02	0.42
1:u:571:THR:HG23	1:u:608:VAL:HG23	2.01	0.42
1:g:561:MET:HB3	1:g:728:PRO:HD3	2.00	0.42
1:l:243:THR:HB	1:l:684:GLU:HG3	2.00	0.42
1:q:346:PHE:HB3	1:q:403:SER:HA	2.01	0.42
1:0:275:TYR:HB2	1:0:381:LEU:HD22	2.02	0.42
1:h:480:TRP:CE2	1:r:625:PRO:HD3	2.54	0.42
1:h:700:GLU:HG3	1:N:297:ARG:NE	2.35	0.42
1:m:275:TYR:HB2	1:m:381:LEU:HD22	2.02	0.42
1:m:437:MET:HE3	1:m:437:MET:HB3	1.93	0.42
1:m:571:THR:HG23	1:m:608:VAL:HG23	2.01	0.42
1:m:697:TRP:CH2	1:w:369:PRO:HD3	2.54	0.42
1:w:482:PRO:HB3	1:7:513:LEU:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:571:THR:HG23	1:w:608:VAL:HG23	2.01	0.42
1:2:247:THR:HB	1:2:372:VAL:HG22	2.02	0.42
1:2:617:GLN:HE22	1:2:728:PRO:HA	1.84	0.42
1:F:314:LEU:HA	1:F:684:GLU:O	2.19	0.42
1:F:482:PRO:HB3	1:N:513:LEU:HD13	2.02	0.42
1:N:275:TYR:HB2	1:N:381:LEU:HD22	2.02	0.42
1:R:247:THR:HB	1:R:372:VAL:HG22	2.02	0.42
1:V:254:ASN:HD21	1:V:279:SER:HB3	1.83	0.42
1:V:325:GLU:HG3	1:V:673:ILE:CG2	2.49	0.42
1:G:314:LEU:HA	1:G:684:GLU:O	2.19	0.42
1:K:296:PRO:HG2	1:K:715:PHE:HB3	2.02	0.42
1:S:243:THR:HB	1:S:684:GLU:HG3	2.00	0.42
1:W:243:THR:HB	1:W:684:GLU:HG3	2.01	0.42
1:W:275:TYR:HB2	1:W:381:LEU:HD22	2.02	0.42
1:W:437:MET:HE3	1:W:437:MET:HB3	1.93	0.42
1:a:250:LEU:HD22	1:a:651:ILE:HG12	2.02	0.42
1:a:561:MET:HB3	1:a:728:PRO:HD3	2.00	0.42
1:H:275:TYR:HB2	1:H:381:LEU:HD22	2.02	0.42
1:L:673:ILE:HD11	1:Q:335:ILE:HG21	2.02	0.42
1:P:250:LEU:HD22	1:P:651:ILE:HG12	2.02	0.42
1:P:346:PHE:HB3	1:P:403:SER:HA	2.01	0.42
1:P:617:GLN:HE22	1:P:728:PRO:HA	1.84	0.42
1:I:346:PHE:HB3	1:I:403:SER:HA	2.01	0.42
1:M:275:TYR:HB2	1:M:381:LEU:HD22	2.02	0.42
1:Y:325:GLU:HG3	1:Y:673:ILE:CG2	2.49	0.42
1:Y:545:PHE:O	1:Y:561:MET:N	2.42	0.42
1:c:437:MET:HE3	1:c:437:MET:HB3	1.93	0.42
1:l:314:LEU:HA	1:l:684:GLU:O	2.19	0.42
1:l:513:LEU:HD13	1:A:482:PRO:HB3	2.02	0.42
1:D:296:PRO:HG2	1:D:715:PHE:HB3	2.01	0.42
1:E:561:MET:HB3	1:E:728:PRO:HD3	2.01	0.42
1:d:482:PRO:HB3	1:n:513:LEU:HD13	2.02	0.42
1:s:552:ARG:NH2	1:x:442:ASP:OD1	2.51	0.42
1:x:617:GLN:HE22	1:x:728:PRO:HA	1.84	0.42
1:3:275:TYR:HB2	1:3:381:LEU:HD22	2.02	0.42
1:e:314:LEU:HA	1:e:684:GLU:O	2.19	0.42
1:e:571:THR:HG23	1:e:608:VAL:HG23	2.01	0.42
1:y:625:PRO:HD3	1:4:480:TRP:CE2	2.55	0.42
1:4:247:THR:HB	1:4:372:VAL:HG22	2.02	0.42
1:4:275:TYR:HB2	1:4:381:LEU:HD22	2.02	0.42
1:f:346:PHE:HB3	1:f:403:SER:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:325:GLU:HG3	1:k:673:ILE:CG2	2.49	0.42
1:u:247:THR:HB	1:u:372:VAL:HG22	2.02	0.42
1:u:346:PHE:HB3	1:u:403:SER:HA	2.01	0.42
1:g:437:MET:HE3	1:g:437:MET:HB3	1.93	0.42
1:g:482:PRO:HB3	1:q:513:LEU:HD13	2.02	0.42
1:l:250:LEU:HD22	1:l:651:ILE:HG12	2.02	0.42
1:q:432:SER:OG	1:q:434:ASP:OD1	2.24	0.42
1:v:426:SER:HB2	1:v:731:THR:CG2	2.48	0.42
1:0:617:GLN:HE22	1:0:728:PRO:HA	1.84	0.42
1:h:243:THR:HB	1:h:684:GLU:HG3	2.01	0.42
1:h:250:LEU:HD22	1:h:651:ILE:HG12	2.02	0.42
1:h:513:LEU:HD13	1:m:482:PRO:HB3	2.02	0.42
1:h:571:THR:HG23	1:h:608:VAL:HG23	2.01	0.42
1:m:247:THR:HB	1:m:372:VAL:HG22	2.02	0.42
1:m:669:LEU:HD12	1:c:372:VAL:HG12	2.02	0.42
1:2:625:PRO:HD3	1:7:480:TRP:CE2	2.55	0.42
1:F:437:MET:HE3	1:F:437:MET:HB3	1.93	0.42
1:R:250:LEU:HD22	1:R:651:ILE:HG12	2.02	0.42
1:V:243:THR:HB	1:V:684:GLU:HG3	2.00	0.42
1:V:603:ALA:HA	1:V:607:MET:HE1	2.01	0.42
1:Z:243:THR:HB	1:Z:684:GLU:HG3	2.01	0.42
1:Z:247:THR:HB	1:Z:372:VAL:HG22	2.02	0.42
1:Z:296:PRO:HG2	1:Z:715:PHE:HB3	2.01	0.42
1:K:275:TYR:HB2	1:K:381:LEU:HD22	2.02	0.42
1:S:552:ARG:NH2	1:W:442:ASP:OD1	2.52	0.42
1:a:603:ALA:HA	1:a:607:MET:HE1	2.01	0.42
1:L:247:THR:HB	1:L:372:VAL:HG22	2.02	0.42
1:X:247:THR:HB	1:X:372:VAL:HG22	2.02	0.42
1:X:325:GLU:HG3	1:X:673:ILE:CG2	2.49	0.42
1:M:250:LEU:HD22	1:M:651:ILE:HG12	2.02	0.42
1:Q:243:THR:HB	1:Q:684:GLU:HG3	2.00	0.42
1:Y:275:TYR:HB2	1:Y:381:LEU:HD22	2.02	0.42
1:Y:296:PRO:HG2	1:Y:715:PHE:HB3	2.02	0.42
1:c:250:LEU:HD22	1:c:651:ILE:HG12	2.02	0.42
1:c:254:ASN:HD21	1:c:279:SER:HB3	1.83	0.42
1:1:325:GLU:HG3	1:1:673:ILE:CG2	2.49	0.42
1:1:346:PHE:HB3	1:1:403:SER:HA	2.01	0.42
1:1:545:PHE:O	1:1:561:MET:N	2.42	0.42
1:1:578:GLU:H	1:1:578:GLU:HG3	1.60	0.42
1:A:314:LEU:HA	1:A:684:GLU:O	2.19	0.42
1:B:247:THR:HB	1:B:372:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:247:THR:HB	1:C:372:VAL:HG22	2.02	0.42
1:C:275:TYR:HB2	1:C:381:LEU:HD22	2.02	0.42
1:C:482:PRO:HB3	1:E:513:LEU:HD13	2.02	0.42
1:C:561:MET:HB3	1:C:728:PRO:HD3	2.00	0.42
1:E:603:ALA:HA	1:E:607:MET:HE1	2.01	0.42
1:d:275:TYR:HB2	1:d:381:LEU:HD22	2.02	0.42
1:d:617:GLN:HE22	1:d:728:PRO:HA	1.84	0.42
1:i:617:GLN:HE22	1:i:728:PRO:HA	1.84	0.42
1:n:250:LEU:HD22	1:n:651:ILE:HG12	2.02	0.42
1:n:617:GLN:HE22	1:n:728:PRO:HA	1.84	0.42
1:s:314:LEU:HA	1:s:684:GLU:O	2.19	0.42
1:x:296:PRO:HG2	1:x:715:PHE:HB3	2.02	0.42
1:3:247:THR:HB	1:3:372:VAL:HG22	2.02	0.42
1:e:250:LEU:HD22	1:e:651:ILE:HG12	2.02	0.42
1:o:275:TYR:HB2	1:o:381:LEU:HD22	2.02	0.42
1:o:314:LEU:HA	1:o:684:GLU:O	2.19	0.42
1:t:243:THR:HB	1:t:684:GLU:HG3	2.00	0.42
1:y:296:PRO:HG2	1:y:715:PHE:HB3	2.01	0.42
1:y:346:PHE:HB3	1:y:403:SER:HA	2.01	0.42
1:4:250:LEU:HD22	1:4:651:ILE:HG12	2.02	0.42
1:f:250:LEU:HD22	1:f:651:ILE:HG12	2.02	0.42
1:f:555:ALA:N	1:k:465:PHE:O	2.49	0.42
1:z:578:GLU:H	1:z:578:GLU:HG3	1.60	0.42
1:g:325:GLU:HG3	1:g:673:ILE:CG2	2.49	0.42
1:l:275:TYR:HB2	1:l:381:LEU:HD22	2.02	0.42
1:l:545:PHE:O	1:l:561:MET:N	2.42	0.42
1:q:243:THR:HB	1:q:684:GLU:HG3	2.01	0.42
1:q:247:THR:HB	1:q:372:VAL:HG22	2.02	0.42
1:q:603:ALA:HA	1:q:607:MET:HE1	2.01	0.42
1:0:250:LEU:HD22	1:0:651:ILE:HG12	2.02	0.42
1:0:571:THR:HG23	1:0:608:VAL:HG23	2.01	0.42
1:h:254:ASN:HD21	1:h:279:SER:HB3	1.83	0.42
1:h:578:GLU:H	1:h:578:GLU:HG3	1.60	0.42
1:w:250:LEU:HD22	1:w:651:ILE:HG12	2.02	0.42
1:w:561:MET:HB3	1:w:728:PRO:HD3	2.01	0.42
1:J:275:TYR:HB2	1:J:381:LEU:HD22	2.02	0.42
1:J:346:PHE:HB3	1:J:403:SER:HA	2.01	0.42
1:V:247:THR:HB	1:V:372:VAL:HG22	2.02	0.42
1:V:314:LEU:HA	1:V:684:GLU:O	2.19	0.42
1:V:578:GLU:H	1:V:578:GLU:HG3	1.60	0.42
1:V:617:GLN:HE22	1:V:728:PRO:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:247:THR:HB	1:G:372:VAL:HG22	2.02	0.42
1:K:346:PHE:HB3	1:K:403:SER:HA	2.01	0.42
1:K:697:TRP:CH2	1:S:369:PRO:HD3	2.54	0.42
1:S:325:GLU:HG3	1:S:673:ILE:CG2	2.49	0.42
1:H:480:TRP:CE2	1:P:625:PRO:HD3	2.54	0.42
1:L:250:LEU:HD22	1:L:651:ILE:HG12	2.02	0.42
1:L:275:TYR:HB2	1:L:381:LEU:HD22	2.02	0.42
1:L:555:ALA:N	1:P:465:PHE:O	2.49	0.42
1:L:697:TRP:CH2	1:T:369:PRO:HD3	2.54	0.42
1:b:325:GLU:HG3	1:b:673:ILE:CG2	2.49	0.42
1:b:521:ASN:HA	1:b:522:PRO:HA	1.90	0.42
1:b:617:GLN:HE22	1:b:728:PRO:HA	1.84	0.42
1:I:275:TYR:HB2	1:I:381:LEU:HD22	2.02	0.42
1:I:617:GLN:HE22	1:I:728:PRO:HA	1.84	0.42
1:U:250:LEU:HD22	1:U:651:ILE:HG12	2.02	0.42
1:A:578:GLU:H	1:A:578:GLU:HG3	1.60	0.42
1:D:709:LYS:HA	1:j:390:VAL:HA	2.02	0.42
1:d:571:THR:HG23	1:d:608:VAL:HG23	2.01	0.42
1:d:669:LEU:HD12	1:s:372:VAL:HG12	2.01	0.42
1:i:369:PRO:HD3	1:s:697:TRP:CH2	2.54	0.42
1:i:625:PRO:HD3	1:n:480:TRP:CE2	2.55	0.42
1:s:313:ARG:HG3	1:s:313:ARG:NH1	2.30	0.42
1:s:437:MET:HE3	1:s:437:MET:HB3	1.93	0.42
1:s:669:LEU:HD12	1:Y:372:VAL:HG12	2.02	0.42
1:x:625:PRO:HD3	1:3:480:TRP:CE2	2.55	0.42
1:j:296:PRO:HG2	1:j:715:PHE:HB3	2.02	0.42
1:j:617:GLN:HE22	1:j:728:PRO:HA	1.84	0.42
1:o:346:PHE:HB3	1:o:403:SER:HA	2.01	0.42
1:o:426:SER:HB2	1:o:731:THR:CG2	2.48	0.42
1:t:603:ALA:HA	1:t:607:MET:HE1	2.01	0.42
1:4:617:GLN:HE22	1:4:728:PRO:HA	1.84	0.42
1:u:275:TYR:HB2	1:u:381:LEU:HD22	2.02	0.42
1:u:314:LEU:HA	1:u:684:GLU:O	2.19	0.42
1:u:617:GLN:HE22	1:u:728:PRO:HA	1.84	0.42
1:z:495:THR:HG22	1:5:463:LEU:HG	2.02	0.42
1:l:296:PRO:HG2	1:l:715:PHE:HB3	2.01	0.42
1:l:625:PRO:HD3	1:q:480:TRP:CE2	2.55	0.42
1:q:253:TYR:OH	1:q:375:ILE:O	2.26	0.42
1:h:346:PHE:HB3	1:h:403:SER:HA	2.01	0.42
1:m:625:PRO:HD3	1:r:480:TRP:CE2	2.55	0.42
1:r:617:GLN:HE22	1:r:728:PRO:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:405:MET:HE2	1:w:405:MET:HB3	1.97	0.42
1:F:521:ASN:HA	1:F:522:PRO:HA	1.90	0.42
1:F:603:ALA:HA	1:F:607:MET:HE1	2.01	0.42
1:J:253:TYR:OH	1:J:375:ILE:O	2.26	0.42
1:R:480:TRP:CE2	1:Z:625:PRO:HD3	2.54	0.42
1:V:250:LEU:HD22	1:V:651:ILE:HG12	2.02	0.42
1:Z:250:LEU:HD22	1:Z:651:ILE:HG12	2.02	0.42
1:Z:275:TYR:HB2	1:Z:381:LEU:HD22	2.02	0.42
1:G:482:PRO:HB3	1:O:513:LEU:HD13	2.02	0.42
1:O:346:PHE:HB3	1:O:403:SER:HA	2.01	0.42
1:H:247:THR:HB	1:H:372:VAL:HG22	2.02	0.42
1:T:296:PRO:HG2	1:T:715:PHE:HB3	2.01	0.42
1:T:513:LEU:HD13	1:X:482:PRO:HB3	2.02	0.42
1:X:346:PHE:HB3	1:X:403:SER:HA	2.01	0.42
1:X:625:PRO:HD3	1:b:480:TRP:CE2	2.55	0.42
1:I:314:LEU:HA	1:I:684:GLU:O	2.19	0.42
1:I:437:MET:HE3	1:I:437:MET:HB3	1.93	0.42
1:Q:275:TYR:HB2	1:Q:381:LEU:HD22	2.02	0.42
1:Y:314:LEU:HA	1:Y:684:GLU:O	2.19	0.42
1:A:250:LEU:HD22	1:A:651:ILE:HG12	2.02	0.41
1:A:625:PRO:HB3	1:B:738:LEU:HD22	2.02	0.41
1:d:603:ALA:HA	1:d:607:MET:HE1	2.01	0.41
1:i:603:ALA:HA	1:i:607:MET:HE1	2.01	0.41
1:i:625:PRO:HB3	1:n:738:LEU:HD22	2.02	0.41
1:n:275:TYR:HB2	1:n:381:LEU:HD22	2.02	0.41
1:x:314:LEU:HA	1:x:684:GLU:O	2.19	0.41
1:x:669:LEU:HD12	1:e:372:VAL:HG12	2.02	0.41
1:e:243:THR:HB	1:e:684:GLU:HG3	2.01	0.41
1:e:482:PRO:HB3	1:o:513:LEU:HD13	2.02	0.41
1:j:247:THR:HB	1:j:372:VAL:HG22	2.02	0.41
1:j:625:PRO:HB3	1:o:738:LEU:HD22	2.02	0.41
1:j:706:ASN:O	1:4:391:GLY:HA3	2.20	0.41
1:o:571:THR:HG23	1:o:608:VAL:HG23	2.01	0.41
1:t:250:LEU:HD22	1:t:651:ILE:HG12	2.02	0.41
1:4:314:LEU:HA	1:4:684:GLU:O	2.19	0.41
1:f:325:GLU:HG3	1:f:673:ILE:CG2	2.49	0.41
1:k:673:ILE:HD11	1:q:335:ILE:HG21	2.02	0.41
1:g:247:THR:HB	1:g:372:VAL:HG22	2.02	0.41
1:l:313:ARG:HG3	1:l:313:ARG:NH1	2.30	0.41
1:v:314:LEU:HA	1:v:684:GLU:O	2.19	0.41
1:0:709:LYS:HA	1:R:390:VAL:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:617:GLN:HE22	1:6:728:PRO:HA	1.84	0.41
1:h:247:THR:HB	1:h:372:VAL:HG22	2.02	0.41
1:m:314:LEU:HA	1:m:684:GLU:O	2.19	0.41
1:w:617:GLN:HE22	1:w:728:PRO:HA	1.84	0.41
1:2:636:LEU:HD23	1:2:636:LEU:HA	1.89	0.41
1:7:578:GLU:H	1:7:578:GLU:HG3	1.60	0.41
1:7:603:ALA:HA	1:7:607:MET:HE1	2.01	0.41
1:K:625:PRO:HB3	1:O:738:LEU:HD22	2.02	0.41
1:O:250:LEU:HD22	1:O:651:ILE:HG12	2.02	0.41
1:S:275:TYR:HB2	1:S:381:LEU:HD22	2.02	0.41
1:S:318:LEU:HD23	1:S:318:LEU:HA	1.90	0.41
1:W:495:THR:HG22	1:a:463:LEU:HG	2.02	0.41
1:H:437:MET:HE3	1:H:437:MET:HB3	1.93	0.41
1:X:495:THR:HG22	1:b:463:LEU:HG	2.02	0.41
1:M:706:ASN:O	1:c:391:GLY:HA3	2.20	0.41
1:Y:555:ALA:N	1:c:465:PHE:O	2.48	0.41
1:Y:625:PRO:HD3	1:c:480:TRP:CE2	2.55	0.41
1:D:603:ALA:HA	1:D:607:MET:HE1	2.01	0.41
1:D:625:PRO:HB3	1:E:738:LEU:HD22	2.02	0.41
1:E:275:TYR:HB2	1:E:381:LEU:HD22	2.02	0.41
1:E:578:GLU:H	1:E:578:GLU:HG3	1.60	0.41
1:d:296:PRO:HG2	1:d:715:PHE:HB3	2.01	0.41
1:d:314:LEU:HA	1:d:684:GLU:O	2.19	0.41
1:i:571:THR:HG23	1:i:608:VAL:HG23	2.01	0.41
1:s:571:THR:HG23	1:s:608:VAL:HG23	2.01	0.41
1:x:603:ALA:HA	1:x:607:MET:HE1	2.01	0.41
1:x:625:PRO:HB3	1:3:738:LEU:HD22	2.02	0.41
1:e:513:LEU:HD13	1:j:482:PRO:HB3	2.02	0.41
1:t:571:THR:HG23	1:t:608:VAL:HG23	2.01	0.41
1:k:669:LEU:HD12	1:q:372:VAL:HG12	2.00	0.41
1:p:372:VAL:HG12	1:l:669:LEU:HD12	2.01	0.41
1:p:603:ALA:HA	1:p:607:MET:HE1	2.01	0.41
1:5:247:THR:HB	1:5:372:VAL:HG22	2.02	0.41
1:5:296:PRO:HG2	1:5:715:PHE:HB3	2.02	0.41
1:l:571:THR:HG23	1:l:608:VAL:HG23	2.01	0.41
1:v:250:LEU:HD22	1:v:651:ILE:HG12	2.02	0.41
1:6:603:ALA:HA	1:6:607:MET:HE1	2.01	0.41
1:h:603:ALA:HA	1:h:607:MET:HE1	2.01	0.41
1:2:250:LEU:HD22	1:2:651:ILE:HG12	2.02	0.41
1:2:346:PHE:HB3	1:2:403:SER:HA	2.01	0.41
1:J:625:PRO:HD3	1:N:480:TRP:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:617:GLN:HE22	1:R:728:PRO:HA	1.84	0.41
1:Z:437:MET:HE3	1:Z:437:MET:HB3	1.93	0.41
1:G:275:TYR:HB2	1:G:381:LEU:HD22	2.02	0.41
1:O:617:GLN:HE22	1:O:728:PRO:HA	1.84	0.41
1:W:296:PRO:HG2	1:W:715:PHE:HB3	2.01	0.41
1:a:247:THR:HB	1:a:372:VAL:HG22	2.02	0.41
1:H:555:ALA:N	1:L:465:PHE:O	2.49	0.41
1:L:706:ASN:O	1:b:391:GLY:HA3	2.20	0.41
1:T:482:PRO:HB3	1:b:513:LEU:HD13	2.02	0.41
1:I:482:PRO:HB3	1:Q:513:LEU:HD13	2.02	0.41
1:M:325:GLU:HG3	1:M:673:ILE:CG2	2.49	0.41
1:M:571:THR:HG23	1:M:608:VAL:HG23	2.01	0.41
1:Q:247:THR:HB	1:Q:372:VAL:HG22	2.02	0.41
1:U:247:THR:HB	1:U:372:VAL:HG22	2.02	0.41
1:Y:346:PHE:HB3	1:Y:403:SER:HA	2.01	0.41
1:l:250:LEU:HD22	1:l:651:ILE:HG12	2.02	0.41
1:l:700:GLU:HG3	1:n:297:ARG:NE	2.35	0.41
1:D:426:SER:OG	1:D:426:SER:O	2.31	0.41
1:d:399:GLU:OE1	1:d:399:GLU:N	2.54	0.41
1:n:247:THR:HB	1:n:372:VAL:HG22	2.02	0.41
1:x:318:LEU:HD23	1:x:318:LEU:HA	1.90	0.41
1:e:247:THR:HB	1:e:372:VAL:HG22	2.02	0.41
1:e:555:ALA:N	1:j:465:PHE:O	2.49	0.41
1:o:603:ALA:HA	1:o:607:MET:HE1	2.01	0.41
1:y:625:PRO:HB3	1:4:738:LEU:HD22	2.02	0.41
1:y:700:GLU:HG3	1:I:297:ARG:NE	2.35	0.41
1:4:346:PHE:HB3	1:4:403:SER:HA	2.01	0.41
1:4:372:VAL:HG12	1:u:669:LEU:HD12	2.01	0.41
1:4:545:PHE:O	1:4:561:MET:N	2.42	0.41
1:g:250:LEU:HD22	1:g:651:ILE:HG12	2.02	0.41
1:g:603:ALA:HA	1:g:607:MET:HE1	2.01	0.41
1:v:482:PRO:HB3	1:6:513:LEU:HD13	2.02	0.41
1:0:231:CYS:HB2	1:R:399:GLU:O	2.20	0.41
1:0:625:PRO:HD3	1:6:480:TRP:CE2	2.55	0.41
1:0:625:PRO:HB3	1:6:738:LEU:HD22	2.02	0.41
1:0:700:GLU:HG3	1:V:297:ARG:NE	2.35	0.41
1:6:250:LEU:HD22	1:6:651:ILE:HG12	2.02	0.41
1:6:314:LEU:HA	1:6:684:GLU:O	2.19	0.41
1:6:325:GLU:HG3	1:6:673:ILE:CG2	2.49	0.41
1:m:405:MET:HE2	1:m:405:MET:HB3	1.97	0.41
1:r:275:TYR:HB2	1:r:381:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:296:PRO:HG2	1:r:715:PHE:HB3	2.01	0.41
1:w:437:MET:HE3	1:w:437:MET:HB3	1.93	0.41
1:w:513:LEU:HD13	1:2:482:PRO:HB3	2.02	0.41
1:2:513:LEU:HD13	1:7:482:PRO:HB3	2.03	0.41
1:F:513:LEU:HD13	1:J:482:PRO:HB3	2.02	0.41
1:J:437:MET:HE3	1:J:437:MET:HB3	1.93	0.41
1:V:296:PRO:HG2	1:V:715:PHE:HB3	2.01	0.41
1:V:346:PHE:HB3	1:V:403:SER:HA	2.01	0.41
1:V:625:PRO:HD3	1:Z:480:TRP:CE2	2.55	0.41
1:K:625:PRO:HD3	1:O:480:TRP:CE2	2.55	0.41
1:W:314:LEU:HA	1:W:684:GLU:O	2.19	0.41
1:W:399:GLU:OE1	1:W:399:GLU:N	2.54	0.41
1:H:603:ALA:HA	1:H:607:MET:HE1	2.01	0.41
1:X:513:LEU:HD13	1:b:482:PRO:HB3	2.03	0.41
1:b:250:LEU:HD22	1:b:651:ILE:HG12	2.02	0.41
1:I:513:LEU:HD13	1:M:482:PRO:HB3	2.02	0.41
1:Q:571:THR:HG23	1:Q:608:VAL:HG23	2.01	0.41
1:Q:617:GLN:HE22	1:Q:728:PRO:HA	1.84	0.41
1:Y:313:ARG:HG3	1:Y:313:ARG:NH1	2.30	0.41
1:Y:432:SER:OG	1:Y:434:ASP:OD1	2.24	0.41
1:B:275:TYR:HB2	1:B:381:LEU:HD22	2.02	0.41
1:B:314:LEU:HA	1:B:684:GLU:O	2.19	0.41
1:E:700:GLU:HG3	1:f:297:ARG:NE	2.36	0.41
1:d:545:PHE:O	1:d:561:MET:N	2.42	0.41
1:d:555:ALA:N	1:i:465:PHE:O	2.49	0.41
1:j:275:TYR:HB2	1:j:381:LEU:HD22	2.02	0.41
1:o:250:LEU:HD22	1:o:651:ILE:HG12	2.02	0.41
1:o:437:MET:HE3	1:o:437:MET:HB3	1.93	0.41
1:f:603:ALA:HA	1:f:607:MET:HE1	2.01	0.41
1:k:697:TRP:CH2	1:u:369:PRO:HD3	2.54	0.41
1:p:437:MET:HE3	1:p:437:MET:HB3	1.93	0.41
1:u:399:GLU:OE1	1:u:399:GLU:N	2.54	0.41
1:z:399:GLU:OE1	1:z:399:GLU:N	2.54	0.41
1:z:571:THR:HG23	1:z:608:VAL:HG23	2.01	0.41
1:g:275:TYR:HB2	1:g:381:LEU:HD22	2.02	0.41
1:q:391:GLY:HA3	1:W:706:ASN:O	2.20	0.41
1:v:325:GLU:HG3	1:v:673:ILE:CG2	2.49	0.41
1:0:346:PHE:HB3	1:0:403:SER:HA	2.01	0.41
1:0:603:ALA:HA	1:0:607:MET:HE1	2.01	0.41
1:6:275:TYR:HB2	1:6:381:LEU:HD22	2.02	0.41
1:m:706:ASN:O	1:7:391:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:495:THR:HG22	1:7:463:LEU:HG	2.02	0.41
1:F:250:LEU:HD22	1:F:651:ILE:HG12	2.02	0.41
1:F:571:THR:HG23	1:F:608:VAL:HG23	2.01	0.41
1:J:258:TYR:OH	1:J:399:GLU:OE1	2.18	0.41
1:J:318:LEU:HD23	1:J:318:LEU:HA	1.90	0.41
1:N:247:THR:HB	1:N:372:VAL:HG22	2.02	0.41
1:N:250:LEU:HD22	1:N:651:ILE:HG12	2.02	0.41
1:N:296:PRO:HG2	1:N:715:PHE:HB3	2.01	0.41
1:V:673:ILE:HD11	1:G:335:ILE:HG21	2.01	0.41
1:K:247:THR:HB	1:K:372:VAL:HG22	2.02	0.41
1:O:247:THR:HB	1:O:372:VAL:HG22	2.02	0.41
1:O:314:LEU:HA	1:O:684:GLU:O	2.20	0.41
1:W:247:THR:HB	1:W:372:VAL:HG22	2.02	0.41
1:a:296:PRO:HG2	1:a:715:PHE:HB3	2.01	0.41
1:H:482:PRO:HB3	1:P:513:LEU:HD13	2.02	0.41
1:L:571:THR:HG23	1:L:608:VAL:HG23	2.01	0.41
1:T:465:PHE:O	1:b:555:ALA:N	2.48	0.41
1:X:625:PRO:HB3	1:b:738:LEU:HD22	2.02	0.41
1:b:275:TYR:HB2	1:b:381:LEU:HD22	2.02	0.41
1:I:250:LEU:HD22	1:I:651:ILE:HG12	2.02	0.41
1:M:247:THR:HB	1:M:372:VAL:HG22	2.02	0.41
1:Q:426:SER:OG	1:Q:426:SER:O	2.31	0.41
1:U:513:LEU:HD13	1:Y:482:PRO:HB3	2.02	0.41
1:B:372:VAL:HG12	1:0:669:LEU:HD12	2.02	0.41
1:B:561:MET:HB3	1:B:728:PRO:HD3	2.00	0.41
1:C:296:PRO:HG2	1:C:715:PHE:HB3	2.01	0.41
1:C:513:LEU:HD13	1:D:482:PRO:HB3	2.02	0.41
1:E:617:GLN:HE22	1:E:728:PRO:HA	1.84	0.41
1:d:465:PHE:O	1:n:555:ALA:N	2.48	0.41
1:i:706:ASN:O	1:3:391:GLY:HA3	2.20	0.41
1:n:603:ALA:HA	1:n:607:MET:HE1	2.01	0.41
1:s:275:TYR:HB2	1:s:381:LEU:HD22	2.02	0.41
1:x:495:THR:HG22	1:3:463:LEU:HG	2.02	0.41
1:3:250:LEU:HD22	1:3:651:ILE:HG12	2.02	0.41
1:o:636:LEU:HD23	1:o:636:LEU:HA	1.89	0.41
1:y:250:LEU:HD22	1:y:651:ILE:HG12	2.02	0.41
1:y:513:LEU:HD13	1:4:482:PRO:HB3	2.03	0.41
1:y:603:ALA:HA	1:y:607:MET:HE1	2.01	0.41
1:f:296:PRO:HG2	1:f:715:PHE:HB3	2.01	0.41
1:k:296:PRO:HG2	1:k:715:PHE:HB3	2.02	0.41
1:z:275:TYR:HB2	1:z:381:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:706:ASN:O	1:6:391:GLY:HA3	2.20	0.41
1:0:247:THR:HB	1:0:372:VAL:HG22	2.02	0.41
1:6:254:ASN:HD21	1:6:279:SER:HB3	1.83	0.41
1:6:571:THR:HG23	1:6:608:VAL:HG23	2.01	0.41
1:h:296:PRO:HG2	1:h:715:PHE:HB3	2.01	0.41
1:h:399:GLU:OE1	1:h:399:GLU:N	2.54	0.41
1:w:545:PHE:O	1:w:561:MET:N	2.42	0.41
1:7:253:TYR:OH	1:7:375:ILE:O	2.26	0.41
1:7:275:TYR:HB2	1:7:381:LEU:HD22	2.02	0.41
1:J:555:ALA:N	1:N:465:PHE:O	2.49	0.41
1:N:617:GLN:HE22	1:N:728:PRO:HA	1.84	0.41
1:K:495:THR:HG22	1:O:463:LEU:HG	2.03	0.41
1:O:275:TYR:HB2	1:O:381:LEU:HD22	2.02	0.41
1:S:247:THR:HB	1:S:372:VAL:HG22	2.02	0.41
1:S:603:ALA:HA	1:S:607:MET:HE1	2.01	0.41
1:W:625:PRO:HD3	1:a:480:TRP:CE2	2.55	0.41
1:a:617:GLN:HE22	1:a:728:PRO:HA	1.84	0.41
1:L:296:PRO:HG2	1:L:715:PHE:HB3	2.02	0.41
1:X:250:LEU:HD22	1:X:651:ILE:HG12	2.02	0.41
1:M:625:PRO:HB3	1:Q:738:LEU:HD22	2.02	0.41
1:U:571:THR:HG23	1:U:608:VAL:HG23	2.01	0.41
1:Y:250:LEU:HD22	1:Y:651:ILE:HG12	2.02	0.41
1:B:571:THR:HG23	1:B:608:VAL:HG23	2.01	0.41
1:n:318:LEU:HD23	1:n:318:LEU:HA	1.91	0.41
1:n:421:VAL:HG21	1:n:640:PHE:HB3	2.03	0.41
1:s:247:THR:HB	1:s:372:VAL:HG22	2.02	0.41
1:s:390:VAL:HA	1:Y:709:LYS:HA	2.03	0.41
1:x:369:PRO:HD3	1:Y:697:TRP:CH2	2.55	0.41
1:x:697:TRP:CH2	1:Y:369:PRO:HD3	2.55	0.41
1:y:706:ASN:O	1:Q:391:GLY:HA3	2.21	0.41
1:f:571:THR:HG23	1:f:608:VAL:HG23	2.01	0.41
1:k:571:THR:HG23	1:k:608:VAL:HG23	2.01	0.41
1:k:617:GLN:HE22	1:k:728:PRO:HA	1.84	0.41
1:p:318:LEU:HD23	1:p:318:LEU:HA	1.91	0.41
1:u:250:LEU:HD22	1:u:651:ILE:HG12	2.02	0.41
1:u:513:LEU:HD13	1:z:482:PRO:HB3	2.02	0.41
1:z:346:PHE:HB3	1:z:403:SER:HA	2.01	0.41
1:l:521:ASN:HA	1:l:522:PRO:HA	1.90	0.41
1:q:250:LEU:HD22	1:q:651:ILE:HG12	2.02	0.41
1:q:314:LEU:HA	1:q:684:GLU:O	2.19	0.41
1:q:571:THR:HG23	1:q:608:VAL:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:706:ASN:O	1:R:391:GLY:HA3	2.21	0.41
1:h:482:PRO:HB3	1:r:513:LEU:HD13	2.02	0.41
1:r:571:THR:HG23	1:r:608:VAL:HG23	2.01	0.41
1:2:325:GLU:HG3	1:2:673:ILE:CG2	2.49	0.41
1:2:399:GLU:OE1	1:2:399:GLU:N	2.54	0.41
1:2:706:ASN:O	1:K:391:GLY:HA3	2.20	0.41
1:7:617:GLN:HE22	1:7:728:PRO:HA	1.84	0.41
1:S:296:PRO:HG2	1:S:715:PHE:HB3	2.02	0.41
1:S:513:LEU:HD13	1:W:482:PRO:HB3	2.02	0.41
1:S:617:GLN:HE22	1:S:728:PRO:HA	1.84	0.41
1:L:625:PRO:HB3	1:P:738:LEU:HD22	2.02	0.41
1:P:571:THR:HG23	1:P:608:VAL:HG23	2.01	0.41
1:T:603:ALA:HA	1:T:607:MET:HE1	2.01	0.41
1:X:258:TYR:OH	1:X:399:GLU:OE1	2.18	0.41
1:1:571:THR:HG23	1:1:608:VAL:HG23	2.01	0.41
1:B:296:PRO:HG2	1:B:715:PHE:HB3	2.01	0.41
1:C:399:GLU:OE1	1:C:399:GLU:N	2.54	0.41
1:i:275:TYR:HB2	1:i:381:LEU:HD22	2.02	0.41
1:s:391:GLY:HA3	1:Y:706:ASN:O	2.21	0.41
1:x:571:THR:HG23	1:x:608:VAL:HG23	2.01	0.41
1:e:545:PHE:O	1:e:561:MET:N	2.42	0.41
1:j:495:THR:HG22	1:o:463:LEU:HG	2.03	0.41
1:k:247:THR:HB	1:k:372:VAL:HG22	2.02	0.41
1:p:571:THR:HG23	1:p:608:VAL:HG23	2.01	0.41
1:u:313:ARG:HG3	1:u:313:ARG:NH1	2.30	0.41
1:z:485:CYS:HB3	1:z:579:TYR:HB2	2.03	0.41
1:z:625:PRO:HD3	1:5:480:TRP:CE2	2.55	0.41
1:g:706:ASN:O	1:S:391:GLY:HA3	2.21	0.41
1:v:571:THR:HG23	1:v:608:VAL:HG23	2.01	0.41
1:m:625:PRO:HB3	1:r:738:LEU:HD22	2.02	0.41
1:w:247:THR:HB	1:w:372:VAL:HG22	2.02	0.41
1:F:296:PRO:HG2	1:F:715:PHE:HB3	2.01	0.41
1:F:617:GLN:HE22	1:F:728:PRO:HA	1.84	0.41
1:J:513:LEU:HD13	1:N:482:PRO:HB3	2.03	0.41
1:J:521:ASN:HA	1:J:522:PRO:HA	1.90	0.41
1:J:706:ASN:O	1:Z:391:GLY:HA3	2.20	0.41
1:N:485:CYS:HB3	1:N:579:TYR:HB2	2.03	0.41
1:Z:706:ASN:O	1:O:391:GLY:HA3	2.21	0.41
1:G:318:LEU:HD23	1:G:318:LEU:HA	1.90	0.41
1:K:555:ALA:N	1:O:465:PHE:O	2.49	0.41
1:S:250:LEU:HD22	1:S:651:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:399:GLU:OE1	1:S:399:GLU:N	2.54	0.41
1:S:482:PRO:HB3	1:a:513:LEU:HD13	2.02	0.41
1:W:521:ASN:HA	1:W:522:PRO:HA	1.90	0.41
1:a:399:GLU:OE1	1:a:399:GLU:N	2.54	0.41
1:a:571:THR:HG23	1:a:608:VAL:HG23	2.01	0.41
1:L:314:LEU:HA	1:L:684:GLU:O	2.19	0.41
1:L:617:GLN:HE22	1:L:728:PRO:HA	1.84	0.41
1:P:578:GLU:H	1:P:578:GLU:HG3	1.60	0.41
1:T:399:GLU:OE1	1:T:399:GLU:N	2.54	0.41
1:I:247:THR:HB	1:I:372:VAL:HG22	2.02	0.41
1:I:399:GLU:OE1	1:I:399:GLU:N	2.54	0.41
1:Q:421:VAL:HG21	1:Q:640:PHE:HB3	2.03	0.41
1:1:296:PRO:HG2	1:1:715:PHE:HB3	2.01	0.41
1:A:247:THR:HB	1:A:372:VAL:HG22	2.02	0.41
1:D:485:CYS:HB3	1:D:579:TYR:HB2	2.03	0.41
1:D:617:GLN:HE22	1:D:728:PRO:HA	1.84	0.41
1:D:706:ASN:O	1:j:391:GLY:HA3	2.20	0.41
1:E:247:THR:HB	1:E:372:VAL:HG22	2.02	0.41
1:E:571:THR:HG23	1:E:608:VAL:HG23	2.01	0.41
1:3:706:ASN:O	1:o:391:GLY:HA3	2.21	0.41
1:t:421:VAL:HG21	1:t:640:PHE:HB3	2.03	0.41
1:t:482:PRO:HB3	1:4:513:LEU:HD13	2.02	0.41
1:y:247:THR:HB	1:y:372:VAL:HG22	2.02	0.41
1:4:421:VAL:HG21	1:4:640:PHE:HB3	2.03	0.41
1:f:247:THR:HB	1:f:372:VAL:HG22	2.02	0.41
1:k:318:LEU:HD23	1:k:318:LEU:HA	1.91	0.41
1:k:706:ASN:O	1:5:391:GLY:HA3	2.20	0.41
1:p:296:PRO:HG2	1:p:715:PHE:HB3	2.02	0.41
1:g:700:GLU:HG3	1:W:297:ARG:NE	2.36	0.41
1:l:700:GLU:HG3	1:v:297:ARG:NE	2.36	0.41
1:q:426:SER:OG	1:q:426:SER:O	2.31	0.41
1:v:555:ALA:N	1:0:465:PHE:O	2.49	0.41
1:h:617:GLN:HE22	1:h:728:PRO:HA	1.84	0.41
1:m:545:PHE:O	1:m:561:MET:N	2.42	0.41
1:m:700:GLU:HG3	1:w:297:ARG:NE	2.36	0.41
1:r:485:CYS:HB3	1:r:579:TYR:HB2	2.03	0.41
1:r:706:ASN:O	1:Y:391:GLY:HA3	2.21	0.41
1:2:669:LEU:HD12	1:H:372:VAL:HG12	2.03	0.41
1:2:709:LYS:HA	1:K:390:VAL:HA	2.02	0.41
1:7:485:CYS:HB3	1:7:579:TYR:HB2	2.03	0.41
1:F:247:THR:HB	1:F:372:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:421:VAL:HG21	1:J:640:PHE:HB3	2.03	0.41
1:N:399:GLU:OE1	1:N:399:GLU:N	2.54	0.41
1:V:391:GLY:HA3	1:G:706:ASN:O	2.21	0.41
1:V:571:THR:HG23	1:V:608:VAL:HG23	2.02	0.41
1:G:437:MET:HE3	1:G:437:MET:HB3	1.93	0.41
1:G:603:ALA:HA	1:G:607:MET:HE1	2.01	0.41
1:K:485:CYS:HB3	1:K:579:TYR:HB2	2.03	0.41
1:W:391:GLY:HA3	1:X:706:ASN:O	2.21	0.41
1:a:335:ILE:HG21	1:T:673:ILE:HD11	2.02	0.41
1:H:250:LEU:HD22	1:H:651:ILE:HG12	2.02	0.41
1:H:513:LEU:HD13	1:L:482:PRO:HB3	2.02	0.41
1:P:485:CYS:HB3	1:P:579:TYR:HB2	2.03	0.41
1:T:247:THR:HB	1:T:372:VAL:HG22	2.02	0.41
1:X:399:GLU:OE1	1:X:399:GLU:N	2.54	0.41
1:M:399:GLU:OE1	1:M:399:GLU:N	2.54	0.41
1:U:291:HIS:CG	1:U:367:PRO:HB3	2.56	0.41
1:Y:421:VAL:HG21	1:Y:640:PHE:HB3	2.03	0.41
1:Y:625:PRO:HB3	1:c:738:LEU:HD22	2.02	0.41
1:c:247:THR:HB	1:c:372:VAL:HG22	2.02	0.41
1:c:275:TYR:HB2	1:c:381:LEU:HD22	2.02	0.41
1:l:291:HIS:CG	1:l:367:PRO:HB3	2.56	0.41
1:l:706:ASN:O	1:i:391:GLY:HA3	2.21	0.41
1:A:513:LEU:HD13	1:B:482:PRO:HB3	2.03	0.41
1:C:318:LEU:HD23	1:C:318:LEU:HA	1.90	0.41
1:C:421:VAL:HG21	1:C:640:PHE:HB3	2.03	0.41
1:D:569:LYS:HB2	1:D:569:LYS:HE2	1.84	0.41
1:E:421:VAL:HG21	1:E:640:PHE:HB3	2.03	0.41
1:E:485:CYS:HB3	1:E:579:TYR:HB2	2.03	0.41
1:d:291:HIS:CG	1:d:367:PRO:HB3	2.56	0.41
1:d:513:LEU:HD13	1:i:482:PRO:HB3	2.02	0.41
1:i:250:LEU:HD22	1:i:651:ILE:HG12	2.02	0.41
1:i:296:PRO:HG2	1:i:715:PHE:HB3	2.02	0.41
1:i:485:CYS:HB3	1:i:579:TYR:HB2	2.03	0.41
1:n:485:CYS:HB3	1:n:579:TYR:HB2	2.03	0.41
1:s:250:LEU:HD22	1:s:651:ILE:HG12	2.02	0.41
1:s:399:GLU:OE1	1:s:399:GLU:N	2.54	0.41
1:s:421:VAL:HG21	1:s:640:PHE:HB3	2.03	0.41
1:s:482:PRO:HB3	1:3:513:LEU:HD13	2.02	0.41
1:s:513:LEU:HD13	1:x:482:PRO:HB3	2.02	0.41
1:x:275:TYR:HB2	1:x:381:LEU:HD22	2.02	0.41
1:j:250:LEU:HD22	1:j:651:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:247:THR:HB	1:o:372:VAL:HG22	2.02	0.41
1:o:421:VAL:HG21	1:o:640:PHE:HB3	2.03	0.41
1:t:521:ASN:HA	1:t:522:PRO:HA	1.90	0.41
1:y:275:TYR:HB2	1:y:381:LEU:HD22	2.02	0.41
1:y:372:VAL:HG12	1:Q:669:LEU:HD12	2.03	0.41
1:y:432:SER:OG	1:y:434:ASP:OD1	2.24	0.41
1:f:291:HIS:CG	1:f:367:PRO:HB3	2.56	0.41
1:k:275:TYR:HB2	1:k:381:LEU:HD22	2.02	0.41
1:z:247:THR:HB	1:z:372:VAL:HG22	2.02	0.41
1:g:399:GLU:OE1	1:g:399:GLU:N	2.54	0.41
1:g:485:CYS:HB3	1:g:579:TYR:HB2	2.03	0.41
1:g:513:LEU:HD13	1:l:482:PRO:HB3	2.02	0.41
1:v:485:CYS:HB3	1:v:579:TYR:HB2	2.03	0.41
1:v:513:LEU:HD13	1:O:482:PRO:HB3	2.02	0.41
1:h:275:TYR:HB2	1:h:381:LEU:HD22	2.02	0.41
1:h:421:VAL:HG21	1:h:640:PHE:HB3	2.03	0.41
1:h:432:SER:OG	1:h:434:ASP:OD1	2.24	0.41
1:h:555:ALA:N	1:m:465:PHE:O	2.49	0.41
1:m:250:LEU:HD22	1:m:651:ILE:HG12	2.02	0.41
1:m:495:THR:HG22	1:r:463:LEU:HG	2.03	0.41
1:w:296:PRO:HG2	1:w:715:PHE:HB3	2.01	0.41
1:w:578:GLU:H	1:w:578:GLU:HG3	1.60	0.41
1:2:291:HIS:CG	1:2:367:PRO:HB3	2.56	0.41
1:7:250:LEU:HD22	1:7:651:ILE:HG12	2.02	0.41
1:7:399:GLU:OE1	1:7:399:GLU:N	2.54	0.41
1:J:250:LEU:HD22	1:J:651:ILE:HG12	2.02	0.41
1:J:296:PRO:HG2	1:J:715:PHE:HB3	2.02	0.41
1:N:286:ASP:HB3	1:N:364:CYS:HA	2.03	0.41
1:R:421:VAL:HG21	1:R:640:PHE:HB3	2.03	0.41
1:R:482:PRO:HB3	1:Z:513:LEU:HD13	2.02	0.41
1:R:636:LEU:HD23	1:R:636:LEU:HA	1.89	0.41
1:V:275:TYR:HB2	1:V:381:LEU:HD22	2.02	0.41
1:V:485:CYS:HB3	1:V:579:TYR:HB2	2.03	0.41
1:V:669:LEU:HD12	1:G:372:VAL:HG12	2.02	0.41
1:G:250:LEU:HD22	1:G:651:ILE:HG12	2.02	0.41
1:G:296:PRO:HG2	1:G:715:PHE:HB3	2.01	0.41
1:G:485:CYS:HB3	1:G:579:TYR:HB2	2.03	0.41
1:G:571:THR:HG23	1:G:608:VAL:HG23	2.01	0.41
1:S:485:CYS:HB3	1:S:579:TYR:HB2	2.03	0.41
1:W:405:MET:HE2	1:W:405:MET:HB3	1.97	0.41
1:W:513:LEU:HD13	1:a:482:PRO:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:286:ASP:HB3	1:a:364:CYS:HA	2.03	0.41
1:a:372:VAL:HG12	1:T:669:LEU:HD12	2.01	0.41
1:L:421:VAL:HG21	1:L:640:PHE:HB3	2.03	0.41
1:P:421:VAL:HG21	1:P:640:PHE:HB3	2.03	0.41
1:P:521:ASN:HA	1:P:522:PRO:HA	1.90	0.41
1:X:275:TYR:HB2	1:X:381:LEU:HD22	2.02	0.41
1:X:578:GLU:H	1:X:578:GLU:HG3	1.60	0.41
1:X:636:LEU:HD23	1:X:636:LEU:HA	1.89	0.41
1:I:571:THR:HG23	1:I:608:VAL:HG23	2.01	0.41
1:M:291:HIS:CG	1:M:367:PRO:HB3	2.56	0.41
1:M:421:VAL:HG21	1:M:640:PHE:HB3	2.03	0.41
1:M:555:ALA:N	1:Q:465:PHE:O	2.49	0.41
1:Y:485:CYS:HB3	1:Y:579:TYR:HB2	2.03	0.41
1:c:421:VAL:HG21	1:c:640:PHE:HB3	2.03	0.41
1:l:381:LEU:HD21	1:A:439:PRO:HB3	2.03	0.41
1:l:463:LEU:HG	1:B:495:THR:HG22	2.03	0.41
1:B:421:VAL:HG21	1:B:640:PHE:HB3	2.03	0.41
1:D:513:LEU:HD13	1:E:482:PRO:HB3	2.03	0.41
1:D:625:PRO:HD3	1:E:480:TRP:CE2	2.55	0.41
1:i:700:GLU:HG3	1:s:297:ARG:NE	2.36	0.41
1:n:291:HIS:CG	1:n:367:PRO:HB3	2.56	0.41
1:n:426:SER:OG	1:n:426:SER:O	2.31	0.41
1:x:291:HIS:CG	1:x:367:PRO:HB3	2.56	0.41
1:3:421:VAL:HG21	1:3:640:PHE:HB3	2.03	0.41
1:e:291:HIS:CG	1:e:367:PRO:HB3	2.56	0.41
1:o:578:GLU:H	1:o:578:GLU:HG3	1.60	0.41
1:4:291:HIS:CG	1:4:367:PRO:HB3	2.56	0.41
1:f:513:LEU:HD13	1:k:482:PRO:HB3	2.02	0.41
1:k:276:PHE:CZ	1:k:389:ALA:HB2	2.57	0.41
1:k:421:VAL:HG21	1:k:640:PHE:HB3	2.03	0.41
1:u:291:HIS:CG	1:u:367:PRO:HB3	2.56	0.41
1:z:513:LEU:HD13	1:5:482:PRO:HB3	2.03	0.41
1:g:314:LEU:HD21	1:g:646:PRO:HB3	2.03	0.41
1:v:275:TYR:HB2	1:v:381:LEU:HD22	2.02	0.41
1:v:314:LEU:HD21	1:v:646:PRO:HB3	2.03	0.41
1:v:421:VAL:HG21	1:v:640:PHE:HB3	2.03	0.41
1:6:291:HIS:CG	1:6:367:PRO:HB3	2.56	0.41
1:h:276:PHE:CZ	1:h:389:ALA:HB2	2.56	0.41
1:h:391:GLY:HA3	1:w:706:ASN:O	2.21	0.41
1:w:275:TYR:HB2	1:w:381:LEU:HD22	2.02	0.41
1:w:291:HIS:CG	1:w:367:PRO:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:286:ASP:HB3	1:2:364:CYS:HA	2.04	0.41
1:F:291:HIS:CG	1:F:367:PRO:HB3	2.56	0.41
1:F:381:LEU:HD21	1:J:439:PRO:HB3	2.03	0.41
1:J:335:ILE:HG21	1:Z:673:ILE:HD11	2.03	0.41
1:N:291:HIS:CG	1:N:367:PRO:HB3	2.56	0.41
1:Z:421:VAL:HG21	1:Z:640:PHE:HB3	2.03	0.41
1:G:513:LEU:HD13	1:K:482:PRO:HB3	2.02	0.41
1:H:286:ASP:HB3	1:H:364:CYS:HA	2.03	0.41
1:P:286:ASP:HB3	1:P:364:CYS:HA	2.03	0.41
1:T:250:LEU:HD22	1:T:651:ILE:HG12	2.02	0.41
1:b:296:PRO:HG2	1:b:715:PHE:HB3	2.02	0.41
1:I:421:VAL:HG21	1:I:640:PHE:HB3	2.03	0.41
1:M:513:LEU:HD13	1:Q:482:PRO:HB3	2.03	0.41
1:Y:399:GLU:OE1	1:Y:399:GLU:N	2.54	0.41
1:l:247:THR:HB	1:l:372:VAL:HG22	2.02	0.40
1:l:485:CYS:HB3	1:l:579:TYR:HB2	2.03	0.40
1:A:276:PHE:CZ	1:A:389:ALA:HB2	2.57	0.40
1:A:314:LEU:HD21	1:A:646:PRO:HB3	2.04	0.40
1:A:669:LEU:HD12	1:6:372:VAL:HG12	2.02	0.40
1:A:700:GLU:HG3	1:C:297:ARG:NE	2.36	0.40
1:A:706:ASN:O	1:E:391:GLY:HA3	2.20	0.40
1:B:276:PHE:CZ	1:B:389:ALA:HB2	2.57	0.40
1:D:276:PHE:CZ	1:D:389:ALA:HB2	2.56	0.40
1:d:578:GLU:H	1:d:578:GLU:HG3	1.60	0.40
1:i:276:PHE:CZ	1:i:389:ALA:HB2	2.57	0.40
1:i:335:ILE:HG21	1:3:673:ILE:HD11	2.03	0.40
1:s:286:ASP:HB3	1:s:364:CYS:HA	2.04	0.40
1:3:286:ASP:HB3	1:3:364:CYS:HA	2.03	0.40
1:e:521:ASN:HA	1:e:522:PRO:HA	1.90	0.40
1:j:286:ASP:HB3	1:j:364:CYS:HA	2.03	0.40
1:t:247:THR:HB	1:t:372:VAL:HG22	2.02	0.40
1:y:495:THR:HG22	1:4:463:LEU:HG	2.02	0.40
1:k:314:LEU:HD21	1:k:646:PRO:HB3	2.04	0.40
1:k:399:GLU:OE1	1:k:399:GLU:N	2.54	0.40
1:p:276:PHE:CZ	1:p:389:ALA:HB2	2.56	0.40
1:u:314:LEU:HD21	1:u:646:PRO:HB3	2.03	0.40
1:z:276:PHE:CZ	1:z:389:ALA:HB2	2.57	0.40
1:5:485:CYS:HB3	1:5:579:TYR:HB2	2.03	0.40
1:5:578:GLU:H	1:5:578:GLU:HG3	1.60	0.40
1:g:286:ASP:HB3	1:g:364:CYS:HA	2.03	0.40
1:g:421:VAL:HG21	1:g:640:PHE:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:571:THR:HG23	1:g:608:VAL:HG23	2.01	0.40
1:l:291:HIS:CG	1:l:367:PRO:HB3	2.56	0.40
1:0:335:ILE:HG21	1:R:673:ILE:HD11	2.02	0.40
1:6:421:VAL:HG21	1:6:640:PHE:HB3	2.03	0.40
1:m:291:HIS:CG	1:m:367:PRO:HB3	2.56	0.40
1:r:276:PHE:CZ	1:r:389:ALA:HB2	2.57	0.40
1:r:286:ASP:HB3	1:r:364:CYS:HA	2.03	0.40
1:7:291:HIS:CG	1:7:367:PRO:HB3	2.56	0.40
1:F:286:ASP:HB3	1:F:364:CYS:HA	2.03	0.40
1:F:555:ALA:N	1:J:465:PHE:O	2.49	0.40
1:J:276:PHE:CZ	1:J:389:ALA:HB2	2.57	0.40
1:V:625:PRO:HB3	1:Z:738:LEU:HD22	2.02	0.40
1:Z:372:VAL:HG12	1:O:669:LEU:HD12	2.03	0.40
1:G:421:VAL:HG21	1:G:640:PHE:HB3	2.03	0.40
1:G:463:LEU:HG	1:O:495:THR:HG22	2.03	0.40
1:K:700:GLU:HG3	1:S:297:ARG:NE	2.36	0.40
1:O:421:VAL:HG21	1:O:640:PHE:HB3	2.03	0.40
1:S:314:LEU:HD21	1:S:646:PRO:HB3	2.03	0.40
1:S:571:THR:HG23	1:S:608:VAL:HG23	2.01	0.40
1:H:463:LEU:HG	1:P:495:THR:HG22	2.03	0.40
1:L:276:PHE:CZ	1:L:389:ALA:HB2	2.57	0.40
1:L:437:MET:HE3	1:L:437:MET:HB3	1.93	0.40
1:L:700:GLU:HG3	1:T:297:ARG:NE	2.36	0.40
1:P:275:TYR:HB2	1:P:381:LEU:HD22	2.02	0.40
1:T:275:TYR:HB2	1:T:381:LEU:HD22	2.02	0.40
1:X:421:VAL:HG21	1:X:640:PHE:HB3	2.03	0.40
1:b:636:LEU:HD23	1:b:636:LEU:HA	1.89	0.40
1:I:286:ASP:HB3	1:I:364:CYS:HA	2.03	0.40
1:Q:485:CYS:HB3	1:Q:579:TYR:HB2	2.03	0.40
1:U:405:MET:HE2	1:U:405:MET:HB3	1.97	0.40
1:U:545:PHE:O	1:U:561:MET:N	2.42	0.40
1:c:276:PHE:CZ	1:c:389:ALA:HB2	2.57	0.40
1:c:291:HIS:CG	1:c:367:PRO:HB3	2.56	0.40
1:c:314:LEU:HA	1:c:684:GLU:O	2.19	0.40
1:A:291:HIS:CG	1:A:367:PRO:HB3	2.56	0.40
1:B:250:LEU:HD22	1:B:651:ILE:HG12	2.02	0.40
1:C:314:LEU:HD21	1:C:646:PRO:HB3	2.03	0.40
1:C:485:CYS:HB3	1:C:579:TYR:HB2	2.03	0.40
1:D:291:HIS:CG	1:D:367:PRO:HB3	2.56	0.40
1:D:495:THR:HG22	1:E:463:LEU:HG	2.02	0.40
1:n:296:PRO:HG2	1:n:715:PHE:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:291:HIS:CG	1:3:367:PRO:HB3	2.56	0.40
1:3:700:GLU:HG3	1:e:297:ARG:NE	2.36	0.40
1:e:275:TYR:HB2	1:e:381:LEU:HD22	2.02	0.40
1:j:399:GLU:OE1	1:j:399:GLU:N	2.54	0.40
1:y:291:HIS:CG	1:y:367:PRO:HB3	2.56	0.40
1:4:335:ILE:HG21	1:u:673:ILE:HD11	2.02	0.40
1:k:291:HIS:CG	1:k:367:PRO:HB3	2.56	0.40
1:p:275:TYR:HB2	1:p:381:LEU:HD22	2.02	0.40
1:p:291:HIS:CG	1:p:367:PRO:HB3	2.56	0.40
1:z:569:LYS:HB2	1:z:569:LYS:HE2	1.84	0.40
1:z:625:PRO:HB3	1:5:738:LEU:HD22	2.02	0.40
1:5:250:LEU:HD22	1:5:651:ILE:HG12	2.02	0.40
1:5:314:LEU:HD21	1:5:646:PRO:HB3	2.03	0.40
1:g:291:HIS:CG	1:g:367:PRO:HB3	2.56	0.40
1:g:463:LEU:HG	1:q:495:THR:HG22	2.03	0.40
1:q:286:ASP:HB3	1:q:364:CYS:HA	2.03	0.40
1:q:421:VAL:HG21	1:q:640:PHE:HB3	2.03	0.40
1:v:291:HIS:CG	1:v:367:PRO:HB3	2.56	0.40
1:0:372:VAL:HG12	1:R:669:LEU:HD12	2.03	0.40
1:6:247:THR:HB	1:6:372:VAL:HG22	2.02	0.40
1:h:286:ASP:HB3	1:h:364:CYS:HA	2.03	0.40
1:h:291:HIS:CG	1:h:367:PRO:HB3	2.56	0.40
1:m:286:ASP:HB3	1:m:364:CYS:HA	2.03	0.40
1:w:521:ASN:HA	1:w:522:PRO:HA	1.90	0.40
1:w:673:ILE:HD11	1:O:335:ILE:HG21	2.03	0.40
1:2:276:PHE:CZ	1:2:389:ALA:HB2	2.56	0.40
1:2:296:PRO:HG2	1:2:715:PHE:HB3	2.02	0.40
1:2:335:ILE:HG21	1:K:673:ILE:HD11	2.02	0.40
1:7:247:THR:HB	1:7:372:VAL:HG22	2.02	0.40
1:7:276:PHE:CZ	1:7:389:ALA:HB2	2.57	0.40
1:R:437:MET:HE3	1:R:437:MET:HB3	1.93	0.40
1:R:513:LEU:HD13	1:V:482:PRO:HB3	2.02	0.40
1:K:250:LEU:HD22	1:K:651:ILE:HG12	2.02	0.40
1:K:335:ILE:HG21	1:a:673:ILE:HD11	2.03	0.40
1:K:421:VAL:HG21	1:K:640:PHE:HB3	2.03	0.40
1:O:314:LEU:HD21	1:O:646:PRO:HB3	2.04	0.40
1:W:485:CYS:HB3	1:W:579:TYR:HB2	2.03	0.40
1:a:297:ARG:NE	1:X:700:GLU:HG3	2.37	0.40
1:H:291:HIS:CG	1:H:367:PRO:HB3	2.56	0.40
1:H:391:GLY:HA3	1:T:706:ASN:O	2.21	0.40
1:L:286:ASP:HB3	1:L:364:CYS:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:706:ASN:O	1:M:391:GLY:HA3	2.21	0.40
1:T:276:PHE:CZ	1:T:389:ALA:HB2	2.57	0.40
1:T:291:HIS:CG	1:T:367:PRO:HB3	2.56	0.40
1:X:291:HIS:CG	1:X:367:PRO:HB3	2.56	0.40
1:b:314:LEU:HD21	1:b:646:PRO:HB3	2.04	0.40
1:M:485:CYS:HB3	1:M:579:TYR:HB2	2.03	0.40
1:M:700:GLU:HG3	1:U:297:ARG:NE	2.36	0.40
1:Q:276:PHE:CZ	1:Q:389:ALA:HB2	2.57	0.40
1:U:499:ASN:HA	1:Y:589:GLN:HA	2.03	0.40
1:c:405:MET:HE2	1:c:405:MET:HB3	1.97	0.40
1:A:296:PRO:HG2	1:A:715:PHE:HB3	2.02	0.40
1:B:545:PHE:O	1:B:561:MET:N	2.42	0.40
1:C:250:LEU:HD22	1:C:651:ILE:HG12	2.02	0.40
1:C:286:ASP:HB3	1:C:364:CYS:HA	2.04	0.40
1:i:565:GLU:OE2	1:i:615:TYR:OH	2.35	0.40
1:x:485:CYS:HB3	1:x:579:TYR:HB2	2.03	0.40
1:e:463:LEU:HG	1:o:495:THR:HG22	2.04	0.40
1:j:276:PHE:CZ	1:j:389:ALA:HB2	2.57	0.40
1:j:291:HIS:CG	1:j:367:PRO:HB3	2.56	0.40
1:j:700:GLU:HG3	1:t:297:ARG:NE	2.36	0.40
1:o:286:ASP:HB3	1:o:364:CYS:HA	2.03	0.40
1:o:314:LEU:HD21	1:o:646:PRO:HB3	2.04	0.40
1:k:250:LEU:HD22	1:k:651:ILE:HG12	2.02	0.40
1:k:625:PRO:HB3	1:p:738:LEU:HD22	2.02	0.40
1:p:485:CYS:HB3	1:p:579:TYR:HB2	2.03	0.40
1:5:276:PHE:CZ	1:5:389:ALA:HB2	2.57	0.40
1:l:276:PHE:CZ	1:l:389:ALA:HB2	2.57	0.40
1:l:421:VAL:HG21	1:l:640:PHE:HB3	2.03	0.40
1:l:625:PRO:HB3	1:q:738:LEU:HD22	2.02	0.40
1:q:291:HIS:CG	1:q:367:PRO:HB3	2.56	0.40
1:q:669:LEU:HD12	1:W:372:VAL:HG12	2.04	0.40
1:v:738:LEU:HD22	1:6:625:PRO:HB3	2.04	0.40
1:0:314:LEU:HD21	1:0:646:PRO:HB3	2.04	0.40
1:6:485:CYS:HB3	1:6:579:TYR:HB2	2.03	0.40
1:h:314:LEU:HD21	1:h:646:PRO:HB3	2.03	0.40
1:r:578:GLU:H	1:r:578:GLU:HG3	1.60	0.40
1:w:276:PHE:CZ	1:w:389:ALA:HB2	2.57	0.40
1:2:314:LEU:HD21	1:2:646:PRO:HB3	2.04	0.40
1:2:318:LEU:HD23	1:2:318:LEU:HA	1.91	0.40
1:F:276:PHE:CZ	1:F:389:ALA:HB2	2.57	0.40
1:J:314:LEU:HD21	1:J:646:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:700:GLU:HG3	1:R:297:ARG:NE	2.36	0.40
1:R:314:LEU:HD21	1:R:646:PRO:HB3	2.04	0.40
1:R:399:GLU:OE1	1:R:399:GLU:N	2.54	0.40
1:R:545:PHE:O	1:R:561:MET:N	2.42	0.40
1:V:291:HIS:CG	1:V:367:PRO:HB3	2.56	0.40
1:Z:399:GLU:OE1	1:Z:399:GLU:N	2.54	0.40
1:G:314:LEU:HD21	1:G:646:PRO:HB3	2.04	0.40
1:S:421:VAL:HG21	1:S:640:PHE:HB3	2.03	0.40
1:S:738:LEU:HD22	1:a:625:PRO:HB3	2.04	0.40
1:W:625:PRO:HB3	1:a:738:LEU:HD22	2.02	0.40
1:a:421:VAL:HG21	1:a:640:PHE:HB3	2.03	0.40
1:H:314:LEU:HD21	1:H:646:PRO:HB3	2.04	0.40
1:H:381:LEU:HD21	1:L:439:PRO:HB3	2.03	0.40
1:P:545:PHE:O	1:P:561:MET:N	2.42	0.40
1:T:521:ASN:HA	1:T:522:PRO:HA	1.90	0.40
1:X:286:ASP:HB3	1:X:364:CYS:HA	2.03	0.40
1:U:482:PRO:HB3	1:c:513:LEU:HD13	2.02	0.40
1:U:636:LEU:HD23	1:U:636:LEU:HA	1.89	0.40
1:c:485:CYS:HB3	1:c:579:TYR:HB2	2.03	0.40
1:1:286:ASP:HB3	1:1:364:CYS:HA	2.03	0.40
1:1:297:ARG:NE	1:n:700:GLU:HG3	2.37	0.40
1:1:391:GLY:HA3	1:C:706:ASN:O	2.21	0.40
1:1:555:ALA:N	1:A:465:PHE:O	2.49	0.40
1:B:286:ASP:HB3	1:B:364:CYS:HA	2.03	0.40
1:B:706:ASN:O	1:O:391:GLY:HA3	2.21	0.40
1:D:335:ILE:HG21	1:j:673:ILE:HD11	2.02	0.40
1:D:399:GLU:OE1	1:D:399:GLU:N	2.54	0.40
1:i:286:ASP:HB3	1:i:364:CYS:HA	2.03	0.40
1:i:513:LEU:HD13	1:n:482:PRO:HB3	2.03	0.40
1:s:296:PRO:HG2	1:s:715:PHE:HB3	2.01	0.40
1:s:465:PHE:O	1:3:555:ALA:N	2.48	0.40
1:s:499:ASN:HA	1:x:589:GLN:HA	2.04	0.40
1:s:673:ILE:HD11	1:Y:335:ILE:HG21	2.03	0.40
1:x:314:LEU:HD21	1:x:646:PRO:HB3	2.04	0.40
1:3:276:PHE:CZ	1:3:389:ALA:HB2	2.57	0.40
1:e:485:CYS:HB3	1:e:579:TYR:HB2	2.03	0.40
1:t:513:LEU:HD13	1:y:482:PRO:HB3	2.02	0.40
1:y:286:ASP:HB3	1:y:364:CYS:HA	2.03	0.40
1:4:314:LEU:HD21	1:4:646:PRO:HB3	2.04	0.40
1:f:381:LEU:HD21	1:k:439:PRO:HB3	2.03	0.40
1:k:335:ILE:HG21	1:5:673:ILE:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:513:LEU:HD13	1:p:482:PRO:HB3	2.03	0.40
1:u:485:CYS:HB3	1:u:579:TYR:HB2	2.03	0.40
1:g:381:LEU:HD21	1:l:439:PRO:HB3	2.03	0.40
1:l:335:ILE:HG21	1:6:673:ILE:HD11	2.03	0.40
1:q:276:PHE:CZ	1:q:389:ALA:HB2	2.57	0.40
1:0:421:VAL:HG21	1:0:640:PHE:HB3	2.03	0.40
1:6:314:LEU:HD21	1:6:646:PRO:HB3	2.03	0.40
1:h:463:LEU:HG	1:r:495:THR:HG22	2.04	0.40
1:h:706:ASN:O	1:J:391:GLY:HA3	2.21	0.40
1:r:421:VAL:HG21	1:r:640:PHE:HB3	2.03	0.40
1:r:569:LYS:HB2	1:r:569:LYS:HE2	1.84	0.40
1:2:421:VAL:HG21	1:2:640:PHE:HB3	2.03	0.40
1:7:700:GLU:HG3	1:H:297:ARG:NE	2.36	0.40
1:N:276:PHE:CZ	1:N:389:ALA:HB2	2.57	0.40
1:R:291:HIS:CG	1:R:367:PRO:HB3	2.56	0.40
1:G:738:LEU:HD22	1:O:625:PRO:HB3	2.04	0.40
1:W:250:LEU:HD22	1:W:651:ILE:HG12	2.02	0.40
1:W:286:ASP:HB3	1:W:364:CYS:HA	2.03	0.40
1:W:291:HIS:CG	1:W:367:PRO:HB3	2.56	0.40
1:W:569:LYS:HB2	1:W:569:LYS:HE2	1.84	0.40
1:L:335:ILE:HG21	1:b:673:ILE:HD11	2.03	0.40
1:T:499:ASN:HA	1:X:589:GLN:HA	2.04	0.40
1:X:296:PRO:HG2	1:X:715:PHE:HB3	2.02	0.40
1:I:391:GLY:HA3	1:U:706:ASN:O	2.21	0.40
1:M:276:PHE:CZ	1:M:389:ALA:HB2	2.57	0.40
1:M:335:ILE:HG21	1:c:673:ILE:HD11	2.03	0.40
1:Q:291:HIS:CG	1:Q:367:PRO:HB3	2.56	0.40
1:Q:314:LEU:HD21	1:Q:646:PRO:HB3	2.03	0.40
1:U:286:ASP:HB3	1:U:364:CYS:HA	2.04	0.40
1:c:399:GLU:OE1	1:c:399:GLU:N	2.54	0.40
1:1:495:THR:HG22	1:A:463:LEU:HG	2.04	0.40
1:B:485:CYS:HB3	1:B:579:TYR:HB2	2.03	0.40
1:D:578:GLU:H	1:D:578:GLU:HG3	1.60	0.40
1:d:697:TRP:CH2	1:F:369:PRO:HD3	2.57	0.40
1:3:372:VAL:HG12	1:o:669:LEU:HD12	2.03	0.40
1:o:291:HIS:CG	1:o:367:PRO:HB3	2.56	0.40
1:t:291:HIS:CG	1:t:367:PRO:HB3	2.56	0.40
1:t:738:LEU:HD22	1:4:625:PRO:HB3	2.04	0.40
1:y:421:VAL:HG21	1:y:640:PHE:HB3	2.03	0.40
1:4:286:ASP:HB3	1:4:364:CYS:HA	2.03	0.40
1:p:286:ASP:HB3	1:p:364:CYS:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:421:VAL:HG21	1:u:640:PHE:HB3	2.03	0.40
1:u:465:PHE:O	1:5:555:ALA:N	2.49	0.40
1:z:286:ASP:HB3	1:z:364:CYS:HA	2.04	0.40
1:5:291:HIS:CG	1:5:367:PRO:HB3	2.56	0.40
1:5:372:VAL:HG12	1:X:669:LEU:HD12	2.03	0.40
1:g:738:LEU:HD22	1:q:625:PRO:HB3	2.04	0.40
1:q:485:CYS:HB3	1:q:579:TYR:HB2	2.03	0.40
1:0:276:PHE:CZ	1:0:389:ALA:HB2	2.56	0.40
1:0:291:HIS:CG	1:0:367:PRO:HB3	2.56	0.40
1:h:381:LEU:HD21	1:m:439:PRO:HB3	2.03	0.40
1:r:314:LEU:HD21	1:r:646:PRO:HB3	2.04	0.40
1:r:700:GLU:HG3	1:c:297:ARG:NE	2.37	0.40
1:w:421:VAL:HG21	1:w:640:PHE:HB3	2.03	0.40
1:2:485:CYS:HB3	1:2:579:TYR:HB2	2.03	0.40
1:F:275:TYR:HB2	1:F:381:LEU:HD22	2.02	0.40
1:J:291:HIS:CG	1:J:367:PRO:HB3	2.56	0.40
1:J:485:CYS:HB3	1:J:579:TYR:HB2	2.03	0.40
1:J:625:PRO:HB3	1:N:738:LEU:HD22	2.02	0.40
1:G:465:PHE:O	1:O:555:ALA:N	2.48	0.40
1:K:276:PHE:CZ	1:K:389:ALA:HB2	2.57	0.40
1:K:314:LEU:HD21	1:K:646:PRO:HB3	2.03	0.40
1:S:463:LEU:HG	1:a:495:THR:HG22	2.04	0.40
1:a:291:HIS:CG	1:a:367:PRO:HB3	2.56	0.40
1:L:495:THR:HG22	1:P:463:LEU:HG	2.03	0.40
1:X:485:CYS:HB3	1:X:579:TYR:HB2	2.03	0.40
1:X:545:PHE:O	1:X:561:MET:N	2.42	0.40
1:U:437:MET:HE3	1:U:437:MET:HB3	1.93	0.40
1:U:485:CYS:HB3	1:U:579:TYR:HB2	2.03	0.40
1:Y:495:THR:HG22	1:c:463:LEU:HG	2.02	0.40
1:Y:513:LEU:HD13	1:c:482:PRO:HB3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	1	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	2	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	3	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	4	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	5	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	6	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	7	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	A	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	B	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	C	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	D	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	E	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	F	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	G	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	H	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	I	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	J	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	K	497/738 (67%)	489 (98%)	8 (2%)	0	100	100
1	L	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	M	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	N	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	O	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	P	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	Q	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	R	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	S	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	T	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	U	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	V	497/738 (67%)	489 (98%)	8 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	W	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	X	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	Y	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	Z	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	a	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	b	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	c	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	d	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	e	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	f	497/738 (67%)	489 (98%)	8 (2%)	0	100	100
1	g	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	h	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	i	497/738 (67%)	489 (98%)	8 (2%)	0	100	100
1	j	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	k	497/738 (67%)	489 (98%)	8 (2%)	0	100	100
1	l	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	m	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	n	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	o	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	p	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	q	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	r	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	s	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	t	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	u	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	v	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	w	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	x	497/738 (67%)	488 (98%)	9 (2%)	0	100	100
1	y	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
1	z	497/738 (67%)	487 (98%)	10 (2%)	0	100	100
All	All	29820/44280 (67%)	29255 (98%)	565 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	1	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	2	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	3	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	4	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	5	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	6	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	7	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	A	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	B	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	C	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	D	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	E	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	F	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	G	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	H	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	I	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	J	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	K	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	L	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	M	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	N	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	O	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	P	445/618 (72%)	440 (99%)	5 (1%)	65	80

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Q	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	R	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	S	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	T	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	U	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	V	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	W	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	X	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	Y	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	Z	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	a	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	b	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	c	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	d	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	e	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	f	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	g	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	h	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	i	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	j	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	k	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	l	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	m	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	n	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	o	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	p	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	q	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	r	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	s	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	t	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	u	445/618 (72%)	441 (99%)	4 (1%)	70	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	v	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	w	445/618 (72%)	441 (99%)	4 (1%)	70	83
1	x	445/618 (72%)	442 (99%)	3 (1%)	76	86
1	y	445/618 (72%)	440 (99%)	5 (1%)	65	80
1	z	445/618 (72%)	441 (99%)	4 (1%)	70	83
All	All	26700/37080 (72%)	26469 (99%)	231 (1%)	68	83

All (231) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1	426	SER
1	1	485	CYS
1	1	588	GLN
1	A	426	SER
1	A	485	CYS
1	A	588	GLN
1	B	426	SER
1	B	485	CYS
1	B	588	GLN
1	C	426	SER
1	C	485	CYS
1	C	588	GLN
1	C	591	THR
1	D	426	SER
1	D	485	CYS
1	D	588	GLN
1	E	426	SER
1	E	485	CYS
1	E	588	GLN
1	E	591	THR
1	d	426	SER
1	d	485	CYS
1	d	588	GLN
1	i	426	SER
1	i	485	CYS
1	i	588	GLN
1	i	591	THR
1	n	426	SER
1	n	485	CYS
1	n	588	GLN

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Mol	Chain	Res	Type
1	s	426	SER
1	s	485	CYS
1	s	588	GLN
1	s	591	THR
1	x	426	SER
1	x	485	CYS
1	x	588	GLN
1	3	426	SER
1	3	485	CYS
1	3	588	GLN
1	3	591	THR
1	e	426	SER
1	e	485	CYS
1	e	588	GLN
1	j	426	SER
1	j	485	CYS
1	j	584	ASP
1	j	588	GLN
1	j	591	THR
1	o	426	SER
1	o	485	CYS
1	o	588	GLN
1	o	591	THR
1	t	426	SER
1	t	485	CYS
1	t	588	GLN
1	y	350	GLU
1	y	426	SER
1	y	485	CYS
1	y	588	GLN
1	y	591	THR
1	4	426	SER
1	4	485	CYS
1	4	588	GLN
1	4	591	THR
1	f	426	SER
1	f	485	CYS
1	f	584	ASP
1	f	588	GLN
1	k	426	SER
1	k	485	CYS
1	k	588	GLN

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Mol	Chain	Res	Type
1	k	591	THR
1	p	426	SER
1	p	485	CYS
1	p	588	GLN
1	u	426	SER
1	u	485	CYS
1	u	588	GLN
1	u	591	THR
1	z	426	SER
1	z	485	CYS
1	z	588	GLN
1	z	591	THR
1	5	426	SER
1	5	485	CYS
1	5	584	ASP
1	5	588	GLN
1	5	591	THR
1	g	426	SER
1	g	485	CYS
1	g	588	GLN
1	l	426	SER
1	l	485	CYS
1	l	588	GLN
1	l	591	THR
1	q	426	SER
1	q	485	CYS
1	q	588	GLN
1	q	591	THR
1	q	663	THR
1	v	426	SER
1	v	485	CYS
1	v	588	GLN
1	0	426	SER
1	0	485	CYS
1	0	588	GLN
1	6	426	SER
1	6	485	CYS
1	6	588	GLN
1	6	591	THR
1	h	426	SER
1	h	485	CYS
1	h	588	GLN

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Mol	Chain	Res	Type
1	m	426	SER
1	m	485	CYS
1	m	584	ASP
1	m	588	GLN
1	m	591	THR
1	r	426	SER
1	r	485	CYS
1	r	588	GLN
1	r	591	THR
1	r	663	THR
1	w	426	SER
1	w	485	CYS
1	w	588	GLN
1	w	591	THR
1	2	426	SER
1	2	485	CYS
1	2	584	ASP
1	2	588	GLN
1	7	426	SER
1	7	485	CYS
1	7	588	GLN
1	7	591	THR
1	F	426	SER
1	F	485	CYS
1	F	588	GLN
1	F	591	THR
1	J	426	SER
1	J	485	CYS
1	J	588	GLN
1	N	426	SER
1	N	485	CYS
1	N	588	GLN
1	N	663	THR
1	R	426	SER
1	R	485	CYS
1	R	588	GLN
1	R	591	THR
1	V	426	SER
1	V	485	CYS
1	V	588	GLN
1	V	591	THR
1	Z	426	SER

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Mol	Chain	Res	Type
1	Z	485	CYS
1	Z	584	ASP
1	Z	588	GLN
1	Z	591	THR
1	G	426	SER
1	G	485	CYS
1	G	588	GLN
1	K	426	SER
1	K	485	CYS
1	K	588	GLN
1	O	426	SER
1	O	485	CYS
1	O	588	GLN
1	O	663	THR
1	S	426	SER
1	S	485	CYS
1	S	588	GLN
1	S	591	THR
1	W	426	SER
1	W	485	CYS
1	W	588	GLN
1	W	591	THR
1	a	426	SER
1	a	485	CYS
1	a	588	GLN
1	a	591	THR
1	H	426	SER
1	H	485	CYS
1	H	588	GLN
1	L	426	SER
1	L	485	CYS
1	L	588	GLN
1	L	591	THR
1	P	426	SER
1	P	485	CYS
1	P	588	GLN
1	P	591	THR
1	P	663	THR
1	T	426	SER
1	T	485	CYS
1	T	584	ASP
1	T	588	GLN

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Mol	Chain	Res	Type
1	T	591	THR
1	X	426	SER
1	X	485	CYS
1	X	588	GLN
1	b	426	SER
1	b	485	CYS
1	b	584	ASP
1	b	588	GLN
1	b	591	THR
1	I	426	SER
1	I	485	CYS
1	I	588	GLN
1	I	591	THR
1	M	426	SER
1	M	485	CYS
1	M	588	GLN
1	Q	426	SER
1	Q	485	CYS
1	Q	588	GLN
1	Q	591	THR
1	Q	663	THR
1	U	426	SER
1	U	485	CYS
1	U	588	GLN
1	U	591	THR
1	Y	426	SER
1	Y	485	CYS
1	Y	588	GLN
1	Y	591	THR
1	c	426	SER
1	c	485	CYS
1	c	588	GLN
1	c	591	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (341) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	322	GLN
1	1	377	GLN
1	1	554	ASN
1	1	702	GLN
1	1	706	ASN

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Mol	Chain	Res	Type
1	A	254	ASN
1	A	322	GLN
1	A	479	ASN
1	A	554	ASN
1	A	589	GLN
1	A	706	ASN
1	B	322	GLN
1	B	377	GLN
1	B	479	ASN
1	B	554	ASN
1	B	589	GLN
1	B	702	GLN
1	B	706	ASN
1	C	377	GLN
1	C	479	ASN
1	C	554	ASN
1	C	589	GLN
1	D	322	GLN
1	D	377	GLN
1	D	479	ASN
1	D	554	ASN
1	D	702	GLN
1	D	706	ASN
1	E	322	GLN
1	E	377	GLN
1	E	479	ASN
1	E	554	ASN
1	E	589	GLN
1	E	702	GLN
1	E	706	ASN
1	d	322	GLN
1	d	377	GLN
1	d	479	ASN
1	d	554	ASN
1	d	589	GLN
1	d	702	GLN
1	d	706	ASN
1	i	322	GLN
1	i	377	GLN
1	i	479	ASN
1	i	554	ASN
1	n	322	GLN

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Mol	Chain	Res	Type
1	n	377	GLN
1	n	479	ASN
1	n	554	ASN
1	n	589	GLN
1	n	702	GLN
1	n	706	ASN
1	s	377	GLN
1	s	479	ASN
1	s	554	ASN
1	s	589	GLN
1	s	706	ASN
1	x	322	GLN
1	x	377	GLN
1	x	554	ASN
1	x	702	GLN
1	x	706	ASN
1	3	322	GLN
1	3	377	GLN
1	3	479	ASN
1	3	554	ASN
1	3	589	GLN
1	3	702	GLN
1	3	706	ASN
1	e	322	GLN
1	e	377	GLN
1	e	554	ASN
1	e	589	GLN
1	e	702	GLN
1	e	706	ASN
1	j	322	GLN
1	j	377	GLN
1	j	479	ASN
1	j	554	ASN
1	j	589	GLN
1	j	706	ASN
1	o	322	GLN
1	o	377	GLN
1	o	554	ASN
1	o	589	GLN
1	o	702	GLN
1	o	706	ASN
1	t	377	GLN

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Mol	Chain	Res	Type
1	t	479	ASN
1	t	554	ASN
1	t	706	ASN
1	y	322	GLN
1	y	377	GLN
1	y	479	ASN
1	y	554	ASN
1	y	589	GLN
1	y	702	GLN
1	y	706	ASN
1	4	322	GLN
1	4	377	GLN
1	4	554	ASN
1	4	589	GLN
1	4	702	GLN
1	4	706	ASN
1	f	322	GLN
1	f	377	GLN
1	f	479	ASN
1	f	554	ASN
1	f	702	GLN
1	f	706	ASN
1	k	254	ASN
1	k	322	GLN
1	k	554	ASN
1	k	589	GLN
1	k	706	ASN
1	p	322	GLN
1	p	377	GLN
1	p	554	ASN
1	p	702	GLN
1	u	377	GLN
1	u	479	ASN
1	u	554	ASN
1	u	706	ASN
1	z	322	GLN
1	z	377	GLN
1	z	479	ASN
1	z	554	ASN
1	z	702	GLN
1	z	706	ASN
1	5	322	GLN

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Mol	Chain	Res	Type
1	5	377	GLN
1	5	479	ASN
1	5	554	ASN
1	5	589	GLN
1	5	702	GLN
1	5	706	ASN
1	g	254	ASN
1	g	322	GLN
1	g	554	ASN
1	g	702	GLN
1	g	706	ASN
1	l	322	GLN
1	l	377	GLN
1	l	479	ASN
1	l	554	ASN
1	l	589	GLN
1	l	706	ASN
1	q	322	GLN
1	q	377	GLN
1	q	479	ASN
1	q	554	ASN
1	q	589	GLN
1	q	702	GLN
1	q	706	ASN
1	v	254	ASN
1	v	554	ASN
1	v	706	ASN
1	0	322	GLN
1	0	377	GLN
1	0	554	ASN
1	0	589	GLN
1	0	702	GLN
1	0	706	ASN
1	6	322	GLN
1	6	377	GLN
1	6	479	ASN
1	6	554	ASN
1	6	589	GLN
1	6	702	GLN
1	6	706	ASN
1	h	322	GLN
1	h	377	GLN

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Mol	Chain	Res	Type
1	h	479	ASN
1	h	554	ASN
1	h	702	GLN
1	h	706	ASN
1	m	322	GLN
1	m	377	GLN
1	m	554	ASN
1	m	589	GLN
1	m	706	ASN
1	r	322	GLN
1	r	554	ASN
1	r	589	GLN
1	r	702	GLN
1	r	706	ASN
1	w	479	ASN
1	w	554	ASN
1	w	589	GLN
1	w	706	ASN
1	2	322	GLN
1	2	377	GLN
1	2	554	ASN
1	2	702	GLN
1	2	706	ASN
1	7	322	GLN
1	7	377	GLN
1	7	479	ASN
1	7	554	ASN
1	7	589	GLN
1	7	702	GLN
1	7	706	ASN
1	F	322	GLN
1	F	377	GLN
1	F	479	ASN
1	F	554	ASN
1	F	589	GLN
1	F	702	GLN
1	F	706	ASN
1	J	322	GLN
1	J	377	GLN
1	J	479	ASN
1	J	554	ASN
1	J	589	GLN

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Mol	Chain	Res	Type
1	J	706	ASN
1	N	322	GLN
1	N	377	GLN
1	N	479	ASN
1	N	554	ASN
1	N	589	GLN
1	N	702	GLN
1	N	706	ASN
1	R	377	GLN
1	R	479	ASN
1	R	554	ASN
1	R	589	GLN
1	R	706	ASN
1	V	322	GLN
1	V	377	GLN
1	V	479	ASN
1	V	554	ASN
1	V	702	GLN
1	V	706	ASN
1	Z	322	GLN
1	Z	377	GLN
1	Z	479	ASN
1	Z	554	ASN
1	Z	589	GLN
1	Z	702	GLN
1	Z	706	ASN
1	G	322	GLN
1	G	377	GLN
1	G	554	ASN
1	G	589	GLN
1	G	702	GLN
1	G	706	ASN
1	K	254	ASN
1	K	322	GLN
1	K	479	ASN
1	K	554	ASN
1	K	706	ASN
1	O	322	GLN
1	O	377	GLN
1	O	554	ASN
1	O	589	GLN
1	O	702	GLN

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Mol	Chain	Res	Type
1	O	706	ASN
1	S	377	GLN
1	S	554	ASN
1	S	589	GLN
1	S	706	ASN
1	W	322	GLN
1	W	377	GLN
1	W	554	ASN
1	W	589	GLN
1	W	702	GLN
1	W	706	ASN
1	a	254	ASN
1	a	322	GLN
1	a	479	ASN
1	a	554	ASN
1	a	589	GLN
1	a	702	GLN
1	H	322	GLN
1	H	377	GLN
1	H	554	ASN
1	H	589	GLN
1	H	702	GLN
1	H	706	ASN
1	L	254	ASN
1	L	322	GLN
1	L	479	ASN
1	L	554	ASN
1	L	589	GLN
1	L	706	ASN
1	P	322	GLN
1	P	377	GLN
1	P	554	ASN
1	P	589	GLN
1	P	702	GLN
1	T	254	ASN
1	T	554	ASN
1	T	589	GLN
1	T	706	ASN
1	X	322	GLN
1	X	377	GLN
1	X	479	ASN
1	X	554	ASN

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Mol	Chain	Res	Type
1	X	702	GLN
1	X	706	ASN
1	b	322	GLN
1	b	377	GLN
1	b	554	ASN
1	b	589	GLN
1	b	702	GLN
1	b	706	ASN
1	I	322	GLN
1	I	479	ASN
1	I	554	ASN
1	I	702	GLN
1	M	322	GLN
1	M	377	GLN
1	M	479	ASN
1	M	554	ASN
1	M	589	GLN
1	M	706	ASN
1	Q	322	GLN
1	Q	377	GLN
1	Q	479	ASN
1	Q	554	ASN
1	Q	589	GLN
1	Q	702	GLN
1	Q	706	ASN
1	U	377	GLN
1	U	479	ASN
1	U	554	ASN
1	U	706	ASN
1	Y	254	ASN
1	Y	322	GLN
1	Y	479	ASN
1	Y	554	ASN
1	Y	589	GLN
1	Y	702	GLN
1	Y	706	ASN
1	c	254	ASN
1	c	322	GLN
1	c	554	ASN
1	c	589	GLN
1	c	702	GLN
1	c	706	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

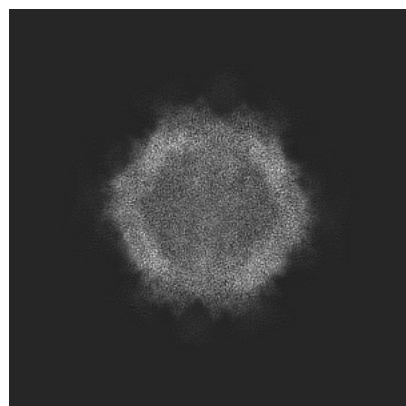
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-61205. These allow visual inspection of the internal detail of the map and identification of artifacts.

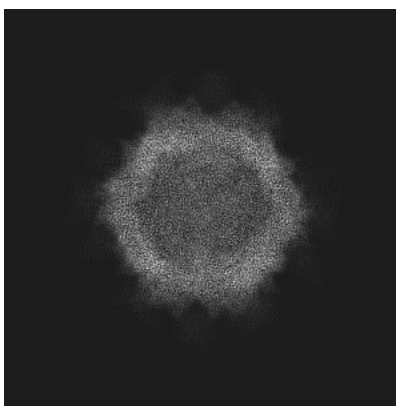
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

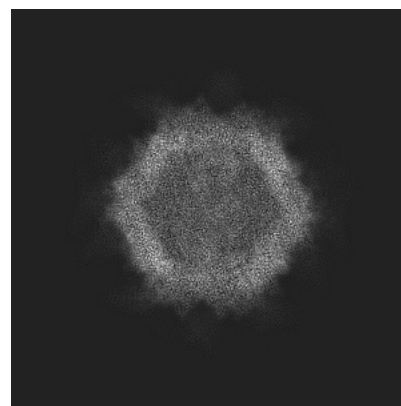
6.1.1 Primary map



X

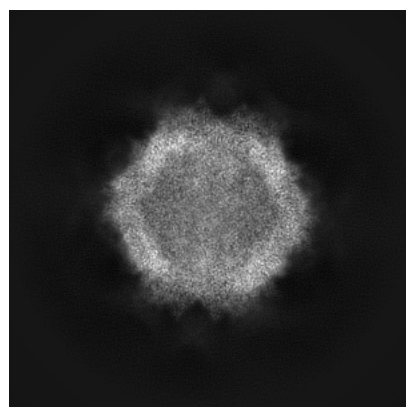


Y

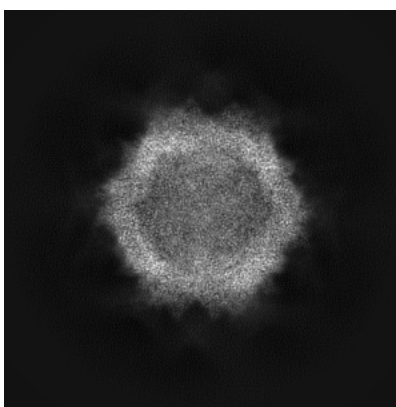


Z

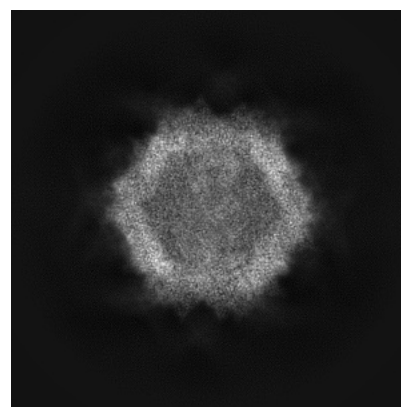
6.1.2 Raw map



X



Y

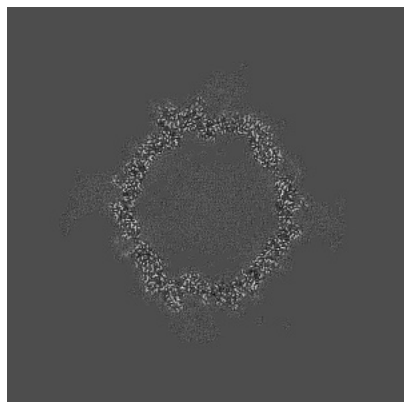


Z

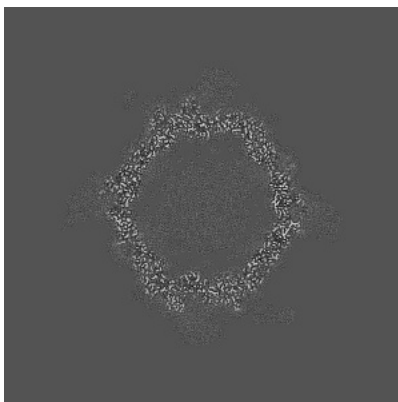
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

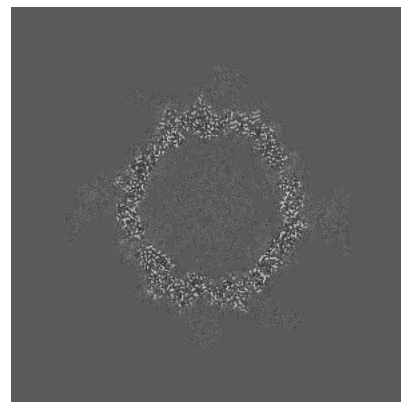
6.2.1 Primary map



X Index: 230

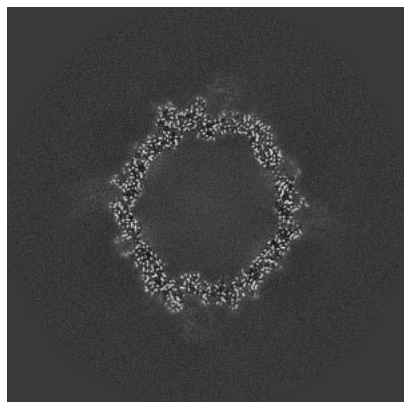


Y Index: 230

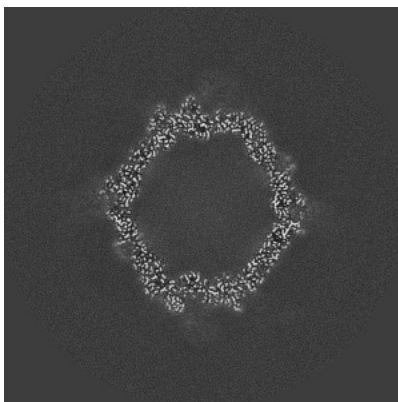


Z Index: 230

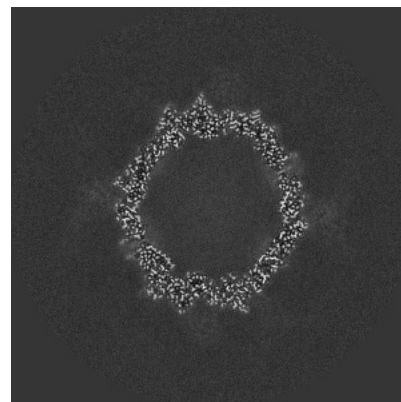
6.2.2 Raw map



X Index: 230



Y Index: 230

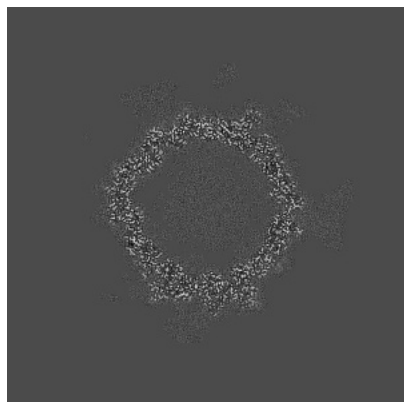


Z Index: 230

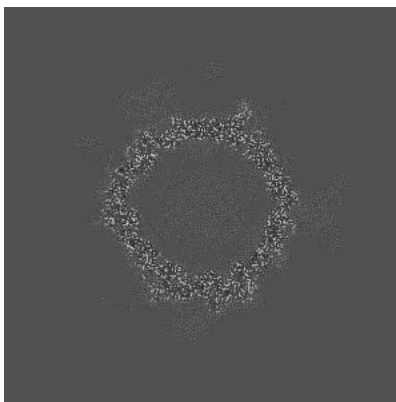
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

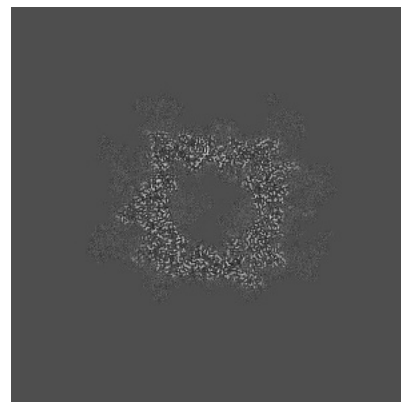
6.3.1 Primary map



X Index: 253

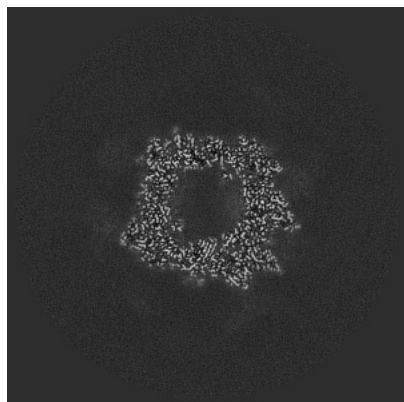


Y Index: 253

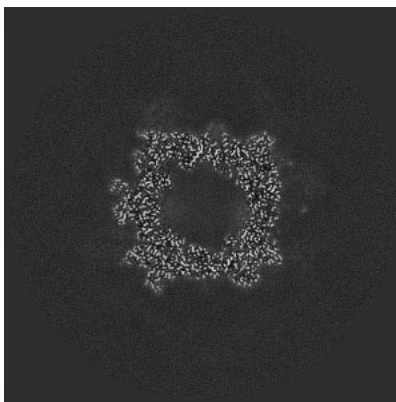


Z Index: 165

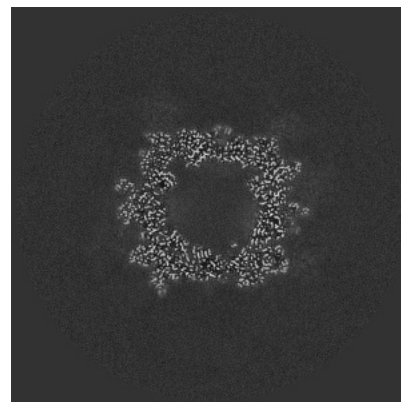
6.3.2 Raw map



X Index: 299



Y Index: 167

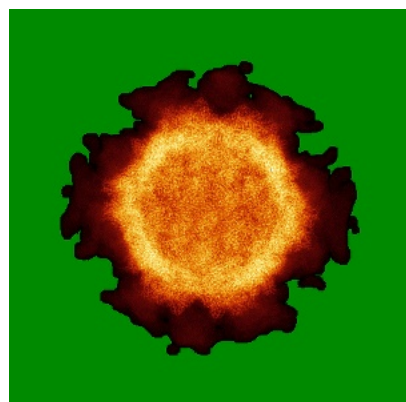


Z Index: 170

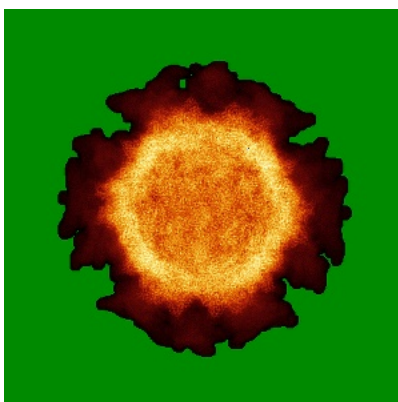
The images above show the largest variance slices of the map in three orthogonal directions.

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

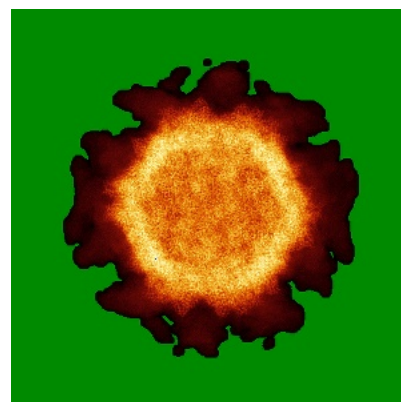
6.4.1 Primary map



X

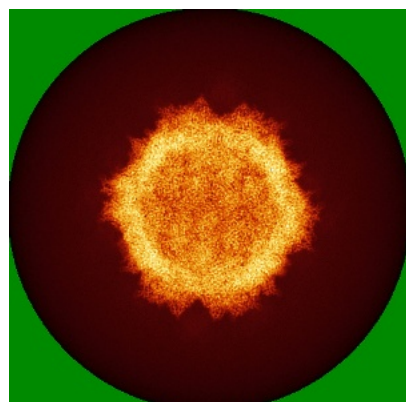


Y

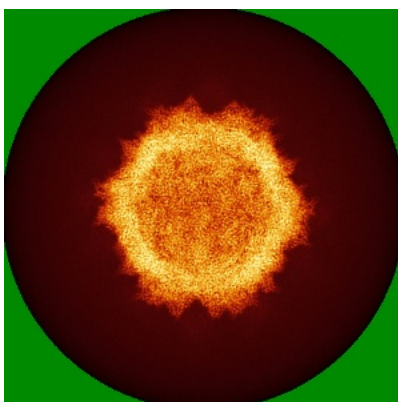


Z

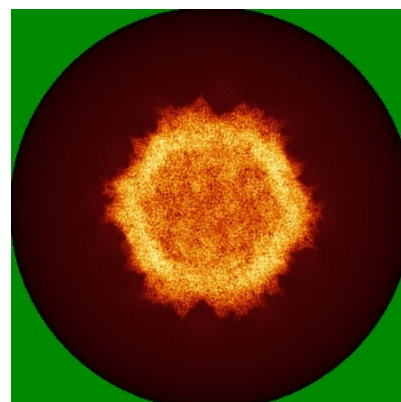
6.4.2 Raw map



X



Y

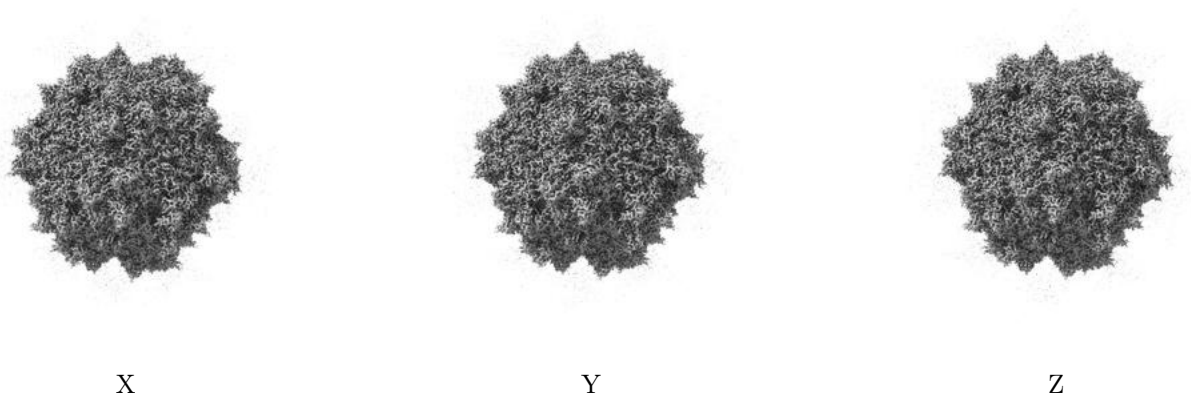


Z

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.

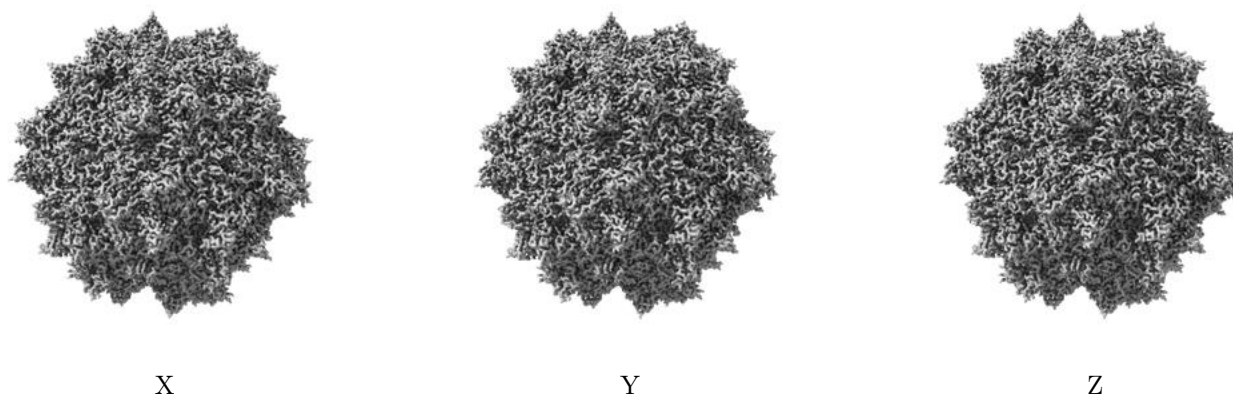
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.04. 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



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.

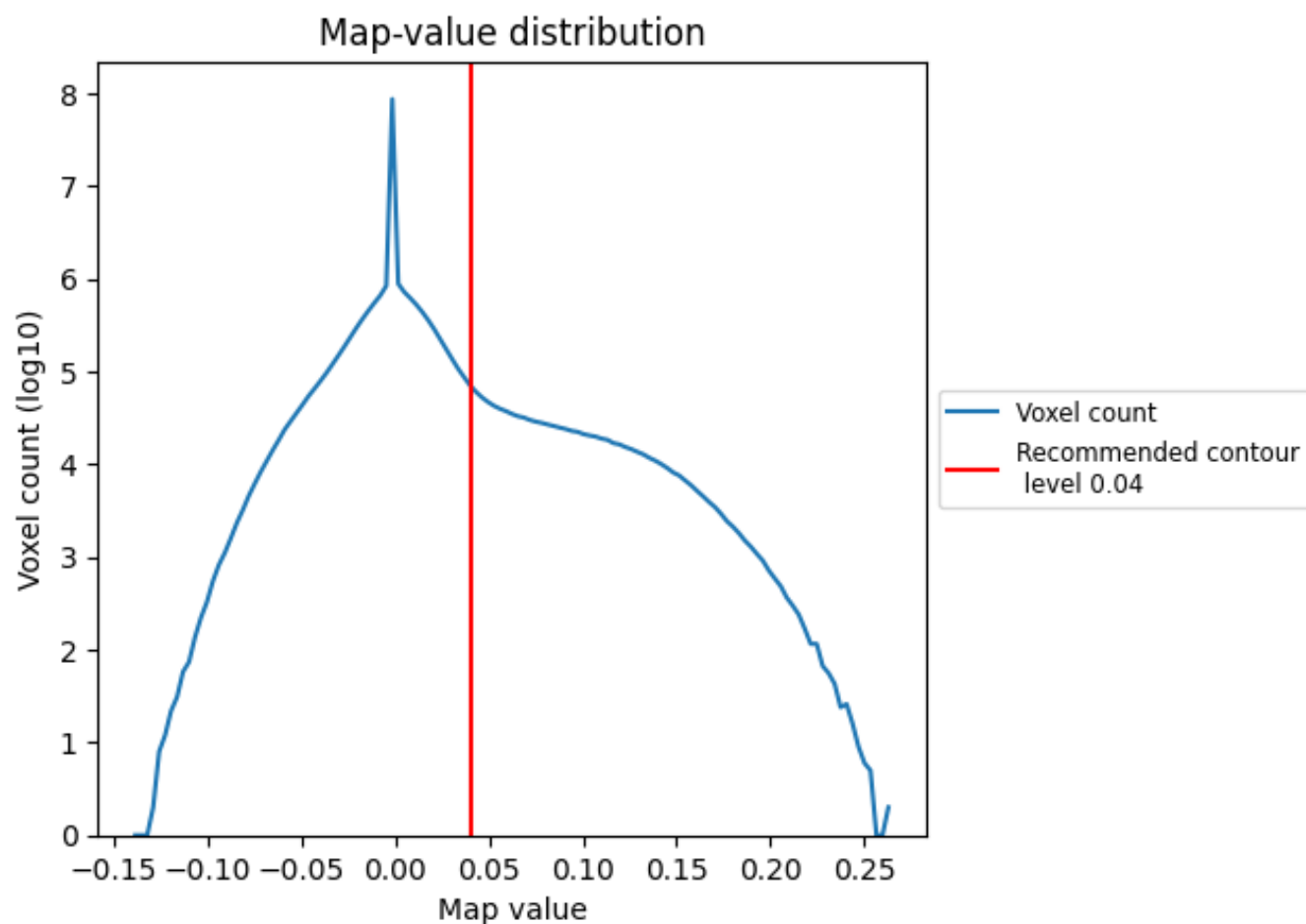
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

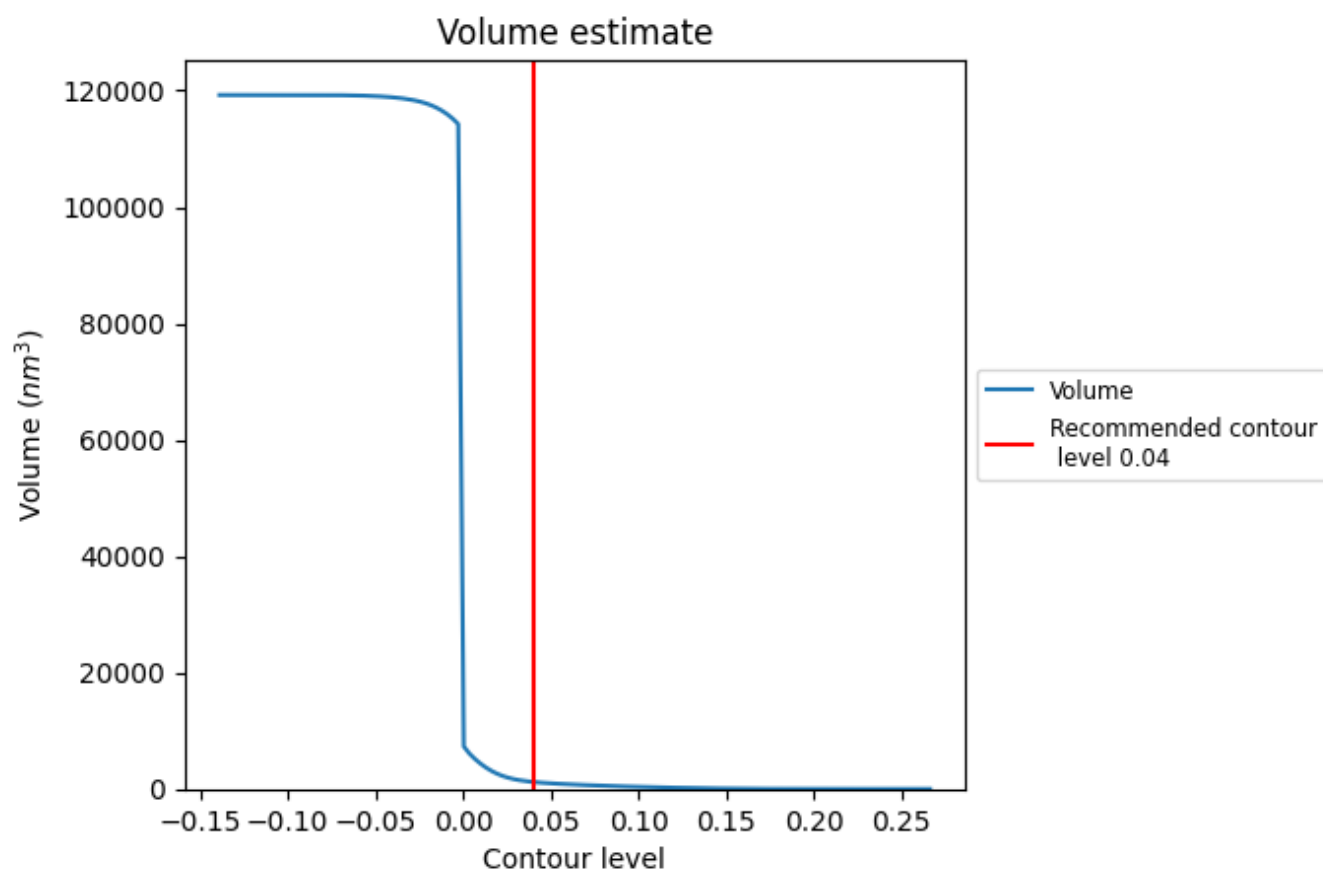
This section contains the results of statistical analysis of the map.

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.

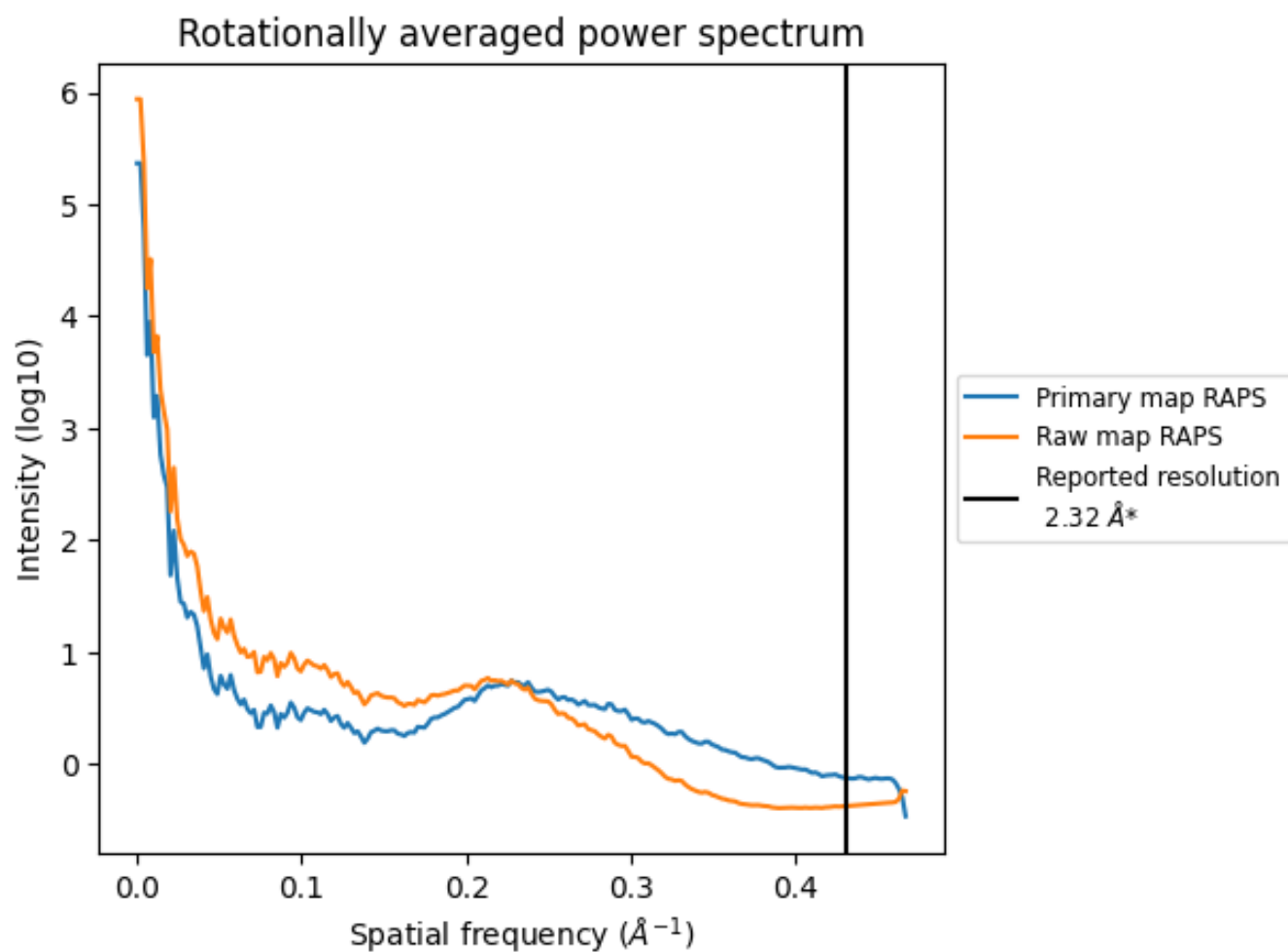
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1200 nm^3 ; this corresponds to an approximate mass of 1084 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 ⓘ

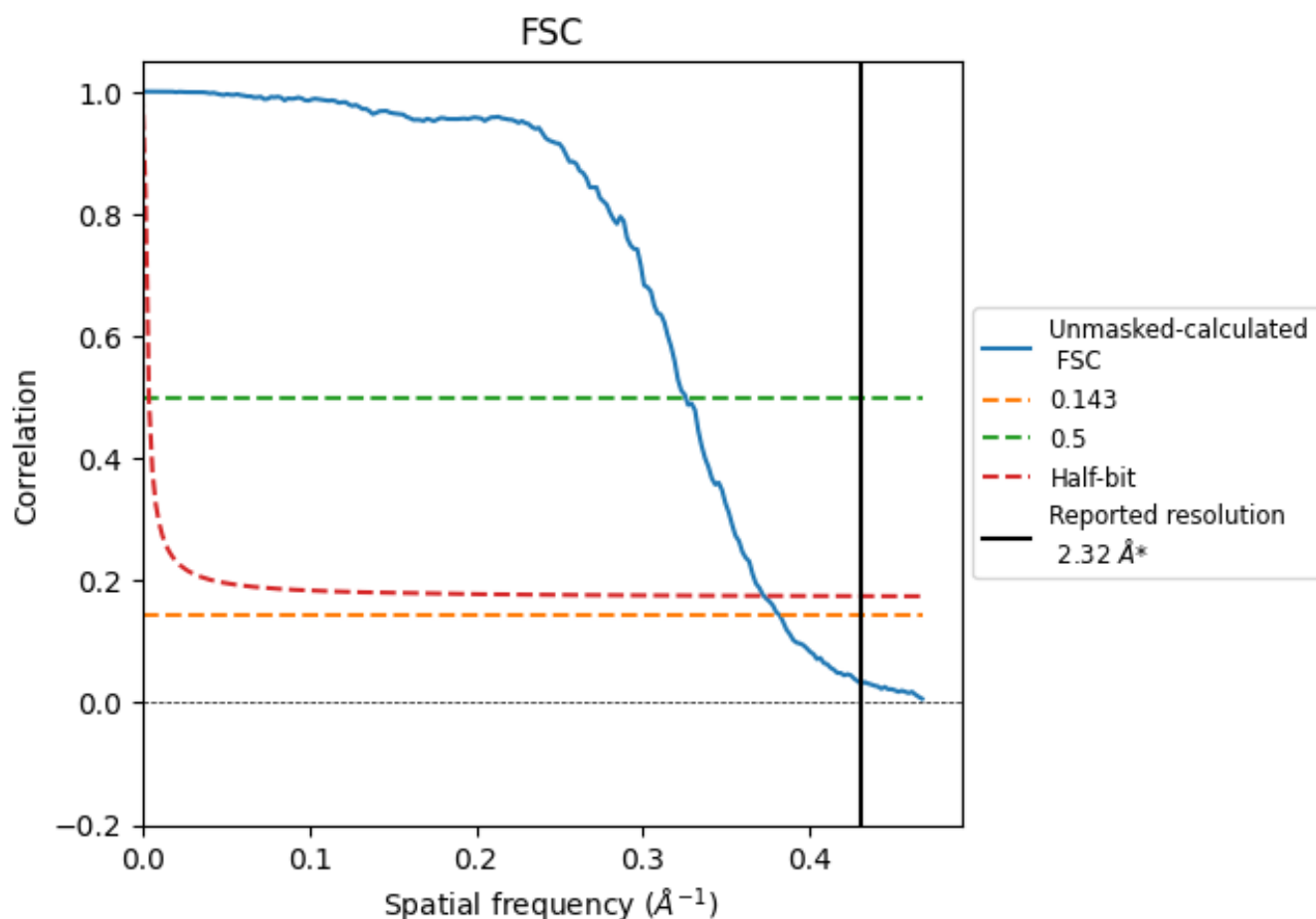


*Reported resolution corresponds to spatial frequency of 0.431 Å⁻¹

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 0.431 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

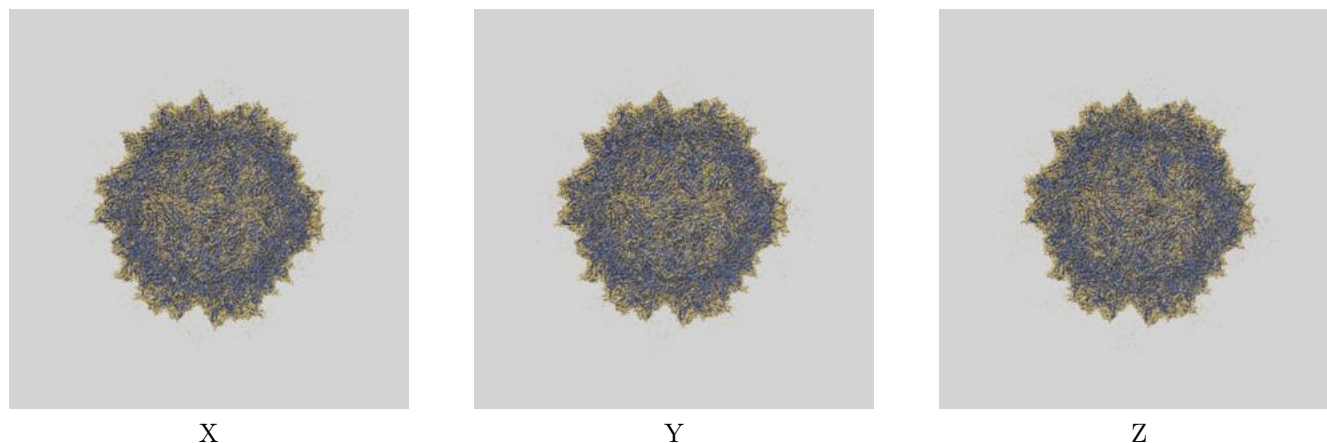
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.32	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.62	3.07	2.68

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.62 differs from the reported value 2.32 by more than 10 %

9 Map-model fit [i](#)

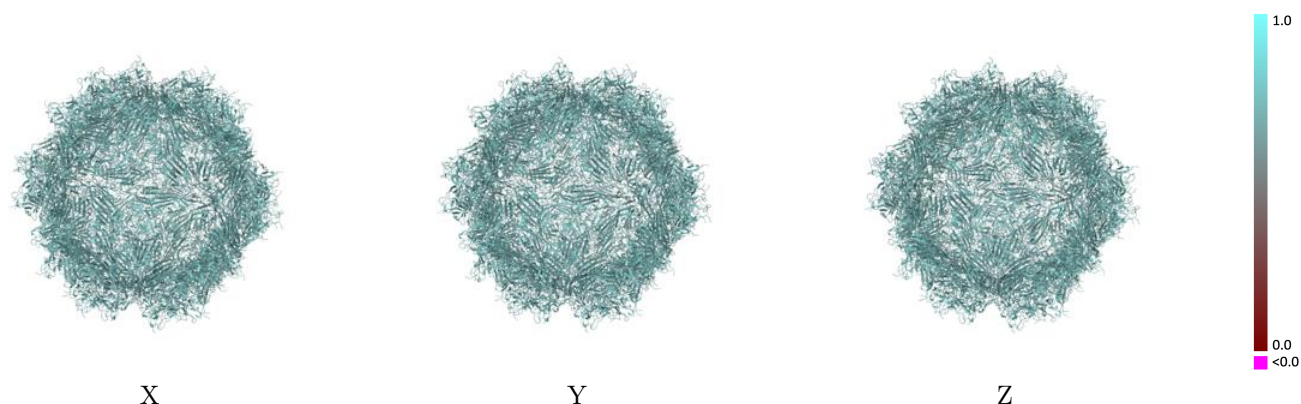
This section contains information regarding the fit between EMDB map EMD-61205 and PDB model 9J7K. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

9.1 Map-model overlay [i](#)



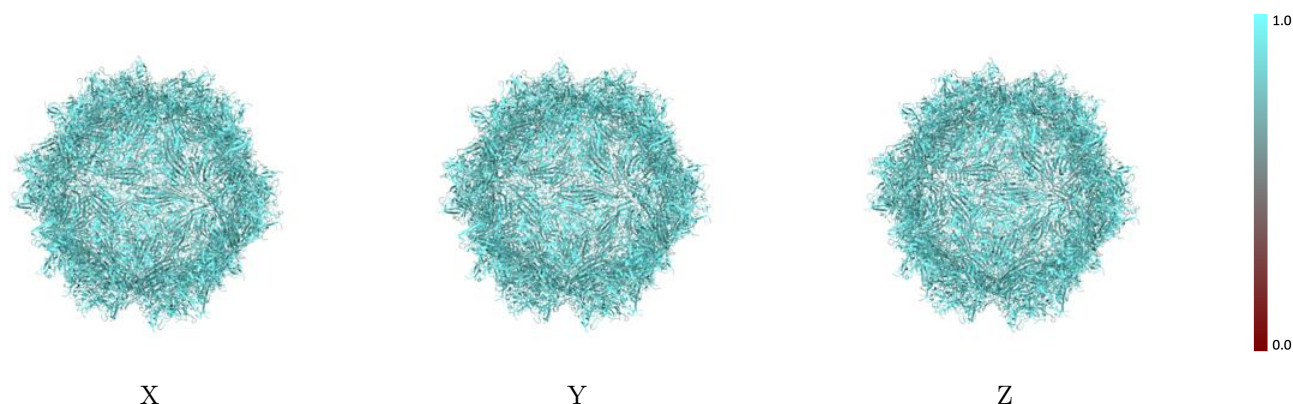
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



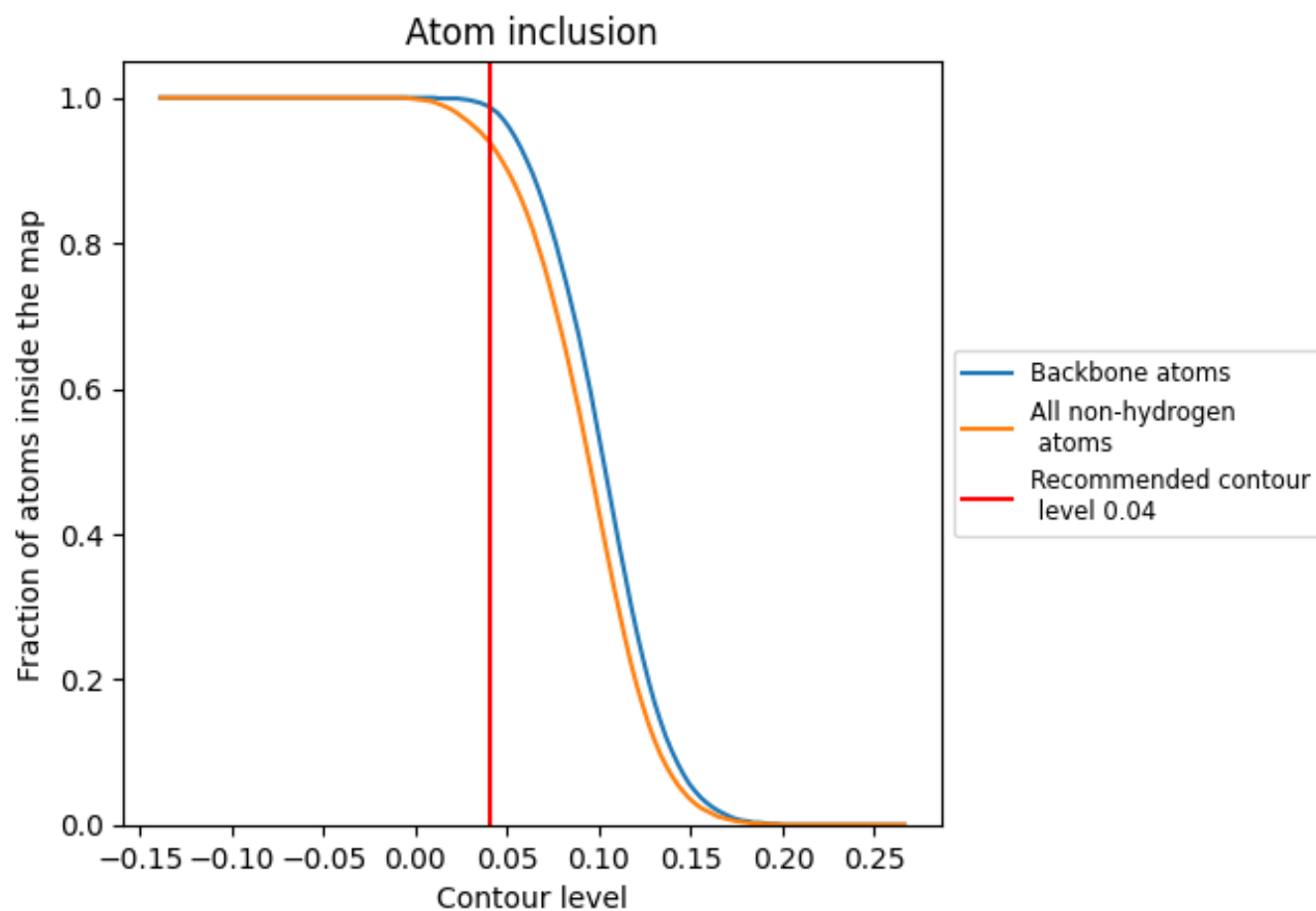
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).

9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9400	 0.7060
0	 0.9370	 0.7050
1	 0.9480	 0.7150
2	 0.9390	 0.7050
3	 0.9400	 0.7050
4	 0.9410	 0.7050
5	 0.9410	 0.7060
6	 0.9360	 0.7050
7	 0.9390	 0.7050
A	 0.9380	 0.7080
B	 0.9390	 0.7080
C	 0.9420	 0.7090
D	 0.9390	 0.7080
E	 0.9380	 0.7060
F	 0.9360	 0.7060
G	 0.9430	 0.7060
H	 0.9400	 0.7040
I	 0.9410	 0.7060
J	 0.9350	 0.7050
K	 0.9450	 0.7060
L	 0.9400	 0.7050
M	 0.9410	 0.7050
N	 0.9400	 0.7070
O	 0.9420	 0.7070
P	 0.9360	 0.7030
Q	 0.9360	 0.7040
R	 0.9410	 0.7050
S	 0.9400	 0.7050
T	 0.9350	 0.7050
U	 0.9400	 0.7050
V	 0.9420	 0.7080
W	 0.9410	 0.7070
X	 0.9410	 0.7060
Y	 0.9410	 0.7050
Z	 0.9400	 0.7050



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Chain	Atom inclusion	Q-score
a	 0.9390	 0.7060
b	 0.9360	 0.7050
c	 0.9390	 0.7080
d	 0.9410	 0.7060
e	 0.9420	 0.7040
f	 0.9360	 0.7080
g	 0.9390	 0.7060
h	 0.9400	 0.7070
i	 0.9380	 0.7050
j	 0.9440	 0.7070
k	 0.9400	 0.7040
l	 0.9380	 0.7040
m	 0.9370	 0.7060
n	 0.9390	 0.7050
o	 0.9440	 0.7070
p	 0.9370	 0.7050
q	 0.9420	 0.7050
r	 0.9410	 0.7060
s	 0.9400	 0.7090
t	 0.9440	 0.7050
u	 0.9380	 0.7060
v	 0.9380	 0.7060
w	 0.9430	 0.7060
x	 0.9400	 0.7040
y	 0.9400	 0.7040
z	 0.9380	 0.7050