Full wwPDB EM Validation Report

Mar 8, 2026 – 08:05 AM UTC

PDB ID	:	7L5Q / pdb_0000715q
EMDB ID	:	EMD-23189
Title	:	The empty AAV7 capsid
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2020-12-22
Resolution	:	2.96 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:

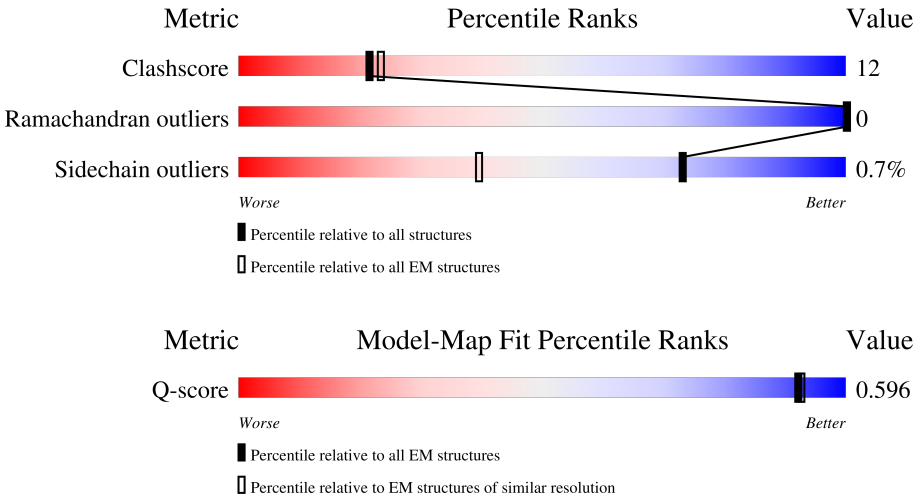
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 2.96 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	13155 (2.46 - 3.46)

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

Mol	Chain	Length	Quality of chain
1	1	520	73% 27%
1	2	520	73% 27%
1	3	520	73% 27%
1	4	520	72% 27%

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Mol	Chain	Length	Quality of chain
1	5	520	72% 27%
1	6	520	72% 28%
1	7	520	73% 27%
1	8	520	73% 27%
1	A	520	72% 27%
1	B	520	72% 27%
1	C	520	72% 28%
1	D	520	72% 28%
1	E	520	72% 28%
1	F	520	73% 27%
1	G	520	72% 28%
1	H	520	73% 27%
1	I	520	72% 28%
1	J	520	73% 27%
1	K	520	72% 28%
1	L	520	73% 27%
1	M	520	72% 28%
1	N	520	72% 28%
1	O	520	72% 27%
1	P	520	72% 28%
1	Q	520	72% 28%
1	R	520	73% 27%
1	S	520	73% 27%
1	T	520	72% 28%
1	U	520	72% 28%

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Mol	Chain	Length	Quality of chain
1	V	520	73% 27%
1	W	520	72% 27%
1	X	520	72% 28%
1	Y	520	73% 27%
1	Z	520	73% 27%
1	a	520	73% 27%
1	b	520	72% 28%
1	c	520	72% 28%
1	d	520	72% 28%
1	e	520	72% 28%
1	f	520	72% 28%
1	g	520	72% 28%
1	h	520	72% 28%
1	i	520	72% 28%
1	j	520	72% 28%
1	k	520	72% 28%
1	l	520	72% 28%
1	m	520	72% 28%
1	n	520	72% 28%
1	o	520	72% 28%
1	p	520	73% 27%
1	q	520	73% 27%
1	r	520	73% 27%
1	s	520	72% 28%
1	t	520	72% 28%

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Mol	Chain	Length	Quality of chain
1	u	520	72% 28%
1	v	520	72% 28%
1	w	520	72% 27%
1	x	520	72% 28%
1	y	520	73% 27%
1	z	520	73% 27%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 248640 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	B	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	C	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	D	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	E	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	F	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	G	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	H	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	I	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	J	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	K	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	L	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	M	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	N	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	O	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	P	520	Total 4144	C 2624	N 718	O 789	S 13	1	0
1	Q	520	Total 4144	C 2624	N 718	O 789	S 13	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	S	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	T	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	U	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	V	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	W	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	X	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	Y	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	Z	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	a	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	b	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	c	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	d	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	e	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	f	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	g	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	h	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	i	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	j	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	k	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	l	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	n	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	o	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	p	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	q	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	r	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	s	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	t	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	u	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	v	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	w	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	x	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	y	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	z	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	1	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	2	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	3	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	4	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	5	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	6	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		
1	7	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		

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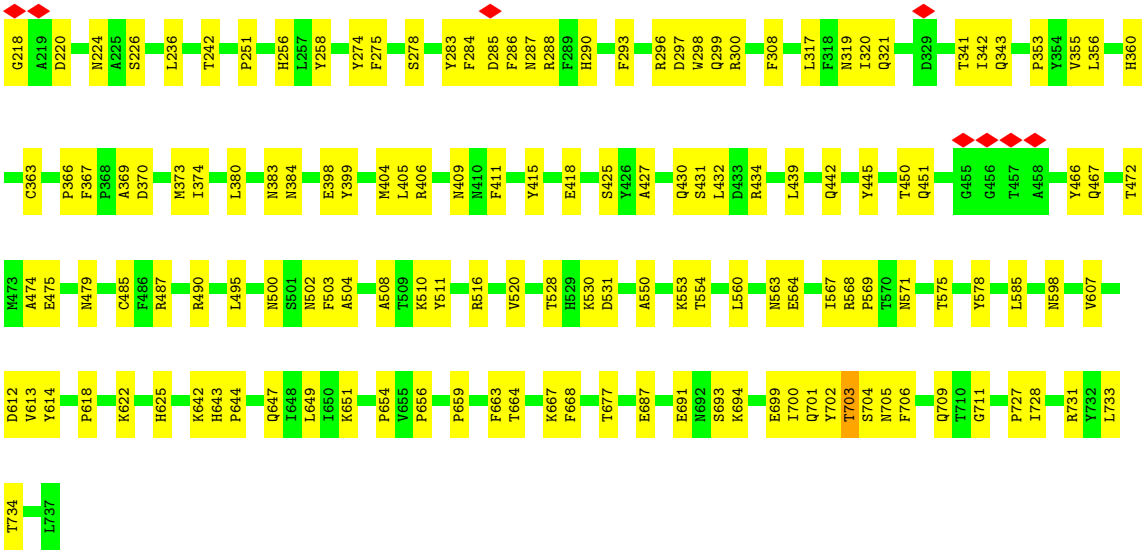
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	520	Total	C	N	O	S	1	0
			4144	2624	718	789	13		

3 Residue-property plots (i)

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

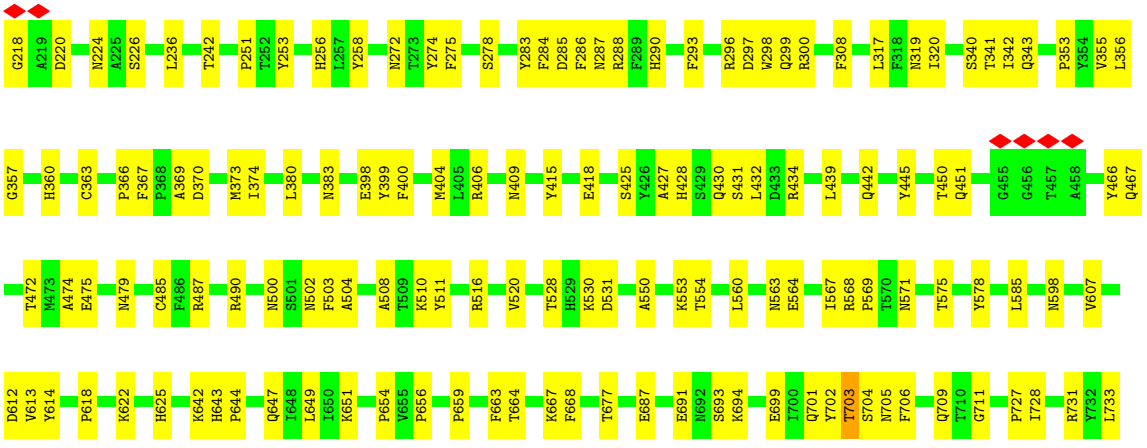
• Molecule 1: Capsid protein

Chain A:



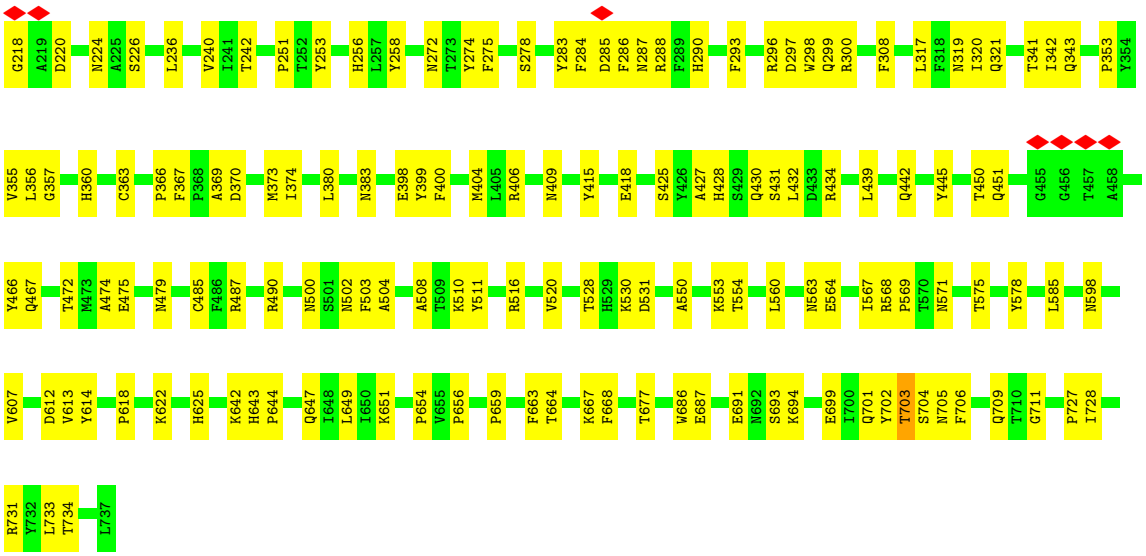
• Molecule 1: Capsid protein

Chain B:



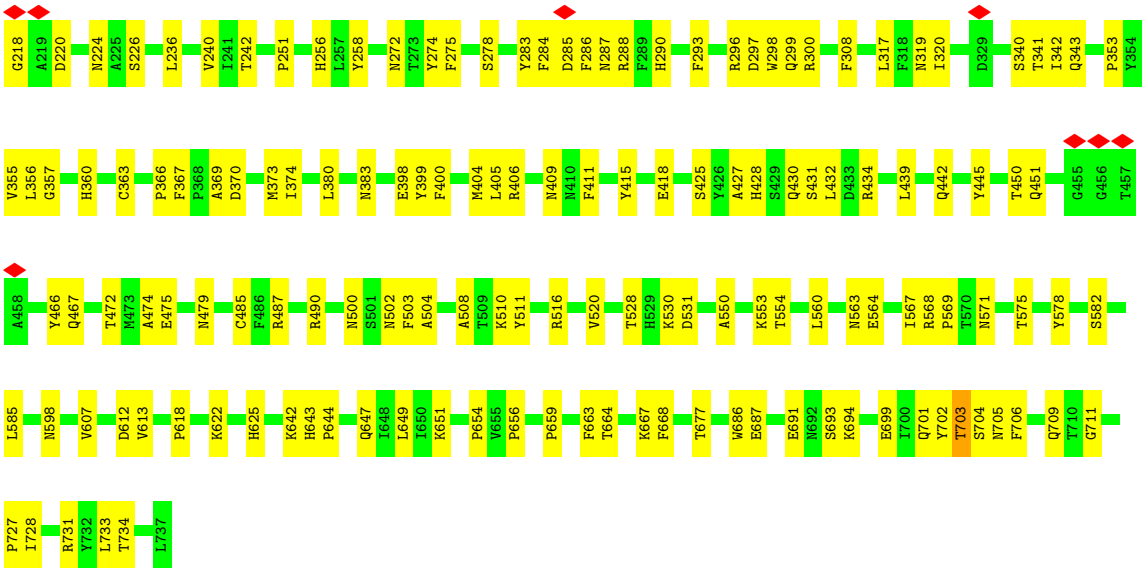
• Molecule 1: Capsid protein

Chain C:



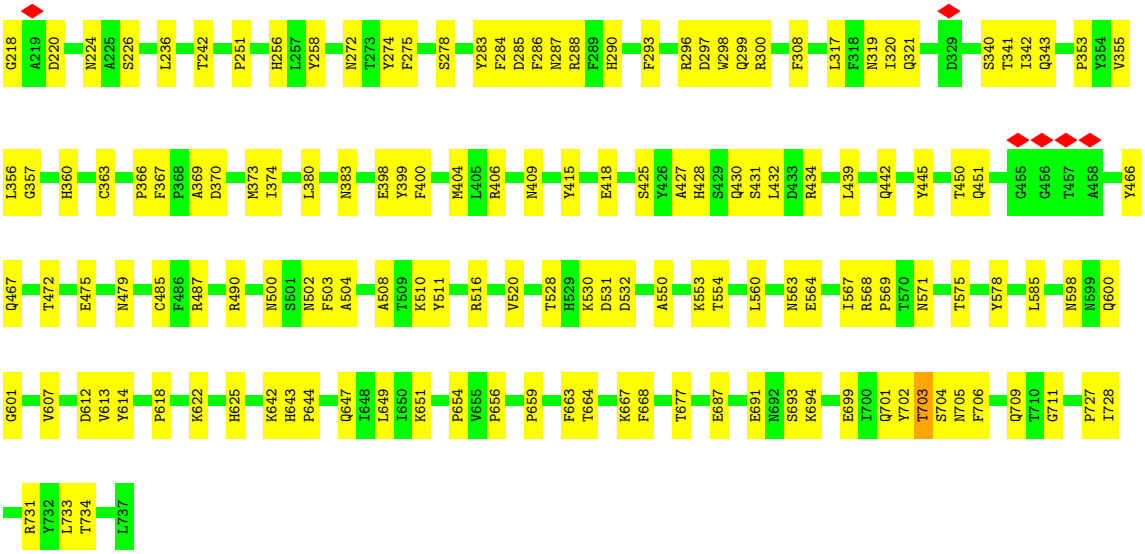
• Molecule 1: Capsid protein

Chain D:



• Molecule 1: Capsid protein

Chain E:

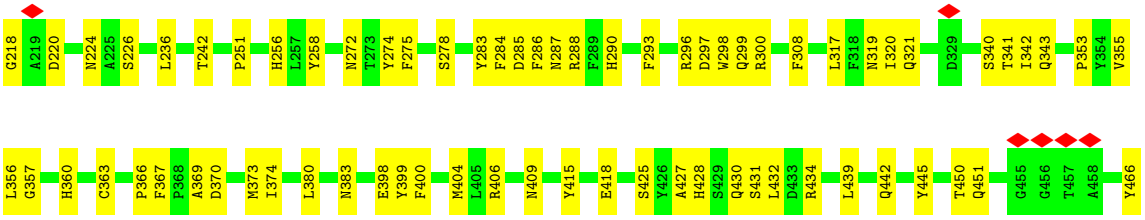


• Molecule 1: Capsid protein

Chain F:

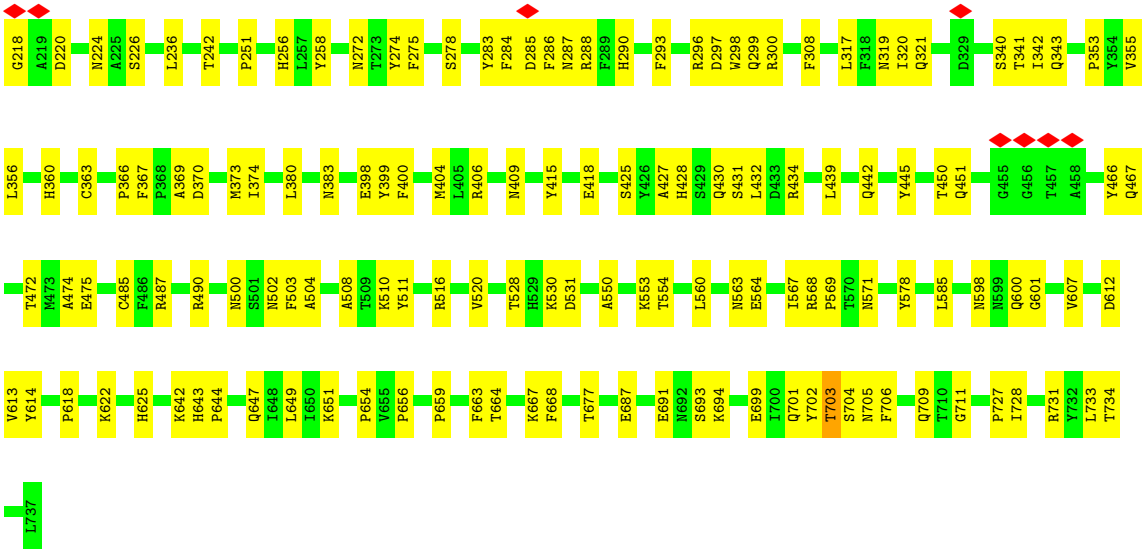
• Molecule 1: Capsid protein

Chain G:



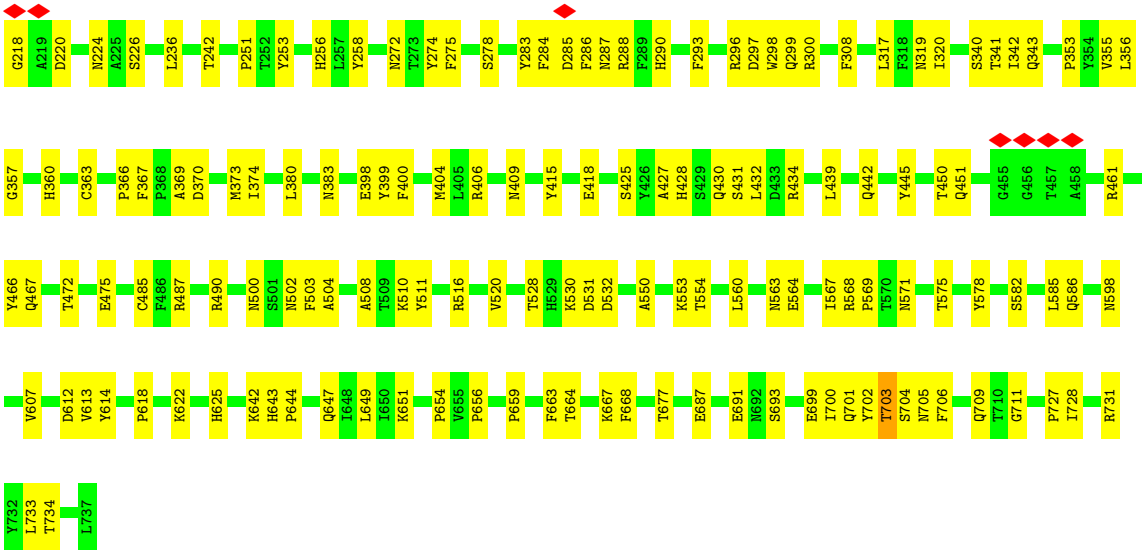
• Molecule 1: Capsid protein

Chain H:



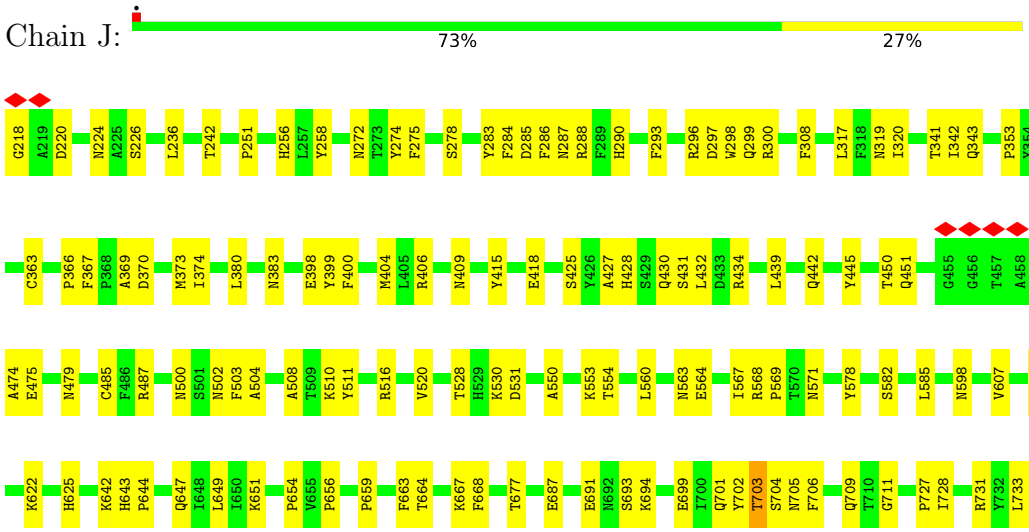
• Molecule 1: Capsid protein

Chain I:



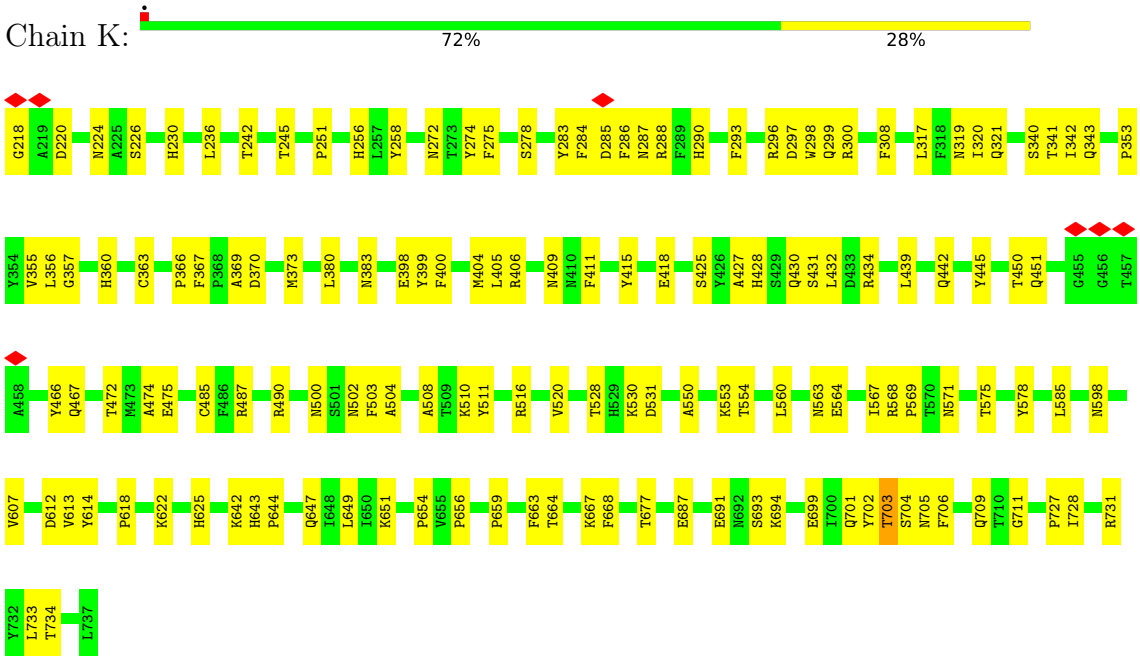
• Molecule 1: Capsid protein

Chain J:



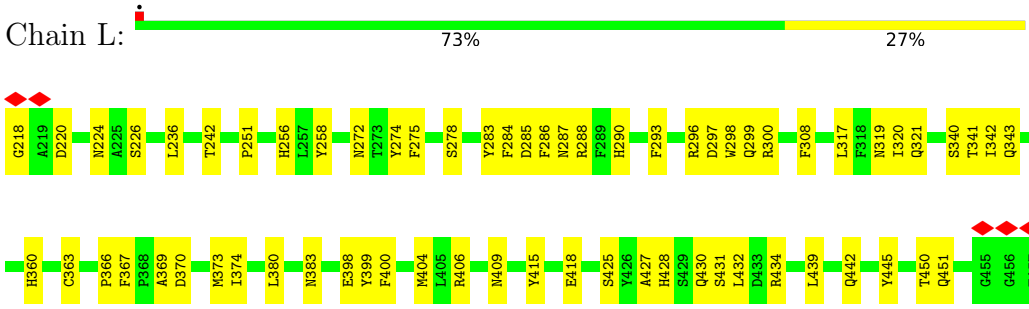
• Molecule 1: Capsid protein

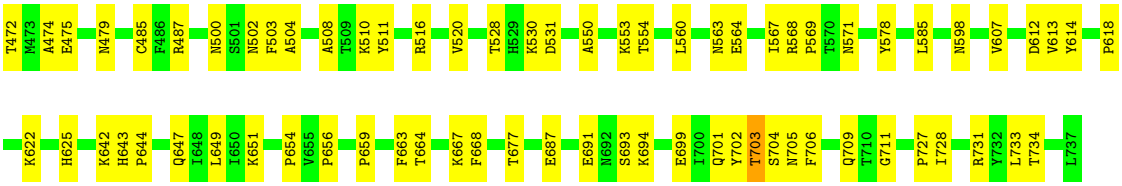
Chain K:



• Molecule 1: Capsid protein

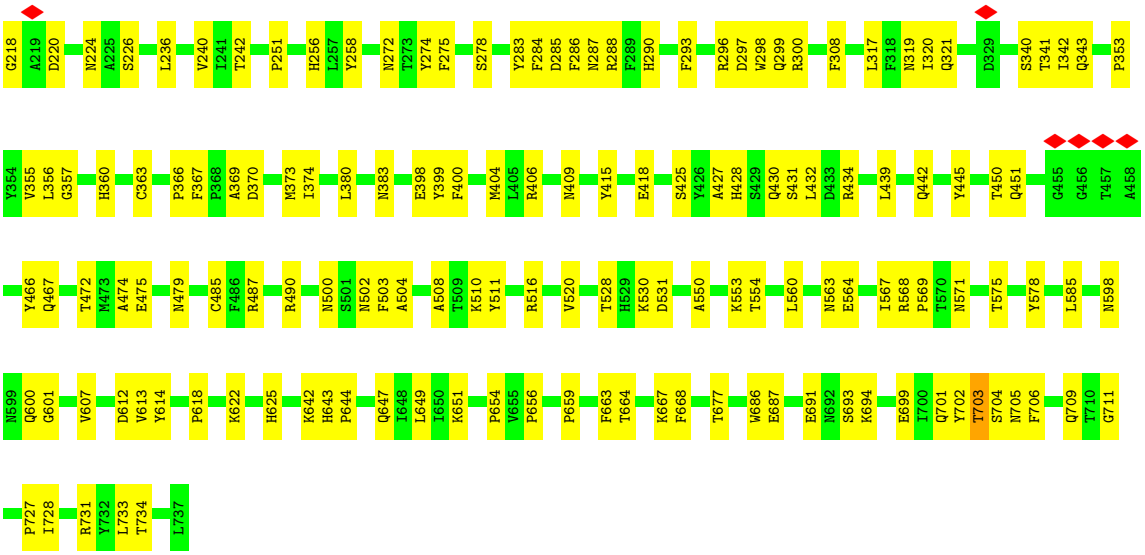
Chain L:





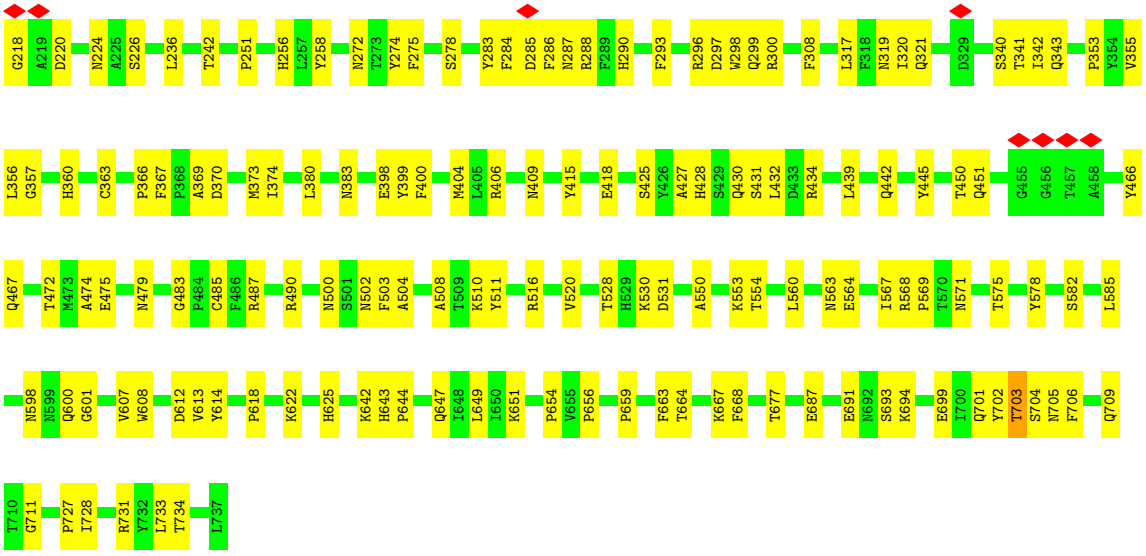
• Molecule 1: Capsid protein

Chain M:



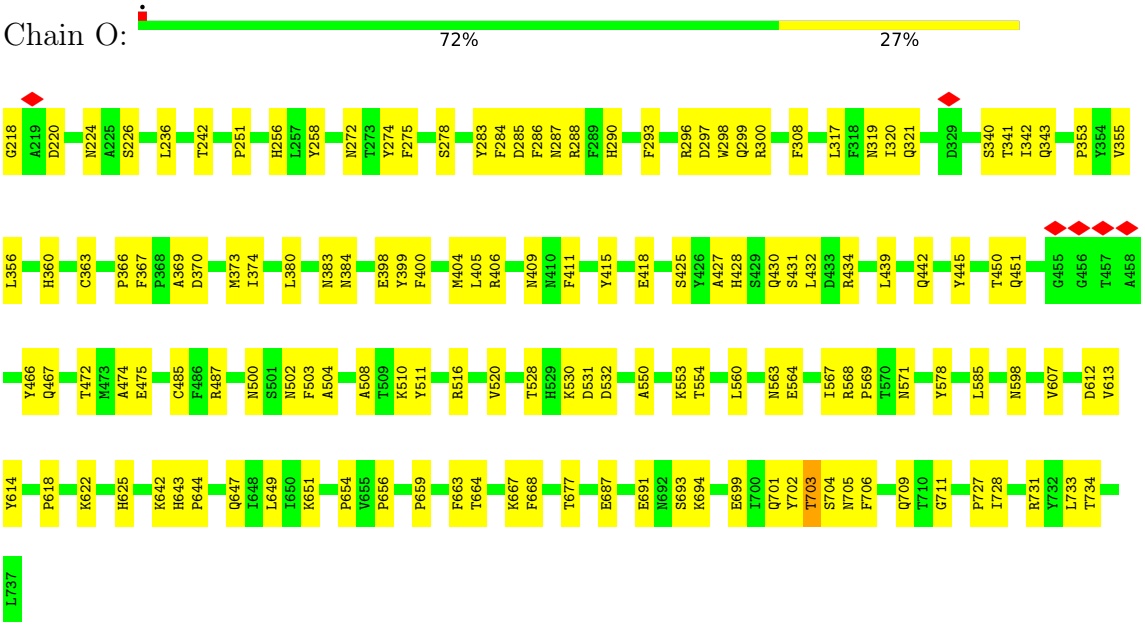
• Molecule 1: Capsid protein

Chain N:



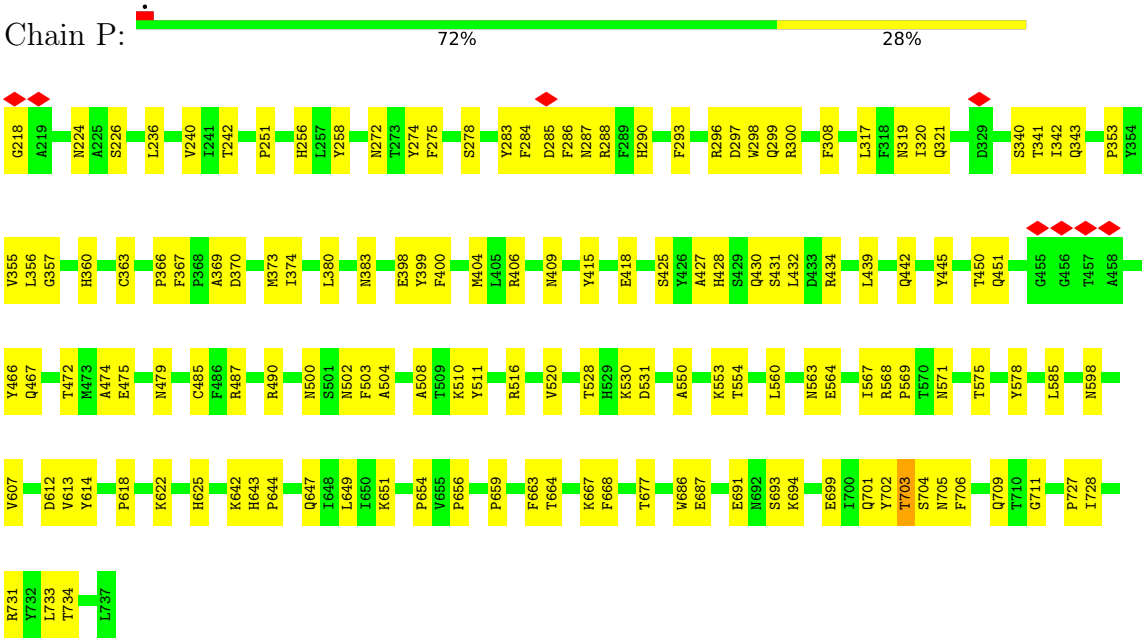
• Molecule 1: Capsid protein

Chain O:



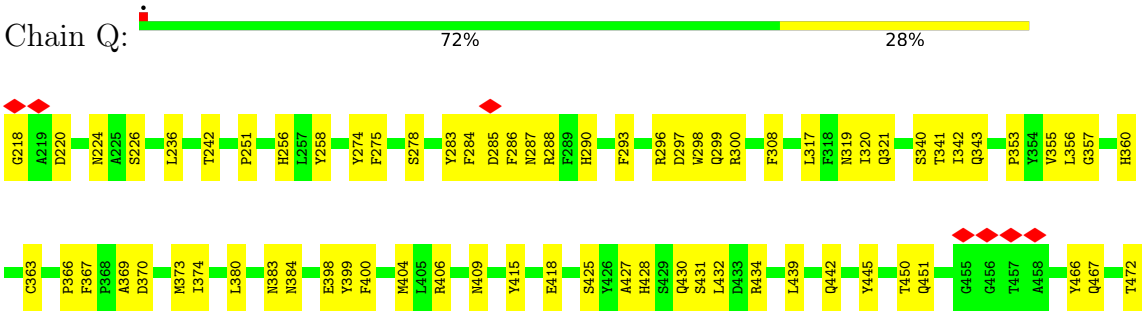
• Molecule 1: Capsid protein

Chain P:



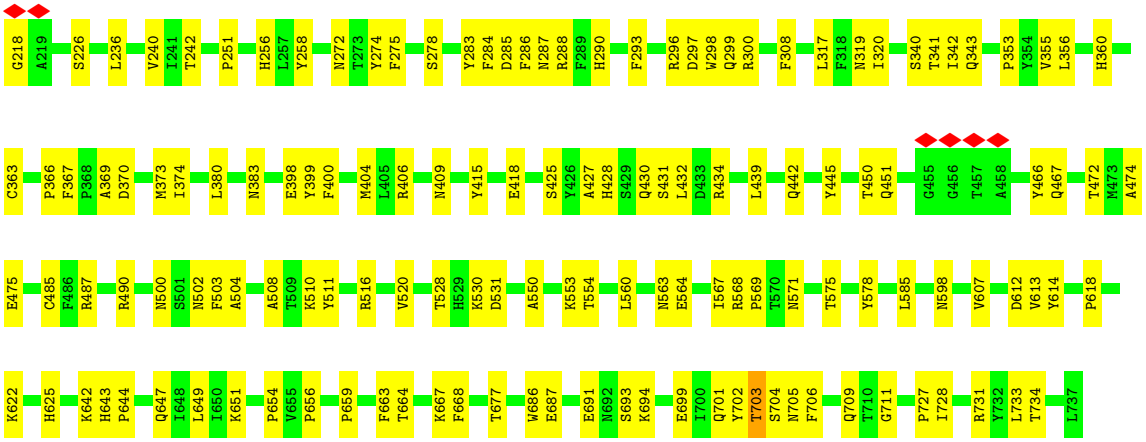
• Molecule 1: Capsid protein

Chain Q:



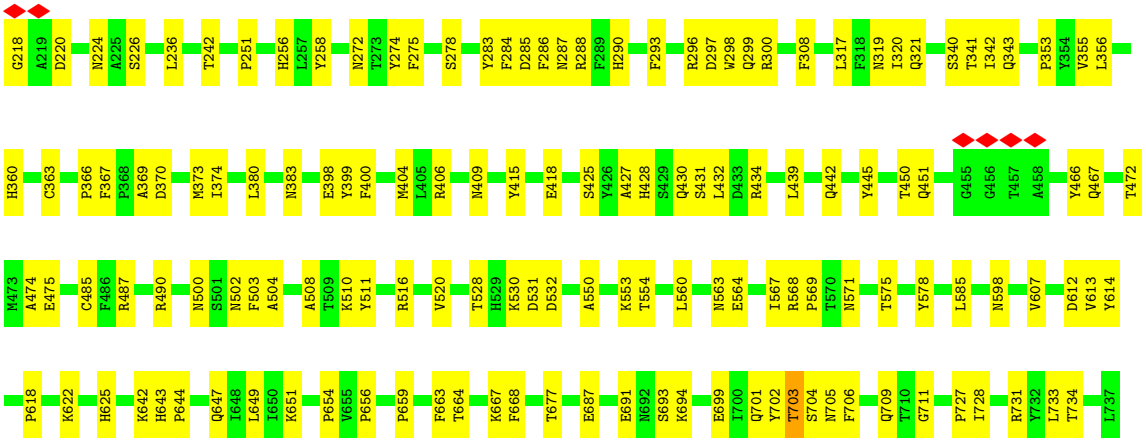
• Molecule 1: Capsid protein

Chain R:



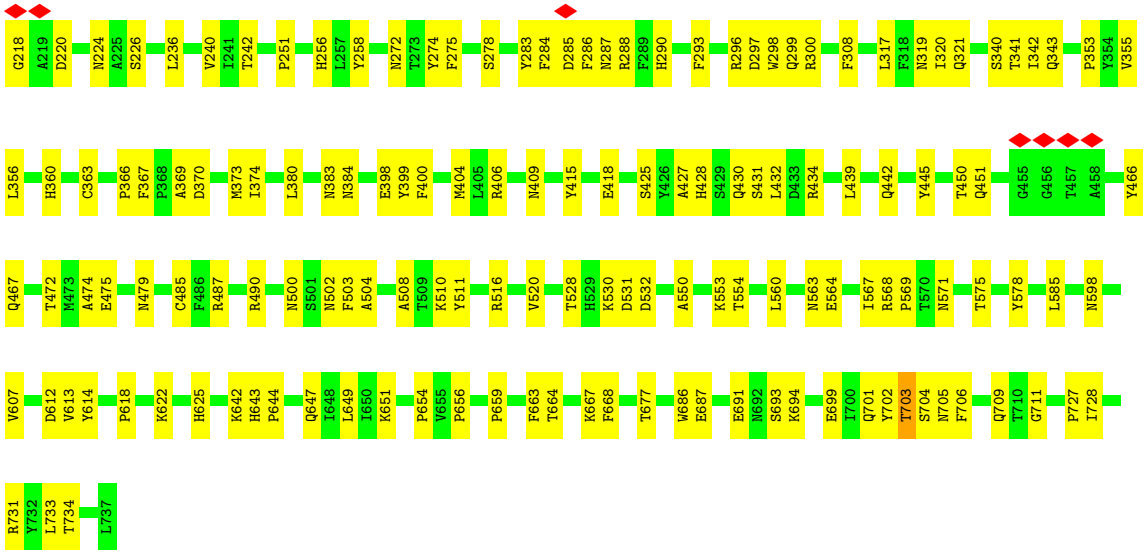
• Molecule 1: Capsid protein

Chain S:



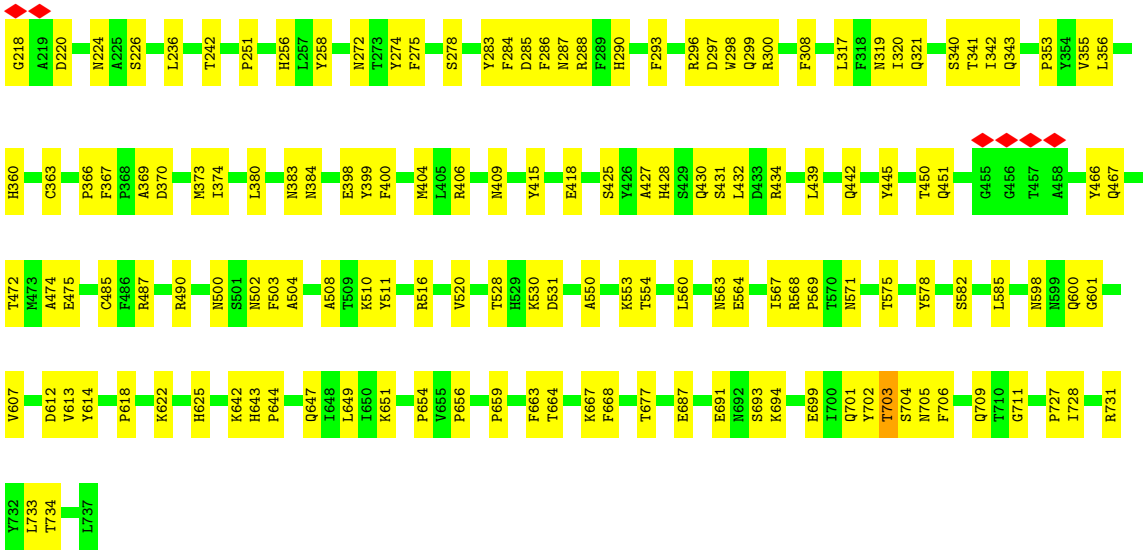
• Molecule 1: Capsid protein

Chain T:



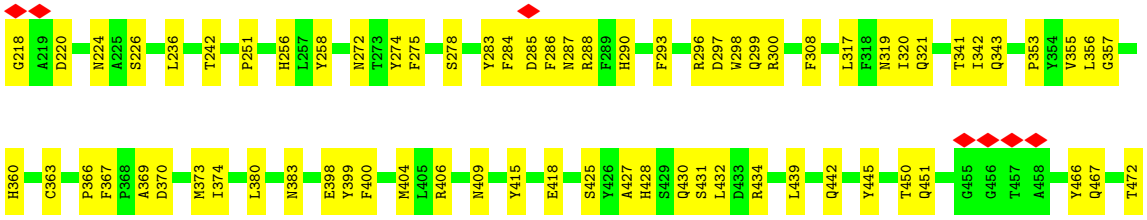
• Molecule 1: Capsid protein

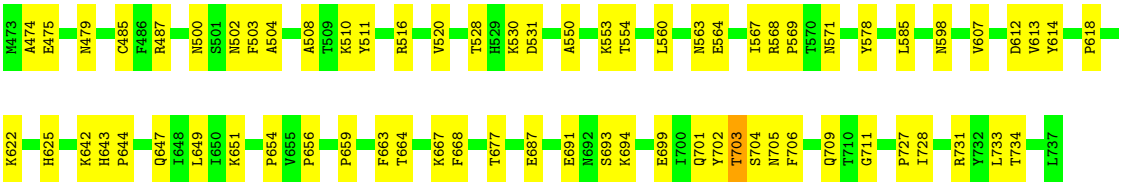
Chain U:



• Molecule 1: Capsid protein

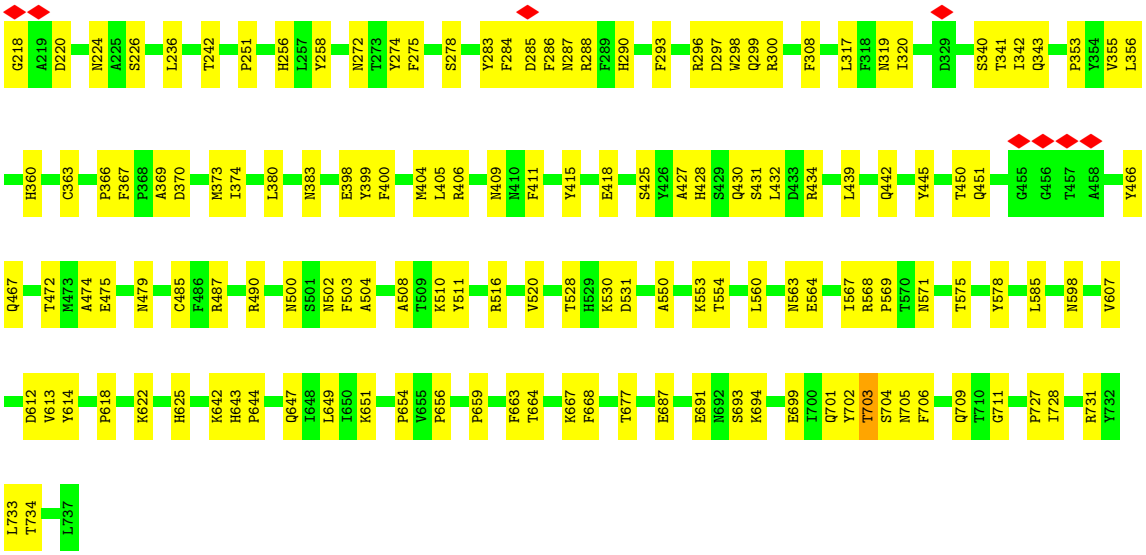
Chain V:





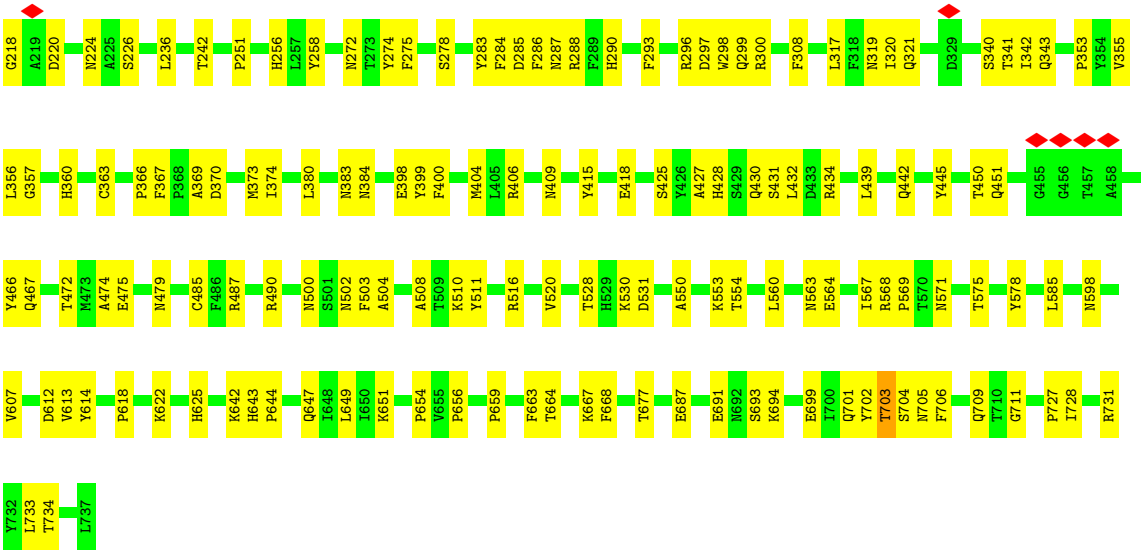
• Molecule 1: Capsid protein

Chain W:



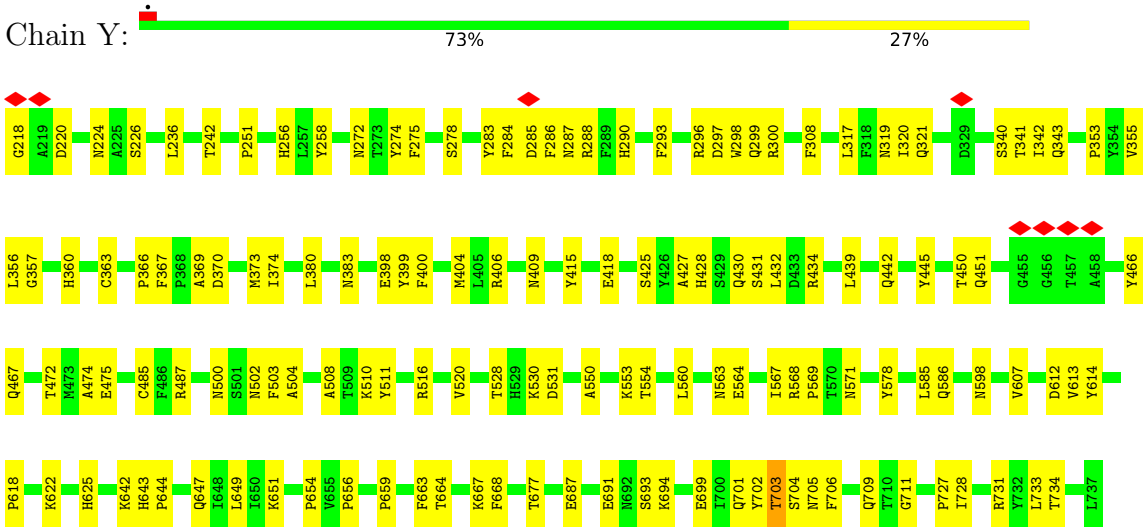
• Molecule 1: Capsid protein

Chain X:



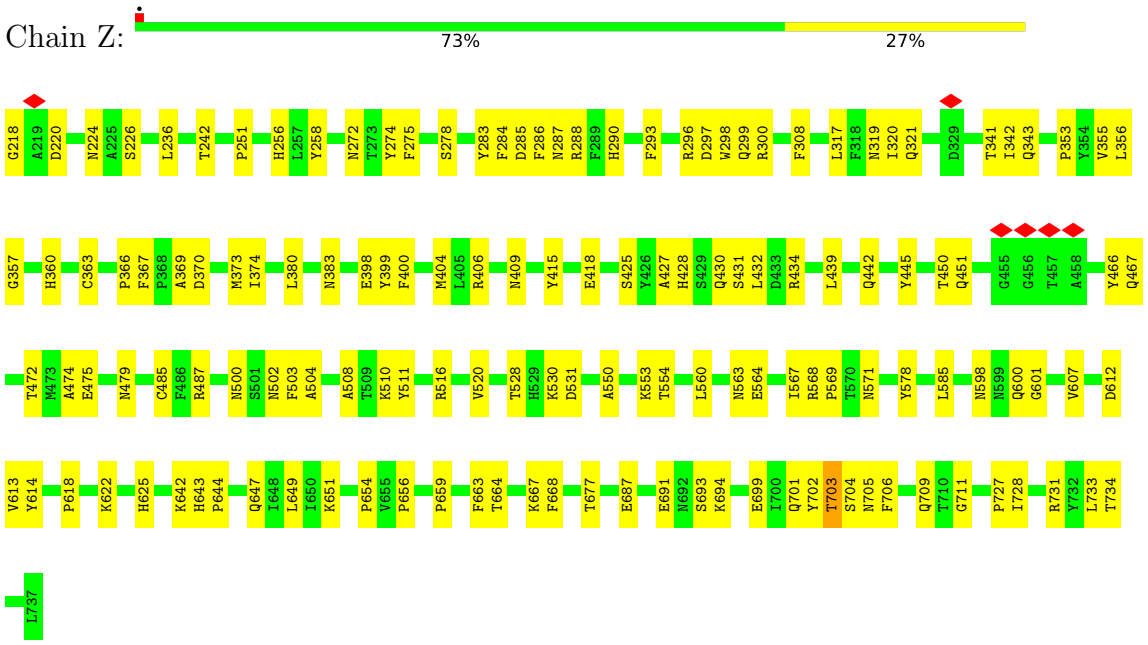
• Molecule 1: Capsid protein

Chain Y:



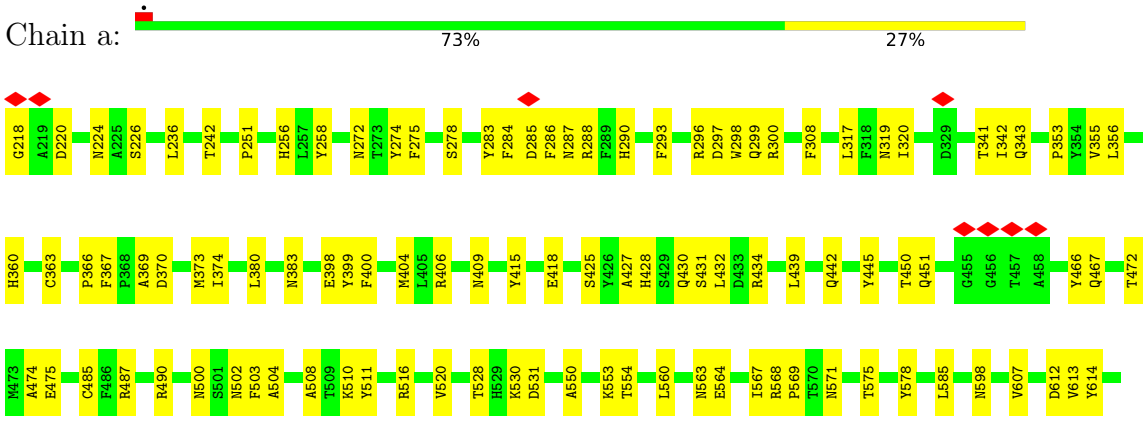
• Molecule 1: Capsid protein

Chain Z:



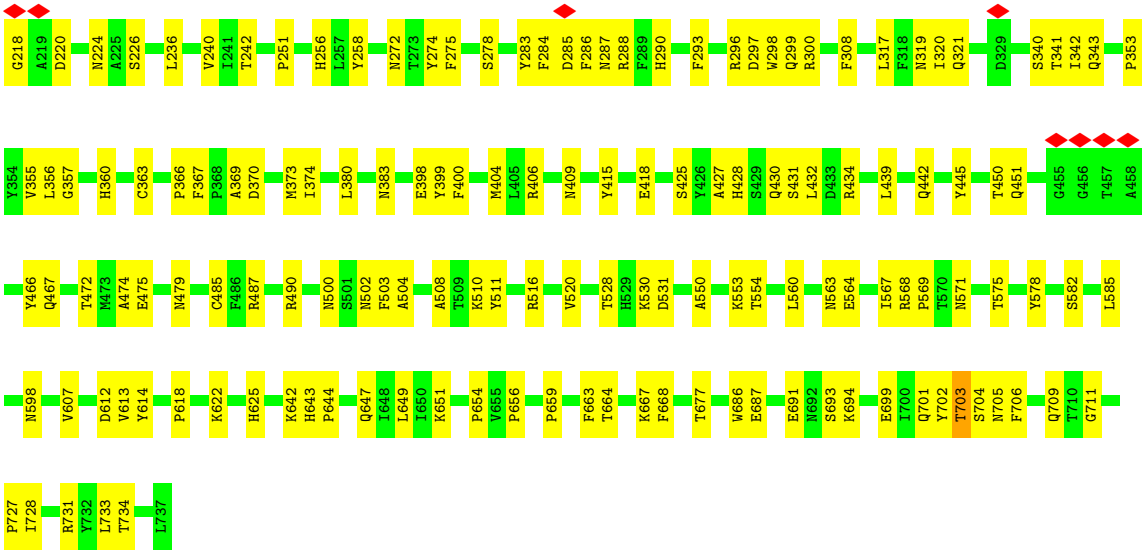
• Molecule 1: Capsid protein

Chain a:



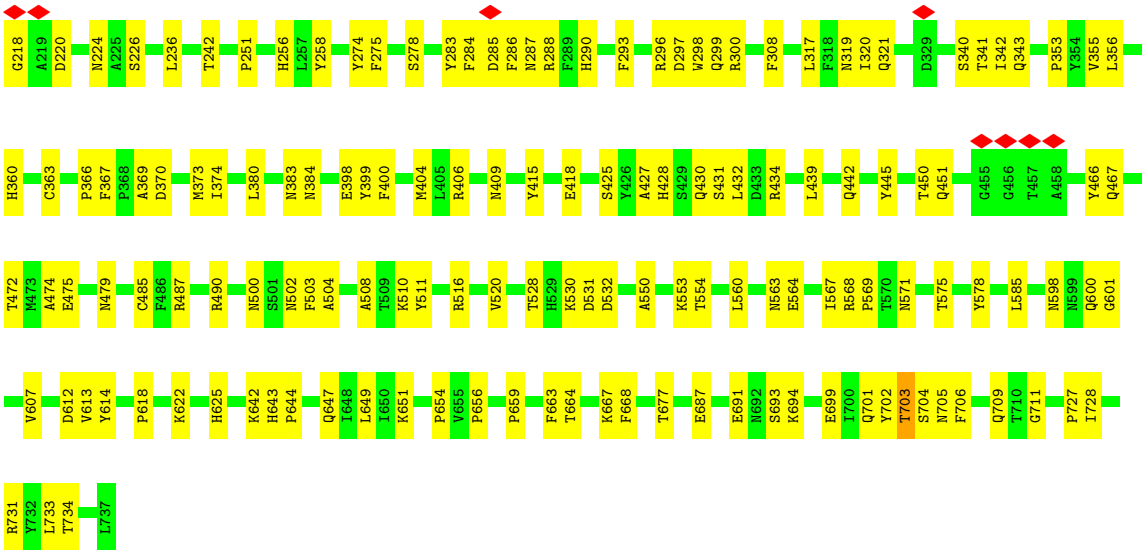
• Molecule 1: Capsid protein

Chain b:



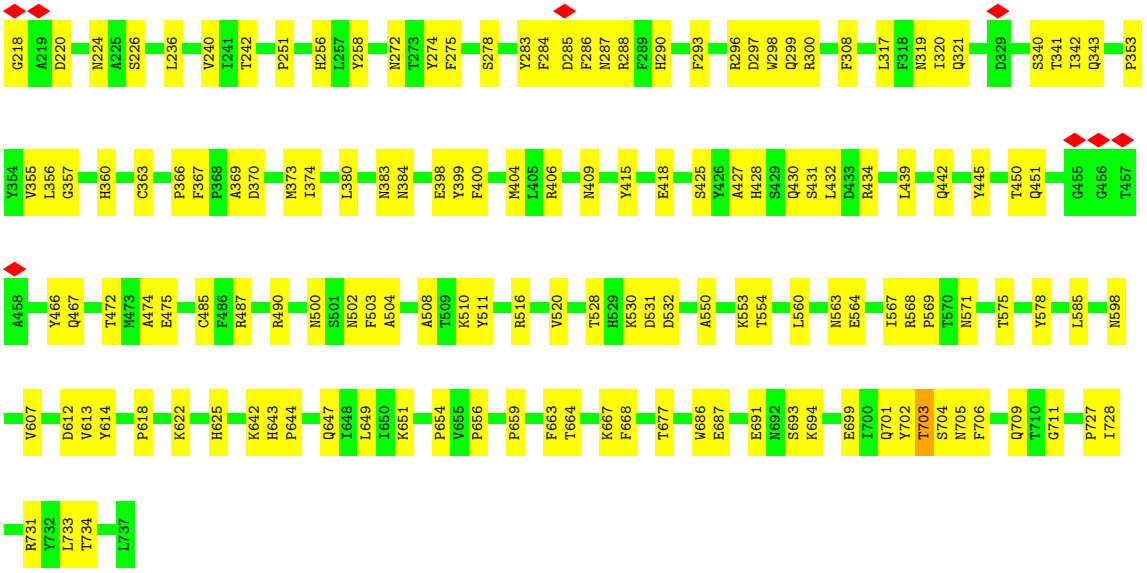
• Molecule 1: Capsid protein

Chain c:



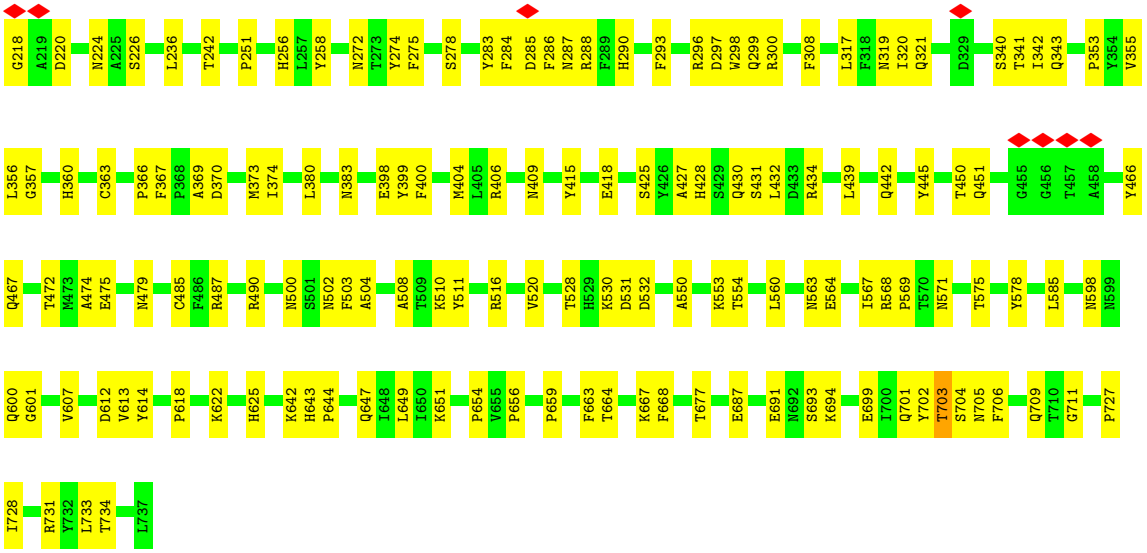
• Molecule 1: Capsid protein

Chain d:



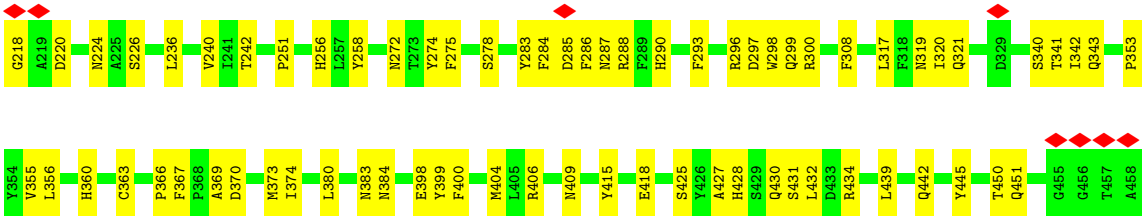
• Molecule 1: Capsid protein

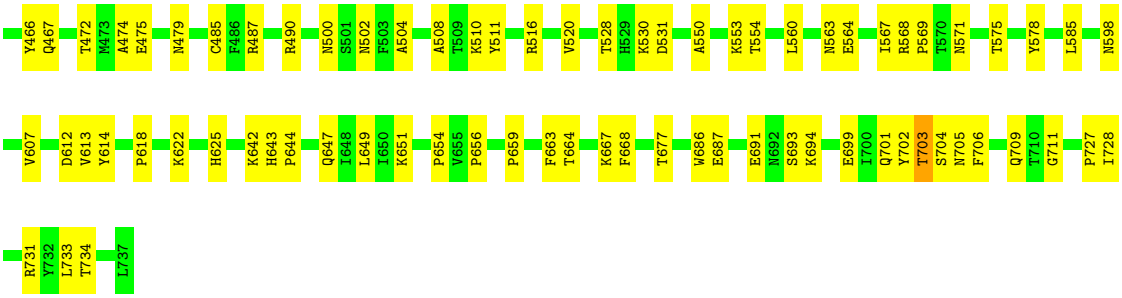
Chain e:



• Molecule 1: Capsid protein

Chain f:



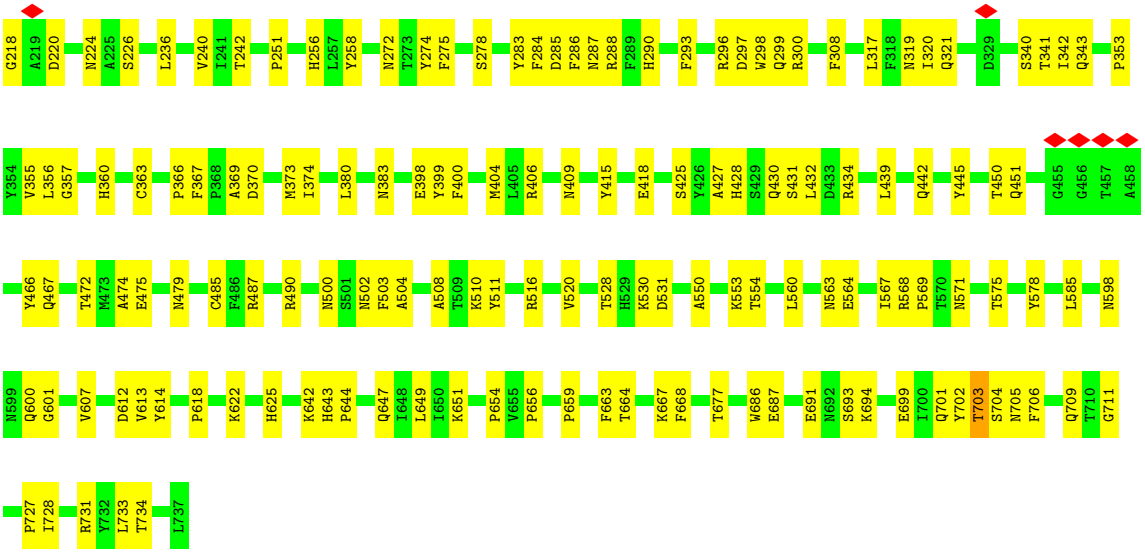


• Molecule 1: Capsid protein

Chain g:

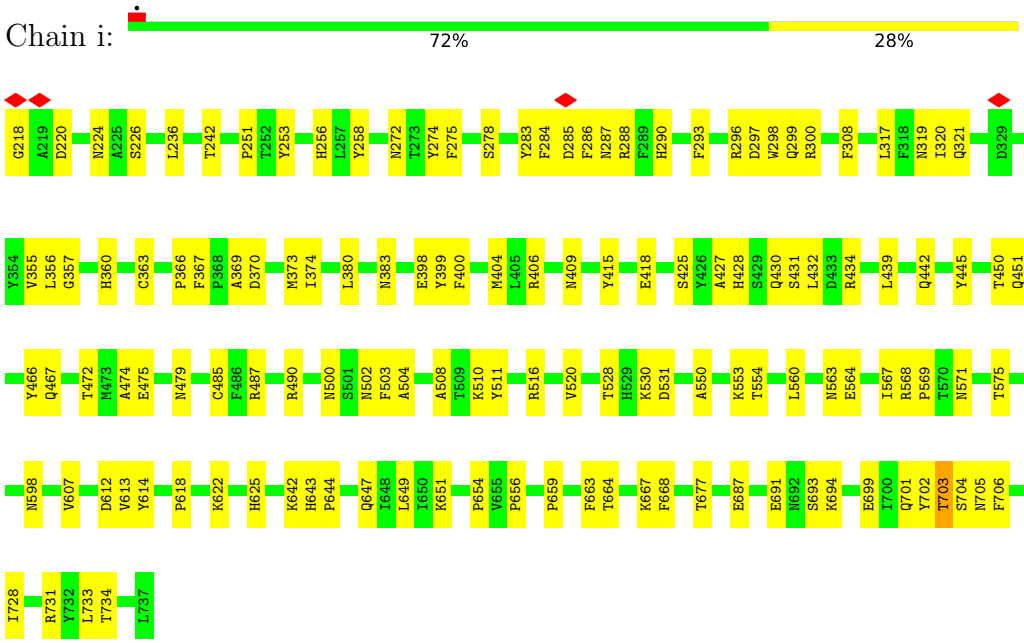
• Molecule 1: Capsid protein

Chain h:



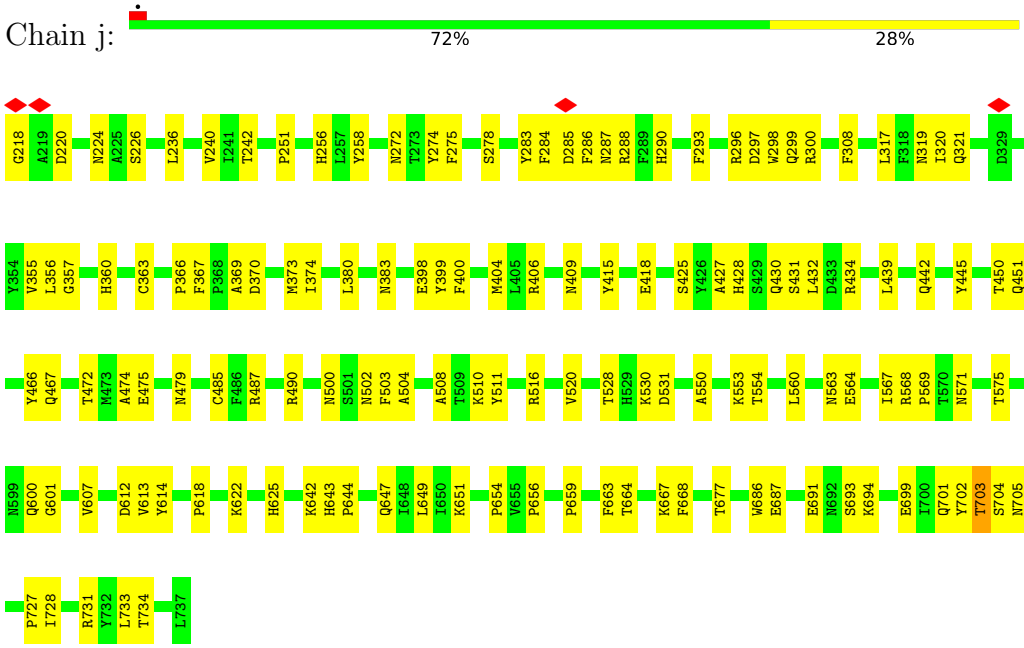
• Molecule 1: Capsid protein

Chain i:



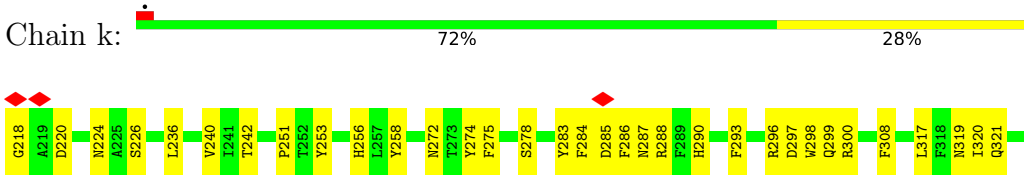
• Molecule 1: Capsid protein

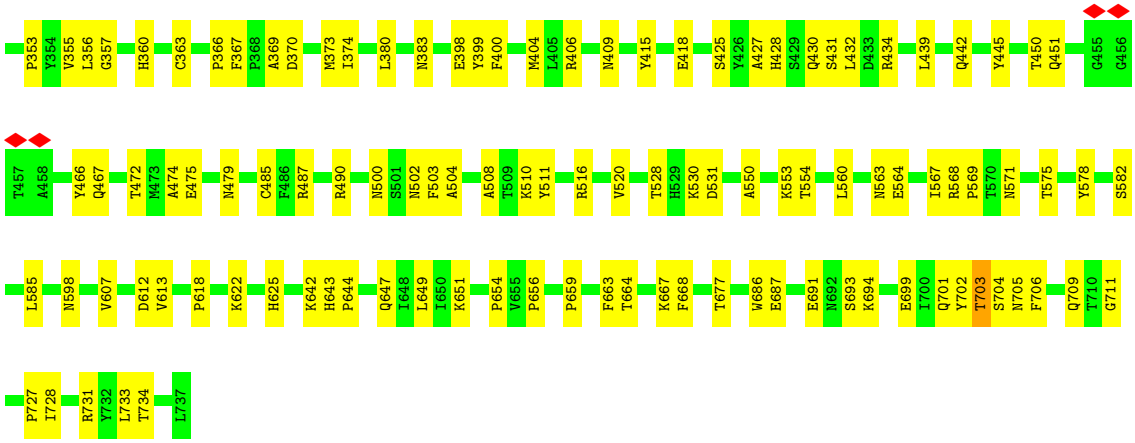
Chain j:



• Molecule 1: Capsid protein

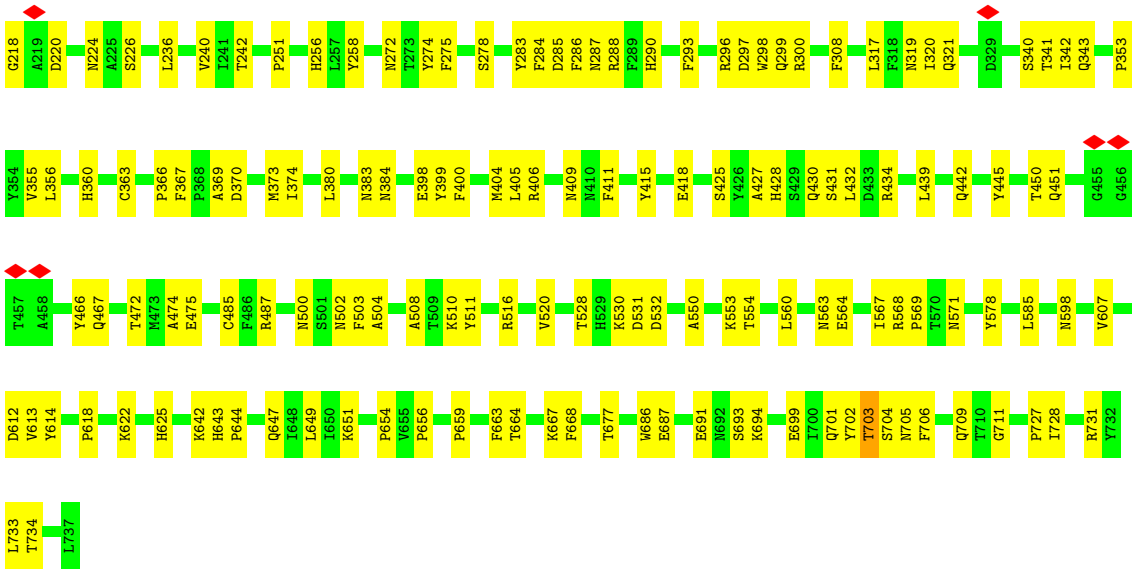
Chain k:





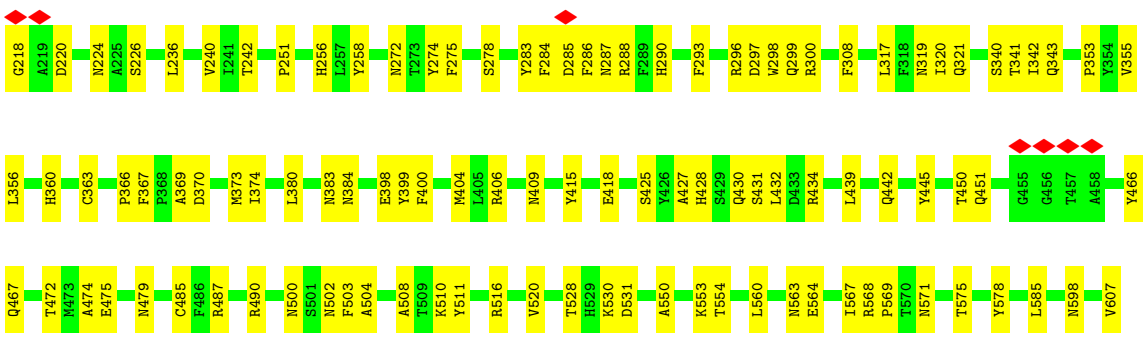
• Molecule 1: Capsid protein

Chain l:



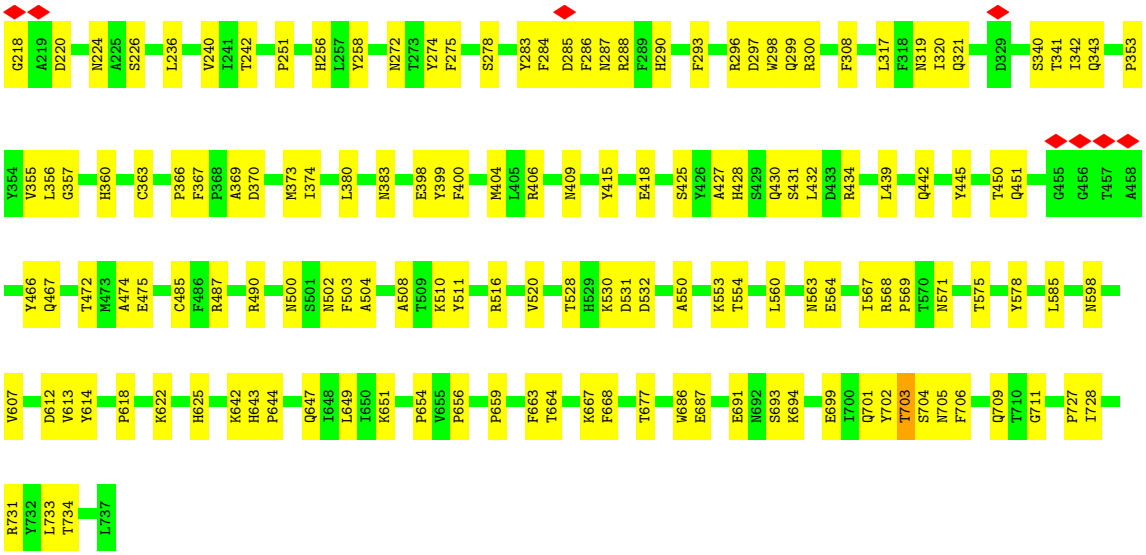
• Molecule 1: Capsid protein

Chain m:



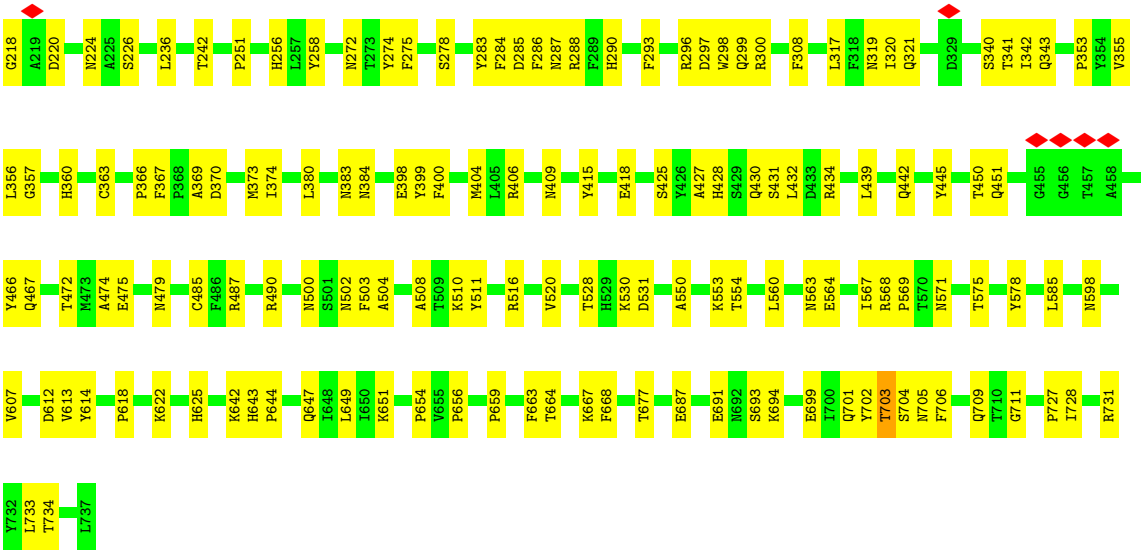
• Molecule 1: Capsid protein

Chain n:



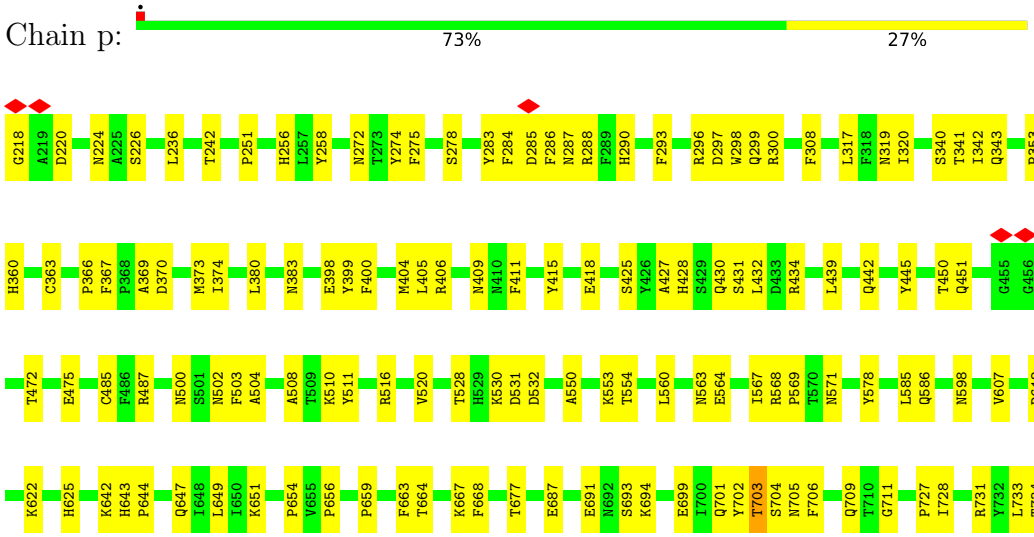
• Molecule 1: Capsid protein

Chain o:



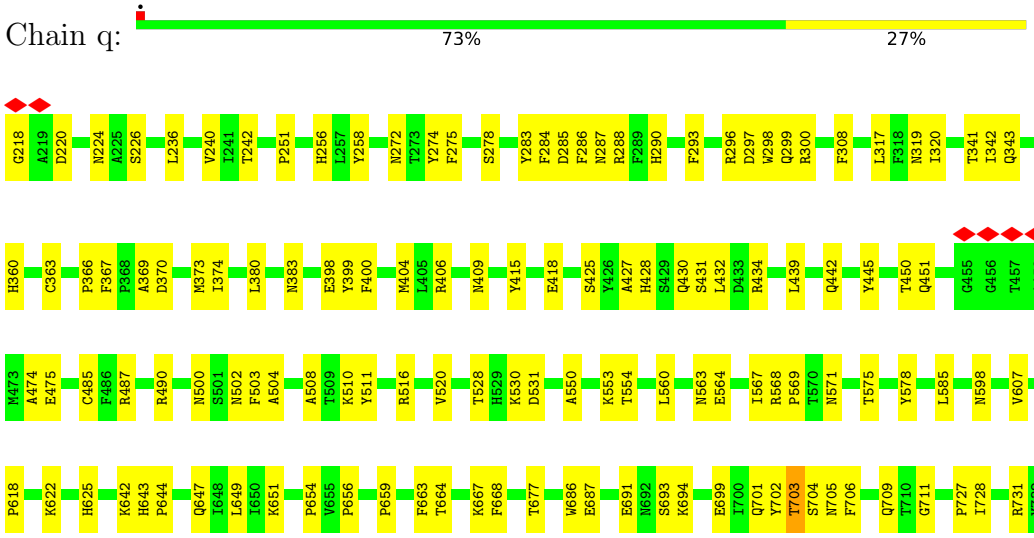
• Molecule 1: Capsid protein

Chain p:



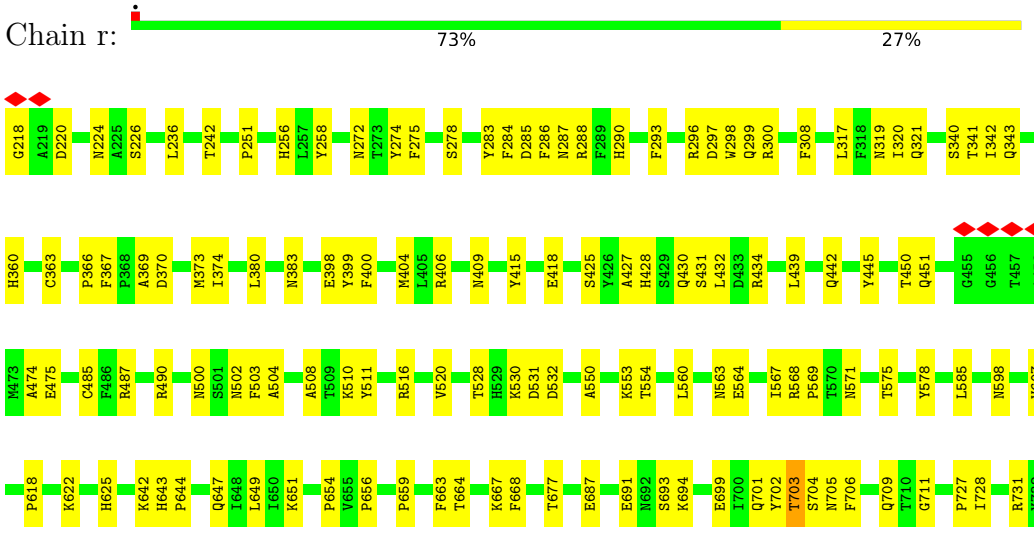
• Molecule 1: Capsid protein

Chain q:



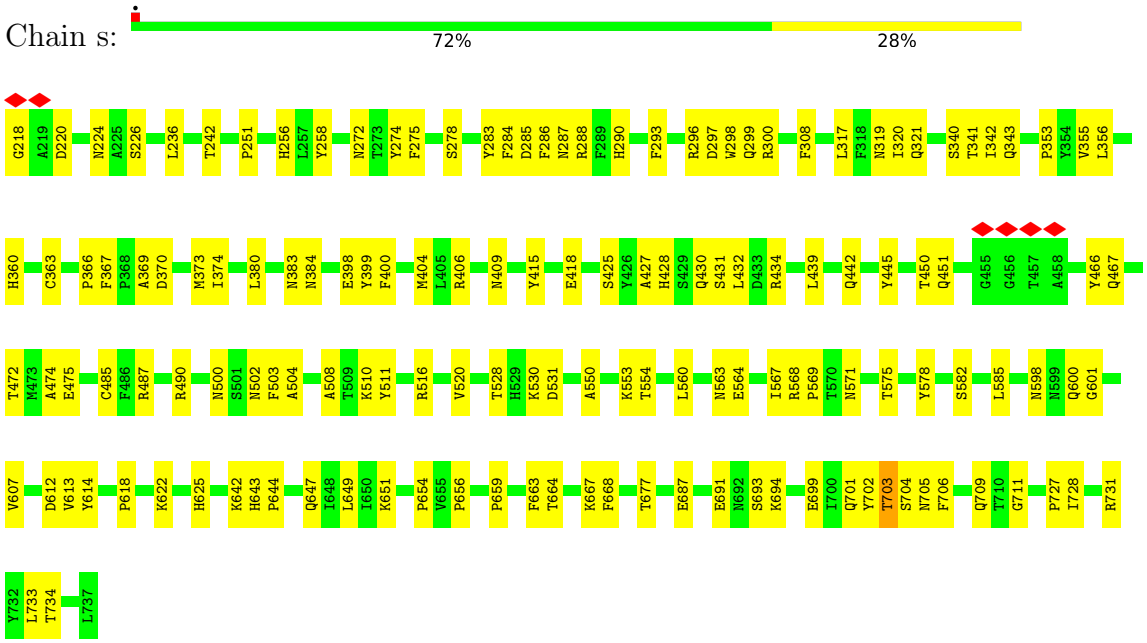
• Molecule 1: Capsid protein

Chain r:



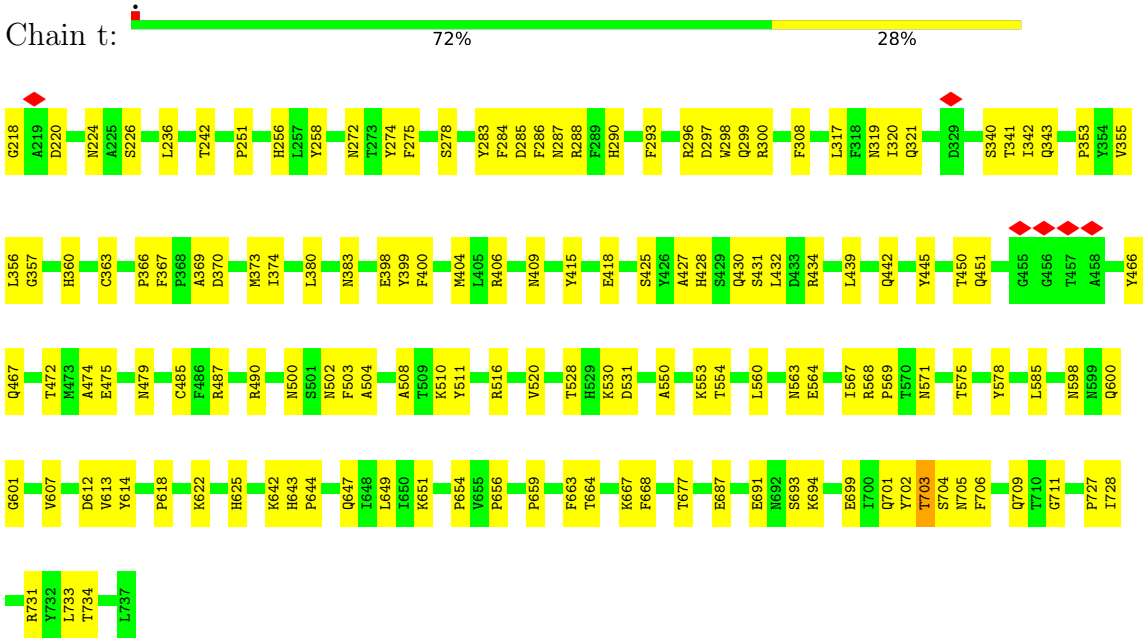
• Molecule 1: Capsid protein

Chain s:



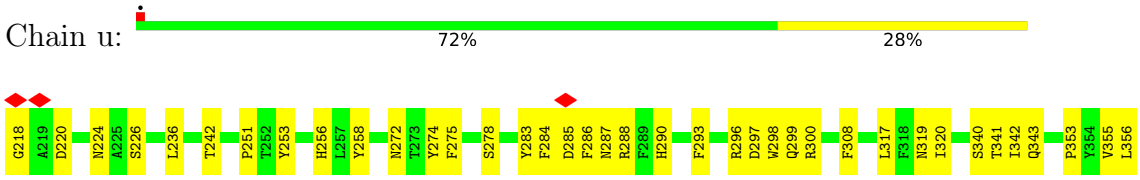
• Molecule 1: Capsid protein

Chain t:



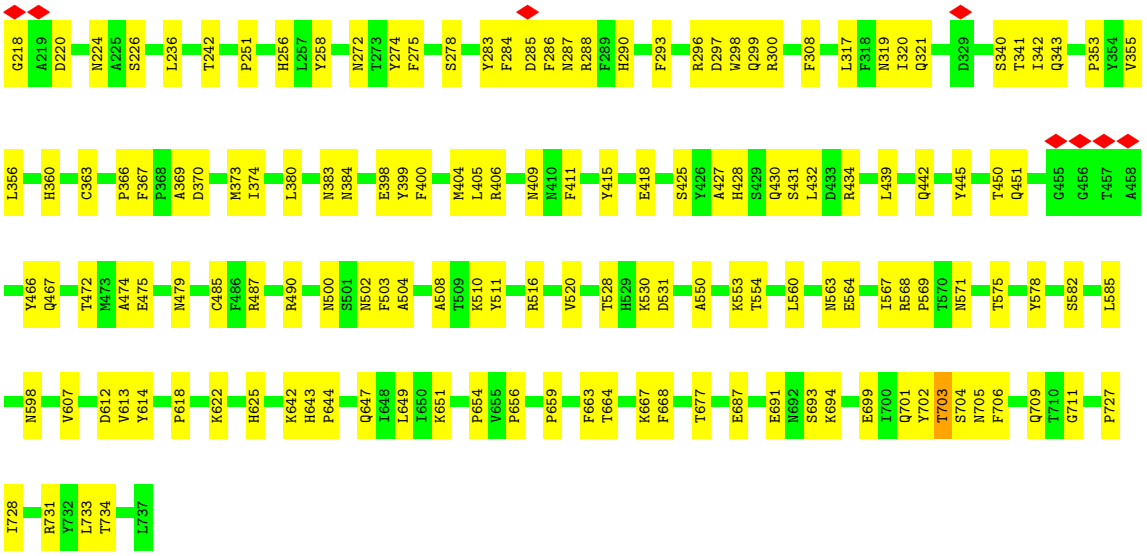
• Molecule 1: Capsid protein

Chain u:



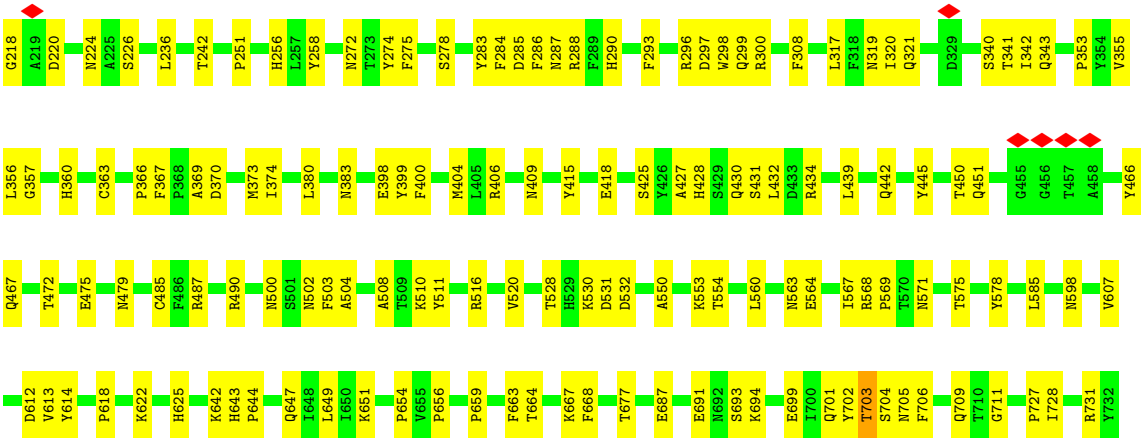
• Molecule 1: Capsid protein

Chain v:



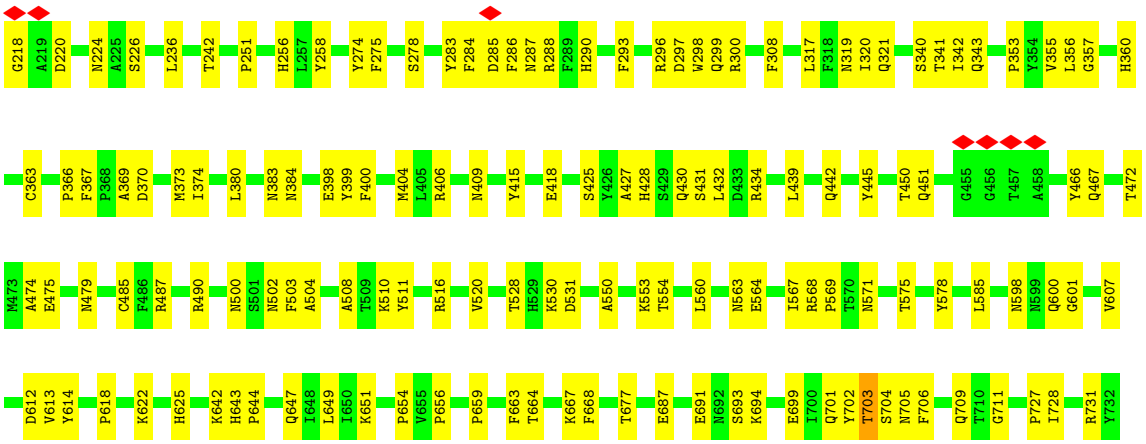
• Molecule 1: Capsid protein

Chain w:



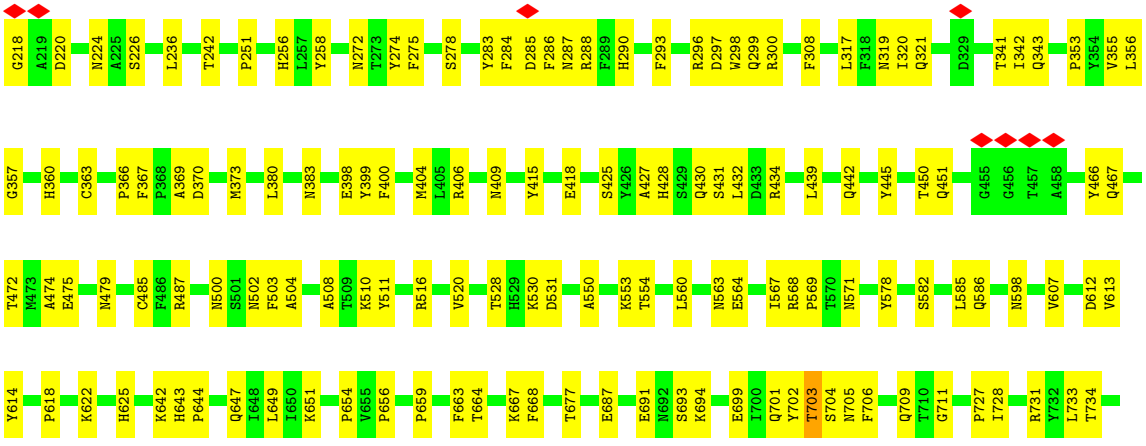
• Molecule 1: Capsid protein

Chain x:



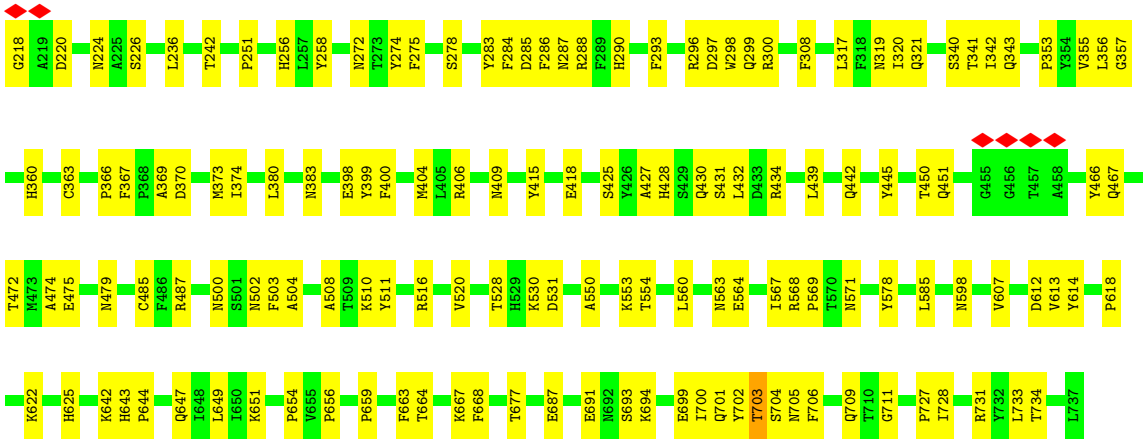
• Molecule 1: Capsid protein

Chain y:



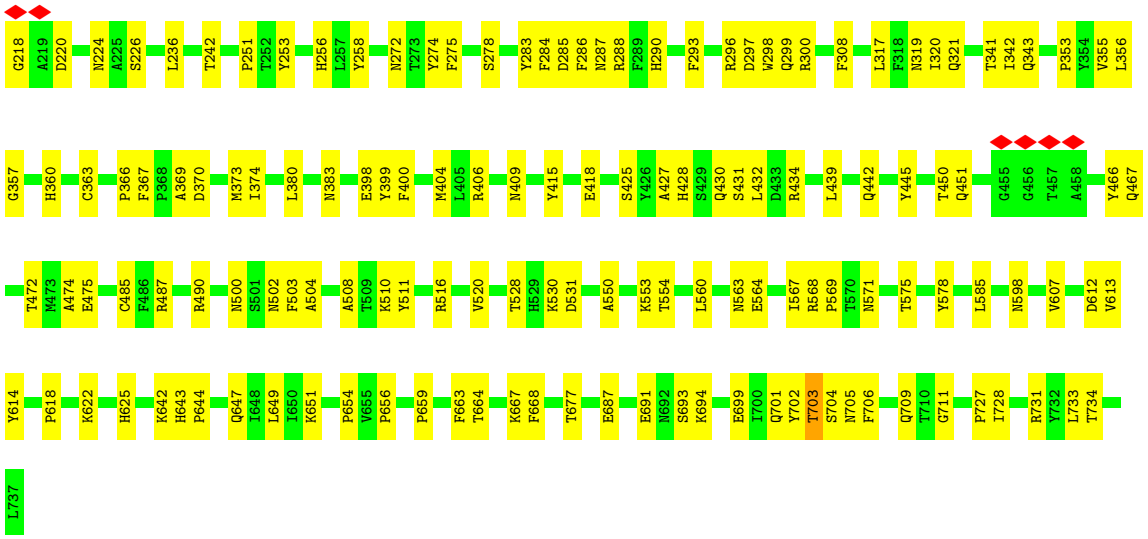
• Molecule 1: Capsid protein

Chain z:



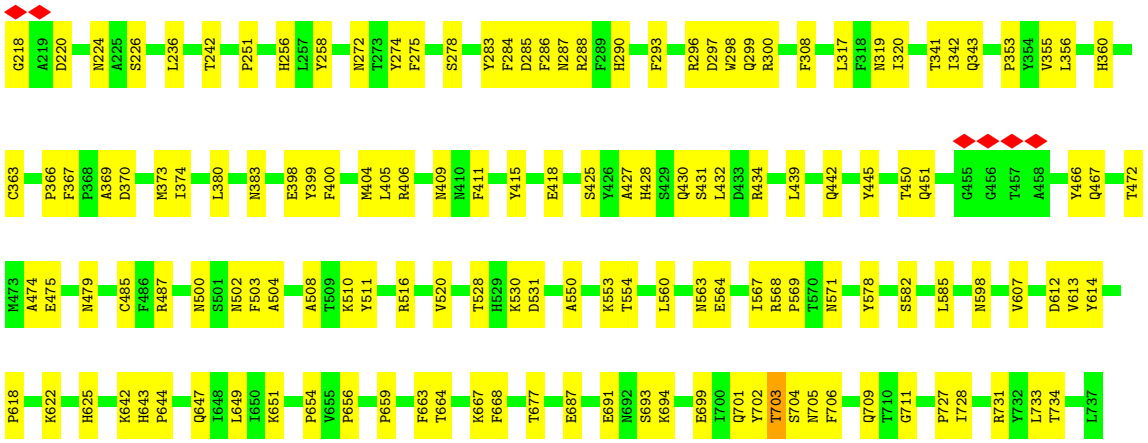
• Molecule 1: Capsid protein

Chain 1:



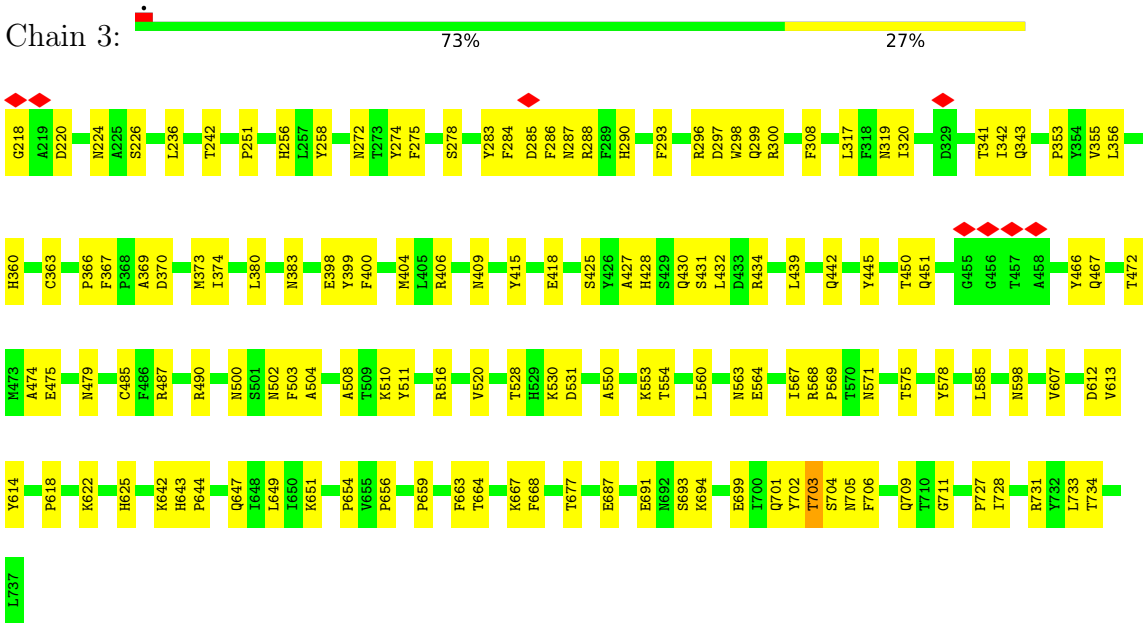
• Molecule 1: Capsid protein

Chain 2:



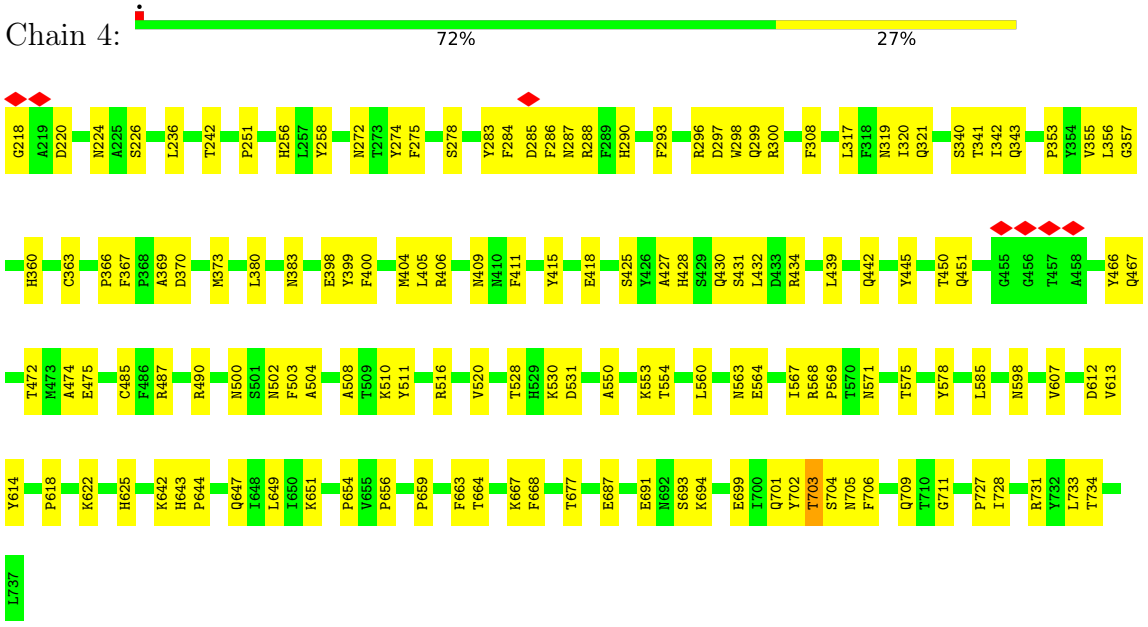
• Molecule 1: Capsid protein

Chain 3:



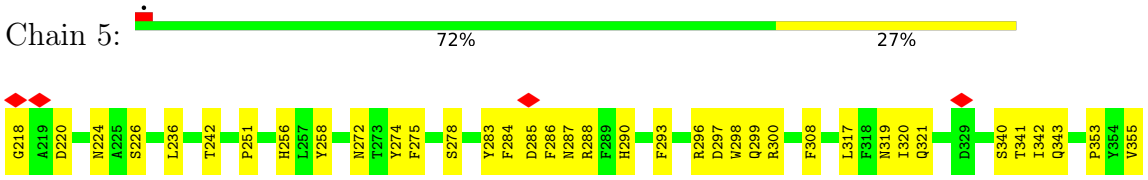
• Molecule 1: Capsid protein

Chain 4:



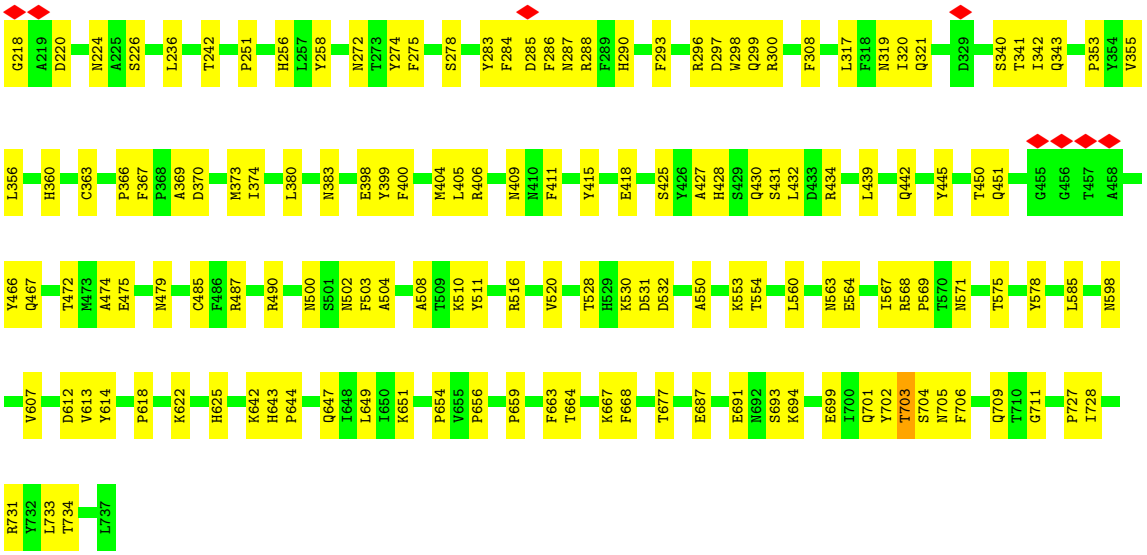
• Molecule 1: Capsid protein

Chain 5:



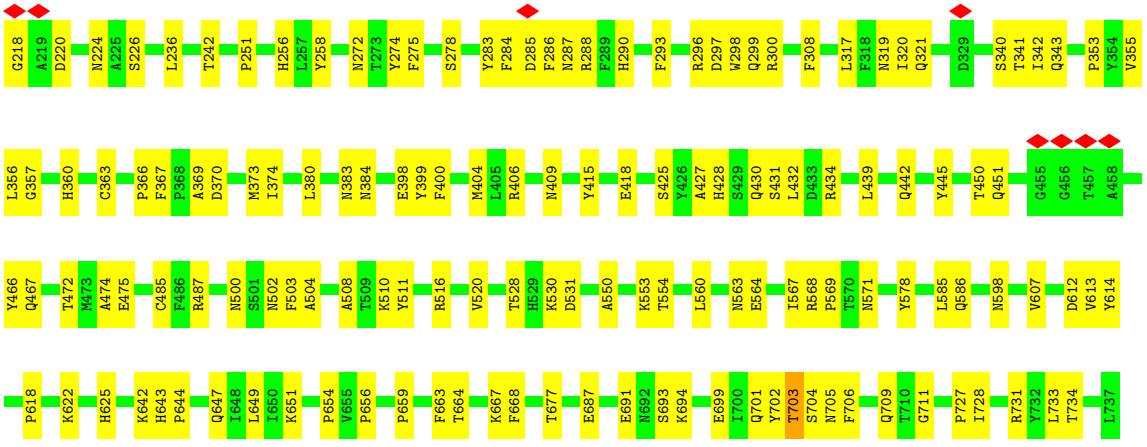
• Molecule 1: Capsid protein

Chain 6:



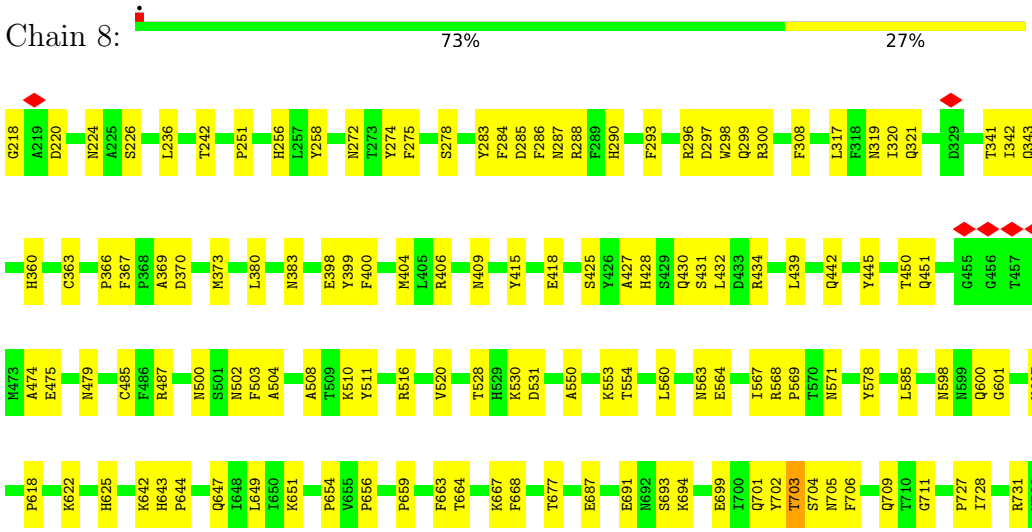
• Molecule 1: Capsid protein

Chain 7:



• Molecule 1: Capsid protein

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	40988	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	16.038	Depositor
Minimum map value	-10.044	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	453.18, 453.18, 453.18	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.079, 1.079, 1.079	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	1	0.44	0/4270	0.54	2/5825 (0.0%)
1	2	0.44	0/4270	0.54	2/5825 (0.0%)
1	3	0.44	0/4270	0.54	2/5825 (0.0%)
1	4	0.44	0/4270	0.54	2/5825 (0.0%)
1	5	0.44	0/4270	0.54	2/5825 (0.0%)
1	6	0.44	0/4270	0.54	2/5825 (0.0%)
1	7	0.44	0/4270	0.54	2/5825 (0.0%)
1	8	0.44	0/4270	0.54	2/5825 (0.0%)
1	A	0.44	0/4270	0.54	2/5825 (0.0%)
1	B	0.44	0/4270	0.54	2/5825 (0.0%)
1	C	0.44	0/4270	0.54	2/5825 (0.0%)
1	D	0.44	0/4270	0.54	2/5825 (0.0%)
1	E	0.44	0/4270	0.54	2/5825 (0.0%)
1	F	0.44	0/4270	0.54	2/5825 (0.0%)
1	G	0.44	0/4270	0.54	2/5825 (0.0%)
1	H	0.44	0/4270	0.54	2/5825 (0.0%)
1	I	0.44	0/4270	0.54	2/5825 (0.0%)
1	J	0.44	0/4270	0.54	2/5825 (0.0%)
1	K	0.44	0/4270	0.54	2/5825 (0.0%)
1	L	0.44	0/4270	0.54	2/5825 (0.0%)
1	M	0.44	0/4270	0.54	2/5825 (0.0%)
1	N	0.44	0/4270	0.54	2/5825 (0.0%)
1	O	0.44	0/4270	0.54	2/5825 (0.0%)
1	P	0.44	0/4270	0.54	2/5825 (0.0%)
1	Q	0.44	0/4270	0.54	2/5825 (0.0%)
1	R	0.44	0/4270	0.54	2/5825 (0.0%)
1	S	0.44	0/4270	0.54	2/5825 (0.0%)
1	T	0.44	0/4270	0.54	2/5825 (0.0%)
1	U	0.44	0/4270	0.54	2/5825 (0.0%)
1	V	0.44	0/4270	0.54	2/5825 (0.0%)
1	W	0.44	0/4270	0.54	2/5825 (0.0%)
1	X	0.44	0/4270	0.54	2/5825 (0.0%)
1	Y	0.44	0/4270	0.54	2/5825 (0.0%)
1	Z	0.44	0/4270	0.54	2/5825 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.44	0/4270	0.54	2/5825 (0.0%)
1	b	0.44	0/4270	0.54	2/5825 (0.0%)
1	c	0.44	0/4270	0.54	2/5825 (0.0%)
1	d	0.44	0/4270	0.54	2/5825 (0.0%)
1	e	0.44	0/4270	0.54	2/5825 (0.0%)
1	f	0.44	0/4270	0.54	2/5825 (0.0%)
1	g	0.44	0/4270	0.54	2/5825 (0.0%)
1	h	0.44	0/4270	0.54	2/5825 (0.0%)
1	i	0.44	0/4270	0.54	2/5825 (0.0%)
1	j	0.44	0/4270	0.54	2/5825 (0.0%)
1	k	0.44	0/4270	0.54	2/5825 (0.0%)
1	l	0.44	0/4270	0.54	2/5825 (0.0%)
1	m	0.44	0/4270	0.54	2/5825 (0.0%)
1	n	0.44	0/4270	0.54	2/5825 (0.0%)
1	o	0.44	0/4270	0.54	2/5825 (0.0%)
1	p	0.44	0/4270	0.54	2/5825 (0.0%)
1	q	0.44	0/4270	0.54	2/5825 (0.0%)
1	r	0.44	0/4270	0.54	2/5825 (0.0%)
1	s	0.44	0/4270	0.54	2/5825 (0.0%)
1	t	0.44	0/4270	0.54	2/5825 (0.0%)
1	u	0.44	0/4270	0.54	2/5825 (0.0%)
1	v	0.44	0/4270	0.54	2/5825 (0.0%)
1	w	0.44	0/4270	0.54	2/5825 (0.0%)
1	x	0.44	0/4270	0.54	2/5825 (0.0%)
1	y	0.44	0/4270	0.54	2/5825 (0.0%)
1	z	0.44	0/4270	0.54	2/5825 (0.0%)
All	All	0.44	0/256200	0.54	120/349500 (0.0%)

There are no bond length outliers.

All (120) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	705	ASN	N-CA-C	6.12	117.95	111.28
1	Z	705	ASN	N-CA-C	6.12	117.95	111.28
1	h	705	ASN	N-CA-C	6.12	117.95	111.28
1	8	705	ASN	N-CA-C	6.12	117.95	111.28
1	T	705	ASN	N-CA-C	6.11	117.94	111.28
1	L	705	ASN	N-CA-C	6.11	117.94	111.28
1	q	705	ASN	N-CA-C	6.11	117.94	111.28
1	s	705	ASN	N-CA-C	6.11	117.94	111.28
1	x	705	ASN	N-CA-C	6.11	117.94	111.28
1	G	705	ASN	N-CA-C	6.09	117.92	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	705	ASN	N-CA-C	6.09	117.92	111.28
1	H	705	ASN	N-CA-C	6.09	117.92	111.28
1	W	705	ASN	N-CA-C	6.09	117.92	111.28
1	j	705	ASN	N-CA-C	6.09	117.92	111.28
1	V	705	ASN	N-CA-C	6.08	117.91	111.28
1	P	705	ASN	N-CA-C	6.08	117.90	111.28
1	o	705	ASN	N-CA-C	6.08	117.90	111.28
1	C	705	ASN	N-CA-C	6.08	117.90	111.28
1	U	705	ASN	N-CA-C	6.08	117.90	111.28
1	p	705	ASN	N-CA-C	6.08	117.90	111.28
1	I	705	ASN	N-CA-C	6.07	117.90	111.28
1	y	705	ASN	N-CA-C	6.07	117.90	111.28
1	Y	705	ASN	N-CA-C	6.07	117.90	111.28
1	r	705	ASN	N-CA-C	6.07	117.90	111.28
1	z	705	ASN	N-CA-C	6.07	117.90	111.28
1	2	705	ASN	N-CA-C	6.07	117.90	111.28
1	7	705	ASN	N-CA-C	6.07	117.90	111.28
1	M	705	ASN	N-CA-C	6.07	117.89	111.28
1	A	705	ASN	N-CA-C	6.07	117.89	111.28
1	F	705	ASN	N-CA-C	6.07	117.89	111.28
1	a	705	ASN	N-CA-C	6.07	117.89	111.28
1	c	705	ASN	N-CA-C	6.07	117.89	111.28
1	d	705	ASN	N-CA-C	6.07	117.89	111.28
1	f	705	ASN	N-CA-C	6.07	117.89	111.28
1	3	705	ASN	N-CA-C	6.07	117.89	111.28
1	k	705	ASN	N-CA-C	6.06	117.89	111.28
1	5	705	ASN	N-CA-C	6.06	117.89	111.28
1	6	705	ASN	N-CA-C	6.06	117.89	111.28
1	l	705	ASN	N-CA-C	6.06	117.89	111.28
1	w	705	ASN	N-CA-C	6.06	117.89	111.28
1	D	705	ASN	N-CA-C	6.05	117.88	111.28
1	B	705	ASN	N-CA-C	6.05	117.88	111.28
1	J	705	ASN	N-CA-C	6.05	117.88	111.28
1	R	705	ASN	N-CA-C	6.05	117.88	111.28
1	1	705	ASN	N-CA-C	6.05	117.88	111.28
1	X	705	ASN	N-CA-C	6.05	117.88	111.28
1	t	705	ASN	N-CA-C	6.05	117.88	111.28
1	K	705	ASN	N-CA-C	6.05	117.87	111.28
1	g	705	ASN	N-CA-C	6.05	117.87	111.28
1	m	705	ASN	N-CA-C	6.05	117.87	111.28
1	4	705	ASN	N-CA-C	6.05	117.87	111.28
1	S	705	ASN	N-CA-C	6.04	117.86	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	705	ASN	N-CA-C	6.04	117.86	111.28
1	E	705	ASN	N-CA-C	6.04	117.86	111.28
1	v	705	ASN	N-CA-C	6.04	117.86	111.28
1	N	705	ASN	N-CA-C	6.03	117.86	111.28
1	b	705	ASN	N-CA-C	6.03	117.86	111.28
1	e	705	ASN	N-CA-C	6.03	117.86	111.28
1	u	705	ASN	N-CA-C	6.03	117.86	111.28
1	n	705	ASN	N-CA-C	6.03	117.86	111.28
1	T	258	TYR	N-CA-C	-5.19	100.78	109.24
1	N	258	TYR	N-CA-C	-5.19	100.78	109.24
1	v	258	TYR	N-CA-C	-5.18	100.79	109.24
1	p	258	TYR	N-CA-C	-5.18	100.80	109.24
1	O	258	TYR	N-CA-C	-5.18	100.80	109.24
1	X	258	TYR	N-CA-C	-5.18	100.80	109.24
1	Z	258	TYR	N-CA-C	-5.18	100.80	109.24
1	h	258	TYR	N-CA-C	-5.18	100.80	109.24
1	q	258	TYR	N-CA-C	-5.18	100.80	109.24
1	t	258	TYR	N-CA-C	-5.18	100.80	109.24
1	8	258	TYR	N-CA-C	-5.18	100.80	109.24
1	J	258	TYR	N-CA-C	-5.17	100.81	109.24
1	K	258	TYR	N-CA-C	-5.17	100.81	109.24
1	V	258	TYR	N-CA-C	-5.17	100.81	109.24
1	4	258	TYR	N-CA-C	-5.17	100.81	109.24
1	H	258	TYR	N-CA-C	-5.17	100.81	109.24
1	j	258	TYR	N-CA-C	-5.17	100.81	109.24
1	P	258	TYR	N-CA-C	-5.17	100.82	109.24
1	W	258	TYR	N-CA-C	-5.17	100.82	109.24
1	Y	258	TYR	N-CA-C	-5.17	100.82	109.24
1	k	258	TYR	N-CA-C	-5.17	100.82	109.24
1	m	258	TYR	N-CA-C	-5.17	100.82	109.24
1	6	258	TYR	N-CA-C	-5.17	100.82	109.24
1	7	258	TYR	N-CA-C	-5.17	100.82	109.24
1	L	258	TYR	N-CA-C	-5.17	100.82	109.24
1	s	258	TYR	N-CA-C	-5.17	100.82	109.24
1	A	258	TYR	N-CA-C	-5.16	100.82	109.24
1	a	258	TYR	N-CA-C	-5.16	100.82	109.24
1	d	258	TYR	N-CA-C	-5.16	100.82	109.24
1	e	258	TYR	N-CA-C	-5.16	100.82	109.24
1	f	258	TYR	N-CA-C	-5.16	100.82	109.24
1	i	258	TYR	N-CA-C	-5.16	100.82	109.24
1	n	258	TYR	N-CA-C	-5.16	100.82	109.24
1	y	258	TYR	N-CA-C	-5.16	100.82	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	258	TYR	N-CA-C	-5.16	100.82	109.24
1	5	258	TYR	N-CA-C	-5.16	100.82	109.24
1	R	258	TYR	N-CA-C	-5.16	100.83	109.24
1	1	258	TYR	N-CA-C	-5.16	100.83	109.24
1	G	258	TYR	N-CA-C	-5.16	100.83	109.24
1	I	258	TYR	N-CA-C	-5.16	100.83	109.24
1	M	258	TYR	N-CA-C	-5.16	100.83	109.24
1	g	258	TYR	N-CA-C	-5.16	100.83	109.24
1	l	258	TYR	N-CA-C	-5.16	100.83	109.24
1	o	258	TYR	N-CA-C	-5.16	100.83	109.24
1	w	258	TYR	N-CA-C	-5.16	100.83	109.24
1	E	258	TYR	N-CA-C	-5.16	100.83	109.24
1	u	258	TYR	N-CA-C	-5.16	100.83	109.24
1	x	258	TYR	N-CA-C	-5.16	100.83	109.24
1	z	258	TYR	N-CA-C	-5.16	100.83	109.24
1	b	258	TYR	N-CA-C	-5.15	100.84	109.24
1	c	258	TYR	N-CA-C	-5.15	100.84	109.24
1	B	258	TYR	N-CA-C	-5.15	100.84	109.24
1	S	258	TYR	N-CA-C	-5.15	100.84	109.24
1	r	258	TYR	N-CA-C	-5.15	100.84	109.24
1	2	258	TYR	N-CA-C	-5.15	100.84	109.24
1	U	258	TYR	N-CA-C	-5.15	100.84	109.24
1	D	258	TYR	N-CA-C	-5.15	100.85	109.24
1	Q	258	TYR	N-CA-C	-5.15	100.85	109.24
1	C	258	TYR	N-CA-C	-5.14	100.87	109.24
1	F	258	TYR	N-CA-C	-5.13	100.88	109.24

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4144	0	3911	125	0
1	2	4144	0	3911	122	0
1	3	4144	0	3911	117	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	4	4144	0	3911	122	0
1	5	4144	0	3911	121	0
1	6	4144	0	3911	126	0
1	7	4144	0	3911	122	0
1	8	4144	0	3911	121	0
1	A	4144	0	3911	123	0
1	B	4144	0	3911	125	0
1	C	4144	0	3911	123	0
1	D	4144	0	3911	123	0
1	E	4144	0	3911	127	0
1	F	4144	0	3911	123	0
1	G	4144	0	3911	122	0
1	H	4144	0	3911	120	0
1	I	4144	0	3911	125	0
1	J	4144	0	3911	121	0
1	K	4144	0	3911	123	0
1	L	4144	0	3911	121	0
1	M	4144	0	3911	124	0
1	N	4144	0	3911	127	0
1	O	4144	0	3911	125	0
1	P	4144	0	3911	124	0
1	Q	4144	0	3911	127	0
1	R	4144	0	3911	123	0
1	S	4144	0	3911	119	0
1	T	4144	0	3911	123	0
1	U	4144	0	3911	124	0
1	V	4144	0	3911	122	0
1	W	4144	0	3911	123	0
1	X	4144	0	3911	124	0
1	Y	4144	0	3911	121	0
1	Z	4144	0	3911	123	0
1	a	4144	0	3911	116	0
1	b	4144	0	3911	125	0
1	c	4144	0	3911	123	0
1	d	4144	0	3911	126	0
1	e	4144	0	3911	124	0
1	f	4144	0	3911	124	0
1	g	4144	0	3911	125	0
1	h	4144	0	3911	122	0
1	i	4144	0	3911	127	0
1	j	4144	0	3911	127	0
1	k	4144	0	3911	123	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	l	4144	0	3911	124	0
1	m	4144	0	3911	122	0
1	n	4144	0	3911	124	0
1	o	4144	0	3911	125	0
1	p	4144	0	3911	123	0
1	q	4144	0	3911	121	0
1	r	4144	0	3911	119	0
1	s	4144	0	3911	123	0
1	t	4144	0	3911	126	0
1	u	4144	0	3911	126	0
1	v	4144	0	3911	128	0
1	w	4144	0	3911	125	0
1	x	4144	0	3911	125	0
1	y	4144	0	3911	121	0
1	z	4144	0	3911	123	0
All	All	248640	0	234660	5631	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 12.

All (5631) 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:J:701:GLN:H	1:K:703:THR:HG23	1.12	1.14
1:J:703:THR:HG23	1:K:701:GLN:H	1.12	1.14
1:2:701:GLN:H	1:4:703:THR:HG23	1.12	1.14
1:2:703:THR:HG23	1:4:701:GLN:H	1.12	1.14
1:A:701:GLN:H	1:F:703:THR:HG23	1.11	1.13
1:g:701:GLN:H	1:z:703:THR:HG23	1.11	1.13
1:G:701:GLN:H	1:H:703:THR:HG23	1.12	1.12
1:C:701:GLN:H	1:L:703:THR:HG23	1.12	1.12
1:d:703:THR:HG23	1:n:701:GLN:H	1.12	1.12
1:t:701:GLN:H	1:5:703:THR:HG23	1.12	1.12
1:e:701:GLN:H	1:f:703:THR:HG23	1.12	1.12
1:v:701:GLN:H	1:y:703:THR:HG23	1.12	1.12
1:d:701:GLN:H	1:n:703:THR:HG23	1.12	1.11
1:Q:701:GLN:H	1:R:703:THR:HG23	1.12	1.11
1:q:703:THR:HG23	1:x:701:GLN:H	1.12	1.11
1:Q:703:THR:HG23	1:R:701:GLN:H	1.12	1.11
1:b:703:THR:HG23	1:c:701:GLN:H	1.12	1.11
1:m:703:THR:HG23	1:r:701:GLN:H	1.12	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:701:GLN:H	1:x:703:THR:HG23	1.12	1.11
1:U:703:THR:CG2	1:V:701:GLN:H	1.64	1.11
1:A:701:GLN:H	1:F:703:THR:CG2	1.62	1.10
1:p:701:GLN:H	1:s:703:THR:CG2	1.65	1.10
1:7:701:GLN:H	1:8:703:THR:HG23	1.12	1.10
1:U:701:GLN:H	1:V:703:THR:HG23	1.12	1.10
1:Y:703:THR:HG23	1:Z:701:GLN:H	1.12	1.10
1:d:703:THR:CG2	1:n:701:GLN:H	1.65	1.10
1:e:701:GLN:H	1:f:703:THR:CG2	1.65	1.10
1:p:703:THR:HG23	1:s:701:GLN:H	1.12	1.10
1:u:701:GLN:H	1:1:703:THR:CG2	1.64	1.10
1:G:703:THR:CG2	1:H:701:GLN:H	1.64	1.10
1:b:703:THR:CG2	1:c:701:GLN:H	1.65	1.10
1:d:701:GLN:H	1:n:703:THR:CG2	1.65	1.10
1:t:703:THR:CG2	1:5:701:GLN:H	1.65	1.10
1:B:703:THR:CG2	1:I:701:GLN:H	1.64	1.10
1:E:703:THR:CG2	1:P:701:GLN:H	1.64	1.10
1:G:701:GLN:H	1:H:703:THR:CG2	1.65	1.10
1:Y:701:GLN:H	1:Z:703:THR:HG23	1.12	1.10
1:j:701:GLN:H	1:w:703:THR:HG23	1.12	1.10
1:t:701:GLN:H	1:5:703:THR:CG2	1.65	1.10
1:7:703:THR:HG23	1:8:701:GLN:H	1.12	1.10
1:U:701:GLN:H	1:V:703:THR:CG2	1.65	1.10
1:Y:703:THR:CG2	1:Z:701:GLN:H	1.65	1.10
1:j:701:GLN:H	1:w:703:THR:CG2	1.65	1.10
1:j:703:THR:HG23	1:w:701:GLN:H	1.12	1.10
1:p:703:THR:CG2	1:s:701:GLN:H	1.65	1.10
1:7:703:THR:CG2	1:8:701:GLN:H	1.65	1.10
1:E:703:THR:HG23	1:P:701:GLN:H	1.12	1.09
1:J:701:GLN:H	1:K:703:THR:CG2	1.64	1.09
1:j:703:THR:CG2	1:w:701:GLN:H	1.65	1.09
1:m:701:GLN:H	1:r:703:THR:CG2	1.65	1.09
1:E:701:GLN:H	1:P:703:THR:CG2	1.65	1.09
1:S:701:GLN:H	1:T:703:THR:HG23	1.12	1.09
1:S:703:THR:CG2	1:T:701:GLN:H	1.66	1.09
1:g:701:GLN:H	1:z:703:THR:CG2	1.64	1.09
1:h:701:GLN:H	1:k:703:THR:CG2	1.65	1.09
1:2:701:GLN:H	1:4:703:THR:CG2	1.64	1.09
1:D:703:THR:CG2	1:M:701:GLN:H	1.65	1.09
1:E:701:GLN:H	1:P:703:THR:HG23	1.12	1.09
1:N:701:GLN:H	1:O:703:THR:CG2	1.65	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:701:GLN:H	1:R:703:THR:CG2	1.64	1.09
1:Y:701:GLN:H	1:Z:703:THR:CG2	1.65	1.09
1:i:701:GLN:H	1:l:703:THR:CG2	1.65	1.09
1:m:701:GLN:H	1:r:703:THR:HG23	1.12	1.09
1:o:703:THR:CG2	1:6:701:GLN:H	1.65	1.09
1:S:701:GLN:H	1:T:703:THR:CG2	1.64	1.09
1:S:703:THR:HG23	1:T:701:GLN:H	1.13	1.09
1:W:701:GLN:H	1:X:703:THR:CG2	1.65	1.09
1:q:703:THR:CG2	1:x:701:GLN:H	1.65	1.09
1:v:703:THR:HG23	1:y:701:GLN:H	1.12	1.09
1:7:701:GLN:H	1:8:703:THR:CG2	1.65	1.09
1:A:703:THR:HG23	1:F:701:GLN:H	1.13	1.09
1:D:703:THR:HG23	1:M:701:GLN:H	1.12	1.09
1:J:703:THR:CG2	1:K:701:GLN:H	1.65	1.09
1:a:701:GLN:H	1:3:703:THR:HG23	1.12	1.09
1:2:703:THR:CG2	1:4:701:GLN:H	1.65	1.09
1:C:701:GLN:H	1:L:703:THR:CG2	1.65	1.08
1:m:703:THR:CG2	1:r:701:GLN:H	1.64	1.08
1:D:701:GLN:H	1:M:703:THR:CG2	1.65	1.08
1:U:703:THR:HG23	1:V:701:GLN:H	1.12	1.08
1:a:703:THR:HG23	1:3:701:GLN:H	1.12	1.08
1:h:703:THR:CG2	1:k:701:GLN:H	1.65	1.08
1:e:703:THR:CG2	1:f:701:GLN:H	1.65	1.08
1:g:703:THR:CG2	1:z:701:GLN:H	1.65	1.08
1:h:701:GLN:H	1:k:703:THR:HG23	1.12	1.08
1:q:701:GLN:H	1:x:703:THR:CG2	1.65	1.08
1:v:701:GLN:H	1:y:703:THR:CG2	1.65	1.08
1:C:703:THR:HG23	1:L:701:GLN:H	1.12	1.08
1:Q:703:THR:CG2	1:R:701:GLN:H	1.65	1.08
1:e:703:THR:HG23	1:f:701:GLN:H	1.12	1.08
1:C:703:THR:CG2	1:L:701:GLN:H	1.65	1.08
1:N:703:THR:CG2	1:O:701:GLN:H	1.65	1.08
1:b:701:GLN:H	1:c:703:THR:CG2	1.65	1.08
1:b:701:GLN:H	1:c:703:THR:HG23	1.12	1.08
1:i:703:THR:CG2	1:l:701:GLN:H	1.65	1.08
1:G:703:THR:HG23	1:H:701:GLN:H	1.12	1.07
1:o:701:GLN:H	1:6:703:THR:HG23	1.12	1.07
1:B:701:GLN:H	1:I:703:THR:HG23	1.13	1.07
1:W:703:THR:CG2	1:X:701:GLN:H	1.65	1.07
1:a:703:THR:CG2	1:3:701:GLN:H	1.65	1.07
1:o:701:GLN:H	1:6:703:THR:CG2	1.65	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:703:THR:HG23	1:6:701:GLN:H	1.12	1.07
1:p:701:GLN:H	1:s:703:THR:HG23	1.12	1.07
1:v:703:THR:CG2	1:y:701:GLN:H	1.65	1.07
1:a:701:GLN:H	1:3:703:THR:CG2	1.65	1.07
1:h:703:THR:HG23	1:k:701:GLN:H	1.12	1.07
1:t:703:THR:HG23	1:5:701:GLN:H	1.12	1.07
1:u:703:THR:HG23	1:1:701:GLN:H	1.12	1.07
1:D:701:GLN:H	1:M:703:THR:HG23	1.12	1.07
1:N:703:THR:HG23	1:O:701:GLN:H	1.12	1.07
1:W:703:THR:HG23	1:X:701:GLN:H	1.12	1.07
1:u:703:THR:CG2	1:1:701:GLN:H	1.66	1.07
1:W:701:GLN:H	1:X:703:THR:HG23	1.12	1.07
1:g:703:THR:HG23	1:z:701:GLN:H	1.11	1.07
1:B:701:GLN:H	1:I:703:THR:CG2	1.66	1.06
1:N:701:GLN:H	1:O:703:THR:HG23	1.12	1.06
1:i:703:THR:HG23	1:l:701:GLN:H	1.12	1.06
1:i:701:GLN:H	1:l:703:THR:HG23	1.12	1.06
1:A:703:THR:CG2	1:F:701:GLN:H	1.67	1.05
1:B:703:THR:HG23	1:I:701:GLN:H	1.12	1.04
1:u:701:GLN:H	1:1:703:THR:HG23	1.12	1.04
1:Q:701:GLN:N	1:R:703:THR:HG23	1.83	0.94
1:q:701:GLN:N	1:x:703:THR:HG23	1.84	0.93
1:A:701:GLN:N	1:F:703:THR:HG23	1.81	0.93
1:D:703:THR:HG23	1:M:701:GLN:N	1.84	0.93
1:q:703:THR:HG23	1:x:701:GLN:N	1.83	0.93
1:E:701:GLN:N	1:P:703:THR:HG23	1.84	0.93
1:d:703:THR:HG23	1:n:701:GLN:N	1.83	0.93
1:g:701:GLN:N	1:z:703:THR:HG23	1.82	0.93
1:h:701:GLN:N	1:k:703:THR:HG23	1.84	0.93
1:j:703:THR:HG23	1:w:701:GLN:N	1.84	0.93
1:o:701:GLN:N	1:6:703:THR:HG23	1.84	0.93
1:J:701:GLN:N	1:K:703:THR:HG23	1.83	0.93
1:S:701:GLN:N	1:T:703:THR:HG23	1.83	0.93
1:U:701:GLN:N	1:V:703:THR:HG23	1.84	0.93
1:d:701:GLN:N	1:n:703:THR:HG23	1.83	0.93
1:p:703:THR:HG23	1:s:701:GLN:N	1.84	0.93
1:v:703:THR:HG23	1:y:701:GLN:N	1.83	0.93
1:2:701:GLN:N	1:4:703:THR:HG23	1.83	0.93
1:Q:703:THR:HG23	1:R:701:GLN:N	1.84	0.93
1:W:703:THR:HG23	1:X:701:GLN:N	1.84	0.93
1:m:703:THR:HG23	1:r:701:GLN:N	1.83	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:701:GLN:N	1:1:703:THR:HG23	1.83	0.93
1:E:703:THR:HG23	1:P:701:GLN:N	1.83	0.93
1:G:703:THR:HG23	1:H:701:GLN:N	1.83	0.93
1:e:701:GLN:N	1:f:703:THR:HG23	1.83	0.93
1:m:701:GLN:N	1:r:703:THR:HG23	1.84	0.92
1:t:703:THR:HG23	1:5:701:GLN:N	1.83	0.92
1:B:703:THR:HG23	1:I:701:GLN:N	1.83	0.92
1:b:703:THR:HG23	1:c:701:GLN:N	1.83	0.92
1:j:701:GLN:N	1:w:703:THR:HG23	1.83	0.92
1:7:701:GLN:N	1:8:703:THR:HG23	1.83	0.92
1:U:703:THR:HG23	1:V:701:GLN:N	1.83	0.92
1:Y:701:GLN:N	1:Z:703:THR:HG23	1.83	0.92
1:o:703:THR:HG23	1:6:701:GLN:N	1.84	0.92
1:C:701:GLN:N	1:L:703:THR:HG23	1.83	0.92
1:N:701:GLN:N	1:O:703:THR:HG23	1.84	0.92
1:W:701:GLN:N	1:X:703:THR:HG23	1.84	0.92
1:b:701:GLN:N	1:c:703:THR:HG23	1.84	0.92
1:S:703:THR:HG23	1:T:701:GLN:N	1.84	0.92
1:e:703:THR:HG23	1:f:701:GLN:N	1.83	0.92
1:h:703:THR:HG23	1:k:701:GLN:N	1.83	0.92
1:i:703:THR:HG23	1:l:701:GLN:N	1.84	0.92
1:p:701:GLN:N	1:s:703:THR:HG23	1.83	0.92
1:a:703:THR:HG23	1:3:701:GLN:N	1.84	0.92
1:i:701:GLN:N	1:l:703:THR:HG23	1.84	0.92
1:N:703:THR:HG23	1:O:701:GLN:N	1.84	0.92
1:u:703:THR:HG23	1:1:701:GLN:N	1.84	0.92
1:a:701:GLN:N	1:3:703:THR:HG23	1.84	0.91
1:v:701:GLN:N	1:y:703:THR:HG23	1.83	0.91
1:B:701:GLN:N	1:I:703:THR:HG23	1.84	0.91
1:D:701:GLN:N	1:M:703:THR:HG23	1.84	0.91
1:7:703:THR:HG23	1:8:701:GLN:N	1.84	0.91
1:A:703:THR:HG23	1:F:701:GLN:N	1.85	0.91
1:2:703:THR:HG23	1:4:701:GLN:N	1.84	0.91
1:J:703:THR:HG23	1:K:701:GLN:N	1.84	0.91
1:Y:703:THR:HG23	1:Z:701:GLN:N	1.84	0.91
1:t:701:GLN:N	1:5:703:THR:HG23	1.84	0.91
1:G:701:GLN:N	1:H:703:THR:HG23	1.84	0.90
1:g:703:THR:HG23	1:z:701:GLN:N	1.83	0.90
1:C:703:THR:HG23	1:L:701:GLN:N	1.84	0.90
1:T:530:LYS:HG2	1:T:531:ASP:H	1.45	0.82
1:m:530:LYS:HG2	1:m:531:ASP:H	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:530:LYS:HG2	1:O:531:ASP:H	1.45	0.82
1:P:530:LYS:HG2	1:P:531:ASP:H	1.45	0.82
1:j:530:LYS:HG2	1:j:531:ASP:H	1.45	0.82
1:l:530:LYS:HG2	1:l:531:ASP:H	1.45	0.82
1:8:530:LYS:HG2	1:8:531:ASP:H	1.45	0.82
1:V:530:LYS:HG2	1:V:531:ASP:H	1.45	0.82
1:p:530:LYS:HG2	1:p:531:ASP:H	1.45	0.82
1:Z:530:LYS:HG2	1:Z:531:ASP:H	1.45	0.82
1:J:530:LYS:HG2	1:J:531:ASP:H	1.45	0.81
1:K:530:LYS:HG2	1:K:531:ASP:H	1.45	0.81
1:S:530:LYS:HG2	1:S:531:ASP:H	1.45	0.81
1:x:530:LYS:HG2	1:x:531:ASP:H	1.45	0.81
1:2:530:LYS:HG2	1:2:531:ASP:H	1.45	0.81
1:H:530:LYS:HG2	1:H:531:ASP:H	1.45	0.81
1:Q:530:LYS:HG2	1:Q:531:ASP:H	1.45	0.81
1:d:530:LYS:HG2	1:d:531:ASP:H	1.45	0.81
1:r:530:LYS:HG2	1:r:531:ASP:H	1.45	0.81
1:w:530:LYS:HG2	1:w:531:ASP:H	1.45	0.81
1:4:530:LYS:HG2	1:4:531:ASP:H	1.45	0.81
1:E:530:LYS:HG2	1:E:531:ASP:H	1.45	0.81
1:n:530:LYS:HG2	1:n:531:ASP:H	1.45	0.81
1:s:530:LYS:HG2	1:s:531:ASP:H	1.45	0.81
1:3:530:LYS:HG2	1:3:531:ASP:H	1.45	0.81
1:U:530:LYS:HG2	1:U:531:ASP:H	1.45	0.81
1:a:530:LYS:HG2	1:a:531:ASP:H	1.45	0.81
1:5:530:LYS:HG2	1:5:531:ASP:H	1.45	0.81
1:G:530:LYS:HG2	1:G:531:ASP:H	1.45	0.81
1:R:530:LYS:HG2	1:R:531:ASP:H	1.45	0.81
1:L:530:LYS:HG2	1:L:531:ASP:H	1.45	0.81
1:t:530:LYS:HG2	1:t:531:ASP:H	1.45	0.81
1:1:530:LYS:HG2	1:1:531:ASP:H	1.45	0.81
1:v:530:LYS:HG2	1:v:531:ASP:H	1.45	0.80
1:q:530:LYS:HG2	1:q:531:ASP:H	1.45	0.80
1:A:530:LYS:HG2	1:A:531:ASP:H	1.45	0.80
1:B:530:LYS:HG2	1:B:531:ASP:H	1.45	0.80
1:D:530:LYS:HG2	1:D:531:ASP:H	1.45	0.80
1:o:530:LYS:HG2	1:o:531:ASP:H	1.45	0.80
1:z:530:LYS:HG2	1:z:531:ASP:H	1.45	0.80
1:X:530:LYS:HG2	1:X:531:ASP:H	1.45	0.80
1:b:530:LYS:HG2	1:b:531:ASP:H	1.45	0.80
1:k:530:LYS:HG2	1:k:531:ASP:H	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:530:LYS:HG2	1:f:531:ASP:H	1.45	0.80
1:g:530:LYS:HG2	1:g:531:ASP:H	1.45	0.80
1:i:530:LYS:HG2	1:i:531:ASP:H	1.45	0.80
1:C:530:LYS:HG2	1:C:531:ASP:H	1.45	0.80
1:N:530:LYS:HG2	1:N:531:ASP:H	1.45	0.80
1:6:530:LYS:HG2	1:6:531:ASP:H	1.45	0.80
1:y:530:LYS:HG2	1:y:531:ASP:H	1.45	0.79
1:M:530:LYS:HG2	1:M:531:ASP:H	1.45	0.79
1:F:530:LYS:HG2	1:F:531:ASP:H	1.45	0.79
1:I:530:LYS:HG2	1:I:531:ASP:H	1.45	0.79
1:W:530:LYS:HG2	1:W:531:ASP:H	1.45	0.79
1:h:530:LYS:HG2	1:h:531:ASP:H	1.45	0.79
1:c:530:LYS:HG2	1:c:531:ASP:H	1.45	0.79
1:u:530:LYS:HG2	1:u:531:ASP:H	1.45	0.79
1:Y:530:LYS:HG2	1:Y:531:ASP:H	1.45	0.79
1:e:530:LYS:HG2	1:e:531:ASP:H	1.45	0.78
1:7:530:LYS:HG2	1:7:531:ASP:H	1.45	0.78
1:v:485:CYS:SG	1:v:578:TYR:HB2	2.26	0.76
1:A:485:CYS:SG	1:A:578:TYR:HB2	2.26	0.76
1:X:485:CYS:SG	1:X:578:TYR:HB2	2.26	0.76
1:j:485:CYS:SG	1:j:578:TYR:HB2	2.26	0.76
1:o:485:CYS:SG	1:o:578:TYR:HB2	2.26	0.76
1:P:485:CYS:SG	1:P:578:TYR:HB2	2.26	0.75
1:4:485:CYS:SG	1:4:578:TYR:HB2	2.26	0.75
1:G:485:CYS:SG	1:G:578:TYR:HB2	2.26	0.75
1:K:485:CYS:SG	1:K:578:TYR:HB2	2.26	0.75
1:R:485:CYS:SG	1:R:578:TYR:HB2	2.26	0.75
1:S:485:CYS:SG	1:S:578:TYR:HB2	2.26	0.75
1:q:485:CYS:SG	1:q:578:TYR:HB2	2.26	0.75
1:y:485:CYS:SG	1:y:578:TYR:HB2	2.26	0.75
1:F:485:CYS:SG	1:F:578:TYR:HB2	2.26	0.75
1:M:485:CYS:SG	1:M:578:TYR:HB2	2.26	0.75
1:Q:485:CYS:SG	1:Q:578:TYR:HB2	2.26	0.75
1:d:485:CYS:SG	1:d:578:TYR:HB2	2.26	0.75
1:h:485:CYS:SG	1:h:578:TYR:HB2	2.26	0.75
1:r:485:CYS:SG	1:r:578:TYR:HB2	2.26	0.75
1:t:485:CYS:SG	1:t:578:TYR:HB2	2.26	0.75
1:x:485:CYS:SG	1:x:578:TYR:HB2	2.26	0.75
1:W:485:CYS:SG	1:W:578:TYR:HB2	2.26	0.75
1:Y:485:CYS:SG	1:Y:578:TYR:HB2	2.26	0.75
1:J:485:CYS:SG	1:J:578:TYR:HB2	2.26	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:485:CYS:SG	1:2:578:TYR:HB2	2.26	0.75
1:6:485:CYS:SG	1:6:578:TYR:HB2	2.26	0.75
1:7:485:CYS:SG	1:7:578:TYR:HB2	2.26	0.75
1:D:485:CYS:SG	1:D:578:TYR:HB2	2.26	0.75
1:I:485:CYS:SG	1:I:578:TYR:HB2	2.26	0.75
1:k:485:CYS:SG	1:k:578:TYR:HB2	2.26	0.75
1:n:485:CYS:SG	1:n:578:TYR:HB2	2.26	0.75
1:u:485:CYS:SG	1:u:578:TYR:HB2	2.26	0.75
1:z:485:CYS:SG	1:z:578:TYR:HB2	2.26	0.75
1:3:485:CYS:SG	1:3:578:TYR:HB2	2.26	0.75
1:O:485:CYS:SG	1:O:578:TYR:HB2	2.26	0.75
1:a:485:CYS:SG	1:a:578:TYR:HB2	2.26	0.75
1:L:485:CYS:SG	1:L:578:TYR:HB2	2.26	0.75
1:l:485:CYS:SG	1:l:578:TYR:HB2	2.26	0.75
1:w:485:CYS:SG	1:w:578:TYR:HB2	2.26	0.75
1:C:485:CYS:SG	1:C:578:TYR:HB2	2.26	0.74
1:E:485:CYS:SG	1:E:578:TYR:HB2	2.26	0.74
1:T:485:CYS:SG	1:T:578:TYR:HB2	2.26	0.74
1:U:485:CYS:SG	1:U:578:TYR:HB2	2.26	0.74
1:Z:485:CYS:SG	1:Z:578:TYR:HB2	2.26	0.74
1:f:485:CYS:SG	1:f:578:TYR:HB2	2.26	0.74
1:8:485:CYS:SG	1:8:578:TYR:HB2	2.26	0.74
1:p:485:CYS:SG	1:p:578:TYR:HB2	2.26	0.74
1:5:485:CYS:SG	1:5:578:TYR:HB2	2.26	0.74
1:B:485:CYS:SG	1:B:578:TYR:HB2	2.26	0.74
1:V:485:CYS:SG	1:V:578:TYR:HB2	2.26	0.74
1:b:485:CYS:SG	1:b:578:TYR:HB2	2.26	0.74
1:g:485:CYS:SG	1:g:578:TYR:HB2	2.26	0.74
1:m:485:CYS:SG	1:m:578:TYR:HB2	2.26	0.74
1:H:485:CYS:SG	1:H:578:TYR:HB2	2.26	0.74
1:N:485:CYS:SG	1:N:578:TYR:HB2	2.26	0.74
1:c:485:CYS:SG	1:c:578:TYR:HB2	2.26	0.74
1:e:485:CYS:SG	1:e:578:TYR:HB2	2.26	0.74
1:i:485:CYS:SG	1:i:578:TYR:HB2	2.26	0.74
1:1:485:CYS:SG	1:1:578:TYR:HB2	2.26	0.74
1:s:485:CYS:SG	1:s:578:TYR:HB2	2.26	0.74
1:G:451:GLN:NE2	1:I:500:ASN:OD1	2.26	0.68
1:t:451:GLN:NE2	1:u:500:ASN:OD1	2.26	0.68
1:K:500:ASN:OD1	1:8:451:GLN:NE2	2.27	0.68
1:Z:451:GLN:NE2	1:4:500:ASN:OD1	2.27	0.68
1:B:451:GLN:NE2	1:J:500:ASN:OD1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:451:GLN:NE2	1:2:500:ASN:OD1	2.27	0.67
1:C:451:GLN:NE2	1:b:500:ASN:OD1	2.27	0.67
1:C:500:ASN:OD1	1:M:451:GLN:NE2	2.27	0.67
1:O:226:SER:HG	1:O:319:ASN:H	1.43	0.67
1:g:500:ASN:OD1	1:h:451:GLN:NE2	2.27	0.67
1:C:226:SER:HG	1:C:319:ASN:H	1.43	0.67
1:Z:500:ASN:OD1	1:3:451:GLN:NE2	2.27	0.66
1:g:226:SER:HG	1:g:319:ASN:H	1.43	0.66
1:K:451:GLN:NE2	1:a:500:ASN:OD1	2.27	0.66
1:N:226:SER:HG	1:N:319:ASN:H	1.43	0.66
1:3:500:ASN:OD1	1:4:451:GLN:NE2	2.27	0.66
1:D:500:ASN:OD1	1:P:451:GLN:NE2	2.27	0.66
1:a:451:GLN:NE2	1:8:500:ASN:OD1	2.27	0.66
1:B:500:ASN:OD1	1:L:451:GLN:NE2	2.27	0.66
1:i:226:SER:HG	1:i:319:ASN:H	1.43	0.66
1:z:500:ASN:OD1	1:2:451:GLN:NE2	2.27	0.66
1:5:567:ILE:HD12	1:5:571:ASN:HD22	1.61	0.66
1:H:567:ILE:HD12	1:H:571:ASN:HD22	1.61	0.66
1:I:567:ILE:HD12	1:I:571:ASN:HD22	1.61	0.66
1:j:451:GLN:NE2	1:k:500:ASN:OD1	2.27	0.66
1:r:226:SER:HG	1:r:319:ASN:H	1.43	0.66
1:E:226:SER:HG	1:E:319:ASN:H	1.44	0.66
1:J:451:GLN:NE2	1:L:500:ASN:OD1	2.27	0.66
1:V:226:SER:HG	1:V:319:ASN:H	1.43	0.66
1:z:451:GLN:NE2	1:1:500:ASN:OD1	2.27	0.66
1:6:451:GLN:NE2	1:7:500:ASN:OD1	2.27	0.66
1:W:451:GLN:NE2	1:Y:500:ASN:OD1	2.27	0.66
1:u:451:GLN:NE2	1:v:500:ASN:OD1	2.27	0.66
1:u:567:ILE:HD12	1:u:571:ASN:HD22	1.61	0.66
1:c:500:ASN:OD1	1:p:451:GLN:NE2	2.27	0.66
1:h:226:SER:HG	1:h:319:ASN:H	1.43	0.66
1:M:226:SER:HG	1:M:319:ASN:H	1.43	0.66
1:V:451:GLN:NE2	1:e:500:ASN:OD1	2.27	0.66
1:W:567:ILE:HD12	1:W:571:ASN:HD22	1.61	0.66
1:f:500:ASN:OD1	1:g:451:GLN:NE2	2.28	0.66
1:q:451:GLN:NE2	1:r:500:ASN:OD1	2.27	0.66
1:2:567:ILE:HD12	1:2:571:ASN:HD22	1.61	0.66
1:o:451:GLN:NE2	1:p:500:ASN:OD1	2.27	0.65
1:p:226:SER:HG	1:p:319:ASN:H	1.43	0.65
1:t:226:SER:HG	1:t:319:ASN:H	1.43	0.65
1:z:226:SER:HG	1:z:319:ASN:H	1.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:567:ILE:HD12	1:6:571:ASN:HD22	1.61	0.65
1:A:500:ASN:OD1	1:I:451:GLN:NE2	2.28	0.65
1:J:567:ILE:HD12	1:J:571:ASN:HD22	1.61	0.65
1:L:567:ILE:HD12	1:L:571:ASN:HD22	1.61	0.65
1:N:218:GLY:HA3	1:N:409:ASN:HA	1.79	0.65
1:a:567:ILE:HD12	1:a:571:ASN:HD22	1.61	0.65
1:o:218:GLY:HA3	1:o:409:ASN:HA	1.79	0.65
1:w:218:GLY:HA3	1:w:409:ASN:HA	1.79	0.65
1:J:226:SER:HG	1:J:319:ASN:H	1.43	0.65
1:L:226:SER:HG	1:L:319:ASN:H	1.43	0.65
1:O:567:ILE:HD12	1:O:571:ASN:HD22	1.61	0.65
1:R:451:GLN:NE2	1:S:500:ASN:OD1	2.27	0.65
1:X:218:GLY:HA3	1:X:409:ASN:HA	1.79	0.65
1:Z:567:ILE:HD12	1:Z:571:ASN:HD22	1.61	0.65
1:b:567:ILE:HD12	1:b:571:ASN:HD22	1.61	0.65
1:f:567:ILE:HD12	1:f:571:ASN:HD22	1.61	0.65
1:i:218:GLY:HA3	1:i:409:ASN:HA	1.79	0.65
1:l:567:ILE:HD12	1:l:571:ASN:HD22	1.61	0.65
1:t:567:ILE:HD12	1:t:571:ASN:HD22	1.61	0.65
1:z:567:ILE:HD12	1:z:571:ASN:HD22	1.61	0.65
1:G:567:ILE:HD12	1:G:571:ASN:HD22	1.61	0.65
1:L:218:GLY:HA3	1:L:409:ASN:HA	1.79	0.65
1:P:567:ILE:HD12	1:P:571:ASN:HD22	1.61	0.65
1:S:226:SER:HG	1:S:319:ASN:H	1.43	0.65
1:T:567:ILE:HD12	1:T:571:ASN:HD22	1.61	0.65
1:m:226:SER:HG	1:m:319:ASN:H	1.44	0.65
1:3:567:ILE:HD12	1:3:571:ASN:HD22	1.61	0.65
1:8:567:ILE:HD12	1:8:571:ASN:HD22	1.61	0.65
1:A:226:SER:HG	1:A:319:ASN:H	1.44	0.65
1:E:218:GLY:HA3	1:E:409:ASN:HA	1.79	0.65
1:f:451:GLN:NE2	1:h:500:ASN:OD1	2.27	0.65
1:j:567:ILE:HD12	1:j:571:ASN:HD22	1.61	0.65
1:M:500:ASN:OD1	1:b:451:GLN:NE2	2.27	0.65
1:T:218:GLY:HA3	1:T:409:ASN:HA	1.79	0.65
1:m:567:ILE:HD12	1:m:571:ASN:HD22	1.61	0.65
1:w:567:ILE:HD12	1:w:571:ASN:HD22	1.61	0.65
1:y:567:ILE:HD12	1:y:571:ASN:HD22	1.61	0.65
1:z:218:GLY:HA3	1:z:409:ASN:HA	1.79	0.65
1:2:226:SER:HG	1:2:319:ASN:H	1.43	0.65
1:F:567:ILE:HD12	1:F:571:ASN:HD22	1.61	0.65
1:S:567:ILE:HD12	1:S:571:ASN:HD22	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:226:SER:HG	1:Z:319:ASN:H	1.43	0.65
1:e:567:ILE:HD12	1:e:571:ASN:HD22	1.61	0.65
1:m:218:GLY:HA3	1:m:409:ASN:HA	1.79	0.65
1:x:218:GLY:HA3	1:x:409:ASN:HA	1.79	0.65
1:B:226:SER:HG	1:B:319:ASN:H	1.44	0.65
1:E:567:ILE:HD12	1:E:571:ASN:HD22	1.61	0.65
1:K:226:SER:HG	1:K:319:ASN:H	1.42	0.65
1:Q:218:GLY:HA3	1:Q:409:ASN:HA	1.79	0.65
1:T:226:SER:HG	1:T:319:ASN:H	1.44	0.65
1:d:226:SER:HG	1:d:319:ASN:H	1.43	0.65
1:q:218:GLY:HA3	1:q:409:ASN:HA	1.79	0.65
1:H:218:GLY:HA3	1:H:409:ASN:HA	1.79	0.65
1:Q:567:ILE:HD12	1:Q:571:ASN:HD22	1.61	0.65
1:V:500:ASN:OD1	1:X:451:GLN:NE2	2.27	0.65
1:c:567:ILE:HD12	1:c:571:ASN:HD22	1.61	0.65
1:j:218:GLY:HA3	1:j:409:ASN:HA	1.79	0.65
1:v:226:SER:HG	1:v:319:ASN:H	1.45	0.65
1:1:226:SER:HG	1:1:319:ASN:H	1.44	0.65
1:D:567:ILE:HD12	1:D:571:ASN:HD22	1.61	0.65
1:P:218:GLY:HA3	1:P:409:ASN:HA	1.79	0.65
1:r:567:ILE:HD12	1:r:571:ASN:HD22	1.61	0.65
1:v:567:ILE:HD12	1:v:571:ASN:HD22	1.61	0.65
1:F:226:SER:HG	1:F:319:ASN:H	1.44	0.64
1:R:218:GLY:HA3	1:R:409:ASN:HA	1.79	0.64
1:Y:226:SER:HG	1:Y:319:ASN:H	1.45	0.64
1:k:226:SER:HG	1:k:319:ASN:H	1.42	0.64
1:n:226:SER:HG	1:n:319:ASN:H	1.43	0.64
1:q:500:ASN:OD1	1:s:451:GLN:NE2	2.27	0.64
1:w:500:ASN:OD1	1:y:451:GLN:NE2	2.27	0.64
1:x:567:ILE:HD12	1:x:571:ASN:HD22	1.61	0.64
1:6:226:SER:HG	1:6:319:ASN:H	1.43	0.64
1:A:567:ILE:HD12	1:A:571:ASN:HD22	1.61	0.64
1:D:218:GLY:HA3	1:D:409:ASN:HA	1.79	0.64
1:G:218:GLY:HA3	1:G:409:ASN:HA	1.79	0.64
1:R:500:ASN:OD1	1:U:451:GLN:NE2	2.27	0.64
1:X:226:SER:HG	1:X:319:ASN:H	1.42	0.64
1:d:218:GLY:HA3	1:d:409:ASN:HA	1.79	0.64
1:x:691:GLU:HG3	1:x:733:LEU:HD23	1.80	0.64
1:z:691:GLU:HG3	1:z:733:LEU:HD23	1.80	0.64
1:5:218:GLY:HA3	1:5:409:ASN:HA	1.79	0.64
1:7:567:ILE:HD12	1:7:571:ASN:HD22	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:226:SER:HG	1:D:319:ASN:H	1.43	0.64
1:L:691:GLU:HG3	1:L:733:LEU:HD23	1.80	0.64
1:Q:691:GLU:HG3	1:Q:733:LEU:HD23	1.80	0.64
1:c:451:GLN:NE2	1:o:500:ASN:OD1	2.27	0.64
1:k:218:GLY:HA3	1:k:409:ASN:HA	1.79	0.64
1:k:567:ILE:HD12	1:k:571:ASN:HD22	1.61	0.64
1:n:691:GLU:HG3	1:n:733:LEU:HD23	1.80	0.64
1:t:218:GLY:HA3	1:t:409:ASN:HA	1.79	0.64
1:y:226:SER:HG	1:y:319:ASN:H	1.44	0.64
1:1:567:ILE:HD12	1:1:571:ASN:HD22	1.61	0.64
1:B:567:ILE:HD12	1:B:571:ASN:HD22	1.61	0.64
1:C:218:GLY:HA3	1:C:409:ASN:HA	1.79	0.64
1:E:500:ASN:OD1	1:F:451:GLN:NE2	2.27	0.64
1:H:451:GLN:NE2	1:W:500:ASN:OD1	2.27	0.64
1:I:691:GLU:HG3	1:I:733:LEU:HD23	1.80	0.64
1:M:691:GLU:HG3	1:M:733:LEU:HD23	1.80	0.64
1:X:567:ILE:HD12	1:X:571:ASN:HD22	1.61	0.64
1:Y:567:ILE:HD12	1:Y:571:ASN:HD22	1.61	0.64
1:b:218:GLY:HA3	1:b:409:ASN:HA	1.79	0.64
1:h:691:GLU:HG3	1:h:733:LEU:HD23	1.80	0.64
1:o:567:ILE:HD12	1:o:571:ASN:HD22	1.61	0.64
1:s:691:GLU:HG3	1:s:733:LEU:HD23	1.80	0.64
1:u:691:GLU:HG3	1:u:733:LEU:HD23	1.80	0.64
1:5:451:GLN:NE2	1:6:500:ASN:OD1	2.27	0.64
1:E:451:GLN:NE2	1:Q:500:ASN:OD1	2.26	0.64
1:E:691:GLU:HG3	1:E:733:LEU:HD23	1.80	0.64
1:O:218:GLY:HA3	1:O:409:ASN:HA	1.79	0.64
1:P:691:GLU:HG3	1:P:733:LEU:HD23	1.80	0.64
1:U:567:ILE:HD12	1:U:571:ASN:HD22	1.61	0.64
1:U:691:GLU:HG3	1:U:733:LEU:HD23	1.80	0.64
1:d:691:GLU:HG3	1:d:733:LEU:HD23	1.80	0.64
1:f:218:GLY:HA3	1:f:409:ASN:HA	1.79	0.64
1:g:218:GLY:HA3	1:g:409:ASN:HA	1.79	0.64
1:i:567:ILE:HD12	1:i:571:ASN:HD22	1.61	0.64
1:n:218:GLY:HA3	1:n:409:ASN:HA	1.79	0.64
1:n:567:ILE:HD12	1:n:571:ASN:HD22	1.61	0.64
1:s:567:ILE:HD12	1:s:571:ASN:HD22	1.61	0.64
1:4:226:SER:HG	1:4:319:ASN:H	1.45	0.64
1:H:691:GLU:HG3	1:H:733:LEU:HD23	1.80	0.64
1:N:691:GLU:HG3	1:N:733:LEU:HD23	1.80	0.64
1:V:567:ILE:HD12	1:V:571:ASN:HD22	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:218:GLY:HA3	1:Z:409:ASN:HA	1.79	0.64
1:a:218:GLY:HA3	1:a:409:ASN:HA	1.79	0.64
1:e:218:GLY:HA3	1:e:409:ASN:HA	1.79	0.64
1:j:691:GLU:HG3	1:j:733:LEU:HD23	1.80	0.64
1:l:218:GLY:HA3	1:l:409:ASN:HA	1.79	0.64
1:l:226:SER:HG	1:l:319:ASN:H	1.43	0.64
1:q:567:ILE:HD12	1:q:571:ASN:HD22	1.61	0.64
1:t:691:GLU:HG3	1:t:733:LEU:HD23	1.80	0.64
1:w:691:GLU:HG3	1:w:733:LEU:HD23	1.80	0.64
1:3:218:GLY:HA3	1:3:409:ASN:HA	1.79	0.64
1:8:218:GLY:HA3	1:8:409:ASN:HA	1.79	0.64
1:A:691:GLU:HG3	1:A:733:LEU:HD23	1.80	0.64
1:G:691:GLU:HG3	1:G:733:LEU:HD23	1.80	0.64
1:N:567:ILE:HD12	1:N:571:ASN:HD22	1.61	0.64
1:X:500:ASN:OD1	1:e:451:GLN:NE2	2.27	0.64
1:c:218:GLY:HA3	1:c:409:ASN:HA	1.79	0.64
1:d:567:ILE:HD12	1:d:571:ASN:HD22	1.61	0.64
1:g:691:GLU:HG3	1:g:733:LEU:HD23	1.80	0.64
1:i:691:GLU:HG3	1:i:733:LEU:HD23	1.80	0.64
1:v:691:GLU:HG3	1:v:733:LEU:HD23	1.80	0.64
1:C:567:ILE:HD12	1:C:571:ASN:HD22	1.61	0.64
1:C:691:GLU:HG3	1:C:733:LEU:HD23	1.80	0.64
1:D:451:GLN:NE2	1:N:500:ASN:OD1	2.27	0.64
1:I:218:GLY:HA3	1:I:409:ASN:HA	1.79	0.64
1:K:218:GLY:HA3	1:K:409:ASN:HA	1.79	0.64
1:T:451:GLN:NE2	1:d:500:ASN:OD1	2.27	0.64
1:W:218:GLY:HA3	1:W:409:ASN:HA	1.79	0.64
1:a:691:GLU:HG3	1:a:733:LEU:HD23	1.80	0.64
1:j:226:SER:HG	1:j:319:ASN:H	1.43	0.64
1:r:451:GLN:NE2	1:s:500:ASN:OD1	2.27	0.64
1:w:451:GLN:NE2	1:x:500:ASN:OD1	2.27	0.64
1:y:218:GLY:HA3	1:y:409:ASN:HA	1.79	0.64
1:5:691:GLU:HG3	1:5:733:LEU:HD23	1.80	0.64
1:7:218:GLY:HA3	1:7:409:ASN:HA	1.79	0.64
1:7:226:SER:HG	1:7:319:ASN:H	1.45	0.64
1:F:218:GLY:HA3	1:F:409:ASN:HA	1.79	0.64
1:R:567:ILE:HD12	1:R:571:ASN:HD22	1.61	0.64
1:W:691:GLU:HG3	1:W:733:LEU:HD23	1.80	0.64
1:g:567:ILE:HD12	1:g:571:ASN:HD22	1.61	0.64
1:p:567:ILE:HD12	1:p:571:ASN:HD22	1.61	0.64
1:3:691:GLU:HG3	1:3:733:LEU:HD23	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:218:GLY:HA3	1:4:409:ASN:HA	1.79	0.64
1:6:691:GLU:HG3	1:6:733:LEU:HD23	1.80	0.64
1:B:691:GLU:HG3	1:B:733:LEU:HD23	1.80	0.64
1:M:567:ILE:HD12	1:M:571:ASN:HD22	1.61	0.64
1:O:451:GLN:NE2	1:m:500:ASN:OD1	2.27	0.64
1:S:451:GLN:NE2	1:U:500:ASN:OD1	2.27	0.64
1:T:500:ASN:OD1	1:l:451:GLN:NE2	2.27	0.64
1:U:218:GLY:HA3	1:U:409:ASN:HA	1.79	0.64
1:Y:218:GLY:HA3	1:Y:409:ASN:HA	1.79	0.64
1:i:500:ASN:OD1	1:k:451:GLN:NE2	2.27	0.64
1:q:226:SER:HG	1:q:319:ASN:H	1.43	0.64
1:w:226:SER:HG	1:w:319:ASN:H	1.45	0.64
1:6:218:GLY:HA3	1:6:409:ASN:HA	1.79	0.64
1:R:691:GLU:HG3	1:R:733:LEU:HD23	1.80	0.63
1:k:691:GLU:HG3	1:k:733:LEU:HD23	1.80	0.63
1:q:691:GLU:HG3	1:q:733:LEU:HD23	1.80	0.63
1:s:218:GLY:HA3	1:s:409:ASN:HA	1.79	0.63
1:u:218:GLY:HA3	1:u:409:ASN:HA	1.79	0.63
1:3:226:SER:HG	1:3:319:ASN:H	1.43	0.63
1:D:691:GLU:HG3	1:D:733:LEU:HD23	1.80	0.63
1:h:567:ILE:HD12	1:h:571:ASN:HD22	1.61	0.63
1:2:691:GLU:HG3	1:2:733:LEU:HD23	1.80	0.63
1:F:500:ASN:OD1	1:Q:451:GLN:NE2	2.27	0.63
1:J:218:GLY:HA3	1:J:409:ASN:HA	1.79	0.63
1:J:691:GLU:HG3	1:J:733:LEU:HD23	1.80	0.63
1:M:218:GLY:HA3	1:M:409:ASN:HA	1.79	0.63
1:h:218:GLY:HA3	1:h:409:ASN:HA	1.79	0.63
1:1:691:GLU:HG3	1:1:733:LEU:HD23	1.80	0.63
1:K:567:ILE:HD12	1:K:571:ASN:HD22	1.61	0.63
1:K:691:GLU:HG3	1:K:733:LEU:HD23	1.80	0.63
1:R:226:SER:HG	1:R:319:ASN:H	1.43	0.63
1:Z:691:GLU:HG3	1:Z:733:LEU:HD23	1.80	0.63
1:m:451:GLN:NE2	1:n:500:ASN:OD1	2.27	0.63
1:v:218:GLY:HA3	1:v:409:ASN:HA	1.79	0.63
1:2:218:GLY:HA3	1:2:409:ASN:HA	1.79	0.63
1:4:567:ILE:HD12	1:4:571:ASN:HD22	1.61	0.63
1:4:691:GLU:HG3	1:4:733:LEU:HD23	1.80	0.63
1:A:451:GLN:NE2	1:G:500:ASN:OD1	2.28	0.63
1:W:226:SER:HG	1:W:319:ASN:H	1.43	0.63
1:r:218:GLY:HA3	1:r:409:ASN:HA	1.79	0.63
1:t:500:ASN:OD1	1:v:451:GLN:NE2	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:GLY:HA3	1:A:409:ASN:HA	1.79	0.63
1:8:691:GLU:HG3	1:8:733:LEU:HD23	1.80	0.63
1:c:691:GLU:HG3	1:c:733:LEU:HD23	1.80	0.63
1:S:218:GLY:HA3	1:S:409:ASN:HA	1.79	0.63
1:1:218:GLY:HA3	1:1:409:ASN:HA	1.79	0.63
1:O:500:ASN:OD1	1:n:451:GLN:NE2	2.27	0.63
1:P:226:SER:HG	1:P:319:ASN:H	1.42	0.63
1:e:691:GLU:HG3	1:e:733:LEU:HD23	1.80	0.63
1:p:218:GLY:HA3	1:p:409:ASN:HA	1.79	0.63
1:B:218:GLY:HA3	1:B:409:ASN:HA	1.79	0.62
1:o:691:GLU:HG3	1:o:733:LEU:HD23	1.80	0.62
1:x:451:GLN:NE2	1:y:500:ASN:OD1	2.27	0.62
1:V:218:GLY:HA3	1:V:409:ASN:HA	1.79	0.62
1:X:691:GLU:HG3	1:X:733:LEU:HD23	1.80	0.62
1:b:691:GLU:HG3	1:b:733:LEU:HD23	1.80	0.62
1:f:691:GLU:HG3	1:f:733:LEU:HD23	1.80	0.62
1:l:691:GLU:HG3	1:l:733:LEU:HD23	1.80	0.62
1:p:691:GLU:HG3	1:p:733:LEU:HD23	1.80	0.62
1:O:691:GLU:HG3	1:O:733:LEU:HD23	1.80	0.62
1:S:691:GLU:HG3	1:S:733:LEU:HD23	1.80	0.62
1:V:691:GLU:HG3	1:V:733:LEU:HD23	1.80	0.62
1:Y:691:GLU:HG3	1:Y:733:LEU:HD23	1.80	0.62
1:d:451:GLN:NE2	1:l:500:ASN:OD1	2.27	0.62
1:T:691:GLU:HG3	1:T:733:LEU:HD23	1.80	0.62
1:r:691:GLU:HG3	1:r:733:LEU:HD23	1.80	0.62
1:7:691:GLU:HG3	1:7:733:LEU:HD23	1.80	0.62
1:F:691:GLU:HG3	1:F:733:LEU:HD23	1.80	0.62
1:N:290:HIS:CD2	1:N:366:PRO:HB3	2.35	0.62
1:i:290:HIS:CD2	1:i:366:PRO:HB3	2.35	0.62
1:y:691:GLU:HG3	1:y:733:LEU:HD23	1.80	0.62
1:l:290:HIS:CD2	1:l:366:PRO:HB3	2.35	0.62
1:m:290:HIS:CD2	1:m:366:PRO:HB3	2.35	0.62
1:A:290:HIS:CD2	1:A:366:PRO:HB3	2.35	0.62
1:G:290:HIS:CD2	1:G:366:PRO:HB3	2.35	0.62
1:N:451:GLN:NE2	1:P:500:ASN:OD1	2.27	0.62
1:R:290:HIS:CD2	1:R:366:PRO:HB3	2.35	0.62
1:T:290:HIS:CD2	1:T:366:PRO:HB3	2.35	0.62
1:U:290:HIS:CD2	1:U:366:PRO:HB3	2.35	0.62
1:Y:290:HIS:CD2	1:Y:366:PRO:HB3	2.35	0.62
1:d:290:HIS:CD2	1:d:366:PRO:HB3	2.35	0.62
1:m:691:GLU:HG3	1:m:733:LEU:HD23	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:290:HIS:CD2	1:q:366:PRO:HB3	2.35	0.62
1:s:290:HIS:CD2	1:s:366:PRO:HB3	2.35	0.62
1:v:290:HIS:CD2	1:v:366:PRO:HB3	2.35	0.62
1:E:356:LEU:HD13	1:E:647:GLN:HG2	1.82	0.62
1:I:290:HIS:CD2	1:I:366:PRO:HB3	2.35	0.62
1:O:290:HIS:CD2	1:O:366:PRO:HB3	2.35	0.62
1:n:290:HIS:CD2	1:n:366:PRO:HB3	2.35	0.62
1:o:290:HIS:CD2	1:o:366:PRO:HB3	2.35	0.62
1:t:290:HIS:CD2	1:t:366:PRO:HB3	2.35	0.62
1:u:290:HIS:CD2	1:u:366:PRO:HB3	2.35	0.62
1:7:290:HIS:CD2	1:7:366:PRO:HB3	2.35	0.62
1:L:290:HIS:CD2	1:L:366:PRO:HB3	2.35	0.61
1:X:290:HIS:CD2	1:X:366:PRO:HB3	2.35	0.61
1:a:290:HIS:CD2	1:a:366:PRO:HB3	2.35	0.61
1:i:451:GLN:NE2	1:j:500:ASN:OD1	2.27	0.61
1:m:356:LEU:HD13	1:m:647:GLN:HG2	1.82	0.61
1:w:356:LEU:HD13	1:w:647:GLN:HG2	1.82	0.61
1:z:290:HIS:CD2	1:z:366:PRO:HB3	2.35	0.61
1:3:290:HIS:CD2	1:3:366:PRO:HB3	2.35	0.61
1:T:356:LEU:HD13	1:T:647:GLN:HG2	1.83	0.61
1:c:290:HIS:CD2	1:c:366:PRO:HB3	2.35	0.61
1:s:356:LEU:HD13	1:s:647:GLN:HG2	1.82	0.61
1:1:290:HIS:CD2	1:1:366:PRO:HB3	2.35	0.61
1:2:356:LEU:HD13	1:2:647:GLN:HG2	1.82	0.61
1:H:356:LEU:HD13	1:H:647:GLN:HG2	1.82	0.61
1:J:356:LEU:HD13	1:J:647:GLN:HG2	1.82	0.61
1:U:356:LEU:HD13	1:U:647:GLN:HG2	1.83	0.61
1:W:356:LEU:HD13	1:W:647:GLN:HG2	1.82	0.61
1:a:226:SER:HG	1:a:319:ASN:H	1.43	0.61
1:e:290:HIS:CD2	1:e:366:PRO:HB3	2.35	0.61
1:p:290:HIS:CD2	1:p:366:PRO:HB3	2.35	0.61
1:6:356:LEU:HD13	1:6:647:GLN:HG2	1.82	0.61
1:B:290:HIS:CD2	1:B:366:PRO:HB3	2.35	0.61
1:G:356:LEU:HD13	1:G:647:GLN:HG2	1.82	0.61
1:H:290:HIS:CD2	1:H:366:PRO:HB3	2.35	0.61
1:P:290:HIS:CD2	1:P:366:PRO:HB3	2.35	0.61
1:V:290:HIS:CD2	1:V:366:PRO:HB3	2.35	0.61
1:k:356:LEU:HD13	1:k:647:GLN:HG2	1.82	0.61
1:t:356:LEU:HD13	1:t:647:GLN:HG2	1.82	0.61
1:5:356:LEU:HD13	1:5:647:GLN:HG2	1.83	0.61
1:D:356:LEU:HD13	1:D:647:GLN:HG2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:500:ASN:OD1	1:Y:451:GLN:NE2	2.27	0.61
1:M:356:LEU:HD13	1:M:647:GLN:HG2	1.83	0.61
1:W:290:HIS:CD2	1:W:366:PRO:HB3	2.35	0.61
1:j:290:HIS:CD2	1:j:366:PRO:HB3	2.35	0.61
1:5:500:ASN:OD1	1:7:451:GLN:NE2	2.27	0.61
1:6:290:HIS:CD2	1:6:366:PRO:HB3	2.35	0.61
1:b:290:HIS:CD2	1:b:366:PRO:HB3	2.35	0.61
1:d:356:LEU:HD13	1:d:647:GLN:HG2	1.83	0.61
1:h:356:LEU:HD13	1:h:647:GLN:HG2	1.83	0.61
1:n:356:LEU:HD13	1:n:647:GLN:HG2	1.83	0.61
1:o:356:LEU:HD13	1:o:647:GLN:HG2	1.82	0.61
1:y:356:LEU:HD13	1:y:647:GLN:HG2	1.83	0.61
1:3:356:LEU:HD13	1:3:647:GLN:HG2	1.83	0.61
1:5:290:HIS:CD2	1:5:366:PRO:HB3	2.35	0.61
1:F:290:HIS:CD2	1:F:366:PRO:HB3	2.35	0.61
1:F:356:LEU:HD13	1:F:647:GLN:HG2	1.83	0.61
1:I:356:LEU:HD13	1:I:647:GLN:HG2	1.83	0.61
1:a:356:LEU:HD13	1:a:647:GLN:HG2	1.83	0.61
1:p:356:LEU:HD13	1:p:647:GLN:HG2	1.82	0.61
1:r:356:LEU:HD13	1:r:647:GLN:HG2	1.82	0.61
1:v:356:LEU:HD13	1:v:647:GLN:HG2	1.83	0.61
1:w:290:HIS:CD2	1:w:366:PRO:HB3	2.35	0.61
1:z:356:LEU:HD13	1:z:647:GLN:HG2	1.82	0.61
1:A:356:LEU:HD13	1:A:647:GLN:HG2	1.83	0.61
1:L:356:LEU:HD13	1:L:647:GLN:HG2	1.82	0.61
1:S:356:LEU:HD13	1:S:647:GLN:HG2	1.82	0.61
1:V:356:LEU:HD13	1:V:647:GLN:HG2	1.82	0.61
1:f:290:HIS:CD2	1:f:366:PRO:HB3	2.35	0.61
1:j:355:VAL:H	1:j:647:GLN:HE22	1.49	0.61
1:u:356:LEU:HD13	1:u:647:GLN:HG2	1.82	0.61
1:C:290:HIS:CD2	1:C:366:PRO:HB3	2.35	0.61
1:E:290:HIS:CD2	1:E:366:PRO:HB3	2.35	0.61
1:Q:290:HIS:CD2	1:Q:366:PRO:HB3	2.35	0.61
1:S:290:HIS:CD2	1:S:366:PRO:HB3	2.35	0.61
1:g:290:HIS:CD2	1:g:366:PRO:HB3	2.35	0.61
1:y:290:HIS:CD2	1:y:366:PRO:HB3	2.35	0.61
1:K:356:LEU:HD13	1:K:647:GLN:HG2	1.82	0.61
1:P:355:VAL:H	1:P:647:GLN:HE22	1.49	0.61
1:X:356:LEU:HD13	1:X:647:GLN:HG2	1.83	0.61
1:Z:290:HIS:CD2	1:Z:366:PRO:HB3	2.35	0.61
1:h:290:HIS:CD2	1:h:366:PRO:HB3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:355:VAL:H	1:p:647:GLN:HE22	1.49	0.61
1:r:290:HIS:CD2	1:r:366:PRO:HB3	2.35	0.61
1:3:355:VAL:H	1:3:647:GLN:HE22	1.49	0.61
1:U:226:SER:HG	1:U:319:ASN:H	1.49	0.60
1:V:355:VAL:H	1:V:647:GLN:HE22	1.49	0.60
1:a:355:VAL:H	1:a:647:GLN:HE22	1.49	0.60
1:l:355:VAL:H	1:l:647:GLN:HE22	1.49	0.60
1:o:226:SER:HG	1:o:319:ASN:H	1.49	0.60
1:o:355:VAL:H	1:o:647:GLN:HE22	1.49	0.60
1:8:290:HIS:CD2	1:8:366:PRO:HB3	2.35	0.60
1:D:290:HIS:CD2	1:D:366:PRO:HB3	2.35	0.60
1:M:290:HIS:CD2	1:M:366:PRO:HB3	2.35	0.60
1:X:355:VAL:H	1:X:647:GLN:HE22	1.49	0.60
1:k:290:HIS:CD2	1:k:366:PRO:HB3	2.35	0.60
1:s:226:SER:HG	1:s:319:ASN:H	1.50	0.60
1:x:290:HIS:CD2	1:x:366:PRO:HB3	2.35	0.60
1:2:290:HIS:CD2	1:2:366:PRO:HB3	2.35	0.60
1:4:356:LEU:HD13	1:4:647:GLN:HG2	1.82	0.60
1:6:355:VAL:H	1:6:647:GLN:HE22	1.49	0.60
1:O:355:VAL:H	1:O:647:GLN:HE22	1.49	0.60
1:W:355:VAL:H	1:W:647:GLN:HE22	1.49	0.60
1:d:355:VAL:H	1:d:647:GLN:HE22	1.49	0.60
1:n:355:VAL:H	1:n:647:GLN:HE22	1.49	0.60
1:t:355:VAL:H	1:t:647:GLN:HE22	1.49	0.60
1:1:256:HIS:CD2	1:1:654:PRO:HG3	2.37	0.60
1:D:256:HIS:CD2	1:D:654:PRO:HG3	2.37	0.60
1:G:355:VAL:H	1:G:647:GLN:HE22	1.49	0.60
1:H:256:HIS:CD2	1:H:654:PRO:HG3	2.37	0.60
1:J:256:HIS:CD2	1:J:654:PRO:HG3	2.37	0.60
1:J:290:HIS:CD2	1:J:366:PRO:HB3	2.35	0.60
1:O:256:HIS:CD2	1:O:654:PRO:HG3	2.37	0.60
1:Q:355:VAL:H	1:Q:647:GLN:HE22	1.49	0.60
1:b:356:LEU:HD13	1:b:647:GLN:HG2	1.82	0.60
1:f:356:LEU:HD13	1:f:647:GLN:HG2	1.83	0.60
1:l:256:HIS:CD2	1:l:654:PRO:HG3	2.37	0.60
1:v:355:VAL:H	1:v:647:GLN:HE22	1.49	0.60
1:x:355:VAL:H	1:x:647:GLN:HE22	1.49	0.60
1:y:355:VAL:H	1:y:647:GLN:HE22	1.49	0.60
1:2:256:HIS:CD2	1:2:654:PRO:HG3	2.37	0.60
1:B:256:HIS:CD2	1:B:654:PRO:HG3	2.37	0.60
1:F:355:VAL:H	1:F:647:GLN:HE22	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:256:HIS:CD2	1:Y:654:PRO:HG3	2.37	0.60
1:c:226:SER:HG	1:c:319:ASN:H	1.49	0.60
1:g:297:ASP:OD2	1:1:399:TYR:OH	2.20	0.60
1:k:256:HIS:CD2	1:k:654:PRO:HG3	2.37	0.60
1:n:256:HIS:CD2	1:n:654:PRO:HG3	2.37	0.60
1:s:256:HIS:CD2	1:s:654:PRO:HG3	2.37	0.60
1:5:256:HIS:CD2	1:5:654:PRO:HG3	2.37	0.60
1:A:355:VAL:H	1:A:647:GLN:HE22	1.49	0.60
1:C:256:HIS:CD2	1:C:654:PRO:HG3	2.37	0.60
1:K:290:HIS:CD2	1:K:366:PRO:HB3	2.35	0.60
1:U:256:HIS:CD2	1:U:654:PRO:HG3	2.37	0.60
1:W:256:HIS:CD2	1:W:654:PRO:HG3	2.37	0.60
1:d:256:HIS:CD2	1:d:654:PRO:HG3	2.37	0.60
1:g:373:MET:HE3	1:1:663:PHE:HA	1.83	0.60
1:7:256:HIS:CD2	1:7:654:PRO:HG3	2.37	0.60
1:Q:256:HIS:CD2	1:Q:654:PRO:HG3	2.37	0.60
1:S:355:VAL:H	1:S:647:GLN:HE22	1.49	0.60
1:c:356:LEU:HD13	1:c:647:GLN:HG2	1.82	0.60
1:e:226:SER:HG	1:e:319:ASN:H	1.49	0.60
1:g:256:HIS:CD2	1:g:654:PRO:HG3	2.37	0.60
1:g:399:TYR:OH	1:k:297:ASP:OD2	2.20	0.60
1:4:290:HIS:CD2	1:4:366:PRO:HB3	2.35	0.60
1:6:256:HIS:CD2	1:6:654:PRO:HG3	2.37	0.60
1:8:356:LEU:HD13	1:8:647:GLN:HG2	1.83	0.60
1:I:355:VAL:H	1:I:647:GLN:HE22	1.49	0.60
1:M:256:HIS:CD2	1:M:654:PRO:HG3	2.37	0.60
1:Q:356:LEU:HD13	1:Q:647:GLN:HG2	1.82	0.60
1:X:256:HIS:CD2	1:X:654:PRO:HG3	2.37	0.60
1:e:356:LEU:HD13	1:e:647:GLN:HG2	1.83	0.60
1:h:256:HIS:CD2	1:h:654:PRO:HG3	2.37	0.60
1:o:256:HIS:CD2	1:o:654:PRO:HG3	2.37	0.60
1:r:355:VAL:H	1:r:647:GLN:HE22	1.49	0.60
1:w:256:HIS:CD2	1:w:654:PRO:HG3	2.37	0.60
1:x:256:HIS:CD2	1:x:654:PRO:HG3	2.37	0.60
1:7:356:LEU:HD13	1:7:647:GLN:HG2	1.83	0.60
1:A:663:PHE:HA	1:B:373:MET:HE3	1.84	0.60
1:E:256:HIS:CD2	1:E:654:PRO:HG3	2.37	0.60
1:N:256:HIS:CD2	1:N:654:PRO:HG3	2.37	0.60
1:N:355:VAL:H	1:N:647:GLN:HE22	1.49	0.60
1:P:445:TYR:CE1	1:P:467:GLN:HG3	2.37	0.60
1:Z:356:LEU:HD13	1:Z:647:GLN:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:256:HIS:CD2	1:a:654:PRO:HG3	2.37	0.60
1:g:356:LEU:HD13	1:g:647:GLN:HG2	1.82	0.60
1:i:355:VAL:H	1:i:647:GLN:HE22	1.49	0.60
1:j:445:TYR:CE1	1:j:467:GLN:HG3	2.37	0.60
1:u:355:VAL:H	1:u:647:GLN:HE22	1.49	0.60
1:u:445:TYR:CE1	1:u:467:GLN:HG3	2.37	0.60
1:1:356:LEU:HD13	1:1:647:GLN:HG2	1.82	0.60
1:7:355:VAL:H	1:7:647:GLN:HE22	1.49	0.60
1:A:256:HIS:CD2	1:A:654:PRO:HG3	2.37	0.60
1:B:356:LEU:HD13	1:B:647:GLN:HG2	1.82	0.60
1:G:226:SER:HG	1:G:319:ASN:H	1.49	0.60
1:H:445:TYR:CE1	1:H:467:GLN:HG3	2.37	0.60
1:I:445:TYR:CE1	1:I:467:GLN:HG3	2.37	0.60
1:R:355:VAL:H	1:R:647:GLN:HE22	1.49	0.60
1:Y:355:VAL:H	1:Y:647:GLN:HE22	1.49	0.60
1:Y:356:LEU:HD13	1:Y:647:GLN:HG2	1.82	0.60
1:i:256:HIS:CD2	1:i:654:PRO:HG3	2.37	0.60
1:j:297:ASP:OD2	1:x:399:TYR:OH	2.20	0.60
1:n:445:TYR:CE1	1:n:467:GLN:HG3	2.37	0.60
1:q:356:LEU:HD13	1:q:647:GLN:HG2	1.82	0.60
1:t:445:TYR:CE1	1:t:467:GLN:HG3	2.37	0.60
1:x:356:LEU:HD13	1:x:647:GLN:HG2	1.82	0.60
1:y:256:HIS:CD2	1:y:654:PRO:HG3	2.37	0.60
1:3:256:HIS:CD2	1:3:654:PRO:HG3	2.37	0.60
1:5:445:TYR:CE1	1:5:467:GLN:HG3	2.37	0.60
1:F:256:HIS:CD2	1:F:654:PRO:HG3	2.37	0.59
1:G:445:TYR:CE1	1:G:467:GLN:HG3	2.37	0.59
1:R:356:LEU:HD13	1:R:647:GLN:HG2	1.83	0.59
1:T:256:HIS:CD2	1:T:654:PRO:HG3	2.37	0.59
1:T:663:PHE:HA	1:i:373:MET:HE3	1.84	0.59
1:b:355:VAL:H	1:b:647:GLN:HE22	1.49	0.59
1:c:445:TYR:CE1	1:c:467:GLN:HG3	2.37	0.59
1:e:445:TYR:CE1	1:e:467:GLN:HG3	2.37	0.59
1:l:445:TYR:CE1	1:l:467:GLN:HG3	2.37	0.59
1:q:355:VAL:H	1:q:647:GLN:HE22	1.49	0.59
1:r:256:HIS:CD2	1:r:654:PRO:HG3	2.37	0.59
1:v:256:HIS:CD2	1:v:654:PRO:HG3	2.37	0.59
1:A:383:ASN:OD1	1:A:516:ARG:NH2	2.36	0.59
1:C:356:LEU:HD13	1:C:647:GLN:HG2	1.83	0.59
1:I:373:MET:HE3	1:J:663:PHE:HA	1.84	0.59
1:J:445:TYR:CE1	1:J:467:GLN:HG3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:383:ASN:OD1	1:K:516:ARG:NH2	2.36	0.59
1:N:383:ASN:OD1	1:N:516:ARG:NH2	2.36	0.59
1:O:356:LEU:HD13	1:O:647:GLN:HG2	1.83	0.59
1:O:445:TYR:CE1	1:O:467:GLN:HG3	2.37	0.59
1:P:297:ASP:OD2	1:Q:399:TYR:OH	2.20	0.59
1:S:256:HIS:CD2	1:S:654:PRO:HG3	2.37	0.59
1:d:445:TYR:CE1	1:d:467:GLN:HG3	2.37	0.59
1:i:383:ASN:OD1	1:i:516:ARG:NH2	2.36	0.59
1:m:256:HIS:CD2	1:m:654:PRO:HG3	2.37	0.59
1:4:383:ASN:OD1	1:4:516:ARG:NH2	2.36	0.59
1:4:445:TYR:CE1	1:4:467:GLN:HG3	2.37	0.59
1:5:355:VAL:H	1:5:647:GLN:HE22	1.49	0.59
1:C:399:TYR:OH	1:D:297:ASP:OD2	2.21	0.59
1:F:383:ASN:OD1	1:F:516:ARG:NH2	2.35	0.59
1:H:355:VAL:H	1:H:647:GLN:HE22	1.49	0.59
1:K:256:HIS:CD2	1:K:654:PRO:HG3	2.37	0.59
1:K:445:TYR:CE1	1:K:467:GLN:HG3	2.37	0.59
1:L:256:HIS:CD2	1:L:654:PRO:HG3	2.37	0.59
1:N:356:LEU:HD13	1:N:647:GLN:HG2	1.83	0.59
1:Z:383:ASN:OD1	1:Z:516:ARG:NH2	2.36	0.59
1:f:355:VAL:H	1:f:647:GLN:HE22	1.49	0.59
1:q:256:HIS:CD2	1:q:654:PRO:HG3	2.37	0.59
1:v:383:ASN:OD1	1:v:516:ARG:NH2	2.36	0.59
1:2:383:ASN:OD1	1:2:516:ARG:NH2	2.36	0.59
1:2:445:TYR:CE1	1:2:467:GLN:HG3	2.37	0.59
1:8:355:VAL:H	1:8:647:GLN:HE22	1.49	0.59
1:D:383:ASN:OD1	1:D:516:ARG:NH2	2.36	0.59
1:D:399:TYR:OH	1:E:297:ASP:OD2	2.21	0.59
1:H:383:ASN:OD1	1:H:516:ARG:NH2	2.36	0.59
1:J:383:ASN:OD1	1:J:516:ARG:NH2	2.36	0.59
1:L:383:ASN:OD1	1:L:516:ARG:NH2	2.36	0.59
1:Q:226:SER:HG	1:Q:319:ASN:H	1.50	0.59
1:S:383:ASN:OD1	1:S:516:ARG:NH2	2.36	0.59
1:Y:297:ASP:OD2	1:4:399:TYR:OH	2.20	0.59
1:Z:355:VAL:H	1:Z:647:GLN:HE22	1.49	0.59
1:e:256:HIS:CD2	1:e:654:PRO:HG3	2.37	0.59
1:e:297:ASP:OD2	1:h:399:TYR:OH	2.20	0.59
1:g:383:ASN:OD1	1:g:516:ARG:NH2	2.35	0.59
1:g:445:TYR:CE1	1:g:467:GLN:HG3	2.37	0.59
1:j:356:LEU:HD13	1:j:647:GLN:HG2	1.83	0.59
1:k:383:ASN:OD1	1:k:516:ARG:NH2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:383:ASN:OD1	1:r:516:ARG:NH2	2.36	0.59
1:y:383:ASN:OD1	1:y:516:ARG:NH2	2.36	0.59
1:z:383:ASN:OD1	1:z:516:ARG:NH2	2.35	0.59
1:1:383:ASN:OD1	1:1:516:ARG:NH2	2.35	0.59
1:8:383:ASN:OD1	1:8:516:ARG:NH2	2.36	0.59
1:B:383:ASN:OD1	1:B:516:ARG:NH2	2.36	0.59
1:B:399:TYR:OH	1:C:297:ASP:OD2	2.21	0.59
1:C:383:ASN:OD1	1:C:516:ARG:NH2	2.36	0.59
1:G:383:ASN:OD1	1:G:516:ARG:NH2	2.36	0.59
1:J:355:VAL:H	1:J:647:GLN:HE22	1.49	0.59
1:J:701:GLN:N	1:K:703:THR:CG2	2.49	0.59
1:K:399:TYR:OH	1:7:297:ASP:OD2	2.20	0.59
1:N:445:TYR:CE1	1:N:467:GLN:HG3	2.37	0.59
1:Y:383:ASN:OD1	1:Y:516:ARG:NH2	2.36	0.59
1:f:256:HIS:CD2	1:f:654:PRO:HG3	2.37	0.59
1:f:445:TYR:CE1	1:f:467:GLN:HG3	2.37	0.59
1:h:355:VAL:H	1:h:647:GLN:HE22	1.49	0.59
1:i:356:LEU:HD13	1:i:647:GLN:HG2	1.83	0.59
1:k:355:VAL:H	1:k:647:GLN:HE22	1.49	0.59
1:l:356:LEU:HD13	1:l:647:GLN:HG2	1.83	0.59
1:t:383:ASN:OD1	1:t:516:ARG:NH2	2.36	0.59
1:w:355:VAL:H	1:w:647:GLN:HE22	1.49	0.59
1:z:256:HIS:CD2	1:z:654:PRO:HG3	2.37	0.59
1:4:256:HIS:CD2	1:4:654:PRO:HG3	2.37	0.59
1:5:383:ASN:OD1	1:5:516:ARG:NH2	2.36	0.59
1:7:383:ASN:OD1	1:7:516:ARG:NH2	2.36	0.59
1:A:445:TYR:CE1	1:A:467:GLN:HG3	2.37	0.59
1:B:355:VAL:H	1:B:647:GLN:HE22	1.49	0.59
1:C:355:VAL:H	1:C:647:GLN:HE22	1.49	0.59
1:C:445:TYR:CE1	1:C:467:GLN:HG3	2.37	0.59
1:E:355:VAL:H	1:E:647:GLN:HE22	1.49	0.59
1:L:355:VAL:H	1:L:647:GLN:HE22	1.49	0.59
1:M:355:VAL:H	1:M:647:GLN:HE22	1.49	0.59
1:M:399:TYR:OH	1:c:297:ASP:OD2	2.21	0.59
1:P:356:LEU:HD13	1:P:647:GLN:HG2	1.82	0.59
1:R:256:HIS:CD2	1:R:654:PRO:HG3	2.37	0.59
1:V:383:ASN:OD1	1:V:516:ARG:NH2	2.36	0.59
1:X:445:TYR:CE1	1:X:467:GLN:HG3	2.37	0.59
1:b:445:TYR:CE1	1:b:467:GLN:HG3	2.37	0.59
1:c:256:HIS:CD2	1:c:654:PRO:HG3	2.37	0.59
1:e:355:VAL:H	1:e:647:GLN:HE22	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:355:VAL:H	1:g:647:GLN:HE22	1.49	0.59
1:i:445:TYR:CE1	1:i:467:GLN:HG3	2.37	0.59
1:p:383:ASN:OD1	1:p:516:ARG:NH2	2.36	0.59
1:u:663:PHE:HA	1:5:373:MET:HE3	1.85	0.59
1:z:355:VAL:H	1:z:647:GLN:HE22	1.49	0.59
1:2:355:VAL:H	1:2:647:GLN:HE22	1.49	0.59
1:8:256:HIS:CD2	1:8:654:PRO:HG3	2.37	0.59
1:D:355:VAL:H	1:D:647:GLN:HE22	1.49	0.59
1:H:399:TYR:OH	1:Z:297:ASP:OD2	2.21	0.59
1:I:297:ASP:OD2	1:J:399:TYR:OH	2.20	0.59
1:P:256:HIS:CD2	1:P:654:PRO:HG3	2.37	0.59
1:V:663:PHE:HA	1:W:373:MET:HE3	1.84	0.59
1:b:256:HIS:CD2	1:b:654:PRO:HG3	2.37	0.59
1:k:399:TYR:OH	1:w:297:ASP:OD2	2.21	0.59
1:o:445:TYR:CE1	1:o:467:GLN:HG3	2.37	0.59
1:t:399:TYR:OH	1:y:297:ASP:OD2	2.21	0.59
1:v:399:TYR:OH	1:1:297:ASP:OD2	2.21	0.59
1:v:445:TYR:CE1	1:v:467:GLN:HG3	2.37	0.59
1:5:399:TYR:OH	1:8:297:ASP:OD2	2.21	0.59
1:E:383:ASN:OD1	1:E:516:ARG:NH2	2.36	0.59
1:F:297:ASP:OD2	1:G:399:TYR:OH	2.21	0.59
1:L:445:TYR:CE1	1:L:467:GLN:HG3	2.37	0.59
1:Q:701:GLN:N	1:R:703:THR:CG2	2.49	0.59
1:U:297:ASP:OD2	1:e:399:TYR:OH	2.21	0.59
1:W:383:ASN:OD1	1:W:516:ARG:NH2	2.36	0.59
1:X:373:MET:HE3	1:Y:663:PHE:HA	1.85	0.59
1:Z:256:HIS:CD2	1:Z:654:PRO:HG3	2.37	0.59
1:c:399:TYR:OH	1:s:297:ASP:OD2	2.21	0.59
1:m:373:MET:HE3	1:s:663:PHE:HA	1.85	0.59
1:n:399:TYR:OH	1:r:297:ASP:OD2	2.21	0.59
1:o:373:MET:HE3	1:7:663:PHE:HA	1.85	0.59
1:p:256:HIS:CD2	1:p:654:PRO:HG3	2.37	0.59
1:u:399:TYR:OH	1:5:297:ASP:OD2	2.20	0.59
1:w:383:ASN:OD1	1:w:516:ARG:NH2	2.36	0.59
1:w:445:TYR:CE1	1:w:467:GLN:HG3	2.37	0.59
1:x:226:SER:HG	1:x:319:ASN:H	1.49	0.59
1:z:663:PHE:HA	1:4:373:MET:HE3	1.85	0.59
1:1:355:VAL:H	1:1:647:GLN:HE22	1.49	0.59
1:8:445:TYR:CE1	1:8:467:GLN:HG3	2.37	0.59
1:A:288:ARG:NE	1:A:290:HIS:HE1	2.01	0.59
1:E:445:TYR:CE1	1:E:467:GLN:HG3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:256:HIS:CD2	1:G:654:PRO:HG3	2.37	0.59
1:I:383:ASN:OD1	1:I:516:ARG:NH2	2.36	0.59
1:K:373:MET:HE3	1:L:663:PHE:HA	1.85	0.59
1:M:297:ASP:OD2	1:N:399:TYR:OH	2.21	0.59
1:O:663:PHE:HA	1:d:373:MET:HE3	1.85	0.59
1:Q:445:TYR:CE1	1:Q:467:GLN:HG3	2.37	0.59
1:S:297:ASP:OD2	1:d:399:TYR:OH	2.21	0.59
1:V:256:HIS:CD2	1:V:654:PRO:HG3	2.37	0.59
1:W:445:TYR:CE1	1:W:467:GLN:HG3	2.37	0.59
1:X:288:ARG:NE	1:X:290:HIS:HE1	2.01	0.59
1:X:399:TYR:OH	1:f:297:ASP:OD2	2.21	0.59
1:Z:445:TYR:CE1	1:Z:467:GLN:HG3	2.37	0.59
1:a:445:TYR:CE1	1:a:467:GLN:HG3	2.37	0.59
1:b:297:ASP:OD2	1:o:399:TYR:OH	2.21	0.59
1:c:355:VAL:H	1:c:647:GLN:HE22	1.49	0.59
1:d:383:ASN:OD1	1:d:516:ARG:NH2	2.35	0.59
1:g:288:ARG:NE	1:g:290:HIS:HE1	2.01	0.59
1:j:256:HIS:CD2	1:j:654:PRO:HG3	2.37	0.59
1:l:663:PHE:HA	1:n:373:MET:HE3	1.85	0.59
1:m:355:VAL:H	1:m:647:GLN:HE22	1.49	0.59
1:n:383:ASN:OD1	1:n:516:ARG:NH2	2.36	0.59
1:o:288:ARG:NE	1:o:290:HIS:HE1	2.01	0.59
1:u:373:MET:HE3	1:2:663:PHE:HA	1.85	0.59
1:v:288:ARG:NE	1:v:290:HIS:HE1	2.01	0.59
1:x:445:TYR:CE1	1:x:467:GLN:HG3	2.37	0.59
1:6:383:ASN:OD1	1:6:516:ARG:NH2	2.36	0.59
1:C:288:ARG:NE	1:C:290:HIS:HE1	2.01	0.59
1:J:297:ASP:OD2	1:a:399:TYR:OH	2.21	0.59
1:K:355:VAL:H	1:K:647:GLN:HE22	1.49	0.59
1:L:297:ASP:OD2	1:b:399:TYR:OH	2.21	0.59
1:N:373:MET:HE3	1:m:663:PHE:HA	1.85	0.59
1:S:445:TYR:CE1	1:S:467:GLN:HG3	2.37	0.59
1:T:373:MET:HE3	1:U:663:PHE:HA	1.85	0.59
1:T:445:TYR:CE1	1:T:467:GLN:HG3	2.37	0.59
1:c:383:ASN:OD1	1:c:516:ARG:NH2	2.36	0.59
1:e:383:ASN:OD1	1:e:516:ARG:NH2	2.36	0.59
1:h:297:ASP:OD2	1:i:399:TYR:OH	2.21	0.59
1:t:256:HIS:CD2	1:t:654:PRO:HG3	2.37	0.59
1:t:373:MET:HE3	1:6:663:PHE:HA	1.85	0.59
1:u:383:ASN:OD1	1:u:516:ARG:NH2	2.36	0.59
1:z:445:TYR:CE1	1:z:467:GLN:HG3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:701:GLN:N	1:4:703:THR:CG2	2.49	0.59
1:3:445:TYR:CE1	1:3:467:GLN:HG3	2.37	0.59
1:4:355:VAL:H	1:4:647:GLN:HE22	1.49	0.59
1:6:445:TYR:CE1	1:6:467:GLN:HG3	2.37	0.59
1:7:445:TYR:CE1	1:7:467:GLN:HG3	2.37	0.59
1:8:288:ARG:NE	1:8:290:HIS:HE1	2.01	0.59
1:B:288:ARG:NE	1:B:290:HIS:HE1	2.01	0.58
1:B:355:VAL:H	1:B:647:GLN:NE2	2.01	0.58
1:H:297:ASP:OD2	1:I:399:TYR:OH	2.21	0.58
1:T:288:ARG:NE	1:T:290:HIS:HE1	2.01	0.58
1:T:355:VAL:H	1:T:647:GLN:HE22	1.49	0.58
1:U:288:ARG:NE	1:U:290:HIS:HE1	2.01	0.58
1:U:383:ASN:OD1	1:U:516:ARG:NH2	2.36	0.58
1:Y:445:TYR:CE1	1:Y:467:GLN:HG3	2.37	0.58
1:Z:288:ARG:NE	1:Z:290:HIS:HE1	2.01	0.58
1:f:399:TYR:OH	1:z:297:ASP:OD2	2.21	0.58
1:l:383:ASN:OD1	1:l:516:ARG:NH2	2.35	0.58
1:m:445:TYR:CE1	1:m:467:GLN:HG3	2.37	0.58
1:p:445:TYR:CE1	1:p:467:GLN:HG3	2.37	0.58
1:q:445:TYR:CE1	1:q:467:GLN:HG3	2.37	0.58
1:s:288:ARG:NE	1:s:290:HIS:HE1	2.01	0.58
1:u:256:HIS:CD2	1:u:654:PRO:HG3	2.37	0.58
1:u:297:ASP:OD2	1:2:399:TYR:OH	2.21	0.58
1:v:663:PHE:HA	1:1:373:MET:HE3	1.85	0.58
1:1:445:TYR:CE1	1:1:467:GLN:HG3	2.37	0.58
1:2:297:ASP:OD2	1:3:399:TYR:OH	2.21	0.58
1:3:383:ASN:OD1	1:3:516:ARG:NH2	2.36	0.58
1:7:701:GLN:N	1:8:703:THR:CG2	2.50	0.58
1:C:663:PHE:HA	1:D:373:MET:HE3	1.85	0.58
1:D:445:TYR:CE1	1:D:467:GLN:HG3	2.37	0.58
1:G:288:ARG:NE	1:G:290:HIS:HE1	2.01	0.58
1:G:373:MET:HE3	1:W:663:PHE:HA	1.85	0.58
1:H:373:MET:HE3	1:I:663:PHE:HA	1.86	0.58
1:T:355:VAL:H	1:T:647:GLN:NE2	2.02	0.58
1:U:355:VAL:H	1:U:647:GLN:NE2	2.02	0.58
1:U:445:TYR:CE1	1:U:467:GLN:HG3	2.37	0.58
1:W:288:ARG:NE	1:W:290:HIS:HE1	2.01	0.58
1:a:383:ASN:OD1	1:a:516:ARG:NH2	2.36	0.58
1:b:355:VAL:H	1:b:647:GLN:NE2	2.02	0.58
1:f:355:VAL:H	1:f:647:GLN:NE2	2.02	0.58
1:h:445:TYR:CE1	1:h:467:GLN:HG3	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:288:ARG:NE	1:k:290:HIS:HE1	2.01	0.58
1:k:445:TYR:CE1	1:k:467:GLN:HG3	2.37	0.58
1:m:288:ARG:NE	1:m:290:HIS:HE1	2.01	0.58
1:m:297:ASP:OD2	1:s:399:TYR:OH	2.21	0.58
1:m:383:ASN:OD1	1:m:516:ARG:NH2	2.36	0.58
1:s:355:VAL:H	1:s:647:GLN:NE2	2.02	0.58
1:s:383:ASN:OD1	1:s:516:ARG:NH2	2.36	0.58
1:s:445:TYR:CE1	1:s:467:GLN:HG3	2.37	0.58
1:t:288:ARG:NE	1:t:290:HIS:HE1	2.01	0.58
1:v:355:VAL:H	1:v:647:GLN:NE2	2.01	0.58
1:y:355:VAL:H	1:y:647:GLN:NE2	2.01	0.58
1:1:355:VAL:H	1:1:647:GLN:NE2	2.02	0.58
1:6:288:ARG:NE	1:6:290:HIS:HE1	2.01	0.58
1:A:353:PRO:HB3	1:I:430:GLN:HE22	1.68	0.58
1:B:445:TYR:CE1	1:B:467:GLN:HG3	2.37	0.58
1:D:355:VAL:H	1:D:647:GLN:NE2	2.01	0.58
1:E:355:VAL:H	1:E:647:GLN:NE2	2.01	0.58
1:F:355:VAL:H	1:F:647:GLN:NE2	2.02	0.58
1:H:288:ARG:NE	1:H:290:HIS:HE1	2.01	0.58
1:I:256:HIS:CD2	1:I:654:PRO:HG3	2.37	0.58
1:M:445:TYR:CE1	1:M:467:GLN:HG3	2.37	0.58
1:O:383:ASN:OD1	1:O:516:ARG:NH2	2.36	0.58
1:Q:383:ASN:OD1	1:Q:516:ARG:NH2	2.36	0.58
1:R:445:TYR:CE1	1:R:467:GLN:HG3	2.37	0.58
1:T:383:ASN:OD1	1:T:516:ARG:NH2	2.36	0.58
1:e:288:ARG:NE	1:e:290:HIS:HE1	2.01	0.58
1:j:383:ASN:OD1	1:j:516:ARG:NH2	2.36	0.58
1:k:355:VAL:H	1:k:647:GLN:NE2	2.01	0.58
1:m:355:VAL:H	1:m:647:GLN:NE2	2.02	0.58
1:r:445:TYR:CE1	1:r:467:GLN:HG3	2.37	0.58
1:w:355:VAL:H	1:w:647:GLN:NE2	2.01	0.58
1:x:383:ASN:OD1	1:x:516:ARG:NH2	2.36	0.58
1:1:288:ARG:NE	1:1:290:HIS:HE1	2.01	0.58
1:5:288:ARG:NE	1:5:290:HIS:HE1	2.01	0.58
1:7:288:ARG:NE	1:7:290:HIS:HE1	2.01	0.58
1:A:355:VAL:H	1:A:647:GLN:NE2	2.02	0.58
1:A:373:MET:HE3	1:E:663:PHE:HA	1.84	0.58
1:B:663:PHE:HA	1:C:373:MET:HE3	1.85	0.58
1:J:355:VAL:H	1:J:647:GLN:NE2	2.02	0.58
1:M:373:MET:HE3	1:N:663:PHE:HA	1.85	0.58
1:O:399:TYR:OH	1:d:297:ASP:OD2	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:383:ASN:OD1	1:P:516:ARG:NH2	2.36	0.58
1:S:373:MET:HE3	1:d:663:PHE:HA	1.85	0.58
1:V:445:TYR:CE1	1:V:467:GLN:HG3	2.37	0.58
1:X:297:ASP:OD2	1:Y:399:TYR:OH	2.21	0.58
1:Y:288:ARG:NE	1:Y:290:HIS:HE1	2.01	0.58
1:c:288:ARG:NE	1:c:290:HIS:HE1	2.01	0.58
1:p:373:MET:HE3	1:q:663:PHE:HA	1.85	0.58
1:p:399:TYR:OH	1:6:297:ASP:OD2	2.21	0.58
1:2:355:VAL:H	1:2:647:GLN:NE2	2.02	0.58
1:3:288:ARG:NE	1:3:290:HIS:HE1	2.01	0.58
1:D:288:ARG:NE	1:D:290:HIS:HE1	2.01	0.58
1:F:288:ARG:NE	1:F:290:HIS:HE1	2.01	0.58
1:H:663:PHE:HA	1:Z:373:MET:HE3	1.85	0.58
1:J:288:ARG:NE	1:J:290:HIS:HE1	2.01	0.58
1:M:663:PHE:HA	1:c:373:MET:HE3	1.85	0.58
1:N:288:ARG:NE	1:N:290:HIS:HE1	2.01	0.58
1:P:355:VAL:H	1:P:647:GLN:NE2	2.01	0.58
1:P:373:MET:HE3	1:Q:663:PHE:HA	1.85	0.58
1:R:663:PHE:HA	1:V:373:MET:HE3	1.85	0.58
1:V:288:ARG:NE	1:V:290:HIS:HE1	2.01	0.58
1:a:288:ARG:NE	1:a:290:HIS:HE1	2.01	0.58
1:i:288:ARG:NE	1:i:290:HIS:HE1	2.01	0.58
1:j:355:VAL:H	1:j:647:GLN:NE2	2.02	0.58
1:j:663:PHE:HA	1:l:373:MET:HE3	1.85	0.58
1:p:288:ARG:NE	1:p:290:HIS:HE1	2.01	0.58
1:p:663:PHE:HA	1:6:373:MET:HE3	1.85	0.58
1:q:288:ARG:NE	1:q:290:HIS:HE1	2.01	0.58
1:y:445:TYR:CE1	1:y:467:GLN:HG3	2.37	0.58
1:z:355:VAL:H	1:z:647:GLN:NE2	2.02	0.58
1:z:399:TYR:OH	1:4:297:ASP:OD2	2.21	0.58
1:2:288:ARG:NE	1:2:290:HIS:HE1	2.01	0.58
1:5:663:PHE:HA	1:8:373:MET:HE3	1.85	0.58
1:F:445:TYR:CE1	1:F:467:GLN:HG3	2.37	0.58
1:L:355:VAL:H	1:L:647:GLN:NE2	2.02	0.58
1:O:373:MET:HE3	1:P:663:PHE:HA	1.85	0.58
1:O:564:GLU:OE2	1:O:614:TYR:OH	2.20	0.58
1:R:288:ARG:NE	1:R:290:HIS:HE1	2.01	0.58
1:Y:373:MET:HE3	1:4:663:PHE:HA	1.85	0.58
1:Z:399:TYR:OH	1:a:297:ASP:OD2	2.21	0.58
1:Z:663:PHE:HA	1:a:373:MET:HE3	1.85	0.58
1:e:355:VAL:H	1:e:647:GLN:NE2	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:373:MET:HE3	1:i:663:PHE:HA	1.85	0.58
1:j:373:MET:HE3	1:x:663:PHE:HA	1.85	0.58
1:k:663:PHE:HA	1:w:373:MET:HE3	1.85	0.58
1:l:399:TYR:OH	1:n:297:ASP:OD2	2.21	0.58
1:l:564:GLU:OE2	1:l:614:TYR:OH	2.20	0.58
1:n:663:PHE:HA	1:r:373:MET:HE3	1.85	0.58
1:K:297:ASP:OD2	1:L:399:TYR:OH	2.21	0.58
1:K:355:VAL:H	1:K:647:GLN:NE2	2.01	0.58
1:K:663:PHE:HA	1:7:373:MET:HE3	1.85	0.58
1:R:383:ASN:OD1	1:R:516:ARG:NH2	2.36	0.58
1:S:355:VAL:H	1:S:647:GLN:NE2	2.01	0.58
1:T:399:TYR:OH	1:i:297:ASP:OD2	2.20	0.58
1:b:383:ASN:OD1	1:b:516:ARG:NH2	2.36	0.58
1:f:383:ASN:OD1	1:f:516:ARG:NH2	2.36	0.58
1:p:355:VAL:H	1:p:647:GLN:NE2	2.02	0.58
1:q:297:ASP:OD2	1:y:399:TYR:OH	2.21	0.58
1:q:383:ASN:OD1	1:q:516:ARG:NH2	2.36	0.58
1:q:703:THR:CG2	1:x:701:GLN:N	2.50	0.58
1:D:663:PHE:HA	1:E:373:MET:HE3	1.85	0.58
1:E:288:ARG:NE	1:E:290:HIS:HE1	2.01	0.58
1:F:663:PHE:HA	1:R:373:MET:HE3	1.85	0.58
1:M:383:ASN:OD1	1:M:516:ARG:NH2	2.35	0.58
1:S:288:ARG:NE	1:S:290:HIS:HE1	2.01	0.58
1:V:355:VAL:H	1:V:647:GLN:NE2	2.02	0.58
1:c:355:VAL:H	1:c:647:GLN:NE2	2.02	0.58
1:r:355:VAL:H	1:r:647:GLN:NE2	2.01	0.58
1:u:355:VAL:H	1:u:647:GLN:NE2	2.02	0.58
1:y:288:ARG:NE	1:y:290:HIS:HE1	2.01	0.58
1:3:297:ASP:OD2	1:8:399:TYR:OH	2.21	0.58
1:3:373:MET:HE3	1:8:663:PHE:HA	1.85	0.58
1:F:399:TYR:OH	1:R:297:ASP:OD2	2.21	0.58
1:I:355:VAL:H	1:I:647:GLN:NE2	2.02	0.58
1:Q:355:VAL:H	1:Q:647:GLN:NE2	2.02	0.58
1:W:355:VAL:H	1:W:647:GLN:NE2	2.01	0.58
1:Y:564:GLU:OE2	1:Y:614:TYR:OH	2.20	0.58
1:e:373:MET:HE3	1:h:663:PHE:HA	1.85	0.58
1:h:288:ARG:NE	1:h:290:HIS:HE1	2.01	0.58
1:o:383:ASN:OD1	1:o:516:ARG:NH2	2.36	0.58
1:t:564:GLU:OE2	1:t:614:TYR:OH	2.20	0.58
1:x:355:VAL:H	1:x:647:GLN:NE2	2.02	0.58
1:4:355:VAL:H	1:4:647:GLN:NE2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:355:VAL:H	1:5:647:GLN:NE2	2.01	0.58
1:G:297:ASP:OD2	1:W:399:TYR:OH	2.21	0.58
1:G:564:GLU:OE2	1:G:614:TYR:OH	2.20	0.58
1:I:288:ARG:NE	1:I:290:HIS:HE1	2.01	0.58
1:J:373:MET:HE3	1:a:663:PHE:HA	1.85	0.58
1:L:288:ARG:NE	1:L:290:HIS:HE1	2.01	0.58
1:N:297:ASP:OD2	1:m:399:TYR:OH	2.20	0.58
1:X:383:ASN:OD1	1:X:516:ARG:NH2	2.36	0.58
1:Z:355:VAL:H	1:Z:647:GLN:NE2	2.02	0.58
1:d:288:ARG:NE	1:d:290:HIS:HE1	2.01	0.58
1:f:288:ARG:NE	1:f:290:HIS:HE1	2.01	0.58
1:q:373:MET:HE3	1:y:663:PHE:HA	1.85	0.58
1:r:288:ARG:NE	1:r:290:HIS:HE1	2.01	0.58
1:v:297:ASP:OD2	1:w:399:TYR:OH	2.21	0.58
1:v:373:MET:HE3	1:w:663:PHE:HA	1.85	0.58
1:w:288:ARG:NE	1:w:290:HIS:HE1	2.01	0.58
1:z:288:ARG:NE	1:z:290:HIS:HE1	2.01	0.58
1:6:355:VAL:H	1:6:647:GLN:NE2	2.01	0.58
1:7:564:GLU:OE2	1:7:614:TYR:OH	2.21	0.58
1:L:373:MET:HE3	1:b:663:PHE:HA	1.85	0.57
1:M:288:ARG:NE	1:M:290:HIS:HE1	2.01	0.57
1:N:355:VAL:H	1:N:647:GLN:NE2	2.01	0.57
1:O:297:ASP:OD2	1:P:399:TYR:OH	2.21	0.57
1:U:373:MET:HE3	1:e:663:PHE:HA	1.85	0.57
1:V:399:TYR:OH	1:W:297:ASP:OD2	2.21	0.57
1:c:663:PHE:HA	1:s:373:MET:HE3	1.85	0.57
1:g:663:PHE:HA	1:k:373:MET:HE3	1.86	0.57
1:h:383:ASN:OD1	1:h:516:ARG:NH2	2.36	0.57
1:i:355:VAL:H	1:i:647:GLN:NE2	2.01	0.57
1:p:297:ASP:OD2	1:q:399:TYR:OH	2.21	0.57
1:s:355:VAL:H	1:s:647:GLN:HE22	1.49	0.57
1:t:297:ASP:OD2	1:6:399:TYR:OH	2.21	0.57
1:8:355:VAL:H	1:8:647:GLN:NE2	2.02	0.57
1:F:373:MET:HE3	1:G:663:PHE:HA	1.85	0.57
1:T:297:ASP:OD2	1:U:399:TYR:OH	2.21	0.57
1:b:288:ARG:NE	1:b:290:HIS:HE1	2.01	0.57
1:f:353:PRO:HB3	1:g:430:GLN:HE22	1.69	0.57
1:f:663:PHE:HA	1:z:373:MET:HE3	1.85	0.57
1:h:355:VAL:H	1:h:647:GLN:NE2	2.02	0.57
1:j:399:TYR:OH	1:l:297:ASP:OD2	2.21	0.57
1:t:663:PHE:HA	1:y:373:MET:HE3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:373:MET:HE3	1:3:663:PHE:HA	1.85	0.57
1:4:288:ARG:NE	1:4:290:HIS:HE1	2.01	0.57
1:A:399:TYR:OH	1:B:297:ASP:OD2	2.22	0.57
1:M:355:VAL:H	1:M:647:GLN:NE2	2.02	0.57
1:O:355:VAL:H	1:O:647:GLN:NE2	2.02	0.57
1:n:288:ARG:NE	1:n:290:HIS:HE1	2.01	0.57
1:u:288:ARG:NE	1:u:290:HIS:HE1	2.01	0.57
1:x:288:ARG:NE	1:x:290:HIS:HE1	2.01	0.57
1:3:355:VAL:H	1:3:647:GLN:NE2	2.01	0.57
1:K:288:ARG:NE	1:K:290:HIS:HE1	2.01	0.57
1:Q:288:ARG:NE	1:Q:290:HIS:HE1	2.01	0.57
1:U:355:VAL:H	1:U:647:GLN:HE22	1.49	0.57
1:b:373:MET:HE3	1:o:663:PHE:HA	1.85	0.57
1:l:288:ARG:NE	1:l:290:HIS:HE1	2.01	0.57
1:l:355:VAL:H	1:l:647:GLN:NE2	2.01	0.57
1:n:564:GLU:OE2	1:n:614:TYR:OH	2.20	0.57
1:r:399:TYR:OH	1:x:297:ASP:OD2	2.20	0.57
1:O:288:ARG:NE	1:O:290:HIS:HE1	2.01	0.57
1:R:399:TYR:OH	1:V:297:ASP:OD2	2.21	0.57
1:X:663:PHE:HA	1:f:373:MET:HE3	1.85	0.57
1:a:355:VAL:H	1:a:647:GLN:NE2	2.01	0.57
1:d:564:GLU:OE2	1:d:614:TYR:OH	2.20	0.57
1:i:703:THR:HG1	1:l:703:THR:HG1	1.53	0.57
1:q:355:VAL:H	1:q:647:GLN:NE2	2.02	0.57
1:H:226:SER:HG	1:H:319:ASN:H	1.49	0.57
1:H:355:VAL:H	1:H:647:GLN:NE2	2.01	0.57
1:R:355:VAL:H	1:R:647:GLN:NE2	2.01	0.57
1:n:355:VAL:H	1:n:647:GLN:NE2	2.01	0.57
1:r:663:PHE:HA	1:x:373:MET:HE3	1.84	0.57
1:C:355:VAL:H	1:C:647:GLN:NE2	2.02	0.57
1:Q:297:ASP:OD2	1:S:399:TYR:OH	2.21	0.57
1:g:355:VAL:H	1:g:647:GLN:NE2	2.02	0.57
1:q:415:TYR:OH	1:q:643:HIS:O	2.23	0.57
1:5:226:SER:HG	1:5:319:ASN:H	1.49	0.57
1:7:355:VAL:H	1:7:647:GLN:NE2	2.01	0.57
1:Q:373:MET:HE3	1:S:663:PHE:HA	1.85	0.57
1:R:415:TYR:OH	1:R:643:HIS:O	2.23	0.57
1:K:564:GLU:OE2	1:K:614:TYR:OH	2.20	0.57
1:M:415:TYR:OH	1:M:643:HIS:O	2.23	0.57
1:P:288:ARG:NE	1:P:290:HIS:HE1	2.01	0.57
1:d:355:VAL:H	1:d:647:GLN:NE2	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:297:ASP:OD2	1:7:399:TYR:OH	2.21	0.57
1:o:355:VAL:H	1:o:647:GLN:NE2	2.01	0.57
1:E:353:PRO:HB3	1:F:430:GLN:HE22	1.70	0.56
1:Y:355:VAL:H	1:Y:647:GLN:NE2	2.01	0.56
1:k:415:TYR:OH	1:k:643:HIS:O	2.23	0.56
1:D:415:TYR:OH	1:D:643:HIS:O	2.23	0.56
1:M:353:PRO:HB3	1:b:430:GLN:HE22	1.71	0.56
1:T:353:PRO:HB3	1:l:430:GLN:HE22	1.70	0.56
1:X:355:VAL:H	1:X:647:GLN:NE2	2.02	0.56
1:h:415:TYR:OH	1:h:643:HIS:O	2.23	0.56
1:j:288:ARG:NE	1:j:290:HIS:HE1	2.01	0.56
1:w:353:PRO:HB3	1:y:430:GLN:HE22	1.71	0.56
1:4:564:GLU:OE2	1:4:614:TYR:OH	2.20	0.56
1:A:297:ASP:OD2	1:E:399:TYR:OH	2.22	0.56
1:O:353:PRO:HB3	1:n:430:GLN:HE22	1.71	0.56
1:T:430:GLN:HE22	1:d:353:PRO:HB3	1.70	0.56
1:Y:415:TYR:OH	1:Y:643:HIS:O	2.23	0.56
1:d:430:GLN:HE22	1:l:353:PRO:HB3	1.71	0.56
1:f:430:GLN:HE22	1:h:353:PRO:HB3	1.71	0.56
1:q:353:PRO:HB3	1:s:430:GLN:HE22	1.71	0.56
1:t:355:VAL:H	1:t:647:GLN:NE2	2.01	0.56
1:7:415:TYR:OH	1:7:643:HIS:O	2.23	0.56
1:G:355:VAL:H	1:G:647:GLN:NE2	2.02	0.56
1:H:353:PRO:HB3	1:Y:430:GLN:HE22	1.71	0.56
1:K:430:GLN:HE22	1:a:353:PRO:HB3	1.71	0.56
1:R:353:PRO:HB3	1:U:430:GLN:HE22	1.71	0.56
1:j:430:GLN:HE22	1:k:353:PRO:HB3	1.71	0.56
1:z:430:GLN:HE22	1:1:353:PRO:HB3	1.71	0.56
1:3:353:PRO:HB3	1:4:430:GLN:HE22	1.71	0.56
1:A:360:HIS:HA	1:I:442:GLN:HA	1.88	0.56
1:B:353:PRO:HB3	1:L:430:GLN:HE22	1.71	0.56
1:V:430:GLN:HE22	1:e:353:PRO:HB3	1.71	0.56
1:c:564:GLU:OE2	1:c:614:TYR:OH	2.20	0.56
1:i:283:TYR:HB3	1:i:649:LEU:HD23	1.88	0.56
1:i:564:GLU:OE2	1:i:614:TYR:OH	2.20	0.56
1:D:430:GLN:HE22	1:N:353:PRO:HB3	1.71	0.56
1:E:283:TYR:HB3	1:E:649:LEU:HD23	1.88	0.56
1:N:283:TYR:HB3	1:N:649:LEU:HD23	1.88	0.56
1:N:564:GLU:OE2	1:N:614:TYR:OH	2.21	0.56
1:S:430:GLN:HE22	1:U:353:PRO:HB3	1.71	0.56
1:Y:283:TYR:HB3	1:Y:649:LEU:HD23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:564:GLU:OE2	1:e:614:TYR:OH	2.20	0.56
1:i:353:PRO:HB3	1:k:430:GLN:HE22	1.71	0.56
1:r:430:GLN:HE22	1:s:353:PRO:HB3	1.71	0.56
1:x:430:GLN:HE22	1:y:353:PRO:HB3	1.70	0.56
1:5:353:PRO:HB3	1:7:430:GLN:HE22	1.71	0.56
1:7:283:TYR:HB3	1:7:649:LEU:HD23	1.88	0.56
1:A:353:PRO:HB3	1:I:430:GLN:NE2	2.21	0.56
1:F:283:TYR:HB3	1:F:649:LEU:HD23	1.88	0.56
1:J:283:TYR:HB3	1:J:649:LEU:HD23	1.88	0.56
1:O:430:GLN:HE22	1:m:353:PRO:HB3	1.71	0.56
1:X:353:PRO:HB3	1:e:430:GLN:HE22	1.71	0.56
1:c:353:PRO:HB3	1:p:430:GLN:HE22	1.71	0.56
1:c:430:GLN:HE22	1:o:353:PRO:HB3	1.71	0.56
1:m:430:GLN:HE22	1:n:353:PRO:HB3	1.71	0.56
1:t:430:GLN:HE22	1:u:353:PRO:HB3	1.71	0.56
1:v:242:THR:HG21	1:v:293:PHE:CE1	2.41	0.56
1:2:283:TYR:HB3	1:2:649:LEU:HD23	1.88	0.56
1:D:353:PRO:HB3	1:P:430:GLN:HE22	1.71	0.56
1:J:415:TYR:OH	1:J:643:HIS:O	2.23	0.56
1:N:430:GLN:HE22	1:P:353:PRO:HB3	1.71	0.56
1:Q:703:THR:HG1	1:R:703:THR:HG1	1.54	0.56
1:R:242:THR:HG21	1:R:293:PHE:CE1	2.41	0.56
1:h:283:TYR:HB3	1:h:649:LEU:HD23	1.88	0.56
1:m:242:THR:HG21	1:m:293:PHE:CE1	2.41	0.56
1:q:242:THR:HG21	1:q:293:PHE:CE1	2.41	0.56
1:w:283:TYR:HB3	1:w:649:LEU:HD23	1.88	0.56
1:y:283:TYR:HB3	1:y:649:LEU:HD23	1.88	0.56
1:A:242:THR:HG21	1:A:293:PHE:CE1	2.41	0.56
1:B:242:THR:HG21	1:B:293:PHE:CE1	2.41	0.56
1:C:430:GLN:HE22	1:b:353:PRO:HB3	1.71	0.56
1:M:283:TYR:HB3	1:M:649:LEU:HD23	1.88	0.56
1:T:242:THR:HG21	1:T:293:PHE:CE1	2.41	0.56
1:V:353:PRO:HB3	1:X:430:GLN:HE22	1.71	0.56
1:X:242:THR:HG21	1:X:293:PHE:CE1	2.41	0.56
1:c:472:THR:HB	1:c:475:GLU:OE1	2.06	0.56
1:e:472:THR:HB	1:e:475:GLU:OE1	2.06	0.56
1:g:659:PRO:HG2	1:k:251:PRO:HB3	1.88	0.56
1:m:283:TYR:HB3	1:m:649:LEU:HD23	1.88	0.56
1:m:472:THR:HB	1:m:475:GLU:OE1	2.06	0.56
1:o:242:THR:HG21	1:o:293:PHE:CE1	2.41	0.56
1:s:472:THR:HB	1:s:475:GLU:OE1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:472:THR:HB	1:1:475:GLU:OE1	2.06	0.56
1:A:415:TYR:OH	1:A:643:HIS:O	2.23	0.56
1:B:472:THR:HB	1:B:475:GLU:OE1	2.06	0.56
1:F:415:TYR:OH	1:F:643:HIS:O	2.23	0.56
1:F:472:THR:HB	1:F:475:GLU:OE1	2.06	0.56
1:I:472:THR:HB	1:I:475:GLU:OE1	2.06	0.56
1:K:242:THR:HG21	1:K:293:PHE:CE1	2.41	0.56
1:K:353:PRO:HB3	1:8:430:GLN:HE22	1.71	0.56
1:M:472:THR:HB	1:M:475:GLU:OE1	2.06	0.56
1:T:283:TYR:HB3	1:T:649:LEU:HD23	1.88	0.56
1:T:472:THR:HB	1:T:475:GLU:OE1	2.06	0.56
1:U:472:THR:HB	1:U:475:GLU:OE1	2.06	0.56
1:b:242:THR:HG21	1:b:293:PHE:CE1	2.41	0.56
1:g:353:PRO:HB3	1:h:430:GLN:HE22	1.70	0.56
1:h:472:THR:HB	1:h:475:GLU:OE1	2.06	0.56
1:i:430:GLN:HE22	1:j:353:PRO:HB3	1.71	0.56
1:u:430:GLN:HE22	1:v:353:PRO:HB3	1.71	0.56
1:u:472:THR:HB	1:u:475:GLU:OE1	2.06	0.56
1:y:415:TYR:OH	1:y:643:HIS:O	2.23	0.56
1:1:242:THR:HG21	1:1:293:PHE:CE1	2.41	0.56
1:2:415:TYR:OH	1:2:643:HIS:O	2.23	0.56
1:2:472:THR:HB	1:2:475:GLU:OE1	2.06	0.56
1:4:242:THR:HG21	1:4:293:PHE:CE1	2.41	0.56
1:C:472:THR:HB	1:C:475:GLU:OE1	2.06	0.55
1:J:472:THR:HB	1:J:475:GLU:OE1	2.06	0.55
1:L:472:THR:HB	1:L:475:GLU:OE1	2.06	0.55
1:M:242:THR:HG21	1:M:293:PHE:CE1	2.41	0.55
1:V:283:TYR:HB3	1:V:649:LEU:HD23	1.88	0.55
1:a:283:TYR:HB3	1:a:649:LEU:HD23	1.88	0.55
1:e:415:TYR:OH	1:e:643:HIS:O	2.23	0.55
1:f:242:THR:HG21	1:f:293:PHE:CE1	2.41	0.55
1:f:472:THR:HB	1:f:475:GLU:OE1	2.06	0.55
1:g:472:THR:HB	1:g:475:GLU:OE1	2.06	0.55
1:j:472:THR:HB	1:j:475:GLU:OE1	2.06	0.55
1:y:472:THR:HB	1:y:475:GLU:OE1	2.06	0.55
1:3:242:THR:HG21	1:3:293:PHE:CE1	2.41	0.55
1:3:283:TYR:HB3	1:3:649:LEU:HD23	1.88	0.55
1:5:242:THR:HG21	1:5:293:PHE:CE1	2.41	0.55
1:5:415:TYR:OH	1:5:643:HIS:O	2.23	0.55
1:B:283:TYR:HB3	1:B:649:LEU:HD23	1.88	0.55
1:E:472:THR:HB	1:E:475:GLU:OE1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:430:GLN:HE22	1:I:353:PRO:HB3	1.71	0.55
1:H:242:THR:HG21	1:H:293:PHE:CE1	2.41	0.55
1:O:612:ASP:OD1	1:O:613:VAL:N	2.40	0.55
1:P:472:THR:HB	1:P:475:GLU:OE1	2.06	0.55
1:V:472:THR:HB	1:V:475:GLU:OE1	2.06	0.55
1:Z:430:GLN:HE22	1:4:353:PRO:HB3	1.71	0.55
1:Z:472:THR:HB	1:Z:475:GLU:OE1	2.06	0.55
1:a:242:THR:HG21	1:a:293:PHE:CE1	2.41	0.55
1:c:242:THR:HG21	1:c:293:PHE:CE1	2.41	0.55
1:f:283:TYR:HB3	1:f:649:LEU:HD23	1.88	0.55
1:h:242:THR:HG21	1:h:293:PHE:CE1	2.41	0.55
1:i:242:THR:HG21	1:i:293:PHE:CE1	2.41	0.55
1:k:472:THR:HB	1:k:475:GLU:OE1	2.06	0.55
1:p:283:TYR:HB3	1:p:649:LEU:HD23	1.88	0.55
1:t:251:PRO:HB3	1:6:659:PRO:HG2	1.89	0.55
1:z:472:THR:HB	1:z:475:GLU:OE1	2.06	0.55
1:1:283:TYR:HB3	1:1:649:LEU:HD23	1.88	0.55
1:7:242:THR:HG21	1:7:293:PHE:CE1	2.41	0.55
1:8:415:TYR:OH	1:8:643:HIS:O	2.23	0.55
1:D:472:THR:HB	1:D:475:GLU:OE1	2.06	0.55
1:H:415:TYR:OH	1:H:643:HIS:O	2.23	0.55
1:I:283:TYR:HB3	1:I:649:LEU:HD23	1.88	0.55
1:N:242:THR:HG21	1:N:293:PHE:CE1	2.41	0.55
1:O:242:THR:HG21	1:O:293:PHE:CE1	2.41	0.55
1:V:415:TYR:OH	1:V:643:HIS:O	2.23	0.55
1:Y:242:THR:HG21	1:Y:293:PHE:CE1	2.41	0.55
1:Y:472:THR:HB	1:Y:475:GLU:OE1	2.06	0.55
1:b:283:TYR:HB3	1:b:649:LEU:HD23	1.88	0.55
1:b:472:THR:HB	1:b:475:GLU:OE1	2.06	0.55
1:c:415:TYR:OH	1:c:643:HIS:O	2.23	0.55
1:e:242:THR:HG21	1:e:293:PHE:CE1	2.41	0.55
1:l:242:THR:HG21	1:l:293:PHE:CE1	2.41	0.55
1:l:612:ASP:OD1	1:l:613:VAL:N	2.40	0.55
1:n:415:TYR:OH	1:n:643:HIS:O	2.23	0.55
1:p:415:TYR:OH	1:p:643:HIS:O	2.23	0.55
1:u:283:TYR:HB3	1:u:649:LEU:HD23	1.88	0.55
1:x:242:THR:HG21	1:x:293:PHE:CE1	2.41	0.55
1:6:472:THR:HB	1:6:475:GLU:OE1	2.06	0.55
1:8:226:SER:HG	1:8:319:ASN:H	1.49	0.55
1:8:472:THR:HB	1:8:475:GLU:OE1	2.06	0.55
1:G:251:PRO:HB3	1:W:659:PRO:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:283:TYR:HB3	1:H:649:LEU:HD23	1.88	0.55
1:L:283:TYR:HB3	1:L:649:LEU:HD23	1.88	0.55
1:O:472:THR:HB	1:O:475:GLU:OE1	2.06	0.55
1:Q:242:THR:HG21	1:Q:293:PHE:CE1	2.41	0.55
1:W:472:THR:HB	1:W:475:GLU:OE1	2.06	0.55
1:Z:415:TYR:OH	1:Z:643:HIS:O	2.23	0.55
1:a:472:THR:HB	1:a:475:GLU:OE1	2.06	0.55
1:k:283:TYR:HB3	1:k:649:LEU:HD23	1.88	0.55
1:o:415:TYR:OH	1:o:643:HIS:O	2.23	0.55
1:o:430:GLN:HE22	1:p:353:PRO:HB3	1.71	0.55
1:p:472:THR:HB	1:p:475:GLU:OE1	2.06	0.55
1:t:283:TYR:HB3	1:t:649:LEU:HD23	1.88	0.55
1:v:564:GLU:OE2	1:v:614:TYR:OH	2.20	0.55
1:w:415:TYR:OH	1:w:643:HIS:O	2.23	0.55
1:w:472:THR:HB	1:w:475:GLU:OE1	2.06	0.55
1:z:283:TYR:HB3	1:z:649:LEU:HD23	1.88	0.55
1:3:472:THR:HB	1:3:475:GLU:OE1	2.06	0.55
1:5:283:TYR:HB3	1:5:649:LEU:HD23	1.88	0.55
1:7:472:THR:HB	1:7:475:GLU:OE1	2.06	0.55
1:C:353:PRO:HB3	1:M:430:GLN:HE22	1.71	0.55
1:D:283:TYR:HB3	1:D:649:LEU:HD23	1.88	0.55
1:F:353:PRO:HB3	1:Q:430:GLN:HE22	1.71	0.55
1:G:283:TYR:HB3	1:G:649:LEU:HD23	1.88	0.55
1:H:659:PRO:HG2	1:Z:251:PRO:HB3	1.89	0.55
1:P:612:ASP:OD1	1:P:613:VAL:N	2.40	0.55
1:W:430:GLN:HE22	1:Y:353:PRO:HB3	1.71	0.55
1:X:415:TYR:OH	1:X:643:HIS:O	2.23	0.55
1:b:612:ASP:OD1	1:b:613:VAL:N	2.40	0.55
1:d:415:TYR:OH	1:d:643:HIS:O	2.23	0.55
1:l:283:TYR:HB3	1:l:649:LEU:HD23	1.88	0.55
1:l:472:THR:HB	1:l:475:GLU:OE1	2.06	0.55
1:v:283:TYR:HB3	1:v:649:LEU:HD23	1.88	0.55
1:y:242:THR:HG21	1:y:293:PHE:CE1	2.41	0.55
1:y:564:GLU:OE2	1:y:614:TYR:OH	2.20	0.55
1:5:659:PRO:HG2	1:8:251:PRO:HB3	1.89	0.55
1:A:283:TYR:HB3	1:A:649:LEU:HD23	1.88	0.55
1:E:415:TYR:OH	1:E:643:HIS:O	2.23	0.55
1:F:242:THR:HG21	1:F:293:PHE:CE1	2.41	0.55
1:L:612:ASP:OD1	1:L:613:VAL:N	2.40	0.55
1:P:242:THR:HG21	1:P:293:PHE:CE1	2.41	0.55
1:Q:472:THR:HB	1:Q:475:GLU:OE1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:612:ASP:OD1	1:S:613:VAL:N	2.40	0.55
1:U:242:THR:HG21	1:U:293:PHE:CE1	2.41	0.55
1:U:612:ASP:OD1	1:U:613:VAL:N	2.40	0.55
1:c:283:TYR:HB3	1:c:649:LEU:HD23	1.88	0.55
1:e:283:TYR:HB3	1:e:649:LEU:HD23	1.88	0.55
1:f:612:ASP:OD1	1:f:613:VAL:N	2.40	0.55
1:j:242:THR:HG21	1:j:293:PHE:CE1	2.41	0.55
1:j:612:ASP:OD1	1:j:613:VAL:N	2.40	0.55
1:r:283:TYR:HB3	1:r:649:LEU:HD23	1.88	0.55
1:r:612:ASP:OD1	1:r:613:VAL:N	2.40	0.55
1:s:612:ASP:OD1	1:s:613:VAL:N	2.40	0.55
1:v:612:ASP:OD1	1:v:613:VAL:N	2.40	0.55
1:8:242:THR:HG21	1:8:293:PHE:CE1	2.41	0.55
1:8:283:TYR:HB3	1:8:649:LEU:HD23	1.88	0.55
1:A:612:ASP:OD1	1:A:613:VAL:N	2.40	0.55
1:D:612:ASP:OD1	1:D:613:VAL:N	2.40	0.55
1:E:242:THR:HG21	1:E:293:PHE:CE1	2.41	0.55
1:G:612:ASP:OD1	1:G:613:VAL:N	2.40	0.55
1:J:242:THR:HG21	1:J:293:PHE:CE1	2.41	0.55
1:N:472:THR:HB	1:N:475:GLU:OE1	2.06	0.55
1:O:283:TYR:HB3	1:O:649:LEU:HD23	1.88	0.55
1:R:659:PRO:HG2	1:V:251:PRO:HB3	1.89	0.55
1:S:283:TYR:HB3	1:S:649:LEU:HD23	1.88	0.55
1:W:242:THR:HG21	1:W:293:PHE:CE1	2.41	0.55
1:Z:283:TYR:HB3	1:Z:649:LEU:HD23	1.88	0.55
1:b:415:TYR:OH	1:b:643:HIS:O	2.23	0.55
1:d:242:THR:HG21	1:d:293:PHE:CE1	2.41	0.55
1:g:242:THR:HG21	1:g:293:PHE:CE1	2.41	0.55
1:i:472:THR:HB	1:i:475:GLU:OE1	2.06	0.55
1:n:242:THR:HG21	1:n:293:PHE:CE1	2.41	0.55
1:p:242:THR:HG21	1:p:293:PHE:CE1	2.41	0.55
1:s:242:THR:HG21	1:s:293:PHE:CE1	2.41	0.55
1:v:251:PRO:HB3	1:w:659:PRO:HG2	1.89	0.55
1:v:659:PRO:HG2	1:1:251:PRO:HB3	1.89	0.55
1:x:472:THR:HB	1:x:475:GLU:OE1	2.06	0.55
1:z:612:ASP:OD1	1:z:613:VAL:N	2.40	0.55
1:2:242:THR:HG21	1:2:293:PHE:CE1	2.41	0.55
1:F:564:GLU:OE2	1:F:614:TYR:OH	2.20	0.55
1:I:242:THR:HG21	1:I:293:PHE:CE1	2.41	0.55
1:K:283:TYR:HB3	1:K:649:LEU:HD23	1.88	0.55
1:L:242:THR:HG21	1:L:293:PHE:CE1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:251:PRO:HB3	1:m:659:PRO:HG2	1.89	0.55
1:V:612:ASP:OD1	1:V:613:VAL:N	2.40	0.55
1:W:612:ASP:OD1	1:W:613:VAL:N	2.40	0.55
1:Z:242:THR:HG21	1:Z:293:PHE:CE1	2.41	0.55
1:Z:659:PRO:HG2	1:a:251:PRO:HB3	1.89	0.55
1:k:612:ASP:OD1	1:k:613:VAL:N	2.40	0.55
1:p:612:ASP:OD1	1:p:613:VAL:N	2.40	0.55
1:p:659:PRO:HG2	1:6:251:PRO:HB3	1.89	0.55
1:s:283:TYR:HB3	1:s:649:LEU:HD23	1.88	0.55
1:t:242:THR:HG21	1:t:293:PHE:CE1	2.41	0.55
1:t:415:TYR:OH	1:t:643:HIS:O	2.23	0.55
1:t:612:ASP:OD1	1:t:613:VAL:N	2.40	0.55
1:u:415:TYR:OH	1:u:643:HIS:O	2.23	0.55
1:w:242:THR:HG21	1:w:293:PHE:CE1	2.41	0.55
1:z:242:THR:HG21	1:z:293:PHE:CE1	2.41	0.55
1:3:251:PRO:HB3	1:8:659:PRO:HG2	1.89	0.55
1:4:472:THR:HB	1:4:475:GLU:OE1	2.06	0.55
1:6:242:THR:HG21	1:6:293:PHE:CE1	2.41	0.55
1:6:430:GLN:HE22	1:7:353:PRO:HB3	1.71	0.55
1:6:612:ASP:OD1	1:6:613:VAL:N	2.40	0.55
1:A:487:ARG:HH11	1:I:585:LEU:CD1	2.20	0.55
1:B:659:PRO:HG2	1:C:251:PRO:HB3	1.89	0.55
1:C:242:THR:HG21	1:C:293:PHE:CE1	2.41	0.55
1:G:472:THR:HB	1:G:475:GLU:OE1	2.06	0.55
1:H:472:THR:HB	1:H:475:GLU:OE1	2.06	0.55
1:P:251:PRO:HB3	1:Q:659:PRO:HG2	1.89	0.55
1:P:283:TYR:HB3	1:P:649:LEU:HD23	1.88	0.55
1:U:283:TYR:HB3	1:U:649:LEU:HD23	1.88	0.55
1:e:251:PRO:HB3	1:h:659:PRO:HG2	1.89	0.55
1:f:415:TYR:OH	1:f:643:HIS:O	2.23	0.55
1:k:242:THR:HG21	1:k:293:PHE:CE1	2.41	0.55
1:n:283:TYR:HB3	1:n:649:LEU:HD23	1.88	0.55
1:n:472:THR:HB	1:n:475:GLU:OE1	2.06	0.55
1:s:415:TYR:OH	1:s:643:HIS:O	2.23	0.55
1:t:353:PRO:HB3	1:v:430:GLN:HE22	1.71	0.55
1:t:659:PRO:HG2	1:y:251:PRO:HB3	1.89	0.55
1:u:242:THR:HG21	1:u:293:PHE:CE1	2.41	0.55
1:w:430:GLN:HE22	1:x:353:PRO:HB3	1.71	0.55
1:3:612:ASP:OD1	1:3:613:VAL:N	2.40	0.55
1:4:283:TYR:HB3	1:4:649:LEU:HD23	1.88	0.55
1:6:283:TYR:HB3	1:6:649:LEU:HD23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:701:GLN:N	1:F:703:THR:CG2	2.47	0.55
1:B:430:GLN:HE22	1:J:353:PRO:HB3	1.71	0.55
1:C:659:PRO:HG2	1:D:251:PRO:HB3	1.89	0.55
1:D:242:THR:HG21	1:D:293:PHE:CE1	2.41	0.55
1:E:430:GLN:HE22	1:Q:353:PRO:HB3	1.71	0.55
1:G:242:THR:HG21	1:G:293:PHE:CE1	2.41	0.55
1:G:415:TYR:OH	1:G:643:HIS:O	2.23	0.55
1:K:472:THR:HB	1:K:475:GLU:OE1	2.06	0.55
1:M:612:ASP:OD1	1:M:613:VAL:N	2.40	0.55
1:S:242:THR:HG21	1:S:293:PHE:CE1	2.41	0.55
1:S:472:THR:HB	1:S:475:GLU:OE1	2.06	0.55
1:V:242:THR:HG21	1:V:293:PHE:CE1	2.41	0.55
1:W:283:TYR:HB3	1:W:649:LEU:HD23	1.88	0.55
1:W:415:TYR:OH	1:W:643:HIS:O	2.23	0.55
1:X:472:THR:HB	1:X:475:GLU:OE1	2.06	0.55
1:Z:353:PRO:HB3	1:3:430:GLN:HE22	1.71	0.55
1:a:612:ASP:OD1	1:a:613:VAL:N	2.40	0.55
1:d:283:TYR:HB3	1:d:649:LEU:HD23	1.88	0.55
1:f:353:PRO:HB3	1:g:430:GLN:NE2	2.22	0.55
1:g:612:ASP:OD1	1:g:613:VAL:N	2.40	0.55
1:o:472:THR:HB	1:o:475:GLU:OE1	2.06	0.55
1:p:251:PRO:HB3	1:q:659:PRO:HG2	1.89	0.55
1:q:612:ASP:OD1	1:q:613:VAL:N	2.40	0.55
1:r:472:THR:HB	1:r:475:GLU:OE1	2.06	0.55
1:t:472:THR:HB	1:t:475:GLU:OE1	2.06	0.55
1:4:612:ASP:OD1	1:4:613:VAL:N	2.40	0.55
1:A:251:PRO:HB3	1:E:659:PRO:HG2	1.89	0.54
1:C:612:ASP:OD1	1:C:613:VAL:N	2.40	0.54
1:H:564:GLU:OE2	1:H:614:TYR:OH	2.20	0.54
1:H:612:ASP:OD1	1:H:613:VAL:N	2.40	0.54
1:I:415:TYR:OH	1:I:643:HIS:O	2.23	0.54
1:J:251:PRO:HB3	1:a:659:PRO:HG2	1.89	0.54
1:K:612:ASP:OD1	1:K:613:VAL:N	2.40	0.54
1:O:251:PRO:HB3	1:P:659:PRO:HG2	1.89	0.54
1:R:612:ASP:OD1	1:R:613:VAL:N	2.40	0.54
1:U:415:TYR:OH	1:U:643:HIS:O	2.23	0.54
1:a:430:GLN:HE22	1:8:353:PRO:HB3	1.71	0.54
1:d:472:THR:HB	1:d:475:GLU:OE1	2.06	0.54
1:d:612:ASP:OD1	1:d:613:VAL:N	2.40	0.54
1:j:251:PRO:HB3	1:x:659:PRO:HG2	1.89	0.54
1:j:283:TYR:HB3	1:j:649:LEU:HD23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:242:THR:HG21	1:r:293:PHE:CE1	2.41	0.54
1:1:430:GLN:HE22	1:2:353:PRO:HB3	1.71	0.54
1:2:251:PRO:HB3	1:3:659:PRO:HG2	1.89	0.54
1:5:472:THR:HB	1:5:475:GLU:OE1	2.06	0.54
1:6:415:TYR:OH	1:6:643:HIS:O	2.23	0.54
1:F:251:PRO:HB3	1:G:659:PRO:HG2	1.89	0.54
1:F:612:ASP:OD1	1:F:613:VAL:N	2.40	0.54
1:I:612:ASP:OD1	1:I:613:VAL:N	2.40	0.54
1:M:659:PRO:HG2	1:c:251:PRO:HB3	1.89	0.54
1:X:283:TYR:HB3	1:X:649:LEU:HD23	1.88	0.54
1:j:659:PRO:HG2	1:l:251:PRO:HB3	1.89	0.54
1:n:612:ASP:OD1	1:n:613:VAL:N	2.40	0.54
1:u:612:ASP:OD1	1:u:613:VAL:N	2.40	0.54
1:y:612:ASP:OD1	1:y:613:VAL:N	2.40	0.54
1:5:612:ASP:OD1	1:5:613:VAL:N	2.40	0.54
1:C:283:TYR:HB3	1:C:649:LEU:HD23	1.88	0.54
1:N:612:ASP:OD1	1:N:613:VAL:N	2.40	0.54
1:f:226:SER:HG	1:f:319:ASN:H	1.49	0.54
1:g:283:TYR:HB3	1:g:649:LEU:HD23	1.88	0.54
1:h:612:ASP:OD1	1:h:613:VAL:N	2.40	0.54
1:l:415:TYR:OH	1:l:643:HIS:O	2.23	0.54
1:o:283:TYR:HB3	1:o:649:LEU:HD23	1.88	0.54
1:u:226:SER:HG	1:u:319:ASN:H	1.49	0.54
1:5:564:GLU:OE2	1:5:614:TYR:OH	2.20	0.54
1:E:612:ASP:OD1	1:E:613:VAL:N	2.40	0.54
1:I:226:SER:HG	1:I:319:ASN:H	1.49	0.54
1:L:564:GLU:OE2	1:L:614:TYR:OH	2.20	0.54
1:Q:251:PRO:HB3	1:S:659:PRO:HG2	1.89	0.54
1:T:430:GLN:NE2	1:d:353:PRO:HB3	2.23	0.54
1:T:659:PRO:HG2	1:i:251:PRO:HB3	1.90	0.54
1:h:251:PRO:HB3	1:i:659:PRO:HG2	1.89	0.54
1:i:612:ASP:OD1	1:i:613:VAL:N	2.40	0.54
1:q:472:THR:HB	1:q:475:GLU:OE1	2.06	0.54
1:w:612:ASP:OD1	1:w:613:VAL:N	2.40	0.54
1:R:472:THR:HB	1:R:475:GLU:OE1	2.06	0.54
1:S:251:PRO:HB3	1:d:659:PRO:HG2	1.89	0.54
1:g:353:PRO:HB3	1:h:430:GLN:NE2	2.23	0.54
1:g:415:TYR:OH	1:g:643:HIS:O	2.23	0.54
1:j:415:TYR:OH	1:j:643:HIS:O	2.23	0.54
1:z:353:PRO:HB3	1:2:430:GLN:HE22	1.71	0.54
1:1:612:ASP:OD1	1:1:613:VAL:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:THR:HB	1:A:475:GLU:OE1	2.06	0.54
1:B:612:ASP:OD1	1:B:613:VAL:N	2.40	0.54
1:J:430:GLN:HE22	1:L:353:PRO:HB3	1.71	0.54
1:Q:283:TYR:HB3	1:Q:649:LEU:HD23	1.88	0.54
1:V:659:PRO:HG2	1:W:251:PRO:HB3	1.90	0.54
1:b:226:SER:HG	1:b:319:ASN:H	1.49	0.54
1:c:659:PRO:HG2	1:s:251:PRO:HB3	1.89	0.54
1:e:612:ASP:OD1	1:e:613:VAL:N	2.40	0.54
1:m:251:PRO:HB3	1:s:659:PRO:HG2	1.89	0.54
1:n:659:PRO:HG2	1:r:251:PRO:HB3	1.89	0.54
1:q:283:TYR:HB3	1:q:649:LEU:HD23	1.88	0.54
1:q:430:GLN:HE22	1:r:353:PRO:HB3	1.71	0.54
1:r:659:PRO:HG2	1:x:251:PRO:HB3	1.90	0.54
1:v:415:TYR:OH	1:v:643:HIS:O	2.23	0.54
1:v:472:THR:HB	1:v:475:GLU:OE1	2.06	0.54
1:A:296:ARG:NE	1:F:699:GLU:HG2	2.23	0.54
1:H:430:GLN:HE22	1:W:353:PRO:HB3	1.71	0.54
1:M:251:PRO:HB3	1:N:659:PRO:HG2	1.89	0.54
1:O:415:TYR:OH	1:O:643:HIS:O	2.23	0.54
1:P:564:GLU:OE2	1:P:614:TYR:OH	2.20	0.54
1:R:283:TYR:HB3	1:R:649:LEU:HD23	1.88	0.54
1:R:430:GLN:HE22	1:S:353:PRO:HB3	1.71	0.54
1:v:297:ASP:OD1	1:v:300:ARG:NH1	2.41	0.54
1:x:283:TYR:HB3	1:x:649:LEU:HD23	1.88	0.54
1:x:612:ASP:OD1	1:x:613:VAL:N	2.40	0.54
1:2:564:GLU:OE2	1:2:614:TYR:OH	2.20	0.54
1:A:297:ASP:OD1	1:A:300:ARG:NH1	2.41	0.54
1:C:415:TYR:OH	1:C:643:HIS:O	2.23	0.54
1:D:659:PRO:HG2	1:E:251:PRO:HB3	1.88	0.54
1:E:297:ASP:OD1	1:E:300:ARG:NH1	2.41	0.54
1:Q:612:ASP:OD1	1:Q:613:VAL:N	2.40	0.54
1:X:659:PRO:HG2	1:f:251:PRO:HB3	1.89	0.54
1:Y:297:ASP:OD1	1:Y:300:ARG:NH1	2.41	0.54
1:Y:612:ASP:OD1	1:Y:613:VAL:N	2.40	0.54
1:Z:612:ASP:OD1	1:Z:613:VAL:N	2.40	0.54
1:c:612:ASP:OD1	1:c:613:VAL:N	2.40	0.54
1:k:659:PRO:HG2	1:w:251:PRO:HB3	1.89	0.54
1:w:564:GLU:OE2	1:w:614:TYR:OH	2.20	0.54
1:5:430:GLN:HE22	1:6:353:PRO:HB3	1.71	0.54
1:J:297:ASP:OD1	1:J:300:ARG:NH1	2.41	0.54
1:K:659:PRO:HG2	1:7:251:PRO:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:415:TYR:OH	1:P:643:HIS:O	2.23	0.54
1:T:251:PRO:HB3	1:U:659:PRO:HG2	1.89	0.54
1:U:251:PRO:HB3	1:e:659:PRO:HG2	1.89	0.54
1:V:297:ASP:OD1	1:V:300:ARG:NH1	2.41	0.54
1:V:353:PRO:HB3	1:X:430:GLN:NE2	2.23	0.54
1:Y:251:PRO:HB3	1:4:659:PRO:HG2	1.89	0.54
1:w:297:ASP:OD1	1:w:300:ARG:NH1	2.41	0.54
1:2:297:ASP:OD1	1:2:300:ARG:NH1	2.41	0.54
1:7:297:ASP:OD1	1:7:300:ARG:NH1	2.41	0.54
1:7:612:ASP:OD1	1:7:613:VAL:N	2.40	0.54
1:A:430:GLN:HE22	1:G:353:PRO:HB3	1.72	0.54
1:J:564:GLU:OE2	1:J:614:TYR:OH	2.20	0.54
1:M:297:ASP:OD1	1:M:300:ARG:NH1	2.41	0.54
1:Q:297:ASP:OD1	1:Q:300:ARG:NH1	2.41	0.54
1:Q:560:LEU:HB3	1:Q:727:PRO:HD3	1.91	0.54
1:S:297:ASP:OD1	1:S:300:ARG:NH1	2.41	0.54
1:X:297:ASP:OD1	1:X:300:ARG:NH1	2.41	0.54
1:b:251:PRO:HB3	1:o:659:PRO:HG2	1.89	0.54
1:j:564:GLU:OE2	1:j:614:TYR:OH	2.20	0.54
1:p:297:ASP:OD1	1:p:300:ARG:NH1	2.41	0.54
1:2:612:ASP:OD1	1:2:613:VAL:N	2.40	0.54
1:8:612:ASP:OD1	1:8:613:VAL:N	2.40	0.54
1:E:564:GLU:OE2	1:E:614:TYR:OH	2.20	0.53
1:F:659:PRO:HG2	1:R:251:PRO:HB3	1.89	0.53
1:H:297:ASP:OD1	1:H:300:ARG:NH1	2.41	0.53
1:J:612:ASP:OD1	1:J:613:VAL:N	2.40	0.53
1:Y:560:LEU:HB3	1:Y:727:PRO:HD3	1.91	0.53
1:b:560:LEU:HB3	1:b:727:PRO:HD3	1.91	0.53
1:f:560:LEU:HB3	1:f:727:PRO:HD3	1.91	0.53
1:h:297:ASP:OD1	1:h:300:ARG:NH1	2.41	0.53
1:m:430:GLN:NE2	1:n:353:PRO:HB3	2.23	0.53
1:o:297:ASP:OD1	1:o:300:ARG:NH1	2.41	0.53
1:q:251:PRO:HB3	1:y:659:PRO:HG2	1.89	0.53
1:r:297:ASP:OD1	1:r:300:ARG:NH1	2.41	0.53
1:x:430:GLN:NE2	1:y:353:PRO:HB3	2.23	0.53
1:2:560:LEU:HB3	1:2:727:PRO:HD3	1.91	0.53
1:7:560:LEU:HB3	1:7:727:PRO:HD3	1.91	0.53
1:C:353:PRO:HB3	1:M:430:GLN:NE2	2.24	0.53
1:E:353:PRO:HB3	1:F:430:GLN:NE2	2.23	0.53
1:F:511:TYR:HD2	1:F:520:VAL:HG22	1.74	0.53
1:R:297:ASP:OD1	1:R:300:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:297:ASP:OD1	1:U:300:ARG:NH1	2.41	0.53
1:b:564:GLU:OE2	1:b:614:TYR:OH	2.20	0.53
1:f:659:PRO:HG2	1:z:251:PRO:HB3	1.89	0.53
1:l:560:LEU:HB3	1:l:727:PRO:HD3	1.91	0.53
1:n:297:ASP:OD1	1:n:300:ARG:NH1	2.41	0.53
1:o:430:GLN:NE2	1:p:353:PRO:HB3	2.24	0.53
1:t:297:ASP:OD1	1:t:300:ARG:NH1	2.41	0.53
1:t:430:GLN:NE2	1:u:353:PRO:HB3	2.24	0.53
1:u:251:PRO:HB3	1:2:659:PRO:HG2	1.89	0.53
1:x:297:ASP:OD1	1:x:300:ARG:NH1	2.41	0.53
1:x:560:LEU:HB3	1:x:727:PRO:HD3	1.91	0.53
1:y:511:TYR:HD2	1:y:520:VAL:HG22	1.74	0.53
1:1:297:ASP:OD1	1:1:300:ARG:NH1	2.41	0.53
1:5:297:ASP:OD1	1:5:300:ARG:NH1	2.41	0.53
1:B:297:ASP:OD1	1:B:300:ARG:NH1	2.41	0.53
1:C:511:TYR:HD2	1:C:520:VAL:HG22	1.74	0.53
1:G:560:LEU:HB3	1:G:727:PRO:HD3	1.91	0.53
1:H:353:PRO:HB3	1:Y:430:GLN:NE2	2.24	0.53
1:H:511:TYR:HD2	1:H:520:VAL:HG22	1.74	0.53
1:L:251:PRO:HB3	1:b:659:PRO:HG2	1.89	0.53
1:T:564:GLU:OE2	1:T:614:TYR:OH	2.21	0.53
1:b:297:ASP:OD1	1:b:300:ARG:NH1	2.41	0.53
1:c:297:ASP:OD1	1:c:300:ARG:NH1	2.41	0.53
1:d:297:ASP:OD1	1:d:300:ARG:NH1	2.41	0.53
1:f:297:ASP:OD1	1:f:300:ARG:NH1	2.41	0.53
1:j:297:ASP:OD1	1:j:300:ARG:NH1	2.41	0.53
1:o:251:PRO:HB3	1:7:659:PRO:HG2	1.89	0.53
1:p:511:TYR:HD2	1:p:520:VAL:HG22	1.74	0.53
1:q:297:ASP:OD1	1:q:300:ARG:NH1	2.41	0.53
1:q:430:GLN:NE2	1:r:353:PRO:HB3	2.24	0.53
1:s:297:ASP:OD1	1:s:300:ARG:NH1	2.41	0.53
1:t:353:PRO:HB3	1:v:430:GLN:NE2	2.23	0.53
1:t:560:LEU:HB3	1:t:727:PRO:HD3	1.91	0.53
1:5:511:TYR:HD2	1:5:520:VAL:HG22	1.74	0.53
1:A:659:PRO:HG2	1:B:251:PRO:HB3	1.91	0.53
1:C:430:GLN:NE2	1:b:353:PRO:HB3	2.24	0.53
1:D:297:ASP:OD1	1:D:300:ARG:NH1	2.41	0.53
1:D:511:TYR:HD2	1:D:520:VAL:HG22	1.74	0.53
1:G:297:ASP:OD1	1:G:300:ARG:NH1	2.41	0.53
1:I:251:PRO:HB3	1:J:659:PRO:HG2	1.90	0.53
1:I:297:ASP:OD1	1:I:300:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:430:GLN:NE2	1:L:353:PRO:HB3	2.23	0.53
1:J:560:LEU:HB3	1:J:727:PRO:HD3	1.91	0.53
1:K:251:PRO:HB3	1:L:659:PRO:HG2	1.89	0.53
1:L:297:ASP:OD1	1:L:300:ARG:NH1	2.41	0.53
1:L:511:TYR:HD2	1:L:520:VAL:HG22	1.74	0.53
1:L:560:LEU:HB3	1:L:727:PRO:HD3	1.91	0.53
1:M:511:TYR:HD2	1:M:520:VAL:HG22	1.74	0.53
1:N:297:ASP:OD1	1:N:300:ARG:NH1	2.41	0.53
1:O:560:LEU:HB3	1:O:727:PRO:HD3	1.91	0.53
1:O:659:PRO:HG2	1:d:251:PRO:HB3	1.89	0.53
1:P:297:ASP:OD1	1:P:300:ARG:NH1	2.41	0.53
1:R:430:GLN:NE2	1:S:353:PRO:HB3	2.24	0.53
1:V:511:TYR:HD2	1:V:520:VAL:HG22	1.74	0.53
1:W:511:TYR:HD2	1:W:520:VAL:HG22	1.74	0.53
1:a:297:ASP:OD1	1:a:300:ARG:NH1	2.41	0.53
1:e:297:ASP:OD1	1:e:300:ARG:NH1	2.41	0.53
1:g:511:TYR:HD2	1:g:520:VAL:HG22	1.74	0.53
1:h:511:TYR:HD2	1:h:520:VAL:HG22	1.74	0.53
1:i:297:ASP:OD1	1:i:300:ARG:NH1	2.41	0.53
1:k:511:TYR:HD2	1:k:520:VAL:HG22	1.74	0.53
1:m:560:LEU:HB3	1:m:727:PRO:HD3	1.91	0.53
1:u:297:ASP:OD1	1:u:300:ARG:NH1	2.41	0.53
1:w:353:PRO:HB3	1:y:430:GLN:NE2	2.23	0.53
1:z:297:ASP:OD1	1:z:300:ARG:NH1	2.41	0.53
1:z:430:GLN:NE2	1:1:353:PRO:HB3	2.23	0.53
1:z:560:LEU:HB3	1:z:727:PRO:HD3	1.91	0.53
1:8:297:ASP:OD1	1:8:300:ARG:NH1	2.41	0.53
1:8:511:TYR:HD2	1:8:520:VAL:HG22	1.74	0.53
1:A:560:LEU:HB3	1:A:727:PRO:HD3	1.91	0.53
1:C:297:ASP:OD1	1:C:300:ARG:NH1	2.41	0.53
1:G:430:GLN:NE2	1:I:353:PRO:HB3	2.24	0.53
1:G:703:THR:CG2	1:H:701:GLN:N	2.49	0.53
1:J:511:TYR:HD2	1:J:520:VAL:HG22	1.74	0.53
1:N:511:TYR:HD2	1:N:520:VAL:HG22	1.74	0.53
1:T:560:LEU:HB3	1:T:727:PRO:HD3	1.91	0.53
1:T:612:ASP:OD1	1:T:613:VAL:N	2.40	0.53
1:W:297:ASP:OD1	1:W:300:ARG:NH1	2.41	0.53
1:X:251:PRO:HB3	1:Y:659:PRO:HG2	1.89	0.53
1:Z:297:ASP:OD1	1:Z:300:ARG:NH1	2.41	0.53
1:Z:511:TYR:HD2	1:Z:520:VAL:HG22	1.74	0.53
1:Z:560:LEU:HB3	1:Z:727:PRO:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:701:GLN:N	1:n:703:THR:CG2	2.50	0.53
1:d:703:THR:CG2	1:n:701:GLN:N	2.50	0.53
1:i:511:TYR:HD2	1:i:520:VAL:HG22	1.74	0.53
1:l:659:PRO:HG2	1:n:251:PRO:HB3	1.89	0.53
1:u:659:PRO:HG2	1:5:251:PRO:HB3	1.89	0.53
1:v:560:LEU:HB3	1:v:727:PRO:HD3	1.91	0.53
1:z:353:PRO:HB3	1:2:430:GLN:NE2	2.23	0.53
1:z:511:TYR:HD2	1:z:520:VAL:HG22	1.74	0.53
1:3:297:ASP:OD1	1:3:300:ARG:NH1	2.41	0.53
1:5:353:PRO:HB3	1:7:430:GLN:NE2	2.24	0.53
1:6:297:ASP:OD1	1:6:300:ARG:NH1	2.41	0.53
1:6:511:TYR:HD2	1:6:520:VAL:HG22	1.74	0.53
1:8:560:LEU:HB3	1:8:727:PRO:HD3	1.91	0.53
1:B:353:PRO:HB3	1:L:430:GLN:NE2	2.23	0.53
1:H:487:ARG:HH11	1:Y:585:LEU:CD1	2.22	0.53
1:M:487:ARG:HH11	1:b:585:LEU:CD1	2.22	0.53
1:O:353:PRO:HB3	1:n:430:GLN:NE2	2.23	0.53
1:R:511:TYR:HD2	1:R:520:VAL:HG22	1.74	0.53
1:S:430:GLN:NE2	1:U:353:PRO:HB3	2.23	0.53
1:T:297:ASP:OD1	1:T:300:ARG:NH1	2.41	0.53
1:W:585:LEU:CD1	1:Y:487:ARG:HH11	2.22	0.53
1:k:297:ASP:OD1	1:k:300:ARG:NH1	2.41	0.53
1:m:564:GLU:OE2	1:m:614:TYR:OH	2.20	0.53
1:m:612:ASP:OD1	1:m:613:VAL:N	2.40	0.53
1:o:612:ASP:OD1	1:o:613:VAL:N	2.40	0.53
1:q:511:TYR:HD2	1:q:520:VAL:HG22	1.74	0.53
1:s:560:LEU:HB3	1:s:727:PRO:HD3	1.91	0.53
1:t:703:THR:CG2	1:5:701:GLN:N	2.49	0.53
1:z:659:PRO:HG2	1:4:251:PRO:HB3	1.89	0.53
1:2:511:TYR:HD2	1:2:520:VAL:HG22	1.74	0.53
1:3:564:GLU:OE2	1:3:614:TYR:OH	2.20	0.53
1:5:430:GLN:NE2	1:6:353:PRO:HB3	2.23	0.53
1:5:487:ARG:HH11	1:7:585:LEU:CD1	2.22	0.53
1:6:585:LEU:CD1	1:7:487:ARG:HH11	2.22	0.53
1:N:430:GLN:NE2	1:P:353:PRO:HB3	2.23	0.53
1:U:560:LEU:HB3	1:U:727:PRO:HD3	1.91	0.53
1:X:612:ASP:OD1	1:X:613:VAL:N	2.40	0.53
1:c:430:GLN:NE2	1:o:353:PRO:HB3	2.23	0.53
1:d:511:TYR:HD2	1:d:520:VAL:HG22	1.74	0.53
1:f:585:LEU:CD1	1:h:487:ARG:HH11	2.22	0.53
1:g:297:ASP:OD1	1:g:300:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:585:LEU:CD1	1:j:487:ARG:HH11	2.22	0.53
1:m:297:ASP:OD1	1:m:300:ARG:NH1	2.41	0.53
1:n:511:TYR:HD2	1:n:520:VAL:HG22	1.74	0.53
1:r:430:GLN:NE2	1:s:353:PRO:HB3	2.23	0.53
1:v:287:ASN:O	1:v:618:PRO:HA	2.09	0.53
1:w:430:GLN:NE2	1:x:353:PRO:HB3	2.23	0.53
1:3:487:ARG:HH11	1:4:585:LEU:CD1	2.22	0.53
1:A:287:ASN:O	1:A:618:PRO:HA	2.09	0.53
1:B:430:GLN:NE2	1:J:353:PRO:HB3	2.24	0.53
1:D:585:LEU:CD1	1:N:487:ARG:HH11	2.22	0.53
1:E:430:GLN:NE2	1:Q:353:PRO:HB3	2.23	0.53
1:F:353:PRO:HB3	1:Q:430:GLN:NE2	2.24	0.53
1:H:430:GLN:NE2	1:W:353:PRO:HB3	2.24	0.53
1:K:585:LEU:CD1	1:a:487:ARG:HH11	2.22	0.53
1:L:287:ASN:O	1:L:618:PRO:HA	2.09	0.53
1:M:353:PRO:HB3	1:b:430:GLN:NE2	2.23	0.53
1:N:585:LEU:CD1	1:P:487:ARG:HH11	2.22	0.53
1:O:585:LEU:CD1	1:m:487:ARG:HH11	2.22	0.53
1:S:585:LEU:CD1	1:U:487:ARG:HH11	2.22	0.53
1:T:353:PRO:HB3	1:l:430:GLN:NE2	2.23	0.53
1:X:353:PRO:HB3	1:e:430:GLN:NE2	2.23	0.53
1:b:511:TYR:HD2	1:b:520:VAL:HG22	1.74	0.53
1:c:560:LEU:HB3	1:c:727:PRO:HD3	1.91	0.53
1:d:430:GLN:NE2	1:l:353:PRO:HB3	2.23	0.53
1:f:430:GLN:NE2	1:h:353:PRO:HB3	2.23	0.53
1:m:585:LEU:CD1	1:n:487:ARG:HH11	2.22	0.53
1:p:564:GLU:OE2	1:p:614:TYR:OH	2.20	0.53
1:r:585:LEU:CD1	1:s:487:ARG:HH11	2.22	0.53
1:t:487:ARG:HH11	1:v:585:LEU:CD1	2.22	0.53
1:z:287:ASN:O	1:z:618:PRO:HA	2.09	0.53
1:1:415:TYR:OH	1:1:643:HIS:O	2.23	0.53
1:B:415:TYR:OH	1:B:643:HIS:O	2.23	0.53
1:C:585:LEU:CD1	1:b:487:ARG:HH11	2.22	0.53
1:D:430:GLN:NE2	1:N:353:PRO:HB3	2.24	0.53
1:P:511:TYR:HD2	1:P:520:VAL:HG22	1.74	0.53
1:R:560:LEU:HB3	1:R:727:PRO:HD3	1.90	0.53
1:V:287:ASN:O	1:V:618:PRO:HA	2.09	0.53
1:X:487:ARG:HH11	1:e:585:LEU:CD1	2.22	0.53
1:a:511:TYR:HD2	1:a:520:VAL:HG22	1.74	0.53
1:a:564:GLU:OE2	1:a:614:TYR:OH	2.20	0.53
1:d:585:LEU:CD1	1:l:487:ARG:HH11	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:560:LEU:HB3	1:e:727:PRO:HD3	1.91	0.53
1:i:353:PRO:HB3	1:k:430:GLN:NE2	2.24	0.53
1:i:430:GLN:NE2	1:j:353:PRO:HB3	2.24	0.53
1:i:487:ARG:HH11	1:k:585:LEU:CD1	2.22	0.53
1:p:287:ASN:O	1:p:618:PRO:HA	2.09	0.53
1:u:430:GLN:NE2	1:v:353:PRO:HB3	2.24	0.53
1:1:430:GLN:NE2	1:2:353:PRO:HB3	2.23	0.53
1:3:511:TYR:HD2	1:3:520:VAL:HG22	1.74	0.53
1:A:511:TYR:HD2	1:A:520:VAL:HG22	1.74	0.53
1:H:251:PRO:HB3	1:I:659:PRO:HG2	1.89	0.53
1:I:560:LEU:HB3	1:I:727:PRO:HD3	1.91	0.53
1:O:487:ARG:HH11	1:n:585:LEU:CD1	2.22	0.53
1:W:430:GLN:NE2	1:Y:353:PRO:HB3	2.24	0.53
1:X:287:ASN:O	1:X:618:PRO:HA	2.09	0.53
1:c:511:TYR:HD2	1:c:520:VAL:HG22	1.74	0.53
1:c:585:LEU:CD1	1:o:487:ARG:HH11	2.22	0.53
1:f:511:TYR:HD2	1:f:520:VAL:HG22	1.74	0.53
1:g:251:PRO:HB3	1:1:659:PRO:HG2	1.91	0.53
1:o:287:ASN:O	1:o:618:PRO:HA	2.09	0.53
1:q:560:LEU:HB3	1:q:727:PRO:HD3	1.91	0.53
1:y:297:ASP:OD1	1:y:300:ARG:NH1	2.41	0.53
1:z:585:LEU:CD1	1:1:487:ARG:HH11	2.22	0.53
1:6:430:GLN:NE2	1:7:353:PRO:HB3	2.24	0.53
1:B:287:ASN:O	1:B:618:PRO:HA	2.09	0.52
1:J:287:ASN:O	1:J:618:PRO:HA	2.09	0.52
1:N:560:LEU:HB3	1:N:727:PRO:HD3	1.91	0.52
1:O:297:ASP:OD1	1:O:300:ARG:NH1	2.41	0.52
1:T:487:ARG:HH11	1:l:585:LEU:CD1	2.22	0.52
1:T:511:TYR:HD2	1:T:520:VAL:HG22	1.73	0.52
1:V:430:GLN:NE2	1:e:353:PRO:HB3	2.23	0.52
1:V:564:GLU:OE2	1:V:614:TYR:OH	2.20	0.52
1:W:560:LEU:HB3	1:W:727:PRO:HD3	1.91	0.52
1:Z:430:GLN:NE2	1:4:353:PRO:HB3	2.23	0.52
1:Z:487:ARG:HH11	1:3:585:LEU:CD1	2.22	0.52
1:a:430:GLN:NE2	1:8:353:PRO:HB3	2.23	0.52
1:a:585:LEU:CD1	1:8:487:ARG:HH11	2.22	0.52
1:h:560:LEU:HB3	1:h:727:PRO:HD3	1.91	0.52
1:i:415:TYR:OH	1:i:643:HIS:O	2.23	0.52
1:i:560:LEU:HB3	1:i:727:PRO:HD3	1.91	0.52
1:j:430:GLN:NE2	1:k:353:PRO:HB3	2.23	0.52
1:t:511:TYR:HD2	1:t:520:VAL:HG22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:560:LEU:HB3	1:u:727:PRO:HD3	1.91	0.52
1:v:511:TYR:HD2	1:v:520:VAL:HG22	1.74	0.52
1:1:287:ASN:O	1:1:618:PRO:HA	2.09	0.52
1:2:287:ASN:O	1:2:618:PRO:HA	2.09	0.52
1:4:415:TYR:OH	1:4:643:HIS:O	2.23	0.52
1:B:487:ARG:HH11	1:L:585:LEU:CD1	2.22	0.52
1:B:560:LEU:HB3	1:B:727:PRO:HD3	1.91	0.52
1:F:297:ASP:OD1	1:F:300:ARG:NH1	2.41	0.52
1:G:511:TYR:HD2	1:G:520:VAL:HG22	1.74	0.52
1:K:353:PRO:HB3	1:8:430:GLN:NE2	2.23	0.52
1:M:560:LEU:HB3	1:M:727:PRO:HD3	1.91	0.52
1:N:415:TYR:OH	1:N:643:HIS:O	2.23	0.52
1:O:430:GLN:NE2	1:m:353:PRO:HB3	2.23	0.52
1:S:296:ARG:NE	1:T:699:GLU:HG2	2.25	0.52
1:U:287:ASN:O	1:U:618:PRO:HA	2.09	0.52
1:X:560:LEU:HB3	1:X:727:PRO:HD3	1.91	0.52
1:e:511:TYR:HD2	1:e:520:VAL:HG22	1.74	0.52
1:f:278:SER:HB2	1:g:439:LEU:HD21	1.91	0.52
1:h:287:ASN:O	1:h:618:PRO:HA	2.09	0.52
1:j:511:TYR:HD2	1:j:520:VAL:HG22	1.74	0.52
1:k:560:LEU:HB3	1:k:727:PRO:HD3	1.91	0.52
1:l:297:ASP:OD1	1:l:300:ARG:NH1	2.41	0.52
1:s:287:ASN:O	1:s:618:PRO:HA	2.09	0.52
1:u:585:LEU:CD1	1:v:487:ARG:HH11	2.22	0.52
1:w:287:ASN:O	1:w:618:PRO:HA	2.09	0.52
1:x:287:ASN:O	1:x:618:PRO:HA	2.09	0.52
1:4:297:ASP:OD1	1:4:300:ARG:NH1	2.41	0.52
1:4:511:TYR:HD2	1:4:520:VAL:HG22	1.74	0.52
1:6:560:LEU:HB3	1:6:727:PRO:HD3	1.91	0.52
1:B:585:LEU:CD1	1:J:487:ARG:HH11	2.22	0.52
1:B:699:GLU:HG2	1:I:296:ARG:NE	2.25	0.52
1:D:353:PRO:HB3	1:P:430:GLN:NE2	2.24	0.52
1:D:560:LEU:HB3	1:D:727:PRO:HD3	1.91	0.52
1:K:511:TYR:HD2	1:K:520:VAL:HG22	1.74	0.52
1:M:287:ASN:O	1:M:618:PRO:HA	2.09	0.52
1:Q:287:ASN:O	1:Q:618:PRO:HA	2.09	0.52
1:V:487:ARG:HH11	1:X:585:LEU:CD1	2.22	0.52
1:Z:353:PRO:HB3	1:3:430:GLN:NE2	2.23	0.52
1:c:353:PRO:HB3	1:p:430:GLN:NE2	2.24	0.52
1:j:287:ASN:O	1:j:618:PRO:HA	2.09	0.52
1:s:511:TYR:HD2	1:s:520:VAL:HG22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:511:TYR:HD2	1:w:520:VAL:HG22	1.74	0.52
1:3:415:TYR:OH	1:3:643:HIS:O	2.23	0.52
1:C:560:LEU:HB3	1:C:727:PRO:HD3	1.91	0.52
1:E:287:ASN:O	1:E:618:PRO:HA	2.09	0.52
1:F:487:ARG:HH11	1:Q:585:LEU:CD1	2.22	0.52
1:I:511:TYR:HD2	1:I:520:VAL:HG22	1.74	0.52
1:K:297:ASP:OD1	1:K:300:ARG:NH1	2.41	0.52
1:K:415:TYR:OH	1:K:643:HIS:O	2.23	0.52
1:P:287:ASN:O	1:P:618:PRO:HA	2.09	0.52
1:Q:511:TYR:HD2	1:Q:520:VAL:HG22	1.74	0.52
1:U:511:TYR:HD2	1:U:520:VAL:HG22	1.74	0.52
1:X:511:TYR:HD2	1:X:520:VAL:HG22	1.74	0.52
1:c:287:ASN:O	1:c:618:PRO:HA	2.09	0.52
1:e:287:ASN:O	1:e:618:PRO:HA	2.09	0.52
1:f:360:HIS:HA	1:g:442:GLN:HA	1.90	0.52
1:m:511:TYR:HD2	1:m:520:VAL:HG22	1.74	0.52
1:o:560:LEU:HB3	1:o:727:PRO:HD3	1.91	0.52
1:w:560:LEU:HB3	1:w:727:PRO:HD3	1.91	0.52
1:x:585:LEU:CD1	1:y:487:ARG:HH11	2.22	0.52
1:5:287:ASN:O	1:5:618:PRO:HA	2.09	0.52
1:A:370:ASP:OD1	1:E:667:LYS:NZ	2.43	0.52
1:C:487:ARG:HH11	1:M:585:LEU:CD1	2.22	0.52
1:D:287:ASN:O	1:D:618:PRO:HA	2.09	0.52
1:E:511:TYR:HD2	1:E:520:VAL:HG22	1.74	0.52
1:F:287:ASN:O	1:F:618:PRO:HA	2.09	0.52
1:G:287:ASN:O	1:G:618:PRO:HA	2.09	0.52
1:H:287:ASN:O	1:H:618:PRO:HA	2.09	0.52
1:K:287:ASN:O	1:K:618:PRO:HA	2.09	0.52
1:R:353:PRO:HB3	1:U:430:GLN:NE2	2.23	0.52
1:S:560:LEU:HB3	1:S:727:PRO:HD3	1.91	0.52
1:a:415:TYR:OH	1:a:643:HIS:O	2.23	0.52
1:l:511:TYR:HD2	1:l:520:VAL:HG22	1.74	0.52
1:q:353:PRO:HB3	1:s:430:GLN:NE2	2.23	0.52
1:y:287:ASN:O	1:y:618:PRO:HA	2.09	0.52
1:z:415:TYR:OH	1:z:643:HIS:O	2.23	0.52
1:1:560:LEU:HB3	1:1:727:PRO:HD3	1.91	0.52
1:3:560:LEU:HB3	1:3:727:PRO:HD3	1.91	0.52
1:E:487:ARG:HH11	1:F:585:LEU:CD1	2.22	0.52
1:E:560:LEU:HB3	1:E:727:PRO:HD3	1.91	0.52
1:O:511:TYR:HD2	1:O:520:VAL:HG22	1.74	0.52
1:T:287:ASN:O	1:T:618:PRO:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:560:LEU:HB3	1:V:727:PRO:HD3	1.91	0.52
1:Y:287:ASN:O	1:Y:618:PRO:HA	2.09	0.52
1:Z:287:ASN:O	1:Z:618:PRO:HA	2.09	0.52
1:g:560:LEU:HB3	1:g:727:PRO:HD3	1.91	0.52
1:k:287:ASN:O	1:k:618:PRO:HA	2.09	0.52
1:n:287:ASN:O	1:n:618:PRO:HA	2.09	0.52
1:r:511:TYR:HD2	1:r:520:VAL:HG22	1.74	0.52
1:u:296:ARG:NE	1:1:699:GLU:HG2	2.25	0.52
1:u:511:TYR:HD2	1:u:520:VAL:HG22	1.74	0.52
1:x:511:TYR:HD2	1:x:520:VAL:HG22	1.74	0.52
1:1:585:LEU:CD1	1:2:487:ARG:HH11	2.22	0.52
1:4:287:ASN:O	1:4:618:PRO:HA	2.09	0.52
1:7:287:ASN:O	1:7:618:PRO:HA	2.09	0.52
1:F:560:LEU:HB3	1:F:727:PRO:HD3	1.91	0.52
1:H:560:LEU:HB3	1:H:727:PRO:HD3	1.91	0.52
1:L:415:TYR:OH	1:L:643:HIS:O	2.23	0.52
1:O:287:ASN:O	1:O:618:PRO:HA	2.09	0.52
1:S:511:TYR:HD2	1:S:520:VAL:HG22	1.74	0.52
1:T:528:THR:HG21	1:T:563:ASN:HA	1.92	0.52
1:T:585:LEU:CD1	1:d:487:ARG:HH11	2.23	0.52
1:U:528:THR:HG21	1:U:563:ASN:HA	1.92	0.52
1:a:560:LEU:HB3	1:a:727:PRO:HD3	1.91	0.52
1:m:528:THR:HG21	1:m:563:ASN:HA	1.92	0.52
1:m:699:GLU:HG2	1:r:296:ARG:NE	2.25	0.52
1:o:511:TYR:HD2	1:o:520:VAL:HG22	1.74	0.52
1:o:585:LEU:CD1	1:p:487:ARG:HH11	2.22	0.52
1:t:287:ASN:O	1:t:618:PRO:HA	2.09	0.52
1:w:487:ARG:HH11	1:y:585:LEU:CD1	2.22	0.52
1:y:560:LEU:HB3	1:y:727:PRO:HD3	1.91	0.52
1:2:296:ARG:NE	1:4:699:GLU:HG2	2.25	0.52
1:8:287:ASN:O	1:8:618:PRO:HA	2.09	0.52
1:A:701:GLN:CA	1:F:703:THR:HG23	2.40	0.52
1:C:528:THR:HG21	1:C:563:ASN:HA	1.92	0.52
1:E:585:LEU:CD1	1:Q:487:ARG:HH11	2.22	0.52
1:G:528:THR:HG21	1:G:563:ASN:HA	1.92	0.52
1:H:585:LEU:CD1	1:W:487:ARG:HH11	2.22	0.52
1:J:296:ARG:NE	1:K:699:GLU:HG2	2.25	0.52
1:K:430:GLN:NE2	1:a:353:PRO:HB3	2.23	0.52
1:K:560:LEU:HB3	1:K:727:PRO:HD3	1.91	0.52
1:R:585:LEU:CD1	1:S:487:ARG:HH11	2.22	0.52
1:b:287:ASN:O	1:b:618:PRO:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:528:THR:HG21	1:c:563:ASN:HA	1.92	0.52
1:d:287:ASN:O	1:d:618:PRO:HA	2.09	0.52
1:d:560:LEU:HB3	1:d:727:PRO:HD3	1.91	0.52
1:e:528:THR:HG21	1:e:563:ASN:HA	1.92	0.52
1:g:487:ARG:HH11	1:h:585:LEU:CD1	2.22	0.52
1:g:528:THR:HG21	1:g:563:ASN:HA	1.92	0.52
1:l:287:ASN:O	1:l:618:PRO:HA	2.09	0.52
1:m:287:ASN:O	1:m:618:PRO:HA	2.09	0.52
1:n:560:LEU:HB3	1:n:727:PRO:HD3	1.91	0.52
1:p:560:LEU:HB3	1:p:727:PRO:HD3	1.91	0.52
1:s:528:THR:HG21	1:s:563:ASN:HA	1.92	0.52
1:u:287:ASN:O	1:u:618:PRO:HA	2.09	0.52
1:4:560:LEU:HB3	1:4:727:PRO:HD3	1.91	0.52
1:5:560:LEU:HB3	1:5:727:PRO:HD3	1.91	0.52
1:7:511:TYR:HD2	1:7:520:VAL:HG22	1.74	0.52
1:A:430:GLN:NE2	1:G:353:PRO:HB3	2.25	0.52
1:B:511:TYR:HD2	1:B:520:VAL:HG22	1.74	0.52
1:D:528:THR:HG21	1:D:563:ASN:HA	1.92	0.52
1:I:287:ASN:O	1:I:618:PRO:HA	2.09	0.52
1:J:530:LYS:HG2	1:J:531:ASP:N	2.22	0.52
1:M:528:THR:HG21	1:M:563:ASN:HA	1.92	0.52
1:P:560:LEU:HB3	1:P:727:PRO:HD3	1.91	0.52
1:W:528:THR:HG21	1:W:563:ASN:HA	1.92	0.52
1:Y:510:LYS:HA	1:Y:520:VAL:HG23	1.92	0.52
1:Y:511:TYR:HD2	1:Y:520:VAL:HG22	1.74	0.52
1:Z:528:THR:HG21	1:Z:563:ASN:HA	1.92	0.52
1:Z:585:LEU:CD1	1:4:487:ARG:HH11	2.22	0.52
1:f:287:ASN:O	1:f:618:PRO:HA	2.09	0.52
1:f:487:ARG:HH11	1:g:585:LEU:CD1	2.23	0.52
1:g:370:ASP:OD1	1:1:667:LYS:NZ	2.43	0.52
1:i:528:THR:HG21	1:i:563:ASN:HA	1.92	0.52
1:j:585:LEU:CD1	1:k:487:ARG:HH11	2.22	0.52
1:k:528:THR:HG21	1:k:563:ASN:HA	1.92	0.52
1:r:560:LEU:HB3	1:r:727:PRO:HD3	1.91	0.52
1:t:528:THR:HG21	1:t:563:ASN:HA	1.92	0.52
1:w:585:LEU:CD1	1:x:487:ARG:HH11	2.22	0.52
1:x:415:TYR:OH	1:x:643:HIS:O	2.23	0.52
1:2:530:LYS:HG2	1:2:531:ASP:N	2.22	0.52
1:6:528:THR:HG21	1:6:563:ASN:HA	1.92	0.52
1:7:510:LYS:HA	1:7:520:VAL:HG23	1.92	0.52
1:A:418:GLU:OE2	1:A:642:LYS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:699:GLU:HG2	1:H:296:ARG:NE	2.25	0.52
1:M:360:HIS:HA	1:b:442:GLN:HA	1.92	0.52
1:Q:418:GLU:OE2	1:Q:642:LYS:N	2.43	0.52
1:T:530:LYS:HG2	1:T:531:ASP:N	2.22	0.52
1:U:418:GLU:OE2	1:U:642:LYS:N	2.43	0.52
1:W:701:GLN:N	1:X:703:THR:CG2	2.50	0.52
1:Y:530:LYS:HG2	1:Y:531:ASP:N	2.22	0.52
1:Z:564:GLU:OE2	1:Z:614:TYR:OH	2.20	0.52
1:c:360:HIS:HA	1:p:442:GLN:HA	1.92	0.52
1:d:528:THR:HG21	1:d:563:ASN:HA	1.92	0.52
1:h:528:THR:HG21	1:h:563:ASN:HA	1.92	0.52
1:j:560:LEU:HB3	1:j:727:PRO:HD3	1.91	0.52
1:n:528:THR:HG21	1:n:563:ASN:HA	1.92	0.52
1:q:585:LEU:CD1	1:r:487:ARG:HH11	2.22	0.52
1:s:418:GLU:OE2	1:s:642:LYS:N	2.43	0.52
1:v:296:ARG:NE	1:y:699:GLU:HG2	2.25	0.52
1:v:701:GLN:N	1:y:703:THR:CG2	2.50	0.52
1:x:418:GLU:OE2	1:x:642:LYS:N	2.43	0.52
1:3:353:PRO:HB3	1:4:430:GLN:NE2	2.23	0.52
1:5:585:LEU:CD1	1:6:487:ARG:HH11	2.22	0.52
1:7:530:LYS:HG2	1:7:531:ASP:N	2.22	0.52
1:8:528:THR:HG21	1:8:563:ASN:HA	1.92	0.52
1:C:287:ASN:O	1:C:618:PRO:HA	2.09	0.51
1:C:528:THR:HG23	1:C:564:GLU:H	1.75	0.51
1:E:360:HIS:HA	1:F:442:GLN:HA	1.92	0.51
1:H:528:THR:HG21	1:H:563:ASN:HA	1.92	0.51
1:I:370:ASP:OD1	1:J:667:LYS:NZ	2.43	0.51
1:I:528:THR:HG21	1:I:563:ASN:HA	1.92	0.51
1:K:487:ARG:HH11	1:8:585:LEU:CD1	2.22	0.51
1:L:510:LYS:HA	1:L:520:VAL:HG23	1.92	0.51
1:M:528:THR:HG23	1:M:564:GLU:H	1.75	0.51
1:N:528:THR:HG21	1:N:563:ASN:HA	1.92	0.51
1:Q:510:LYS:HA	1:Q:520:VAL:HG23	1.92	0.51
1:a:287:ASN:O	1:a:618:PRO:HA	2.09	0.51
1:c:510:LYS:HA	1:c:520:VAL:HG23	1.93	0.51
1:g:296:ARG:NE	1:z:699:GLU:HG2	2.25	0.51
1:g:528:THR:HG23	1:g:564:GLU:H	1.76	0.51
1:h:528:THR:HG23	1:h:564:GLU:H	1.75	0.51
1:j:699:GLU:HG2	1:w:296:ARG:NE	2.25	0.51
1:r:287:ASN:O	1:r:618:PRO:HA	2.09	0.51
1:t:360:HIS:HA	1:v:442:GLN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:585:LEU:CD1	1:u:487:ARG:HH11	2.22	0.51
1:u:528:THR:HG21	1:u:563:ASN:HA	1.92	0.51
1:v:418:GLU:OE2	1:v:642:LYS:N	2.43	0.51
1:z:510:LYS:HA	1:z:520:VAL:HG23	1.92	0.51
1:3:528:THR:HG23	1:3:564:GLU:H	1.75	0.51
1:6:287:ASN:O	1:6:618:PRO:HA	2.09	0.51
1:A:585:LEU:CD1	1:G:487:ARG:HH11	2.23	0.51
1:D:487:ARG:HH11	1:P:585:LEU:CD1	2.22	0.51
1:E:699:GLU:HG2	1:P:296:ARG:NE	2.25	0.51
1:F:528:THR:HG23	1:F:564:GLU:H	1.76	0.51
1:J:442:GLN:HA	1:L:360:HIS:HA	1.92	0.51
1:O:528:THR:HG23	1:O:564:GLU:H	1.75	0.51
1:O:528:THR:HG21	1:O:563:ASN:HA	1.92	0.51
1:P:370:ASP:OD1	1:Q:667:LYS:NZ	2.44	0.51
1:Q:415:TYR:OH	1:Q:643:HIS:O	2.23	0.51
1:R:287:ASN:O	1:R:618:PRO:HA	2.09	0.51
1:S:287:ASN:O	1:S:618:PRO:HA	2.09	0.51
1:W:287:ASN:O	1:W:618:PRO:HA	2.09	0.51
1:a:528:THR:HG23	1:a:564:GLU:H	1.76	0.51
1:a:530:LYS:HG2	1:a:531:ASP:N	2.22	0.51
1:e:510:LYS:HA	1:e:520:VAL:HG23	1.92	0.51
1:f:442:GLN:HA	1:h:360:HIS:HA	1.93	0.51
1:g:287:ASN:O	1:g:618:PRO:HA	2.09	0.51
1:l:528:THR:HG21	1:l:563:ASN:HA	1.92	0.51
1:m:530:LYS:HG2	1:m:531:ASP:N	2.22	0.51
1:t:699:GLU:HG2	1:5:296:ARG:NE	2.25	0.51
1:v:703:THR:CG2	1:y:701:GLN:N	2.50	0.51
1:x:510:LYS:HA	1:x:520:VAL:HG23	1.93	0.51
1:1:511:TYR:HD2	1:1:520:VAL:HG22	1.74	0.51
1:3:287:ASN:O	1:3:618:PRO:HA	2.09	0.51
1:3:530:LYS:HG2	1:3:531:ASP:N	2.22	0.51
1:5:442:GLN:HA	1:6:360:HIS:HA	1.93	0.51
1:5:528:THR:HG21	1:5:563:ASN:HA	1.92	0.51
1:C:296:ARG:NE	1:L:699:GLU:HG2	2.25	0.51
1:G:296:ARG:NE	1:H:699:GLU:HG2	2.26	0.51
1:G:418:GLU:OE2	1:G:642:LYS:N	2.43	0.51
1:H:360:HIS:HA	1:Y:442:GLN:HA	1.93	0.51
1:H:442:GLN:HA	1:W:360:HIS:HA	1.93	0.51
1:M:510:LYS:HA	1:M:520:VAL:HG23	1.92	0.51
1:N:287:ASN:O	1:N:618:PRO:HA	2.09	0.51
1:S:528:THR:HG21	1:S:563:ASN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:415:TYR:OH	1:T:643:HIS:O	2.23	0.51
1:U:703:THR:HG22	1:V:701:GLN:H	1.69	0.51
1:V:442:GLN:HA	1:e:360:HIS:HA	1.93	0.51
1:h:510:LYS:HA	1:h:520:VAL:HG23	1.92	0.51
1:j:296:ARG:NE	1:w:699:GLU:HG2	2.25	0.51
1:m:415:TYR:OH	1:m:643:HIS:O	2.23	0.51
1:o:699:GLU:HG2	1:6:296:ARG:NE	2.26	0.51
1:o:703:THR:CG2	1:6:701:GLN:N	2.50	0.51
1:r:528:THR:HG21	1:r:563:ASN:HA	1.92	0.51
1:y:528:THR:HG23	1:y:564:GLU:H	1.76	0.51
1:z:360:HIS:HA	1:2:442:GLN:HA	1.92	0.51
1:z:487:ARG:HH11	1:2:585:LEU:CD1	2.22	0.51
1:1:418:GLU:OE2	1:1:642:LYS:N	2.43	0.51
1:5:360:HIS:HA	1:7:442:GLN:HA	1.93	0.51
1:A:380:LEU:HD13	1:I:434:ARG:HD2	1.92	0.51
1:E:296:ARG:NE	1:P:699:GLU:HG2	2.26	0.51
1:J:510:LYS:HA	1:J:520:VAL:HG23	1.93	0.51
1:J:585:LEU:CD1	1:L:487:ARG:HH11	2.22	0.51
1:N:296:ARG:NE	1:O:699:GLU:HG2	2.26	0.51
1:O:510:LYS:HA	1:O:520:VAL:HG23	1.92	0.51
1:R:528:THR:HG21	1:R:563:ASN:HA	1.92	0.51
1:S:418:GLU:OE2	1:S:642:LYS:N	2.43	0.51
1:U:699:GLU:HG2	1:V:296:ARG:NE	2.25	0.51
1:W:530:LYS:HG2	1:W:531:ASP:N	2.22	0.51
1:X:528:THR:HG21	1:X:563:ASN:HA	1.92	0.51
1:i:296:ARG:NE	1:l:699:GLU:HG2	2.26	0.51
1:i:418:GLU:OE2	1:i:642:LYS:N	2.43	0.51
1:l:528:THR:HG23	1:l:564:GLU:H	1.76	0.51
1:o:528:THR:HG21	1:o:563:ASN:HA	1.92	0.51
1:q:287:ASN:O	1:q:618:PRO:HA	2.09	0.51
1:q:296:ARG:NE	1:x:699:GLU:HG2	2.25	0.51
1:t:296:ARG:NE	1:5:699:GLU:HG2	2.26	0.51
1:t:418:GLU:OE2	1:t:642:LYS:N	2.43	0.51
1:w:360:HIS:HA	1:y:442:GLN:HA	1.93	0.51
1:1:510:LYS:HA	1:1:520:VAL:HG23	1.92	0.51
1:2:510:LYS:HA	1:2:520:VAL:HG23	1.93	0.51
1:B:418:GLU:OE2	1:B:642:LYS:N	2.43	0.51
1:B:510:LYS:HA	1:B:520:VAL:HG23	1.92	0.51
1:G:528:THR:HG23	1:G:564:GLU:H	1.76	0.51
1:K:442:GLN:HA	1:a:360:HIS:HA	1.92	0.51
1:M:530:LYS:HG2	1:M:531:ASP:N	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:418:GLU:OE2	1:N:642:LYS:N	2.43	0.51
1:N:442:GLN:HA	1:P:360:HIS:HA	1.93	0.51
1:N:528:THR:HG23	1:N:564:GLU:H	1.76	0.51
1:O:442:GLN:HA	1:m:360:HIS:HA	1.93	0.51
1:Q:564:GLU:OE2	1:Q:614:TYR:OH	2.21	0.51
1:S:528:THR:HG23	1:S:564:GLU:H	1.76	0.51
1:S:701:GLN:N	1:T:703:THR:CG2	2.49	0.51
1:W:296:ARG:NE	1:X:699:GLU:HG2	2.26	0.51
1:Y:296:ARG:NE	1:Z:699:GLU:HG2	2.25	0.51
1:b:296:ARG:NE	1:c:699:GLU:HG2	2.25	0.51
1:e:296:ARG:NE	1:f:699:GLU:HG2	2.25	0.51
1:g:699:GLU:HG2	1:z:296:ARG:NE	2.25	0.51
1:h:530:LYS:HG2	1:h:531:ASP:N	2.22	0.51
1:i:287:ASN:O	1:i:618:PRO:HA	2.09	0.51
1:i:442:GLN:HA	1:j:360:HIS:HA	1.93	0.51
1:i:528:THR:HG23	1:i:564:GLU:H	1.75	0.51
1:p:701:GLN:H	1:s:703:THR:HG22	1.69	0.51
1:r:418:GLU:OE2	1:r:642:LYS:N	2.43	0.51
1:u:442:GLN:HA	1:v:360:HIS:HA	1.93	0.51
1:v:510:LYS:HA	1:v:520:VAL:HG23	1.92	0.51
1:x:564:GLU:OE2	1:x:614:TYR:OH	2.20	0.51
1:1:442:GLN:HA	1:2:360:HIS:HA	1.93	0.51
1:A:564:GLU:OE2	1:A:614:TYR:OH	2.20	0.51
1:I:510:LYS:HA	1:I:520:VAL:HG23	1.92	0.51
1:J:528:THR:HG23	1:J:564:GLU:H	1.76	0.51
1:L:528:THR:HG23	1:L:564:GLU:H	1.76	0.51
1:L:528:THR:HG21	1:L:563:ASN:HA	1.92	0.51
1:M:564:GLU:OE2	1:M:614:TYR:OH	2.20	0.51
1:O:418:GLU:OE2	1:O:642:LYS:N	2.43	0.51
1:R:418:GLU:OE2	1:R:642:LYS:N	2.43	0.51
1:S:701:GLN:H	1:T:703:THR:HG22	1.69	0.51
1:T:510:LYS:HA	1:T:520:VAL:HG23	1.93	0.51
1:V:360:HIS:HA	1:X:442:GLN:HA	1.93	0.51
1:Z:510:LYS:HA	1:Z:520:VAL:HG23	1.92	0.51
1:b:528:THR:HG23	1:b:564:GLU:H	1.76	0.51
1:b:699:GLU:HG2	1:c:296:ARG:NE	2.25	0.51
1:l:418:GLU:OE2	1:l:642:LYS:N	2.43	0.51
1:m:296:ARG:NE	1:r:699:GLU:HG2	2.26	0.51
1:m:510:LYS:HA	1:m:520:VAL:HG23	1.93	0.51
1:p:296:ARG:NE	1:s:699:GLU:HG2	2.25	0.51
1:q:487:ARG:HH11	1:s:585:LEU:CD1	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:528:THR:HG21	1:q:563:ASN:HA	1.92	0.51
1:v:699:GLU:HG2	1:y:296:ARG:NE	2.25	0.51
1:2:699:GLU:HG2	1:4:296:ARG:NE	2.26	0.51
1:3:360:HIS:HA	1:4:442:GLN:HA	1.92	0.51
1:4:528:THR:HG21	1:4:563:ASN:HA	1.92	0.51
1:6:530:LYS:HG2	1:6:531:ASP:N	2.22	0.51
1:7:296:ARG:NE	1:8:699:GLU:HG2	2.25	0.51
1:A:510:LYS:HA	1:A:520:VAL:HG23	1.93	0.51
1:B:442:GLN:HA	1:J:360:HIS:HA	1.93	0.51
1:K:418:GLU:OE2	1:K:642:LYS:N	2.43	0.51
1:K:528:THR:HG21	1:K:563:ASN:HA	1.92	0.51
1:M:418:GLU:OE2	1:M:642:LYS:N	2.43	0.51
1:N:699:GLU:HG2	1:O:296:ARG:NE	2.26	0.51
1:Q:296:ARG:NE	1:R:699:GLU:HG2	2.25	0.51
1:S:415:TYR:OH	1:S:643:HIS:O	2.23	0.51
1:S:699:GLU:HG2	1:T:296:ARG:NE	2.26	0.51
1:V:418:GLU:OE2	1:V:642:LYS:N	2.43	0.51
1:X:360:HIS:HA	1:e:442:GLN:HA	1.92	0.51
1:c:442:GLN:HA	1:o:360:HIS:HA	1.92	0.51
1:e:699:GLU:HG2	1:f:296:ARG:NE	2.25	0.51
1:f:510:LYS:HA	1:f:520:VAL:HG23	1.92	0.51
1:l:510:LYS:HA	1:l:520:VAL:HG23	1.93	0.51
1:o:442:GLN:HA	1:p:360:HIS:HA	1.93	0.51
1:q:360:HIS:HA	1:s:442:GLN:HA	1.93	0.51
1:q:418:GLU:OE2	1:q:642:LYS:N	2.43	0.51
1:r:528:THR:HG23	1:r:564:GLU:H	1.76	0.51
1:t:528:THR:HG23	1:t:564:GLU:H	1.76	0.51
1:u:667:LYS:NZ	1:5:370:ASP:OD1	2.44	0.51
1:x:442:GLN:HA	1:y:360:HIS:HA	1.92	0.51
1:x:528:THR:HG23	1:x:564:GLU:H	1.76	0.51
1:z:528:THR:HG23	1:z:564:GLU:H	1.76	0.51
1:2:528:THR:HG23	1:2:564:GLU:H	1.76	0.51
1:4:418:GLU:OE2	1:4:642:LYS:N	2.43	0.51
1:8:510:LYS:HA	1:8:520:VAL:HG23	1.92	0.51
1:A:450:THR:OG1	1:G:502:ASN:HA	2.11	0.51
1:J:699:GLU:HG2	1:K:296:ARG:NE	2.26	0.51
1:K:360:HIS:HA	1:8:442:GLN:HA	1.93	0.51
1:N:510:LYS:HA	1:N:520:VAL:HG23	1.92	0.51
1:R:360:HIS:HA	1:U:442:GLN:HA	1.93	0.51
1:R:487:ARG:HH11	1:U:585:LEU:CD1	2.22	0.51
1:R:564:GLU:OE2	1:R:614:TYR:OH	2.20	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:360:HIS:HA	1:l:442:GLN:HA	1.93	0.51
1:T:667:LYS:NZ	1:i:370:ASP:OD1	2.44	0.51
1:b:510:LYS:HA	1:b:520:VAL:HG23	1.92	0.51
1:d:510:LYS:HA	1:d:520:VAL:HG23	1.93	0.51
1:e:418:GLU:OE2	1:e:642:LYS:N	2.43	0.51
1:f:528:THR:HG21	1:f:563:ASN:HA	1.92	0.51
1:f:528:THR:HG23	1:f:564:GLU:H	1.76	0.51
1:h:418:GLU:OE2	1:h:642:LYS:N	2.43	0.51
1:j:418:GLU:OE2	1:j:642:LYS:N	2.43	0.51
1:j:442:GLN:HA	1:k:360:HIS:HA	1.93	0.51
1:m:442:GLN:HA	1:n:360:HIS:HA	1.92	0.51
1:m:703:THR:HG22	1:r:701:GLN:H	1.70	0.51
1:n:510:LYS:HA	1:n:520:VAL:HG23	1.92	0.51
1:p:418:GLU:OE2	1:p:642:LYS:N	2.43	0.51
1:u:510:LYS:HA	1:u:520:VAL:HG23	1.92	0.51
1:u:528:THR:HG23	1:u:564:GLU:H	1.75	0.51
1:z:528:THR:HG21	1:z:563:ASN:HA	1.92	0.51
1:7:699:GLU:HG2	1:8:296:ARG:NE	2.26	0.51
1:8:418:GLU:OE2	1:8:642:LYS:N	2.43	0.51
1:8:528:THR:HG23	1:8:564:GLU:H	1.75	0.51
1:8:564:GLU:OE2	1:8:614:TYR:OH	2.20	0.51
1:A:528:THR:HG23	1:A:564:GLU:H	1.76	0.51
1:A:528:THR:HG21	1:A:563:ASN:HA	1.92	0.51
1:E:418:GLU:OE2	1:E:642:LYS:N	2.43	0.51
1:E:528:THR:HG21	1:E:563:ASN:HA	1.92	0.51
1:G:442:GLN:HA	1:I:360:HIS:HA	1.93	0.51
1:U:528:THR:HG23	1:U:564:GLU:H	1.75	0.51
1:X:528:THR:HG23	1:X:564:GLU:H	1.75	0.51
1:X:564:GLU:OE2	1:X:614:TYR:OH	2.20	0.51
1:Y:528:THR:HG23	1:Y:564:GLU:H	1.76	0.51
1:Y:699:GLU:HG2	1:Z:296:ARG:NE	2.26	0.51
1:Z:418:GLU:OE2	1:Z:642:LYS:N	2.43	0.51
1:Z:528:THR:HG23	1:Z:564:GLU:H	1.75	0.51
1:a:418:GLU:OE2	1:a:642:LYS:N	2.43	0.51
1:b:528:THR:HG21	1:b:563:ASN:HA	1.92	0.51
1:c:487:ARG:HH11	1:p:585:LEU:CD1	2.22	0.51
1:d:699:GLU:HG2	1:n:296:ARG:NE	2.25	0.51
1:i:699:GLU:HG2	1:l:296:ARG:NE	2.26	0.51
1:j:703:THR:HG1	1:w:703:THR:HG1	1.57	0.51
1:o:510:LYS:HA	1:o:520:VAL:HG23	1.92	0.51
1:r:415:TYR:OH	1:r:643:HIS:O	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:528:THR:HG23	1:s:564:GLU:H	1.76	0.51
1:v:528:THR:HG23	1:v:564:GLU:H	1.76	0.51
1:w:528:THR:HG21	1:w:563:ASN:HA	1.92	0.51
1:3:418:GLU:OE2	1:3:642:LYS:N	2.43	0.51
1:5:418:GLU:OE2	1:5:642:LYS:N	2.43	0.51
1:7:418:GLU:OE2	1:7:642:LYS:N	2.43	0.51
1:C:510:LYS:HA	1:C:520:VAL:HG23	1.93	0.51
1:F:418:GLU:OE2	1:F:642:LYS:N	2.43	0.51
1:H:418:GLU:OE2	1:H:642:LYS:N	2.43	0.51
1:H:528:THR:HG23	1:H:564:GLU:H	1.76	0.51
1:K:528:THR:HG23	1:K:564:GLU:H	1.75	0.51
1:Q:528:THR:HG23	1:Q:564:GLU:H	1.76	0.51
1:Q:699:GLU:HG2	1:R:296:ARG:NE	2.26	0.51
1:T:418:GLU:OE2	1:T:642:LYS:N	2.43	0.51
1:T:442:GLN:HA	1:d:360:HIS:HA	1.93	0.51
1:W:418:GLU:OE2	1:W:642:LYS:N	2.43	0.51
1:W:510:LYS:HA	1:W:520:VAL:HG23	1.93	0.51
1:Y:418:GLU:OE2	1:Y:642:LYS:N	2.43	0.51
1:Z:442:GLN:HA	1:4:360:HIS:HA	1.93	0.51
1:b:370:ASP:OD1	1:o:667:LYS:NZ	2.44	0.51
1:c:418:GLU:OE2	1:c:642:LYS:N	2.43	0.51
1:g:510:LYS:HA	1:g:520:VAL:HG23	1.92	0.51
1:m:418:GLU:OE2	1:m:642:LYS:N	2.43	0.51
1:q:510:LYS:HA	1:q:520:VAL:HG23	1.92	0.51
1:v:528:THR:HG21	1:v:563:ASN:HA	1.92	0.51
1:4:528:THR:HG23	1:4:564:GLU:H	1.75	0.51
1:6:418:GLU:OE2	1:6:642:LYS:N	2.43	0.51
1:A:703:THR:CG2	1:F:701:GLN:N	2.52	0.50
1:B:667:LYS:NZ	1:C:370:ASP:OD1	2.44	0.50
1:G:585:LEU:CD1	1:I:487:ARG:HH11	2.24	0.50
1:I:528:THR:HG23	1:I:564:GLU:H	1.76	0.50
1:P:528:THR:HG23	1:P:564:GLU:H	1.75	0.50
1:R:667:LYS:NZ	1:V:370:ASP:OD1	2.45	0.50
1:S:370:ASP:OD1	1:d:667:LYS:NZ	2.44	0.50
1:V:585:LEU:CD1	1:e:487:ARG:HH11	2.23	0.50
1:Y:528:THR:HG21	1:Y:563:ASN:HA	1.92	0.50
1:Z:530:LYS:HG2	1:Z:531:ASP:N	2.22	0.50
1:h:564:GLU:OE2	1:h:614:TYR:OH	2.20	0.50
1:i:510:LYS:HA	1:i:520:VAL:HG23	1.93	0.50
1:j:370:ASP:OD1	1:x:667:LYS:NZ	2.45	0.50
1:j:528:THR:HG23	1:j:564:GLU:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:528:THR:HG23	1:m:564:GLU:H	1.76	0.50
1:p:370:ASP:OD1	1:q:667:LYS:NZ	2.45	0.50
1:q:442:GLN:HA	1:r:360:HIS:HA	1.93	0.50
1:q:528:THR:HG23	1:q:564:GLU:H	1.76	0.50
1:w:418:GLU:OE2	1:w:642:LYS:N	2.43	0.50
1:y:418:GLU:OE2	1:y:642:LYS:N	2.43	0.50
1:z:418:GLU:OE2	1:z:642:LYS:N	2.43	0.50
1:5:528:THR:HG23	1:5:564:GLU:H	1.75	0.50
1:6:510:LYS:HA	1:6:520:VAL:HG23	1.92	0.50
1:7:528:THR:HG23	1:7:564:GLU:H	1.76	0.50
1:7:528:THR:HG21	1:7:563:ASN:HA	1.92	0.50
1:B:296:ARG:NE	1:I:699:GLU:HG2	2.26	0.50
1:B:528:THR:HG21	1:B:563:ASN:HA	1.92	0.50
1:C:699:GLU:HG2	1:L:296:ARG:NE	2.26	0.50
1:E:703:THR:HG1	1:P:703:THR:HG1	1.57	0.50
1:J:370:ASP:OD1	1:a:667:LYS:NZ	2.44	0.50
1:L:418:GLU:OE2	1:L:642:LYS:N	2.43	0.50
1:O:667:LYS:NZ	1:d:370:ASP:OD1	2.45	0.50
1:P:528:THR:HG21	1:P:563:ASN:HA	1.92	0.50
1:R:442:GLN:HA	1:S:360:HIS:HA	1.93	0.50
1:R:528:THR:HG23	1:R:564:GLU:H	1.76	0.50
1:U:510:LYS:HA	1:U:520:VAL:HG23	1.92	0.50
1:X:418:GLU:OE2	1:X:642:LYS:N	2.44	0.50
1:X:510:LYS:HA	1:X:520:VAL:HG23	1.93	0.50
1:d:296:ARG:NE	1:n:699:GLU:HG2	2.26	0.50
1:g:380:LEU:HD13	1:h:434:ARG:HD2	1.93	0.50
1:k:510:LYS:HA	1:k:520:VAL:HG23	1.92	0.50
1:n:667:LYS:NZ	1:r:370:ASP:OD1	2.44	0.50
1:o:528:THR:HG23	1:o:564:GLU:H	1.76	0.50
1:p:528:THR:HG21	1:p:563:ASN:HA	1.92	0.50
1:p:699:GLU:HG2	1:s:296:ARG:NE	2.26	0.50
1:q:564:GLU:OE2	1:q:614:TYR:OH	2.20	0.50
1:r:667:LYS:NZ	1:x:370:ASP:OD1	2.44	0.50
1:s:510:LYS:HA	1:s:520:VAL:HG23	1.92	0.50
1:t:442:GLN:HA	1:u:360:HIS:HA	1.93	0.50
1:z:442:GLN:HA	1:1:360:HIS:HA	1.93	0.50
1:1:528:THR:HG21	1:1:563:ASN:HA	1.92	0.50
1:2:370:ASP:OD1	1:3:667:LYS:NZ	2.44	0.50
1:B:360:HIS:HA	1:L:442:GLN:HA	1.93	0.50
1:C:284:PHE:CZ	1:C:317:LEU:HD21	2.47	0.50
1:C:667:LYS:NZ	1:D:370:ASP:OD1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:360:HIS:HA	1:P:442:GLN:HA	1.93	0.50
1:D:510:LYS:HA	1:D:520:VAL:HG23	1.93	0.50
1:F:528:THR:HG21	1:F:563:ASN:HA	1.92	0.50
1:L:370:ASP:OD1	1:b:667:LYS:NZ	2.45	0.50
1:N:703:THR:HG1	1:O:703:THR:HG1	1.57	0.50
1:Q:528:THR:HG21	1:Q:563:ASN:HA	1.92	0.50
1:R:510:LYS:HA	1:R:520:VAL:HG23	1.92	0.50
1:T:528:THR:HG23	1:T:564:GLU:H	1.76	0.50
1:U:296:ARG:NE	1:V:699:GLU:HG2	2.25	0.50
1:V:528:THR:HG21	1:V:563:ASN:HA	1.92	0.50
1:X:667:LYS:NZ	1:f:370:ASP:OD1	2.45	0.50
1:c:528:THR:HG23	1:c:564:GLU:H	1.75	0.50
1:f:418:GLU:OE2	1:f:642:LYS:N	2.43	0.50
1:f:667:LYS:NZ	1:z:370:ASP:OD1	2.45	0.50
1:j:528:THR:HG21	1:j:563:ASN:HA	1.92	0.50
1:l:667:LYS:NZ	1:n:370:ASP:OD1	2.45	0.50
1:o:564:GLU:OE2	1:o:614:TYR:OH	2.20	0.50
1:q:699:GLU:HG2	1:x:296:ARG:NE	2.26	0.50
1:u:370:ASP:OD1	1:2:667:LYS:NZ	2.44	0.50
1:2:418:GLU:OE2	1:2:642:LYS:N	2.43	0.50
1:4:284:PHE:CZ	1:4:317:LEU:HD21	2.47	0.50
1:5:510:LYS:HA	1:5:520:VAL:HG23	1.92	0.50
1:6:528:THR:HG23	1:6:564:GLU:H	1.75	0.50
1:D:284:PHE:CZ	1:D:317:LEU:HD21	2.47	0.50
1:D:667:LYS:NZ	1:E:370:ASP:OD1	2.45	0.50
1:G:510:LYS:HA	1:G:520:VAL:HG23	1.93	0.50
1:H:510:LYS:HA	1:H:520:VAL:HG23	1.93	0.50
1:I:284:PHE:CZ	1:I:317:LEU:HD21	2.47	0.50
1:J:418:GLU:OE2	1:J:642:LYS:N	2.43	0.50
1:K:284:PHE:CZ	1:K:317:LEU:HD21	2.47	0.50
1:M:370:ASP:OD1	1:N:667:LYS:NZ	2.44	0.50
1:Q:370:ASP:OD1	1:S:667:LYS:NZ	2.44	0.50
1:U:564:GLU:OE2	1:U:614:TYR:OH	2.20	0.50
1:W:284:PHE:CZ	1:W:317:LEU:HD21	2.47	0.50
1:W:528:THR:HG23	1:W:564:GLU:H	1.75	0.50
1:W:699:GLU:HG2	1:X:296:ARG:NE	2.26	0.50
1:Z:284:PHE:CZ	1:Z:317:LEU:HD21	2.47	0.50
1:b:418:GLU:OE2	1:b:642:LYS:N	2.43	0.50
1:d:284:PHE:CZ	1:d:317:LEU:HD21	2.47	0.50
1:d:703:THR:HG1	1:n:703:THR:HG1	1.58	0.50
1:g:284:PHE:CZ	1:g:317:LEU:HD21	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:667:LYS:NZ	1:l:370:ASP:OD1	2.44	0.50
1:k:667:LYS:NZ	1:w:370:ASP:OD1	2.45	0.50
1:n:284:PHE:CZ	1:n:317:LEU:HD21	2.47	0.50
1:r:439:LEU:HD21	1:s:278:SER:HB2	1.94	0.50
1:u:418:GLU:OE2	1:u:642:LYS:N	2.43	0.50
1:v:370:ASP:OD1	1:w:667:LYS:NZ	2.45	0.50
1:x:528:THR:HG21	1:x:563:ASN:HA	1.92	0.50
1:6:284:PHE:CZ	1:6:317:LEU:HD21	2.47	0.50
1:8:530:LYS:HG2	1:8:531:ASP:N	2.22	0.50
1:I:418:GLU:OE2	1:I:642:LYS:N	2.43	0.50
1:L:284:PHE:CZ	1:L:317:LEU:HD21	2.47	0.50
1:M:667:LYS:NZ	1:c:370:ASP:OD1	2.44	0.50
1:O:370:ASP:OD1	1:P:667:LYS:NZ	2.44	0.50
1:P:284:PHE:CZ	1:P:317:LEU:HD21	2.47	0.50
1:V:667:LYS:NZ	1:W:370:ASP:OD1	2.44	0.50
1:e:528:THR:HG23	1:e:564:GLU:H	1.76	0.50
1:h:284:PHE:CZ	1:h:317:LEU:HD21	2.47	0.50
1:i:360:HIS:HA	1:k:442:GLN:HA	1.92	0.50
1:k:284:PHE:CZ	1:k:317:LEU:HD21	2.47	0.50
1:o:296:ARG:NE	1:6:699:GLU:HG2	2.26	0.50
1:o:370:ASP:OD1	1:7:667:LYS:NZ	2.44	0.50
1:o:703:THR:HG22	1:6:701:GLN:H	1.70	0.50
1:t:510:LYS:HA	1:t:520:VAL:HG23	1.93	0.50
1:w:442:GLN:HA	1:x:360:HIS:HA	1.93	0.50
1:x:284:PHE:CZ	1:x:317:LEU:HD21	2.47	0.50
1:y:528:THR:HG21	1:y:563:ASN:HA	1.92	0.50
1:z:284:PHE:CZ	1:z:317:LEU:HD21	2.47	0.50
1:3:278:SER:HB2	1:4:439:LEU:HD21	1.94	0.50
1:3:370:ASP:OD1	1:8:667:LYS:NZ	2.45	0.50
1:3:510:LYS:HA	1:3:520:VAL:HG23	1.93	0.50
1:5:667:LYS:NZ	1:8:370:ASP:OD1	2.44	0.50
1:8:284:PHE:CZ	1:8:317:LEU:HD21	2.47	0.50
1:A:278:SER:HB2	1:I:439:LEU:HD21	1.92	0.50
1:C:442:GLN:HA	1:b:360:HIS:HA	1.92	0.50
1:D:442:GLN:HA	1:N:360:HIS:HA	1.92	0.50
1:I:530:LYS:HG2	1:I:531:ASP:N	2.22	0.50
1:J:284:PHE:CZ	1:J:317:LEU:HD21	2.47	0.50
1:J:528:THR:HG21	1:J:563:ASN:HA	1.92	0.50
1:K:439:LEU:HD21	1:a:278:SER:HB2	1.94	0.50
1:N:370:ASP:OD1	1:m:667:LYS:NZ	2.45	0.50
1:Q:284:PHE:CZ	1:Q:317:LEU:HD21	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:439:LEU:HD21	1:U:278:SER:HB2	1.94	0.50
1:S:442:GLN:HA	1:U:360:HIS:HA	1.92	0.50
1:S:510:LYS:HA	1:S:520:VAL:HG23	1.92	0.50
1:X:370:ASP:OD1	1:Y:667:LYS:NZ	2.44	0.50
1:Z:667:LYS:NZ	1:a:370:ASP:OD1	2.45	0.50
1:a:510:LYS:HA	1:a:520:VAL:HG23	1.93	0.50
1:b:284:PHE:CZ	1:b:317:LEU:HD21	2.47	0.50
1:e:370:ASP:OD1	1:h:667:LYS:NZ	2.44	0.50
1:f:284:PHE:CZ	1:f:317:LEU:HD21	2.47	0.50
1:h:370:ASP:OD1	1:i:667:LYS:NZ	2.44	0.50
1:j:284:PHE:CZ	1:j:317:LEU:HD21	2.47	0.50
1:r:510:LYS:HA	1:r:520:VAL:HG23	1.93	0.50
1:u:284:PHE:CZ	1:u:317:LEU:HD21	2.47	0.50
1:z:550:ALA:HB1	1:z:554:THR:HG21	1.94	0.50
1:2:284:PHE:CZ	1:2:317:LEU:HD21	2.47	0.50
1:2:528:THR:HG21	1:2:563:ASN:HA	1.92	0.50
1:2:703:THR:HG1	1:4:703:THR:HG1	1.57	0.50
1:6:442:GLN:HA	1:7:360:HIS:HA	1.92	0.50
1:D:699:GLU:HG2	1:M:296:ARG:NE	2.26	0.50
1:E:284:PHE:CZ	1:E:317:LEU:HD21	2.47	0.50
1:E:442:GLN:HA	1:Q:360:HIS:HA	1.93	0.50
1:F:360:HIS:HA	1:Q:442:GLN:HA	1.93	0.50
1:H:667:LYS:NZ	1:Z:370:ASP:OD1	2.44	0.50
1:L:550:ALA:HB1	1:L:554:THR:HG21	1.94	0.50
1:M:284:PHE:CZ	1:M:317:LEU:HD21	2.47	0.50
1:P:418:GLU:OE2	1:P:642:LYS:N	2.43	0.50
1:U:284:PHE:CZ	1:U:317:LEU:HD21	2.47	0.50
1:W:439:LEU:HD21	1:Y:278:SER:HB2	1.94	0.50
1:W:550:ALA:HB1	1:W:554:THR:HG21	1.94	0.50
1:d:528:THR:HG23	1:d:564:GLU:H	1.75	0.50
1:g:667:LYS:NZ	1:k:370:ASP:OD1	2.45	0.50
1:g:668:PHE:CZ	1:k:373:MET:HB2	2.47	0.50
1:h:296:ARG:NE	1:k:699:GLU:HG2	2.26	0.50
1:i:278:SER:HB2	1:k:439:LEU:HD21	1.94	0.50
1:j:439:LEU:HD21	1:k:278:SER:HB2	1.94	0.50
1:r:442:GLN:HA	1:s:360:HIS:HA	1.92	0.50
1:w:528:THR:HG23	1:w:564:GLU:H	1.75	0.50
1:y:510:LYS:HA	1:y:520:VAL:HG23	1.93	0.50
1:3:528:THR:HG21	1:3:563:ASN:HA	1.92	0.50
1:6:550:ALA:HB1	1:6:554:THR:HG21	1.94	0.50
1:A:284:PHE:CZ	1:A:317:LEU:HD21	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:668:PHE:CZ	1:E:373:MET:HB2	2.47	0.50
1:E:528:THR:HG23	1:E:564:GLU:H	1.75	0.50
1:F:510:LYS:HA	1:F:520:VAL:HG23	1.93	0.50
1:G:370:ASP:OD1	1:W:667:LYS:NZ	2.45	0.50
1:J:550:ALA:HB1	1:J:554:THR:HG21	1.94	0.50
1:R:284:PHE:CZ	1:R:317:LEU:HD21	2.47	0.50
1:T:380:LEU:HD13	1:l:434:ARG:HD2	1.94	0.50
1:X:550:ALA:HB1	1:X:554:THR:HG21	1.94	0.50
1:a:528:THR:HG21	1:a:563:ASN:HA	1.92	0.50
1:a:699:GLU:HG2	1:3:296:ARG:NE	2.26	0.50
1:b:703:THR:HG1	1:c:703:THR:HG1	1.59	0.50
1:c:530:LYS:HG2	1:c:531:ASP:N	2.22	0.50
1:d:550:ALA:HB1	1:d:554:THR:HG21	1.94	0.50
1:f:380:LEU:HD13	1:g:434:ARG:HD2	1.93	0.50
1:k:528:THR:HG23	1:k:564:GLU:H	1.75	0.50
1:l:284:PHE:CZ	1:l:317:LEU:HD21	2.47	0.50
1:n:528:THR:HG23	1:n:564:GLU:H	1.76	0.50
1:n:550:ALA:HB1	1:n:554:THR:HG21	1.94	0.50
1:o:418:GLU:OE2	1:o:642:LYS:N	2.43	0.50
1:o:550:ALA:HB1	1:o:554:THR:HG21	1.94	0.50
1:p:667:LYS:NZ	1:6:370:ASP:OD1	2.44	0.50
1:s:284:PHE:CZ	1:s:317:LEU:HD21	2.47	0.50
1:u:699:GLU:HG2	1:1:296:ARG:NE	2.26	0.50
1:v:284:PHE:CZ	1:v:317:LEU:HD21	2.47	0.50
1:w:284:PHE:CZ	1:w:317:LEU:HD21	2.47	0.50
1:z:667:LYS:NZ	1:4:370:ASP:OD1	2.44	0.50
1:2:550:ALA:HB1	1:2:554:THR:HG21	1.94	0.50
1:6:439:LEU:HD21	1:7:278:SER:HB2	1.94	0.50
1:B:284:PHE:CZ	1:B:317:LEU:HD21	2.47	0.50
1:D:278:SER:HB2	1:P:439:LEU:HD21	1.94	0.50
1:D:528:THR:HG23	1:D:564:GLU:H	1.75	0.50
1:E:550:ALA:HB1	1:E:554:THR:HG21	1.94	0.50
1:O:284:PHE:CZ	1:O:317:LEU:HD21	2.47	0.50
1:R:431:SER:HA	1:R:569:PRO:HB3	1.94	0.50
1:W:442:GLN:HA	1:Y:360:HIS:HA	1.93	0.50
1:W:701:GLN:H	1:X:703:THR:HG22	1.70	0.50
1:W:703:THR:CG2	1:X:701:GLN:N	2.50	0.50
1:Y:284:PHE:CZ	1:Y:317:LEU:HD21	2.47	0.50
1:Z:360:HIS:HA	1:3:442:GLN:HA	1.93	0.50
1:a:296:ARG:NE	1:3:699:GLU:HG2	2.26	0.50
1:b:550:ALA:HB1	1:b:554:THR:HG21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:284:PHE:CZ	1:c:317:LEU:HD21	2.47	0.50
1:c:550:ALA:HB1	1:c:554:THR:HG21	1.94	0.50
1:e:284:PHE:CZ	1:e:317:LEU:HD21	2.47	0.50
1:e:703:THR:HG1	1:f:703:THR:HG1	1.59	0.50
1:h:373:MET:HB2	1:i:668:PHE:CZ	2.47	0.50
1:h:699:GLU:HG2	1:k:296:ARG:NE	2.26	0.50
1:q:284:PHE:CZ	1:q:317:LEU:HD21	2.47	0.50
1:s:564:GLU:OE2	1:s:614:TYR:OH	2.20	0.50
1:t:370:ASP:OD1	1:6:667:LYS:NZ	2.45	0.50
1:v:667:LYS:NZ	1:1:370:ASP:OD1	2.45	0.50
1:z:278:SER:HB2	1:2:439:LEU:HD21	1.94	0.50
1:1:284:PHE:CZ	1:1:317:LEU:HD21	2.47	0.50
1:1:528:THR:HG23	1:1:564:GLU:H	1.76	0.50
1:5:278:SER:HB2	1:7:439:LEU:HD21	1.94	0.50
1:A:439:LEU:HD21	1:G:278:SER:HB2	1.93	0.49
1:E:380:LEU:HD13	1:F:434:ARG:HD2	1.94	0.49
1:F:667:LYS:NZ	1:R:370:ASP:OD1	2.45	0.49
1:H:284:PHE:CZ	1:H:317:LEU:HD21	2.47	0.49
1:H:370:ASP:OD1	1:I:667:LYS:NZ	2.45	0.49
1:I:550:ALA:HB1	1:I:554:THR:HG21	1.94	0.49
1:J:439:LEU:HD21	1:L:278:SER:HB2	1.94	0.49
1:K:370:ASP:OD1	1:L:667:LYS:NZ	2.44	0.49
1:M:373:MET:HB2	1:N:668:PHE:CZ	2.47	0.49
1:N:439:LEU:HD21	1:P:278:SER:HB2	1.94	0.49
1:S:701:GLN:CA	1:T:703:THR:HG23	2.42	0.49
1:a:442:GLN:HA	1:8:360:HIS:HA	1.93	0.49
1:e:550:ALA:HB1	1:e:554:THR:HG21	1.94	0.49
1:f:550:ALA:HB1	1:f:554:THR:HG21	1.94	0.49
1:i:439:LEU:HD21	1:j:278:SER:HB2	1.94	0.49
1:m:439:LEU:HD21	1:n:278:SER:HB2	1.94	0.49
1:m:703:THR:CG2	1:r:701:GLN:N	2.49	0.49
1:o:701:GLN:N	1:6:703:THR:CG2	2.50	0.49
1:q:370:ASP:OD1	1:y:667:LYS:NZ	2.45	0.49
1:q:431:SER:HA	1:q:569:PRO:HB3	1.95	0.49
1:s:550:ALA:HB1	1:s:554:THR:HG21	1.94	0.49
1:u:530:LYS:HG2	1:u:531:ASP:N	2.22	0.49
1:u:550:ALA:HB1	1:u:554:THR:HG21	1.94	0.49
1:7:284:PHE:CZ	1:7:317:LEU:HD21	2.47	0.49
1:C:439:LEU:HD21	1:b:278:SER:HB2	1.94	0.49
1:D:439:LEU:HD21	1:N:278:SER:HB2	1.94	0.49
1:K:510:LYS:HA	1:K:520:VAL:HG23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:667:LYS:NZ	1:7:370:ASP:OD1	2.45	0.49
1:M:550:ALA:HB1	1:M:554:THR:HG21	1.94	0.49
1:Q:431:SER:HA	1:Q:569:PRO:HB3	1.95	0.49
1:V:380:LEU:HD13	1:X:434:ARG:HD2	1.94	0.49
1:V:434:ARG:HD2	1:e:380:LEU:HD13	1.94	0.49
1:a:434:ARG:HD2	1:8:380:LEU:HD13	1.94	0.49
1:a:550:ALA:HB1	1:a:554:THR:HG21	1.94	0.49
1:e:530:LYS:HG2	1:e:531:ASP:N	2.22	0.49
1:g:360:HIS:HA	1:h:442:GLN:HA	1.93	0.49
1:h:550:ALA:HB1	1:h:554:THR:HG21	1.94	0.49
1:i:431:SER:HA	1:i:569:PRO:HB3	1.95	0.49
1:k:668:PHE:CZ	1:w:373:MET:HB2	2.47	0.49
1:m:431:SER:HA	1:m:569:PRO:HB3	1.94	0.49
1:o:284:PHE:CZ	1:o:317:LEU:HD21	2.47	0.49
1:p:528:THR:HG23	1:p:564:GLU:H	1.75	0.49
1:u:701:GLN:H	1:1:703:THR:HG22	1.69	0.49
1:w:320:ILE:HD13	1:w:342:ILE:HD11	1.95	0.49
1:w:380:LEU:HD13	1:y:434:ARG:HD2	1.95	0.49
1:w:550:ALA:HB1	1:w:554:THR:HG21	1.94	0.49
1:3:550:ALA:HB1	1:3:554:THR:HG21	1.94	0.49
1:5:284:PHE:CZ	1:5:317:LEU:HD21	2.47	0.49
1:B:528:THR:HG23	1:B:564:GLU:H	1.76	0.49
1:C:320:ILE:HD13	1:C:342:ILE:HD11	1.94	0.49
1:C:530:LYS:HG2	1:C:531:ASP:N	2.22	0.49
1:E:320:ILE:HD13	1:E:342:ILE:HD11	1.95	0.49
1:E:510:LYS:HA	1:E:520:VAL:HG23	1.92	0.49
1:F:284:PHE:CZ	1:F:317:LEU:HD21	2.47	0.49
1:G:284:PHE:CZ	1:G:317:LEU:HD21	2.47	0.49
1:H:278:SER:HB2	1:Y:439:LEU:HD21	1.94	0.49
1:H:431:SER:HA	1:H:569:PRO:HB3	1.95	0.49
1:H:668:PHE:CZ	1:Z:373:MET:HB2	2.48	0.49
1:L:320:ILE:HD13	1:L:342:ILE:HD11	1.95	0.49
1:N:431:SER:HA	1:N:569:PRO:HB3	1.95	0.49
1:Q:550:ALA:HB1	1:Q:554:THR:HG21	1.94	0.49
1:R:380:LEU:HD13	1:U:434:ARG:HD2	1.95	0.49
1:S:431:SER:HA	1:S:569:PRO:HB3	1.95	0.49
1:T:550:ALA:HB1	1:T:554:THR:HG21	1.94	0.49
1:U:320:ILE:HD13	1:U:342:ILE:HD11	1.95	0.49
1:U:550:ALA:HB1	1:U:554:THR:HG21	1.94	0.49
1:V:510:LYS:HA	1:V:520:VAL:HG23	1.93	0.49
1:V:528:THR:HG23	1:V:564:GLU:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:370:ASP:OD1	1:4:667:LYS:NZ	2.45	0.49
1:Z:380:LEU:HD13	1:3:434:ARG:HD2	1.94	0.49
1:g:418:GLU:OE2	1:g:642:LYS:N	2.43	0.49
1:l:431:SER:HA	1:l:569:PRO:HB3	1.95	0.49
1:m:370:ASP:OD1	1:s:667:LYS:NZ	2.44	0.49
1:r:431:SER:HA	1:r:569:PRO:HB3	1.94	0.49
1:s:320:ILE:HD13	1:s:342:ILE:HD11	1.95	0.49
1:t:284:PHE:CZ	1:t:317:LEU:HD21	2.47	0.49
1:x:431:SER:HA	1:x:569:PRO:HB3	1.95	0.49
1:z:320:ILE:HD13	1:z:342:ILE:HD11	1.95	0.49
1:1:431:SER:HA	1:1:569:PRO:HB3	1.94	0.49
1:3:284:PHE:CZ	1:3:317:LEU:HD21	2.47	0.49
1:4:510:LYS:HA	1:4:520:VAL:HG23	1.93	0.49
1:5:668:PHE:CZ	1:8:373:MET:HB2	2.48	0.49
1:B:439:LEU:HD21	1:J:278:SER:HB2	1.95	0.49
1:D:320:ILE:HD13	1:D:342:ILE:HD11	1.95	0.49
1:E:278:SER:HB2	1:F:439:LEU:HD21	1.94	0.49
1:F:370:ASP:OD1	1:G:667:LYS:NZ	2.45	0.49
1:G:431:SER:HA	1:G:569:PRO:HB3	1.94	0.49
1:I:431:SER:HA	1:I:569:PRO:HB3	1.95	0.49
1:J:701:GLN:CA	1:K:703:THR:HG23	2.43	0.49
1:K:550:ALA:HB1	1:K:554:THR:HG21	1.94	0.49
1:L:530:LYS:HG2	1:L:531:ASP:N	2.22	0.49
1:N:701:GLN:N	1:O:703:THR:CG2	2.50	0.49
1:O:360:HIS:HA	1:n:442:GLN:HA	1.93	0.49
1:T:431:SER:HA	1:T:569:PRO:HB3	1.95	0.49
1:W:320:ILE:HD13	1:W:342:ILE:HD11	1.95	0.49
1:X:284:PHE:CZ	1:X:317:LEU:HD21	2.47	0.49
1:a:431:SER:HA	1:a:569:PRO:HB3	1.95	0.49
1:e:320:ILE:HD13	1:e:342:ILE:HD11	1.95	0.49
1:e:373:MET:HB2	1:h:668:PHE:CZ	2.48	0.49
1:g:530:LYS:HG2	1:g:531:ASP:N	2.22	0.49
1:j:434:ARG:HD2	1:k:380:LEU:HD13	1.95	0.49
1:k:320:ILE:HD13	1:k:342:ILE:HD11	1.95	0.49
1:k:550:ALA:HB1	1:k:554:THR:HG21	1.94	0.49
1:m:550:ALA:HB1	1:m:554:THR:HG21	1.94	0.49
1:n:418:GLU:OE2	1:n:642:LYS:N	2.43	0.49
1:p:510:LYS:HA	1:p:520:VAL:HG23	1.92	0.49
1:q:380:LEU:HD13	1:s:434:ARG:HD2	1.95	0.49
1:r:434:ARG:HD2	1:s:380:LEU:HD13	1.94	0.49
1:u:431:SER:HA	1:u:569:PRO:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:701:GLN:CA	1:1:703:THR:HG23	2.42	0.49
1:v:373:MET:HB2	1:w:668:PHE:CZ	2.48	0.49
1:w:278:SER:HB2	1:y:439:LEU:HD21	1.94	0.49
1:x:550:ALA:HB1	1:x:554:THR:HG21	1.94	0.49
1:y:284:PHE:CZ	1:y:317:LEU:HD21	2.47	0.49
1:2:701:GLN:CA	1:4:703:THR:HG23	2.43	0.49
1:3:431:SER:HA	1:3:569:PRO:HB3	1.95	0.49
1:4:550:ALA:HB1	1:4:554:THR:HG21	1.94	0.49
1:5:431:SER:HA	1:5:569:PRO:HB3	1.95	0.49
1:6:320:ILE:HD13	1:6:342:ILE:HD11	1.95	0.49
1:B:431:SER:HA	1:B:569:PRO:HB3	1.95	0.49
1:B:668:PHE:CZ	1:C:373:MET:HB2	2.48	0.49
1:C:360:HIS:HA	1:M:442:GLN:HA	1.93	0.49
1:D:296:ARG:NE	1:M:699:GLU:HG2	2.26	0.49
1:D:380:LEU:HD13	1:P:434:ARG:HD2	1.95	0.49
1:D:550:ALA:HB1	1:D:554:THR:HG21	1.94	0.49
1:E:703:THR:HG23	1:P:701:GLN:CA	2.43	0.49
1:H:320:ILE:HD13	1:H:342:ILE:HD11	1.95	0.49
1:K:278:SER:HB2	1:8:439:LEU:HD21	1.95	0.49
1:K:434:ARG:HD2	1:a:380:LEU:HD13	1.94	0.49
1:M:320:ILE:HD13	1:M:342:ILE:HD11	1.95	0.49
1:M:668:PHE:CZ	1:c:373:MET:HB2	2.48	0.49
1:O:431:SER:HA	1:O:569:PRO:HB3	1.95	0.49
1:O:434:ARG:HD2	1:m:380:LEU:HD13	1.94	0.49
1:P:320:ILE:HD13	1:P:342:ILE:HD11	1.95	0.49
1:P:373:MET:HB2	1:Q:668:PHE:CZ	2.47	0.49
1:S:434:ARG:HD2	1:U:380:LEU:HD13	1.94	0.49
1:S:550:ALA:HB1	1:S:554:THR:HG21	1.94	0.49
1:U:370:ASP:OD1	1:e:667:LYS:NZ	2.45	0.49
1:V:284:PHE:CZ	1:V:317:LEU:HD21	2.47	0.49
1:Z:439:LEU:HD21	1:4:278:SER:HB2	1.95	0.49
1:a:284:PHE:CZ	1:a:317:LEU:HD21	2.47	0.49
1:c:320:ILE:HD13	1:c:342:ILE:HD11	1.95	0.49
1:c:667:LYS:NZ	1:s:370:ASP:OD1	2.45	0.49
1:d:431:SER:HA	1:d:569:PRO:HB3	1.95	0.49
1:d:442:GLN:HA	1:l:360:HIS:HA	1.93	0.49
1:k:418:GLU:OE2	1:k:642:LYS:N	2.43	0.49
1:m:284:PHE:CZ	1:m:317:LEU:HD21	2.47	0.49
1:n:431:SER:HA	1:n:569:PRO:HB3	1.95	0.49
1:p:284:PHE:CZ	1:p:317:LEU:HD21	2.47	0.49
1:p:550:ALA:HB1	1:p:554:THR:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:373:MET:HB2	1:2:668:PHE:CZ	2.48	0.49
1:u:439:LEU:HD21	1:v:278:SER:HB2	1.93	0.49
1:1:439:LEU:HD21	1:2:278:SER:HB2	1.95	0.49
1:5:434:ARG:HD2	1:6:380:LEU:HD13	1.95	0.49
1:C:380:LEU:HD13	1:M:434:ARG:HD2	1.95	0.49
1:C:418:GLU:OE2	1:C:642:LYS:N	2.43	0.49
1:D:418:GLU:OE2	1:D:642:LYS:N	2.43	0.49
1:G:373:MET:HB2	1:W:668:PHE:CZ	2.47	0.49
1:H:434:ARG:HD2	1:W:380:LEU:HD13	1.95	0.49
1:H:550:ALA:HB1	1:H:554:THR:HG21	1.94	0.49
1:I:373:MET:HB2	1:J:668:PHE:CZ	2.48	0.49
1:K:431:SER:HA	1:K:569:PRO:HB3	1.94	0.49
1:M:380:LEU:HD13	1:b:434:ARG:HD2	1.95	0.49
1:N:701:GLN:CA	1:O:703:THR:HG23	2.43	0.49
1:P:510:LYS:HA	1:P:520:VAL:HG23	1.93	0.49
1:T:278:SER:HB2	1:l:439:LEU:HD21	1.94	0.49
1:T:284:PHE:CZ	1:T:317:LEU:HD21	2.47	0.49
1:U:373:MET:HB2	1:e:668:PHE:CZ	2.48	0.49
1:V:550:ALA:HB1	1:V:554:THR:HG21	1.94	0.49
1:c:380:LEU:HD13	1:p:434:ARG:HD2	1.95	0.49
1:c:668:PHE:CZ	1:s:373:MET:HB2	2.48	0.49
1:d:418:GLU:OE2	1:d:642:LYS:N	2.43	0.49
1:g:320:ILE:HD13	1:g:342:ILE:HD11	1.95	0.49
1:i:550:ALA:HB1	1:i:554:THR:HG21	1.94	0.49
1:j:320:ILE:HD13	1:j:342:ILE:HD11	1.95	0.49
1:j:510:LYS:HA	1:j:520:VAL:HG23	1.93	0.49
1:j:701:GLN:CA	1:w:703:THR:HG23	2.43	0.49
1:p:668:PHE:CZ	1:6:373:MET:HB2	2.48	0.49
1:r:550:ALA:HB1	1:r:554:THR:HG21	1.94	0.49
1:t:431:SER:HA	1:t:569:PRO:HB3	1.95	0.49
1:v:701:GLN:CA	1:y:703:THR:HG23	2.43	0.49
1:w:510:LYS:HA	1:w:520:VAL:HG23	1.93	0.49
1:x:320:ILE:HD13	1:x:342:ILE:HD11	1.95	0.49
1:2:320:ILE:HD13	1:2:342:ILE:HD11	1.95	0.49
1:2:373:MET:HB2	1:3:668:PHE:CZ	2.48	0.49
1:3:380:LEU:HD13	1:4:434:ARG:HD2	1.94	0.49
1:4:431:SER:HA	1:4:569:PRO:HB3	1.94	0.49
1:5:320:ILE:HD13	1:5:342:ILE:HD11	1.95	0.49
1:F:278:SER:HB2	1:Q:439:LEU:HD21	1.93	0.49
1:F:373:MET:HB2	1:G:668:PHE:CZ	2.48	0.49
1:I:320:ILE:HD13	1:I:342:ILE:HD11	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:320:ILE:HD13	1:J:342:ILE:HD11	1.95	0.49
1:J:373:MET:HB2	1:a:668:PHE:CZ	2.48	0.49
1:N:373:MET:HB2	1:m:668:PHE:CZ	2.48	0.49
1:O:380:LEU:HD13	1:n:434:ARG:HD2	1.94	0.49
1:R:320:ILE:HD13	1:R:342:ILE:HD11	1.95	0.49
1:T:439:LEU:HD21	1:d:278:SER:HB2	1.94	0.49
1:U:431:SER:HA	1:U:569:PRO:HB3	1.95	0.49
1:U:701:GLN:CA	1:V:703:THR:HG23	2.43	0.49
1:b:622:LYS:HB2	1:b:644:PRO:HG3	1.95	0.49
1:c:439:LEU:HD21	1:o:278:SER:HB2	1.94	0.49
1:f:434:ARG:HD2	1:h:380:LEU:HD13	1.95	0.49
1:h:320:ILE:HD13	1:h:342:ILE:HD11	1.95	0.49
1:j:373:MET:HB2	1:x:668:PHE:CZ	2.47	0.49
1:m:373:MET:HB2	1:s:668:PHE:CZ	2.48	0.49
1:o:434:ARG:HD2	1:p:380:LEU:HD13	1.95	0.49
1:p:622:LYS:HB2	1:p:644:PRO:HG3	1.95	0.49
1:q:320:ILE:HD13	1:q:342:ILE:HD11	1.95	0.49
1:q:434:ARG:HD2	1:r:380:LEU:HD13	1.94	0.49
1:r:284:PHE:CZ	1:r:317:LEU:HD21	2.47	0.49
1:s:431:SER:HA	1:s:569:PRO:HB3	1.95	0.49
1:t:373:MET:HB2	1:6:668:PHE:CZ	2.47	0.49
1:t:668:PHE:CZ	1:y:373:MET:HB2	2.48	0.49
1:u:320:ILE:HD13	1:u:342:ILE:HD11	1.95	0.49
1:z:530:LYS:HG2	1:z:531:ASP:N	2.22	0.49
1:5:550:ALA:HB1	1:5:554:THR:HG21	1.94	0.49
1:A:373:MET:HB2	1:E:668:PHE:CZ	2.48	0.49
1:A:699:GLU:HG2	1:F:296:ARG:NE	2.27	0.49
1:B:703:THR:HG23	1:I:701:GLN:CA	2.42	0.49
1:E:701:GLN:CA	1:P:703:THR:HG23	2.43	0.49
1:F:431:SER:HA	1:F:569:PRO:HB3	1.94	0.49
1:N:550:ALA:HB1	1:N:554:THR:HG21	1.94	0.49
1:Q:320:ILE:HD13	1:Q:342:ILE:HD11	1.95	0.49
1:R:434:ARG:HD2	1:S:380:LEU:HD13	1.94	0.49
1:S:284:PHE:CZ	1:S:317:LEU:HD21	2.47	0.49
1:T:434:ARG:HD2	1:d:380:LEU:HD13	1.94	0.49
1:U:703:THR:HG23	1:V:701:GLN:CA	2.42	0.49
1:V:622:LYS:HB2	1:V:644:PRO:HG3	1.95	0.49
1:X:278:SER:HB2	1:e:439:LEU:HD21	1.94	0.49
1:Y:373:MET:HB2	1:4:668:PHE:CZ	2.47	0.49
1:a:320:ILE:HD13	1:a:342:ILE:HD11	1.95	0.49
1:i:701:GLN:CA	1:l:703:THR:HG23	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:703:THR:HG23	1:w:701:GLN:CA	2.43	0.49
1:o:373:MET:HB2	1:7:668:PHE:CZ	2.47	0.49
1:t:667:LYS:NZ	1:y:370:ASP:OD1	2.45	0.49
1:u:434:ARG:HD2	1:v:380:LEU:HD13	1.95	0.49
1:z:434:ARG:HD2	1:1:380:LEU:HD13	1.95	0.49
1:3:373:MET:HB2	1:8:668:PHE:CZ	2.48	0.49
1:7:701:GLN:CA	1:8:703:THR:HG23	2.43	0.49
1:B:380:LEU:HD13	1:L:434:ARG:HD2	1.95	0.49
1:B:703:THR:CG2	1:I:701:GLN:N	2.49	0.49
1:G:530:LYS:HG2	1:G:531:ASP:N	2.22	0.49
1:M:278:SER:HB2	1:b:439:LEU:HD21	1.94	0.49
1:R:278:SER:HB2	1:U:439:LEU:HD21	1.94	0.49
1:R:439:LEU:HD21	1:S:278:SER:HB2	1.95	0.49
1:T:373:MET:HB2	1:U:668:PHE:CZ	2.48	0.49
1:V:320:ILE:HD13	1:V:342:ILE:HD11	1.95	0.49
1:V:431:SER:HA	1:V:569:PRO:HB3	1.94	0.49
1:X:373:MET:HB2	1:Y:668:PHE:CZ	2.47	0.49
1:Y:701:GLN:CA	1:Z:703:THR:HG23	2.43	0.49
1:Z:668:PHE:CZ	1:a:373:MET:HB2	2.48	0.49
1:b:320:ILE:HD13	1:b:342:ILE:HD11	1.95	0.49
1:d:434:ARG:HD2	1:l:380:LEU:HD13	1.95	0.49
1:f:622:LYS:HB2	1:f:644:PRO:HG3	1.95	0.49
1:m:703:THR:HG23	1:r:701:GLN:CA	2.43	0.49
1:p:530:LYS:HG2	1:p:531:ASP:N	2.22	0.49
1:u:668:PHE:CZ	1:5:373:MET:HB2	2.47	0.49
1:v:656:PRO:HD2	1:1:677:THR:HG21	1.95	0.49
1:v:668:PHE:CZ	1:1:373:MET:HB2	2.48	0.49
1:v:703:THR:HG23	1:y:701:GLN:CA	2.43	0.49
1:x:439:LEU:HD21	1:y:278:SER:HB2	1.94	0.49
1:y:431:SER:HA	1:y:569:PRO:HB3	1.94	0.49
1:1:434:ARG:HD2	1:2:380:LEU:HD13	1.94	0.49
1:3:320:ILE:HD13	1:3:342:ILE:HD11	1.95	0.49
1:B:320:ILE:HD13	1:B:342:ILE:HD11	1.95	0.49
1:B:564:GLU:OE2	1:B:614:TYR:OH	2.20	0.49
1:B:703:THR:HG22	1:I:701:GLN:H	1.69	0.49
1:D:656:PRO:HD2	1:E:677:THR:HG21	1.95	0.49
1:E:439:LEU:HD21	1:Q:278:SER:HB2	1.95	0.49
1:F:668:PHE:CZ	1:R:373:MET:HB2	2.48	0.49
1:G:320:ILE:HD13	1:G:342:ILE:HD11	1.94	0.49
1:K:668:PHE:CZ	1:7:373:MET:HB2	2.48	0.49
1:O:373:MET:HB2	1:P:668:PHE:CZ	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:550:ALA:HB1	1:O:554:THR:HG21	1.94	0.49
1:O:677:THR:HG21	1:P:656:PRO:HD2	1.95	0.49
1:Q:530:LYS:HG2	1:Q:531:ASP:N	2.22	0.49
1:S:373:MET:HB2	1:d:668:PHE:CZ	2.48	0.49
1:T:370:ASP:OD1	1:U:667:LYS:NZ	2.45	0.49
1:V:530:LYS:HG2	1:V:531:ASP:N	2.22	0.49
1:e:701:GLN:CA	1:f:703:THR:HG23	2.43	0.49
1:g:550:ALA:HB1	1:g:554:THR:HG21	1.94	0.49
1:i:701:GLN:N	1:l:703:THR:CG2	2.50	0.49
1:j:668:PHE:CZ	1:l:373:MET:HB2	2.48	0.49
1:k:431:SER:HA	1:k:569:PRO:HB3	1.95	0.49
1:l:550:ALA:HB1	1:l:554:THR:HG21	1.94	0.49
1:p:320:ILE:HD13	1:p:342:ILE:HD11	1.95	0.49
1:p:703:THR:HG23	1:s:701:GLN:CA	2.43	0.49
1:q:373:MET:HB2	1:y:668:PHE:CZ	2.48	0.49
1:t:278:SER:HB2	1:v:439:LEU:HD21	1.94	0.49
1:t:320:ILE:HD13	1:t:342:ILE:HD11	1.95	0.49
1:w:439:LEU:HD21	1:x:278:SER:HB2	1.95	0.49
1:1:320:ILE:HD13	1:1:342:ILE:HD11	1.95	0.49
1:1:564:GLU:OE2	1:1:614:TYR:OH	2.20	0.49
1:2:431:SER:HA	1:2:569:PRO:HB3	1.94	0.49
1:A:427:ALA:O	1:A:734:THR:HA	2.13	0.48
1:B:434:ARG:HD2	1:J:380:LEU:HD13	1.94	0.48
1:D:431:SER:HA	1:D:569:PRO:HB3	1.95	0.48
1:E:431:SER:HA	1:E:569:PRO:HB3	1.95	0.48
1:E:530:LYS:HG2	1:E:531:ASP:N	2.22	0.48
1:H:373:MET:HB2	1:I:668:PHE:CZ	2.48	0.48
1:J:431:SER:HA	1:J:569:PRO:HB3	1.95	0.48
1:J:703:THR:HG1	1:K:703:THR:HG1	1.60	0.48
1:T:668:PHE:CZ	1:i:373:MET:HB2	2.48	0.48
1:V:278:SER:HB2	1:X:439:LEU:HD21	1.94	0.48
1:Z:320:ILE:HD13	1:Z:342:ILE:HD11	1.95	0.48
1:b:703:THR:HG23	1:c:701:GLN:CA	2.43	0.48
1:f:320:ILE:HD13	1:f:342:ILE:HD11	1.95	0.48
1:f:439:LEU:HD21	1:h:278:SER:HB2	1.94	0.48
1:j:656:PRO:HD2	1:l:677:THR:HG21	1.95	0.48
1:n:668:PHE:CZ	1:r:373:MET:HB2	2.48	0.48
1:p:431:SER:HA	1:p:569:PRO:HB3	1.95	0.48
1:q:278:SER:HB2	1:s:439:LEU:HD21	1.94	0.48
1:q:439:LEU:HD21	1:r:278:SER:HB2	1.95	0.48
1:t:439:LEU:HD21	1:u:278:SER:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:701:GLN:N	1:1:703:THR:CG2	2.49	0.48
1:v:427:ALA:O	1:v:734:THR:HA	2.13	0.48
1:w:530:LYS:HG2	1:w:531:ASP:N	2.22	0.48
1:7:431:SER:HA	1:7:569:PRO:HB3	1.94	0.48
1:8:431:SER:HA	1:8:569:PRO:HB3	1.95	0.48
1:A:431:SER:HA	1:A:569:PRO:HB3	1.95	0.48
1:C:550:ALA:HB1	1:C:554:THR:HG21	1.94	0.48
1:F:622:LYS:HB2	1:F:644:PRO:HG3	1.95	0.48
1:L:427:ALA:O	1:L:734:THR:HA	2.13	0.48
1:N:284:PHE:CZ	1:N:317:LEU:HD21	2.47	0.48
1:O:439:LEU:HD21	1:m:278:SER:HB2	1.95	0.48
1:O:656:PRO:HD2	1:d:677:THR:HG21	1.95	0.48
1:P:431:SER:HA	1:P:569:PRO:HB3	1.95	0.48
1:R:622:LYS:HB2	1:R:644:PRO:HG3	1.95	0.48
1:R:668:PHE:CZ	1:V:373:MET:HB2	2.48	0.48
1:V:668:PHE:CZ	1:W:373:MET:HB2	2.48	0.48
1:X:622:LYS:HB2	1:X:644:PRO:HG3	1.95	0.48
1:Y:431:SER:HA	1:Y:569:PRO:HB3	1.95	0.48
1:Z:431:SER:HA	1:Z:569:PRO:HB3	1.95	0.48
1:Z:622:LYS:HB2	1:Z:644:PRO:HG3	1.95	0.48
1:b:427:ALA:O	1:b:734:THR:HA	2.13	0.48
1:f:668:PHE:CZ	1:z:373:MET:HB2	2.48	0.48
1:i:284:PHE:CZ	1:i:317:LEU:HD21	2.47	0.48
1:k:656:PRO:HD2	1:w:677:THR:HG21	1.95	0.48
1:l:656:PRO:HD2	1:n:677:THR:HG21	1.95	0.48
1:o:622:LYS:HB2	1:o:644:PRO:HG3	1.95	0.48
1:p:701:GLN:CA	1:s:703:THR:HG23	2.43	0.48
1:q:622:LYS:HB2	1:q:644:PRO:HG3	1.95	0.48
1:r:564:GLU:OE2	1:r:614:TYR:OH	2.20	0.48
1:t:380:LEU:HD13	1:v:434:ARG:HD2	1.94	0.48
1:t:530:LYS:HG2	1:t:531:ASP:N	2.22	0.48
1:u:427:ALA:O	1:u:734:THR:HA	2.13	0.48
1:w:431:SER:HA	1:w:569:PRO:HB3	1.95	0.48
1:y:427:ALA:O	1:y:734:THR:HA	2.13	0.48
1:2:703:THR:CG2	1:4:701:GLN:N	2.50	0.48
1:8:320:ILE:HD13	1:8:342:ILE:HD11	1.95	0.48
1:8:622:LYS:HB2	1:8:644:PRO:HG3	1.95	0.48
1:A:320:ILE:HD13	1:A:342:ILE:HD11	1.95	0.48
1:A:442:GLN:HA	1:G:360:HIS:HA	1.95	0.48
1:D:427:ALA:O	1:D:734:THR:HA	2.13	0.48
1:G:427:ALA:O	1:G:734:THR:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:439:LEU:HD21	1:I:278:SER:HB2	1.95	0.48
1:I:427:ALA:O	1:I:734:THR:HA	2.14	0.48
1:K:427:ALA:O	1:K:734:THR:HA	2.14	0.48
1:N:427:ALA:O	1:N:734:THR:HA	2.14	0.48
1:O:668:PHE:CZ	1:d:373:MET:HB2	2.48	0.48
1:P:427:ALA:O	1:P:734:THR:HA	2.13	0.48
1:R:550:ALA:HB1	1:R:554:THR:HG21	1.94	0.48
1:V:439:LEU:HD21	1:e:278:SER:HB2	1.94	0.48
1:X:668:PHE:CZ	1:f:373:MET:HB2	2.48	0.48
1:Z:278:SER:HB2	1:3:439:LEU:HD21	1.94	0.48
1:b:373:MET:HB2	1:o:668:PHE:CZ	2.48	0.48
1:d:622:LYS:HB2	1:d:644:PRO:HG3	1.95	0.48
1:f:427:ALA:O	1:f:734:THR:HA	2.13	0.48
1:i:427:ALA:O	1:i:734:THR:HA	2.14	0.48
1:j:427:ALA:O	1:j:734:THR:HA	2.13	0.48
1:l:427:ALA:O	1:l:734:THR:HA	2.13	0.48
1:l:668:PHE:CZ	1:n:373:MET:HB2	2.48	0.48
1:p:373:MET:HB2	1:q:668:PHE:CZ	2.48	0.48
1:v:320:ILE:HD13	1:v:342:ILE:HD11	1.95	0.48
1:v:431:SER:HA	1:v:569:PRO:HB3	1.94	0.48
1:x:530:LYS:HG2	1:x:531:ASP:N	2.22	0.48
1:y:622:LYS:HB2	1:y:644:PRO:HG3	1.95	0.48
1:1:427:ALA:O	1:1:734:THR:HA	2.13	0.48
1:4:427:ALA:O	1:4:734:THR:HA	2.14	0.48
1:A:677:THR:HG21	1:E:656:PRO:HD2	1.95	0.48
1:B:427:ALA:O	1:B:734:THR:HA	2.14	0.48
1:C:668:PHE:CZ	1:D:373:MET:HB2	2.48	0.48
1:F:427:ALA:O	1:F:734:THR:HA	2.14	0.48
1:H:439:LEU:HD21	1:W:278:SER:HB2	1.94	0.48
1:K:373:MET:HB2	1:L:668:PHE:CZ	2.48	0.48
1:K:656:PRO:HD2	1:7:677:THR:HG21	1.96	0.48
1:L:373:MET:HB2	1:b:668:PHE:CZ	2.48	0.48
1:N:703:THR:HG22	1:O:701:GLN:H	1.70	0.48
1:P:550:ALA:HB1	1:P:554:THR:HG21	1.94	0.48
1:Q:373:MET:HB2	1:S:668:PHE:CZ	2.48	0.48
1:T:677:THR:HG21	1:U:656:PRO:HD2	1.95	0.48
1:V:427:ALA:O	1:V:734:THR:HA	2.14	0.48
1:W:427:ALA:O	1:W:734:THR:HA	2.14	0.48
1:X:427:ALA:O	1:X:734:THR:HA	2.14	0.48
1:Y:677:THR:HG21	1:4:656:PRO:HD2	1.96	0.48
1:c:278:SER:HB2	1:p:439:LEU:HD21	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:703:THR:HG22	1:l:701:GLN:H	1.70	0.48
1:p:656:PRO:HD2	1:6:677:THR:HG21	1.96	0.48
1:q:550:ALA:HB1	1:q:554:THR:HG21	1.94	0.48
1:t:427:ALA:O	1:t:734:THR:HA	2.14	0.48
1:v:622:LYS:HB2	1:v:644:PRO:HG3	1.95	0.48
1:z:427:ALA:O	1:z:734:THR:HA	2.14	0.48
1:6:427:ALA:O	1:6:734:THR:HA	2.14	0.48
1:A:622:LYS:HB2	1:A:644:PRO:HG3	1.95	0.48
1:D:434:ARG:HD2	1:N:380:LEU:HD13	1.95	0.48
1:F:677:THR:HG21	1:G:656:PRO:HD2	1.95	0.48
1:H:380:LEU:HD13	1:Y:434:ARG:HD2	1.95	0.48
1:J:622:LYS:HB2	1:J:644:PRO:HG3	1.95	0.48
1:L:677:THR:HG21	1:b:656:PRO:HD2	1.95	0.48
1:N:320:ILE:HD13	1:N:342:ILE:HD11	1.95	0.48
1:O:427:ALA:O	1:O:734:THR:HA	2.14	0.48
1:O:622:LYS:HB2	1:O:644:PRO:HG3	1.95	0.48
1:P:530:LYS:HG2	1:P:531:ASP:N	2.22	0.48
1:Q:677:THR:HG21	1:S:656:PRO:HD2	1.96	0.48
1:S:367:PHE:CE2	1:S:369:ALA:HB3	2.49	0.48
1:W:622:LYS:HB2	1:W:644:PRO:HG3	1.95	0.48
1:Y:550:ALA:HB1	1:Y:554:THR:HG21	1.94	0.48
1:a:439:LEU:HD21	1:8:278:SER:HB2	1.94	0.48
1:a:703:THR:HG23	1:3:701:GLN:CA	2.43	0.48
1:h:431:SER:HA	1:h:569:PRO:HB3	1.95	0.48
1:i:380:LEU:HD13	1:k:434:ARG:HD2	1.95	0.48
1:i:703:THR:HG23	1:l:701:GLN:CA	2.43	0.48
1:j:431:SER:HA	1:j:569:PRO:HB3	1.95	0.48
1:j:550:ALA:HB1	1:j:554:THR:HG21	1.94	0.48
1:j:622:LYS:HB2	1:j:644:PRO:HG3	1.95	0.48
1:k:427:ALA:O	1:k:734:THR:HA	2.14	0.48
1:n:622:LYS:HB2	1:n:644:PRO:HG3	1.95	0.48
1:o:367:PHE:CE2	1:o:369:ALA:HB3	2.49	0.48
1:o:427:ALA:O	1:o:734:THR:HA	2.14	0.48
1:p:427:ALA:O	1:p:734:THR:HA	2.14	0.48
1:p:703:THR:HG1	1:s:703:THR:HG1	1.60	0.48
1:r:367:PHE:CE2	1:r:369:ALA:HB3	2.49	0.48
1:t:656:PRO:HD2	1:y:677:THR:HG21	1.95	0.48
1:w:434:ARG:HD2	1:x:380:LEU:HD13	1.94	0.48
1:z:622:LYS:HB2	1:z:644:PRO:HG3	1.95	0.48
1:z:668:PHE:CZ	1:4:373:MET:HB2	2.48	0.48
1:3:427:ALA:O	1:3:734:THR:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:550:ALA:HB1	1:8:554:THR:HG21	1.94	0.48
1:A:434:ARG:HD2	1:G:380:LEU:HD13	1.95	0.48
1:F:320:ILE:HD13	1:F:342:ILE:HD11	1.95	0.48
1:J:367:PHE:CE2	1:J:369:ALA:HB3	2.49	0.48
1:J:427:ALA:O	1:J:734:THR:HA	2.13	0.48
1:J:703:THR:CG2	1:K:701:GLN:N	2.50	0.48
1:K:380:LEU:HD13	1:8:434:ARG:HD2	1.94	0.48
1:L:622:LYS:HB2	1:L:644:PRO:HG3	1.95	0.48
1:M:431:SER:HA	1:M:569:PRO:HB3	1.95	0.48
1:N:703:THR:HG23	1:O:701:GLN:CA	2.43	0.48
1:P:622:LYS:HB2	1:P:644:PRO:HG3	1.95	0.48
1:Q:701:GLN:CA	1:R:703:THR:HG23	2.42	0.48
1:S:564:GLU:OE2	1:S:614:TYR:OH	2.20	0.48
1:U:367:PHE:CE2	1:U:369:ALA:HB3	2.49	0.48
1:Y:427:ALA:O	1:Y:734:THR:HA	2.14	0.48
1:a:427:ALA:O	1:a:734:THR:HA	2.14	0.48
1:a:701:GLN:CA	1:3:703:THR:HG23	2.43	0.48
1:a:703:THR:HG1	1:3:703:THR:HG1	1.62	0.48
1:f:656:PRO:HD2	1:z:677:THR:HG21	1.95	0.48
1:i:320:ILE:HD13	1:i:342:ILE:HD11	1.95	0.48
1:l:367:PHE:CE2	1:l:369:ALA:HB3	2.49	0.48
1:l:622:LYS:HB2	1:l:644:PRO:HG3	1.95	0.48
1:o:439:LEU:HD21	1:p:278:SER:HB2	1.95	0.48
1:r:427:ALA:O	1:r:734:THR:HA	2.13	0.48
1:r:668:PHE:CZ	1:x:373:MET:HB2	2.48	0.48
1:s:367:PHE:CE2	1:s:369:ALA:HB3	2.49	0.48
1:1:550:ALA:HB1	1:1:554:THR:HG21	1.94	0.48
1:1:622:LYS:HB2	1:1:644:PRO:HG3	1.95	0.48
1:2:427:ALA:O	1:2:734:THR:HA	2.14	0.48
1:2:622:LYS:HB2	1:2:644:PRO:HG3	1.95	0.48
1:5:439:LEU:HD21	1:6:278:SER:HB2	1.94	0.48
1:7:427:ALA:O	1:7:734:THR:HA	2.14	0.48
1:7:550:ALA:HB1	1:7:554:THR:HG21	1.94	0.48
1:B:550:ALA:HB1	1:B:554:THR:HG21	1.94	0.48
1:B:622:LYS:HB2	1:B:644:PRO:HG3	1.95	0.48
1:B:703:THR:HG1	1:I:703:THR:HG1	1.59	0.48
1:D:367:PHE:CE2	1:D:369:ALA:HB3	2.49	0.48
1:F:367:PHE:CE2	1:F:369:ALA:HB3	2.49	0.48
1:G:703:THR:HG23	1:H:701:GLN:CA	2.43	0.48
1:H:367:PHE:CE2	1:H:369:ALA:HB3	2.49	0.48
1:J:434:ARG:HD2	1:L:380:LEU:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:367:PHE:CE2	1:K:369:ALA:HB3	2.49	0.48
1:O:367:PHE:CE2	1:O:369:ALA:HB3	2.49	0.48
1:S:427:ALA:O	1:S:734:THR:HA	2.14	0.48
1:U:703:THR:HG1	1:V:703:THR:HG1	1.60	0.48
1:X:367:PHE:CE2	1:X:369:ALA:HB3	2.49	0.48
1:Z:550:ALA:HB1	1:Z:554:THR:HG21	1.94	0.48
1:d:320:ILE:HD13	1:d:342:ILE:HD11	1.95	0.48
1:d:701:GLN:CA	1:n:703:THR:HG23	2.43	0.48
1:d:703:THR:HG23	1:n:701:GLN:CA	2.43	0.48
1:f:431:SER:HA	1:f:569:PRO:HB3	1.95	0.48
1:h:677:THR:HG21	1:i:656:PRO:HD2	1.95	0.48
1:y:320:ILE:HD13	1:y:342:ILE:HD11	1.95	0.48
1:y:367:PHE:CE2	1:y:369:ALA:HB3	2.49	0.48
1:2:367:PHE:CE2	1:2:369:ALA:HB3	2.49	0.48
1:4:367:PHE:CE2	1:4:369:ALA:HB3	2.49	0.48
1:5:380:LEU:HD13	1:7:434:ARG:HD2	1.95	0.48
1:F:502:ASN:HA	1:Q:450:THR:OG1	2.14	0.48
1:G:434:ARG:HD2	1:I:380:LEU:HD13	1.94	0.48
1:H:622:LYS:HB2	1:H:644:PRO:HG3	1.95	0.48
1:K:320:ILE:HD13	1:K:342:ILE:HD11	1.95	0.48
1:Q:367:PHE:CE2	1:Q:369:ALA:HB3	2.49	0.48
1:Q:622:LYS:HB2	1:Q:644:PRO:HG3	1.95	0.48
1:T:622:LYS:HB2	1:T:644:PRO:HG3	1.95	0.48
1:X:320:ILE:HD13	1:X:342:ILE:HD11	1.94	0.48
1:X:677:THR:HG21	1:Y:656:PRO:HD2	1.95	0.48
1:Z:434:ARG:HD2	1:4:380:LEU:HD13	1.95	0.48
1:b:431:SER:HA	1:b:569:PRO:HB3	1.95	0.48
1:e:431:SER:HA	1:e:569:PRO:HB3	1.94	0.48
1:g:622:LYS:HB2	1:g:644:PRO:HG3	1.95	0.48
1:h:622:LYS:HB2	1:h:644:PRO:HG3	1.95	0.48
1:j:530:LYS:HG2	1:j:531:ASP:N	2.22	0.48
1:k:367:PHE:CE2	1:k:369:ALA:HB3	2.49	0.48
1:m:677:THR:HG21	1:s:656:PRO:HD2	1.96	0.48
1:n:320:ILE:HD13	1:n:342:ILE:HD11	1.95	0.48
1:o:701:GLN:CA	1:6:703:THR:HG23	2.43	0.48
1:o:703:THR:HG23	1:6:701:GLN:CA	2.43	0.48
1:t:434:ARG:HD2	1:u:380:LEU:HD13	1.94	0.48
1:t:703:THR:HG23	1:5:701:GLN:CA	2.43	0.48
1:u:450:THR:OG1	1:v:502:ASN:HA	2.14	0.48
1:v:550:ALA:HB1	1:v:554:THR:HG21	1.94	0.48
1:x:427:ALA:O	1:x:734:THR:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:434:ARG:HD2	1:y:380:LEU:HD13	1.94	0.48
1:x:622:LYS:HB2	1:x:644:PRO:HG3	1.95	0.48
1:4:320:ILE:HD13	1:4:342:ILE:HD11	1.95	0.48
1:6:622:LYS:HB2	1:6:644:PRO:HG3	1.95	0.48
1:7:320:ILE:HD13	1:7:342:ILE:HD11	1.95	0.48
1:A:667:LYS:NZ	1:B:370:ASP:OD1	2.47	0.48
1:C:434:ARG:HD2	1:b:380:LEU:HD13	1.95	0.48
1:C:622:LYS:HB2	1:C:644:PRO:HG3	1.95	0.48
1:E:434:ARG:HD2	1:Q:380:LEU:HD13	1.94	0.48
1:F:550:ALA:HB1	1:F:554:THR:HG21	1.94	0.48
1:H:450:THR:OG1	1:W:502:ASN:HA	2.14	0.48
1:I:564:GLU:OE2	1:I:614:TYR:OH	2.20	0.48
1:M:622:LYS:HB2	1:M:644:PRO:HG3	1.95	0.48
1:M:677:THR:HG21	1:N:656:PRO:HD2	1.95	0.48
1:O:320:ILE:HD13	1:O:342:ILE:HD11	1.95	0.48
1:Q:427:ALA:O	1:Q:734:THR:HA	2.14	0.48
1:R:502:ASN:HA	1:U:450:THR:OG1	2.14	0.48
1:T:502:ASN:HA	1:l:450:THR:OG1	2.14	0.48
1:W:701:GLN:CA	1:X:703:THR:HG23	2.43	0.48
1:Z:427:ALA:O	1:Z:734:THR:HA	2.13	0.48
1:b:701:GLN:CA	1:c:703:THR:HG23	2.43	0.48
1:c:431:SER:HA	1:c:569:PRO:HB3	1.95	0.48
1:d:367:PHE:CE2	1:d:369:ALA:HB3	2.49	0.48
1:e:703:THR:HG23	1:f:701:GLN:CA	2.43	0.48
1:g:373:MET:HB2	1:1:668:PHE:CZ	2.49	0.48
1:i:450:THR:OG1	1:j:502:ASN:HA	2.14	0.48
1:m:434:ARG:HD2	1:n:380:LEU:HD13	1.95	0.48
1:m:622:LYS:HB2	1:m:644:PRO:HG3	1.95	0.48
1:q:703:THR:HG23	1:x:701:GLN:CA	2.43	0.48
1:r:656:PRO:HD2	1:x:677:THR:HG21	1.96	0.48
1:x:367:PHE:CE2	1:x:369:ALA:HB3	2.49	0.48
1:z:380:LEU:HD13	1:2:434:ARG:HD2	1.94	0.48
1:5:367:PHE:CE2	1:5:369:ALA:HB3	2.49	0.48
1:5:450:THR:OG1	1:6:502:ASN:HA	2.14	0.48
1:5:502:ASN:HA	1:7:450:THR:OG1	2.14	0.48
1:A:550:ALA:HB1	1:A:554:THR:HG21	1.94	0.48
1:C:701:GLN:CA	1:L:703:THR:HG23	2.43	0.48
1:F:656:PRO:HD2	1:R:677:THR:HG21	1.95	0.48
1:G:367:PHE:CE2	1:G:369:ALA:HB3	2.49	0.48
1:K:450:THR:OG1	1:a:502:ASN:HA	2.14	0.48
1:N:450:THR:OG1	1:P:502:ASN:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:701:GLN:H	1:O:703:THR:HG22	1.69	0.48
1:R:367:PHE:CE2	1:R:369:ALA:HB3	2.49	0.48
1:T:427:ALA:O	1:T:734:THR:HA	2.13	0.48
1:V:450:THR:OG1	1:e:502:ASN:HA	2.14	0.48
1:V:656:PRO:HD2	1:W:677:THR:HG21	1.96	0.48
1:W:703:THR:HG23	1:X:701:GLN:CA	2.43	0.48
1:X:380:LEU:HD13	1:e:434:ARG:HD2	1.95	0.48
1:c:434:ARG:HD2	1:o:380:LEU:HD13	1.95	0.48
1:c:656:PRO:HD2	1:s:677:THR:HG21	1.95	0.48
1:e:677:THR:HG21	1:h:656:PRO:HD2	1.95	0.48
1:i:701:GLN:H	1:l:703:THR:HG22	1.70	0.48
1:m:450:THR:OG1	1:n:502:ASN:HA	2.14	0.48
1:o:677:THR:HG21	1:7:656:PRO:HD2	1.95	0.48
1:q:677:THR:HG21	1:y:656:PRO:HD2	1.95	0.48
1:t:502:ASN:HA	1:v:450:THR:OG1	2.14	0.48
1:3:502:ASN:HA	1:4:450:THR:OG1	2.14	0.48
1:5:622:LYS:HB2	1:5:644:PRO:HG3	1.95	0.48
1:8:427:ALA:O	1:8:734:THR:HA	2.13	0.48
1:H:502:ASN:HA	1:Y:450:THR:OG1	2.14	0.47
1:I:367:PHE:CE2	1:I:369:ALA:HB3	2.49	0.47
1:N:434:ARG:HD2	1:P:380:LEU:HD13	1.95	0.47
1:N:622:LYS:HB2	1:N:644:PRO:HG3	1.95	0.47
1:P:367:PHE:CE2	1:P:369:ALA:HB3	2.49	0.47
1:R:656:PRO:HD2	1:V:677:THR:HG21	1.95	0.47
1:S:622:LYS:HB2	1:S:644:PRO:HG3	1.95	0.47
1:Y:320:ILE:HD13	1:Y:342:ILE:HD11	1.95	0.47
1:Z:367:PHE:CE2	1:Z:369:ALA:HB3	2.49	0.47
1:Z:656:PRO:HD2	1:a:677:THR:HG21	1.95	0.47
1:c:622:LYS:HB2	1:c:644:PRO:HG3	1.95	0.47
1:d:427:ALA:O	1:d:734:THR:HA	2.13	0.47
1:d:439:LEU:HD21	1:l:278:SER:HB2	1.94	0.47
1:e:622:LYS:HB2	1:e:644:PRO:HG3	1.95	0.47
1:f:367:PHE:CE2	1:f:369:ALA:HB3	2.49	0.47
1:g:701:GLN:CA	1:z:703:THR:HG23	2.43	0.47
1:l:320:ILE:HD13	1:l:342:ILE:HD11	1.95	0.47
1:n:367:PHE:CE2	1:n:369:ALA:HB3	2.49	0.47
1:n:427:ALA:O	1:n:734:THR:HA	2.14	0.47
1:o:320:ILE:HD13	1:o:342:ILE:HD11	1.95	0.47
1:q:367:PHE:CE2	1:q:369:ALA:HB3	2.49	0.47
1:q:502:ASN:HA	1:s:450:THR:OG1	2.14	0.47
1:r:622:LYS:HB2	1:r:644:PRO:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:367:PHE:CE2	1:t:369:ALA:HB3	2.49	0.47
1:u:367:PHE:CE2	1:u:369:ALA:HB3	2.49	0.47
1:u:564:GLU:OE2	1:u:614:TYR:OH	2.20	0.47
1:y:550:ALA:HB1	1:y:554:THR:HG21	1.94	0.47
1:3:398:GLU:OE2	1:3:651:LYS:NZ	2.48	0.47
1:3:677:THR:HG21	1:8:656:PRO:HD2	1.95	0.47
1:7:622:LYS:HB2	1:7:644:PRO:HG3	1.95	0.47
1:C:278:SER:HB2	1:M:439:LEU:HD21	1.95	0.47
1:G:550:ALA:HB1	1:G:554:THR:HG21	1.94	0.47
1:G:677:THR:HG21	1:W:656:PRO:HD2	1.95	0.47
1:H:677:THR:HG21	1:I:656:PRO:HD2	1.95	0.47
1:M:656:PRO:HD2	1:c:677:THR:HG21	1.95	0.47
1:N:367:PHE:CE2	1:N:369:ALA:HB3	2.49	0.47
1:R:450:THR:OG1	1:S:502:ASN:HA	2.15	0.47
1:U:677:THR:HG21	1:e:656:PRO:HD2	1.95	0.47
1:Y:622:LYS:HB2	1:Y:644:PRO:HG3	1.95	0.47
1:a:398:GLU:OE2	1:a:651:LYS:NZ	2.48	0.47
1:b:367:PHE:CE2	1:b:369:ALA:HB3	2.49	0.47
1:b:677:THR:HG21	1:o:656:PRO:HD2	1.95	0.47
1:i:367:PHE:CE2	1:i:369:ALA:HB3	2.49	0.47
1:j:367:PHE:CE2	1:j:369:ALA:HB3	2.49	0.47
1:m:320:ILE:HD13	1:m:342:ILE:HD11	1.95	0.47
1:q:450:THR:OG1	1:r:502:ASN:HA	2.15	0.47
1:q:701:GLN:CA	1:x:703:THR:HG23	2.43	0.47
1:s:427:ALA:O	1:s:734:THR:HA	2.13	0.47
1:w:502:ASN:HA	1:y:450:THR:OG1	2.14	0.47
1:z:502:ASN:HA	1:2:450:THR:OG1	2.14	0.47
1:z:656:PRO:HD2	1:4:677:THR:HG21	1.96	0.47
1:3:367:PHE:CE2	1:3:369:ALA:HB3	2.49	0.47
1:6:431:SER:HA	1:6:569:PRO:HB3	1.95	0.47
1:B:278:SER:HB2	1:L:439:LEU:HD21	1.94	0.47
1:B:398:GLU:OE2	1:B:651:LYS:NZ	2.47	0.47
1:B:656:PRO:HD2	1:C:677:THR:HG21	1.95	0.47
1:C:367:PHE:CE2	1:C:369:ALA:HB3	2.49	0.47
1:C:502:ASN:HA	1:M:450:THR:OG1	2.14	0.47
1:D:622:LYS:HB2	1:D:644:PRO:HG3	1.95	0.47
1:E:502:ASN:HA	1:F:450:THR:OG1	2.14	0.47
1:F:380:LEU:HD13	1:Q:434:ARG:HD2	1.95	0.47
1:H:427:ALA:O	1:H:734:THR:HA	2.13	0.47
1:J:450:THR:OG1	1:L:502:ASN:HA	2.15	0.47
1:K:677:THR:HG21	1:L:656:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:278:SER:HB2	1:n:439:LEU:HD21	1.94	0.47
1:T:320:ILE:HD13	1:T:342:ILE:HD11	1.95	0.47
1:U:427:ALA:O	1:U:734:THR:HA	2.13	0.47
1:U:622:LYS:HB2	1:U:644:PRO:HG3	1.95	0.47
1:W:367:PHE:CE2	1:W:369:ALA:HB3	2.49	0.47
1:a:367:PHE:CE2	1:a:369:ALA:HB3	2.49	0.47
1:c:502:ASN:HA	1:p:450:THR:OG1	2.15	0.47
1:d:703:THR:HG22	1:n:701:GLN:H	1.69	0.47
1:h:427:ALA:O	1:h:734:THR:HA	2.14	0.47
1:i:434:ARG:HD2	1:j:380:LEU:HD13	1.95	0.47
1:i:622:LYS:HB2	1:i:644:PRO:HG3	1.95	0.47
1:m:427:ALA:O	1:m:734:THR:HA	2.14	0.47
1:p:367:PHE:CE2	1:p:369:ALA:HB3	2.49	0.47
1:t:550:ALA:HB1	1:t:554:THR:HG21	1.94	0.47
1:t:677:THR:HG21	1:6:656:PRO:HD2	1.95	0.47
1:u:622:LYS:HB2	1:u:644:PRO:HG3	1.95	0.47
1:u:703:THR:CG2	1:1:701:GLN:N	2.50	0.47
1:v:677:THR:HG21	1:w:656:PRO:HD2	1.95	0.47
1:w:450:THR:OG1	1:x:502:ASN:HA	2.14	0.47
1:x:450:THR:OG1	1:y:502:ASN:HA	2.15	0.47
1:z:367:PHE:CE2	1:z:369:ALA:HB3	2.49	0.47
1:1:367:PHE:CE2	1:1:369:ALA:HB3	2.49	0.47
1:1:398:GLU:OE2	1:1:651:LYS:NZ	2.47	0.47
1:8:367:PHE:CE2	1:8:369:ALA:HB3	2.49	0.47
1:B:367:PHE:CE2	1:B:369:ALA:HB3	2.49	0.47
1:C:431:SER:HA	1:C:569:PRO:HB3	1.94	0.47
1:C:450:THR:OG1	1:b:502:ASN:HA	2.15	0.47
1:G:703:THR:HG1	1:H:703:THR:HG1	1.62	0.47
1:I:504:ALA:O	1:I:508:ALA:HB2	2.15	0.47
1:I:622:LYS:HB2	1:I:644:PRO:HG3	1.95	0.47
1:L:367:PHE:CE2	1:L:369:ALA:HB3	2.49	0.47
1:M:367:PHE:CE2	1:M:369:ALA:HB3	2.49	0.47
1:N:677:THR:HG21	1:m:656:PRO:HD2	1.96	0.47
1:S:398:GLU:OE2	1:S:651:LYS:NZ	2.47	0.47
1:T:367:PHE:CE2	1:T:369:ALA:HB3	2.49	0.47
1:V:367:PHE:CE2	1:V:369:ALA:HB3	2.49	0.47
1:W:431:SER:HA	1:W:569:PRO:HB3	1.95	0.47
1:W:434:ARG:HD2	1:Y:380:LEU:HD13	1.95	0.47
1:Y:367:PHE:CE2	1:Y:369:ALA:HB3	2.49	0.47
1:f:450:THR:OG1	1:h:502:ASN:HA	2.14	0.47
1:g:502:ASN:HA	1:h:450:THR:OG1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:367:PHE:CE2	1:m:369:ALA:HB3	2.49	0.47
1:m:398:GLU:OE2	1:m:651:LYS:NZ	2.47	0.47
1:p:504:ALA:O	1:p:508:ALA:HB2	2.15	0.47
1:s:622:LYS:HB2	1:s:644:PRO:HG3	1.95	0.47
1:t:703:THR:HG1	1:5:703:THR:HG1	1.62	0.47
1:w:398:GLU:OE2	1:w:651:LYS:NZ	2.47	0.47
1:z:439:LEU:HD21	1:1:278:SER:HB2	1.94	0.47
1:z:450:THR:OG1	1:1:502:ASN:HA	2.14	0.47
1:5:427:ALA:O	1:5:734:THR:HA	2.13	0.47
1:6:434:ARG:HD2	1:7:380:LEU:HD13	1.95	0.47
1:7:367:PHE:CE2	1:7:369:ALA:HB3	2.49	0.47
1:B:502:ASN:HA	1:L:450:THR:OG1	2.14	0.47
1:E:367:PHE:CE2	1:E:369:ALA:HB3	2.49	0.47
1:E:398:GLU:OE2	1:E:651:LYS:NZ	2.47	0.47
1:H:656:PRO:HD2	1:Z:677:THR:HG21	1.95	0.47
1:L:398:GLU:OE2	1:L:651:LYS:NZ	2.47	0.47
1:M:398:GLU:OE2	1:M:651:LYS:NZ	2.48	0.47
1:M:427:ALA:O	1:M:734:THR:HA	2.14	0.47
1:M:504:ALA:O	1:M:508:ALA:HB2	2.15	0.47
1:Q:706:PHE:C	1:Q:706:PHE:CD2	2.93	0.47
1:T:398:GLU:OE2	1:T:651:LYS:NZ	2.47	0.47
1:T:450:THR:OG1	1:d:502:ASN:HA	2.14	0.47
1:V:504:ALA:O	1:V:508:ALA:HB2	2.15	0.47
1:X:431:SER:HA	1:X:569:PRO:HB3	1.95	0.47
1:X:656:PRO:HD2	1:f:677:THR:HG21	1.95	0.47
1:Z:502:ASN:HA	1:3:450:THR:OG1	2.14	0.47
1:b:504:ALA:O	1:b:508:ALA:HB2	2.15	0.47
1:d:701:GLN:H	1:n:703:THR:HG22	1.70	0.47
1:f:502:ASN:HA	1:g:450:THR:OG1	2.15	0.47
1:g:278:SER:HB2	1:h:439:LEU:HD21	1.95	0.47
1:g:367:PHE:CE2	1:g:369:ALA:HB3	2.49	0.47
1:g:656:PRO:HD2	1:k:677:THR:HG21	1.96	0.47
1:h:367:PHE:CE2	1:h:369:ALA:HB3	2.49	0.47
1:h:398:GLU:OE2	1:h:651:LYS:NZ	2.48	0.47
1:h:706:PHE:C	1:h:706:PHE:CD2	2.93	0.47
1:k:622:LYS:HB2	1:k:644:PRO:HG3	1.95	0.47
1:n:504:ALA:O	1:n:508:ALA:HB2	2.15	0.47
1:o:431:SER:HA	1:o:569:PRO:HB3	1.95	0.47
1:r:398:GLU:OE2	1:r:651:LYS:NZ	2.47	0.47
1:u:504:ALA:O	1:u:508:ALA:HB2	2.15	0.47
1:u:703:THR:HG1	1:1:703:THR:HG1	1.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:367:PHE:CE2	1:v:369:ALA:HB3	2.49	0.47
1:w:367:PHE:CE2	1:w:369:ALA:HB3	2.49	0.47
1:x:706:PHE:C	1:x:706:PHE:CD2	2.93	0.47
1:6:367:PHE:CE2	1:6:369:ALA:HB3	2.49	0.47
1:C:656:PRO:HD2	1:D:677:THR:HG21	1.96	0.47
1:E:427:ALA:O	1:E:734:THR:HA	2.13	0.47
1:G:450:THR:OG1	1:I:502:ASN:HA	2.15	0.47
1:M:706:PHE:C	1:M:706:PHE:CD2	2.93	0.47
1:O:502:ASN:HA	1:n:450:THR:OG1	2.14	0.47
1:Q:703:THR:HG23	1:R:701:GLN:CA	2.44	0.47
1:R:504:ALA:O	1:R:508:ALA:HB2	2.15	0.47
1:T:504:ALA:O	1:T:508:ALA:HB2	2.15	0.47
1:W:504:ALA:O	1:W:508:ALA:HB2	2.15	0.47
1:Y:504:ALA:O	1:Y:508:ALA:HB2	2.15	0.47
1:a:450:THR:OG1	1:8:502:ASN:HA	2.14	0.47
1:a:622:LYS:HB2	1:a:644:PRO:HG3	1.95	0.47
1:d:450:THR:OG1	1:l:502:ASN:HA	2.14	0.47
1:d:504:ALA:O	1:d:508:ALA:HB2	2.15	0.47
1:f:504:ALA:O	1:f:508:ALA:HB2	2.15	0.47
1:g:427:ALA:O	1:g:734:THR:HA	2.14	0.47
1:g:431:SER:HA	1:g:569:PRO:HB3	1.95	0.47
1:i:530:LYS:HG2	1:i:531:ASP:N	2.22	0.47
1:j:504:ALA:O	1:j:508:ALA:HB2	2.15	0.47
1:l:706:PHE:C	1:l:706:PHE:CD2	2.93	0.47
1:z:398:GLU:OE2	1:z:651:LYS:NZ	2.48	0.47
1:1:504:ALA:O	1:1:508:ALA:HB2	2.15	0.47
1:3:622:LYS:HB2	1:3:644:PRO:HG3	1.95	0.47
1:4:622:LYS:HB2	1:4:644:PRO:HG3	1.95	0.47
1:6:504:ALA:O	1:6:508:ALA:HB2	2.15	0.47
1:A:367:PHE:CE2	1:A:369:ALA:HB3	2.49	0.47
1:B:504:ALA:O	1:B:508:ALA:HB2	2.15	0.47
1:B:530:LYS:HG2	1:B:531:ASP:N	2.22	0.47
1:B:701:GLN:N	1:I:703:THR:CG2	2.51	0.47
1:C:427:ALA:O	1:C:734:THR:HA	2.14	0.47
1:C:703:THR:HG23	1:L:701:GLN:CA	2.43	0.47
1:D:256:HIS:HD2	1:D:654:PRO:HG3	1.80	0.47
1:D:502:ASN:HA	1:P:450:THR:OG1	2.14	0.47
1:D:530:LYS:HG2	1:D:531:ASP:N	2.22	0.47
1:E:450:THR:OG1	1:Q:502:ASN:HA	2.15	0.47
1:K:622:LYS:HB2	1:K:644:PRO:HG3	1.95	0.47
1:L:431:SER:HA	1:L:569:PRO:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:504:ALA:O	1:L:508:ALA:HB2	2.15	0.47
1:M:502:ASN:HA	1:b:450:THR:OG1	2.14	0.47
1:N:530:LYS:HG2	1:N:531:ASP:N	2.22	0.47
1:O:398:GLU:OE2	1:O:651:LYS:NZ	2.48	0.47
1:O:450:THR:OG1	1:m:502:ASN:HA	2.14	0.47
1:O:706:PHE:C	1:O:706:PHE:CD2	2.93	0.47
1:P:504:ALA:O	1:P:508:ALA:HB2	2.15	0.47
1:S:320:ILE:HD13	1:S:342:ILE:HD11	1.95	0.47
1:S:677:THR:HG21	1:d:656:PRO:HD2	1.95	0.47
1:T:706:PHE:C	1:T:706:PHE:CD2	2.93	0.47
1:V:502:ASN:HA	1:X:450:THR:OG1	2.14	0.47
1:X:502:ASN:HA	1:e:450:THR:OG1	2.14	0.47
1:Y:398:GLU:OE2	1:Y:651:LYS:NZ	2.48	0.47
1:c:427:ALA:O	1:c:734:THR:HA	2.13	0.47
1:c:504:ALA:O	1:c:508:ALA:HB2	2.15	0.47
1:e:504:ALA:O	1:e:508:ALA:HB2	2.15	0.47
1:h:504:ALA:O	1:h:508:ALA:HB2	2.15	0.47
1:h:703:THR:HG23	1:k:701:GLN:CA	2.43	0.47
1:j:398:GLU:OE2	1:j:651:LYS:NZ	2.48	0.47
1:j:450:THR:OG1	1:k:502:ASN:HA	2.14	0.47
1:m:504:ALA:O	1:m:508:ALA:HB2	2.15	0.47
1:m:706:PHE:C	1:m:706:PHE:CD2	2.93	0.47
1:o:450:THR:OG1	1:p:502:ASN:HA	2.14	0.47
1:p:677:THR:HG21	1:q:656:PRO:HD2	1.95	0.47
1:q:427:ALA:O	1:q:734:THR:HA	2.14	0.47
1:q:504:ALA:O	1:q:508:ALA:HB2	2.15	0.47
1:r:320:ILE:HD13	1:r:342:ILE:HD11	1.95	0.47
1:t:450:THR:OG1	1:u:502:ASN:HA	2.15	0.47
1:u:656:PRO:HD2	1:5:677:THR:HG21	1.95	0.47
1:w:427:ALA:O	1:w:734:THR:HA	2.14	0.47
1:z:504:ALA:O	1:z:508:ALA:HB2	2.15	0.47
1:5:656:PRO:HD2	1:8:677:THR:HG21	1.95	0.47
1:7:504:ALA:O	1:7:508:ALA:HB2	2.15	0.47
1:7:703:THR:HG23	1:8:701:GLN:CA	2.43	0.47
1:A:432:LEU:HD21	1:A:607:VAL:HG21	1.97	0.47
1:A:668:PHE:CZ	1:B:373:MET:HB2	2.50	0.47
1:A:703:THR:HG23	1:F:701:GLN:CA	2.45	0.47
1:G:622:LYS:HB2	1:G:644:PRO:HG3	1.95	0.47
1:H:504:ALA:O	1:H:508:ALA:HB2	2.15	0.47
1:I:677:THR:HG21	1:J:656:PRO:HD2	1.96	0.47
1:K:432:LEU:HD21	1:K:607:VAL:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:502:ASN:HA	1:8:450:THR:OG1	2.14	0.47
1:N:504:ALA:O	1:N:508:ALA:HB2	2.15	0.47
1:P:398:GLU:OE2	1:P:651:LYS:NZ	2.48	0.47
1:P:706:PHE:C	1:P:706:PHE:CD2	2.93	0.47
1:R:427:ALA:O	1:R:734:THR:HA	2.14	0.47
1:Y:703:THR:HG23	1:Z:701:GLN:CA	2.43	0.47
1:Z:450:THR:OG1	1:4:502:ASN:HA	2.14	0.47
1:e:701:GLN:N	1:f:703:THR:CG2	2.50	0.47
1:i:504:ALA:O	1:i:508:ALA:HB2	2.15	0.47
1:k:256:HIS:HD2	1:k:654:PRO:HG3	1.80	0.47
1:l:398:GLU:OE2	1:l:651:LYS:NZ	2.48	0.47
1:n:530:LYS:HG2	1:n:531:ASP:N	2.22	0.47
1:n:656:PRO:HD2	1:r:677:THR:HG21	1.95	0.47
1:p:432:LEU:HD21	1:p:607:VAL:HG21	1.97	0.47
1:q:701:GLN:H	1:x:703:THR:HG22	1.70	0.47
1:v:432:LEU:HD21	1:v:607:VAL:HG21	1.97	0.47
1:1:530:LYS:HG2	1:1:531:ASP:N	2.22	0.47
1:4:432:LEU:HD21	1:4:607:VAL:HG21	1.97	0.47
1:5:504:ALA:O	1:5:508:ALA:HB2	2.15	0.47
1:A:656:PRO:HD2	1:B:677:THR:HG21	1.97	0.47
1:J:703:THR:HG23	1:K:701:GLN:CA	2.43	0.47
1:M:432:LEU:HD21	1:M:607:VAL:HG21	1.97	0.47
1:S:450:THR:OG1	1:U:502:ASN:HA	2.15	0.47
1:V:432:LEU:HD21	1:V:607:VAL:HG21	1.97	0.47
1:W:450:THR:OG1	1:Y:502:ASN:HA	2.14	0.47
1:Y:706:PHE:C	1:Y:706:PHE:CD2	2.93	0.47
1:f:398:GLU:OE2	1:f:651:LYS:NZ	2.48	0.47
1:g:504:ALA:O	1:g:508:ALA:HB2	2.15	0.47
1:j:706:PHE:C	1:j:706:PHE:CD2	2.93	0.47
1:z:431:SER:HA	1:z:569:PRO:HB3	1.95	0.47
1:1:706:PHE:C	1:1:706:PHE:CD2	2.93	0.47
1:6:450:THR:OG1	1:7:502:ASN:HA	2.14	0.47
1:A:504:ALA:O	1:A:508:ALA:HB2	2.15	0.47
1:B:706:PHE:CD2	1:B:706:PHE:C	2.93	0.47
1:E:622:LYS:HB2	1:E:644:PRO:HG3	1.95	0.47
1:P:677:THR:HG21	1:Q:656:PRO:HD2	1.95	0.47
1:S:504:ALA:O	1:S:508:ALA:HB2	2.15	0.47
1:U:432:LEU:HD21	1:U:607:VAL:HG21	1.97	0.47
1:b:398:GLU:OE2	1:b:651:LYS:NZ	2.48	0.47
1:c:450:THR:OG1	1:o:502:ASN:HA	2.14	0.47
1:d:530:LYS:HG2	1:d:531:ASP:N	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:706:PHE:C	1:d:706:PHE:CD2	2.93	0.47
1:e:367:PHE:CE2	1:e:369:ALA:HB3	2.49	0.47
1:e:427:ALA:O	1:e:734:THR:HA	2.14	0.47
1:h:432:LEU:HD21	1:h:607:VAL:HG21	1.97	0.47
1:h:703:THR:HG22	1:k:701:GLN:H	1.70	0.47
1:k:530:LYS:HG2	1:k:531:ASP:N	2.22	0.47
1:o:504:ALA:O	1:o:508:ALA:HB2	2.15	0.47
1:r:450:THR:OG1	1:s:502:ASN:HA	2.14	0.47
1:r:504:ALA:O	1:r:508:ALA:HB2	2.15	0.47
1:t:224:ASN:OD1	1:6:409:ASN:ND2	2.39	0.47
1:t:622:LYS:HB2	1:t:644:PRO:HG3	1.95	0.47
1:u:677:THR:HG21	1:2:656:PRO:HD2	1.96	0.47
1:7:703:THR:HG1	1:8:703:THR:HG1	1.61	0.47
1:7:706:PHE:C	1:7:706:PHE:CD2	2.93	0.47
1:8:504:ALA:O	1:8:508:ALA:HB2	2.15	0.47
1:A:706:PHE:C	1:A:706:PHE:CD2	2.93	0.46
1:C:504:ALA:O	1:C:508:ALA:HB2	2.15	0.46
1:O:432:LEU:HD21	1:O:607:VAL:HG21	1.97	0.46
1:V:706:PHE:C	1:V:706:PHE:CD2	2.93	0.46
1:X:504:ALA:O	1:X:508:ALA:HB2	2.15	0.46
1:Y:703:THR:HG1	1:Z:703:THR:HG1	1.61	0.46
1:Z:504:ALA:O	1:Z:508:ALA:HB2	2.15	0.46
1:c:367:PHE:CE2	1:c:369:ALA:HB3	2.49	0.46
1:g:703:THR:HG23	1:z:701:GLN:CA	2.44	0.46
1:i:502:ASN:HA	1:k:450:THR:OG1	2.14	0.46
1:l:432:LEU:HD21	1:l:607:VAL:HG21	1.97	0.46
1:n:706:PHE:C	1:n:706:PHE:CD2	2.93	0.46
1:v:409:ASN:ND2	1:1:224:ASN:OD1	2.39	0.46
1:v:504:ALA:O	1:v:508:ALA:HB2	2.15	0.46
1:y:504:ALA:O	1:y:508:ALA:HB2	2.15	0.46
1:6:706:PHE:C	1:6:706:PHE:CD2	2.93	0.46
1:C:256:HIS:HD2	1:C:654:PRO:HG3	1.80	0.46
1:D:701:GLN:CA	1:M:703:THR:HG23	2.43	0.46
1:E:703:THR:CG2	1:P:701:GLN:N	2.49	0.46
1:F:504:ALA:O	1:F:508:ALA:HB2	2.15	0.46
1:J:706:PHE:C	1:J:706:PHE:CD2	2.93	0.46
1:V:398:GLU:OE2	1:V:651:LYS:NZ	2.47	0.46
1:W:706:PHE:C	1:W:706:PHE:CD2	2.93	0.46
1:Z:432:LEU:HD21	1:Z:607:VAL:HG21	1.97	0.46
1:j:677:THR:HG21	1:x:656:PRO:HD2	1.96	0.46
1:k:706:PHE:CD2	1:k:706:PHE:C	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:256:HIS:HD2	1:s:654:PRO:HG3	1.80	0.46
1:v:706:PHE:C	1:v:706:PHE:CD2	2.93	0.46
1:2:703:THR:HG23	1:4:701:GLN:CA	2.44	0.46
1:8:432:LEU:HD21	1:8:607:VAL:HG21	1.97	0.46
1:B:432:LEU:HD21	1:B:607:VAL:HG21	1.97	0.46
1:B:450:THR:OG1	1:J:502:ASN:HA	2.15	0.46
1:D:706:PHE:C	1:D:706:PHE:CD2	2.93	0.46
1:E:432:LEU:HD21	1:E:607:VAL:HG21	1.97	0.46
1:E:504:ALA:O	1:E:508:ALA:HB2	2.15	0.46
1:F:432:LEU:HD21	1:F:607:VAL:HG21	1.97	0.46
1:G:398:GLU:OE2	1:G:651:LYS:NZ	2.48	0.46
1:N:706:PHE:C	1:N:706:PHE:CD2	2.93	0.46
1:R:432:LEU:HD21	1:R:607:VAL:HG21	1.97	0.46
1:S:530:LYS:HG2	1:S:531:ASP:N	2.22	0.46
1:T:432:LEU:HD21	1:T:607:VAL:HG21	1.97	0.46
1:X:432:LEU:HD21	1:X:607:VAL:HG21	1.97	0.46
1:a:432:LEU:HD21	1:a:607:VAL:HG21	1.97	0.46
1:b:701:GLN:N	1:c:703:THR:CG2	2.50	0.46
1:g:432:LEU:HD21	1:g:607:VAL:HG21	1.97	0.46
1:i:706:PHE:C	1:i:706:PHE:CD2	2.93	0.46
1:j:701:GLN:N	1:w:703:THR:CG2	2.50	0.46
1:m:432:LEU:HD21	1:m:607:VAL:HG21	1.97	0.46
1:p:398:GLU:OE2	1:p:651:LYS:NZ	2.47	0.46
1:p:706:PHE:C	1:p:706:PHE:CD2	2.93	0.46
1:q:432:LEU:HD21	1:q:607:VAL:HG21	1.97	0.46
1:r:530:LYS:HG2	1:r:531:ASP:N	2.22	0.46
1:s:432:LEU:HD21	1:s:607:VAL:HG21	1.97	0.46
1:u:703:THR:HG23	1:1:701:GLN:CA	2.44	0.46
1:w:432:LEU:HD21	1:w:607:VAL:HG21	1.97	0.46
1:w:622:LYS:HB2	1:w:644:PRO:HG3	1.95	0.46
1:y:432:LEU:HD21	1:y:607:VAL:HG21	1.97	0.46
1:1:432:LEU:HD21	1:1:607:VAL:HG21	1.97	0.46
1:2:706:PHE:C	1:2:706:PHE:CD2	2.93	0.46
1:3:504:ALA:O	1:3:508:ALA:HB2	2.15	0.46
1:G:706:PHE:C	1:G:706:PHE:CD2	2.93	0.46
1:H:432:LEU:HD21	1:H:607:VAL:HG21	1.97	0.46
1:H:706:PHE:CD2	1:H:706:PHE:C	2.93	0.46
1:Q:703:THR:HG22	1:R:701:GLN:H	1.70	0.46
1:T:656:PRO:HD2	1:i:677:THR:HG21	1.96	0.46
1:U:256:HIS:HD2	1:U:654:PRO:HG3	1.80	0.46
1:b:706:PHE:C	1:b:706:PHE:CD2	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:564:GLU:OE2	1:f:614:TYR:OH	2.20	0.46
1:f:706:PHE:C	1:f:706:PHE:CD2	2.93	0.46
1:n:256:HIS:HD2	1:n:654:PRO:HG3	1.80	0.46
1:o:398:GLU:OE2	1:o:651:LYS:NZ	2.47	0.46
1:p:299:GLN:NE2	1:p:702:TYR:O	2.49	0.46
1:q:706:PHE:C	1:q:706:PHE:CD2	2.93	0.46
1:t:398:GLU:OE2	1:t:651:LYS:NZ	2.47	0.46
1:t:432:LEU:HD21	1:t:607:VAL:HG21	1.97	0.46
1:w:299:GLN:NE2	1:w:702:TYR:O	2.49	0.46
1:z:564:GLU:OE2	1:z:614:TYR:OH	2.20	0.46
1:1:450:THR:OG1	1:2:502:ASN:HA	2.15	0.46
1:3:432:LEU:HD21	1:3:607:VAL:HG21	1.97	0.46
1:C:432:LEU:HD21	1:C:607:VAL:HG21	1.97	0.46
1:C:703:THR:HG22	1:L:701:GLN:H	1.70	0.46
1:E:299:GLN:NE2	1:E:702:TYR:O	2.49	0.46
1:G:432:LEU:HD21	1:G:607:VAL:HG21	1.97	0.46
1:I:432:LEU:HD21	1:I:607:VAL:HG21	1.97	0.46
1:M:299:GLN:NE2	1:M:702:TYR:O	2.49	0.46
1:Q:432:LEU:HD21	1:Q:607:VAL:HG21	1.97	0.46
1:R:398:GLU:OE2	1:R:651:LYS:NZ	2.47	0.46
1:R:706:PHE:C	1:R:706:PHE:CD2	2.93	0.46
1:T:256:HIS:HD2	1:T:654:PRO:HG3	1.80	0.46
1:U:504:ALA:O	1:U:508:ALA:HB2	2.15	0.46
1:U:706:PHE:C	1:U:706:PHE:CD2	2.93	0.46
1:V:299:GLN:NE2	1:V:702:TYR:O	2.49	0.46
1:X:398:GLU:OE2	1:X:651:LYS:NZ	2.48	0.46
1:a:504:ALA:O	1:a:508:ALA:HB2	2.15	0.46
1:d:256:HIS:HD2	1:d:654:PRO:HG3	1.80	0.46
1:g:256:HIS:HD2	1:g:654:PRO:HG3	1.80	0.46
1:g:706:PHE:C	1:g:706:PHE:CD2	2.93	0.46
1:h:299:GLN:NE2	1:h:702:TYR:O	2.49	0.46
1:k:504:ALA:O	1:k:508:ALA:HB2	2.15	0.46
1:o:432:LEU:HD21	1:o:607:VAL:HG21	1.97	0.46
1:r:706:PHE:C	1:r:706:PHE:CD2	2.93	0.46
1:t:706:PHE:C	1:t:706:PHE:CD2	2.93	0.46
1:u:432:LEU:HD21	1:u:607:VAL:HG21	1.97	0.46
1:w:504:ALA:O	1:w:508:ALA:HB2	2.15	0.46
1:w:706:PHE:C	1:w:706:PHE:CD2	2.93	0.46
1:z:432:LEU:HD21	1:z:607:VAL:HG21	1.97	0.46
1:2:398:GLU:OE2	1:2:651:LYS:NZ	2.47	0.46
1:5:432:LEU:HD21	1:5:607:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:706:PHE:C	1:5:706:PHE:CD2	2.93	0.46
1:D:701:GLN:H	1:M:703:THR:HG22	1.70	0.46
1:E:706:PHE:C	1:E:706:PHE:CD2	2.93	0.46
1:J:398:GLU:OE2	1:J:651:LYS:NZ	2.47	0.46
1:K:299:GLN:NE2	1:K:702:TYR:O	2.49	0.46
1:L:432:LEU:HD21	1:L:607:VAL:HG21	1.97	0.46
1:L:706:PHE:C	1:L:706:PHE:CD2	2.93	0.46
1:P:256:HIS:HD2	1:P:654:PRO:HG3	1.80	0.46
1:Q:299:GLN:NE2	1:Q:702:TYR:O	2.49	0.46
1:S:706:PHE:C	1:S:706:PHE:CD2	2.93	0.46
1:b:703:THR:CG2	1:c:701:GLN:N	2.50	0.46
1:f:432:LEU:HD21	1:f:607:VAL:HG21	1.97	0.46
1:g:703:THR:HG22	1:z:701:GLN:H	1.71	0.46
1:m:256:HIS:HD2	1:m:654:PRO:HG3	1.80	0.46
1:o:706:PHE:C	1:o:706:PHE:CD2	2.93	0.46
1:s:504:ALA:O	1:s:508:ALA:HB2	2.15	0.46
1:s:706:PHE:C	1:s:706:PHE:CD2	2.93	0.46
1:x:299:GLN:NE2	1:x:702:TYR:O	2.49	0.46
1:x:432:LEU:HD21	1:x:607:VAL:HG21	1.97	0.46
1:4:504:ALA:O	1:4:508:ALA:HB2	2.15	0.46
1:B:701:GLN:CA	1:I:703:THR:HG23	2.44	0.46
1:D:450:THR:OG1	1:N:502:ASN:HA	2.15	0.46
1:H:530:LYS:HG2	1:H:531:ASP:N	2.22	0.46
1:N:224:ASN:OD1	1:m:409:ASN:ND2	2.39	0.46
1:U:299:GLN:NE2	1:U:702:TYR:O	2.49	0.46
1:X:706:PHE:C	1:X:706:PHE:CD2	2.93	0.46
1:a:706:PHE:C	1:a:706:PHE:CD2	2.93	0.46
1:d:299:GLN:NE2	1:d:702:TYR:O	2.49	0.46
1:j:256:HIS:HD2	1:j:654:PRO:HG3	1.80	0.46
1:q:398:GLU:OE2	1:q:651:LYS:NZ	2.48	0.46
1:s:299:GLN:NE2	1:s:702:TYR:O	2.49	0.46
1:u:398:GLU:OE2	1:u:651:LYS:NZ	2.47	0.46
1:v:299:GLN:NE2	1:v:702:TYR:O	2.49	0.46
1:z:706:PHE:C	1:z:706:PHE:CD2	2.93	0.46
1:4:299:GLN:NE2	1:4:702:TYR:O	2.49	0.46
1:5:256:HIS:HD2	1:5:654:PRO:HG3	1.80	0.46
1:5:299:GLN:NE2	1:5:702:TYR:O	2.49	0.46
1:A:299:GLN:NE2	1:A:702:TYR:O	2.49	0.46
1:C:706:PHE:C	1:C:706:PHE:CD2	2.93	0.46
1:D:504:ALA:O	1:D:508:ALA:HB2	2.15	0.46
1:F:299:GLN:NE2	1:F:702:TYR:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:256:HIS:HD2	1:H:654:PRO:HG3	1.80	0.46
1:H:299:GLN:NE2	1:H:702:TYR:O	2.49	0.46
1:I:398:GLU:OE2	1:I:651:LYS:NZ	2.48	0.46
1:I:706:PHE:CD2	1:I:706:PHE:C	2.93	0.46
1:J:677:THR:HG21	1:a:656:PRO:HD2	1.96	0.46
1:K:504:ALA:O	1:K:508:ALA:HB2	2.15	0.46
1:O:530:LYS:HG2	1:O:531:ASP:N	2.22	0.46
1:T:299:GLN:NE2	1:T:702:TYR:O	2.49	0.46
1:W:432:LEU:HD21	1:W:607:VAL:HG21	1.97	0.46
1:b:432:LEU:HD21	1:b:607:VAL:HG21	1.97	0.46
1:c:398:GLU:OE2	1:c:651:LYS:NZ	2.48	0.46
1:e:706:PHE:C	1:e:706:PHE:CD2	2.93	0.46
1:n:299:GLN:NE2	1:n:702:TYR:O	2.49	0.46
1:q:299:GLN:NE2	1:q:702:TYR:O	2.49	0.46
1:t:701:GLN:CA	1:5:703:THR:HG23	2.43	0.46
1:v:256:HIS:HD2	1:v:654:PRO:HG3	1.80	0.46
1:x:256:HIS:HD2	1:x:654:PRO:HG3	1.80	0.46
1:y:299:GLN:NE2	1:y:702:TYR:O	2.49	0.46
1:2:677:THR:HG21	1:3:656:PRO:HD2	1.96	0.46
1:3:706:PHE:C	1:3:706:PHE:CD2	2.93	0.46
1:A:256:HIS:HD2	1:A:654:PRO:HG3	1.80	0.46
1:G:504:ALA:O	1:G:508:ALA:HB2	2.15	0.46
1:J:432:LEU:HD21	1:J:607:VAL:HG21	1.97	0.46
1:Q:256:HIS:HD2	1:Q:654:PRO:HG3	1.80	0.46
1:Q:504:ALA:O	1:Q:508:ALA:HB2	2.15	0.46
1:R:299:GLN:NE2	1:R:702:TYR:O	2.49	0.46
1:U:701:GLN:N	1:V:703:THR:CG2	2.50	0.46
1:W:398:GLU:OE2	1:W:651:LYS:NZ	2.48	0.46
1:X:530:LYS:HG2	1:X:531:ASP:N	2.22	0.46
1:b:299:GLN:NE2	1:b:702:TYR:O	2.49	0.46
1:e:398:GLU:OE2	1:e:651:LYS:NZ	2.48	0.46
1:e:703:THR:CG2	1:f:701:GLN:N	2.50	0.46
1:f:299:GLN:NE2	1:f:702:TYR:O	2.49	0.46
1:m:299:GLN:NE2	1:m:702:TYR:O	2.49	0.46
1:s:398:GLU:OE2	1:s:651:LYS:NZ	2.47	0.46
1:t:504:ALA:O	1:t:508:ALA:HB2	2.15	0.46
1:u:706:PHE:C	1:u:706:PHE:CD2	2.93	0.46
1:2:432:LEU:HD21	1:2:607:VAL:HG21	1.97	0.46
1:4:706:PHE:C	1:4:706:PHE:CD2	2.93	0.46
1:6:564:GLU:OE2	1:6:614:TYR:OH	2.20	0.46
1:7:432:LEU:HD21	1:7:607:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:706:PHE:C	1:F:706:PHE:CD2	2.93	0.46
1:J:504:ALA:O	1:J:508:ALA:HB2	2.15	0.46
1:K:530:LYS:HG2	1:K:531:ASP:N	2.22	0.46
1:K:706:PHE:C	1:K:706:PHE:CD2	2.93	0.46
1:S:299:GLN:NE2	1:S:702:TYR:O	2.49	0.46
1:c:432:LEU:HD21	1:c:607:VAL:HG21	1.97	0.46
1:d:398:GLU:OE2	1:d:651:LYS:NZ	2.48	0.46
1:i:299:GLN:NE2	1:i:702:TYR:O	2.49	0.46
1:n:432:LEU:HD21	1:n:607:VAL:HG21	1.97	0.46
1:r:432:LEU:HD21	1:r:607:VAL:HG21	1.97	0.46
1:6:398:GLU:OE2	1:6:651:LYS:NZ	2.48	0.46
1:D:343:GLN:HG2	1:D:404:MET:HG2	1.99	0.45
1:G:701:GLN:CA	1:H:703:THR:HG23	2.43	0.45
1:N:299:GLN:NE2	1:N:702:TYR:O	2.49	0.45
1:S:432:LEU:HD21	1:S:607:VAL:HG21	1.97	0.45
1:U:398:GLU:OE2	1:U:651:LYS:NZ	2.48	0.45
1:Y:432:LEU:HD21	1:Y:607:VAL:HG21	1.97	0.45
1:Z:409:ASN:ND2	1:a:224:ASN:OD1	2.39	0.45
1:Z:706:PHE:C	1:Z:706:PHE:CD2	2.93	0.45
1:c:706:PHE:CD2	1:c:706:PHE:C	2.93	0.45
1:l:504:ALA:O	1:l:508:ALA:HB2	2.15	0.45
1:l:530:LYS:HG2	1:l:531:ASP:N	2.22	0.45
1:n:398:GLU:OE2	1:n:651:LYS:NZ	2.48	0.45
1:r:299:GLN:NE2	1:r:702:TYR:O	2.49	0.45
1:x:504:ALA:O	1:x:508:ALA:HB2	2.15	0.45
1:y:706:PHE:C	1:y:706:PHE:CD2	2.93	0.45
1:1:256:HIS:HD2	1:1:654:PRO:HG3	1.80	0.45
1:2:504:ALA:O	1:2:508:ALA:HB2	2.15	0.45
1:4:256:HIS:HD2	1:4:654:PRO:HG3	1.80	0.45
1:5:530:LYS:HG2	1:5:531:ASP:N	2.22	0.45
1:A:224:ASN:OD1	1:E:409:ASN:ND2	2.38	0.45
1:D:398:GLU:OE2	1:D:651:LYS:NZ	2.48	0.45
1:K:256:HIS:HD2	1:K:654:PRO:HG3	1.80	0.45
1:O:504:ALA:O	1:O:508:ALA:HB2	2.15	0.45
1:T:409:ASN:ND2	1:i:224:ASN:OD1	2.40	0.45
1:V:343:GLN:HG2	1:V:404:MET:HG2	1.99	0.45
1:a:343:GLN:HG2	1:a:404:MET:HG2	1.98	0.45
1:c:299:GLN:NE2	1:c:702:TYR:O	2.49	0.45
1:d:432:LEU:HD21	1:d:607:VAL:HG21	1.97	0.45
1:e:299:GLN:NE2	1:e:702:TYR:O	2.49	0.45
1:g:564:GLU:OE2	1:g:614:TYR:OH	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:677:THR:HG21	1:1:656:PRO:HD2	1.97	0.45
1:h:701:GLN:CA	1:k:703:THR:HG23	2.43	0.45
1:k:343:GLN:HG2	1:k:404:MET:HG2	1.99	0.45
1:p:343:GLN:HG2	1:p:404:MET:HG2	1.98	0.45
1:3:343:GLN:HG2	1:3:404:MET:HG2	1.98	0.45
1:6:432:LEU:HD21	1:6:607:VAL:HG21	1.97	0.45
1:8:256:HIS:HD2	1:8:654:PRO:HG3	1.80	0.45
1:A:398:GLU:OE2	1:A:651:LYS:NZ	2.48	0.45
1:B:256:HIS:HD2	1:B:654:PRO:HG3	1.80	0.45
1:C:564:GLU:OE2	1:C:614:TYR:OH	2.20	0.45
1:P:343:GLN:HG2	1:P:404:MET:HG2	1.99	0.45
1:S:703:THR:HG23	1:T:701:GLN:CA	2.43	0.45
1:a:487:ARG:NH2	1:a:598:ASN:OD1	2.49	0.45
1:c:343:GLN:HG2	1:c:404:MET:HG2	1.99	0.45
1:e:343:GLN:HG2	1:e:404:MET:HG2	1.99	0.45
1:e:432:LEU:HD21	1:e:607:VAL:HG21	1.97	0.45
1:i:256:HIS:HD2	1:i:654:PRO:HG3	1.80	0.45
1:j:343:GLN:HG2	1:j:404:MET:HG2	1.99	0.45
1:v:398:GLU:OE2	1:v:651:LYS:NZ	2.47	0.45
1:8:706:PHE:CD2	1:8:706:PHE:C	2.93	0.45
1:D:432:LEU:HD21	1:D:607:VAL:HG21	1.97	0.45
1:D:703:THR:HG23	1:M:701:GLN:CA	2.43	0.45
1:I:299:GLN:NE2	1:I:702:TYR:O	2.49	0.45
1:N:432:LEU:HD21	1:N:607:VAL:HG21	1.97	0.45
1:P:299:GLN:NE2	1:P:702:TYR:O	2.49	0.45
1:S:343:GLN:HG2	1:S:404:MET:HG2	1.98	0.45
1:Y:299:GLN:NE2	1:Y:702:TYR:O	2.49	0.45
1:Z:256:HIS:HD2	1:Z:654:PRO:HG3	1.80	0.45
1:a:299:GLN:NE2	1:a:702:TYR:O	2.49	0.45
1:g:299:GLN:NE2	1:g:702:TYR:O	2.49	0.45
1:i:432:LEU:HD21	1:i:607:VAL:HG21	1.97	0.45
1:k:398:GLU:OE2	1:k:651:LYS:NZ	2.48	0.45
1:m:701:GLN:CA	1:r:703:THR:HG23	2.43	0.45
1:o:530:LYS:HG2	1:o:531:ASP:N	2.22	0.45
1:r:343:GLN:HG2	1:r:404:MET:HG2	1.99	0.45
1:3:224:ASN:OD1	1:8:409:ASN:ND2	2.39	0.45
1:4:530:LYS:HG2	1:4:531:ASP:N	2.22	0.45
1:C:299:GLN:NE2	1:C:702:TYR:O	2.49	0.45
1:C:343:GLN:HG2	1:C:404:MET:HG2	1.98	0.45
1:G:343:GLN:HG2	1:G:404:MET:HG2	1.99	0.45
1:N:256:HIS:HD2	1:N:654:PRO:HG3	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:224:ASN:OD1	1:S:409:ASN:ND2	2.39	0.45
1:U:487:ARG:NH2	1:U:598:ASN:OD1	2.49	0.45
1:W:564:GLU:OE2	1:W:614:TYR:OH	2.21	0.45
1:X:487:ARG:NH2	1:X:598:ASN:OD1	2.49	0.45
1:Z:299:GLN:NE2	1:Z:702:TYR:O	2.49	0.45
1:g:343:GLN:HG2	1:g:404:MET:HG2	1.98	0.45
1:j:299:GLN:NE2	1:j:702:TYR:O	2.49	0.45
1:m:343:GLN:HG2	1:m:404:MET:HG2	1.99	0.45
1:s:343:GLN:HG2	1:s:404:MET:HG2	1.98	0.45
1:u:299:GLN:NE2	1:u:702:TYR:O	2.49	0.45
1:z:256:HIS:HD2	1:z:654:PRO:HG3	1.80	0.45
1:3:299:GLN:NE2	1:3:702:TYR:O	2.49	0.45
1:7:299:GLN:NE2	1:7:702:TYR:O	2.49	0.45
1:A:288:ARG:CZ	1:A:290:HIS:HE1	2.30	0.45
1:A:502:ASN:HA	1:I:450:THR:OG1	2.17	0.45
1:K:487:ARG:NH2	1:K:598:ASN:OD1	2.49	0.45
1:L:256:HIS:HD2	1:L:654:PRO:HG3	1.80	0.45
1:M:298:TRP:HE1	1:M:728:ILE:HG22	1.82	0.45
1:Q:398:GLU:OE2	1:Q:651:LYS:NZ	2.48	0.45
1:T:343:GLN:HG2	1:T:404:MET:HG2	1.99	0.45
1:U:530:LYS:HG2	1:U:531:ASP:N	2.22	0.45
1:f:409:ASN:ND2	1:z:224:ASN:OD1	2.39	0.45
1:h:343:GLN:HG2	1:h:404:MET:HG2	1.99	0.45
1:l:299:GLN:NE2	1:l:702:TYR:O	2.49	0.45
1:o:288:ARG:CZ	1:o:290:HIS:HE1	2.30	0.45
1:t:343:GLN:HG2	1:t:404:MET:HG2	1.98	0.45
1:x:398:GLU:OE2	1:x:651:LYS:NZ	2.47	0.45
1:2:343:GLN:HG2	1:2:404:MET:HG2	1.99	0.45
1:8:299:GLN:NE2	1:8:702:TYR:O	2.49	0.45
1:B:288:ARG:CZ	1:B:290:HIS:HE1	2.30	0.45
1:F:398:GLU:OE2	1:F:651:LYS:NZ	2.47	0.45
1:F:487:ARG:NH2	1:F:598:ASN:OD1	2.49	0.45
1:J:298:TRP:HE1	1:J:728:ILE:HG22	1.82	0.45
1:J:343:GLN:HG2	1:J:404:MET:HG2	1.99	0.45
1:K:343:GLN:HG2	1:K:404:MET:HG2	1.99	0.45
1:L:224:ASN:OD1	1:b:409:ASN:ND2	2.39	0.45
1:L:299:GLN:NE2	1:L:702:TYR:O	2.49	0.45
1:M:343:GLN:HG2	1:M:404:MET:HG2	1.99	0.45
1:N:288:ARG:CZ	1:N:290:HIS:HE1	2.30	0.45
1:O:299:GLN:NE2	1:O:702:TYR:O	2.49	0.45
1:X:288:ARG:CZ	1:X:290:HIS:HE1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:288:ARG:CZ	1:i:290:HIS:HE1	2.30	0.45
1:i:398:GLU:OE2	1:i:651:LYS:NZ	2.48	0.45
1:k:299:GLN:NE2	1:k:702:TYR:O	2.49	0.45
1:k:432:LEU:HD21	1:k:607:VAL:HG21	1.97	0.45
1:l:487:ARG:NH2	1:l:598:ASN:OD1	2.49	0.45
1:o:343:GLN:HG2	1:o:404:MET:HG2	1.98	0.45
1:o:487:ARG:NH2	1:o:598:ASN:OD1	2.49	0.45
1:o:703:THR:HG1	1:6:703:THR:HG1	1.61	0.45
1:s:487:ARG:NH2	1:s:598:ASN:OD1	2.49	0.45
1:v:288:ARG:CZ	1:v:290:HIS:HE1	2.30	0.45
1:x:298:TRP:HE1	1:x:728:ILE:HG22	1.82	0.45
1:y:487:ARG:NH2	1:y:598:ASN:OD1	2.49	0.45
1:1:288:ARG:CZ	1:1:290:HIS:HE1	2.30	0.45
1:2:298:TRP:HE1	1:2:728:ILE:HG22	1.82	0.45
1:4:343:GLN:HG2	1:4:404:MET:HG2	1.99	0.45
1:4:487:ARG:NH2	1:4:598:ASN:OD1	2.49	0.45
1:A:373:MET:CE	1:E:664:THR:H	2.29	0.45
1:D:299:GLN:NE2	1:D:702:TYR:O	2.49	0.45
1:E:343:GLN:HG2	1:E:404:MET:HG2	1.99	0.45
1:L:298:TRP:HE1	1:L:728:ILE:HG22	1.82	0.45
1:O:487:ARG:NH2	1:O:598:ASN:OD1	2.49	0.45
1:Q:298:TRP:HE1	1:Q:728:ILE:HG22	1.82	0.45
1:U:343:GLN:HG2	1:U:404:MET:HG2	1.99	0.45
1:X:299:GLN:NE2	1:X:702:TYR:O	2.49	0.45
1:Z:288:ARG:CZ	1:Z:290:HIS:HE1	2.30	0.45
1:a:256:HIS:HD2	1:a:654:PRO:HG3	1.80	0.45
1:f:553:LYS:HG2	1:g:466:TYR:CD1	2.52	0.45
1:h:298:TRP:HE1	1:h:728:ILE:HG22	1.82	0.45
1:p:703:THR:CG2	1:s:701:GLN:N	2.50	0.45
1:q:256:HIS:HD2	1:q:654:PRO:HG3	1.80	0.45
1:t:299:GLN:NE2	1:t:702:TYR:O	2.49	0.45
1:w:343:GLN:HG2	1:w:404:MET:HG2	1.99	0.45
1:y:298:TRP:HE1	1:y:728:ILE:HG22	1.82	0.45
1:z:288:ARG:CZ	1:z:290:HIS:HE1	2.30	0.45
1:8:288:ARG:CZ	1:8:290:HIS:HE1	2.30	0.45
1:F:298:TRP:HE1	1:F:728:ILE:HG22	1.82	0.45
1:G:299:GLN:NE2	1:G:702:TYR:O	2.49	0.45
1:K:298:TRP:HE1	1:K:728:ILE:HG22	1.82	0.45
1:L:286:PHE:CD1	1:L:286:PHE:O	2.70	0.45
1:L:288:ARG:CZ	1:L:290:HIS:HE1	2.30	0.45
1:M:286:PHE:O	1:M:286:PHE:CD1	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:398:GLU:OE2	1:N:651:LYS:NZ	2.47	0.45
1:S:288:ARG:CZ	1:S:290:HIS:HE1	2.30	0.45
1:T:298:TRP:HE1	1:T:728:ILE:HG22	1.82	0.45
1:U:703:THR:CG2	1:V:701:GLN:N	2.49	0.45
1:X:343:GLN:HG2	1:X:404:MET:HG2	1.99	0.45
1:Y:286:PHE:O	1:Y:286:PHE:CD1	2.70	0.45
1:Z:298:TRP:HE1	1:Z:728:ILE:HG22	1.82	0.45
1:a:286:PHE:O	1:a:286:PHE:CD1	2.70	0.45
1:a:298:TRP:HE1	1:a:728:ILE:HG22	1.82	0.45
1:b:286:PHE:CD1	1:b:286:PHE:O	2.70	0.45
1:d:343:GLN:HG2	1:d:404:MET:HG2	1.99	0.45
1:f:286:PHE:O	1:f:286:PHE:CD1	2.70	0.45
1:f:298:TRP:HE1	1:f:728:ILE:HG22	1.82	0.45
1:h:286:PHE:O	1:h:286:PHE:CD1	2.70	0.45
1:k:286:PHE:O	1:k:286:PHE:CD1	2.70	0.45
1:m:298:TRP:HE1	1:m:728:ILE:HG22	1.82	0.45
1:n:343:GLN:HG2	1:n:404:MET:HG2	1.98	0.45
1:p:409:ASN:ND2	1:6:224:ASN:OD1	2.39	0.45
1:q:298:TRP:HE1	1:q:728:ILE:HG22	1.82	0.45
1:r:288:ARG:CZ	1:r:290:HIS:HE1	2.30	0.45
1:y:398:GLU:OE2	1:y:651:LYS:NZ	2.47	0.45
1:z:286:PHE:CD1	1:z:286:PHE:O	2.70	0.45
1:z:298:TRP:HE1	1:z:728:ILE:HG22	1.82	0.45
1:2:299:GLN:NE2	1:2:702:TYR:O	2.49	0.45
1:3:256:HIS:HD2	1:3:654:PRO:HG3	1.80	0.45
1:3:298:TRP:HE1	1:3:728:ILE:HG22	1.82	0.45
1:4:298:TRP:HE1	1:4:728:ILE:HG22	1.82	0.45
1:6:298:TRP:HE1	1:6:728:ILE:HG22	1.82	0.45
1:7:288:ARG:CZ	1:7:290:HIS:HE1	2.30	0.45
1:8:298:TRP:HE1	1:8:728:ILE:HG22	1.82	0.45
1:A:530:LYS:HG2	1:A:531:ASP:N	2.22	0.45
1:A:701:GLN:H	1:F:703:THR:HG22	1.67	0.45
1:C:275:PHE:HB3	1:C:383:ASN:HB3	1.99	0.45
1:D:286:PHE:CD1	1:D:286:PHE:O	2.70	0.45
1:R:298:TRP:HE1	1:R:728:ILE:HG22	1.82	0.45
1:T:400:PHE:CD1	1:l:694:LYS:HE2	2.52	0.45
1:W:298:TRP:HE1	1:W:728:ILE:HG22	1.82	0.45
1:W:487:ARG:NH2	1:W:598:ASN:OD1	2.49	0.45
1:Y:288:ARG:CZ	1:Y:290:HIS:HE1	2.30	0.45
1:b:298:TRP:HE1	1:b:728:ILE:HG22	1.82	0.45
1:c:275:PHE:HB3	1:c:383:ASN:HB3	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:288:ARG:CZ	1:c:290:HIS:HE1	2.30	0.45
1:d:298:TRP:HE1	1:d:728:ILE:HG22	1.82	0.45
1:e:275:PHE:HB3	1:e:383:ASN:HB3	2.00	0.45
1:e:288:ARG:CZ	1:e:290:HIS:HE1	2.30	0.45
1:i:286:PHE:O	1:i:286:PHE:CD1	2.70	0.45
1:n:298:TRP:HE1	1:n:728:ILE:HG22	1.82	0.45
1:o:256:HIS:HD2	1:o:654:PRO:HG3	1.80	0.45
1:v:298:TRP:HE1	1:v:728:ILE:HG22	1.82	0.45
1:v:487:ARG:NH2	1:v:598:ASN:OD1	2.49	0.45
1:3:286:PHE:O	1:3:286:PHE:CD1	2.70	0.45
1:4:288:ARG:CZ	1:4:290:HIS:HE1	2.30	0.45
1:6:288:ARG:CZ	1:6:290:HIS:HE1	2.30	0.45
1:6:299:GLN:NE2	1:6:702:TYR:O	2.49	0.45
1:6:487:ARG:NH2	1:6:598:ASN:OD1	2.49	0.45
1:7:286:PHE:CD1	1:7:286:PHE:O	2.70	0.45
1:A:298:TRP:HE1	1:A:728:ILE:HG22	1.82	0.44
1:A:487:ARG:NH2	1:A:598:ASN:OD1	2.49	0.44
1:E:288:ARG:CZ	1:E:290:HIS:HE1	2.30	0.44
1:H:286:PHE:O	1:H:286:PHE:CD1	2.70	0.44
1:I:286:PHE:O	1:I:286:PHE:CD1	2.70	0.44
1:J:299:GLN:NE2	1:J:702:TYR:O	2.49	0.44
1:K:288:ARG:CZ	1:K:290:HIS:HE1	2.30	0.44
1:L:343:GLN:HG2	1:L:404:MET:HG2	1.98	0.44
1:M:275:PHE:HB3	1:M:383:ASN:HB3	2.00	0.44
1:N:275:PHE:HB3	1:N:383:ASN:HB3	2.00	0.44
1:N:286:PHE:O	1:N:286:PHE:CD1	2.70	0.44
1:P:286:PHE:O	1:P:286:PHE:CD1	2.70	0.44
1:R:256:HIS:HD2	1:R:654:PRO:HG3	1.80	0.44
1:S:286:PHE:O	1:S:286:PHE:CD1	2.70	0.44
1:T:487:ARG:NH2	1:T:598:ASN:OD1	2.49	0.44
1:W:288:ARG:CZ	1:W:290:HIS:HE1	2.30	0.44
1:W:299:GLN:NE2	1:W:702:TYR:O	2.49	0.44
1:W:343:GLN:HG2	1:W:404:MET:HG2	1.99	0.44
1:Y:343:GLN:HG2	1:Y:404:MET:HG2	1.98	0.44
1:Z:343:GLN:HG2	1:Z:404:MET:HG2	1.98	0.44
1:a:288:ARG:CZ	1:a:290:HIS:HE1	2.30	0.44
1:a:709:GLN:NE2	1:a:711:GLY:O	2.51	0.44
1:g:275:PHE:HB3	1:g:383:ASN:HB3	2.00	0.44
1:i:275:PHE:HB3	1:i:383:ASN:HB3	2.00	0.44
1:i:285:ASP:HB3	1:i:363:CYS:SG	2.58	0.44
1:i:343:GLN:HG2	1:i:404:MET:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:286:PHE:CD1	1:j:286:PHE:O	2.70	0.44
1:j:432:LEU:HD21	1:j:607:VAL:HG21	1.97	0.44
1:n:286:PHE:O	1:n:286:PHE:CD1	2.70	0.44
1:o:275:PHE:HB3	1:o:383:ASN:HB3	1.99	0.44
1:o:299:GLN:NE2	1:o:702:TYR:O	2.49	0.44
1:s:530:LYS:HG2	1:s:531:ASP:N	2.22	0.44
1:u:286:PHE:CD1	1:u:286:PHE:O	2.70	0.44
1:w:709:GLN:NE2	1:w:711:GLY:O	2.50	0.44
1:x:286:PHE:CD1	1:x:286:PHE:O	2.70	0.44
1:y:256:HIS:HD2	1:y:654:PRO:HG3	1.80	0.44
1:y:343:GLN:HG2	1:y:404:MET:HG2	1.99	0.44
1:3:288:ARG:CZ	1:3:290:HIS:HE1	2.30	0.44
1:3:709:GLN:NE2	1:3:711:GLY:O	2.51	0.44
1:5:286:PHE:O	1:5:286:PHE:CD1	2.70	0.44
1:5:398:GLU:OE2	1:5:651:LYS:NZ	2.47	0.44
1:7:343:GLN:HG2	1:7:404:MET:HG2	1.98	0.44
1:7:701:GLN:H	1:8:703:THR:HG22	1.69	0.44
1:8:343:GLN:HG2	1:8:404:MET:HG2	1.99	0.44
1:A:343:GLN:HG2	1:A:404:MET:HG2	1.99	0.44
1:A:384:ASN:ND2	1:I:532:ASP:OD1	2.39	0.44
1:B:286:PHE:CD1	1:B:286:PHE:O	2.70	0.44
1:E:709:GLN:NE2	1:E:711:GLY:O	2.51	0.44
1:F:288:ARG:CZ	1:F:290:HIS:HE1	2.30	0.44
1:F:343:GLN:HG2	1:F:404:MET:HG2	1.99	0.44
1:G:274:TYR:HA	1:G:383:ASN:ND2	2.33	0.44
1:H:275:PHE:HB3	1:H:383:ASN:HB3	2.00	0.44
1:H:298:TRP:HE1	1:H:728:ILE:HG22	1.82	0.44
1:N:285:ASP:HB3	1:N:363:CYS:SG	2.58	0.44
1:N:343:GLN:HG2	1:N:404:MET:HG2	1.99	0.44
1:O:286:PHE:CD1	1:O:286:PHE:O	2.70	0.44
1:R:343:GLN:HG2	1:R:404:MET:HG2	1.98	0.44
1:T:709:GLN:NE2	1:T:711:GLY:O	2.51	0.44
1:V:409:ASN:ND2	1:W:224:ASN:OD1	2.40	0.44
1:X:275:PHE:HB3	1:X:383:ASN:HB3	2.00	0.44
1:X:298:TRP:HE1	1:X:728:ILE:HG22	1.82	0.44
1:Y:298:TRP:HE1	1:Y:728:ILE:HG22	1.82	0.44
1:d:286:PHE:O	1:d:286:PHE:CD1	2.70	0.44
1:h:275:PHE:HB3	1:h:383:ASN:HB3	2.00	0.44
1:k:288:ARG:CZ	1:k:290:HIS:HE1	2.30	0.44
1:m:487:ARG:NH2	1:m:598:ASN:OD1	2.49	0.44
1:m:709:GLN:NE2	1:m:711:GLY:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:298:TRP:HE1	1:o:728:ILE:HG22	1.82	0.44
1:o:709:GLN:NE2	1:o:711:GLY:O	2.51	0.44
1:p:286:PHE:O	1:p:286:PHE:CD1	2.70	0.44
1:r:286:PHE:CD1	1:r:286:PHE:O	2.70	0.44
1:u:703:THR:HG22	1:1:701:GLN:H	1.70	0.44
1:v:343:GLN:HG2	1:v:404:MET:HG2	1.99	0.44
1:w:288:ARG:CZ	1:w:290:HIS:HE1	2.30	0.44
1:z:343:GLN:HG2	1:z:404:MET:HG2	1.99	0.44
1:5:275:PHE:HB3	1:5:383:ASN:HB3	2.00	0.44
1:5:298:TRP:HE1	1:5:728:ILE:HG22	1.82	0.44
1:6:343:GLN:HG2	1:6:404:MET:HG2	1.99	0.44
1:7:298:TRP:HE1	1:7:728:ILE:HG22	1.82	0.44
1:A:694:LYS:HE2	1:G:400:PHE:CD1	2.52	0.44
1:B:709:GLN:NE2	1:B:711:GLY:O	2.51	0.44
1:F:286:PHE:O	1:F:286:PHE:CD1	2.70	0.44
1:F:709:GLN:NE2	1:F:711:GLY:O	2.51	0.44
1:G:298:TRP:HE1	1:G:728:ILE:HG22	1.82	0.44
1:I:343:GLN:HG2	1:I:404:MET:HG2	1.99	0.44
1:L:285:ASP:HB3	1:L:363:CYS:SG	2.58	0.44
1:P:285:ASP:HB3	1:P:363:CYS:SG	2.58	0.44
1:P:432:LEU:HD21	1:P:607:VAL:HG21	1.97	0.44
1:Q:286:PHE:O	1:Q:286:PHE:CD1	2.70	0.44
1:Q:343:GLN:HG2	1:Q:404:MET:HG2	1.98	0.44
1:T:275:PHE:HB3	1:T:383:ASN:HB3	2.00	0.44
1:V:285:ASP:HB3	1:V:363:CYS:SG	2.58	0.44
1:V:286:PHE:O	1:V:286:PHE:CD1	2.70	0.44
1:X:256:HIS:HD2	1:X:654:PRO:HG3	1.80	0.44
1:X:709:GLN:NE2	1:X:711:GLY:O	2.51	0.44
1:f:530:LYS:HG2	1:f:531:ASP:N	2.22	0.44
1:g:274:TYR:HA	1:g:383:ASN:ND2	2.33	0.44
1:l:286:PHE:O	1:l:286:PHE:CD1	2.70	0.44
1:p:285:ASP:HB3	1:p:363:CYS:SG	2.58	0.44
1:q:285:ASP:HB3	1:q:363:CYS:SG	2.58	0.44
1:q:343:GLN:HG2	1:q:404:MET:HG2	1.99	0.44
1:t:286:PHE:O	1:t:286:PHE:CD1	2.70	0.44
1:t:709:GLN:NE2	1:t:711:GLY:O	2.51	0.44
1:u:343:GLN:HG2	1:u:404:MET:HG2	1.99	0.44
1:z:285:ASP:HB3	1:z:363:CYS:SG	2.58	0.44
1:z:299:GLN:NE2	1:z:702:TYR:O	2.49	0.44
1:1:286:PHE:CD1	1:1:286:PHE:O	2.70	0.44
1:5:709:GLN:NE2	1:5:711:GLY:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:285:ASP:HB3	1:A:363:CYS:SG	2.58	0.44
1:B:275:PHE:HB3	1:B:383:ASN:HB3	1.99	0.44
1:C:274:TYR:HA	1:C:383:ASN:ND2	2.33	0.44
1:C:285:ASP:HB3	1:C:363:CYS:SG	2.58	0.44
1:D:274:TYR:HA	1:D:383:ASN:ND2	2.33	0.44
1:D:288:ARG:CZ	1:D:290:HIS:HE1	2.30	0.44
1:D:709:GLN:NE2	1:D:711:GLY:O	2.51	0.44
1:F:256:HIS:HD2	1:F:654:PRO:HG3	1.80	0.44
1:F:274:TYR:HA	1:F:383:ASN:ND2	2.33	0.44
1:G:286:PHE:CD1	1:G:286:PHE:O	2.70	0.44
1:G:709:GLN:NE2	1:G:711:GLY:O	2.51	0.44
1:H:343:GLN:HG2	1:H:404:MET:HG2	1.98	0.44
1:H:398:GLU:OE2	1:H:651:LYS:NZ	2.48	0.44
1:O:275:PHE:HB3	1:O:383:ASN:HB3	1.99	0.44
1:R:274:TYR:HA	1:R:383:ASN:ND2	2.33	0.44
1:R:285:ASP:HB3	1:R:363:CYS:SG	2.58	0.44
1:T:286:PHE:CD1	1:T:286:PHE:O	2.70	0.44
1:U:298:TRP:HE1	1:U:728:ILE:HG22	1.82	0.44
1:V:709:GLN:NE2	1:V:711:GLY:O	2.50	0.44
1:X:285:ASP:HB3	1:X:363:CYS:SG	2.58	0.44
1:Y:285:ASP:HB3	1:Y:363:CYS:SG	2.58	0.44
1:Y:701:GLN:H	1:Z:703:THR:HG22	1.69	0.44
1:b:530:LYS:HG2	1:b:531:ASP:N	2.22	0.44
1:g:285:ASP:HB3	1:g:363:CYS:SG	2.58	0.44
1:g:373:MET:CE	1:1:664:THR:H	2.30	0.44
1:j:285:ASP:HB3	1:j:363:CYS:SG	2.58	0.44
1:k:274:TYR:HA	1:k:383:ASN:ND2	2.33	0.44
1:l:275:PHE:HB3	1:l:383:ASN:HB3	2.00	0.44
1:m:286:PHE:CD1	1:m:286:PHE:O	2.70	0.44
1:p:701:GLN:N	1:s:703:THR:CG2	2.50	0.44
1:p:709:GLN:NE2	1:p:711:GLY:O	2.50	0.44
1:q:274:TYR:HA	1:q:383:ASN:ND2	2.33	0.44
1:r:409:ASN:ND2	1:x:224:ASN:OD1	2.40	0.44
1:s:709:GLN:NE2	1:s:711:GLY:O	2.51	0.44
1:t:274:TYR:HA	1:t:383:ASN:ND2	2.33	0.44
1:t:694:LYS:HE2	1:u:400:PHE:CD1	2.53	0.44
1:u:274:TYR:HA	1:u:383:ASN:ND2	2.33	0.44
1:v:285:ASP:HB3	1:v:363:CYS:SG	2.58	0.44
1:w:286:PHE:CD1	1:w:286:PHE:O	2.70	0.44
1:x:343:GLN:HG2	1:x:404:MET:HG2	1.99	0.44
1:y:274:TYR:HA	1:y:383:ASN:ND2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:286:PHE:O	1:y:286:PHE:CD1	2.70	0.44
1:y:709:GLN:NE2	1:y:711:GLY:O	2.51	0.44
1:1:709:GLN:NE2	1:1:711:GLY:O	2.51	0.44
1:7:285:ASP:HB3	1:7:363:CYS:SG	2.58	0.44
1:8:709:GLN:NE2	1:8:711:GLY:O	2.50	0.44
1:A:274:TYR:HA	1:A:383:ASN:ND2	2.33	0.44
1:B:701:GLN:H	1:I:703:THR:HG22	1.71	0.44
1:C:298:TRP:HE1	1:C:728:ILE:HG22	1.82	0.44
1:E:286:PHE:O	1:E:286:PHE:CD1	2.70	0.44
1:F:285:ASP:HB3	1:F:363:CYS:SG	2.58	0.44
1:H:274:TYR:HA	1:H:383:ASN:ND2	2.33	0.44
1:H:709:GLN:NE2	1:H:711:GLY:O	2.51	0.44
1:I:274:TYR:HA	1:I:383:ASN:ND2	2.33	0.44
1:J:274:TYR:HA	1:J:383:ASN:ND2	2.33	0.44
1:K:275:PHE:HB3	1:K:383:ASN:HB3	2.00	0.44
1:P:275:PHE:HB3	1:P:383:ASN:HB3	2.00	0.44
1:R:288:ARG:CZ	1:R:290:HIS:HE1	2.30	0.44
1:S:709:GLN:NE2	1:S:711:GLY:O	2.51	0.44
1:U:709:GLN:NE2	1:U:711:GLY:O	2.51	0.44
1:V:274:TYR:HA	1:V:383:ASN:ND2	2.33	0.44
1:Y:274:TYR:HA	1:Y:383:ASN:ND2	2.33	0.44
1:Y:425:SER:O	1:Y:731:ARG:HA	2.18	0.44
1:Y:709:GLN:NE2	1:Y:711:GLY:O	2.51	0.44
1:Z:275:PHE:HB3	1:Z:383:ASN:HB3	2.00	0.44
1:Z:709:GLN:NE2	1:Z:711:GLY:O	2.50	0.44
1:b:285:ASP:HB3	1:b:363:CYS:SG	2.58	0.44
1:b:343:GLN:HG2	1:b:404:MET:HG2	1.98	0.44
1:d:275:PHE:HB3	1:d:383:ASN:HB3	2.00	0.44
1:g:298:TRP:HE1	1:g:728:ILE:HG22	1.82	0.44
1:k:709:GLN:NE2	1:k:711:GLY:O	2.51	0.44
1:m:275:PHE:HB3	1:m:383:ASN:HB3	2.00	0.44
1:o:285:ASP:HB3	1:o:363:CYS:SG	2.58	0.44
1:p:274:TYR:HA	1:p:383:ASN:ND2	2.33	0.44
1:s:298:TRP:HE1	1:s:728:ILE:HG22	1.82	0.44
1:s:425:SER:O	1:s:731:ARG:HA	2.18	0.44
1:v:274:TYR:HA	1:v:383:ASN:ND2	2.33	0.44
1:v:530:LYS:HG2	1:v:531:ASP:N	2.22	0.44
1:x:285:ASP:HB3	1:x:363:CYS:SG	2.58	0.44
1:y:285:ASP:HB3	1:y:363:CYS:SG	2.58	0.44
1:y:288:ARG:CZ	1:y:290:HIS:HE1	2.30	0.44
1:4:286:PHE:CD1	1:4:286:PHE:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:274:TYR:HA	1:5:383:ASN:ND2	2.33	0.44
1:5:288:ARG:CZ	1:5:290:HIS:HE1	2.30	0.44
1:5:343:GLN:HG2	1:5:404:MET:HG2	1.99	0.44
1:7:274:TYR:HA	1:7:383:ASN:ND2	2.33	0.44
1:7:425:SER:O	1:7:731:ARG:HA	2.18	0.44
1:8:275:PHE:HB3	1:8:383:ASN:HB3	2.00	0.44
1:A:474:ALA:H	1:G:272:ASN:ND2	2.15	0.44
1:C:288:ARG:CZ	1:C:290:HIS:HE1	2.30	0.44
1:C:703:THR:CG2	1:L:701:GLN:N	2.50	0.44
1:E:285:ASP:HB3	1:E:363:CYS:SG	2.58	0.44
1:E:425:SER:O	1:E:731:ARG:HA	2.18	0.44
1:K:286:PHE:O	1:K:286:PHE:CD1	2.70	0.44
1:K:625:HIS:O	1:8:428:HIS:HE1	2.01	0.44
1:L:275:PHE:HB3	1:L:383:ASN:HB3	1.99	0.44
1:M:288:ARG:CZ	1:M:290:HIS:HE1	2.30	0.44
1:M:487:ARG:NH2	1:M:598:ASN:OD1	2.49	0.44
1:O:425:SER:O	1:O:731:ARG:HA	2.18	0.44
1:P:709:GLN:NE2	1:P:711:GLY:O	2.51	0.44
1:Q:285:ASP:HB3	1:Q:363:CYS:SG	2.58	0.44
1:Q:288:ARG:CZ	1:Q:290:HIS:HE1	2.30	0.44
1:R:425:SER:O	1:R:731:ARG:HA	2.18	0.44
1:T:428:HIS:HE1	1:d:625:HIS:O	2.01	0.44
1:U:274:TYR:HA	1:U:383:ASN:ND2	2.33	0.44
1:U:285:ASP:HB3	1:U:363:CYS:SG	2.58	0.44
1:U:425:SER:O	1:U:731:ARG:HA	2.18	0.44
1:W:286:PHE:CD1	1:W:286:PHE:O	2.70	0.44
1:Y:487:ARG:NH2	1:Y:598:ASN:OD1	2.49	0.44
1:a:425:SER:O	1:a:731:ARG:HA	2.18	0.44
1:c:428:HIS:HE1	1:o:625:HIS:O	2.01	0.44
1:d:285:ASP:HB3	1:d:363:CYS:SG	2.58	0.44
1:e:274:TYR:HA	1:e:383:ASN:ND2	2.33	0.44
1:f:285:ASP:HB3	1:f:363:CYS:SG	2.58	0.44
1:g:288:ARG:CZ	1:g:290:HIS:HE1	2.30	0.44
1:i:298:TRP:HE1	1:i:728:ILE:HG22	1.82	0.44
1:j:275:PHE:HB3	1:j:383:ASN:HB3	2.00	0.44
1:j:709:GLN:NE2	1:j:711:GLY:O	2.51	0.44
1:l:274:TYR:HA	1:l:383:ASN:ND2	2.33	0.44
1:l:288:ARG:CZ	1:l:290:HIS:HE1	2.30	0.44
1:n:275:PHE:HB3	1:n:383:ASN:HB3	2.00	0.44
1:n:285:ASP:HB3	1:n:363:CYS:SG	2.58	0.44
1:n:288:ARG:CZ	1:n:290:HIS:HE1	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:288:ARG:CZ	1:q:290:HIS:HE1	2.30	0.44
1:q:425:SER:O	1:q:731:ARG:HA	2.18	0.44
1:r:425:SER:O	1:r:731:ARG:HA	2.18	0.44
1:r:709:GLN:NE2	1:r:711:GLY:O	2.51	0.44
1:s:275:PHE:HB3	1:s:383:ASN:HB3	1.99	0.44
1:t:298:TRP:HE1	1:t:728:ILE:HG22	1.82	0.44
1:u:256:HIS:HD2	1:u:654:PRO:HG3	1.80	0.44
1:w:285:ASP:HB3	1:w:363:CYS:SG	2.58	0.44
1:w:425:SER:O	1:w:731:ARG:HA	2.18	0.44
1:1:298:TRP:HE1	1:1:728:ILE:HG22	1.82	0.44
1:2:274:TYR:HA	1:2:383:ASN:ND2	2.33	0.44
1:2:286:PHE:CD1	1:2:286:PHE:O	2.70	0.44
1:3:425:SER:O	1:3:731:ARG:HA	2.18	0.44
1:4:275:PHE:HB3	1:4:383:ASN:HB3	2.00	0.44
1:6:286:PHE:O	1:6:286:PHE:CD1	2.70	0.44
1:7:709:GLN:NE2	1:7:711:GLY:O	2.51	0.44
1:A:286:PHE:O	1:A:286:PHE:CD1	2.70	0.44
1:A:425:SER:O	1:A:731:ARG:HA	2.18	0.44
1:B:425:SER:O	1:B:731:ARG:HA	2.18	0.44
1:F:530:LYS:HG2	1:F:531:ASP:N	2.22	0.44
1:I:425:SER:O	1:I:731:ARG:HA	2.18	0.44
1:J:286:PHE:CD1	1:J:286:PHE:O	2.70	0.44
1:K:285:ASP:HB3	1:K:363:CYS:SG	2.58	0.44
1:M:425:SER:O	1:M:731:ARG:HA	2.18	0.44
1:O:274:TYR:HA	1:O:383:ASN:ND2	2.33	0.44
1:O:288:ARG:CZ	1:O:290:HIS:HE1	2.30	0.44
1:R:275:PHE:HB3	1:R:383:ASN:HB3	2.00	0.44
1:S:425:SER:O	1:S:731:ARG:HA	2.18	0.44
1:U:275:PHE:HB3	1:U:383:ASN:HB3	2.00	0.44
1:X:625:HIS:O	1:e:428:HIS:HE1	2.01	0.44
1:Z:428:HIS:HE1	1:4:625:HIS:O	2.01	0.44
1:c:286:PHE:O	1:c:286:PHE:CD1	2.70	0.44
1:c:709:GLN:NE2	1:c:711:GLY:O	2.51	0.44
1:e:286:PHE:CD1	1:e:286:PHE:O	2.70	0.44
1:e:487:ARG:NH2	1:e:598:ASN:OD1	2.49	0.44
1:e:709:GLN:NE2	1:e:711:GLY:O	2.51	0.44
1:l:256:HIS:HD2	1:l:654:PRO:HG3	1.80	0.44
1:l:425:SER:O	1:l:731:ARG:HA	2.18	0.44
1:p:256:HIS:HD2	1:p:654:PRO:HG3	1.80	0.44
1:q:275:PHE:HB3	1:q:383:ASN:HB3	2.00	0.44
1:q:709:GLN:NE2	1:q:711:GLY:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:274:TYR:HA	1:s:383:ASN:ND2	2.33	0.44
1:s:285:ASP:HB3	1:s:363:CYS:SG	2.58	0.44
1:s:286:PHE:O	1:s:286:PHE:CD1	2.70	0.44
1:v:425:SER:O	1:v:731:ARG:HA	2.18	0.44
1:x:288:ARG:CZ	1:x:290:HIS:HE1	2.30	0.44
1:z:275:PHE:HB3	1:z:383:ASN:HB3	1.99	0.44
1:1:275:PHE:HB3	1:1:383:ASN:HB3	2.00	0.44
1:4:285:ASP:HB3	1:4:363:CYS:SG	2.58	0.44
1:7:487:ARG:NH2	1:7:598:ASN:OD1	2.49	0.44
1:H:288:ARG:CZ	1:H:290:HIS:HE1	2.30	0.44
1:J:285:ASP:HB3	1:J:363:CYS:SG	2.58	0.44
1:J:288:ARG:CZ	1:J:290:HIS:HE1	2.30	0.44
1:L:274:TYR:HA	1:L:383:ASN:ND2	2.33	0.44
1:L:425:SER:O	1:L:731:ARG:HA	2.18	0.44
1:M:709:GLN:NE2	1:M:711:GLY:O	2.50	0.44
1:N:298:TRP:HE1	1:N:728:ILE:HG22	1.82	0.44
1:O:694:LYS:HE2	1:m:400:PHE:CD1	2.53	0.44
1:Q:709:GLN:NE2	1:Q:711:GLY:O	2.51	0.44
1:R:709:GLN:NE2	1:R:711:GLY:O	2.51	0.44
1:T:290:HIS:HD2	1:T:366:PRO:HB3	1.83	0.44
1:V:275:PHE:HB3	1:V:383:ASN:HB3	2.00	0.44
1:V:694:LYS:HE2	1:e:400:PHE:CD1	2.53	0.44
1:Y:290:HIS:HD2	1:Y:366:PRO:HB3	1.83	0.44
1:b:274:TYR:HA	1:b:383:ASN:ND2	2.33	0.44
1:c:274:TYR:HA	1:c:383:ASN:ND2	2.33	0.44
1:c:285:ASP:HB3	1:c:363:CYS:SG	2.58	0.44
1:d:288:ARG:CZ	1:d:290:HIS:HE1	2.30	0.44
1:e:285:ASP:HB3	1:e:363:CYS:SG	2.58	0.44
1:f:274:TYR:HA	1:f:383:ASN:ND2	2.33	0.44
1:f:275:PHE:HB3	1:f:383:ASN:HB3	2.00	0.44
1:f:343:GLN:HG2	1:f:404:MET:HG2	1.99	0.44
1:h:288:ARG:CZ	1:h:290:HIS:HE1	2.30	0.44
1:h:425:SER:O	1:h:731:ARG:HA	2.18	0.44
1:h:487:ARG:NH2	1:h:598:ASN:OD1	2.49	0.44
1:h:709:GLN:NE2	1:h:711:GLY:O	2.51	0.44
1:l:285:ASP:HB3	1:l:363:CYS:SG	2.58	0.44
1:l:290:HIS:HD2	1:l:366:PRO:HB3	1.82	0.44
1:n:425:SER:O	1:n:731:ARG:HA	2.18	0.44
1:o:428:HIS:HE1	1:p:625:HIS:O	2.01	0.44
1:o:694:LYS:HE2	1:p:400:PHE:CD1	2.53	0.44
1:p:275:PHE:HB3	1:p:383:ASN:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:425:SER:O	1:u:731:ARG:HA	2.18	0.44
1:x:709:GLN:NE2	1:x:711:GLY:O	2.50	0.44
1:z:274:TYR:HA	1:z:383:ASN:ND2	2.33	0.44
1:z:425:SER:O	1:z:731:ARG:HA	2.18	0.44
1:A:275:PHE:HB3	1:A:383:ASN:HB3	2.00	0.44
1:B:298:TRP:HE1	1:B:728:ILE:HG22	1.82	0.44
1:D:425:SER:O	1:D:731:ARG:HA	2.18	0.44
1:G:487:ARG:NH2	1:G:598:ASN:OD1	2.49	0.44
1:H:487:ARG:NH2	1:H:598:ASN:OD1	2.49	0.44
1:O:256:HIS:HD2	1:O:654:PRO:HG3	1.80	0.44
1:O:709:GLN:NE2	1:O:711:GLY:O	2.50	0.44
1:P:224:ASN:OD1	1:Q:409:ASN:ND2	2.39	0.44
1:S:285:ASP:HB3	1:S:363:CYS:SG	2.58	0.44
1:T:288:ARG:CZ	1:T:290:HIS:HE1	2.30	0.44
1:T:373:MET:CE	1:U:664:THR:H	2.31	0.44
1:U:286:PHE:CD1	1:U:286:PHE:O	2.70	0.44
1:W:709:GLN:NE2	1:W:711:GLY:O	2.51	0.44
1:Z:425:SER:O	1:Z:731:ARG:HA	2.18	0.44
1:Z:625:HIS:O	1:3:428:HIS:HE1	2.01	0.44
1:a:428:HIS:HE1	1:8:625:HIS:O	2.01	0.44
1:b:275:PHE:HB3	1:b:383:ASN:HB3	2.00	0.44
1:c:487:ARG:NH2	1:c:598:ASN:OD1	2.49	0.44
1:d:425:SER:O	1:d:731:ARG:HA	2.18	0.44
1:g:400:PHE:CD1	1:h:694:LYS:HE2	2.52	0.44
1:g:425:SER:O	1:g:731:ARG:HA	2.18	0.44
1:h:308:PHE:HA	1:h:687:GLU:O	2.18	0.44
1:j:425:SER:O	1:j:731:ARG:HA	2.18	0.44
1:l:709:GLN:NE2	1:l:711:GLY:O	2.51	0.44
1:m:290:HIS:HD2	1:m:366:PRO:HB3	1.82	0.44
1:m:428:HIS:HE1	1:n:625:HIS:O	2.01	0.44
1:r:275:PHE:HB3	1:r:383:ASN:HB3	2.00	0.44
1:r:285:ASP:HB3	1:r:363:CYS:SG	2.58	0.44
1:t:256:HIS:HD2	1:t:654:PRO:HG3	1.80	0.44
1:u:290:HIS:HD2	1:u:366:PRO:HB3	1.82	0.44
1:u:709:GLN:NE2	1:u:711:GLY:O	2.51	0.44
1:v:286:PHE:O	1:v:286:PHE:CD1	2.70	0.44
1:1:425:SER:O	1:1:731:ARG:HA	2.18	0.44
1:2:285:ASP:HB3	1:2:363:CYS:SG	2.58	0.44
1:2:288:ARG:CZ	1:2:290:HIS:HE1	2.30	0.44
1:8:285:ASP:HB3	1:8:363:CYS:SG	2.58	0.44
1:8:425:SER:O	1:8:731:ARG:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:490:ARG:O	1:I:586:GLN:NE2	2.50	0.43
1:A:625:HIS:O	1:I:428:HIS:HE1	2.01	0.43
1:C:425:SER:O	1:C:731:ARG:HA	2.18	0.43
1:C:428:HIS:HE1	1:b:625:HIS:O	2.01	0.43
1:F:664:THR:H	1:R:373:MET:CE	2.31	0.43
1:I:256:HIS:HD2	1:I:654:PRO:HG3	1.80	0.43
1:I:709:GLN:NE2	1:I:711:GLY:O	2.51	0.43
1:J:709:GLN:NE2	1:J:711:GLY:O	2.51	0.43
1:M:308:PHE:HA	1:M:687:GLU:O	2.19	0.43
1:O:285:ASP:HB3	1:O:363:CYS:SG	2.58	0.43
1:O:290:HIS:HD2	1:O:366:PRO:HB3	1.83	0.43
1:O:428:HIS:HE1	1:m:625:HIS:O	2.01	0.43
1:P:425:SER:O	1:P:731:ARG:HA	2.18	0.43
1:Q:425:SER:O	1:Q:731:ARG:HA	2.18	0.43
1:R:694:LYS:HE2	1:S:400:PHE:CD1	2.53	0.43
1:S:275:PHE:HB3	1:S:383:ASN:HB3	2.00	0.43
1:T:274:TYR:HA	1:T:383:ASN:ND2	2.33	0.43
1:T:285:ASP:HB3	1:T:363:CYS:SG	2.58	0.43
1:U:308:PHE:HA	1:U:687:GLU:O	2.18	0.43
1:V:400:PHE:CD1	1:X:694:LYS:HE2	2.53	0.43
1:V:664:THR:H	1:W:373:MET:CE	2.31	0.43
1:W:285:ASP:HB3	1:W:363:CYS:SG	2.58	0.43
1:W:703:THR:HG22	1:X:701:GLN:H	1.70	0.43
1:Z:285:ASP:HB3	1:Z:363:CYS:SG	2.58	0.43
1:Z:286:PHE:CD1	1:Z:286:PHE:O	2.70	0.43
1:d:709:GLN:NE2	1:d:711:GLY:O	2.51	0.43
1:f:288:ARG:CZ	1:f:290:HIS:HE1	2.30	0.43
1:f:425:SER:O	1:f:731:ARG:HA	2.18	0.43
1:k:664:THR:H	1:w:373:MET:CE	2.31	0.43
1:m:285:ASP:HB3	1:m:363:CYS:SG	2.58	0.43
1:o:274:TYR:HA	1:o:383:ASN:ND2	2.33	0.43
1:q:373:MET:CE	1:y:664:THR:H	2.31	0.43
1:s:288:ARG:CZ	1:s:290:HIS:HE1	2.30	0.43
1:t:487:ARG:NH2	1:t:598:ASN:OD1	2.49	0.43
1:u:288:ARG:CZ	1:u:290:HIS:HE1	2.30	0.43
1:v:275:PHE:HB3	1:v:383:ASN:HB3	2.00	0.43
1:x:428:HIS:HE1	1:y:625:HIS:O	2.01	0.43
1:y:425:SER:O	1:y:731:ARG:HA	2.18	0.43
1:2:709:GLN:NE2	1:2:711:GLY:O	2.51	0.43
1:6:256:HIS:HD2	1:6:654:PRO:HG3	1.80	0.43
1:6:709:GLN:NE2	1:6:711:GLY:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:290:HIS:HD2	1:7:366:PRO:HB3	1.83	0.43
1:D:664:THR:H	1:E:373:MET:CE	2.32	0.43
1:F:425:SER:O	1:F:731:ARG:HA	2.18	0.43
1:G:373:MET:CE	1:W:664:THR:H	2.32	0.43
1:G:425:SER:O	1:G:731:ARG:HA	2.18	0.43
1:G:701:GLN:N	1:H:703:THR:CG2	2.50	0.43
1:I:308:PHE:HA	1:I:687:GLU:O	2.18	0.43
1:I:373:MET:CE	1:J:664:THR:H	2.31	0.43
1:K:224:ASN:OD1	1:L:409:ASN:ND2	2.40	0.43
1:K:308:PHE:HA	1:K:687:GLU:O	2.19	0.43
1:M:285:ASP:HB3	1:M:363:CYS:SG	2.58	0.43
1:O:298:TRP:HE1	1:O:728:ILE:HG22	1.82	0.43
1:R:308:PHE:HA	1:R:687:GLU:O	2.19	0.43
1:S:308:PHE:HA	1:S:687:GLU:O	2.19	0.43
1:U:288:ARG:CZ	1:U:290:HIS:HE1	2.30	0.43
1:V:256:HIS:HD2	1:V:654:PRO:HG3	1.80	0.43
1:X:274:TYR:HA	1:X:383:ASN:ND2	2.33	0.43
1:X:373:MET:CE	1:Y:664:THR:H	2.31	0.43
1:a:308:PHE:HA	1:a:687:GLU:O	2.19	0.43
1:b:288:ARG:CZ	1:b:290:HIS:HE1	2.30	0.43
1:b:425:SER:O	1:b:731:ARG:HA	2.18	0.43
1:g:308:PHE:HA	1:g:687:GLU:O	2.19	0.43
1:h:285:ASP:HB3	1:h:363:CYS:SG	2.58	0.43
1:i:274:TYR:HA	1:i:383:ASN:ND2	2.33	0.43
1:i:290:HIS:HD2	1:i:366:PRO:HB3	1.82	0.43
1:j:224:ASN:OD1	1:x:409:ASN:ND2	2.39	0.43
1:k:425:SER:O	1:k:731:ARG:HA	2.18	0.43
1:l:343:GLN:HG2	1:l:404:MET:HG2	1.99	0.43
1:l:664:THR:H	1:n:373:MET:CE	2.31	0.43
1:m:288:ARG:CZ	1:m:290:HIS:HE1	2.30	0.43
1:m:373:MET:CE	1:s:664:THR:H	2.32	0.43
1:n:709:GLN:NE2	1:n:711:GLY:O	2.51	0.43
1:q:308:PHE:HA	1:q:687:GLU:O	2.19	0.43
1:q:694:LYS:HE2	1:r:400:PHE:CD1	2.53	0.43
1:r:308:PHE:HA	1:r:687:GLU:O	2.18	0.43
1:t:373:MET:CE	1:6:664:THR:H	2.31	0.43
1:t:425:SER:O	1:t:731:ARG:HA	2.18	0.43
1:3:308:PHE:HA	1:3:687:GLU:O	2.19	0.43
1:5:487:ARG:NH2	1:5:598:ASN:OD1	2.49	0.43
1:8:286:PHE:O	1:8:286:PHE:CD1	2.70	0.43
1:A:553:LYS:HG2	1:I:466:TYR:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:ASP:HB3	1:B:363:CYS:SG	2.58	0.43
1:B:450:THR:HG21	1:J:503:PHE:CZ	2.54	0.43
1:C:308:PHE:HA	1:C:687:GLU:O	2.19	0.43
1:C:398:GLU:OE2	1:C:651:LYS:NZ	2.48	0.43
1:C:487:ARG:NH2	1:C:598:ASN:OD1	2.49	0.43
1:G:256:HIS:HD2	1:G:654:PRO:HG3	1.80	0.43
1:G:285:ASP:HB3	1:G:363:CYS:SG	2.58	0.43
1:I:288:ARG:CZ	1:I:290:HIS:HE1	2.30	0.43
1:L:308:PHE:HA	1:L:687:GLU:O	2.19	0.43
1:N:274:TYR:HA	1:N:383:ASN:ND2	2.33	0.43
1:N:290:HIS:HD2	1:N:366:PRO:HB3	1.83	0.43
1:N:308:PHE:HA	1:N:687:GLU:O	2.19	0.43
1:O:343:GLN:HG2	1:O:404:MET:HG2	1.98	0.43
1:O:664:THR:H	1:d:373:MET:CE	2.32	0.43
1:Q:487:ARG:NH2	1:Q:598:ASN:OD1	2.49	0.43
1:R:286:PHE:CD1	1:R:286:PHE:O	2.70	0.43
1:V:288:ARG:CZ	1:V:290:HIS:HE1	2.30	0.43
1:W:694:LYS:HE2	1:Y:400:PHE:CD1	2.54	0.43
1:d:274:TYR:HA	1:d:383:ASN:ND2	2.33	0.43
1:g:286:PHE:CD1	1:g:286:PHE:O	2.70	0.43
1:i:425:SER:O	1:i:731:ARG:HA	2.18	0.43
1:i:694:LYS:HE2	1:j:400:PHE:CD1	2.54	0.43
1:o:373:MET:CE	1:7:664:THR:H	2.31	0.43
1:p:664:THR:H	1:6:373:MET:CE	2.32	0.43
1:q:286:PHE:O	1:q:286:PHE:CD1	2.70	0.43
1:q:290:HIS:HD2	1:q:366:PRO:HB3	1.83	0.43
1:q:400:PHE:CD1	1:s:694:LYS:HE2	2.54	0.43
1:q:625:HIS:O	1:s:428:HIS:HE1	2.01	0.43
1:r:298:TRP:HE1	1:r:728:ILE:HG22	1.82	0.43
1:s:308:PHE:HA	1:s:687:GLU:O	2.19	0.43
1:t:275:PHE:HB3	1:t:383:ASN:HB3	1.99	0.43
1:u:308:PHE:HA	1:u:687:GLU:O	2.19	0.43
1:v:224:ASN:OD1	1:w:409:ASN:ND2	2.39	0.43
1:v:709:GLN:NE2	1:v:711:GLY:O	2.51	0.43
1:x:425:SER:O	1:x:731:ARG:HA	2.18	0.43
1:z:308:PHE:HA	1:z:687:GLU:O	2.19	0.43
1:z:694:LYS:HE2	1:1:400:PHE:CD1	2.54	0.43
1:z:709:GLN:NE2	1:z:711:GLY:O	2.50	0.43
1:1:285:ASP:HB3	1:1:363:CYS:SG	2.58	0.43
1:1:343:GLN:HG2	1:1:404:MET:HG2	1.99	0.43
1:1:450:THR:HG21	1:2:503:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:308:PHE:HA	1:4:687:GLU:O	2.19	0.43
1:5:285:ASP:HB3	1:5:363:CYS:SG	2.58	0.43
1:5:425:SER:O	1:5:731:ARG:HA	2.18	0.43
1:6:285:ASP:HB3	1:6:363:CYS:SG	2.58	0.43
1:6:428:HIS:HE1	1:7:625:HIS:O	2.01	0.43
1:A:308:PHE:HA	1:A:687:GLU:O	2.19	0.43
1:A:709:GLN:NE2	1:A:711:GLY:O	2.51	0.43
1:B:274:TYR:HA	1:B:383:ASN:ND2	2.33	0.43
1:B:400:PHE:CD1	1:L:694:LYS:HE2	2.54	0.43
1:B:664:THR:H	1:C:373:MET:CE	2.31	0.43
1:C:286:PHE:O	1:C:286:PHE:CD1	2.70	0.43
1:D:308:PHE:HA	1:D:687:GLU:O	2.18	0.43
1:H:285:ASP:HB3	1:H:363:CYS:SG	2.58	0.43
1:J:425:SER:O	1:J:731:ARG:HA	2.18	0.43
1:K:425:SER:O	1:K:731:ARG:HA	2.18	0.43
1:L:709:GLN:NE2	1:L:711:GLY:O	2.51	0.43
1:N:425:SER:O	1:N:731:ARG:HA	2.18	0.43
1:N:428:HIS:HE1	1:P:625:HIS:O	2.02	0.43
1:N:694:LYS:HE2	1:P:400:PHE:CD1	2.54	0.43
1:N:709:GLN:NE2	1:N:711:GLY:O	2.51	0.43
1:R:400:PHE:CD1	1:U:694:LYS:HE2	2.54	0.43
1:T:694:LYS:HE2	1:d:400:PHE:CD1	2.53	0.43
1:V:625:HIS:O	1:X:428:HIS:HE1	2.02	0.43
1:W:428:HIS:HE1	1:Y:625:HIS:O	2.01	0.43
1:c:400:PHE:CD1	1:p:694:LYS:HE2	2.54	0.43
1:e:425:SER:O	1:e:731:ARG:HA	2.18	0.43
1:g:487:ARG:NH2	1:g:598:ASN:OD1	2.49	0.43
1:j:298:TRP:HE1	1:j:728:ILE:HG22	1.82	0.43
1:k:298:TRP:HE1	1:k:728:ILE:HG22	1.82	0.43
1:k:308:PHE:HA	1:k:687:GLU:O	2.19	0.43
1:l:298:TRP:HE1	1:l:728:ILE:HG22	1.82	0.43
1:m:274:TYR:HA	1:m:383:ASN:ND2	2.33	0.43
1:m:425:SER:O	1:m:731:ARG:HA	2.18	0.43
1:n:274:TYR:HA	1:n:383:ASN:ND2	2.33	0.43
1:p:288:ARG:CZ	1:p:290:HIS:HE1	2.30	0.43
1:r:664:THR:H	1:x:373:MET:CE	2.31	0.43
1:t:285:ASP:HB3	1:t:363:CYS:SG	2.58	0.43
1:t:290:HIS:HD2	1:t:366:PRO:HB3	1.83	0.43
1:v:308:PHE:HA	1:v:687:GLU:O	2.19	0.43
1:v:703:THR:HG1	1:y:703:THR:HG1	1.58	0.43
1:w:298:TRP:HE1	1:w:728:ILE:HG22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:274:TYR:HA	1:3:383:ASN:ND2	2.33	0.43
1:3:285:ASP:HB3	1:3:363:CYS:SG	2.58	0.43
1:4:274:TYR:HA	1:4:383:ASN:ND2	2.33	0.43
1:4:425:SER:O	1:4:731:ARG:HA	2.18	0.43
1:6:694:LYS:HE2	1:7:400:PHE:CD1	2.54	0.43
1:8:308:PHE:HA	1:8:687:GLU:O	2.18	0.43
1:B:299:GLN:NE2	1:B:702:TYR:O	2.49	0.43
1:B:343:GLN:HG2	1:B:404:MET:HG2	1.99	0.43
1:D:428:HIS:HE1	1:N:625:HIS:O	2.01	0.43
1:E:701:GLN:N	1:P:703:THR:CG2	2.50	0.43
1:F:308:PHE:HA	1:F:687:GLU:O	2.18	0.43
1:G:694:LYS:HE2	1:I:400:PHE:CD1	2.54	0.43
1:H:308:PHE:HA	1:H:687:GLU:O	2.18	0.43
1:H:425:SER:O	1:H:731:ARG:HA	2.18	0.43
1:K:274:TYR:HA	1:K:383:ASN:ND2	2.33	0.43
1:K:400:PHE:CD1	1:8:694:LYS:HE2	2.53	0.43
1:K:709:GLN:NE2	1:K:711:GLY:O	2.51	0.43
1:M:256:HIS:HD2	1:M:654:PRO:HG3	1.80	0.43
1:M:274:TYR:HA	1:M:383:ASN:ND2	2.33	0.43
1:P:288:ARG:CZ	1:P:290:HIS:HE1	2.30	0.43
1:Q:274:TYR:HA	1:Q:383:ASN:ND2	2.33	0.43
1:R:290:HIS:HD2	1:R:366:PRO:HB3	1.83	0.43
1:R:409:ASN:ND2	1:V:224:ASN:OD1	2.39	0.43
1:R:625:HIS:O	1:U:428:HIS:HE1	2.01	0.43
1:S:274:TYR:HA	1:S:383:ASN:ND2	2.33	0.43
1:S:298:TRP:HE1	1:S:728:ILE:HG22	1.82	0.43
1:T:664:THR:H	1:i:373:MET:CE	2.32	0.43
1:W:256:HIS:HD2	1:W:654:PRO:HG3	1.80	0.43
1:Z:308:PHE:HA	1:Z:687:GLU:O	2.18	0.43
1:Z:503:PHE:CZ	1:3:450:THR:HG21	2.54	0.43
1:Z:694:LYS:HE2	1:4:400:PHE:CD1	2.53	0.43
1:a:274:TYR:HA	1:a:383:ASN:ND2	2.33	0.43
1:f:664:THR:H	1:z:373:MET:CE	2.31	0.43
1:g:398:GLU:OE2	1:g:651:LYS:NZ	2.47	0.43
1:i:308:PHE:HA	1:i:687:GLU:O	2.19	0.43
1:i:400:PHE:CD1	1:k:694:LYS:HE2	2.54	0.43
1:i:428:HIS:HE1	1:j:625:HIS:O	2.02	0.43
1:i:709:GLN:NE2	1:i:711:GLY:O	2.51	0.43
1:j:288:ARG:CZ	1:j:290:HIS:HE1	2.30	0.43
1:r:694:LYS:HE2	1:s:400:PHE:CD1	2.54	0.43
1:u:285:ASP:HB3	1:u:363:CYS:SG	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:487:ARG:NH2	1:u:598:ASN:OD1	2.49	0.43
1:w:274:TYR:HA	1:w:383:ASN:ND2	2.33	0.43
1:x:274:TYR:HA	1:x:383:ASN:ND2	2.33	0.43
1:1:274:TYR:HA	1:1:383:ASN:ND2	2.33	0.43
1:2:425:SER:O	1:2:731:ARG:HA	2.18	0.43
1:4:709:GLN:NE2	1:4:711:GLY:O	2.51	0.43
1:5:308:PHE:HA	1:5:687:GLU:O	2.18	0.43
1:B:428:HIS:HE1	1:J:625:HIS:O	2.01	0.43
1:D:285:ASP:HB3	1:D:363:CYS:SG	2.58	0.43
1:D:298:TRP:HE1	1:D:728:ILE:HG22	1.82	0.43
1:E:274:TYR:HA	1:E:383:ASN:ND2	2.33	0.43
1:E:298:TRP:HE1	1:E:728:ILE:HG22	1.82	0.43
1:F:528:THR:CG2	1:F:564:GLU:H	2.32	0.43
1:F:625:HIS:O	1:Q:428:HIS:HE1	2.02	0.43
1:G:275:PHE:HB3	1:G:383:ASN:HB3	1.99	0.43
1:G:290:HIS:HD2	1:G:366:PRO:HB3	1.83	0.43
1:I:285:ASP:HB3	1:I:363:CYS:SG	2.58	0.43
1:I:487:ARG:NH2	1:I:598:ASN:OD1	2.49	0.43
1:J:308:PHE:HA	1:J:687:GLU:O	2.19	0.43
1:L:373:MET:CE	1:b:664:THR:H	2.31	0.43
1:M:503:PHE:CZ	1:b:450:THR:HG21	2.54	0.43
1:O:450:THR:HG21	1:m:503:PHE:CZ	2.54	0.43
1:P:274:TYR:HA	1:P:383:ASN:ND2	2.33	0.43
1:P:298:TRP:HE1	1:P:728:ILE:HG22	1.82	0.43
1:S:694:LYS:HE2	1:U:400:PHE:CD1	2.54	0.43
1:T:425:SER:O	1:T:731:ARG:HA	2.18	0.43
1:U:373:MET:CE	1:e:664:THR:H	2.31	0.43
1:W:274:TYR:HA	1:W:383:ASN:ND2	2.33	0.43
1:X:286:PHE:O	1:X:286:PHE:CD1	2.70	0.43
1:Y:308:PHE:HA	1:Y:687:GLU:O	2.19	0.43
1:Z:274:TYR:HA	1:Z:383:ASN:ND2	2.33	0.43
1:a:285:ASP:HB3	1:a:363:CYS:SG	2.58	0.43
1:a:450:THR:HG21	1:8:503:PHE:CZ	2.54	0.43
1:c:425:SER:O	1:c:731:ARG:HA	2.18	0.43
1:d:430:GLN:O	1:d:569:PRO:HB3	2.19	0.43
1:f:450:THR:HG21	1:h:503:PHE:CZ	2.54	0.43
1:n:430:GLN:O	1:n:569:PRO:HB3	2.19	0.43
1:o:286:PHE:CD1	1:o:286:PHE:O	2.70	0.43
1:r:274:TYR:HA	1:r:383:ASN:ND2	2.33	0.43
1:t:503:PHE:CZ	1:v:450:THR:HG21	2.54	0.43
1:u:298:TRP:HE1	1:u:728:ILE:HG22	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:664:THR:H	1:1:373:MET:CE	2.31	0.43
1:x:275:PHE:HB3	1:x:383:ASN:HB3	1.99	0.43
1:x:487:ARG:NH2	1:x:598:ASN:OD1	2.49	0.43
1:y:290:HIS:HD2	1:y:366:PRO:HB3	1.83	0.43
1:z:430:GLN:O	1:z:569:PRO:HB3	2.19	0.43
1:1:299:GLN:NE2	1:1:702:TYR:O	2.49	0.43
1:2:308:PHE:HA	1:2:687:GLU:O	2.19	0.43
1:7:308:PHE:HA	1:7:687:GLU:O	2.19	0.43
1:C:503:PHE:CZ	1:M:450:THR:HG21	2.54	0.43
1:D:275:PHE:HB3	1:D:383:ASN:HB3	1.99	0.43
1:D:694:LYS:HE2	1:N:400:PHE:CD1	2.54	0.43
1:E:694:LYS:HE2	1:Q:400:PHE:CD1	2.53	0.43
1:E:703:THR:HG22	1:P:701:GLN:H	1.69	0.43
1:F:290:HIS:HD2	1:F:366:PRO:HB3	1.83	0.43
1:G:288:ARG:CZ	1:G:290:HIS:HE1	2.30	0.43
1:H:430:GLN:O	1:H:569:PRO:HB3	2.19	0.43
1:I:298:TRP:HE1	1:I:728:ILE:HG22	1.82	0.43
1:J:450:THR:HG21	1:L:503:PHE:CZ	2.54	0.43
1:K:430:GLN:O	1:K:569:PRO:HB3	2.19	0.43
1:L:430:GLN:O	1:L:569:PRO:HB3	2.19	0.43
1:Q:275:PHE:HB3	1:Q:383:ASN:HB3	2.00	0.43
1:R:664:THR:H	1:V:373:MET:CE	2.31	0.43
1:T:625:HIS:O	1:l:428:HIS:HE1	2.02	0.43
1:V:308:PHE:HA	1:V:687:GLU:O	2.18	0.43
1:V:425:SER:O	1:V:731:ARG:HA	2.18	0.43
1:b:373:MET:CE	1:o:664:THR:H	2.31	0.43
1:b:709:GLN:NE2	1:b:711:GLY:O	2.51	0.43
1:c:664:THR:H	1:s:373:MET:CE	2.31	0.43
1:f:625:HIS:O	1:g:428:HIS:HE1	2.02	0.43
1:h:256:HIS:HD2	1:h:654:PRO:HG3	1.80	0.43
1:j:274:TYR:HA	1:j:383:ASN:ND2	2.33	0.43
1:k:275:PHE:HB3	1:k:383:ASN:HB3	2.00	0.43
1:k:285:ASP:HB3	1:k:363:CYS:SG	2.58	0.43
1:o:701:GLN:H	1:6:703:THR:HG22	1.70	0.43
1:p:298:TRP:HE1	1:p:728:ILE:HG22	1.82	0.43
1:t:308:PHE:HA	1:t:687:GLU:O	2.18	0.43
1:t:400:PHE:CD1	1:v:694:LYS:HE2	2.54	0.43
1:u:275:PHE:HB3	1:u:383:ASN:HB3	2.00	0.43
1:y:308:PHE:HA	1:y:687:GLU:O	2.19	0.43
1:z:503:PHE:CZ	1:2:450:THR:HG21	2.54	0.43
1:1:428:HIS:HE1	1:2:625:HIS:O	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:487:ARG:NH2	1:2:598:ASN:OD1	2.49	0.43
1:3:400:PHE:CD1	1:4:694:LYS:HE2	2.54	0.43
1:4:430:GLN:O	1:4:569:PRO:HB3	2.19	0.43
1:5:400:PHE:CD1	1:7:694:LYS:HE2	2.54	0.43
1:6:274:TYR:HA	1:6:383:ASN:ND2	2.33	0.43
1:8:274:TYR:HA	1:8:383:ASN:ND2	2.33	0.43
1:A:528:THR:CG2	1:A:564:GLU:H	2.32	0.43
1:D:625:HIS:O	1:P:428:HIS:HE1	2.02	0.43
1:E:275:PHE:HB3	1:E:383:ASN:HB3	1.99	0.43
1:E:450:THR:HG21	1:Q:503:PHE:CZ	2.53	0.43
1:G:308:PHE:HA	1:G:687:GLU:O	2.19	0.43
1:G:699:GLU:HB2	1:G:701:GLN:HE21	1.84	0.43
1:H:400:PHE:CD1	1:Y:694:LYS:HE2	2.54	0.43
1:I:275:PHE:HB3	1:I:383:ASN:HB3	2.00	0.43
1:K:694:LYS:HE2	1:a:400:PHE:CD1	2.54	0.43
1:R:428:HIS:HE1	1:S:625:HIS:O	2.02	0.43
1:R:503:PHE:CZ	1:U:450:THR:HG21	2.54	0.43
1:X:503:PHE:CZ	1:e:450:THR:HG21	2.54	0.43
1:X:664:THR:H	1:f:373:MET:CE	2.31	0.43
1:Z:398:GLU:OE2	1:Z:651:LYS:NZ	2.47	0.43
1:a:275:PHE:HB3	1:a:383:ASN:HB3	2.00	0.43
1:a:528:THR:CG2	1:a:564:GLU:H	2.32	0.43
1:b:308:PHE:HA	1:b:687:GLU:O	2.19	0.43
1:c:694:LYS:HE2	1:o:400:PHE:CD1	2.54	0.43
1:f:528:THR:CG2	1:f:564:GLU:H	2.32	0.43
1:f:709:GLN:NE2	1:f:711:GLY:O	2.51	0.43
1:h:373:MET:CE	1:i:664:THR:H	2.31	0.43
1:h:430:GLN:O	1:h:569:PRO:HB3	2.19	0.43
1:i:625:HIS:O	1:k:428:HIS:HE1	2.01	0.43
1:j:701:GLN:H	1:w:703:THR:HG22	1.69	0.43
1:p:308:PHE:HA	1:p:687:GLU:O	2.19	0.43
1:q:428:HIS:HE1	1:r:625:HIS:O	2.01	0.43
1:t:288:ARG:CZ	1:t:290:HIS:HE1	2.30	0.43
1:t:701:GLN:N	1:5:703:THR:CG2	2.50	0.43
1:u:664:THR:H	1:5:373:MET:CE	2.32	0.43
1:v:528:THR:CG2	1:v:564:GLU:H	2.32	0.43
1:y:528:THR:CG2	1:y:564:GLU:H	2.32	0.43
1:z:428:HIS:HE1	1:1:625:HIS:O	2.01	0.43
1:1:308:PHE:HA	1:1:687:GLU:O	2.18	0.43
1:3:275:PHE:HB3	1:3:383:ASN:HB3	2.00	0.43
1:3:373:MET:CE	1:8:664:THR:H	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:528:THR:CG2	1:3:564:GLU:H	2.32	0.43
1:5:430:GLN:O	1:5:569:PRO:HB3	2.19	0.43
1:A:430:GLN:O	1:A:569:PRO:HB3	2.19	0.43
1:B:308:PHE:HA	1:B:687:GLU:O	2.19	0.43
1:B:430:GLN:O	1:B:569:PRO:HB3	2.19	0.43
1:C:400:PHE:CD1	1:M:694:LYS:HE2	2.53	0.43
1:C:625:HIS:O	1:M:428:HIS:HE1	2.01	0.43
1:C:664:THR:H	1:D:373:MET:CE	2.32	0.43
1:C:694:LYS:HE2	1:b:400:PHE:CD1	2.54	0.43
1:E:400:PHE:CD1	1:F:694:LYS:HE2	2.54	0.43
1:E:428:HIS:HE1	1:Q:625:HIS:O	2.01	0.43
1:F:275:PHE:HB3	1:F:383:ASN:HB3	2.00	0.43
1:F:699:GLU:HB2	1:F:701:GLN:HE21	1.84	0.43
1:J:428:HIS:HE1	1:L:625:HIS:O	2.01	0.43
1:J:487:ARG:NH2	1:J:598:ASN:OD1	2.49	0.43
1:J:694:LYS:HE2	1:L:400:PHE:CD1	2.54	0.43
1:M:373:MET:CE	1:N:664:THR:H	2.31	0.43
1:M:430:GLN:O	1:M:569:PRO:HB3	2.19	0.43
1:N:373:MET:CE	1:m:664:THR:H	2.32	0.43
1:R:530:LYS:HG2	1:R:531:ASP:N	2.22	0.43
1:V:298:TRP:HE1	1:V:728:ILE:HG22	1.82	0.43
1:W:308:PHE:HA	1:W:687:GLU:O	2.19	0.43
1:W:425:SER:O	1:W:731:ARG:HA	2.18	0.43
1:Z:664:THR:H	1:a:373:MET:CE	2.31	0.43
1:a:430:GLN:O	1:a:569:PRO:HB3	2.19	0.43
1:a:694:LYS:HE2	1:8:400:PHE:CD1	2.54	0.43
1:b:528:THR:CG2	1:b:564:GLU:H	2.32	0.43
1:c:298:TRP:HE1	1:c:728:ILE:HG22	1.82	0.43
1:c:308:PHE:HA	1:c:687:GLU:O	2.19	0.43
1:e:298:TRP:HE1	1:e:728:ILE:HG22	1.82	0.43
1:e:430:GLN:O	1:e:569:PRO:HB3	2.19	0.43
1:f:308:PHE:HA	1:f:687:GLU:O	2.19	0.43
1:g:709:GLN:NE2	1:g:711:GLY:O	2.51	0.43
1:h:274:TYR:HA	1:h:383:ASN:ND2	2.33	0.43
1:n:308:PHE:HA	1:n:687:GLU:O	2.19	0.43
1:p:425:SER:O	1:p:731:ARG:HA	2.18	0.43
1:p:699:GLU:HB2	1:p:701:GLN:HE21	1.84	0.43
1:r:428:HIS:HE1	1:s:625:HIS:O	2.01	0.43
1:r:430:GLN:O	1:r:569:PRO:HB3	2.19	0.43
1:t:699:GLU:HB2	1:t:701:GLN:HE21	1.84	0.43
1:v:430:GLN:O	1:v:569:PRO:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:256:HIS:HD2	1:w:654:PRO:HG3	1.80	0.43
1:w:308:PHE:HA	1:w:687:GLU:O	2.19	0.43
1:w:400:PHE:CD1	1:y:694:LYS:HE2	2.54	0.43
1:w:694:LYS:HE2	1:x:400:PHE:CD1	2.53	0.43
1:x:466:TYR:CD1	1:y:553:LYS:HG2	2.54	0.43
1:y:699:GLU:HB2	1:y:701:GLN:HE21	1.84	0.43
1:1:430:GLN:O	1:1:569:PRO:HB3	2.19	0.43
1:3:430:GLN:O	1:3:569:PRO:HB3	2.19	0.43
1:4:398:GLU:OE2	1:4:651:LYS:NZ	2.47	0.43
1:6:308:PHE:HA	1:6:687:GLU:O	2.19	0.43
1:6:425:SER:O	1:6:731:ARG:HA	2.18	0.43
1:7:398:GLU:OE2	1:7:651:LYS:NZ	2.48	0.43
1:D:487:ARG:NH2	1:D:598:ASN:OD1	2.49	0.43
1:E:308:PHE:HA	1:E:687:GLU:O	2.19	0.43
1:E:625:HIS:O	1:F:428:HIS:HE1	2.01	0.43
1:F:373:MET:CE	1:G:664:THR:H	2.31	0.43
1:I:430:GLN:O	1:I:569:PRO:HB3	2.19	0.43
1:J:275:PHE:HB3	1:J:383:ASN:HB3	2.00	0.43
1:O:400:PHE:CD1	1:n:694:LYS:HE2	2.54	0.43
1:Q:373:MET:CE	1:S:664:THR:H	2.32	0.43
1:R:528:THR:CG2	1:R:564:GLU:H	2.32	0.43
1:S:428:HIS:HE1	1:U:625:HIS:O	2.01	0.43
1:S:430:GLN:O	1:S:569:PRO:HB3	2.19	0.43
1:T:479:ASN:ND2	1:d:357:GLY:O	2.52	0.43
1:V:479:ASN:ND2	1:e:357:GLY:O	2.52	0.43
1:V:699:GLU:HB2	1:V:701:GLN:HE21	1.84	0.43
1:X:528:THR:CG2	1:X:564:GLU:H	2.32	0.43
1:Y:275:PHE:HB3	1:Y:383:ASN:HB3	2.00	0.43
1:Z:400:PHE:CD1	1:3:694:LYS:HE2	2.54	0.43
1:c:430:GLN:O	1:c:569:PRO:HB3	2.19	0.43
1:c:450:THR:HG21	1:o:503:PHE:CZ	2.54	0.43
1:d:308:PHE:HA	1:d:687:GLU:O	2.19	0.43
1:e:308:PHE:HA	1:e:687:GLU:O	2.19	0.43
1:g:699:GLU:HB2	1:g:701:GLN:HE21	1.84	0.43
1:g:703:THR:CG2	1:z:701:GLN:N	2.50	0.43
1:i:430:GLN:O	1:i:569:PRO:HB3	2.19	0.43
1:j:428:HIS:HE1	1:k:625:HIS:O	2.02	0.43
1:j:703:THR:CG2	1:w:701:GLN:N	2.50	0.43
1:k:487:ARG:NH2	1:k:598:ASN:OD1	2.49	0.43
1:o:528:THR:CG2	1:o:564:GLU:H	2.32	0.43
1:q:503:PHE:CZ	1:s:450:THR:HG21	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:430:GLN:O	1:t:569:PRO:HB3	2.19	0.43
1:t:664:THR:H	1:y:373:MET:CE	2.31	0.43
1:u:428:HIS:HE1	1:v:625:HIS:O	2.02	0.43
1:w:275:PHE:HB3	1:w:383:ASN:HB3	2.00	0.43
1:w:428:HIS:HE1	1:x:625:HIS:O	2.01	0.43
1:w:625:HIS:O	1:y:428:HIS:HE1	2.01	0.43
1:y:275:PHE:HB3	1:y:383:ASN:HB3	2.00	0.43
1:z:400:PHE:CD1	1:2:694:LYS:HE2	2.54	0.43
1:z:625:HIS:O	1:2:428:HIS:HE1	2.01	0.43
1:z:664:THR:H	1:4:373:MET:CE	2.31	0.43
1:2:275:PHE:HB3	1:2:383:ASN:HB3	2.00	0.43
1:2:373:MET:CE	1:3:664:THR:H	2.31	0.43
1:5:664:THR:H	1:8:373:MET:CE	2.31	0.43
1:6:699:GLU:HB2	1:6:701:GLN:HE21	1.84	0.43
1:A:487:ARG:HD3	1:I:582:SER:O	2.19	0.42
1:B:487:ARG:NH2	1:B:598:ASN:OD1	2.49	0.42
1:B:625:HIS:O	1:L:428:HIS:HE1	2.01	0.42
1:C:479:ASN:ND2	1:b:357:GLY:O	2.52	0.42
1:C:699:GLU:HB2	1:C:701:GLN:HE21	1.84	0.42
1:C:709:GLN:NE2	1:C:711:GLY:O	2.51	0.42
1:D:400:PHE:CD1	1:P:694:LYS:HE2	2.53	0.42
1:D:503:PHE:CZ	1:P:450:THR:HG21	2.54	0.42
1:F:430:GLN:O	1:F:569:PRO:HB3	2.19	0.42
1:G:430:GLN:O	1:G:569:PRO:HB3	2.19	0.42
1:H:409:ASN:ND2	1:Z:224:ASN:OD1	2.39	0.42
1:J:373:MET:CE	1:a:664:THR:H	2.31	0.42
1:K:373:MET:CE	1:L:664:THR:H	2.32	0.42
1:K:528:THR:CG2	1:K:564:GLU:H	2.32	0.42
1:M:699:GLU:HB2	1:M:701:GLN:HE21	1.84	0.42
1:N:430:GLN:O	1:N:569:PRO:HB3	2.19	0.42
1:N:450:THR:HG21	1:P:503:PHE:CZ	2.54	0.42
1:R:341:THR:HG22	1:R:406:ARG:HG3	2.02	0.42
1:R:450:THR:HG21	1:S:503:PHE:CZ	2.54	0.42
1:T:528:THR:CG2	1:T:564:GLU:H	2.32	0.42
1:U:430:GLN:O	1:U:569:PRO:HB3	2.19	0.42
1:W:699:GLU:HB2	1:W:701:GLN:HE21	1.84	0.42
1:X:400:PHE:CD1	1:e:694:LYS:HE2	2.54	0.42
1:c:503:PHE:CZ	1:p:450:THR:HG21	2.54	0.42
1:c:699:GLU:HB2	1:c:701:GLN:HE21	1.84	0.42
1:e:699:GLU:HB2	1:e:701:GLN:HE21	1.84	0.42
1:i:357:GLY:O	1:k:479:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:450:THR:HG21	1:j:503:PHE:CZ	2.54	0.42
1:j:308:PHE:HA	1:j:687:GLU:O	2.19	0.42
1:p:528:THR:CG2	1:p:564:GLU:H	2.32	0.42
1:q:341:THR:HG22	1:q:406:ARG:HG3	2.02	0.42
1:q:450:THR:HG21	1:r:503:PHE:CZ	2.54	0.42
1:q:528:THR:CG2	1:q:564:GLU:H	2.32	0.42
1:s:430:GLN:O	1:s:569:PRO:HB3	2.19	0.42
1:t:450:THR:HG21	1:u:503:PHE:CZ	2.53	0.42
1:u:373:MET:CE	1:2:664:THR:H	2.32	0.42
1:u:430:GLN:O	1:u:569:PRO:HB3	2.19	0.42
1:u:450:THR:HG21	1:v:503:PHE:CZ	2.54	0.42
1:5:694:LYS:HE2	1:6:400:PHE:CD1	2.54	0.42
1:6:430:GLN:O	1:6:569:PRO:HB3	2.19	0.42
1:6:450:THR:HG21	1:7:503:PHE:CZ	2.54	0.42
1:7:275:PHE:HB3	1:7:383:ASN:HB3	2.00	0.42
1:8:699:GLU:HB2	1:8:701:GLN:HE21	1.84	0.42
1:B:694:LYS:HE2	1:J:400:PHE:CD1	2.53	0.42
1:D:450:THR:HG21	1:N:503:PHE:CZ	2.53	0.42
1:F:400:PHE:CD1	1:Q:694:LYS:HE2	2.54	0.42
1:F:503:PHE:CZ	1:Q:450:THR:HG21	2.54	0.42
1:H:528:THR:CG2	1:H:564:GLU:H	2.32	0.42
1:H:664:THR:H	1:Z:373:MET:CE	2.31	0.42
1:H:694:LYS:HE2	1:W:400:PHE:CD1	2.54	0.42
1:K:398:GLU:OE2	1:K:651:LYS:NZ	2.47	0.42
1:K:450:THR:HG21	1:a:503:PHE:CZ	2.54	0.42
1:M:341:THR:HG22	1:M:406:ARG:HG3	2.02	0.42
1:M:664:THR:H	1:c:373:MET:CE	2.31	0.42
1:P:373:MET:CE	1:Q:664:THR:H	2.32	0.42
1:V:430:GLN:O	1:V:569:PRO:HB3	2.19	0.42
1:W:430:GLN:O	1:W:569:PRO:HB3	2.19	0.42
1:W:450:THR:HG21	1:Y:503:PHE:CZ	2.54	0.42
1:W:528:THR:CG2	1:W:564:GLU:H	2.32	0.42
1:X:699:GLU:HB2	1:X:701:GLN:HE21	1.84	0.42
1:Z:357:GLY:O	1:3:479:ASN:ND2	2.52	0.42
1:Z:699:GLU:HB2	1:Z:701:GLN:HE21	1.84	0.42
1:b:430:GLN:O	1:b:569:PRO:HB3	2.19	0.42
1:f:430:GLN:O	1:f:569:PRO:HB3	2.19	0.42
1:i:528:THR:CG2	1:i:564:GLU:H	2.32	0.42
1:m:308:PHE:HA	1:m:687:GLU:O	2.18	0.42
1:m:528:THR:CG2	1:m:564:GLU:H	2.32	0.42
1:n:341:THR:HG22	1:n:406:ARG:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:450:THR:HG21	1:p:503:PHE:CZ	2.54	0.42
1:o:699:GLU:HB2	1:o:701:GLN:HE21	1.84	0.42
1:p:290:HIS:HD2	1:p:366:PRO:HB3	1.83	0.42
1:p:373:MET:CE	1:q:664:THR:H	2.31	0.42
1:v:373:MET:CE	1:w:664:THR:H	2.31	0.42
1:v:701:GLN:H	1:y:703:THR:HG22	1.70	0.42
1:y:430:GLN:O	1:y:569:PRO:HB3	2.19	0.42
1:1:487:ARG:NH2	1:1:598:ASN:OD1	2.49	0.42
1:1:694:LYS:HE2	1:2:400:PHE:CD1	2.53	0.42
1:2:256:HIS:HD2	1:2:654:PRO:HG3	1.80	0.42
1:3:503:PHE:CZ	1:4:450:THR:HG21	2.54	0.42
1:4:528:THR:CG2	1:4:564:GLU:H	2.32	0.42
1:6:528:THR:CG2	1:6:564:GLU:H	2.32	0.42
1:8:398:GLU:OE2	1:8:651:LYS:NZ	2.48	0.42
1:D:409:ASN:ND2	1:E:224:ASN:OD1	2.39	0.42
1:E:256:HIS:HD2	1:E:654:PRO:HG3	1.80	0.42
1:E:430:GLN:O	1:E:569:PRO:HB3	2.19	0.42
1:G:528:THR:CG2	1:G:564:GLU:H	2.32	0.42
1:K:466:TYR:CD1	1:a:553:LYS:HG2	2.55	0.42
1:N:487:ARG:NH2	1:N:598:ASN:OD1	2.49	0.42
1:N:528:THR:CG2	1:N:564:GLU:H	2.32	0.42
1:O:373:MET:CE	1:P:664:THR:H	2.31	0.42
1:P:308:PHE:HA	1:P:687:GLU:O	2.19	0.42
1:Q:430:GLN:O	1:Q:569:PRO:HB3	2.19	0.42
1:T:503:PHE:CZ	1:l:450:THR:HG21	2.54	0.42
1:V:528:THR:CG2	1:V:564:GLU:H	2.32	0.42
1:V:553:LYS:HG2	1:X:466:TYR:CD1	2.55	0.42
1:X:308:PHE:HA	1:X:687:GLU:O	2.19	0.42
1:b:341:THR:HG22	1:b:406:ARG:HG3	2.02	0.42
1:b:699:GLU:HB2	1:b:701:GLN:HE21	1.84	0.42
1:d:341:THR:HG22	1:d:406:ARG:HG3	2.02	0.42
1:e:373:MET:CE	1:h:664:THR:H	2.31	0.42
1:f:341:THR:HG22	1:f:406:ARG:HG3	2.02	0.42
1:f:694:LYS:HE2	1:h:400:PHE:CD1	2.54	0.42
1:h:341:THR:HG22	1:h:406:ARG:HG3	2.02	0.42
1:h:699:GLU:HB2	1:h:701:GLN:HE21	1.84	0.42
1:j:699:GLU:HB2	1:j:701:GLN:HE21	1.84	0.42
1:q:703:THR:HG22	1:x:701:GLN:H	1.69	0.42
1:t:528:THR:CG2	1:t:564:GLU:H	2.32	0.42
1:w:450:THR:HG21	1:x:503:PHE:CZ	2.54	0.42
1:2:528:THR:OG1	1:2:563:ASN:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:528:THR:CG2	1:5:564:GLU:H	2.32	0.42
1:A:479:ASN:ND2	1:G:357:GLY:O	2.52	0.42
1:A:528:THR:OG1	1:A:563:ASN:HB2	2.20	0.42
1:F:553:LYS:HG2	1:Q:466:TYR:CD1	2.55	0.42
1:H:466:TYR:CD1	1:W:553:LYS:HG2	2.55	0.42
1:I:528:THR:CG2	1:I:564:GLU:H	2.32	0.42
1:J:256:HIS:HD2	1:J:654:PRO:HG3	1.80	0.42
1:J:528:THR:OG1	1:J:563:ASN:HB2	2.20	0.42
1:M:400:PHE:CD1	1:b:694:LYS:HE2	2.54	0.42
1:Q:341:THR:HG22	1:Q:406:ARG:HG3	2.02	0.42
1:Q:701:GLN:H	1:R:703:THR:HG22	1.69	0.42
1:R:699:GLU:HB2	1:R:701:GLN:HE21	1.84	0.42
1:T:341:THR:HG22	1:T:406:ARG:HG3	2.02	0.42
1:T:430:GLN:O	1:T:569:PRO:HB3	2.19	0.42
1:V:341:THR:HG22	1:V:406:ARG:HG3	2.02	0.42
1:V:428:HIS:HE1	1:e:625:HIS:O	2.02	0.42
1:V:450:THR:HG21	1:e:503:PHE:CZ	2.54	0.42
1:X:430:GLN:O	1:X:569:PRO:HB3	2.19	0.42
1:Y:256:HIS:HD2	1:Y:654:PRO:HG3	1.80	0.42
1:Z:528:THR:CG2	1:Z:564:GLU:H	2.32	0.42
1:a:528:THR:OG1	1:a:563:ASN:HB2	2.20	0.42
1:b:487:ARG:NH2	1:b:598:ASN:OD1	2.49	0.42
1:c:528:THR:CG2	1:c:564:GLU:H	2.32	0.42
1:d:694:LYS:HE2	1:l:400:PHE:CD1	2.54	0.42
1:f:428:HIS:HE1	1:h:625:HIS:O	2.01	0.42
1:f:699:GLU:HB2	1:f:701:GLN:HE21	1.84	0.42
1:j:430:GLN:O	1:j:569:PRO:HB3	2.19	0.42
1:j:694:LYS:HE2	1:k:400:PHE:CD1	2.54	0.42
1:l:528:THR:OG1	1:l:563:ASN:HB2	2.20	0.42
1:m:430:GLN:O	1:m:569:PRO:HB3	2.19	0.42
1:m:694:LYS:HE2	1:n:400:PHE:CD1	2.54	0.42
1:o:430:GLN:O	1:o:569:PRO:HB3	2.19	0.42
1:p:341:THR:HG22	1:p:406:ARG:HG3	2.02	0.42
1:p:430:GLN:O	1:p:569:PRO:HB3	2.19	0.42
1:q:530:LYS:HG2	1:q:531:ASP:N	2.22	0.42
1:s:699:GLU:HB2	1:s:701:GLN:HE21	1.84	0.42
1:t:528:THR:OG1	1:t:563:ASN:HB2	2.20	0.42
1:u:528:THR:CG2	1:u:564:GLU:H	2.32	0.42
1:v:528:THR:OG1	1:v:563:ASN:HB2	2.20	0.42
1:w:430:GLN:O	1:w:569:PRO:HB3	2.19	0.42
1:x:528:THR:CG2	1:x:564:GLU:H	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:528:THR:OG1	1:3:563:ASN:HB2	2.20	0.42
1:3:553:LYS:HG2	1:4:466:TYR:CD1	2.55	0.42
1:5:409:ASN:ND2	1:8:224:ASN:OD1	2.39	0.42
1:5:466:TYR:CD1	1:6:553:LYS:HG2	2.55	0.42
1:7:341:THR:HG22	1:7:406:ARG:HG3	2.02	0.42
1:8:528:THR:CG2	1:8:564:GLU:H	2.32	0.42
1:B:479:ASN:ND2	1:J:357:GLY:O	2.53	0.42
1:C:341:THR:HG22	1:C:406:ARG:HG3	2.01	0.42
1:D:699:GLU:HB2	1:D:701:GLN:HE21	1.84	0.42
1:G:528:THR:OG1	1:G:563:ASN:HB2	2.20	0.42
1:H:373:MET:CE	1:I:664:THR:H	2.32	0.42
1:L:341:THR:HG22	1:L:406:ARG:HG3	2.01	0.42
1:M:625:HIS:O	1:b:428:HIS:HE1	2.01	0.42
1:O:430:GLN:O	1:O:569:PRO:HB3	2.19	0.42
1:O:528:THR:OG1	1:O:563:ASN:HB2	2.20	0.42
1:P:430:GLN:O	1:P:569:PRO:HB3	2.19	0.42
1:P:699:GLU:HB2	1:P:701:GLN:HE21	1.84	0.42
1:Q:528:THR:CG2	1:Q:564:GLU:H	2.32	0.42
1:S:373:MET:CE	1:d:664:THR:H	2.31	0.42
1:S:450:THR:HG21	1:U:503:PHE:CZ	2.54	0.42
1:T:308:PHE:HA	1:T:687:GLU:O	2.19	0.42
1:U:341:THR:HG22	1:U:406:ARG:HG3	2.01	0.42
1:U:699:GLU:HB2	1:U:701:GLN:HE21	1.84	0.42
1:V:503:PHE:CZ	1:X:450:THR:HG21	2.54	0.42
1:W:275:PHE:HB3	1:W:383:ASN:HB3	2.00	0.42
1:X:425:SER:O	1:X:731:ARG:HA	2.18	0.42
1:Y:703:THR:HG22	1:Z:701:GLN:H	1.70	0.42
1:a:341:THR:HG22	1:a:406:ARG:HG3	2.02	0.42
1:d:450:THR:HG21	1:l:503:PHE:CZ	2.54	0.42
1:e:290:HIS:HD2	1:e:366:PRO:HB3	1.83	0.42
1:e:528:THR:CG2	1:e:564:GLU:H	2.32	0.42
1:g:341:THR:HG22	1:g:406:ARG:HG3	2.02	0.42
1:g:503:PHE:CZ	1:h:450:THR:HG21	2.54	0.42
1:i:487:ARG:NH2	1:i:598:ASN:OD1	2.49	0.42
1:j:450:THR:HG21	1:k:503:PHE:CZ	2.54	0.42
1:j:664:THR:H	1:l:373:MET:CE	2.31	0.42
1:k:699:GLU:HB2	1:k:701:GLN:HE21	1.84	0.42
1:m:341:THR:HG22	1:m:406:ARG:HG3	2.02	0.42
1:n:664:THR:H	1:r:373:MET:CE	2.31	0.42
1:o:308:PHE:HA	1:o:687:GLU:O	2.18	0.42
1:p:224:ASN:OD1	1:q:409:ASN:ND2	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:487:ARG:NH2	1:p:598:ASN:OD1	2.49	0.42
1:q:699:GLU:HB2	1:q:701:GLN:HE21	1.84	0.42
1:r:256:HIS:HD2	1:r:654:PRO:HG3	1.80	0.42
1:r:450:THR:HG21	1:s:503:PHE:CZ	2.54	0.42
1:r:699:GLU:HB2	1:r:701:GLN:HE21	1.84	0.42
1:t:625:HIS:O	1:v:428:HIS:HE1	2.01	0.42
1:u:466:TYR:CD1	1:v:553:LYS:HG2	2.55	0.42
1:u:694:LYS:HE2	1:v:400:PHE:CD1	2.54	0.42
1:v:290:HIS:HD2	1:v:366:PRO:HB3	1.83	0.42
1:x:341:THR:HG22	1:x:406:ARG:HG3	2.02	0.42
1:x:430:GLN:O	1:x:569:PRO:HB3	2.19	0.42
1:2:699:GLU:HB2	1:2:701:GLN:HE21	1.84	0.42
1:3:341:THR:HG22	1:3:406:ARG:HG3	2.02	0.42
1:5:503:PHE:CZ	1:7:450:THR:HG21	2.54	0.42
1:6:275:PHE:HB3	1:6:383:ASN:HB3	2.00	0.42
1:7:699:GLU:HB2	1:7:701:GLN:HE21	1.84	0.42
1:A:450:THR:HG21	1:G:503:PHE:CZ	2.55	0.42
1:A:466:TYR:CD1	1:G:553:LYS:HG2	2.54	0.42
1:B:528:THR:CG2	1:B:564:GLU:H	2.32	0.42
1:D:479:ASN:ND2	1:N:357:GLY:O	2.53	0.42
1:E:341:THR:HG22	1:E:406:ARG:HG3	2.02	0.42
1:H:503:PHE:CZ	1:Y:450:THR:HG21	2.54	0.42
1:I:528:THR:OG1	1:I:563:ASN:HB2	2.20	0.42
1:K:428:HIS:HE1	1:a:625:HIS:O	2.01	0.42
1:K:664:THR:H	1:7:373:MET:CE	2.32	0.42
1:M:290:HIS:HD2	1:M:366:PRO:HB3	1.83	0.42
1:O:503:PHE:CZ	1:n:450:THR:HG21	2.54	0.42
1:Q:290:HIS:HD2	1:Q:366:PRO:HB3	1.83	0.42
1:Q:308:PHE:HA	1:Q:687:GLU:O	2.19	0.42
1:Q:528:THR:OG1	1:Q:563:ASN:HB2	2.20	0.42
1:S:699:GLU:HB2	1:S:701:GLN:HE21	1.84	0.42
1:T:553:LYS:HG2	1:l:466:TYR:CD1	2.54	0.42
1:V:272:ASN:ND2	1:X:474:ALA:H	2.18	0.42
1:V:290:HIS:HD2	1:V:366:PRO:HB3	1.83	0.42
1:V:466:TYR:CD1	1:e:553:LYS:HG2	2.54	0.42
1:V:487:ARG:NH2	1:V:598:ASN:OD1	2.49	0.42
1:V:528:THR:OG1	1:V:563:ASN:HB2	2.20	0.42
1:Y:341:THR:HG22	1:Y:406:ARG:HG3	2.02	0.42
1:Y:699:GLU:HB2	1:Y:701:GLN:HE21	1.84	0.42
1:a:699:GLU:HB2	1:a:701:GLN:HE21	1.84	0.42
1:c:625:HIS:O	1:p:428:HIS:HE1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:487:ARG:NH2	1:f:598:ASN:OD1	2.49	0.42
1:g:553:LYS:HG2	1:h:466:TYR:CD1	2.54	0.42
1:i:503:PHE:CZ	1:k:450:THR:HG21	2.54	0.42
1:l:430:GLN:O	1:l:569:PRO:HB3	2.19	0.42
1:o:425:SER:O	1:o:731:ARG:HA	2.18	0.42
1:p:528:THR:OG1	1:p:563:ASN:HB2	2.20	0.42
1:r:528:THR:CG2	1:r:564:GLU:H	2.32	0.42
1:s:341:THR:HG22	1:s:406:ARG:HG3	2.01	0.42
1:u:528:THR:OG1	1:u:563:ASN:HB2	2.20	0.42
1:x:528:THR:OG1	1:x:563:ASN:HB2	2.20	0.42
1:x:694:LYS:HE2	1:y:400:PHE:CD1	2.54	0.42
1:z:699:GLU:HB2	1:z:701:GLN:HE21	1.84	0.42
1:1:466:TYR:CD1	1:2:553:LYS:HG2	2.55	0.42
1:1:528:THR:CG2	1:1:564:GLU:H	2.32	0.42
1:3:487:ARG:NH2	1:3:598:ASN:OD1	2.49	0.42
1:3:625:HIS:O	1:4:428:HIS:HE1	2.01	0.42
1:A:664:THR:H	1:B:373:MET:CE	2.32	0.42
1:B:466:TYR:CD1	1:J:553:LYS:HG2	2.55	0.42
1:C:450:THR:HG21	1:b:503:PHE:CZ	2.54	0.42
1:C:528:THR:OG1	1:C:563:ASN:HB2	2.20	0.42
1:E:503:PHE:CZ	1:F:450:THR:HG21	2.54	0.42
1:E:528:THR:CG2	1:E:564:GLU:H	2.32	0.42
1:F:691:GLU:OE2	1:F:693:SER:HB3	2.20	0.42
1:H:450:THR:HG21	1:W:503:PHE:CZ	2.54	0.42
1:K:503:PHE:CZ	1:8:450:THR:HG21	2.54	0.42
1:L:699:GLU:HB2	1:L:701:GLN:HE21	1.84	0.42
1:N:479:ASN:ND2	1:P:357:GLY:O	2.52	0.42
1:R:528:THR:OG1	1:R:563:ASN:HB2	2.20	0.42
1:S:528:THR:CG2	1:S:564:GLU:H	2.32	0.42
1:T:691:GLU:OE2	1:T:693:SER:HB3	2.20	0.42
1:Y:373:MET:CE	1:4:664:THR:H	2.32	0.42
1:b:528:THR:OG1	1:b:563:ASN:HB2	2.20	0.42
1:c:290:HIS:HD2	1:c:366:PRO:HB3	1.83	0.42
1:d:691:GLU:OE2	1:d:693:SER:HB3	2.20	0.42
1:f:528:THR:OG1	1:f:563:ASN:HB2	2.20	0.42
1:g:528:THR:OG1	1:g:563:ASN:HB2	2.20	0.42
1:k:409:ASN:ND2	1:w:224:ASN:OD1	2.39	0.42
1:m:691:GLU:OE2	1:m:693:SER:HB3	2.20	0.42
1:q:528:THR:OG1	1:q:563:ASN:HB2	2.20	0.42
1:r:466:TYR:CD1	1:s:553:LYS:HG2	2.55	0.42
1:v:341:THR:HG22	1:v:406:ARG:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:341:THR:HG22	1:w:406:ARG:HG3	2.02	0.42
1:w:503:PHE:CZ	1:y:450:THR:HG21	2.54	0.42
1:x:290:HIS:HD2	1:x:366:PRO:HB3	1.83	0.42
1:x:450:THR:HG21	1:y:503:PHE:CZ	2.55	0.42
1:z:341:THR:HG22	1:z:406:ARG:HG3	2.02	0.42
1:z:450:THR:HG21	1:1:503:PHE:CZ	2.54	0.42
1:3:699:GLU:HB2	1:3:701:GLN:HE21	1.84	0.42
1:4:341:THR:HG22	1:4:406:ARG:HG3	2.02	0.42
1:5:428:HIS:HE1	1:6:625:HIS:O	2.02	0.42
1:7:256:HIS:HD2	1:7:654:PRO:HG3	1.80	0.42
1:7:430:GLN:O	1:7:569:PRO:HB3	2.19	0.42
1:7:703:THR:HG22	1:8:701:GLN:H	1.70	0.42
1:A:290:HIS:HD2	1:A:366:PRO:HB3	1.83	0.42
1:A:341:THR:HG22	1:A:406:ARG:HG3	2.02	0.42
1:B:503:PHE:CZ	1:L:450:THR:HG21	2.54	0.42
1:B:699:GLU:HB2	1:B:701:GLN:HE21	1.84	0.42
1:D:430:GLN:O	1:D:569:PRO:HB3	2.19	0.42
1:G:428:HIS:HE1	1:I:625:HIS:O	2.02	0.42
1:G:450:THR:HG21	1:I:503:PHE:CZ	2.54	0.42
1:G:466:TYR:CD1	1:I:553:LYS:HG2	2.54	0.42
1:J:479:ASN:ND2	1:L:357:GLY:O	2.52	0.42
1:J:699:GLU:HB2	1:J:701:GLN:HE21	1.84	0.42
1:K:341:THR:HG22	1:K:406:ARG:HG3	2.02	0.42
1:Q:691:GLU:OE2	1:Q:693:SER:HB3	2.20	0.42
1:R:691:GLU:OE2	1:R:693:SER:HB3	2.20	0.42
1:T:466:TYR:CD1	1:d:553:LYS:HG2	2.54	0.42
1:U:528:THR:CG2	1:U:564:GLU:H	2.32	0.42
1:V:531:ASP:HA	1:V:568:ARG:NH1	2.35	0.42
1:X:357:GLY:O	1:e:479:ASN:ND2	2.52	0.42
1:X:553:LYS:HG2	1:e:466:TYR:CD1	2.55	0.42
1:Z:341:THR:HG22	1:Z:406:ARG:HG3	2.02	0.42
1:Z:450:THR:HG21	1:4:503:PHE:CZ	2.54	0.42
1:b:224:ASN:OD1	1:o:409:ASN:ND2	2.39	0.42
1:c:466:TYR:CD1	1:o:553:LYS:HG2	2.55	0.42
1:c:479:ASN:ND2	1:o:357:GLY:O	2.52	0.42
1:g:357:GLY:O	1:h:479:ASN:ND2	2.52	0.42
1:h:290:HIS:HD2	1:h:366:PRO:HB3	1.83	0.42
1:j:373:MET:CE	1:x:664:THR:H	2.32	0.42
1:l:699:GLU:HB2	1:l:701:GLN:HE21	1.84	0.42
1:m:479:ASN:ND2	1:n:357:GLY:O	2.52	0.42
1:n:691:GLU:OE2	1:n:693:SER:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:466:TYR:CD1	1:p:553:LYS:HG2	2.55	0.42
1:p:531:ASP:HA	1:p:568:ARG:NH1	2.35	0.42
1:q:691:GLU:OE2	1:q:693:SER:HB3	2.20	0.42
1:r:341:THR:HG22	1:r:406:ARG:HG3	2.02	0.42
1:t:479:ASN:ND2	1:u:357:GLY:O	2.52	0.42
1:u:691:GLU:OE2	1:u:693:SER:HB3	2.20	0.42
1:u:699:GLU:HB2	1:u:701:GLN:HE21	1.84	0.42
1:w:528:THR:CG2	1:w:564:GLU:H	2.32	0.42
1:w:699:GLU:HB2	1:w:701:GLN:HE21	1.84	0.42
1:x:691:GLU:OE2	1:x:693:SER:HB3	2.20	0.42
1:2:430:GLN:O	1:2:569:PRO:HB3	2.19	0.42
1:3:691:GLU:OE2	1:3:693:SER:HB3	2.20	0.42
1:5:450:THR:HG21	1:6:503:PHE:CZ	2.54	0.42
1:8:341:THR:HG22	1:8:406:ARG:HG3	2.02	0.42
1:B:409:ASN:ND2	1:C:224:ASN:OD1	2.39	0.42
1:E:553:LYS:HG2	1:F:466:TYR:CD1	2.55	0.42
1:H:428:HIS:HE1	1:W:625:HIS:O	2.02	0.42
1:H:474:ALA:H	1:W:272:ASN:ND2	2.18	0.42
1:H:625:HIS:O	1:Y:428:HIS:HE1	2.02	0.42
1:I:224:ASN:OD1	1:J:409:ASN:ND2	2.38	0.42
1:I:691:GLU:OE2	1:I:693:SER:HB3	2.20	0.42
1:I:699:GLU:HB2	1:I:701:GLN:HE21	1.84	0.42
1:J:531:ASP:HA	1:J:568:ARG:NH1	2.35	0.42
1:O:699:GLU:HB2	1:O:701:GLN:HE21	1.84	0.42
1:S:256:HIS:HD2	1:S:654:PRO:HG3	1.80	0.42
1:S:341:THR:HG22	1:S:406:ARG:HG3	2.02	0.42
1:S:466:TYR:CD1	1:U:553:LYS:HG2	2.55	0.42
1:S:532:ASP:OD1	1:U:384:ASN:ND2	2.42	0.42
1:U:528:THR:OG1	1:U:563:ASN:HB2	2.20	0.42
1:Y:430:GLN:O	1:Y:569:PRO:HB3	2.19	0.42
1:a:691:GLU:OE2	1:a:693:SER:HB3	2.20	0.42
1:c:531:ASP:HA	1:c:568:ARG:NH1	2.35	0.42
1:d:699:GLU:HB2	1:d:701:GLN:HE21	1.84	0.42
1:e:256:HIS:HD2	1:e:654:PRO:HG3	1.80	0.42
1:f:272:ASN:ND2	1:g:474:ALA:H	2.18	0.42
1:g:430:GLN:O	1:g:569:PRO:HB3	2.19	0.42
1:i:479:ASN:ND2	1:j:357:GLY:O	2.52	0.42
1:k:253:TYR:OH	1:k:374:ILE:O	2.35	0.42
1:k:430:GLN:O	1:k:569:PRO:HB3	2.19	0.42
1:n:528:THR:CG2	1:n:564:GLU:H	2.32	0.42
1:o:528:THR:OG1	1:o:563:ASN:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:528:THR:OG1	1:s:563:ASN:HB2	2.20	0.42
1:t:357:GLY:O	1:v:479:ASN:ND2	2.52	0.42
1:x:308:PHE:HA	1:x:687:GLU:O	2.19	0.42
1:y:691:GLU:OE2	1:y:693:SER:HB3	2.20	0.42
1:z:357:GLY:O	1:2:479:ASN:ND2	2.52	0.42
1:1:290:HIS:HD2	1:1:366:PRO:HB3	1.83	0.42
1:5:474:ALA:H	1:6:272:ASN:ND2	2.18	0.42
1:B:691:GLU:OE2	1:B:693:SER:HB3	2.20	0.42
1:C:430:GLN:O	1:C:569:PRO:HB3	2.19	0.42
1:C:691:GLU:OE2	1:C:693:SER:HB3	2.20	0.42
1:E:272:ASN:ND2	1:F:474:ALA:H	2.18	0.42
1:H:531:ASP:HA	1:H:568:ARG:NH1	2.35	0.42
1:J:430:GLN:O	1:J:569:PRO:HB3	2.19	0.42
1:L:220:ASP:HB2	1:L:224:ASN:HD22	1.85	0.42
1:M:357:GLY:O	1:b:479:ASN:ND2	2.52	0.42
1:N:699:GLU:HB2	1:N:701:GLN:HE21	1.84	0.42
1:O:308:PHE:HA	1:O:687:GLU:O	2.18	0.42
1:Q:531:ASP:HA	1:Q:568:ARG:NH1	2.35	0.42
1:T:220:ASP:HB2	1:T:224:ASN:HD22	1.85	0.42
1:W:466:TYR:CD1	1:Y:553:LYS:HG2	2.55	0.42
1:X:528:THR:OG1	1:X:563:ASN:HB2	2.20	0.42
1:a:466:TYR:CD1	1:8:553:LYS:HG2	2.55	0.42
1:c:528:THR:OG1	1:c:563:ASN:HB2	2.20	0.42
1:d:528:THR:OG1	1:d:563:ASN:HB2	2.20	0.42
1:d:531:ASP:HA	1:d:568:ARG:NH1	2.35	0.42
1:e:531:ASP:HA	1:e:568:ARG:NH1	2.35	0.42
1:f:290:HIS:HD2	1:f:366:PRO:HB3	1.83	0.42
1:f:479:ASN:ND2	1:h:357:GLY:O	2.52	0.42
1:j:466:TYR:CD1	1:k:553:LYS:HG2	2.55	0.42
1:j:479:ASN:ND2	1:k:357:GLY:O	2.52	0.42
1:j:691:GLU:OE2	1:j:693:SER:HB3	2.20	0.42
1:k:528:THR:CG2	1:k:564:GLU:H	2.32	0.42
1:l:308:PHE:HA	1:l:687:GLU:O	2.19	0.42
1:l:341:THR:HG22	1:l:406:ARG:HG3	2.02	0.42
1:m:220:ASP:HB2	1:m:224:ASN:HD22	1.85	0.42
1:n:699:GLU:HB2	1:n:701:GLN:HE21	1.84	0.42
1:o:474:ALA:H	1:p:272:ASN:ND2	2.18	0.42
1:s:528:THR:CG2	1:s:564:GLU:H	2.32	0.42
1:t:428:HIS:HE1	1:u:625:HIS:O	2.02	0.42
1:z:272:ASN:ND2	1:2:474:ALA:H	2.18	0.42
1:1:691:GLU:OE2	1:1:693:SER:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:699:GLU:HB2	1:1:701:GLN:HE21	1.84	0.42
1:5:341:THR:HG22	1:5:406:ARG:HG3	2.02	0.42
1:5:625:HIS:O	1:7:428:HIS:HE1	2.02	0.42
1:B:290:HIS:HD2	1:B:366:PRO:HB3	1.83	0.41
1:B:341:THR:HG22	1:B:406:ARG:HG3	2.02	0.41
1:C:466:TYR:CD1	1:b:553:LYS:HG2	2.55	0.41
1:E:699:GLU:HB2	1:E:701:GLN:HE21	1.84	0.41
1:H:341:THR:HG22	1:H:406:ARG:HG3	2.02	0.41
1:K:357:GLY:O	1:8:479:ASN:ND2	2.52	0.41
1:K:531:ASP:HA	1:K:568:ARG:NH1	2.35	0.41
1:L:528:THR:CG2	1:L:564:GLU:H	2.32	0.41
1:M:531:ASP:HA	1:M:568:ARG:NH1	2.35	0.41
1:O:220:ASP:HB2	1:O:224:ASN:HD22	1.85	0.41
1:O:553:LYS:HG2	1:n:466:TYR:CD1	2.55	0.41
1:P:528:THR:OG1	1:P:563:ASN:HB2	2.20	0.41
1:P:691:GLU:OE2	1:P:693:SER:HB3	2.20	0.41
1:Q:220:ASP:HB2	1:Q:224:ASN:HD22	1.85	0.41
1:R:430:GLN:O	1:R:569:PRO:HB3	2.19	0.41
1:R:474:ALA:H	1:S:272:ASN:ND2	2.18	0.41
1:R:553:LYS:HG2	1:U:466:TYR:CD1	2.55	0.41
1:U:290:HIS:HD2	1:U:366:PRO:HB3	1.82	0.41
1:U:531:ASP:HA	1:U:568:ARG:NH1	2.35	0.41
1:Y:528:THR:OG1	1:Y:563:ASN:HB2	2.20	0.41
1:Z:531:ASP:HA	1:Z:568:ARG:NH1	2.35	0.41
1:Z:553:LYS:HG2	1:3:466:TYR:CD1	2.55	0.41
1:c:220:ASP:HB2	1:c:224:ASN:HD22	1.85	0.41
1:c:553:LYS:HG2	1:p:466:TYR:CD1	2.55	0.41
1:d:528:THR:CG2	1:d:564:GLU:H	2.32	0.41
1:e:220:ASP:HB2	1:e:224:ASN:HD22	1.85	0.41
1:e:528:THR:OG1	1:e:563:ASN:HB2	2.20	0.41
1:g:290:HIS:HD2	1:g:366:PRO:HB3	1.83	0.41
1:g:528:THR:CG2	1:g:564:GLU:H	2.32	0.41
1:g:625:HIS:O	1:h:428:HIS:HE1	2.02	0.41
1:h:531:ASP:HA	1:h:568:ARG:NH1	2.35	0.41
1:i:691:GLU:OE2	1:i:693:SER:HB3	2.20	0.41
1:i:699:GLU:HB2	1:i:701:GLN:HE21	1.84	0.41
1:l:220:ASP:HB2	1:l:224:ASN:HD22	1.85	0.41
1:q:466:TYR:CD1	1:r:553:LYS:HG2	2.55	0.41
1:q:553:LYS:HG2	1:s:466:TYR:CD1	2.55	0.41
1:s:531:ASP:HA	1:s:568:ARG:NH1	2.35	0.41
1:t:321:GLN:NE2	1:6:340:SER:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:272:ASN:ND2	1:y:474:ALA:H	2.18	0.41
1:w:553:LYS:HG2	1:y:466:TYR:CD1	2.55	0.41
1:x:531:ASP:HA	1:x:568:ARG:NH1	2.35	0.41
1:x:699:GLU:HB2	1:x:701:GLN:HE21	1.84	0.41
1:2:528:THR:CG2	1:2:564:GLU:H	2.32	0.41
1:2:531:ASP:HA	1:2:568:ARG:NH1	2.35	0.41
1:4:531:ASP:HA	1:4:568:ARG:NH1	2.35	0.41
1:5:531:ASP:HA	1:5:568:ARG:NH1	2.35	0.41
1:6:466:TYR:CD1	1:7:553:LYS:HG2	2.55	0.41
1:6:531:ASP:HA	1:6:568:ARG:NH1	2.35	0.41
1:8:531:ASP:HA	1:8:568:ARG:NH1	2.35	0.41
1:A:503:PHE:CZ	1:I:450:THR:HG21	2.55	0.41
1:A:699:GLU:HB2	1:A:701:GLN:HE21	1.84	0.41
1:C:290:HIS:HD2	1:C:366:PRO:HB3	1.83	0.41
1:C:357:GLY:O	1:M:479:ASN:ND2	2.53	0.41
1:C:528:THR:CG2	1:C:564:GLU:H	2.32	0.41
1:D:528:THR:CG2	1:D:564:GLU:H	2.32	0.41
1:F:272:ASN:ND2	1:Q:474:ALA:H	2.18	0.41
1:F:341:THR:HG22	1:F:406:ARG:HG3	2.02	0.41
1:F:528:THR:OG1	1:F:563:ASN:HB2	2.20	0.41
1:G:479:ASN:ND2	1:I:357:GLY:O	2.53	0.41
1:G:531:ASP:HA	1:G:568:ARG:NH1	2.35	0.41
1:J:474:ALA:H	1:L:272:ASN:ND2	2.18	0.41
1:J:528:THR:CG2	1:J:564:GLU:H	2.32	0.41
1:L:487:ARG:NH2	1:L:598:ASN:OD1	2.49	0.41
1:M:528:THR:CG2	1:M:564:GLU:H	2.32	0.41
1:M:553:LYS:HG2	1:b:466:TYR:CD1	2.55	0.41
1:N:220:ASP:HB2	1:N:224:ASN:HD22	1.85	0.41
1:N:691:GLU:OE2	1:N:693:SER:HB3	2.20	0.41
1:O:341:THR:HG22	1:O:406:ARG:HG3	2.02	0.41
1:O:625:HIS:O	1:n:428:HIS:HE1	2.01	0.41
1:Q:699:GLU:HB2	1:Q:701:GLN:HE21	1.84	0.41
1:R:466:TYR:CD1	1:S:553:LYS:HG2	2.55	0.41
1:T:528:THR:OG1	1:T:563:ASN:HB2	2.20	0.41
1:W:341:THR:HG22	1:W:406:ARG:HG3	2.02	0.41
1:Z:479:ASN:ND2	1:4:357:GLY:O	2.52	0.41
1:c:256:HIS:HD2	1:c:654:PRO:HG3	1.80	0.41
1:c:341:THR:HG22	1:c:406:ARG:HG3	2.02	0.41
1:d:466:TYR:CD1	1:l:553:LYS:HG2	2.55	0.41
1:g:691:GLU:OE2	1:g:693:SER:HB3	2.20	0.41
1:i:531:ASP:HA	1:i:568:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:321:GLN:NE2	1:x:340:SER:HA	2.35	0.41
1:j:487:ARG:NH2	1:j:598:ASN:OD1	2.49	0.41
1:j:528:THR:OG1	1:j:563:ASN:HB2	2.20	0.41
1:m:450:THR:HG21	1:n:503:PHE:CZ	2.54	0.41
1:n:528:THR:OG1	1:n:563:ASN:HB2	2.20	0.41
1:q:474:ALA:H	1:r:272:ASN:ND2	2.18	0.41
1:r:474:ALA:H	1:s:272:ASN:ND2	2.18	0.41
1:v:699:GLU:HB2	1:v:701:GLN:HE21	1.84	0.41
1:y:341:THR:HG22	1:y:406:ARG:HG3	2.02	0.41
1:z:220:ASP:HB2	1:z:224:ASN:HD22	1.85	0.41
1:1:341:THR:HG22	1:1:406:ARG:HG3	2.02	0.41
1:6:341:THR:HG22	1:6:406:ARG:HG3	2.02	0.41
1:6:490:ARG:HB2	1:6:575:THR:HB	2.03	0.41
1:7:528:THR:CG2	1:7:564:GLU:H	2.32	0.41
1:7:528:THR:OG1	1:7:563:ASN:HB2	2.20	0.41
1:8:430:GLN:O	1:8:569:PRO:HB3	2.19	0.41
1:C:474:ALA:H	1:b:272:ASN:ND2	2.19	0.41
1:D:357:GLY:O	1:P:479:ASN:ND2	2.52	0.41
1:F:220:ASP:HB2	1:F:224:ASN:HD22	1.85	0.41
1:F:224:ASN:OD1	1:G:409:ASN:ND2	2.39	0.41
1:G:321:GLN:NE2	1:W:340:SER:HA	2.36	0.41
1:K:699:GLU:HB2	1:K:701:GLN:HE21	1.84	0.41
1:N:321:GLN:NE2	1:m:340:SER:HA	2.36	0.41
1:N:341:THR:HG22	1:N:406:ARG:HG3	2.02	0.41
1:N:466:TYR:CD1	1:P:553:LYS:HG2	2.55	0.41
1:Q:490:ARG:HB2	1:Q:575:THR:HB	2.03	0.41
1:R:531:ASP:HA	1:R:568:ARG:NH1	2.35	0.41
1:S:474:ALA:H	1:U:272:ASN:ND2	2.18	0.41
1:S:531:ASP:HA	1:S:568:ARG:NH1	2.35	0.41
1:V:357:GLY:O	1:X:479:ASN:ND2	2.52	0.41
1:W:531:ASP:HA	1:W:568:ARG:NH1	2.35	0.41
1:Y:283:TYR:O	1:Y:374:ILE:HG23	2.21	0.41
1:Y:528:THR:CG2	1:Y:564:GLU:H	2.32	0.41
1:Y:531:ASP:HA	1:Y:568:ARG:NH1	2.35	0.41
1:b:290:HIS:HD2	1:b:366:PRO:HB3	1.83	0.41
1:d:428:HIS:HE1	1:l:625:HIS:O	2.01	0.41
1:f:531:ASP:HA	1:f:568:ARG:NH1	2.35	0.41
1:g:272:ASN:ND2	1:h:474:ALA:H	2.18	0.41
1:h:321:GLN:NE2	1:i:340:SER:HA	2.36	0.41
1:h:528:THR:CG2	1:h:564:GLU:H	2.32	0.41
1:i:220:ASP:HB2	1:i:224:ASN:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:341:THR:HG22	1:i:406:ARG:HG3	2.02	0.41
1:k:341:THR:HG22	1:k:406:ARG:HG3	2.02	0.41
1:m:528:THR:OG1	1:m:563:ASN:HB2	2.20	0.41
1:n:487:ARG:NH2	1:n:598:ASN:OD1	2.49	0.41
1:n:531:ASP:HA	1:n:568:ARG:NH1	2.35	0.41
1:o:283:TYR:O	1:o:374:ILE:HG23	2.21	0.41
1:q:430:GLN:O	1:q:569:PRO:HB3	2.19	0.41
1:r:528:THR:OG1	1:r:563:ASN:HB2	2.20	0.41
1:r:532:ASP:OD1	1:s:384:ASN:ND2	2.42	0.41
1:w:357:GLY:O	1:y:479:ASN:ND2	2.52	0.41
1:w:528:THR:OG1	1:w:563:ASN:HB2	2.20	0.41
1:x:220:ASP:HB2	1:x:224:ASN:HD22	1.85	0.41
1:x:490:ARG:HB2	1:x:575:THR:HB	2.03	0.41
1:y:220:ASP:HB2	1:y:224:ASN:HD22	1.85	0.41
1:y:528:THR:OG1	1:y:563:ASN:HB2	2.20	0.41
1:z:528:THR:CG2	1:z:564:GLU:H	2.32	0.41
1:D:341:THR:HG22	1:D:406:ARG:HG3	2.02	0.41
1:D:528:THR:OG1	1:D:563:ASN:HB2	2.20	0.41
1:D:553:LYS:HG2	1:P:466:TYR:CD1	2.55	0.41
1:E:357:GLY:O	1:F:479:ASN:ND2	2.52	0.41
1:H:528:THR:OG1	1:H:563:ASN:HB2	2.20	0.41
1:I:283:TYR:O	1:I:374:ILE:HG23	2.21	0.41
1:M:220:ASP:HB2	1:M:224:ASN:HD22	1.85	0.41
1:M:321:GLN:NE2	1:N:340:SER:HA	2.36	0.41
1:N:531:ASP:HA	1:N:568:ARG:NH1	2.35	0.41
1:S:691:GLU:OE2	1:S:693:SER:HB3	2.20	0.41
1:T:450:THR:HG21	1:d:503:PHE:CZ	2.55	0.41
1:U:691:GLU:OE2	1:U:693:SER:HB3	2.20	0.41
1:V:283:TYR:O	1:V:374:ILE:HG23	2.21	0.41
1:X:283:TYR:O	1:X:374:ILE:HG23	2.21	0.41
1:X:409:ASN:ND2	1:f:224:ASN:OD1	2.39	0.41
1:Z:430:GLN:O	1:Z:569:PRO:HB3	2.19	0.41
1:Z:466:TYR:CD1	1:4:553:LYS:HG2	2.55	0.41
1:b:531:ASP:HA	1:b:568:ARG:NH1	2.35	0.41
1:c:283:TYR:O	1:c:374:ILE:HG23	2.21	0.41
1:e:283:TYR:O	1:e:374:ILE:HG23	2.21	0.41
1:e:341:THR:HG22	1:e:406:ARG:HG3	2.02	0.41
1:h:220:ASP:HB2	1:h:224:ASN:HD22	1.85	0.41
1:i:466:TYR:CD1	1:j:553:LYS:HG2	2.55	0.41
1:j:528:THR:CG2	1:j:564:GLU:H	2.32	0.41
1:k:528:THR:OG1	1:k:563:ASN:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:487:ARG:NH2	1:q:598:ASN:OD1	2.49	0.41
1:q:531:ASP:HA	1:q:568:ARG:NH1	2.35	0.41
1:q:701:GLN:N	1:x:703:THR:CG2	2.50	0.41
1:r:531:ASP:HA	1:r:568:ARG:NH1	2.35	0.41
1:r:691:GLU:OE2	1:r:693:SER:HB3	2.20	0.41
1:s:290:HIS:HD2	1:s:366:PRO:HB3	1.83	0.41
1:t:531:ASP:HA	1:t:568:ARG:NH1	2.35	0.41
1:u:283:TYR:O	1:u:374:ILE:HG23	2.21	0.41
1:z:553:LYS:HG2	1:2:466:TYR:CD1	2.55	0.41
1:2:691:GLU:OE2	1:2:693:SER:HB3	2.20	0.41
1:3:290:HIS:HD2	1:3:366:PRO:HB3	1.83	0.41
1:3:531:ASP:HA	1:3:568:ARG:NH1	2.35	0.41
1:4:699:GLU:HB2	1:4:701:GLN:HE21	1.84	0.41
1:5:528:THR:OG1	1:5:563:ASN:HB2	2.20	0.41
1:7:283:TYR:O	1:7:374:ILE:HG23	2.21	0.41
1:8:528:THR:OG1	1:8:563:ASN:HB2	2.20	0.41
1:B:553:LYS:HG2	1:L:466:TYR:CD1	2.55	0.41
1:C:490:ARG:HB2	1:C:575:THR:HB	2.03	0.41
1:C:553:LYS:HG2	1:M:466:TYR:CD1	2.55	0.41
1:E:528:THR:OG1	1:E:563:ASN:HB2	2.20	0.41
1:F:321:GLN:NE2	1:G:340:SER:HA	2.36	0.41
1:G:474:ALA:H	1:I:272:ASN:ND2	2.18	0.41
1:G:691:GLU:OE2	1:G:693:SER:HB3	2.20	0.41
1:H:220:ASP:HB2	1:H:224:ASN:HD22	1.85	0.41
1:H:699:GLU:HB2	1:H:701:GLN:HE21	1.84	0.41
1:J:703:THR:HG22	1:K:701:GLN:H	1.70	0.41
1:K:272:ASN:ND2	1:8:474:ALA:H	2.18	0.41
1:K:290:HIS:HD2	1:K:366:PRO:HB3	1.83	0.41
1:K:528:THR:OG1	1:K:563:ASN:HB2	2.20	0.41
1:M:691:GLU:OE2	1:M:693:SER:HB3	2.20	0.41
1:O:434:ARG:HD3	1:O:434:ARG:HA	1.92	0.41
1:O:466:TYR:CD1	1:m:553:LYS:HG2	2.55	0.41
1:P:321:GLN:NE2	1:Q:340:SER:HA	2.36	0.41
1:Q:283:TYR:O	1:Q:374:ILE:HG23	2.21	0.41
1:S:283:TYR:O	1:S:374:ILE:HG23	2.21	0.41
1:S:528:THR:OG1	1:S:563:ASN:HB2	2.20	0.41
1:T:699:GLU:HB2	1:T:701:GLN:HE21	1.84	0.41
1:W:474:ALA:H	1:Y:272:ASN:ND2	2.18	0.41
1:W:490:ARG:HB2	1:W:575:THR:HB	2.03	0.41
1:Z:528:THR:OG1	1:Z:563:ASN:HB2	2.20	0.41
1:a:490:ARG:HB2	1:a:575:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:474:ALA:H	1:o:272:ASN:ND2	2.18	0.41
1:c:490:ARG:HB2	1:c:575:THR:HB	2.03	0.41
1:d:290:HIS:HD2	1:d:366:PRO:HB3	1.83	0.41
1:d:487:ARG:NH2	1:d:598:ASN:OD1	2.49	0.41
1:g:220:ASP:HB2	1:g:224:ASN:HD22	1.85	0.41
1:i:474:ALA:H	1:j:272:ASN:ND2	2.18	0.41
1:i:490:ARG:HB2	1:i:575:THR:HB	2.03	0.41
1:j:341:THR:HG22	1:j:406:ARG:HG3	2.02	0.41
1:m:474:ALA:H	1:n:272:ASN:ND2	2.18	0.41
1:m:531:ASP:HA	1:m:568:ARG:NH1	2.35	0.41
1:m:699:GLU:HB2	1:m:701:GLN:HE21	1.84	0.41
1:n:290:HIS:HD2	1:n:366:PRO:HB3	1.83	0.41
1:o:479:ASN:ND2	1:p:357:GLY:O	2.53	0.41
1:p:283:TYR:O	1:p:374:ILE:HG23	2.21	0.41
1:r:283:TYR:O	1:r:374:ILE:HG23	2.21	0.41
1:s:220:ASP:HB2	1:s:224:ASN:HD22	1.85	0.41
1:t:466:TYR:CD1	1:u:553:LYS:HG2	2.55	0.41
1:u:340:SER:HA	1:5:321:GLN:NE2	2.36	0.41
1:w:466:TYR:CD1	1:x:553:LYS:HG2	2.55	0.41
1:w:532:ASP:OD1	1:x:384:ASN:ND2	2.42	0.41
1:z:466:TYR:CD1	1:1:553:LYS:HG2	2.55	0.41
1:z:487:ARG:NH2	1:z:598:ASN:OD1	2.49	0.41
1:5:220:ASP:HB2	1:5:224:ASN:HD22	1.85	0.41
1:5:340:SER:HA	1:8:321:GLN:NE2	2.36	0.41
1:6:532:ASP:OD1	1:7:384:ASN:ND2	2.43	0.41
1:7:531:ASP:HA	1:7:568:ARG:NH1	2.35	0.41
1:A:700:ILE:HA	1:F:703:THR:HG22	2.03	0.41
1:C:409:ASN:ND2	1:D:224:ASN:OD1	2.40	0.41
1:D:283:TYR:O	1:D:374:ILE:HG23	2.21	0.41
1:E:487:ARG:NH2	1:E:598:ASN:OD1	2.49	0.41
1:E:691:GLU:OE2	1:E:693:SER:HB3	2.20	0.41
1:I:490:ARG:HB2	1:I:575:THR:HB	2.03	0.41
1:J:691:GLU:OE2	1:J:693:SER:HB3	2.20	0.41
1:K:553:LYS:HG2	1:8:466:TYR:CD1	2.55	0.41
1:N:474:ALA:H	1:P:272:ASN:ND2	2.18	0.41
1:N:490:ARG:HB2	1:N:575:THR:HB	2.03	0.41
1:O:272:ASN:ND2	1:n:474:ALA:H	2.18	0.41
1:P:341:THR:HG22	1:P:406:ARG:HG3	2.02	0.41
1:P:528:THR:CG2	1:P:564:GLU:H	2.32	0.41
1:R:490:ARG:HB2	1:R:575:THR:HB	2.03	0.41
1:T:272:ASN:ND2	1:l:474:ALA:H	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:531:ASP:HA	1:T:568:ARG:NH1	2.35	0.41
1:U:220:ASP:HB2	1:U:224:ASN:HD22	1.85	0.41
1:U:283:TYR:O	1:U:374:ILE:HG23	2.21	0.41
1:X:272:ASN:ND2	1:e:474:ALA:H	2.18	0.41
1:X:341:THR:HG22	1:X:406:ARG:HG3	2.02	0.41
1:Z:474:ALA:H	1:4:272:ASN:ND2	2.18	0.41
1:Z:691:GLU:OE2	1:Z:693:SER:HB3	2.20	0.41
1:a:531:ASP:HA	1:a:568:ARG:NH1	2.35	0.41
1:b:256:HIS:HD2	1:b:654:PRO:HG3	1.80	0.41
1:b:490:ARG:HB2	1:b:575:THR:HB	2.03	0.41
1:c:340:SER:HA	1:s:321:GLN:NE2	2.36	0.41
1:c:691:GLU:OE2	1:c:693:SER:HB3	2.20	0.41
1:d:490:ARG:HB2	1:d:575:THR:HB	2.03	0.41
1:e:490:ARG:HB2	1:e:575:THR:HB	2.03	0.41
1:e:691:GLU:OE2	1:e:693:SER:HB3	2.20	0.41
1:f:466:TYR:CD1	1:h:553:LYS:HG2	2.55	0.41
1:f:490:ARG:HB2	1:f:575:THR:HB	2.03	0.41
1:g:409:ASN:ND2	1:k:224:ASN:OD1	2.39	0.41
1:h:691:GLU:OE2	1:h:693:SER:HB3	2.20	0.41
1:i:528:THR:OG1	1:i:563:ASN:HB2	2.20	0.41
1:j:409:ASN:ND2	1:l:224:ASN:OD1	2.39	0.41
1:k:283:TYR:O	1:k:374:ILE:HG23	2.21	0.41
1:m:283:TYR:O	1:m:374:ILE:HG23	2.21	0.41
1:m:466:TYR:CD1	1:n:553:LYS:HG2	2.55	0.41
1:o:321:GLN:NE2	1:7:340:SER:HA	2.36	0.41
1:o:490:ARG:HB2	1:o:575:THR:HB	2.03	0.41
1:s:283:TYR:O	1:s:374:ILE:HG23	2.21	0.41
1:s:691:GLU:OE2	1:s:693:SER:HB3	2.20	0.41
1:t:340:SER:HA	1:y:321:GLN:NE2	2.36	0.41
1:t:474:ALA:H	1:u:272:ASN:ND2	2.18	0.41
1:t:553:LYS:HG2	1:v:466:TYR:CD1	2.55	0.41
1:t:691:GLU:OE2	1:t:693:SER:HB3	2.20	0.41
1:u:490:ARG:HB2	1:u:575:THR:HB	2.03	0.41
1:v:321:GLN:NE2	1:w:340:SER:HA	2.36	0.41
1:w:691:GLU:OE2	1:w:693:SER:HB3	2.20	0.41
1:x:283:TYR:O	1:x:374:ILE:HG23	2.21	0.41
1:z:691:GLU:OE2	1:z:693:SER:HB3	2.20	0.41
1:1:528:THR:OG1	1:1:563:ASN:HB2	2.20	0.41
1:3:220:ASP:HB2	1:3:224:ASN:HD22	1.85	0.41
1:3:490:ARG:HB2	1:3:575:THR:HB	2.03	0.41
1:4:490:ARG:HB2	1:4:575:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:290:HIS:HD2	1:6:366:PRO:HB3	1.83	0.41
1:A:283:TYR:O	1:A:374:ILE:HG23	2.21	0.41
1:A:691:GLU:OE2	1:A:693:SER:HB3	2.20	0.41
1:B:528:THR:OG1	1:B:563:ASN:HB2	2.20	0.41
1:C:253:TYR:OH	1:C:374:ILE:O	2.35	0.41
1:E:466:TYR:CD1	1:Q:553:LYS:HG2	2.55	0.41
1:G:341:THR:HG22	1:G:406:ARG:HG3	2.02	0.41
1:G:490:ARG:HB2	1:G:575:THR:HB	2.03	0.41
1:H:272:ASN:ND2	1:Y:474:ALA:H	2.18	0.41
1:H:321:GLN:NE2	1:I:340:SER:HA	2.36	0.41
1:H:340:SER:HA	1:Z:321:GLN:NE2	2.36	0.41
1:J:466:TYR:CD1	1:L:553:LYS:HG2	2.55	0.41
1:K:490:ARG:HB2	1:K:575:THR:HB	2.03	0.41
1:M:528:THR:OG1	1:M:563:ASN:HB2	2.20	0.41
1:N:528:THR:OG1	1:N:563:ASN:HB2	2.20	0.41
1:O:224:ASN:OD1	1:P:409:ASN:ND2	2.39	0.41
1:O:283:TYR:O	1:O:374:ILE:HG23	2.21	0.41
1:O:528:THR:CG2	1:O:564:GLU:H	2.32	0.41
1:P:487:ARG:NH2	1:P:598:ASN:OD1	2.49	0.41
1:Q:321:GLN:NE2	1:S:340:SER:HA	2.36	0.41
1:R:487:ARG:NH2	1:R:598:ASN:OD1	2.49	0.41
1:T:283:TYR:O	1:T:374:ILE:HG23	2.21	0.41
1:T:474:ALA:H	1:d:272:ASN:ND2	2.19	0.41
1:U:321:GLN:NE2	1:e:340:SER:HA	2.36	0.41
1:X:321:GLN:NE2	1:Y:340:SER:HA	2.36	0.41
1:Y:691:GLU:OE2	1:Y:693:SER:HB3	2.20	0.41
1:a:220:ASP:HB2	1:a:224:ASN:HD22	1.85	0.41
1:a:290:HIS:HD2	1:a:366:PRO:HB3	1.83	0.41
1:b:283:TYR:O	1:b:374:ILE:HG23	2.21	0.41
1:f:283:TYR:O	1:f:374:ILE:HG23	2.21	0.41
1:f:400:PHE:CD1	1:g:694:LYS:HE2	2.56	0.41
1:g:490:ARG:HB2	1:g:575:THR:HB	2.03	0.41
1:i:553:LYS:HG2	1:k:466:TYR:CD1	2.55	0.41
1:k:220:ASP:HB2	1:k:224:ASN:HD22	1.85	0.41
1:n:490:ARG:HB2	1:n:575:THR:HB	2.03	0.41
1:o:691:GLU:OE2	1:o:693:SER:HB3	2.20	0.41
1:q:490:ARG:HB2	1:q:575:THR:HB	2.03	0.41
1:s:490:ARG:HB2	1:s:575:THR:HB	2.03	0.41
1:u:474:ALA:H	1:v:272:ASN:ND2	2.18	0.41
1:w:479:ASN:ND2	1:x:357:GLY:O	2.52	0.41
1:w:487:ARG:NH2	1:w:598:ASN:OD1	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:474:ALA:H	1:y:272:ASN:ND2	2.19	0.41
1:z:531:ASP:HA	1:z:568:ARG:NH1	2.35	0.41
1:1:490:ARG:HB2	1:1:575:THR:HB	2.03	0.41
1:4:290:HIS:HD2	1:4:366:PRO:HB3	1.83	0.41
1:4:528:THR:OG1	1:4:563:ASN:HB2	2.20	0.41
1:5:553:LYS:HG2	1:7:466:TYR:CD1	2.55	0.41
1:5:699:GLU:HB2	1:5:701:GLN:HE21	1.84	0.41
1:6:474:ALA:H	1:7:272:ASN:ND2	2.18	0.41
1:7:691:GLU:OE2	1:7:693:SER:HB3	2.20	0.41
1:8:691:GLU:OE2	1:8:693:SER:HB3	2.20	0.41
1:B:490:ARG:HB2	1:B:575:THR:HB	2.03	0.41
1:C:220:ASP:HB2	1:C:224:ASN:HD22	1.86	0.41
1:I:531:ASP:HA	1:I:568:ARG:NH1	2.35	0.41
1:J:220:ASP:HB2	1:J:224:ASN:HD22	1.85	0.41
1:J:341:THR:HG22	1:J:406:ARG:HG3	2.02	0.41
1:K:474:ALA:H	1:a:272:ASN:ND2	2.18	0.41
1:L:283:TYR:O	1:L:374:ILE:HG23	2.21	0.41
1:L:321:GLN:NE2	1:b:340:SER:HA	2.36	0.41
1:L:531:ASP:HA	1:L:568:ARG:NH1	2.35	0.41
1:O:384:ASN:ND2	1:n:532:ASP:OD1	2.42	0.41
1:Q:703:THR:CG2	1:R:701:GLN:N	2.50	0.41
1:R:272:ASN:ND2	1:U:474:ALA:H	2.18	0.41
1:W:290:HIS:HD2	1:W:366:PRO:HB3	1.83	0.41
1:X:490:ARG:HB2	1:X:575:THR:HB	2.03	0.41
1:Z:220:ASP:HB2	1:Z:224:ASN:HD22	1.85	0.41
1:a:474:ALA:H	1:8:272:ASN:ND2	2.18	0.41
1:d:532:ASP:OD1	1:l:384:ASN:ND2	2.42	0.41
1:f:340:SER:HA	1:z:321:GLN:NE2	2.36	0.41
1:g:340:SER:HA	1:k:321:GLN:NE2	2.35	0.41
1:h:528:THR:OG1	1:h:563:ASN:HB2	2.20	0.41
1:j:474:ALA:H	1:k:272:ASN:ND2	2.18	0.41
1:l:283:TYR:O	1:l:374:ILE:HG23	2.21	0.41
1:l:528:THR:CG2	1:l:564:GLU:H	2.32	0.41
1:n:283:TYR:O	1:n:374:ILE:HG23	2.21	0.41
1:o:341:THR:HG22	1:o:406:ARG:HG3	2.02	0.41
1:q:283:TYR:O	1:q:374:ILE:HG23	2.21	0.41
1:t:341:THR:HG22	1:t:406:ARG:HG3	2.02	0.41
1:t:409:ASN:ND2	1:y:224:ASN:OD1	2.39	0.41
1:v:283:TYR:O	1:v:374:ILE:HG23	2.21	0.41
1:v:531:ASP:HA	1:v:568:ARG:NH1	2.35	0.41
1:v:691:GLU:OE2	1:v:693:SER:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:283:TYR:O	1:z:374:ILE:HG23	2.21	0.41
1:z:479:ASN:ND2	1:1:357:GLY:O	2.52	0.41
1:2:220:ASP:HB2	1:2:224:ASN:HD22	1.85	0.41
1:2:341:THR:HG22	1:2:406:ARG:HG3	2.02	0.41
1:5:272:ASN:ND2	1:7:474:ALA:H	2.18	0.41
1:6:691:GLU:OE2	1:6:693:SER:HB3	2.20	0.41
1:A:321:GLN:NE2	1:E:340:SER:HA	2.36	0.41
1:A:495:LEU:O	1:I:461:ARG:HD3	2.20	0.41
1:A:531:ASP:HA	1:A:568:ARG:NH1	2.35	0.41
1:B:220:ASP:HB2	1:B:224:ASN:HD22	1.85	0.41
1:B:272:ASN:ND2	1:L:474:ALA:H	2.18	0.41
1:B:357:GLY:O	1:L:479:ASN:ND2	2.52	0.41
1:C:272:ASN:ND2	1:M:474:ALA:H	2.18	0.41
1:D:220:ASP:HB2	1:D:224:ASN:HD22	1.85	0.41
1:D:272:ASN:ND2	1:P:474:ALA:H	2.18	0.41
1:D:701:GLN:N	1:M:703:THR:CG2	2.50	0.41
1:E:220:ASP:HB2	1:E:224:ASN:HD22	1.85	0.41
1:E:283:TYR:O	1:E:374:ILE:HG23	2.21	0.41
1:E:479:ASN:ND2	1:Q:357:GLY:O	2.52	0.41
1:E:490:ARG:HB2	1:E:575:THR:HB	2.03	0.41
1:E:532:ASP:OD1	1:Q:384:ASN:ND2	2.42	0.41
1:G:220:ASP:HB2	1:G:224:ASN:HD22	1.85	0.41
1:H:283:TYR:O	1:H:374:ILE:HG23	2.21	0.41
1:H:553:LYS:HG2	1:Y:466:TYR:CD1	2.55	0.41
1:I:341:THR:HG22	1:I:406:ARG:HG3	2.02	0.41
1:K:230[B]:HIS:O	1:K:245:THR:OG1	2.37	0.41
1:L:691:GLU:OE2	1:L:693:SER:HB3	2.20	0.41
1:M:340:SER:HA	1:c:321:GLN:NE2	2.36	0.41
1:M:490:ARG:HB2	1:M:575:THR:HB	2.03	0.41
1:O:531:ASP:HA	1:O:568:ARG:NH1	2.35	0.41
1:O:691:GLU:OE2	1:O:693:SER:HB3	2.20	0.41
1:P:283:TYR:O	1:P:374:ILE:HG23	2.21	0.41
1:P:490:ARG:HB2	1:P:575:THR:HB	2.03	0.41
1:R:283:TYR:O	1:R:374:ILE:HG23	2.21	0.41
1:T:384:ASN:ND2	1:l:532:ASP:OD1	2.42	0.41
1:U:490:ARG:HB2	1:U:575:THR:HB	2.03	0.41
1:W:283:TYR:O	1:W:374:ILE:HG23	2.21	0.41
1:W:691:GLU:OE2	1:W:693:SER:HB3	2.20	0.41
1:X:220:ASP:HB2	1:X:224:ASN:HD22	1.85	0.41
1:X:434:ARG:HA	1:X:434:ARG:HD3	1.92	0.41
1:X:691:GLU:OE2	1:X:693:SER:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:272:ASN:ND2	1:3:474:ALA:H	2.18	0.41
1:b:691:GLU:OE2	1:b:693:SER:HB3	2.20	0.41
1:d:220:ASP:HB2	1:d:224:ASN:HD22	1.85	0.41
1:d:283:TYR:O	1:d:374:ILE:HG23	2.21	0.41
1:d:474:ALA:H	1:l:272:ASN:ND2	2.19	0.41
1:e:321:GLN:NE2	1:h:340:SER:HA	2.36	0.41
1:f:256:HIS:HD2	1:f:654:PRO:HG3	1.80	0.41
1:g:253:TYR:OH	1:g:374:ILE:O	2.35	0.41
1:g:700:ILE:HA	1:z:703:THR:HG22	2.02	0.41
1:h:490:ARG:HB2	1:h:575:THR:HB	2.03	0.41
1:h:703:THR:CG2	1:k:701:GLN:N	2.50	0.41
1:i:272:ASN:ND2	1:k:474:ALA:H	2.18	0.41
1:j:283:TYR:O	1:j:374:ILE:HG23	2.21	0.41
1:k:691:GLU:OE2	1:k:693:SER:HB3	2.20	0.41
1:n:220:ASP:HB2	1:n:224:ASN:HD22	1.85	0.41
1:q:272:ASN:ND2	1:s:474:ALA:H	2.18	0.41
1:r:220:ASP:HB2	1:r:224:ASN:HD22	1.85	0.41
1:t:220:ASP:HB2	1:t:224:ASN:HD22	1.85	0.41
1:t:490:ARG:HB2	1:t:575:THR:HB	2.03	0.41
1:u:224:ASN:OD1	1:2:409:ASN:ND2	2.39	0.41
1:u:341:THR:HG22	1:u:406:ARG:HG3	2.02	0.41
1:u:531:ASP:HA	1:u:568:ARG:NH1	2.35	0.41
1:u:532:ASP:OD1	1:v:384:ASN:ND2	2.43	0.41
1:u:700:ILE:HA	1:1:703:THR:HG22	2.03	0.41
1:w:220:ASP:HB2	1:w:224:ASN:HD22	1.85	0.41
1:w:283:TYR:O	1:w:374:ILE:HG23	2.21	0.41
1:w:490:ARG:HB2	1:w:575:THR:HB	2.03	0.41
1:w:531:ASP:HA	1:w:568:ARG:NH1	2.35	0.41
1:z:528:THR:OG1	1:z:563:ASN:HB2	2.20	0.41
1:1:220:ASP:HB2	1:1:224:ASN:HD22	1.85	0.41
1:1:474:ALA:H	1:2:272:ASN:ND2	2.18	0.41
1:2:703:THR:HG22	1:4:701:GLN:H	1.70	0.41
1:3:272:ASN:ND2	1:4:474:ALA:H	2.18	0.41
1:3:283:TYR:O	1:3:374:ILE:HG23	2.21	0.41
1:5:283:TYR:O	1:5:374:ILE:HG23	2.21	0.41
1:8:220:ASP:HB2	1:8:224:ASN:HD22	1.85	0.41
1:B:474:ALA:H	1:J:272:ASN:ND2	2.18	0.41
1:B:531:ASP:HA	1:B:568:ARG:NH1	2.35	0.41
1:C:283:TYR:O	1:C:374:ILE:HG23	2.21	0.41
1:D:340:SER:HA	1:E:321:GLN:NE2	2.35	0.41
1:D:466:TYR:CD1	1:N:553:LYS:HG2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:691:GLU:OE2	1:D:693:SER:HB3	2.20	0.41
1:E:531:ASP:HA	1:E:568:ARG:NH1	2.35	0.41
1:H:691:GLU:OE2	1:H:693:SER:HB3	2.20	0.41
1:K:321:GLN:NE2	1:L:340:SER:HA	2.36	0.41
1:T:340:SER:HA	1:i:321:GLN:NE2	2.36	0.41
1:X:384:ASN:ND2	1:e:532:ASP:OD1	2.42	0.41
1:Y:321:GLN:NE2	1:4:340:SER:HA	2.36	0.41
1:a:283:TYR:O	1:a:374:ILE:HG23	2.21	0.41
1:b:321:GLN:NE2	1:o:340:SER:HA	2.36	0.41
1:f:474:ALA:H	1:h:272:ASN:ND2	2.18	0.41
1:j:490:ARG:HB2	1:j:575:THR:HB	2.03	0.41
1:k:340:SER:HA	1:w:321:GLN:NE2	2.36	0.41
1:l:691:GLU:OE2	1:l:693:SER:HB3	2.20	0.41
1:o:220:ASP:HB2	1:o:224:ASN:HD22	1.85	0.41
1:o:531:ASP:HA	1:o:568:ARG:NH1	2.35	0.41
1:p:691:GLU:OE2	1:p:693:SER:HB3	2.20	0.41
1:r:340:SER:HA	1:x:321:GLN:NE2	2.36	0.41
1:t:272:ASN:ND2	1:v:474:ALA:H	2.19	0.41
1:u:220:ASP:HB2	1:u:224:ASN:HD22	1.85	0.41
1:u:253:TYR:OH	1:u:374:ILE:O	2.35	0.41
1:z:340:SER:HA	1:4:321:GLN:NE2	2.36	0.41
1:z:474:ALA:H	1:1:272:ASN:ND2	2.19	0.41
1:1:531:ASP:HA	1:1:568:ARG:NH1	2.35	0.41
1:2:283:TYR:O	1:2:374:ILE:HG23	2.21	0.41
1:2:701:GLN:H	1:4:703:THR:HG22	1.70	0.41
1:4:220:ASP:HB2	1:4:224:ASN:HD22	1.85	0.41
1:6:283:TYR:O	1:6:374:ILE:HG23	2.21	0.41
1:B:283:TYR:O	1:B:374:ILE:HG23	2.21	0.40
1:B:340:SER:HA	1:C:321:GLN:NE2	2.36	0.40
1:D:474:ALA:H	1:N:272:ASN:ND2	2.19	0.40
1:D:582:SER:O	1:N:487:ARG:HD3	2.21	0.40
1:K:220:ASP:HB2	1:K:224:ASN:HD22	1.85	0.40
1:K:340:SER:HA	1:7:321:GLN:NE2	2.36	0.40
1:L:528:THR:OG1	1:L:563:ASN:HB2	2.20	0.40
1:M:283:TYR:O	1:M:374:ILE:HG23	2.21	0.40
1:O:340:SER:HA	1:d:321:GLN:NE2	2.36	0.40
1:O:474:ALA:H	1:m:272:ASN:ND2	2.18	0.40
1:O:532:ASP:OD1	1:m:384:ASN:ND2	2.42	0.40
1:Q:600:GLN:HG3	1:Q:601:GLY:O	2.22	0.40
1:R:340:SER:HA	1:V:321:GLN:NE2	2.36	0.40
1:S:220:ASP:HB2	1:S:224:ASN:HD22	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:321:GLN:NE2	1:d:340:SER:HA	2.36	0.40
1:T:490:ARG:HB2	1:T:575:THR:HB	2.03	0.40
1:V:691:GLU:OE2	1:V:693:SER:HB3	2.20	0.40
1:W:528:THR:OG1	1:W:563:ASN:HB2	2.20	0.40
1:X:531:ASP:HA	1:X:568:ARG:NH1	2.35	0.40
1:Y:220:ASP:HB2	1:Y:224:ASN:HD22	1.85	0.40
1:f:691:GLU:OE2	1:f:693:SER:HB3	2.20	0.40
1:g:283:TYR:O	1:g:374:ILE:HG23	2.21	0.40
1:h:283:TYR:O	1:h:374:ILE:HG23	2.21	0.40
1:j:531:ASP:HA	1:j:568:ARG:NH1	2.35	0.40
1:l:340:SER:HA	1:n:321:GLN:NE2	2.36	0.40
1:l:531:ASP:HA	1:l:568:ARG:NH1	2.35	0.40
1:2:290:HIS:HD2	1:2:366:PRO:HB3	1.82	0.40
1:6:479:ASN:ND2	1:7:357:GLY:O	2.52	0.40
1:6:528:THR:OG1	1:6:563:ASN:HB2	2.20	0.40
1:8:290:HIS:HD2	1:8:366:PRO:HB3	1.83	0.40
1:B:253:TYR:OH	1:B:374:ILE:O	2.35	0.40
1:B:703:THR:HG22	1:I:700:ILE:HA	2.04	0.40
1:D:240:VAL:HG13	1:D:686:TRP:HB2	2.04	0.40
1:E:434:ARG:HD3	1:E:434:ARG:HA	1.92	0.40
1:G:283:TYR:O	1:G:374:ILE:HG23	2.21	0.40
1:I:253:TYR:OH	1:I:374:ILE:O	2.35	0.40
1:J:283:TYR:O	1:J:374:ILE:HG23	2.21	0.40
1:M:600:GLN:HG3	1:M:601:GLY:O	2.22	0.40
1:Q:700:ILE:HA	1:R:703:THR:HG22	2.03	0.40
1:V:220:ASP:HB2	1:V:224:ASN:HD22	1.85	0.40
1:W:434:ARG:HD3	1:W:434:ARG:HA	1.92	0.40
1:X:340:SER:HA	1:f:321:GLN:NE2	2.36	0.40
1:Y:701:GLN:N	1:Z:703:THR:CG2	2.50	0.40
1:Z:290:HIS:HD2	1:Z:366:PRO:HB3	1.83	0.40
1:b:220:ASP:HB2	1:b:224:ASN:HD22	1.85	0.40
1:g:531:ASP:HA	1:g:568:ARG:NH1	2.35	0.40
1:g:703:THR:HG22	1:z:700:ILE:HA	2.03	0.40
1:h:600:GLN:HG3	1:h:601:GLY:O	2.22	0.40
1:i:487:ARG:HD3	1:k:582:SER:O	2.22	0.40
1:k:531:ASP:HA	1:k:568:ARG:NH1	2.35	0.40
1:m:490:ARG:HB2	1:m:575:THR:HB	2.03	0.40
1:o:434:ARG:HA	1:o:434:ARG:HD3	1.92	0.40
1:p:220:ASP:HB2	1:p:224:ASN:HD22	1.85	0.40
1:p:340:SER:HA	1:6:321:GLN:NE2	2.36	0.40
1:t:283:TYR:O	1:t:374:ILE:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:600:GLN:HG3	1:t:601:GLY:O	2.22	0.40
1:x:479:ASN:ND2	1:y:357:GLY:O	2.52	0.40
1:x:600:GLN:HG3	1:x:601:GLY:O	2.22	0.40
1:1:283:TYR:O	1:1:374:ILE:HG23	2.21	0.40
1:5:600:GLN:HG3	1:5:601:GLY:O	2.22	0.40
1:5:691:GLU:OE2	1:5:693:SER:HB3	2.20	0.40
1:8:487:ARG:NH2	1:8:598:ASN:OD1	2.49	0.40
1:A:405:LEU:HD21	1:A:411:PHE:HB2	2.04	0.40
1:D:531:ASP:HA	1:D:568:ARG:NH1	2.35	0.40
1:D:703:THR:HG22	1:M:701:GLN:H	1.70	0.40
1:H:490:ARG:O	1:Y:586:GLN:NE2	2.55	0.40
1:H:600:GLN:HG3	1:H:601:GLY:O	2.22	0.40
1:I:220:ASP:HB2	1:I:224:ASN:HD22	1.86	0.40
1:M:272:ASN:ND2	1:b:474:ALA:H	2.19	0.40
1:N:283:TYR:O	1:N:374:ILE:HG23	2.21	0.40
1:O:409:ASN:ND2	1:d:224:ASN:OD1	2.39	0.40
1:R:240:VAL:HG13	1:R:686:TRP:HB2	2.04	0.40
1:S:487:ARG:NH2	1:S:598:ASN:OD1	2.49	0.40
1:T:240:VAL:HG13	1:T:686:TRP:HB2	2.04	0.40
1:T:532:ASP:OD1	1:d:384:ASN:ND2	2.42	0.40
1:U:600:GLN:HG3	1:U:601:GLY:O	2.22	0.40
1:V:474:ALA:H	1:e:272:ASN:ND2	2.18	0.40
1:W:220:ASP:HB2	1:W:224:ASN:HD22	1.85	0.40
1:W:479:ASN:ND2	1:Y:357:GLY:O	2.52	0.40
1:c:490:ARG:O	1:p:586:GLN:NE2	2.55	0.40
1:c:532:ASP:OD1	1:o:384:ASN:ND2	2.42	0.40
1:c:600:GLN:HG3	1:c:601:GLY:O	2.22	0.40
1:f:220:ASP:HB2	1:f:224:ASN:HD22	1.85	0.40
1:g:701:GLN:H	1:z:703:THR:HG22	1.70	0.40
1:j:290:HIS:HD2	1:j:366:PRO:HB3	1.82	0.40
1:l:405:LEU:HD21	1:l:411:PHE:HB2	2.04	0.40
1:m:240:VAL:HG13	1:m:686:TRP:HB2	2.04	0.40
1:m:321:GLN:NE2	1:s:340:SER:HA	2.36	0.40
1:n:340:SER:HA	1:r:321:GLN:NE2	2.36	0.40
1:q:240:VAL:HG13	1:q:686:TRP:HB2	2.04	0.40
1:v:220:ASP:HB2	1:v:224:ASN:HD22	1.85	0.40
1:v:340:SER:HA	1:1:321:GLN:NE2	2.36	0.40
1:v:405:LEU:HD21	1:v:411:PHE:HB2	2.04	0.40
1:z:487:ARG:HD3	1:2:582:SER:O	2.21	0.40
1:1:253:TYR:OH	1:1:374:ILE:O	2.35	0.40
1:5:490:ARG:O	1:7:586:GLN:NE2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:531:ASP:HA	1:C:568:ARG:NH1	2.35	0.40
1:D:490:ARG:HB2	1:D:575:THR:HB	2.03	0.40
1:E:490:ARG:O	1:F:586:GLN:NE2	2.55	0.40
1:F:283:TYR:O	1:F:374:ILE:HG23	2.21	0.40
1:F:531:ASP:HA	1:F:568:ARG:NH1	2.35	0.40
1:G:600:GLN:HG3	1:G:601:GLY:O	2.22	0.40
1:J:582:SER:O	1:L:487:ARG:HD3	2.22	0.40
1:K:405:LEU:HD21	1:K:411:PHE:HB2	2.04	0.40
1:M:240:VAL:HG13	1:M:686:TRP:HB2	2.04	0.40
1:O:321:GLN:NE2	1:P:340:SER:HA	2.36	0.40
1:P:531:ASP:HA	1:P:568:ARG:NH1	2.35	0.40
1:Z:283:TYR:O	1:Z:374:ILE:HG23	2.21	0.40
1:Z:487:ARG:NH2	1:Z:598:ASN:OD1	2.49	0.40
1:b:240:VAL:HG13	1:b:686:TRP:HB2	2.04	0.40
1:c:384:ASN:ND2	1:p:532:ASP:OD1	2.43	0.40
1:e:600:GLN:HG3	1:e:601:GLY:O	2.22	0.40
1:e:703:THR:HG22	1:f:701:GLN:H	1.70	0.40
1:f:240:VAL:HG13	1:f:686:TRP:HB2	2.04	0.40
1:g:664:THR:H	1:k:373:MET:CE	2.34	0.40
1:h:240:VAL:HG13	1:h:686:TRP:HB2	2.04	0.40
1:i:253:TYR:OH	1:i:374:ILE:O	2.35	0.40
1:i:283:TYR:O	1:i:374:ILE:HG23	2.21	0.40
1:j:240:VAL:HG13	1:j:686:TRP:HB2	2.04	0.40
1:j:340:SER:HA	1:l:321:GLN:NE2	2.36	0.40
1:k:240:VAL:HG13	1:k:686:TRP:HB2	2.04	0.40
1:k:490:ARG:HB2	1:k:575:THR:HB	2.03	0.40
1:n:240:VAL:HG13	1:n:686:TRP:HB2	2.04	0.40
1:q:220:ASP:HB2	1:q:224:ASN:HD22	1.85	0.40
1:s:600:GLN:HG3	1:s:601:GLY:O	2.22	0.40
1:t:703:THR:HG22	1:5:700:ILE:HA	2.04	0.40
1:v:434:ARG:HA	1:v:434:ARG:HD3	1.92	0.40
1:v:490:ARG:HB2	1:v:575:THR:HB	2.03	0.40
1:w:487:ARG:HD3	1:y:582:SER:O	2.22	0.40
1:w:490:ARG:O	1:y:586:GLN:NE2	2.55	0.40
1:y:531:ASP:HA	1:y:568:ARG:NH1	2.35	0.40
1:A:220:ASP:HB2	1:A:224:ASN:HD22	1.85	0.40
1:A:490:ARG:HB2	1:A:575:THR:HB	2.03	0.40
1:C:240:VAL:HG13	1:C:686:TRP:HB2	2.04	0.40
1:D:405:LEU:HD21	1:D:411:PHE:HB2	2.04	0.40
1:E:487:ARG:HD3	1:F:582:SER:O	2.22	0.40
1:E:600:GLN:HG3	1:E:601:GLY:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:357:GLY:O	1:Q:479:ASN:ND2	2.52	0.40
1:J:290:HIS:HD2	1:J:366:PRO:HB3	1.82	0.40
1:K:691:GLU:OE2	1:K:693:SER:HB3	2.20	0.40
1:M:487:ARG:HD3	1:b:582:SER:O	2.21	0.40
1:N:483:GLY:HA3	1:N:608:TRP:HB3	2.04	0.40
1:N:582:SER:O	1:P:487:ARG:HD3	2.22	0.40
1:N:600:GLN:HG3	1:N:601:GLY:O	2.22	0.40
1:O:405:LEU:HD21	1:O:411:PHE:HB2	2.04	0.40
1:P:240:VAL:HG13	1:P:686:TRP:HB2	2.04	0.40
1:R:487:ARG:HD3	1:U:582:SER:O	2.22	0.40
1:S:490:ARG:HB2	1:S:575:THR:HB	2.03	0.40
1:T:321:GLN:NE2	1:U:340:SER:HA	2.36	0.40
1:U:434:ARG:HA	1:U:434:ARG:HD3	1.92	0.40
1:W:405:LEU:HD21	1:W:411:PHE:HB2	2.04	0.40
1:Z:600:GLN:HG3	1:Z:601:GLY:O	2.22	0.40
1:d:240:VAL:HG13	1:d:686:TRP:HB2	2.04	0.40
1:f:384:ASN:ND2	1:g:532:ASP:OD1	2.42	0.40
1:g:224:ASN:OD1	1:1:409:ASN:ND2	2.40	0.40
1:g:240:VAL:HG13	1:g:686:TRP:HB2	2.04	0.40
1:i:434:ARG:HA	1:i:434:ARG:HD3	1.92	0.40
1:i:582:SER:O	1:j:487:ARG:HD3	2.22	0.40
1:j:220:ASP:HB2	1:j:224:ASN:HD22	1.85	0.40
1:j:600:GLN:HG3	1:j:601:GLY:O	2.22	0.40
1:l:240:VAL:HG13	1:l:686:TRP:HB2	2.04	0.40
1:p:405:LEU:HD21	1:p:411:PHE:HB2	2.04	0.40
1:q:487:ARG:HD3	1:s:582:SER:O	2.22	0.40
1:r:487:ARG:NH2	1:r:598:ASN:OD1	2.49	0.40
1:r:490:ARG:HB2	1:r:575:THR:HB	2.03	0.40
1:t:487:ARG:HD3	1:v:582:SER:O	2.22	0.40
1:u:582:SER:O	1:v:487:ARG:HD3	2.22	0.40
1:2:405:LEU:HD21	1:2:411:PHE:HB2	2.04	0.40
1:4:405:LEU:HD21	1:4:411:PHE:HB2	2.04	0.40
1:4:691:GLU:OE2	1:4:693:SER:HB3	2.20	0.40
1:6:220:ASP:HB2	1:6:224:ASN:HD22	1.85	0.40
1:6:405:LEU:HD21	1:6:411:PHE:HB2	2.04	0.40
1:7:220:ASP:HB2	1:7:224:ASN:HD22	1.85	0.40
1:8:600:GLN:HG3	1:8:601:GLY:O	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	2	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	3	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	4	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	5	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	6	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	7	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	8	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	A	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	B	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	C	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	D	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	E	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	F	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	G	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	H	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	I	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	J	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	K	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	L	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	M	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	N	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	O	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	P	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	Q	519/520 (100%)	507 (98%)	12 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	S	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	T	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	U	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	V	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	W	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	X	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	Y	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	Z	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	a	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	b	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	c	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	d	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	e	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	f	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	g	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	h	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	i	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	j	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	k	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	l	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	m	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	n	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	o	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	p	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	q	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	r	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	s	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	t	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	u	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	v	519/520 (100%)	507 (98%)	12 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	x	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	y	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
1	z	519/520 (100%)	507 (98%)	12 (2%)	0	100	100
All	All	31140/31200 (100%)	30420 (98%)	720 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	2	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	3	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	4	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	5	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	6	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	7	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	8	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	A	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	B	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	C	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	D	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	E	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	F	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	G	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	H	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	I	452/452 (100%)	449 (99%)	3 (1%)	76	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	K	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	L	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	M	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	N	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	O	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	P	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	Q	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	R	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	S	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	T	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	U	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	V	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	W	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	X	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	Y	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	Z	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	a	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	b	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	c	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	d	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	e	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	f	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	g	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	h	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	i	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	j	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	k	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	l	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	m	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	n	452/452 (100%)	449 (99%)	3 (1%)	76	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	o	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	p	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	q	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	r	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	s	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	t	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	u	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	v	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	w	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	x	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	y	452/452 (100%)	449 (99%)	3 (1%)	76	87
1	z	452/452 (100%)	449 (99%)	3 (1%)	76	87
All	All	27120/27120 (100%)	26940 (99%)	180 (1%)	73	87

All (180) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	236	LEU
1	A	703	THR
1	A	704	SER
1	B	236	LEU
1	B	703	THR
1	B	704	SER
1	C	236	LEU
1	C	703	THR
1	C	704	SER
1	D	236	LEU
1	D	703	THR
1	D	704	SER
1	E	236	LEU
1	E	703	THR
1	E	704	SER
1	F	236	LEU
1	F	703	THR
1	F	704	SER
1	G	236	LEU
1	G	703	THR
1	G	704	SER

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Mol	Chain	Res	Type
1	H	236	LEU
1	H	703	THR
1	H	704	SER
1	I	236	LEU
1	I	703	THR
1	I	704	SER
1	J	236	LEU
1	J	703	THR
1	J	704	SER
1	K	236	LEU
1	K	703	THR
1	K	704	SER
1	L	236	LEU
1	L	703	THR
1	L	704	SER
1	M	236	LEU
1	M	703	THR
1	M	704	SER
1	N	236	LEU
1	N	703	THR
1	N	704	SER
1	O	236	LEU
1	O	703	THR
1	O	704	SER
1	P	236	LEU
1	P	703	THR
1	P	704	SER
1	Q	236	LEU
1	Q	703	THR
1	Q	704	SER
1	R	236	LEU
1	R	703	THR
1	R	704	SER
1	S	236	LEU
1	S	703	THR
1	S	704	SER
1	T	236	LEU
1	T	703	THR
1	T	704	SER
1	U	236	LEU
1	U	703	THR
1	U	704	SER

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Mol	Chain	Res	Type
1	V	236	LEU
1	V	703	THR
1	V	704	SER
1	W	236	LEU
1	W	703	THR
1	W	704	SER
1	X	236	LEU
1	X	703	THR
1	X	704	SER
1	Y	236	LEU
1	Y	703	THR
1	Y	704	SER
1	Z	236	LEU
1	Z	703	THR
1	Z	704	SER
1	a	236	LEU
1	a	703	THR
1	a	704	SER
1	b	236	LEU
1	b	703	THR
1	b	704	SER
1	c	236	LEU
1	c	703	THR
1	c	704	SER
1	d	236	LEU
1	d	703	THR
1	d	704	SER
1	e	236	LEU
1	e	703	THR
1	e	704	SER
1	f	236	LEU
1	f	703	THR
1	f	704	SER
1	g	236	LEU
1	g	703	THR
1	g	704	SER
1	h	236	LEU
1	h	703	THR
1	h	704	SER
1	i	236	LEU
1	i	703	THR
1	i	704	SER

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Mol	Chain	Res	Type
1	j	236	LEU
1	j	703	THR
1	j	704	SER
1	k	236	LEU
1	k	703	THR
1	k	704	SER
1	l	236	LEU
1	l	703	THR
1	l	704	SER
1	m	236	LEU
1	m	703	THR
1	m	704	SER
1	n	236	LEU
1	n	703	THR
1	n	704	SER
1	o	236	LEU
1	o	703	THR
1	o	704	SER
1	p	236	LEU
1	p	703	THR
1	p	704	SER
1	q	236	LEU
1	q	703	THR
1	q	704	SER
1	r	236	LEU
1	r	703	THR
1	r	704	SER
1	s	236	LEU
1	s	703	THR
1	s	704	SER
1	t	236	LEU
1	t	703	THR
1	t	704	SER
1	u	236	LEU
1	u	703	THR
1	u	704	SER
1	v	236	LEU
1	v	703	THR
1	v	704	SER
1	w	236	LEU
1	w	703	THR
1	w	704	SER

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Mol	Chain	Res	Type
1	x	236	LEU
1	x	703	THR
1	x	704	SER
1	y	236	LEU
1	y	703	THR
1	y	704	SER
1	z	236	LEU
1	z	703	THR
1	z	704	SER
1	1	236	LEU
1	1	703	THR
1	1	704	SER
1	2	236	LEU
1	2	703	THR
1	2	704	SER
1	3	236	LEU
1	3	703	THR
1	3	704	SER
1	4	236	LEU
1	4	703	THR
1	4	704	SER
1	5	236	LEU
1	5	703	THR
1	5	704	SER
1	6	236	LEU
1	6	703	THR
1	6	704	SER
1	7	236	LEU
1	7	703	THR
1	7	704	SER
1	8	236	LEU
1	8	703	THR
1	8	704	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (468) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	256	HIS
1	A	290	HIS
1	A	321	GLN
1	A	428	HIS
1	A	430	GLN

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Mol	Chain	Res	Type
1	A	558	ASN
1	A	647	GLN
1	B	256	HIS
1	B	260	GLN
1	B	290	HIS
1	B	321	GLN
1	B	428	HIS
1	B	430	GLN
1	B	558	ASN
1	B	647	GLN
1	C	256	HIS
1	C	290	HIS
1	C	321	GLN
1	C	428	HIS
1	C	430	GLN
1	C	479	ASN
1	C	558	ASN
1	C	647	GLN
1	D	256	HIS
1	D	290	HIS
1	D	321	GLN
1	D	428	HIS
1	D	430	GLN
1	D	479	ASN
1	D	558	ASN
1	D	643	HIS
1	D	647	GLN
1	E	256	HIS
1	E	290	HIS
1	E	321	GLN
1	E	428	HIS
1	E	430	GLN
1	E	558	ASN
1	E	647	GLN
1	F	256	HIS
1	F	290	HIS
1	F	321	GLN
1	F	428	HIS
1	F	430	GLN
1	F	479	ASN
1	F	558	ASN
1	F	625	HIS

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Mol	Chain	Res	Type
1	F	647	GLN
1	G	256	HIS
1	G	290	HIS
1	G	321	GLN
1	G	428	HIS
1	G	430	GLN
1	G	558	ASN
1	G	647	GLN
1	H	256	HIS
1	H	290	HIS
1	H	321	GLN
1	H	428	HIS
1	H	430	GLN
1	H	558	ASN
1	H	647	GLN
1	I	256	HIS
1	I	290	HIS
1	I	321	GLN
1	I	428	HIS
1	I	430	GLN
1	I	558	ASN
1	I	647	GLN
1	J	256	HIS
1	J	290	HIS
1	J	321	GLN
1	J	428	HIS
1	J	430	GLN
1	J	479	ASN
1	J	558	ASN
1	J	647	GLN
1	K	256	HIS
1	K	290	HIS
1	K	321	GLN
1	K	428	HIS
1	K	430	GLN
1	K	558	ASN
1	K	647	GLN
1	L	256	HIS
1	L	290	HIS
1	L	321	GLN
1	L	428	HIS
1	L	430	GLN

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Mol	Chain	Res	Type
1	L	558	ASN
1	L	647	GLN
1	M	256	HIS
1	M	290	HIS
1	M	321	GLN
1	M	428	HIS
1	M	430	GLN
1	M	479	ASN
1	M	558	ASN
1	M	643	HIS
1	M	647	GLN
1	N	256	HIS
1	N	290	HIS
1	N	321	GLN
1	N	428	HIS
1	N	430	GLN
1	N	558	ASN
1	N	647	GLN
1	O	256	HIS
1	O	290	HIS
1	O	321	GLN
1	O	428	HIS
1	O	430	GLN
1	O	558	ASN
1	O	647	GLN
1	P	256	HIS
1	P	290	HIS
1	P	321	GLN
1	P	428	HIS
1	P	430	GLN
1	P	479	ASN
1	P	558	ASN
1	P	625	HIS
1	P	647	GLN
1	Q	256	HIS
1	Q	290	HIS
1	Q	321	GLN
1	Q	428	HIS
1	Q	430	GLN
1	Q	558	ASN
1	Q	647	GLN
1	R	256	HIS

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Mol	Chain	Res	Type
1	R	290	HIS
1	R	321	GLN
1	R	428	HIS
1	R	430	GLN
1	R	558	ASN
1	R	647	GLN
1	S	256	HIS
1	S	290	HIS
1	S	321	GLN
1	S	428	HIS
1	S	430	GLN
1	S	558	ASN
1	S	643	HIS
1	S	647	GLN
1	T	256	HIS
1	T	290	HIS
1	T	321	GLN
1	T	428	HIS
1	T	430	GLN
1	T	558	ASN
1	T	647	GLN
1	U	256	HIS
1	U	290	HIS
1	U	321	GLN
1	U	428	HIS
1	U	430	GLN
1	U	558	ASN
1	U	647	GLN
1	V	256	HIS
1	V	290	HIS
1	V	321	GLN
1	V	428	HIS
1	V	430	GLN
1	V	479	ASN
1	V	558	ASN
1	V	647	GLN
1	W	256	HIS
1	W	290	HIS
1	W	321	GLN
1	W	428	HIS
1	W	430	GLN
1	W	558	ASN

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Mol	Chain	Res	Type
1	W	625	HIS
1	W	647	GLN
1	X	256	HIS
1	X	290	HIS
1	X	321	GLN
1	X	428	HIS
1	X	430	GLN
1	X	479	ASN
1	X	558	ASN
1	X	647	GLN
1	Y	256	HIS
1	Y	290	HIS
1	Y	321	GLN
1	Y	428	HIS
1	Y	430	GLN
1	Y	558	ASN
1	Y	625	HIS
1	Y	647	GLN
1	Z	256	HIS
1	Z	260	GLN
1	Z	290	HIS
1	Z	321	GLN
1	Z	428	HIS
1	Z	430	GLN
1	Z	479	ASN
1	Z	558	ASN
1	Z	647	GLN
1	a	256	HIS
1	a	290	HIS
1	a	321	GLN
1	a	428	HIS
1	a	430	GLN
1	a	558	ASN
1	a	647	GLN
1	b	256	HIS
1	b	290	HIS
1	b	321	GLN
1	b	428	HIS
1	b	430	GLN
1	b	479	ASN
1	b	558	ASN
1	b	643	HIS

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Mol	Chain	Res	Type
1	b	647	GLN
1	c	256	HIS
1	c	290	HIS
1	c	321	GLN
1	c	428	HIS
1	c	430	GLN
1	c	558	ASN
1	c	647	GLN
1	d	256	HIS
1	d	290	HIS
1	d	321	GLN
1	d	428	HIS
1	d	430	GLN
1	d	558	ASN
1	d	643	HIS
1	d	647	GLN
1	e	256	HIS
1	e	290	HIS
1	e	321	GLN
1	e	428	HIS
1	e	430	GLN
1	e	479	ASN
1	e	558	ASN
1	e	647	GLN
1	f	256	HIS
1	f	290	HIS
1	f	321	GLN
1	f	428	HIS
1	f	430	GLN
1	f	558	ASN
1	f	647	GLN
1	g	256	HIS
1	g	290	HIS
1	g	321	GLN
1	g	428	HIS
1	g	430	GLN
1	g	479	ASN
1	g	558	ASN
1	g	647	GLN
1	h	256	HIS
1	h	290	HIS
1	h	321	GLN

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Mol	Chain	Res	Type
1	h	428	HIS
1	h	430	GLN
1	h	479	ASN
1	h	558	ASN
1	h	643	HIS
1	h	647	GLN
1	i	256	HIS
1	i	290	HIS
1	i	321	GLN
1	i	428	HIS
1	i	430	GLN
1	i	558	ASN
1	i	647	GLN
1	j	256	HIS
1	j	290	HIS
1	j	321	GLN
1	j	428	HIS
1	j	430	GLN
1	j	479	ASN
1	j	558	ASN
1	j	625	HIS
1	j	647	GLN
1	k	256	HIS
1	k	290	HIS
1	k	321	GLN
1	k	428	HIS
1	k	430	GLN
1	k	479	ASN
1	k	558	ASN
1	k	643	HIS
1	k	647	GLN
1	l	256	HIS
1	l	290	HIS
1	l	321	GLN
1	l	428	HIS
1	l	430	GLN
1	l	558	ASN
1	l	647	GLN
1	m	256	HIS
1	m	290	HIS
1	m	321	GLN
1	m	428	HIS

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Mol	Chain	Res	Type
1	m	430	GLN
1	m	479	ASN
1	m	558	ASN
1	m	643	HIS
1	m	647	GLN
1	n	256	HIS
1	n	290	HIS
1	n	321	GLN
1	n	428	HIS
1	n	430	GLN
1	n	558	ASN
1	n	643	HIS
1	n	647	GLN
1	o	256	HIS
1	o	290	HIS
1	o	321	GLN
1	o	428	HIS
1	o	430	GLN
1	o	479	ASN
1	o	558	ASN
1	o	647	GLN
1	p	256	HIS
1	p	290	HIS
1	p	321	GLN
1	p	428	HIS
1	p	430	GLN
1	p	479	ASN
1	p	558	ASN
1	p	647	GLN
1	q	256	HIS
1	q	290	HIS
1	q	321	GLN
1	q	428	HIS
1	q	430	GLN
1	q	558	ASN
1	q	647	GLN
1	r	256	HIS
1	r	290	HIS
1	r	321	GLN
1	r	428	HIS
1	r	430	GLN
1	r	558	ASN

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Mol	Chain	Res	Type
1	r	643	HIS
1	r	647	GLN
1	s	256	HIS
1	s	290	HIS
1	s	321	GLN
1	s	428	HIS
1	s	430	GLN
1	s	558	ASN
1	s	647	GLN
1	t	256	HIS
1	t	290	HIS
1	t	321	GLN
1	t	428	HIS
1	t	430	GLN
1	t	558	ASN
1	t	643	HIS
1	t	647	GLN
1	u	256	HIS
1	u	290	HIS
1	u	321	GLN
1	u	428	HIS
1	u	430	GLN
1	u	479	ASN
1	u	558	ASN
1	u	647	GLN
1	v	256	HIS
1	v	290	HIS
1	v	321	GLN
1	v	428	HIS
1	v	430	GLN
1	v	558	ASN
1	v	647	GLN
1	w	256	HIS
1	w	290	HIS
1	w	321	GLN
1	w	428	HIS
1	w	430	GLN
1	w	558	ASN
1	w	647	GLN
1	x	256	HIS
1	x	290	HIS
1	x	321	GLN

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Mol	Chain	Res	Type
1	x	428	HIS
1	x	430	GLN
1	x	558	ASN
1	x	647	GLN
1	y	256	HIS
1	y	290	HIS
1	y	321	GLN
1	y	428	HIS
1	y	430	GLN
1	y	479	ASN
1	y	558	ASN
1	y	625	HIS
1	y	647	GLN
1	z	256	HIS
1	z	290	HIS
1	z	321	GLN
1	z	428	HIS
1	z	430	GLN
1	z	558	ASN
1	z	647	GLN
1	1	256	HIS
1	1	260	GLN
1	1	290	HIS
1	1	321	GLN
1	1	428	HIS
1	1	430	GLN
1	1	558	ASN
1	1	647	GLN
1	2	256	HIS
1	2	290	HIS
1	2	321	GLN
1	2	428	HIS
1	2	430	GLN
1	2	479	ASN
1	2	558	ASN
1	2	647	GLN
1	3	256	HIS
1	3	290	HIS
1	3	321	GLN
1	3	428	HIS
1	3	430	GLN
1	3	558	ASN

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Mol	Chain	Res	Type
1	3	647	GLN
1	4	256	HIS
1	4	290	HIS
1	4	321	GLN
1	4	428	HIS
1	4	430	GLN
1	4	479	ASN
1	4	558	ASN
1	4	647	GLN
1	5	256	HIS
1	5	260	GLN
1	5	290	HIS
1	5	321	GLN
1	5	428	HIS
1	5	430	GLN
1	5	558	ASN
1	5	647	GLN
1	6	256	HIS
1	6	290	HIS
1	6	321	GLN
1	6	428	HIS
1	6	430	GLN
1	6	558	ASN
1	6	625	HIS
1	6	647	GLN
1	7	256	HIS
1	7	260	GLN
1	7	290	HIS
1	7	321	GLN
1	7	428	HIS
1	7	430	GLN
1	7	558	ASN
1	7	625	HIS
1	7	647	GLN
1	8	256	HIS
1	8	260	GLN
1	8	290	HIS
1	8	321	GLN
1	8	428	HIS
1	8	430	GLN
1	8	479	ASN
1	8	558	ASN

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Mol	Chain	Res	Type
1	8	647	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

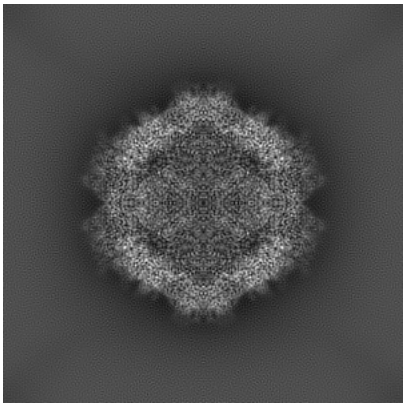
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23189. These allow visual inspection of the internal detail of the map and identification of artifacts.

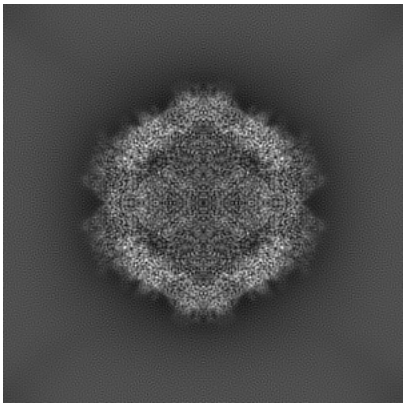
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

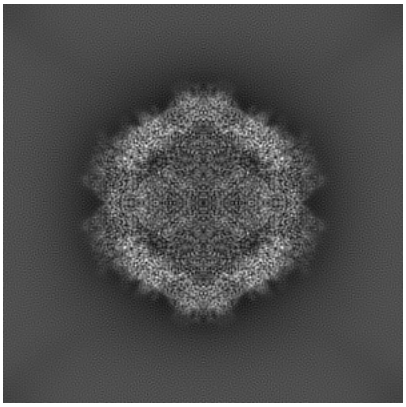
6.1.1 Primary map



X



Y

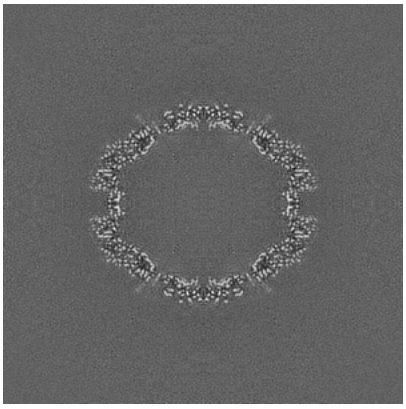


Z

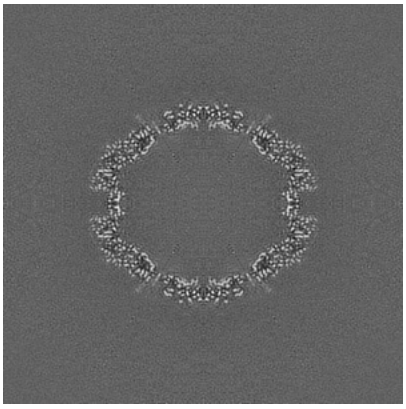
The images above show the map projected in three orthogonal directions.

6.2 Central slices

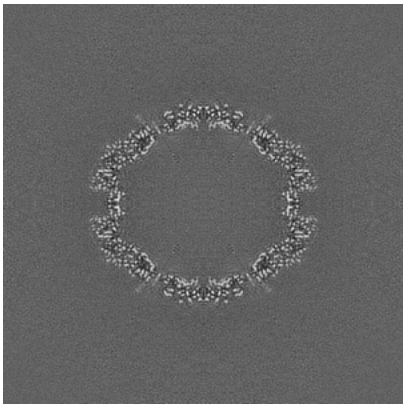
6.2.1 Primary map



X Index: 210



Y Index: 210

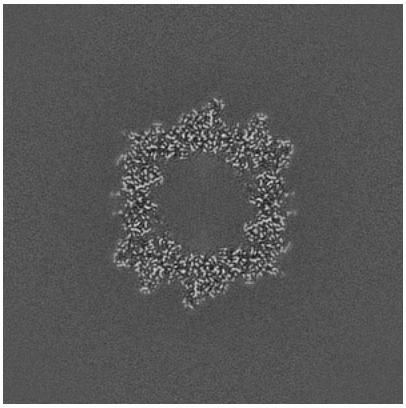


Z Index: 210

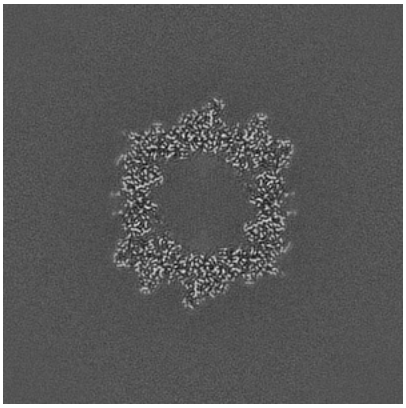
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

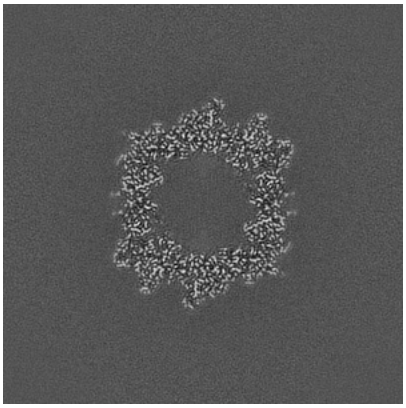
6.3.1 Primary map



X Index: 271



Y Index: 271

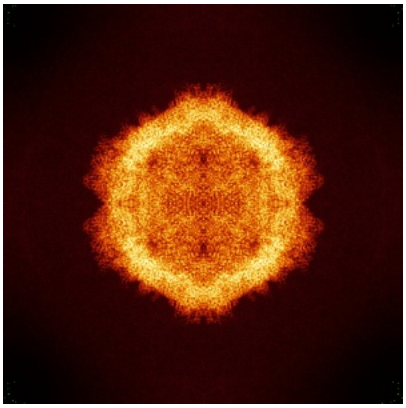


Z Index: 271

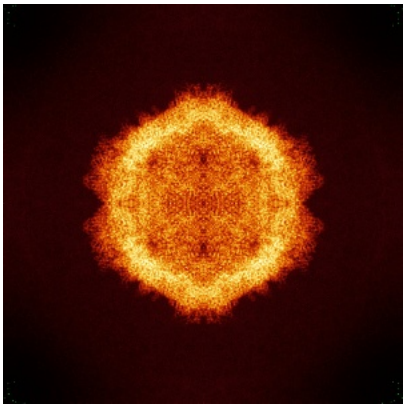
The images above show the largest variance slices of the map in three orthogonal directions.

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

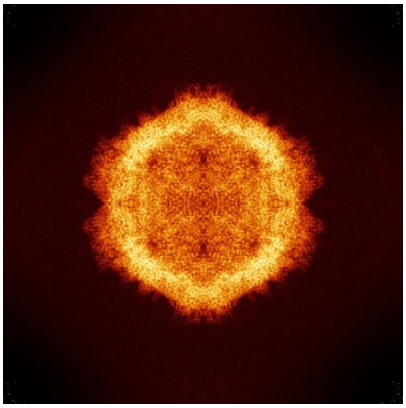
6.4.1 Primary map



X



Y

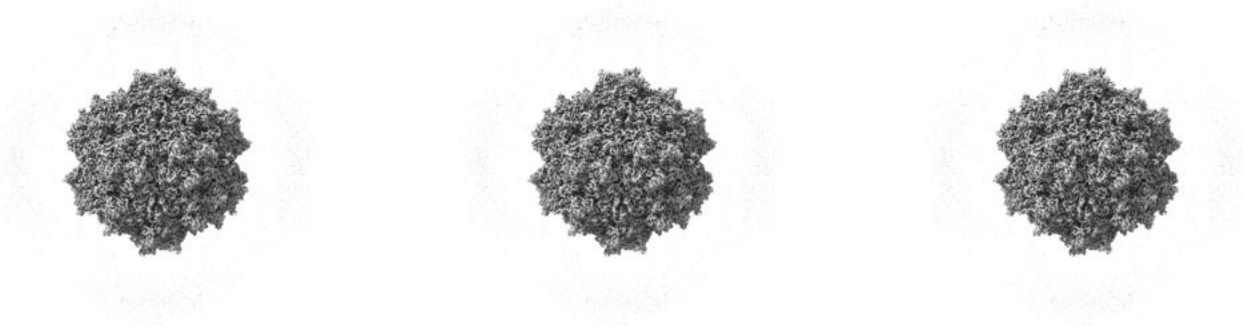


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

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

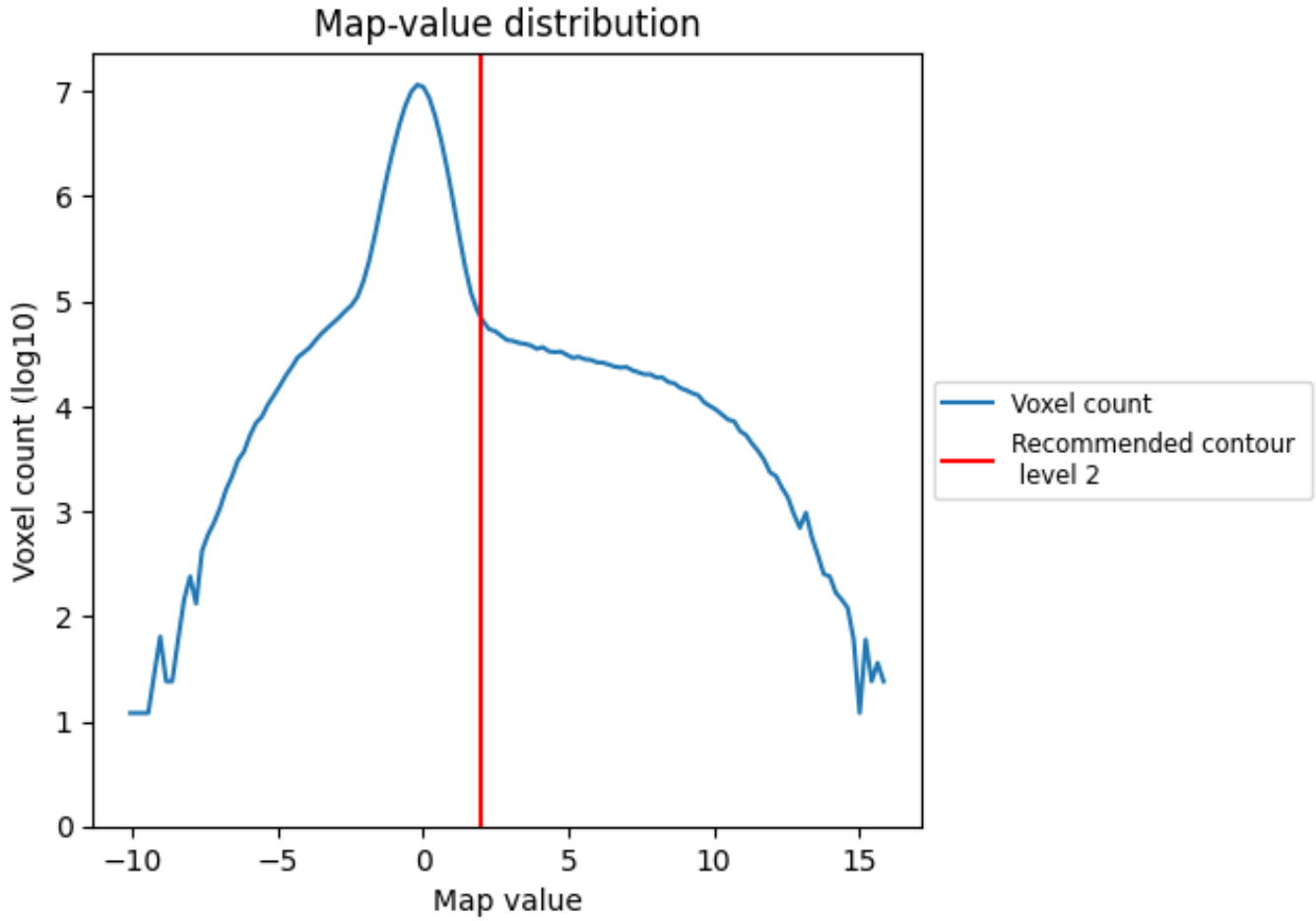
6.6 Mask visualisation (i)

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

7 Map analysis

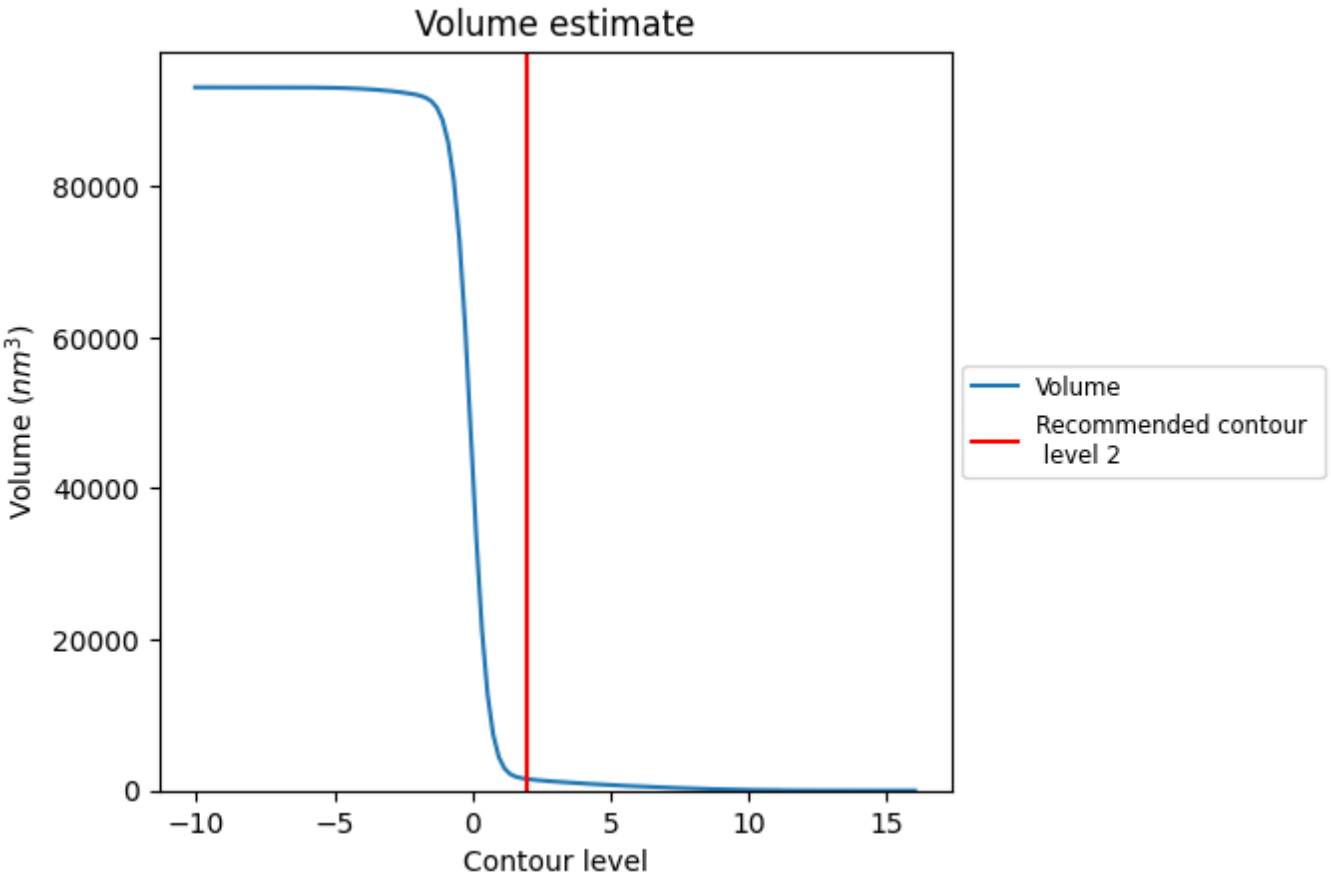
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

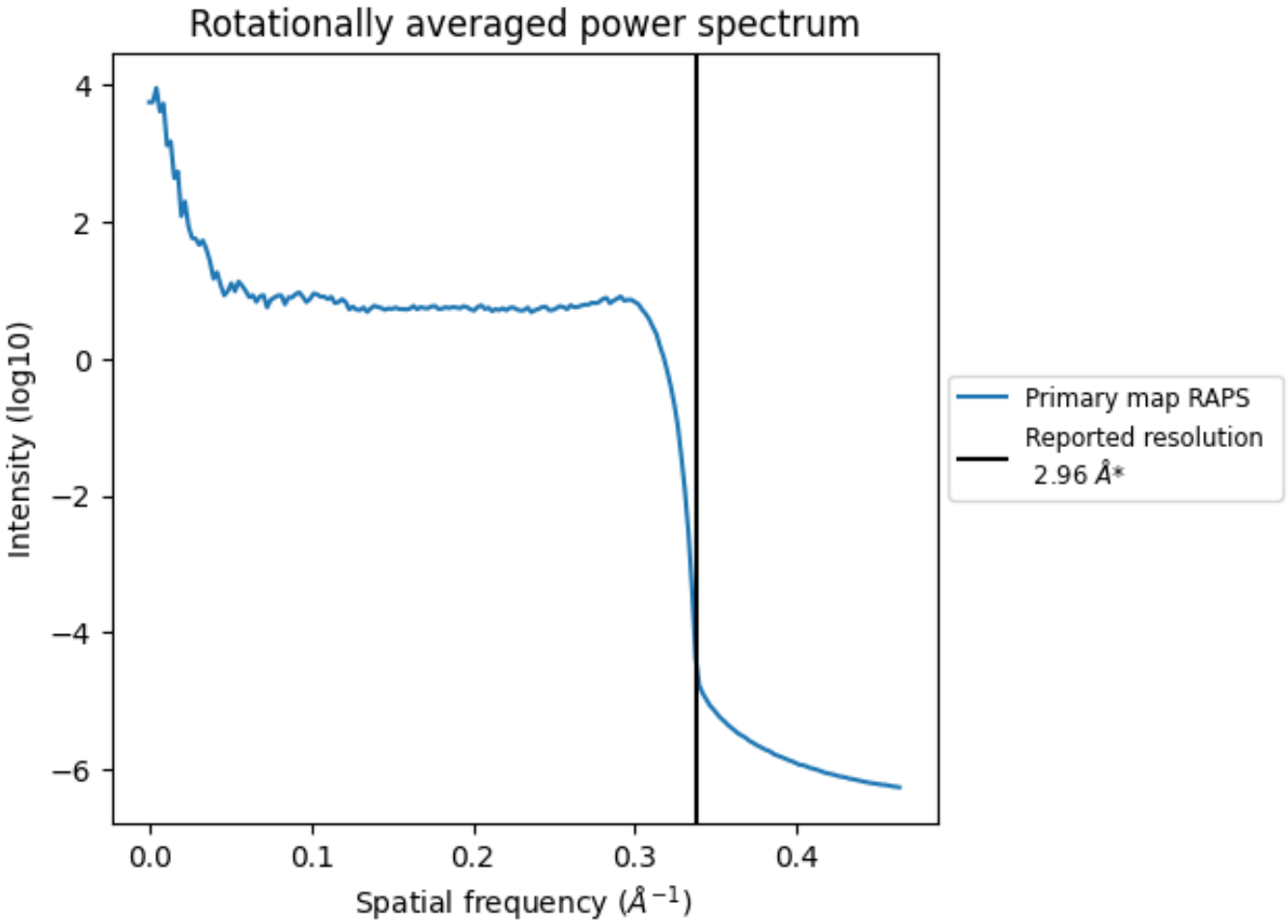
7.2 Volume estimate



The volume at the recommended contour level is 1518 nm^3; this corresponds to an approximate mass of 1372 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.338 $Å^{-1}$

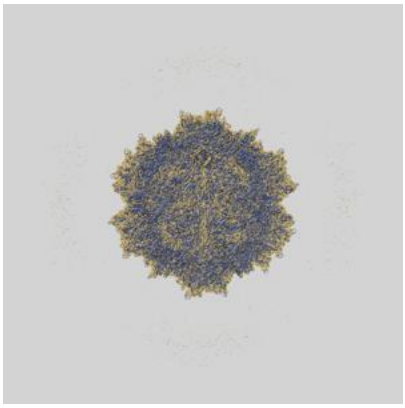
8 Fourier-Shell correlation (i)

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

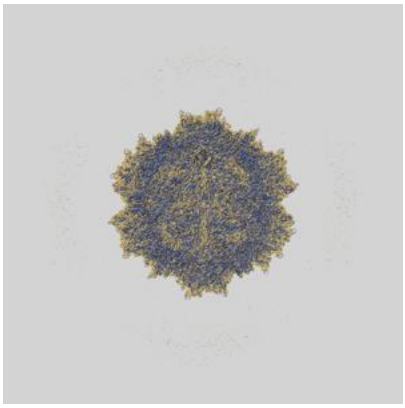
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23189 and PDB model 7L5Q. Per-residue inclusion information can be found in section 3 on page 10.

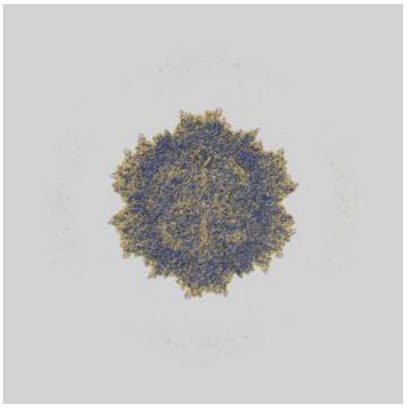
9.1 Map-model overlay



X



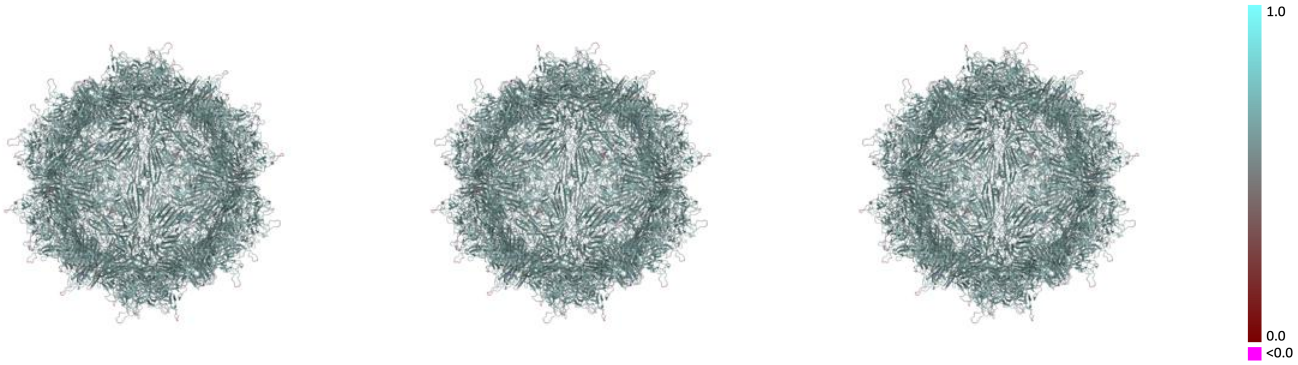
Y



Z

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

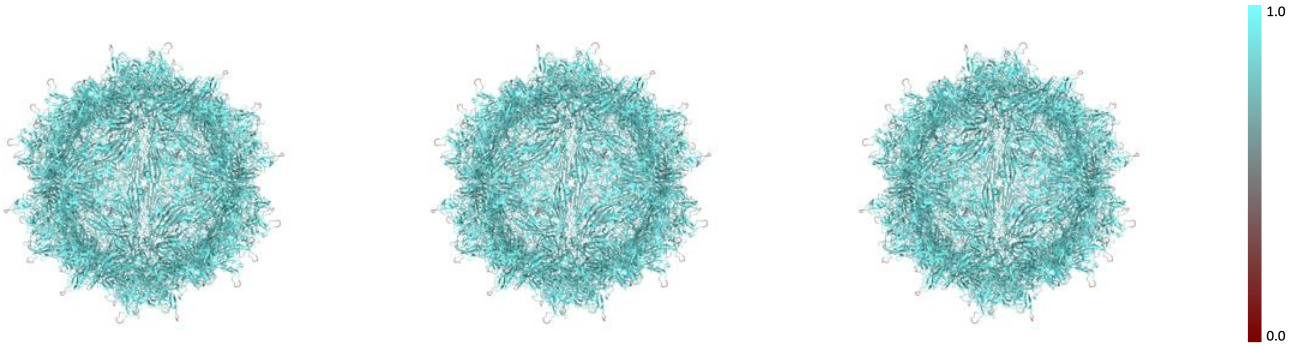
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

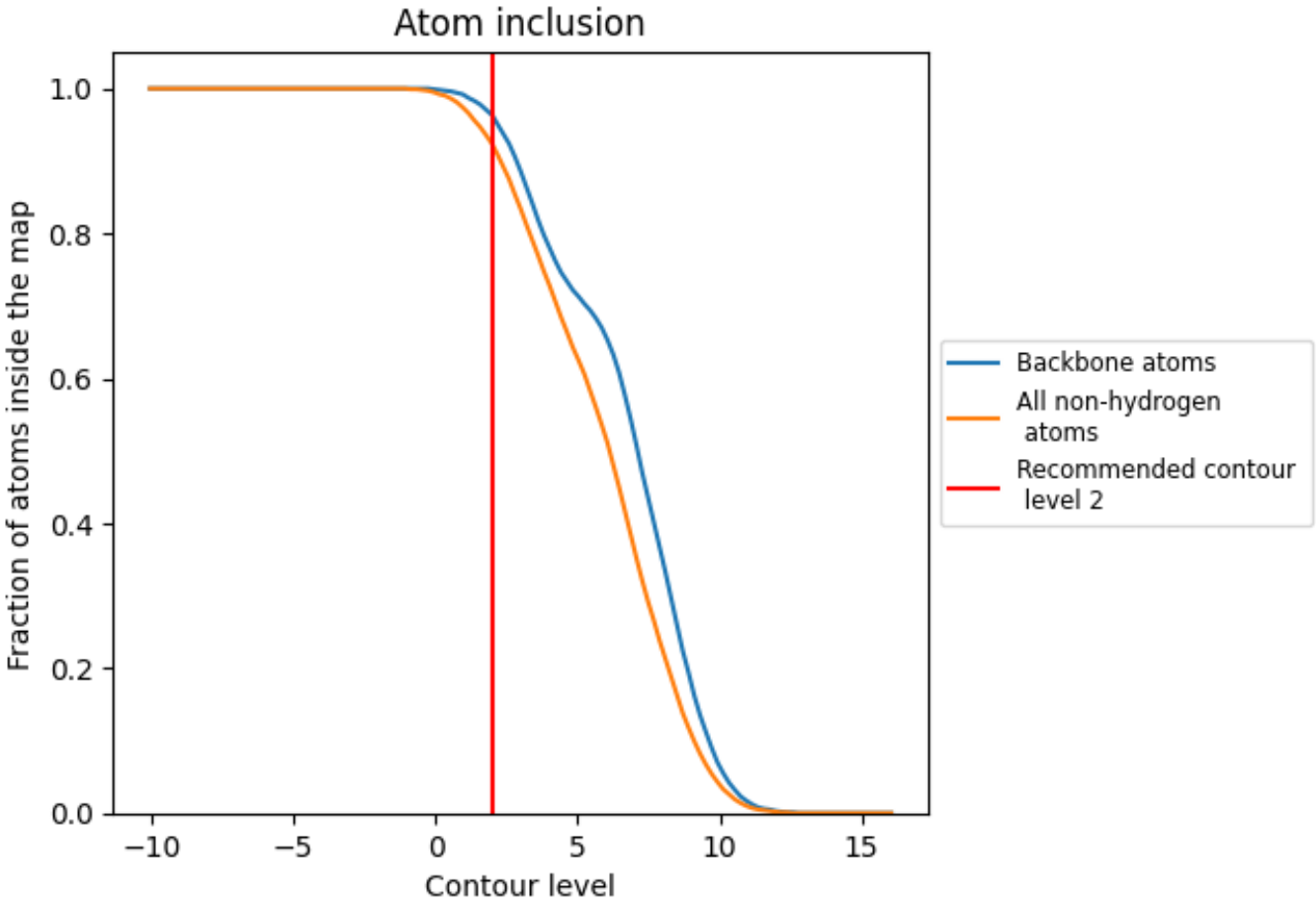
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 96% of all backbone atoms, 92% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

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

Chain	Atom inclusion	Q-score
All	0.9230	0.5960
1	0.9240	0.5960
2	0.9240	0.5950
3	0.9220	0.5970
4	0.9220	0.5970
5	0.9220	0.5970
6	0.9220	0.5960
7	0.9220	0.5960
8	0.9240	0.5970
A	0.9230	0.5970
B	0.9250	0.5950
C	0.9230	0.5960
D	0.9210	0.5960
E	0.9240	0.5970
F	0.9220	0.5960
G	0.9240	0.5960
H	0.9220	0.5970
I	0.9220	0.5970
J	0.9240	0.5970
K	0.9220	0.5960
L	0.9240	0.5970
M	0.9240	0.5970
N	0.9220	0.5960
O	0.9240	0.5970
P	0.9220	0.5960
Q	0.9220	0.5970
R	0.9250	0.5960
S	0.9240	0.5960
T	0.9220	0.5960
U	0.9240	0.5970
V	0.9210	0.5970
W	0.9220	0.5970
X	0.9240	0.5960
Y	0.9220	0.5960
Z	0.9240	0.5960

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Chain	Atom inclusion	Q-score
a	0.9220	0.5960
b	0.9220	0.5970
c	0.9220	0.5970
d	0.9220	0.5970
e	0.9220	0.5960
f	0.9220	0.5970
g	0.9220	0.5970
h	0.9240	0.5970
i	0.9220	0.5960
j	0.9220	0.5960
k	0.9220	0.5960
l	0.9240	0.5970
m	0.9220	0.5970
n	0.9220	0.5970
o	0.9240	0.5970
p	0.9220	0.5960
q	0.9250	0.5950
r	0.9240	0.5960
s	0.9240	0.5960
t	0.9240	0.5970
u	0.9220	0.5960
v	0.9220	0.5970
w	0.9240	0.5960
x	0.9220	0.5960
y	0.9220	0.5960
z	0.9240	0.5960