



Full wwPDB EM Validation Report ⓘ

May 6, 2025 – 02:05 AM EDT

PDB ID : 6WFT / pdb_00006wft
EMDB ID : EMD-21656
Title : BatAAV-10HB - genome-containing particles
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-04-04
Resolution : 3.03 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.dev118
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

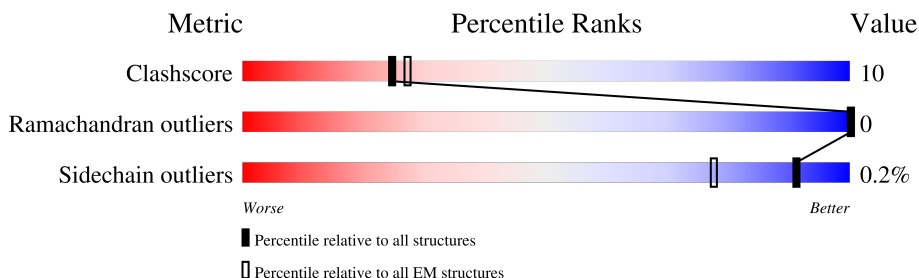
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY








The reported resolution of this entry is 3.03 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.




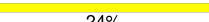
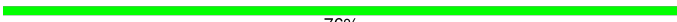
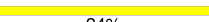

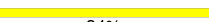

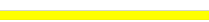

















Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	1	513	
1	2	513	
1	3	513	
1	4	513	
1	5	513	
1	6	513	
1	7	513	
1	8	513	


























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Mol	Chain	Length	Quality of chain	
1	A	513		76% 24%
1	B	513		76% 24%
1	C	513		76% 24%
1	D	513		76% 24%
1	E	513		77% 23%
1	F	513		77% 23%
1	G	513		76% 24%
1	H	513		76% 24%
1	I	513		76% 23%
1	J	513		77% 23%
1	K	513		76% 24%
1	L	513		77% 23%
1	M	513		75% 24%
1	N	513		77% 22%
1	O	513		77% 22%
1	P	513		76% 24%
1	Q	513		77% 23%
1	R	513		76% 24%
1	S	513		76% 24%
1	T	513		76% 24%
1	U	513		76% 23%
1	V	513		75% 25%
1	W	513		75% 25%
1	X	513		77% 23%
1	Y	513		76% 24%

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Mol	Chain	Length	Quality of chain
1	Z	513	 76%24%
1	a	513	 75%25%
1	b	513	 75%24%
1	c	513	 77%23%
1	d	513	 76%23%
1	e	513	 77%23%
1	f	513	 76%24%
1	g	513	 77%23%
1	h	513	 75%25%
1	i	513	 77%23%
1	j	513	 75%25%
1	k	513	 76%23%
1	l	513	 77%23%
1	m	513	 76%23%
1	n	513	 76%24%
1	o	513	 76%23%
1	p	513	 76%24%
1	q	513	 76%24%
1	r	513	 76%24%
1	s	513	 76%24%
1	t	513	 75%25%
1	u	513	 76%24%
1	v	513	 75%25%
1	w	513	 76%24%
1	x	513	 75%24%

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Mol	Chain	Length	Quality of chain
1	y	513	<div><div></div><div>76%</div><div>24%</div></div>
1	z	513	<div><div></div><div>76%</div><div>24%</div></div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 247080 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 VP1 capsid.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	B	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	C	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	D	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	E	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	F	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	G	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	H	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	I	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	J	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	K	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	L	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	M	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	N	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	O	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	P	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	Q	513	Total 4097	C 2598	N 717	O 765	S 17	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	S	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	T	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	U	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	V	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	W	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	X	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	Y	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	Z	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	a	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	b	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	c	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	d	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	e	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	f	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	g	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	h	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	i	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	j	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	k	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	l	513	Total 4097	C 2598	N 717	O 765	S 17	3	0

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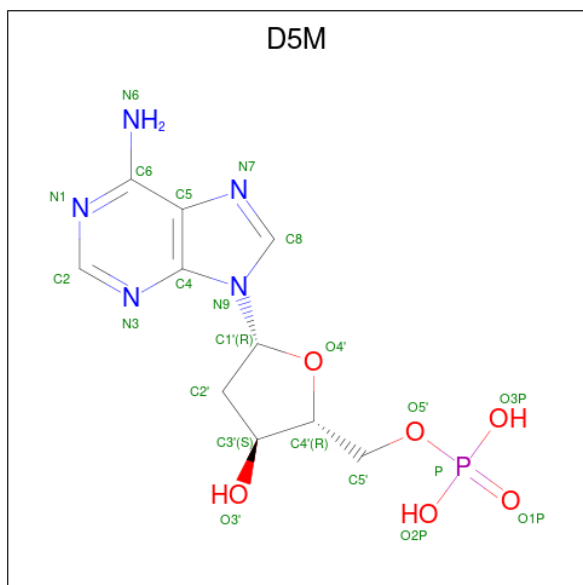
Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	n	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	o	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	p	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	q	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	r	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	s	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	t	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	u	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	v	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	w	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	x	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	y	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	z	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	1	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	2	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	3	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	4	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	5	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	6	513	Total 4097	C 2598	N 717	O 765	S 17	3	0
1	7	513	Total 4097	C 2598	N 717	O 765	S 17	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	513	Total	C	N	O	S	3	0
			4097	2598	717	765	17		

- Molecule 2 is 2'-DEOXYADENOSINE-5'-MONOPHOSPHATE (CCD ID: D5M) (formula: $C_{10}H_{14}N_5O_6P$).



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	B	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	C	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	D	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	E	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	F	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	G	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	H	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	I	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	J	1	Total	C	N	O	P	0
			21	10	5	5	1	

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Mol	Chain	Residues	Atoms					AltConf
2	K	1	Total 21	C 10	N 5	O 5	P 1	0
2	L	1	Total 21	C 10	N 5	O 5	P 1	0
2	M	1	Total 21	C 10	N 5	O 5	P 1	0
2	N	1	Total 21	C 10	N 5	O 5	P 1	0
2	O	1	Total 21	C 10	N 5	O 5	P 1	0
2	P	1	Total 21	C 10	N 5	O 5	P 1	0
2	Q	1	Total 21	C 10	N 5	O 5	P 1	0
2	R	1	Total 21	C 10	N 5	O 5	P 1	0
2	S	1	Total 21	C 10	N 5	O 5	P 1	0
2	T	1	Total 21	C 10	N 5	O 5	P 1	0
2	U	1	Total 21	C 10	N 5	O 5	P 1	0
2	V	1	Total 21	C 10	N 5	O 5	P 1	0
2	W	1	Total 21	C 10	N 5	O 5	P 1	0
2	X	1	Total 21	C 10	N 5	O 5	P 1	0
2	Y	1	Total 21	C 10	N 5	O 5	P 1	0
2	Z	1	Total 21	C 10	N 5	O 5	P 1	0
2	a	1	Total 21	C 10	N 5	O 5	P 1	0
2	b	1	Total 21	C 10	N 5	O 5	P 1	0
2	c	1	Total 21	C 10	N 5	O 5	P 1	0
2	d	1	Total 21	C 10	N 5	O 5	P 1	0
2	e	1	Total 21	C 10	N 5	O 5	P 1	0

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Mol	Chain	Residues	Atoms					AltConf
2	f	1	Total 21	C 10	N 5	O 5	P 1	0
2	g	1	Total 21	C 10	N 5	O 5	P 1	0
2	h	1	Total 21	C 10	N 5	O 5	P 1	0
2	i	1	Total 21	C 10	N 5	O 5	P 1	0
2	j	1	Total 21	C 10	N 5	O 5	P 1	0
2	k	1	Total 21	C 10	N 5	O 5	P 1	0
2	l	1	Total 21	C 10	N 5	O 5	P 1	0
2	m	1	Total 21	C 10	N 5	O 5	P 1	0
2	n	1	Total 21	C 10	N 5	O 5	P 1	0
2	o	1	Total 21	C 10	N 5	O 5	P 1	0
2	p	1	Total 21	C 10	N 5	O 5	P 1	0
2	q	1	Total 21	C 10	N 5	O 5	P 1	0
2	r	1	Total 21	C 10	N 5	O 5	P 1	0
2	s	1	Total 21	C 10	N 5	O 5	P 1	0
2	t	1	Total 21	C 10	N 5	O 5	P 1	0
2	u	1	Total 21	C 10	N 5	O 5	P 1	0
2	v	1	Total 21	C 10	N 5	O 5	P 1	0
2	w	1	Total 21	C 10	N 5	O 5	P 1	0
2	x	1	Total 21	C 10	N 5	O 5	P 1	0
2	y	1	Total 21	C 10	N 5	O 5	P 1	0
2	z	1	Total 21	C 10	N 5	O 5	P 1	0

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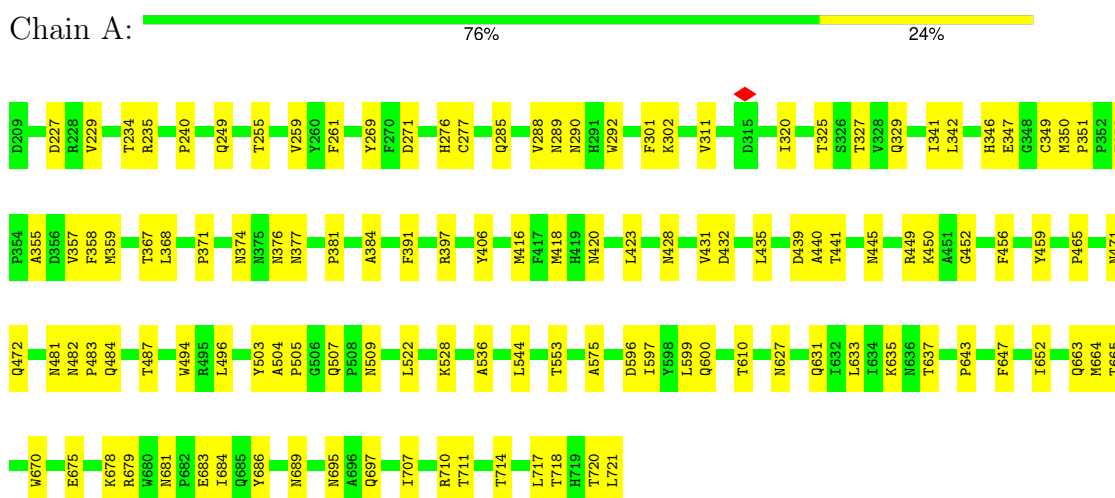
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Mol	Chain	Residues	Atoms					AltConf
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			21	10	5	5	1	
2	2	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	3	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	4	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	5	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	6	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	7	1	Total	C	N	O	P	0
			21	10	5	5	1	
2	8	1	Total	C	N	O	P	0
			21	10	5	5	1	

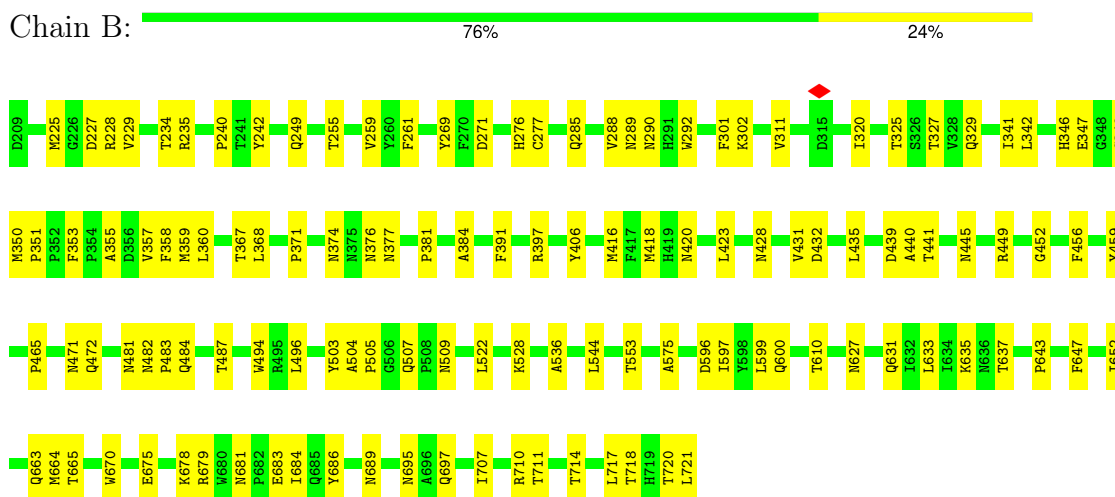
3 Residue-property plots

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

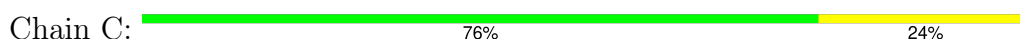
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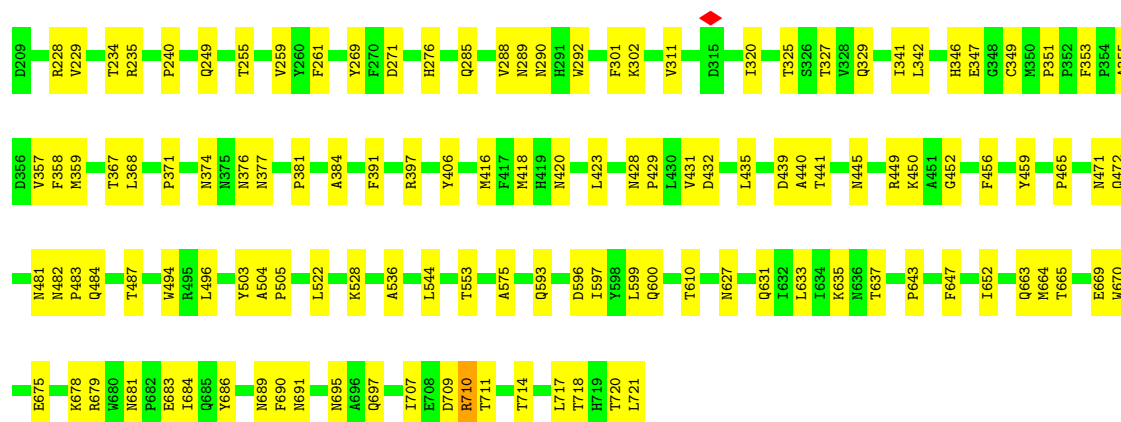


• Molecule 1: VP1 capsid



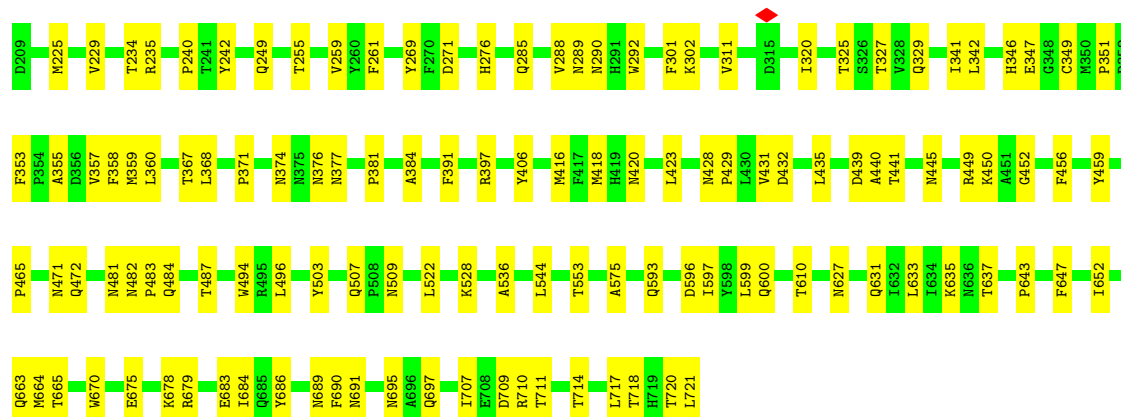
• Molecule 1: VP1 capsid





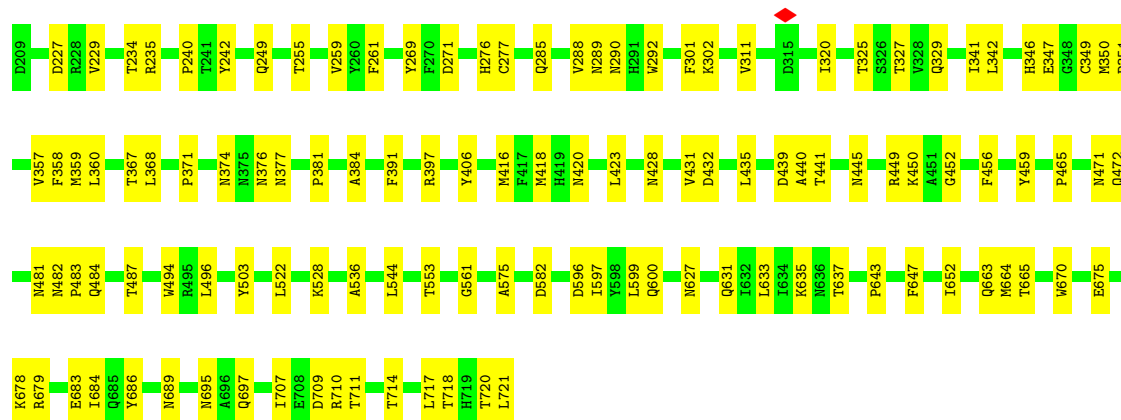
• Molecule 1: VP1 capsid

Chain D: 76% 24%



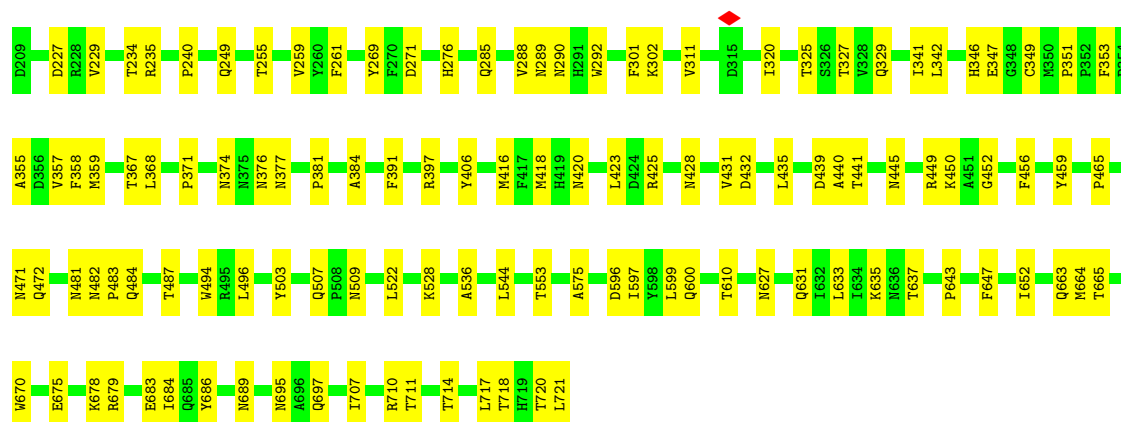
• Molecule 1: VP1 capsid

Chain E: 77% 23%

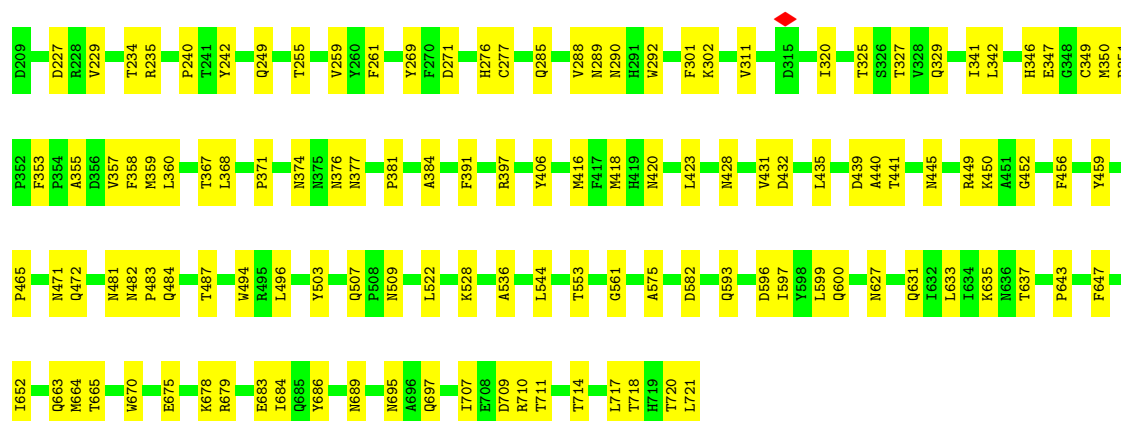
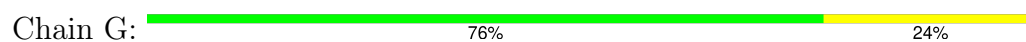


• Molecule 1: VP1 capsid

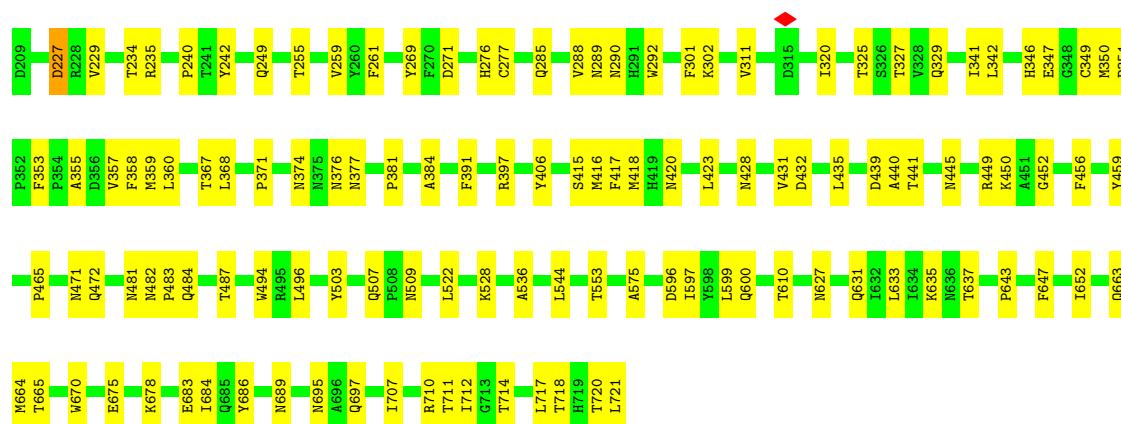
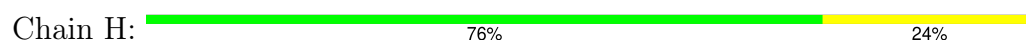
Chain F: 77% 23%



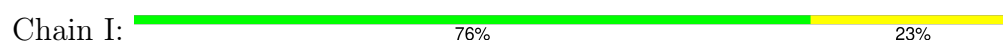
• Molecule 1: VP1 capsid

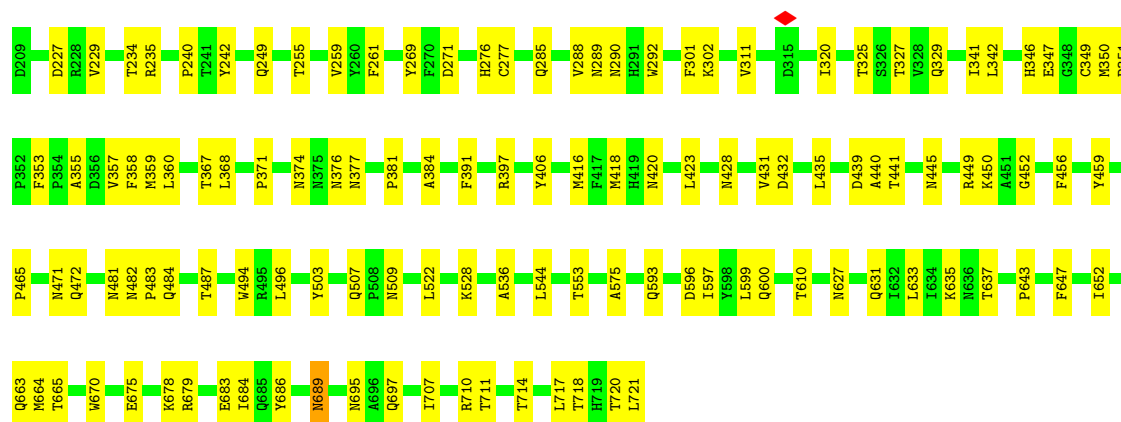


• Molecule 1: VP1 capsid



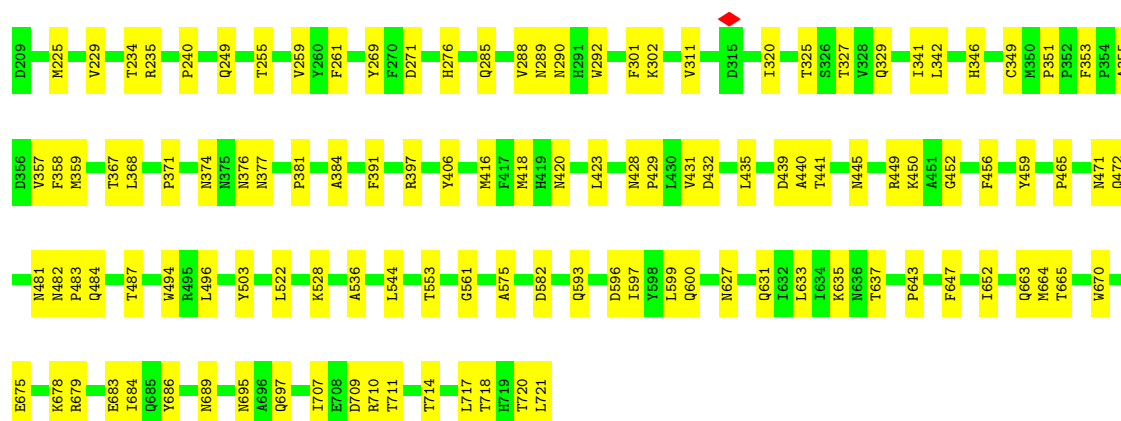
• Molecule 1: VP1 capsid




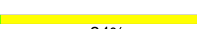


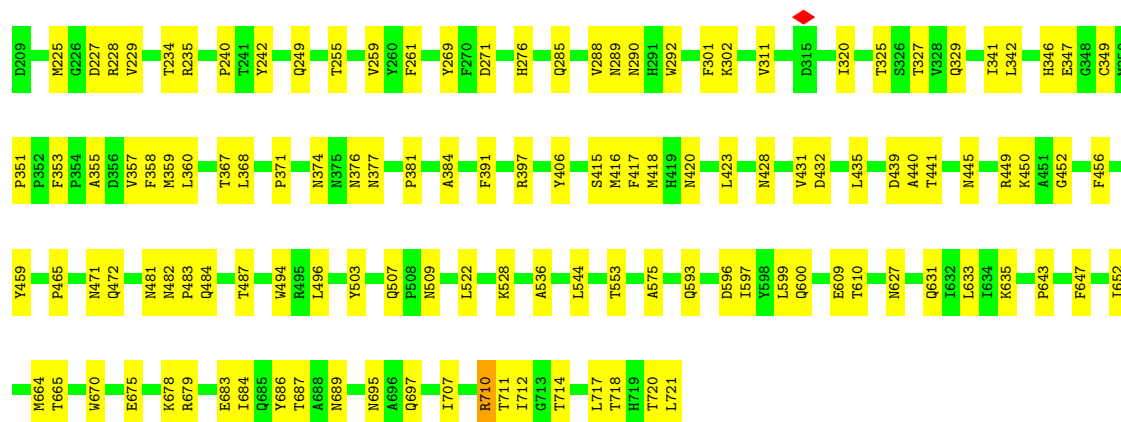
- Molecule 1: VP1 capsid

Chain J:  77%  23%





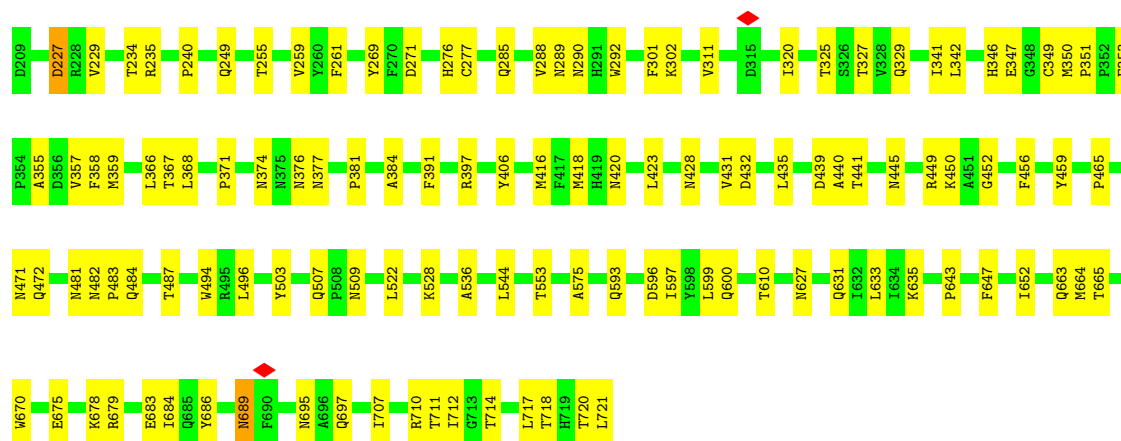
- Molecule 1: VP1 capsid

Chain K:  76%  24%



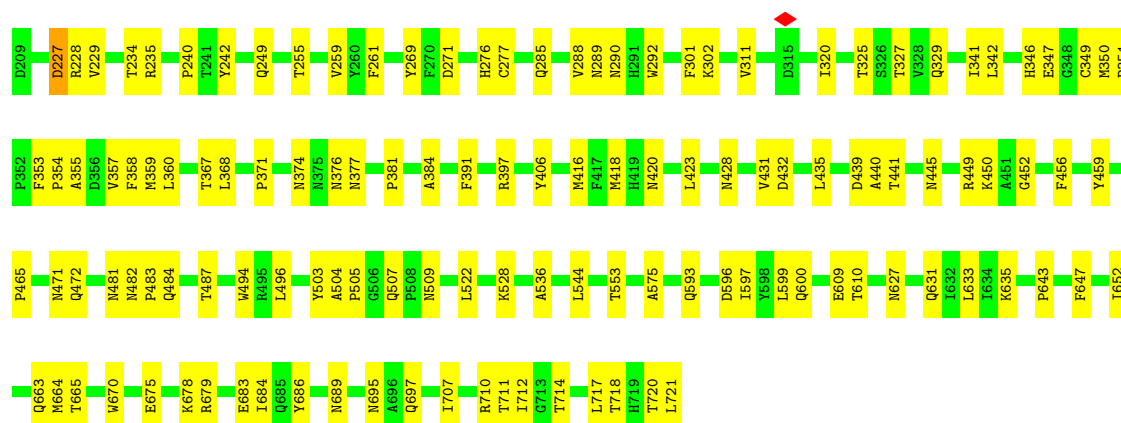
- Molecule 1: VP1 capsid

Chain L:  77%  23%



• Molecule 1: VP1 capsid

Chain M: 75% 24%




• Molecule 1: VP1 capsid

Chain N: 77% 22%




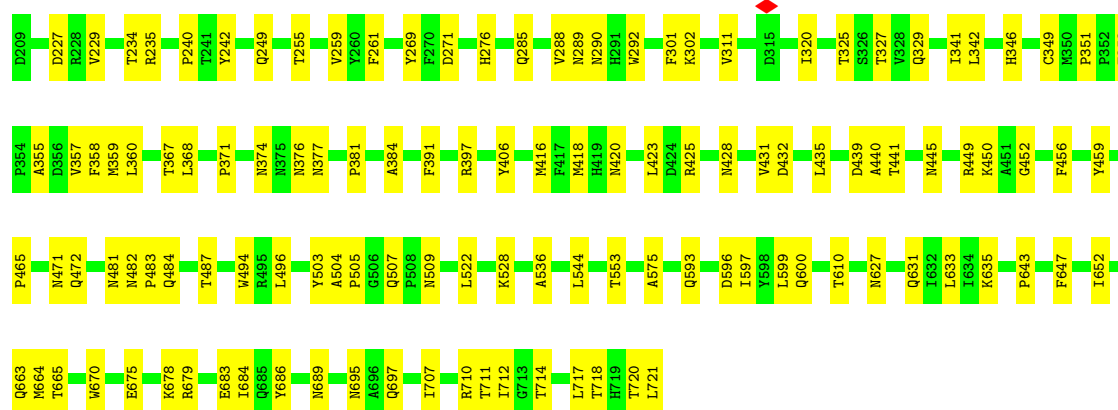
• Molecule 1: VP1 capsid

Chain O:  77% 22%




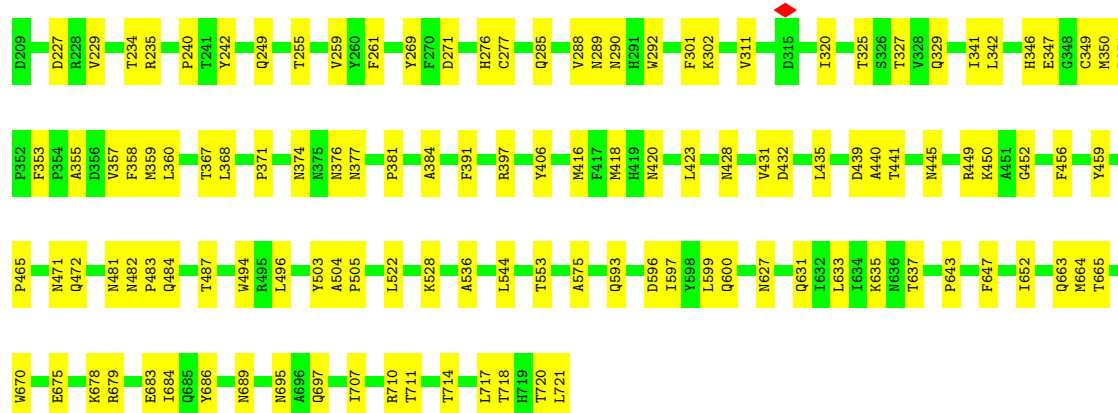
• Molecule 1: VP1 capsid

Chain P:  76% 24%




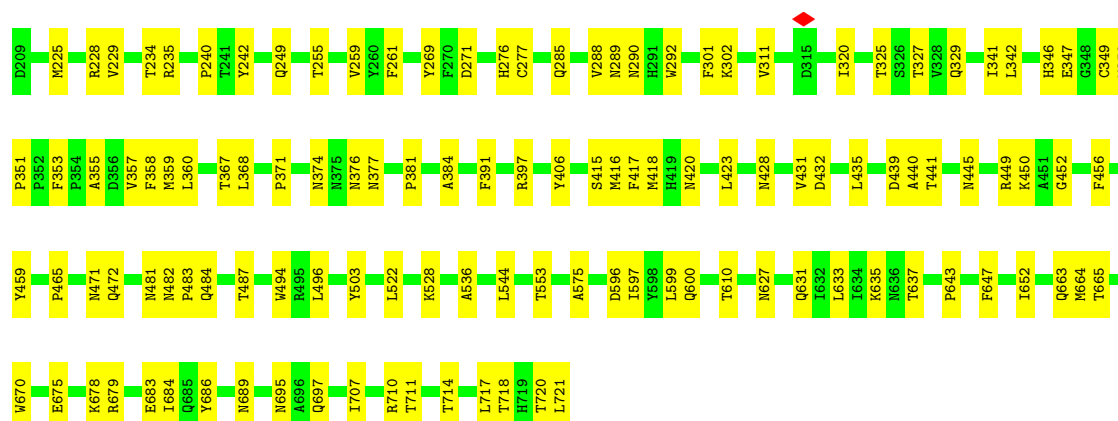
• Molecule 1: VP1 capsid

Chain Q:  77% 23%



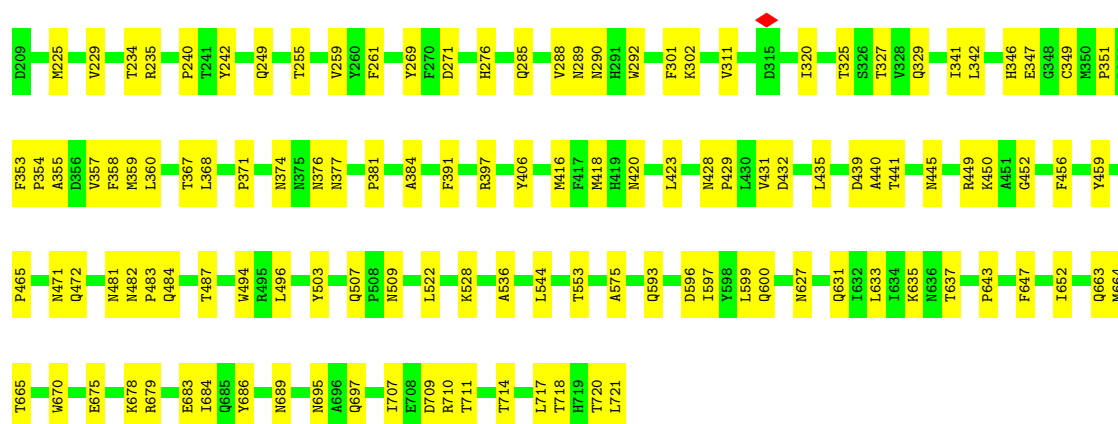
• Molecule 1: VP1 capsid

Chain R:  76% 24%




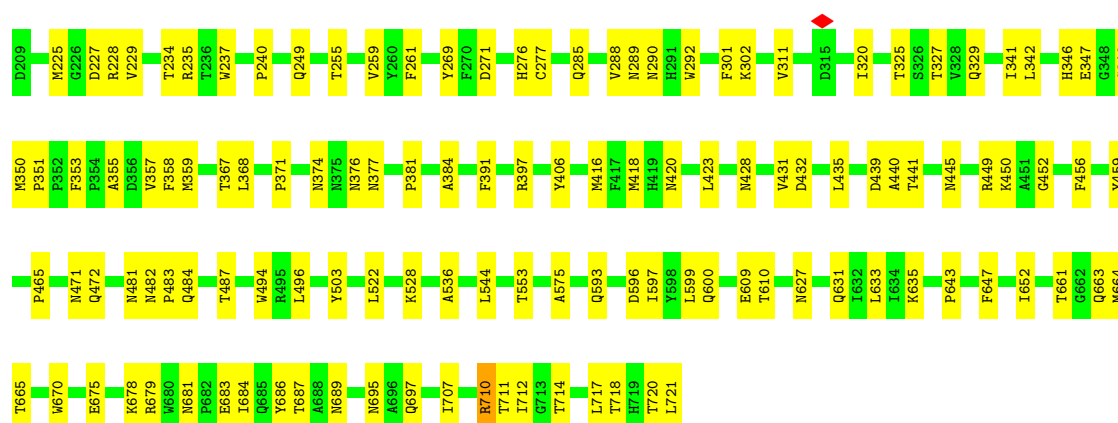
• Molecule 1: VP1 capsid

Chain S:  76% 24%



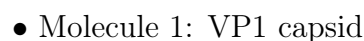
• Molecule 1: VP1 capsid

Chain T:  76% 24%

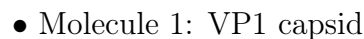


• Molecule 1: VP1 capsid

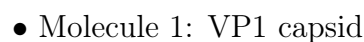
Opinion	Percentage
Doing a good job	76%
Doing a bad job	23%




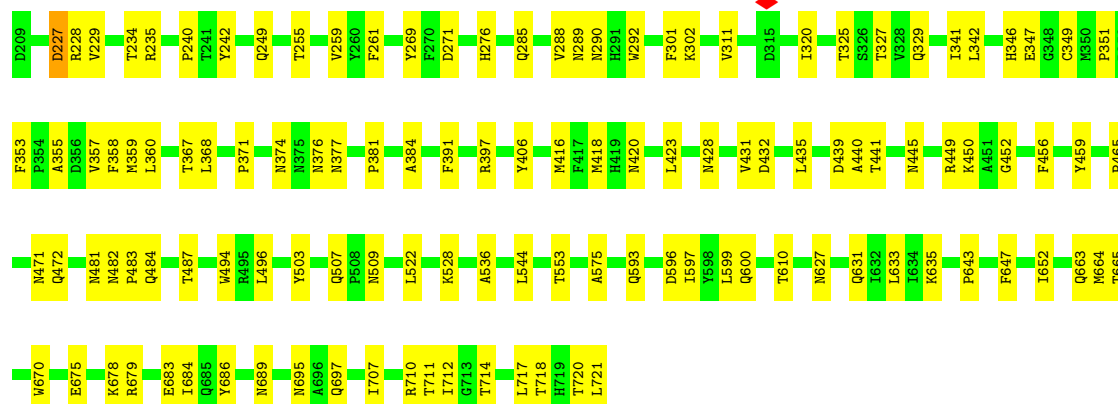
Category	Percentage
Blue	75%
Orange	25%



75% 25%

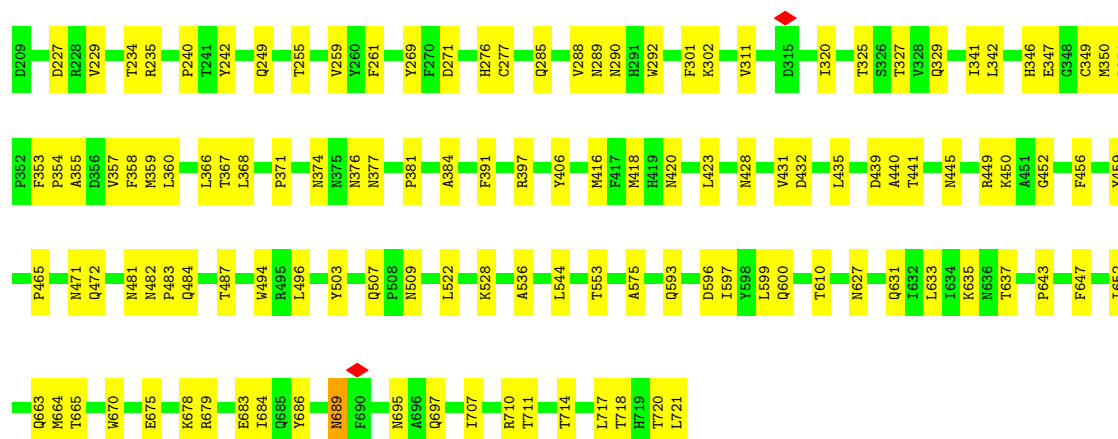


Chain X:  77% 23%



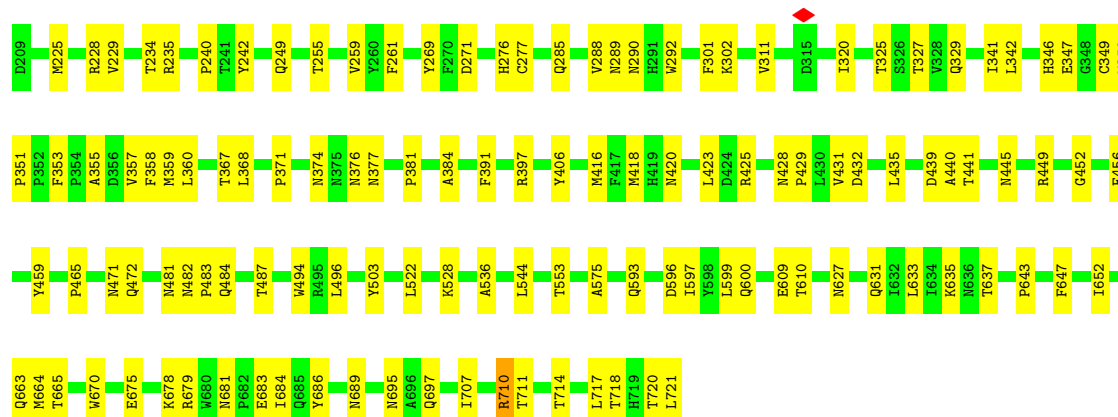
• Molecule 1: VP1 capsid

Chain Y:  76% 24%



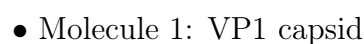
• Molecule 1: VP1 capsid

Chain Z:  76% 24%

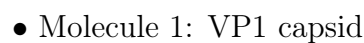


• Molecule 1: VP1 capsid

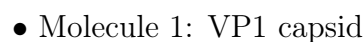
Category	Percentage
Green	75%
Yellow	25%

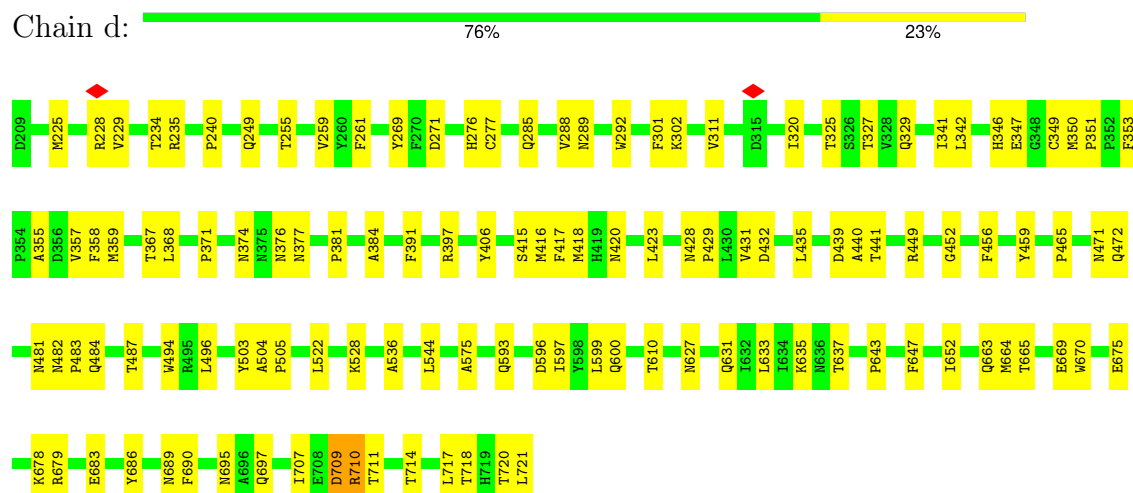


Response	Percentage
Yes, it is a crisis	75%
No, it is not a crisis	24%

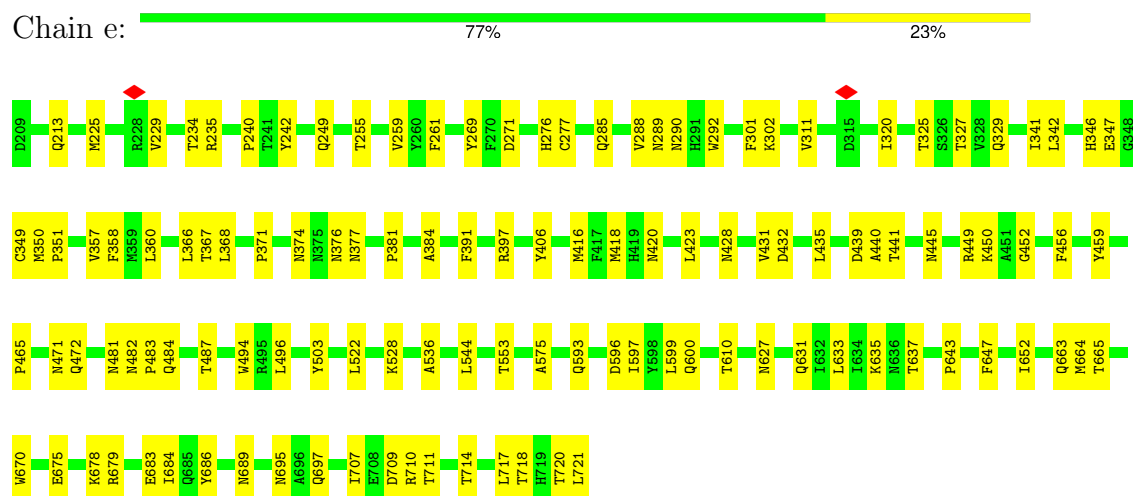


Response	Percentage
Satisfied	77%
Not Satisfied	23%

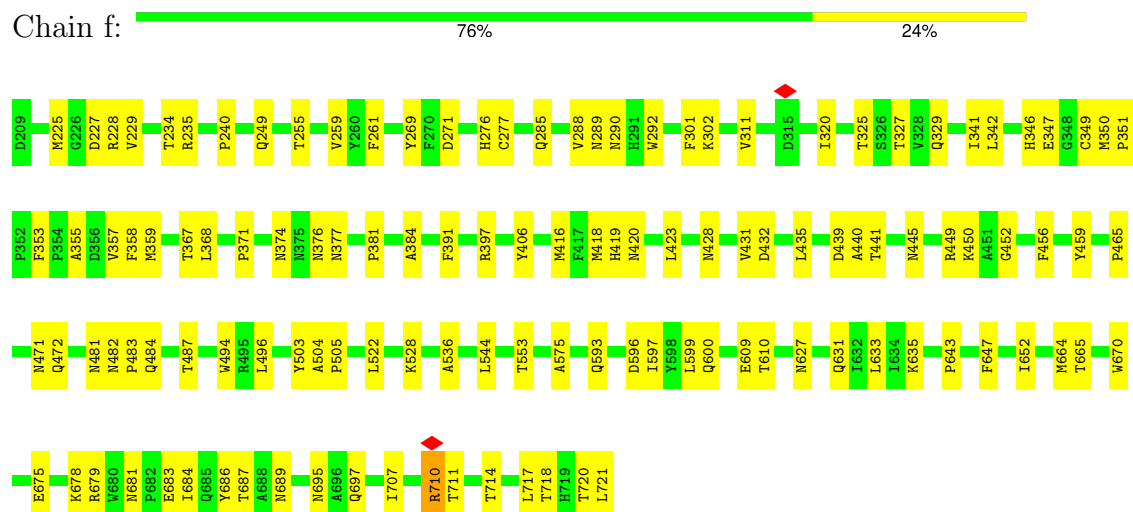




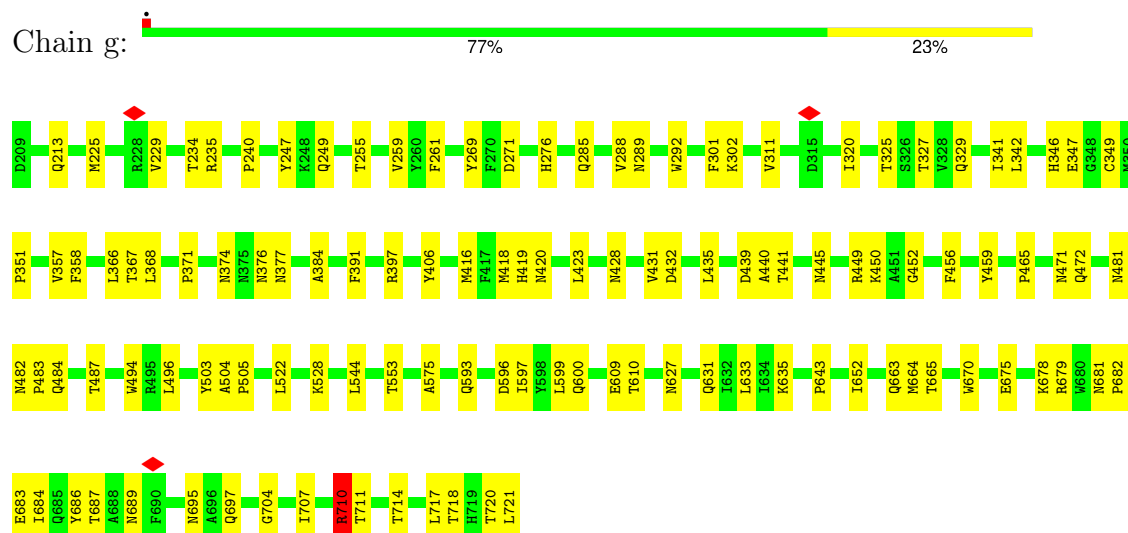
• Molecule 1: VP1 capsid



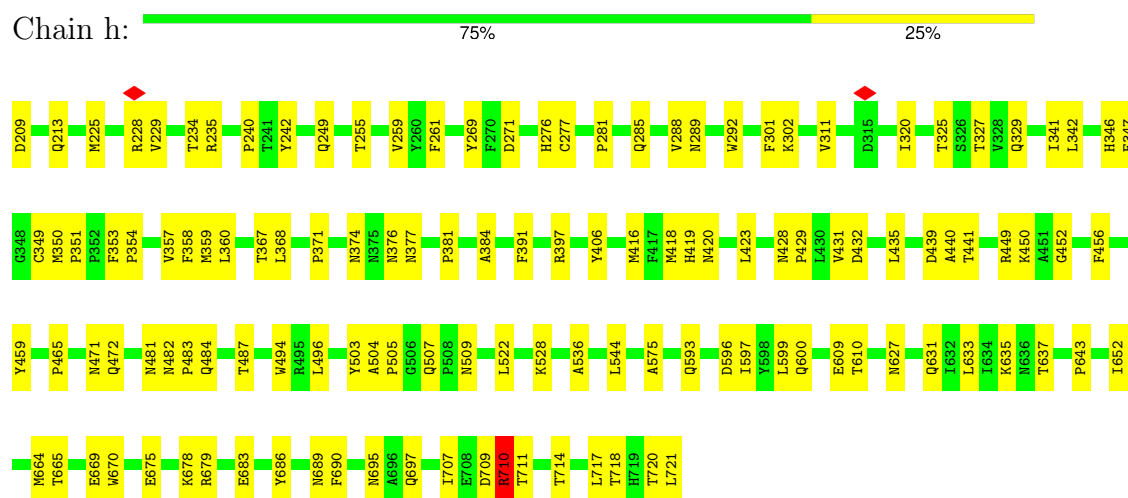
• Molecule 1: VP1 capsid



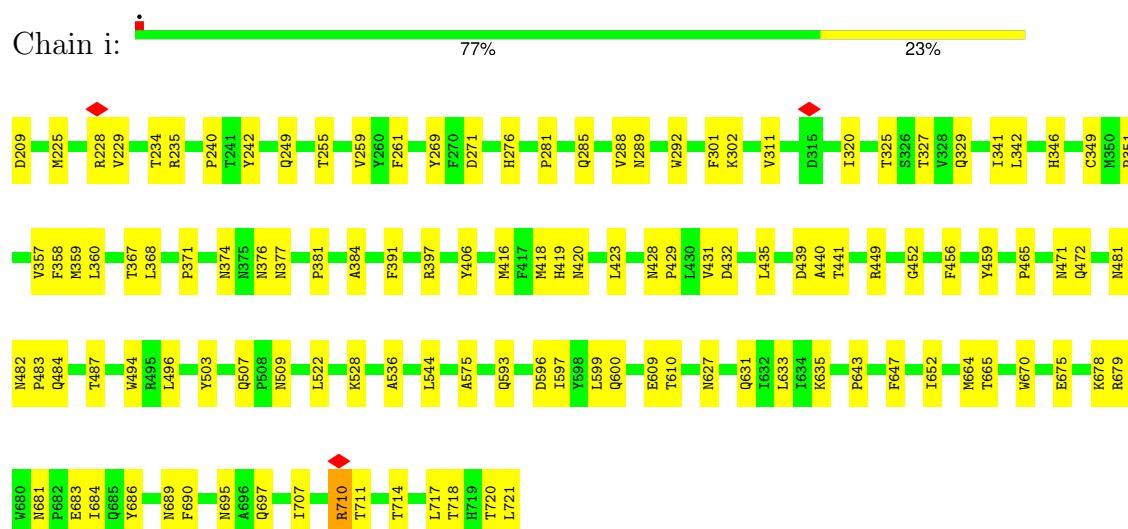
• Molecule 1: VP1 capsid



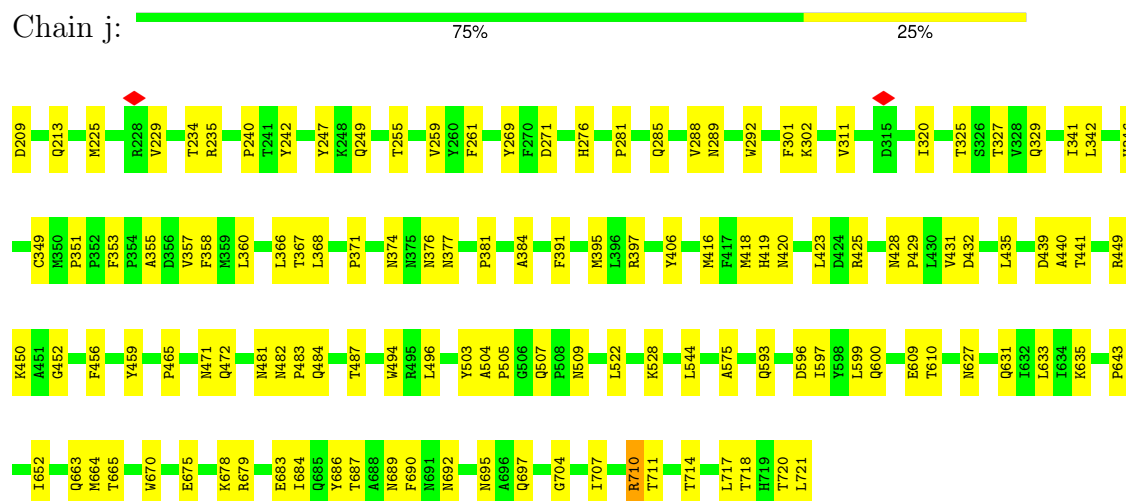
• Molecule 1: VP1 capsid



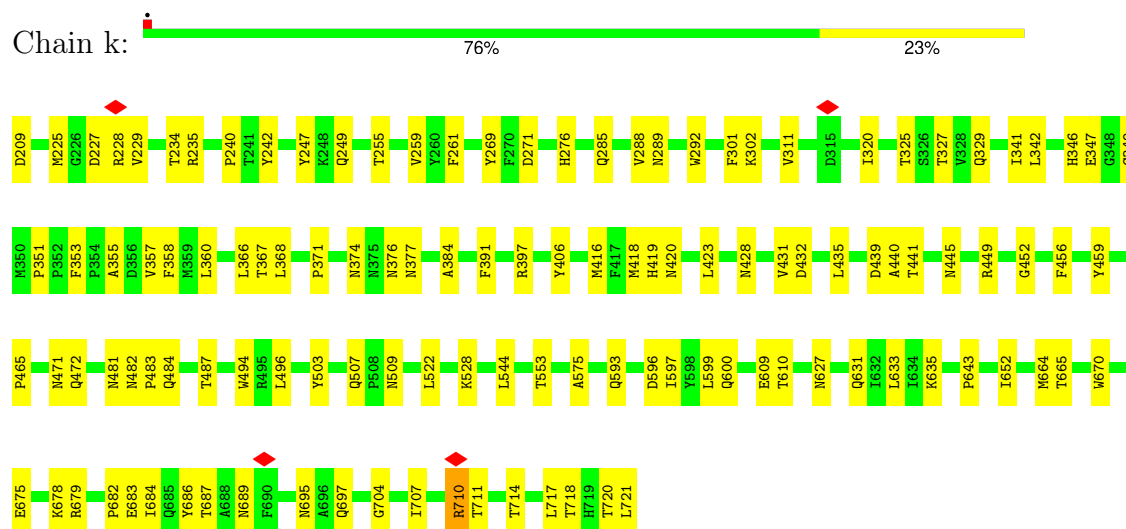
• Molecule 1: VP1 capsid



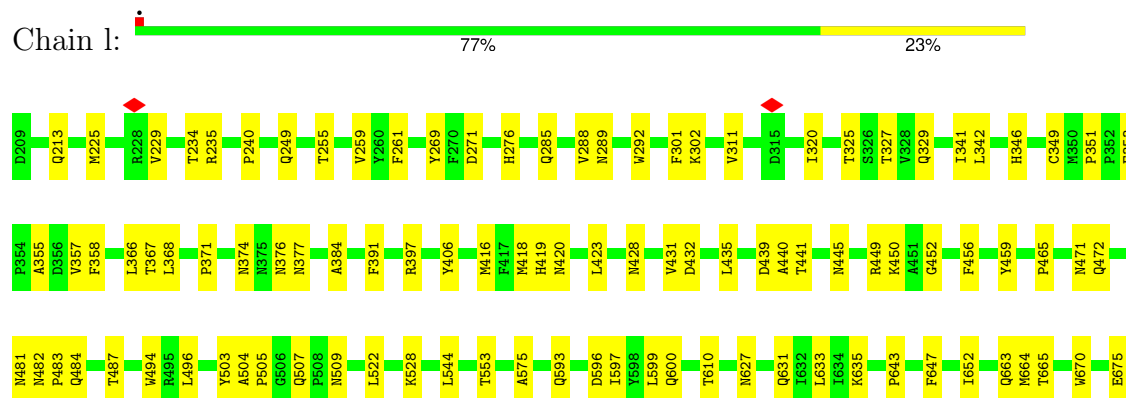
- Molecule 1: VP1 capsid



- Molecule 1: VP1 capsid

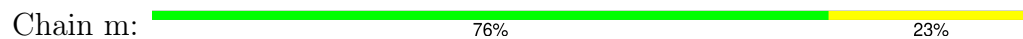


- Molecule 1: VP1 capsid

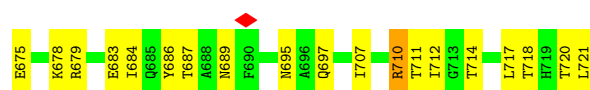
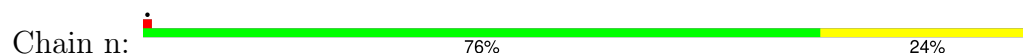




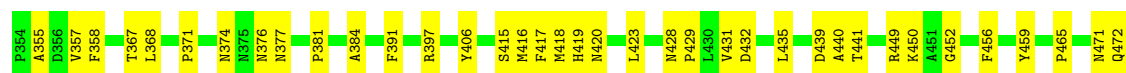
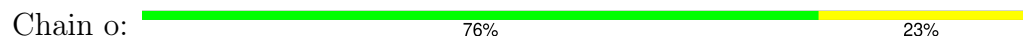
• Molecule 1: VP1 capsid

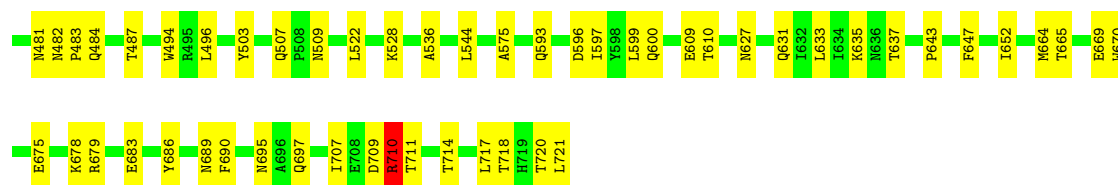


• Molecule 1: VP1 capsid

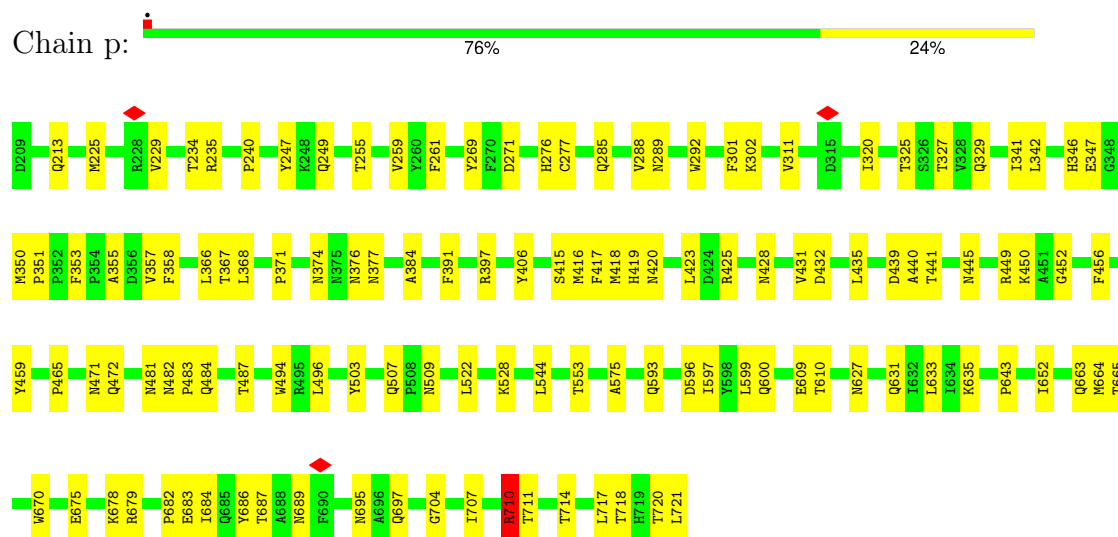


• Molecule 1: VP1 capsid

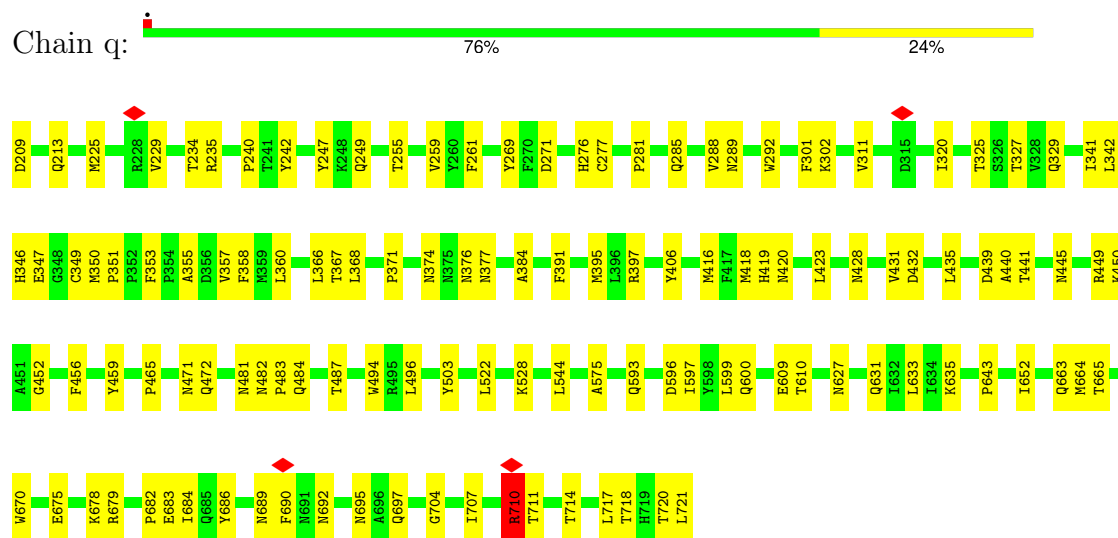




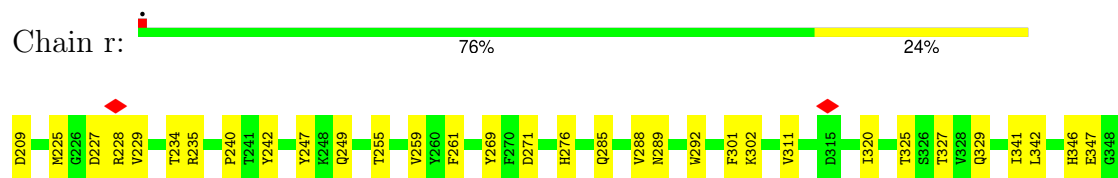
• Molecule 1: VP1 capsid

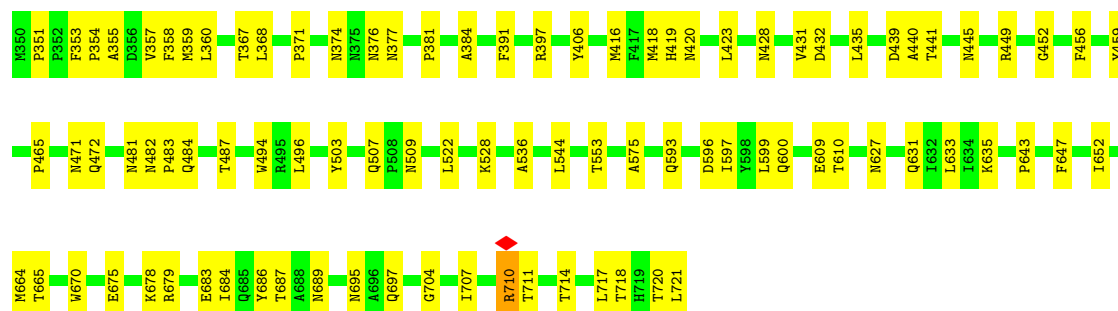


• Molecule 1: VP1 capsid



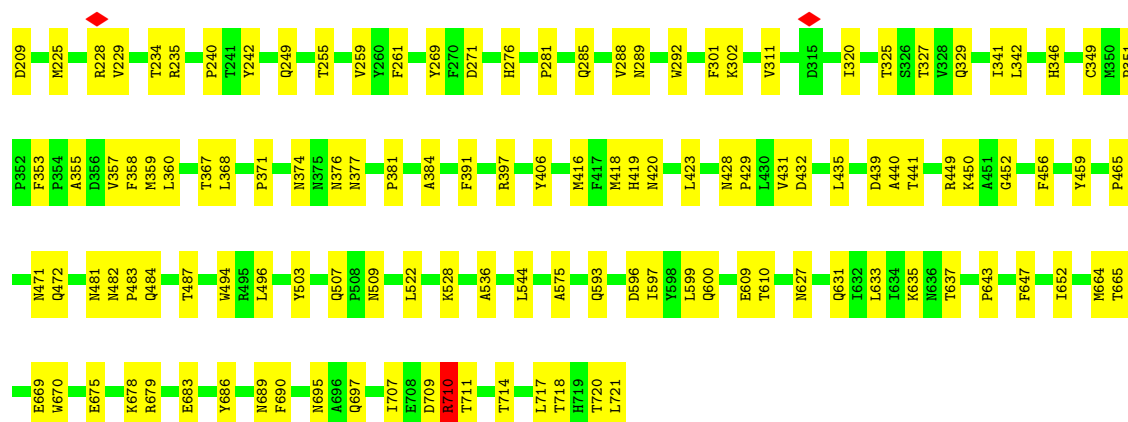
• Molecule 1: VP1 capsid





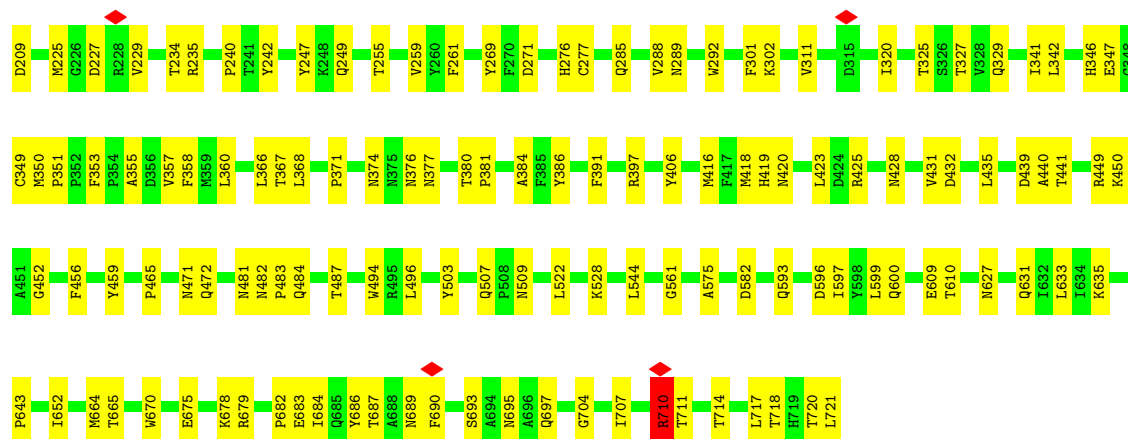
• Molecule 1: VP1 capsid

Chain s: 76% 24%



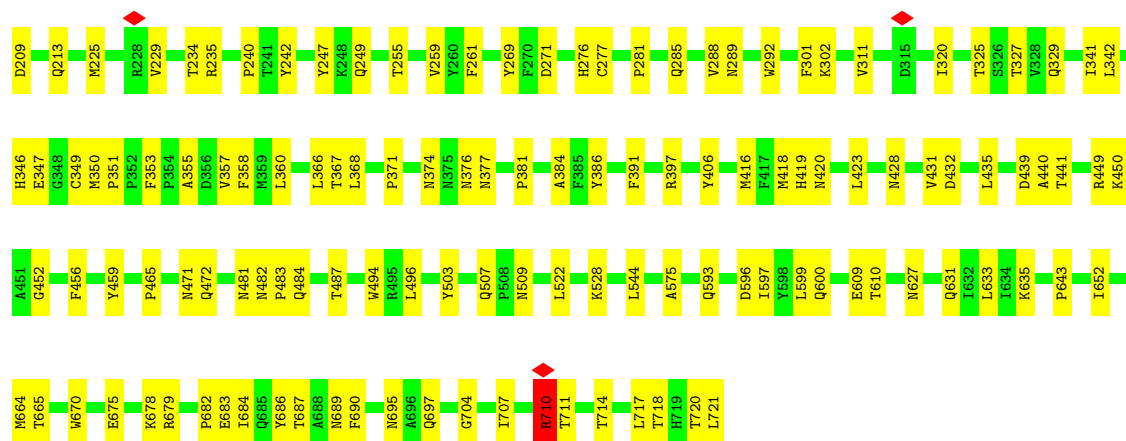
• Molecule 1: VP1 capsid

Chain t: 75% 25%

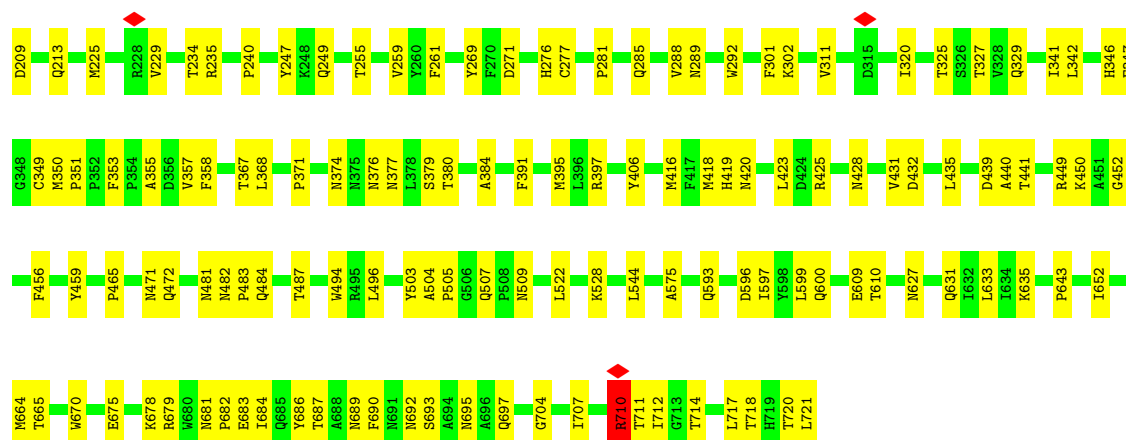
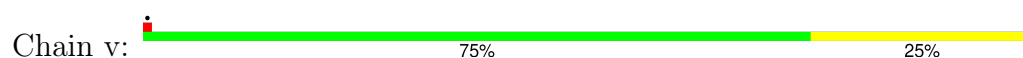


• Molecule 1: VP1 capsid

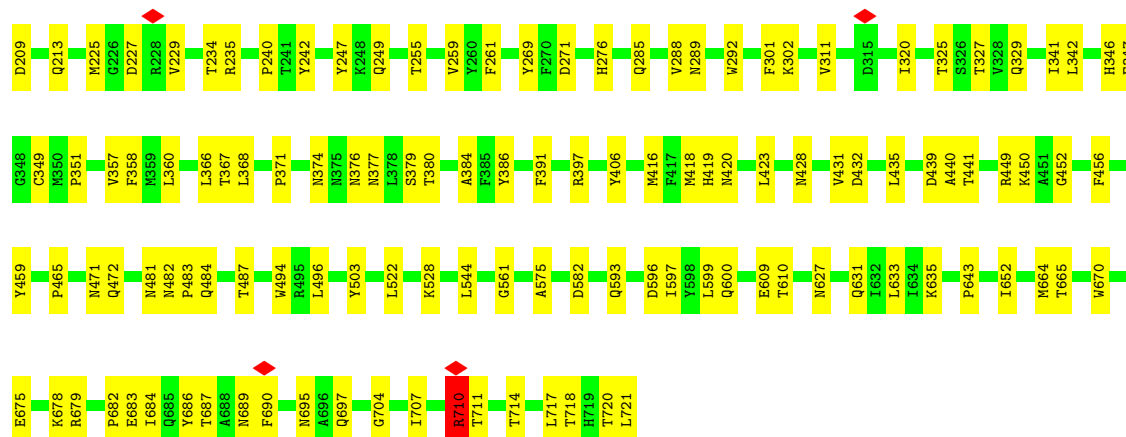
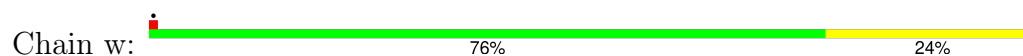
Chain u: 76% 24%



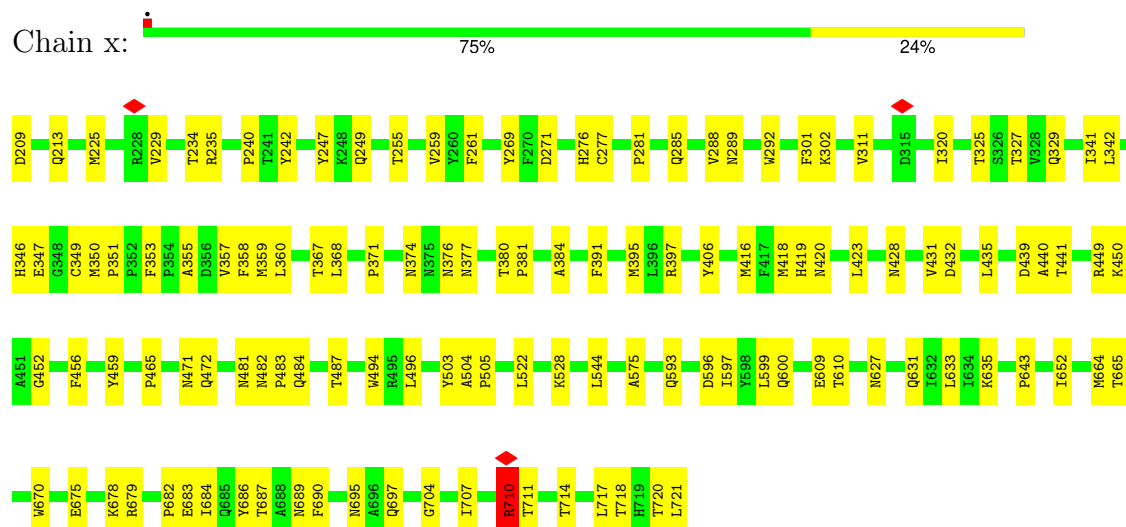
• Molecule 1: VP1 capsid



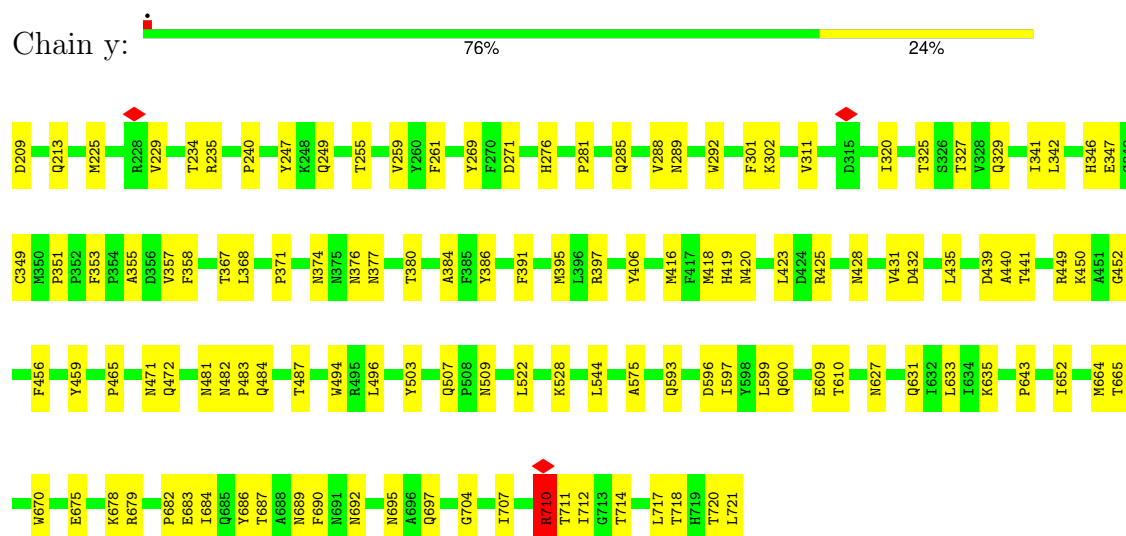
• Molecule 1: VP1 capsid



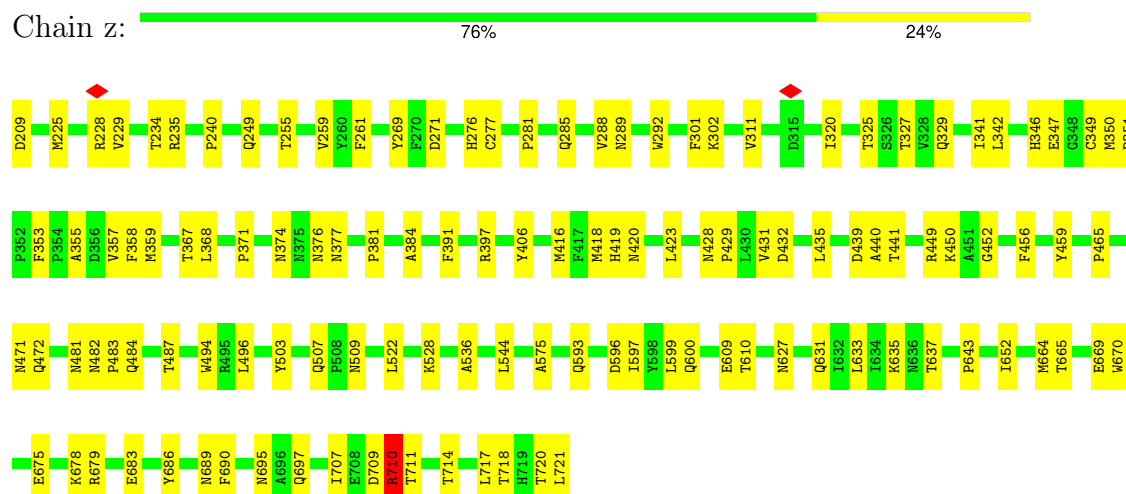
• Molecule 1: VP1 capsid



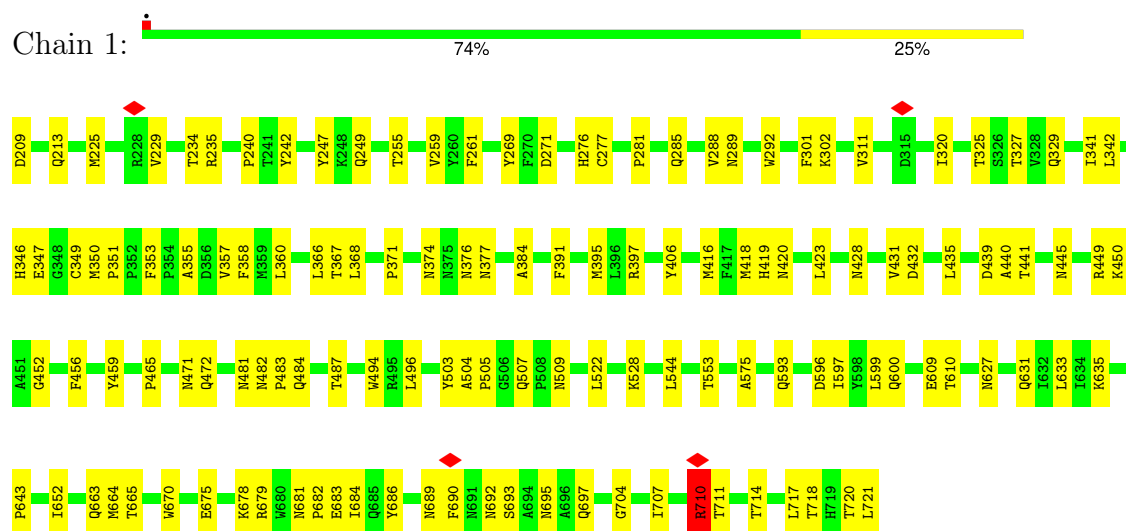
• Molecule 1: VP1 capsid



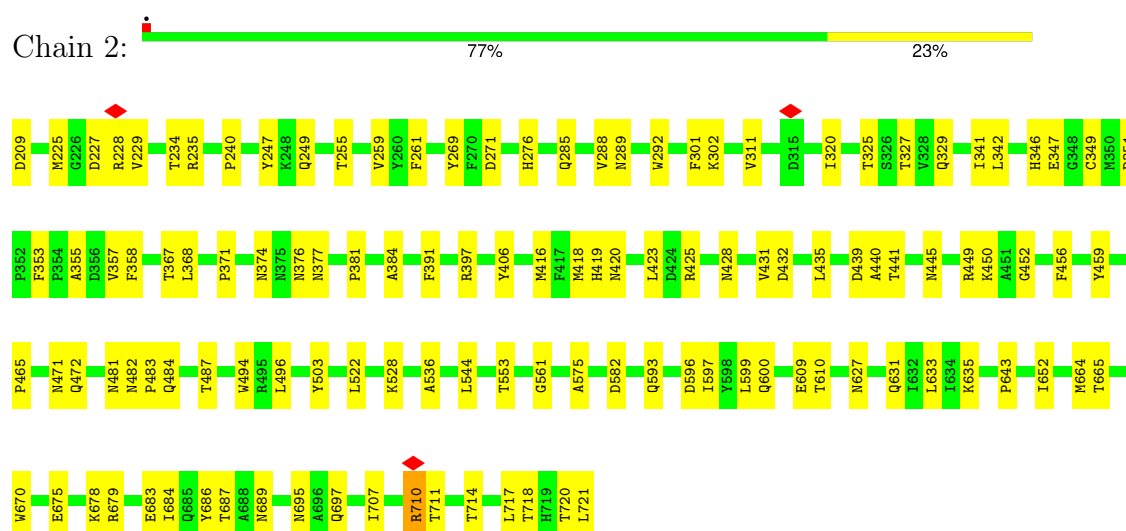
• Molecule 1: VP1 capsid



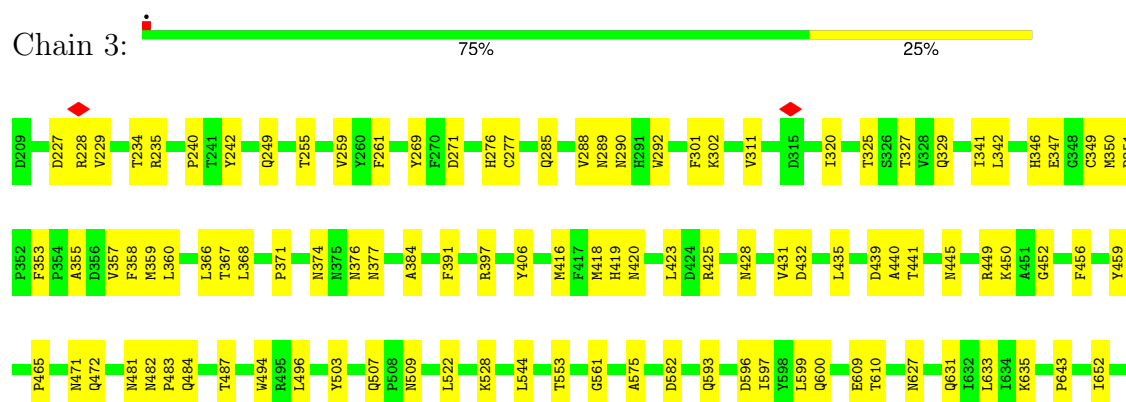
- Molecule 1: VP1 capsid

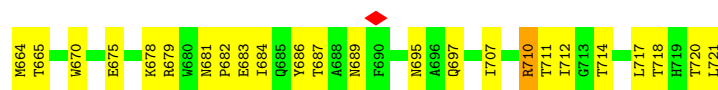


- Molecule 1: VP1 capsid



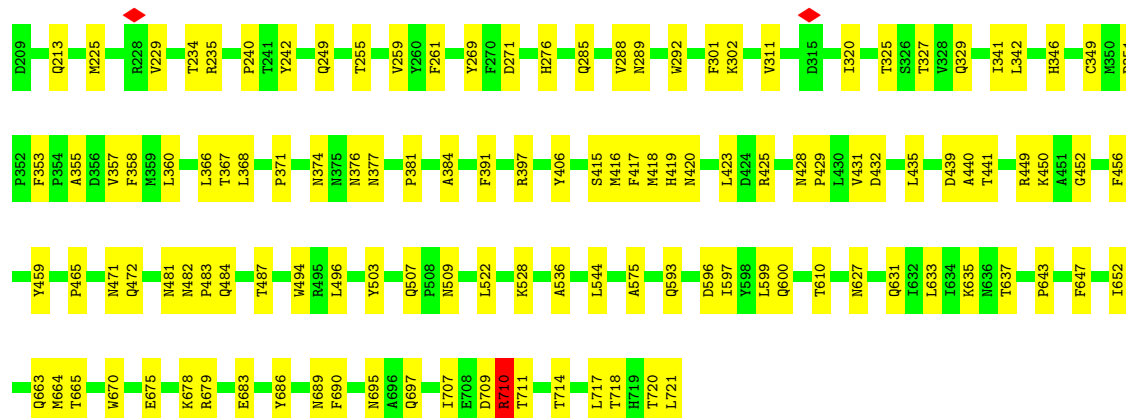
- Molecule 1: VP1 capsid





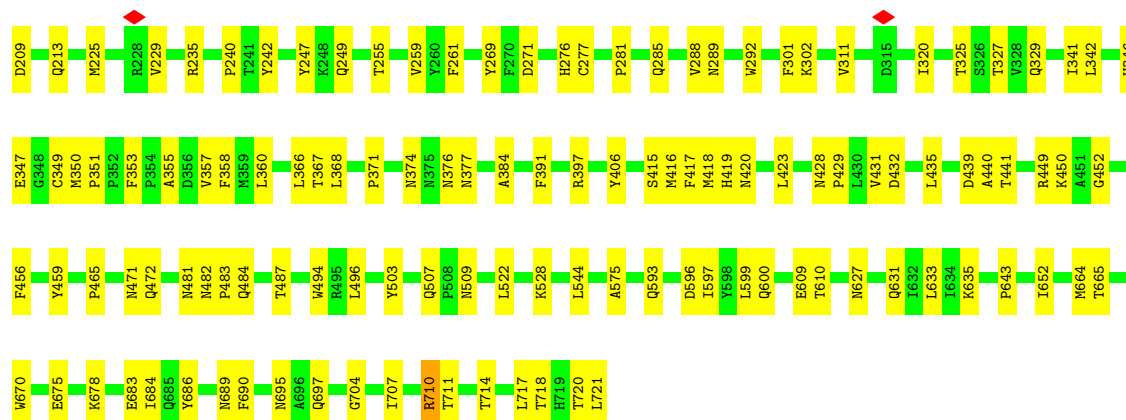
• Molecule 1: VP1 capsid

Chain 4: 76% 24%



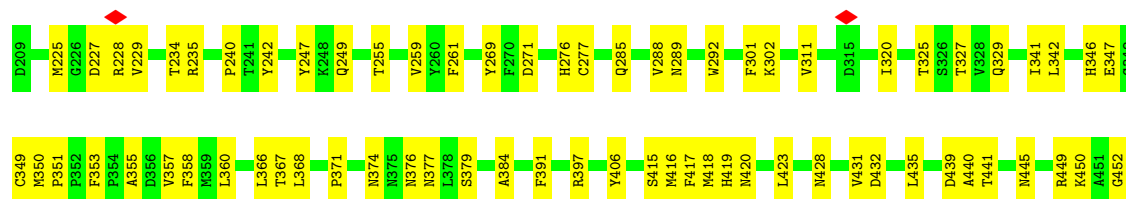
• Molecule 1: VP1 capsid

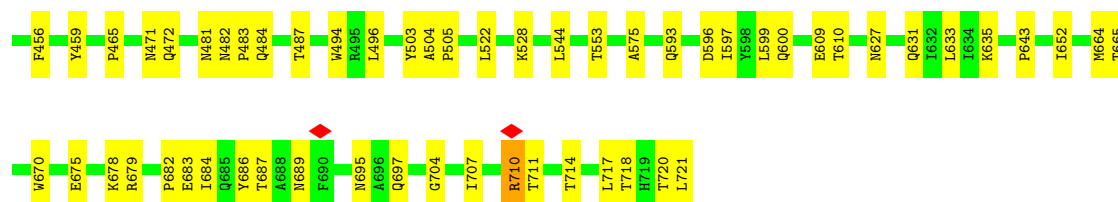
Chain 5: 76% 24%



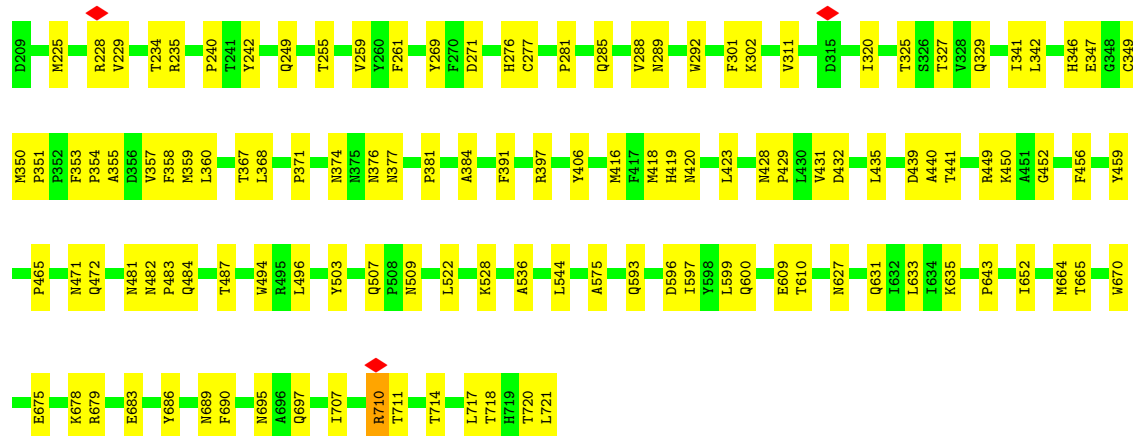
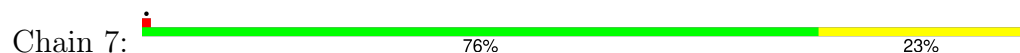
• Molecule 1: VP1 capsid

Chain 6: 75% 24%

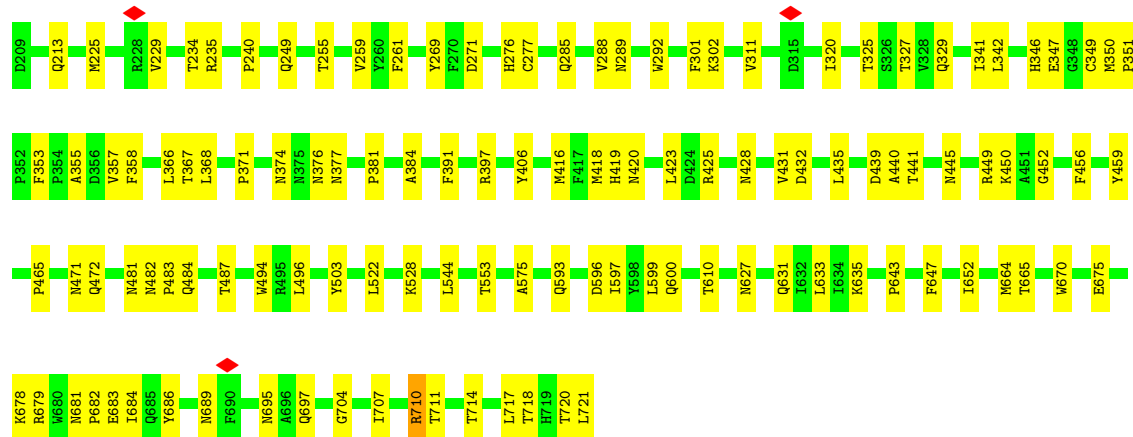
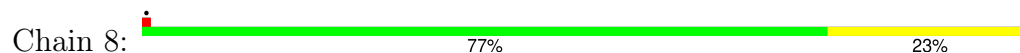




• Molecule 1: VP1 capsid



• Molecule 1: VP1 capsid



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	4661	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	75	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	13.258	Depositor
Minimum map value	-7.952	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (\AA)	425.6, 425.6, 425.6	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.064, 1.064, 1.064	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: D5M

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	0.43	0/4242	0.56	0/5789
1	2	0.42	0/4242	0.54	0/5789
1	3	0.42	0/4242	0.56	0/5789
1	4	0.42	0/4242	0.58	4/5789 (0.1%)
1	5	0.44	0/4242	0.56	0/5789
1	6	0.43	0/4242	0.55	0/5789
1	7	0.39	0/4242	0.54	0/5789
1	8	0.41	0/4242	0.57	2/5789 (0.0%)
1	A	0.40	0/4242	0.56	2/5789 (0.0%)
1	B	0.40	0/4242	0.54	0/5789
1	C	0.40	0/4242	0.54	0/5789
1	D	0.41	0/4242	0.56	2/5789 (0.0%)
1	E	0.40	0/4242	0.57	4/5789 (0.1%)
1	F	0.40	0/4242	0.56	2/5789 (0.0%)
1	G	0.40	0/4242	0.57	4/5789 (0.1%)
1	H	0.41	0/4242	0.54	2/5789 (0.0%)
1	I	0.39	0/4242	0.57	4/5789 (0.1%)
1	J	0.41	0/4242	0.58	2/5789 (0.0%)
1	K	0.41	0/4242	0.53	0/5789
1	L	0.40	0/4242	0.57	4/5789 (0.1%)
1	M	0.42	0/4242	0.55	2/5789 (0.0%)
1	N	0.39	0/4242	0.59	4/5789 (0.1%)
1	O	0.39	0/4242	0.53	0/5789
1	P	0.41	0/4242	0.54	2/5789 (0.0%)
1	Q	0.39	0/4242	0.57	2/5789 (0.0%)
1	R	0.40	0/4242	0.54	0/5789
1	S	0.41	0/4242	0.58	2/5789 (0.0%)
1	T	0.41	0/4242	0.53	0/5789
1	U	0.40	0/4242	0.57	4/5789 (0.1%)
1	V	0.40	0/4242	0.54	0/5789
1	W	0.41	0/4242	0.56	2/5789 (0.0%)
1	X	0.42	0/4242	0.55	2/5789 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	0.39	0/4242	0.59	4/5789 (0.1%)
1	Z	0.39	0/4242	0.53	0/5789
1	a	0.42	0/4242	0.56	2/5789 (0.0%)
1	b	0.40	0/4242	0.58	4/5789 (0.1%)
1	c	0.39	0/4242	0.53	0/5789
1	d	0.42	0/4242	0.56	2/5789 (0.0%)
1	e	0.40	0/4242	0.59	2/5789 (0.0%)
1	f	0.39	0/4242	0.53	0/5789
1	g	0.43	0/4242	0.57	2/5789 (0.0%)
1	h	0.43	0/4242	0.57	4/5789 (0.1%)
1	i	0.39	0/4242	0.54	0/5789
1	j	0.44	0/4242	0.56	0/5789
1	k	0.43	0/4242	0.56	0/5789
1	l	0.41	0/4242	0.57	2/5789 (0.0%)
1	m	0.42	0/4242	0.58	4/5789 (0.1%)
1	n	0.42	0/4242	0.56	0/5789
1	o	0.43	0/4242	0.57	4/5789 (0.1%)
1	p	0.43	0/4242	0.57	2/5789 (0.0%)
1	q	0.43	0/4242	0.56	0/5789
1	r	0.42	0/4242	0.54	0/5789
1	s	0.41	0/4242	0.54	0/5789
1	t	0.43	0/4242	0.55	0/5789
1	u	0.41	0/4242	0.55	0/5789
1	v	0.44	0/4242	0.56	0/5789
1	w	0.43	0/4242	0.55	0/5789
1	x	0.41	0/4242	0.55	0/5789
1	y	0.44	0/4242	0.56	0/5789
1	z	0.41	0/4242	0.54	0/5789
All	All	0.41	0/254520	0.56	84/347340 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	l	0	2
1	q	0	2
1	s	0	2
1	t	0	2
1	u	0	2
1	v	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	w	0	2
1	x	0	2
1	y	0	2
1	z	0	2
All	All	0	20

There are no bond length outliers.

All (84) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	709	ASP	CA-C-N	-8.99	108.05	122.53
1	J	709	ASP	C-N-CA	-8.99	108.05	122.53
1	S	709	ASP	CA-C-N	-8.96	108.11	122.53
1	S	709	ASP	C-N-CA	-8.96	108.11	122.53
1	D	709	ASP	CA-C-N	-8.26	109.23	122.53
1	D	709	ASP	C-N-CA	-8.26	109.23	122.53
1	W	709	ASP	CA-C-N	-8.26	109.23	122.53
1	W	709	ASP	C-N-CA	-8.26	109.23	122.53
1	4	709	ASP	CA-C-N	-7.97	109.69	122.53
1	4	709	ASP	C-N-CA	-7.97	109.69	122.53
1	m	709	ASP	CA-C-N	-7.97	109.70	122.53
1	m	709	ASP	C-N-CA	-7.97	109.70	122.53
1	I	227	ASP	CA-C-N	-7.64	106.99	121.66
1	I	227	ASP	C-N-CA	-7.64	106.99	121.66
1	Q	227	ASP	CA-C-N	-7.58	107.11	121.66
1	Q	227	ASP	C-N-CA	-7.58	107.11	121.66
1	F	227	ASP	CA-C-N	-7.46	108.31	121.29
1	F	227	ASP	C-N-CA	-7.46	108.31	121.29
1	A	227	ASP	CA-C-N	-7.42	108.37	121.29
1	A	227	ASP	C-N-CA	-7.42	108.37	121.29
1	b	709	ASP	CA-C-N	-7.32	109.97	123.01
1	b	709	ASP	C-N-CA	-7.32	109.97	123.01
1	a	709	ASP	CA-C-N	-7.23	110.79	122.36
1	a	709	ASP	C-N-CA	-7.23	110.79	122.36
1	d	709	ASP	CA-C-N	-7.23	110.79	122.36
1	d	709	ASP	C-N-CA	-7.23	110.79	122.36
1	e	709	ASP	CA-C-N	-7.21	110.17	123.01
1	e	709	ASP	C-N-CA	-7.21	110.17	123.01
1	N	227	ASP	CA-C-N	-6.92	108.06	121.06
1	N	227	ASP	C-N-CA	-6.92	108.06	121.06
1	Y	227	ASP	CA-C-N	-6.92	108.06	121.06
1	Y	227	ASP	C-N-CA	-6.92	108.06	121.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	227	ASP	CA-C-N	-6.91	108.07	121.06
1	E	227	ASP	C-N-CA	-6.91	108.07	121.06
1	G	227	ASP	CA-C-N	-6.88	108.14	121.06
1	G	227	ASP	C-N-CA	-6.88	108.14	121.06
1	E	709	ASP	CA-C-N	-6.85	111.11	122.21
1	E	709	ASP	C-N-CA	-6.85	111.11	122.21
1	G	709	ASP	CA-C-N	-6.83	111.14	122.21
1	G	709	ASP	C-N-CA	-6.83	111.14	122.21
1	h	709	ASP	CA-C-N	-6.50	112.06	122.53
1	h	709	ASP	C-N-CA	-6.50	112.06	122.53
1	o	709	ASP	CA-C-N	-6.50	112.06	122.53
1	o	709	ASP	C-N-CA	-6.50	112.06	122.53
1	L	227	ASP	CA-C-N	-6.07	108.46	121.45
1	L	227	ASP	C-N-CA	-6.07	108.46	121.45
1	U	227	ASP	CA-C-N	-6.07	108.46	121.45
1	U	227	ASP	C-N-CA	-6.07	108.46	121.45
1	4	710[A]	ARG	N-CA-C	5.62	116.78	108.86
1	4	710[B]	ARG	N-CA-C	5.62	116.78	108.86
1	m	710[A]	ARG	N-CA-C	5.59	116.74	108.86
1	m	710[B]	ARG	N-CA-C	5.59	116.74	108.86
1	P	227	ASP	CA-C-N	-5.56	110.60	121.06
1	P	227	ASP	C-N-CA	-5.56	110.60	121.06
1	H	227	ASP	CA-C-N	-5.54	110.64	121.06
1	H	227	ASP	C-N-CA	-5.54	110.64	121.06
1	X	227	ASP	CA-C-N	-5.50	110.71	121.06
1	X	227	ASP	C-N-CA	-5.50	110.71	121.06
1	M	227	ASP	CA-C-N	-5.49	110.74	121.06
1	M	227	ASP	C-N-CA	-5.49	110.74	121.06
1	g	710[A]	ARG	CB-CA-C	-5.39	99.67	109.38
1	g	710[B]	ARG	CB-CA-C	-5.39	99.67	109.38
1	p	710[A]	ARG	CB-CA-C	-5.39	99.67	109.38
1	p	710[B]	ARG	CB-CA-C	-5.39	99.67	109.38
1	l	710[A]	ARG	CB-CA-C	-5.12	99.25	109.33
1	l	710[B]	ARG	CB-CA-C	-5.12	99.25	109.33
1	8	710[A]	ARG	CB-CA-C	-5.12	99.25	109.33
1	8	710[B]	ARG	CB-CA-C	-5.12	99.25	109.33
1	o	710[A]	ARG	N-CA-C	5.04	115.97	108.86
1	o	710[B]	ARG	N-CA-C	5.04	115.97	108.86
1	N	689	ASN	CA-C-N	5.03	131.21	122.56
1	N	689	ASN	C-N-CA	5.03	131.21	122.56
1	Y	689	ASN	CA-C-N	5.03	131.21	122.56
1	Y	689	ASN	C-N-CA	5.03	131.21	122.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	710[A]	ARG	N-CA-C	5.03	115.95	108.86
1	h	710[B]	ARG	N-CA-C	5.03	115.95	108.86
1	L	689	ASN	CA-C-N	5.02	131.98	121.94
1	L	689	ASN	C-N-CA	5.02	131.98	121.94
1	U	689	ASN	CA-C-N	5.02	131.98	121.94
1	U	689	ASN	C-N-CA	5.02	131.98	121.94
1	b	710[A]	ARG	CB-CA-C	-5.02	100.57	111.11
1	b	710[B]	ARG	CB-CA-C	-5.02	100.57	111.11
1	I	689	ASN	CA-C-N	5.01	131.95	121.94
1	I	689	ASN	C-N-CA	5.01	131.95	121.94

There are no chirality outliers.

All (20) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	l	710[A]	ARG	Peptide
1	l	710[B]	ARG	Peptide
1	q	710[A]	ARG	Peptide
1	q	710[B]	ARG	Peptide
1	s	710[A]	ARG	Peptide
1	s	710[B]	ARG	Peptide
1	t	710[A]	ARG	Peptide
1	t	710[B]	ARG	Peptide
1	u	710[A]	ARG	Peptide
1	u	710[B]	ARG	Peptide
1	v	710[A]	ARG	Peptide
1	v	710[B]	ARG	Peptide
1	w	710[A]	ARG	Peptide
1	w	710[B]	ARG	Peptide
1	x	710[A]	ARG	Peptide
1	x	710[B]	ARG	Peptide
1	y	710[A]	ARG	Peptide
1	y	710[B]	ARG	Peptide
1	z	710[A]	ARG	Peptide
1	z	710[B]	ARG	Peptide

5.2 Too-close contacts

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

the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4097	0	3876	115	0
1	2	4097	0	3876	103	0
1	3	4097	0	3876	105	0
1	4	4097	0	3876	98	0
1	5	4097	0	3876	105	0
1	6	4097	0	3876	104	0
1	7	4097	0	3876	105	0
1	8	4097	0	3876	99	0
1	A	4097	0	3876	96	0
1	B	4097	0	3876	100	0
1	C	4097	0	3876	102	0
1	D	4097	0	3876	98	0
1	E	4097	0	3876	93	0
1	F	4097	0	3876	94	0
1	G	4097	0	3876	97	0
1	H	4097	0	3876	98	0
1	I	4097	0	3876	96	0
1	J	4097	0	3876	95	0
1	K	4097	0	3876	101	0
1	L	4097	0	3876	98	0
1	M	4097	0	3876	103	0
1	N	4097	0	3876	94	0
1	O	4097	0	3876	97	0
1	P	4097	0	3876	98	0
1	Q	4097	0	3876	96	0
1	R	4097	0	3876	98	0
1	S	4097	0	3876	98	0
1	T	4097	0	3876	106	0
1	U	4097	0	3876	98	0
1	V	4097	0	3876	104	0
1	W	4097	0	3876	100	0
1	X	4097	0	3876	99	0
1	Y	4097	0	3876	98	0
1	Z	4097	0	3876	103	0
1	a	4097	0	3876	112	0
1	b	4097	0	3876	102	0
1	c	4097	0	3876	101	0
1	d	4097	0	3876	103	0
1	e	4097	0	3876	97	0
1	f	4097	0	3876	104	0
1	g	4097	0	3876	103	0
1	h	4097	0	3876	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	i	4097	0	3876	107	0
1	j	4097	0	3876	113	0
1	k	4097	0	3876	102	0
1	l	4097	0	3876	98	0
1	m	4097	0	3876	101	0
1	n	4097	0	3876	101	0
1	o	4097	0	3876	105	0
1	p	4097	0	3876	106	0
1	q	4097	0	3876	111	0
1	r	4097	0	3876	107	0
1	s	4097	0	3876	111	0
1	t	4097	0	3876	113	0
1	u	4097	0	3876	111	0
1	v	4097	0	3876	115	0
1	w	4097	0	3876	107	0
1	x	4097	0	3876	115	0
1	y	4097	0	3876	111	0
1	z	4097	0	3876	110	0
2	1	21	0	12	0	0
2	2	21	0	12	0	0
2	3	21	0	12	0	0
2	4	21	0	12	0	0
2	5	21	0	12	0	0
2	6	21	0	12	0	0
2	7	21	0	12	0	0
2	8	21	0	12	0	0
2	A	21	0	12	0	0
2	B	21	0	12	0	0
2	C	21	0	12	0	0
2	D	21	0	12	0	0
2	E	21	0	12	0	0
2	F	21	0	12	0	0
2	G	21	0	12	0	0
2	H	21	0	12	0	0
2	I	21	0	12	0	0
2	J	21	0	12	0	0
2	K	21	0	12	0	0
2	L	21	0	12	0	0
2	M	21	0	12	0	0
2	N	21	0	12	0	0
2	O	21	0	12	0	0
2	P	21	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Q	21	0	12	0	0
2	R	21	0	12	0	0
2	S	21	0	12	0	0
2	T	21	0	12	0	0
2	U	21	0	12	0	0
2	V	21	0	12	0	0
2	W	21	0	12	0	0
2	X	21	0	12	0	0
2	Y	21	0	12	0	0
2	Z	21	0	12	0	0
2	a	21	0	12	0	0
2	b	21	0	12	0	0
2	c	21	0	12	0	0
2	d	21	0	12	0	0
2	e	21	0	12	0	0
2	f	21	0	12	0	0
2	g	21	0	12	0	0
2	h	21	0	12	0	0
2	i	21	0	12	0	0
2	j	21	0	12	0	0
2	k	21	0	12	0	0
2	l	21	0	12	0	0
2	m	21	0	12	0	0
2	n	21	0	12	0	0
2	o	21	0	12	0	0
2	p	21	0	12	0	0
2	q	21	0	12	0	0
2	r	21	0	12	0	0
2	s	21	0	12	0	0
2	t	21	0	12	0	0
2	u	21	0	12	0	0
2	v	21	0	12	0	0
2	w	21	0	12	0	0
2	x	21	0	12	0	0
2	y	21	0	12	0	0
2	z	21	0	12	0	0
All	All	247080	0	233280	5004	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 10.

All (5004) 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:t:687:THR:O	1:t:710[A]:ARG:NH1	1.99	0.95
1:w:687:THR:O	1:w:710[A]:ARG:NH1	1.99	0.94
1:k:687:THR:O	1:k:710[A]:ARG:NH1	2.02	0.93
1:6:687:THR:O	1:6:710[A]:ARG:NH1	2.02	0.93
1:2:687:THR:O	1:2:710[A]:ARG:NH1	2.06	0.89
1:r:687:THR:O	1:r:710[A]:ARG:NH1	2.06	0.88
1:K:367:THR:HG21	1:K:384:ALA:H	1.47	0.80
1:L:367:THR:HG21	1:L:384:ALA:H	1.47	0.80
1:l:367:THR:HG21	1:l:384:ALA:H	1.47	0.80
1:4:367:THR:HG21	1:4:384:ALA:H	1.47	0.80
1:7:367:THR:HG21	1:7:384:ALA:H	1.47	0.80
1:O:367:THR:HG21	1:O:384:ALA:H	1.47	0.80
1:Y:367:THR:HG21	1:Y:384:ALA:H	1.47	0.80
1:z:367:THR:HG21	1:z:384:ALA:H	1.47	0.80
1:B:367:THR:HG21	1:B:384:ALA:H	1.47	0.80
1:I:367:THR:HG21	1:I:384:ALA:H	1.47	0.80
1:V:367:THR:HG21	1:V:384:ALA:H	1.47	0.80
1:W:367:THR:HG21	1:W:384:ALA:H	1.47	0.80
1:p:367:THR:HG21	1:p:384:ALA:H	1.47	0.80
1:u:367:THR:HG21	1:u:384:ALA:H	1.47	0.80
1:1:367:THR:HG21	1:1:384:ALA:H	1.47	0.80
1:c:367:THR:HG21	1:c:384:ALA:H	1.47	0.79
1:6:367:THR:HG21	1:6:384:ALA:H	1.47	0.79
1:a:367:THR:HG21	1:a:384:ALA:H	1.47	0.79
1:e:367:THR:HG21	1:e:384:ALA:H	1.47	0.79
1:i:367:THR:HG21	1:i:384:ALA:H	1.47	0.79
1:3:367:THR:HG21	1:3:384:ALA:H	1.47	0.79
1:N:367:THR:HG21	1:N:384:ALA:H	1.47	0.79
1:D:325:THR:O	1:D:397:ARG:NH1	2.16	0.79
1:E:325:THR:O	1:E:397:ARG:NH1	2.16	0.79
1:E:367:THR:HG21	1:E:384:ALA:H	1.47	0.79
1:v:325:THR:O	1:v:397:ARG:NH1	2.16	0.79
1:A:325:THR:O	1:A:397:ARG:NH1	2.16	0.79
1:J:325:THR:O	1:J:397:ARG:NH1	2.16	0.79
1:T:367:THR:HG21	1:T:384:ALA:H	1.47	0.79
1:V:325:THR:O	1:V:397:ARG:NH1	2.16	0.79
1:k:325:THR:O	1:k:397:ARG:NH1	2.16	0.79
1:l:325:THR:O	1:l:397:ARG:NH1	2.16	0.79
1:w:325:THR:O	1:w:397:ARG:NH1	2.16	0.79
1:2:325:THR:O	1:2:397:ARG:NH1	2.16	0.79
1:8:367:THR:HG21	1:8:384:ALA:H	1.47	0.79
1:N:325:THR:O	1:N:397:ARG:NH1	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:325:THR:O	1:O:397:ARG:NH1	2.16	0.79
1:S:367:THR:HG21	1:S:384:ALA:H	1.47	0.79
1:U:325:THR:O	1:U:397:ARG:NH1	2.16	0.79
1:Z:367:THR:HG21	1:Z:384:ALA:H	1.47	0.79
1:i:325:THR:O	1:i:397:ARG:NH1	2.16	0.79
1:p:325:THR:O	1:p:397:ARG:NH1	2.16	0.79
1:s:325:THR:O	1:s:397:ARG:NH1	2.16	0.79
1:y:367:THR:HG21	1:y:384:ALA:H	1.47	0.79
1:5:325:THR:O	1:5:397:ARG:NH1	2.16	0.79
1:H:325:THR:O	1:H:397:ARG:NH1	2.16	0.79
1:X:325:THR:O	1:X:397:ARG:NH1	2.16	0.79
1:b:325:THR:O	1:b:397:ARG:NH1	2.16	0.79
1:f:325:THR:O	1:f:397:ARG:NH1	2.16	0.79
1:o:325:THR:O	1:o:397:ARG:NH1	2.16	0.79
1:v:684:ILE:HG23	1:y:690[B]:PHE:CZ	2.18	0.79
1:w:367:THR:HG21	1:w:384:ALA:H	1.47	0.79
1:2:367:THR:HG21	1:2:384:ALA:H	1.47	0.79
1:I:325:THR:O	1:I:397:ARG:NH1	2.16	0.79
1:h:367:THR:HG21	1:h:384:ALA:H	1.47	0.79
1:k:367:THR:HG21	1:k:384:ALA:H	1.47	0.79
1:m:367:THR:HG21	1:m:384:ALA:H	1.47	0.79
1:r:367:THR:HG21	1:r:384:ALA:H	1.47	0.79
1:C:325:THR:O	1:C:397:ARG:NH1	2.16	0.79
1:D:367:THR:HG21	1:D:384:ALA:H	1.47	0.79
1:J:367:THR:HG21	1:J:384:ALA:H	1.47	0.79
1:W:325:THR:O	1:W:397:ARG:NH1	2.16	0.79
1:g:325:THR:O	1:g:397:ARG:NH1	2.16	0.79
1:j:367:THR:HG21	1:j:384:ALA:H	1.47	0.79
1:l:325:THR:O	1:l:397:ARG:NH1	2.16	0.79
1:A:367:THR:HG21	1:A:384:ALA:H	1.47	0.78
1:B:325:THR:O	1:B:397:ARG:NH1	2.16	0.78
1:L:325:THR:O	1:L:397:ARG:NH1	2.16	0.78
1:P:325:THR:O	1:P:397:ARG:NH1	2.16	0.78
1:P:367:THR:HG21	1:P:384:ALA:H	1.47	0.78
1:u:325:THR:O	1:u:397:ARG:NH1	2.16	0.78
1:z:325:THR:O	1:z:397:ARG:NH1	2.16	0.78
1:6:325:THR:O	1:6:397:ARG:NH1	2.16	0.78
1:F:367:THR:HG21	1:F:384:ALA:H	1.47	0.78
1:d:325:THR:O	1:d:397:ARG:NH1	2.16	0.78
1:g:367:THR:HG21	1:g:384:ALA:H	1.47	0.78
1:n:325:THR:O	1:n:397:ARG:NH1	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:690[B]:PHE:CZ	1:y:684:ILE:HG23	2.18	0.78
1:C:367:THR:HG21	1:C:384:ALA:H	1.47	0.78
1:R:325:THR:O	1:R:397:ARG:NH1	2.16	0.78
1:c:325:THR:O	1:c:397:ARG:NH1	2.16	0.78
1:j:325:THR:O	1:j:397:ARG:NH1	2.16	0.78
1:v:367:THR:HG21	1:v:384:ALA:H	1.47	0.78
1:7:325:THR:O	1:7:397:ARG:NH1	2.16	0.78
1:K:325:THR:O	1:K:397:ARG:NH1	2.16	0.78
1:M:367:THR:HG21	1:M:384:ALA:H	1.47	0.78
1:Q:367:THR:HG21	1:Q:384:ALA:H	1.47	0.78
1:Y:325:THR:O	1:Y:397:ARG:NH1	2.16	0.78
1:Z:325:THR:O	1:Z:397:ARG:NH1	2.16	0.78
1:e:325:THR:O	1:e:397:ARG:NH1	2.16	0.78
1:q:325:THR:O	1:q:397:ARG:NH1	2.16	0.78
1:5:367:THR:HG21	1:5:384:ALA:H	1.47	0.78
1:8:325:THR:O	1:8:397:ARG:NH1	2.16	0.78
1:H:367:THR:HG21	1:H:384:ALA:H	1.47	0.78
1:f:367:THR:HG21	1:f:384:ALA:H	1.47	0.78
1:r:325:THR:O	1:r:397:ARG:NH1	2.16	0.78
1:M:325:THR:O	1:M:397:ARG:NH1	2.16	0.78
1:R:367:THR:HG21	1:R:384:ALA:H	1.47	0.78
1:S:325:THR:O	1:S:397:ARG:NH1	2.16	0.78
1:a:325:THR:O	1:a:397:ARG:NH1	2.16	0.78
1:y:325:THR:O	1:y:397:ARG:NH1	2.16	0.78
1:3:325:THR:O	1:3:397:ARG:NH1	2.16	0.78
1:4:325:THR:O	1:4:397:ARG:NH1	2.16	0.78
1:F:325:THR:O	1:F:397:ARG:NH1	2.16	0.78
1:G:325:THR:O	1:G:397:ARG:NH1	2.16	0.78
1:Q:325:THR:O	1:Q:397:ARG:NH1	2.16	0.78
1:b:367:THR:HG21	1:b:384:ALA:H	1.47	0.78
1:q:367:THR:HG21	1:q:384:ALA:H	1.47	0.78
1:h:325:THR:O	1:h:397:ARG:NH1	2.16	0.78
1:n:367:THR:HG21	1:n:384:ALA:H	1.47	0.78
1:s:367:THR:HG21	1:s:384:ALA:H	1.47	0.78
1:t:325:THR:O	1:t:397:ARG:NH1	2.16	0.78
1:x:325:THR:O	1:x:397:ARG:NH1	2.16	0.78
1:U:367:THR:HG21	1:U:384:ALA:H	1.47	0.78
1:x:367:THR:HG21	1:x:384:ALA:H	1.47	0.78
1:G:367:THR:HG21	1:G:384:ALA:H	1.47	0.77
1:d:367:THR:HG21	1:d:384:ALA:H	1.47	0.77
1:o:367:THR:HG21	1:o:384:ALA:H	1.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:325:THR:O	1:T:397:ARG:NH1	2.16	0.77
1:m:325:THR:O	1:m:397:ARG:NH1	2.16	0.77
1:t:367:THR:HG21	1:t:384:ALA:H	1.47	0.77
1:X:367:THR:HG21	1:X:384:ALA:H	1.47	0.77
1:o:690[B]:PHE:CZ	1:6:684:ILE:HG23	2.20	0.76
1:h:690[B]:PHE:CZ	1:k:684:ILE:HG23	2.20	0.76
1:a:439:ASP:O	1:8:487:THR:N	2.19	0.75
1:u:439:ASP:O	1:v:487:THR:N	2.19	0.75
1:j:439:ASP:O	1:k:487:THR:N	2.20	0.75
1:z:439:ASP:O	1:1:487:THR:N	2.19	0.75
1:g:487:THR:N	1:h:439:ASP:O	2.19	0.74
1:t:487:THR:N	1:v:439:ASP:O	2.19	0.74
1:w:487:THR:N	1:y:439:ASP:O	2.19	0.74
1:d:439:ASP:O	1:l:487:THR:N	2.19	0.74
1:q:487:THR:N	1:s:439:ASP:O	2.19	0.74
1:t:439:ASP:O	1:u:487:THR:N	2.21	0.74
1:R:235:ARG:NH1	1:R:351:PRO:O	2.19	0.74
1:o:439:ASP:O	1:p:487:THR:N	2.19	0.74
1:q:235:ARG:NH1	1:q:351:PRO:O	2.20	0.74
1:L:289:ASN:HD21	1:L:686:TYR:H	1.36	0.74
1:R:289:ASN:HD21	1:R:686:TYR:H	1.36	0.74
1:q:289:ASN:HD21	1:q:686:TYR:H	1.36	0.74
1:N:289:ASN:HD21	1:N:686:TYR:H	1.36	0.73
1:i:439:ASP:O	1:j:487:THR:N	2.20	0.73
1:x:439:ASP:O	1:y:487:THR:N	2.19	0.73
1:z:289:ASN:HD21	1:z:686:TYR:H	1.36	0.73
1:F:235:ARG:NH1	1:F:351:PRO:O	2.19	0.73
1:1:289:ASN:HD21	1:1:686:TYR:H	1.36	0.73
1:3:487:THR:N	1:4:439:ASP:O	2.21	0.73
1:i:289:ASN:HD21	1:i:686:TYR:H	1.36	0.73
1:y:235:ARG:NH1	1:y:351:PRO:O	2.20	0.73
1:H:652:ILE:HD12	1:Z:357:VAL:HG12	1.71	0.73
1:M:289:ASN:HD21	1:M:686:TYR:H	1.36	0.73
1:Q:289:ASN:HD21	1:Q:686:TYR:H	1.36	0.73
1:Z:439:ASP:O	1:4:487:THR:N	2.22	0.73
1:1:439:ASP:O	1:2:487:THR:N	2.22	0.73
1:3:289:ASN:HD21	1:3:686:TYR:H	1.36	0.73
1:a:289:ASN:HD21	1:a:686:TYR:H	1.36	0.73
1:d:289:ASN:HD21	1:d:686:TYR:H	1.36	0.73
1:e:289:ASN:HD21	1:e:686:TYR:H	1.36	0.73
1:n:289:ASN:HD21	1:n:686:TYR:H	1.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:235:ARG:NH1	1:p:351:PRO:O	2.20	0.73
1:B:289:ASN:HD21	1:B:686:TYR:H	1.36	0.73
1:V:235:ARG:NH1	1:V:351:PRO:O	2.19	0.73
1:c:289:ASN:HD21	1:c:686:TYR:H	1.36	0.73
1:h:289:ASN:HD21	1:h:686:TYR:H	1.36	0.73
1:o:235:ARG:NH1	1:o:351:PRO:O	2.19	0.73
1:t:684:ILE:HG23	1:5:690[B]:PHE:CZ	2.24	0.73
1:w:289:ASN:HD21	1:w:686:TYR:H	1.36	0.73
1:5:439:ASP:O	1:6:487:THR:N	2.20	0.73
1:X:289:ASN:HD21	1:X:686:TYR:H	1.36	0.73
1:o:289:ASN:HD21	1:o:686:TYR:H	1.36	0.73
1:x:289:ASN:HD21	1:x:686:TYR:H	1.36	0.73
1:E:289:ASN:HD21	1:E:686:TYR:H	1.36	0.73
1:R:652:ILE:HD12	1:V:357:VAL:HG12	1.71	0.73
1:A:289:ASN:HD21	1:A:686:TYR:H	1.36	0.72
1:k:235:ARG:NH1	1:k:351:PRO:O	2.19	0.72
1:l:289:ASN:HD21	1:l:686:TYR:H	1.36	0.72
1:O:289:ASN:HD21	1:O:686:TYR:H	1.36	0.72
1:U:289:ASN:HD21	1:U:686:TYR:H	1.36	0.72
1:k:289:ASN:HD21	1:k:686:TYR:H	1.36	0.72
1:w:439:ASP:O	1:x:487:THR:N	2.21	0.72
1:D:235:ARG:NH1	1:D:351:PRO:O	2.19	0.72
1:U:235:ARG:NH1	1:U:351:PRO:O	2.19	0.72
1:Y:289:ASN:HD21	1:Y:686:TYR:H	1.36	0.72
1:g:289:ASN:HD21	1:g:686:TYR:H	1.36	0.72
1:j:690[B]:PHE:CZ	1:w:684:ILE:HG23	2.24	0.72
1:s:289:ASN:HD21	1:s:686:TYR:H	1.36	0.72
1:v:289:ASN:HD21	1:v:686:TYR:H	1.36	0.72
1:D:289:ASN:HD21	1:D:686:TYR:H	1.36	0.72
1:s:235:ARG:NH1	1:s:351:PRO:O	2.19	0.72
1:4:289:ASN:HD21	1:4:686:TYR:H	1.36	0.72
1:A:652:ILE:HD12	1:B:357:VAL:HG12	1.71	0.72
1:H:235:ARG:NH1	1:H:351:PRO:O	2.19	0.72
1:M:235:ARG:NH1	1:M:351:PRO:O	2.19	0.72
1:O:439:ASP:O	1:m:487:THR:N	2.21	0.72
1:P:289:ASN:HD21	1:P:686:TYR:H	1.36	0.72
1:j:289:ASN:HD21	1:j:686:TYR:H	1.36	0.72
1:t:249:GLN:OE1	1:y:695:ASN:ND2	2.23	0.72
1:w:235:ARG:NH1	1:w:351:PRO:O	2.19	0.72
1:C:289:ASN:HD21	1:C:686:TYR:H	1.36	0.72
1:E:235:ARG:NH1	1:E:351:PRO:O	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:367:THR:HG22	1:R:368:LEU:H	1.55	0.72
1:V:439:ASP:O	1:e:487:THR:N	2.21	0.72
1:f:235:ARG:NH1	1:f:351:PRO:O	2.20	0.72
1:7:289:ASN:HD21	1:7:686:TYR:H	1.36	0.72
1:J:439:ASP:O	1:L:487:THR:N	2.23	0.72
1:K:289:ASN:HD21	1:K:686:TYR:H	1.36	0.72
1:b:235:ARG:NH1	1:b:351:PRO:O	2.19	0.72
1:v:695:ASN:ND2	1:w:249:GLN:OE1	2.23	0.72
1:5:235:ARG:NH1	1:5:351:PRO:O	2.19	0.72
1:C:439:ASP:O	1:b:487:THR:N	2.22	0.72
1:G:289:ASN:HD21	1:G:686:TYR:H	1.36	0.72
1:G:367:THR:HG22	1:G:368:LEU:H	1.55	0.72
1:T:235:ARG:NH1	1:T:351:PRO:O	2.20	0.72
1:m:289:ASN:HD21	1:m:686:TYR:H	1.36	0.72
1:q:367:THR:HG22	1:q:368:LEU:H	1.55	0.72
1:t:289:ASN:HD21	1:t:686:TYR:H	1.36	0.72
1:y:289:ASN:HD21	1:y:686:TYR:H	1.36	0.72
1:B:367:THR:HG22	1:B:368:LEU:H	1.55	0.72
1:F:289:ASN:HD21	1:F:686:TYR:H	1.36	0.72
1:S:367:THR:HG22	1:S:368:LEU:H	1.55	0.72
1:Y:235:ARG:NH1	1:Y:351:PRO:O	2.20	0.72
1:c:235:ARG:NH1	1:c:351:PRO:O	2.19	0.72
1:h:235:ARG:NH1	1:h:351:PRO:O	2.19	0.72
1:m:439:ASP:O	1:n:487:THR:N	2.21	0.72
1:t:367:THR:HG22	1:t:368:LEU:H	1.55	0.72
1:A:357:VAL:HG12	1:E:652:ILE:HD12	1.72	0.72
1:C:652:ILE:HD12	1:D:357:VAL:HG12	1.72	0.72
1:D:439:ASP:O	1:N:487:THR:N	2.22	0.72
1:H:367:THR:HG22	1:H:368:LEU:H	1.55	0.72
1:m:235:ARG:NH1	1:m:351:PRO:O	2.19	0.72
1:x:367:THR:HG22	1:x:368:LEU:H	1.55	0.72
1:5:367:THR:HG22	1:5:368:LEU:H	1.55	0.72
1:5:487:THR:N	1:7:439:ASP:O	2.20	0.72
1:B:439:ASP:O	1:J:487:THR:N	2.23	0.71
1:P:367:THR:HG22	1:P:368:LEU:H	1.55	0.71
1:T:289:ASN:HD21	1:T:686:TYR:H	1.36	0.71
1:r:367:THR:HG22	1:r:368:LEU:H	1.55	0.71
1:1:367:THR:HG22	1:1:368:LEU:H	1.55	0.71
1:6:235:ARG:NH1	1:6:351:PRO:O	2.19	0.71
1:7:235:ARG:NH1	1:7:351:PRO:O	2.19	0.71
1:A:367:THR:HG22	1:A:368:LEU:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:487:THR:N	1:8:439:ASP:O	2.23	0.71
1:N:235:ARG:NH1	1:N:351:PRO:O	2.20	0.71
1:O:357:VAL:HG12	1:P:652:ILE:HD12	1.73	0.71
1:Q:367:THR:HG22	1:Q:368:LEU:H	1.55	0.71
1:V:652:ILE:HD12	1:W:357:VAL:HG12	1.72	0.71
1:c:367:THR:HG22	1:c:368:LEU:H	1.55	0.71
1:i:235:ARG:NH1	1:i:351:PRO:O	2.19	0.71
1:q:695:ASN:ND2	1:y:249:GLN:OE1	2.23	0.71
1:v:367:THR:HG22	1:v:368:LEU:H	1.55	0.71
1:z:367:THR:HG22	1:z:368:LEU:H	1.55	0.71
1:N:367:THR:HG22	1:N:368:LEU:H	1.55	0.71
1:W:235:ARG:NH1	1:W:351:PRO:O	2.19	0.71
1:e:235:ARG:NH1	1:e:351:PRO:O	2.19	0.71
1:e:367:THR:HG22	1:e:368:LEU:H	1.55	0.71
1:g:684:ILE:HG23	1:z:690[B]:PHE:CZ	2.26	0.71
1:n:235:ARG:NH1	1:n:351:PRO:O	2.19	0.71
1:L:367:THR:HG22	1:L:368:LEU:H	1.55	0.71
1:W:367:THR:HG22	1:W:368:LEU:H	1.55	0.71
1:X:367:THR:HG22	1:X:368:LEU:H	1.55	0.71
1:u:249:GLN:OE1	1:5:695:ASN:ND2	2.23	0.71
1:D:367:THR:HG22	1:D:368:LEU:H	1.55	0.71
1:M:367:THR:HG22	1:M:368:LEU:H	1.55	0.71
1:T:367:THR:HG22	1:T:368:LEU:H	1.55	0.71
1:j:367:THR:HG22	1:j:368:LEU:H	1.55	0.71
1:o:367:THR:HG22	1:o:368:LEU:H	1.55	0.71
1:z:487:THR:N	1:2:439:ASP:O	2.23	0.71
1:K:235:ARG:NH1	1:K:351:PRO:O	2.20	0.71
1:d:235:ARG:NH1	1:d:351:PRO:O	2.19	0.71
1:i:367:THR:HG22	1:i:368:LEU:H	1.55	0.71
1:k:249:GLN:OE1	1:w:695:ASN:ND2	2.24	0.71
1:q:439:ASP:O	1:r:487:THR:N	2.22	0.71
1:I:367:THR:HG22	1:I:368:LEU:H	1.55	0.71
1:k:367:THR:HG22	1:k:368:LEU:H	1.55	0.71
1:m:367:THR:HG22	1:m:368:LEU:H	1.55	0.71
1:u:235:ARG:NH1	1:u:351:PRO:O	2.19	0.71
1:u:367:THR:HG22	1:u:368:LEU:H	1.55	0.71
1:n:367:THR:HG22	1:n:368:LEU:H	1.55	0.71
1:4:235:ARG:NH1	1:4:351:PRO:O	2.19	0.71
1:6:367:THR:HG22	1:6:368:LEU:H	1.55	0.71
1:F:367:THR:HG22	1:F:368:LEU:H	1.55	0.71
1:I:235:ARG:NH1	1:I:351:PRO:O	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:652:ILE:HD12	1:d:357:VAL:HG12	1.73	0.71
1:P:235:ARG:NH1	1:P:351:PRO:O	2.19	0.71
1:Z:367:THR:HG22	1:Z:368:LEU:H	1.55	0.71
1:a:367:THR:HG22	1:a:368:LEU:H	1.55	0.71
1:h:367:THR:HG22	1:h:368:LEU:H	1.55	0.71
1:j:695:ASN:ND2	1:x:249:GLN:OE1	2.23	0.71
1:r:289:ASN:HD21	1:r:686:TYR:H	1.36	0.71
1:v:249:GLN:OE1	1:l:695:ASN:ND2	2.23	0.71
1:y:367:THR:HG22	1:y:368:LEU:H	1.55	0.71
1:3:367:THR:HG22	1:3:368:LEU:H	1.55	0.71
1:d:367:THR:HG22	1:d:368:LEU:H	1.55	0.71
1:F:652:ILE:HD12	1:R:357:VAL:HG12	1.71	0.70
1:G:357:VAL:HG12	1:W:652:ILE:HD12	1.73	0.70
1:j:235:ARG:NH1	1:j:351:PRO:O	2.19	0.70
1:p:684:ILE:HG23	1:s:690[B]:PHE:CZ	2.26	0.70
1:8:367:THR:HG22	1:8:368:LEU:H	1.55	0.70
1:C:367:THR:HG22	1:C:368:LEU:H	1.55	0.70
1:S:289:ASN:HD21	1:S:686:TYR:H	1.36	0.70
1:E:367:THR:HG22	1:E:368:LEU:H	1.55	0.70
1:I:289:ASN:HD21	1:I:686:TYR:H	1.36	0.70
1:Z:289:ASN:HD21	1:Z:686:TYR:H	1.36	0.70
1:f:439:ASP:O	1:h:487:THR:N	2.22	0.70
1:g:367:THR:HG22	1:g:368:LEU:H	1.55	0.70
1:p:289:ASN:HD21	1:p:686:TYR:H	1.36	0.70
1:r:235:ARG:NH1	1:r:351:PRO:O	2.20	0.70
1:6:289:ASN:HD21	1:6:686:TYR:H	1.36	0.70
1:W:289:ASN:HD21	1:W:686:TYR:H	1.36	0.70
1:Z:652:ILE:HD12	1:a:357:VAL:HG12	1.74	0.70
1:b:289:ASN:HD21	1:b:686:TYR:H	1.36	0.70
1:g:695:ASN:ND2	1:l:249:GLN:OE1	2.25	0.70
1:p:367:THR:HG22	1:p:368:LEU:H	1.55	0.70
1:w:367:THR:HG22	1:w:368:LEU:H	1.55	0.70
1:8:289:ASN:HD21	1:8:686:TYR:H	1.36	0.70
1:S:235:ARG:NH1	1:S:351:PRO:O	2.19	0.70
1:S:439:ASP:O	1:U:487:THR:N	2.23	0.70
1:V:289:ASN:HD21	1:V:686:TYR:H	1.36	0.70
1:c:439:ASP:O	1:o:487:THR:N	2.22	0.70
1:f:289:ASN:HD21	1:f:686:TYR:H	1.36	0.70
1:B:652:ILE:HD12	1:C:357:VAL:HG12	1.71	0.70
1:G:439:ASP:O	1:I:487:THR:N	2.24	0.70
1:K:367:THR:HG22	1:K:368:LEU:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:357:VAL:HG12	1:Q:652:ILE:HD12	1.74	0.70
1:V:367:THR:HG22	1:V:368:LEU:H	1.55	0.70
1:f:367:THR:HG22	1:f:368:LEU:H	1.55	0.70
1:2:289:ASN:HD21	1:2:686:TYR:H	1.36	0.70
1:T:487:THR:N	1:l:439:ASP:O	2.23	0.70
1:Y:367:THR:HG22	1:Y:368:LEU:H	1.55	0.70
1:t:235:ARG:NH1	1:t:351:PRO:O	2.19	0.70
1:7:367:THR:HG22	1:7:368:LEU:H	1.55	0.70
1:C:235:ARG:NH1	1:C:351:PRO:O	2.19	0.70
1:F:357:VAL:HG12	1:G:652:ILE:HD12	1.72	0.70
1:G:235:ARG:NH1	1:G:351:PRO:O	2.19	0.70
1:H:289:ASN:HD21	1:H:686:TYR:H	1.36	0.70
1:O:367:THR:HG22	1:O:368:LEU:H	1.55	0.70
1:g:235:ARG:NH1	1:g:351:PRO:O	2.19	0.70
1:t:695:ASN:ND2	1:6:249:GLN:OE1	2.24	0.70
1:z:235:ARG:NH1	1:z:351:PRO:O	2.19	0.70
1:4:367:THR:HG22	1:4:368:LEU:H	1.55	0.70
1:5:289:ASN:HD21	1:5:686:TYR:H	1.36	0.70
1:J:289:ASN:HD21	1:J:686:TYR:H	1.36	0.70
1:O:235:ARG:NH1	1:O:351:PRO:O	2.19	0.70
1:U:367:THR:HG22	1:U:368:LEU:H	1.55	0.70
1:b:367:THR:HG22	1:b:368:LEU:H	1.55	0.70
1:f:487:THR:N	1:g:439:ASP:O	2.24	0.70
1:l:367:THR:HG22	1:l:368:LEU:H	1.55	0.70
1:A:235:ARG:NH1	1:A:351:PRO:O	2.19	0.70
1:I:357:VAL:HG12	1:J:652:ILE:HD12	1.74	0.70
1:i:487:THR:N	1:k:439:ASP:O	2.23	0.70
1:l:235:ARG:NH1	1:l:351:PRO:O	2.19	0.70
1:o:695:ASN:ND2	1:7:249:GLN:OE1	2.25	0.70
1:D:487:THR:N	1:P:439:ASP:O	2.25	0.69
1:a:235:ARG:NH1	1:a:351:PRO:O	2.19	0.69
1:u:289:ASN:HD21	1:u:686:TYR:H	1.36	0.69
1:x:235:ARG:NH1	1:x:351:PRO:O	2.19	0.69
1:H:357:VAL:HG12	1:I:652:ILE:HD12	1.74	0.69
1:L:235:ARG:NH1	1:L:351:PRO:O	2.19	0.69
1:c:487:THR:N	1:p:439:ASP:O	2.24	0.69
1:s:367:THR:HG22	1:s:368:LEU:H	1.55	0.69
1:v:235:ARG:NH1	1:v:351:PRO:O	2.20	0.69
1:3:235:ARG:NH1	1:3:351:PRO:O	2.19	0.69
1:A:439:ASP:O	1:G:487:THR:N	2.25	0.69
1:Q:235:ARG:NH1	1:Q:351:PRO:O	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:439:ASP:O	1:s:487:THR:N	2.23	0.69
1:u:695:ASN:ND2	1:2:249:GLN:OE1	2.24	0.69
1:z:249:GLN:OE1	1:4:695:ASN:ND2	2.25	0.69
1:E:439:ASP:O	1:Q:487:THR:N	2.23	0.69
1:m:695:ASN:ND2	1:s:249:GLN:OE1	2.25	0.69
1:5:249:GLN:OE1	1:8:695:ASN:ND2	2.26	0.69
1:K:439:ASP:O	1:a:487:THR:N	2.25	0.69
1:n:249:GLN:OE1	1:r:695:ASN:ND2	2.26	0.69
1:r:249:GLN:OE1	1:x:695:ASN:ND2	2.24	0.69
1:J:235:ARG:NH1	1:J:351:PRO:O	2.19	0.69
1:R:439:ASP:O	1:S:487:THR:N	2.23	0.69
1:S:357:VAL:HG12	1:d:652:ILE:HD12	1.75	0.69
1:T:652:ILE:HD12	1:i:357:VAL:HG12	1.75	0.69
1:W:439:ASP:O	1:Y:487:THR:N	2.22	0.69
1:e:695:ASN:ND2	1:h:249:GLN:OE1	2.26	0.69
1:h:695:ASN:ND2	1:i:249:GLN:OE1	2.25	0.69
1:p:249:GLN:OE1	1:6:695:ASN:ND2	2.25	0.69
1:q:684:ILE:HG23	1:x:690[B]:PHE:CZ	2.28	0.69
1:2:235:ARG:NH1	1:2:351:PRO:O	2.20	0.69
1:J:367:THR:HG22	1:J:368:LEU:H	1.55	0.69
1:g:249:GLN:OE1	1:k:695:ASN:ND2	2.25	0.69
1:p:695:ASN:ND2	1:q:249:GLN:OE1	2.25	0.69
1:2:695:ASN:ND2	1:3:249:GLN:OE1	2.26	0.69
1:X:487:THR:N	1:e:439:ASP:O	2.23	0.69
1:u:690[B]:PHE:CZ	1:1:684:ILE:HG23	2.28	0.69
1:2:367:THR:HG22	1:2:368:LEU:H	1.55	0.69
1:M:487:THR:N	1:b:439:ASP:O	2.24	0.68
1:N:439:ASP:O	1:P:487:THR:N	2.25	0.68
1:D:652:ILE:HD12	1:E:357:VAL:HG12	1.73	0.68
1:E:487:THR:N	1:F:439:ASP:O	2.25	0.68
1:T:439:ASP:O	1:d:487:THR:N	2.25	0.68
1:c:652:ILE:HD12	1:s:357:VAL:HG12	1.76	0.68
1:f:249:GLN:OE1	1:z:695:ASN:ND2	2.26	0.68
1:K:357:VAL:HG12	1:L:652:ILE:HD12	1.76	0.68
1:K:652:ILE:HD12	1:7:357:VAL:HG12	1.75	0.68
1:A:487:THR:N	1:I:439:ASP:O	2.26	0.68
1:M:652:ILE:HD12	1:c:357:VAL:HG12	1.75	0.68
1:j:249:GLN:OE1	1:l:695:ASN:ND2	2.26	0.68
1:c:249:GLN:OE1	1:s:695:ASN:ND2	2.26	0.68
1:f:652:ILE:HD12	1:z:357:VAL:HG12	1.76	0.68
1:6:439:ASP:O	1:7:487:THR:N	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:249:GLN:OE1	1:7:695:ASN:ND2	2.27	0.67
1:Z:487:THR:N	1:3:439:ASP:O	2.27	0.67
1:b:695:ASN:ND2	1:o:249:GLN:OE1	2.27	0.67
1:3:695:ASN:ND2	1:8:249:GLN:OE1	2.27	0.67
1:X:652:ILE:HD12	1:f:357:VAL:HG12	1.75	0.67
1:Y:695:ASN:ND2	1:4:249:GLN:OE1	2.28	0.67
1:O:487:THR:N	1:n:439:ASP:O	2.25	0.67
1:S:695:ASN:ND2	1:d:249:GLN:OE1	2.27	0.67
1:X:357:VAL:HG12	1:Y:652:ILE:HD12	1.77	0.67
1:Z:249:GLN:OE1	1:a:695:ASN:ND2	2.27	0.67
1:J:695:ASN:ND2	1:a:249:GLN:OE1	2.27	0.67
1:Q:357:VAL:HG12	1:S:652:ILE:HD12	1.75	0.67
1:o:357:VAL:HG12	1:7:652:ILE:HD12	1.77	0.67
1:H:439:ASP:O	1:W:487:THR:N	2.25	0.67
1:h:357:VAL:HG12	1:i:652:ILE:HD12	1.77	0.67
1:l:249:GLN:OE1	1:n:695:ASN:ND2	2.27	0.67
1:J:357:VAL:HG12	1:a:652:ILE:HD12	1.75	0.67
1:N:357:VAL:HG12	1:m:652:ILE:HD12	1.77	0.67
1:X:235:ARG:NH1	1:X:351:PRO:O	2.19	0.67
1:T:357:VAL:HG12	1:U:652:ILE:HD12	1.76	0.66
1:Z:235:ARG:NH1	1:Z:351:PRO:O	2.19	0.66
1:M:249:GLN:OE1	1:c:695:ASN:ND2	2.28	0.66
1:T:249:GLN:OE1	1:i:695:ASN:ND2	2.27	0.66
1:8:235:ARG:NH1	1:8:351:PRO:O	2.19	0.66
1:R:487:THR:N	1:U:439:ASP:O	2.27	0.66
1:O:249:GLN:OE1	1:d:695:ASN:ND2	2.28	0.66
1:z:652:ILE:HD12	1:4:357:VAL:HG12	1.77	0.66
1:N:695:ASN:ND2	1:m:249:GLN:OE1	2.28	0.66
1:U:357:VAL:HG12	1:e:652:ILE:HD12	1.77	0.66
1:X:249:GLN:OE1	1:f:695:ASN:ND2	2.28	0.66
1:F:487:THR:N	1:Q:439:ASP:O	2.26	0.66
1:C:249:GLN:OE1	1:D:695:ASN:ND2	2.29	0.66
1:M:357:VAL:HG12	1:N:652:ILE:HD12	1.77	0.66
1:e:357:VAL:HG12	1:h:652:ILE:HD12	1.78	0.66
1:z:710[B]:ARG:HB3	1:z:710[B]:ARG:HH11	1.61	0.66
1:f:225:MET:HE3	1:f:228[A]:ARG:HB2	1.78	0.66
1:D:249:GLN:OE1	1:E:695:ASN:ND2	2.29	0.65
1:H:487:THR:N	1:Y:439:ASP:O	2.25	0.65
1:L:357:VAL:HG12	1:b:652:ILE:HD12	1.77	0.65
1:C:487:THR:N	1:M:439:ASP:O	2.27	0.65
1:K:695:ASN:ND2	1:L:249:GLN:OE1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:357:VAL:HG12	1:4:652:ILE:HD12	1.77	0.65
1:c:225:MET:HE3	1:c:228[A]:ARG:HB2	1.78	0.65
1:s:710[B]:ARG:HB3	1:s:710[B]:ARG:HH11	1.61	0.65
1:B:235:ARG:NH1	1:B:351:PRO:O	2.19	0.65
1:B:487:THR:N	1:L:439:ASP:O	2.27	0.65
1:U:695:ASN:ND2	1:e:249:GLN:OE1	2.29	0.65
1:b:357:VAL:HG12	1:o:652:ILE:HD12	1.77	0.65
1:V:249:GLN:OE1	1:W:695:ASN:ND2	2.29	0.65
1:1:235:ARG:NH1	1:1:351:PRO:O	2.20	0.65
1:T:695:ASN:ND2	1:U:249:GLN:OE1	2.29	0.65
1:n:652:ILE:HD12	1:r:357:VAL:HG12	1.79	0.65
1:V:487:THR:N	1:X:439:ASP:O	2.27	0.65
1:u:357:VAL:HG12	1:2:652:ILE:HD12	1.79	0.65
1:H:439:ASP:OD1	1:H:440:ALA:N	2.30	0.65
1:Q:695:ASN:ND2	1:S:249:GLN:OE1	2.29	0.65
1:T:439:ASP:OD1	1:T:440:ALA:N	2.30	0.65
1:c:439:ASP:OD1	1:c:440:ALA:N	2.30	0.65
1:i:439:ASP:OD1	1:i:440:ALA:N	2.30	0.65
1:m:357:VAL:HG12	1:s:652:ILE:HD12	1.78	0.65
1:m:439:ASP:OD1	1:m:440:ALA:N	2.30	0.65
1:5:439:ASP:OD1	1:5:440:ALA:N	2.30	0.65
1:I:439:ASP:OD1	1:I:440:ALA:N	2.30	0.65
1:L:695:ASN:ND2	1:b:249:GLN:OE1	2.28	0.65
1:M:439:ASP:OD1	1:M:440:ALA:N	2.30	0.65
1:N:439:ASP:OD1	1:N:440:ALA:N	2.30	0.65
1:X:439:ASP:OD1	1:X:440:ALA:N	2.30	0.65
1:e:439:ASP:OD1	1:e:440:ALA:N	2.30	0.65
1:j:439:ASP:OD1	1:j:440:ALA:N	2.30	0.65
1:D:439:ASP:OD1	1:D:440:ALA:N	2.30	0.65
1:P:439:ASP:OD1	1:P:440:ALA:N	2.30	0.65
1:X:695:ASN:ND2	1:Y:249:GLN:OE1	2.30	0.65
1:k:439:ASP:OD1	1:k:440:ALA:N	2.30	0.65
1:o:439:ASP:OD1	1:o:440:ALA:N	2.30	0.65
1:u:439:ASP:OD1	1:u:440:ALA:N	2.30	0.65
1:G:695:ASN:ND2	1:W:249:GLN:OE1	2.29	0.64
1:g:439:ASP:OD1	1:g:440:ALA:N	2.30	0.64
1:h:439:ASP:OD1	1:h:440:ALA:N	2.30	0.64
1:8:439:ASP:OD1	1:8:440:ALA:N	2.30	0.64
1:C:439:ASP:OD1	1:C:440:ALA:N	2.30	0.64
1:F:439:ASP:OD1	1:F:440:ALA:N	2.30	0.64
1:G:439:ASP:OD1	1:G:440:ALA:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:439:ASP:OD1	1:Z:440:ALA:N	2.30	0.64
1:y:439:ASP:OD1	1:y:440:ALA:N	2.30	0.64
1:3:357:VAL:HG12	1:8:652:ILE:HD12	1.79	0.64
1:A:439:ASP:OD1	1:A:440:ALA:N	2.30	0.64
1:E:439:ASP:OD1	1:E:440:ALA:N	2.30	0.64
1:V:439:ASP:OD1	1:V:440:ALA:N	2.30	0.64
1:a:439:ASP:OD1	1:a:440:ALA:N	2.30	0.64
1:p:439:ASP:OD1	1:p:440:ALA:N	2.30	0.64
1:q:439:ASP:OD1	1:q:440:ALA:N	2.30	0.64
1:t:439:ASP:OD1	1:t:440:ALA:N	2.30	0.64
1:O:439:ASP:OD1	1:O:440:ALA:N	2.30	0.64
1:v:439:ASP:OD1	1:v:440:ALA:N	2.30	0.64
1:3:439:ASP:OD1	1:3:440:ALA:N	2.30	0.64
1:7:439:ASP:OD1	1:7:440:ALA:N	2.30	0.64
1:B:439:ASP:OD1	1:B:440:ALA:N	2.30	0.64
1:M:695:ASN:ND2	1:N:249:GLN:OE1	2.30	0.64
1:R:439:ASP:OD1	1:R:440:ALA:N	2.30	0.64
1:U:439:ASP:OD1	1:U:440:ALA:N	2.30	0.64
1:Y:439:ASP:OD1	1:Y:440:ALA:N	2.30	0.64
1:b:439:ASP:OD1	1:b:440:ALA:N	2.30	0.64
1:l:439:ASP:OD1	1:l:440:ALA:N	2.30	0.64
1:s:439:ASP:OD1	1:s:440:ALA:N	2.30	0.64
1:w:439:ASP:OD1	1:w:440:ALA:N	2.30	0.64
1:1:439:ASP:OD1	1:1:440:ALA:N	2.30	0.64
1:4:439:ASP:OD1	1:4:440:ALA:N	2.30	0.64
1:I:695:ASN:ND2	1:J:249:GLN:OE1	2.30	0.64
1:T:675:GLU:HG3	1:T:717:LEU:HD23	1.80	0.64
1:W:439:ASP:OD1	1:W:440:ALA:N	2.30	0.64
1:f:439:ASP:OD1	1:f:440:ALA:N	2.30	0.64
1:m:675:GLU:HG3	1:m:717:LEU:HD23	1.80	0.64
1:t:675:GLU:HG3	1:t:717:LEU:HD23	1.80	0.64
1:B:675:GLU:HG3	1:B:717:LEU:HD23	1.80	0.64
1:G:675:GLU:HG3	1:G:717:LEU:HD23	1.80	0.64
1:J:439:ASP:OD1	1:J:440:ALA:N	2.30	0.64
1:J:675:GLU:HG3	1:J:717:LEU:HD23	1.80	0.64
1:K:439:ASP:OD1	1:K:440:ALA:N	2.30	0.64
1:1:675:GLU:HG3	1:1:717:LEU:HD23	1.80	0.64
1:2:675:GLU:HG3	1:2:717:LEU:HD23	1.80	0.64
1:6:439:ASP:OD1	1:6:440:ALA:N	2.30	0.64
1:R:249:GLN:OE1	1:V:695:ASN:ND2	2.31	0.64
1:S:439:ASP:OD1	1:S:440:ALA:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:675:GLU:HG3	1:X:717:LEU:HD23	1.80	0.64
1:c:675:GLU:HG3	1:c:717:LEU:HD23	1.80	0.64
1:o:675:GLU:HG3	1:o:717:LEU:HD23	1.80	0.64
1:2:357:VAL:HG12	1:3:652:ILE:HD12	1.79	0.64
1:V:675:GLU:HG3	1:V:717:LEU:HD23	1.80	0.64
1:p:675:GLU:HG3	1:p:717:LEU:HD23	1.80	0.64
1:r:439:ASP:OD1	1:r:440:ALA:N	2.30	0.64
1:z:439:ASP:OD1	1:z:440:ALA:N	2.30	0.64
1:2:439:ASP:OD1	1:2:440:ALA:N	2.30	0.64
1:5:652:ILE:HD12	1:8:357:VAL:HG12	1.80	0.64
1:L:439:ASP:OD1	1:L:440:ALA:N	2.30	0.64
1:S:675:GLU:HG3	1:S:717:LEU:HD23	1.80	0.64
1:d:675:GLU:HG3	1:d:717:LEU:HD23	1.80	0.64
1:e:675:GLU:HG3	1:e:717:LEU:HD23	1.80	0.64
1:j:652:ILE:HD12	1:l:357:VAL:HG12	1.80	0.64
1:n:439:ASP:OD1	1:n:440:ALA:N	2.30	0.64
1:r:675:GLU:HG3	1:r:717:LEU:HD23	1.80	0.64
1:x:439:ASP:OD1	1:x:440:ALA:N	2.30	0.64
1:P:695:ASN:ND2	1:Q:249:GLN:OE1	2.31	0.63
1:Q:439:ASP:OD1	1:Q:440:ALA:N	2.30	0.63
1:d:439:ASP:OD1	1:d:440:ALA:N	2.30	0.63
1:n:675:GLU:HG3	1:n:717:LEU:HD23	1.80	0.63
1:v:675:GLU:HG3	1:v:717:LEU:HD23	1.80	0.63
1:Y:675:GLU:HG3	1:Y:717:LEU:HD23	1.80	0.63
1:A:675:GLU:HG3	1:A:717:LEU:HD23	1.80	0.63
1:L:675:GLU:HG3	1:L:717:LEU:HD23	1.80	0.63
1:O:675:GLU:HG3	1:O:717:LEU:HD23	1.80	0.63
1:j:357:VAL:HG12	1:x:652:ILE:HD12	1.80	0.63
1:z:675:GLU:HG3	1:z:717:LEU:HD23	1.80	0.63
1:7:675:GLU:HG3	1:7:717:LEU:HD23	1.80	0.63
1:H:695:ASN:ND2	1:I:249:GLN:OE1	2.31	0.63
1:a:686:TYR:HE1	1:a:710[B]:ARG:NH2	1.96	0.63
1:l:675:GLU:HG3	1:l:717:LEU:HD23	1.80	0.63
1:r:652:ILE:HD12	1:x:357:VAL:HG12	1.79	0.63
1:a:675:GLU:HG3	1:a:717:LEU:HD23	1.80	0.63
1:l:652:ILE:HD12	1:n:357:VAL:HG12	1.79	0.63
1:v:687:THR:O	1:v:710[A]:ARG:NH1	2.31	0.63
1:O:695:ASN:ND2	1:P:249:GLN:OE1	2.30	0.63
1:y:687:THR:O	1:y:710[A]:ARG:NH1	2.31	0.63
1:3:675:GLU:HG3	1:3:717:LEU:HD23	1.80	0.63
1:K:675:GLU:HG3	1:K:717:LEU:HD23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:675:GLU:HG3	1:R:717:LEU:HD23	1.80	0.63
1:A:249:GLN:OE1	1:B:695:ASN:ND2	2.32	0.63
1:B:249:GLN:OE1	1:C:695:ASN:ND2	2.30	0.63
1:Q:675:GLU:HG3	1:Q:717:LEU:HD23	1.80	0.63
1:d:686:TYR:HE1	1:d:710[B]:ARG:NH2	1.96	0.63
1:h:675:GLU:HG3	1:h:717:LEU:HD23	1.80	0.63
1:q:675:GLU:HG3	1:q:717:LEU:HD23	1.80	0.63
1:4:675:GLU:HG3	1:4:717:LEU:HD23	1.80	0.63
1:p:357:VAL:HG12	1:q:652:ILE:HD12	1.81	0.62
1:x:675:GLU:HG3	1:x:717:LEU:HD23	1.80	0.62
1:E:675:GLU:HG3	1:E:717:LEU:HD23	1.80	0.62
1:M:675:GLU:HG3	1:M:717:LEU:HD23	1.80	0.62
1:g:675:GLU:HG3	1:g:717:LEU:HD23	1.80	0.62
1:w:675:GLU:HG3	1:w:717:LEU:HD23	1.80	0.62
1:6:675:GLU:HG3	1:6:717:LEU:HD23	1.80	0.62
1:C:675:GLU:HG3	1:C:717:LEU:HD23	1.80	0.62
1:F:675:GLU:HG3	1:F:717:LEU:HD23	1.80	0.62
1:W:675:GLU:HG3	1:W:717:LEU:HD23	1.80	0.62
1:Z:346:HIS:CE1	1:3:428:ASN:H	2.17	0.62
1:N:675:GLU:HG3	1:N:717:LEU:HD23	1.80	0.62
1:g:652:ILE:HD12	1:k:357:VAL:HG12	1.81	0.62
1:i:675:GLU:HG3	1:i:717:LEU:HD23	1.80	0.62
1:u:675:GLU:HG3	1:u:717:LEU:HD23	1.80	0.62
1:y:675:GLU:HG3	1:y:717:LEU:HD23	1.80	0.62
1:D:675:GLU:HG3	1:D:717:LEU:HD23	1.80	0.62
1:f:675:GLU:HG3	1:f:717:LEU:HD23	1.80	0.62
1:k:675:GLU:HG3	1:k:717:LEU:HD23	1.80	0.62
1:v:357:VAL:HG12	1:w:652:ILE:HD12	1.81	0.62
1:I:675:GLU:HG3	1:I:717:LEU:HD23	1.80	0.62
1:Z:675:GLU:HG3	1:Z:717:LEU:HD23	1.80	0.62
1:b:675:GLU:HG3	1:b:717:LEU:HD23	1.80	0.62
1:i:346:HIS:CE1	1:k:428:ASN:H	2.18	0.62
1:u:652:ILE:HD12	1:5:357:VAL:HG12	1.80	0.62
1:8:675:GLU:HG3	1:8:717:LEU:HD23	1.80	0.62
1:H:249:GLN:OE1	1:Z:695:ASN:ND2	2.32	0.62
1:H:675:GLU:HG3	1:H:717:LEU:HD23	1.80	0.62
1:5:675:GLU:HG3	1:5:717:LEU:HD23	1.80	0.62
1:F:249:GLN:OE1	1:R:695:ASN:ND2	2.32	0.62
1:F:695:ASN:ND2	1:G:249:GLN:OE1	2.31	0.62
1:t:357:VAL:HG12	1:6:652:ILE:HD12	1.81	0.62
1:j:675:GLU:HG3	1:j:717:LEU:HD23	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:652:ILE:HD12	1:w:357:VAL:HG12	1.81	0.61
1:p:652:ILE:HD12	1:6:357:VAL:HG12	1.81	0.61
1:g:357:VAL:HG12	1:1:652:ILE:HD12	1.81	0.61
1:P:675:GLU:HG3	1:P:717:LEU:HD23	1.80	0.61
1:f:346:HIS:CE1	1:g:428:ASN:H	2.18	0.61
1:p:687:THR:O	1:p:710[A]:ARG:NH1	2.34	0.61
1:v:652:ILE:HD12	1:1:357:VAL:HG12	1.82	0.61
1:A:695:ASN:ND2	1:E:249:GLN:OE1	2.31	0.61
1:q:357:VAL:HG12	1:y:652:ILE:HD12	1.82	0.61
1:U:675:GLU:HG3	1:U:717:LEU:HD23	1.80	0.61
1:s:675:GLU:HG3	1:s:717:LEU:HD23	1.80	0.61
1:t:652:ILE:HD12	1:y:357:VAL:HG12	1.81	0.61
1:O:346:HIS:CE1	1:n:428:ASN:H	2.19	0.61
1:V:346:HIS:CE1	1:X:428:ASN:H	2.19	0.60
1:c:346:HIS:CE1	1:p:428:ASN:H	2.18	0.60
1:D:689:ASN:HB3	1:D:697:GLN:HE21	1.67	0.60
1:J:689:ASN:HB3	1:J:697:GLN:HE21	1.67	0.60
1:j:689:ASN:HB3	1:j:697:GLN:HE21	1.67	0.60
1:k:689:ASN:HB3	1:k:697:GLN:HE21	1.67	0.60
1:2:689:ASN:HB3	1:2:697:GLN:HE21	1.67	0.60
1:6:428:ASN:H	1:7:346:HIS:CE1	2.18	0.60
1:P:689:ASN:HB3	1:P:697:GLN:HE21	1.67	0.60
1:q:428:ASN:H	1:r:346:HIS:CE1	2.20	0.60
1:r:428:ASN:H	1:s:346:HIS:CE1	2.19	0.60
1:t:428:ASN:H	1:u:346:HIS:CE1	2.19	0.60
1:A:689:ASN:HB3	1:A:697:GLN:HE21	1.67	0.60
1:M:689:ASN:HB3	1:M:697:GLN:HE21	1.67	0.60
1:h:689:ASN:HB3	1:h:697:GLN:HE21	1.67	0.60
1:g:687:THR:O	1:g:710[A]:ARG:NH1	2.34	0.60
1:v:689:ASN:HB3	1:v:697:GLN:HE21	1.67	0.60
1:K:689:ASN:HB3	1:K:697:GLN:HE21	1.67	0.60
1:M:456:PHE:HA	1:M:459:TYR:CD2	2.37	0.60
1:R:346:HIS:CE1	1:U:428:ASN:H	2.20	0.60
1:u:689:ASN:HB3	1:u:697:GLN:HE21	1.67	0.60
1:1:428:ASN:H	1:2:346:HIS:CE1	2.20	0.60
1:4:689:ASN:HB3	1:4:697:GLN:HE21	1.67	0.60
1:6:456:PHE:HA	1:6:459:TYR:CD2	2.37	0.60
1:D:456:PHE:HA	1:D:459:TYR:CD2	2.37	0.60
1:I:689:ASN:HB3	1:I:697:GLN:HE21	1.67	0.60
1:W:456:PHE:HA	1:W:459:TYR:CD2	2.37	0.60
1:Z:456:PHE:HA	1:Z:459:TYR:CD2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:456:PHE:HA	1:h:459:TYR:CD2	2.37	0.60
1:k:456:PHE:HA	1:k:459:TYR:CD2	2.37	0.60
1:m:456:PHE:HA	1:m:459:TYR:CD2	2.37	0.60
1:n:689:ASN:HB3	1:n:697:GLN:HE21	1.67	0.60
1:o:689:ASN:HB3	1:o:697:GLN:HE21	1.66	0.60
1:w:428:ASN:H	1:x:346:HIS:CE1	2.19	0.60
1:1:456:PHE:HA	1:1:459:TYR:CD2	2.37	0.60
1:8:456:PHE:HA	1:8:459:TYR:CD2	2.37	0.60
1:B:456:PHE:HA	1:B:459:TYR:CD2	2.37	0.60
1:C:346:HIS:CE1	1:M:428:ASN:H	2.19	0.60
1:H:689:ASN:HB3	1:H:697:GLN:HE21	1.67	0.60
1:O:225:MET:HE3	1:O:228[A]:ARG:HB2	1.83	0.60
1:T:346:HIS:CE1	1:l:428:ASN:H	2.20	0.60
1:T:456:PHE:HA	1:T:459:TYR:CD2	2.37	0.60
1:Y:689:ASN:HB3	1:Y:697:GLN:HE21	1.67	0.60
1:d:689:ASN:HB3	1:d:697:GLN:HE21	1.67	0.60
1:p:456:PHE:HA	1:p:459:TYR:CD2	2.37	0.60
1:x:689:ASN:HB3	1:x:697:GLN:HE21	1.67	0.60
1:F:456:PHE:HA	1:F:459:TYR:CD2	2.37	0.60
1:K:346:HIS:CE1	1:8:428:ASN:H	2.20	0.60
1:L:456:PHE:HA	1:L:459:TYR:CD2	2.37	0.60
1:O:689:ASN:HB3	1:O:697:GLN:HE21	1.67	0.60
1:Q:689:ASN:HB3	1:Q:697:GLN:HE21	1.67	0.60
1:c:689:ASN:HB3	1:c:697:GLN:HE21	1.67	0.60
1:n:456:PHE:HA	1:n:459:TYR:CD2	2.37	0.60
1:z:456:PHE:HA	1:z:459:TYR:CD2	2.37	0.60
1:7:689:ASN:HB3	1:7:697:GLN:HE21	1.67	0.60
1:J:456:PHE:HA	1:J:459:TYR:CD2	2.37	0.59
1:O:456:PHE:HA	1:O:459:TYR:CD2	2.37	0.59
1:V:456:PHE:HA	1:V:459:TYR:CD2	2.37	0.59
1:X:689:ASN:HB3	1:X:697:GLN:HE21	1.67	0.59
1:d:456:PHE:HA	1:d:459:TYR:CD2	2.37	0.59
1:e:689:ASN:HB3	1:e:697:GLN:HE21	1.67	0.59
1:l:456:PHE:HA	1:l:459:TYR:CD2	2.37	0.59
1:l:689:ASN:HB3	1:l:697:GLN:HE21	1.67	0.59
1:z:346:HIS:CE1	1:2:428:ASN:H	2.19	0.59
1:2:456:PHE:HA	1:2:459:TYR:CD2	2.37	0.59
1:5:456:PHE:HA	1:5:459:TYR:CD2	2.37	0.59
1:5:689:ASN:HB3	1:5:697:GLN:HE21	1.67	0.59
1:H:456:PHE:HA	1:H:459:TYR:CD2	2.37	0.59
1:M:269:TYR:HB3	1:M:633:LEU:HD23	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:456:PHE:HA	1:R:459:TYR:CD2	2.37	0.59
1:h:269:TYR:HB3	1:h:633:LEU:HD23	1.85	0.59
1:y:456:PHE:HA	1:y:459:TYR:CD2	2.37	0.59
1:3:456:PHE:HA	1:3:459:TYR:CD2	2.37	0.59
1:8:689:ASN:HB3	1:8:697:GLN:HE21	1.67	0.59
1:B:346:HIS:CE1	1:L:428:ASN:H	2.20	0.59
1:F:269:TYR:HB3	1:F:633:LEU:HD23	1.85	0.59
1:N:456:PHE:HA	1:N:459:TYR:CD2	2.37	0.59
1:a:456:PHE:HA	1:a:459:TYR:CD2	2.37	0.59
1:y:269:TYR:HB3	1:y:633:LEU:HD23	1.85	0.59
1:1:269:TYR:HB3	1:1:633:LEU:HD23	1.85	0.59
1:B:269:TYR:HB3	1:B:633:LEU:HD23	1.85	0.59
1:G:456:PHE:HA	1:G:459:TYR:CD2	2.37	0.59
1:L:269:TYR:HB3	1:L:633:LEU:HD23	1.85	0.59
1:Q:406:TYR:OH	1:Q:627:ASN:O	2.21	0.59
1:T:269:TYR:HB3	1:T:633:LEU:HD23	1.85	0.59
1:T:406:TYR:OH	1:T:627:ASN:O	2.21	0.59
1:V:689:ASN:HB3	1:V:697:GLN:HE21	1.67	0.59
1:W:689:ASN:HB3	1:W:697:GLN:HE21	1.67	0.59
1:Z:689:ASN:HB3	1:Z:697:GLN:HE21	1.67	0.59
1:i:269:TYR:HB3	1:i:633:LEU:HD23	1.85	0.59
1:i:456:PHE:HA	1:i:459:TYR:CD2	2.37	0.59
1:p:689:ASN:HB3	1:p:697:GLN:HE21	1.67	0.59
1:q:456:PHE:HA	1:q:459:TYR:CD2	2.37	0.59
1:t:456:PHE:HA	1:t:459:TYR:CD2	2.37	0.59
1:u:456:PHE:HA	1:u:459:TYR:CD2	2.37	0.59
1:x:406:TYR:OH	1:x:627:ASN:O	2.21	0.59
1:y:689:ASN:HB3	1:y:697:GLN:HE21	1.67	0.59
1:z:269:TYR:HB3	1:z:633:LEU:HD23	1.85	0.59
1:5:269:TYR:HB3	1:5:633:LEU:HD23	1.85	0.59
1:7:269:TYR:HB3	1:7:633:LEU:HD23	1.85	0.59
1:8:269:TYR:HB3	1:8:633:LEU:HD23	1.85	0.59
1:H:269:TYR:HB3	1:H:633:LEU:HD23	1.85	0.59
1:I:269:TYR:HB3	1:I:633:LEU:HD23	1.85	0.59
1:K:428:ASN:H	1:a:346:HIS:CE1	2.21	0.59
1:O:406:TYR:OH	1:O:627:ASN:O	2.21	0.59
1:Y:269:TYR:HB3	1:Y:633:LEU:HD23	1.85	0.59
1:Z:225:MET:HE3	1:Z:228[A]:ARG:HB2	1.84	0.59
1:c:456:PHE:HA	1:c:459:TYR:CD2	2.37	0.59
1:f:689:ASN:HB3	1:f:697:GLN:HE21	1.67	0.59
1:g:689:ASN:HB3	1:g:697:GLN:HE21	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:269:TYR:HB3	1:m:633:LEU:HD23	1.85	0.59
1:m:406:TYR:OH	1:m:627:ASN:O	2.21	0.59
1:u:269:TYR:HB3	1:u:633:LEU:HD23	1.85	0.59
1:3:269:TYR:HB3	1:3:633:LEU:HD23	1.85	0.59
1:3:689:ASN:HB3	1:3:697:GLN:HE21	1.67	0.59
1:4:456:PHE:HA	1:4:459:TYR:CD2	2.37	0.59
1:C:689:ASN:HB3	1:C:697:GLN:HE21	1.67	0.59
1:N:269:TYR:HB3	1:N:633:LEU:HD23	1.85	0.59
1:S:689:ASN:HB3	1:S:697:GLN:HE21	1.67	0.59
1:T:689:ASN:HB3	1:T:697:GLN:HE21	1.67	0.59
1:Z:269:TYR:HB3	1:Z:633:LEU:HD23	1.85	0.59
1:a:269:TYR:HB3	1:a:633:LEU:HD23	1.85	0.59
1:e:456:PHE:HA	1:e:459:TYR:CD2	2.37	0.59
1:j:686:TYR:HE1	1:j:710[A]:ARG:NH2	2.01	0.59
1:l:406:TYR:OH	1:l:627:ASN:O	2.21	0.59
1:q:406:TYR:OH	1:q:627:ASN:O	2.21	0.59
1:w:269:TYR:HB3	1:w:633:LEU:HD23	1.85	0.59
1:1:689:ASN:HB3	1:1:697:GLN:HE21	1.67	0.59
1:6:689:ASN:HB3	1:6:697:GLN:HE21	1.67	0.59
1:B:689:ASN:HB3	1:B:697:GLN:HE21	1.67	0.59
1:C:406:TYR:OH	1:C:627:ASN:O	2.21	0.59
1:F:689:ASN:HB3	1:F:697:GLN:HE21	1.67	0.59
1:G:406:TYR:OH	1:G:627:ASN:O	2.21	0.59
1:I:456:PHE:HA	1:I:459:TYR:CD2	2.37	0.59
1:K:406:TYR:OH	1:K:627:ASN:O	2.21	0.59
1:K:456:PHE:HA	1:K:459:TYR:CD2	2.37	0.59
1:V:269:TYR:HB3	1:V:633:LEU:HD23	1.85	0.59
1:b:689:ASN:HB3	1:b:697:GLN:HE21	1.67	0.59
1:f:269:TYR:HB3	1:f:633:LEU:HD23	1.85	0.59
1:g:406:TYR:OH	1:g:627:ASN:O	2.21	0.59
1:s:406:TYR:OH	1:s:627:ASN:O	2.21	0.59
1:s:689:ASN:HB3	1:s:697:GLN:HE21	1.67	0.59
1:4:406:TYR:OH	1:4:627:ASN:O	2.21	0.59
1:C:456:PHE:HA	1:C:459:TYR:CD2	2.37	0.59
1:E:269:TYR:HB3	1:E:633:LEU:HD23	1.85	0.59
1:R:406:TYR:OH	1:R:627:ASN:O	2.21	0.59
1:U:406:TYR:OH	1:U:627:ASN:O	2.21	0.59
1:W:269:TYR:HB3	1:W:633:LEU:HD23	1.85	0.59
1:a:689:ASN:HB3	1:a:697:GLN:HE21	1.67	0.59
1:d:269:TYR:HB3	1:d:633:LEU:HD23	1.85	0.59
1:g:456:PHE:HA	1:g:459:TYR:CD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:689:ASN:HB3	1:m:697:GLN:HE21	1.67	0.59
1:n:269:TYR:HB3	1:n:633:LEU:HD23	1.85	0.59
1:p:269:TYR:HB3	1:p:633:LEU:HD23	1.85	0.59
1:x:456:PHE:HA	1:x:459:TYR:CD2	2.37	0.59
1:5:686:TYR:HE1	1:5:710[A]:ARG:NH2	2.01	0.59
1:7:456:PHE:HA	1:7:459:TYR:CD2	2.37	0.59
1:E:456:PHE:HA	1:E:459:TYR:CD2	2.37	0.59
1:E:689:ASN:HB3	1:E:697:GLN:HE21	1.67	0.59
1:Q:456:PHE:HA	1:Q:459:TYR:CD2	2.37	0.59
1:U:689:ASN:HB3	1:U:697:GLN:HE21	1.67	0.59
1:Y:456:PHE:HA	1:Y:459:TYR:CD2	2.37	0.59
1:b:269:TYR:HB3	1:b:633:LEU:HD23	1.85	0.59
1:r:689:ASN:HB3	1:r:697:GLN:HE21	1.67	0.59
1:t:269:TYR:HB3	1:t:633:LEU:HD23	1.85	0.59
1:t:406:TYR:OH	1:t:627:ASN:O	2.21	0.59
1:z:406:TYR:OH	1:z:627:ASN:O	2.21	0.59
1:2:269:TYR:HB3	1:2:633:LEU:HD23	1.85	0.59
1:6:269:TYR:HB3	1:6:633:LEU:HD23	1.85	0.59
1:L:406:TYR:OH	1:L:627:ASN:O	2.21	0.59
1:P:456:PHE:HA	1:P:459:TYR:CD2	2.37	0.59
1:S:456:PHE:HA	1:S:459:TYR:CD2	2.37	0.59
1:i:689:ASN:HB3	1:i:697:GLN:HE21	1.67	0.59
1:o:269:TYR:HB3	1:o:633:LEU:HD23	1.85	0.59
1:o:456:PHE:HA	1:o:459:TYR:CD2	2.37	0.59
1:s:456:PHE:HA	1:s:459:TYR:CD2	2.37	0.59
1:w:456:PHE:HA	1:w:459:TYR:CD2	2.37	0.59
1:w:689:ASN:HB3	1:w:697:GLN:HE21	1.67	0.59
1:x:687:THR:O	1:x:710[A]:ARG:NH1	2.34	0.59
1:C:269:TYR:HB3	1:C:633:LEU:HD23	1.85	0.58
1:R:269:TYR:HB3	1:R:633:LEU:HD23	1.85	0.58
1:X:269:TYR:HB3	1:X:633:LEU:HD23	1.85	0.58
1:X:456:PHE:HA	1:X:459:TYR:CD2	2.37	0.58
1:g:269:TYR:HB3	1:g:633:LEU:HD23	1.85	0.58
1:k:269:TYR:HB3	1:k:633:LEU:HD23	1.85	0.58
1:G:269:TYR:HB3	1:G:633:LEU:HD23	1.85	0.58
1:J:269:TYR:HB3	1:J:633:LEU:HD23	1.85	0.58
1:M:406:TYR:OH	1:M:627:ASN:O	2.21	0.58
1:N:689:ASN:HB3	1:N:697:GLN:HE21	1.67	0.58
1:U:456:PHE:HA	1:U:459:TYR:CD2	2.37	0.58
1:Z:406:TYR:OH	1:Z:627:ASN:O	2.21	0.58
1:j:456:PHE:HA	1:j:459:TYR:CD2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:406:TYR:OH	1:o:627:ASN:O	2.21	0.58
1:q:269:TYR:HB3	1:q:633:LEU:HD23	1.85	0.58
1:r:456:PHE:HA	1:r:459:TYR:CD2	2.37	0.58
1:w:346:HIS:CE1	1:y:428:ASN:H	2.21	0.58
1:A:269:TYR:HB3	1:A:633:LEU:HD23	1.85	0.58
1:A:456:PHE:HA	1:A:459:TYR:CD2	2.37	0.58
1:D:269:TYR:HB3	1:D:633:LEU:HD23	1.85	0.58
1:K:269:TYR:HB3	1:K:633:LEU:HD23	1.85	0.58
1:h:406:TYR:OH	1:h:627:ASN:O	2.21	0.58
1:q:689:ASN:HB3	1:q:697:GLN:HE21	1.67	0.58
1:v:269:TYR:HB3	1:v:633:LEU:HD23	1.85	0.58
1:z:689:ASN:HB3	1:z:697:GLN:HE21	1.67	0.58
1:1:406:TYR:OH	1:1:627:ASN:O	2.21	0.58
1:4:269:TYR:HB3	1:4:633:LEU:HD23	1.85	0.58
1:B:406:TYR:OH	1:B:627:ASN:O	2.21	0.58
1:L:689:ASN:HB3	1:L:697:GLN:HE21	1.67	0.58
1:X:406:TYR:OH	1:X:627:ASN:O	2.21	0.58
1:f:456:PHE:HA	1:f:459:TYR:CD2	2.37	0.58
1:r:269:TYR:HB3	1:r:633:LEU:HD23	1.85	0.58
1:r:406:TYR:OH	1:r:627:ASN:O	2.21	0.58
1:R:689:ASN:HB3	1:R:697:GLN:HE21	1.67	0.58
1:S:406:TYR:OH	1:S:627:ASN:O	2.21	0.58
1:Y:406:TYR:OH	1:Y:627:ASN:O	2.21	0.58
1:i:406:TYR:OH	1:i:627:ASN:O	2.21	0.58
1:v:456:PHE:HA	1:v:459:TYR:CD2	2.37	0.58
1:D:406:TYR:OH	1:D:627:ASN:O	2.21	0.58
1:N:406:TYR:OH	1:N:627:ASN:O	2.21	0.58
1:S:269:TYR:HB3	1:S:633:LEU:HD23	1.85	0.58
1:a:406:TYR:OH	1:a:627:ASN:O	2.21	0.58
1:b:456:PHE:HA	1:b:459:TYR:CD2	2.37	0.58
1:k:406:TYR:OH	1:k:627:ASN:O	2.21	0.58
1:7:406:TYR:OH	1:7:627:ASN:O	2.21	0.58
1:J:406:TYR:OH	1:J:627:ASN:O	2.21	0.58
1:t:346:HIS:CE1	1:v:428:ASN:H	2.21	0.58
1:t:689:ASN:HB3	1:t:697:GLN:HE21	1.67	0.58
1:2:406:TYR:OH	1:2:627:ASN:O	2.21	0.58
1:3:406:TYR:OH	1:3:627:ASN:O	2.21	0.58
1:G:689:ASN:HB3	1:G:697:GLN:HE21	1.67	0.58
1:y:406:TYR:OH	1:y:627:ASN:O	2.21	0.58
1:E:406:TYR:OH	1:E:627:ASN:O	2.21	0.58
1:T:428:ASN:H	1:d:346:HIS:CE1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:428:ASN:H	1:v:346:HIS:CE1	2.22	0.58
1:j:406:TYR:OH	1:j:627:ASN:O	2.21	0.58
1:H:346:HIS:CE1	1:Y:428:ASN:H	2.22	0.57
1:w:406:TYR:OH	1:w:627:ASN:O	2.21	0.57
1:A:406:TYR:OH	1:A:627:ASN:O	2.21	0.57
1:F:406:TYR:OH	1:F:627:ASN:O	2.21	0.57
1:M:346:HIS:CE1	1:b:428:ASN:H	2.23	0.57
1:P:406:TYR:OH	1:P:627:ASN:O	2.21	0.57
1:f:428:ASN:H	1:h:346:HIS:CE1	2.23	0.57
1:f:689:ASN:N	1:f:710[A]:ARG:HH11	2.02	0.57
1:H:428:ASN:H	1:W:346:HIS:CE1	2.23	0.57
1:L:596:ASP:OD1	1:L:597:ILE:N	2.38	0.57
1:Q:269:TYR:HB3	1:Q:633:LEU:HD23	1.85	0.57
1:U:269:TYR:HB3	1:U:633:LEU:HD23	1.85	0.57
1:f:596:ASP:OD1	1:f:597:ILE:N	2.38	0.57
1:v:406:TYR:OH	1:v:627:ASN:O	2.21	0.57
1:x:428:ASN:H	1:y:346:HIS:CE1	2.22	0.57
1:z:596:ASP:OD1	1:z:597:ILE:N	2.38	0.57
1:5:428:ASN:H	1:6:346:HIS:CE1	2.22	0.57
1:D:596:ASP:OD1	1:D:597:ILE:N	2.38	0.57
1:S:596:ASP:OD1	1:S:597:ILE:N	2.38	0.57
1:V:406:TYR:OH	1:V:627:ASN:O	2.21	0.57
1:W:596:ASP:OD1	1:W:597:ILE:N	2.38	0.57
1:b:596:ASP:OD1	1:b:597:ILE:N	2.38	0.57
1:d:709:ASP:C	1:d:710[B]:ARG:HG2	2.30	0.57
1:l:269:TYR:HB3	1:l:633:LEU:HD23	1.85	0.57
1:l:596:ASP:OD1	1:l:597:ILE:N	2.38	0.57
1:p:406:TYR:OH	1:p:627:ASN:O	2.21	0.57
1:r:596:ASP:OD1	1:r:597:ILE:N	2.38	0.57
1:s:269:TYR:HB3	1:s:633:LEU:HD23	1.85	0.57
1:u:406:TYR:OH	1:u:627:ASN:O	2.21	0.57
1:3:596:ASP:OD1	1:3:597:ILE:N	2.38	0.57
1:M:596:ASP:OD1	1:M:597:ILE:N	2.38	0.57
1:O:596:ASP:OD1	1:O:597:ILE:N	2.38	0.57
1:P:269:TYR:HB3	1:P:633:LEU:HD23	1.85	0.57
1:a:596:ASP:OD1	1:a:597:ILE:N	2.38	0.57
1:c:269:TYR:HB3	1:c:633:LEU:HD23	1.85	0.57
1:j:269:TYR:HB3	1:j:633:LEU:HD23	1.85	0.57
1:k:596:ASP:OD1	1:k:597:ILE:N	2.38	0.57
1:n:596:ASP:OD1	1:n:597:ILE:N	2.38	0.57
1:6:596:ASP:OD1	1:6:597:ILE:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:596:ASP:OD1	1:A:597:ILE:N	2.38	0.57
1:O:269:TYR:HB3	1:O:633:LEU:HD23	1.85	0.57
1:P:596:ASP:OD1	1:P:597:ILE:N	2.38	0.57
1:U:596:ASP:OD1	1:U:597:ILE:N	2.38	0.57
1:d:596:ASP:OD1	1:d:597:ILE:N	2.38	0.57
1:e:269:TYR:HB3	1:e:633:LEU:HD23	1.85	0.57
1:h:596:ASP:OD1	1:h:597:ILE:N	2.38	0.57
1:j:428:ASN:H	1:k:346:HIS:CE1	2.22	0.57
1:j:596:ASP:OD1	1:j:597:ILE:N	2.38	0.57
1:s:596:ASP:OD1	1:s:597:ILE:N	2.38	0.57
1:v:596:ASP:OD1	1:v:597:ILE:N	2.38	0.57
1:x:269:TYR:HB3	1:x:633:LEU:HD23	1.85	0.57
1:5:406:TYR:OH	1:5:627:ASN:O	2.21	0.57
1:G:596:ASP:OD1	1:G:597:ILE:N	2.38	0.57
1:N:428:ASN:H	1:P:346:HIS:CE1	2.22	0.57
1:V:481:ASN:HB3	1:X:441:THR:HG21	1.87	0.57
1:t:596:ASP:OD1	1:t:597:ILE:N	2.38	0.57
1:z:347:GLU:OE2	1:2:450:LYS:NZ	2.29	0.57
1:E:596:ASP:OD1	1:E:597:ILE:N	2.38	0.57
1:H:596:ASP:OD1	1:H:597:ILE:N	2.38	0.57
1:I:406:TYR:OH	1:I:627:ASN:O	2.21	0.57
1:W:406:TYR:OH	1:W:627:ASN:O	2.21	0.57
1:d:406:TYR:OH	1:d:627:ASN:O	2.21	0.57
1:e:406:TYR:OH	1:e:627:ASN:O	2.21	0.57
1:t:690[B]:PHE:CZ	1:5:684:ILE:HG23	2.40	0.57
1:1:229:VAL:HG13	1:1:670:TRP:HB2	1.87	0.57
1:B:229:VAL:HG13	1:B:670:TRP:HB2	1.87	0.57
1:H:406:TYR:OH	1:H:627:ASN:O	2.21	0.57
1:c:596:ASP:OD1	1:c:597:ILE:N	2.38	0.57
1:e:596:ASP:OD1	1:e:597:ILE:N	2.38	0.57
1:j:684:ILE:HG23	1:w:690[B]:PHE:CZ	2.40	0.57
1:n:406:TYR:OH	1:n:627:ASN:O	2.21	0.57
1:w:596:ASP:OD1	1:w:597:ILE:N	2.38	0.57
1:5:596:ASP:OD1	1:5:597:ILE:N	2.38	0.57
1:6:406:TYR:OH	1:6:627:ASN:O	2.21	0.57
1:I:596:ASP:OD1	1:I:597:ILE:N	2.38	0.57
1:J:450:LYS:NZ	1:L:347:GLU:OE2	2.28	0.57
1:Q:229:VAL:HG13	1:Q:670:TRP:HB2	1.87	0.57
1:Y:596:ASP:OD1	1:Y:597:ILE:N	2.38	0.57
1:4:596:ASP:OD1	1:4:597:ILE:N	2.38	0.57
1:8:406:TYR:OH	1:8:627:ASN:O	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:596:ASP:OD1	1:K:597:ILE:N	2.38	0.56
1:c:406:TYR:OH	1:c:627:ASN:O	2.21	0.56
1:c:689:ASN:N	1:c:710[A]:ARG:HH11	2.02	0.56
1:7:596:ASP:OD1	1:7:597:ILE:N	2.38	0.56
1:A:346:HIS:CE1	1:I:428:ASN:H	2.23	0.56
1:u:687:THR:O	1:u:710[A]:ARG:NH1	2.34	0.56
1:x:229:VAL:HG13	1:x:670:TRP:HB2	1.87	0.56
1:3:687:THR:O	1:3:710[A]:ARG:NH1	2.38	0.56
1:B:311:VAL:HG22	1:B:320:ILE:HG12	1.88	0.56
1:B:596:ASP:OD1	1:B:597:ILE:N	2.38	0.56
1:D:346:HIS:CE1	1:P:428:ASN:H	2.23	0.56
1:J:596:ASP:OD1	1:J:597:ILE:N	2.38	0.56
1:K:229:VAL:HG13	1:K:670:TRP:HB2	1.87	0.56
1:T:229:VAL:HG13	1:T:670:TRP:HB2	1.87	0.56
1:Y:311:VAL:HG22	1:Y:320:ILE:HG12	1.88	0.56
1:Z:596:ASP:OD1	1:Z:597:ILE:N	2.38	0.56
1:a:709:ASP:C	1:a:710[B]:ARG:HG2	2.30	0.56
1:c:311:VAL:HG22	1:c:320:ILE:HG12	1.88	0.56
1:d:686:TYR:CE1	1:d:710[B]:ARG:NH2	2.73	0.56
1:e:311:VAL:HG22	1:e:320:ILE:HG12	1.88	0.56
1:h:686:TYR:HE1	1:h:710[A]:ARG:NH2	2.03	0.56
1:m:229:VAL:HG13	1:m:670:TRP:HB2	1.87	0.56
1:q:690[B]:PHE:CZ	1:x:684:ILE:HG23	2.41	0.56
1:u:596:ASP:OD1	1:u:597:ILE:N	2.38	0.56
1:y:596:ASP:OD1	1:y:597:ILE:N	2.38	0.56
1:1:311:VAL:HG22	1:1:320:ILE:HG12	1.88	0.56
1:4:229:VAL:HG13	1:4:670:TRP:HB2	1.87	0.56
1:7:686:TYR:CE1	1:7:710[B]:ARG:NH2	2.73	0.56
1:8:596:ASP:OD1	1:8:597:ILE:N	2.38	0.56
1:C:596:ASP:OD1	1:C:597:ILE:N	2.38	0.56
1:F:346:HIS:CE1	1:Q:428:ASN:H	2.23	0.56
1:F:596:ASP:OD1	1:F:597:ILE:N	2.38	0.56
1:T:311:VAL:HG22	1:T:320:ILE:HG12	1.88	0.56
1:V:596:ASP:OD1	1:V:597:ILE:N	2.38	0.56
1:W:229:VAL:HG13	1:W:670:TRP:HB2	1.87	0.56
1:a:690[B]:PHE:CZ	1:3:684:ILE:HG23	2.41	0.56
1:o:229:VAL:HG13	1:o:670:TRP:HB2	1.87	0.56
1:u:684:ILE:HG23	1:1:690[B]:PHE:CZ	2.41	0.56
1:x:596:ASP:OD1	1:x:597:ILE:N	2.38	0.56
1:1:596:ASP:OD1	1:1:597:ILE:N	2.38	0.56
1:7:311:VAL:HG22	1:7:320:ILE:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:229:VAL:HG13	1:A:670:TRP:HB2	1.87	0.56
1:B:481:ASN:HB3	1:L:441:THR:HG21	1.87	0.56
1:C:229:VAL:HG13	1:C:670:TRP:HB2	1.87	0.56
1:Q:596:ASP:OD1	1:Q:597:ILE:N	2.38	0.56
1:a:311:VAL:HG22	1:a:320:ILE:HG12	1.88	0.56
1:a:686:TYR:CE1	1:a:710[B]:ARG:NH2	2.73	0.56
1:c:428:ASN:H	1:o:346:HIS:CE1	2.23	0.56
1:g:229:VAL:HG13	1:g:670:TRP:HB2	1.87	0.56
1:g:596:ASP:OD1	1:g:597:ILE:N	2.38	0.56
1:i:225:MET:HE3	1:i:228[A]:ARG:HB2	1.87	0.56
1:i:311:VAL:HG22	1:i:320:ILE:HG12	1.88	0.56
1:m:311:VAL:HG22	1:m:320:ILE:HG12	1.88	0.56
1:n:229:VAL:HG13	1:n:670:TRP:HB2	1.87	0.56
1:n:687:THR:O	1:n:710[A]:ARG:NH1	2.38	0.56
1:o:686:TYR:HE1	1:o:710[A]:ARG:NH2	2.03	0.56
1:p:596:ASP:OD1	1:p:597:ILE:N	2.38	0.56
1:v:229:VAL:HG13	1:v:670:TRP:HB2	1.87	0.56
1:2:596:ASP:OD1	1:2:597:ILE:N	2.38	0.56
1:3:311:VAL:HG22	1:3:320:ILE:HG12	1.88	0.56
1:6:229:VAL:HG13	1:6:670:TRP:HB2	1.87	0.56
1:6:311:VAL:HG22	1:6:320:ILE:HG12	1.88	0.56
1:A:311:VAL:HG22	1:A:320:ILE:HG12	1.88	0.56
1:N:596:ASP:OD1	1:N:597:ILE:N	2.38	0.56
1:P:229:VAL:HG13	1:P:670:TRP:HB2	1.87	0.56
1:P:367:THR:HG22	1:P:368:LEU:N	2.21	0.56
1:R:596:ASP:OD1	1:R:597:ILE:N	2.38	0.56
1:W:311:VAL:HG22	1:W:320:ILE:HG12	1.88	0.56
1:X:229:VAL:HG13	1:X:670:TRP:HB2	1.87	0.56
1:b:406:TYR:OH	1:b:627:ASN:O	2.21	0.56
1:d:229:VAL:HG13	1:d:670:TRP:HB2	1.87	0.56
1:F:229:VAL:HG13	1:F:670:TRP:HB2	1.87	0.56
1:N:311:VAL:HG22	1:N:320:ILE:HG12	1.88	0.56
1:a:229:VAL:HG13	1:a:670:TRP:HB2	1.87	0.56
1:i:596:ASP:OD1	1:i:597:ILE:N	2.38	0.56
1:j:229:VAL:HG13	1:j:670:TRP:HB2	1.87	0.56
1:q:596:ASP:OD1	1:q:597:ILE:N	2.38	0.56
1:s:686:TYR:CE1	1:s:710[B]:ARG:NH2	2.74	0.56
1:v:311:VAL:HG22	1:v:320:ILE:HG12	1.88	0.56
1:z:311:VAL:HG22	1:z:320:ILE:HG12	1.88	0.56
1:D:367:THR:HG22	1:D:368:LEU:N	2.21	0.56
1:F:311:VAL:HG22	1:F:320:ILE:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:311:VAL:HG22	1:L:320:ILE:HG12	1.88	0.56
1:R:229:VAL:HG13	1:R:670:TRP:HB2	1.87	0.56
1:f:406:TYR:OH	1:f:627:ASN:O	2.21	0.56
1:j:367:THR:HG22	1:j:368:LEU:N	2.21	0.56
1:m:596:ASP:OD1	1:m:597:ILE:N	2.38	0.56
1:q:229:VAL:HG13	1:q:670:TRP:HB2	1.87	0.56
1:5:229:VAL:HG13	1:5:670:TRP:HB2	1.87	0.56
1:5:311:VAL:HG22	1:5:320:ILE:HG12	1.88	0.56
1:8:229:VAL:HG13	1:8:670:TRP:HB2	1.87	0.56
1:C:481:ASN:HB3	1:M:441:THR:HG21	1.87	0.56
1:G:229:VAL:HG13	1:G:670:TRP:HB2	1.87	0.56
1:G:367:THR:HG22	1:G:368:LEU:N	2.21	0.56
1:H:229:VAL:HG13	1:H:670:TRP:HB2	1.87	0.56
1:H:311:VAL:HG22	1:H:320:ILE:HG12	1.88	0.56
1:K:311:VAL:HG22	1:K:320:ILE:HG12	1.88	0.56
1:N:229:VAL:HG13	1:N:670:TRP:HB2	1.87	0.56
1:U:367:THR:HG22	1:U:368:LEU:N	2.21	0.56
1:X:311:VAL:HG22	1:X:320:ILE:HG12	1.88	0.56
1:X:367:THR:HG22	1:X:368:LEU:N	2.21	0.56
1:Z:229:VAL:HG13	1:Z:670:TRP:HB2	1.87	0.56
1:Z:311:VAL:HG22	1:Z:320:ILE:HG12	1.88	0.56
1:Z:367:THR:HG22	1:Z:368:LEU:N	2.21	0.56
1:d:311:VAL:HG22	1:d:320:ILE:HG12	1.88	0.56
1:g:367:THR:HG22	1:g:368:LEU:N	2.21	0.56
1:k:367:THR:HG22	1:k:368:LEU:N	2.21	0.56
1:s:367:THR:HG22	1:s:368:LEU:N	2.21	0.56
1:t:367:THR:HG22	1:t:368:LEU:N	2.21	0.56
1:y:229:VAL:HG13	1:y:670:TRP:HB2	1.87	0.56
1:y:311:VAL:HG22	1:y:320:ILE:HG12	1.88	0.56
1:3:229:VAL:HG13	1:3:670:TRP:HB2	1.87	0.56
1:4:311:VAL:HG22	1:4:320:ILE:HG12	1.88	0.56
1:5:346:HIS:CE1	1:7:428:ASN:H	2.24	0.56
1:8:367:THR:HG22	1:8:368:LEU:N	2.21	0.56
1:C:311:VAL:HG22	1:C:320:ILE:HG12	1.88	0.56
1:C:367:THR:HG22	1:C:368:LEU:N	2.21	0.56
1:D:341:ILE:H	1:D:631:GLN:HE22	1.54	0.56
1:G:432:ASP:HB2	1:G:452:GLY:HA3	1.88	0.56
1:T:596:ASP:OD1	1:T:597:ILE:N	2.38	0.56
1:T:687:THR:O	1:T:710[A]:ARG:NH1	2.39	0.56
1:X:596:ASP:OD1	1:X:597:ILE:N	2.38	0.56
1:i:686:TYR:CE1	1:i:710[B]:ARG:NH2	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:341:ILE:H	1:k:631:GLN:HE22	1.54	0.56
1:n:311:VAL:HG22	1:n:320:ILE:HG12	1.88	0.56
1:o:311:VAL:HG22	1:o:320:ILE:HG12	1.88	0.56
1:o:367:THR:HG22	1:o:368:LEU:N	2.21	0.56
1:o:596:ASP:OD1	1:o:597:ILE:N	2.38	0.56
1:J:311:VAL:HG22	1:J:320:ILE:HG12	1.88	0.55
1:P:432:ASP:HB2	1:P:452:GLY:HA3	1.89	0.55
1:Y:341:ILE:H	1:Y:631:GLN:HE22	1.55	0.55
1:d:690[B]:PHE:CZ	1:n:684:ILE:HG23	2.41	0.55
1:i:229:VAL:HG13	1:i:670:TRP:HB2	1.87	0.55
1:j:432:ASP:HB2	1:j:452:GLY:HA3	1.89	0.55
1:s:311:VAL:HG22	1:s:320:ILE:HG12	1.88	0.55
1:t:229:VAL:HG13	1:t:670:TRP:HB2	1.87	0.55
1:t:432:ASP:HB2	1:t:452:GLY:HA3	1.89	0.55
1:2:229:VAL:HG13	1:2:670:TRP:HB2	1.87	0.55
1:7:341:ILE:H	1:7:631:GLN:HE22	1.55	0.55
1:8:311:VAL:HG22	1:8:320:ILE:HG12	1.88	0.55
1:D:229:VAL:HG13	1:D:670:TRP:HB2	1.87	0.55
1:J:229:VAL:HG13	1:J:670:TRP:HB2	1.87	0.55
1:V:432:ASP:HB2	1:V:452:GLY:HA3	1.89	0.55
1:X:346:HIS:CE1	1:e:428:ASN:H	2.23	0.55
1:c:341:ILE:H	1:c:631:GLN:HE22	1.55	0.55
1:g:311:VAL:HG22	1:g:320:ILE:HG12	1.88	0.55
1:i:367:THR:HG22	1:i:368:LEU:N	2.21	0.55
1:2:311:VAL:HG22	1:2:320:ILE:HG12	1.88	0.55
1:3:346:HIS:CE1	1:4:428:ASN:H	2.24	0.55
1:3:432:ASP:HB2	1:3:452:GLY:HA3	1.89	0.55
1:D:481:ASN:HB3	1:P:441:THR:HG21	1.88	0.55
1:F:367:THR:HG22	1:F:368:LEU:N	2.21	0.55
1:H:432:ASP:HB2	1:H:452:GLY:HA3	1.89	0.55
1:O:229:VAL:HG13	1:O:670:TRP:HB2	1.87	0.55
1:R:432:ASP:HB2	1:R:452:GLY:HA3	1.89	0.55
1:S:229:VAL:HG13	1:S:670:TRP:HB2	1.87	0.55
1:T:367:THR:HG22	1:T:368:LEU:N	2.21	0.55
1:U:311:VAL:HG22	1:U:320:ILE:HG12	1.88	0.55
1:a:432:ASP:HB2	1:a:452:GLY:HA3	1.89	0.55
1:e:341:ILE:H	1:e:631:GLN:HE22	1.55	0.55
1:f:311:VAL:HG22	1:f:320:ILE:HG12	1.88	0.55
1:h:311:VAL:HG22	1:h:320:ILE:HG12	1.88	0.55
1:h:686:TYR:CE1	1:h:710[B]:ARG:NH2	2.75	0.55
1:k:229:VAL:HG13	1:k:670:TRP:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:229:VAL:HG13	1:l:670:TRP:HB2	1.87	0.55
1:m:367:THR:HG22	1:m:368:LEU:N	2.21	0.55
1:n:432:ASP:HB2	1:n:452:GLY:HA3	1.89	0.55
1:p:432:ASP:HB2	1:p:452:GLY:HA3	1.89	0.55
1:q:432:ASP:HB2	1:q:452:GLY:HA3	1.89	0.55
1:r:229:VAL:HG13	1:r:670:TRP:HB2	1.87	0.55
1:s:432:ASP:HB2	1:s:452:GLY:HA3	1.89	0.55
1:y:367:THR:HG22	1:y:368:LEU:N	2.21	0.55
1:5:432:ASP:HB2	1:5:452:GLY:HA3	1.89	0.55
1:7:225:MET:HE3	1:7:228[A]:ARG:HB2	1.87	0.55
1:A:367:THR:HG22	1:A:368:LEU:N	2.21	0.55
1:J:367:THR:HG22	1:J:368:LEU:N	2.21	0.55
1:K:432:ASP:HB2	1:K:452:GLY:HA3	1.89	0.55
1:P:311:VAL:HG22	1:P:320:ILE:HG12	1.88	0.55
1:Q:311:VAL:HG22	1:Q:320:ILE:HG12	1.88	0.55
1:R:311:VAL:HG22	1:R:320:ILE:HG12	1.88	0.55
1:U:229:VAL:HG13	1:U:670:TRP:HB2	1.87	0.55
1:U:432:ASP:HB2	1:U:452:GLY:HA3	1.89	0.55
1:V:311:VAL:HG22	1:V:320:ILE:HG12	1.88	0.55
1:d:432:ASP:HB2	1:d:452:GLY:HA3	1.89	0.55
1:o:341:ILE:H	1:o:631:GLN:HE22	1.55	0.55
1:o:686:TYR:CE1	1:o:710[B]:ARG:NH2	2.75	0.55
1:x:311:VAL:HG22	1:x:320:ILE:HG12	1.88	0.55
1:4:432:ASP:HB2	1:4:452:GLY:HA3	1.89	0.55
1:I:311:VAL:HG22	1:I:320:ILE:HG12	1.88	0.55
1:X:341:ILE:H	1:X:631:GLN:HE22	1.55	0.55
1:b:311:VAL:HG22	1:b:320:ILE:HG12	1.88	0.55
1:c:432:ASP:HB2	1:c:452:GLY:HA3	1.89	0.55
1:e:432:ASP:HB2	1:e:452:GLY:HA3	1.89	0.55
1:f:432:ASP:HB2	1:f:452:GLY:HA3	1.89	0.55
1:h:229:VAL:HG13	1:h:670:TRP:HB2	1.87	0.55
1:h:686:TYR:HE1	1:h:710[B]:ARG:NH2	2.05	0.55
1:j:311:VAL:HG22	1:j:320:ILE:HG12	1.88	0.55
1:o:686:TYR:HE1	1:o:710[B]:ARG:NH2	2.05	0.55
1:p:311:VAL:HG22	1:p:320:ILE:HG12	1.88	0.55
1:q:346:HIS:CE1	1:s:428:ASN:H	2.25	0.55
1:s:229:VAL:HG13	1:s:670:TRP:HB2	1.87	0.55
1:u:311:VAL:HG22	1:u:320:ILE:HG12	1.88	0.55
1:v:367:THR:HG22	1:v:368:LEU:N	2.21	0.55
1:z:686:TYR:CE1	1:z:710[B]:ARG:NH2	2.74	0.55
1:1:432:ASP:HB2	1:1:452:GLY:HA3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:686:TYR:HD1	1:1:710[B]:ARG:NH2	2.05	0.55
1:8:341:ILE:H	1:8:631:GLN:HE22	1.54	0.55
1:B:432:ASP:HB2	1:B:452:GLY:HA3	1.89	0.55
1:D:311:VAL:HG22	1:D:320:ILE:HG12	1.88	0.55
1:I:229:VAL:HG13	1:I:670:TRP:HB2	1.87	0.55
1:M:229:VAL:HG13	1:M:670:TRP:HB2	1.87	0.55
1:M:311:VAL:HG22	1:M:320:ILE:HG12	1.88	0.55
1:R:341:ILE:H	1:R:631:GLN:HE22	1.54	0.55
1:V:229:VAL:HG13	1:V:670:TRP:HB2	1.87	0.55
1:W:341:ILE:H	1:W:631:GLN:HE22	1.54	0.55
1:Y:229:VAL:HG13	1:Y:670:TRP:HB2	1.87	0.55
1:b:432:ASP:HB2	1:b:452:GLY:HA3	1.89	0.55
1:i:428:ASN:H	1:j:346:HIS:CE1	2.24	0.55
1:k:311:VAL:HG22	1:k:320:ILE:HG12	1.88	0.55
1:p:229:VAL:HG13	1:p:670:TRP:HB2	1.87	0.55
1:q:311:VAL:HG22	1:q:320:ILE:HG12	1.88	0.55
1:s:341:ILE:H	1:s:631:GLN:HE22	1.55	0.55
1:2:367:THR:HG22	1:2:368:LEU:N	2.21	0.55
1:7:229:VAL:HG13	1:7:670:TRP:HB2	1.87	0.55
1:B:341:ILE:H	1:B:631:GLN:HE22	1.54	0.55
1:C:432:ASP:HB2	1:C:452:GLY:HA3	1.89	0.55
1:G:311:VAL:HG22	1:G:320:ILE:HG12	1.88	0.55
1:L:229:VAL:HG13	1:L:670:TRP:HB2	1.87	0.55
1:L:341:ILE:H	1:L:631:GLN:HE22	1.54	0.55
1:N:432:ASP:HB2	1:N:452:GLY:HA3	1.89	0.55
1:Y:432:ASP:HB2	1:Y:452:GLY:HA3	1.89	0.55
1:Z:341:ILE:H	1:Z:631:GLN:HE22	1.55	0.55
1:g:341:ILE:H	1:g:631:GLN:HE22	1.54	0.55
1:g:432:ASP:HB2	1:g:452:GLY:HA3	1.89	0.55
1:i:432:ASP:HB2	1:i:452:GLY:HA3	1.89	0.55
1:q:341:ILE:H	1:q:631:GLN:HE22	1.55	0.55
1:w:229:VAL:HG13	1:w:670:TRP:HB2	1.87	0.55
1:z:229:VAL:HG13	1:z:670:TRP:HB2	1.87	0.55
1:z:341:ILE:H	1:z:631:GLN:HE22	1.55	0.55
1:6:341:ILE:H	1:6:631:GLN:HE22	1.54	0.55
1:7:432:ASP:HB2	1:7:452:GLY:HA3	1.89	0.55
1:A:341:ILE:H	1:A:631:GLN:HE22	1.54	0.55
1:E:229:VAL:HG13	1:E:670:TRP:HB2	1.87	0.55
1:N:341:ILE:H	1:N:631:GLN:HE22	1.55	0.55
1:O:428:ASN:H	1:m:346:HIS:CE1	2.25	0.55
1:Q:367:THR:HG22	1:Q:368:LEU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:481:ASN:HB3	1:U:441:THR:HG21	1.87	0.55
1:U:341:ILE:H	1:U:631:GLN:HE22	1.54	0.55
1:b:367:THR:HG22	1:b:368:LEU:N	2.21	0.55
1:f:367:THR:HG22	1:f:368:LEU:N	2.21	0.55
1:i:341:ILE:H	1:i:631:GLN:HE22	1.55	0.55
1:t:311:VAL:HG22	1:t:320:ILE:HG12	1.88	0.55
1:v:341:ILE:H	1:v:631:GLN:HE22	1.54	0.55
1:A:481:ASN:HB3	1:I:441:THR:HG21	1.89	0.55
1:C:341:ILE:H	1:C:631:GLN:HE22	1.54	0.55
1:E:341:ILE:H	1:E:631:GLN:HE22	1.54	0.55
1:E:346:HIS:CE1	1:F:428:ASN:H	2.25	0.55
1:F:481:ASN:HB3	1:Q:441:THR:HG21	1.89	0.55
1:R:456:PHE:HA	1:R:459:TYR:HD2	1.72	0.55
1:Y:367:THR:HG22	1:Y:368:LEU:N	2.21	0.55
1:h:690[B]:PHE:HZ	1:k:684:ILE:HG23	1.72	0.55
1:k:456:PHE:HA	1:k:459:TYR:HD2	1.72	0.55
1:o:428:ASN:H	1:p:346:HIS:CE1	2.25	0.55
1:u:229:VAL:HG13	1:u:670:TRP:HB2	1.87	0.55
1:l:341:ILE:H	1:l:631:GLN:HE22	1.55	0.55
1:A:432:ASP:HB2	1:A:452:GLY:HA3	1.89	0.55
1:D:432:ASP:HB2	1:D:452:GLY:HA3	1.89	0.55
1:D:456:PHE:HA	1:D:459:TYR:HD2	1.72	0.55
1:E:432:ASP:HB2	1:E:452:GLY:HA3	1.89	0.55
1:Z:428:ASN:H	1:4:346:HIS:CE1	2.25	0.55
1:f:456:PHE:HA	1:f:459:TYR:HD2	1.72	0.55
1:h:432:ASP:HB2	1:h:452:GLY:HA3	1.89	0.55
1:j:450:LYS:NZ	1:k:347:GLU:OE2	2.28	0.55
1:k:432:ASP:HB2	1:k:452:GLY:HA3	1.89	0.55
1:o:432:ASP:HB2	1:o:452:GLY:HA3	1.89	0.55
1:q:456:PHE:HA	1:q:459:TYR:HD2	1.72	0.55
1:x:367:THR:HG22	1:x:368:LEU:N	2.21	0.55
1:7:367:THR:HG22	1:7:368:LEU:N	2.21	0.55
1:8:432:ASP:HB2	1:8:452:GLY:HA3	1.89	0.55
1:O:432:ASP:HB2	1:O:452:GLY:HA3	1.89	0.54
1:X:432:ASP:HB2	1:X:452:GLY:HA3	1.89	0.54
1:Z:432:ASP:HB2	1:Z:452:GLY:HA3	1.89	0.54
1:b:456:PHE:HA	1:b:459:TYR:HD2	1.72	0.54
1:l:432:ASP:HB2	1:l:452:GLY:HA3	1.89	0.54
1:v:432:ASP:HB2	1:v:452:GLY:HA3	1.89	0.54
1:w:341:ILE:H	1:w:631:GLN:HE22	1.54	0.54
1:w:432:ASP:HB2	1:w:452:GLY:HA3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:686:TYR:CD1	1:y:710[B]:ARG:NH2	2.76	0.54
1:5:341:ILE:H	1:5:631:GLN:HE22	1.55	0.54
1:B:428:ASN:H	1:J:346:HIS:CE1	2.26	0.54
1:G:341:ILE:H	1:G:631:GLN:HE22	1.54	0.54
1:H:341:ILE:H	1:H:631:GLN:HE22	1.54	0.54
1:M:432:ASP:HB2	1:M:452:GLY:HA3	1.89	0.54
1:P:341:ILE:H	1:P:631:GLN:HE22	1.54	0.54
1:S:311:VAL:HG22	1:S:320:ILE:HG12	1.88	0.54
1:Z:481:ASN:HB3	1:3:441:THR:HG21	1.89	0.54
1:a:367:THR:HG22	1:a:368:LEU:N	2.21	0.54
1:f:229:VAL:HG13	1:f:670:TRP:HB2	1.87	0.54
1:o:690[B]:PHE:HZ	1:6:684:ILE:HG23	1.72	0.54
1:r:311:VAL:HG22	1:r:320:ILE:HG12	1.88	0.54
1:x:341:ILE:H	1:x:631:GLN:HE22	1.55	0.54
1:z:428:ASN:H	1:1:346:HIS:CE1	2.25	0.54
1:A:441:THR:HG21	1:G:481:ASN:HB3	1.89	0.54
1:Q:341:ILE:H	1:Q:631:GLN:HE22	1.54	0.54
1:S:341:ILE:H	1:S:631:GLN:HE22	1.55	0.54
1:Z:347:GLU:OE2	1:3:450:LYS:NZ	2.29	0.54
1:c:229:VAL:HG13	1:c:670:TRP:HB2	1.87	0.54
1:j:341:ILE:H	1:j:631:GLN:HE22	1.55	0.54
1:t:341:ILE:H	1:t:631:GLN:HE22	1.54	0.54
1:z:432:ASP:HB2	1:z:452:GLY:HA3	1.89	0.54
1:3:367:THR:HG22	1:3:368:LEU:N	2.21	0.54
1:F:456:PHE:HA	1:F:459:TYR:HD2	1.72	0.54
1:H:456:PHE:HA	1:H:459:TYR:HD2	1.72	0.54
1:L:432:ASP:HB2	1:L:452:GLY:HA3	1.89	0.54
1:Q:456:PHE:HA	1:Q:459:TYR:HD2	1.72	0.54
1:S:456:PHE:HA	1:S:459:TYR:HD2	1.72	0.54
1:U:456:PHE:HA	1:U:459:TYR:HD2	1.72	0.54
1:b:229:VAL:HG13	1:b:670:TRP:HB2	1.87	0.54
1:e:229:VAL:HG13	1:e:670:TRP:HB2	1.87	0.54
1:e:456:PHE:HA	1:e:459:TYR:HD2	1.72	0.54
1:h:367:THR:HG22	1:h:368:LEU:N	2.21	0.54
1:m:432:ASP:HB2	1:m:452:GLY:HA3	1.88	0.54
1:1:456:PHE:HA	1:1:459:TYR:HD2	1.72	0.54
1:A:428:ASN:H	1:G:346:HIS:CE1	2.24	0.54
1:K:687:THR:O	1:K:710[A]:ARG:NH1	2.39	0.54
1:M:367:THR:HG22	1:M:368:LEU:N	2.21	0.54
1:P:456:PHE:HA	1:P:459:TYR:HD2	1.72	0.54
1:R:428:ASN:H	1:S:346:HIS:CE1	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:428:ASN:H	1:U:346:HIS:CE1	2.25	0.54
1:T:432:ASP:HB2	1:T:452:GLY:HA3	1.89	0.54
1:W:367:THR:HG22	1:W:368:LEU:N	2.21	0.54
1:c:456:PHE:HA	1:c:459:TYR:HD2	1.72	0.54
1:m:428:ASN:H	1:n:346:HIS:CE1	2.24	0.54
1:m:456:PHE:HA	1:m:459:TYR:HD2	1.73	0.54
1:r:341:ILE:H	1:r:631:GLN:HE22	1.55	0.54
1:r:456:PHE:HA	1:r:459:TYR:HD2	1.72	0.54
1:s:456:PHE:HA	1:s:459:TYR:HD2	1.72	0.54
1:x:456:PHE:HA	1:x:459:TYR:HD2	1.72	0.54
1:y:456:PHE:HA	1:y:459:TYR:HD2	1.72	0.54
1:4:367:THR:HG22	1:4:368:LEU:N	2.21	0.54
1:5:456:PHE:HA	1:5:459:TYR:HD2	1.72	0.54
1:B:456:PHE:HA	1:B:459:TYR:HD2	1.72	0.54
1:K:367:THR:HG22	1:K:368:LEU:N	2.21	0.54
1:K:441:THR:HG21	1:a:481:ASN:HB3	1.90	0.54
1:M:347:GLU:OE2	1:b:450:LYS:NZ	2.28	0.54
1:T:456:PHE:HA	1:T:459:TYR:HD2	1.73	0.54
1:X:347:GLU:OE2	1:e:450:LYS:NZ	2.28	0.54
1:g:456:PHE:HA	1:g:459:TYR:HD2	1.72	0.54
1:u:432:ASP:HB2	1:u:452:GLY:HA3	1.89	0.54
1:C:456:PHE:HA	1:C:459:TYR:HD2	1.72	0.54
1:G:456:PHE:HA	1:G:459:TYR:HD2	1.73	0.54
1:I:432:ASP:HB2	1:I:452:GLY:HA3	1.89	0.54
1:J:456:PHE:HA	1:J:459:TYR:HD2	1.72	0.54
1:N:456:PHE:HA	1:N:459:TYR:HD2	1.72	0.54
1:d:367:THR:HG22	1:d:368:LEU:N	2.21	0.54
1:f:341:ILE:H	1:f:631:GLN:HE22	1.55	0.54
1:6:367:THR:HG22	1:6:368:LEU:N	2.21	0.54
1:H:441:THR:HG21	1:W:481:ASN:HB3	1.88	0.54
1:J:428:ASN:H	1:L:346:HIS:CE1	2.25	0.54
1:O:311:VAL:HG22	1:O:320:ILE:HG12	1.88	0.54
1:O:481:ASN:HB3	1:n:441:THR:HG21	1.89	0.54
1:R:288:VAL:HG12	1:R:714:THR:HG23	1.90	0.54
1:S:432:ASP:HB2	1:S:452:GLY:HA3	1.89	0.54
1:b:341:ILE:H	1:b:631:GLN:HE22	1.55	0.54
1:j:456:PHE:HA	1:j:459:TYR:HD2	1.72	0.54
1:l:311:VAL:HG22	1:l:320:ILE:HG12	1.88	0.54
1:n:367:THR:HG22	1:n:368:LEU:N	2.21	0.54
1:q:288:VAL:HG12	1:q:714:THR:HG23	1.90	0.54
1:t:456:PHE:HA	1:t:459:TYR:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:288:VAL:HG12	1:w:714:THR:HG23	1.90	0.54
1:x:288:VAL:HG12	1:x:714:THR:HG23	1.90	0.54
1:2:456:PHE:HA	1:2:459:TYR:HD2	1.72	0.54
1:5:367:THR:HG22	1:5:368:LEU:N	2.21	0.54
1:E:428:ASN:H	1:Q:346:HIS:CE1	2.26	0.54
1:G:428:ASN:H	1:I:346:HIS:CE1	2.26	0.54
1:H:367:THR:HG22	1:H:368:LEU:N	2.21	0.54
1:Q:288:VAL:HG12	1:Q:714:THR:HG23	1.90	0.54
1:g:346:HIS:CE1	1:h:428:ASN:H	2.25	0.54
1:E:311:VAL:HG22	1:E:320:ILE:HG12	1.88	0.54
1:j:288:VAL:HG12	1:j:714:THR:HG23	1.90	0.54
1:n:456:PHE:HA	1:n:459:TYR:HD2	1.72	0.54
1:r:432:ASP:HB2	1:r:452:GLY:HA3	1.89	0.54
1:u:341:ILE:H	1:u:631:GLN:HE22	1.55	0.54
1:w:311:VAL:HG22	1:w:320:ILE:HG12	1.88	0.54
1:y:432:ASP:HB2	1:y:452:GLY:HA3	1.89	0.54
1:2:432:ASP:HB2	1:2:452:GLY:HA3	1.89	0.54
1:3:456:PHE:HA	1:3:459:TYR:HD2	1.72	0.54
1:8:456:PHE:HA	1:8:459:TYR:HD2	1.73	0.54
1:D:347:GLU:OE2	1:P:450:LYS:NZ	2.29	0.53
1:E:288:VAL:HG12	1:E:714:THR:HG23	1.90	0.53
1:H:481:ASN:HB3	1:Y:441:THR:HG21	1.90	0.53
1:I:341:ILE:H	1:I:631:GLN:HE22	1.54	0.53
1:M:341:ILE:H	1:M:631:GLN:HE22	1.54	0.53
1:P:288:VAL:HG12	1:P:714:THR:HG23	1.90	0.53
1:R:367:THR:HG22	1:R:368:LEU:N	2.21	0.53
1:R:441:THR:HG21	1:S:481:ASN:HB3	1.91	0.53
1:Z:456:PHE:HA	1:Z:459:TYR:HD2	1.73	0.53
1:d:456:PHE:HA	1:d:459:TYR:HD2	1.72	0.53
1:h:341:ILE:H	1:h:631:GLN:HE22	1.54	0.53
1:i:456:PHE:HA	1:i:459:TYR:HD2	1.72	0.53
1:l:341:ILE:H	1:l:631:GLN:HE22	1.54	0.53
1:p:341:ILE:H	1:p:631:GLN:HE22	1.54	0.53
1:w:347:GLU:OE2	1:y:450:LYS:NZ	2.28	0.53
1:1:367:THR:HG22	1:1:368:LEU:N	2.21	0.53
1:B:367:THR:HG22	1:B:368:LEU:N	2.21	0.53
1:E:456:PHE:HA	1:E:459:TYR:HD2	1.72	0.53
1:J:432:ASP:HB2	1:J:452:GLY:HA3	1.89	0.53
1:O:341:ILE:H	1:O:631:GLN:HE22	1.54	0.53
1:a:456:PHE:HA	1:a:459:TYR:HD2	1.72	0.53
1:l:288:VAL:HG12	1:l:714:THR:HG23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:288:VAL:HG12	1:m:714:THR:HG23	1.90	0.53
1:v:686:TYR:CD1	1:v:710[B]:ARG:NH2	2.76	0.53
1:3:288:VAL:HG12	1:3:714:THR:HG23	1.90	0.53
1:A:456:PHE:HA	1:A:459:TYR:HD2	1.72	0.53
1:E:481:ASN:HB3	1:F:441:THR:HG21	1.90	0.53
1:F:341:ILE:H	1:F:631:GLN:HE22	1.54	0.53
1:I:342:LEU:HD13	1:I:631:GLN:HE21	1.74	0.53
1:N:288:VAL:HG12	1:N:714:THR:HG23	1.90	0.53
1:Q:432:ASP:HB2	1:Q:452:GLY:HA3	1.89	0.53
1:S:288:VAL:HG12	1:S:714:THR:HG23	1.90	0.53
1:W:342:LEU:HD13	1:W:631:GLN:HE21	1.74	0.53
1:W:432:ASP:HB2	1:W:452:GLY:HA3	1.89	0.53
1:a:288:VAL:HG12	1:a:714:THR:HG23	1.90	0.53
1:d:341:ILE:H	1:d:631:GLN:HE22	1.55	0.53
1:i:288:VAL:HG12	1:i:714:THR:HG23	1.90	0.53
1:n:341:ILE:H	1:n:631:GLN:HE22	1.54	0.53
1:q:367:THR:HG22	1:q:368:LEU:N	2.21	0.53
1:q:686:TYR:HD1	1:q:710[B]:ARG:NH2	2.05	0.53
1:u:342:LEU:HD13	1:u:631:GLN:HE21	1.74	0.53
1:x:432:ASP:HB2	1:x:452:GLY:HA3	1.89	0.53
1:y:341:ILE:H	1:y:631:GLN:HE22	1.54	0.53
1:4:456:PHE:HA	1:4:459:TYR:HD2	1.72	0.53
1:6:342:LEU:HD13	1:6:631:GLN:HE21	1.74	0.53
1:F:432:ASP:HB2	1:F:452:GLY:HA3	1.89	0.53
1:K:456:PHE:HA	1:K:459:TYR:HD2	1.73	0.53
1:M:288:VAL:HG12	1:M:714:THR:HG23	1.90	0.53
1:T:288:VAL:HG12	1:T:714:THR:HG23	1.90	0.53
1:U:288:VAL:HG12	1:U:714:THR:HG23	1.90	0.53
1:V:341:ILE:H	1:V:631:GLN:HE22	1.54	0.53
1:a:341:ILE:H	1:a:631:GLN:HE22	1.55	0.53
1:a:342:LEU:HD13	1:a:631:GLN:HE21	1.74	0.53
1:e:367:THR:HG22	1:e:368:LEU:N	2.21	0.53
1:h:288:VAL:HG12	1:h:714:THR:HG23	1.90	0.53
1:h:342:LEU:HD13	1:h:631:GLN:HE21	1.74	0.53
1:r:288:VAL:HG12	1:r:714:THR:HG23	1.90	0.53
1:z:686:TYR:HE1	1:z:710[A]:ARG:NH2	2.07	0.53
1:4:341:ILE:H	1:4:631:GLN:HE22	1.55	0.53
1:6:450:LYS:NZ	1:7:347:GLU:OE2	2.29	0.53
1:8:342:LEU:HD13	1:8:631:GLN:HE21	1.74	0.53
1:D:342:LEU:HD13	1:D:631:GLN:HE21	1.74	0.53
1:I:234:THR:OG1	1:I:664:MET:O	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:342:LEU:HD13	1:J:631:GLN:HE21	1.74	0.53
1:K:341:ILE:H	1:K:631:GLN:HE22	1.55	0.53
1:M:342:LEU:HD13	1:M:631:GLN:HE21	1.74	0.53
1:M:456:PHE:HA	1:M:459:TYR:HD2	1.72	0.53
1:O:288:VAL:HG12	1:O:714:THR:HG23	1.90	0.53
1:T:341:ILE:H	1:T:631:GLN:HE22	1.55	0.53
1:Z:342:LEU:HD13	1:Z:631:GLN:HE21	1.74	0.53
1:l:367:THR:HG22	1:l:368:LEU:N	2.21	0.53
1:m:341:ILE:H	1:m:631:GLN:HE22	1.55	0.53
1:s:288:VAL:HG12	1:s:714:THR:HG23	1.90	0.53
1:u:234:THR:OG1	1:u:664:MET:O	2.26	0.53
1:u:288:VAL:HG12	1:u:714:THR:HG23	1.90	0.53
1:w:456:PHE:HA	1:w:459:TYR:HD2	1.72	0.53
1:2:342:LEU:HD13	1:2:631:GLN:HE21	1.74	0.53
1:3:341:ILE:H	1:3:631:GLN:HE22	1.55	0.53
1:3:342:LEU:HD13	1:3:631:GLN:HE21	1.74	0.53
1:6:432:ASP:HB2	1:6:452:GLY:HA3	1.89	0.53
1:7:456:PHE:HA	1:7:459:TYR:HD2	1.72	0.53
1:D:259:VAL:HB	1:D:377:ASN:OD1	2.09	0.53
1:D:450:LYS:NZ	1:N:347:GLU:OE2	2.28	0.53
1:G:259:VAL:HB	1:G:377:ASN:OD1	2.09	0.53
1:I:288:VAL:HG12	1:I:714:THR:HG23	1.90	0.53
1:I:367:THR:HG22	1:I:368:LEU:N	2.21	0.53
1:J:341:ILE:H	1:J:631:GLN:HE22	1.54	0.53
1:K:259:VAL:HB	1:K:377:ASN:OD1	2.09	0.53
1:L:342:LEU:HD13	1:L:631:GLN:HE21	1.74	0.53
1:N:367:THR:HG22	1:N:368:LEU:N	2.21	0.53
1:O:367:THR:HG22	1:O:368:LEU:N	2.21	0.53
1:e:342:LEU:HD13	1:e:631:GLN:HE21	1.74	0.53
1:k:259:VAL:HB	1:k:377:ASN:OD1	2.09	0.53
1:k:342:LEU:HD13	1:k:631:GLN:HE21	1.74	0.53
1:o:456:PHE:HA	1:o:459:TYR:HD2	1.72	0.53
1:t:259:VAL:HB	1:t:377:ASN:OD1	2.09	0.53
1:v:456:PHE:HA	1:v:459:TYR:HD2	1.72	0.53
1:z:342:LEU:HD13	1:z:631:GLN:HE21	1.74	0.53
1:E:367:THR:HG22	1:E:368:LEU:N	2.21	0.53
1:S:367:THR:HG22	1:S:368:LEU:N	2.21	0.53
1:Y:456:PHE:HA	1:Y:459:TYR:HD2	1.72	0.53
1:Z:234:THR:OG1	1:Z:664:MET:O	2.26	0.53
1:c:342:LEU:HD13	1:c:631:GLN:HE21	1.74	0.53
1:c:367:THR:HG22	1:c:368:LEU:N	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:259:VAL:HB	1:e:377:ASN:OD1	2.09	0.53
1:k:288:VAL:HG12	1:k:714:THR:HG23	1.90	0.53
1:x:342:LEU:HD13	1:x:631:GLN:HE21	1.74	0.53
1:y:259:VAL:HB	1:y:377:ASN:OD1	2.09	0.53
1:z:456:PHE:HA	1:z:459:TYR:HD2	1.72	0.53
1:1:288:VAL:HG12	1:1:714:THR:HG23	1.90	0.53
1:2:341:ILE:H	1:2:631:GLN:HE22	1.55	0.53
1:4:259:VAL:HB	1:4:377:ASN:OD1	2.09	0.53
1:8:234:THR:OG1	1:8:664:MET:O	2.26	0.53
1:A:342:LEU:HD13	1:A:631:GLN:HE21	1.74	0.53
1:F:259:VAL:HB	1:F:377:ASN:OD1	2.09	0.53
1:L:259:VAL:HB	1:L:377:ASN:OD1	2.09	0.53
1:Q:342:LEU:HD13	1:Q:631:GLN:HE21	1.74	0.53
1:R:342:LEU:HD13	1:R:631:GLN:HE21	1.74	0.53
1:T:342:LEU:HD13	1:T:631:GLN:HE21	1.74	0.53
1:W:259:VAL:HB	1:W:377:ASN:OD1	2.09	0.53
1:Y:259:VAL:HB	1:Y:377:ASN:OD1	2.09	0.53
1:c:259:VAL:HB	1:c:377:ASN:OD1	2.09	0.53
1:m:342:LEU:HD13	1:m:631:GLN:HE21	1.74	0.53
1:p:288:VAL:HG12	1:p:714:THR:HG23	1.90	0.53
1:p:456:PHE:HA	1:p:459:TYR:HD2	1.72	0.53
1:v:342:LEU:HD13	1:v:631:GLN:HE21	1.74	0.53
1:y:342:LEU:HD13	1:y:631:GLN:HE21	1.74	0.53
1:7:259:VAL:HB	1:7:377:ASN:OD1	2.09	0.53
1:B:288:VAL:HG12	1:B:714:THR:HG23	1.90	0.53
1:D:288:VAL:HG12	1:D:714:THR:HG23	1.90	0.53
1:F:342:LEU:HD13	1:F:631:GLN:HE21	1.74	0.53
1:L:456:PHE:HA	1:L:459:TYR:HD2	1.72	0.53
1:N:342:LEU:HD13	1:N:631:GLN:HE21	1.74	0.53
1:V:288:VAL:HG12	1:V:714:THR:HG23	1.90	0.53
1:V:456:PHE:HA	1:V:459:TYR:HD2	1.73	0.53
1:W:456:PHE:HA	1:W:459:TYR:HD2	1.72	0.53
1:d:288:VAL:HG12	1:d:714:THR:HG23	1.90	0.53
1:f:450:LYS:NZ	1:h:347:GLU:OE2	2.29	0.53
1:i:342:LEU:HD13	1:i:631:GLN:HE21	1.74	0.53
1:n:288:VAL:HG12	1:n:714:THR:HG23	1.90	0.53
1:q:342:LEU:HD13	1:q:631:GLN:HE21	1.74	0.53
1:r:367:THR:HG22	1:r:368:LEU:N	2.21	0.53
1:z:259:VAL:HB	1:z:377:ASN:OD1	2.09	0.53
1:z:367:THR:HG22	1:z:368:LEU:N	2.21	0.53
1:2:259:VAL:HB	1:2:377:ASN:OD1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:259:VAL:HB	1:6:377:ASN:OD1	2.09	0.53
1:D:428:ASN:H	1:N:346:HIS:CE1	2.27	0.53
1:E:347:GLU:OE2	1:F:450:LYS:NZ	2.29	0.53
1:G:276:HIS:HD2	1:G:600:GLN:HA	1.74	0.53
1:G:441:THR:HG21	1:I:481:ASN:HB3	1.91	0.53
1:H:288:VAL:HG12	1:H:714:THR:HG23	1.90	0.53
1:L:367:THR:HG22	1:L:368:LEU:N	2.21	0.53
1:N:259:VAL:HB	1:N:377:ASN:OD1	2.09	0.53
1:P:259:VAL:HB	1:P:377:ASN:OD1	2.09	0.53
1:S:342:LEU:HD13	1:S:631:GLN:HE21	1.74	0.53
1:T:441:THR:HG21	1:d:481:ASN:HB3	1.90	0.53
1:U:259:VAL:HB	1:U:377:ASN:OD1	2.09	0.53
1:X:456:PHE:HA	1:X:459:TYR:HD2	1.73	0.53
1:Y:288:VAL:HG12	1:Y:714:THR:HG23	1.90	0.53
1:b:234:THR:OG1	1:b:664:MET:O	2.26	0.53
1:e:276:HIS:HD2	1:e:600:GLN:HA	1.74	0.53
1:g:259:VAL:HB	1:g:377:ASN:OD1	2.09	0.53
1:h:276:HIS:HD2	1:h:600:GLN:HA	1.74	0.53
1:h:456:PHE:HA	1:h:459:TYR:HD2	1.72	0.53
1:p:367:THR:HG22	1:p:368:LEU:N	2.21	0.53
1:r:276:HIS:HD2	1:r:600:GLN:HA	1.74	0.53
1:r:342:LEU:HD13	1:r:631:GLN:HE21	1.74	0.53
1:u:367:THR:HG22	1:u:368:LEU:N	2.21	0.53
1:u:456:PHE:HA	1:u:459:TYR:HD2	1.72	0.53
1:w:259:VAL:HB	1:w:377:ASN:OD1	2.09	0.53
1:w:367:THR:HG22	1:w:368:LEU:N	2.21	0.53
1:5:288:VAL:HG12	1:5:714:THR:HG23	1.90	0.53
1:B:276:HIS:HD2	1:B:600:GLN:HA	1.74	0.52
1:B:441:THR:HG21	1:J:481:ASN:HB3	1.91	0.52
1:C:259:VAL:HB	1:C:377:ASN:OD1	2.09	0.52
1:G:342:LEU:HD13	1:G:631:GLN:HE21	1.74	0.52
1:H:342:LEU:HD13	1:H:631:GLN:HE21	1.74	0.52
1:I:456:PHE:HA	1:I:459:TYR:HD2	1.72	0.52
1:J:259:VAL:HB	1:J:377:ASN:OD1	2.09	0.52
1:O:450:LYS:NZ	1:m:347:GLU:OE2	2.29	0.52
1:S:276:HIS:HD2	1:S:600:GLN:HA	1.74	0.52
1:V:367:THR:HG22	1:V:368:LEU:N	2.21	0.52
1:Z:259:VAL:HB	1:Z:377:ASN:OD1	2.09	0.52
1:Z:276:HIS:HD2	1:Z:600:GLN:HA	1.74	0.52
1:f:234:THR:OG1	1:f:664:MET:O	2.26	0.52
1:i:391:PHE:CE1	1:k:678:LYS:HD3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:259:VAL:HB	1:j:377:ASN:OD1	2.09	0.52
1:m:276:HIS:HD2	1:m:600:GLN:HA	1.75	0.52
1:s:259:VAL:HB	1:s:377:ASN:OD1	2.09	0.52
1:s:342:LEU:HD13	1:s:631:GLN:HE21	1.74	0.52
1:t:276:HIS:HD2	1:t:600:GLN:HA	1.75	0.52
1:t:288:VAL:HG12	1:t:714:THR:HG23	1.90	0.52
1:t:342:LEU:HD13	1:t:631:GLN:HE21	1.74	0.52
1:z:686:TYR:HE1	1:z:710[B]:ARG:NH2	2.07	0.52
1:1:276:HIS:HD2	1:1:600:GLN:HA	1.74	0.52
1:5:276:HIS:HD2	1:5:600:GLN:HA	1.74	0.52
1:7:288:VAL:HG12	1:7:714:THR:HG23	1.90	0.52
1:8:276:HIS:HD2	1:8:600:GLN:HA	1.74	0.52
1:E:259:VAL:HB	1:E:377:ASN:OD1	2.09	0.52
1:H:259:VAL:HB	1:H:377:ASN:OD1	2.09	0.52
1:M:276:HIS:HD2	1:M:600:GLN:HA	1.75	0.52
1:Q:259:VAL:HB	1:Q:377:ASN:OD1	2.09	0.52
1:T:259:VAL:HB	1:T:377:ASN:OD1	2.09	0.52
1:T:276:HIS:HD2	1:T:600:GLN:HA	1.75	0.52
1:V:276:HIS:HD2	1:V:600:GLN:HA	1.74	0.52
1:X:259:VAL:HB	1:X:377:ASN:OD1	2.09	0.52
1:f:288:VAL:HG12	1:f:714:THR:HG23	1.90	0.52
1:i:259:VAL:HB	1:i:377:ASN:OD1	2.09	0.52
1:m:259:VAL:HB	1:m:377:ASN:OD1	2.09	0.52
1:o:276:HIS:HD2	1:o:600:GLN:HA	1.74	0.52
1:o:342:LEU:HD13	1:o:631:GLN:HE21	1.74	0.52
1:5:259:VAL:HB	1:5:377:ASN:OD1	2.09	0.52
1:5:342:LEU:HD13	1:5:631:GLN:HE21	1.74	0.52
1:8:259:VAL:HB	1:8:377:ASN:OD1	2.09	0.52
1:C:276:HIS:HD2	1:C:600:GLN:HA	1.74	0.52
1:C:428:ASN:H	1:b:346:HIS:CE1	2.27	0.52
1:F:288:VAL:HG12	1:F:714:THR:HG23	1.90	0.52
1:G:288:VAL:HG12	1:G:714:THR:HG23	1.90	0.52
1:H:276:HIS:HD2	1:H:600:GLN:HA	1.75	0.52
1:N:234:THR:OG1	1:N:664:MET:O	2.26	0.52
1:U:342:LEU:HD13	1:U:631:GLN:HE21	1.74	0.52
1:b:259:VAL:HB	1:b:377:ASN:OD1	2.09	0.52
1:c:276:HIS:HD2	1:c:600:GLN:HA	1.75	0.52
1:n:259:VAL:HB	1:n:377:ASN:OD1	2.09	0.52
1:o:259:VAL:HB	1:o:377:ASN:OD1	2.09	0.52
1:p:276:HIS:HD2	1:p:600:GLN:HA	1.75	0.52
1:q:276:HIS:HD2	1:q:600:GLN:HA	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:259:VAL:HB	1:x:377:ASN:OD1	2.09	0.52
1:1:686:TYR:CD1	1:1:710[B]:ARG:NH2	2.77	0.52
1:7:342:LEU:HD13	1:7:631:GLN:HE21	1.74	0.52
1:8:288:VAL:HG12	1:8:714:THR:HG23	1.90	0.52
1:E:342:LEU:HD13	1:E:631:GLN:HE21	1.74	0.52
1:R:276:HIS:HD2	1:R:600:GLN:HA	1.74	0.52
1:a:259:VAL:HB	1:a:377:ASN:OD1	2.09	0.52
1:b:288:VAL:HG12	1:b:714:THR:HG23	1.90	0.52
1:c:288:VAL:HG12	1:c:714:THR:HG23	1.90	0.52
1:d:259:VAL:HB	1:d:377:ASN:OD1	2.09	0.52
1:f:259:VAL:HB	1:f:377:ASN:OD1	2.09	0.52
1:h:259:VAL:HB	1:h:377:ASN:OD1	2.09	0.52
1:i:234:THR:OG1	1:i:664:MET:O	2.26	0.52
1:k:276:HIS:HD2	1:k:600:GLN:HA	1.75	0.52
1:u:259:VAL:HB	1:u:377:ASN:OD1	2.09	0.52
1:y:288:VAL:HG12	1:y:714:THR:HG23	1.90	0.52
1:4:342:LEU:HD13	1:4:631:GLN:HE21	1.74	0.52
1:7:276:HIS:HD2	1:7:600:GLN:HA	1.75	0.52
1:A:288:VAL:HG12	1:A:714:THR:HG23	1.90	0.52
1:I:259:VAL:HB	1:I:377:ASN:OD1	2.09	0.52
1:M:259:VAL:HB	1:M:377:ASN:OD1	2.09	0.52
1:O:686:TYR:CE1	1:O:710[B]:ARG:NH2	2.78	0.52
1:Q:276:HIS:HD2	1:Q:600:GLN:HA	1.75	0.52
1:X:288:VAL:HG12	1:X:714:THR:HG23	1.90	0.52
1:Y:276:HIS:HD2	1:Y:600:GLN:HA	1.75	0.52
1:Y:342:LEU:HD13	1:Y:631:GLN:HE21	1.74	0.52
1:Z:288:VAL:HG12	1:Z:714:THR:HG23	1.90	0.52
1:c:481:ASN:HB3	1:p:441:THR:HG21	1.92	0.52
1:e:288:VAL:HG12	1:e:714:THR:HG23	1.90	0.52
1:f:481:ASN:HB3	1:g:441:THR:HG21	1.92	0.52
1:g:276:HIS:HD2	1:g:600:GLN:HA	1.75	0.52
1:q:259:VAL:HB	1:q:377:ASN:OD1	2.09	0.52
1:s:686:TYR:HE1	1:s:710[B]:ARG:NH2	2.07	0.52
1:t:678:LYS:HD3	1:u:391:PHE:CE1	2.45	0.52
1:D:276:HIS:HD2	1:D:600:GLN:HA	1.75	0.52
1:K:288:VAL:HG12	1:K:714:THR:HG23	1.90	0.52
1:K:342:LEU:HD13	1:K:631:GLN:HE21	1.74	0.52
1:P:342:LEU:HD13	1:P:631:GLN:HE21	1.74	0.52
1:Q:329:GLN:HE21	1:Q:635:LYS:HE2	1.75	0.52
1:R:234:THR:OG1	1:R:664:MET:O	2.26	0.52
1:S:259:VAL:HB	1:S:377:ASN:OD1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:342:LEU:HD13	1:V:631:GLN:HE21	1.74	0.52
1:X:276:HIS:HD2	1:X:600:GLN:HA	1.75	0.52
1:X:342:LEU:HD13	1:X:631:GLN:HE21	1.74	0.52
1:a:428:ASN:H	1:8:346:HIS:CE1	2.28	0.52
1:j:342:LEU:HD13	1:j:631:GLN:HE21	1.74	0.52
1:q:234:THR:OG1	1:q:664:MET:O	2.26	0.52
1:u:686:TYR:CE1	1:u:710[A]:ARG:NH2	2.77	0.52
1:v:259:VAL:HB	1:v:377:ASN:OD1	2.09	0.52
1:w:342:LEU:HD13	1:w:631:GLN:HE21	1.74	0.52
1:w:678:LYS:HD3	1:x:391:PHE:CE1	2.45	0.52
1:x:276:HIS:HD2	1:x:600:GLN:HA	1.75	0.52
1:x:686:TYR:CE1	1:x:710[A]:ARG:NH2	2.77	0.52
1:3:259:VAL:HB	1:3:377:ASN:OD1	2.09	0.52
1:A:259:VAL:HB	1:A:377:ASN:OD1	2.09	0.52
1:B:342:LEU:HD13	1:B:631:GLN:HE21	1.74	0.52
1:K:329:GLN:HE21	1:K:635:LYS:HE2	1.75	0.52
1:L:276:HIS:HD2	1:L:600:GLN:HA	1.75	0.52
1:N:276:HIS:HD2	1:N:600:GLN:HA	1.75	0.52
1:N:441:THR:HG21	1:P:481:ASN:HB3	1.90	0.52
1:R:259:VAL:HB	1:R:377:ASN:OD1	2.09	0.52
1:V:259:VAL:HB	1:V:377:ASN:OD1	2.09	0.52
1:d:342:LEU:HD13	1:d:631:GLN:HE21	1.74	0.52
1:f:391:PHE:CE1	1:g:678:LYS:HD3	2.45	0.52
1:i:276:HIS:HD2	1:i:600:GLN:HA	1.75	0.52
1:i:710[B]:ARG:HB3	1:i:710[B]:ARG:HH11	1.75	0.52
1:l:342:LEU:HD13	1:l:631:GLN:HE21	1.74	0.52
1:o:288:VAL:HG12	1:o:714:THR:HG23	1.90	0.52
1:p:259:VAL:HB	1:p:377:ASN:OD1	2.09	0.52
1:p:342:LEU:HD13	1:p:631:GLN:HE21	1.74	0.52
1:r:259:VAL:HB	1:r:377:ASN:OD1	2.09	0.52
1:v:288:VAL:HG12	1:v:714:THR:HG23	1.90	0.52
1:x:329:GLN:HE21	1:x:635:LYS:HE2	1.75	0.52
1:y:686:TYR:CE1	1:y:710[A]:ARG:CZ	2.93	0.52
1:4:288:VAL:HG12	1:4:714:THR:HG23	1.90	0.52
1:4:329:GLN:HE21	1:4:635:LYS:HE2	1.75	0.52
1:O:456:PHE:HA	1:O:459:TYR:HD2	1.72	0.52
1:U:329:GLN:HE21	1:U:635:LYS:HE2	1.75	0.52
1:X:234:THR:OG1	1:X:664:MET:O	2.26	0.52
1:b:276:HIS:HD2	1:b:600:GLN:HA	1.75	0.52
1:l:456:PHE:HA	1:l:459:TYR:HD2	1.73	0.52
1:n:342:LEU:HD13	1:n:631:GLN:HE21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:329:GLN:HE21	1:s:635:LYS:HE2	1.75	0.52
1:s:686:TYR:HE1	1:s:710[A]:ARG:NH2	2.07	0.52
1:w:686:TYR:CD1	1:w:710[B]:ARG:NH2	2.78	0.52
1:z:276:HIS:HD2	1:z:600:GLN:HA	1.75	0.52
1:6:276:HIS:HD2	1:6:600:GLN:HA	1.75	0.52
1:H:329:GLN:HE21	1:H:635:LYS:HE2	1.75	0.52
1:O:276:HIS:HD2	1:O:600:GLN:HA	1.74	0.52
1:O:342:LEU:HD13	1:O:631:GLN:HE21	1.74	0.52
1:W:288:VAL:HG12	1:W:714:THR:HG23	1.90	0.52
1:b:342:LEU:HD13	1:b:631:GLN:HE21	1.74	0.52
1:f:342:LEU:HD13	1:f:631:GLN:HE21	1.74	0.52
1:j:329:GLN:HE21	1:j:635:LYS:HE2	1.75	0.52
1:l:276:HIS:HD2	1:l:600:GLN:HA	1.74	0.52
1:r:441:THR:HG21	1:s:481:ASN:HB3	1.92	0.52
1:1:342:LEU:HD13	1:1:631:GLN:HE21	1.74	0.52
1:2:276:HIS:HD2	1:2:600:GLN:HA	1.74	0.52
1:C:288:VAL:HG12	1:C:714:THR:HG23	1.90	0.52
1:C:329:GLN:HE21	1:C:635:LYS:HE2	1.75	0.52
1:J:276:HIS:HD2	1:J:600:GLN:HA	1.74	0.52
1:K:481:ASN:HB3	1:8:441:THR:HG21	1.92	0.52
1:L:288:VAL:HG12	1:L:714:THR:HG23	1.90	0.52
1:P:329:GLN:HE21	1:P:635:LYS:HE2	1.75	0.52
1:W:276:HIS:HD2	1:W:600:GLN:HA	1.75	0.52
1:j:276:HIS:HD2	1:j:600:GLN:HA	1.74	0.52
1:l:259:VAL:HB	1:l:377:ASN:OD1	2.09	0.52
1:o:234:THR:OG1	1:o:664:MET:O	2.26	0.52
1:r:678:LYS:HD3	1:s:391:PHE:CE1	2.45	0.52
1:5:329:GLN:HE21	1:5:635:LYS:HE2	1.75	0.52
1:6:288:VAL:HG12	1:6:714:THR:HG23	1.90	0.52
1:7:710[B]:ARG:HB3	1:7:710[B]:ARG:HH11	1.75	0.52
1:J:234:THR:OG1	1:J:664:MET:O	2.26	0.51
1:J:288:VAL:HG12	1:J:714:THR:HG23	1.90	0.51
1:O:259:VAL:HB	1:O:377:ASN:OD1	2.09	0.51
1:P:276:HIS:HD2	1:P:600:GLN:HA	1.75	0.51
1:V:428:ASN:H	1:e:346:HIS:CE1	2.27	0.51
1:Y:234:THR:OG1	1:Y:664:MET:O	2.26	0.51
1:b:329:GLN:HE21	1:b:635:LYS:HE2	1.75	0.51
1:c:391:PHE:CE1	1:p:678:LYS:HD3	2.45	0.51
1:d:428:ASN:H	1:l:346:HIS:CE1	2.28	0.51
1:g:288:VAL:HG12	1:g:714:THR:HG23	1.90	0.51
1:g:329:GLN:HE21	1:g:635:LYS:HE2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:329:GLN:HE21	1:l:635:LYS:HE2	1.75	0.51
1:n:276:HIS:HD2	1:n:600:GLN:HA	1.75	0.51
1:v:276:HIS:HD2	1:v:600:GLN:HA	1.75	0.51
1:2:234:THR:OG1	1:2:664:MET:O	2.26	0.51
1:4:276:HIS:HD2	1:4:600:GLN:HA	1.75	0.51
1:6:678:LYS:HD3	1:7:391:PHE:CE1	2.44	0.51
1:A:276:HIS:HD2	1:A:600:GLN:HA	1.75	0.51
1:E:441:THR:HG21	1:Q:481:ASN:HB3	1.92	0.51
1:K:276:HIS:HD2	1:K:600:GLN:HA	1.75	0.51
1:O:329:GLN:HE21	1:O:635:LYS:HE2	1.75	0.51
1:a:276:HIS:HD2	1:a:600:GLN:HA	1.74	0.51
1:f:276:HIS:HD2	1:f:600:GLN:HA	1.75	0.51
1:f:329:GLN:HE21	1:f:635:LYS:HE2	1.75	0.51
1:i:481:ASN:HB3	1:k:441:THR:HG21	1.92	0.51
1:o:329:GLN:HE21	1:o:635:LYS:HE2	1.75	0.51
1:q:686:TYR:CD1	1:q:710[B]:ARG:NH2	2.77	0.51
1:t:329:GLN:HE21	1:t:635:LYS:HE2	1.75	0.51
1:t:610:THR:HA	1:v:593:GLN:NE2	2.25	0.51
1:w:329:GLN:HE21	1:w:635:LYS:HE2	1.75	0.51
1:z:288:VAL:HG12	1:z:714:THR:HG23	1.90	0.51
1:2:288:VAL:HG12	1:2:714:THR:HG23	1.90	0.51
1:6:329:GLN:HE21	1:6:635:LYS:HE2	1.75	0.51
1:C:342:LEU:HD13	1:C:631:GLN:HE21	1.74	0.51
1:G:329:GLN:HE21	1:G:635:LYS:HE2	1.75	0.51
1:W:428:ASN:H	1:Y:346:HIS:CE1	2.27	0.51
1:X:227:ASP:OD1	1:X:228[B]:ARG:HD3	2.11	0.51
1:X:329:GLN:HE21	1:X:635:LYS:HE2	1.75	0.51
1:Z:441:THR:HG21	1:4:481:ASN:HB3	1.92	0.51
1:c:687:THR:O	1:c:710[A]:ARG:NH1	2.36	0.51
1:d:276:HIS:HD2	1:d:600:GLN:HA	1.74	0.51
1:e:329:GLN:HE21	1:e:635:LYS:HE2	1.75	0.51
1:g:342:LEU:HD13	1:g:631:GLN:HE21	1.74	0.51
1:D:329:GLN:HE21	1:D:635:LYS:HE2	1.75	0.51
1:E:329:GLN:HE21	1:E:635:LYS:HE2	1.75	0.51
1:M:481:ASN:HB3	1:b:441:THR:HG21	1.92	0.51
1:T:347:GLU:OE2	1:l:450:LYS:NZ	2.29	0.51
1:W:329:GLN:HE21	1:W:635:LYS:HE2	1.75	0.51
1:Z:686:TYR:CE1	1:Z:710[B]:ARG:NH2	2.77	0.51
1:k:329:GLN:HE21	1:k:635:LYS:HE2	1.75	0.51
1:u:329:GLN:HE21	1:u:635:LYS:HE2	1.75	0.51
1:w:610:THR:HA	1:y:593:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:228[A]:ARG:HD2	1:z:669:GLU:OE2	2.10	0.51
1:z:481:ASN:HB3	1:2:441:THR:HG21	1.92	0.51
1:3:276:HIS:HD2	1:3:600:GLN:HA	1.75	0.51
1:A:329:GLN:HE21	1:A:635:LYS:HE2	1.75	0.51
1:G:234:THR:OG1	1:G:664:MET:O	2.26	0.51
1:O:391:PHE:CE1	1:n:678:LYS:HD3	2.45	0.51
1:O:416:MET:HG2	1:O:714:THR:CG2	2.41	0.51
1:S:234:THR:OG1	1:S:664:MET:O	2.26	0.51
1:U:276:HIS:HD2	1:U:600:GLN:HA	1.75	0.51
1:U:416:MET:HG2	1:U:714:THR:CG2	2.41	0.51
1:c:329:GLN:HE21	1:c:635:LYS:HE2	1.75	0.51
1:c:416:MET:HG2	1:c:714:THR:CG2	2.41	0.51
1:f:416:MET:HG2	1:f:714:THR:CG2	2.41	0.51
1:l:416:MET:HG2	1:l:714:THR:CG2	2.41	0.51
1:r:234:THR:OG1	1:r:664:MET:O	2.26	0.51
1:s:689:ASN:HB3	1:s:697:GLN:NE2	2.26	0.51
1:v:689:ASN:HB3	1:v:697:GLN:NE2	2.26	0.51
1:y:416:MET:HG2	1:y:714:THR:CG2	2.41	0.51
1:5:255:THR:HG23	1:5:374:ASN:O	2.11	0.51
1:7:416:MET:HG2	1:7:714:THR:CG2	2.41	0.51
1:A:234:THR:OG1	1:A:664:MET:O	2.26	0.51
1:A:689:ASN:HB3	1:A:697:GLN:NE2	2.26	0.51
1:B:259:VAL:HB	1:B:377:ASN:OD1	2.09	0.51
1:D:255:THR:HG23	1:D:374:ASN:O	2.11	0.51
1:I:276:HIS:HD2	1:I:600:GLN:HA	1.74	0.51
1:I:329:GLN:HE21	1:I:635:LYS:HE2	1.75	0.51
1:M:416:MET:HG2	1:M:714:THR:CG2	2.41	0.51
1:O:689:ASN:HB3	1:O:697:GLN:NE2	2.26	0.51
1:R:689:ASN:HB3	1:R:697:GLN:NE2	2.26	0.51
1:S:416:MET:HG2	1:S:714:THR:CG2	2.41	0.51
1:U:689:ASN:HB3	1:U:697:GLN:NE2	2.26	0.51
1:X:255:THR:HG23	1:X:374:ASN:O	2.11	0.51
1:a:255:THR:HG23	1:a:374:ASN:O	2.11	0.51
1:e:416:MET:HG2	1:e:714:THR:CG2	2.41	0.51
1:p:234:THR:OG1	1:p:664:MET:O	2.26	0.51
1:q:689:ASN:HB3	1:q:697:GLN:NE2	2.26	0.51
1:s:416:MET:HG2	1:s:714:THR:CG2	2.41	0.51
1:u:255:THR:HG23	1:u:374:ASN:O	2.11	0.51
1:u:276:HIS:HD2	1:u:600:GLN:HA	1.75	0.51
1:E:689:ASN:HB3	1:E:697:GLN:NE2	2.26	0.51
1:F:416:MET:HG2	1:F:714:THR:CG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:255:THR:HG23	1:H:374:ASN:O	2.11	0.51
1:I:255:THR:HG23	1:I:374:ASN:O	2.11	0.51
1:L:329:GLN:HE21	1:L:635:LYS:HE2	1.75	0.51
1:S:441:THR:HG21	1:U:481:ASN:HB3	1.93	0.51
1:V:416:MET:HG2	1:V:714:THR:CG2	2.41	0.51
1:Y:416:MET:HG2	1:Y:714:THR:CG2	2.41	0.51
1:Z:391:PHE:CE1	1:3:678:LYS:HD3	2.45	0.51
1:b:416:MET:HG2	1:b:714:THR:CG2	2.41	0.51
1:c:255:THR:HG23	1:c:374:ASN:O	2.11	0.51
1:e:255:THR:HG23	1:e:374:ASN:O	2.11	0.51
1:f:347:GLU:OE2	1:g:450:LYS:NZ	2.28	0.51
1:h:416:MET:HG2	1:h:714:THR:CG2	2.41	0.51
1:i:416:MET:HG2	1:i:714:THR:CG2	2.41	0.51
1:k:255:THR:HG23	1:k:374:ASN:O	2.11	0.51
1:l:689:ASN:HB3	1:l:697:GLN:NE2	2.26	0.51
1:o:255:THR:HG23	1:o:374:ASN:O	2.11	0.51
1:p:416:MET:HG2	1:p:714:THR:CG2	2.41	0.51
1:r:416:MET:HG2	1:r:714:THR:CG2	2.41	0.51
1:t:416:MET:HG2	1:t:714:THR:CG2	2.41	0.51
1:t:686:TYR:CD1	1:t:710[B]:ARG:NH2	2.78	0.51
1:v:686:TYR:CE1	1:v:710[A]:ARG:NH2	2.79	0.51
1:w:391:PHE:CE1	1:y:678:LYS:HD3	2.46	0.51
1:z:329:GLN:HE21	1:z:635:LYS:HE2	1.75	0.51
1:1:259:VAL:HB	1:1:377:ASN:OD1	2.09	0.51
1:1:689:ASN:HB3	1:1:697:GLN:NE2	2.26	0.51
1:3:329:GLN:HE21	1:3:635:LYS:HE2	1.75	0.51
1:6:416:MET:HG2	1:6:714:THR:CG2	2.41	0.51
1:6:456:PHE:HA	1:6:459:TYR:HD2	1.72	0.51
1:B:416:MET:HG2	1:B:714:THR:CG2	2.41	0.51
1:B:689:ASN:HB3	1:B:697:GLN:NE2	2.26	0.51
1:C:381:PRO:HB2	1:M:684:ILE:HD11	1.93	0.51
1:K:416:MET:HG2	1:K:714:THR:CG2	2.41	0.51
1:O:255:THR:HG23	1:O:374:ASN:O	2.11	0.51
1:S:255:THR:HG23	1:S:374:ASN:O	2.11	0.51
1:W:416:MET:HG2	1:W:714:THR:CG2	2.41	0.51
1:W:689:ASN:HB3	1:W:697:GLN:NE2	2.26	0.51
1:Z:329:GLN:HE21	1:Z:635:LYS:HE2	1.75	0.51
1:a:329:GLN:HE21	1:a:635:LYS:HE2	1.75	0.51
1:r:255:THR:HG23	1:r:374:ASN:O	2.11	0.51
1:s:276:HIS:HD2	1:s:600:GLN:HA	1.75	0.51
1:t:234:THR:OG1	1:t:664:MET:O	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:255:THR:HG23	1:t:374:ASN:O	2.11	0.51
1:t:450:LYS:NZ	1:u:347:GLU:OE2	2.29	0.51
1:v:686:TYR:CE1	1:v:710[A]:ARG:CZ	2.93	0.51
1:w:689:ASN:HB3	1:w:697:GLN:NE2	2.26	0.51
1:z:416:MET:HG2	1:z:714:THR:CG2	2.41	0.51
1:1:329:GLN:HE21	1:1:635:LYS:HE2	1.75	0.51
1:1:416:MET:HG2	1:1:714:THR:CG2	2.41	0.51
1:3:255:THR:HG23	1:3:374:ASN:O	2.11	0.51
1:A:255:THR:HG23	1:A:374:ASN:O	2.11	0.51
1:E:255:THR:HG23	1:E:374:ASN:O	2.11	0.51
1:G:255:THR:HG23	1:G:374:ASN:O	2.11	0.51
1:G:416:MET:HG2	1:G:714:THR:CG2	2.41	0.51
1:K:255:THR:HG23	1:K:374:ASN:O	2.11	0.51
1:L:416:MET:HG2	1:L:714:THR:CG2	2.41	0.51
1:N:329:GLN:HE21	1:N:635:LYS:HE2	1.75	0.51
1:N:416:MET:HG2	1:N:714:THR:CG2	2.41	0.51
1:Q:255:THR:HG23	1:Q:374:ASN:O	2.11	0.51
1:T:329:GLN:HE21	1:T:635:LYS:HE2	1.75	0.51
1:T:481:ASN:HB3	1:l:441:THR:HG21	1.92	0.51
1:V:234:THR:OG1	1:V:664:MET:O	2.26	0.51
1:Y:689:ASN:HB3	1:Y:697:GLN:NE2	2.26	0.51
1:u:416:MET:HG2	1:u:714:THR:CG2	2.41	0.51
1:u:593:GLN:NE2	1:v:610:THR:HA	2.26	0.51
1:v:234:THR:OG1	1:v:664:MET:O	2.26	0.51
1:v:255:THR:HG23	1:v:374:ASN:O	2.11	0.51
1:v:329:GLN:HE21	1:v:635:LYS:HE2	1.75	0.51
1:w:255:THR:HG23	1:w:374:ASN:O	2.11	0.51
1:w:416:MET:HG2	1:w:714:THR:CG2	2.41	0.51
1:x:255:THR:HG23	1:x:374:ASN:O	2.11	0.51
1:4:416:MET:HG2	1:4:714:THR:CG2	2.41	0.51
1:6:689:ASN:HB3	1:6:697:GLN:NE2	2.26	0.51
1:7:689:ASN:HB3	1:7:697:GLN:NE2	2.26	0.51
1:8:329:GLN:HE21	1:8:635:LYS:HE2	1.75	0.51
1:C:416:MET:HG2	1:C:714:THR:CG2	2.41	0.51
1:J:416:MET:HG2	1:J:714:THR:CG2	2.41	0.51
1:M:689:ASN:HB3	1:M:697:GLN:NE2	2.26	0.51
1:R:416:MET:HG2	1:R:714:THR:CG2	2.41	0.51
1:g:416:MET:HG2	1:g:714:THR:CG2	2.41	0.51
1:h:329:GLN:HE21	1:h:635:LYS:HE2	1.75	0.51
1:i:329:GLN:HE21	1:i:635:LYS:HE2	1.75	0.51
1:l:255:THR:HG23	1:l:374:ASN:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:329:GLN:HE21	1:m:635:LYS:HE2	1.75	0.51
1:s:228[A]:ARG:HD2	1:s:669:GLU:OE2	2.10	0.51
1:z:391:PHE:CE1	1:2:678:LYS:HD3	2.45	0.51
1:4:255:THR:HG23	1:4:374:ASN:O	2.11	0.51
1:B:329:GLN:HE21	1:B:635:LYS:HE2	1.75	0.50
1:D:689:ASN:HB3	1:D:697:GLN:NE2	2.26	0.50
1:E:416:MET:HG2	1:E:714:THR:CG2	2.41	0.50
1:I:416:MET:HG2	1:I:714:THR:CG2	2.41	0.50
1:J:689:ASN:HB3	1:J:697:GLN:NE2	2.26	0.50
1:N:255:THR:HG23	1:N:374:ASN:O	2.11	0.50
1:W:255:THR:HG23	1:W:374:ASN:O	2.11	0.50
1:h:689:ASN:HB3	1:h:697:GLN:NE2	2.26	0.50
1:i:255:THR:HG23	1:i:374:ASN:O	2.11	0.50
1:k:689:ASN:HB3	1:k:697:GLN:NE2	2.26	0.50
1:m:416:MET:HG2	1:m:714:THR:CG2	2.41	0.50
1:x:593:GLN:NE2	1:y:610:THR:HA	2.26	0.50
1:y:689:ASN:HB3	1:y:697:GLN:NE2	2.26	0.50
1:z:255:THR:HG23	1:z:374:ASN:O	2.11	0.50
1:2:255:THR:HG23	1:2:374:ASN:O	2.11	0.50
1:2:416:MET:HG2	1:2:714:THR:CG2	2.41	0.50
1:F:255:THR:HG23	1:F:374:ASN:O	2.11	0.50
1:J:255:THR:HG23	1:J:374:ASN:O	2.11	0.50
1:K:678:LYS:HD3	1:a:391:PHE:CE1	2.46	0.50
1:L:255:THR:HG23	1:L:374:ASN:O	2.11	0.50
1:M:227:ASP:OD1	1:M:228[B]:ARG:HD3	2.11	0.50
1:M:329:GLN:HE21	1:M:635:LYS:HE2	1.75	0.50
1:S:329:GLN:HE21	1:S:635:LYS:HE2	1.75	0.50
1:T:416:MET:HG2	1:T:714:THR:CG2	2.41	0.50
1:V:381:PRO:HB2	1:X:684:ILE:HD11	1.93	0.50
1:Z:416:MET:HG2	1:Z:714:THR:CG2	2.41	0.50
1:c:686:TYR:CE1	1:c:710[B]:ARG:NH2	2.79	0.50
1:f:686:TYR:CE1	1:f:710[B]:ARG:NH2	2.79	0.50
1:g:255:THR:HG23	1:g:374:ASN:O	2.11	0.50
1:h:255:THR:HG23	1:h:374:ASN:O	2.11	0.50
1:k:416:MET:HG2	1:k:714:THR:CG2	2.41	0.50
1:q:416:MET:HG2	1:q:714:THR:CG2	2.41	0.50
1:r:329:GLN:HE21	1:r:635:LYS:HE2	1.75	0.50
1:u:450:LYS:NZ	1:v:347:GLU:OE2	2.28	0.50
1:v:416:MET:HG2	1:v:714:THR:CG2	2.41	0.50
1:x:416:MET:HG2	1:x:714:THR:CG2	2.41	0.50
1:y:255:THR:HG23	1:y:374:ASN:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:686:TYR:CE1	1:y:710[A]:ARG:NH2	2.79	0.50
1:2:689:ASN:HB3	1:2:697:GLN:NE2	2.26	0.50
1:6:255:THR:HG23	1:6:374:ASN:O	2.11	0.50
1:8:416:MET:HG2	1:8:714:THR:CG2	2.41	0.50
1:D:416:MET:HG2	1:D:714:THR:CG2	2.41	0.50
1:F:276:HIS:HD2	1:F:600:GLN:HA	1.74	0.50
1:F:689:ASN:HB3	1:F:697:GLN:NE2	2.26	0.50
1:H:416:MET:HG2	1:H:714:THR:CG2	2.41	0.50
1:J:441:THR:HG21	1:L:481:ASN:HB3	1.93	0.50
1:M:255:THR:HG23	1:M:374:ASN:O	2.11	0.50
1:P:689:ASN:HB3	1:P:697:GLN:NE2	2.26	0.50
1:c:347:GLU:OE2	1:p:450:LYS:NZ	2.28	0.50
1:f:255:THR:HG23	1:f:374:ASN:O	2.11	0.50
1:n:329:GLN:HE21	1:n:635:LYS:HE2	1.75	0.50
1:p:255:THR:HG23	1:p:374:ASN:O	2.11	0.50
1:p:684:ILE:CG2	1:s:690[B]:PHE:CZ	2.95	0.50
1:y:276:HIS:HD2	1:y:600:GLN:HA	1.75	0.50
1:1:678:LYS:HD3	1:2:391:PHE:CE1	2.46	0.50
1:C:255:THR:HG23	1:C:374:ASN:O	2.11	0.50
1:F:234:THR:OG1	1:F:664:MET:O	2.26	0.50
1:F:329:GLN:HE21	1:F:635:LYS:HE2	1.75	0.50
1:G:689:ASN:HB3	1:G:697:GLN:NE2	2.26	0.50
1:Q:416:MET:HG2	1:Q:714:THR:CG2	2.41	0.50
1:S:450:LYS:NZ	1:U:347:GLU:OE2	2.28	0.50
1:V:255:THR:HG23	1:V:374:ASN:O	2.11	0.50
1:a:416:MET:HG2	1:a:714:THR:CG2	2.41	0.50
1:d:329:GLN:HE21	1:d:635:LYS:HE2	1.75	0.50
1:f:441:THR:HG21	1:h:481:ASN:HB3	1.94	0.50
1:q:329:GLN:HE21	1:q:635:LYS:HE2	1.75	0.50
1:t:391:PHE:CE1	1:v:678:LYS:HD3	2.46	0.50
1:t:689:ASN:HB3	1:t:697:GLN:NE2	2.26	0.50
1:3:416:MET:HG2	1:3:714:THR:CG2	2.41	0.50
1:5:416:MET:HG2	1:5:714:THR:CG2	2.41	0.50
1:T:689:ASN:HB3	1:T:697:GLN:NE2	2.26	0.50
1:a:234:THR:OG1	1:a:664:MET:O	2.26	0.50
1:b:255:THR:HG23	1:b:374:ASN:O	2.11	0.50
1:c:689:ASN:HB3	1:c:697:GLN:NE2	2.26	0.50
1:d:689:ASN:HB3	1:d:697:GLN:NE2	2.26	0.50
1:e:689:ASN:HB3	1:e:697:GLN:NE2	2.26	0.50
1:j:689:ASN:HB3	1:j:697:GLN:NE2	2.26	0.50
1:m:689:ASN:HB3	1:m:697:GLN:NE2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:689:ASN:HB3	1:n:697:GLN:NE2	2.26	0.50
1:1:255:THR:HG23	1:1:374:ASN:O	2.11	0.50
1:6:686:TYR:CD1	1:6:710[B]:ARG:NH2	2.80	0.50
1:B:255:THR:HG23	1:B:374:ASN:O	2.11	0.50
1:I:689:ASN:HB3	1:I:697:GLN:NE2	2.26	0.50
1:J:329:GLN:HE21	1:J:635:LYS:HE2	1.75	0.50
1:N:689:ASN:HB3	1:N:697:GLN:NE2	2.26	0.50
1:T:225:MET:HE3	1:T:228[A]:ARG:HB2	1.94	0.50
1:V:441:THR:HG21	1:e:481:ASN:HB3	1.94	0.50
1:g:689:ASN:HB3	1:g:697:GLN:NE2	2.26	0.50
1:i:689:ASN:HB3	1:i:697:GLN:NE2	2.26	0.50
1:t:593:GLN:NE2	1:u:610:THR:HA	2.26	0.50
1:u:689:ASN:HB3	1:u:697:GLN:NE2	2.26	0.50
1:5:689:ASN:HB3	1:5:697:GLN:NE2	2.26	0.50
1:A:416:MET:HG2	1:A:714:THR:CG2	2.41	0.50
1:C:441:THR:HG21	1:b:481:ASN:HB3	1.94	0.50
1:L:689:ASN:HB3	1:L:697:GLN:NE2	2.26	0.50
1:V:536:ALA:O	1:X:445:ASN:HB2	2.12	0.50
1:V:686:TYR:HE1	1:V:710[B]:ARG:NH2	2.10	0.50
1:d:683:GLU:OE1	1:d:717:LEU:HG	2.12	0.50
1:n:683:GLU:OE1	1:n:717:LEU:HG	2.12	0.50
1:q:678:LYS:HD3	1:r:391:PHE:CE1	2.46	0.50
1:u:686:TYR:CE1	1:u:710[B]:ARG:NH2	2.80	0.50
1:w:276:HIS:HD2	1:w:600:GLN:HA	1.75	0.50
1:x:678:LYS:HD3	1:y:391:PHE:CE1	2.47	0.50
1:y:234:THR:OG1	1:y:664:MET:O	2.26	0.50
1:z:689:ASN:HB3	1:z:697:GLN:NE2	2.26	0.50
1:2:329:GLN:HE21	1:2:635:LYS:HE2	1.75	0.50
1:C:689:ASN:HB3	1:C:697:GLN:NE2	2.26	0.50
1:D:381:PRO:HB2	1:P:684:ILE:HD11	1.94	0.50
1:H:234:THR:OG1	1:H:664:MET:O	2.26	0.50
1:K:391:PHE:CE1	1:8:678:LYS:HD3	2.47	0.50
1:K:683:GLU:OE1	1:K:717:LEU:HG	2.12	0.50
1:R:329:GLN:HE21	1:R:635:LYS:HE2	1.75	0.50
1:Y:255:THR:HG23	1:Y:374:ASN:O	2.11	0.50
1:d:416:MET:HG2	1:d:714:THR:CG2	2.41	0.50
1:l:234:THR:OG1	1:l:664:MET:O	2.26	0.50
1:n:416:MET:HG2	1:n:714:THR:CG2	2.41	0.50
1:4:683:GLU:OE1	1:4:717:LEU:HG	2.12	0.50
1:B:381:PRO:HB2	1:L:684:ILE:HD11	1.94	0.50
1:C:536:ALA:O	1:M:445:ASN:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:441:THR:HG21	1:N:481:ASN:HB3	1.94	0.50
1:E:276:HIS:HD2	1:E:600:GLN:HA	1.74	0.50
1:H:689:ASN:HB3	1:H:697:GLN:NE2	2.26	0.50
1:J:683:GLU:OE1	1:J:717:LEU:HG	2.12	0.50
1:K:689:ASN:HB3	1:K:697:GLN:NE2	2.26	0.50
1:O:234:THR:OG1	1:O:664:MET:O	2.26	0.50
1:n:255:THR:HG23	1:n:374:ASN:O	2.11	0.50
1:s:255:THR:HG23	1:s:374:ASN:O	2.11	0.50
1:4:689:ASN:HB3	1:4:697:GLN:NE2	2.26	0.50
1:6:441:THR:HG21	1:7:481:ASN:HB3	1.92	0.50
1:7:255:THR:HG23	1:7:374:ASN:O	2.11	0.50
1:8:255:THR:HG23	1:8:374:ASN:O	2.11	0.50
1:B:391:PHE:CE1	1:L:678:LYS:HD3	2.47	0.49
1:I:683:GLU:OE1	1:I:717:LEU:HG	2.12	0.49
1:U:255:THR:HG23	1:U:374:ASN:O	2.11	0.49
1:Z:255:THR:HG23	1:Z:374:ASN:O	2.11	0.49
1:d:255:THR:HG23	1:d:374:ASN:O	2.11	0.49
1:f:678:LYS:HD3	1:h:391:PHE:CE1	2.47	0.49
1:f:689:ASN:HB3	1:f:697:GLN:NE2	2.26	0.49
1:j:255:THR:HG23	1:j:374:ASN:O	2.11	0.49
1:j:416:MET:HG2	1:j:714:THR:CG2	2.41	0.49
1:k:686:TYR:CD1	1:k:710[B]:ARG:NH2	2.80	0.49
1:m:683:GLU:OE1	1:m:717:LEU:HG	2.12	0.49
1:s:234:THR:OG1	1:s:664:MET:O	2.26	0.49
1:y:329:GLN:HE21	1:y:635:LYS:HE2	1.75	0.49
1:2:683:GLU:OE1	1:2:717:LEU:HG	2.12	0.49
1:7:329:GLN:HE21	1:7:635:LYS:HE2	1.75	0.49
1:H:684:ILE:HD11	1:W:381:PRO:HB2	1.94	0.49
1:P:416:MET:HG2	1:P:714:THR:CG2	2.41	0.49
1:S:683:GLU:OE1	1:S:717:LEU:HG	2.12	0.49
1:T:683:GLU:OE1	1:T:717:LEU:HG	2.12	0.49
1:U:683:GLU:OE1	1:U:717:LEU:HG	2.12	0.49
1:X:689:ASN:HB3	1:X:697:GLN:NE2	2.26	0.49
1:a:683:GLU:OE1	1:a:717:LEU:HG	2.12	0.49
1:c:683:GLU:OE1	1:c:717:LEU:HG	2.12	0.49
1:l:683:GLU:OE1	1:l:717:LEU:HG	2.12	0.49
1:q:683:GLU:OE1	1:q:717:LEU:HG	2.12	0.49
1:t:347:GLU:OE2	1:v:450:LYS:NZ	2.28	0.49
1:u:683:GLU:OE1	1:u:717:LEU:HG	2.12	0.49
1:w:593:GLN:NE2	1:x:610:THR:HA	2.26	0.49
1:D:234:THR:OG1	1:D:664:MET:O	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:341:ILE:H	1:E:631:GLN:NE2	2.11	0.49
1:G:450:LYS:NZ	1:I:347:GLU:OE2	2.28	0.49
1:L:683:GLU:OE1	1:L:717:LEU:HG	2.12	0.49
1:M:234:THR:OG1	1:M:664:MET:O	2.26	0.49
1:M:341:ILE:H	1:M:631:GLN:NE2	2.11	0.49
1:O:683:GLU:OE1	1:O:717:LEU:HG	2.12	0.49
1:R:683:GLU:OE1	1:R:717:LEU:HG	2.12	0.49
1:T:255:THR:HG23	1:T:374:ASN:O	2.11	0.49
1:V:683:GLU:OE1	1:V:717:LEU:HG	2.12	0.49
1:Y:329:GLN:HE21	1:Y:635:LYS:HE2	1.75	0.49
1:Z:683:GLU:OE1	1:Z:717:LEU:HG	2.12	0.49
1:Z:689:ASN:HB3	1:Z:697:GLN:NE2	2.26	0.49
1:b:689:ASN:HB3	1:b:697:GLN:NE2	2.26	0.49
1:c:341:ILE:H	1:c:631:GLN:NE2	2.11	0.49
1:c:678:LYS:HD3	1:o:391:PHE:CE1	2.47	0.49
1:e:341:ILE:H	1:e:631:GLN:NE2	2.11	0.49
1:e:683:GLU:OE1	1:e:717:LEU:HG	2.12	0.49
1:f:683:GLU:OE1	1:f:717:LEU:HG	2.12	0.49
1:h:341:ILE:H	1:h:631:GLN:NE2	2.11	0.49
1:k:234:THR:OG1	1:k:664:MET:O	2.26	0.49
1:o:689:ASN:HB3	1:o:697:GLN:NE2	2.26	0.49
1:p:329:GLN:HE21	1:p:635:LYS:HE2	1.75	0.49
1:p:689:ASN:HB3	1:p:697:GLN:NE2	2.26	0.49
1:q:684:ILE:CG2	1:x:690[B]:PHE:CZ	2.95	0.49
1:s:683:GLU:OE1	1:s:717:LEU:HG	2.12	0.49
1:w:341:ILE:H	1:w:631:GLN:NE2	2.11	0.49
1:x:689:ASN:HB3	1:x:697:GLN:NE2	2.26	0.49
1:1:683:GLU:OE1	1:1:717:LEU:HG	2.12	0.49
1:3:683:GLU:OE1	1:3:717:LEU:HG	2.12	0.49
1:4:341:ILE:H	1:4:631:GLN:NE2	2.11	0.49
1:8:683:GLU:OE1	1:8:717:LEU:HG	2.12	0.49
1:8:689:ASN:HB3	1:8:697:GLN:NE2	2.26	0.49
1:B:683:GLU:OE1	1:B:717:LEU:HG	2.12	0.49
1:D:341:ILE:H	1:D:631:GLN:NE2	2.11	0.49
1:D:683:GLU:OE1	1:D:717:LEU:HG	2.12	0.49
1:K:341:ILE:H	1:K:631:GLN:NE2	2.11	0.49
1:P:255:THR:HG23	1:P:374:ASN:O	2.11	0.49
1:V:329:GLN:HE21	1:V:635:LYS:HE2	1.75	0.49
1:V:689:ASN:HB3	1:V:697:GLN:NE2	2.26	0.49
1:b:683:GLU:OE1	1:b:717:LEU:HG	2.12	0.49
1:f:687:THR:O	1:f:710[A]:ARG:NH1	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:341:ILE:H	1:k:631:GLN:NE2	2.11	0.49
1:m:255:THR:HG23	1:m:374:ASN:O	2.11	0.49
1:p:683:GLU:OE1	1:p:717:LEU:HG	2.12	0.49
1:r:683:GLU:OE1	1:r:717:LEU:HG	2.12	0.49
1:x:686:TYR:CE1	1:x:710[B]:ARG:NH2	2.80	0.49
1:1:593:GLN:NE2	1:2:610:THR:HA	2.27	0.49
1:3:689:ASN:HB3	1:3:697:GLN:NE2	2.26	0.49
1:E:683:GLU:OE1	1:E:717:LEU:HG	2.12	0.49
1:K:225:MET:HE3	1:K:228[A]:ARG:HB2	1.94	0.49
1:N:341:ILE:H	1:N:631:GLN:NE2	2.11	0.49
1:N:683:GLU:OE1	1:N:717:LEU:HG	2.12	0.49
1:Q:689:ASN:HB3	1:Q:697:GLN:NE2	2.26	0.49
1:T:391:PHE:CE1	1:l:678:LYS:HD3	2.47	0.49
1:T:678:LYS:HD3	1:d:391:PHE:CE1	2.46	0.49
1:V:391:PHE:CE1	1:X:678:LYS:HD3	2.47	0.49
1:W:482:ASN:OD1	1:W:483:PRO:HD2	2.13	0.49
1:X:482:ASN:OD1	1:X:483:PRO:HD2	2.13	0.49
1:i:683:GLU:OE1	1:i:717:LEU:HG	2.12	0.49
1:k:683:GLU:OE1	1:k:717:LEU:HG	2.12	0.49
1:o:683:GLU:OE1	1:o:717:LEU:HG	2.12	0.49
1:x:683:GLU:OE1	1:x:717:LEU:HG	2.12	0.49
1:z:683:GLU:OE1	1:z:717:LEU:HG	2.12	0.49
1:6:482:ASN:OD1	1:6:483:PRO:HD2	2.13	0.49
1:A:347:GLU:OE2	1:I:450:LYS:NZ	2.29	0.49
1:C:341:ILE:H	1:C:631:GLN:NE2	2.11	0.49
1:N:482:ASN:OD1	1:N:483:PRO:HD2	2.13	0.49
1:O:441:THR:HG21	1:m:481:ASN:HB3	1.94	0.49
1:Q:341:ILE:H	1:Q:631:GLN:NE2	2.11	0.49
1:R:255:THR:HG23	1:R:374:ASN:O	2.11	0.49
1:T:341:ILE:H	1:T:631:GLN:NE2	2.11	0.49
1:U:482:ASN:OD1	1:U:483:PRO:HD2	2.13	0.49
1:W:683:GLU:OE1	1:W:717:LEU:HG	2.12	0.49
1:X:683:GLU:OE1	1:X:717:LEU:HG	2.12	0.49
1:Z:482:ASN:OD1	1:Z:483:PRO:HD2	2.13	0.49
1:a:689:ASN:HB3	1:a:697:GLN:NE2	2.26	0.49
1:g:341:ILE:H	1:g:631:GLN:NE2	2.11	0.49
1:i:341:ILE:H	1:i:631:GLN:NE2	2.11	0.49
1:i:482:ASN:OD1	1:i:483:PRO:HD2	2.13	0.49
1:m:341:ILE:H	1:m:631:GLN:NE2	2.11	0.49
1:o:482:ASN:OD1	1:o:483:PRO:HD2	2.13	0.49
1:q:441:THR:HG21	1:r:481:ASN:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:482:ASN:OD1	1:s:483:PRO:HD2	2.13	0.49
1:u:678:LYS:HD3	1:v:391:PHE:CE1	2.47	0.49
1:w:683:GLU:OE1	1:w:717:LEU:HG	2.12	0.49
1:w:686:TYR:CE1	1:w:710[A]:ARG:NH2	2.81	0.49
1:3:347:GLU:OE2	1:4:450:LYS:NZ	2.27	0.49
1:6:683:GLU:OE1	1:6:717:LEU:HG	2.12	0.49
1:8:482:ASN:OD1	1:8:483:PRO:HD2	2.13	0.49
1:A:482:ASN:OD1	1:A:483:PRO:HD2	2.13	0.49
1:C:234:THR:OG1	1:C:664:MET:O	2.26	0.49
1:C:391:PHE:CE1	1:M:678:LYS:HD3	2.47	0.49
1:F:381:PRO:HB2	1:Q:684:ILE:HD11	1.95	0.49
1:I:482:ASN:OD1	1:I:483:PRO:HD2	2.13	0.49
1:J:341:ILE:H	1:J:631:GLN:NE2	2.11	0.49
1:K:234:THR:OG1	1:K:664:MET:O	2.26	0.49
1:K:450:LYS:NZ	1:a:347:GLU:OE2	2.29	0.49
1:P:482:ASN:OD1	1:P:483:PRO:HD2	2.13	0.49
1:Q:234:THR:OG1	1:Q:664:MET:O	2.26	0.49
1:R:536:ALA:O	1:U:445:ASN:HB2	2.13	0.49
1:S:689:ASN:HB3	1:S:697:GLN:NE2	2.26	0.49
1:V:482:ASN:OD1	1:V:483:PRO:HD2	2.13	0.49
1:g:234:THR:OG1	1:g:664:MET:O	2.26	0.49
1:h:234:THR:OG1	1:h:664:MET:O	2.26	0.49
1:u:482:ASN:OD1	1:u:483:PRO:HD2	2.13	0.49
1:v:482:ASN:OD1	1:v:483:PRO:HD2	2.13	0.49
1:5:683:GLU:OE1	1:5:717:LEU:HG	2.12	0.49
1:E:482:ASN:OD1	1:E:483:PRO:HD2	2.13	0.49
1:F:683:GLU:OE1	1:F:717:LEU:HG	2.12	0.49
1:G:341:ILE:H	1:G:631:GLN:NE2	2.11	0.49
1:H:683:GLU:OE1	1:H:717:LEU:HG	2.12	0.49
1:L:341:ILE:H	1:L:631:GLN:NE2	2.11	0.49
1:P:341:ILE:H	1:P:631:GLN:NE2	2.11	0.49
1:R:381:PRO:HB2	1:U:684:ILE:HD11	1.94	0.49
1:U:341:ILE:H	1:U:631:GLN:NE2	2.11	0.49
1:Y:482:ASN:OD1	1:Y:483:PRO:HD2	2.13	0.49
1:Y:683:GLU:OE1	1:Y:717:LEU:HG	2.12	0.49
1:b:342:LEU:HD13	1:b:631:GLN:HG2	1.95	0.49
1:h:710[B]:ARG:NH1	1:h:711:THR:O	2.46	0.49
1:j:341:ILE:H	1:j:631:GLN:NE2	2.11	0.49
1:o:416:MET:HG2	1:o:714:THR:CG2	2.41	0.49
1:p:482:ASN:OD1	1:p:483:PRO:HD2	2.13	0.49
1:q:255:THR:HG23	1:q:374:ASN:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:341:ILE:H	1:t:631:GLN:NE2	2.11	0.49
1:t:686:TYR:CE1	1:t:710[A]:ARG:NH2	2.81	0.49
1:w:482:ASN:OD1	1:w:483:PRO:HD2	2.13	0.49
1:y:683:GLU:OE1	1:y:717:LEU:HG	2.12	0.49
1:z:341:ILE:H	1:z:631:GLN:NE2	2.11	0.49
1:1:341:ILE:H	1:1:631:GLN:NE2	2.11	0.49
1:2:225:MET:HE3	1:2:228[A]:ARG:HB2	1.94	0.49
1:2:341:ILE:H	1:2:631:GLN:NE2	2.11	0.49
1:7:482:ASN:OD1	1:7:483:PRO:HD2	2.13	0.49
1:7:683:GLU:OE1	1:7:717:LEU:HG	2.12	0.49
1:A:381:PRO:HB2	1:I:684:ILE:HD11	1.95	0.49
1:C:482:ASN:OD1	1:C:483:PRO:HD2	2.13	0.49
1:C:686:TYR:HE1	1:C:710[B]:ARG:NH2	2.10	0.49
1:G:683:GLU:OE1	1:G:717:LEU:HG	2.12	0.49
1:J:342:LEU:HD13	1:J:631:GLN:HG2	1.95	0.49
1:Q:683:GLU:OE1	1:Q:717:LEU:HG	2.12	0.49
1:X:416:MET:HG2	1:X:714:THR:CG2	2.41	0.49
1:Z:381:PRO:HB2	1:3:684:ILE:HD11	1.94	0.49
1:d:341:ILE:H	1:d:631:GLN:NE2	2.11	0.49
1:g:482:ASN:OD1	1:g:483:PRO:HD2	2.13	0.49
1:j:482:ASN:OD1	1:j:483:PRO:HD2	2.13	0.49
1:m:482:ASN:OD1	1:m:483:PRO:HD2	2.13	0.49
1:n:341:ILE:H	1:n:631:GLN:NE2	2.11	0.49
1:q:593:GLN:NE2	1:r:610:THR:HA	2.27	0.49
1:r:689:ASN:HB3	1:r:697:GLN:NE2	2.26	0.49
1:t:342:LEU:HD13	1:t:631:GLN:HG2	1.95	0.49
1:t:482:ASN:OD1	1:t:483:PRO:HD2	2.13	0.49
1:v:683:GLU:OE1	1:v:717:LEU:HG	2.12	0.49
1:x:234:THR:OG1	1:x:664:MET:O	2.26	0.49
1:x:341:ILE:H	1:x:631:GLN:NE2	2.11	0.49
1:x:482:ASN:OD1	1:x:483:PRO:HD2	2.13	0.49
1:2:342:LEU:HD13	1:2:631:GLN:HG2	1.95	0.49
1:6:342:LEU:HD13	1:6:631:GLN:HG2	1.95	0.49
1:B:341:ILE:H	1:B:631:GLN:NE2	2.11	0.49
1:F:482:ASN:OD1	1:F:483:PRO:HD2	2.13	0.49
1:G:342:LEU:HD13	1:G:631:GLN:HG2	1.95	0.49
1:G:482:ASN:OD1	1:G:483:PRO:HD2	2.13	0.49
1:M:683:GLU:OE1	1:M:717:LEU:HG	2.12	0.49
1:T:482:ASN:OD1	1:T:483:PRO:HD2	2.13	0.49
1:W:342:LEU:HD13	1:W:631:GLN:HG2	1.95	0.49
1:X:341:ILE:H	1:X:631:GLN:NE2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:481:ASN:HB3	1:e:441:THR:HG21	1.93	0.49
1:a:482:ASN:OD1	1:a:483:PRO:HD2	2.13	0.49
1:b:482:ASN:OD1	1:b:483:PRO:HD2	2.13	0.49
1:c:482:ASN:OD1	1:c:483:PRO:HD2	2.13	0.49
1:e:482:ASN:OD1	1:e:483:PRO:HD2	2.13	0.49
1:f:342:LEU:HD13	1:f:631:GLN:HG2	1.95	0.49
1:f:482:ASN:OD1	1:f:483:PRO:HD2	2.13	0.49
1:i:678:LYS:HD3	1:j:391:PHE:CE1	2.48	0.49
1:j:678:LYS:HD3	1:k:391:PHE:CE1	2.48	0.49
1:o:341:ILE:H	1:o:631:GLN:NE2	2.11	0.49
1:o:710[B]:ARG:NH1	1:o:711:THR:O	2.46	0.49
1:s:341:ILE:H	1:s:631:GLN:NE2	2.11	0.49
1:w:342:LEU:HD13	1:w:631:GLN:HG2	1.95	0.49
1:3:482:ASN:OD1	1:3:483:PRO:HD2	2.13	0.49
1:4:234:THR:OG1	1:4:664:MET:O	2.26	0.49
1:A:342:LEU:HD13	1:A:631:GLN:HG2	1.95	0.48
1:B:536:ALA:O	1:L:445:ASN:HB2	2.13	0.48
1:C:683:GLU:OE1	1:C:717:LEU:HG	2.12	0.48
1:O:381:PRO:HB2	1:n:684:ILE:HD11	1.95	0.48
1:T:684:ILE:HD11	1:d:381:PRO:HB2	1.94	0.48
1:g:683:GLU:OE1	1:g:717:LEU:HG	2.12	0.48
1:h:683:GLU:OE1	1:h:717:LEU:HG	2.12	0.48
1:j:593:GLN:NE2	1:k:610:THR:HA	2.27	0.48
1:j:683:GLU:OE1	1:j:717:LEU:HG	2.12	0.48
1:m:342:LEU:HD13	1:m:631:GLN:HG2	1.95	0.48
1:u:342:LEU:HD13	1:u:631:GLN:HG2	1.95	0.48
1:u:690[B]:PHE:CE1	1:1:684:ILE:HG23	2.48	0.48
1:y:482:ASN:OD1	1:y:483:PRO:HD2	2.13	0.48
1:y:686:TYR:HD1	1:y:710[B]:ARG:NH2	2.10	0.48
1:A:683:GLU:OE1	1:A:717:LEU:HG	2.12	0.48
1:E:342:LEU:HD13	1:E:631:GLN:HG2	1.95	0.48
1:F:341:ILE:H	1:F:631:GLN:NE2	2.11	0.48
1:I:342:LEU:HD13	1:I:631:GLN:HG2	1.95	0.48
1:J:482:ASN:OD1	1:J:483:PRO:HD2	2.13	0.48
1:L:342:LEU:HD13	1:L:631:GLN:HG2	1.95	0.48
1:Q:482:ASN:OD1	1:Q:483:PRO:HD2	2.13	0.48
1:T:342:LEU:HD13	1:T:631:GLN:HG2	1.95	0.48
1:V:341:ILE:H	1:V:631:GLN:NE2	2.11	0.48
1:c:420:ASN:HB3	1:c:720:THR:HA	1.96	0.48
1:c:441:THR:HG21	1:o:481:ASN:HB3	1.94	0.48
1:g:684:ILE:CG2	1:z:690[B]:PHE:CZ	2.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:341:ILE:H	1:p:631:GLN:NE2	2.11	0.48
1:q:341:ILE:H	1:q:631:GLN:NE2	2.11	0.48
1:s:342:LEU:HD13	1:s:631:GLN:HG2	1.95	0.48
1:t:683:GLU:OE1	1:t:717:LEU:HG	2.12	0.48
1:1:482:ASN:OD1	1:1:483:PRO:HD2	2.13	0.48
1:2:482:ASN:OD1	1:2:483:PRO:HD2	2.13	0.48
1:3:341:ILE:H	1:3:631:GLN:NE2	2.11	0.48
1:5:341:ILE:H	1:5:631:GLN:NE2	2.11	0.48
1:B:482:ASN:OD1	1:B:483:PRO:HD2	2.13	0.48
1:D:420:ASN:HB3	1:D:720:THR:HA	1.96	0.48
1:H:341:ILE:H	1:H:631:GLN:NE2	2.11	0.48
1:H:482:ASN:OD1	1:H:483:PRO:HD2	2.13	0.48
1:K:342:LEU:HD13	1:K:631:GLN:HG2	1.95	0.48
1:P:683:GLU:OE1	1:P:717:LEU:HG	2.12	0.48
1:R:341:ILE:H	1:R:631:GLN:NE2	2.11	0.48
1:R:391:PHE:CE1	1:U:678:LYS:HD3	2.47	0.48
1:U:342:LEU:HD13	1:U:631:GLN:HG2	1.95	0.48
1:a:341:ILE:H	1:a:631:GLN:NE2	2.11	0.48
1:a:450:LYS:NZ	1:8:347:GLU:OE2	2.28	0.48
1:e:420:ASN:HB3	1:e:720:THR:HA	1.96	0.48
1:m:450:LYS:NZ	1:n:347:GLU:OE2	2.27	0.48
1:q:684:ILE:HG23	1:x:690[B]:PHE:CE1	2.48	0.48
1:u:690[B]:PHE:CZ	1:1:684:ILE:CG2	2.95	0.48
1:v:342:LEU:HD13	1:v:631:GLN:HG2	1.95	0.48
1:y:341:ILE:H	1:y:631:GLN:NE2	2.11	0.48
1:z:342:LEU:HD13	1:z:631:GLN:HG2	1.95	0.48
1:z:482:ASN:OD1	1:z:483:PRO:HD2	2.13	0.48
1:K:482:ASN:OD1	1:K:483:PRO:HD2	2.13	0.48
1:K:684:ILE:HD11	1:a:381:PRO:HB2	1.94	0.48
1:L:234:THR:OG1	1:L:664:MET:O	2.26	0.48
1:R:482:ASN:OD1	1:R:483:PRO:HD2	2.13	0.48
1:k:420:ASN:HB3	1:k:720:THR:HA	1.96	0.48
1:r:342:LEU:HD13	1:r:631:GLN:HG2	1.95	0.48
1:z:420:ASN:HB3	1:z:720:THR:HA	1.96	0.48
1:3:481:ASN:HB3	1:4:441:THR:HG21	1.96	0.48
1:4:342:LEU:HD13	1:4:631:GLN:HG2	1.95	0.48
1:B:420:ASN:HB3	1:B:720:THR:HA	1.96	0.48
1:C:342:LEU:HD13	1:C:631:GLN:HG2	1.95	0.48
1:E:381:PRO:HB2	1:F:684:ILE:HD11	1.96	0.48
1:H:342:LEU:HD13	1:H:631:GLN:HG2	1.95	0.48
1:H:678:LYS:HD3	1:W:391:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:420:ASN:HB3	1:L:720:THR:HA	1.96	0.48
1:L:482:ASN:OD1	1:L:483:PRO:HD2	2.13	0.48
1:P:234:THR:OG1	1:P:664:MET:O	2.26	0.48
1:R:420:ASN:HB3	1:R:720:THR:HA	1.96	0.48
1:c:610:THR:HA	1:p:593:GLN:NE2	2.29	0.48
1:k:482:ASN:ND2	1:k:484:GLN:HE21	2.12	0.48
1:q:420:ASN:HB3	1:q:720:THR:HA	1.96	0.48
1:r:341:ILE:H	1:r:631:GLN:NE2	2.11	0.48
1:u:341:ILE:H	1:u:631:GLN:NE2	2.11	0.48
1:5:482:ASN:OD1	1:5:483:PRO:HD2	2.13	0.48
1:D:482:ASN:ND2	1:D:484:GLN:HE21	2.12	0.48
1:D:482:ASN:OD1	1:D:483:PRO:HD2	2.13	0.48
1:S:342:LEU:HD13	1:S:631:GLN:HG2	1.95	0.48
1:V:342:LEU:HD13	1:V:631:GLN:HG2	1.95	0.48
1:W:341:ILE:H	1:W:631:GLN:NE2	2.11	0.48
1:W:441:THR:HG21	1:Y:481:ASN:HB3	1.94	0.48
1:j:482:ASN:ND2	1:j:484:GLN:HE21	2.12	0.48
1:j:686:TYR:CE1	1:j:710[A]:ARG:NH2	2.81	0.48
1:q:482:ASN:OD1	1:q:483:PRO:HD2	2.13	0.48
1:1:420:ASN:HB3	1:1:720:THR:HA	1.96	0.48
1:4:482:ASN:OD1	1:4:483:PRO:HD2	2.13	0.48
1:C:347:GLU:OE2	1:M:450:LYS:NZ	2.29	0.48
1:H:347:GLU:OE2	1:Y:450:LYS:NZ	2.28	0.48
1:H:482:ASN:ND2	1:H:484:GLN:HE21	2.12	0.48
1:M:482:ASN:OD1	1:M:483:PRO:HD2	2.13	0.48
1:N:482:ASN:ND2	1:N:484:GLN:HE21	2.12	0.48
1:N:678:LYS:HD3	1:P:391:PHE:CE1	2.49	0.48
1:P:482:ASN:ND2	1:P:484:GLN:HE21	2.12	0.48
1:S:341:ILE:H	1:S:631:GLN:NE2	2.11	0.48
1:b:482:ASN:ND2	1:b:484:GLN:HE21	2.12	0.48
1:f:482:ASN:ND2	1:f:484:GLN:HE21	2.12	0.48
1:g:342:LEU:HD13	1:g:631:GLN:HG2	1.95	0.48
1:h:482:ASN:OD1	1:h:483:PRO:HD2	2.13	0.48
1:k:482:ASN:OD1	1:k:483:PRO:HD2	2.13	0.48
1:l:420:ASN:HB3	1:l:720:THR:HA	1.95	0.48
1:n:342:LEU:HD13	1:n:631:GLN:HG2	1.95	0.48
1:p:342:LEU:HD13	1:p:631:GLN:HG2	1.95	0.48
1:r:225:MET:HE3	1:r:228[A]:ARG:HB2	1.94	0.48
1:5:342:LEU:HD13	1:5:631:GLN:HG2	1.95	0.48
1:5:482:ASN:ND2	1:5:484:GLN:HE21	2.12	0.48
1:B:482:ASN:ND2	1:B:484:GLN:HE21	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:420:ASN:HB3	1:K:720:THR:HA	1.96	0.48
1:O:420:ASN:HB3	1:O:720:THR:HA	1.96	0.48
1:Q:342:LEU:HD13	1:Q:631:GLN:HG2	1.95	0.48
1:Q:482:ASN:ND2	1:Q:484:GLN:HE21	2.12	0.48
1:T:234:THR:OG1	1:T:664:MET:O	2.26	0.48
1:e:234:THR:OG1	1:e:664:MET:O	2.26	0.48
1:g:420:ASN:HB3	1:g:720:THR:HA	1.96	0.48
1:n:482:ASN:ND2	1:n:484:GLN:HE21	2.12	0.48
1:z:234:THR:OG1	1:z:664:MET:O	2.26	0.48
1:z:593:GLN:NE2	1:1:610:THR:HA	2.29	0.48
1:5:593:GLN:NE2	1:6:610:THR:HA	2.27	0.48
1:6:341:ILE:H	1:6:631:GLN:NE2	2.11	0.48
1:C:420:ASN:HB3	1:C:720:THR:HA	1.96	0.48
1:F:482:ASN:ND2	1:F:484:GLN:HE21	2.12	0.48
1:I:341:ILE:H	1:I:631:GLN:NE2	2.11	0.48
1:S:482:ASN:ND2	1:S:484:GLN:HE21	2.12	0.48
1:T:450:LYS:NZ	1:d:347:GLU:OE2	2.29	0.48
1:U:482:ASN:ND2	1:U:484:GLN:HE21	2.12	0.48
1:d:342:LEU:HD13	1:d:631:GLN:HG2	1.95	0.48
1:d:420:ASN:HB3	1:d:720:THR:HA	1.95	0.48
1:d:482:ASN:ND2	1:d:484:GLN:HE21	2.12	0.48
1:e:482:ASN:ND2	1:e:484:GLN:HE21	2.12	0.48
1:i:482:ASN:ND2	1:i:484:GLN:HE21	2.12	0.48
1:j:234:THR:OG1	1:j:664:MET:O	2.26	0.48
1:j:686:TYR:CD1	1:j:710[B]:ARG:NH2	2.82	0.48
1:v:420:ASN:HB3	1:v:720:THR:HA	1.96	0.48
1:v:686:TYR:HD1	1:v:710[B]:ARG:NH2	2.10	0.48
1:w:420:ASN:HB3	1:w:720:THR:HA	1.96	0.48
1:x:342:LEU:HD13	1:x:631:GLN:HG2	1.95	0.48
1:x:482:ASN:ND2	1:x:484:GLN:HE21	2.12	0.48
1:y:482:ASN:ND2	1:y:484:GLN:HE21	2.12	0.48
1:4:420:ASN:HB3	1:4:720:THR:HA	1.96	0.48
1:5:391:PHE:CE1	1:7:678:LYS:HD3	2.48	0.48
1:5:686:TYR:CD1	1:5:710[B]:ARG:NH2	2.82	0.48
1:7:420:ASN:HB3	1:7:720:THR:HA	1.96	0.48
1:A:450:LYS:NZ	1:G:347:GLU:OE2	2.29	0.48
1:B:342:LEU:HD13	1:B:631:GLN:HG2	1.95	0.48
1:C:482:ASN:ND2	1:C:484:GLN:HE21	2.12	0.48
1:H:420:ASN:HB3	1:H:720:THR:HA	1.96	0.48
1:O:482:ASN:ND2	1:O:484:GLN:HE21	2.12	0.48
1:R:482:ASN:ND2	1:R:484:GLN:HE21	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:341:ILE:H	1:Y:631:GLN:NE2	2.11	0.48
1:b:341:ILE:H	1:b:631:GLN:NE2	2.11	0.48
1:c:482:ASN:ND2	1:c:484:GLN:HE21	2.12	0.48
1:n:482:ASN:OD1	1:n:483:PRO:HD2	2.13	0.48
1:r:482:ASN:ND2	1:r:484:GLN:HE21	2.12	0.48
1:s:482:ASN:ND2	1:s:484:GLN:HE21	2.12	0.48
1:z:686:TYR:CE1	1:z:710[A]:ARG:NH2	2.82	0.48
1:1:342:LEU:HD13	1:1:631:GLN:HG2	1.95	0.48
1:1:482:ASN:ND2	1:1:484:GLN:HE21	2.12	0.48
1:6:593:GLN:NE2	1:7:610:THR:HA	2.29	0.48
1:8:341:ILE:H	1:8:631:GLN:NE2	2.11	0.48
1:A:420:ASN:HB3	1:A:720:THR:HA	1.96	0.47
1:A:482:ASN:ND2	1:A:484:GLN:HE21	2.12	0.47
1:E:420:ASN:HB3	1:E:720:THR:HA	1.96	0.47
1:T:482:ASN:ND2	1:T:484:GLN:HE21	2.12	0.47
1:Y:420:ASN:HB3	1:Y:720:THR:HA	1.96	0.47
1:Z:341:ILE:H	1:Z:631:GLN:NE2	2.11	0.47
1:f:610:THR:HA	1:g:593:GLN:NE2	2.29	0.47
1:g:482:ASN:ND2	1:g:484:GLN:HE21	2.12	0.47
1:h:342:LEU:HD13	1:h:631:GLN:HG2	1.95	0.47
1:i:593:GLN:NE2	1:j:610:THR:HA	2.29	0.47
1:i:610:THR:HA	1:k:593:GLN:NE2	2.29	0.47
1:l:482:ASN:ND2	1:l:484:GLN:HE21	2.12	0.47
1:m:482:ASN:ND2	1:m:484:GLN:HE21	2.12	0.47
1:n:420:ASN:HB3	1:n:720:THR:HA	1.96	0.47
1:q:482:ASN:ND2	1:q:484:GLN:HE21	2.12	0.47
1:5:420:ASN:HB3	1:5:720:THR:HA	1.96	0.47
1:5:610:THR:HA	1:7:593:GLN:NE2	2.29	0.47
1:D:342:LEU:HD13	1:D:631:GLN:HG2	1.95	0.47
1:L:482:ASN:ND2	1:L:484:GLN:HE21	2.12	0.47
1:M:391:PHE:CE1	1:b:678:LYS:HD3	2.50	0.47
1:a:482:ASN:ND2	1:a:484:GLN:HE21	2.12	0.47
1:c:234:THR:OG1	1:c:664:MET:O	2.26	0.47
1:d:482:ASN:OD1	1:d:483:PRO:HD2	2.13	0.47
1:f:341:ILE:H	1:f:631:GLN:NE2	2.11	0.47
1:k:342:LEU:HD13	1:k:631:GLN:HG2	1.95	0.47
1:l:482:ASN:OD1	1:l:483:PRO:HD2	2.13	0.47
1:n:234:THR:OG1	1:n:664:MET:O	2.26	0.47
1:t:441:THR:HG21	1:u:481:ASN:HB3	1.96	0.47
1:v:482:ASN:ND2	1:v:484:GLN:HE21	2.12	0.47
1:x:420:ASN:HB3	1:x:720:THR:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:678:LYS:HD3	1:1:391:PHE:CE1	2.49	0.47
1:1:441:THR:HG21	1:2:481:ASN:HB3	1.95	0.47
1:7:341:ILE:H	1:7:631:GLN:NE2	2.11	0.47
1:8:482:ASN:ND2	1:8:484:GLN:HE21	2.12	0.47
1:C:450:LYS:NZ	1:b:347:GLU:OE2	2.28	0.47
1:D:391:PHE:CE1	1:P:678:LYS:HD3	2.49	0.47
1:F:416:MET:HG2	1:F:714:THR:HG22	1.97	0.47
1:F:536:ALA:O	1:Q:445:ASN:HB2	2.14	0.47
1:H:391:PHE:CE1	1:Y:678:LYS:HD3	2.49	0.47
1:M:342:LEU:HD13	1:M:631:GLN:HG2	1.95	0.47
1:O:482:ASN:OD1	1:O:483:PRO:HD2	2.13	0.47
1:Q:420:ASN:HB3	1:Q:720:THR:HA	1.96	0.47
1:X:420:ASN:HB3	1:X:720:THR:HA	1.96	0.47
1:Y:482:ASN:ND2	1:Y:484:GLN:HE21	2.12	0.47
1:Z:482:ASN:ND2	1:Z:484:GLN:HE21	2.12	0.47
1:Z:494:TRP:CD1	1:Z:503:TYR:HD1	2.33	0.47
1:b:420:ASN:HB3	1:b:720:THR:HA	1.96	0.47
1:c:416:MET:HG2	1:c:714:THR:HG22	1.97	0.47
1:f:420:ASN:HB3	1:f:720:THR:HA	1.96	0.47
1:i:342:LEU:HD13	1:i:631:GLN:HG2	1.95	0.47
1:l:342:LEU:HD13	1:l:631:GLN:HG2	1.95	0.47
1:m:234:THR:OG1	1:m:664:MET:O	2.26	0.47
1:w:441:THR:HG21	1:x:481:ASN:HB3	1.96	0.47
1:y:416:MET:HG2	1:y:714:THR:HG22	1.97	0.47
1:z:482:ASN:ND2	1:z:484:GLN:HE21	2.12	0.47
1:3:342:LEU:HD13	1:3:631:GLN:HG2	1.95	0.47
1:3:482:ASN:ND2	1:3:484:GLN:HE21	2.12	0.47
1:5:686:TYR:CE1	1:5:710[A]:ARG:NH2	2.81	0.47
1:7:342:LEU:HD13	1:7:631:GLN:HG2	1.95	0.47
1:7:494:TRP:CD1	1:7:503:TYR:HD1	2.33	0.47
1:A:341:ILE:H	1:A:631:GLN:NE2	2.11	0.47
1:D:536:ALA:O	1:P:445:ASN:HB2	2.14	0.47
1:H:445:ASN:HB2	1:W:536:ALA:O	2.14	0.47
1:I:494:TRP:CD1	1:I:503:TYR:HD1	2.33	0.47
1:J:482:ASN:ND2	1:J:484:GLN:HE21	2.12	0.47
1:O:341:ILE:H	1:O:631:GLN:NE2	2.11	0.47
1:O:342:LEU:HD13	1:O:631:GLN:HG2	1.95	0.47
1:O:416:MET:HG2	1:O:714:THR:HG22	1.97	0.47
1:S:494:TRP:CD1	1:S:503:TYR:HD1	2.33	0.47
1:V:482:ASN:ND2	1:V:484:GLN:HE21	2.12	0.47
1:W:420:ASN:HB3	1:W:720:THR:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:342:LEU:HD13	1:Y:631:GLN:HG2	1.95	0.47
1:a:342:LEU:HD13	1:a:631:GLN:HG2	1.95	0.47
1:c:342:LEU:HD13	1:c:631:GLN:HG2	1.95	0.47
1:c:494:TRP:CD1	1:c:503:TYR:HD1	2.33	0.47
1:d:234:THR:OG1	1:d:664:MET:O	2.26	0.47
1:e:342:LEU:HD13	1:e:631:GLN:HG2	1.95	0.47
1:e:416:MET:HG2	1:e:714:THR:HG22	1.97	0.47
1:l:416:MET:HG2	1:l:714:THR:HG22	1.97	0.47
1:o:494:TRP:CD1	1:o:503:TYR:HD1	2.33	0.47
1:o:593:GLN:NE2	1:p:610:THR:HA	2.29	0.47
1:v:341:ILE:H	1:v:631:GLN:NE2	2.11	0.47
1:2:482:ASN:ND2	1:2:484:GLN:HE21	2.12	0.47
1:5:678:LYS:HD3	1:6:391:PHE:CE1	2.48	0.47
1:6:420:ASN:HB3	1:6:720:THR:HA	1.96	0.47
1:7:416:MET:HG2	1:7:714:THR:HG22	1.97	0.47
1:8:494:TRP:CD1	1:8:503:TYR:HD1	2.33	0.47
1:C:494:TRP:CD1	1:C:503:TYR:HD1	2.33	0.47
1:F:420:ASN:HB3	1:F:720:THR:HA	1.96	0.47
1:M:420:ASN:HB3	1:M:720:THR:HA	1.96	0.47
1:N:342:LEU:HD13	1:N:631:GLN:HG2	1.95	0.47
1:P:342:LEU:HD13	1:P:631:GLN:HG2	1.95	0.47
1:Q:416:MET:HG2	1:Q:714:THR:HG22	1.97	0.47
1:T:494:TRP:CD1	1:T:503:TYR:HD1	2.33	0.47
1:V:686:TYR:CE1	1:V:710[B]:ARG:NH2	2.82	0.47
1:X:494:TRP:CD1	1:X:503:TYR:HD1	2.33	0.47
1:Y:494:TRP:CD1	1:Y:503:TYR:HD1	2.33	0.47
1:Z:482:ASN:ND2	1:3:575:ALA:HA	2.30	0.47
1:e:494:TRP:CD1	1:e:503:TYR:HD1	2.33	0.47
1:g:494:TRP:CD1	1:g:503:TYR:HD1	2.33	0.47
1:j:342:LEU:HD13	1:j:631:GLN:HG2	1.95	0.47
1:j:420:ASN:HB3	1:j:720:THR:HA	1.96	0.47
1:l:341:ILE:H	1:l:631:GLN:NE2	2.11	0.47
1:m:416:MET:HG2	1:m:714:THR:HG22	1.97	0.47
1:o:420:ASN:HB3	1:o:720:THR:HA	1.96	0.47
1:p:482:ASN:ND2	1:p:484:GLN:HE21	2.12	0.47
1:u:420:ASN:HB3	1:u:720:THR:HA	1.96	0.47
1:u:482:ASN:ND2	1:u:484:GLN:HE21	2.12	0.47
1:u:494:TRP:CD1	1:u:503:TYR:HD1	2.33	0.47
1:x:416:MET:HG2	1:x:714:THR:HG22	1.97	0.47
1:y:420:ASN:HB3	1:y:720:THR:HA	1.96	0.47
1:5:481:ASN:HB3	1:7:441:THR:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:686:TYR:CE1	1:C:710[B]:ARG:NH2	2.82	0.47
1:D:416:MET:HG2	1:D:714:THR:HG22	1.97	0.47
1:H:536:ALA:O	1:Y:445:ASN:HB2	2.15	0.47
1:I:482:ASN:ND2	1:I:484:GLN:HE21	2.12	0.47
1:K:482:ASN:ND2	1:K:484:GLN:HE21	2.12	0.47
1:L:416:MET:HG2	1:L:714:THR:HG22	1.97	0.47
1:P:420:ASN:HB3	1:P:720:THR:HA	1.96	0.47
1:T:416:MET:HG2	1:T:714:THR:HG22	1.97	0.47
1:h:420:ASN:HB3	1:h:720:THR:HA	1.96	0.47
1:i:416:MET:HG2	1:i:714:THR:HG22	1.97	0.47
1:k:416:MET:HG2	1:k:714:THR:HG22	1.97	0.47
1:k:494:TRP:CD1	1:k:503:TYR:HD1	2.33	0.47
1:o:342:LEU:HD13	1:o:631:GLN:HG2	1.95	0.47
1:p:686:TYR:HD1	1:p:710[B]:ARG:NH2	2.12	0.47
1:r:494:TRP:CD1	1:r:503:TYR:HD1	2.33	0.47
1:v:494:TRP:CD1	1:v:503:TYR:HD1	2.33	0.47
1:z:416:MET:HG2	1:z:714:THR:HG22	1.97	0.47
1:z:610:THR:HA	1:2:593:GLN:NE2	2.30	0.47
1:6:482:ASN:ND2	1:6:484:GLN:HE21	2.12	0.47
1:7:482:ASN:ND2	1:7:484:GLN:HE21	2.12	0.47
1:8:420:ASN:HB3	1:8:720:THR:HA	1.95	0.47
1:A:494:TRP:CD1	1:A:503:TYR:HD1	2.33	0.47
1:D:494:TRP:CD1	1:D:503:TYR:HD1	2.33	0.47
1:F:423:LEU:HD23	1:F:721:LEU:HD21	1.97	0.47
1:F:494:TRP:CD1	1:F:503:TYR:HD1	2.33	0.47
1:G:423:LEU:HD23	1:G:721:LEU:HD21	1.97	0.47
1:H:416:MET:HG2	1:H:714:THR:HG22	1.97	0.47
1:I:420:ASN:HB3	1:I:720:THR:HA	1.96	0.47
1:J:416:MET:HG2	1:J:714:THR:HG22	1.97	0.47
1:J:420:ASN:HB3	1:J:720:THR:HA	1.96	0.47
1:M:423:LEU:HD23	1:M:721:LEU:HD21	1.97	0.47
1:N:420:ASN:HB3	1:N:720:THR:HA	1.96	0.47
1:N:445:ASN:HB2	1:P:536:ALA:O	2.15	0.47
1:P:544:LEU:HB3	1:P:711:THR:HG23	1.97	0.47
1:S:416:MET:HG2	1:S:714:THR:HG22	1.97	0.47
1:S:420:ASN:HB3	1:S:720:THR:HA	1.96	0.47
1:S:482:ASN:OD1	1:S:483:PRO:HD2	2.13	0.47
1:U:420:ASN:HB3	1:U:720:THR:HA	1.96	0.47
1:V:420:ASN:HB3	1:V:720:THR:HA	1.96	0.47
1:W:234:THR:OG1	1:W:664:MET:O	2.26	0.47
1:W:482:ASN:ND2	1:W:484:GLN:HE21	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:342:LEU:HD13	1:X:631:GLN:HG2	1.95	0.47
1:X:391:PHE:CE1	1:e:678:LYS:HD3	2.50	0.47
1:X:482:ASN:ND2	1:X:484:GLN:HE21	2.12	0.47
1:Y:416:MET:HG2	1:Y:714:THR:HG22	1.97	0.47
1:Z:420:ASN:HB3	1:Z:720:THR:HA	1.96	0.47
1:a:420:ASN:HB3	1:a:720:THR:HA	1.96	0.47
1:d:494:TRP:CD1	1:d:503:TYR:HD1	2.33	0.47
1:h:423:LEU:HD23	1:h:721:LEU:HD21	1.97	0.47
1:h:482:ASN:ND2	1:h:484:GLN:HE21	2.12	0.47
1:i:420:ASN:HB3	1:i:720:THR:HA	1.96	0.47
1:j:544:LEU:HB3	1:j:711:THR:HG23	1.97	0.47
1:m:494:TRP:CD1	1:m:503:TYR:HD1	2.33	0.47
1:n:494:TRP:CD1	1:n:503:TYR:HD1	2.33	0.47
1:o:482:ASN:ND2	1:o:484:GLN:HE21	2.12	0.47
1:o:544:LEU:HB3	1:o:711:THR:HG23	1.97	0.47
1:p:420:ASN:HB3	1:p:720:THR:HA	1.96	0.47
1:q:342:LEU:HD13	1:q:631:GLN:HG2	1.95	0.47
1:q:391:PHE:CE1	1:s:678:LYS:HD3	2.49	0.47
1:q:610:THR:HA	1:s:593:GLN:NE2	2.29	0.47
1:r:420:ASN:HB3	1:r:720:THR:HA	1.96	0.47
1:s:686:TYR:CE1	1:s:710[A]:ARG:NH2	2.82	0.47
1:t:423:LEU:HD23	1:t:721:LEU:HD21	1.97	0.47
1:u:544:LEU:HB3	1:u:711:THR:HG23	1.97	0.47
1:w:609:GLU:O	1:y:419:HIS:HE1	1.98	0.47
1:y:423:LEU:HD23	1:y:721:LEU:HD21	1.97	0.47
1:y:494:TRP:CD1	1:y:503:TYR:HD1	2.33	0.47
1:2:416:MET:HG2	1:2:714:THR:HG22	1.97	0.47
1:2:420:ASN:HB3	1:2:720:THR:HA	1.96	0.47
1:3:391:PHE:CE1	1:4:678:LYS:HD3	2.50	0.47
1:3:420:ASN:HB3	1:3:720:THR:HA	1.96	0.47
1:3:494:TRP:CD1	1:3:503:TYR:HD1	2.33	0.47
1:4:482:ASN:ND2	1:4:484:GLN:HE21	2.12	0.47
1:6:234:THR:OG1	1:6:664:MET:O	2.26	0.47
1:A:684:ILE:HD11	1:G:381:PRO:HB2	1.96	0.47
1:B:416:MET:HG2	1:B:714:THR:HG22	1.97	0.47
1:E:482:ASN:ND2	1:E:484:GLN:HE21	2.12	0.47
1:E:494:TRP:CD1	1:E:503:TYR:HD1	2.33	0.47
1:F:342:LEU:HD13	1:F:631:GLN:HG2	1.95	0.47
1:I:544:LEU:HB3	1:I:711:THR:HG23	1.97	0.47
1:L:494:TRP:CD1	1:L:503:TYR:HD1	2.33	0.47
1:M:482:ASN:ND2	1:M:484:GLN:HE21	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:416:MET:HG2	1:N:714:THR:HG22	1.97	0.47
1:P:416:MET:HG2	1:P:714:THR:HG22	1.97	0.47
1:Q:494:TRP:CD1	1:Q:503:TYR:HD1	2.33	0.47
1:R:342:LEU:HD13	1:R:631:GLN:HG2	1.95	0.47
1:R:684:ILE:HD11	1:S:381:PRO:HB2	1.97	0.47
1:U:544:LEU:HB3	1:U:711:THR:HG23	1.97	0.47
1:X:544:LEU:HB3	1:X:711:THR:HG23	1.97	0.47
1:Z:342:LEU:HD13	1:Z:631:GLN:HG2	1.95	0.47
1:a:494:TRP:CD1	1:a:503:TYR:HD1	2.33	0.47
1:i:544:LEU:HB3	1:i:711:THR:HG23	1.97	0.47
1:j:416:MET:HG2	1:j:714:THR:HG22	1.97	0.47
1:m:423:LEU:HD23	1:m:721:LEU:HD21	1.97	0.47
1:q:450:LYS:NZ	1:r:347:GLU:OE2	2.28	0.47
1:r:416:MET:HG2	1:r:714:THR:HG22	1.97	0.47
1:r:482:ASN:OD1	1:r:483:PRO:HD2	2.13	0.47
1:s:420:ASN:HB3	1:s:720:THR:HA	1.96	0.47
1:s:544:LEU:HB3	1:s:711:THR:HG23	1.97	0.47
1:v:423:LEU:HD23	1:v:721:LEU:HD21	1.97	0.47
1:w:482:ASN:ND2	1:w:484:GLN:HE21	2.12	0.47
1:w:494:TRP:CD1	1:w:503:TYR:HD1	2.33	0.47
1:z:494:TRP:CD1	1:z:503:TYR:HD1	2.33	0.47
1:1:416:MET:HG2	1:1:714:THR:HG22	1.97	0.47
1:5:416:MET:HG2	1:5:714:THR:HG22	1.97	0.47
1:A:423:LEU:HD23	1:A:721:LEU:HD21	1.97	0.47
1:A:536:ALA:O	1:I:445:ASN:HB2	2.14	0.47
1:B:423:LEU:HD23	1:B:721:LEU:HD21	1.97	0.47
1:G:416:MET:HG2	1:G:714:THR:HG22	1.97	0.47
1:G:494:TRP:CD1	1:G:503:TYR:HD1	2.33	0.47
1:I:416:MET:HG2	1:I:714:THR:HG22	1.97	0.47
1:K:544:LEU:HB3	1:K:711:THR:HG23	1.97	0.47
1:N:423:LEU:HD23	1:N:721:LEU:HD21	1.97	0.47
1:N:544:LEU:HB3	1:N:711:THR:HG23	1.97	0.47
1:T:423:LEU:HD23	1:T:721:LEU:HD21	1.97	0.47
1:V:416:MET:HG2	1:V:714:THR:HG22	1.97	0.47
1:X:482:ASN:ND2	1:e:575:ALA:HA	2.30	0.47
1:Z:416:MET:HG2	1:Z:714:THR:HG22	1.97	0.47
1:a:544:LEU:HB3	1:a:711:THR:HG23	1.97	0.47
1:d:544:LEU:HB3	1:d:711:THR:HG23	1.97	0.47
1:g:686:TYR:HD1	1:g:710[B]:ARG:NH2	2.12	0.47
1:h:494:TRP:CD1	1:h:503:TYR:HD1	2.33	0.47
1:n:544:LEU:HB3	1:n:711:THR:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:416:MET:HG2	1:p:714:THR:HG22	1.97	0.47
1:z:381:PRO:HB2	1:2:684:ILE:HD11	1.97	0.47
1:3:544:LEU:HB3	1:3:711:THR:HG23	1.97	0.47
1:5:423:LEU:HD23	1:5:721:LEU:HD21	1.97	0.47
1:8:342:LEU:HD13	1:8:631:GLN:HG2	1.95	0.47
1:A:445:ASN:HB2	1:G:536:ALA:O	2.15	0.47
1:B:684:ILE:HD11	1:J:381:PRO:HB2	1.97	0.47
1:C:522:LEU:HD12	1:M:435:LEU:HD22	1.97	0.47
1:D:544:LEU:HB3	1:D:711:THR:HG23	1.97	0.47
1:H:381:PRO:HB2	1:Y:684:ILE:HD11	1.96	0.47
1:H:423:LEU:HD23	1:H:721:LEU:HD21	1.97	0.47
1:H:647:PHE:HA	1:Z:359:MET:HE3	1.97	0.47
1:J:423:LEU:HD23	1:J:721:LEU:HD21	1.97	0.47
1:M:482:ASN:ND2	1:b:575:ALA:HA	2.30	0.47
1:M:494:TRP:CD1	1:M:503:TYR:HD1	2.33	0.47
1:U:423:LEU:HD23	1:U:721:LEU:HD21	1.97	0.47
1:Z:536:ALA:O	1:3:445:ASN:HB2	2.14	0.47
1:g:544:LEU:HB3	1:g:711:THR:HG23	1.97	0.47
1:g:610:THR:HA	1:h:593:GLN:NE2	2.29	0.47
1:j:423:LEU:HD23	1:j:721:LEU:HD21	1.97	0.47
1:k:544:LEU:HB3	1:k:711:THR:HG23	1.97	0.47
1:p:240:PRO:HB3	1:q:643:PRO:HG2	1.97	0.47
1:t:416:MET:HG2	1:t:714:THR:HG22	1.97	0.47
1:u:416:MET:HG2	1:u:714:THR:HG22	1.97	0.47
1:v:416:MET:HG2	1:v:714:THR:HG22	1.97	0.47
1:2:423:LEU:HD23	1:2:721:LEU:HD21	1.97	0.47
1:4:544:LEU:HB3	1:4:711:THR:HG23	1.97	0.47
1:8:416:MET:HG2	1:8:714:THR:HG22	1.97	0.47
1:C:544:LEU:HB3	1:C:711:THR:HG23	1.97	0.46
1:P:423:LEU:HD23	1:P:721:LEU:HD21	1.97	0.46
1:S:544:LEU:HB3	1:S:711:THR:HG23	1.97	0.46
1:U:494:TRP:CD1	1:U:503:TYR:HD1	2.33	0.46
1:Z:522:LEU:HD12	1:3:435:LEU:HD22	1.97	0.46
1:g:240:PRO:HB3	1:l:643:PRO:HG2	1.97	0.46
1:i:423:LEU:HD23	1:i:721:LEU:HD21	1.97	0.46
1:r:544:LEU:HB3	1:r:711:THR:HG23	1.97	0.46
1:s:423:LEU:HD23	1:s:721:LEU:HD21	1.97	0.46
1:s:494:TRP:CD1	1:s:503:TYR:HD1	2.33	0.46
1:t:494:TRP:CD1	1:t:503:TYR:HD1	2.33	0.46
1:w:419:HIS:HE1	1:x:609:GLU:O	1.99	0.46
1:x:494:TRP:CD1	1:x:503:TYR:HD1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:342:LEU:HD13	1:y:631:GLN:HG2	1.95	0.46
1:y:686:TYR:HE1	1:y:710[A]:ARG:NH2	2.13	0.46
1:1:423:LEU:HD23	1:1:721:LEU:HD21	1.97	0.46
1:6:494:TRP:CD1	1:6:503:TYR:HD1	2.33	0.46
1:B:544:LEU:HB3	1:B:711:THR:HG23	1.97	0.46
1:G:684:ILE:HD11	1:I:381:PRO:HB2	1.97	0.46
1:J:494:TRP:CD1	1:J:503:TYR:HD1	2.33	0.46
1:N:684:ILE:HD11	1:P:381:PRO:HB2	1.96	0.46
1:O:522:LEU:HD12	1:n:435:LEU:HD22	1.98	0.46
1:V:494:TRP:CD1	1:V:503:TYR:HD1	2.33	0.46
1:a:441:THR:HG21	1:8:481:ASN:HB3	1.97	0.46
1:c:544:LEU:HB3	1:c:711:THR:HG23	1.97	0.46
1:e:544:LEU:HB3	1:e:711:THR:HG23	1.97	0.46
1:f:522:LEU:HD12	1:g:435:LEU:HD22	1.97	0.46
1:f:544:LEU:HB3	1:f:711:THR:HG23	1.97	0.46
1:q:686:TYR:CE1	1:q:710[A]:ARG:CZ	2.98	0.46
1:r:593:GLN:NE2	1:s:610:THR:HA	2.30	0.46
1:t:609:GLU:O	1:v:419:HIS:HE1	1.98	0.46
1:t:690[B]:PHE:CE1	1:5:684:ILE:HG23	2.50	0.46
1:1:544:LEU:HB3	1:1:711:THR:HG23	1.97	0.46
1:8:544:LEU:HB3	1:8:711:THR:HG23	1.97	0.46
1:B:494:TRP:CD1	1:B:503:TYR:HD1	2.33	0.46
1:E:450:LYS:NZ	1:Q:347:GLU:OE2	2.29	0.46
1:E:544:LEU:HB3	1:E:711:THR:HG23	1.97	0.46
1:G:482:ASN:ND2	1:G:484:GLN:HE21	2.12	0.46
1:K:423:LEU:HD23	1:K:721:LEU:HD21	1.97	0.46
1:N:575:ALA:HA	1:P:482:ASN:ND2	2.30	0.46
1:X:423:LEU:HD23	1:X:721:LEU:HD21	1.97	0.46
1:Y:423:LEU:HD23	1:Y:721:LEU:HD21	1.97	0.46
1:Z:544:LEU:HB3	1:Z:711:THR:HG23	1.97	0.46
1:d:423:LEU:HD23	1:d:721:LEU:HD21	1.97	0.46
1:f:494:TRP:CD1	1:f:503:TYR:HD1	2.33	0.46
1:i:441:THR:HG21	1:j:481:ASN:HB3	1.97	0.46
1:l:423:LEU:HD23	1:l:721:LEU:HD21	1.97	0.46
1:m:710[B]:ARG:NH1	1:m:711:THR:O	2.49	0.46
1:p:494:TRP:CD1	1:p:503:TYR:HD1	2.33	0.46
1:t:482:ASN:ND2	1:t:484:GLN:HE21	2.12	0.46
1:w:544:LEU:HB3	1:w:711:THR:HG23	1.97	0.46
1:z:423:LEU:HD23	1:z:721:LEU:HD21	1.97	0.46
1:1:494:TRP:CD1	1:1:503:TYR:HD1	2.33	0.46
1:2:494:TRP:CD1	1:2:503:TYR:HD1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:610:THR:HA	1:4:593:GLN:NE2	2.30	0.46
1:4:423:LEU:HD23	1:4:721:LEU:HD21	1.97	0.46
1:A:416:MET:HG2	1:A:714:THR:HG22	1.97	0.46
1:E:423:LEU:HD23	1:E:721:LEU:HD21	1.97	0.46
1:F:391:PHE:CE1	1:Q:678:LYS:HD3	2.50	0.46
1:G:544:LEU:HB3	1:G:711:THR:HG23	1.97	0.46
1:K:494:TRP:CD1	1:K:503:TYR:HD1	2.33	0.46
1:L:423:LEU:HD23	1:L:721:LEU:HD21	1.97	0.46
1:N:494:TRP:CD1	1:N:503:TYR:HD1	2.33	0.46
1:O:423:LEU:HD23	1:O:721:LEU:HD21	1.97	0.46
1:R:544:LEU:HB3	1:R:711:THR:HG23	1.97	0.46
1:W:494:TRP:CD1	1:W:503:TYR:HD1	2.33	0.46
1:b:544:LEU:HB3	1:b:711:THR:HG23	1.97	0.46
1:f:416:MET:HG2	1:f:714:THR:HG22	1.97	0.46
1:g:416:MET:HG2	1:g:714:THR:HG22	1.97	0.46
1:h:416:MET:HG2	1:h:714:THR:HG22	1.97	0.46
1:i:494:TRP:CD1	1:i:503:TYR:HD1	2.33	0.46
1:j:441:THR:HG21	1:k:481:ASN:HB3	1.98	0.46
1:n:423:LEU:HD23	1:n:721:LEU:HD21	1.97	0.46
1:o:423:LEU:HD23	1:o:721:LEU:HD21	1.97	0.46
1:q:544:LEU:HB3	1:q:711:THR:HG23	1.97	0.46
1:6:435:LEU:HD22	1:7:522:LEU:HD12	1.98	0.46
1:7:423:LEU:HD23	1:7:721:LEU:HD21	1.97	0.46
1:A:678:LYS:HD3	1:G:391:PHE:CE1	2.50	0.46
1:C:416:MET:HG2	1:C:714:THR:HG22	1.97	0.46
1:E:234:THR:OG1	1:E:664:MET:O	2.26	0.46
1:G:420:ASN:HB3	1:G:720:THR:HA	1.96	0.46
1:H:544:LEU:HB3	1:H:711:THR:HG23	1.97	0.46
1:M:416:MET:HG2	1:M:714:THR:HG22	1.97	0.46
1:O:494:TRP:CD1	1:O:503:TYR:HD1	2.33	0.46
1:R:225:MET:HE3	1:R:228[A]:ARG:HB2	1.98	0.46
1:R:494:TRP:CD1	1:R:503:TYR:HD1	2.33	0.46
1:Z:678:LYS:HD3	1:4:391:PHE:CE1	2.51	0.46
1:b:494:TRP:CD1	1:b:503:TYR:HD1	2.33	0.46
1:l:494:TRP:CD1	1:l:503:TYR:HD1	2.33	0.46
1:m:420:ASN:HB3	1:m:720:THR:HA	1.96	0.46
1:m:441:THR:HG21	1:n:481:ASN:HB3	1.96	0.46
1:m:593:GLN:NE2	1:n:610:THR:HA	2.30	0.46
1:4:494:TRP:CD1	1:4:503:TYR:HD1	2.33	0.46
1:A:482:ASN:ND2	1:I:575:ALA:HA	2.31	0.46
1:E:416:MET:HG2	1:E:714:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:327:THR:HG22	1:L:397:ARG:HG2	1.98	0.46
1:R:482:ASN:ND2	1:U:575:ALA:HA	2.31	0.46
1:R:522:LEU:HD12	1:U:435:LEU:HD22	1.98	0.46
1:T:420:ASN:HB3	1:T:720:THR:HA	1.96	0.46
1:W:423:LEU:HD23	1:W:721:LEU:HD21	1.97	0.46
1:b:416:MET:HG2	1:b:714:THR:HG22	1.97	0.46
1:c:423:LEU:HD23	1:c:721:LEU:HD21	1.97	0.46
1:j:327:THR:HG22	1:j:397:ARG:HG2	1.98	0.46
1:o:228[A]:ARG:HD2	1:o:669:GLU:OE2	2.16	0.46
1:q:494:TRP:CD1	1:q:503:TYR:HD1	2.33	0.46
1:t:420:ASN:HB3	1:t:720:THR:HA	1.96	0.46
1:t:544:LEU:HB3	1:t:711:THR:HG23	1.97	0.46
1:w:423:LEU:HD23	1:w:721:LEU:HD21	1.97	0.46
1:w:450:LYS:NZ	1:x:347:GLU:OE2	2.29	0.46
1:z:327:THR:HG22	1:z:397:ARG:HG2	1.98	0.46
1:5:643:PRO:HG2	1:8:240:PRO:HB3	1.98	0.46
1:6:416:MET:HG2	1:6:714:THR:HG22	1.97	0.46
1:8:423:LEU:HD23	1:8:721:LEU:HD21	1.97	0.46
1:A:391:PHE:CE1	1:I:678:LYS:HD3	2.50	0.46
1:B:234:THR:OG1	1:B:664:MET:O	2.26	0.46
1:C:423:LEU:HD23	1:C:721:LEU:HD21	1.97	0.46
1:C:482:ASN:ND2	1:M:575:ALA:HA	2.31	0.46
1:E:327:THR:HG22	1:E:397:ARG:HG2	1.98	0.46
1:G:445:ASN:HB2	1:I:536:ALA:O	2.16	0.46
1:G:575:ALA:HA	1:I:482:ASN:ND2	2.31	0.46
1:H:482:ASN:ND2	1:Y:575:ALA:HA	2.30	0.46
1:K:327:THR:HG22	1:K:397:ARG:HG2	1.98	0.46
1:L:528:LYS:HE3	1:L:707:ILE:HD11	1.98	0.46
1:O:528:LYS:HE3	1:O:707:ILE:HD11	1.98	0.46
1:P:327:THR:HG22	1:P:397:ARG:HG2	1.98	0.46
1:R:416:MET:HG2	1:R:714:THR:HG22	1.97	0.46
1:W:416:MET:HG2	1:W:714:THR:HG22	1.97	0.46
1:W:528:LYS:HE3	1:W:707:ILE:HD11	1.98	0.46
1:Y:327:THR:HG22	1:Y:397:ARG:HG2	1.98	0.46
1:Z:423:LEU:HD23	1:Z:721:LEU:HD21	1.97	0.46
1:Z:528:LYS:HE3	1:Z:707:ILE:HD11	1.98	0.46
1:c:522:LEU:HD12	1:p:435:LEU:HD22	1.97	0.46
1:g:423:LEU:HD23	1:g:721:LEU:HD21	1.97	0.46
1:j:643:PRO:HG2	1:l:240:PRO:HB3	1.98	0.46
1:n:528:LYS:HE3	1:n:707:ILE:HD11	1.98	0.46
1:t:419:HIS:HE1	1:u:609:GLU:O	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:419:HIS:HE1	1:v:609:GLU:O	1.99	0.46
1:w:234:THR:OG1	1:w:664:MET:O	2.26	0.46
1:x:544:LEU:HB3	1:x:711:THR:HG23	1.97	0.46
1:4:327:THR:HG22	1:4:397:ARG:HG2	1.98	0.46
1:6:423:LEU:HD23	1:6:721:LEU:HD21	1.97	0.46
1:6:684:ILE:HD11	1:7:381:PRO:HB2	1.98	0.46
1:7:528:LYS:HE3	1:7:707:ILE:HD11	1.98	0.46
1:8:528:LYS:HE3	1:8:707:ILE:HD11	1.98	0.46
1:E:536:ALA:O	1:F:445:ASN:HB2	2.15	0.46
1:R:528:LYS:HE3	1:R:707:ILE:HD11	1.98	0.46
1:T:327:THR:HG22	1:T:397:ARG:HG2	1.98	0.46
1:Y:528:LYS:HE3	1:Y:707:ILE:HD11	1.98	0.46
1:d:528:LYS:HE3	1:d:707:ILE:HD11	1.98	0.46
1:e:423:LEU:HD23	1:e:721:LEU:HD21	1.97	0.46
1:g:643:PRO:HG2	1:k:240:PRO:HB3	1.98	0.46
1:j:494:TRP:CD1	1:j:503:TYR:HD1	2.33	0.46
1:l:528:LYS:HE3	1:l:707:ILE:HD11	1.98	0.46
1:m:544:LEU:HB3	1:m:711:THR:HG23	1.97	0.46
1:o:327:THR:HG22	1:o:397:ARG:HG2	1.98	0.46
1:o:367:THR:HG21	1:o:384:ALA:N	2.25	0.46
1:p:686:TYR:CD1	1:p:710[B]:ARG:NH2	2.84	0.46
1:q:416:MET:HG2	1:q:714:THR:HG22	1.97	0.46
1:q:528:LYS:HE3	1:q:707:ILE:HD11	1.98	0.46
1:s:710[B]:ARG:HB3	1:s:710[B]:ARG:NH1	2.29	0.46
1:w:327:THR:HG22	1:w:397:ARG:HG2	1.98	0.46
1:w:416:MET:HG2	1:w:714:THR:HG22	1.97	0.46
1:x:327:THR:HG22	1:x:397:ARG:HG2	1.98	0.46
1:z:528:LYS:HE3	1:z:707:ILE:HD11	1.98	0.46
1:1:686:TYR:CE1	1:1:710[A]:ARG:CZ	2.98	0.46
1:5:544:LEU:HB3	1:5:711:THR:HG23	1.97	0.46
1:7:327:THR:HG22	1:7:397:ARG:HG2	1.98	0.46
1:7:544:LEU:HB3	1:7:711:THR:HG23	1.97	0.46
1:A:544:LEU:HB3	1:A:711:THR:HG23	1.97	0.46
1:B:678:LYS:HD3	1:J:391:PHE:CE1	2.51	0.46
1:D:575:ALA:HA	1:N:482:ASN:ND2	2.31	0.46
1:I:423:LEU:HD23	1:I:721:LEU:HD21	1.97	0.46
1:K:416:MET:HG2	1:K:714:THR:HG22	1.97	0.46
1:O:678:LYS:HD3	1:m:391:PHE:CE1	2.50	0.46
1:P:494:TRP:CD1	1:P:503:TYR:HD1	2.33	0.46
1:Q:327:THR:HG22	1:Q:397:ARG:HG2	1.98	0.46
1:Q:544:LEU:HB3	1:Q:711:THR:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:544:LEU:HB3	1:T:711:THR:HG23	1.97	0.46
1:T:575:ALA:HA	1:d:482:ASN:ND2	2.31	0.46
1:Y:544:LEU:HB3	1:Y:711:THR:HG23	1.97	0.46
1:a:416:MET:HG2	1:a:714:THR:HG22	1.97	0.46
1:g:391:PHE:CE1	1:h:678:LYS:HD3	2.50	0.46
1:i:482:ASN:ND2	1:k:575:ALA:HA	2.31	0.46
1:j:684:ILE:HG23	1:w:690[B]:PHE:CE1	2.50	0.46
1:l:643:PRO:HG2	1:n:240:PRO:HB3	1.98	0.46
1:m:327:THR:HG22	1:m:397:ARG:HG2	1.98	0.46
1:o:450:LYS:NZ	1:p:347:GLU:OE2	2.28	0.46
1:p:528:LYS:HE3	1:p:707:ILE:HD11	1.98	0.46
1:p:643:PRO:HG2	1:6:240:PRO:HB3	1.98	0.46
1:s:416:MET:HG2	1:s:714:THR:HG22	1.97	0.46
1:x:419:HIS:HE1	1:y:609:GLU:O	1.99	0.46
1:z:441:THR:HG21	1:1:481:ASN:HB3	1.98	0.46
1:z:710[B]:ARG:HB3	1:z:710[B]:ARG:NH1	2.29	0.46
1:1:419:HIS:HE1	1:2:609:GLU:O	1.99	0.46
1:3:528:LYS:HE3	1:3:707:ILE:HD11	1.98	0.46
1:4:416:MET:HG2	1:4:714:THR:HG22	1.97	0.46
1:6:528:LYS:HE3	1:6:707:ILE:HD11	1.98	0.46
1:B:482:ASN:ND2	1:L:575:ALA:HA	2.31	0.46
1:B:522:LEU:HD12	1:L:435:LEU:HD22	1.98	0.46
1:E:678:LYS:HD3	1:Q:391:PHE:CE1	2.52	0.46
1:E:684:ILE:HD11	1:Q:381:PRO:HB2	1.98	0.46
1:K:522:LEU:HD12	1:8:435:LEU:HD22	1.98	0.46
1:K:610:THR:HA	1:8:593:GLN:NE2	2.31	0.46
1:M:327:THR:HG22	1:M:397:ARG:HG2	1.98	0.46
1:M:544:LEU:HB3	1:M:711:THR:HG23	1.97	0.46
1:O:347:GLU:OE2	1:n:450:LYS:NZ	2.30	0.46
1:R:647:PHE:HA	1:V:359:MET:HE3	1.98	0.46
1:S:575:ALA:HA	1:U:482:ASN:ND2	2.31	0.46
1:T:445:ASN:HB2	1:d:536:ALA:O	2.16	0.46
1:T:482:ASN:ND2	1:l:575:ALA:HA	2.31	0.46
1:U:416:MET:HG2	1:U:714:THR:HG22	1.97	0.46
1:V:528:LYS:HE3	1:V:707:ILE:HD11	1.98	0.46
1:X:327:THR:HG22	1:X:397:ARG:HG2	1.98	0.46
1:c:482:ASN:ND2	1:p:575:ALA:HA	2.31	0.46
1:e:240:PRO:HB3	1:h:643:PRO:HG2	1.98	0.46
1:f:593:GLN:NE2	1:h:610:THR:HA	2.31	0.46
1:h:327:THR:HG22	1:h:397:ARG:HG2	1.98	0.46
1:i:522:LEU:HD12	1:k:435:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:240:PRO:HB3	1:y:643:PRO:HG2	1.98	0.46
1:r:684:ILE:HD11	1:s:381:PRO:HB2	1.97	0.46
1:v:544:LEU:HB3	1:v:711:THR:HG23	1.97	0.46
1:x:528:LYS:HE3	1:x:707:ILE:HD11	1.98	0.46
1:1:234:THR:OG1	1:1:664:MET:O	2.26	0.46
1:3:416:MET:HG2	1:3:714:THR:HG22	1.97	0.46
1:E:391:PHE:CE1	1:F:678:LYS:HD3	2.51	0.45
1:F:482:ASN:ND2	1:Q:575:ALA:HA	2.31	0.45
1:G:327:THR:HG22	1:G:397:ARG:HG2	1.98	0.45
1:H:494:TRP:CD1	1:H:503:TYR:HD1	2.33	0.45
1:J:544:LEU:HB3	1:J:711:THR:HG23	1.97	0.45
1:L:544:LEU:HB3	1:L:711:THR:HG23	1.97	0.45
1:Q:528:LYS:HE3	1:Q:707:ILE:HD11	1.98	0.45
1:R:445:ASN:HB2	1:S:536:ALA:O	2.17	0.45
1:S:678:LYS:HD3	1:U:391:PHE:CE1	2.51	0.45
1:X:416:MET:HG2	1:X:714:THR:HG22	1.97	0.45
1:a:423:LEU:HD23	1:a:721:LEU:HD21	1.97	0.45
1:a:528:LYS:HE3	1:a:707:ILE:HD11	1.98	0.45
1:c:593:GLN:NE2	1:o:610:THR:HA	2.31	0.45
1:h:544:LEU:HB3	1:h:711:THR:HG23	1.97	0.45
1:m:678:LYS:HD3	1:n:391:PHE:CE1	2.50	0.45
1:o:416:MET:HG2	1:o:714:THR:HG22	1.97	0.45
1:s:528:LYS:HE3	1:s:707:ILE:HD11	1.98	0.45
1:t:327:THR:HG22	1:t:397:ARG:HG2	1.98	0.45
1:u:327:THR:HG22	1:u:397:ARG:HG2	1.98	0.45
1:u:423:LEU:HD23	1:u:721:LEU:HD21	1.97	0.45
1:v:327:THR:HG22	1:v:397:ARG:HG2	1.98	0.45
1:y:327:THR:HG22	1:y:397:ARG:HG2	1.98	0.45
1:2:544:LEU:HB3	1:2:711:THR:HG23	1.97	0.45
1:5:327:THR:HG22	1:5:397:ARG:HG2	1.98	0.45
1:5:494:TRP:CD1	1:5:503:TYR:HD1	2.33	0.45
1:B:528:LYS:HE3	1:B:707:ILE:HD11	1.98	0.45
1:D:482:ASN:ND2	1:P:575:ALA:HA	2.31	0.45
1:F:647:PHE:HA	1:R:359:MET:HE3	1.99	0.45
1:H:327:THR:HG22	1:H:397:ARG:HG2	1.98	0.45
1:I:327:THR:HG22	1:I:397:ARG:HG2	1.98	0.45
1:K:381:PRO:HB2	1:8:684:ILE:HD11	1.99	0.45
1:N:528:LYS:HE3	1:N:707:ILE:HD11	1.98	0.45
1:O:544:LEU:HB3	1:O:711:THR:HG23	1.97	0.45
1:U:528:LYS:HE3	1:U:707:ILE:HD11	1.98	0.45
1:V:522:LEU:HD12	1:X:435:LEU:HD22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:575:ALA:HA	1:Y:482:ASN:ND2	2.31	0.45
1:X:367:THR:HG21	1:X:384:ALA:N	2.25	0.45
1:a:327:THR:HG22	1:a:397:ARG:HG2	1.98	0.45
1:c:327:THR:HG22	1:c:397:ARG:HG2	1.98	0.45
1:d:416:MET:HG2	1:d:714:THR:HG22	1.97	0.45
1:d:441:THR:HG21	1:l:481:ASN:HB3	1.97	0.45
1:e:327:THR:HG22	1:e:397:ARG:HG2	1.98	0.45
1:f:381:PRO:HB2	1:g:684:ILE:HD11	1.98	0.45
1:l:544:LEU:HB3	1:l:711:THR:HG23	1.97	0.45
1:o:678:LYS:HD3	1:p:391:PHE:CE1	2.50	0.45
1:q:419:HIS:HE1	1:r:609:GLU:O	1.99	0.45
1:s:327:THR:HG22	1:s:397:ARG:HG2	1.98	0.45
1:x:423:LEU:HD23	1:x:721:LEU:HD21	1.97	0.45
1:z:544:LEU:HB3	1:z:711:THR:HG23	1.97	0.45
1:1:528:LYS:HE3	1:1:707:ILE:HD11	1.98	0.45
1:1:686:TYR:CE1	1:1:710[A]:ARG:NH2	2.85	0.45
1:2:327:THR:HG22	1:2:397:ARG:HG2	1.98	0.45
1:3:423:LEU:HD23	1:3:721:LEU:HD21	1.97	0.45
1:5:347:GLU:OE2	1:7:450:LYS:NZ	2.29	0.45
1:5:419:HIS:HE1	1:6:609:GLU:O	1.99	0.45
1:A:327:THR:HG22	1:A:397:ARG:HG2	1.98	0.45
1:D:423:LEU:HD23	1:D:721:LEU:HD21	1.97	0.45
1:F:327:THR:HG22	1:F:397:ARG:HG2	1.98	0.45
1:K:445:ASN:HB2	1:a:536:ALA:O	2.16	0.45
1:K:465:PRO:HB3	1:a:496:LEU:HD12	1.99	0.45
1:O:536:ALA:O	1:n:445:ASN:HB2	2.16	0.45
1:S:423:LEU:HD23	1:S:721:LEU:HD21	1.97	0.45
1:b:327:THR:HG22	1:b:397:ARG:HG2	1.98	0.45
1:b:423:LEU:HD23	1:b:721:LEU:HD21	1.97	0.45
1:f:327:THR:HG22	1:f:397:ARG:HG2	1.98	0.45
1:i:528:LYS:HE3	1:i:707:ILE:HD11	1.98	0.45
1:m:575:ALA:HA	1:n:482:ASN:ND2	2.32	0.45
1:n:416:MET:HG2	1:n:714:THR:HG22	1.97	0.45
1:r:423:LEU:HD23	1:r:721:LEU:HD21	1.97	0.45
1:r:575:ALA:HA	1:s:482:ASN:ND2	2.31	0.45
1:w:481:ASN:HB3	1:y:441:THR:HG21	1.98	0.45
1:6:575:ALA:HA	1:7:482:ASN:ND2	2.31	0.45
1:B:445:ASN:HB2	1:J:536:ALA:O	2.17	0.45
1:H:351:PRO:HD3	1:H:358:PHE:CD2	2.52	0.45
1:I:528:LYS:HE3	1:I:707:ILE:HD11	1.98	0.45
1:J:327:THR:HG22	1:J:397:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:528:LYS:HE3	1:J:707:ILE:HD11	1.98	0.45
1:K:346:HIS:CD2	1:8:431:VAL:HG23	2.52	0.45
1:T:528:LYS:HE3	1:T:707:ILE:HD11	1.98	0.45
1:U:327:THR:HG22	1:U:397:ARG:HG2	1.98	0.45
1:a:575:ALA:HA	1:8:482:ASN:ND2	2.32	0.45
1:f:423:LEU:HD23	1:f:721:LEU:HD21	1.97	0.45
1:g:686:TYR:CD1	1:g:710[B]:ARG:NH2	2.84	0.45
1:h:228[A]:ARG:HD2	1:h:669:GLU:OE2	2.16	0.45
1:o:441:THR:HG21	1:p:481:ASN:HB3	1.99	0.45
1:p:423:LEU:HD23	1:p:721:LEU:HD21	1.97	0.45
1:q:435:LEU:HD22	1:r:522:LEU:HD12	1.98	0.45
1:t:481:ASN:HB3	1:v:441:THR:HG21	1.98	0.45
1:w:528:LYS:HE3	1:w:707:ILE:HD11	1.98	0.45
1:3:327:THR:HG22	1:3:397:ARG:HG2	1.98	0.45
1:C:575:ALA:HA	1:b:482:ASN:ND2	2.31	0.45
1:E:482:ASN:ND2	1:F:575:ALA:HA	2.31	0.45
1:E:528:LYS:HE3	1:E:707:ILE:HD11	1.98	0.45
1:F:544:LEU:HB3	1:F:711:THR:HG23	1.97	0.45
1:J:240:PRO:HB3	1:a:643:PRO:HG2	1.99	0.45
1:O:346:HIS:CD2	1:n:431:VAL:HG23	2.52	0.45
1:Q:423:LEU:HD23	1:Q:721:LEU:HD21	1.97	0.45
1:R:423:LEU:HD23	1:R:721:LEU:HD21	1.97	0.45
1:R:678:LYS:HD3	1:S:391:PHE:CE1	2.51	0.45
1:V:423:LEU:HD23	1:V:721:LEU:HD21	1.97	0.45
1:V:544:LEU:HB3	1:V:711:THR:HG23	1.97	0.45
1:c:575:ALA:HA	1:o:482:ASN:ND2	2.32	0.45
1:f:575:ALA:HA	1:h:482:ASN:ND2	2.32	0.45
1:k:423:LEU:HD23	1:k:721:LEU:HD21	1.97	0.45
1:m:528:LYS:HE3	1:m:707:ILE:HD11	1.98	0.45
1:q:431:VAL:HG23	1:r:346:HIS:CD2	2.52	0.45
1:u:528:LYS:HE3	1:u:707:ILE:HD11	1.98	0.45
1:v:686:TYR:HE1	1:v:710[A]:ARG:NH2	2.13	0.45
1:y:544:LEU:HB3	1:y:711:THR:HG23	1.97	0.45
1:2:528:LYS:HE3	1:2:707:ILE:HD11	1.98	0.45
1:5:351:PRO:HD3	1:5:358:PHE:CD2	2.52	0.45
1:5:528:LYS:HE3	1:5:707:ILE:HD11	1.98	0.45
1:A:575:ALA:HA	1:G:482:ASN:ND2	2.31	0.45
1:B:575:ALA:HA	1:J:482:ASN:ND2	2.32	0.45
1:E:445:ASN:HB2	1:Q:536:ALA:O	2.17	0.45
1:O:482:ASN:ND2	1:n:575:ALA:HA	2.31	0.45
1:Q:351:PRO:HD3	1:Q:358:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:435:LEU:HD22	1:d:522:LEU:HD12	1.99	0.45
1:V:575:ALA:HA	1:e:482:ASN:ND2	2.32	0.45
1:W:544:LEU:HB3	1:W:711:THR:HG23	1.97	0.45
1:c:528:LYS:HE3	1:c:707:ILE:HD11	1.98	0.45
1:f:482:ASN:ND2	1:g:575:ALA:HA	2.31	0.45
1:g:482:ASN:ND2	1:h:575:ALA:HA	2.32	0.45
1:i:381:PRO:HB2	1:k:684:ILE:HD11	1.98	0.45
1:m:240:PRO:HB3	1:s:643:PRO:HG2	1.98	0.45
1:p:544:LEU:HB3	1:p:711:THR:HG23	1.97	0.45
1:q:423:LEU:HD23	1:q:721:LEU:HD21	1.97	0.45
1:r:435:LEU:HD22	1:s:522:LEU:HD12	1.99	0.45
1:t:351:PRO:HD3	1:t:358:PHE:CD2	2.52	0.45
1:x:351:PRO:HD3	1:x:358:PHE:CD2	2.52	0.45
1:1:327:THR:HG22	1:1:397:ARG:HG2	1.98	0.45
1:5:450:LYS:NZ	1:6:347:GLU:OE2	2.28	0.45
1:A:496:LEU:HD12	1:I:465:PRO:HB3	1.99	0.45
1:B:351:PRO:HD3	1:B:358:PHE:CD2	2.52	0.45
1:C:346:HIS:CD2	1:M:431:VAL:HG23	2.52	0.45
1:C:678:LYS:HD3	1:b:391:PHE:CE1	2.52	0.45
1:G:351:PRO:HD3	1:G:358:PHE:CD2	2.52	0.45
1:H:528:LYS:HE3	1:H:707:ILE:HD11	1.98	0.45
1:I:240:PRO:HB3	1:J:643:PRO:HG2	1.99	0.45
1:N:431:VAL:HG23	1:P:346:HIS:CD2	2.52	0.45
1:O:359:MET:HE3	1:P:647:PHE:HA	1.99	0.45
1:O:575:ALA:HA	1:m:482:ASN:ND2	2.32	0.45
1:S:240:PRO:HB3	1:d:643:PRO:HG2	1.99	0.45
1:V:346:HIS:CD2	1:X:431:VAL:HG23	2.52	0.45
1:V:450:LYS:NZ	1:e:347:GLU:OE2	2.28	0.45
1:V:482:ASN:ND2	1:X:575:ALA:HA	2.31	0.45
1:W:690[A]:PHE:CE1	1:W:691:ASN:OD1	2.70	0.45
1:Z:346:HIS:CD2	1:3:431:VAL:HG23	2.52	0.45
1:Z:431:VAL:HG23	1:4:346:HIS:CD2	2.52	0.45
1:Z:610:THR:HA	1:3:593:GLN:NE2	2.32	0.45
1:g:351:PRO:HD3	1:g:358:PHE:CD2	2.52	0.45
1:j:240:PRO:HB3	1:x:643:PRO:HG2	1.99	0.45
1:j:419:HIS:HE1	1:k:609:GLU:O	1.99	0.45
1:k:643:PRO:HG2	1:w:240:PRO:HB3	1.99	0.45
1:m:690[B]:PHE:CZ	1:r:684:ILE:HG23	2.52	0.45
1:q:686:TYR:CE1	1:q:710[A]:ARG:NH2	2.85	0.45
1:u:441:THR:HG21	1:v:481:ASN:HB3	1.99	0.45
1:v:240:PRO:HB3	1:w:643:PRO:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:351:PRO:HD3	1:1:358:PHE:CD2	2.52	0.45
1:1:441:THR:HG22	1:1:441:THR:O	2.17	0.45
1:2:684:ILE:HG23	1:4:690[B]:PHE:CZ	2.52	0.45
1:4:351:PRO:HD3	1:4:358:PHE:CD2	2.52	0.45
1:4:710[B]:ARG:NH1	1:4:711:THR:O	2.49	0.45
1:6:544:LEU:HB3	1:6:711:THR:HG23	1.97	0.45
1:A:351:PRO:HD3	1:A:358:PHE:CD2	2.52	0.45
1:B:327:THR:HG22	1:B:397:ARG:HG2	1.98	0.45
1:C:351:PRO:HD3	1:C:358:PHE:CD2	2.52	0.45
1:N:240:PRO:HB3	1:m:643:PRO:HG2	1.98	0.45
1:R:351:PRO:HD3	1:R:358:PHE:CD2	2.52	0.45
1:S:351:PRO:HD3	1:S:358:PHE:CD2	2.52	0.45
1:V:327:THR:HG22	1:V:397:ARG:HG2	1.98	0.45
1:Y:240:PRO:HB3	1:4:643:PRO:HG2	1.98	0.45
1:e:528:LYS:HE3	1:e:707:ILE:HD11	1.98	0.45
1:f:346:HIS:CD2	1:g:431:VAL:HG23	2.52	0.45
1:f:465:PRO:HB3	1:h:496:LEU:HD12	1.99	0.45
1:h:351:PRO:HD3	1:h:358:PHE:CD2	2.52	0.45
1:j:575:ALA:HA	1:k:482:ASN:ND2	2.32	0.45
1:n:643:PRO:HG2	1:r:240:PRO:HB3	1.99	0.45
1:q:351:PRO:HD3	1:q:358:PHE:CD2	2.52	0.45
1:t:367:THR:HG21	1:t:384:ALA:N	2.25	0.45
1:x:441:THR:HG21	1:y:481:ASN:HB3	1.99	0.45
1:1:367:THR:HG21	1:1:384:ALA:N	2.25	0.45
1:5:441:THR:HG21	1:6:481:ASN:HB3	1.98	0.45
1:B:225:MET:HE3	1:B:228[A]:ARG:HB2	1.98	0.45
1:B:367:THR:HG21	1:B:384:ALA:N	2.25	0.45
1:B:441:THR:HG22	1:B:441:THR:O	2.17	0.45
1:D:327:THR:HG22	1:D:397:ARG:HG2	1.98	0.45
1:F:522:LEU:HD12	1:Q:435:LEU:HD22	1.99	0.45
1:H:435:LEU:HD22	1:W:522:LEU:HD12	1.99	0.45
1:K:351:PRO:HD3	1:K:358:PHE:CD2	2.52	0.45
1:K:441:THR:O	1:K:441:THR:HG22	2.17	0.45
1:N:441:THR:O	1:N:441:THR:HG22	2.17	0.45
1:P:351:PRO:HD3	1:P:358:PHE:CD2	2.52	0.45
1:P:441:THR:O	1:P:441:THR:HG22	2.17	0.45
1:R:496:LEU:HD12	1:U:465:PRO:HB3	1.99	0.45
1:i:441:THR:O	1:i:441:THR:HG22	2.17	0.45
1:i:575:ALA:HA	1:j:482:ASN:ND2	2.32	0.45
1:j:441:THR:HG22	1:j:441:THR:O	2.17	0.45
1:r:351:PRO:HD3	1:r:358:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:643:PRO:HG2	1:y:240:PRO:HB3	1.99	0.45
1:u:575:ALA:HA	1:v:482:ASN:ND2	2.32	0.45
1:v:351:PRO:HD3	1:v:358:PHE:CD2	2.52	0.45
1:w:431:VAL:HG23	1:x:346:HIS:CD2	2.52	0.45
1:6:431:VAL:HG23	1:7:346:HIS:CD2	2.52	0.45
1:D:522:LEU:HD12	1:P:435:LEU:HD22	1.99	0.45
1:D:528:LYS:HE3	1:D:707:ILE:HD11	1.98	0.45
1:F:346:HIS:CD2	1:Q:431:VAL:HG23	2.52	0.45
1:F:528:LYS:HE3	1:F:707:ILE:HD11	1.98	0.45
1:G:441:THR:HG22	1:G:441:THR:O	2.17	0.45
1:J:351:PRO:HD3	1:J:358:PHE:CD2	2.52	0.45
1:J:575:ALA:HA	1:L:482:ASN:ND2	2.31	0.45
1:K:435:LEU:HD22	1:a:522:LEU:HD12	1.99	0.45
1:K:482:ASN:ND2	1:8:575:ALA:HA	2.31	0.45
1:L:351:PRO:HD3	1:L:358:PHE:CD2	2.52	0.45
1:M:351:PRO:HD3	1:M:358:PHE:CD2	2.52	0.45
1:O:367:THR:HG21	1:O:384:ALA:N	2.25	0.45
1:R:465:PRO:HB3	1:S:496:LEU:HD12	1.99	0.45
1:R:575:ALA:HA	1:S:482:ASN:ND2	2.32	0.45
1:T:367:THR:HG21	1:T:384:ALA:N	2.25	0.45
1:T:431:VAL:HG23	1:d:346:HIS:CD2	2.52	0.45
1:U:441:THR:O	1:U:441:THR:HG22	2.17	0.45
1:V:347:GLU:OE2	1:X:450:LYS:NZ	2.29	0.45
1:V:496:LEU:HD11	1:X:553:THR:O	2.17	0.45
1:b:240:PRO:HB3	1:o:643:PRO:HG2	1.98	0.45
1:c:684:ILE:HD11	1:o:381:PRO:HB2	1.99	0.45
1:d:441:THR:HG22	1:d:441:THR:O	2.17	0.45
1:f:528:LYS:HE3	1:f:707:ILE:HD11	1.98	0.45
1:i:346:HIS:CD2	1:k:431:VAL:HG23	2.52	0.45
1:j:351:PRO:HD3	1:j:358:PHE:CD2	2.52	0.45
1:k:327:THR:HG22	1:k:397:ARG:HG2	1.98	0.45
1:k:351:PRO:HD3	1:k:358:PHE:CD2	2.52	0.45
1:l:441:THR:O	1:l:441:THR:HG22	2.17	0.45
1:n:441:THR:O	1:n:441:THR:HG22	2.17	0.45
1:t:431:VAL:HG23	1:u:346:HIS:CD2	2.52	0.45
1:t:441:THR:O	1:t:441:THR:HG22	2.17	0.45
1:w:575:ALA:HA	1:x:482:ASN:ND2	2.32	0.45
1:y:528:LYS:HE3	1:y:707:ILE:HD11	1.98	0.45
1:1:435:LEU:HD22	1:2:522:LEU:HD12	1.98	0.45
1:B:496:LEU:HD11	1:L:553:THR:O	2.17	0.44
1:B:496:LEU:HD12	1:L:465:PRO:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:647:PHE:HA	1:C:359:MET:HE3	1.99	0.44
1:D:351:PRO:HD3	1:D:358:PHE:CD2	2.52	0.44
1:D:643:PRO:HG2	1:E:240:PRO:HB3	1.99	0.44
1:G:367:THR:HG21	1:G:384:ALA:N	2.25	0.44
1:H:441:THR:O	1:H:441:THR:HG22	2.17	0.44
1:I:351:PRO:HD3	1:I:358:PHE:CD2	2.52	0.44
1:M:528:LYS:HE3	1:M:707:ILE:HD11	1.98	0.44
1:O:441:THR:HG22	1:O:441:THR:O	2.17	0.44
1:O:465:PRO:HB3	1:m:496:LEU:HD12	1.99	0.44
1:O:647:PHE:HA	1:d:359:MET:HE3	2.00	0.44
1:T:346:HIS:CD2	1:l:431:VAL:HG23	2.52	0.44
1:T:610:THR:HA	1:l:593:GLN:NE2	2.31	0.44
1:V:496:LEU:HD12	1:X:465:PRO:HB3	1.99	0.44
1:W:351:PRO:HD3	1:W:358:PHE:CD2	2.52	0.44
1:X:240:PRO:HB3	1:Y:643:PRO:HG2	1.98	0.44
1:a:441:THR:O	1:a:441:THR:HG22	2.17	0.44
1:k:227:ASP:OD1	1:k:228[A]:ARG:HG2	2.17	0.44
1:k:528:LYS:HE3	1:k:707:ILE:HD11	1.98	0.44
1:l:367:THR:HG21	1:l:384:ALA:N	2.25	0.44
1:o:575:ALA:HA	1:p:482:ASN:ND2	2.32	0.44
1:p:327:THR:HG22	1:p:397:ARG:HG2	1.98	0.44
1:q:481:ASN:HB3	1:s:441:THR:HG21	1.98	0.44
1:q:482:ASN:ND2	1:s:575:ALA:HA	2.33	0.44
1:r:431:VAL:HG23	1:s:346:HIS:CD2	2.52	0.44
1:s:441:THR:O	1:s:441:THR:HG22	2.17	0.44
1:t:575:ALA:HA	1:u:482:ASN:ND2	2.32	0.44
1:u:351:PRO:HD3	1:u:358:PHE:CD2	2.52	0.44
1:u:643:PRO:HG2	1:5:240:PRO:HB3	1.99	0.44
1:w:482:ASN:ND2	1:y:575:ALA:HA	2.32	0.44
1:z:351:PRO:HD3	1:z:358:PHE:CD2	2.52	0.44
1:z:643:PRO:HG2	1:4:240:PRO:HB3	1.98	0.44
1:1:431:VAL:HG23	1:2:346:HIS:CD2	2.52	0.44
1:2:240:PRO:HB3	1:3:643:PRO:HG2	1.99	0.44
1:3:441:THR:O	1:3:441:THR:HG22	2.17	0.44
1:4:441:THR:HG22	1:4:441:THR:O	2.17	0.44
1:6:351:PRO:HD3	1:6:358:PHE:CD2	2.52	0.44
1:6:441:THR:O	1:6:441:THR:HG22	2.17	0.44
1:B:346:HIS:CD2	1:L:431:VAL:HG23	2.52	0.44
1:B:465:PRO:HB3	1:J:496:LEU:HD12	1.99	0.44
1:C:465:PRO:HB3	1:b:496:LEU:HD12	2.00	0.44
1:E:351:PRO:HD3	1:E:358:PHE:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:465:PRO:HB3	1:I:496:LEU:HD12	1.99	0.44
1:H:346:HIS:CD2	1:Y:431:VAL:HG23	2.52	0.44
1:H:575:ALA:HA	1:W:482:ASN:ND2	2.31	0.44
1:Q:290:ASN:HD21	1:R:290:ASN:HD21	1.66	0.44
1:Q:441:THR:O	1:Q:441:THR:HG22	2.17	0.44
1:R:367:THR:HG21	1:R:384:ALA:N	2.25	0.44
1:b:528:LYS:HE3	1:b:707:ILE:HD11	1.98	0.44
1:l:351:PRO:HD3	1:l:358:PHE:CD2	2.52	0.44
1:m:431:VAL:HG23	1:n:346:HIS:CD2	2.53	0.44
1:q:367:THR:HG21	1:q:384:ALA:N	2.25	0.44
1:t:528:LYS:HE3	1:t:707:ILE:HD11	1.98	0.44
1:w:346:HIS:CD2	1:y:431:VAL:HG23	2.52	0.44
1:w:351:PRO:HD3	1:w:358:PHE:CD2	2.52	0.44
1:x:431:VAL:HG23	1:y:346:HIS:CD2	2.53	0.44
1:z:450:LYS:NZ	1:l:347:GLU:OE2	2.29	0.44
1:2:227:ASP:OD1	1:2:228[A]:ARG:HG2	2.17	0.44
1:2:441:THR:O	1:2:441:THR:HG22	2.17	0.44
1:5:441:THR:O	1:5:441:THR:HG22	2.17	0.44
1:A:465:PRO:HB3	1:G:496:LEU:HD12	1.99	0.44
1:A:496:LEU:HD11	1:I:553:THR:O	2.17	0.44
1:C:327:THR:HG22	1:C:397:ARG:HG2	1.98	0.44
1:E:575:ALA:HA	1:Q:482:ASN:ND2	2.31	0.44
1:J:431:VAL:HG23	1:L:346:HIS:CD2	2.53	0.44
1:J:441:THR:HG22	1:J:441:THR:O	2.17	0.44
1:K:240:PRO:HB3	1:L:643:PRO:HG2	1.99	0.44
1:O:327:THR:HG22	1:O:397:ARG:HG2	1.98	0.44
1:O:351:PRO:HD3	1:O:358:PHE:CD2	2.52	0.44
1:P:528:LYS:HE3	1:P:707:ILE:HD11	1.98	0.44
1:R:346:HIS:CD2	1:U:431:VAL:HG23	2.52	0.44
1:R:496:LEU:HD11	1:U:553:THR:O	2.17	0.44
1:T:522:LEU:HD12	1:l:435:LEU:HD22	1.98	0.44
1:U:234:THR:OG1	1:U:664:MET:O	2.26	0.44
1:V:465:PRO:HB3	1:e:496:LEU:HD12	2.00	0.44
1:W:441:THR:HG22	1:W:441:THR:O	2.17	0.44
1:Y:351:PRO:HD3	1:Y:358:PHE:CD2	2.52	0.44
1:Y:441:THR:O	1:Y:441:THR:HG22	2.17	0.44
1:Z:327:THR:HG22	1:Z:397:ARG:HG2	1.98	0.44
1:d:678:LYS:HD3	1:l:391:PHE:CE1	2.52	0.44
1:j:528:LYS:HE3	1:j:707:ILE:HD11	1.98	0.44
1:k:441:THR:O	1:k:441:THR:HG22	2.17	0.44
1:r:367:THR:HG21	1:r:384:ALA:N	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:465:PRO:HB3	1:s:496:LEU:HD12	2.00	0.44
1:t:522:LEU:HD12	1:v:435:LEU:HD22	2.00	0.44
1:x:441:THR:O	1:x:441:THR:HG22	2.17	0.44
1:x:686:TYR:HE1	1:x:710[A]:ARG:NH2	2.15	0.44
1:z:482:ASN:ND2	1:2:575:ALA:HA	2.31	0.44
1:1:575:ALA:HA	1:2:482:ASN:ND2	2.32	0.44
1:2:351:PRO:HD3	1:2:358:PHE:CD2	2.52	0.44
1:6:227:ASP:OD1	1:6:228[A]:ARG:HG2	2.17	0.44
1:7:351:PRO:HD3	1:7:358:PHE:CD2	2.52	0.44
1:8:441:THR:O	1:8:441:THR:HG22	2.17	0.44
1:A:359:MET:HE3	1:E:647:PHE:HA	2.00	0.44
1:A:528:LYS:HE3	1:A:707:ILE:HD11	1.98	0.44
1:A:647:PHE:HA	1:B:359:MET:HE3	1.98	0.44
1:D:346:HIS:CD2	1:P:431:VAL:HG23	2.52	0.44
1:D:441:THR:HG22	1:D:441:THR:O	2.17	0.44
1:E:346:HIS:CD2	1:F:431:VAL:HG23	2.53	0.44
1:F:347:GLU:OE2	1:Q:450:LYS:NZ	2.28	0.44
1:K:528:LYS:HE3	1:K:707:ILE:HD11	1.98	0.44
1:K:575:ALA:HA	1:a:482:ASN:ND2	2.31	0.44
1:M:346:HIS:CD2	1:b:431:VAL:HG23	2.52	0.44
1:M:441:THR:O	1:M:441:THR:HG22	2.17	0.44
1:M:610:THR:HA	1:b:593:GLN:NE2	2.33	0.44
1:O:496:LEU:HD11	1:n:553:THR:O	2.18	0.44
1:O:610:THR:HA	1:n:593:GLN:NE2	2.32	0.44
1:R:271:ASP:O	1:R:349:CYS:HA	2.18	0.44
1:S:528:LYS:HE3	1:S:707:ILE:HD11	1.98	0.44
1:T:381:PRO:HB2	1:l:684:ILE:HD11	1.99	0.44
1:W:678:LYS:HD3	1:Y:391:PHE:CE1	2.53	0.44
1:X:528:LYS:HE3	1:X:707:ILE:HD11	1.98	0.44
1:Z:367:THR:HG21	1:Z:384:ALA:N	2.25	0.44
1:Z:441:THR:HG22	1:Z:441:THR:O	2.17	0.44
1:a:228[B]:ARG:HG2	1:a:669:GLU:OE2	2.18	0.44
1:c:381:PRO:HB2	1:p:684:ILE:HD11	1.98	0.44
1:d:351:PRO:HD3	1:d:358:PHE:CD2	2.52	0.44
1:g:327:THR:HG22	1:g:397:ARG:HG2	1.98	0.44
1:g:346:HIS:CD2	1:h:431:VAL:HG23	2.53	0.44
1:h:528:LYS:HE3	1:h:707:ILE:HD11	1.98	0.44
1:l:327:THR:HG22	1:l:397:ARG:HG2	1.98	0.44
1:n:327:THR:HG22	1:n:397:ARG:HG2	1.98	0.44
1:n:351:PRO:HD3	1:n:358:PHE:CD2	2.52	0.44
1:o:431:VAL:HG23	1:p:346:HIS:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:327:THR:HG22	1:r:397:ARG:HG2	1.98	0.44
1:w:435:LEU:HD22	1:x:522:LEU:HD12	1.99	0.44
1:y:441:THR:O	1:y:441:THR:HG22	2.17	0.44
1:z:346:HIS:CD2	1:2:431:VAL:HG23	2.52	0.44
1:z:575:ALA:HA	1:1:482:ASN:ND2	2.33	0.44
1:7:441:THR:HG22	1:7:441:THR:O	2.17	0.44
1:7:690[B]:PHE:CE1	1:8:684:ILE:HG23	2.53	0.44
1:8:327:THR:HG22	1:8:397:ARG:HG2	1.98	0.44
1:A:441:THR:HG22	1:A:441:THR:O	2.17	0.44
1:B:290:ASN:HD21	1:I:290:ASN:HD21	1.66	0.44
1:D:271:ASP:O	1:D:349:CYS:HA	2.18	0.44
1:F:441:THR:O	1:F:441:THR:HG22	2.17	0.44
1:G:271:ASP:O	1:G:349:CYS:HA	2.18	0.44
1:G:528:LYS:HE3	1:G:707:ILE:HD11	1.98	0.44
1:I:302:LYS:HB3	1:I:665:THR:HG22	2.00	0.44
1:K:431:VAL:HG23	1:a:346:HIS:CD2	2.52	0.44
1:M:536:ALA:O	1:b:445:ASN:HB2	2.18	0.44
1:N:351:PRO:HD3	1:N:358:PHE:CD2	2.52	0.44
1:R:431:VAL:HG23	1:S:346:HIS:CD2	2.53	0.44
1:S:327:THR:HG22	1:S:397:ARG:HG2	1.98	0.44
1:S:431:VAL:HG23	1:U:346:HIS:CD2	2.53	0.44
1:Y:271:ASP:O	1:Y:349:CYS:HA	2.18	0.44
1:b:441:THR:HG22	1:b:441:THR:O	2.17	0.44
1:c:465:PRO:HB3	1:o:496:LEU:HD12	1.99	0.44
1:d:228[B]:ARG:HG2	1:d:669:GLU:OE2	2.18	0.44
1:d:327:THR:HG22	1:d:397:ARG:HG2	1.98	0.44
1:e:351:PRO:HD3	1:e:358:PHE:CD2	2.52	0.44
1:f:441:THR:O	1:f:441:THR:HG22	2.17	0.44
1:g:528:LYS:HE3	1:g:707:ILE:HD11	1.98	0.44
1:h:441:THR:O	1:h:441:THR:HG22	2.17	0.44
1:i:351:PRO:HD3	1:i:358:PHE:CD2	2.52	0.44
1:i:431:VAL:HG23	1:j:346:HIS:CD2	2.53	0.44
1:j:302:LYS:HB3	1:j:665:THR:HG22	2.00	0.44
1:j:431:VAL:HG23	1:k:346:HIS:CD2	2.52	0.44
1:k:271:ASP:O	1:k:349:CYS:HA	2.18	0.44
1:m:367:THR:HG21	1:m:384:ALA:N	2.25	0.44
1:q:271:ASP:O	1:q:349:CYS:HA	2.18	0.44
1:q:327:THR:HG22	1:q:397:ARG:HG2	1.98	0.44
1:u:302:LYS:HB3	1:u:665:THR:HG22	2.00	0.44
1:v:441:THR:O	1:v:441:THR:HG22	2.17	0.44
1:v:528:LYS:HE3	1:v:707:ILE:HD11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:643:PRO:HG2	1:1:240:PRO:HB3	1.98	0.44
1:v:704:GLY:HA2	1:w:247:TYR:O	2.18	0.44
1:3:240:PRO:HB3	1:8:643:PRO:HG2	1.98	0.44
1:3:351:PRO:HD3	1:3:358:PHE:CD2	2.52	0.44
1:4:528:LYS:HE3	1:4:707:ILE:HD11	1.98	0.44
1:7:271:ASP:O	1:7:349:CYS:HA	2.18	0.44
1:8:367:THR:HG21	1:8:384:ALA:N	2.25	0.44
1:C:496:LEU:HD12	1:M:465:PRO:HB3	1.99	0.44
1:C:528:LYS:HE3	1:C:707:ILE:HD11	1.98	0.44
1:D:465:PRO:HB3	1:N:496:LEU:HD12	1.99	0.44
1:D:690[A]:PHE:CE1	1:D:691:ASN:OD1	2.70	0.44
1:E:431:VAL:HG23	1:Q:346:HIS:CD2	2.53	0.44
1:F:351:PRO:HD3	1:F:358:PHE:CD2	2.52	0.44
1:L:240:PRO:HB3	1:b:643:PRO:HG2	1.98	0.44
1:M:240:PRO:HB3	1:N:643:PRO:HG2	1.98	0.44
1:N:327:THR:HG22	1:N:397:ARG:HG2	1.98	0.44
1:N:435:LEU:HD22	1:P:522:LEU:HD12	1.98	0.44
1:N:465:PRO:HB3	1:P:496:LEU:HD12	2.00	0.44
1:S:465:PRO:HB3	1:U:496:LEU:HD12	2.00	0.44
1:T:271:ASP:O	1:T:349:CYS:HA	2.18	0.44
1:W:327:THR:HG22	1:W:397:ARG:HG2	1.98	0.44
1:Z:496:LEU:HD11	1:3:553:THR:O	2.17	0.44
1:a:228[A]:ARG:HD2	1:a:669:GLU:OE2	2.18	0.44
1:a:351:PRO:HD3	1:a:358:PHE:CD2	2.52	0.44
1:f:536:ALA:O	1:g:445:ASN:HB2	2.18	0.44
1:j:686:TYR:CE1	1:j:710[A]:ARG:CZ	3.01	0.44
1:r:528:LYS:HE3	1:r:707:ILE:HD11	1.98	0.44
1:t:271:ASP:O	1:t:349:CYS:HA	2.18	0.44
1:t:435:LEU:HD22	1:u:522:LEU:HD12	1.99	0.44
1:w:271:ASP:O	1:w:349:CYS:HA	2.18	0.44
1:y:351:PRO:HD3	1:y:358:PHE:CD2	2.52	0.44
1:z:522:LEU:HD12	1:2:435:LEU:HD22	1.99	0.44
1:2:686:TYR:CD1	1:2:710[B]:ARG:NH2	2.86	0.44
1:3:482:ASN:ND2	1:4:575:ALA:HA	2.32	0.44
1:A:435:LEU:HD22	1:G:522:LEU:HD12	2.00	0.44
1:C:709:ASP:C	1:C:710[B]:ARG:HG2	2.42	0.44
1:E:271:ASP:O	1:E:349:CYS:HA	2.18	0.44
1:H:240:PRO:HB3	1:I:643:PRO:HG2	2.00	0.44
1:H:465:PRO:HB3	1:W:496:LEU:HD12	1.99	0.44
1:H:496:LEU:HD12	1:Y:465:PRO:HB3	2.00	0.44
1:H:553:THR:O	1:W:496:LEU:HD11	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:678:LYS:HD3	1:L:391:PHE:CE1	2.51	0.44
1:J:684:ILE:HD11	1:L:381:PRO:HB2	2.00	0.44
1:L:441:THR:HG22	1:L:441:THR:O	2.17	0.44
1:P:302:LYS:HB3	1:P:665:THR:HG22	2.00	0.44
1:S:367:THR:HG21	1:S:384:ALA:N	2.25	0.44
1:V:302:LYS:HB3	1:V:665:THR:HG22	2.00	0.44
1:X:381:PRO:HB2	1:e:684:ILE:HD11	1.99	0.44
1:X:610:THR:HA	1:e:593:GLN:NE2	2.33	0.44
1:X:647:PHE:HA	1:f:359:MET:HE3	2.00	0.44
1:a:593:GLN:NE2	1:8:610:THR:HA	2.33	0.44
1:b:351:PRO:HD3	1:b:358:PHE:CD2	2.52	0.44
1:c:351:PRO:HD3	1:c:358:PHE:CD2	2.52	0.44
1:d:271:ASP:O	1:d:349:CYS:HA	2.18	0.44
1:d:575:ALA:HA	1:l:482:ASN:ND2	2.32	0.44
1:d:593:GLN:NE2	1:l:610:THR:HA	2.33	0.44
1:n:271:ASP:O	1:n:349:CYS:HA	2.18	0.44
1:o:528:LYS:HE3	1:o:707:ILE:HD11	1.98	0.44
1:p:302:LYS:HB3	1:p:665:THR:HG22	2.00	0.44
1:q:213:GLN:NE2	1:y:209:ASP:HB2	2.33	0.44
1:r:302:LYS:HB3	1:r:665:THR:HG22	2.00	0.44
1:u:431:VAL:HG23	1:v:346:HIS:CD2	2.53	0.44
1:z:441:THR:HG22	1:z:441:THR:O	2.17	0.44
1:A:240:PRO:HB3	1:E:643:PRO:HG2	2.00	0.44
1:A:431:VAL:HG23	1:G:346:HIS:CD2	2.52	0.44
1:C:496:LEU:HD11	1:M:553:THR:O	2.17	0.44
1:D:678:LYS:HD3	1:N:391:PHE:CE1	2.53	0.44
1:F:359:MET:HE3	1:G:647:PHE:HA	2.00	0.44
1:F:496:LEU:HD11	1:Q:553:THR:O	2.18	0.44
1:L:271:ASP:O	1:L:349:CYS:HA	2.18	0.44
1:R:327:THR:HG22	1:R:397:ARG:HG2	1.98	0.44
1:S:302:LYS:HB3	1:S:665:THR:HG22	2.00	0.44
1:U:240:PRO:HB3	1:e:643:PRO:HG2	1.99	0.44
1:V:643:PRO:HG2	1:W:240:PRO:HB3	2.00	0.44
1:V:678:LYS:HD3	1:e:391:PHE:CE1	2.52	0.44
1:X:346:HIS:CD2	1:e:431:VAL:HG23	2.52	0.44
1:a:302:LYS:HB3	1:a:665:THR:HG22	2.00	0.44
1:b:271:ASP:O	1:b:349:CYS:HA	2.18	0.44
1:b:302:LYS:HB3	1:b:665:THR:HG22	2.00	0.44
1:f:302:LYS:HB3	1:f:665:THR:HG22	2.00	0.44
1:f:351:PRO:HD3	1:f:358:PHE:CD2	2.52	0.44
1:g:347:GLU:OE2	1:h:450:LYS:NZ	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:327:THR:HG22	1:i:397:ARG:HG2	1.98	0.44
1:j:271:ASP:O	1:j:349:CYS:HA	2.18	0.44
1:j:435:LEU:HD22	1:k:522:LEU:HD12	2.00	0.44
1:l:271:ASP:O	1:l:349:CYS:HA	2.18	0.44
1:l:504:ALA:HA	1:l:505:PRO:HA	1.86	0.44
1:o:271:ASP:O	1:o:349:CYS:HA	2.18	0.44
1:q:575:ALA:HA	1:r:482:ASN:ND2	2.32	0.44
1:q:704:GLY:HA2	1:y:247:TYR:O	2.18	0.44
1:t:346:HIS:CD2	1:v:431:VAL:HG23	2.52	0.44
1:w:522:LEU:HD12	1:y:435:LEU:HD22	2.00	0.44
1:x:686:TYR:HE1	1:x:710[B]:ARG:CZ	2.31	0.44
1:z:271:ASP:O	1:z:349:CYS:HA	2.18	0.44
1:3:302:LYS:HB3	1:3:665:THR:HG22	2.00	0.44
1:5:482:ASN:ND2	1:7:575:ALA:HA	2.32	0.44
1:6:327:THR:HG22	1:6:397:ARG:HG2	1.98	0.44
1:A:346:HIS:CD2	1:I:431:VAL:HG23	2.52	0.44
1:B:504:ALA:HA	1:B:505:PRO:HA	1.85	0.44
1:C:431:VAL:HG23	1:b:346:HIS:CD2	2.53	0.44
1:D:292:TRP:CE2	1:D:675:GLU:HG2	2.53	0.44
1:D:431:VAL:HG23	1:N:346:HIS:CD2	2.53	0.44
1:F:496:LEU:HD12	1:Q:465:PRO:HB3	1.99	0.44
1:M:292:TRP:CE2	1:M:675:GLU:HG2	2.53	0.44
1:O:302:LYS:HB3	1:O:665:THR:HG22	2.00	0.44
1:T:465:PRO:HB3	1:d:496:LEU:HD12	1.99	0.44
1:W:465:PRO:HB3	1:Y:496:LEU:HD12	2.00	0.44
1:X:271:ASP:O	1:X:349:CYS:HA	2.18	0.44
1:X:351:PRO:HD3	1:X:358:PHE:CD2	2.52	0.44
1:c:346:HIS:CD2	1:p:431:VAL:HG23	2.52	0.44
1:c:441:THR:O	1:c:441:THR:HG22	2.17	0.44
1:c:609:GLU:O	1:p:419:HIS:HE1	2.01	0.44
1:f:271:ASP:O	1:f:349:CYS:HA	2.18	0.44
1:k:247:TYR:O	1:w:704:GLY:HA2	2.18	0.44
1:m:271:ASP:O	1:m:349:CYS:HA	2.18	0.44
1:o:351:PRO:HD3	1:o:358:PHE:CD2	2.52	0.44
1:q:347:GLU:OE2	1:s:450:LYS:NZ	2.29	0.44
1:r:227:ASP:OD1	1:r:228[A]:ARG:HG2	2.17	0.44
1:t:247:TYR:O	1:y:704:GLY:HA2	2.18	0.44
1:t:302:LYS:HB3	1:t:665:THR:HG22	2.00	0.44
1:u:240:PRO:HB3	1:2:643:PRO:HG2	2.00	0.44
1:w:441:THR:HG22	1:w:441:THR:O	2.17	0.44
1:x:271:ASP:O	1:x:349:CYS:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:450:LYS:NZ	1:2:347:GLU:OE2	2.28	0.44
1:5:271:ASP:O	1:5:349:CYS:HA	2.18	0.44
1:5:435:LEU:HD22	1:6:522:LEU:HD12	2.00	0.44
1:7:292:TRP:CE2	1:7:675:GLU:HG2	2.53	0.44
1:E:441:THR:O	1:E:441:THR:HG22	2.17	0.43
1:F:240:PRO:HB3	1:G:643:PRO:HG2	2.00	0.43
1:G:302:LYS:HB3	1:G:665:THR:HG22	2.00	0.43
1:H:271:ASP:O	1:H:349:CYS:HA	2.18	0.43
1:I:271:ASP:O	1:I:349:CYS:HA	2.18	0.43
1:N:553:THR:O	1:P:496:LEU:HD11	2.18	0.43
1:O:271:ASP:O	1:O:349:CYS:HA	2.18	0.43
1:P:271:ASP:O	1:P:349:CYS:HA	2.18	0.43
1:Q:240:PRO:HB3	1:S:643:PRO:HG2	1.98	0.43
1:Q:271:ASP:O	1:Q:349:CYS:HA	2.18	0.43
1:R:450:LYS:NZ	1:S:347:GLU:OE2	2.29	0.43
1:S:292:TRP:CE2	1:S:675:GLU:HG2	2.53	0.43
1:T:351:PRO:HD3	1:T:358:PHE:CD2	2.52	0.43
1:U:292:TRP:CE2	1:U:675:GLU:HG2	2.53	0.43
1:V:271:ASP:O	1:V:349:CYS:HA	2.18	0.43
1:V:351:PRO:HD3	1:V:358:PHE:CD2	2.52	0.43
1:V:709:ASP:C	1:V:710[B]:ARG:HG2	2.42	0.43
1:X:496:LEU:HD12	1:e:465:PRO:HB3	2.00	0.43
1:Y:292:TRP:CE2	1:Y:675:GLU:HG2	2.53	0.43
1:Z:242:TYR:OH	1:Z:360:LEU:O	2.35	0.43
1:Z:496:LEU:HD12	1:3:465:PRO:HB3	2.00	0.43
1:Z:684:ILE:HD11	1:4:381:PRO:HB2	2.00	0.43
1:a:271:ASP:O	1:a:349:CYS:HA	2.18	0.43
1:d:228[A]:ARG:HD2	1:d:669:GLU:OE2	2.18	0.43
1:f:609:GLU:O	1:g:419:HIS:HE1	2.01	0.43
1:f:684:ILE:HD11	1:h:381:PRO:HB2	1.99	0.43
1:h:292:TRP:CE2	1:h:675:GLU:HG2	2.53	0.43
1:i:496:LEU:HD12	1:k:465:PRO:HB3	2.00	0.43
1:i:609:GLU:O	1:k:419:HIS:HE1	2.01	0.43
1:j:686:TYR:CE1	1:j:710[B]:ARG:NH2	2.86	0.43
1:l:302:LYS:HB3	1:l:665:THR:HG22	2.00	0.43
1:m:351:PRO:HD3	1:m:358:PHE:CD2	2.52	0.43
1:n:302:LYS:HB3	1:n:665:THR:HG22	2.00	0.43
1:r:292:TRP:CE2	1:r:675:GLU:HG2	2.53	0.43
1:t:242:TYR:OH	1:t:360:LEU:O	2.35	0.43
1:3:271:ASP:O	1:3:349:CYS:HA	2.18	0.43
1:5:496:LEU:HD12	1:7:465:PRO:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:575:ALA:HA	1:6:482:ASN:ND2	2.32	0.43
1:B:347:GLU:OE2	1:L:450:LYS:NZ	2.29	0.43
1:C:302:LYS:HB3	1:C:665:THR:HG22	2.00	0.43
1:G:240:PRO:HB3	1:W:643:PRO:HG2	1.99	0.43
1:H:302:LYS:HB3	1:H:665:THR:HG22	2.00	0.43
1:H:496:LEU:HD11	1:Y:553:THR:O	2.18	0.43
1:H:522:LEU:HD12	1:Y:435:LEU:HD22	1.98	0.43
1:J:271:ASP:O	1:J:349:CYS:HA	2.18	0.43
1:L:292:TRP:CE2	1:L:675:GLU:HG2	2.53	0.43
1:P:240:PRO:HB3	1:Q:643:PRO:HG2	1.99	0.43
1:R:302:LYS:HB3	1:R:665:THR:HG22	2.00	0.43
1:S:684:ILE:HD11	1:U:381:PRO:HB2	2.00	0.43
1:U:302:LYS:HB3	1:U:665:THR:HG22	2.00	0.43
1:U:351:PRO:HD3	1:U:358:PHE:CD2	2.52	0.43
1:W:292:TRP:CE2	1:W:675:GLU:HG2	2.53	0.43
1:X:441:THR:O	1:X:441:THR:HG22	2.17	0.43
1:Z:351:PRO:HD3	1:Z:358:PHE:CD2	2.52	0.43
1:Z:435:LEU:HD22	1:4:522:LEU:HD12	2.01	0.43
1:a:678:LYS:HD3	1:8:391:PHE:CE1	2.52	0.43
1:d:302:LYS:HB3	1:d:665:THR:HG22	2.00	0.43
1:g:481:ASN:HB3	1:h:441:THR:HG21	1.99	0.43
1:i:465:PRO:HB3	1:j:496:LEU:HD12	2.00	0.43
1:k:292:TRP:CE2	1:k:675:GLU:HG2	2.53	0.43
1:o:465:PRO:HB3	1:p:496:LEU:HD12	2.01	0.43
1:p:351:PRO:HD3	1:p:358:PHE:CD2	2.52	0.43
1:q:302:LYS:HB3	1:q:665:THR:HG22	2.00	0.43
1:s:302:LYS:HB3	1:s:665:THR:HG22	2.00	0.43
1:t:482:ASN:ND2	1:v:575:ALA:HA	2.32	0.43
1:u:271:ASP:O	1:u:349:CYS:HA	2.18	0.43
1:z:431:VAL:HG23	1:1:346:HIS:CD2	2.53	0.43
1:2:271:ASP:O	1:2:349:CYS:HA	2.18	0.43
1:3:346:HIS:CD2	1:4:431:VAL:HG23	2.53	0.43
1:3:496:LEU:HD12	1:4:465:PRO:HB3	2.01	0.43
1:4:292:TRP:CE2	1:4:675:GLU:HG2	2.53	0.43
1:5:302:LYS:HB3	1:5:665:THR:HG22	2.00	0.43
1:5:346:HIS:CD2	1:7:431:VAL:HG23	2.53	0.43
1:B:271:ASP:O	1:B:349:CYS:HA	2.18	0.43
1:C:292:TRP:CE2	1:C:675:GLU:HG2	2.53	0.43
1:C:643:PRO:HG2	1:D:240:PRO:HB3	2.00	0.43
1:D:302:LYS:HB3	1:D:665:THR:HG22	2.00	0.43
1:I:292:TRP:CE2	1:I:675:GLU:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:292:TRP:CE2	1:K:675:GLU:HG2	2.53	0.43
1:K:647:PHE:HA	1:7:359:MET:HE3	2.00	0.43
1:M:496:LEU:HD12	1:b:465:PRO:HB3	2.01	0.43
1:T:240:PRO:HB3	1:U:643:PRO:HG2	1.99	0.43
1:V:431:VAL:HG23	1:e:346:HIS:CD2	2.53	0.43
1:c:431:VAL:HG23	1:o:346:HIS:CD2	2.53	0.43
1:d:431:VAL:HG23	1:l:346:HIS:CD2	2.53	0.43
1:e:271:ASP:O	1:e:349:CYS:HA	2.18	0.43
1:f:496:LEU:HD12	1:g:465:PRO:HB3	2.00	0.43
1:g:292:TRP:CE2	1:g:675:GLU:HG2	2.53	0.43
1:i:690[B]:PHE:CE1	1:l:684:ILE:HG23	2.53	0.43
1:m:292:TRP:CE2	1:m:675:GLU:HG2	2.53	0.43
1:o:441:THR:HG22	1:o:441:THR:O	2.17	0.43
1:p:271:ASP:O	1:p:349:CYS:HA	2.18	0.43
1:q:609:GLU:O	1:s:419:HIS:HE1	2.02	0.43
1:s:292:TRP:CE2	1:s:675:GLU:HG2	2.53	0.43
1:s:351:PRO:HD3	1:s:358:PHE:CD2	2.52	0.43
1:t:240:PRO:HB3	1:6:643:PRO:HG2	1.99	0.43
1:t:292:TRP:CE2	1:t:675:GLU:HG2	2.53	0.43
1:t:465:PRO:HB3	1:u:496:LEU:HD12	2.00	0.43
1:t:610:THR:HA	1:v:593:GLN:HE22	1.83	0.43
1:u:209:ASP:HB2	1:5:213:GLN:NE2	2.34	0.43
1:u:292:TRP:CE2	1:u:675:GLU:HG2	2.53	0.43
1:v:209:ASP:HB2	1:1:213:GLN:NE2	2.33	0.43
1:x:367:THR:HG21	1:x:384:ALA:N	2.25	0.43
1:x:575:ALA:HA	1:y:482:ASN:ND2	2.32	0.43
1:z:292:TRP:CE2	1:z:675:GLU:HG2	2.53	0.43
1:5:686:TYR:HE1	1:5:710[A]:ARG:CZ	2.31	0.43
1:C:504:ALA:HA	1:C:505:PRO:HA	1.85	0.43
1:C:684:ILE:HD11	1:b:381:PRO:HB2	2.01	0.43
1:E:289:ASN:O	1:E:717:LEU:HD11	2.19	0.43
1:E:496:LEU:HD12	1:F:465:PRO:HB3	1.99	0.43
1:G:292:TRP:CE2	1:G:675:GLU:HG2	2.53	0.43
1:G:431:VAL:HG23	1:I:346:HIS:CD2	2.53	0.43
1:K:593:GLN:NE2	1:a:610:THR:HA	2.33	0.43
1:L:289:ASN:O	1:L:717:LEU:HD11	2.19	0.43
1:N:292:TRP:CE2	1:N:675:GLU:HG2	2.53	0.43
1:P:292:TRP:CE2	1:P:675:GLU:HG2	2.53	0.43
1:Q:292:TRP:CE2	1:Q:675:GLU:HG2	2.53	0.43
1:S:445:ASN:HB2	1:U:536:ALA:O	2.18	0.43
1:T:441:THR:HG22	1:T:441:THR:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:496:LEU:HD12	1:l:465:PRO:HB3	2.00	0.43
1:T:536:ALA:O	1:l:445:ASN:HB2	2.18	0.43
1:T:593:GLN:NE2	1:d:610:THR:HA	2.33	0.43
1:V:367:THR:HG21	1:V:384:ALA:N	2.25	0.43
1:W:301:PHE:HE1	1:W:664:MET:HE3	1.84	0.43
1:X:302:LYS:HB3	1:X:665:THR:HG22	2.00	0.43
1:c:271:ASP:O	1:c:349:CYS:HA	2.18	0.43
1:d:292:TRP:CE2	1:d:675:GLU:HG2	2.53	0.43
1:e:441:THR:HG22	1:e:441:THR:O	2.17	0.43
1:f:431:VAL:HG23	1:h:346:HIS:CD2	2.53	0.43
1:h:242:TYR:OH	1:h:360:LEU:O	2.35	0.43
1:i:271:ASP:O	1:i:349:CYS:HA	2.18	0.43
1:i:292:TRP:CE2	1:i:675:GLU:HG2	2.53	0.43
1:n:292:TRP:CE2	1:n:675:GLU:HG2	2.53	0.43
1:t:704:GLY:HA2	1:6:247:TYR:O	2.18	0.43
1:w:289:ASN:O	1:w:717:LEU:HD11	2.19	0.43
1:x:435:LEU:HD22	1:y:522:LEU:HD12	2.01	0.43
1:z:465:PRO:HB3	1:1:496:LEU:HD12	2.01	0.43
1:1:271:ASP:O	1:1:349:CYS:HA	2.18	0.43
1:2:302:LYS:HB3	1:2:665:THR:HG22	2.00	0.43
1:5:431:VAL:HG23	1:6:346:HIS:CD2	2.52	0.43
1:6:292:TRP:CE2	1:6:675:GLU:HG2	2.53	0.43
1:6:301:PHE:HE1	1:6:664:MET:HE3	1.84	0.43
1:8:351:PRO:HD3	1:8:358:PHE:CD2	2.52	0.43
1:A:271:ASP:O	1:A:349:CYS:HA	2.18	0.43
1:A:553:THR:O	1:G:496:LEU:HD11	2.18	0.43
1:C:271:ASP:O	1:C:349:CYS:HA	2.18	0.43
1:D:496:LEU:HD12	1:P:465:PRO:HB3	1.99	0.43
1:E:522:LEU:HD12	1:F:435:LEU:HD22	2.00	0.43
1:G:242:TYR:OH	1:G:360:LEU:O	2.35	0.43
1:G:678:LYS:HD3	1:I:391:PHE:CE1	2.52	0.43
1:H:431:VAL:HG23	1:W:346:HIS:CD2	2.52	0.43
1:J:302:LYS:HB3	1:J:665:THR:HG22	2.00	0.43
1:K:302:LYS:HB3	1:K:665:THR:HG22	2.00	0.43
1:K:553:THR:O	1:a:496:LEU:HD11	2.18	0.43
1:M:242:TYR:OH	1:M:360:LEU:O	2.35	0.43
1:N:271:ASP:O	1:N:349:CYS:HA	2.18	0.43
1:T:292:TRP:CE2	1:T:675:GLU:HG2	2.53	0.43
1:V:441:THR:O	1:V:441:THR:HG22	2.17	0.43
1:W:302:LYS:HB3	1:W:665:THR:HG22	2.00	0.43
1:Z:292:TRP:CE2	1:Z:675:GLU:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:575:ALA:HA	1:4:482:ASN:ND2	2.33	0.43
1:g:271:ASP:O	1:g:349:CYS:HA	2.18	0.43
1:g:302:LYS:HB3	1:g:665:THR:HG22	2.00	0.43
1:k:302:LYS:HB3	1:k:665:THR:HG22	2.00	0.43
1:m:441:THR:HG22	1:m:441:THR:O	2.17	0.43
1:o:302:LYS:HB3	1:o:665:THR:HG22	2.00	0.43
1:p:367:THR:HG21	1:p:384:ALA:N	2.25	0.43
1:v:247:TYR:O	1:l:704:GLY:HA2	2.18	0.43
1:x:292:TRP:CE2	1:x:675:GLU:HG2	2.53	0.43
1:y:289:ASN:O	1:y:717:LEU:HD11	2.19	0.43
1:z:289:ASN:O	1:z:717:LEU:HD11	2.19	0.43
1:1:504:ALA:HA	1:1:505:PRO:HA	1.85	0.43
1:4:302:LYS:HB3	1:4:665:THR:HG22	2.00	0.43
1:5:242:TYR:OH	1:5:360:LEU:O	2.35	0.43
1:5:686:TYR:CE1	1:5:710[A]:ARG:CZ	3.01	0.43
1:6:271:ASP:O	1:6:349:CYS:HA	2.18	0.43
1:6:419:HIS:HE1	1:7:609:GLU:O	2.01	0.43
1:8:292:TRP:CE2	1:8:675:GLU:HG2	2.53	0.43
1:A:290:ASN:HD21	1:F:290:ASN:HD21	1.65	0.43
1:A:522:LEU:HD12	1:I:435:LEU:HD22	2.00	0.43
1:C:301:PHE:HE1	1:C:664:MET:HE3	1.84	0.43
1:D:290:ASN:HD21	1:M:290:ASN:HD21	1.67	0.43
1:E:465:PRO:HB3	1:Q:496:LEU:HD12	1.99	0.43
1:F:289:ASN:O	1:F:717:LEU:HD11	2.19	0.43
1:H:242:TYR:OH	1:H:360:LEU:O	2.35	0.43
1:J:276:HIS:HB3	1:J:599:LEU:HG	2.01	0.43
1:M:271:ASP:O	1:M:349:CYS:HA	2.18	0.43
1:M:381:PRO:HB2	1:b:684:ILE:HD11	1.99	0.43
1:N:302:LYS:HB3	1:N:665:THR:HG22	2.00	0.43
1:S:435:LEU:HD22	1:U:522:LEU:HD12	2.01	0.43
1:T:301:PHE:HE1	1:T:664:MET:HE3	1.84	0.43
1:U:271:ASP:O	1:U:349:CYS:HA	2.18	0.43
1:W:289:ASN:O	1:W:717:LEU:HD11	2.19	0.43
1:a:292:TRP:CE2	1:a:675:GLU:HG2	2.53	0.43
1:a:431:VAL:HG23	1:8:346:HIS:CD2	2.53	0.43
1:c:289:ASN:O	1:c:717:LEU:HD11	2.19	0.43
1:c:292:TRP:CE2	1:c:675:GLU:HG2	2.53	0.43
1:c:496:LEU:HD12	1:p:465:PRO:HB3	2.00	0.43
1:f:504:ALA:HA	1:f:505:PRO:HA	1.85	0.43
1:g:301:PHE:HE1	1:g:664:MET:HE3	1.84	0.43
1:h:271:ASP:O	1:h:349:CYS:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:302:LYS:HB3	1:i:665:THR:HG22	2.00	0.43
1:j:242:TYR:OH	1:j:360:LEU:O	2.35	0.43
1:j:292:TRP:CE2	1:j:675:GLU:HG2	2.53	0.43
1:l:289:ASN:O	1:l:717:LEU:HD11	2.19	0.43
1:m:289:ASN:O	1:m:717:LEU:HD11	2.19	0.43
1:p:292:TRP:CE2	1:p:675:GLU:HG2	2.53	0.43
1:s:271:ASP:O	1:s:349:CYS:HA	2.18	0.43
1:t:301:PHE:HE1	1:t:664:MET:HE3	1.84	0.43
1:v:289:ASN:O	1:v:717:LEU:HD11	2.19	0.43
1:x:686:TYR:CD1	1:x:710[B]:ARG:NH2	2.87	0.43
1:2:276:HIS:HB3	1:2:599:LEU:HG	2.01	0.43
1:3:292:TRP:CE2	1:3:675:GLU:HG2	2.53	0.43
1:6:289:ASN:O	1:6:717:LEU:HD11	2.19	0.43
1:A:289:ASN:O	1:A:717:LEU:HD11	2.19	0.43
1:B:431:VAL:HG23	1:J:346:HIS:CD2	2.53	0.43
1:C:690[A]:PHE:CZ	1:C:691:ASN:OD1	2.72	0.43
1:E:496:LEU:HD11	1:F:553:THR:O	2.18	0.43
1:H:359:MET:HE3	1:I:647:PHE:HA	2.00	0.43
1:O:289:ASN:O	1:O:717:LEU:HD11	2.19	0.43
1:P:242:TYR:OH	1:P:360:LEU:O	2.35	0.43
1:P:289:ASN:O	1:P:717:LEU:HD11	2.19	0.43
1:P:359:MET:HE3	1:Q:647:PHE:HA	2.00	0.43
1:Q:367:THR:HG21	1:Q:384:ALA:N	2.25	0.43
1:R:435:LEU:HD22	1:S:522:LEU:HD12	2.01	0.43
1:S:271:ASP:O	1:S:349:CYS:HA	2.18	0.43
1:T:289:ASN:O	1:T:717:LEU:HD11	2.19	0.43
1:W:271:ASP:O	1:W:349:CYS:HA	2.18	0.43
1:W:290:ASN:HD21	1:X:290:ASN:HD21	1.67	0.43
1:Z:271:ASP:O	1:Z:349:CYS:HA	2.18	0.43
1:d:504:ALA:HA	1:d:505:PRO:HA	1.86	0.43
1:e:292:TRP:CE2	1:e:675:GLU:HG2	2.53	0.43
1:e:418:MET:O	1:e:718:THR:HA	2.19	0.43
1:f:289:ASN:O	1:f:717:LEU:HD11	2.19	0.43
1:h:240:PRO:HB3	1:i:643:PRO:HG2	2.00	0.43
1:i:242:TYR:OH	1:i:360:LEU:O	2.35	0.43
1:i:367:THR:HG21	1:i:384:ALA:N	2.25	0.43
1:m:301:PHE:HE1	1:m:664:MET:HE3	1.84	0.43
1:m:435:LEU:HD22	1:n:522:LEU:HD12	2.01	0.43
1:p:441:THR:O	1:p:441:THR:HG22	2.17	0.43
1:q:496:LEU:HD12	1:s:465:PRO:HB3	2.01	0.43
1:r:271:ASP:O	1:r:349:CYS:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:686:TYR:CD1	1:r:710[B]:ARG:NH2	2.86	0.43
1:u:276:HIS:HB3	1:u:599:LEU:HG	2.01	0.43
1:u:686:TYR:HE1	1:u:710[B]:ARG:CZ	2.31	0.43
1:x:289:ASN:O	1:x:717:LEU:HD11	2.19	0.43
1:x:302:LYS:HB3	1:x:665:THR:HG22	2.00	0.43
1:z:302:LYS:HB3	1:z:665:THR:HG22	2.00	0.43
1:4:289:ASN:O	1:4:717:LEU:HD11	2.19	0.43
1:6:242:TYR:OH	1:6:360:LEU:O	2.35	0.43
1:6:302:LYS:HB3	1:6:665:THR:HG22	2.00	0.43
1:B:292:TRP:CE2	1:B:675:GLU:HG2	2.53	0.43
1:B:643:PRO:HG2	1:C:240:PRO:HB3	2.01	0.43
1:D:496:LEU:HD11	1:P:553:THR:O	2.18	0.43
1:D:647:PHE:HA	1:E:359:MET:HE3	2.01	0.43
1:F:292:TRP:CE2	1:F:675:GLU:HG2	2.53	0.43
1:G:301:PHE:HE1	1:G:664:MET:HE3	1.84	0.43
1:J:292:TRP:CE2	1:J:675:GLU:HG2	2.53	0.43
1:K:289:ASN:O	1:K:717:LEU:HD11	2.19	0.43
1:M:522:LEU:HD12	1:b:435:LEU:HD22	1.99	0.43
1:O:431:VAL:HG23	1:m:346:HIS:CD2	2.53	0.43
1:O:496:LEU:HD12	1:n:465:PRO:HB3	1.99	0.43
1:Q:289:ASN:O	1:Q:717:LEU:HD11	2.19	0.43
1:V:292:TRP:CE2	1:V:675:GLU:HG2	2.53	0.43
1:V:418:MET:O	1:V:718:THR:HA	2.19	0.43
1:V:684:ILE:HD11	1:e:381:PRO:HB2	2.01	0.43
1:X:292:TRP:CE2	1:X:675:GLU:HG2	2.53	0.43
1:Z:301:PHE:HE1	1:Z:664:MET:HE3	1.84	0.43
1:c:418:MET:O	1:c:718:THR:HA	2.19	0.43
1:d:418:MET:O	1:d:718:THR:HA	2.19	0.43
1:e:289:ASN:O	1:e:717:LEU:HD11	2.19	0.43
1:g:289:ASN:O	1:g:717:LEU:HD11	2.19	0.43
1:g:609:GLU:O	1:h:419:HIS:HE1	2.02	0.43
1:j:289:ASN:O	1:j:717:LEU:HD11	2.19	0.43
1:j:301:PHE:HE1	1:j:664:MET:HE3	1.84	0.43
1:o:292:TRP:CE2	1:o:675:GLU:HG2	2.53	0.43
1:p:418:MET:O	1:p:718:THR:HA	2.19	0.43
1:q:346:HIS:CD2	1:s:431:VAL:HG23	2.53	0.43
1:t:209:ASP:HB2	1:y:213:GLN:NE2	2.34	0.43
1:t:496:LEU:HD12	1:v:465:PRO:HB3	2.01	0.43
1:y:271:ASP:O	1:y:349:CYS:HA	2.18	0.43
1:z:419:HIS:HE1	1:l:609:GLU:O	2.02	0.43
1:l:292:TRP:CE2	1:l:675:GLU:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:609:GLU:O	1:7:419:HIS:HE1	2.02	0.43
1:A:276:HIS:HB3	1:A:599:LEU:HG	2.01	0.43
1:A:504:ALA:HA	1:A:505:PRO:HA	1.85	0.43
1:B:289:ASN:O	1:B:717:LEU:HD11	2.19	0.43
1:C:289:ASN:O	1:C:717:LEU:HD11	2.19	0.43
1:D:418:MET:O	1:D:718:THR:HA	2.19	0.43
1:E:302:LYS:HB3	1:E:665:THR:HG22	2.00	0.43
1:F:271:ASP:O	1:F:349:CYS:HA	2.18	0.43
1:H:301:PHE:HE1	1:H:664:MET:HE3	1.84	0.43
1:H:610:THR:HA	1:Y:593:GLN:NE2	2.34	0.43
1:I:276:HIS:HB3	1:I:599:LEU:HG	2.01	0.43
1:I:301:PHE:HE1	1:I:664:MET:HE3	1.84	0.43
1:J:289:ASN:O	1:J:717:LEU:HD11	2.19	0.43
1:J:593:GLN:NE2	1:L:610:THR:HA	2.34	0.43
1:K:536:ALA:O	1:8:445:ASN:HB2	2.18	0.43
1:L:302:LYS:HB3	1:L:665:THR:HG22	2.00	0.43
1:M:647:PHE:HA	1:c:359:MET:HE3	2.00	0.43
1:N:242:TYR:OH	1:N:360:LEU:O	2.35	0.43
1:N:593:GLN:NE2	1:P:610:THR:HA	2.34	0.43
1:O:301:PHE:HE1	1:O:664:MET:HE3	1.84	0.43
1:P:301:PHE:HE1	1:P:664:MET:HE3	1.84	0.43
1:Q:302:LYS:HB3	1:Q:665:THR:HG22	2.00	0.43
1:R:347:GLU:OE2	1:U:450:LYS:NZ	2.29	0.43
1:S:441:THR:O	1:S:441:THR:HG22	2.17	0.43
1:T:418:MET:O	1:T:718:THR:HA	2.19	0.43
1:W:431:VAL:HG23	1:Y:346:HIS:CD2	2.53	0.43
1:X:242:TYR:OH	1:X:360:LEU:O	2.35	0.43
1:X:418:MET:O	1:X:718:THR:HA	2.19	0.43
1:Z:276:HIS:HB3	1:Z:599:LEU:HG	2.01	0.43
1:a:289:ASN:O	1:a:717:LEU:HD11	2.19	0.43
1:a:301:PHE:HE1	1:a:664:MET:HE3	1.84	0.43
1:b:289:ASN:O	1:b:717:LEU:HD11	2.19	0.43
1:c:346:HIS:HD2	1:p:431:VAL:O	2.02	0.43
1:c:536:ALA:O	1:p:445:ASN:HB2	2.18	0.43
1:d:465:PRO:HB3	1:l:496:LEU:HD12	2.00	0.43
1:h:302:LYS:HB3	1:h:665:THR:HG22	2.00	0.43
1:i:536:ALA:O	1:k:445:ASN:HB2	2.19	0.43
1:j:686:TYR:HE1	1:j:710[A]:ARG:CZ	2.31	0.43
1:k:418:MET:O	1:k:718:THR:HA	2.19	0.43
1:m:418:MET:O	1:m:718:THR:HA	2.19	0.43
1:n:418:MET:O	1:n:718:THR:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:418:MET:O	1:o:718:THR:HA	2.19	0.43
1:p:301:PHE:HE1	1:p:664:MET:HE3	1.84	0.43
1:u:247:TYR:O	1:5:704:GLY:HA2	2.19	0.43
1:u:686:TYR:HE1	1:u:710[A]:ARG:NH2	2.15	0.43
1:v:271:ASP:O	1:v:349:CYS:HA	2.18	0.43
1:v:292:TRP:CE2	1:v:675:GLU:HG2	2.53	0.43
1:w:418:MET:O	1:w:718:THR:HA	2.19	0.43
1:2:289:ASN:O	1:2:717:LEU:HD11	2.19	0.43
1:2:292:TRP:CE2	1:2:675:GLU:HG2	2.53	0.43
1:3:289:ASN:O	1:3:717:LEU:HD11	2.19	0.43
1:3:301:PHE:HE1	1:3:664:MET:HE3	1.84	0.43
1:5:301:PHE:HE1	1:5:664:MET:HE3	1.84	0.43
1:6:276:HIS:HB3	1:6:599:LEU:HG	2.01	0.43
1:6:465:PRO:HB3	1:7:496:LEU:HD12	2.00	0.43
1:7:418:MET:O	1:7:718:THR:HA	2.19	0.43
1:8:271:ASP:O	1:8:349:CYS:HA	2.18	0.43
1:8:276:HIS:HB3	1:8:599:LEU:HG	2.01	0.43
1:A:292:TRP:CE2	1:A:675:GLU:HG2	2.53	0.43
1:A:301:PHE:HE1	1:A:664:MET:HE3	1.84	0.43
1:B:553:THR:O	1:J:496:LEU:HD11	2.19	0.43
1:C:249:GLN:NE2	1:C:261:PHE:HE1	2.17	0.43
1:C:276:HIS:HB3	1:C:599:LEU:HG	2.01	0.43
1:D:289:ASN:O	1:D:717:LEU:HD11	2.19	0.43
1:E:290:ASN:HD21	1:P:290:ASN:HD21	1.66	0.43
1:E:418:MET:O	1:E:718:THR:HA	2.19	0.43
1:H:367:THR:HG21	1:H:384:ALA:N	2.25	0.43
1:H:450:LYS:NZ	1:W:347:GLU:OE2	2.29	0.43
1:I:418:MET:O	1:I:718:THR:HA	2.19	0.43
1:K:271:ASP:O	1:K:349:CYS:HA	2.18	0.43
1:L:249:GLN:NE2	1:L:261:PHE:HE1	2.17	0.43
1:M:249:GLN:NE2	1:M:261:PHE:HE1	2.17	0.43
1:M:289:ASN:O	1:M:717:LEU:HD11	2.19	0.43
1:O:684:ILE:HD11	1:m:381:PRO:HB2	2.00	0.43
1:R:441:THR:HG22	1:R:441:THR:O	2.17	0.43
1:V:228[B]:ARG:HG2	1:V:669:GLU:OE2	2.19	0.43
1:W:276:HIS:HB3	1:W:599:LEU:HG	2.01	0.43
1:Y:302:LYS:HB3	1:Y:665:THR:HG22	2.00	0.43
1:Y:418:MET:O	1:Y:718:THR:HA	2.19	0.43
1:Z:289:ASN:O	1:Z:717:LEU:HD11	2.19	0.43
1:Z:593:GLN:NE2	1:4:610:THR:HA	2.34	0.43
1:Z:647:PHE:HA	1:a:359:MET:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:429:PRO:HB3	1:8:366:LEU:HD23	2.00	0.43
1:a:465:PRO:HB3	1:8:496:LEU:HD12	2.00	0.43
1:c:301:PHE:HE1	1:c:664:MET:HE3	1.84	0.43
1:f:249:GLN:NE2	1:f:261:PHE:HE1	2.17	0.43
1:g:249:GLN:NE2	1:g:261:PHE:HE1	2.17	0.43
1:g:276:HIS:HB3	1:g:599:LEU:HG	2.01	0.43
1:g:366:LEU:HD23	1:h:429:PRO:HB3	2.01	0.43
1:g:504:ALA:HA	1:g:505:PRO:HA	1.86	0.43
1:h:249:GLN:NE2	1:h:261:PHE:HE1	2.17	0.43
1:i:419:HIS:HE1	1:j:609:GLU:O	2.02	0.43
1:k:289:ASN:O	1:k:717:LEU:HD11	2.19	0.43
1:l:301:PHE:HE1	1:l:664:MET:HE3	1.84	0.43
1:o:429:PRO:HB3	1:p:366:LEU:HD23	2.01	0.43
1:r:441:THR:HG22	1:r:441:THR:O	2.17	0.43
1:t:289:ASN:O	1:t:717:LEU:HD11	2.19	0.43
1:u:301:PHE:HE1	1:u:664:MET:HE3	1.84	0.43
1:u:418:MET:O	1:u:718:THR:HA	2.19	0.43
1:v:276:HIS:HB3	1:v:599:LEU:HG	2.01	0.43
1:w:302:LYS:HB3	1:w:665:THR:HG22	2.00	0.43
1:w:465:PRO:HB3	1:x:496:LEU:HD12	2.00	0.43
1:x:242:TYR:OH	1:x:360:LEU:O	2.35	0.43
1:y:292:TRP:CE2	1:y:675:GLU:HG2	2.53	0.43
1:z:496:LEU:HD12	1:2:465:PRO:HB3	2.00	0.43
1:4:271:ASP:O	1:4:349:CYS:HA	2.18	0.43
1:5:367:THR:HG21	1:5:384:ALA:N	2.25	0.43
1:5:686:TYR:CE1	1:5:710[B]:ARG:NH2	2.86	0.43
1:7:302:LYS:HB3	1:7:665:THR:HG22	2.00	0.43
1:8:301:PHE:HE1	1:8:664:MET:HE3	1.84	0.43
1:A:302:LYS:HB3	1:A:665:THR:HG22	2.00	0.42
1:B:249:GLN:NE2	1:B:261:PHE:HE1	2.17	0.42
1:G:418:MET:O	1:G:718:THR:HA	2.19	0.42
1:G:553:THR:O	1:I:496:LEU:HD11	2.19	0.42
1:H:292:TRP:CE2	1:H:675:GLU:HG2	2.53	0.42
1:M:276:HIS:HB3	1:M:599:LEU:HG	2.01	0.42
1:N:276:HIS:HB3	1:N:599:LEU:HG	2.01	0.42
1:N:301:PHE:HE1	1:N:664:MET:HE3	1.84	0.42
1:P:371:PRO:HA	1:P:376:ASN:HA	2.01	0.42
1:T:553:THR:O	1:d:496:LEU:HD11	2.19	0.42
1:U:418:MET:O	1:U:718:THR:HA	2.19	0.42
1:V:647:PHE:HA	1:W:359:MET:HE3	2.00	0.42
1:W:242:TYR:OH	1:W:360:LEU:O	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:301:PHE:HE1	1:Y:664:MET:HE3	1.84	0.42
1:b:418:MET:O	1:b:718:THR:HA	2.19	0.42
1:c:647:PHE:HA	1:s:359:MET:HE3	2.01	0.42
1:e:301:PHE:HE1	1:e:664:MET:HE3	1.84	0.42
1:f:346:HIS:HD2	1:g:431:VAL:O	2.02	0.42
1:f:647:PHE:HA	1:z:359:MET:HE3	2.01	0.42
1:h:276:HIS:HB3	1:h:599:LEU:HG	2.01	0.42
1:i:249:GLN:NE2	1:i:261:PHE:HE1	2.18	0.42
1:i:301:PHE:HE1	1:i:664:MET:HE3	1.84	0.42
1:j:371:PRO:HA	1:j:376:ASN:HA	2.01	0.42
1:n:504:ALA:HA	1:n:505:PRO:HA	1.85	0.42
1:q:441:THR:O	1:q:441:THR:HG22	2.17	0.42
1:s:418:MET:O	1:s:718:THR:HA	2.19	0.42
1:t:418:MET:O	1:t:718:THR:HA	2.19	0.42
1:u:465:PRO:HB3	1:v:496:LEU:HD12	2.01	0.42
1:v:301:PHE:HE1	1:v:664:MET:HE3	1.84	0.42
1:v:693:SER:O	1:w:379:SER:N	2.45	0.42
1:w:292:TRP:CE2	1:w:675:GLU:HG2	2.53	0.42
1:x:465:PRO:HB3	1:y:496:LEU:HD12	2.01	0.42
1:z:249:GLN:NE2	1:z:261:PHE:HE1	2.17	0.42
1:1:249:GLN:NE2	1:1:261:PHE:HE1	2.17	0.42
1:1:289:ASN:O	1:1:717:LEU:HD11	2.19	0.42
1:7:242:TYR:OH	1:7:360:LEU:O	2.35	0.42
1:7:301:PHE:HE1	1:7:664:MET:HE3	1.84	0.42
1:8:289:ASN:O	1:8:717:LEU:HD11	2.19	0.42
1:C:647:PHE:HA	1:D:359:MET:HE3	2.00	0.42
1:E:292:TRP:CE2	1:E:675:GLU:HG2	2.53	0.42
1:E:301:PHE:HE1	1:E:664:MET:HE3	1.84	0.42
1:G:289:ASN:O	1:G:717:LEU:HD11	2.19	0.42
1:J:301:PHE:HE1	1:J:664:MET:HE3	1.84	0.42
1:M:302:LYS:HB3	1:M:665:THR:HG22	2.00	0.42
1:N:249:GLN:NE2	1:N:261:PHE:HE1	2.18	0.42
1:N:367:THR:HG21	1:N:384:ALA:N	2.25	0.42
1:O:292:TRP:CE2	1:O:675:GLU:HG2	2.53	0.42
1:Q:242:TYR:OH	1:Q:360:LEU:O	2.35	0.42
1:S:371:PRO:HA	1:S:376:ASN:HA	2.02	0.42
1:T:647:PHE:HA	1:i:359:MET:HE3	2.00	0.42
1:V:301:PHE:HE1	1:V:664:MET:HE3	1.84	0.42
1:W:371:PRO:HA	1:W:376:ASN:HA	2.01	0.42
1:X:643:PRO:HG2	1:f:240:PRO:HB3	2.01	0.42
1:Y:289:ASN:O	1:Y:717:LEU:HD11	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:249:GLN:NE2	1:b:261:PHE:HE1	2.18	0.42
1:b:292:TRP:CE2	1:b:675:GLU:HG2	2.53	0.42
1:c:276:HIS:HB3	1:c:599:LEU:HG	2.01	0.42
1:e:276:HIS:HB3	1:e:599:LEU:HG	2.01	0.42
1:f:292:TRP:CE2	1:f:675:GLU:HG2	2.53	0.42
1:f:418:MET:O	1:f:718:THR:HA	2.19	0.42
1:g:496:LEU:HD12	1:h:465:PRO:HB3	2.01	0.42
1:g:704:GLY:HA2	1:i:247:TYR:O	2.19	0.42
1:l:292:TRP:CE2	1:l:675:GLU:HG2	2.53	0.42
1:p:247:TYR:O	1:6:704:GLY:HA2	2.19	0.42
1:p:289:ASN:O	1:p:717:LEU:HD11	2.19	0.42
1:q:292:TRP:CE2	1:q:675:GLU:HG2	2.53	0.42
1:r:242:TYR:OH	1:r:360:LEU:O	2.35	0.42
1:r:371:PRO:HA	1:r:376:ASN:HA	2.02	0.42
1:r:445:ASN:HB2	1:s:536:ALA:O	2.19	0.42
1:v:504:ALA:HA	1:v:505:PRO:HA	1.85	0.42
1:2:301:PHE:HE1	1:2:664:MET:HE3	1.84	0.42
1:5:292:TRP:CE2	1:5:675:GLU:HG2	2.53	0.42
1:6:418:MET:O	1:6:718:THR:HA	2.19	0.42
1:7:289:ASN:O	1:7:717:LEU:HD11	2.19	0.42
1:C:290:ASN:HD21	1:L:290:ASN:HD21	1.67	0.42
1:C:637:THR:HG21	1:D:663:GLN:NE2	2.35	0.42
1:E:553:THR:O	1:Q:496:LEU:HD11	2.19	0.42
1:F:371:PRO:HA	1:F:376:ASN:HA	2.01	0.42
1:F:643:PRO:HG2	1:R:240:PRO:HB3	2.01	0.42
1:H:418:MET:O	1:H:718:THR:HA	2.19	0.42
1:J:249:GLN:NE2	1:J:261:PHE:HE1	2.17	0.42
1:J:371:PRO:HA	1:J:376:ASN:HA	2.01	0.42
1:J:445:ASN:HB2	1:L:536:ALA:O	2.18	0.42
1:N:289:ASN:O	1:N:717:LEU:HD11	2.19	0.42
1:P:249:GLN:NE2	1:P:261:PHE:HE1	2.17	0.42
1:P:418:MET:O	1:P:718:THR:HA	2.19	0.42
1:Q:359:MET:HE3	1:S:647:PHE:HA	2.02	0.42
1:R:292:TRP:CE2	1:R:675:GLU:HG2	2.53	0.42
1:R:371:PRO:HA	1:R:376:ASN:HA	2.01	0.42
1:R:643:PRO:HG2	1:V:240:PRO:HB3	2.01	0.42
1:U:289:ASN:O	1:U:717:LEU:HD11	2.19	0.42
1:U:301:PHE:HE1	1:U:664:MET:HE3	1.84	0.42
1:V:289:ASN:O	1:V:717:LEU:HD11	2.19	0.42
1:W:418:MET:O	1:W:718:THR:HA	2.19	0.42
1:X:522:LEU:HD12	1:e:435:LEU:HD22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:536:ALA:O	1:e:445:ASN:HB2	2.18	0.42
1:Y:242:TYR:OH	1:Y:360:LEU:O	2.35	0.42
1:Z:249:GLN:NE2	1:Z:261:PHE:HE1	2.17	0.42
1:Z:643:PRO:HG2	1:a:240:PRO:HB3	2.01	0.42
1:a:242:TYR:OH	1:a:360:LEU:O	2.35	0.42
1:d:371:PRO:HA	1:d:376:ASN:HA	2.01	0.42
1:h:289:ASN:O	1:h:717:LEU:HD11	2.19	0.42
1:i:276:HIS:HB3	1:i:599:LEU:HG	2.01	0.42
1:j:213:GLN:NE2	1:x:209:ASP:HB2	2.34	0.42
1:j:418:MET:O	1:j:718:THR:HA	2.19	0.42
1:j:593:GLN:HE22	1:k:610:THR:HA	1.84	0.42
1:q:242:TYR:OH	1:q:360:LEU:O	2.35	0.42
1:q:366:LEU:HD23	1:s:429:PRO:HB3	2.01	0.42
1:q:371:PRO:HA	1:q:376:ASN:HA	2.01	0.42
1:q:465:PRO:HB3	1:r:496:LEU:HD12	2.01	0.42
1:s:289:ASN:O	1:s:717:LEU:HD11	2.19	0.42
1:s:709:ASP:C	1:s:710[B]:ARG:HG2	2.45	0.42
1:w:593:GLN:HE22	1:x:610:THR:HA	1.84	0.42
1:y:302:LYS:HB3	1:y:665:THR:HG22	2.00	0.42
1:1:302:LYS:HB3	1:1:665:THR:HG22	2.00	0.42
1:2:249:GLN:NE2	1:2:261:PHE:HE1	2.17	0.42
1:3:371:PRO:HA	1:3:376:ASN:HA	2.01	0.42
1:3:522:LEU:HD12	1:4:435:LEU:HD22	2.00	0.42
1:6:371:PRO:HA	1:6:376:ASN:HA	2.01	0.42
1:7:234:THR:OG1	1:7:664:MET:O	2.26	0.42
1:8:249:GLN:NE2	1:8:261:PHE:HE1	2.17	0.42
1:8:418:MET:O	1:8:718:THR:HA	2.19	0.42
1:B:302:LYS:HB3	1:B:665:THR:HG22	2.00	0.42
1:B:435:LEU:HD22	1:J:522:LEU:HD12	2.01	0.42
1:C:593:GLN:NE2	1:b:610:THR:HA	2.34	0.42
1:D:445:ASN:HB2	1:N:536:ALA:O	2.20	0.42
1:F:302:LYS:HB3	1:F:665:THR:HG22	2.00	0.42
1:G:290:ASN:HD21	1:H:290:ASN:HD21	1.66	0.42
1:G:663:GLN:NE2	1:W:637:THR:HG21	2.35	0.42
1:K:496:LEU:HD12	1:8:465:PRO:HB3	2.00	0.42
1:L:276:HIS:CD2	1:L:600:GLN:HA	2.55	0.42
1:O:643:PRO:HG2	1:d:240:PRO:HB3	2.02	0.42
1:R:276:HIS:HB3	1:R:599:LEU:HG	2.01	0.42
1:S:242:TYR:OH	1:S:360:LEU:O	2.35	0.42
1:T:302:LYS:HB3	1:T:665:THR:HG22	2.00	0.42
1:T:359:MET:HE3	1:U:647:PHE:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:593:GLN:NE2	1:e:610:THR:HA	2.35	0.42
1:V:610:THR:HA	1:X:593:GLN:NE2	2.35	0.42
1:X:301:PHE:HE1	1:X:664:MET:HE3	1.84	0.42
1:Z:285:GLN:HG3	1:Z:686:TYR:HD2	1.85	0.42
1:Z:371:PRO:HA	1:Z:376:ASN:HA	2.01	0.42
1:Z:418:MET:O	1:Z:718:THR:HA	2.19	0.42
1:Z:445:ASN:HB2	1:4:536:ALA:O	2.19	0.42
1:a:371:PRO:HA	1:a:376:ASN:HA	2.01	0.42
1:c:249:GLN:NE2	1:c:261:PHE:HE1	2.17	0.42
1:e:249:GLN:NE2	1:e:261:PHE:HE1	2.17	0.42
1:g:441:THR:HG22	1:g:441:THR:O	2.17	0.42
1:h:281:PRO:HB2	1:k:682:PRO:HD3	2.02	0.42
1:i:289:ASN:O	1:i:717:LEU:HD11	2.19	0.42
1:m:353:PHE:HA	1:m:354:PRO:HD3	1.94	0.42
1:n:371:PRO:HA	1:n:376:ASN:HA	2.02	0.42
1:o:249:GLN:NE2	1:o:261:PHE:HE1	2.17	0.42
1:q:276:HIS:HB3	1:q:599:LEU:HG	2.01	0.42
1:r:301:PHE:HE1	1:r:664:MET:HE3	1.84	0.42
1:s:301:PHE:HE1	1:s:664:MET:HE3	1.84	0.42
1:s:371:PRO:HA	1:s:376:ASN:HA	2.01	0.42
1:u:371:PRO:HA	1:u:376:ASN:HA	2.01	0.42
1:v:302:LYS:HB3	1:v:665:THR:HG22	2.00	0.42
1:v:371:PRO:HA	1:v:376:ASN:HA	2.01	0.42
1:w:301:PHE:HE1	1:w:664:MET:HE3	1.84	0.42
1:x:276:HIS:HB3	1:x:599:LEU:HG	2.01	0.42
1:y:371:PRO:HA	1:y:376:ASN:HA	2.01	0.42
1:z:536:ALA:O	1:2:445:ASN:HB2	2.19	0.42
1:1:301:PHE:HE1	1:1:664:MET:HE3	1.84	0.42
1:1:465:PRO:HB3	1:2:496:LEU:HD12	2.01	0.42
1:2:371:PRO:HA	1:2:376:ASN:HA	2.02	0.42
1:3:242:TYR:OH	1:3:360:LEU:O	2.35	0.42
1:5:418:MET:O	1:5:718:THR:HA	2.19	0.42
1:8:371:PRO:HA	1:8:376:ASN:HA	2.02	0.42
1:B:301:PHE:HE1	1:B:664:MET:HE3	1.84	0.42
1:C:445:ASN:HB2	1:b:536:ALA:O	2.20	0.42
1:D:301:PHE:HE1	1:D:664:MET:HE3	1.84	0.42
1:E:285:GLN:HG3	1:E:686:TYR:HD2	1.85	0.42
1:F:249:GLN:NE2	1:F:261:PHE:HE1	2.18	0.42
1:G:435:LEU:HD22	1:I:522:LEU:HD12	2.01	0.42
1:I:371:PRO:HA	1:I:376:ASN:HA	2.01	0.42
1:J:465:PRO:HB3	1:L:496:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:249:GLN:NE2	1:K:261:PHE:HE1	2.17	0.42
1:K:418:MET:O	1:K:718:THR:HA	2.19	0.42
1:M:418:MET:O	1:M:718:THR:HA	2.19	0.42
1:N:371:PRO:HA	1:N:376:ASN:HA	2.01	0.42
1:Q:276:HIS:HB3	1:Q:599:LEU:HG	2.01	0.42
1:Q:371:PRO:HA	1:Q:376:ASN:HA	2.01	0.42
1:R:242:TYR:OH	1:R:360:LEU:O	2.35	0.42
1:S:301:PHE:HE1	1:S:664:MET:HE3	1.84	0.42
1:T:371:PRO:HA	1:T:376:ASN:HA	2.01	0.42
1:U:371:PRO:HA	1:U:376:ASN:HA	2.01	0.42
1:V:249:GLN:NE2	1:V:261:PHE:HE1	2.17	0.42
1:W:429:PRO:HB3	1:Y:366:LEU:HD23	2.02	0.42
1:X:249:GLN:NE2	1:X:261:PHE:HE1	2.18	0.42
1:X:289:ASN:O	1:X:717:LEU:HD11	2.19	0.42
1:b:504:ALA:HA	1:b:505:PRO:HA	1.86	0.42
1:c:435:LEU:HD22	1:o:522:LEU:HD12	2.00	0.42
1:e:302:LYS:HB3	1:e:665:THR:HG22	2.00	0.42
1:f:435:LEU:HD22	1:h:522:LEU:HD12	2.00	0.42
1:i:371:PRO:HA	1:i:376:ASN:HA	2.01	0.42
1:j:249:GLN:NE2	1:j:261:PHE:HE1	2.18	0.42
1:o:276:HIS:HB3	1:o:599:LEU:HG	2.01	0.42
1:o:419:HIS:HE1	1:p:609:GLU:O	2.02	0.42
1:p:249:GLN:NE2	1:p:261:PHE:HE1	2.17	0.42
1:q:686:TYR:HE1	1:q:710[A]:ARG:NH2	2.18	0.42
1:t:682:PRO:HD3	1:5:281:PRO:HB2	2.01	0.42
1:u:435:LEU:HD22	1:v:522:LEU:HD12	2.01	0.42
1:x:371:PRO:HA	1:x:376:ASN:HA	2.01	0.42
1:y:249:GLN:NE2	1:y:261:PHE:HE1	2.17	0.42
1:1:593:GLN:HE22	1:2:610:THR:HA	1.84	0.42
1:4:249:GLN:NE2	1:4:261:PHE:HE1	2.17	0.42
1:5:289:ASN:O	1:5:717:LEU:HD11	2.19	0.42
1:A:371:PRO:HA	1:A:376:ASN:HA	2.02	0.42
1:C:441:THR:O	1:C:441:THR:HG22	2.17	0.42
1:E:371:PRO:HA	1:E:376:ASN:HA	2.02	0.42
1:E:435:LEU:HD22	1:Q:522:LEU:HD12	2.01	0.42
1:G:359:MET:HE3	1:W:647:PHE:HA	2.01	0.42
1:J:663:GLN:NE2	1:a:637:THR:HG21	2.35	0.42
1:O:371:PRO:HA	1:O:376:ASN:HA	2.01	0.42
1:R:553:THR:O	1:S:496:LEU:HD11	2.19	0.42
1:T:609:GLU:O	1:l:419:HIS:HE1	2.03	0.42
1:W:684:ILE:HD11	1:Y:381:PRO:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:276:HIS:HB3	1:X:599:LEU:HG	2.01	0.42
1:c:302:LYS:HB3	1:c:665:THR:HG22	2.00	0.42
1:f:301:PHE:HE1	1:f:664:MET:HE3	1.84	0.42
1:g:247:TYR:O	1:k:704:GLY:HA2	2.19	0.42
1:l:371:PRO:HA	1:l:376:ASN:HA	2.01	0.42
1:o:240:PRO:HB3	1:7:643:PRO:HG2	2.00	0.42
1:o:301:PHE:HE1	1:o:664:MET:HE3	1.84	0.42
1:r:643:PRO:HG2	1:x:240:PRO:HB3	2.00	0.42
1:t:249:GLN:NE2	1:t:261:PHE:HE1	2.17	0.42
1:t:593:GLN:HE22	1:u:610:THR:HA	1.84	0.42
1:u:593:GLN:HE22	1:v:610:THR:HA	1.84	0.42
1:u:686:TYR:CD1	1:u:710[B]:ARG:NH2	2.87	0.42
1:v:213:GLN:NE2	1:w:209:ASP:HB2	2.34	0.42
1:w:285:GLN:HG3	1:w:686:TYR:HD2	1.85	0.42
1:w:371:PRO:HA	1:w:376:ASN:HA	2.02	0.42
1:x:285:GLN:HG3	1:x:686:TYR:HD2	1.85	0.42
1:1:686:TYR:HE1	1:1:710[A]:ARG:NH2	2.18	0.42
1:2:285:GLN:HG3	1:2:686:TYR:HD2	1.85	0.42
1:4:418:MET:O	1:4:718:THR:HA	2.19	0.42
1:6:445:ASN:HB2	1:7:536:ALA:O	2.19	0.42
1:7:285:GLN:HG3	1:7:686:TYR:HD2	1.85	0.42
1:C:228[B]:ARG:HG2	1:C:669:GLU:OE2	2.19	0.42
1:C:610:THR:HA	1:M:593:GLN:NE2	2.35	0.42
1:D:637:THR:HG21	1:E:663:GLN:NE2	2.35	0.42
1:G:249:GLN:NE2	1:G:261:PHE:HE1	2.17	0.42
1:H:276:HIS:HB3	1:H:599:LEU:HG	2.01	0.42
1:H:289:ASN:O	1:H:717:LEU:HD11	2.19	0.42
1:I:441:THR:O	1:I:441:THR:HG22	2.17	0.42
1:I:663:GLN:NE2	1:J:637:THR:HG21	2.34	0.42
1:J:285:GLN:HG3	1:J:686:TYR:HD2	1.85	0.42
1:K:371:PRO:HA	1:K:376:ASN:HA	2.01	0.42
1:L:285:GLN:HG3	1:L:686:TYR:HD2	1.85	0.42
1:M:496:LEU:HD11	1:b:553:THR:O	2.19	0.42
1:N:418:MET:O	1:N:718:THR:HA	2.19	0.42
1:P:276:HIS:HB3	1:P:599:LEU:HG	2.01	0.42
1:S:593:GLN:NE2	1:U:610:THR:HA	2.34	0.42
1:U:290:ASN:HD21	1:V:290:ASN:HD21	1.67	0.42
1:V:637:THR:HG21	1:W:663:GLN:NE2	2.35	0.42
1:Z:465:PRO:HB3	1:4:496:LEU:HD12	2.00	0.42
1:b:285:GLN:HG3	1:b:686:TYR:HD2	1.85	0.42
1:f:285:GLN:HG3	1:f:686:TYR:HD2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:418:MET:O	1:h:718:THR:HA	2.19	0.42
1:i:285:GLN:HG3	1:i:686:TYR:HD2	1.85	0.42
1:i:418:MET:O	1:i:718:THR:HA	2.19	0.42
1:j:276:HIS:HB3	1:j:599:LEU:HG	2.01	0.42
1:k:285:GLN:HG3	1:k:686:TYR:HD2	1.85	0.42
1:k:301:PHE:HE1	1:k:664:MET:HE3	1.84	0.42
1:m:302:LYS:HB3	1:m:665:THR:HG22	2.00	0.42
1:m:371:PRO:HA	1:m:376:ASN:HA	2.01	0.42
1:m:419:HIS:HE1	1:n:609:GLU:O	2.03	0.42
1:m:465:PRO:HB3	1:n:496:LEU:HD12	2.00	0.42
1:o:289:ASN:O	1:o:717:LEU:HD11	2.19	0.42
1:p:704:GLY:HA2	1:q:247:TYR:O	2.19	0.42
1:q:249:GLN:NE2	1:q:261:PHE:HE1	2.17	0.42
1:r:553:THR:O	1:s:496:LEU:HD11	2.20	0.42
1:u:441:THR:HG22	1:u:441:THR:O	2.17	0.42
1:v:379:SER:N	1:1:693:SER:O	2.46	0.42
1:w:242:TYR:OH	1:w:360:LEU:O	2.35	0.42
1:w:610:THR:HA	1:y:593:GLN:HE22	1.83	0.42
1:y:418:MET:O	1:y:718:THR:HA	2.19	0.42
1:3:276:HIS:HB3	1:3:599:LEU:HG	2.01	0.42
1:3:609:GLU:O	1:4:419:HIS:HE1	2.03	0.42
1:4:301:PHE:HE1	1:4:664:MET:HE3	1.84	0.42
1:5:276:HIS:HB3	1:5:599:LEU:HG	2.01	0.42
1:D:285:GLN:HG3	1:D:686:TYR:HD2	1.85	0.42
1:F:276:HIS:HB3	1:F:599:LEU:HG	2.01	0.42
1:F:418:MET:O	1:F:718:THR:HA	2.19	0.42
1:K:359:MET:HE3	1:L:647:PHE:HA	2.01	0.42
1:K:496:LEU:HD11	1:8:553:THR:O	2.20	0.42
1:O:240:PRO:HB3	1:P:643:PRO:HG2	2.02	0.42
1:O:285:GLN:HG3	1:O:686:TYR:HD2	1.85	0.42
1:O:471:ASN:OD1	1:O:472:GLN:N	2.53	0.42
1:Q:285:GLN:HG3	1:Q:686:TYR:HD2	1.85	0.42
1:R:249:GLN:NE2	1:R:261:PHE:HE1	2.18	0.42
1:S:289:ASN:O	1:S:717:LEU:HD11	2.19	0.42
1:S:553:THR:O	1:U:496:LEU:HD11	2.20	0.42
1:U:285:GLN:HG3	1:U:686:TYR:HD2	1.85	0.42
1:V:690[A]:PHE:CZ	1:V:691:ASN:OD1	2.72	0.42
1:Y:285:GLN:HG3	1:Y:686:TYR:HD2	1.85	0.42
1:b:301:PHE:HE1	1:b:664:MET:HE3	1.84	0.42
1:c:367:THR:HG21	1:c:384:ALA:N	2.25	0.42
1:d:690[B]:PHE:HZ	1:n:684:ILE:HG23	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:276:HIS:CD2	1:e:600:GLN:HA	2.55	0.42
1:h:276:HIS:CD2	1:h:600:GLN:HA	2.55	0.42
1:h:285:GLN:HG3	1:h:686:TYR:HD2	1.85	0.42
1:j:465:PRO:HB3	1:k:496:LEU:HD12	2.01	0.42
1:l:418:MET:O	1:l:718:THR:HA	2.19	0.42
1:o:281:PRO:HB2	1:6:682:PRO:HD3	2.02	0.42
1:u:704:GLY:HA2	1:2:247:TYR:O	2.20	0.42
1:w:496:LEU:HD12	1:y:465:PRO:HB3	2.01	0.42
1:y:285:GLN:HG3	1:y:686:TYR:HD2	1.85	0.42
1:z:285:GLN:HG3	1:z:686:TYR:HD2	1.85	0.42
1:z:418:MET:O	1:z:718:THR:HA	2.19	0.42
1:z:609:GLU:O	1:2:419:HIS:HE1	2.02	0.42
1:4:371:PRO:HA	1:4:376:ASN:HA	2.01	0.42
1:6:431:VAL:O	1:7:346:HIS:HD2	2.03	0.42
1:7:439:ASP:OD2	1:7:449:ARG:HB2	2.20	0.42
1:8:285:GLN:HG3	1:8:686:TYR:HD2	1.85	0.42
1:B:276:HIS:HB3	1:B:599:LEU:HG	2.01	0.42
1:I:249:GLN:NE2	1:I:261:PHE:HE1	2.17	0.42
1:I:359:MET:HE3	1:J:647:PHE:HA	2.01	0.42
1:I:439:ASP:OD2	1:I:449:ARG:HB2	2.20	0.42
1:J:435:LEU:HD22	1:L:522:LEU:HD12	2.01	0.42
1:K:301:PHE:HE1	1:K:664:MET:HE3	1.84	0.42
1:L:301:PHE:HE1	1:L:664:MET:HE3	1.84	0.42
1:L:418:MET:O	1:L:718:THR:HA	2.19	0.42
1:M:285:GLN:HG3	1:M:686:TYR:HD2	1.85	0.42
1:M:359:MET:HE3	1:N:647:PHE:HA	2.02	0.42
1:M:643:PRO:HG2	1:c:240:PRO:HB3	2.01	0.42
1:N:285:GLN:HG3	1:N:686:TYR:HD2	1.85	0.42
1:N:471:ASN:OD1	1:N:472:GLN:N	2.53	0.42
1:Q:249:GLN:NE2	1:Q:261:PHE:HE1	2.17	0.42
1:S:285:GLN:HG3	1:S:686:TYR:HD2	1.85	0.42
1:S:471:ASN:OD1	1:S:472:GLN:N	2.53	0.42
1:T:249:GLN:NE2	1:T:261:PHE:HE1	2.17	0.42
1:V:276:HIS:HB3	1:V:599:LEU:HG	2.01	0.42
1:V:471:ASN:OD1	1:V:472:GLN:N	2.53	0.42
1:W:445:ASN:HB2	1:Y:536:ALA:O	2.20	0.42
1:W:471:ASN:OD1	1:W:472:GLN:N	2.53	0.42
1:Y:439:ASP:OD2	1:Y:449:ARG:HB2	2.20	0.42
1:a:276:HIS:HB3	1:a:599:LEU:HG	2.01	0.42
1:a:276:HIS:CD2	1:a:600:GLN:HA	2.55	0.42
1:a:471:ASN:OD1	1:a:472:GLN:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:301:PHE:HE1	1:h:664:MET:HE3	1.84	0.42
1:i:471:ASN:OD1	1:i:472:GLN:N	2.53	0.42
1:l:285:GLN:HG3	1:l:686:TYR:HD2	1.85	0.42
1:l:471:ASN:OD1	1:l:472:GLN:N	2.53	0.42
1:m:249:GLN:NE2	1:m:261:PHE:HE1	2.17	0.42
1:n:249:GLN:NE2	1:n:261:PHE:HE1	2.17	0.42
1:p:471:ASN:OD1	1:p:472:GLN:N	2.53	0.42
1:r:276:HIS:HB3	1:r:599:LEU:HG	2.01	0.42
1:r:289:ASN:O	1:r:717:LEU:HD11	2.19	0.42
1:r:418:MET:O	1:r:718:THR:HA	2.19	0.42
1:r:471:ASN:OD1	1:r:472:GLN:N	2.53	0.42
1:s:285:GLN:HG3	1:s:686:TYR:HD2	1.85	0.42
1:u:439:ASP:OD2	1:u:449:ARG:HB2	2.20	0.42
1:x:249:GLN:NE2	1:x:261:PHE:HE1	2.17	0.42
1:x:450:LYS:NZ	1:y:347:GLU:OE2	2.28	0.42
1:y:276:HIS:HB3	1:y:599:LEU:HG	2.01	0.42
1:y:471:ASN:OD1	1:y:472:GLN:N	2.53	0.42
1:y:679:ARG:NH1	1:y:683:GLU:HG2	2.35	0.42
1:z:709:ASP:C	1:z:710[B]:ARG:HG2	2.45	0.42
1:1:276:HIS:HB3	1:1:599:LEU:HG	2.01	0.42
1:3:471:ASN:OD1	1:3:472:GLN:N	2.53	0.42
1:6:249:GLN:NE2	1:6:261:PHE:HE1	2.17	0.42
1:6:471:ASN:OD1	1:6:472:GLN:N	2.53	0.42
1:A:643:PRO:HG2	1:B:240:PRO:HB3	2.01	0.42
1:B:610:THR:HA	1:L:593:GLN:NE2	2.35	0.42
1:B:679:ARG:NH1	1:B:683:GLU:HG2	2.35	0.42
1:F:285:GLN:HG3	1:F:686:TYR:HD2	1.85	0.42
1:F:471:ASN:OD1	1:F:472:GLN:N	2.53	0.42
1:F:679:ARG:NH1	1:F:683:GLU:HG2	2.35	0.42
1:G:276:HIS:HB3	1:G:599:LEU:HG	2.01	0.42
1:K:242:TYR:OH	1:K:360:LEU:O	2.35	0.42
1:K:643:PRO:HG2	1:7:240:PRO:HB3	2.01	0.42
1:M:276:HIS:CD2	1:M:600:GLN:HA	2.55	0.42
1:M:301:PHE:HE1	1:M:664:MET:HE3	1.84	0.42
1:P:504:ALA:HA	1:P:505:PRO:HA	1.85	0.42
1:P:679:ARG:NH1	1:P:683:GLU:HG2	2.35	0.42
1:R:418:MET:O	1:R:718:THR:HA	2.19	0.42
1:R:679:ARG:NH1	1:R:683:GLU:HG2	2.35	0.42
1:S:276:HIS:HB3	1:S:599:LEU:HG	2.01	0.42
1:U:679:ARG:NH1	1:U:683:GLU:HG2	2.35	0.42
1:W:435:LEU:HD22	1:Y:522:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:504:ALA:HA	1:W:505:PRO:HA	1.85	0.42
1:W:593:GLN:NE2	1:Y:610:THR:HA	2.35	0.42
1:Y:471:ASN:OD1	1:Y:472:GLN:N	2.53	0.42
1:b:276:HIS:HB3	1:b:599:LEU:HG	2.01	0.42
1:b:439:ASP:OD2	1:b:449:ARG:HB2	2.20	0.42
1:c:276:HIS:CD2	1:c:600:GLN:HA	2.55	0.42
1:c:496:LEU:HD11	1:p:553:THR:O	2.20	0.42
1:d:249:GLN:NE2	1:d:261:PHE:HE1	2.17	0.42
1:d:276:HIS:HB3	1:d:599:LEU:HG	2.01	0.42
1:d:289:ASN:O	1:d:717:LEU:HD11	2.19	0.42
1:d:301:PHE:HE1	1:d:664:MET:HE3	1.84	0.42
1:f:276:HIS:HB3	1:f:599:LEU:HG	2.01	0.42
1:f:367:THR:HG21	1:f:384:ALA:N	2.25	0.42
1:f:439:ASP:OD2	1:f:449:ARG:HB2	2.20	0.42
1:g:522:LEU:HD12	1:h:435:LEU:HD22	2.02	0.42
1:j:679:ARG:NH1	1:j:683:GLU:HG2	2.35	0.42
1:m:471:ASN:OD1	1:m:472:GLN:N	2.53	0.42
1:m:679:ARG:NH1	1:m:683:GLU:HG2	2.35	0.42
1:n:289:ASN:O	1:n:717:LEU:HD11	2.19	0.42
1:p:276:HIS:HB3	1:p:599:LEU:HG	2.01	0.42
1:r:247:TYR:O	1:x:704:GLY:HA2	2.20	0.42
1:r:285:GLN:HG3	1:r:686:TYR:HD2	1.85	0.42
1:r:679:ARG:NH1	1:r:683:GLU:HG2	2.35	0.42
1:s:471:ASN:OD1	1:s:472:GLN:N	2.53	0.42
1:s:679:ARG:NH1	1:s:683:GLU:HG2	2.35	0.42
1:t:276:HIS:HB3	1:t:599:LEU:HG	2.01	0.42
1:u:249:GLN:NE2	1:u:261:PHE:HE1	2.17	0.42
1:v:710[A]:ARG:HB2	1:v:712:ILE:HG13	2.01	0.42
1:z:301:PHE:HE1	1:z:664:MET:HE3	1.84	0.42
1:z:371:PRO:HA	1:z:376:ASN:HA	2.01	0.42
1:1:418:MET:O	1:1:718:THR:HA	2.19	0.42
1:3:227:ASP:OD1	1:3:228[B]:ARG:HD3	2.20	0.42
1:3:276:HIS:CD2	1:3:600:GLN:HA	2.55	0.42
1:6:679:ARG:NH1	1:6:683:GLU:HG2	2.35	0.42
1:7:471:ASN:OD1	1:7:472:GLN:N	2.53	0.42
1:8:302:LYS:HB3	1:8:665:THR:HG22	2.00	0.42
1:A:285:GLN:HG3	1:A:686:TYR:HD2	1.85	0.41
1:A:679:ARG:NH1	1:A:683:GLU:HG2	2.35	0.41
1:B:418:MET:O	1:B:718:THR:HA	2.19	0.41
1:B:637:THR:HG21	1:C:663:GLN:NE2	2.35	0.41
1:C:435:LEU:HD22	1:b:522:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:439:ASP:OD2	1:F:449:ARG:HB2	2.20	0.41
1:I:276:HIS:CD2	1:I:600:GLN:HA	2.55	0.41
1:J:439:ASP:OD2	1:J:449:ARG:HB2	2.20	0.41
1:L:371:PRO:HA	1:L:376:ASN:HA	2.01	0.41
1:O:418:MET:O	1:O:718:THR:HA	2.19	0.41
1:O:593:GLN:NE2	1:m:610:THR:HA	2.33	0.41
1:P:663:GLN:NE2	1:Q:637:THR:HG21	2.35	0.41
1:R:285:GLN:HG3	1:R:686:TYR:HD2	1.85	0.41
1:R:289:ASN:O	1:R:717:LEU:HD11	2.19	0.41
1:S:418:MET:O	1:S:718:THR:HA	2.19	0.41
1:S:679:ARG:NH1	1:S:683:GLU:HG2	2.35	0.41
1:T:276:HIS:HB3	1:T:599:LEU:HG	2.01	0.41
1:U:471:ASN:OD1	1:U:472:GLN:N	2.53	0.41
1:W:679:ARG:NH1	1:W:683:GLU:HG2	2.35	0.41
1:X:439:ASP:OD2	1:X:449:ARG:HB2	2.20	0.41
1:Z:302:LYS:HB3	1:Z:665:THR:HG22	2.00	0.41
1:c:471:ASN:OD1	1:c:472:GLN:N	2.53	0.41
1:f:445:ASN:HB2	1:h:536:ALA:O	2.20	0.41
1:j:281:PRO:HB2	1:w:682:PRO:HD3	2.01	0.41
1:k:439:ASP:OD2	1:k:449:ARG:HB2	2.20	0.41
1:m:276:HIS:HB3	1:m:599:LEU:HG	2.01	0.41
1:n:276:HIS:HB3	1:n:599:LEU:HG	2.01	0.41
1:n:301:PHE:HE1	1:n:664:MET:HE3	1.84	0.41
1:o:439:ASP:OD2	1:o:449:ARG:HB2	2.20	0.41
1:q:285:GLN:HG3	1:q:686:TYR:HD2	1.85	0.41
1:q:418:MET:O	1:q:718:THR:HA	2.19	0.41
1:q:522:LEU:HD12	1:s:435:LEU:HD22	2.02	0.41
1:q:684:ILE:HD11	1:r:381:PRO:HB2	2.02	0.41
1:r:249:GLN:NE2	1:r:261:PHE:HE1	2.17	0.41
1:t:380:THR:HA	1:y:692:ASN:OD1	2.20	0.41
1:u:285:GLN:HG3	1:u:686:TYR:HD2	1.85	0.41
1:v:679:ARG:NH1	1:v:683:GLU:HG2	2.35	0.41
1:x:593:GLN:HE22	1:y:610:THR:HA	1.84	0.41
1:y:301:PHE:HE1	1:y:664:MET:HE3	1.84	0.41
1:y:367:THR:HG21	1:y:384:ALA:N	2.25	0.41
1:y:439:ASP:OD2	1:y:449:ARG:HB2	2.20	0.41
1:y:710[A]:ARG:HB2	1:y:712:ILE:HG13	2.01	0.41
1:z:496:LEU:HD11	1:2:553:THR:O	2.20	0.41
1:1:679:ARG:NH1	1:1:683:GLU:HG2	2.35	0.41
1:3:249:GLN:NE2	1:3:261:PHE:HE1	2.17	0.41
1:4:242:TYR:OH	1:4:360:LEU:O	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:249:GLN:NE2	1:7:261:PHE:HE1	2.18	0.41
1:8:471:ASN:OD1	1:8:472:GLN:N	2.53	0.41
1:D:435:LEU:HD22	1:N:522:LEU:HD12	2.02	0.41
1:D:439:ASP:OD2	1:D:449:ARG:HB2	2.20	0.41
1:E:242:TYR:OH	1:E:360:LEU:O	2.35	0.41
1:F:301:PHE:HE1	1:F:664:MET:HE3	1.84	0.41
1:F:637:THR:HG21	1:R:663:GLN:NE2	2.35	0.41
1:H:249:GLN:NE2	1:H:261:PHE:HE1	2.17	0.41
1:H:439:ASP:OD2	1:H:449:ARG:HB2	2.20	0.41
1:H:471:ASN:OD1	1:H:472:GLN:N	2.53	0.41
1:P:439:ASP:OD2	1:P:449:ARG:HB2	2.20	0.41
1:P:471:ASN:OD1	1:P:472:GLN:N	2.53	0.41
1:R:276:HIS:CD2	1:R:600:GLN:HA	2.55	0.41
1:R:439:ASP:OD2	1:R:449:ARG:HB2	2.20	0.41
1:S:249:GLN:NE2	1:S:261:PHE:HE1	2.18	0.41
1:T:471:ASN:OD1	1:T:472:GLN:N	2.53	0.41
1:T:679:ARG:NH1	1:T:683:GLU:HG2	2.35	0.41
1:V:429:PRO:HB3	1:e:366:LEU:HD23	2.01	0.41
1:X:496:LEU:HD11	1:e:553:THR:O	2.20	0.41
1:Y:249:GLN:NE2	1:Y:261:PHE:HE1	2.18	0.41
1:Y:276:HIS:HB3	1:Y:599:LEU:HG	2.01	0.41
1:Z:471:ASN:OD1	1:Z:472:GLN:N	2.53	0.41
1:a:418:MET:O	1:a:718:THR:HA	2.19	0.41
1:c:610:THR:HA	1:p:593:GLN:HE22	1.85	0.41
1:c:643:PRO:HG2	1:s:240:PRO:HB3	2.01	0.41
1:c:679:ARG:NH1	1:c:683:GLU:HG2	2.35	0.41
1:e:367:THR:HG21	1:e:384:ALA:N	2.25	0.41
1:e:471:ASN:OD1	1:e:472:GLN:N	2.53	0.41
1:g:285:GLN:HG3	1:g:686:TYR:HD2	1.85	0.41
1:j:471:ASN:OD1	1:j:472:GLN:N	2.53	0.41
1:k:249:GLN:NE2	1:k:261:PHE:HE1	2.17	0.41
1:n:439:ASP:OD2	1:n:449:ARG:HB2	2.20	0.41
1:p:213:GLN:NE2	1:q:209:ASP:HB2	2.35	0.41
1:q:289:ASN:O	1:q:717:LEU:HD11	2.19	0.41
1:q:679:ARG:NH1	1:q:683:GLU:HG2	2.35	0.41
1:u:242:TYR:OH	1:u:360:LEU:O	2.35	0.41
1:u:281:PRO:HB2	1:l:682:PRO:HD3	2.02	0.41
1:v:285:GLN:HG3	1:v:686:TYR:HD2	1.85	0.41
1:v:471:ASN:OD1	1:v:472:GLN:N	2.53	0.41
1:w:276:HIS:HB3	1:w:599:LEU:HG	2.01	0.41
1:l:439:ASP:OD2	1:l:449:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:439:ASP:OD2	1:2:449:ARG:HB2	2.20	0.41
1:5:471:ASN:OD1	1:5:472:GLN:N	2.53	0.41
1:7:276:HIS:HB3	1:7:599:LEU:HG	2.01	0.41
1:7:367:THR:HG21	1:7:384:ALA:N	2.25	0.41
1:8:439:ASP:OD2	1:8:449:ARG:HB2	2.20	0.41
1:A:471:ASN:OD1	1:A:472:GLN:N	2.53	0.41
1:B:439:ASP:OD2	1:B:449:ARG:HB2	2.20	0.41
1:C:679:ARG:NH1	1:C:683:GLU:HG2	2.35	0.41
1:D:684:ILE:HD11	1:N:381:PRO:HB2	2.01	0.41
1:I:285:GLN:HG3	1:I:686:TYR:HD2	1.85	0.41
1:L:471:ASN:OD1	1:L:472:GLN:N	2.53	0.41
1:N:679:ARG:NH1	1:N:683:GLU:HG2	2.35	0.41
1:O:249:GLN:NE2	1:O:261:PHE:HE1	2.18	0.41
1:O:276:HIS:HB3	1:O:599:LEU:HG	2.01	0.41
1:O:276:HIS:CD2	1:O:600:GLN:HA	2.55	0.41
1:R:610:THR:HA	1:U:593:GLN:NE2	2.35	0.41
1:T:227:ASP:OD1	1:T:228[B]:ARG:HD3	2.20	0.41
1:T:643:PRO:HG2	1:i:240:PRO:HB3	2.01	0.41
1:U:249:GLN:NE2	1:U:261:PHE:HE1	2.17	0.41
1:U:439:ASP:OD2	1:U:449:ARG:HB2	2.20	0.41
1:Y:679:ARG:NH1	1:Y:683:GLU:HG2	2.35	0.41
1:Z:439:ASP:OD2	1:Z:449:ARG:HB2	2.20	0.41
1:a:249:GLN:NE2	1:a:261:PHE:HE1	2.18	0.41
1:a:290:ASN:HD21	1:3:290:ASN:HD21	1.69	0.41
1:b:367:THR:HG21	1:b:384:ALA:N	2.25	0.41
1:d:429:PRO:HB3	1:l:366:LEU:HD23	2.00	0.41
1:d:439:ASP:OD2	1:d:449:ARG:HB2	2.20	0.41
1:d:679:ARG:NH1	1:d:683:GLU:HG2	2.35	0.41
1:g:679:ARG:NH1	1:g:683:GLU:HG2	2.35	0.41
1:h:359:MET:HE3	1:i:647:PHE:HA	2.03	0.41
1:i:435:LEU:HD22	1:j:522:LEU:HD12	2.01	0.41
1:i:679:ARG:NH1	1:i:683:GLU:HG2	2.35	0.41
1:l:249:GLN:NE2	1:l:261:PHE:HE1	2.17	0.41
1:l:276:HIS:CD2	1:l:600:GLN:HA	2.55	0.41
1:n:679:ARG:NH1	1:n:683:GLU:HG2	2.35	0.41
1:q:276:HIS:CD2	1:q:600:GLN:HA	2.55	0.41
1:q:301:PHE:HE1	1:q:664:MET:HE3	1.84	0.41
1:q:439:ASP:OD2	1:q:449:ARG:HB2	2.20	0.41
1:q:682:PRO:HD3	1:x:281:PRO:HB2	2.02	0.41
1:t:346:HIS:HD2	1:v:431:VAL:O	2.04	0.41
1:u:276:HIS:CD2	1:u:600:GLN:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:418:MET:O	1:v:718:THR:HA	2.19	0.41
1:v:682:PRO:HD3	1:y:281:PRO:HB2	2.02	0.41
1:v:692:ASN:OD1	1:w:380:THR:HA	2.20	0.41
1:z:471:ASN:OD1	1:z:472:GLN:N	2.53	0.41
1:3:285:GLN:HG3	1:3:686:TYR:HD2	1.85	0.41
1:3:366:LEU:HD23	1:4:429:PRO:HB3	2.03	0.41
1:3:418:MET:O	1:3:718:THR:HA	2.19	0.41
1:6:593:GLN:HE22	1:7:610:THR:HA	1.85	0.41
1:7:353:PHE:HA	1:7:354:PRO:HD3	1.94	0.41
1:7:371:PRO:HA	1:7:376:ASN:HA	2.01	0.41
1:A:663:GLN:NE2	1:E:637:THR:HG21	2.35	0.41
1:C:276:HIS:CD2	1:C:600:GLN:HA	2.55	0.41
1:C:285:GLN:HG3	1:C:686:TYR:HD2	1.85	0.41
1:C:418:MET:O	1:C:718:THR:HA	2.19	0.41
1:D:276:HIS:HB3	1:D:599:LEU:HG	2.01	0.41
1:D:593:GLN:NE2	1:N:610:THR:HA	2.35	0.41
1:E:276:HIS:HB3	1:E:599:LEU:HG	2.01	0.41
1:F:367:THR:HG21	1:F:384:ALA:N	2.25	0.41
1:F:663:GLN:NE2	1:G:637:THR:HG21	2.35	0.41
1:H:285:GLN:HG3	1:H:686:TYR:HD2	1.85	0.41
1:H:371:PRO:HA	1:H:376:ASN:HA	2.02	0.41
1:M:371:PRO:HA	1:M:376:ASN:HA	2.01	0.41
1:N:276:HIS:CD2	1:N:600:GLN:HA	2.55	0.41
1:N:663:GLN:NE2	1:m:637:THR:HG21	2.36	0.41
1:O:445:ASN:HB2	1:m:536:ALA:O	2.20	0.41
1:R:301:PHE:HE1	1:R:664:MET:HE3	1.84	0.41
1:R:471:ASN:OD1	1:R:472:GLN:N	2.53	0.41
1:S:359:MET:HE3	1:d:647:PHE:HA	2.02	0.41
1:S:439:ASP:OD2	1:S:449:ARG:HB2	2.20	0.41
1:T:496:LEU:HD11	1:l:553:THR:O	2.20	0.41
1:W:249:GLN:NE2	1:W:261:PHE:HE1	2.18	0.41
1:X:471:ASN:OD1	1:X:472:GLN:N	2.53	0.41
1:X:679:ARG:NH1	1:X:683:GLU:HG2	2.35	0.41
1:Y:371:PRO:HA	1:Y:376:ASN:HA	2.01	0.41
1:a:285:GLN:HG3	1:a:686:TYR:HD2	1.85	0.41
1:b:471:ASN:OD1	1:b:472:GLN:N	2.53	0.41
1:c:371:PRO:HA	1:c:376:ASN:HA	2.01	0.41
1:e:371:PRO:HA	1:e:376:ASN:HA	2.01	0.41
1:e:679:ARG:NH1	1:e:683:GLU:HG2	2.35	0.41
1:g:213:GLN:NE2	1:1:209:ASP:HB2	2.35	0.41
1:g:276:HIS:CD2	1:g:600:GLN:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:209:ASP:HB2	1:l:213:GLN:NE2	2.35	0.41
1:j:425:ARG:HD3	1:j:425:ARG:HA	1.92	0.41
1:j:439:ASP:OD2	1:j:449:ARG:HB2	2.20	0.41
1:j:704:GLY:HA2	1:x:247:TYR:O	2.19	0.41
1:k:276:HIS:HB3	1:k:599:LEU:HG	2.01	0.41
1:l:276:HIS:HB3	1:l:599:LEU:HG	2.01	0.41
1:l:679:ARG:NH1	1:l:683:GLU:HG2	2.35	0.41
1:n:285:GLN:HG3	1:n:686:TYR:HD2	1.85	0.41
1:n:471:ASN:OD1	1:n:472:GLN:N	2.53	0.41
1:o:471:ASN:OD1	1:o:472:GLN:N	2.53	0.41
1:o:679:ARG:NH1	1:o:683:GLU:HG2	2.35	0.41
1:s:249:GLN:NE2	1:s:261:PHE:HE1	2.17	0.41
1:w:431:VAL:O	1:x:346:HIS:HD2	2.03	0.41
1:w:471:ASN:OD1	1:w:472:GLN:N	2.53	0.41
1:w:684:ILE:HD11	1:x:381:PRO:HB2	2.01	0.41
1:z:276:HIS:HB3	1:z:599:LEU:HG	2.01	0.41
1:z:429:PRO:HB3	1:1:366:LEU:HD23	2.01	0.41
1:5:247:TYR:O	1:8:704:GLY:HA2	2.20	0.41
1:5:249:GLN:NE2	1:5:261:PHE:HE1	2.18	0.41
1:5:371:PRO:HA	1:5:376:ASN:HA	2.01	0.41
1:6:285:GLN:HG3	1:6:686:TYR:HD2	1.85	0.41
1:6:553:THR:O	1:7:496:LEU:HD11	2.20	0.41
1:7:679:ARG:NH1	1:7:683:GLU:HG2	2.35	0.41
1:A:418:MET:O	1:A:718:THR:HA	2.19	0.41
1:D:371:PRO:HA	1:D:376:ASN:HA	2.02	0.41
1:D:471:ASN:OD1	1:D:472:GLN:N	2.53	0.41
1:D:679:ARG:NH1	1:D:683:GLU:HG2	2.35	0.41
1:E:471:ASN:OD1	1:E:472:GLN:N	2.53	0.41
1:E:679:ARG:NH1	1:E:683:GLU:HG2	2.35	0.41
1:F:353:PHE:CE2	1:F:355:ALA:HB3	2.56	0.41
1:F:610:THR:HA	1:Q:593:GLN:NE2	2.36	0.41
1:G:439:ASP:OD2	1:G:449:ARG:HB2	2.20	0.41
1:J:353:PHE:CE2	1:J:355:ALA:HB3	2.56	0.41
1:J:418:MET:O	1:J:718:THR:HA	2.19	0.41
1:J:553:THR:O	1:L:496:LEU:HD11	2.20	0.41
1:K:353:PHE:CE2	1:K:355:ALA:HB3	2.56	0.41
1:K:439:ASP:OD2	1:K:449:ARG:HB2	2.20	0.41
1:L:276:HIS:HB3	1:L:599:LEU:HG	2.01	0.41
1:O:679:ARG:NH1	1:O:683:GLU:HG2	2.35	0.41
1:Q:418:MET:O	1:Q:718:THR:HA	2.19	0.41
1:S:353:PHE:CE2	1:S:355:ALA:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:276:HIS:CD2	1:U:600:GLN:HA	2.55	0.41
1:V:435:LEU:HD22	1:e:522:LEU:HD12	2.02	0.41
1:V:445:ASN:HB2	1:e:536:ALA:O	2.20	0.41
1:W:285:GLN:HG3	1:W:686:TYR:HD2	1.85	0.41
1:d:285:GLN:HG3	1:d:686:TYR:HD2	1.85	0.41
1:d:471:ASN:OD1	1:d:472:GLN:N	2.53	0.41
1:f:471:ASN:OD1	1:f:472:GLN:N	2.53	0.41
1:g:418:MET:O	1:g:718:THR:HA	2.19	0.41
1:g:471:ASN:OD1	1:g:472:GLN:N	2.53	0.41
1:g:682:PRO:HD3	1:z:281:PRO:HB2	2.01	0.41
1:h:371:PRO:HA	1:h:376:ASN:HA	2.01	0.41
1:h:504:ALA:HA	1:h:505:PRO:HA	1.86	0.41
1:i:276:HIS:CD2	1:i:600:GLN:HA	2.55	0.41
1:k:679:ARG:NH1	1:k:683:GLU:HG2	2.35	0.41
1:q:471:ASN:OD1	1:q:472:GLN:N	2.53	0.41
1:r:439:ASP:OD2	1:r:449:ARG:HB2	2.20	0.41
1:s:242:TYR:OH	1:s:360:LEU:O	2.35	0.41
1:s:276:HIS:CD2	1:s:600:GLN:HA	2.55	0.41
1:s:439:ASP:OD2	1:s:449:ARG:HB2	2.20	0.41
1:x:418:MET:O	1:x:718:THR:HA	2.19	0.41
1:x:439:ASP:OD2	1:x:449:ARG:HB2	2.20	0.41
1:x:471:ASN:OD1	1:x:472:GLN:N	2.53	0.41
1:z:209:ASP:HB2	1:4:213:GLN:NE2	2.35	0.41
1:3:289:ASN:ND2	1:3:686:TYR:H	2.13	0.41
1:4:353:PHE:CE2	1:4:355:ALA:HB3	2.56	0.41
1:4:439:ASP:OD2	1:4:449:ARG:HB2	2.20	0.41
1:5:209:ASP:HB2	1:8:213:GLN:NE2	2.35	0.41
1:5:353:PHE:CE2	1:5:355:ALA:HB3	2.56	0.41
1:5:439:ASP:OD2	1:5:449:ARG:HB2	2.20	0.41
1:B:285:GLN:HG3	1:B:686:TYR:HD2	1.85	0.41
1:C:429:PRO:HB3	1:b:366:LEU:HD23	2.02	0.41
1:C:471:ASN:OD1	1:C:472:GLN:N	2.53	0.41
1:D:249:GLN:NE2	1:D:261:PHE:HE1	2.18	0.41
1:D:429:PRO:HB3	1:N:366:LEU:HD23	2.02	0.41
1:G:285:GLN:HG3	1:G:686:TYR:HD2	1.85	0.41
1:H:353:PHE:CE2	1:H:355:ALA:HB3	2.56	0.41
1:I:242:TYR:OH	1:I:360:LEU:O	2.35	0.41
1:I:289:ASN:O	1:I:717:LEU:HD11	2.19	0.41
1:I:471:ASN:OD1	1:I:472:GLN:N	2.53	0.41
1:J:429:PRO:HB3	1:L:366:LEU:HD23	2.03	0.41
1:K:347:GLU:OE2	1:8:450:LYS:NZ	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:439:ASP:OD2	1:L:449:ARG:HB2	2.20	0.41
1:L:679:ARG:NH1	1:L:683:GLU:HG2	2.35	0.41
1:M:439:ASP:OD2	1:M:449:ARG:HB2	2.20	0.41
1:M:504:ALA:HA	1:M:505:PRO:HA	1.85	0.41
1:O:435:LEU:HD22	1:m:522:LEU:HD12	2.02	0.41
1:Q:679:ARG:NH1	1:Q:683:GLU:HG2	2.35	0.41
1:R:637:THR:HG21	1:V:663:GLN:NE2	2.35	0.41
1:S:663:GLN:NE2	1:d:637:THR:HG21	2.34	0.41
1:T:285:GLN:HG3	1:T:686:TYR:HD2	1.85	0.41
1:U:353:PHE:CE2	1:U:355:ALA:HB3	2.56	0.41
1:U:359:MET:HE3	1:e:647:PHE:HA	2.02	0.41
1:W:353:PHE:CE2	1:W:355:ALA:HB3	2.56	0.41
1:X:359:MET:HE3	1:Y:647:PHE:HA	2.02	0.41
1:Y:367:THR:HG21	1:Y:384:ALA:N	2.25	0.41
1:Y:663:GLN:NE2	1:4:637:THR:HG21	2.36	0.41
1:a:289:ASN:ND2	1:a:686:TYR:H	2.13	0.41
1:a:439:ASP:OD2	1:a:449:ARG:HB2	2.20	0.41
1:b:425:ARG:HA	1:b:425:ARG:HD3	1.92	0.41
1:i:686:TYR:CE1	1:i:710[A]:ARG:NH2	2.89	0.41
1:i:690[B]:PHE:CZ	1:l:684:ILE:HG23	2.56	0.41
1:j:285:GLN:HG3	1:j:686:TYR:HD2	1.85	0.41
1:j:504:ALA:HA	1:j:505:PRO:HA	1.86	0.41
1:k:371:PRO:HA	1:k:376:ASN:HA	2.01	0.41
1:k:471:ASN:OD1	1:k:472:GLN:N	2.53	0.41
1:m:285:GLN:HG3	1:m:686:TYR:HD2	1.85	0.41
1:p:285:GLN:HG3	1:p:686:TYR:HD2	1.85	0.41
1:r:353:PHE:CE2	1:r:355:ALA:HB3	2.56	0.41
1:u:471:ASN:OD1	1:u:472:GLN:N	2.53	0.41
1:u:679:ARG:NH1	1:u:683:GLU:HG2	2.35	0.41
1:v:281:PRO:HB2	1:y:682:PRO:HD3	2.02	0.41
1:w:679:ARG:NH1	1:w:683:GLU:HG2	2.35	0.41
1:x:679:ARG:NH1	1:x:683:GLU:HG2	2.35	0.41
1:y:353:PHE:CE2	1:y:355:ALA:HB3	2.56	0.41
1:2:353:PHE:CE2	1:2:355:ALA:HB3	2.56	0.41
1:2:418:MET:O	1:2:718:THR:HA	2.19	0.41
1:5:593:GLN:HE22	1:6:610:THR:HA	1.85	0.41
1:7:686:TYR:CE1	1:7:710[A]:ARG:NH2	2.89	0.41
1:B:276:HIS:CD2	1:B:600:GLN:HA	2.55	0.41
1:D:353:PHE:CE2	1:D:355:ALA:HB3	2.56	0.41
1:H:663:GLN:NE2	1:I:637:THR:HG21	2.36	0.41
1:I:679:ARG:NH1	1:I:683:GLU:HG2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:359:MET:HE3	1:a:647:PHE:HA	2.02	0.41
1:N:439:ASP:OD2	1:N:449:ARG:HB2	2.20	0.41
1:P:285:GLN:HG3	1:P:686:TYR:HD2	1.85	0.41
1:P:507:GLN:O	1:P:509:ASN:N	2.54	0.41
1:Q:301:PHE:HE1	1:Q:664:MET:HE3	1.84	0.41
1:Q:439:ASP:OD2	1:Q:449:ARG:HB2	2.20	0.41
1:Q:471:ASN:OD1	1:Q:472:GLN:N	2.53	0.41
1:T:353:PHE:CE2	1:T:355:ALA:HB3	2.56	0.41
1:U:242:TYR:OH	1:U:360:LEU:O	2.35	0.41
1:V:285:GLN:HG3	1:V:686:TYR:HD2	1.85	0.41
1:X:285:GLN:HG3	1:X:686:TYR:HD2	1.85	0.41
1:Y:353:PHE:HA	1:Y:354:PRO:HD3	1.94	0.41
1:Z:553:THR:O	1:4:496:LEU:HD11	2.20	0.41
1:Z:679:ARG:NH1	1:Z:683:GLU:HG2	2.35	0.41
1:a:679:ARG:NH1	1:a:683:GLU:HG2	2.35	0.41
1:b:353:PHE:CE2	1:b:355:ALA:HB3	2.56	0.41
1:c:242:TYR:OH	1:c:360:LEU:O	2.35	0.41
1:d:353:PHE:CE2	1:d:355:ALA:HB3	2.56	0.41
1:e:242:TYR:OH	1:e:360:LEU:O	2.35	0.41
1:f:371:PRO:HA	1:f:376:ASN:HA	2.01	0.41
1:f:610:THR:HA	1:g:593:GLN:HE22	1.85	0.41
1:h:439:ASP:OD2	1:h:449:ARG:HB2	2.20	0.41
1:i:684:ILE:HD11	1:j:381:PRO:HB2	2.03	0.41
1:j:429:PRO:HB3	1:k:366:LEU:HD23	2.03	0.41
1:k:353:PHE:CE2	1:k:355:ALA:HB3	2.56	0.41
1:m:353:PHE:CE2	1:m:355:ALA:HB3	2.56	0.41
1:n:353:PHE:CE2	1:n:355:ALA:HB3	2.56	0.41
1:p:371:PRO:HA	1:p:376:ASN:HA	2.01	0.41
1:q:593:GLN:HE22	1:r:610:THR:HA	1.84	0.41
1:s:353:PHE:CE2	1:s:355:ALA:HB3	2.56	0.41
1:t:285:GLN:HG3	1:t:686:TYR:HD2	1.85	0.41
1:t:386:TYR:OH	1:v:420:ASN:ND2	2.54	0.41
1:t:439:ASP:OD2	1:t:449:ARG:HB2	2.20	0.41
1:t:684:ILE:HD11	1:u:381:PRO:HB2	2.01	0.41
1:u:289:ASN:O	1:u:717:LEU:HD11	2.19	0.41
1:z:679:ARG:NH1	1:z:683:GLU:HG2	2.35	0.41
1:1:276:HIS:CD2	1:1:600:GLN:HA	2.55	0.41
1:1:285:GLN:HG3	1:1:686:TYR:HD2	1.85	0.41
1:5:285:GLN:HG3	1:5:686:TYR:HD2	1.85	0.41
1:6:353:PHE:CE2	1:6:355:ALA:HB3	2.56	0.41
1:6:504:ALA:HA	1:6:505:PRO:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:679:ARG:NH1	1:8:683:GLU:HG2	2.35	0.41
1:A:276:HIS:CD2	1:A:600:GLN:HA	2.55	0.41
1:A:439:ASP:OD2	1:A:449:ARG:HB2	2.20	0.41
1:A:637:THR:HG21	1:B:663:GLN:NE2	2.35	0.41
1:B:471:ASN:OD1	1:B:472:GLN:N	2.53	0.41
1:G:371:PRO:HA	1:G:376:ASN:HA	2.02	0.41
1:G:679:ARG:NH1	1:G:683:GLU:HG2	2.35	0.41
1:K:227:ASP:OD1	1:K:228[B]:ARG:HD3	2.20	0.41
1:K:276:HIS:HB3	1:K:599:LEU:HG	2.01	0.41
1:P:425:ARG:HD3	1:P:425:ARG:HA	1.92	0.41
1:Q:353:PHE:CE2	1:Q:355:ALA:HB3	2.56	0.41
1:Z:346:HIS:HD2	1:3:431:VAL:O	2.03	0.41
1:f:353:PHE:CE2	1:f:355:ALA:HB3	2.56	0.41
1:f:496:LEU:HD11	1:g:553:THR:O	2.20	0.41
1:g:439:ASP:OD2	1:g:449:ARG:HB2	2.20	0.41
1:h:471:ASN:OD1	1:h:472:GLN:N	2.53	0.41
1:i:689:ASN:N	1:i:710[A]:ARG:HH11	2.19	0.41
1:j:276:HIS:CD2	1:j:600:GLN:HA	2.55	0.41
1:j:507:GLN:O	1:j:509:ASN:N	2.54	0.41
1:l:353:PHE:CE2	1:l:355:ALA:HB3	2.56	0.41
1:n:227:ASP:OD1	1:n:228[B]:ARG:HD3	2.20	0.41
1:p:679:ARG:NH1	1:p:683:GLU:HG2	2.35	0.41
1:p:682:PRO:HD3	1:s:281:PRO:HB2	2.01	0.41
1:q:692:ASN:OD1	1:y:380:THR:HA	2.21	0.41
1:t:353:PHE:CE2	1:t:355:ALA:HB3	2.56	0.41
1:v:276:HIS:CD2	1:v:600:GLN:HA	2.55	0.41
1:w:249:GLN:NE2	1:w:261:PHE:HE1	2.17	0.41
1:z:439:ASP:OD2	1:z:449:ARG:HB2	2.20	0.41
1:1:507:GLN:O	1:1:509:ASN:N	2.54	0.41
1:3:439:ASP:OD2	1:3:449:ARG:HB2	2.20	0.41
1:4:276:HIS:HB3	1:4:599:LEU:HG	2.01	0.41
1:A:249:GLN:NE2	1:A:261:PHE:HE1	2.18	0.41
1:B:507:GLN:O	1:B:509:ASN:N	2.54	0.41
1:C:439:ASP:OD2	1:C:449:ARG:HB2	2.20	0.41
1:D:242:TYR:OH	1:D:360:LEU:O	2.35	0.41
1:F:425:ARG:HD3	1:F:425:ARG:HA	1.92	0.41
1:G:353:PHE:CE2	1:G:355:ALA:HB3	2.56	0.41
1:G:507:GLN:O	1:G:509:ASN:N	2.54	0.41
1:H:507:GLN:O	1:H:509:ASN:N	2.54	0.41
1:H:643:PRO:HG2	1:Z:240:PRO:HB3	2.03	0.41
1:I:277:CYS:SG	1:I:350:MET:HB2	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:507:GLN:O	1:I:509:ASN:N	2.54	0.41
1:J:679:ARG:NH1	1:J:683:GLU:HG2	2.35	0.41
1:K:346:HIS:HD2	1:8:431:VAL:O	2.04	0.41
1:K:471:ASN:OD1	1:K:472:GLN:N	2.53	0.41
1:L:663:GLN:NE2	1:b:637:THR:HG21	2.36	0.41
1:M:471:ASN:OD1	1:M:472:GLN:N	2.53	0.41
1:M:507:GLN:O	1:M:509:ASN:N	2.54	0.41
1:M:679:ARG:NH1	1:M:683:GLU:HG2	2.35	0.41
1:O:353:PHE:CE2	1:O:355:ALA:HB3	2.56	0.41
1:O:637:THR:HG21	1:d:663:GLN:NE2	2.36	0.41
1:P:276:HIS:CD2	1:P:600:GLN:HA	2.55	0.41
1:P:353:PHE:CE2	1:P:355:ALA:HB3	2.56	0.41
1:Q:663:GLN:NE2	1:S:637:THR:HG21	2.35	0.41
1:R:277:CYS:SG	1:R:350:MET:HB2	2.61	0.41
1:R:353:PHE:CE2	1:R:355:ALA:HB3	2.56	0.41
1:T:346:HIS:HD2	1:l:431:VAL:O	2.04	0.41
1:T:439:ASP:OD2	1:T:449:ARG:HB2	2.20	0.41
1:U:663:GLN:NE2	1:e:637:THR:HG21	2.36	0.41
1:V:371:PRO:HA	1:V:376:ASN:HA	2.02	0.41
1:V:679:ARG:NH1	1:V:683:GLU:HG2	2.35	0.41
1:W:553:THR:O	1:Y:496:LEU:HD11	2.21	0.41
1:X:353:PHE:CE2	1:X:355:ALA:HB3	2.56	0.41
1:X:371:PRO:HA	1:X:376:ASN:HA	2.02	0.41
1:Y:353:PHE:CE2	1:Y:355:ALA:HB3	2.56	0.41
1:b:371:PRO:HA	1:b:376:ASN:HA	2.02	0.41
1:b:507:GLN:O	1:b:509:ASN:N	2.54	0.41
1:c:285:GLN:HG3	1:c:686:TYR:HD2	1.85	0.41
1:d:435:LEU:HD22	1:l:522:LEU:HD12	2.03	0.41
1:e:285:GLN:HG3	1:e:686:TYR:HD2	1.85	0.41
1:f:419:HIS:HE1	1:h:609:GLU:O	2.04	0.41
1:f:643:PRO:HG2	1:z:240:PRO:HB3	2.01	0.41
1:h:367:THR:HG21	1:h:384:ALA:N	2.25	0.41
1:h:507:GLN:O	1:h:509:ASN:N	2.54	0.41
1:h:679:ARG:NH1	1:h:683:GLU:HG2	2.35	0.41
1:i:346:HIS:HD2	1:k:431:VAL:O	2.03	0.41
1:i:439:ASP:OD2	1:i:449:ARG:HB2	2.20	0.41
1:i:496:LEU:HD11	1:k:553:THR:O	2.20	0.41
1:j:247:TYR:O	1:l:704:GLY:HA2	2.20	0.41
1:j:353:PHE:CE2	1:j:355:ALA:HB3	2.56	0.41
1:k:242:TYR:OH	1:k:360:LEU:O	2.35	0.41
1:m:439:ASP:OD2	1:m:449:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:663:GLN:NE2	1:s:637:THR:HG21	2.36	0.41
1:o:285:GLN:HG3	1:o:686:TYR:HD2	1.85	0.41
1:o:353:PHE:CE2	1:o:355:ALA:HB3	2.56	0.41
1:o:371:PRO:HA	1:o:376:ASN:HA	2.01	0.41
1:o:435:LEU:HD22	1:p:522:LEU:HD12	2.02	0.41
1:p:663:GLN:CD	1:q:395:MET:HE1	2.46	0.41
1:q:277:CYS:SG	1:q:350:MET:HB2	2.61	0.41
1:q:353:PHE:CE2	1:q:355:ALA:HB3	2.56	0.41
1:r:431:VAL:O	1:s:346:HIS:HD2	2.04	0.41
1:r:593:GLN:HE22	1:s:610:THR:HA	1.86	0.41
1:t:371:PRO:HA	1:t:376:ASN:HA	2.02	0.41
1:t:471:ASN:OD1	1:t:472:GLN:N	2.53	0.41
1:t:507:GLN:O	1:t:509:ASN:N	2.54	0.41
1:t:679:ARG:NH1	1:t:683:GLU:HG2	2.35	0.41
1:u:277:CYS:SG	1:u:350:MET:HB2	2.61	0.41
1:v:277:CYS:SG	1:v:350:MET:HB2	2.61	0.41
1:v:380:THR:HA	1:l:692:ASN:OD1	2.21	0.41
1:v:439:ASP:OD2	1:v:449:ARG:HB2	2.20	0.41
1:x:301:PHE:HE1	1:x:664:MET:HE3	1.84	0.41
1:x:353:PHE:CE2	1:x:355:ALA:HB3	2.56	0.41
1:z:435:LEU:HD22	1:l:522:LEU:HD12	2.02	0.41
1:z:637:THR:HG21	1:4:663:GLN:NE2	2.36	0.41
1:1:277:CYS:SG	1:1:350:MET:HB2	2.61	0.41
1:1:371:PRO:HA	1:1:376:ASN:HA	2.01	0.41
1:1:471:ASN:OD1	1:1:472:GLN:N	2.53	0.41
1:1:684:ILE:HD11	1:2:381:PRO:HB2	2.02	0.41
1:2:679:ARG:NH1	1:2:683:GLU:HG2	2.35	0.41
1:3:234:THR:OG1	1:3:664:MET:O	2.26	0.41
1:3:679:ARG:NH1	1:3:683:GLU:HG2	2.35	0.41
1:4:425:ARG:HA	1:4:425:ARG:HD3	1.92	0.41
1:5:366:LEU:HD23	1:7:429:PRO:HB3	2.03	0.41
1:5:429:PRO:HB3	1:6:366:LEU:HD23	2.03	0.41
1:6:439:ASP:OD2	1:6:449:ARG:HB2	2.20	0.41
1:7:353:PHE:CE2	1:7:355:ALA:HB3	2.56	0.41
1:A:277:CYS:SG	1:A:350:MET:HB2	2.61	0.41
1:B:277:CYS:SG	1:B:350:MET:HB2	2.61	0.41
1:B:371:PRO:HA	1:B:376:ASN:HA	2.01	0.41
1:C:371:PRO:HA	1:C:376:ASN:HA	2.01	0.41
1:E:249:GLN:NE2	1:E:261:PHE:HE1	2.18	0.41
1:E:439:ASP:OD2	1:E:449:ARG:HB2	2.20	0.41
1:F:507:GLN:O	1:F:509:ASN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:276:HIS:CD2	1:G:600:GLN:HA	2.55	0.41
1:J:290:ASN:HD21	1:K:290:ASN:HD21	1.68	0.41
1:K:507:GLN:O	1:K:509:ASN:N	2.54	0.41
1:L:359:MET:HE3	1:b:647:PHE:HA	2.03	0.41
1:O:346:HIS:HD2	1:n:431:VAL:O	2.04	0.41
1:S:507:GLN:O	1:S:509:ASN:N	2.54	0.41
1:V:353:PHE:CE2	1:V:355:ALA:HB3	2.56	0.41
1:X:507:GLN:O	1:X:509:ASN:N	2.54	0.41
1:X:663:GLN:NE2	1:Y:637:THR:HG21	2.36	0.41
1:Y:507:GLN:O	1:Y:509:ASN:N	2.54	0.41
1:Z:277:CYS:SG	1:Z:350:MET:HB2	2.61	0.41
1:b:277:CYS:SG	1:b:350:MET:HB2	2.61	0.41
1:b:359:MET:HE3	1:o:647:PHE:HA	2.03	0.41
1:d:276:HIS:CD2	1:d:600:GLN:HA	2.55	0.41
1:e:213:GLN:NE2	1:h:209:ASP:HB2	2.36	0.41
1:g:371:PRO:HA	1:g:376:ASN:HA	2.01	0.41
1:n:647:PHE:HA	1:r:359:MET:HE3	2.03	0.41
1:q:281:PRO:HB2	1:x:682:PRO:HD3	2.03	0.41
1:r:353:PHE:HA	1:r:354:PRO:HD3	1.94	0.41
1:r:419:HIS:HE1	1:s:609:GLU:O	2.02	0.41
1:r:507:GLN:O	1:r:509:ASN:N	2.54	0.41
1:r:647:PHE:HA	1:x:359:MET:HE3	2.03	0.41
1:s:507:GLN:O	1:s:509:ASN:N	2.54	0.41
1:u:507:GLN:O	1:u:509:ASN:N	2.54	0.41
1:v:249:GLN:NE2	1:v:261:PHE:HE1	2.17	0.41
1:w:439:ASP:OD2	1:w:449:ARG:HB2	2.20	0.41
1:3:507:GLN:O	1:3:509:ASN:N	2.54	0.41
1:4:471:ASN:OD1	1:4:472:GLN:N	2.53	0.41
1:4:507:GLN:O	1:4:509:ASN:N	2.54	0.41
1:5:465:PRO:HB3	1:6:496:LEU:HD12	2.01	0.41
1:5:507:GLN:O	1:5:509:ASN:N	2.54	0.41
1:7:690[B]:PHE:CZ	1:8:684:ILE:HG23	2.56	0.41
1:C:553:THR:O	1:b:496:LEU:HD11	2.21	0.40
1:G:471:ASN:OD1	1:G:472:GLN:N	2.53	0.40
1:J:471:ASN:OD1	1:J:472:GLN:N	2.53	0.40
1:K:285:GLN:HG3	1:K:686:TYR:HD2	1.85	0.40
1:L:507:GLN:O	1:L:509:ASN:N	2.54	0.40
1:M:277:CYS:SG	1:M:350:MET:HB2	2.61	0.40
1:T:237:TRP:O	1:T:661:THR:OG1	2.30	0.40
1:U:276:HIS:HB3	1:U:599:LEU:HG	2.01	0.40
1:U:507:GLN:O	1:U:509:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:439:ASP:OD2	1:V:449:ARG:HB2	2.20	0.40
1:W:439:ASP:OD2	1:W:449:ARG:HB2	2.20	0.40
1:W:450:LYS:NZ	1:Y:347:GLU:OE2	2.28	0.40
1:Y:277:CYS:SG	1:Y:350:MET:HB2	2.61	0.40
1:Z:429:PRO:HB3	1:4:366:LEU:HD23	2.03	0.40
1:Z:609:GLU:O	1:3:419:HIS:HE1	2.05	0.40
1:a:507:GLN:O	1:a:509:ASN:N	2.54	0.40
1:c:439:ASP:OD2	1:c:449:ARG:HB2	2.20	0.40
1:e:439:ASP:OD2	1:e:449:ARG:HB2	2.20	0.40
1:i:429:PRO:HB3	1:j:366:LEU:HD23	2.03	0.40
1:k:209:ASP:HB2	1:w:213:GLN:NE2	2.36	0.40
1:n:247:TYR:O	1:r:704:GLY:HA2	2.22	0.40
1:o:507:GLN:O	1:o:509:ASN:N	2.54	0.40
1:p:353:PHE:CE2	1:p:355:ALA:HB3	2.56	0.40
1:p:439:ASP:OD2	1:p:449:ARG:HB2	2.20	0.40
1:q:445:ASN:HB2	1:r:536:ALA:O	2.21	0.40
1:r:209:ASP:HB2	1:x:213:GLN:NE2	2.36	0.40
1:t:276:HIS:CD2	1:t:600:GLN:HA	2.55	0.40
1:v:395:MET:HE1	1:1:663:GLN:CD	2.46	0.40
1:z:353:PHE:CE2	1:z:355:ALA:HB3	2.56	0.40
1:z:507:GLN:O	1:z:509:ASN:N	2.54	0.40
1:1:353:PHE:CE2	1:1:355:ALA:HB3	2.56	0.40
1:2:471:ASN:OD1	1:2:472:GLN:N	2.53	0.40
1:4:679:ARG:NH1	1:4:683:GLU:HG2	2.35	0.40
1:5:522:LEU:HD12	1:7:435:LEU:HD22	2.01	0.40
1:7:277:CYS:SG	1:7:350:MET:HB2	2.61	0.40
1:7:507:GLN:O	1:7:509:ASN:N	2.54	0.40
1:8:277:CYS:SG	1:8:350:MET:HB2	2.61	0.40
1:A:507:GLN:O	1:A:509:ASN:N	2.54	0.40
1:E:276:HIS:CD2	1:E:600:GLN:HA	2.55	0.40
1:K:679:ARG:NH1	1:K:683:GLU:HG2	2.35	0.40
1:L:289:ASN:ND2	1:L:686:TYR:H	2.13	0.40
1:L:353:PHE:CE2	1:L:355:ALA:HB3	2.56	0.40
1:O:353:PHE:HA	1:O:354:PRO:HD3	1.94	0.40
1:Q:277:CYS:SG	1:Q:350:MET:HB2	2.61	0.40
1:T:277:CYS:SG	1:T:350:MET:HB2	2.61	0.40
1:T:679:ARG:HH21	1:T:681:ASN:CG	2.30	0.40
1:W:277:CYS:SG	1:W:350:MET:HB2	2.61	0.40
1:Y:290:ASN:HD21	1:Z:290:ASN:HD21	1.68	0.40
1:a:435:LEU:HD22	1:8:522:LEU:HD12	2.03	0.40
1:c:553:THR:O	1:o:496:LEU:HD11	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:277:CYS:SG	1:d:350:MET:HB2	2.61	0.40
1:f:277:CYS:SG	1:f:350:MET:HB2	2.61	0.40
1:h:277:CYS:SG	1:h:350:MET:HB2	2.61	0.40
1:i:281:PRO:HB2	1:l:682:PRO:HD3	2.03	0.40
1:k:507:GLN:O	1:k:509:ASN:N	2.54	0.40
1:l:507:GLN:O	1:l:509:ASN:N	2.54	0.40
1:m:213:GLN:NE2	1:s:209:ASP:HB2	2.36	0.40
1:m:276:HIS:CD2	1:m:600:GLN:HA	2.55	0.40
1:m:679:ARG:HH21	1:m:681:ASN:CG	2.30	0.40
1:n:276:HIS:CD2	1:n:600:GLN:HA	2.55	0.40
1:n:277:CYS:SG	1:n:350:MET:HB2	2.61	0.40
1:t:431:VAL:O	1:u:346:HIS:HD2	2.03	0.40
1:u:213:GLN:NE2	1:2:209:ASP:HB2	2.36	0.40
1:v:507:GLN:O	1:v:509:ASN:N	2.54	0.40
1:y:425:ARG:HD3	1:y:425:ARG:HA	1.92	0.40
1:y:507:GLN:O	1:y:509:ASN:N	2.54	0.40
1:z:277:CYS:SG	1:z:350:MET:HB2	2.61	0.40
1:1:242:TYR:OH	1:1:360:LEU:O	2.35	0.40
1:1:553:THR:O	1:2:496:LEU:HD11	2.22	0.40
1:3:353:PHE:CE2	1:3:355:ALA:HB3	2.56	0.40
1:7:281:PRO:HB2	1:8:682:PRO:HD3	2.03	0.40
1:A:353:PHE:CE2	1:A:355:ALA:HB3	2.56	0.40
1:A:679:ARG:HH21	1:A:681:ASN:CG	2.30	0.40
1:B:353:PHE:CE2	1:B:355:ALA:HB3	2.56	0.40
1:B:679:ARG:HH21	1:B:681:ASN:CG	2.30	0.40
1:D:610:THR:HA	1:P:593:GLN:NE2	2.36	0.40
1:E:561:GLY:HA3	1:E:582:ASP:HA	2.04	0.40
1:H:277:CYS:SG	1:H:350:MET:HB2	2.61	0.40
1:I:353:PHE:CE2	1:I:355:ALA:HB3	2.56	0.40
1:J:561:GLY:HA3	1:J:582:ASP:HA	2.04	0.40
1:K:415:SER:HB2	1:K:417:PHE:CE2	2.57	0.40
1:K:609:GLU:O	1:8:419:HIS:HE1	2.03	0.40
1:L:277:CYS:SG	1:L:350:MET:HB2	2.61	0.40
1:M:353:PHE:CE2	1:M:355:ALA:HB3	2.56	0.40
1:M:609:GLU:O	1:b:419:HIS:HE1	2.05	0.40
1:O:439:ASP:OD2	1:O:449:ARG:HB2	2.20	0.40
1:S:429:PRO:HB3	1:U:366:LEU:HD23	2.03	0.40
1:V:346:HIS:HD2	1:X:431:VAL:O	2.05	0.40
1:V:553:THR:O	1:e:496:LEU:HD11	2.21	0.40
1:W:415:SER:HB2	1:W:417:PHE:CE2	2.57	0.40
1:Z:425:ARG:HD3	1:Z:425:ARG:HA	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:637:THR:HG21	1:a:663:GLN:NE2	2.36	0.40
1:Z:689:ASN:N	1:Z:710[A]:ARG:HH11	2.19	0.40
1:a:277:CYS:SG	1:a:350:MET:HB2	2.61	0.40
1:a:353:PHE:CE2	1:a:355:ALA:HB3	2.56	0.40
1:a:425:ARG:HD3	1:a:425:ARG:HA	1.92	0.40
1:b:679:ARG:HH21	1:b:681:ASN:CG	2.30	0.40
1:b:679:ARG:NH1	1:b:683:GLU:HG2	2.35	0.40
1:c:445:ASN:HB2	1:o:536:ALA:O	2.20	0.40
1:d:415:SER:HB2	1:d:417:PHE:CE2	2.57	0.40
1:e:663:GLN:NE2	1:h:637:THR:HG21	2.36	0.40
1:f:679:ARG:NH1	1:f:683:GLU:HG2	2.35	0.40
1:g:289:ASN:ND2	1:g:686:TYR:H	2.13	0.40
1:g:663:GLN:CD	1:l:395:MET:HE1	2.46	0.40
1:i:610:THR:HA	1:k:593:GLN:HE22	1.85	0.40
1:l:439:ASP:OD2	1:l:449:ARG:HB2	2.20	0.40
1:m:277:CYS:SG	1:m:350:MET:HB2	2.61	0.40
1:m:425:ARG:HD3	1:m:425:ARG:HA	1.92	0.40
1:p:277:CYS:SG	1:p:350:MET:HB2	2.61	0.40
1:s:276:HIS:HB3	1:s:599:LEU:HG	2.01	0.40
1:t:277:CYS:SG	1:t:350:MET:HB2	2.61	0.40
1:t:366:LEU:HD11	1:v:425:ARG:HD2	2.04	0.40
1:t:420:ASN:ND2	1:u:386:TYR:OH	2.55	0.40
1:t:693:SER:O	1:6:379:SER:N	2.45	0.40
1:u:353:PHE:CE2	1:u:355:ALA:HB3	2.56	0.40
1:w:386:TYR:OH	1:y:420:ASN:ND2	2.54	0.40
1:x:277:CYS:SG	1:x:350:MET:HB2	2.61	0.40
1:x:420:ASN:ND2	1:y:386:TYR:OH	2.55	0.40
1:z:289:ASN:ND2	1:z:686:TYR:H	2.13	0.40
1:z:346:HIS:HD2	1:2:431:VAL:O	2.04	0.40
1:1:445:ASN:HB2	1:2:536:ALA:O	2.21	0.40
1:1:679:ARG:HH21	1:1:681:ASN:CG	2.30	0.40
1:2:329:GLN:NE2	1:2:635:LYS:HE2	2.37	0.40
1:2:425:ARG:HD3	1:2:425:ARG:HA	1.92	0.40
1:2:561:GLY:HA3	1:2:582:ASP:HA	2.04	0.40
1:3:277:CYS:SG	1:3:350:MET:HB2	2.61	0.40
1:3:425:ARG:HD3	1:3:425:ARG:HA	1.92	0.40
1:5:277:CYS:SG	1:5:350:MET:HB2	2.61	0.40
1:6:277:CYS:SG	1:6:350:MET:HB2	2.61	0.40
1:8:679:ARG:HH21	1:8:681:ASN:CG	2.30	0.40
1:A:610:THR:HA	1:I:593:GLN:NE2	2.37	0.40
1:B:242:TYR:OH	1:B:360:LEU:O	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:289:ASN:ND2	1:C:686:TYR:H	2.13	0.40
1:C:679:ARG:HH21	1:C:681:ASN:CG	2.30	0.40
1:G:277:CYS:SG	1:G:350:MET:HB2	2.61	0.40
1:H:415:SER:HB2	1:H:417:PHE:CE2	2.57	0.40
1:J:329:GLN:NE2	1:J:635:LYS:HE2	2.37	0.40
1:M:353:PHE:HA	1:M:354:PRO:HD3	1.94	0.40
1:N:507:GLN:O	1:N:509:ASN:N	2.54	0.40
1:N:679:ARG:HH21	1:N:681:ASN:CG	2.30	0.40
1:O:507:GLN:O	1:O:509:ASN:N	2.54	0.40
1:Q:276:HIS:CD2	1:Q:600:GLN:HA	2.55	0.40
1:S:353:PHE:HA	1:S:354:PRO:HD3	1.94	0.40
1:V:415:SER:HB2	1:V:417:PHE:CE2	2.57	0.40
1:V:425:ARG:HD3	1:V:425:ARG:HA	1.92	0.40
1:V:507:GLN:O	1:V:509:ASN:N	2.54	0.40
1:Y:359:MET:HE3	1:4:647:PHE:HA	2.03	0.40
1:Z:353:PHE:CE2	1:Z:355:ALA:HB3	2.56	0.40
1:Z:679:ARG:HH21	1:Z:681:ASN:CG	2.30	0.40
1:a:679:ARG:HH21	1:a:681:ASN:CG	2.30	0.40
1:a:684:ILE:HD11	1:8:381:PRO:HB2	2.03	0.40
1:b:329:GLN:NE2	1:b:635:LYS:HE2	2.37	0.40
1:e:290:ASN:HD21	1:f:290:ASN:HD21	1.69	0.40
1:f:679:ARG:HH21	1:f:681:ASN:CG	2.30	0.40
1:g:679:ARG:HH21	1:g:681:ASN:CG	2.29	0.40
1:h:213:GLN:NE2	1:i:209:ASP:HB2	2.36	0.40
1:i:679:ARG:HH21	1:i:681:ASN:CG	2.30	0.40
1:j:687:THR:HG1	1:j:690[B]:PHE:HE1	1.63	0.40
1:j:692:ASN:OD1	1:x:380:THR:HA	2.22	0.40
1:l:647:PHE:HA	1:n:359:MET:HE3	2.04	0.40
1:m:429:PRO:HB3	1:n:366:LEU:HD23	2.03	0.40
1:m:684:ILE:HD11	1:n:381:PRO:HB2	2.03	0.40
1:n:415:SER:HB2	1:n:417:PHE:CE2	2.57	0.40
1:p:415:SER:HB2	1:p:417:PHE:CE2	2.57	0.40
1:p:507:GLN:O	1:p:509:ASN:N	2.54	0.40
1:q:663:GLN:CD	1:y:395:MET:HE1	2.46	0.40
1:t:425:ARG:HD2	1:u:366:LEU:HD11	2.04	0.40
1:u:682:PRO:HD3	1:l:281:PRO:HB2	2.03	0.40
1:v:353:PHE:CE2	1:v:355:ALA:HB3	2.56	0.40
1:v:679:ARG:HH21	1:v:681:ASN:CG	2.30	0.40
1:w:346:HIS:HD2	1:y:431:VAL:O	2.04	0.40
1:w:366:LEU:HD11	1:y:425:ARG:HD2	2.04	0.40
1:x:504:ALA:HA	1:x:505:PRO:HA	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:359:MET:HE3	1:8:647:PHE:HA	2.04	0.40
1:4:285:GLN:HG3	1:4:686:TYR:HD2	1.85	0.40
1:4:415:SER:HB2	1:4:417:PHE:CE2	2.57	0.40
1:5:415:SER:HB2	1:5:417:PHE:CE2	2.57	0.40
1:6:415:SER:HB2	1:6:417:PHE:CE2	2.57	0.40
1:8:425:ARG:HD3	1:8:425:ARG:HA	1.92	0.40
1:C:353:PHE:CE2	1:C:355:ALA:HB3	2.56	0.40
1:D:507:GLN:O	1:D:509:ASN:N	2.54	0.40
1:D:553:THR:O	1:N:496:LEU:HD11	2.21	0.40
1:E:277:CYS:SG	1:E:350:MET:HB2	2.61	0.40
1:G:561:GLY:HA3	1:G:582:ASP:HA	2.04	0.40
1:G:593:GLN:NE2	1:I:610:THR:HA	2.36	0.40
1:H:637:THR:HG21	1:Z:663:GLN:NE2	2.37	0.40
1:M:367:THR:HG21	1:M:384:ALA:N	2.25	0.40
1:M:663:GLN:NE2	1:N:637:THR:HG21	2.36	0.40
1:Q:504:ALA:HA	1:Q:505:PRO:HA	1.86	0.40
1:R:415:SER:HB2	1:R:417:PHE:CE2	2.57	0.40
1:S:290:ASN:HD21	1:T:290:ASN:HD21	1.68	0.40
1:T:276:HIS:CD2	1:T:600:GLN:HA	2.55	0.40
1:T:329:GLN:NE2	1:T:635:LYS:HE2	2.37	0.40
1:T:663:GLN:NE2	1:U:637:THR:HG21	2.37	0.40
1:V:277:CYS:SG	1:V:350:MET:HB2	2.61	0.40
1:W:276:HIS:CD2	1:W:600:GLN:HA	2.55	0.40
1:a:281:PRO:HB2	1:3:682:PRO:HD3	2.04	0.40
1:a:561:GLY:HA3	1:a:582:ASP:HA	2.04	0.40
1:a:690[B]:PHE:HZ	1:3:684:ILE:HG23	1.83	0.40
1:b:213:GLN:NE2	1:o:209:ASP:HB2	2.36	0.40
1:b:663:GLN:NE2	1:o:637:THR:HG21	2.36	0.40
1:c:277:CYS:SG	1:c:350:MET:HB2	2.61	0.40
1:c:419:HIS:HE1	1:o:609:GLU:O	2.04	0.40
1:e:277:CYS:SG	1:e:350:MET:HB2	2.61	0.40
1:f:553:THR:O	1:h:496:LEU:HD11	2.21	0.40
1:h:353:PHE:HA	1:h:354:PRO:HD3	1.94	0.40
1:i:507:GLN:O	1:i:509:ASN:N	2.54	0.40
1:i:593:GLN:HE22	1:j:610:THR:HA	1.87	0.40
1:j:329:GLN:NE2	1:j:635:LYS:HE2	2.37	0.40
1:j:395:MET:HE1	1:l:663:GLN:CD	2.46	0.40
1:j:663:GLN:CD	1:x:395:MET:HE1	2.47	0.40
1:m:329:GLN:NE2	1:m:635:LYS:HE2	2.37	0.40
1:m:359:MET:HE3	1:s:647:PHE:HA	2.04	0.40
1:o:415:SER:HB2	1:o:417:PHE:CE2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:329:GLN:NE2	1:p:635:LYS:HE2	2.37	0.40
1:p:425:ARG:HD3	1:p:425:ARG:HA	1.92	0.40
1:q:431:VAL:O	1:r:346:HIS:HD2	2.03	0.40
1:t:381:PRO:HB2	1:v:684:ILE:HD11	2.04	0.40
1:t:561:GLY:HA3	1:t:582:ASP:HA	2.04	0.40
1:w:276:HIS:CD2	1:w:600:GLN:HA	2.55	0.40
1:w:561:GLY:HA3	1:w:582:ASP:HA	2.04	0.40
1:3:561:GLY:HA3	1:3:582:ASP:HA	2.04	0.40
1:3:679:ARG:HH21	1:3:681:ASN:CG	2.30	0.40
1:8:353:PHE:CE2	1:8:355:ALA:HB3	2.56	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	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	2	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	3	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	4	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	5	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	6	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	7	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	8	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	A	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	B	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	C	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	D	514/513 (100%)	501 (98%)	13 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	F	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	G	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	H	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	I	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	J	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	K	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	L	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	M	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	N	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	O	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	P	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	Q	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	R	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	S	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	T	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	U	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	V	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	W	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	X	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	Y	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	Z	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	a	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	b	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	c	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	d	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	e	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	f	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	g	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	h	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	i	514/513 (100%)	501 (98%)	13 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	j	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	k	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	l	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	m	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	n	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	o	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	p	514/513 (100%)	500 (97%)	14 (3%)	0	100	100
1	q	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	r	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	s	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	t	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	u	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	v	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	w	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	x	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	y	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
1	z	514/513 (100%)	501 (98%)	13 (2%)	0	100	100
All	All	30840/30780 (100%)	30048 (97%)	792 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	2	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	3	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	4	442/439 (101%)	440 (100%)	2 (0%)	86	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	5	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	6	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	7	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	8	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	A	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	B	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	C	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	D	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	E	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	F	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	G	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	H	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	I	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	J	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	K	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	L	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	M	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	N	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	O	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	P	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	Q	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	R	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	S	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	T	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	U	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	V	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	W	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	X	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	Y	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	Z	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	a	442/439 (101%)	440 (100%)	2 (0%)	86	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	b	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	c	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	d	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	e	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	f	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	g	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	h	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	i	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	j	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	k	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	l	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	m	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	n	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	o	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	p	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	q	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	r	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	s	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	t	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	u	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	v	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	w	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	x	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	y	442/439 (101%)	440 (100%)	2 (0%)	86	93
1	z	442/439 (101%)	440 (100%)	2 (0%)	86	93
All	All	26520/26340 (101%)	26400 (100%)	120 (0%)	91	93

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	710[A]	ARG
1	A	710[B]	ARG
1	B	710[A]	ARG

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Mol	Chain	Res	Type
1	B	710[B]	ARG
1	C	710[A]	ARG
1	C	710[B]	ARG
1	D	710[A]	ARG
1	D	710[B]	ARG
1	E	710[A]	ARG
1	E	710[B]	ARG
1	F	710[A]	ARG
1	F	710[B]	ARG
1	G	710[A]	ARG
1	G	710[B]	ARG
1	H	710[A]	ARG
1	H	710[B]	ARG
1	I	710[A]	ARG
1	I	710[B]	ARG
1	J	710[A]	ARG
1	J	710[B]	ARG
1	K	710[A]	ARG
1	K	710[B]	ARG
1	L	710[A]	ARG
1	L	710[B]	ARG
1	M	710[A]	ARG
1	M	710[B]	ARG
1	N	710[A]	ARG
1	N	710[B]	ARG
1	O	710[A]	ARG
1	O	710[B]	ARG
1	P	710[A]	ARG
1	P	710[B]	ARG
1	Q	710[A]	ARG
1	Q	710[B]	ARG
1	R	710[A]	ARG
1	R	710[B]	ARG
1	S	710[A]	ARG
1	S	710[B]	ARG
1	T	710[A]	ARG
1	T	710[B]	ARG
1	U	710[A]	ARG
1	U	710[B]	ARG
1	V	710[A]	ARG
1	V	710[B]	ARG
1	W	710[A]	ARG

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Mol	Chain	Res	Type
1	W	710[B]	ARG
1	X	710[A]	ARG
1	X	710[B]	ARG
1	Y	710[A]	ARG
1	Y	710[B]	ARG
1	Z	710[A]	ARG
1	Z	710[B]	ARG
1	a	710[A]	ARG
1	a	710[B]	ARG
1	b	710[A]	ARG
1	b	710[B]	ARG
1	c	710[A]	ARG
1	c	710[B]	ARG
1	d	710[A]	ARG
1	d	710[B]	ARG
1	e	710[A]	ARG
1	e	710[B]	ARG
1	f	710[A]	ARG
1	f	710[B]	ARG
1	g	710[A]	ARG
1	g	710[B]	ARG
1	h	710[A]	ARG
1	h	710[B]	ARG
1	i	710[A]	ARG
1	i	710[B]	ARG
1	j	710[A]	ARG
1	j	710[B]	ARG
1	k	710[A]	ARG
1	k	710[B]	ARG
1	l	710[A]	ARG
1	l	710[B]	ARG
1	m	710[A]	ARG
1	m	710[B]	ARG
1	n	710[A]	ARG
1	n	710[B]	ARG
1	o	710[A]	ARG
1	o	710[B]	ARG
1	p	710[A]	ARG
1	p	710[B]	ARG
1	q	710[A]	ARG
1	q	710[B]	ARG
1	r	710[A]	ARG

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Mol	Chain	Res	Type
1	r	710[B]	ARG
1	s	710[A]	ARG
1	s	710[B]	ARG
1	t	710[A]	ARG
1	t	710[B]	ARG
1	u	710[A]	ARG
1	u	710[B]	ARG
1	v	710[A]	ARG
1	v	710[B]	ARG
1	w	710[A]	ARG
1	w	710[B]	ARG
1	x	710[A]	ARG
1	x	710[B]	ARG
1	y	710[A]	ARG
1	y	710[B]	ARG
1	z	710[A]	ARG
1	z	710[B]	ARG
1	1	710[A]	ARG
1	1	710[B]	ARG
1	2	710[A]	ARG
1	2	710[B]	ARG
1	3	710[A]	ARG
1	3	710[B]	ARG
1	4	710[A]	ARG
1	4	710[B]	ARG
1	5	710[A]	ARG
1	5	710[B]	ARG
1	6	710[A]	ARG
1	6	710[B]	ARG
1	7	710[A]	ARG
1	7	710[B]	ARG
1	8	710[A]	ARG
1	8	710[B]	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (952) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	213	GLN
1	A	217	ASN
1	A	219	HIS
1	A	249	GLN
1	A	278	HIS

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Mol	Chain	Res	Type
1	A	289	ASN
1	A	290	ASN
1	A	329	GLN
1	A	346	HIS
1	A	482	ASN
1	A	507	GLN
1	A	570	GLN
1	A	593	GLN
1	A	631	GLN
1	A	695	ASN
1	B	213	GLN
1	B	217	ASN
1	B	219	HIS
1	B	249	GLN
1	B	278	HIS
1	B	289	ASN
1	B	290	ASN
1	B	329	GLN
1	B	336	HIS
1	B	346	HIS
1	B	420	ASN
1	B	482	ASN
1	B	507	GLN
1	B	570	GLN
1	B	593	GLN
1	B	631	GLN
1	B	695	ASN
1	C	213	GLN
1	C	217	ASN
1	C	219	HIS
1	C	249	GLN
1	C	278	HIS
1	C	289	ASN
1	C	290	ASN
1	C	329	GLN
1	C	336	HIS
1	C	346	HIS
1	C	420	ASN
1	C	482	ASN
1	C	507	GLN
1	C	593	GLN
1	C	631	GLN

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Mol	Chain	Res	Type
1	C	695	ASN
1	D	213	GLN
1	D	217	ASN
1	D	219	HIS
1	D	249	GLN
1	D	278	HIS
1	D	289	ASN
1	D	290	ASN
1	D	329	GLN
1	D	336	HIS
1	D	346	HIS
1	D	420	ASN
1	D	484	GLN
1	D	507	GLN
1	D	593	GLN
1	D	631	GLN
1	D	695	ASN
1	E	213	GLN
1	E	217	ASN
1	E	219	HIS
1	E	249	GLN
1	E	278	HIS
1	E	289	ASN
1	E	290	ASN
1	E	329	GLN
1	E	336	HIS
1	E	346	HIS
1	E	420	ASN
1	E	482	ASN
1	E	507	GLN
1	E	593	GLN
1	E	631	GLN
1	E	695	ASN
1	F	213	GLN
1	F	217	ASN
1	F	219	HIS
1	F	249	GLN
1	F	278	HIS
1	F	289	ASN
1	F	290	ASN
1	F	329	GLN
1	F	336	HIS

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Mol	Chain	Res	Type
1	F	346	HIS
1	F	482	ASN
1	F	507	GLN
1	F	570	GLN
1	F	593	GLN
1	F	631	GLN
1	F	695	ASN
1	G	213	GLN
1	G	217	ASN
1	G	219	HIS
1	G	249	GLN
1	G	278	HIS
1	G	289	ASN
1	G	290	ASN
1	G	329	GLN
1	G	336	HIS
1	G	346	HIS
1	G	376	ASN
1	G	482	ASN
1	G	507	GLN
1	G	593	GLN
1	G	631	GLN
1	G	695	ASN
1	H	213	GLN
1	H	217	ASN
1	H	219	HIS
1	H	249	GLN
1	H	278	HIS
1	H	289	ASN
1	H	290	ASN
1	H	329	GLN
1	H	336	HIS
1	H	346	HIS
1	H	420	ASN
1	H	482	ASN
1	H	507	GLN
1	H	570	GLN
1	H	593	GLN
1	H	631	GLN
1	H	695	ASN
1	I	213	GLN
1	I	217	ASN

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Mol	Chain	Res	Type
1	I	219	HIS
1	I	249	GLN
1	I	278	HIS
1	I	289	ASN
1	I	290	ASN
1	I	307	GLN
1	I	329	GLN
1	I	346	HIS
1	I	420	ASN
1	I	482	ASN
1	I	507	GLN
1	I	570	GLN
1	I	593	GLN
1	I	631	GLN
1	I	695	ASN
1	J	213	GLN
1	J	217	ASN
1	J	219	HIS
1	J	249	GLN
1	J	278	HIS
1	J	289	ASN
1	J	290	ASN
1	J	329	GLN
1	J	336	HIS
1	J	346	HIS
1	J	376	ASN
1	J	420	ASN
1	J	482	ASN
1	J	507	GLN
1	J	593	GLN
1	J	631	GLN
1	J	695	ASN
1	K	213	GLN
1	K	217	ASN
1	K	219	HIS
1	K	249	GLN
1	K	278	HIS
1	K	289	ASN
1	K	290	ASN
1	K	329	GLN
1	K	346	HIS
1	K	420	ASN

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Mol	Chain	Res	Type
1	K	482	ASN
1	K	507	GLN
1	K	593	GLN
1	K	631	GLN
1	K	695	ASN
1	L	213	GLN
1	L	217	ASN
1	L	219	HIS
1	L	249	GLN
1	L	278	HIS
1	L	289	ASN
1	L	290	ASN
1	L	307	GLN
1	L	329	GLN
1	L	336	HIS
1	L	346	HIS
1	L	420	ASN
1	L	482	ASN
1	L	507	GLN
1	L	570	GLN
1	L	593	GLN
1	L	631	GLN
1	L	695	ASN
1	M	213	GLN
1	M	217	ASN
1	M	219	HIS
1	M	249	GLN
1	M	278	HIS
1	M	289	ASN
1	M	290	ASN
1	M	329	GLN
1	M	346	HIS
1	M	376	ASN
1	M	482	ASN
1	M	507	GLN
1	M	570	GLN
1	M	593	GLN
1	M	631	GLN
1	M	695	ASN
1	N	213	GLN
1	N	217	ASN
1	N	219	HIS

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Mol	Chain	Res	Type
1	N	249	GLN
1	N	278	HIS
1	N	289	ASN
1	N	290	ASN
1	N	329	GLN
1	N	346	HIS
1	N	420	ASN
1	N	482	ASN
1	N	507	GLN
1	N	570	GLN
1	N	593	GLN
1	N	631	GLN
1	N	695	ASN
1	O	213	GLN
1	O	217	ASN
1	O	219	HIS
1	O	249	GLN
1	O	278	HIS
1	O	289	ASN
1	O	290	ASN
1	O	329	GLN
1	O	336	HIS
1	O	346	HIS
1	O	376	ASN
1	O	420	ASN
1	O	484	GLN
1	O	507	GLN
1	O	593	GLN
1	O	631	GLN
1	O	695	ASN
1	P	213	GLN
1	P	217	ASN
1	P	219	HIS
1	P	249	GLN
1	P	278	HIS
1	P	289	ASN
1	P	290	ASN
1	P	329	GLN
1	P	346	HIS
1	P	376	ASN
1	P	420	ASN
1	P	482	ASN

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Mol	Chain	Res	Type
1	P	507	GLN
1	P	570	GLN
1	P	593	GLN
1	P	631	GLN
1	P	695	ASN
1	Q	213	GLN
1	Q	217	ASN
1	Q	219	HIS
1	Q	249	GLN
1	Q	278	HIS
1	Q	289	ASN
1	Q	290	ASN
1	Q	329	GLN
1	Q	346	HIS
1	Q	376	ASN
1	Q	420	ASN
1	Q	484	GLN
1	Q	507	GLN
1	Q	570	GLN
1	Q	593	GLN
1	Q	631	GLN
1	Q	695	ASN
1	R	213	GLN
1	R	217	ASN
1	R	219	HIS
1	R	249	GLN
1	R	278	HIS
1	R	289	ASN
1	R	290	ASN
1	R	329	GLN
1	R	346	HIS
1	R	420	ASN
1	R	482	ASN
1	R	507	GLN
1	R	593	GLN
1	R	631	GLN
1	R	695	ASN
1	S	213	GLN
1	S	217	ASN
1	S	219	HIS
1	S	249	GLN
1	S	278	HIS

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Mol	Chain	Res	Type
1	S	289	ASN
1	S	290	ASN
1	S	329	GLN
1	S	346	HIS
1	S	420	ASN
1	S	482	ASN
1	S	507	GLN
1	S	593	GLN
1	S	631	GLN
1	S	695	ASN
1	T	213	GLN
1	T	217	ASN
1	T	219	HIS
1	T	249	GLN
1	T	278	HIS
1	T	289	ASN
1	T	290	ASN
1	T	329	GLN
1	T	336	HIS
1	T	346	HIS
1	T	420	ASN
1	T	482	ASN
1	T	507	GLN
1	T	570	GLN
1	T	593	GLN
1	T	631	GLN
1	T	695	ASN
1	U	213	GLN
1	U	217	ASN
1	U	219	HIS
1	U	249	GLN
1	U	278	HIS
1	U	289	ASN
1	U	290	ASN
1	U	329	GLN
1	U	346	HIS
1	U	482	ASN
1	U	507	GLN
1	U	570	GLN
1	U	593	GLN
1	U	631	GLN
1	U	695	ASN

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Mol	Chain	Res	Type
1	V	213	GLN
1	V	217	ASN
1	V	219	HIS
1	V	249	GLN
1	V	278	HIS
1	V	289	ASN
1	V	290	ASN
1	V	329	GLN
1	V	346	HIS
1	V	420	ASN
1	V	482	ASN
1	V	507	GLN
1	V	509	ASN
1	V	570	GLN
1	V	593	GLN
1	V	631	GLN
1	V	695	ASN
1	W	213	GLN
1	W	217	ASN
1	W	219	HIS
1	W	249	GLN
1	W	278	HIS
1	W	289	ASN
1	W	290	ASN
1	W	329	GLN
1	W	346	HIS
1	W	376	ASN
1	W	420	ASN
1	W	482	ASN
1	W	507	GLN
1	W	570	GLN
1	W	593	GLN
1	W	631	GLN
1	W	695	ASN
1	X	213	GLN
1	X	217	ASN
1	X	219	HIS
1	X	249	GLN
1	X	278	HIS
1	X	289	ASN
1	X	290	ASN
1	X	329	GLN

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Mol	Chain	Res	Type
1	X	346	HIS
1	X	420	ASN
1	X	482	ASN
1	X	507	GLN
1	X	593	GLN
1	X	631	GLN
1	X	695	ASN
1	Y	213	GLN
1	Y	217	ASN
1	Y	219	HIS
1	Y	249	GLN
1	Y	278	HIS
1	Y	289	ASN
1	Y	290	ASN
1	Y	329	GLN
1	Y	346	HIS
1	Y	420	ASN
1	Y	482	ASN
1	Y	507	GLN
1	Y	570	GLN
1	Y	593	GLN
1	Y	631	GLN
1	Y	695	ASN
1	Z	213	GLN
1	Z	217	ASN
1	Z	219	HIS
1	Z	249	GLN
1	Z	278	HIS
1	Z	289	ASN
1	Z	290	ASN
1	Z	329	GLN
1	Z	346	HIS
1	Z	420	ASN
1	Z	482	ASN
1	Z	507	GLN
1	Z	593	GLN
1	Z	631	GLN
1	Z	695	ASN
1	a	213	GLN
1	a	217	ASN
1	a	219	HIS
1	a	249	GLN

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Mol	Chain	Res	Type
1	a	278	HIS
1	a	289	ASN
1	a	290	ASN
1	a	329	GLN
1	a	346	HIS
1	a	420	ASN
1	a	482	ASN
1	a	507	GLN
1	a	593	GLN
1	a	631	GLN
1	a	695	ASN
1	b	213	GLN
1	b	217	ASN
1	b	219	HIS
1	b	249	GLN
1	b	278	HIS
1	b	289	ASN
1	b	290	ASN
1	b	329	GLN
1	b	346	HIS
1	b	420	ASN
1	b	482	ASN
1	b	507	GLN
1	b	593	GLN
1	b	631	GLN
1	b	695	ASN
1	c	213	GLN
1	c	217	ASN
1	c	219	HIS
1	c	249	GLN
1	c	278	HIS
1	c	289	ASN
1	c	290	ASN
1	c	329	GLN
1	c	336	HIS
1	c	346	HIS
1	c	420	ASN
1	c	482	ASN
1	c	507	GLN
1	c	593	GLN
1	c	631	GLN
1	c	695	ASN

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Mol	Chain	Res	Type
1	d	213	GLN
1	d	217	ASN
1	d	219	HIS
1	d	249	GLN
1	d	278	HIS
1	d	289	ASN
1	d	290	ASN
1	d	329	GLN
1	d	346	HIS
1	d	420	ASN
1	d	484	GLN
1	d	507	GLN
1	d	593	GLN
1	d	631	GLN
1	d	695	ASN
1	e	213	GLN
1	e	217	ASN
1	e	219	HIS
1	e	249	GLN
1	e	278	HIS
1	e	289	ASN
1	e	290	ASN
1	e	329	GLN
1	e	346	HIS
1	e	420	ASN
1	e	482	ASN
1	e	507	GLN
1	e	593	GLN
1	e	631	GLN
1	e	695	ASN
1	f	213	GLN
1	f	217	ASN
1	f	219	HIS
1	f	249	GLN
1	f	278	HIS
1	f	289	ASN
1	f	290	ASN
1	f	329	GLN
1	f	346	HIS
1	f	420	ASN
1	f	482	ASN
1	f	507	GLN

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Mol	Chain	Res	Type
1	f	593	GLN
1	f	631	GLN
1	f	695	ASN
1	g	213	GLN
1	g	217	ASN
1	g	219	HIS
1	g	249	GLN
1	g	278	HIS
1	g	289	ASN
1	g	290	ASN
1	g	329	GLN
1	g	336	HIS
1	g	346	HIS
1	g	420	ASN
1	g	482	ASN
1	g	507	GLN
1	g	593	GLN
1	g	631	GLN
1	g	695	ASN
1	h	213	GLN
1	h	217	ASN
1	h	219	HIS
1	h	249	GLN
1	h	278	HIS
1	h	289	ASN
1	h	290	ASN
1	h	329	GLN
1	h	346	HIS
1	h	376	ASN
1	h	420	ASN
1	h	484	GLN
1	h	507	GLN
1	h	593	GLN
1	h	631	GLN
1	h	695	ASN
1	i	213	GLN
1	i	217	ASN
1	i	219	HIS
1	i	249	GLN
1	i	278	HIS
1	i	289	ASN
1	i	290	ASN

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Mol	Chain	Res	Type
1	i	329	GLN
1	i	346	HIS
1	i	420	ASN
1	i	482	ASN
1	i	507	GLN
1	i	593	GLN
1	i	631	GLN
1	i	695	ASN
1	j	213	GLN
1	j	217	ASN
1	j	219	HIS
1	j	249	GLN
1	j	278	HIS
1	j	289	ASN
1	j	290	ASN
1	j	329	GLN
1	j	336	HIS
1	j	346	HIS
1	j	376	ASN
1	j	420	ASN
1	j	484	GLN
1	j	507	GLN
1	j	593	GLN
1	j	631	GLN
1	j	695	ASN
1	k	213	GLN
1	k	217	ASN
1	k	219	HIS
1	k	249	GLN
1	k	278	HIS
1	k	289	ASN
1	k	290	ASN
1	k	329	GLN
1	k	346	HIS
1	k	420	ASN
1	k	484	GLN
1	k	507	GLN
1	k	593	GLN
1	k	631	GLN
1	k	695	ASN
1	l	213	GLN
1	l	217	ASN

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Mol	Chain	Res	Type
1	l	219	HIS
1	l	249	GLN
1	l	278	HIS
1	l	289	ASN
1	l	290	ASN
1	l	329	GLN
1	l	346	HIS
1	l	376	ASN
1	l	420	ASN
1	l	484	GLN
1	l	507	GLN
1	l	509	ASN
1	l	593	GLN
1	l	631	GLN
1	l	695	ASN
1	m	213	GLN
1	m	217	ASN
1	m	219	HIS
1	m	249	GLN
1	m	278	HIS
1	m	289	ASN
1	m	290	ASN
1	m	329	GLN
1	m	336	HIS
1	m	346	HIS
1	m	420	ASN
1	m	484	GLN
1	m	507	GLN
1	m	593	GLN
1	m	631	GLN
1	m	695	ASN
1	n	213	GLN
1	n	217	ASN
1	n	219	HIS
1	n	249	GLN
1	n	278	HIS
1	n	289	ASN
1	n	290	ASN
1	n	329	GLN
1	n	346	HIS
1	n	420	ASN
1	n	484	GLN

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Mol	Chain	Res	Type
1	n	507	GLN
1	n	570	GLN
1	n	593	GLN
1	n	631	GLN
1	n	695	ASN
1	o	213	GLN
1	o	217	ASN
1	o	219	HIS
1	o	249	GLN
1	o	278	HIS
1	o	289	ASN
1	o	290	ASN
1	o	329	GLN
1	o	346	HIS
1	o	420	ASN
1	o	482	ASN
1	o	507	GLN
1	o	593	GLN
1	o	631	GLN
1	o	695	ASN
1	p	213	GLN
1	p	219	HIS
1	p	249	GLN
1	p	278	HIS
1	p	289	ASN
1	p	290	ASN
1	p	329	GLN
1	p	346	HIS
1	p	420	ASN
1	p	482	ASN
1	p	507	GLN
1	p	593	GLN
1	p	631	GLN
1	p	695	ASN
1	q	213	GLN
1	q	217	ASN
1	q	219	HIS
1	q	249	GLN
1	q	278	HIS
1	q	289	ASN
1	q	290	ASN
1	q	329	GLN

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Mol	Chain	Res	Type
1	q	346	HIS
1	q	420	ASN
1	q	482	ASN
1	q	507	GLN
1	q	593	GLN
1	q	631	GLN
1	q	695	ASN
1	r	213	GLN
1	r	217	ASN
1	r	219	HIS
1	r	249	GLN
1	r	278	HIS
1	r	289	ASN
1	r	290	ASN
1	r	329	GLN
1	r	346	HIS
1	r	420	ASN
1	r	482	ASN
1	r	507	GLN
1	r	593	GLN
1	r	631	GLN
1	r	695	ASN
1	s	213	GLN
1	s	217	ASN
1	s	219	HIS
1	s	249	GLN
1	s	278	HIS
1	s	289	ASN
1	s	290	ASN
1	s	329	GLN
1	s	346	HIS
1	s	376	ASN
1	s	420	ASN
1	s	482	ASN
1	s	507	GLN
1	s	593	GLN
1	s	631	GLN
1	s	695	ASN
1	t	213	GLN
1	t	217	ASN
1	t	219	HIS
1	t	249	GLN

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Mol	Chain	Res	Type
1	t	278	HIS
1	t	289	ASN
1	t	290	ASN
1	t	329	GLN
1	t	336	HIS
1	t	346	HIS
1	t	376	ASN
1	t	420	ASN
1	t	482	ASN
1	t	507	GLN
1	t	593	GLN
1	t	631	GLN
1	t	695	ASN
1	u	213	GLN
1	u	219	HIS
1	u	249	GLN
1	u	278	HIS
1	u	289	ASN
1	u	290	ASN
1	u	329	GLN
1	u	346	HIS
1	u	420	ASN
1	u	484	GLN
1	u	507	GLN
1	u	593	GLN
1	u	631	GLN
1	u	695	ASN
1	v	213	GLN
1	v	217	ASN
1	v	219	HIS
1	v	249	GLN
1	v	278	HIS
1	v	289	ASN
1	v	290	ASN
1	v	329	GLN
1	v	346	HIS
1	v	420	ASN
1	v	484	GLN
1	v	507	GLN
1	v	593	GLN
1	v	631	GLN
1	v	695	ASN

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Mol	Chain	Res	Type
1	w	213	GLN
1	w	219	HIS
1	w	249	GLN
1	w	278	HIS
1	w	289	ASN
1	w	290	ASN
1	w	329	GLN
1	w	336	HIS
1	w	346	HIS
1	w	420	ASN
1	w	484	GLN
1	w	507	GLN
1	w	593	GLN
1	w	631	GLN
1	w	695	ASN
1	x	213	GLN
1	x	217	ASN
1	x	219	HIS
1	x	249	GLN
1	x	278	HIS
1	x	289	ASN
1	x	290	ASN
1	x	329	GLN
1	x	346	HIS
1	x	376	ASN
1	x	420	ASN
1	x	484	GLN
1	x	507	GLN
1	x	593	GLN
1	x	631	GLN
1	x	695	ASN
1	y	213	GLN
1	y	217	ASN
1	y	219	HIS
1	y	249	GLN
1	y	278	HIS
1	y	289	ASN
1	y	290	ASN
1	y	329	GLN
1	y	336	HIS
1	y	346	HIS
1	y	376	ASN

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Mol	Chain	Res	Type
1	y	420	ASN
1	y	482	ASN
1	y	507	GLN
1	y	593	GLN
1	y	631	GLN
1	y	695	ASN
1	z	213	GLN
1	z	217	ASN
1	z	219	HIS
1	z	249	GLN
1	z	278	HIS
1	z	289	ASN
1	z	290	ASN
1	z	329	GLN
1	z	336	HIS
1	z	346	HIS
1	z	376	ASN
1	z	420	ASN
1	z	482	ASN
1	z	507	GLN
1	z	593	GLN
1	z	631	GLN
1	z	695	ASN
1	1	213	GLN
1	1	217	ASN
1	1	219	HIS
1	1	249	GLN
1	1	278	HIS
1	1	289	ASN
1	1	290	ASN
1	1	329	GLN
1	1	336	HIS
1	1	346	HIS
1	1	420	ASN
1	1	482	ASN
1	1	507	GLN
1	1	593	GLN
1	1	631	GLN
1	1	695	ASN
1	2	213	GLN
1	2	217	ASN
1	2	219	HIS

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Mol	Chain	Res	Type
1	2	249	GLN
1	2	278	HIS
1	2	289	ASN
1	2	290	ASN
1	2	329	GLN
1	2	346	HIS
1	2	376	ASN
1	2	420	ASN
1	2	482	ASN
1	2	507	GLN
1	2	593	GLN
1	2	631	GLN
1	2	695	ASN
1	3	213	GLN
1	3	217	ASN
1	3	219	HIS
1	3	249	GLN
1	3	278	HIS
1	3	289	ASN
1	3	290	ASN
1	3	307	GLN
1	3	329	GLN
1	3	346	HIS
1	3	420	ASN
1	3	482	ASN
1	3	507	GLN
1	3	570	GLN
1	3	593	GLN
1	3	631	GLN
1	3	695	ASN
1	4	213	GLN
1	4	217	ASN
1	4	219	HIS
1	4	249	GLN
1	4	278	HIS
1	4	289	ASN
1	4	290	ASN
1	4	329	GLN
1	4	336	HIS
1	4	346	HIS
1	4	420	ASN
1	4	484	GLN

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Mol	Chain	Res	Type
1	4	507	GLN
1	4	593	GLN
1	4	631	GLN
1	4	695	ASN
1	5	213	GLN
1	5	217	ASN
1	5	219	HIS
1	5	249	GLN
1	5	278	HIS
1	5	289	ASN
1	5	290	ASN
1	5	329	GLN
1	5	346	HIS
1	5	420	ASN
1	5	484	GLN
1	5	507	GLN
1	5	593	GLN
1	5	631	GLN
1	5	695	ASN
1	6	213	GLN
1	6	217	ASN
1	6	219	HIS
1	6	249	GLN
1	6	278	HIS
1	6	289	ASN
1	6	290	ASN
1	6	329	GLN
1	6	346	HIS
1	6	376	ASN
1	6	420	ASN
1	6	484	GLN
1	6	507	GLN
1	6	593	GLN
1	6	631	GLN
1	6	695	ASN
1	7	213	GLN
1	7	217	ASN
1	7	219	HIS
1	7	249	GLN
1	7	278	HIS
1	7	289	ASN
1	7	290	ASN

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Mol	Chain	Res	Type
1	7	329	GLN
1	7	346	HIS
1	7	420	ASN
1	7	482	ASN
1	7	507	GLN
1	7	593	GLN
1	7	631	GLN
1	7	695	ASN
1	8	213	GLN
1	8	217	ASN
1	8	219	HIS
1	8	249	GLN
1	8	278	HIS
1	8	289	ASN
1	8	290	ASN
1	8	329	GLN
1	8	346	HIS
1	8	420	ASN
1	8	482	ASN
1	8	507	GLN
1	8	593	GLN
1	8	631	GLN
1	8	695	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

60 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	D5M	O	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	p	801	-	17,23,24	0.66	0	17,33,36	0.71	1 (5%)
2	D5M	H	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	j	801	-	17,23,24	0.64	0	17,33,36	0.69	1 (5%)
2	D5M	D	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	r	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	d	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	v	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	l	801	-	17,23,24	0.66	0	17,33,36	0.69	1 (5%)
2	D5M	8	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	B	801	-	17,23,24	0.64	0	17,33,36	0.71	1 (5%)
2	D5M	F	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	G	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	m	801	-	17,23,24	0.66	0	17,33,36	0.70	1 (5%)
2	D5M	3	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	5	801	-	17,23,24	0.64	0	17,33,36	0.69	1 (5%)
2	D5M	b	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	u	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	R	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	f	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	w	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	o	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	V	801	-	17,23,24	0.67	0	17,33,36	0.70	1 (5%)
2	D5M	4	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	U	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	L	801	-	17,23,24	0.64	0	17,33,36	0.71	1 (5%)
2	D5M	k	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	a	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	P	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	D5M	y	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	6	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	q	801	-	17,23,24	0.66	0	17,33,36	0.69	1 (5%)
2	D5M	Y	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	x	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	T	801	-	17,23,24	0.66	0	17,33,36	0.71	1 (5%)
2	D5M	2	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	I	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	X	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	Z	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	J	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	c	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	e	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	i	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	t	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	n	801	-	17,23,24	0.64	0	17,33,36	0.70	1 (5%)
2	D5M	K	801	-	17,23,24	0.66	0	17,33,36	0.71	1 (5%)
2	D5M	Q	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	C	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	l	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	N	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	g	801	-	17,23,24	0.66	0	17,33,36	0.71	1 (5%)
2	D5M	z	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	A	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	h	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	E	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	S	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	s	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	7	801	-	17,23,24	0.65	0	17,33,36	0.70	1 (5%)
2	D5M	W	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)
2	D5M	M	801	-	17,23,24	0.65	0	17,33,36	0.71	1 (5%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	O	801	-	-	1/3/21/22	0/3/3/3
2	D5M	p	801	-	-	1/3/21/22	0/3/3/3
2	D5M	H	801	-	-	1/3/21/22	0/3/3/3
2	D5M	j	801	-	-	1/3/21/22	0/3/3/3
2	D5M	D	801	-	-	1/3/21/22	0/3/3/3
2	D5M	r	801	-	-	1/3/21/22	0/3/3/3
2	D5M	d	801	-	-	1/3/21/22	0/3/3/3
2	D5M	v	801	-	-	1/3/21/22	0/3/3/3
2	D5M	1	801	-	-	1/3/21/22	0/3/3/3
2	D5M	8	801	-	-	1/3/21/22	0/3/3/3
2	D5M	B	801	-	-	1/3/21/22	0/3/3/3
2	D5M	F	801	-	-	1/3/21/22	0/3/3/3
2	D5M	G	801	-	-	1/3/21/22	0/3/3/3
2	D5M	m	801	-	-	1/3/21/22	0/3/3/3
2	D5M	3	801	-	-	1/3/21/22	0/3/3/3
2	D5M	5	801	-	-	1/3/21/22	0/3/3/3
2	D5M	b	801	-	-	1/3/21/22	0/3/3/3
2	D5M	u	801	-	-	1/3/21/22	0/3/3/3
2	D5M	R	801	-	-	1/3/21/22	0/3/3/3
2	D5M	f	801	-	-	1/3/21/22	0/3/3/3
2	D5M	w	801	-	-	1/3/21/22	0/3/3/3
2	D5M	o	801	-	-	1/3/21/22	0/3/3/3
2	D5M	V	801	-	-	1/3/21/22	0/3/3/3
2	D5M	4	801	-	-	1/3/21/22	0/3/3/3
2	D5M	U	801	-	-	1/3/21/22	0/3/3/3
2	D5M	L	801	-	-	1/3/21/22	0/3/3/3
2	D5M	k	801	-	-	1/3/21/22	0/3/3/3
2	D5M	a	801	-	-	1/3/21/22	0/3/3/3
2	D5M	P	801	-	-	1/3/21/22	0/3/3/3
2	D5M	y	801	-	-	1/3/21/22	0/3/3/3
2	D5M	6	801	-	-	1/3/21/22	0/3/3/3
2	D5M	q	801	-	-	1/3/21/22	0/3/3/3
2	D5M	Y	801	-	-	1/3/21/22	0/3/3/3
2	D5M	x	801	-	-	1/3/21/22	0/3/3/3
2	D5M	T	801	-	-	1/3/21/22	0/3/3/3
2	D5M	2	801	-	-	1/3/21/22	0/3/3/3
2	D5M	I	801	-	-	1/3/21/22	0/3/3/3
2	D5M	X	801	-	-	1/3/21/22	0/3/3/3
2	D5M	Z	801	-	-	1/3/21/22	0/3/3/3
2	D5M	J	801	-	-	1/3/21/22	0/3/3/3
2	D5M	c	801	-	-	1/3/21/22	0/3/3/3
2	D5M	e	801	-	-	1/3/21/22	0/3/3/3
2	D5M	i	801	-	-	1/3/21/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	t	801	-	-	1/3/21/22	0/3/3/3
2	D5M	n	801	-	-	1/3/21/22	0/3/3/3
2	D5M	K	801	-	-	1/3/21/22	0/3/3/3
2	D5M	Q	801	-	-	1/3/21/22	0/3/3/3
2	D5M	C	801	-	-	1/3/21/22	0/3/3/3
2	D5M	l	801	-	-	1/3/21/22	0/3/3/3
2	D5M	N	801	-	-	1/3/21/22	0/3/3/3
2	D5M	g	801	-	-	1/3/21/22	0/3/3/3
2	D5M	z	801	-	-	1/3/21/22	0/3/3/3
2	D5M	A	801	-	-	1/3/21/22	0/3/3/3
2	D5M	h	801	-	-	1/3/21/22	0/3/3/3
2	D5M	E	801	-	-	1/3/21/22	0/3/3/3
2	D5M	S	801	-	-	1/3/21/22	0/3/3/3
2	D5M	s	801	-	-	1/3/21/22	0/3/3/3
2	D5M	7	801	-	-	1/3/21/22	0/3/3/3
2	D5M	W	801	-	-	1/3/21/22	0/3/3/3
2	D5M	M	801	-	-	1/3/21/22	0/3/3/3

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	v	801	D5M	C5-C6-N6	2.16	123.60	120.31
2	y	801	D5M	C5-C6-N6	2.16	123.60	120.31
2	E	801	D5M	C5-C6-N6	2.16	123.59	120.31
2	O	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	A	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	D	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	W	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	K	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	T	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	Z	801	D5M	C5-C6-N6	2.15	123.58	120.31
2	3	801	D5M	C5-C6-N6	2.15	123.58	120.31
2	g	801	D5M	C5-C6-N6	2.15	123.58	120.31
2	p	801	D5M	C5-C6-N6	2.15	123.58	120.31
2	r	801	D5M	C5-C6-N6	2.15	123.58	120.31
2	2	801	D5M	C5-C6-N6	2.15	123.58	120.31
2	s	801	D5M	C5-C6-N6	2.14	123.58	120.31
2	z	801	D5M	C5-C6-N6	2.14	123.58	120.31
2	R	801	D5M	C5-C6-N6	2.14	123.57	120.31
2	V	801	D5M	C5-C6-N6	2.14	123.57	120.31
2	J	801	D5M	C5-C6-N6	2.14	123.57	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	o	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	L	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	U	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	S	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	u	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	x	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	M	801	D5M	C5-C6-N6	2.13	123.55	120.31
2	P	801	D5M	C5-C6-N6	2.13	123.55	120.31
2	i	801	D5M	C5-C6-N6	2.13	123.55	120.31
2	7	801	D5M	C5-C6-N6	2.13	123.55	120.31
2	e	801	D5M	C5-C6-N6	2.12	123.55	120.31
2	t	801	D5M	C5-C6-N6	2.12	123.55	120.31
2	w	801	D5M	C5-C6-N6	2.12	123.55	120.31
2	N	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	Y	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	c	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	f	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	k	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	6	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	l	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	q	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	1	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	8	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	X	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	4	801	D5M	C5-C6-N6	2.12	123.53	120.31
2	C	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	Q	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	a	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	d	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	m	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	h	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	H	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	G	801	D5M	C5-C6-N6	2.11	123.52	120.31
2	I	801	D5M	C5-C6-N6	2.11	123.52	120.31
2	b	801	D5M	C5-C6-N6	2.11	123.52	120.31
2	n	801	D5M	C5-C6-N6	2.10	123.52	120.31
2	F	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	j	801	D5M	C5-C6-N6	2.09	123.50	120.31
2	5	801	D5M	C5-C6-N6	2.09	123.50	120.31

There are no chirality outliers.

All (60) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	D5M	C4'-C5'-O5'-P
2	B	801	D5M	C4'-C5'-O5'-P
2	C	801	D5M	C4'-C5'-O5'-P
2	D	801	D5M	C4'-C5'-O5'-P
2	E	801	D5M	C4'-C5'-O5'-P
2	F	801	D5M	C4'-C5'-O5'-P
2	G	801	D5M	C4'-C5'-O5'-P
2	H	801	D5M	C4'-C5'-O5'-P
2	I	801	D5M	C4'-C5'-O5'-P
2	J	801	D5M	C4'-C5'-O5'-P
2	K	801	D5M	C4'-C5'-O5'-P
2	L	801	D5M	C4'-C5'-O5'-P
2	M	801	D5M	C4'-C5'-O5'-P
2	N	801	D5M	C4'-C5'-O5'-P
2	O	801	D5M	C4'-C5'-O5'-P
2	P	801	D5M	C4'-C5'-O5'-P
2	Q	801	D5M	C4'-C5'-O5'-P
2	R	801	D5M	C4'-C5'-O5'-P
2	S	801	D5M	C4'-C5'-O5'-P
2	T	801	D5M	C4'-C5'-O5'-P
2	U	801	D5M	C4'-C5'-O5'-P
2	V	801	D5M	C4'-C5'-O5'-P
2	W	801	D5M	C4'-C5'-O5'-P
2	X	801	D5M	C4'-C5'-O5'-P
2	Y	801	D5M	C4'-C5'-O5'-P
2	Z	801	D5M	C4'-C5'-O5'-P
2	a	801	D5M	C4'-C5'-O5'-P
2	b	801	D5M	C4'-C5'-O5'-P
2	c	801	D5M	C4'-C5'-O5'-P
2	d	801	D5M	C4'-C5'-O5'-P
2	e	801	D5M	C4'-C5'-O5'-P
2	f	801	D5M	C4'-C5'-O5'-P
2	g	801	D5M	C4'-C5'-O5'-P
2	h	801	D5M	C4'-C5'-O5'-P
2	i	801	D5M	C4'-C5'-O5'-P
2	j	801	D5M	C4'-C5'-O5'-P
2	k	801	D5M	C4'-C5'-O5'-P
2	l	801	D5M	C4'-C5'-O5'-P
2	m	801	D5M	C4'-C5'-O5'-P
2	n	801	D5M	C4'-C5'-O5'-P
2	o	801	D5M	C4'-C5'-O5'-P
2	p	801	D5M	C4'-C5'-O5'-P

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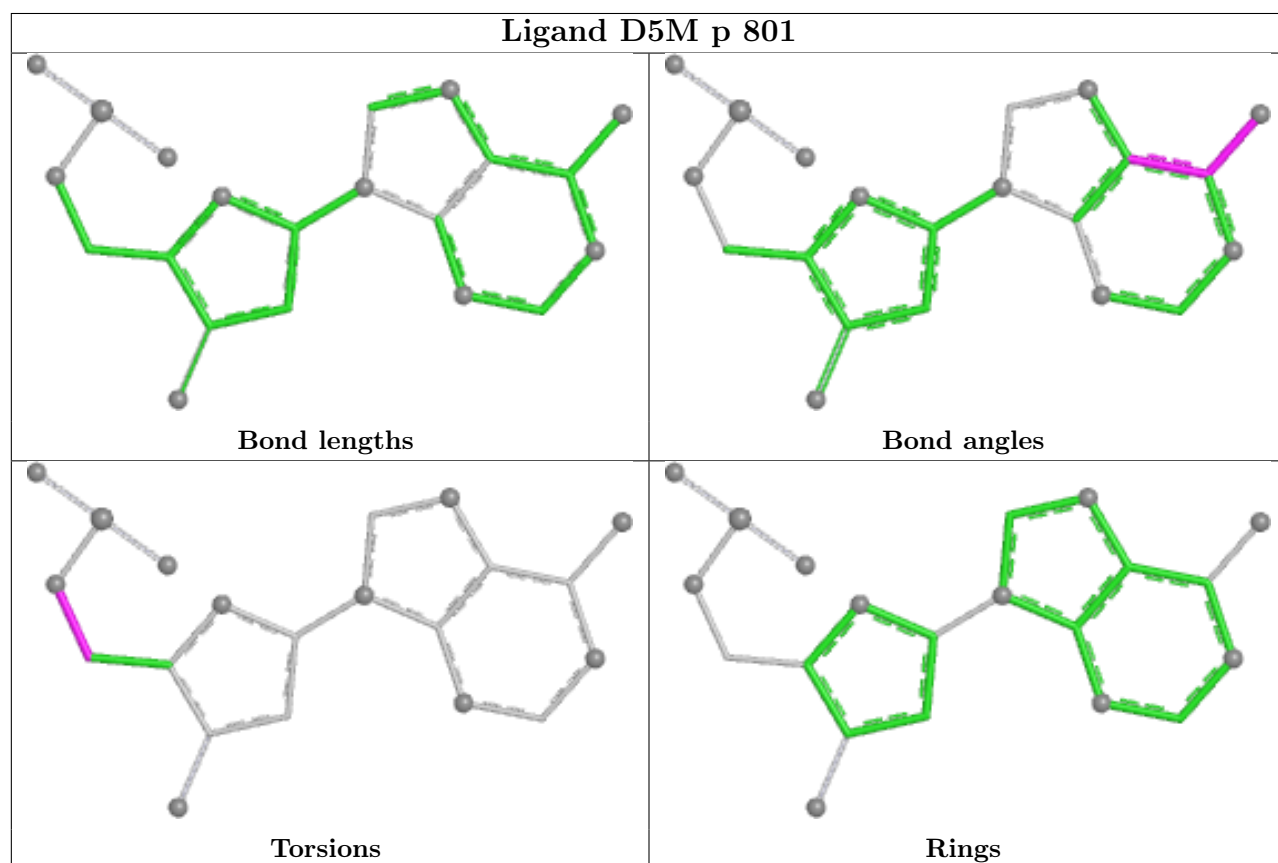
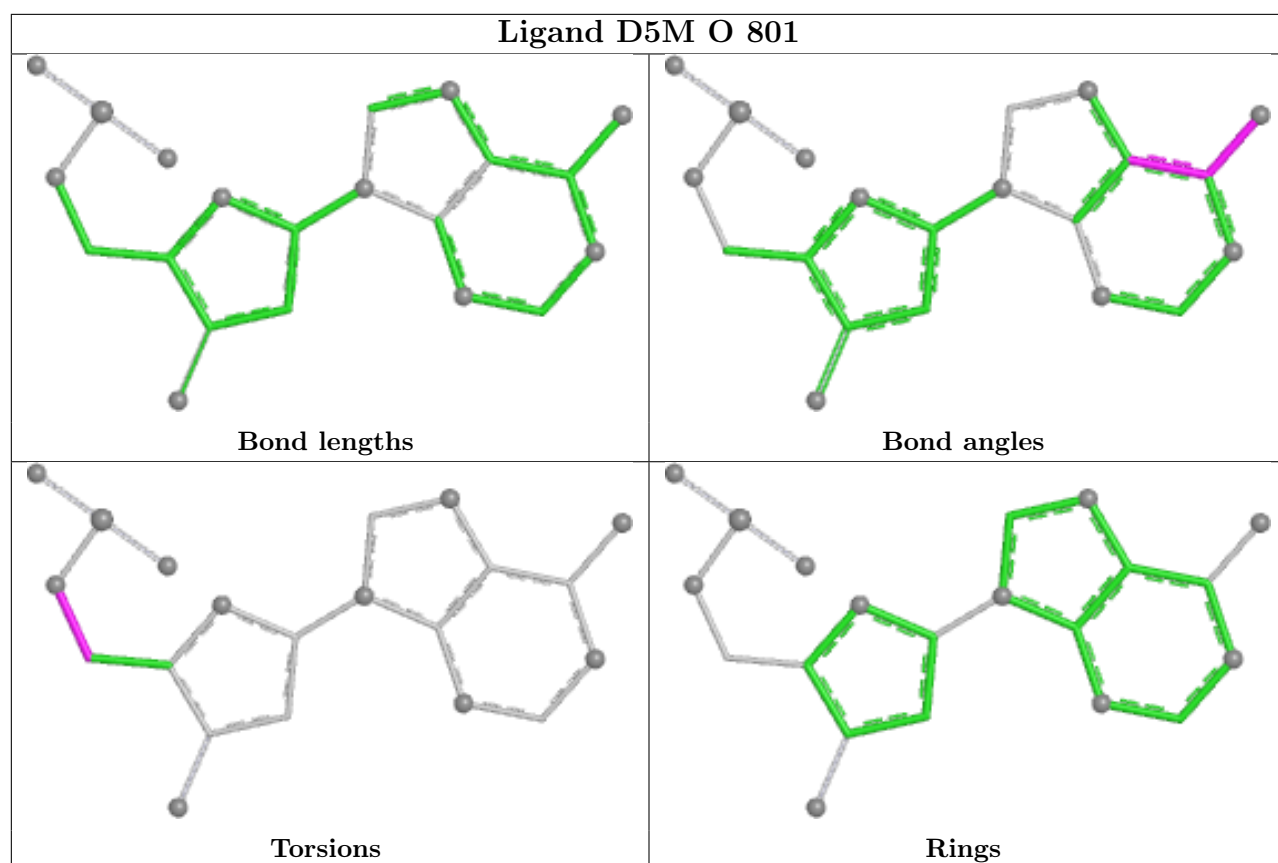
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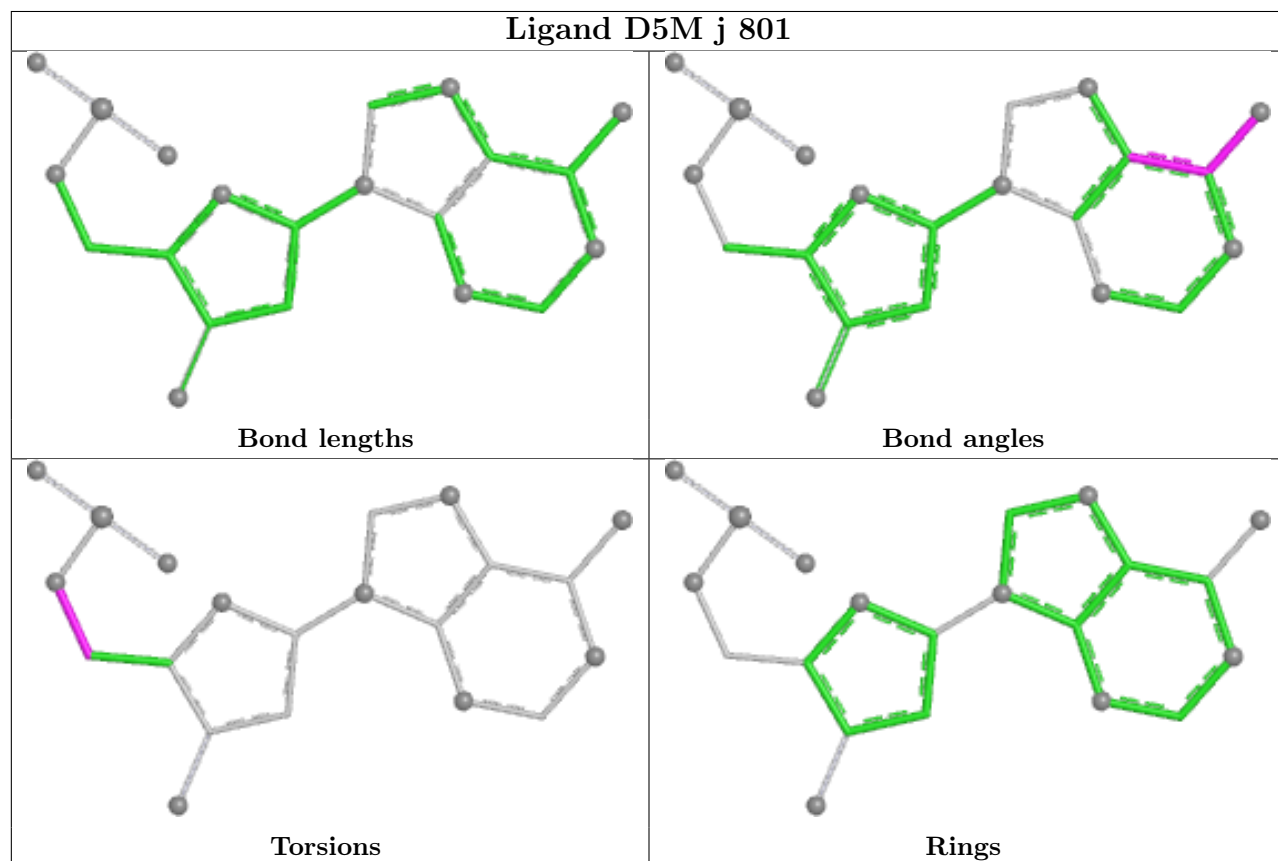
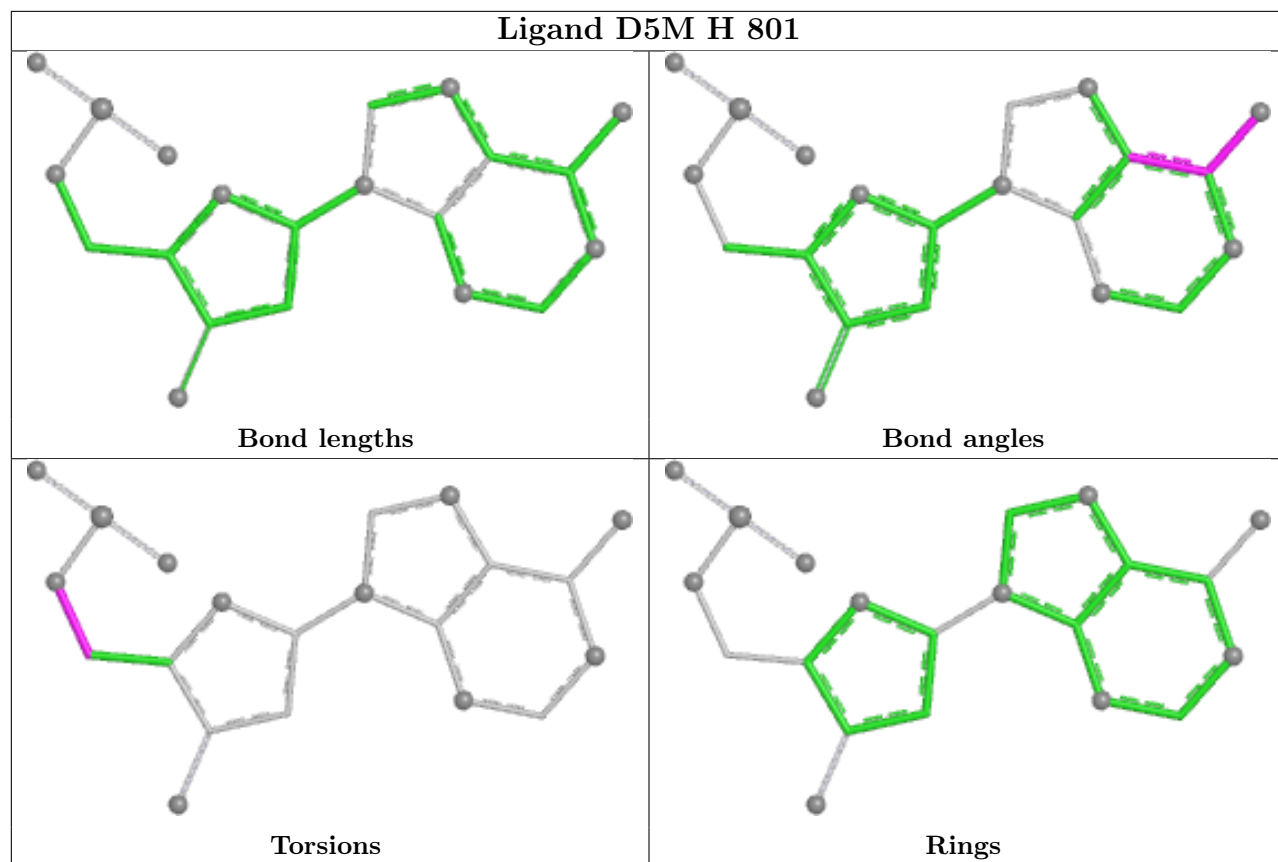
Mol	Chain	Res	Type	Atoms
2	q	801	D5M	C4'-C5'-O5'-P
2	r	801	D5M	C4'-C5'-O5'-P
2	s	801	D5M	C4'-C5'-O5'-P
2	t	801	D5M	C4'-C5'-O5'-P
2	u	801	D5M	C4'-C5'-O5'-P
2	v	801	D5M	C4'-C5'-O5'-P
2	w	801	D5M	C4'-C5'-O5'-P
2	x	801	D5M	C4'-C5'-O5'-P
2	y	801	D5M	C4'-C5'-O5'-P
2	z	801	D5M	C4'-C5'-O5'-P
2	1	801	D5M	C4'-C5'-O5'-P
2	2	801	D5M	C4'-C5'-O5'-P
2	3	801	D5M	C4'-C5'-O5'-P
2	4	801	D5M	C4'-C5'-O5'-P
2	5	801	D5M	C4'-C5'-O5'-P
2	6	801	D5M	C4'-C5'-O5'-P
2	7	801	D5M	C4'-C5'-O5'-P
2	8	801	D5M	C4'-C5'-O5'-P

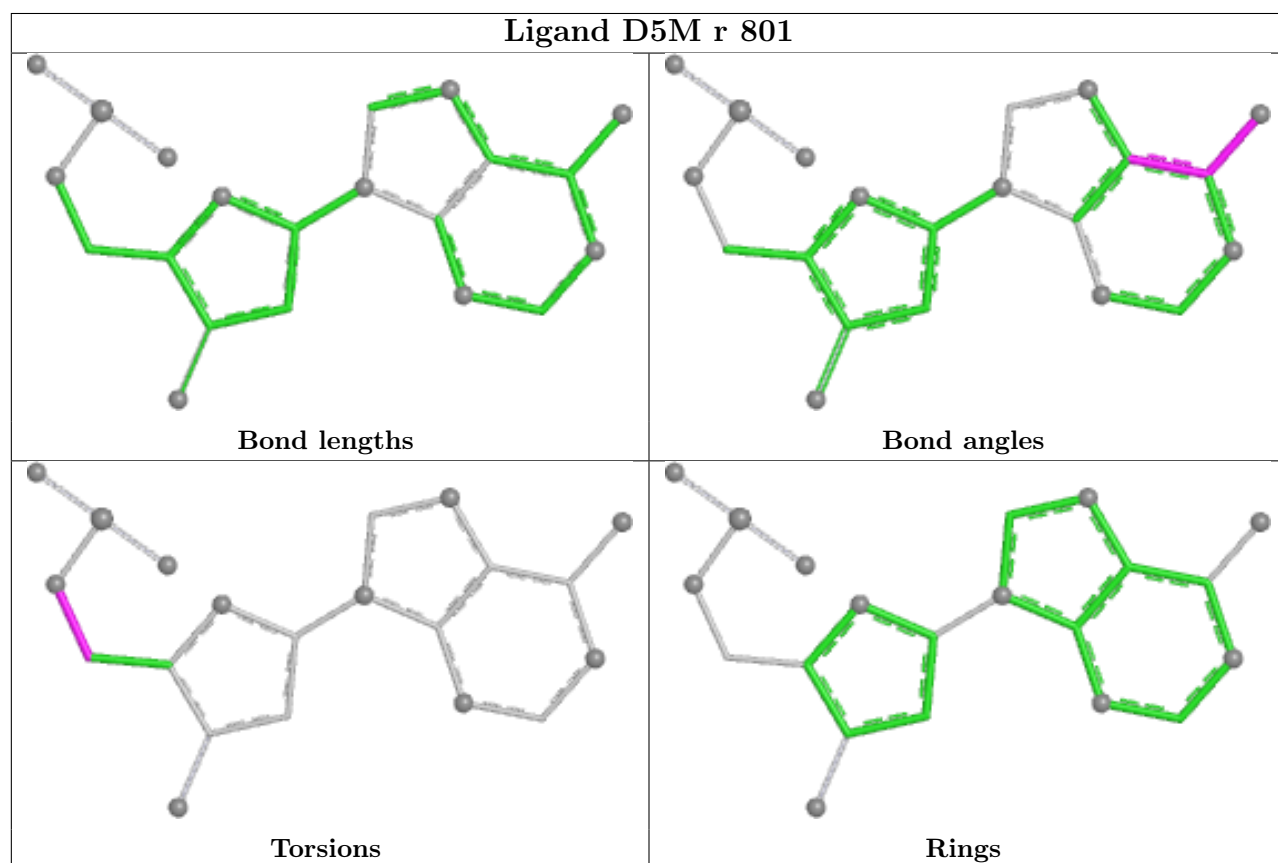
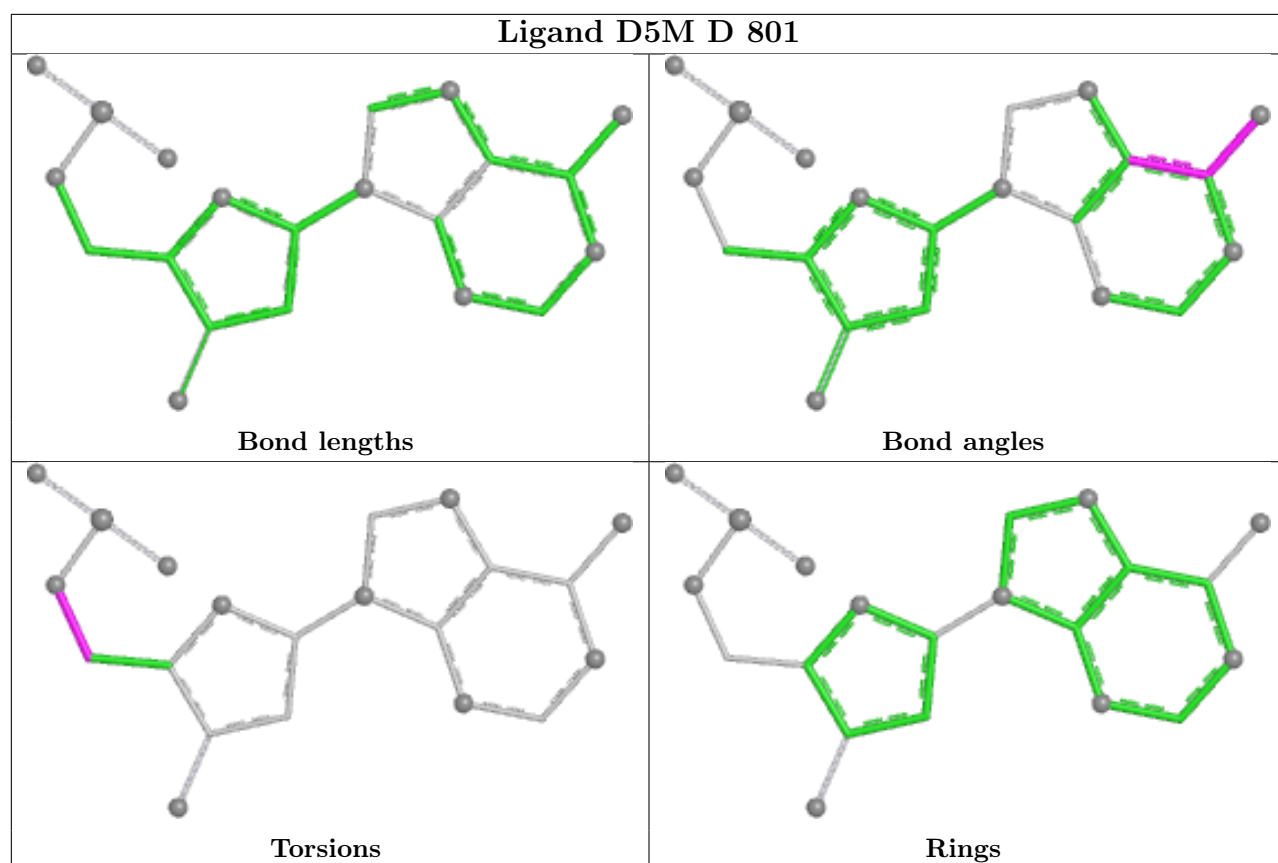
There are no ring outliers.

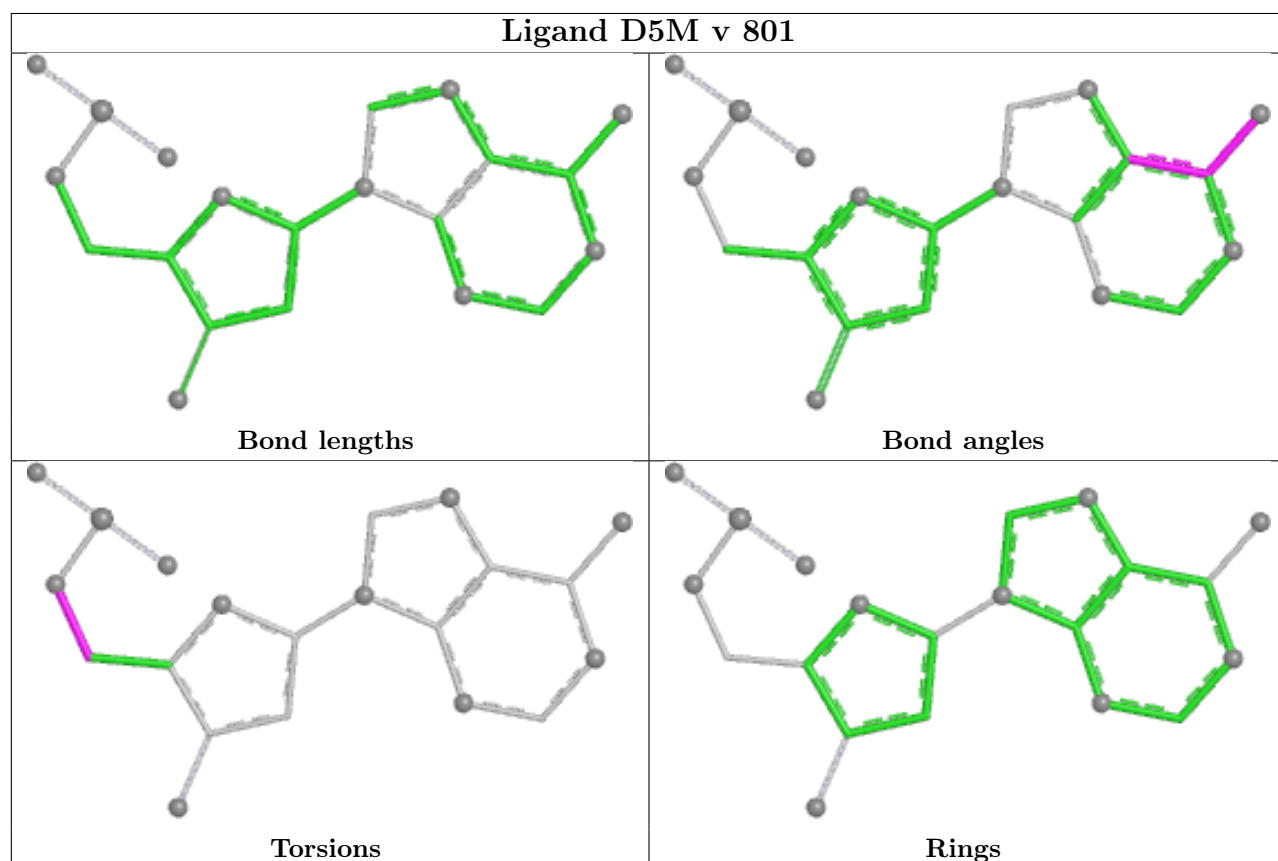
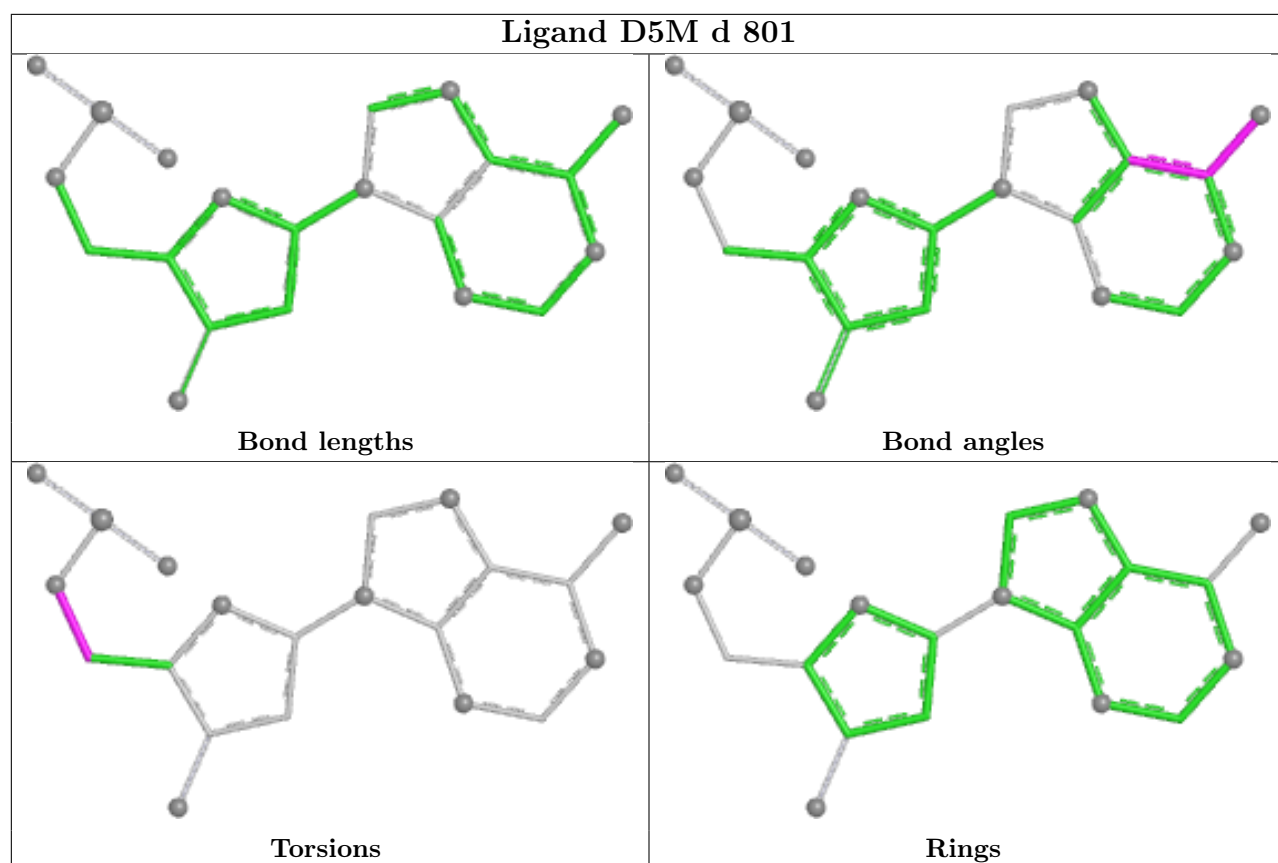
No monomer is involved in short contacts.

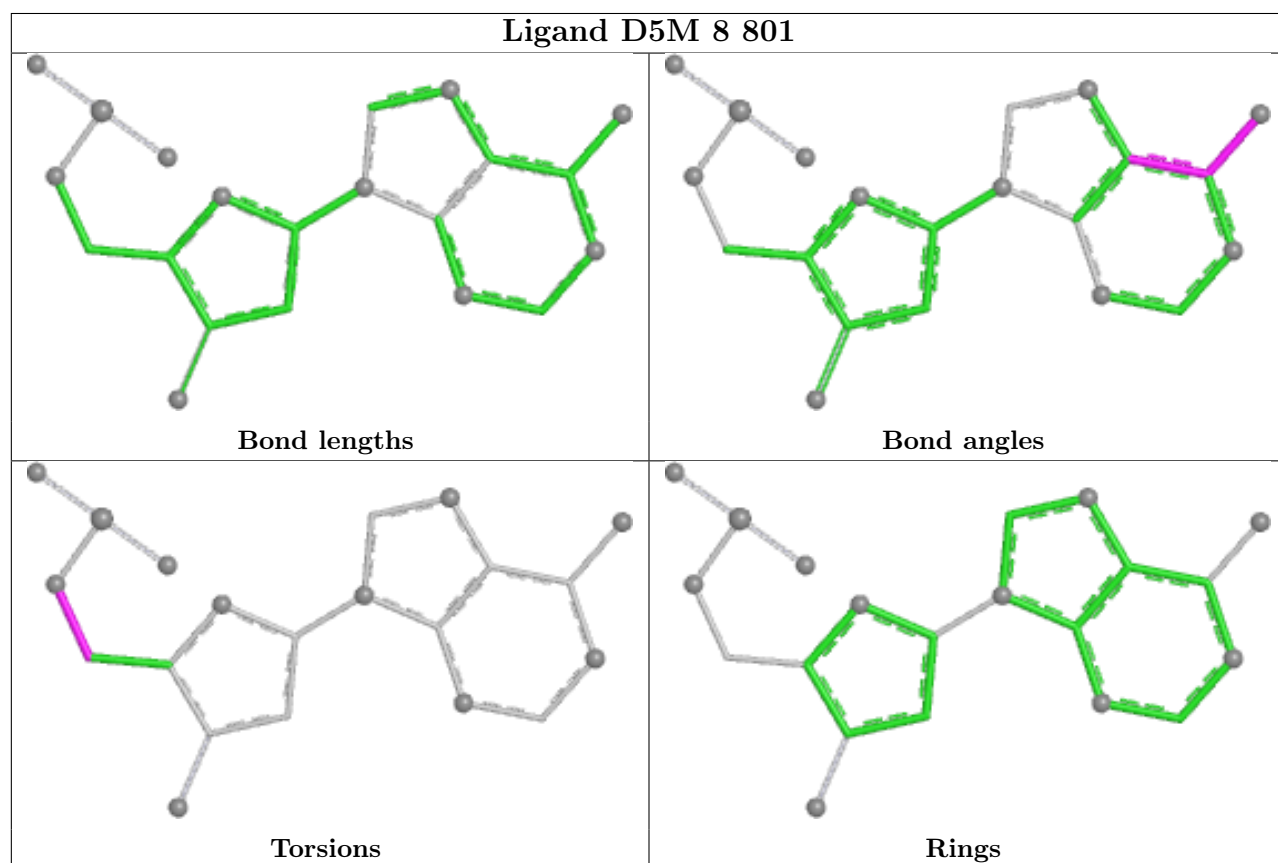
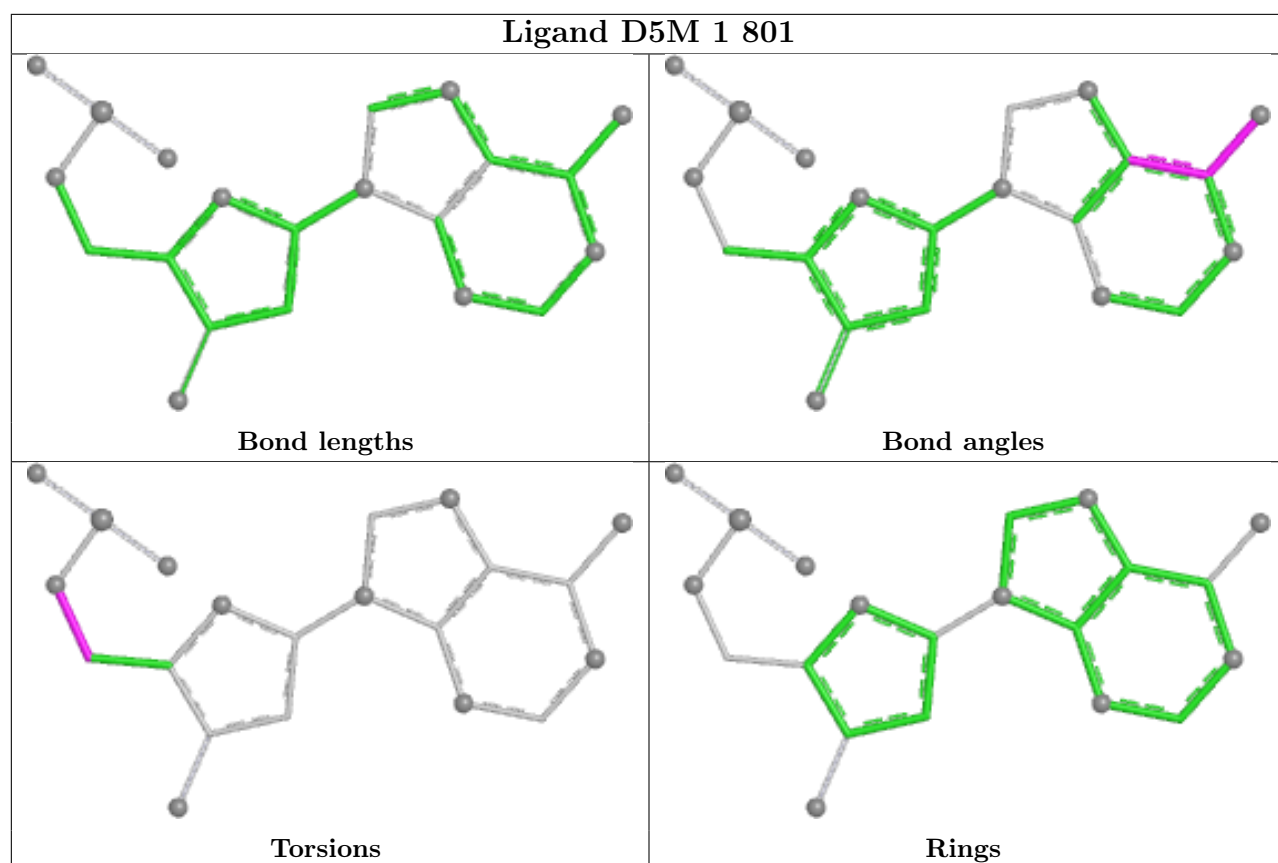
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

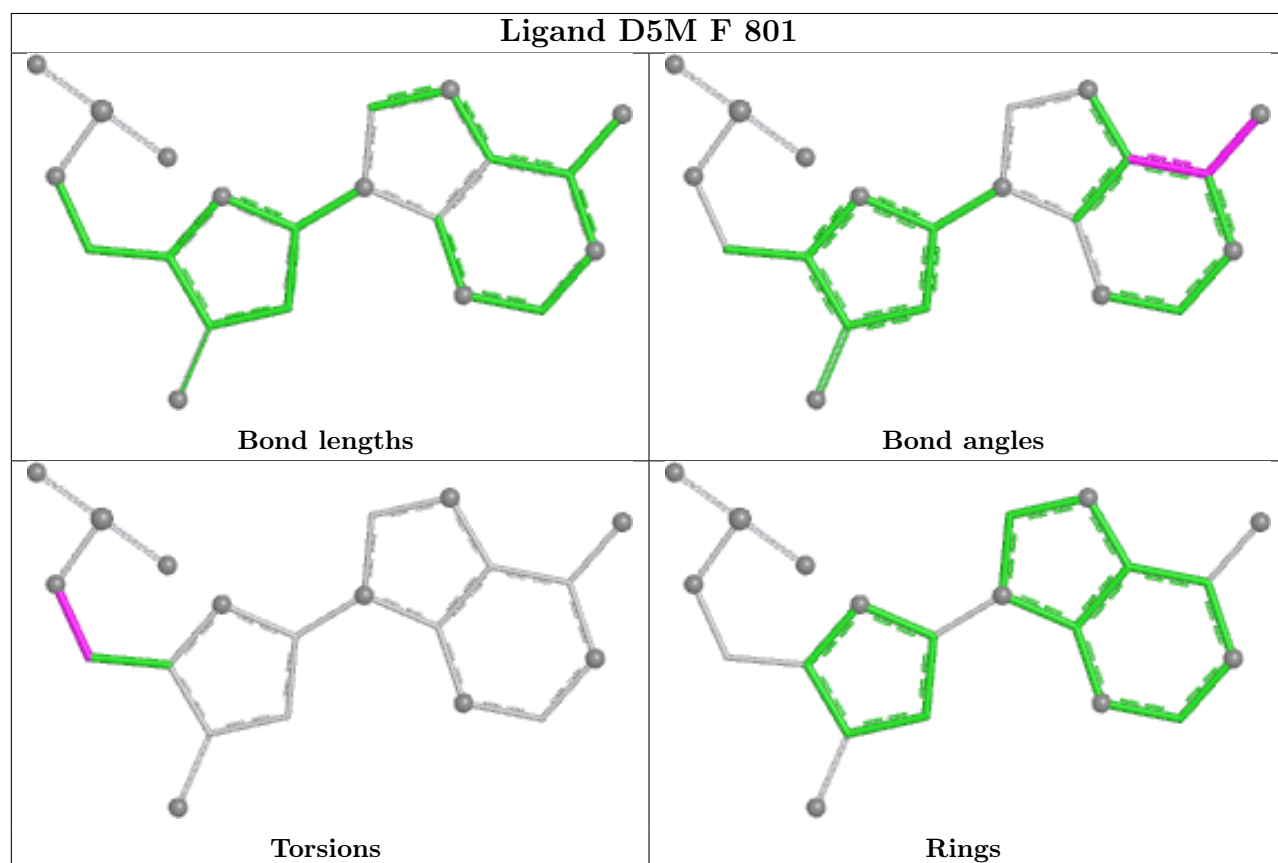
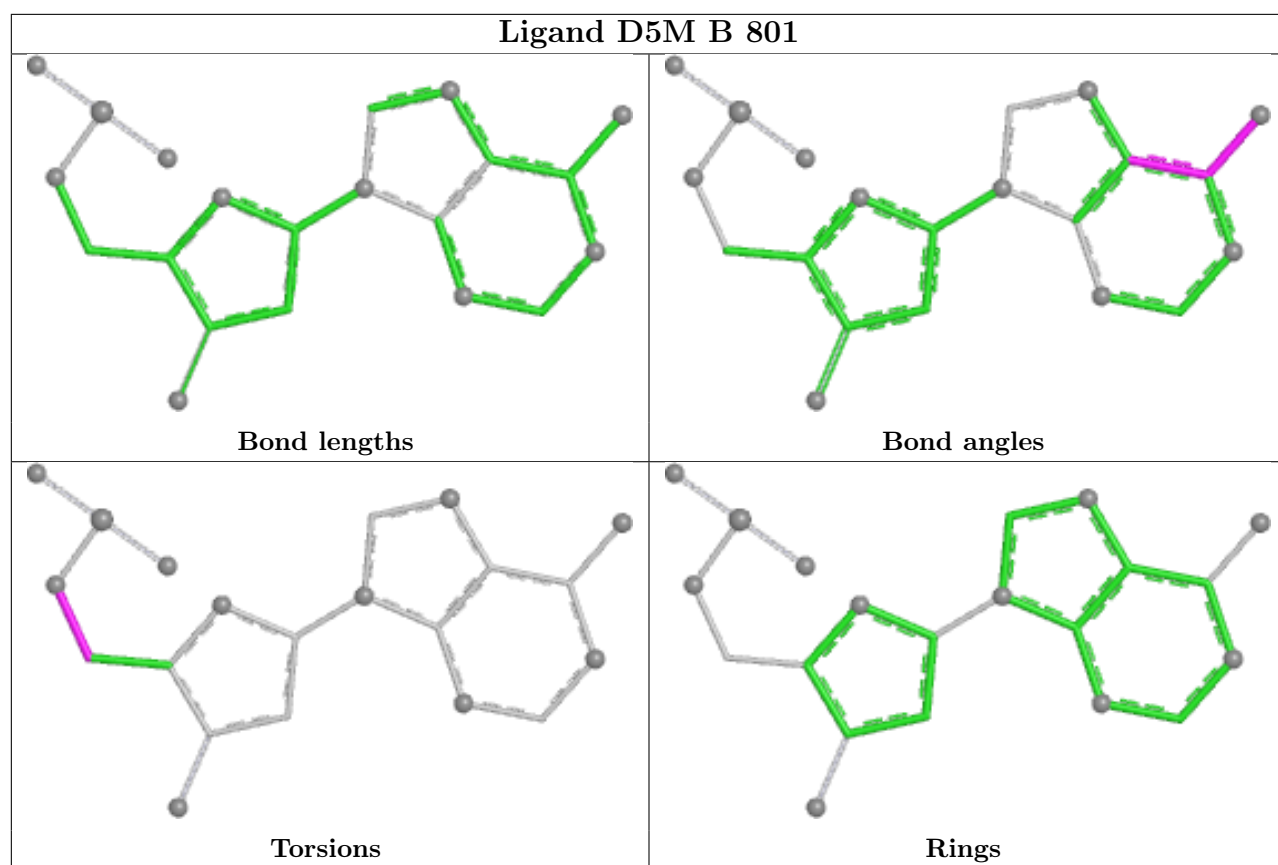


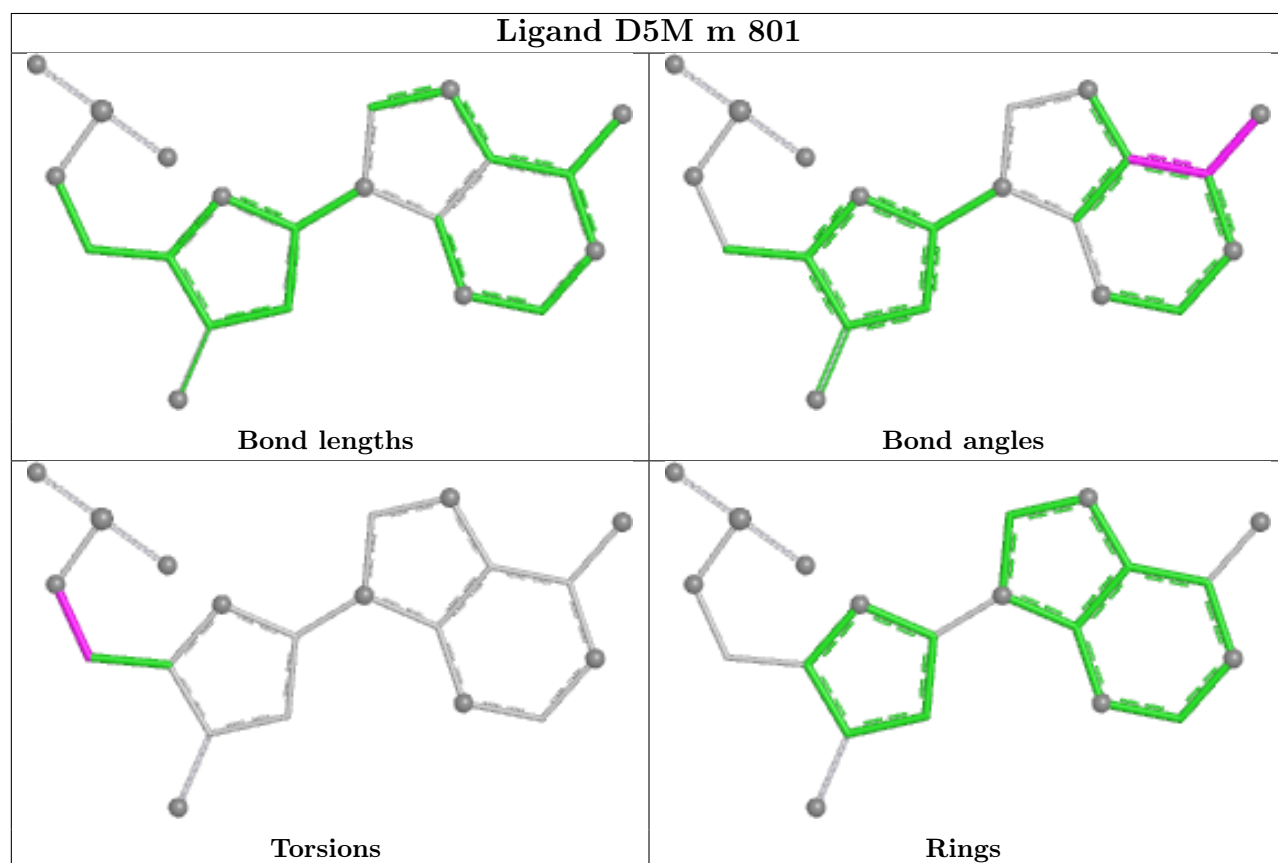
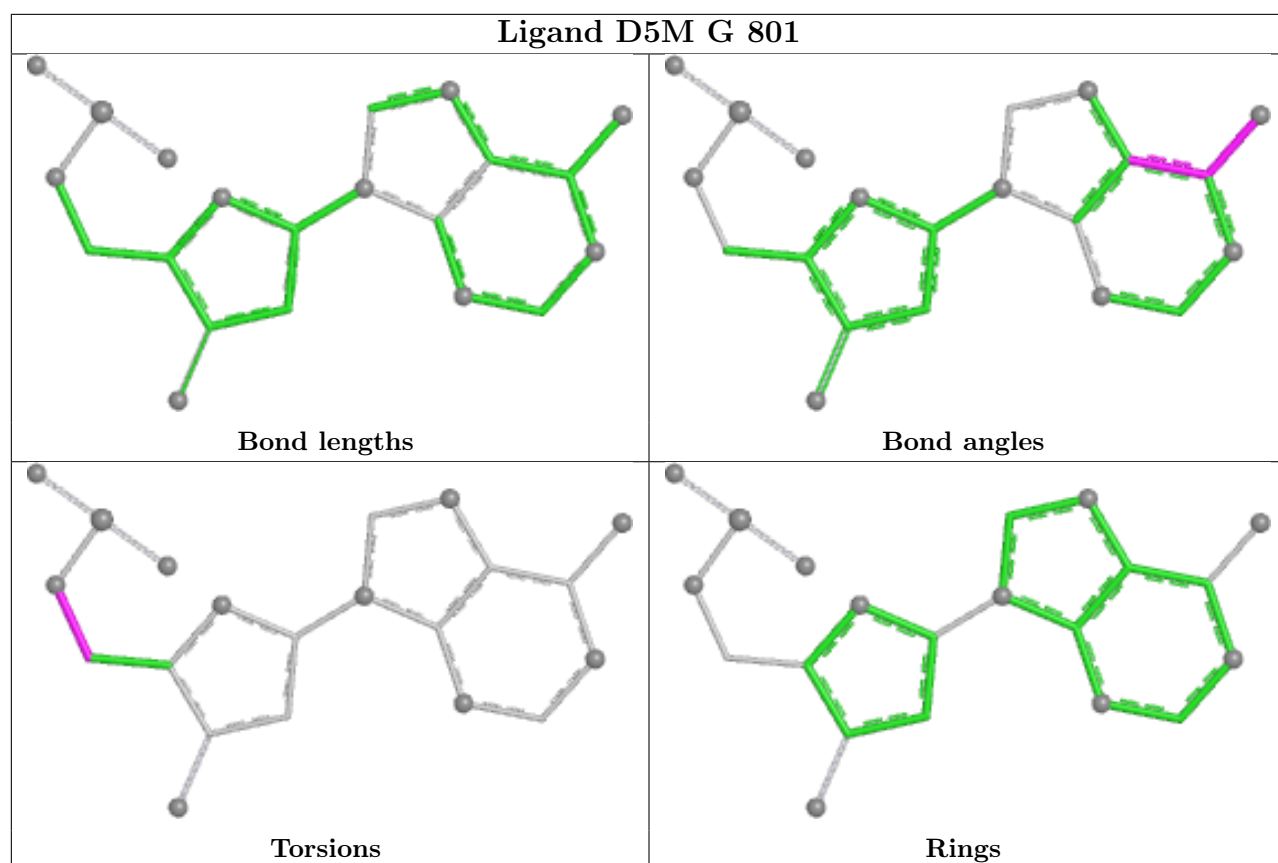


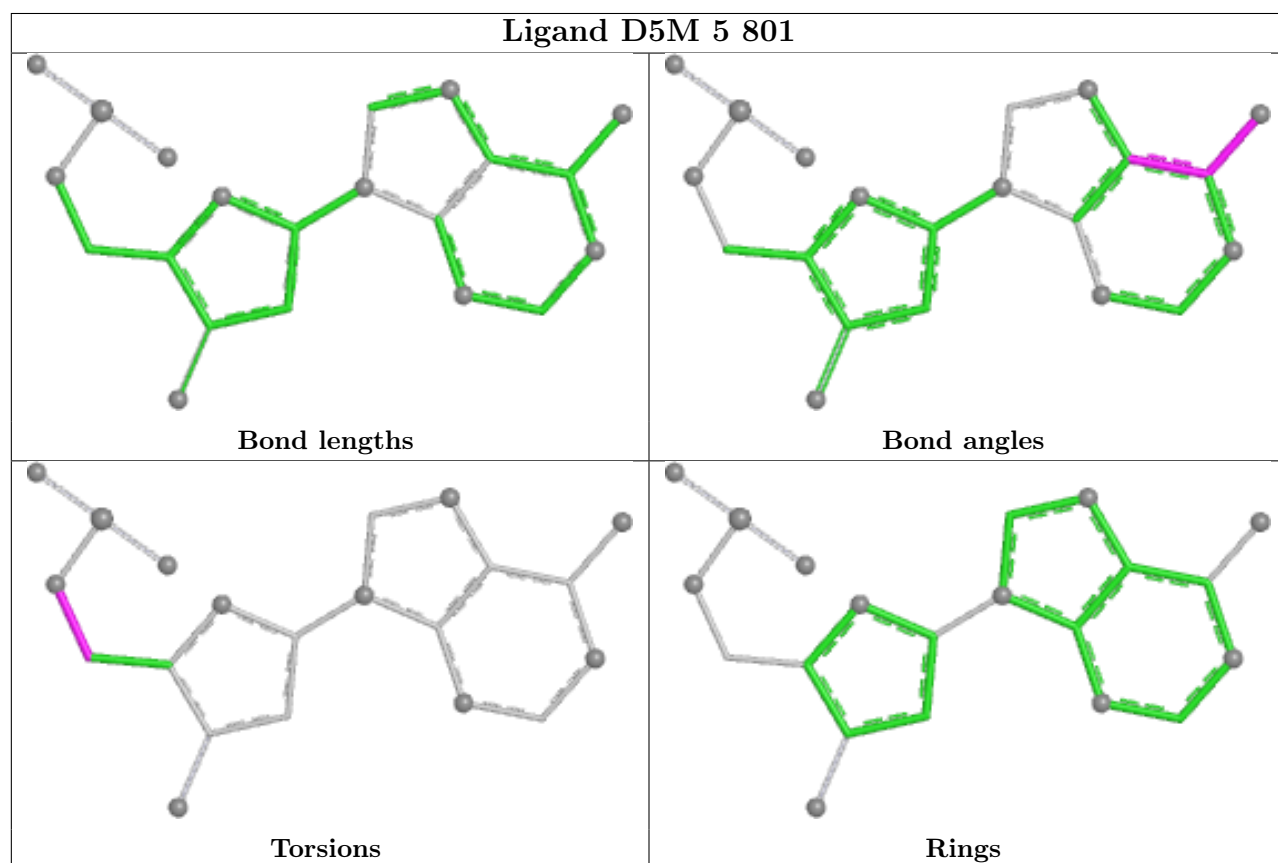
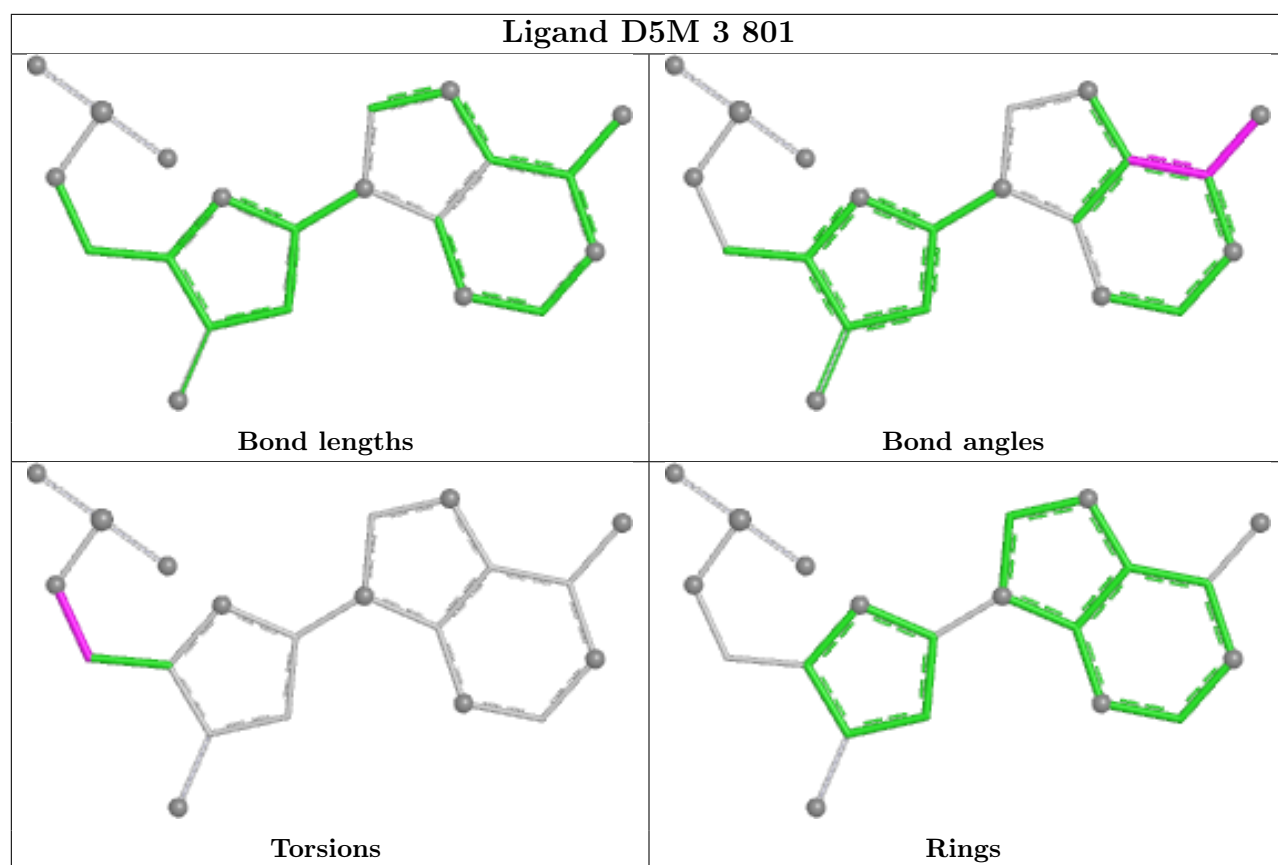


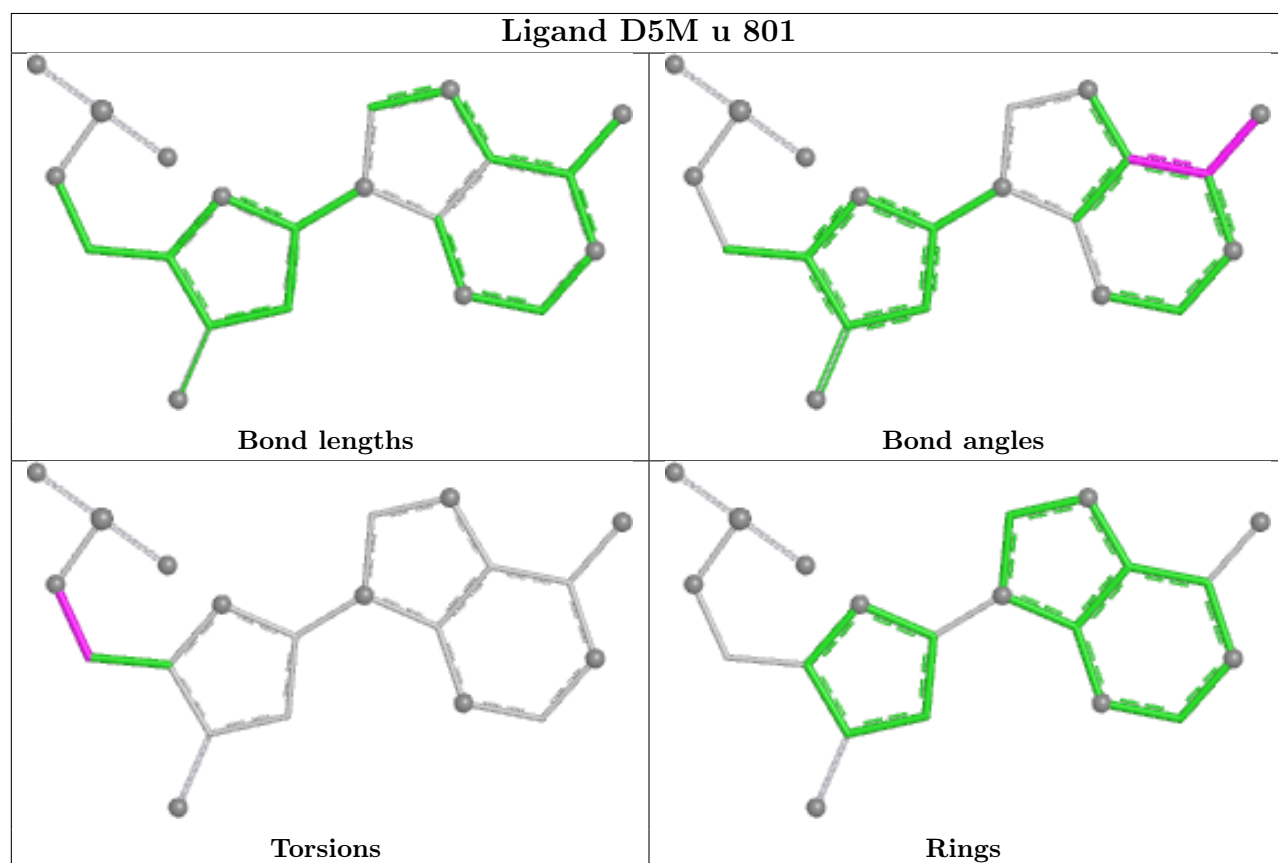
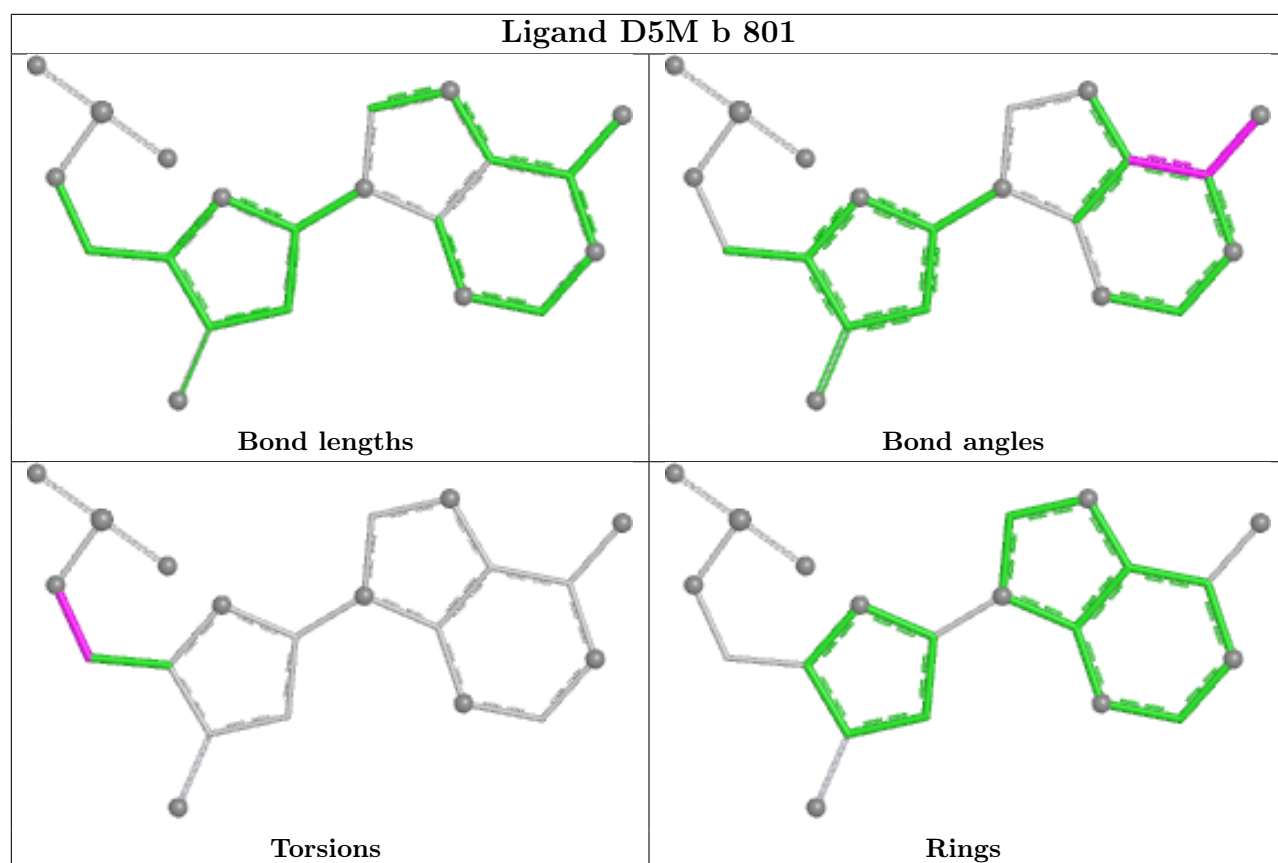


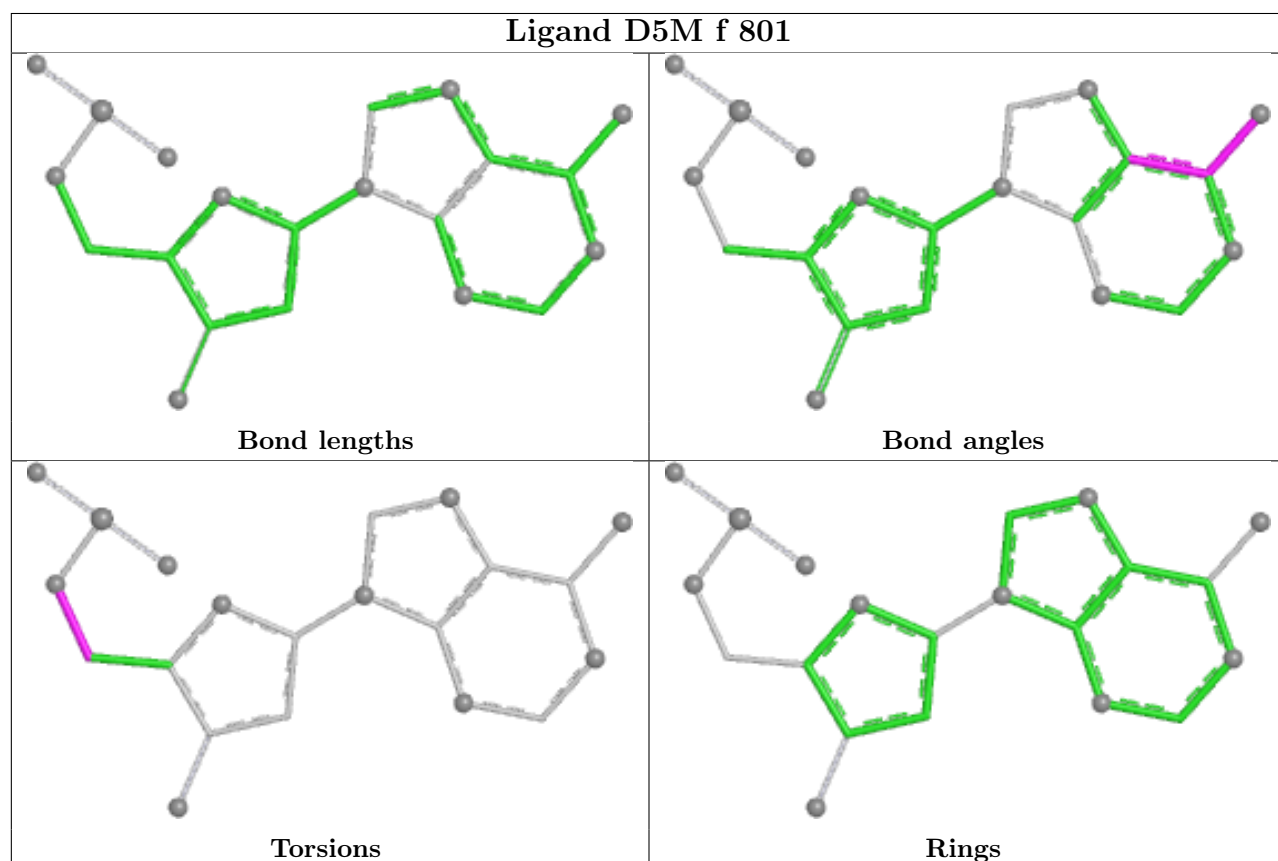
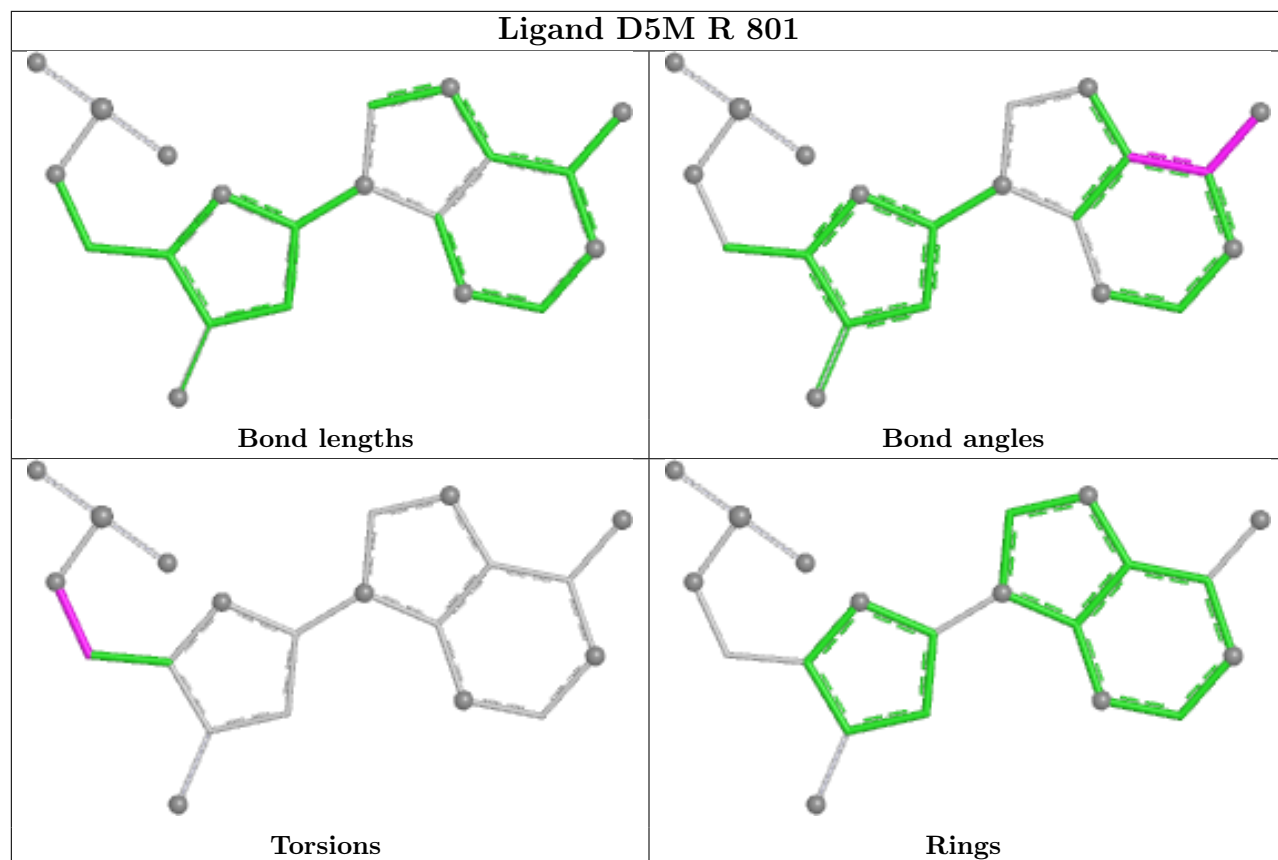


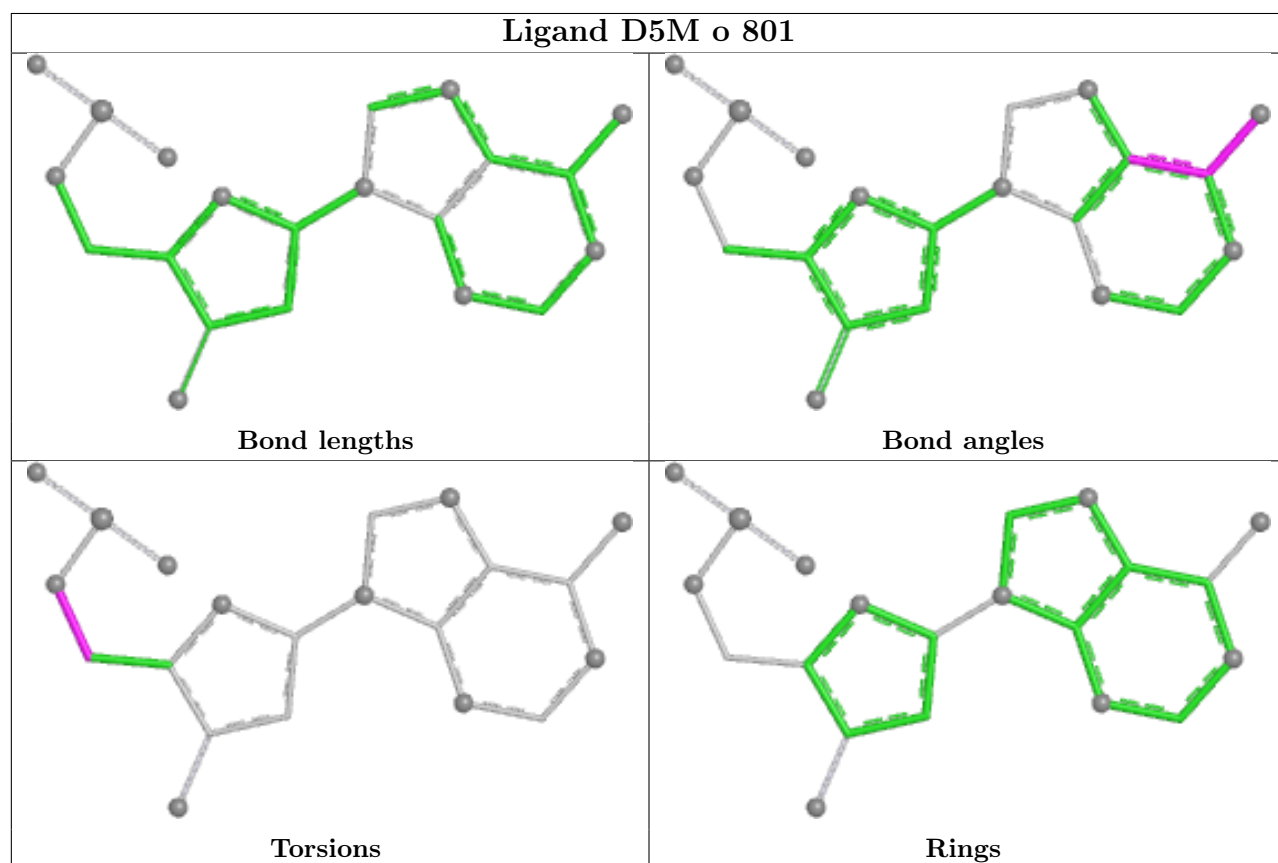
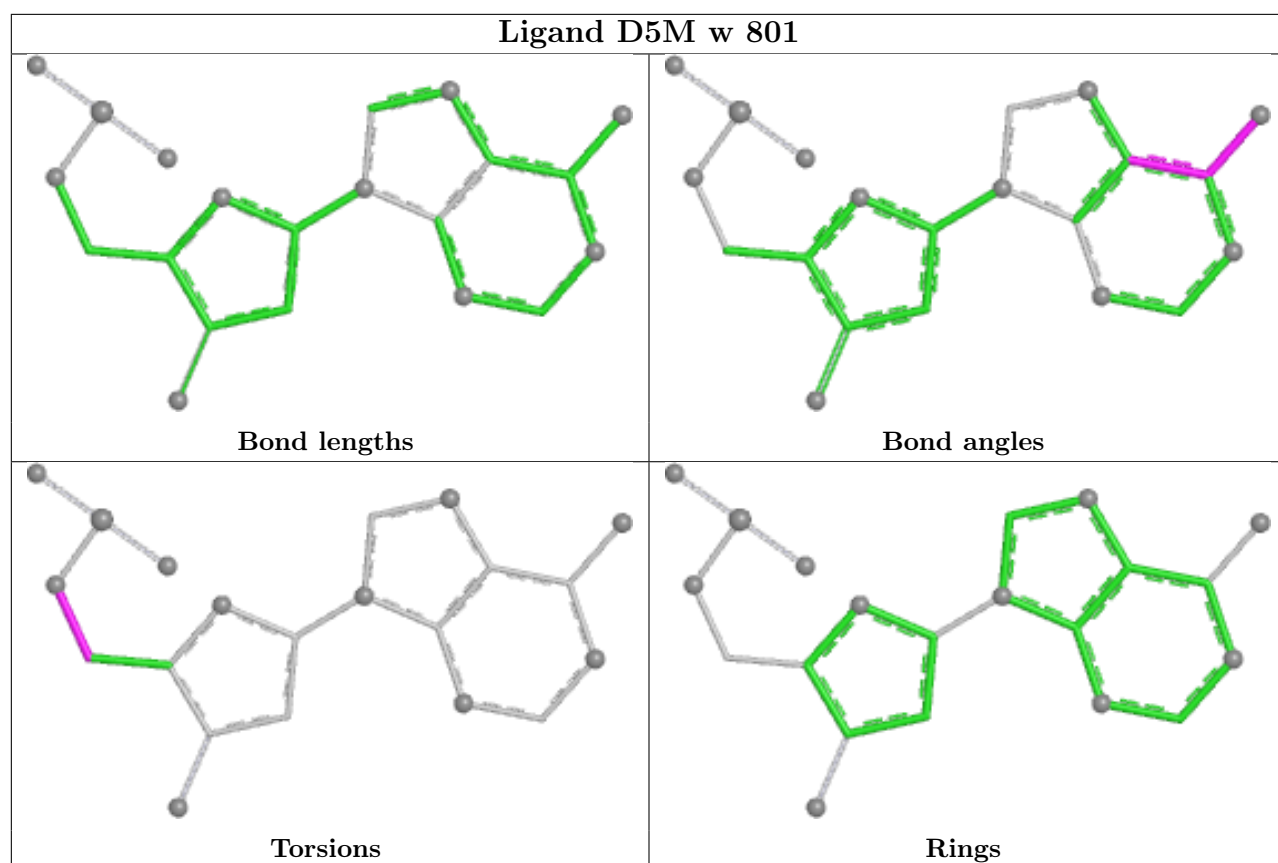


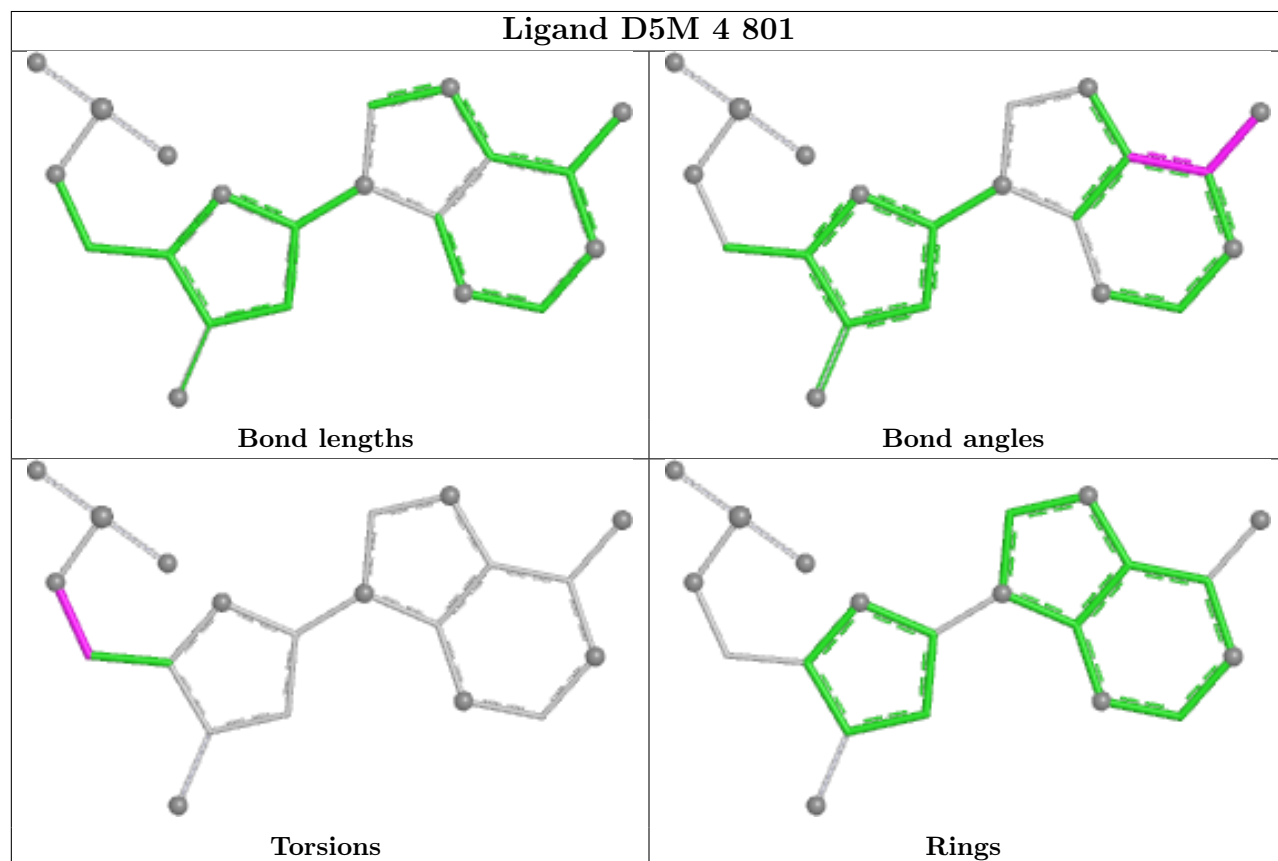
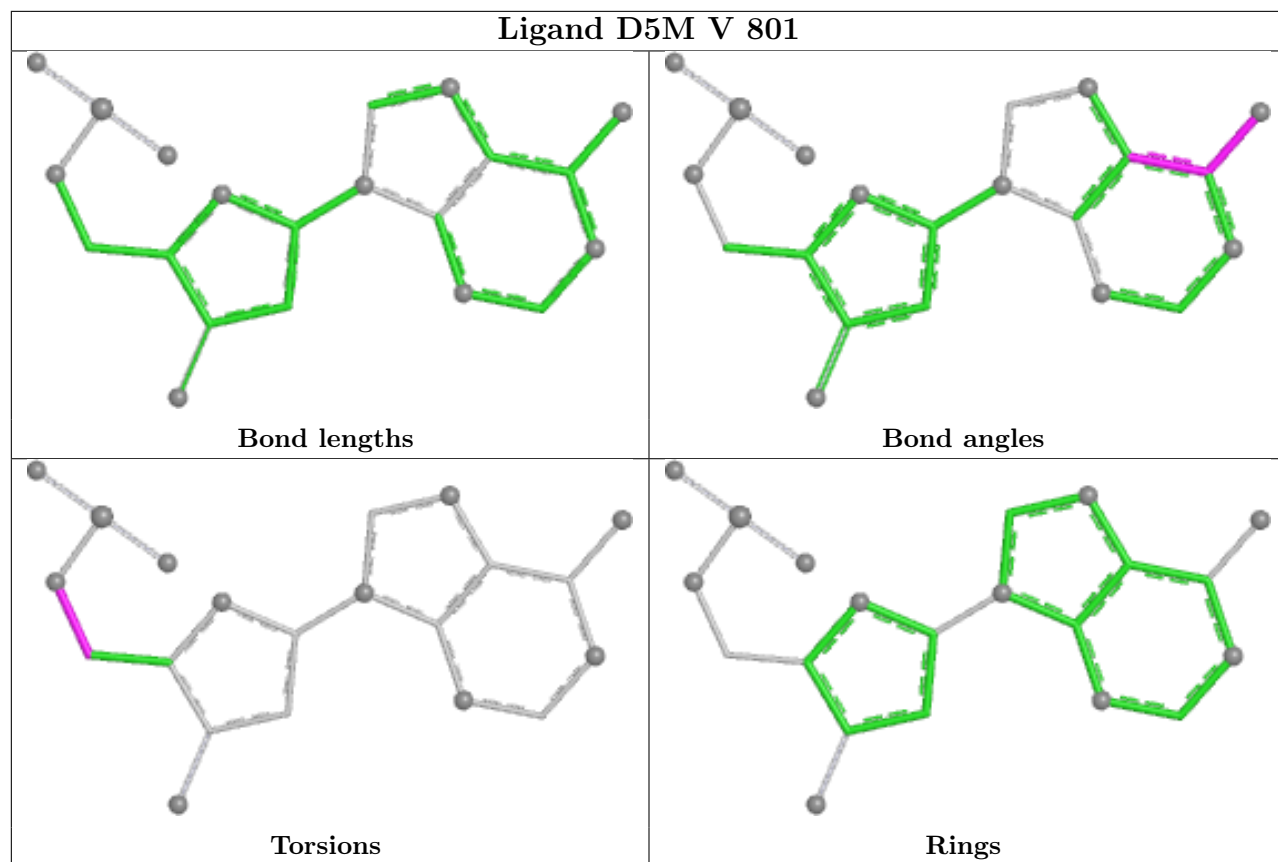


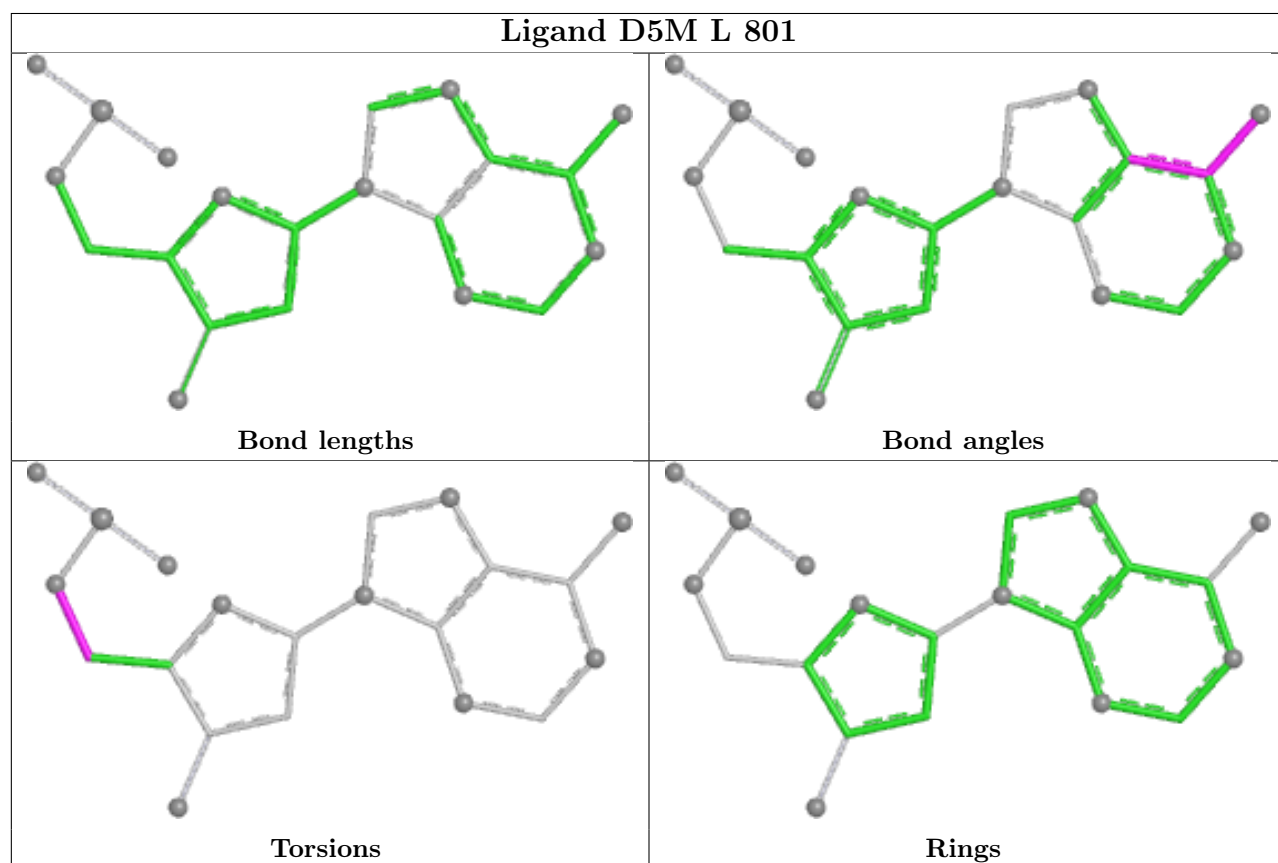
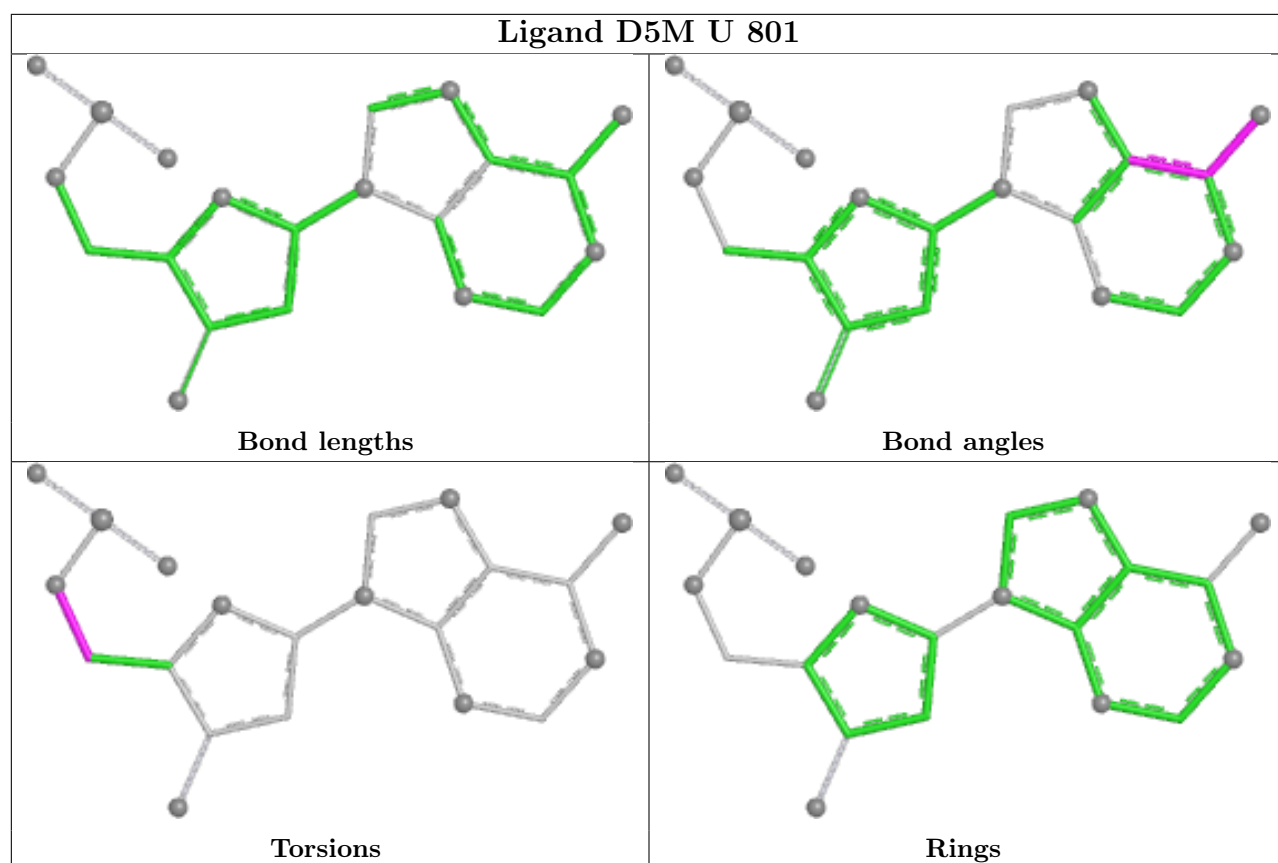


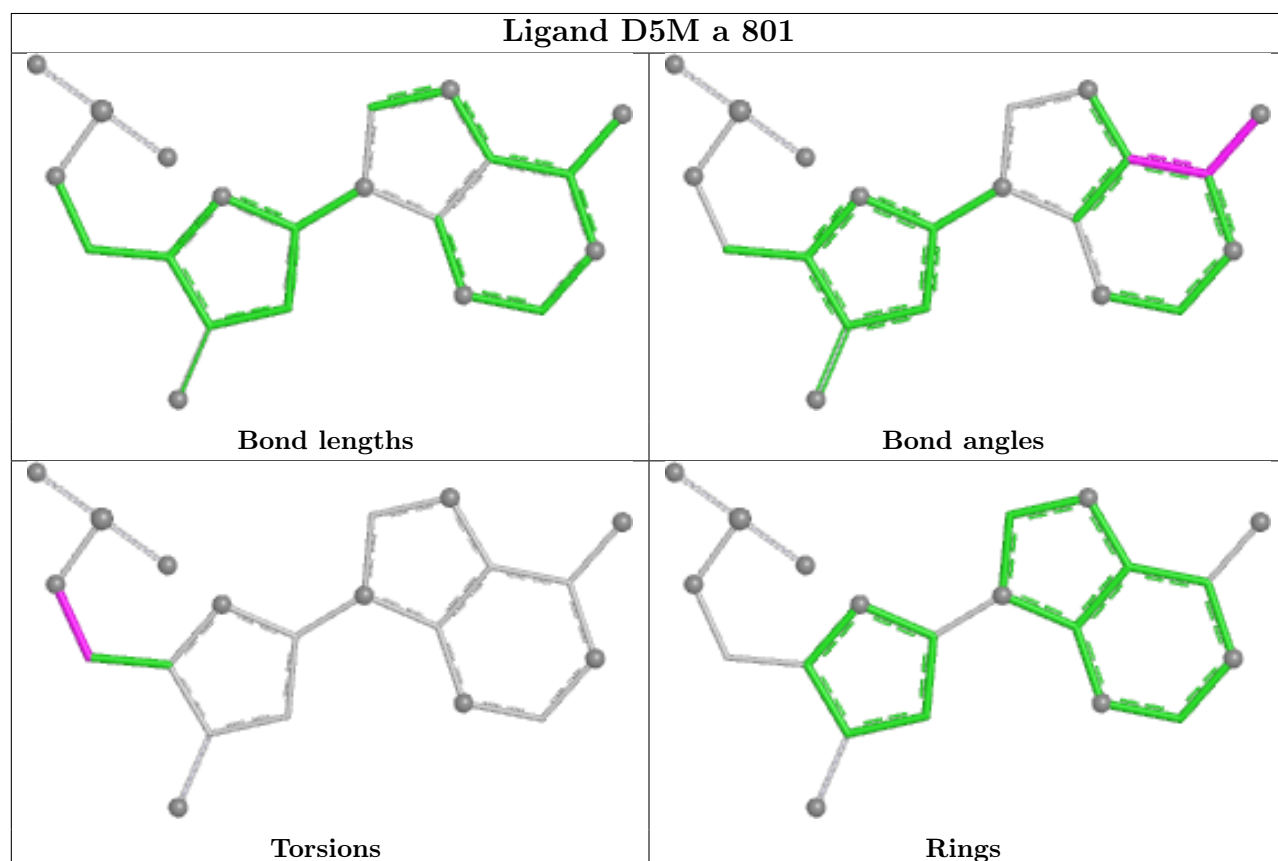
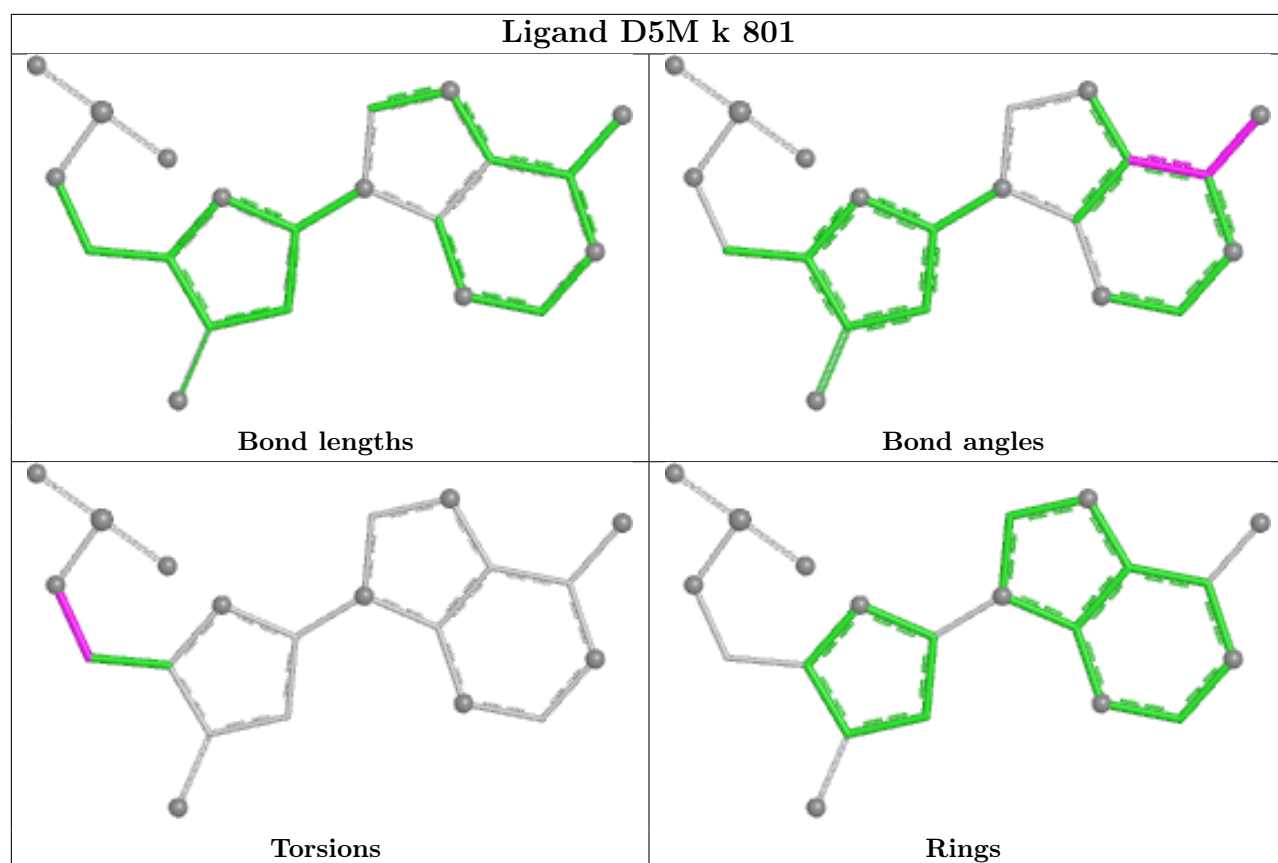


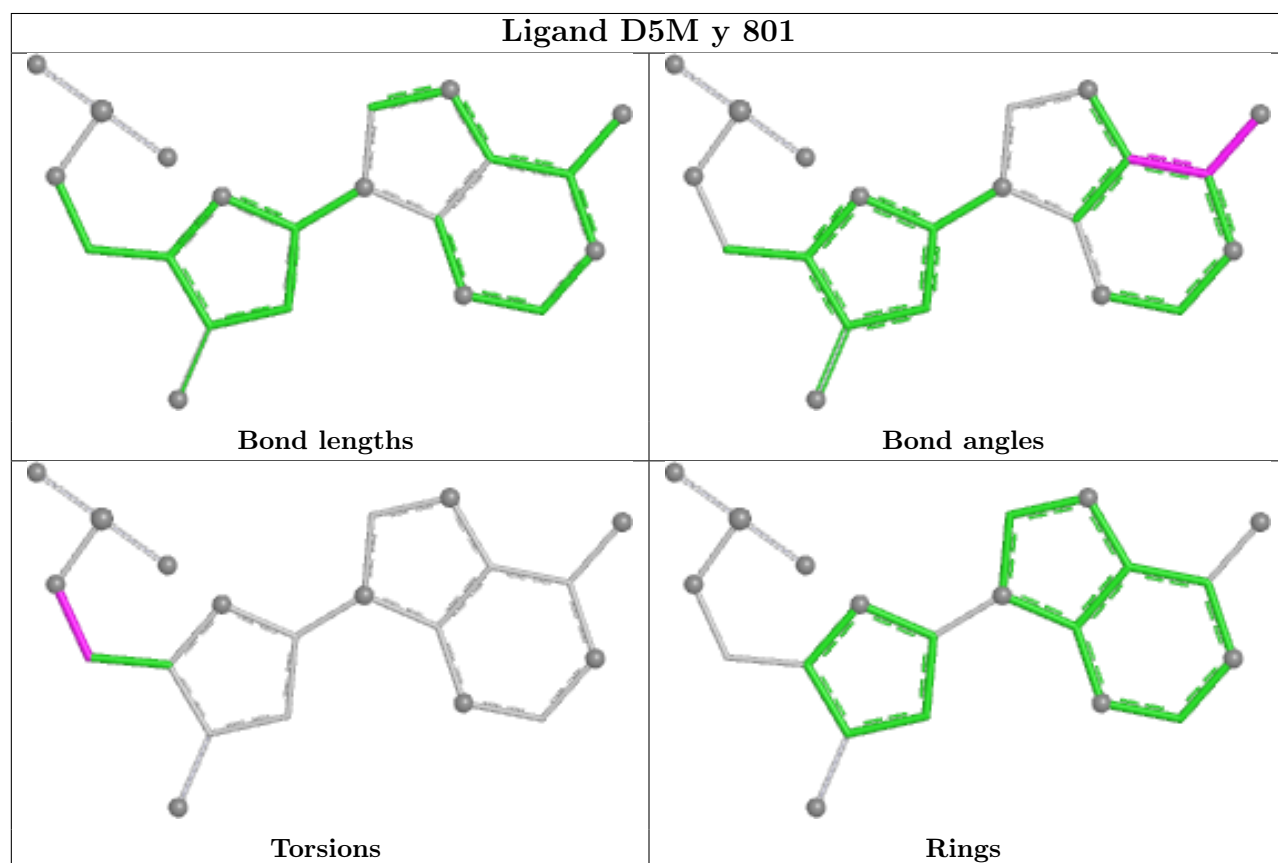
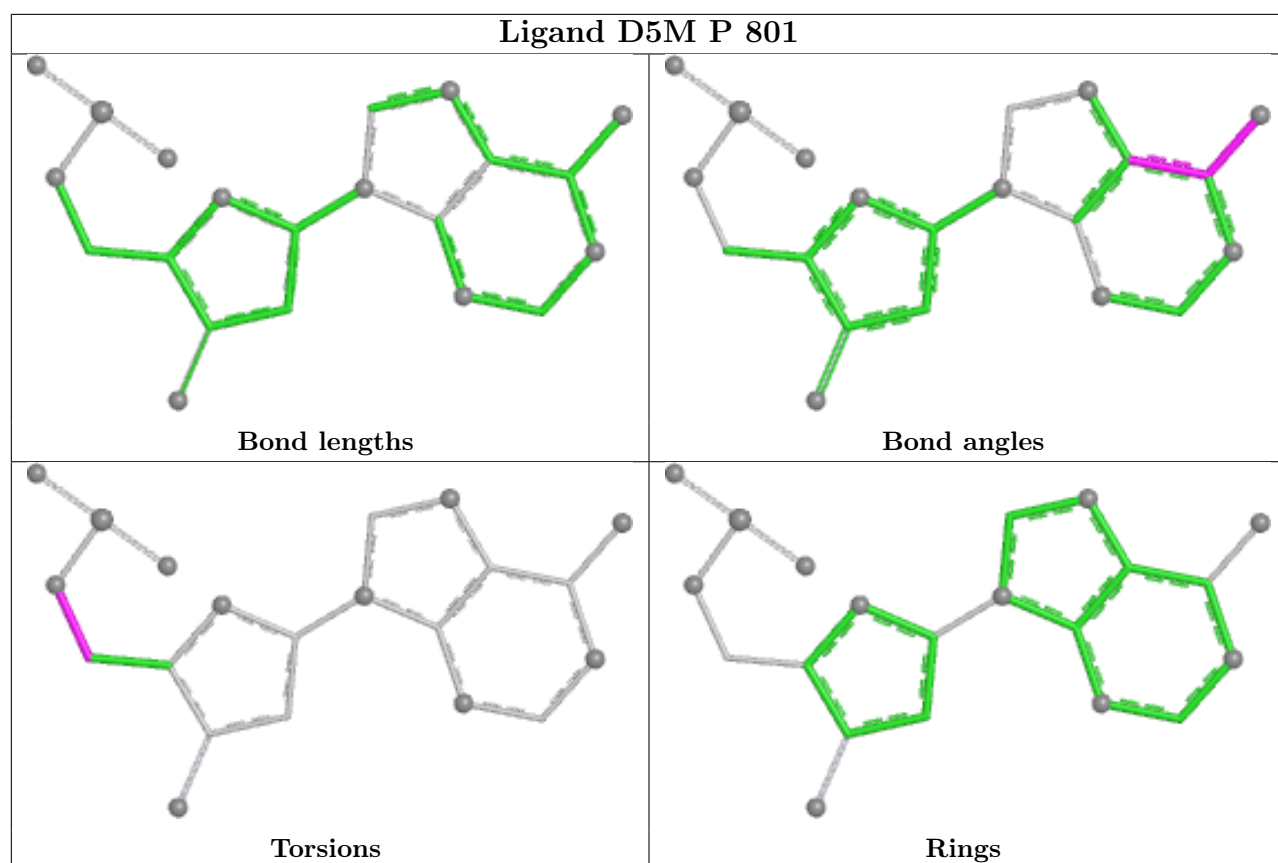


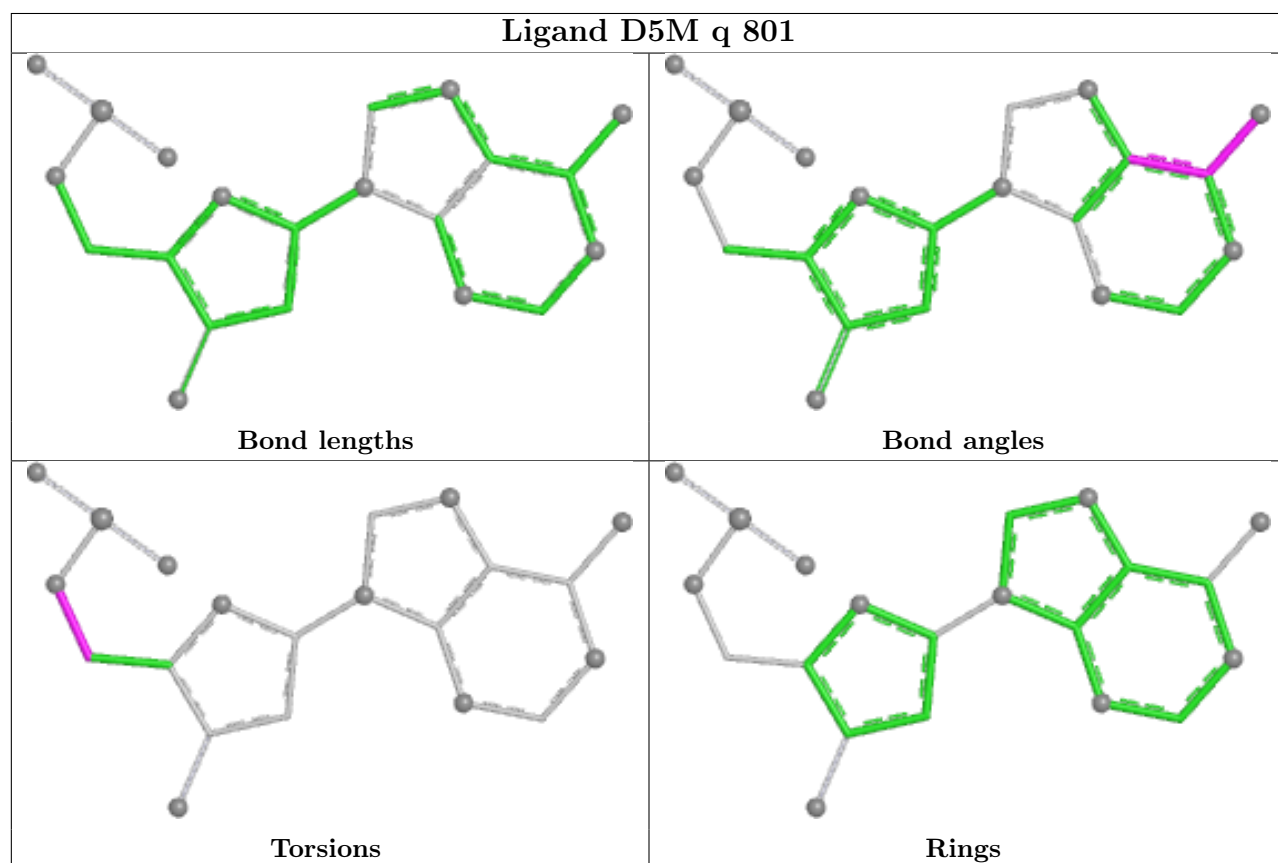
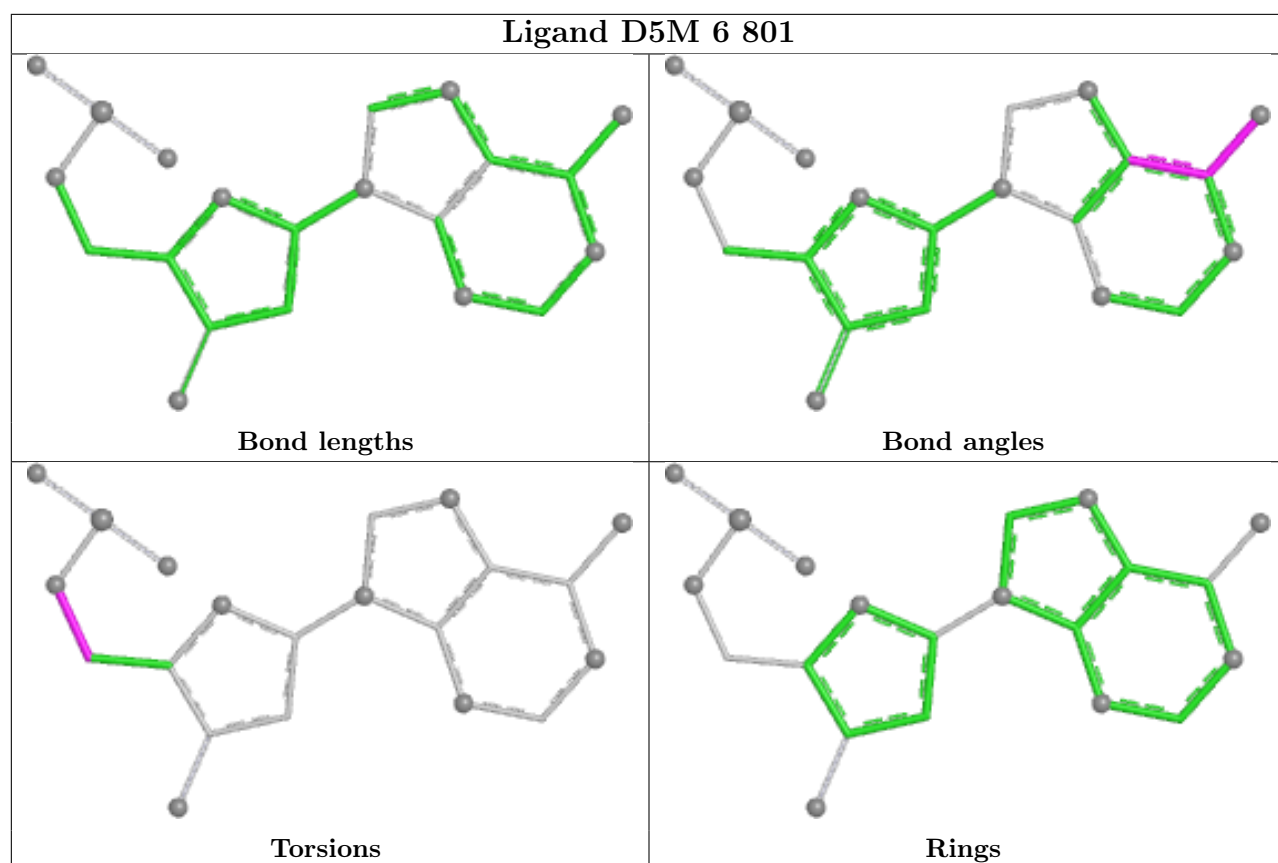


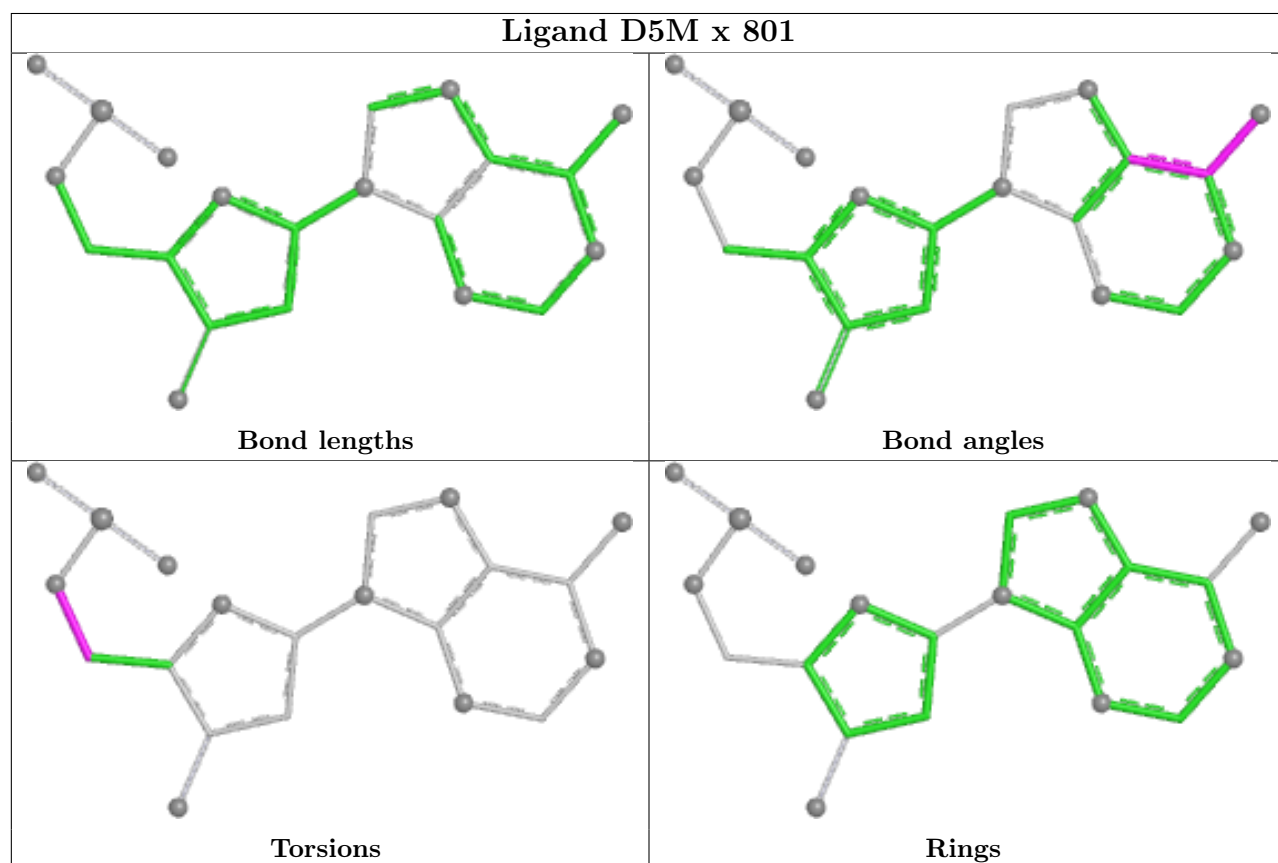
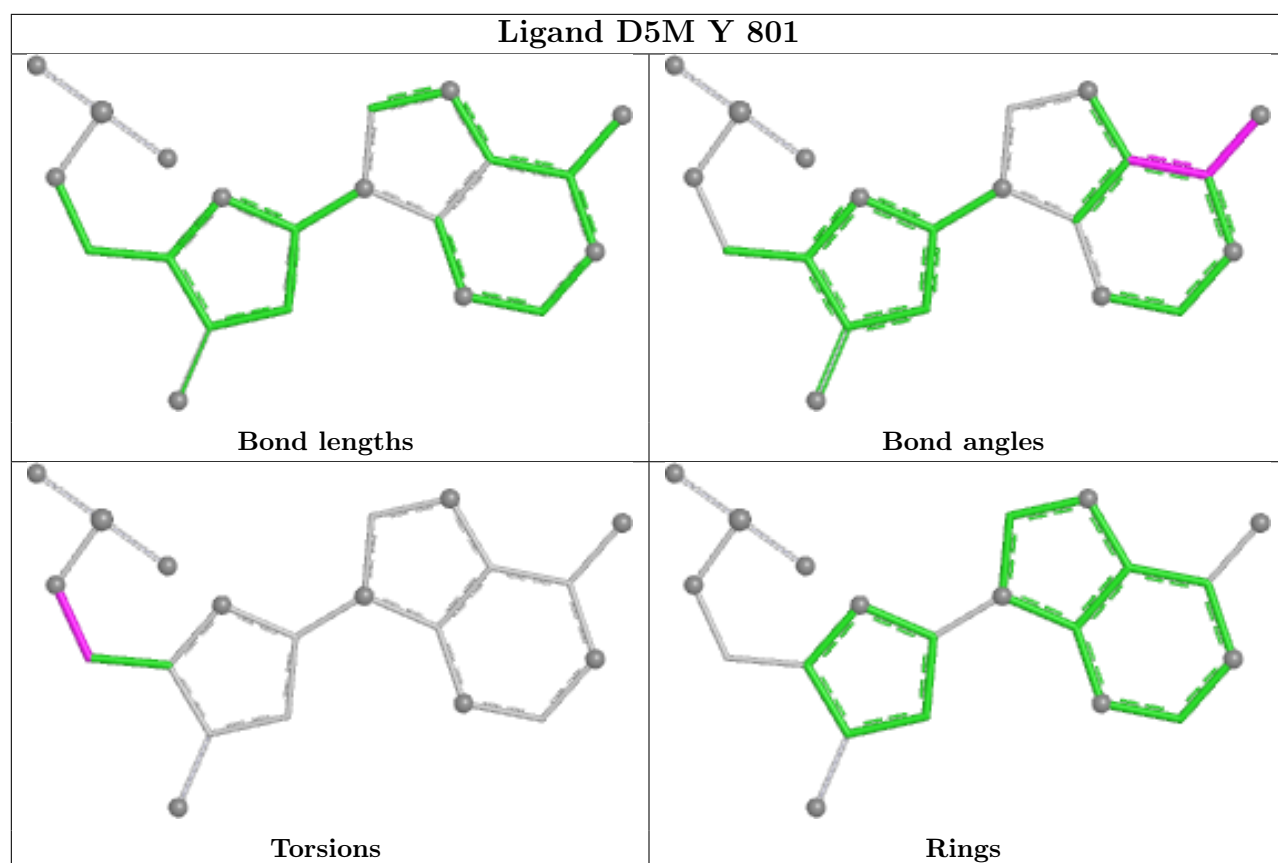


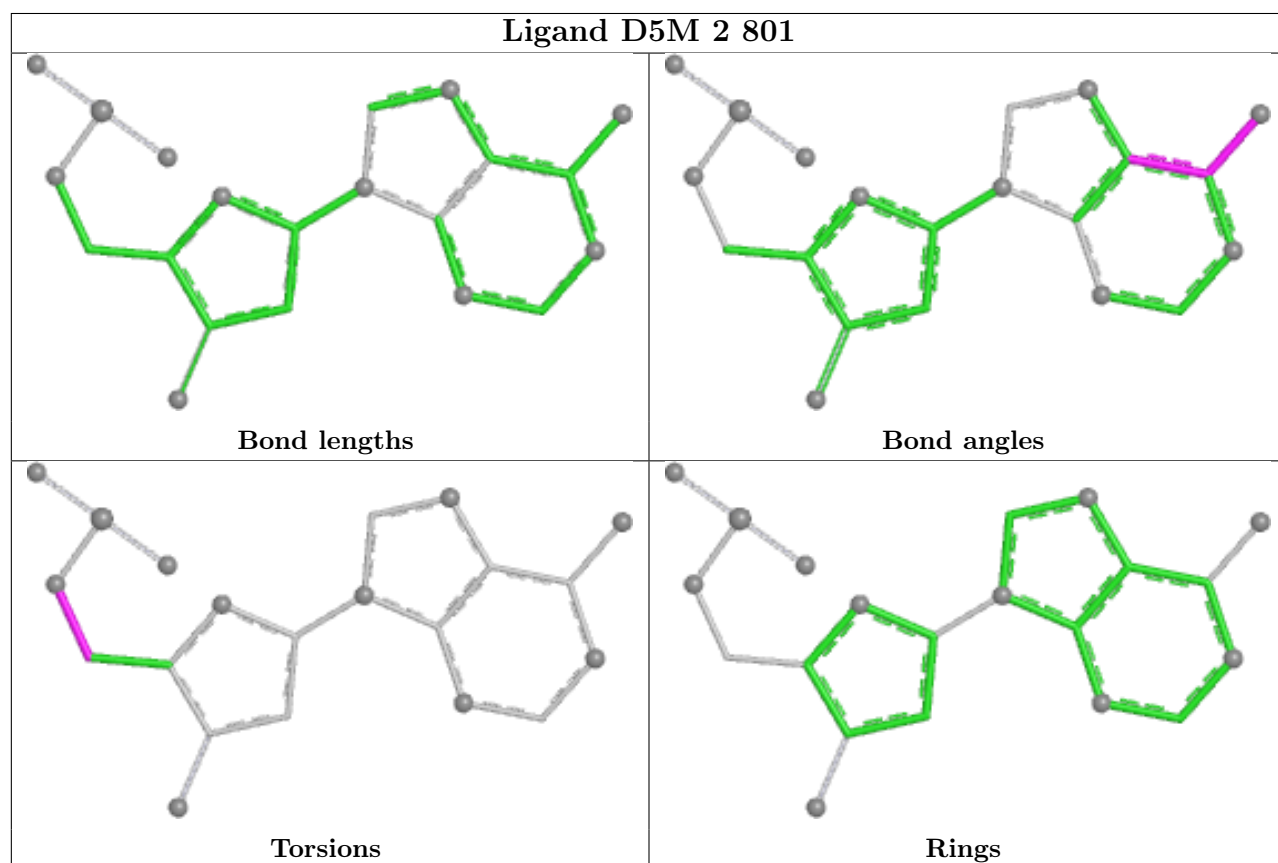
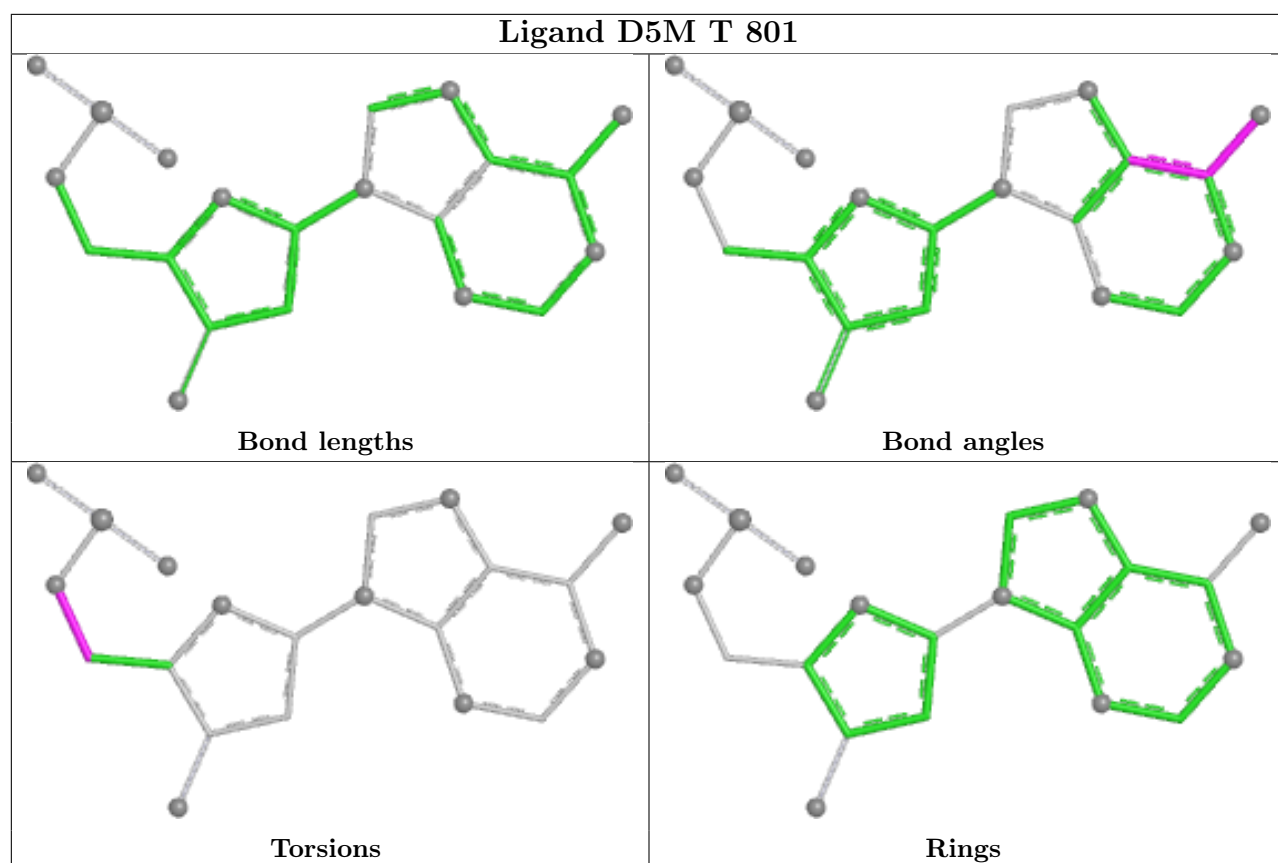


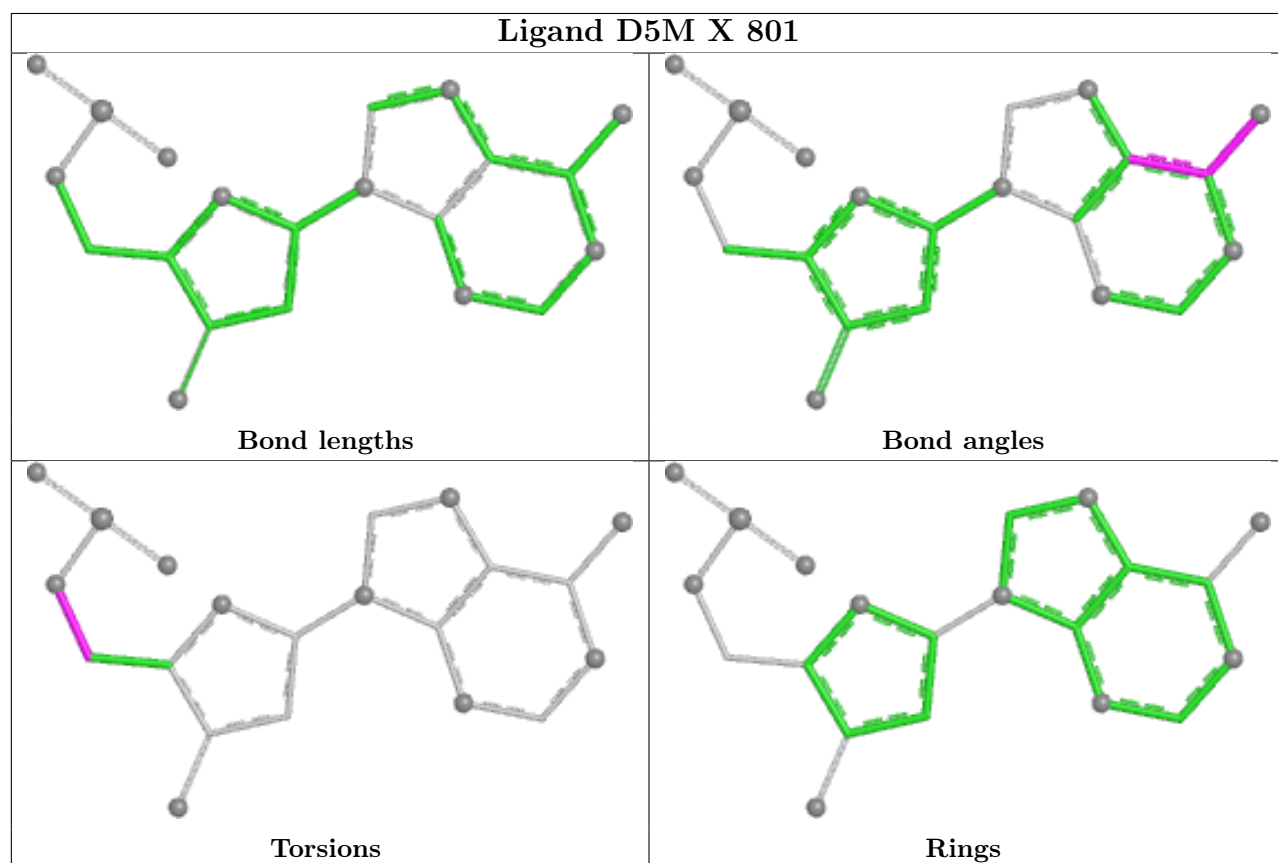
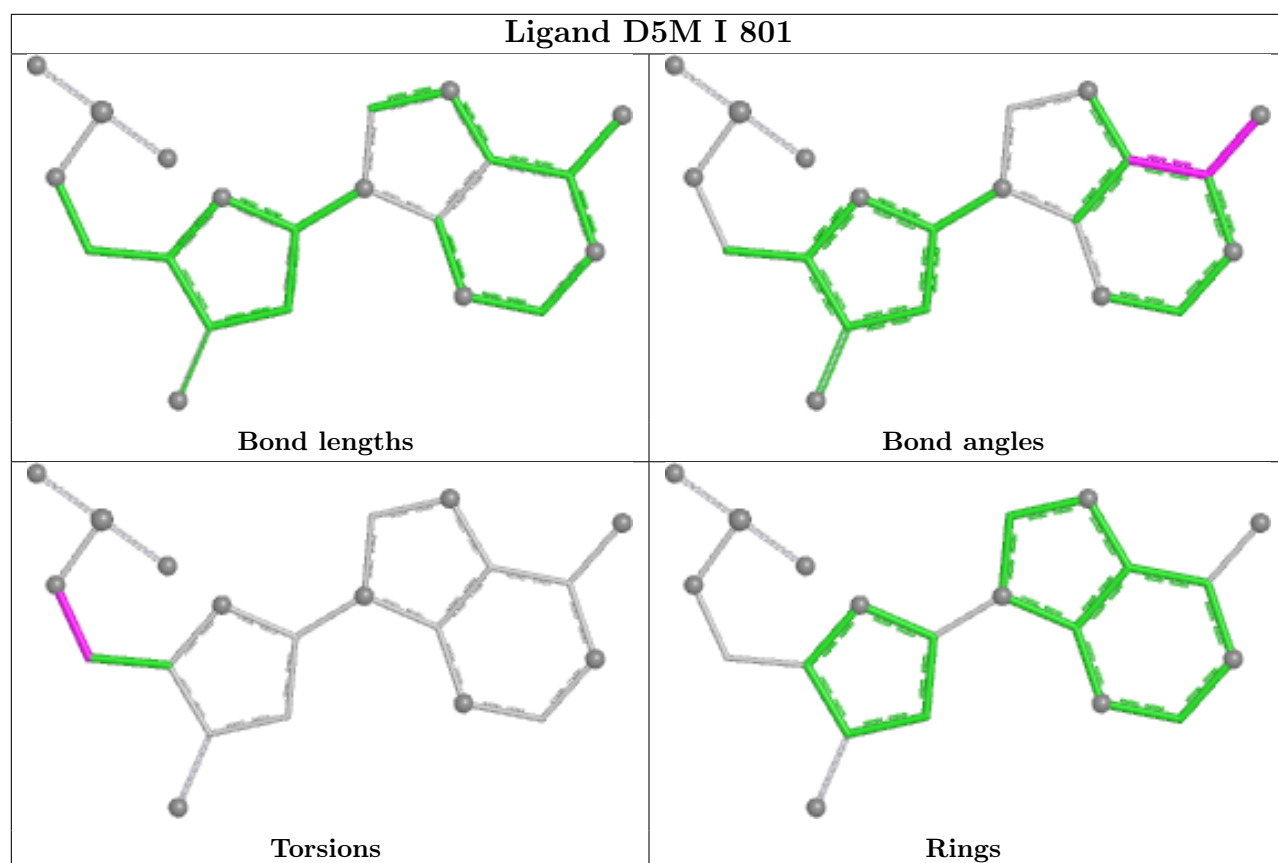


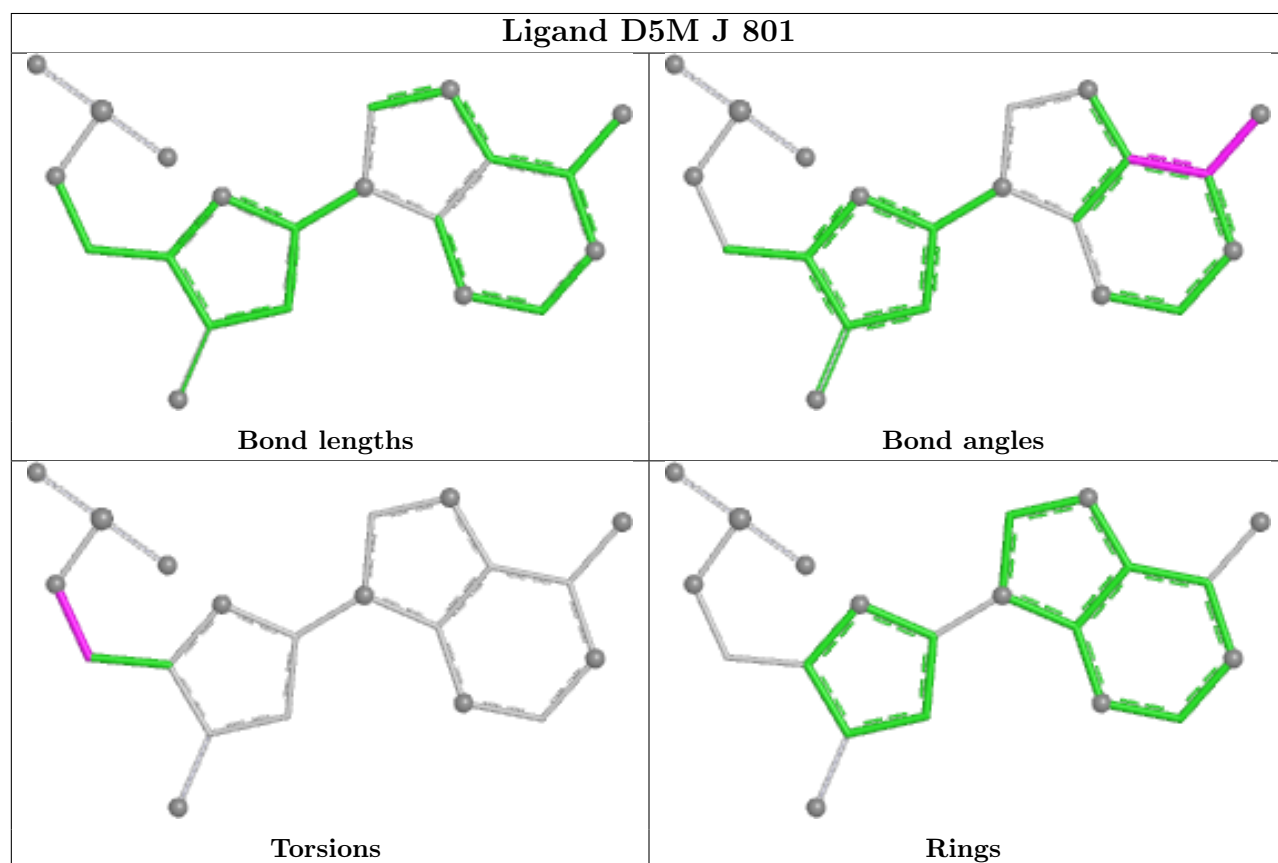
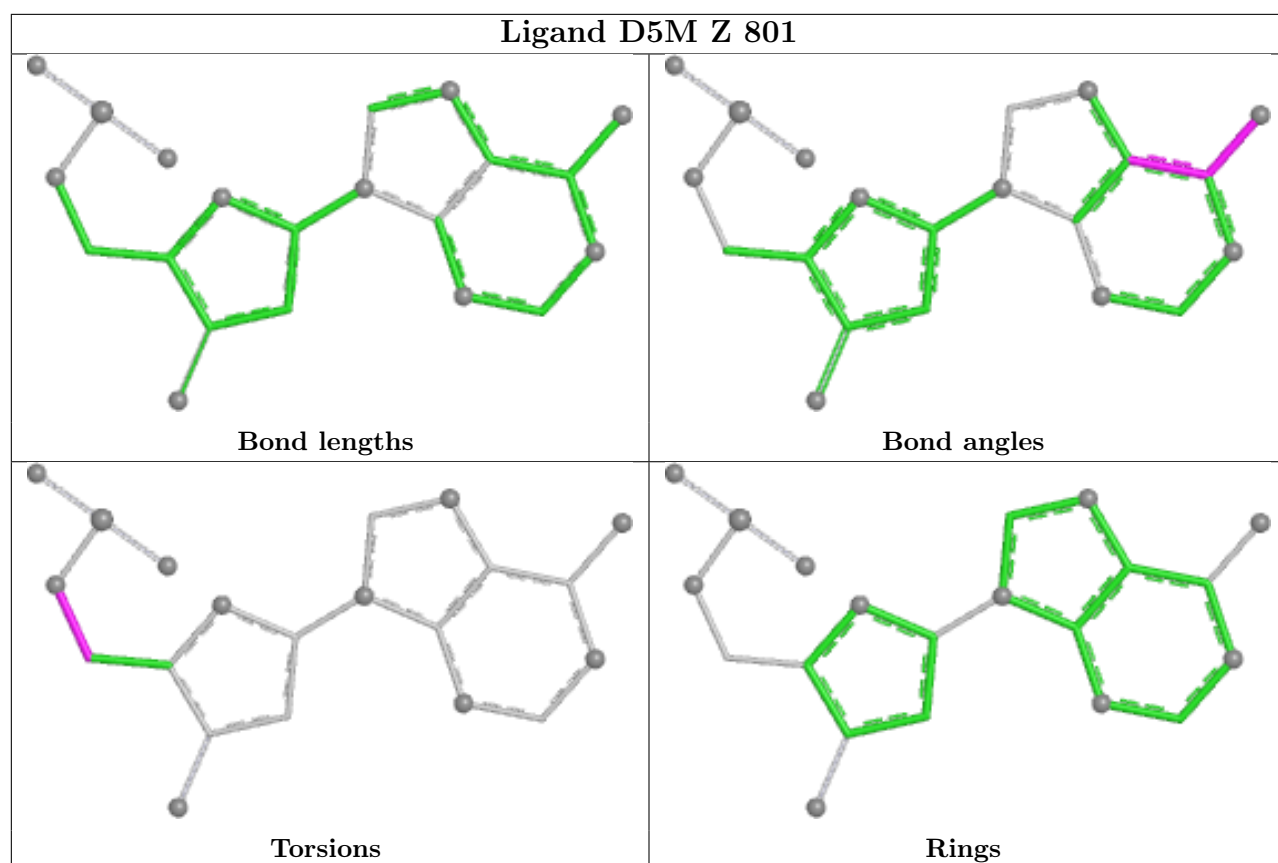


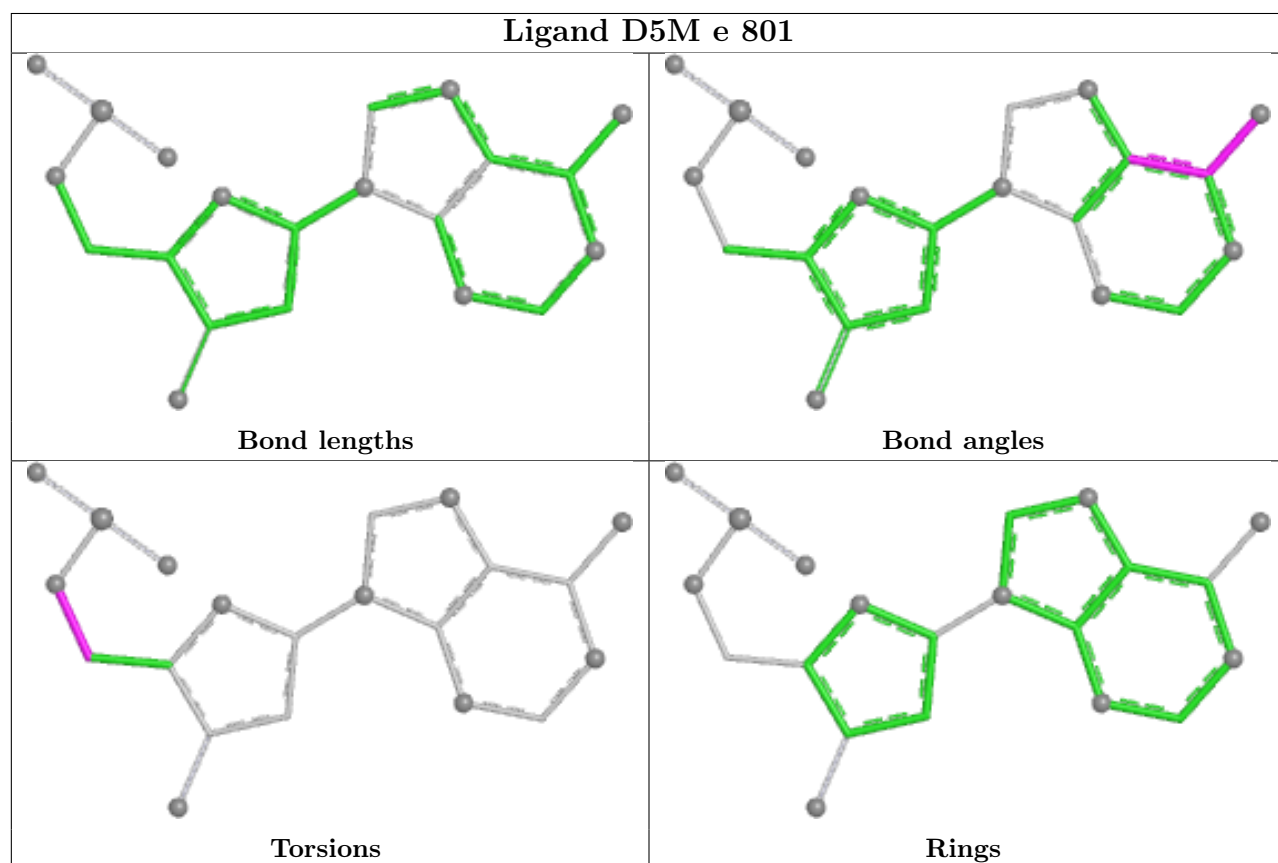
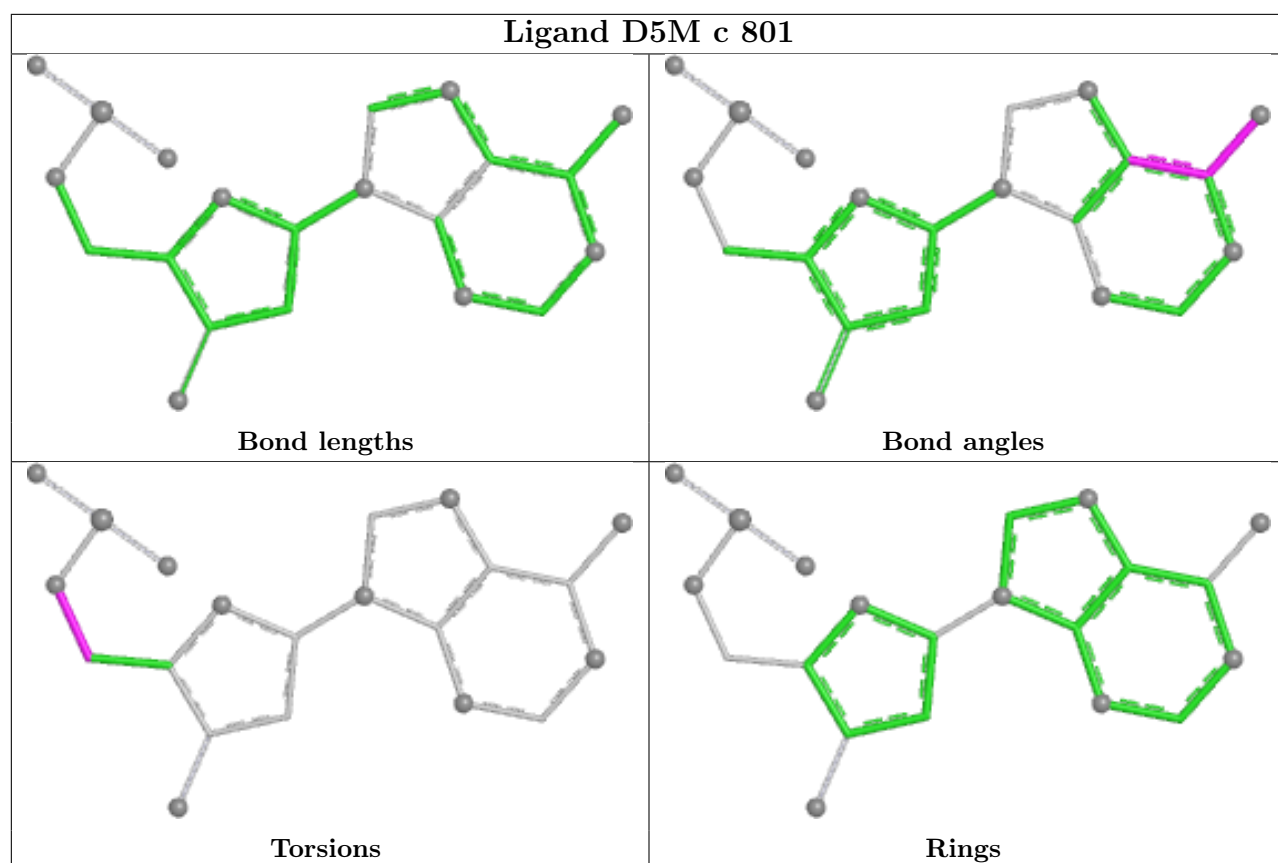


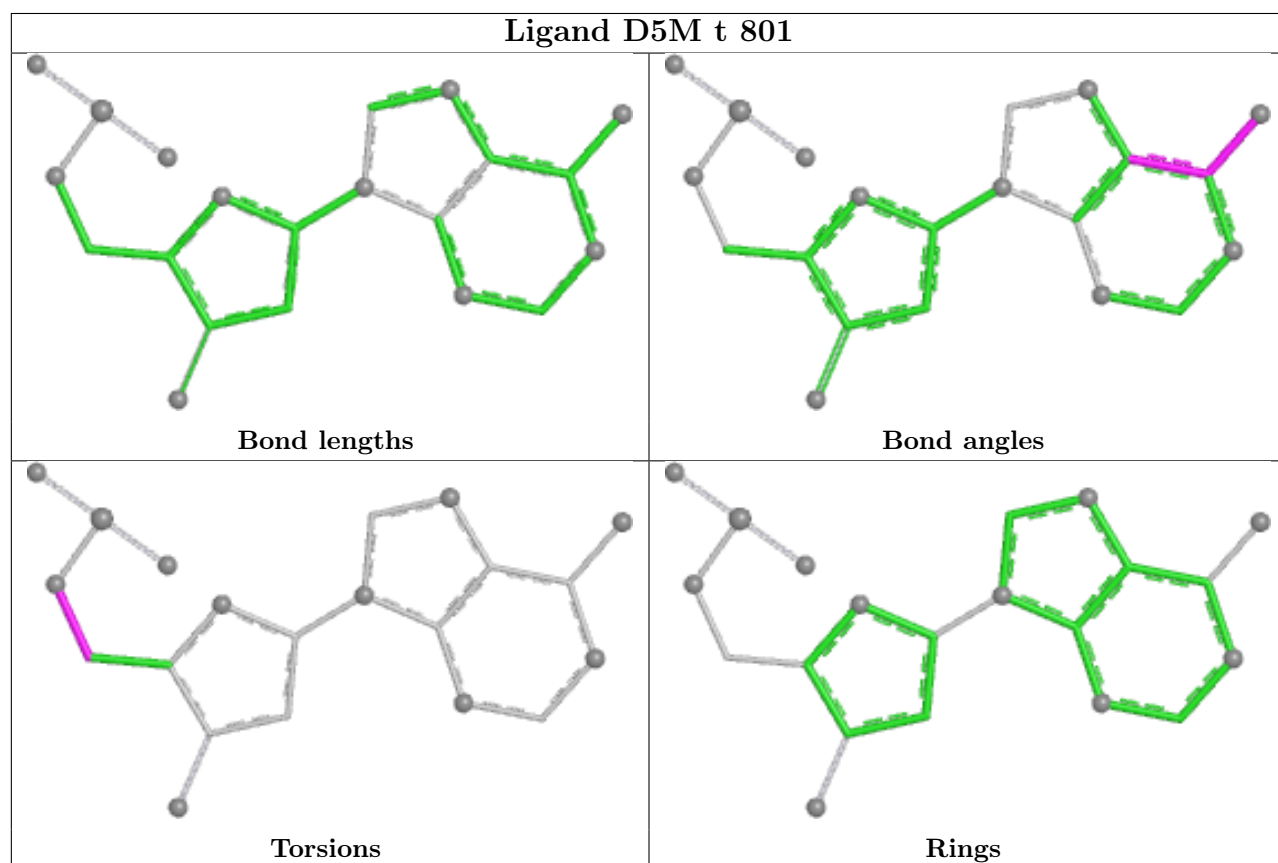
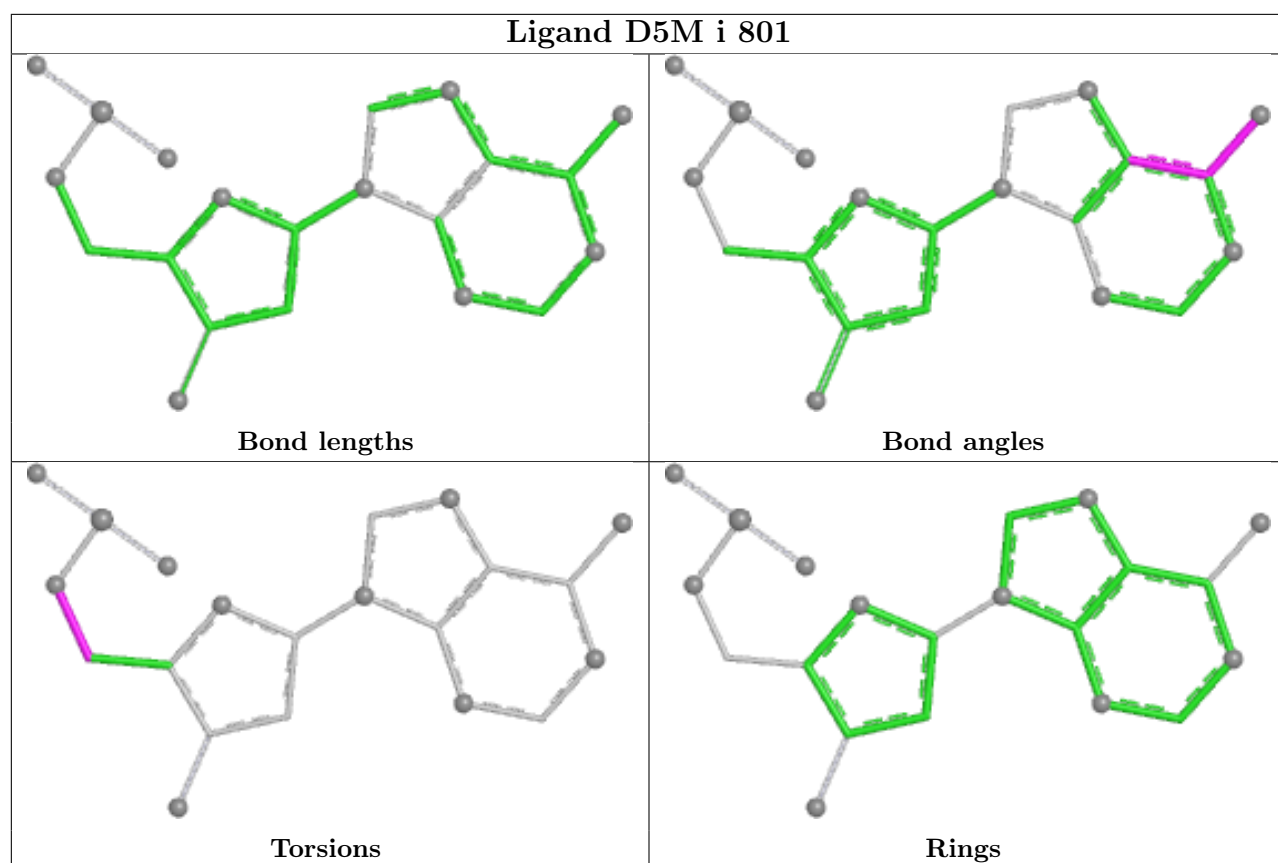


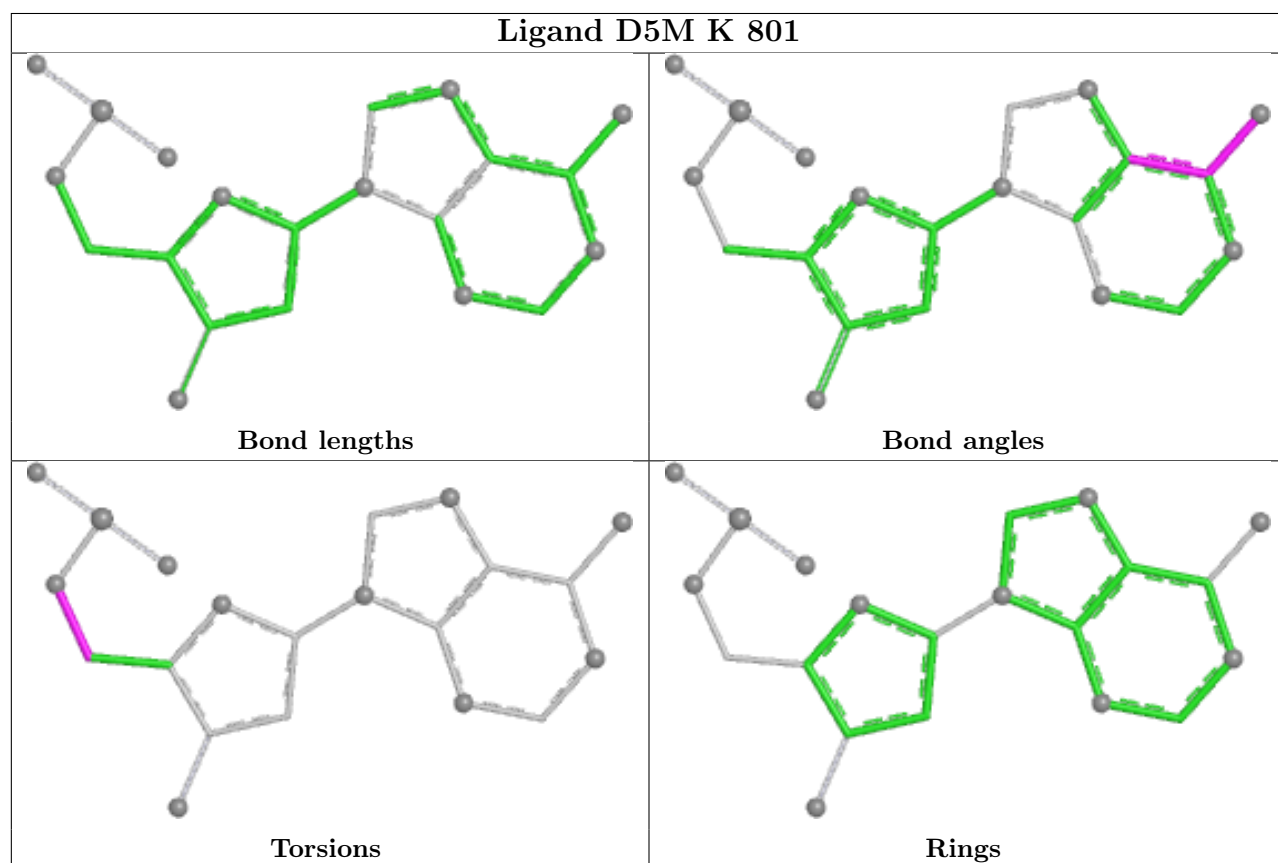
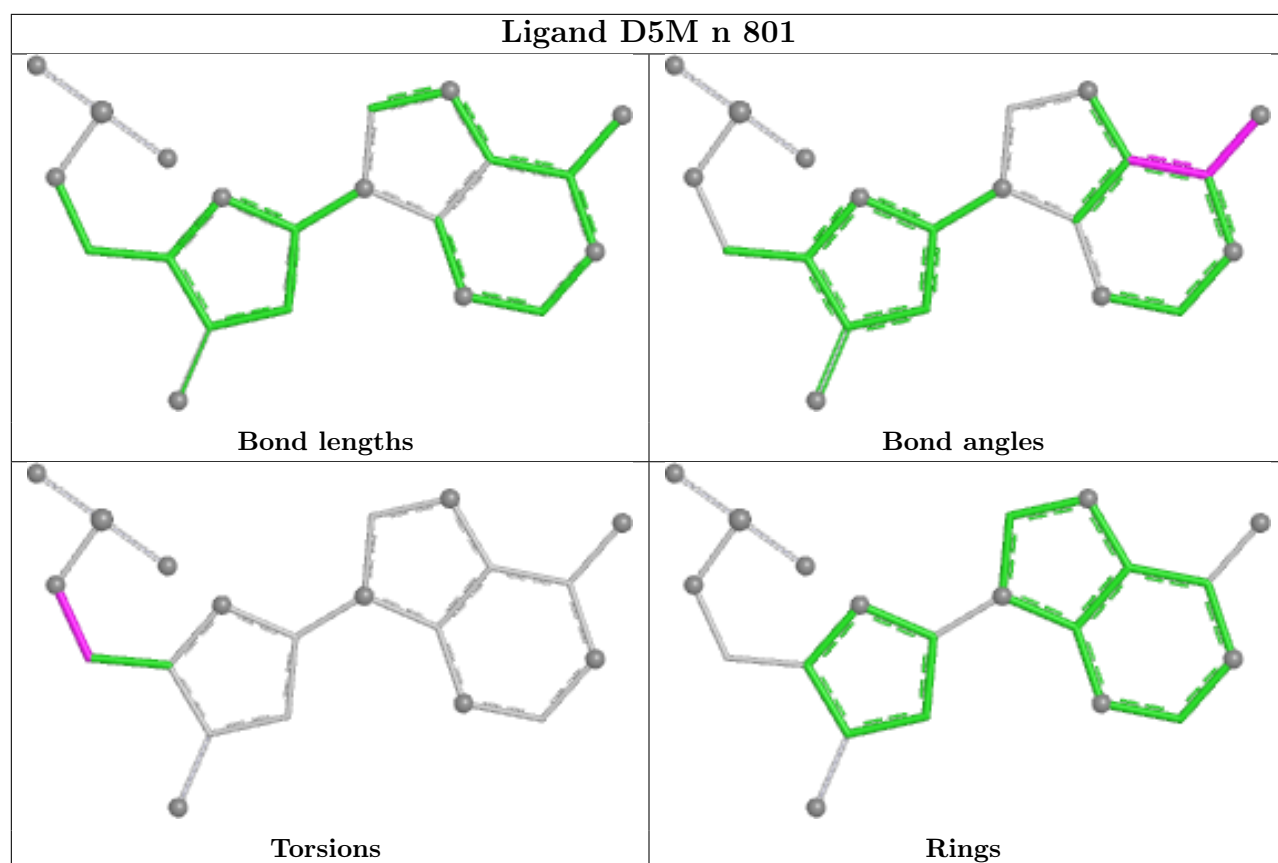


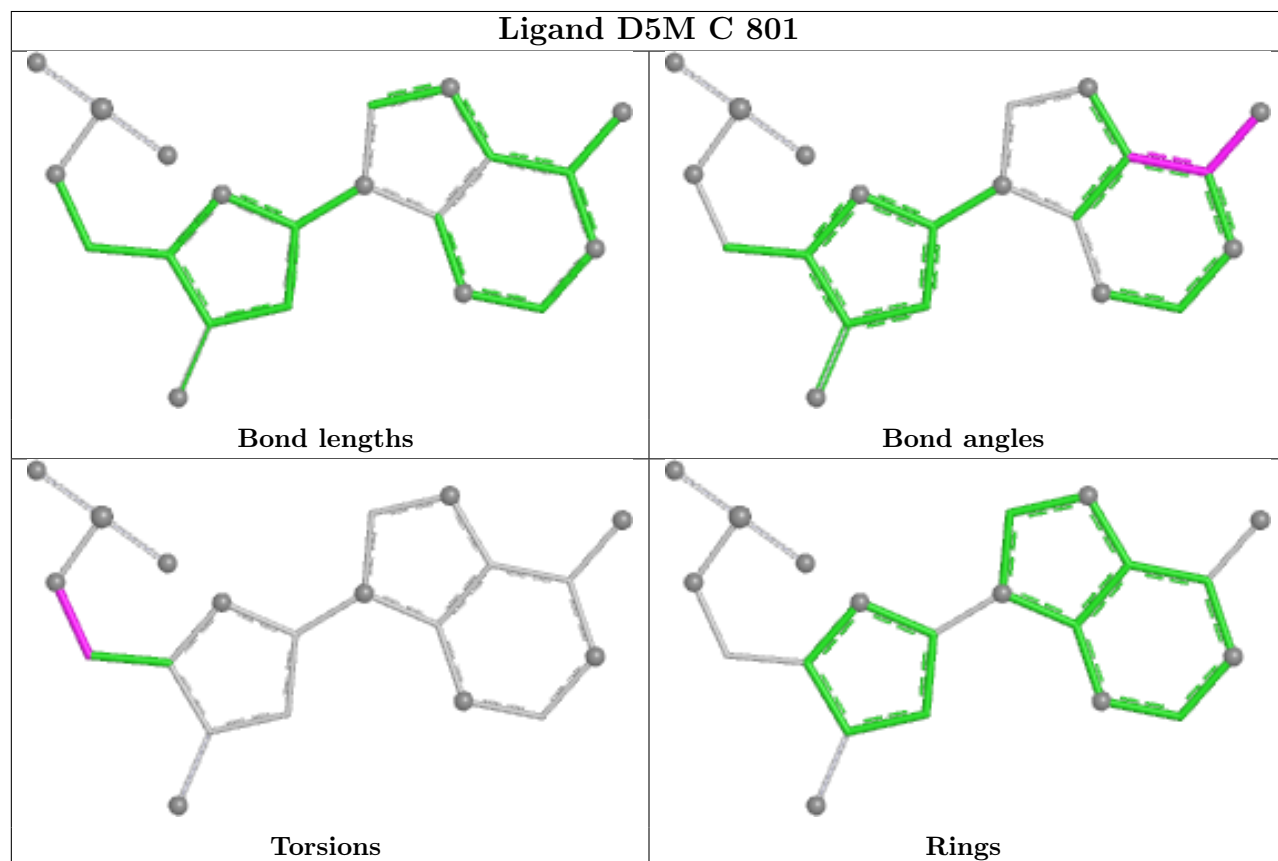
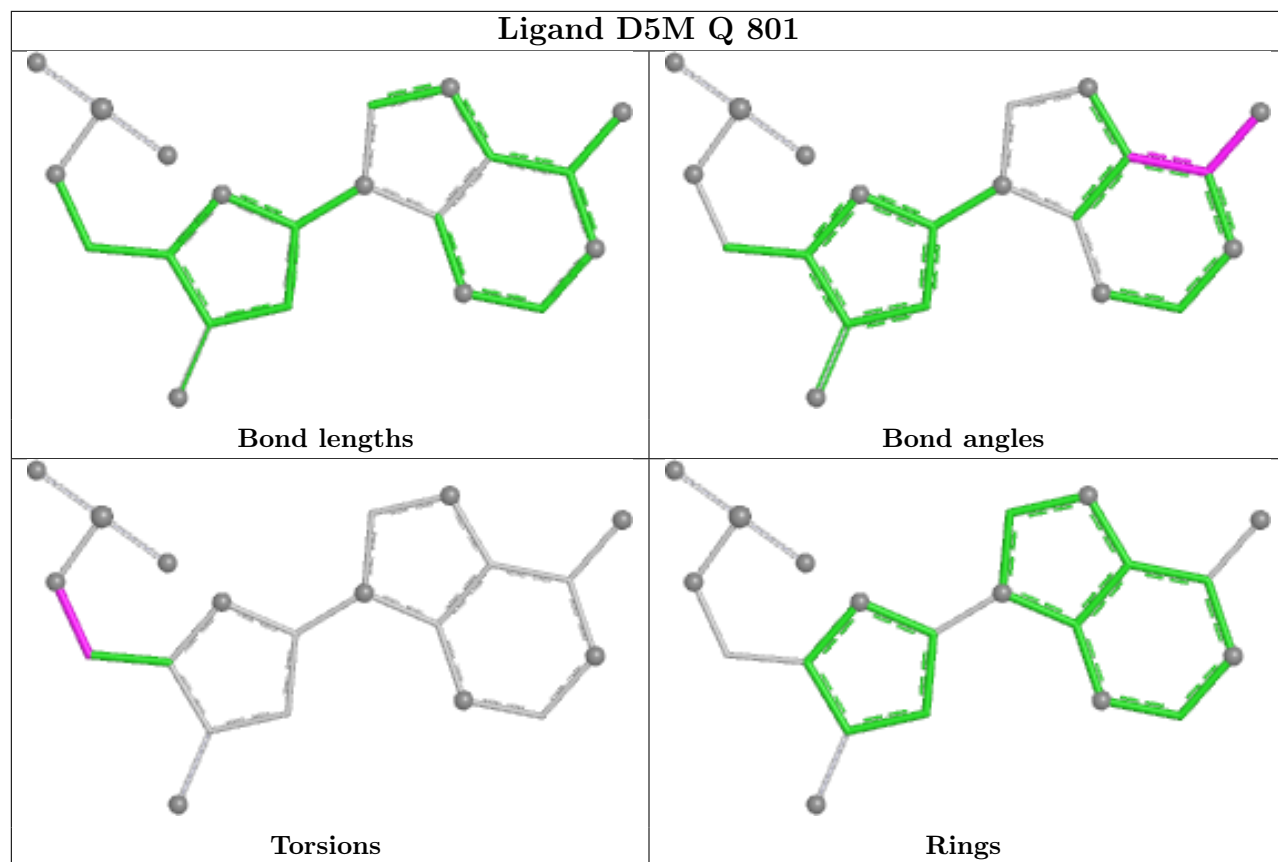


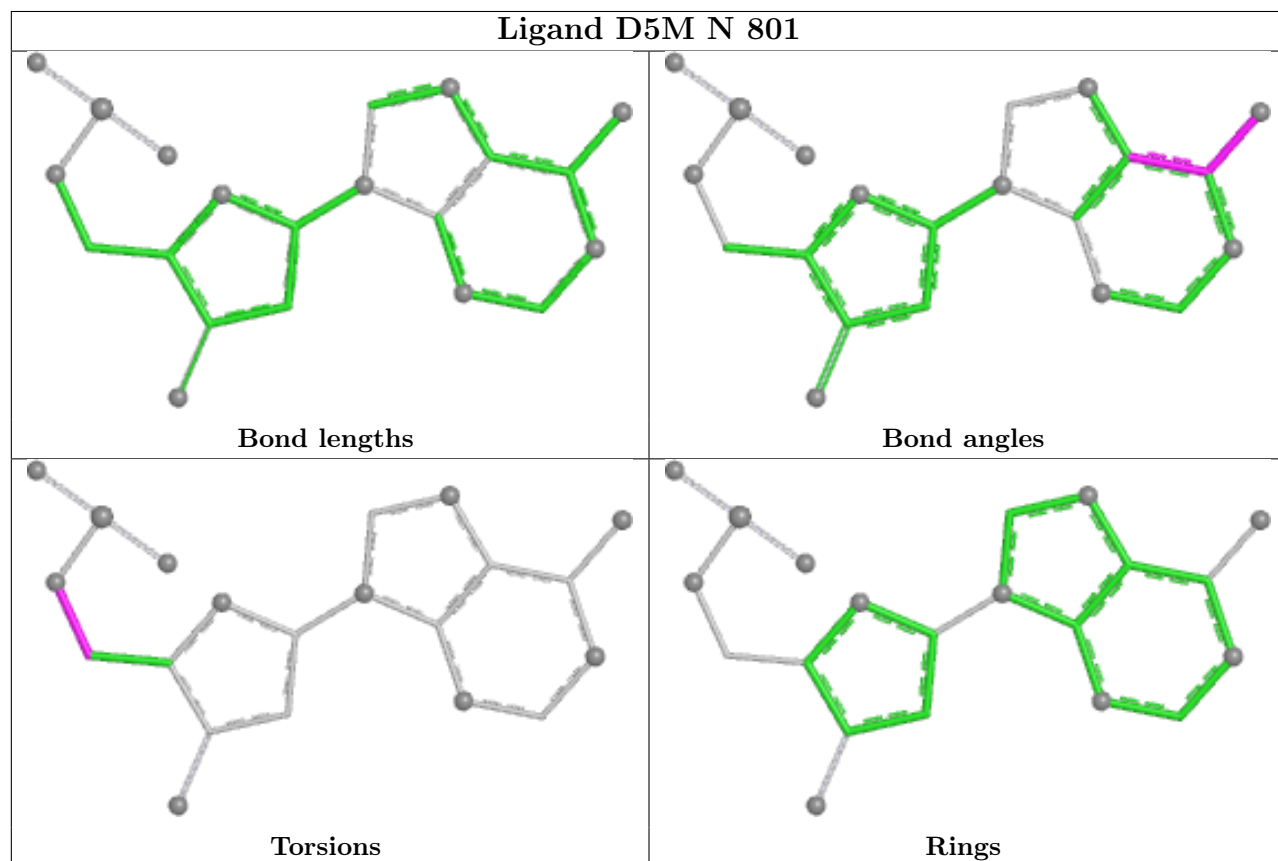
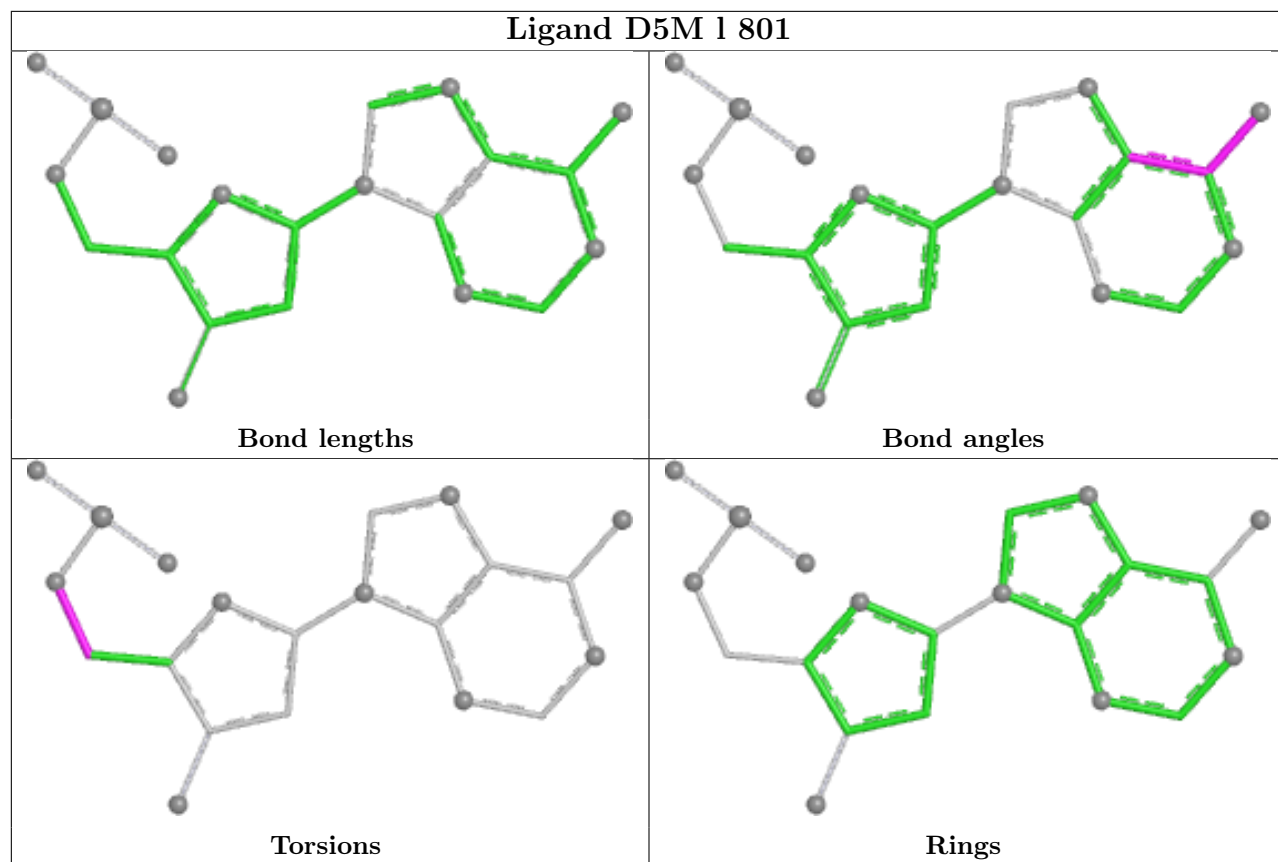


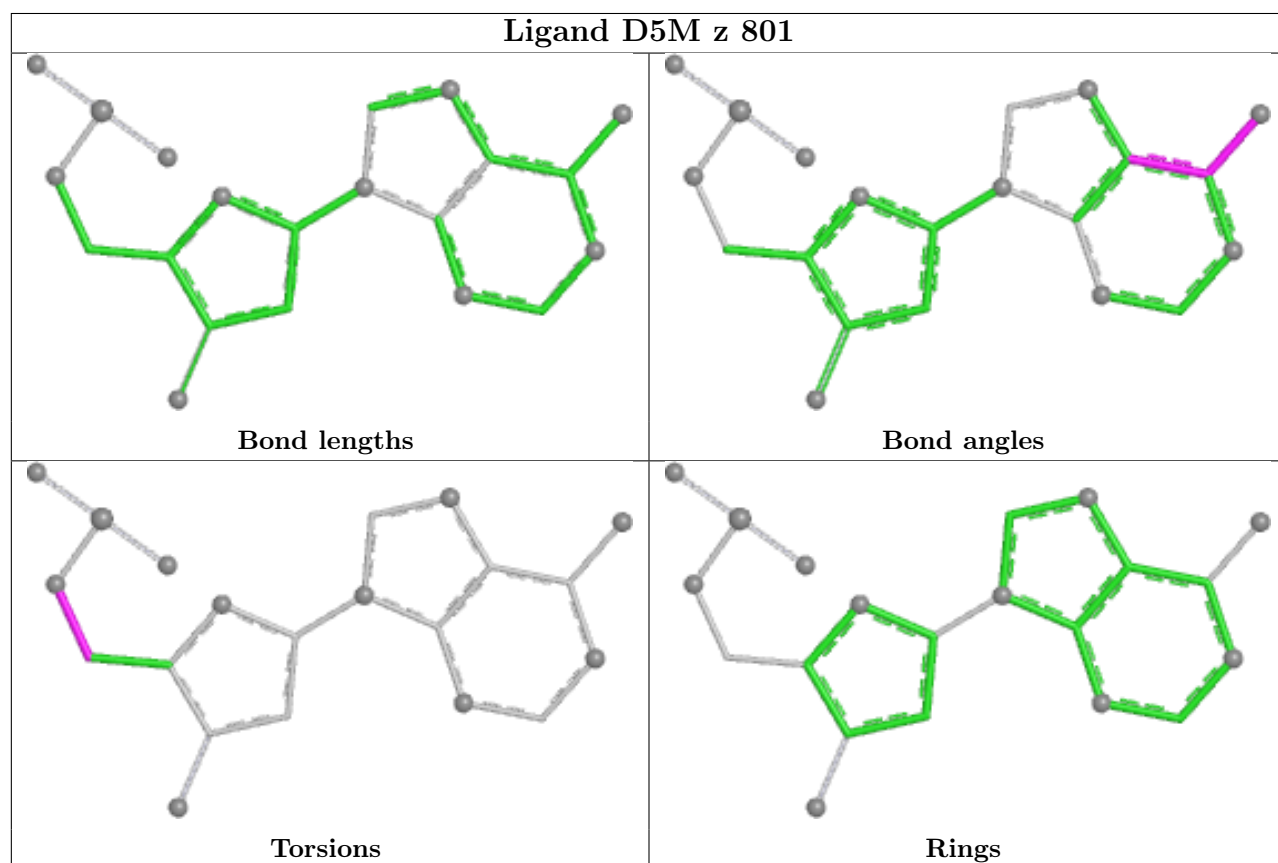
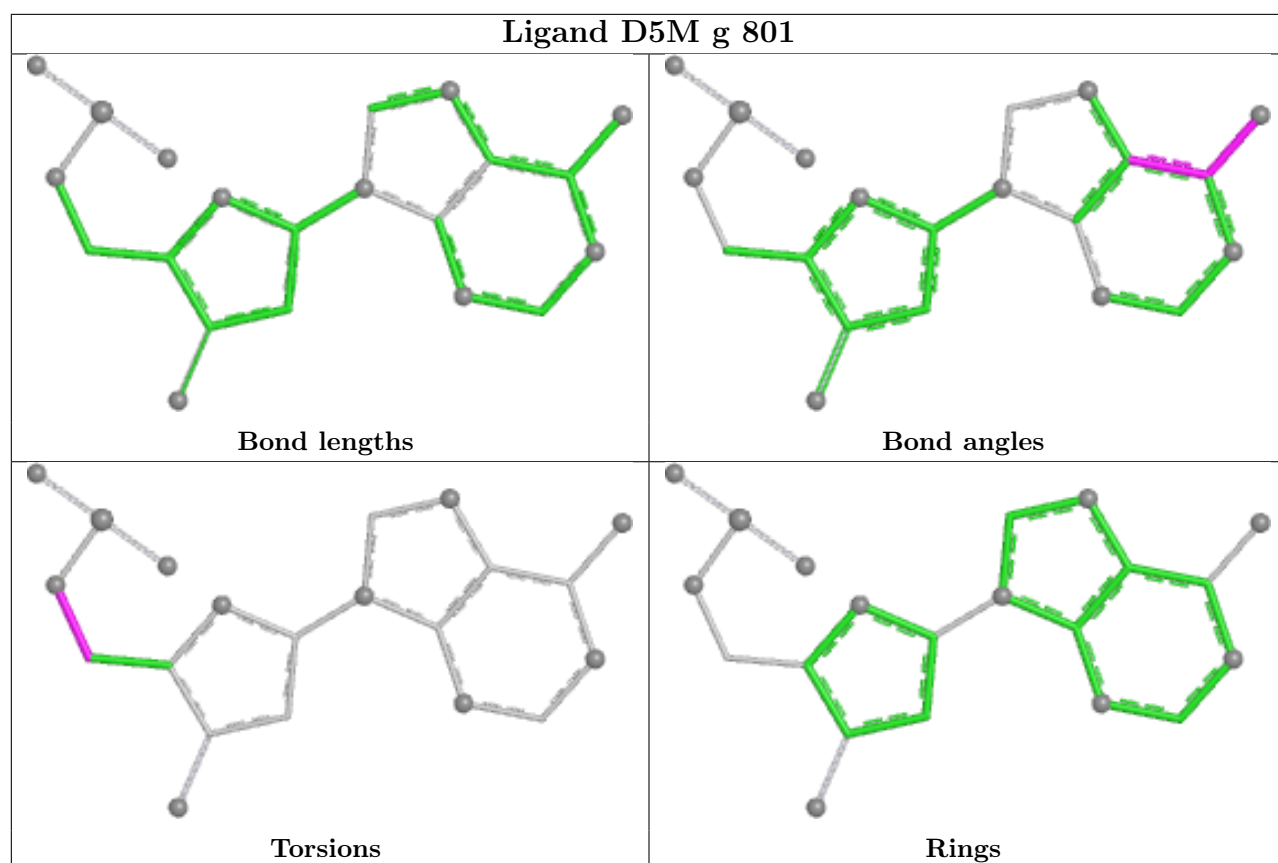


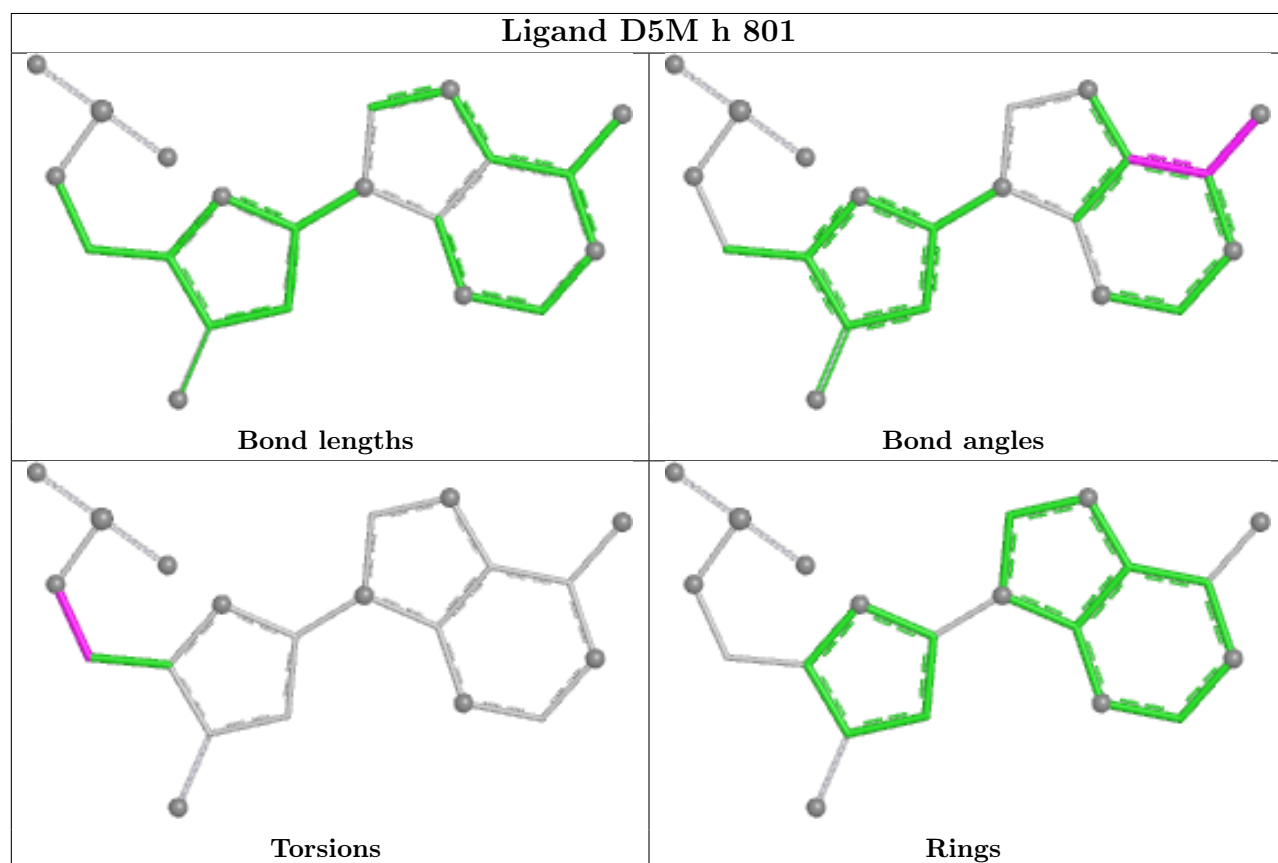
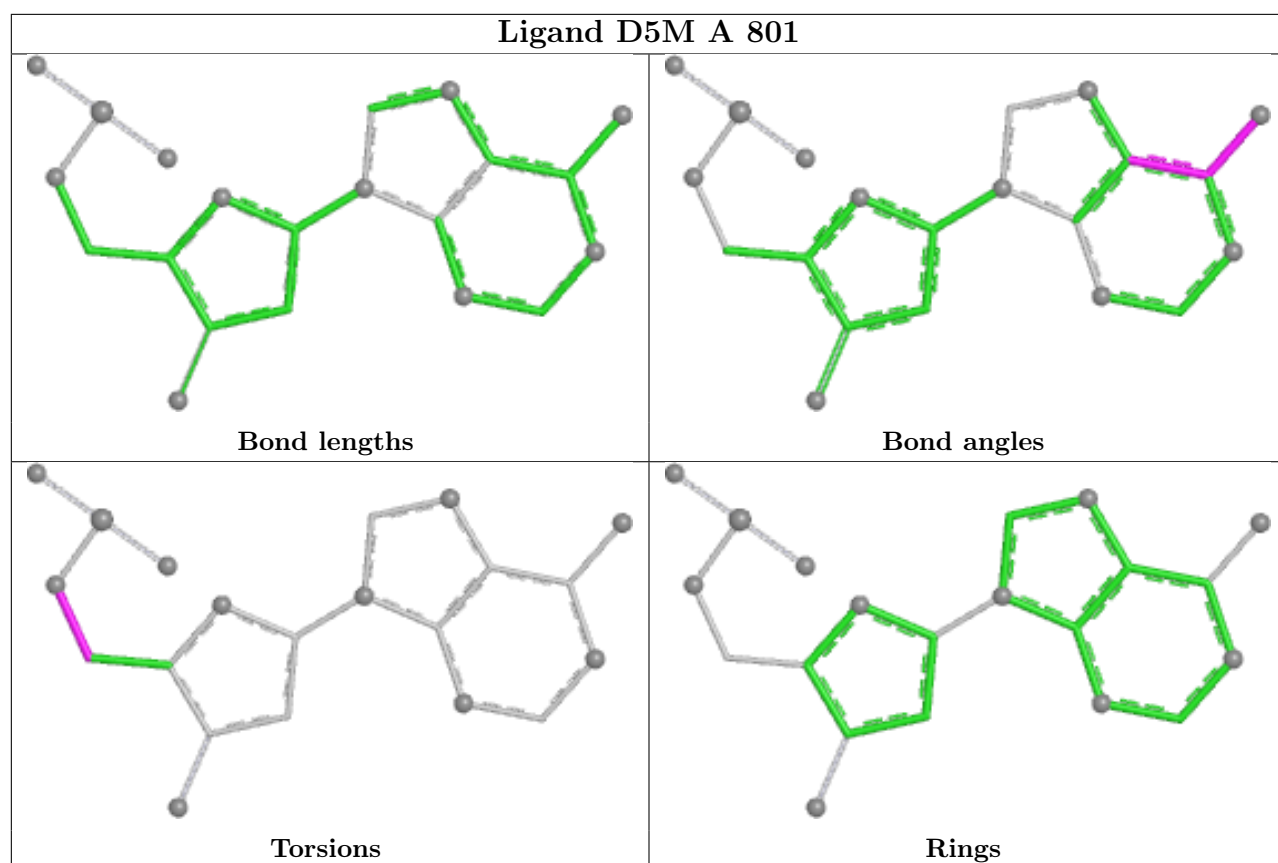


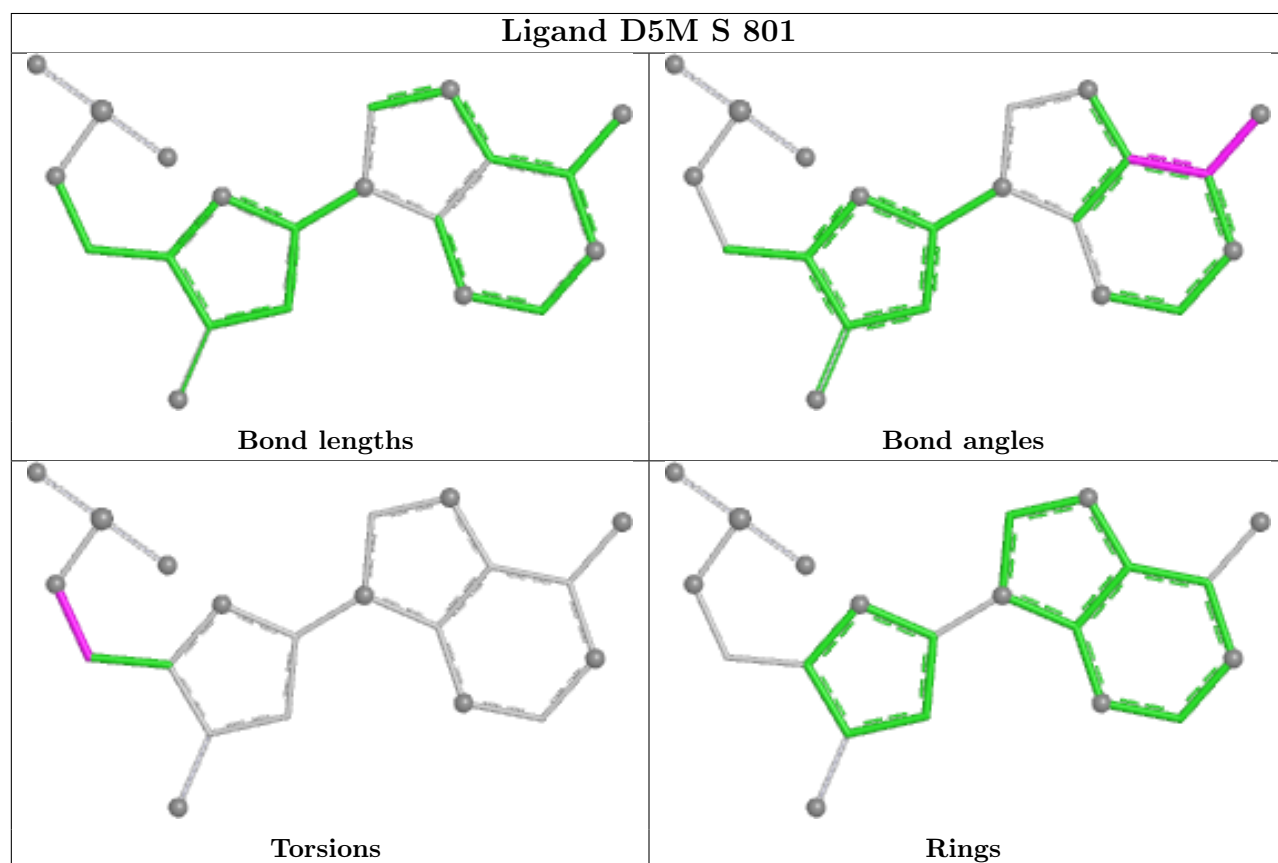
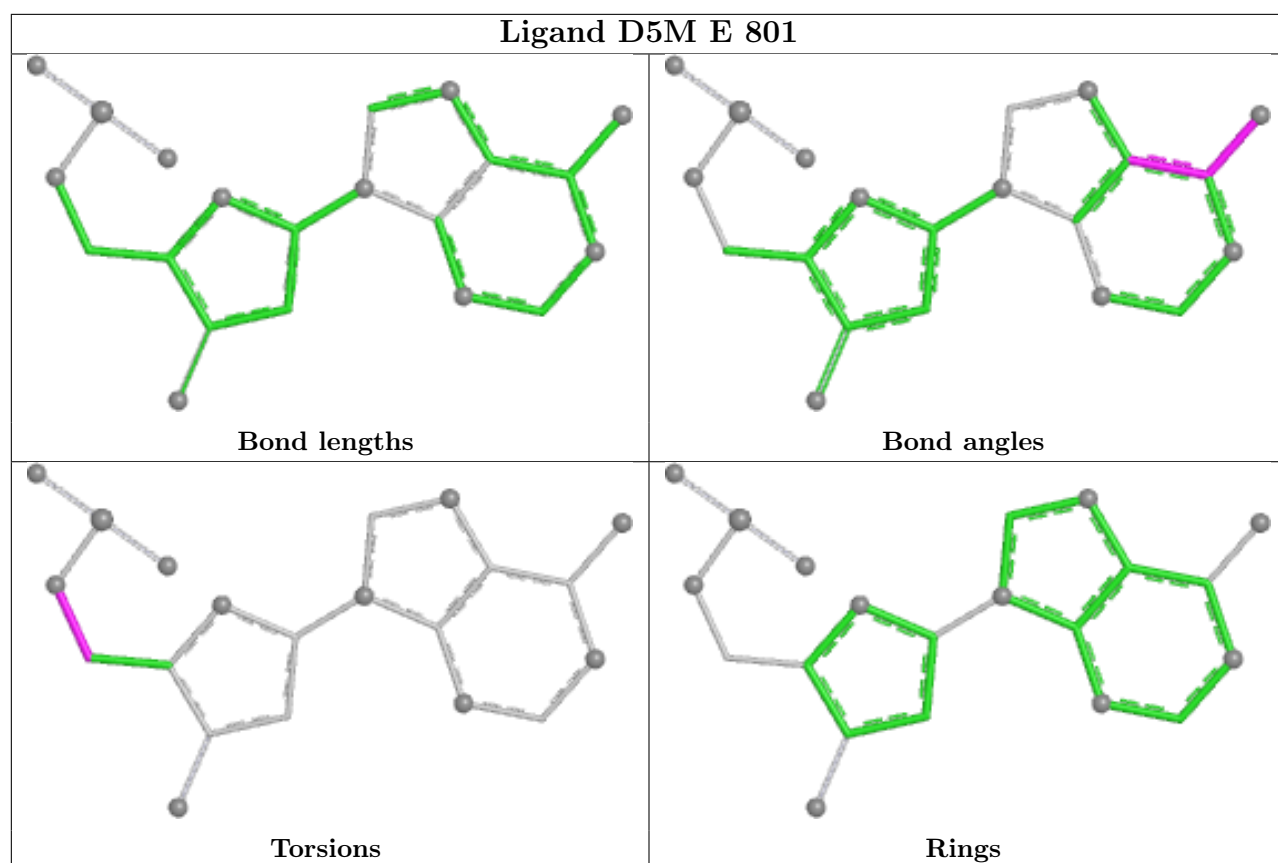


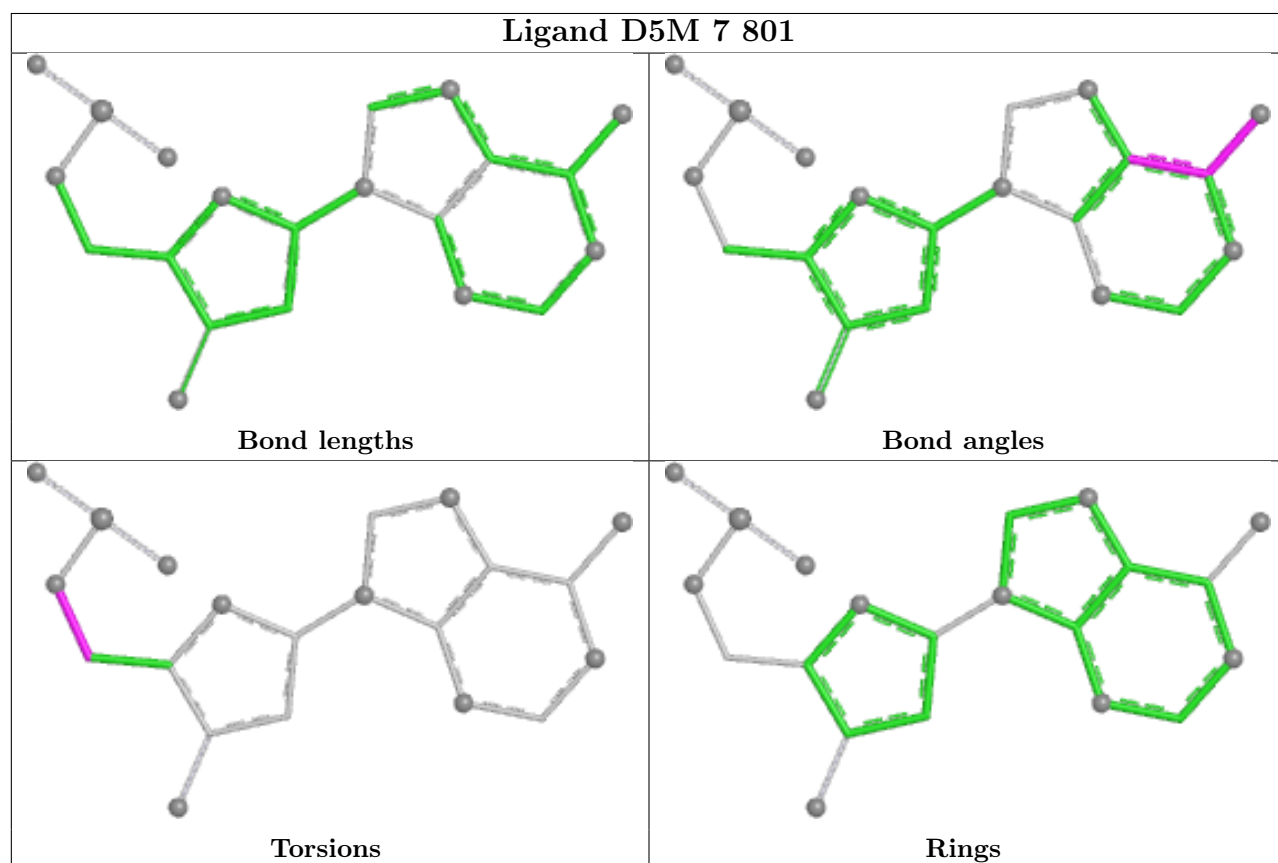
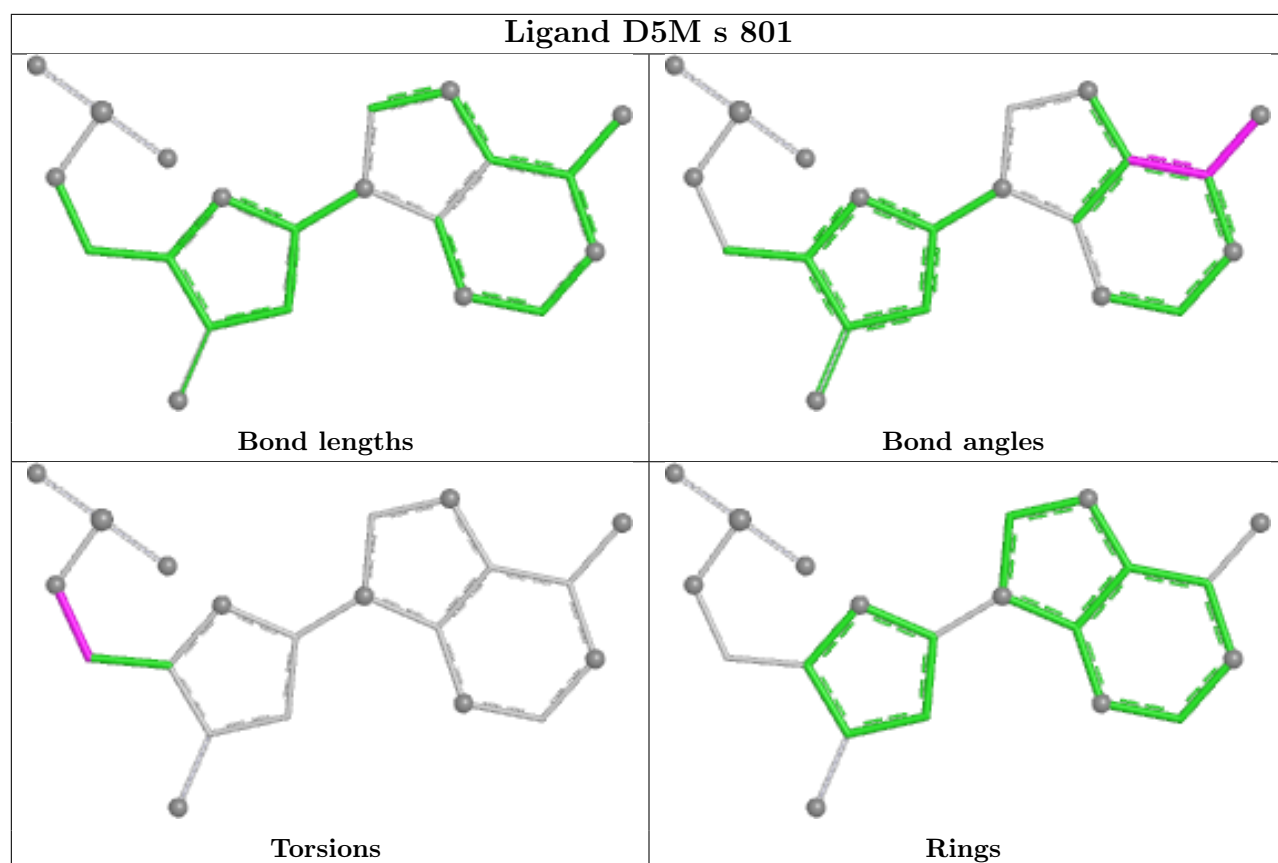


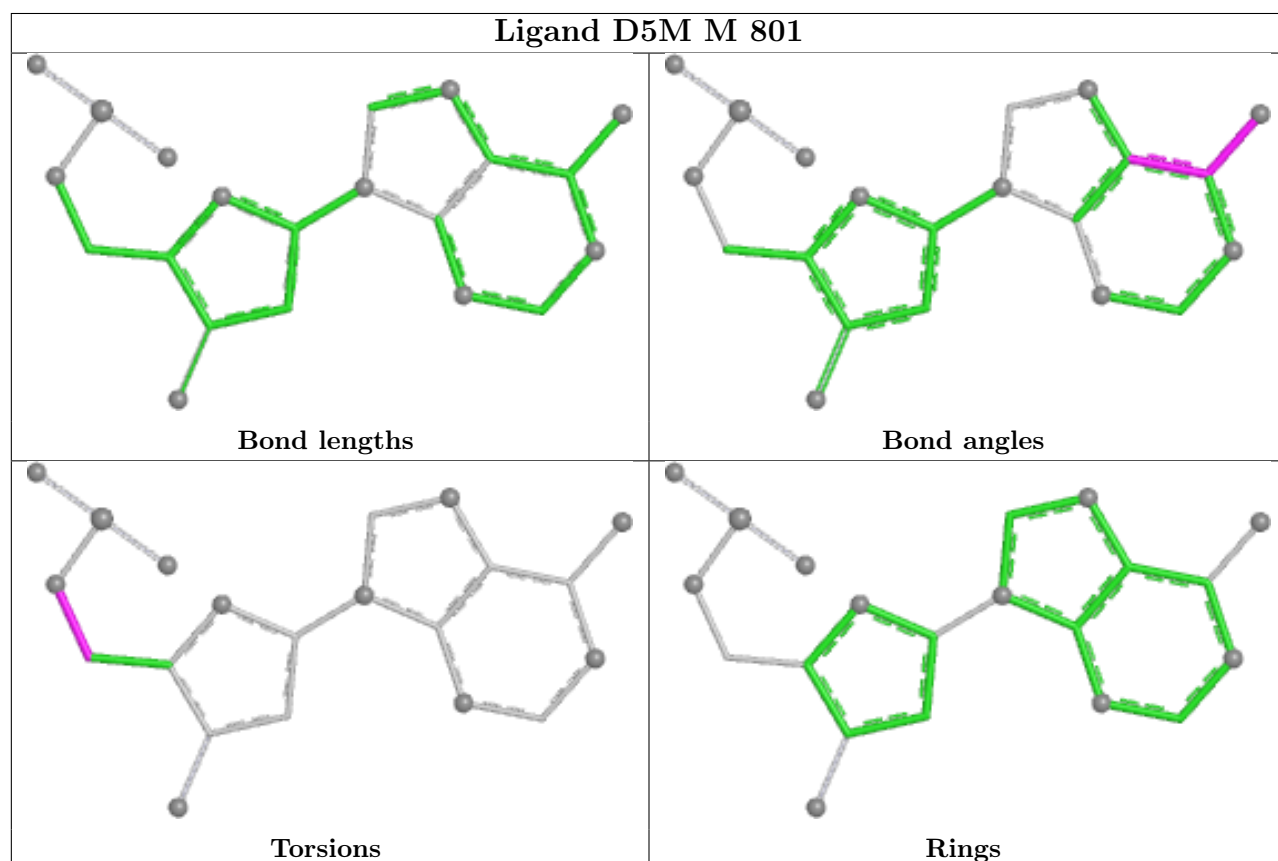
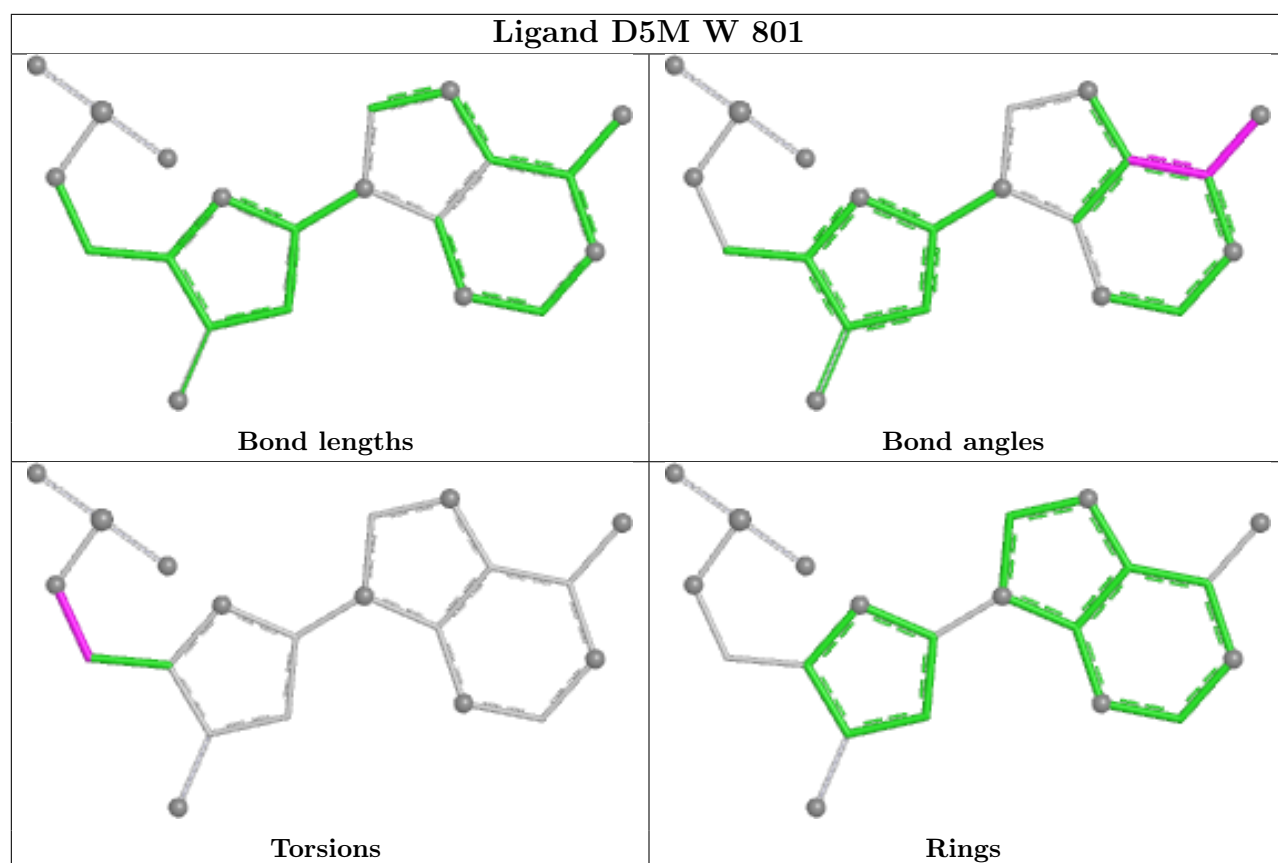












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

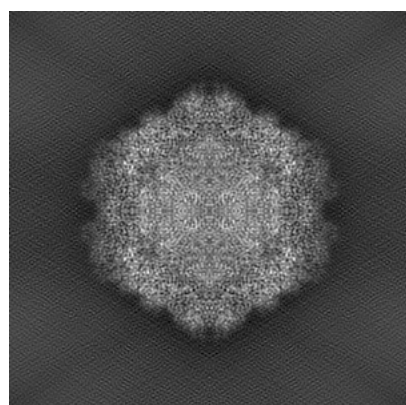
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-21656. These allow visual inspection of the internal detail of the map and identification of artifacts.

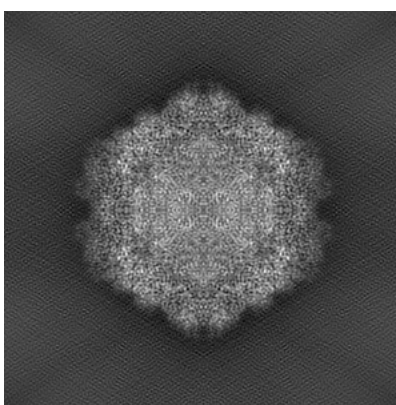
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

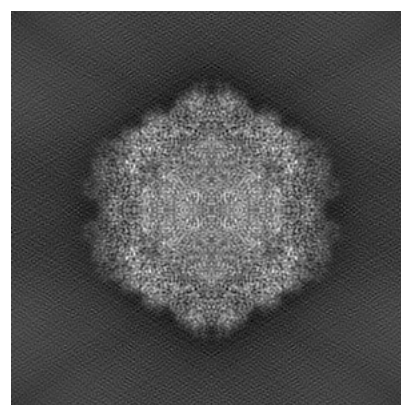
6.1.1 Primary map



X



Y

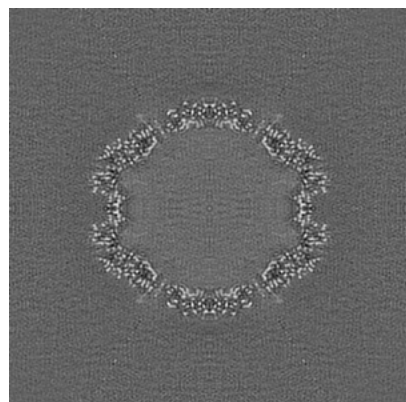


Z

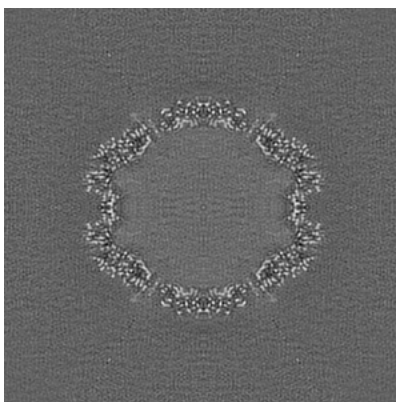
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

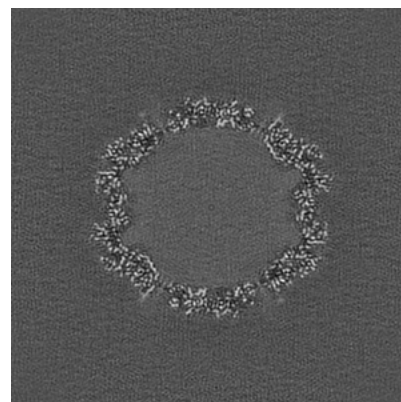
6.2.1 Primary map



X Index: 200



Y Index: 200

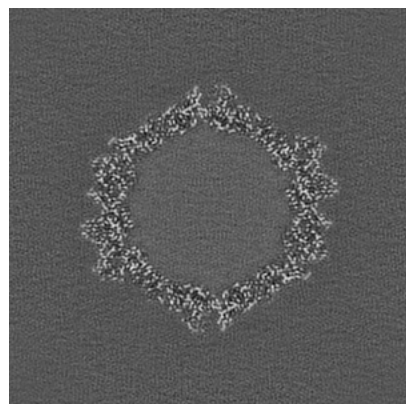


Z Index: 200

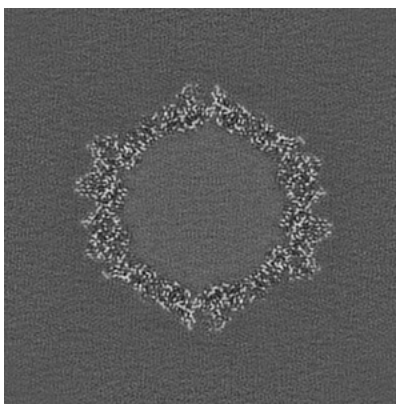
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

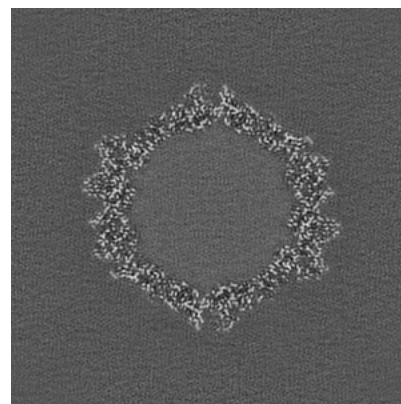
6.3.1 Primary map



X Index: 214



Y Index: 186

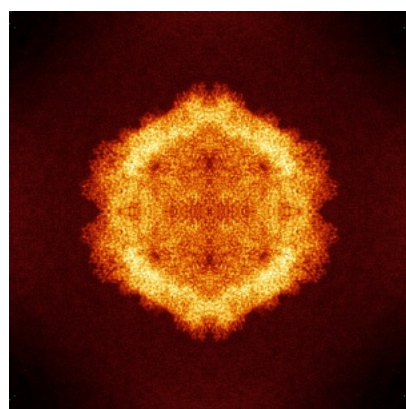


Z Index: 185

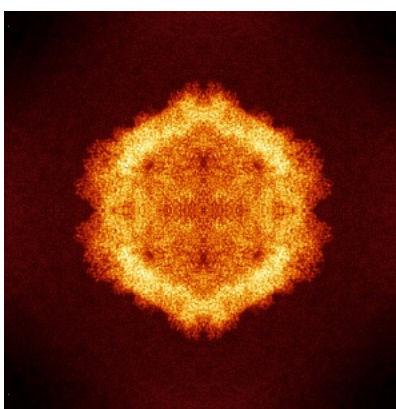
The images above show the largest variance slices of the map in three orthogonal directions.

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

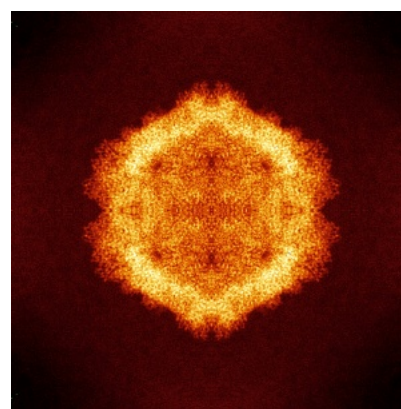
6.4.1 Primary map



X



Y

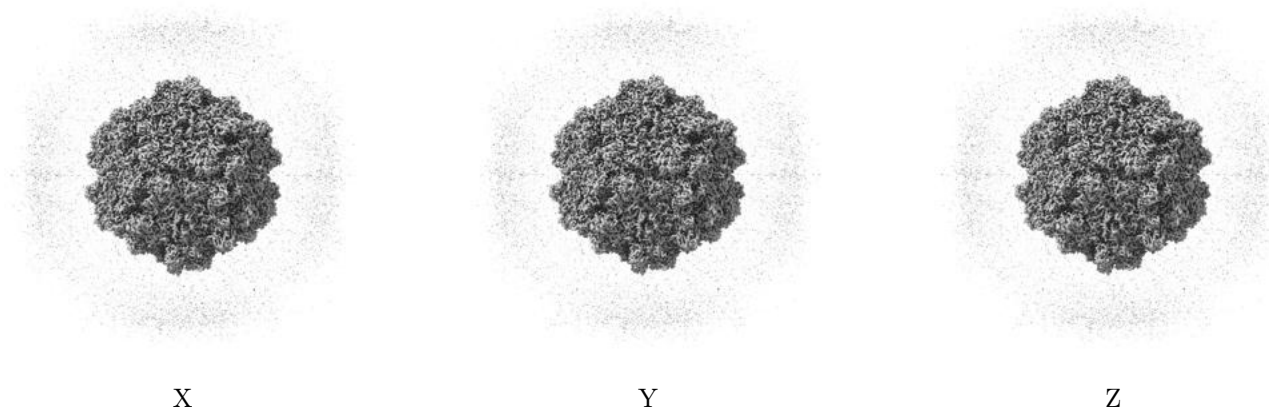


Z

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



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.

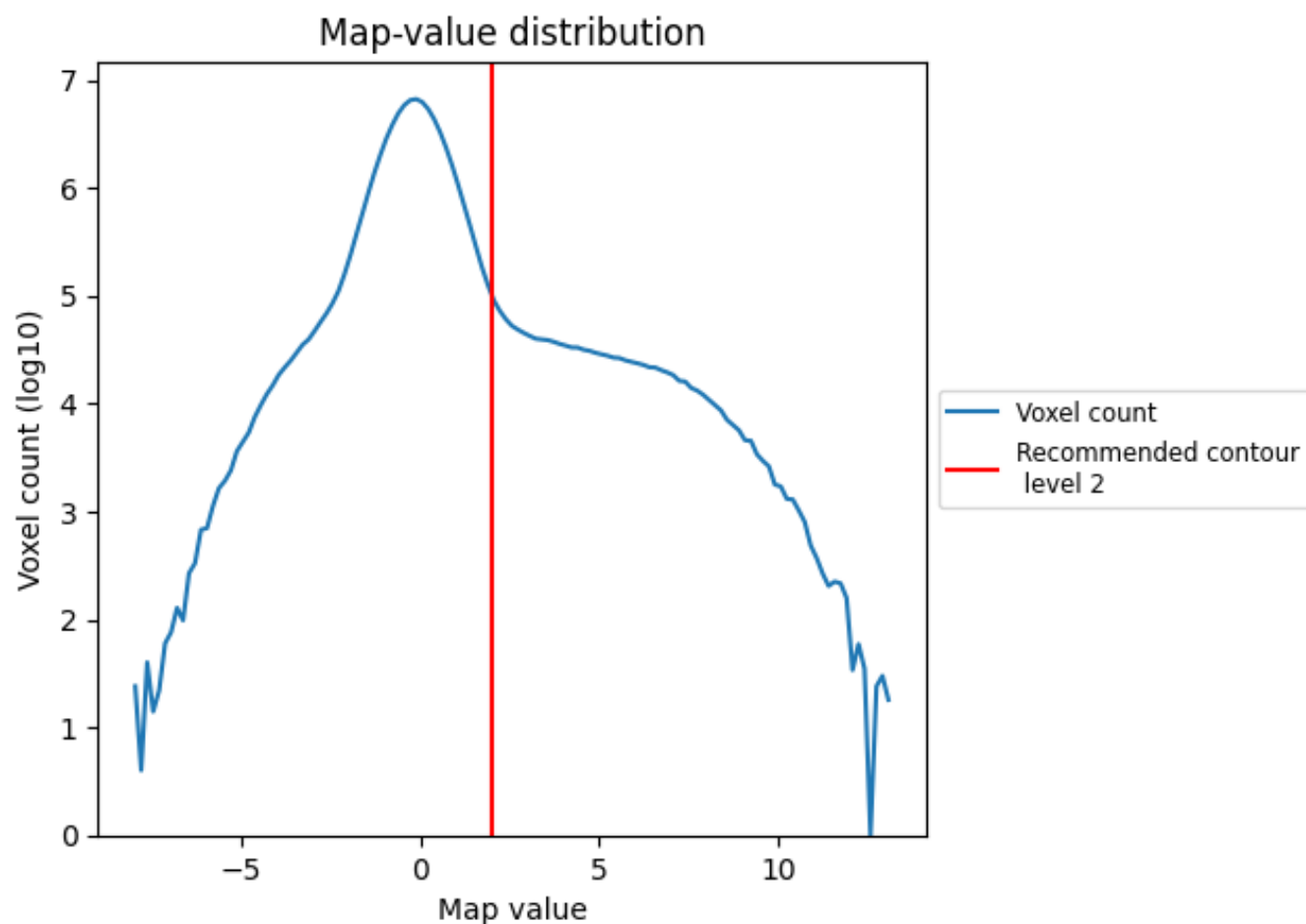
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

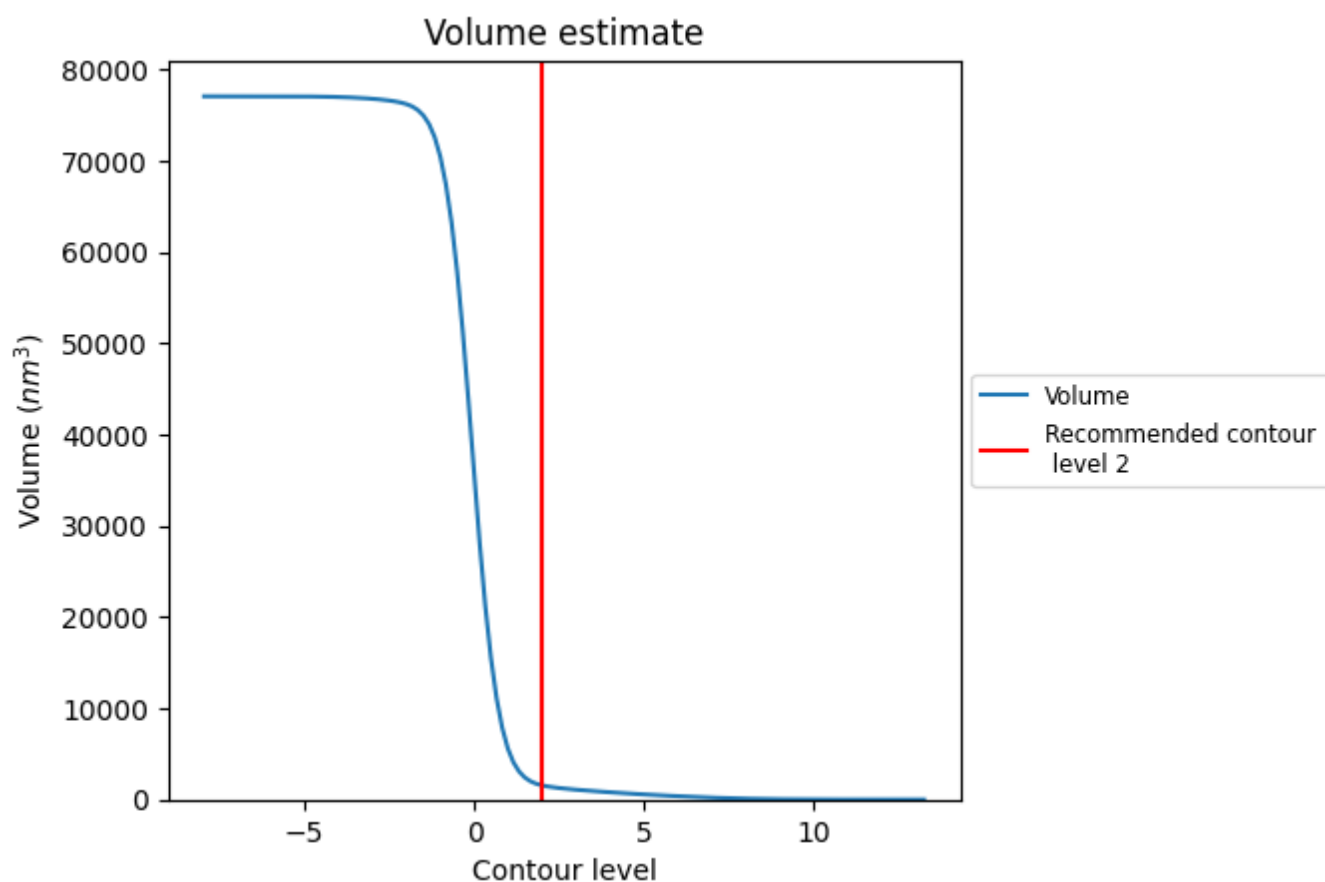
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

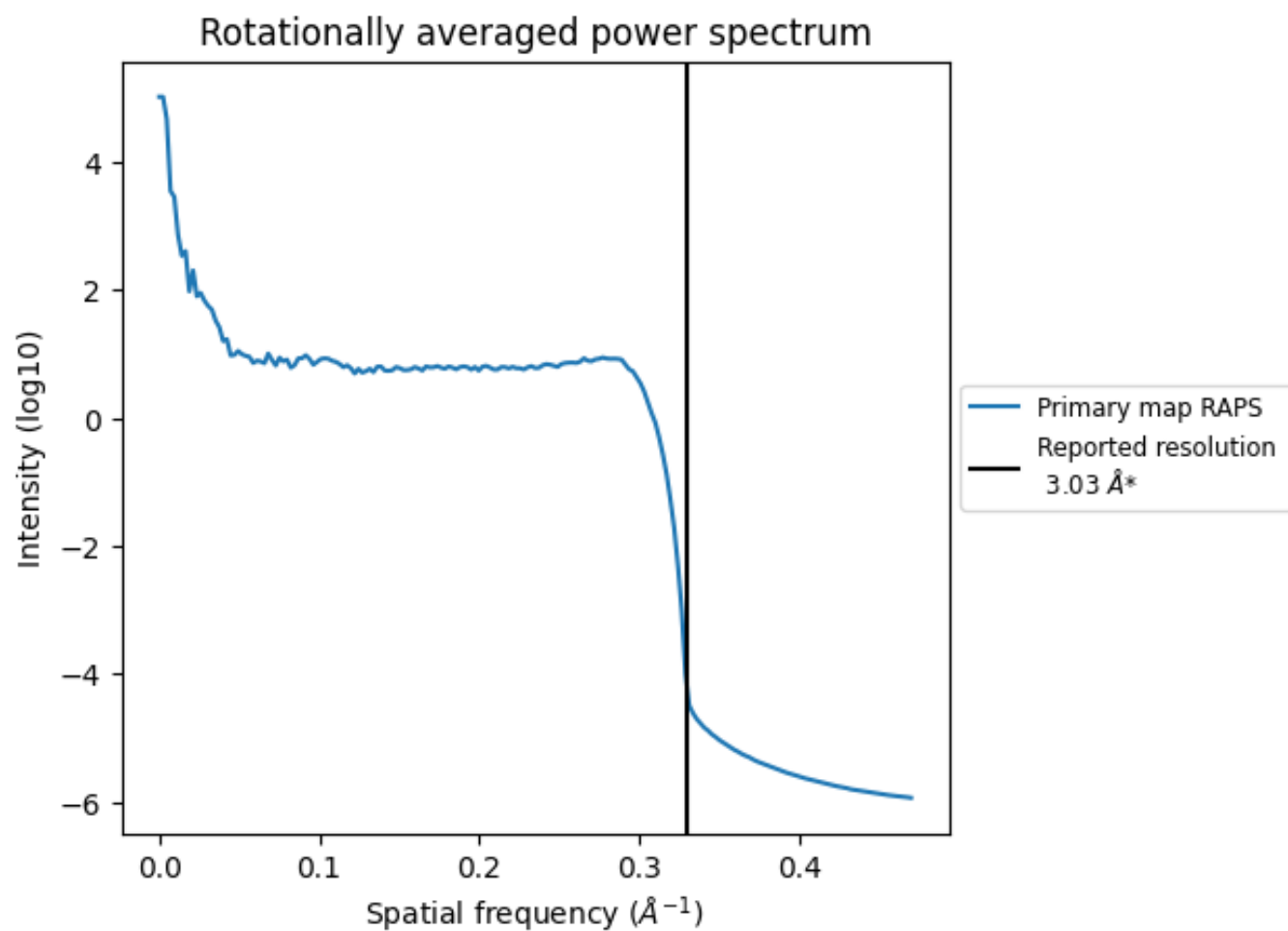
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1562 nm³; this corresponds to an approximate mass of 1411 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.330 Å⁻¹

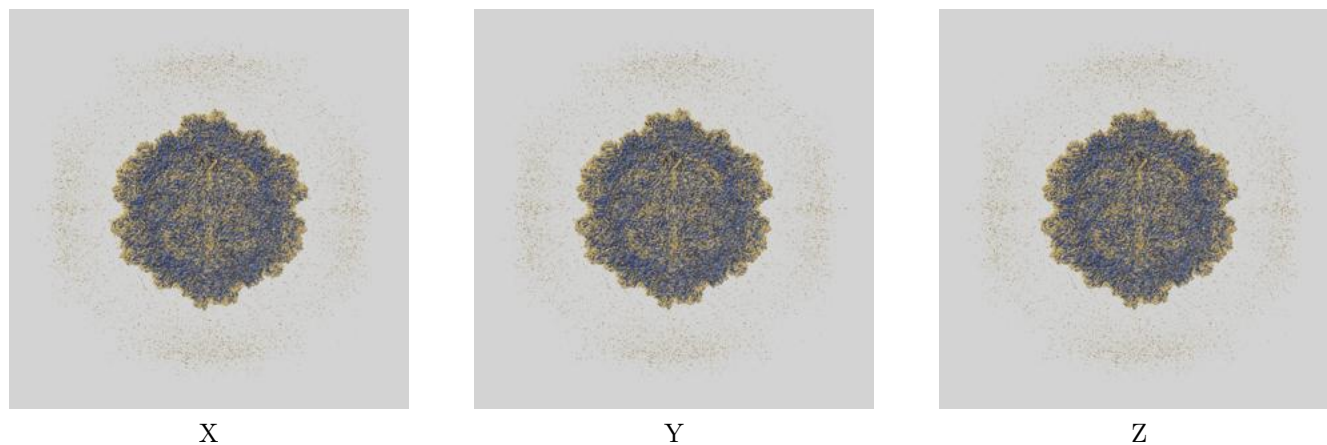
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

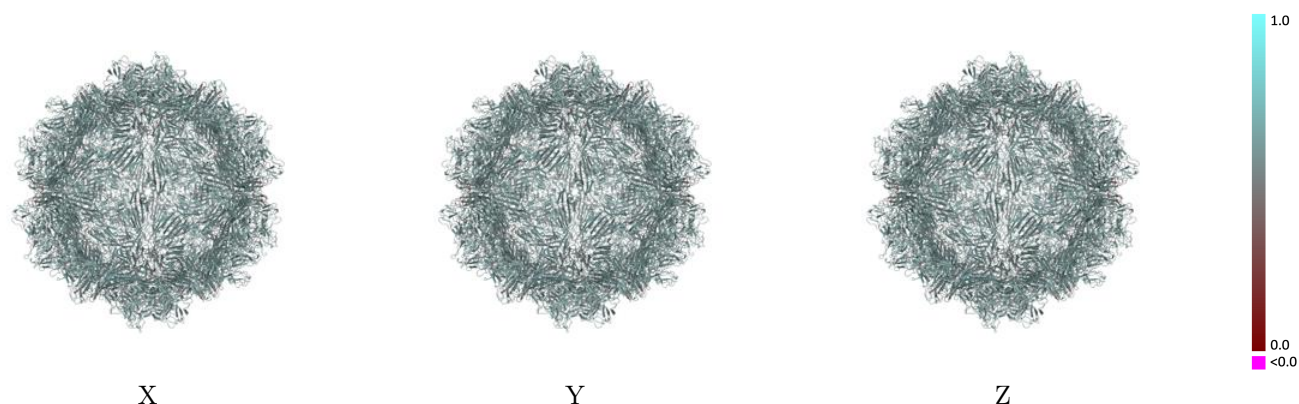
This section contains information regarding the fit between EMDB map EMD-21656 and PDB model 6WFT. Per-residue inclusion information can be found in section [3](#) on page [13](#).

9.1 Map-model overlay [i](#)



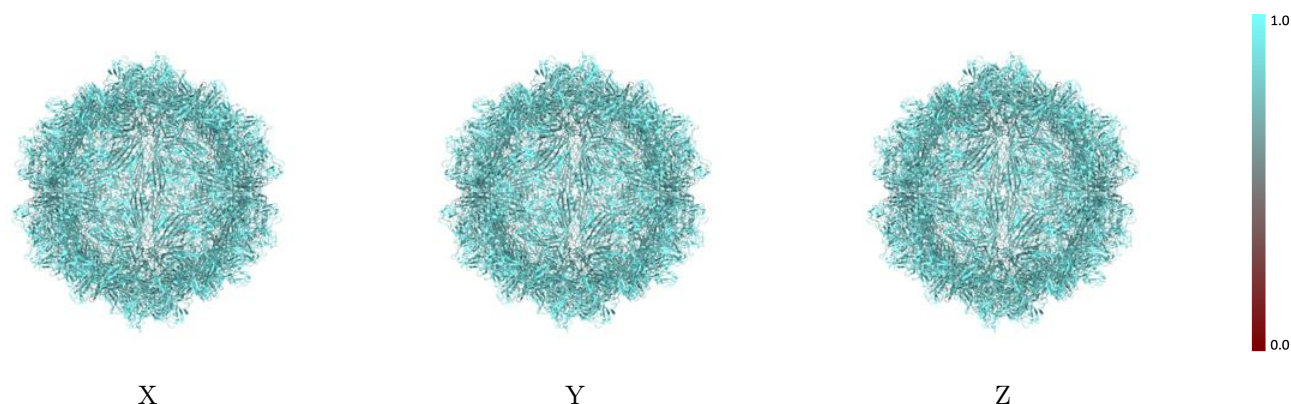
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



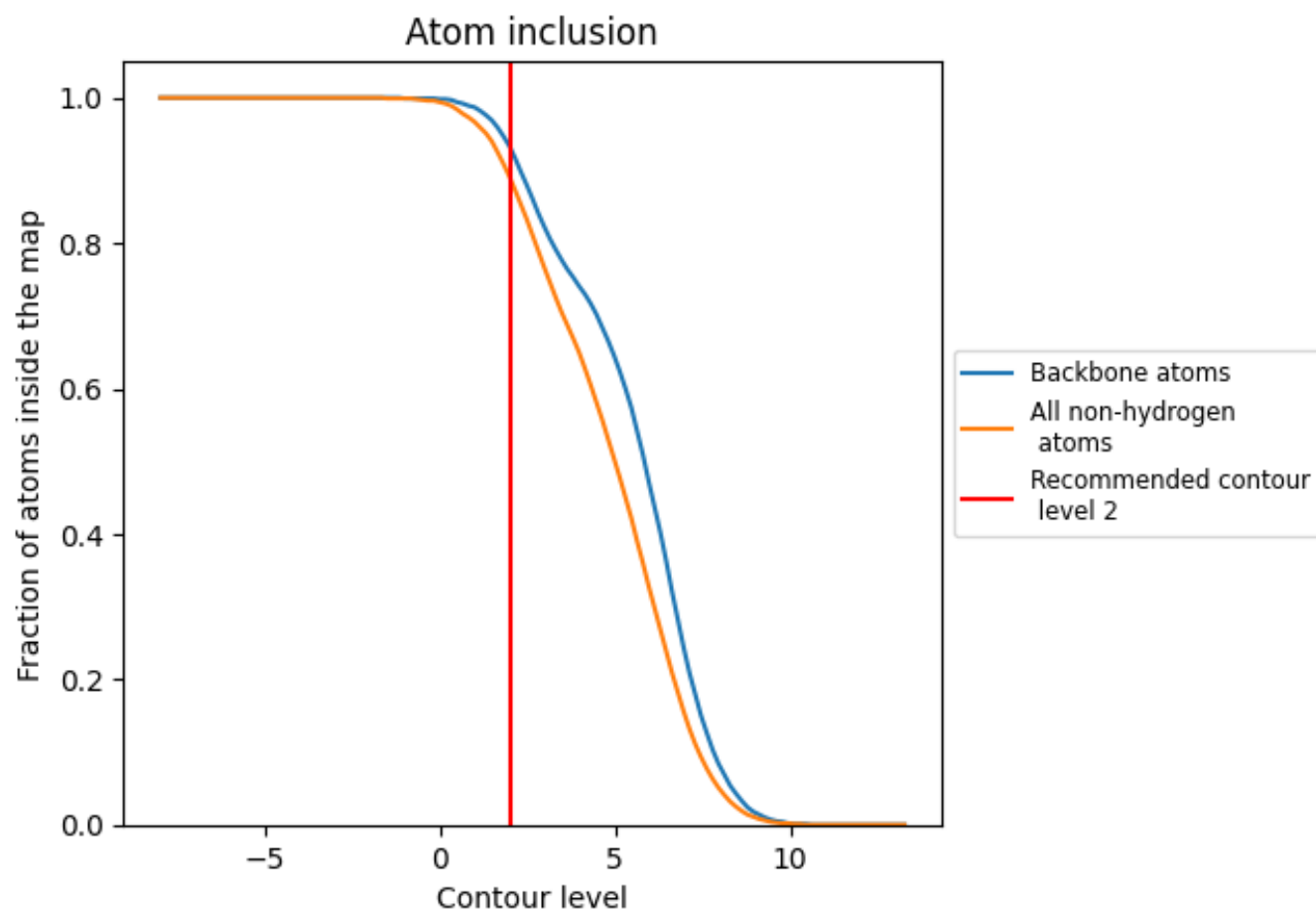
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 93% of all backbone atoms, 89% 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	 0.8910	 0.5750
1	 0.8910	 0.5750
2	 0.8910	 0.5740
3	 0.8900	 0.5750
4	 0.8910	 0.5760
5	 0.8930	 0.5750
6	 0.8900	 0.5730
7	 0.8920	 0.5750
8	 0.8890	 0.5770
A	 0.8910	 0.5770
B	 0.8940	 0.5770
C	 0.8910	 0.5760
D	 0.8940	 0.5750
E	 0.8910	 0.5770
F	 0.8900	 0.5760
G	 0.8910	 0.5760
H	 0.8950	 0.5770
I	 0.8910	 0.5760
J	 0.8950	 0.5760
K	 0.8900	 0.5760
L	 0.8930	 0.5770
M	 0.8900	 0.5750
N	 0.8950	 0.5770
O	 0.8910	 0.5770
P	 0.8950	 0.5760
Q	 0.8910	 0.5760
R	 0.8940	 0.5770
S	 0.8950	 0.5760
T	 0.8900	 0.5750
U	 0.8930	 0.5760
V	 0.8910	 0.5760
W	 0.8940	 0.5760
X	 0.8890	 0.5760
Y	 0.8950	 0.5770
Z	 0.8910	 0.5770



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Chain	Atom inclusion	Q-score
a	 0.8900	 0.5760
b	 0.8900	 0.5770
c	 0.8880	 0.5770
d	 0.8900	 0.5760
e	 0.8890	 0.5770
f	 0.8880	 0.5760
g	 0.8890	 0.5730
h	 0.8900	 0.5760
i	 0.8920	 0.5740
j	 0.8930	 0.5740
k	 0.8900	 0.5740
l	 0.8890	 0.5760
m	 0.8910	 0.5750
n	 0.8900	 0.5760
o	 0.8900	 0.5740
p	 0.8890	 0.5740
q	 0.8910	 0.5740
r	 0.8910	 0.5740
s	 0.8940	 0.5750
t	 0.8880	 0.5740
u	 0.8880	 0.5730
v	 0.8870	 0.5740
w	 0.8880	 0.5720
x	 0.8880	 0.5730
y	 0.8870	 0.5730
z	 0.8940	 0.5740