



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 03:43 AM UTC

PDB ID : 7L5U / pdb_00007l5u
EMDB ID : EMD-23190
Title : The full AAV7 capsid
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-12-22
Resolution : 3.16 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

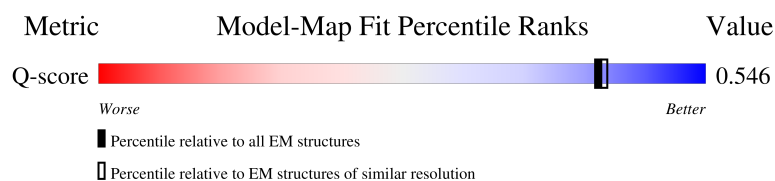
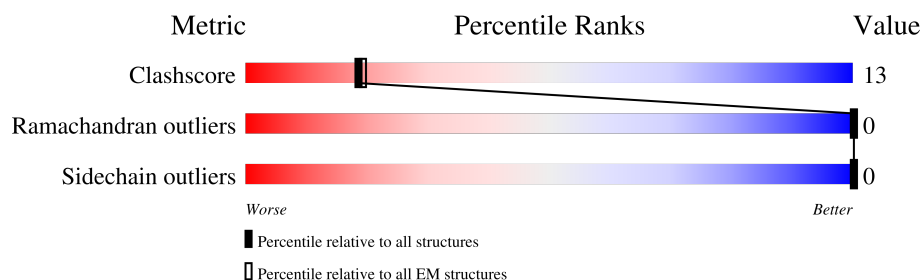
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.16 Å.

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



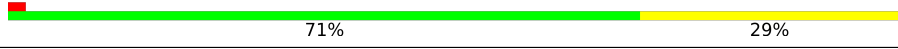
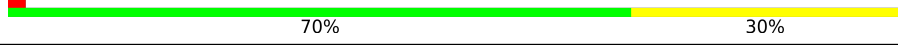
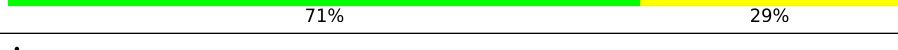
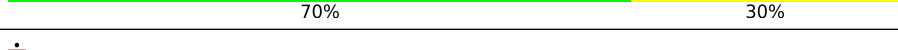
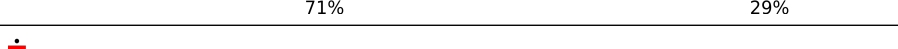
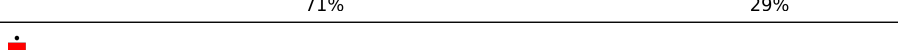
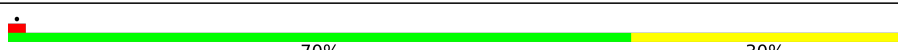
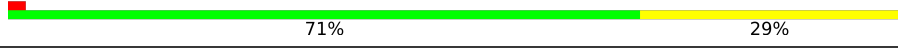
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14474 (2.66 - 3.66)

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	520	 71% 29%
1	2	520	 71% 29%
1	3	520	 70% 30%
1	4	520	 70% 30%

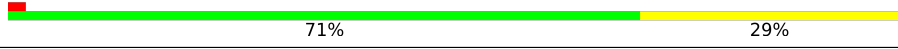
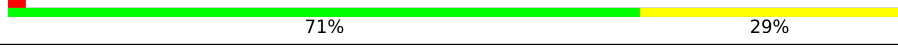
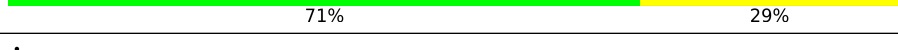
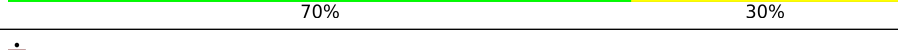
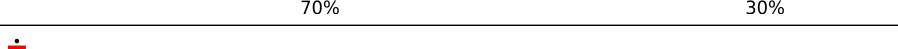
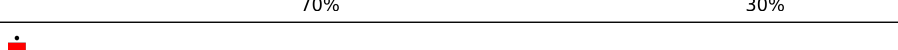
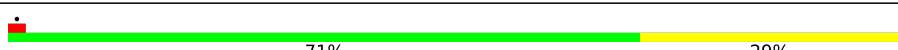
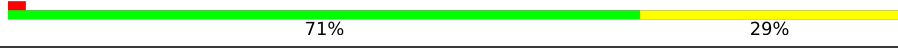
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Mol	Chain	Length	Quality of chain
1	5	520	
1	6	520	
1	7	520	
1	8	520	
1	A	520	
1	B	520	
1	C	520	
1	D	520	
1	E	520	
1	F	520	
1	G	520	
1	H	520	
1	I	520	
1	J	520	
1	K	520	
1	L	520	
1	M	520	
1	N	520	
1	O	520	
1	P	520	
1	Q	520	
1	R	520	
1	S	520	
1	T	520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

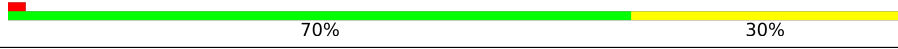
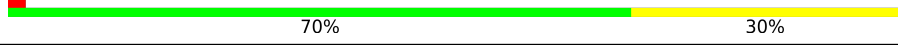
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Mol	Chain	Length	Quality of chain
1	V	520	
1	W	520	
1	X	520	
1	Y	520	
1	Z	520	
1	a	520	
1	b	520	
1	c	520	
1	d	520	
1	e	520	
1	f	520	
1	g	520	
1	h	520	
1	i	520	
1	j	520	
1	k	520	
1	l	520	
1	m	520	
1	n	520	
1	o	520	
1	p	520	
1	q	520	
1	r	520	
1	s	520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

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Mol	Chain	Length	Quality of chain
1	u	520	 70%30%
1	v	520	 70%30%
1	w	520	 70%30%
1	x	520	 70%30%
1	y	520	 71%29%
1	z	520	 70%30%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 250020 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	B	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	C	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	D	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	E	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	F	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	G	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	H	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	I	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	J	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	K	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	L	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	M	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	N	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	O	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	P	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		
1	Q	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	S	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	T	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	U	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	V	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	W	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	X	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	Y	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	Z	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	a	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	b	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	c	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	d	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	e	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	f	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	g	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	h	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	i	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	j	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	k	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	l	520	Total 4145	C 2624	N 719	O 789	S 13	1	0

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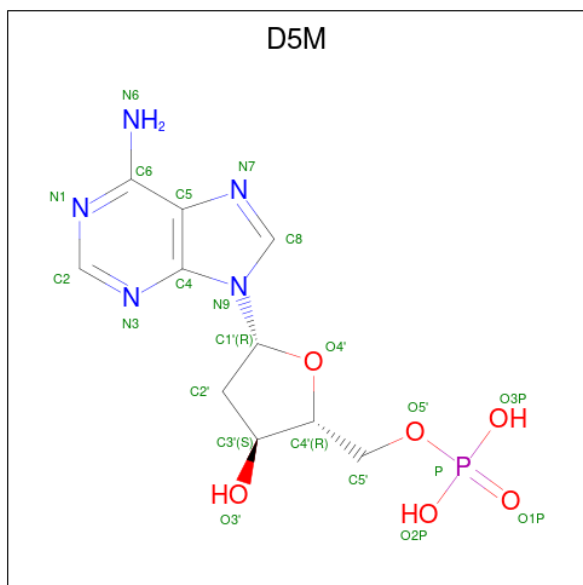
Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	n	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	o	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	p	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	q	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	r	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	s	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	t	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	u	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	v	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	w	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	x	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	y	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	z	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	1	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	2	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	3	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	4	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	5	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	6	520	Total 4145	C 2624	N 719	O 789	S 13	1	0
1	7	520	Total 4145	C 2624	N 719	O 789	S 13	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	520	Total	C	N	O	S	1	0
			4145	2624	719	789	13		

- 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
			22	10	5	6	1	
2	B	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	C	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	D	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	E	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	F	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	G	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	H	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	I	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	J	1	Total	C	N	O	P	0
			22	10	5	6	1	

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Mol	Chain	Residues	Atoms					AltConf
2	K	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	L	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	M	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	N	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	O	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	P	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	Q	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	R	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	S	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	T	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	U	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	V	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	W	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	X	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	Y	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	Z	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	a	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	b	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	c	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	d	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	e	1	Total	C	N	O	P	0
			22	10	5	6	1	

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Mol	Chain	Residues	Atoms					AltConf
2	f	1	Total 22	C 10	N 5	O 6	P 1	0
2	g	1	Total 22	C 10	N 5	O 6	P 1	0
2	h	1	Total 22	C 10	N 5	O 6	P 1	0
2	i	1	Total 22	C 10	N 5	O 6	P 1	0
2	j	1	Total 22	C 10	N 5	O 6	P 1	0
2	k	1	Total 22	C 10	N 5	O 6	P 1	0
2	l	1	Total 22	C 10	N 5	O 6	P 1	0
2	m	1	Total 22	C 10	N 5	O 6	P 1	0
2	n	1	Total 22	C 10	N 5	O 6	P 1	0
2	o	1	Total 22	C 10	N 5	O 6	P 1	0
2	p	1	Total 22	C 10	N 5	O 6	P 1	0
2	q	1	Total 22	C 10	N 5	O 6	P 1	0
2	r	1	Total 22	C 10	N 5	O 6	P 1	0
2	s	1	Total 22	C 10	N 5	O 6	P 1	0
2	t	1	Total 22	C 10	N 5	O 6	P 1	0
2	u	1	Total 22	C 10	N 5	O 6	P 1	0
2	v	1	Total 22	C 10	N 5	O 6	P 1	0
2	w	1	Total 22	C 10	N 5	O 6	P 1	0
2	x	1	Total 22	C 10	N 5	O 6	P 1	0
2	y	1	Total 22	C 10	N 5	O 6	P 1	0
2	z	1	Total 22	C 10	N 5	O 6	P 1	0

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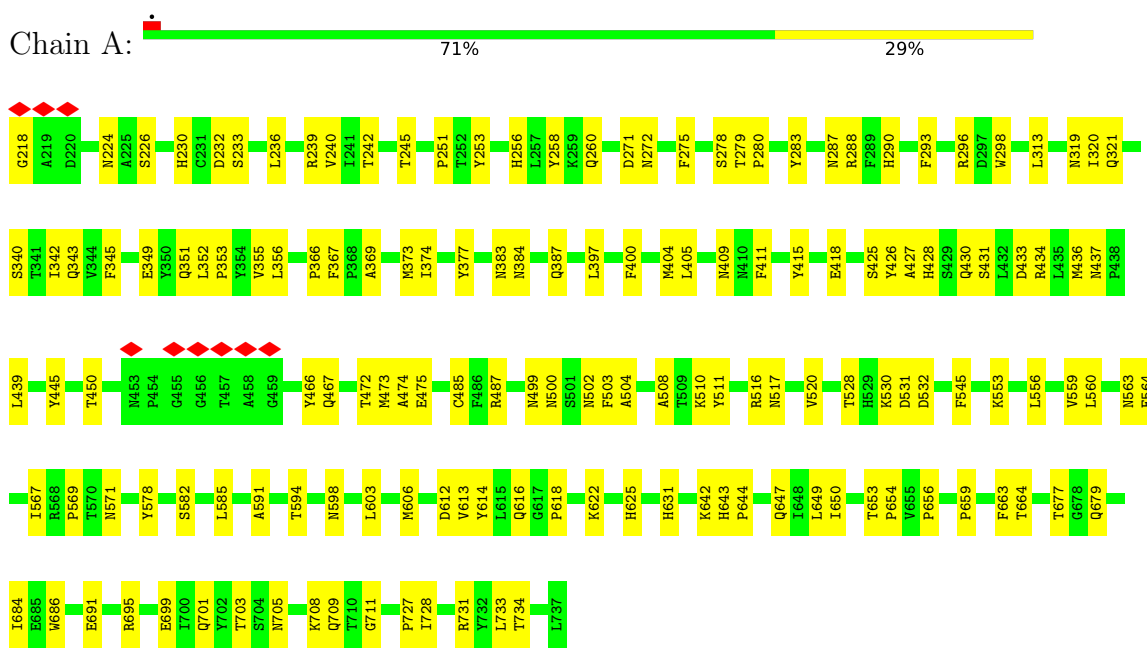
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Mol	Chain	Residues	Atoms					AltConf
2	1	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	2	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	3	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	4	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	5	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	6	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	7	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	8	1	Total	C	N	O	P	0
			22	10	5	6	1	

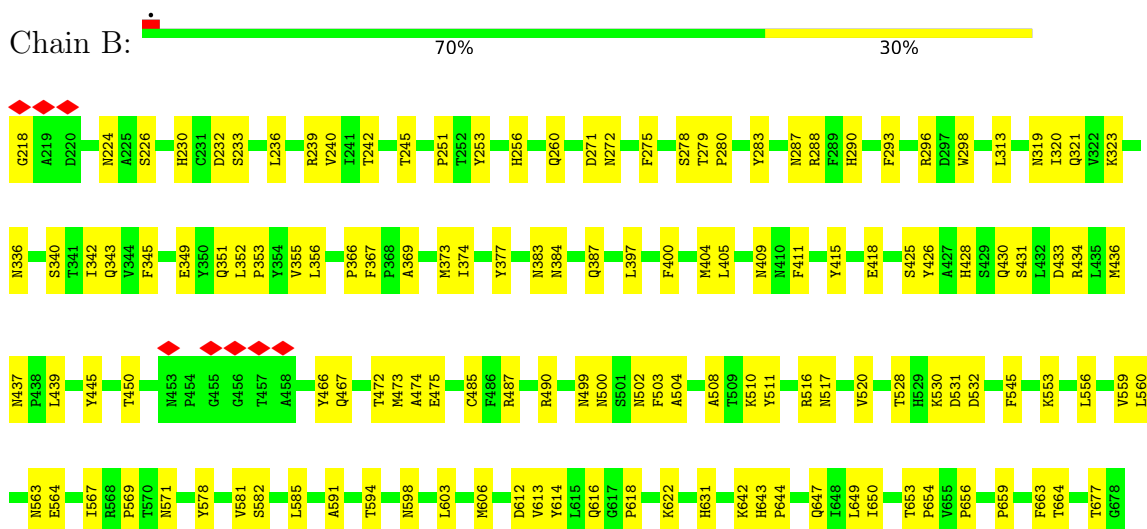
3 Residue-property plots

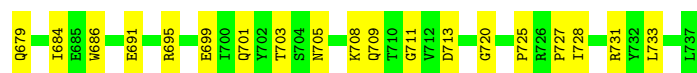
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Capsid protein

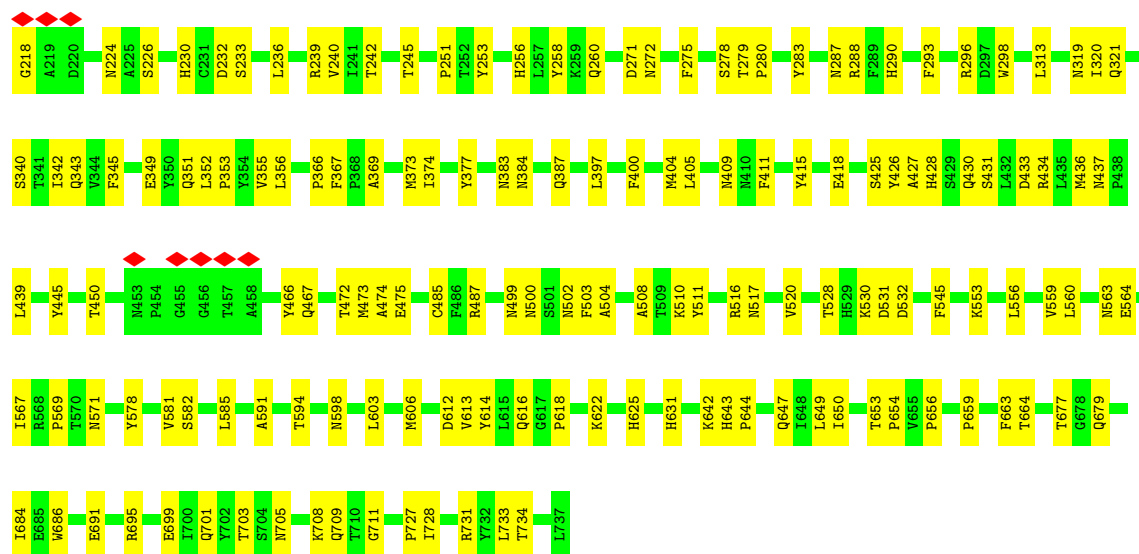


• Molecule 1: Capsid protein

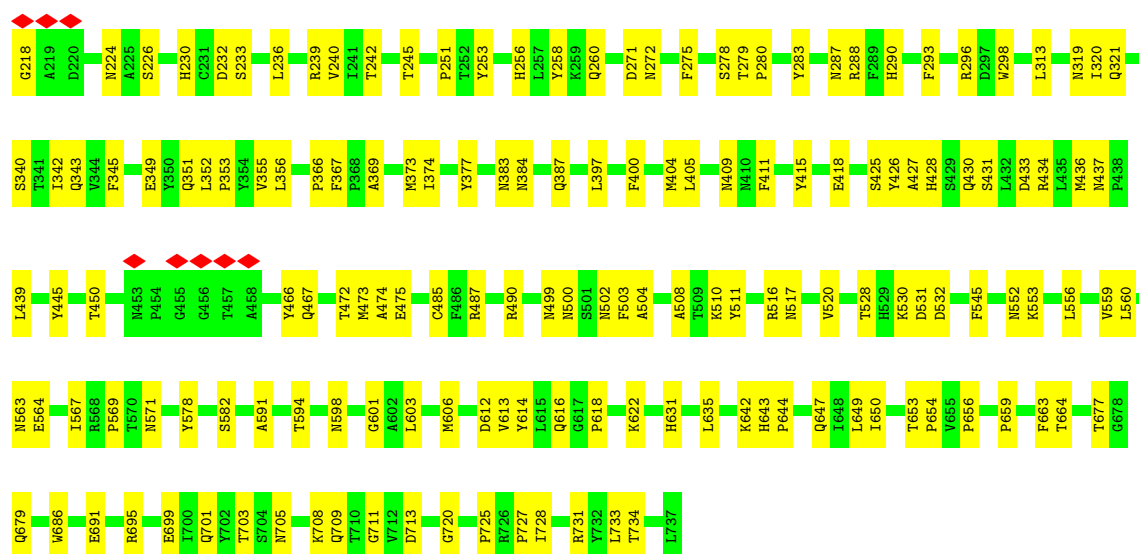




• Molecule 1: Capsid protein

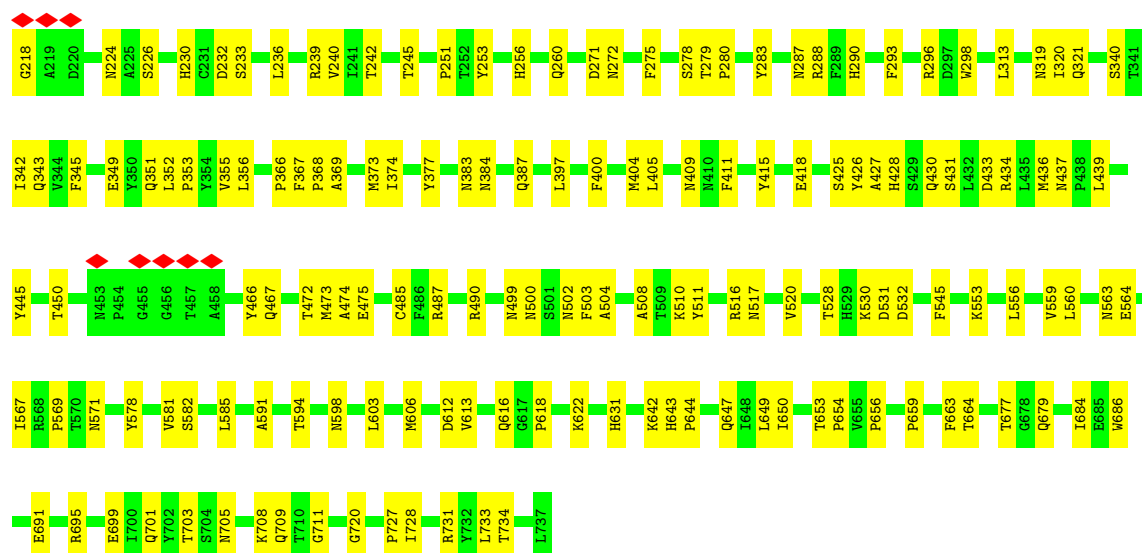


• Molecule 1: Capsid protein

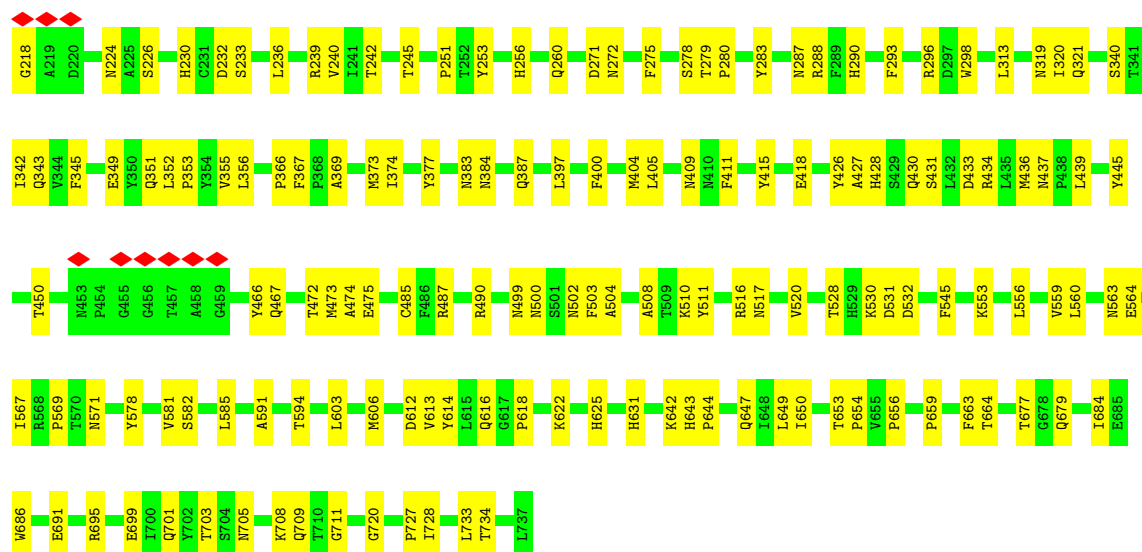


• Molecule 1: Capsid protein

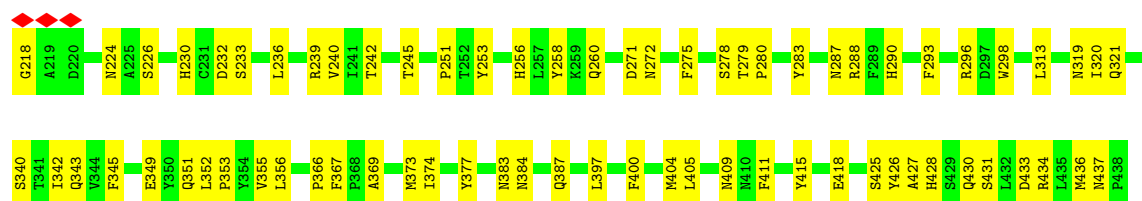




• Molecule 1: Capsid protein

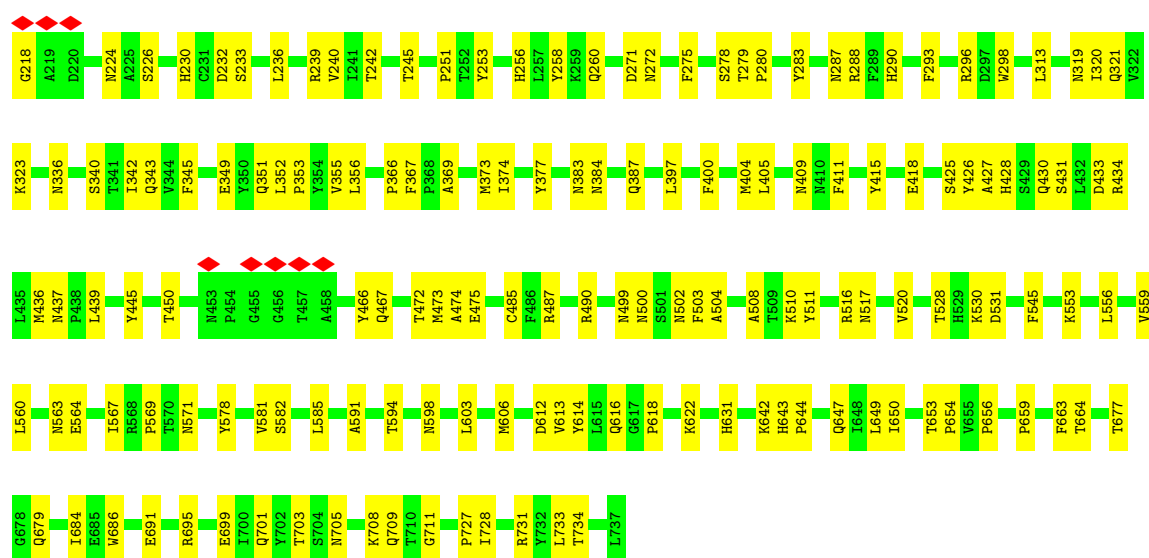


• Molecule 1: Capsid protein

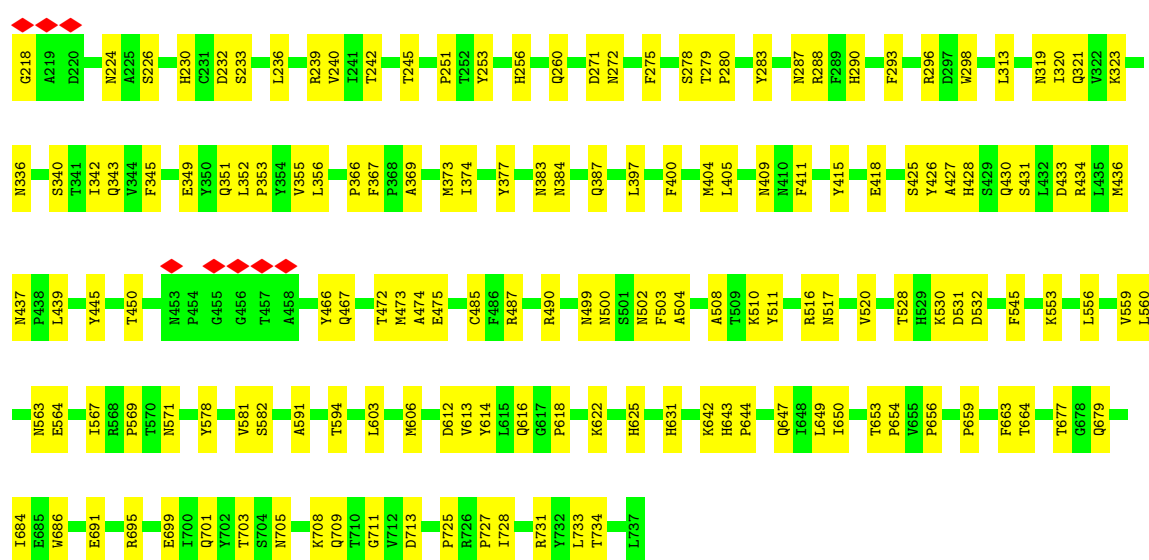




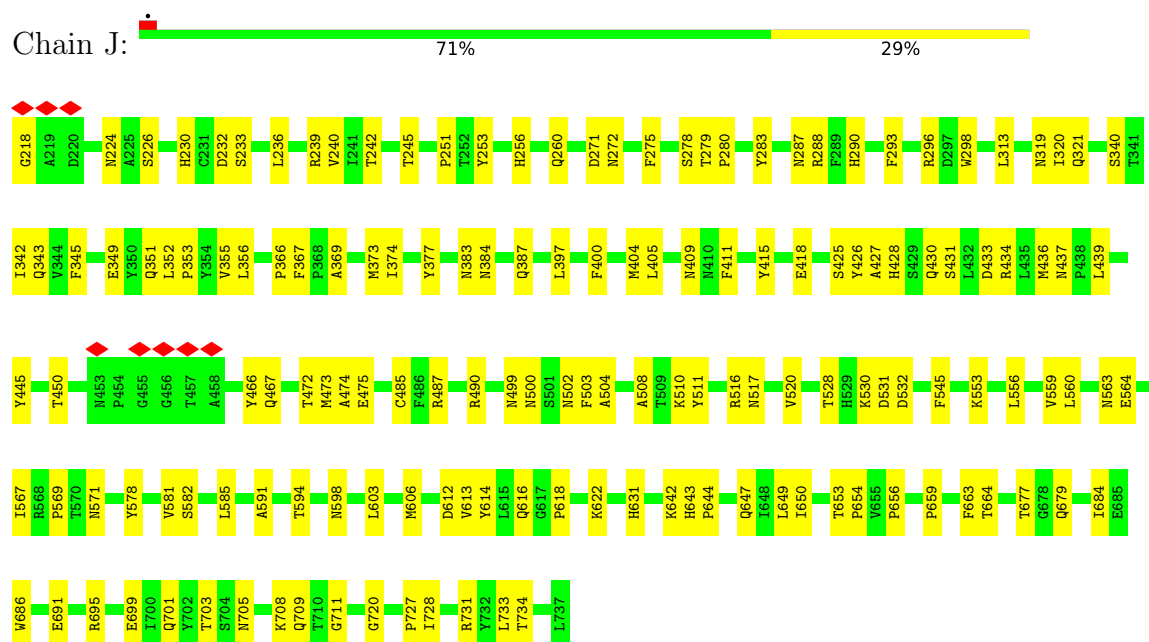
• Molecule 1: Capsid protein



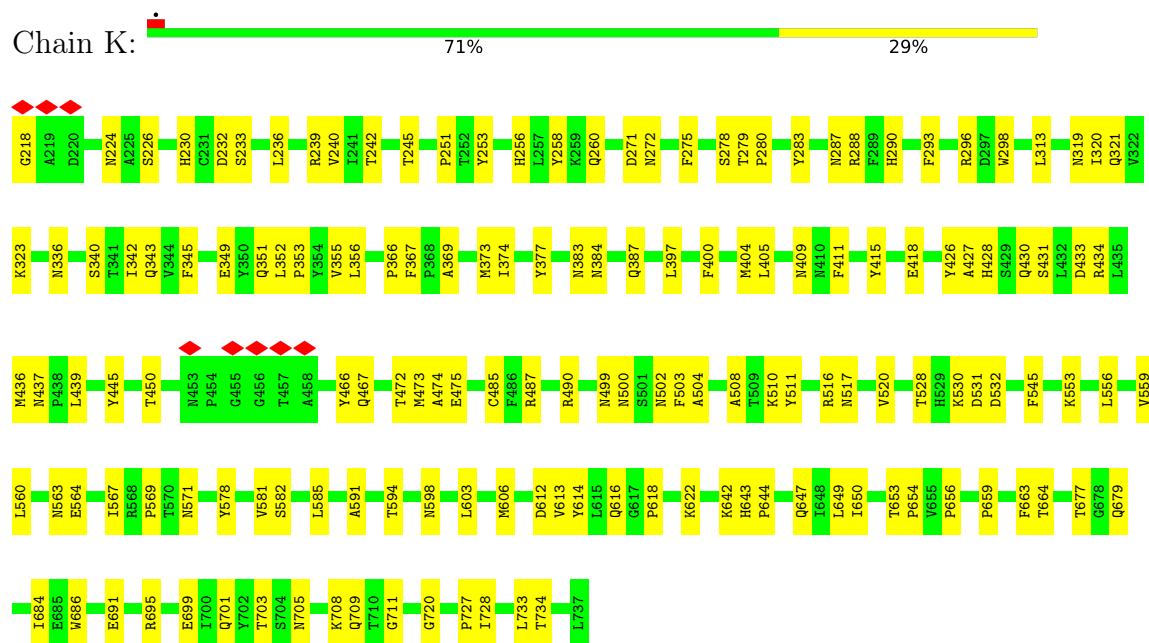
• Molecule 1: Capsid protein



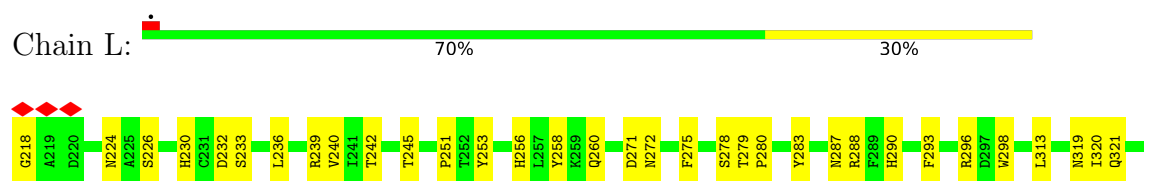
- Molecule 1: Capsid protein

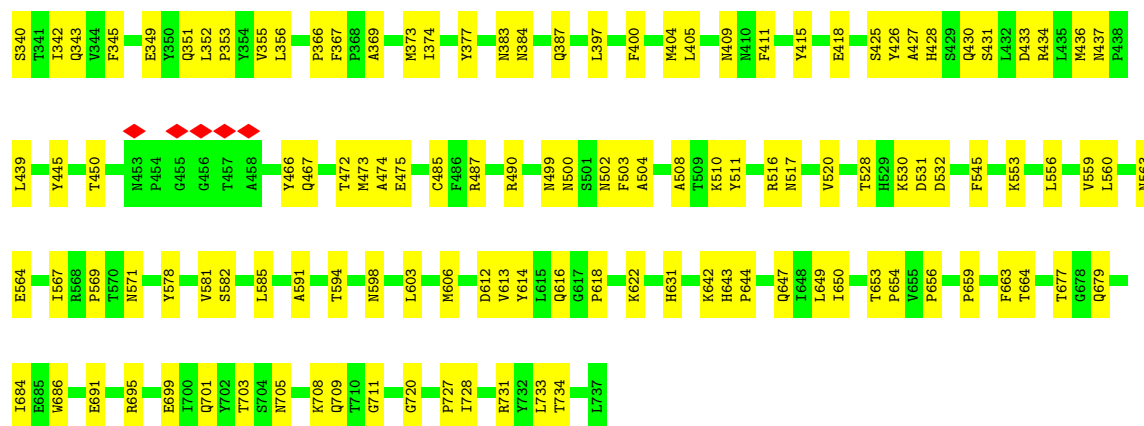


- Molecule 1: Capsid protein

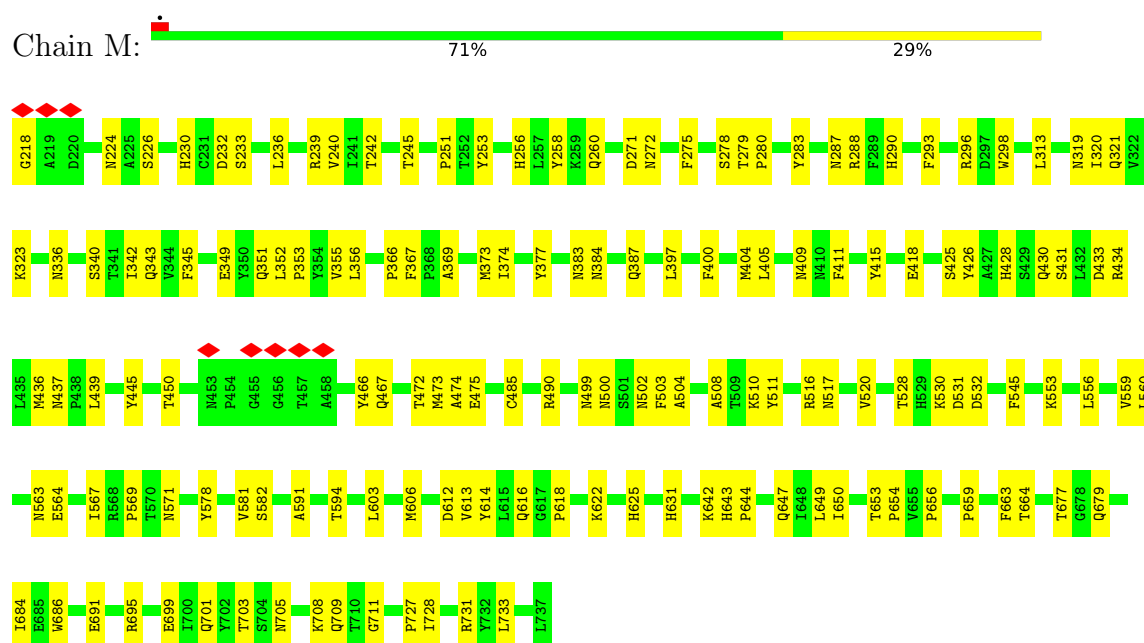


- Molecule 1: Capsid protein

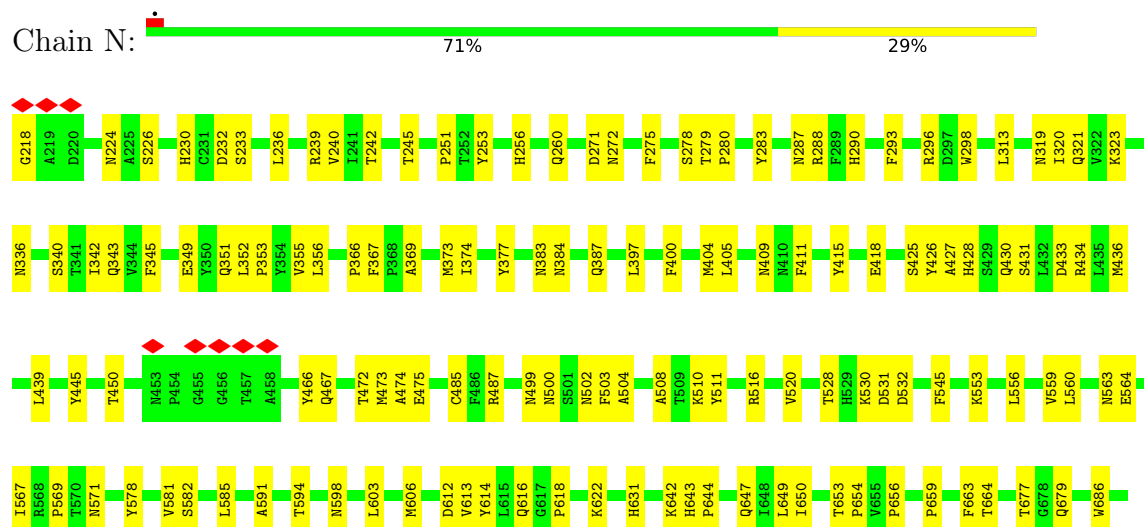




• Molecule 1: Capsid protein

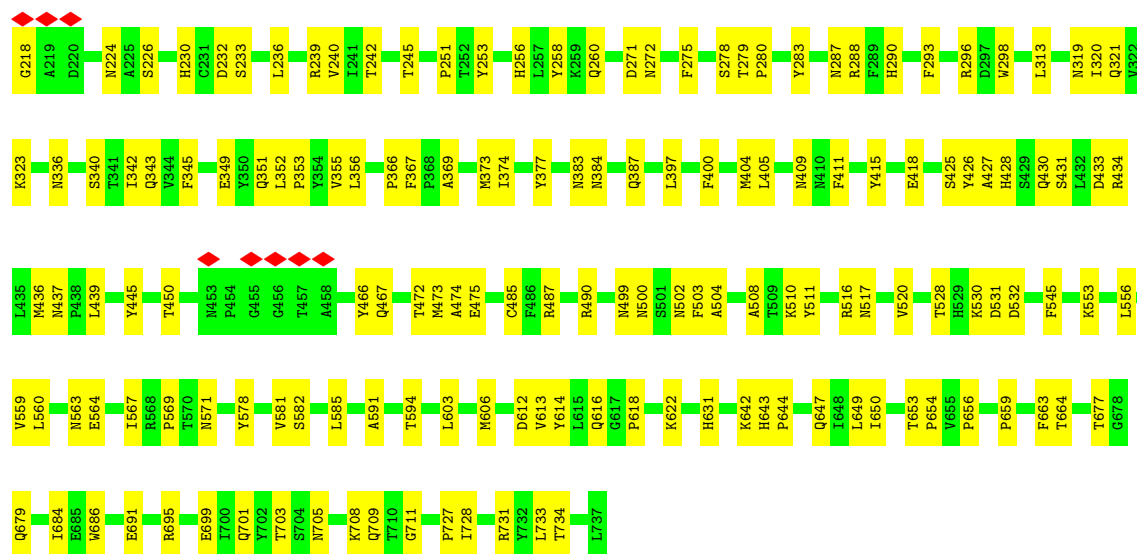


• Molecule 1: Capsid protein

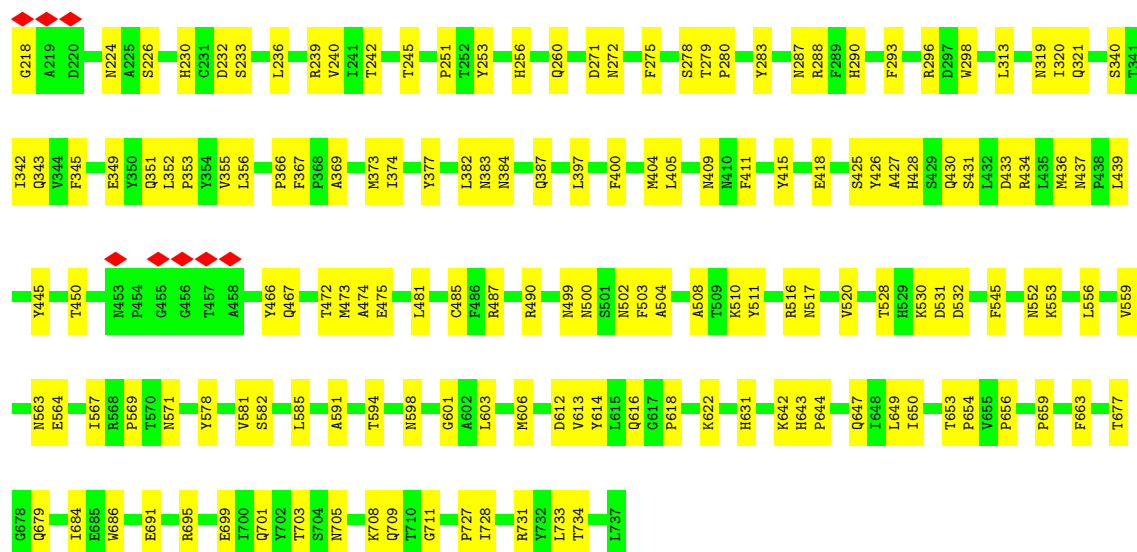




• Molecule 1: Capsid protein

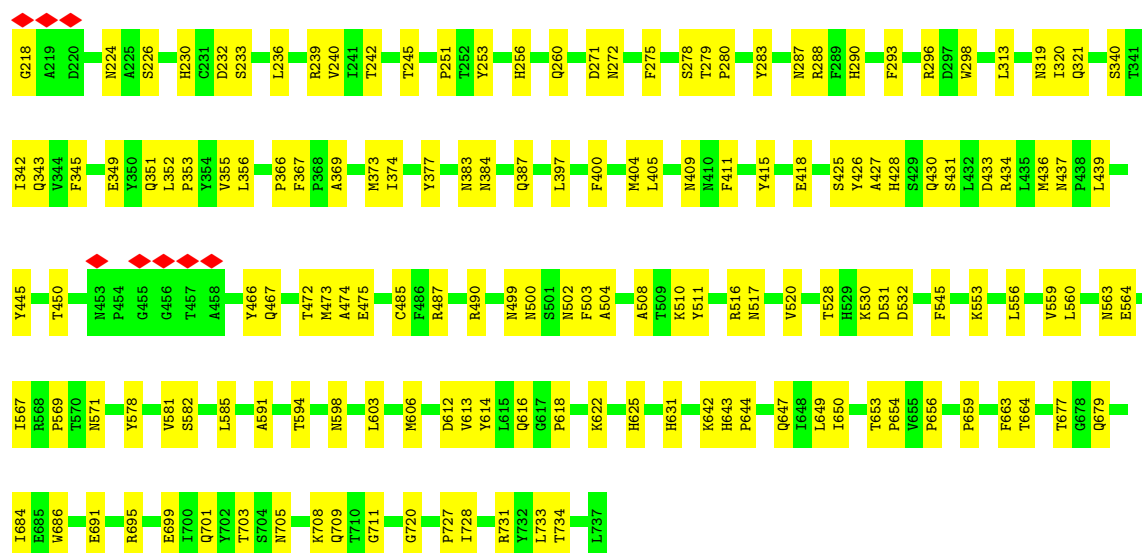


• Molecule 1: Capsid protein

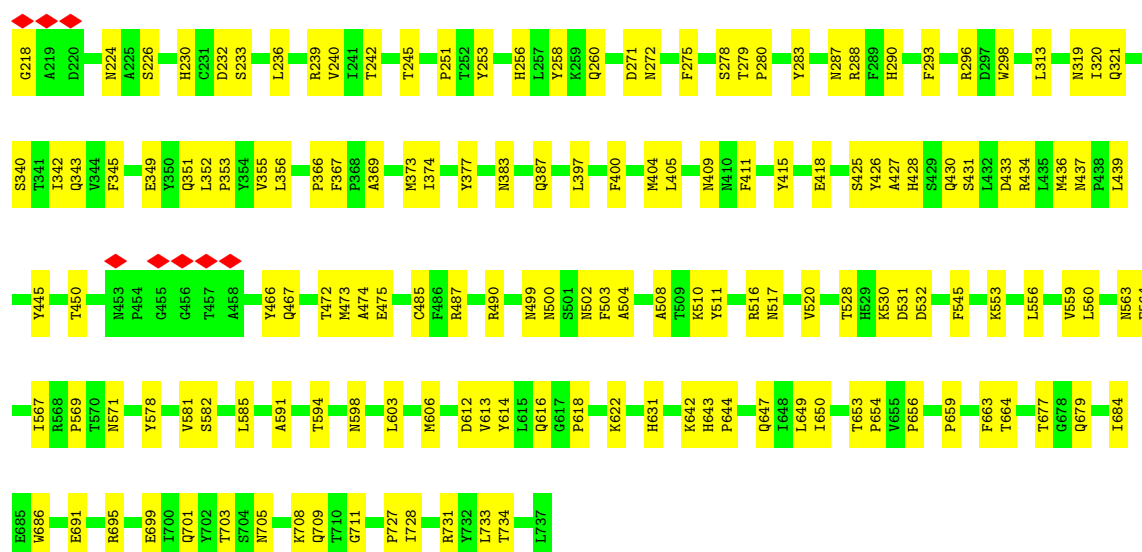


• Molecule 1: Capsid protein

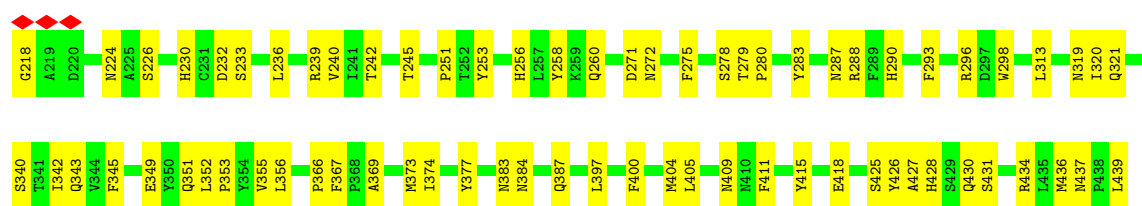




• Molecule 1: Capsid protein

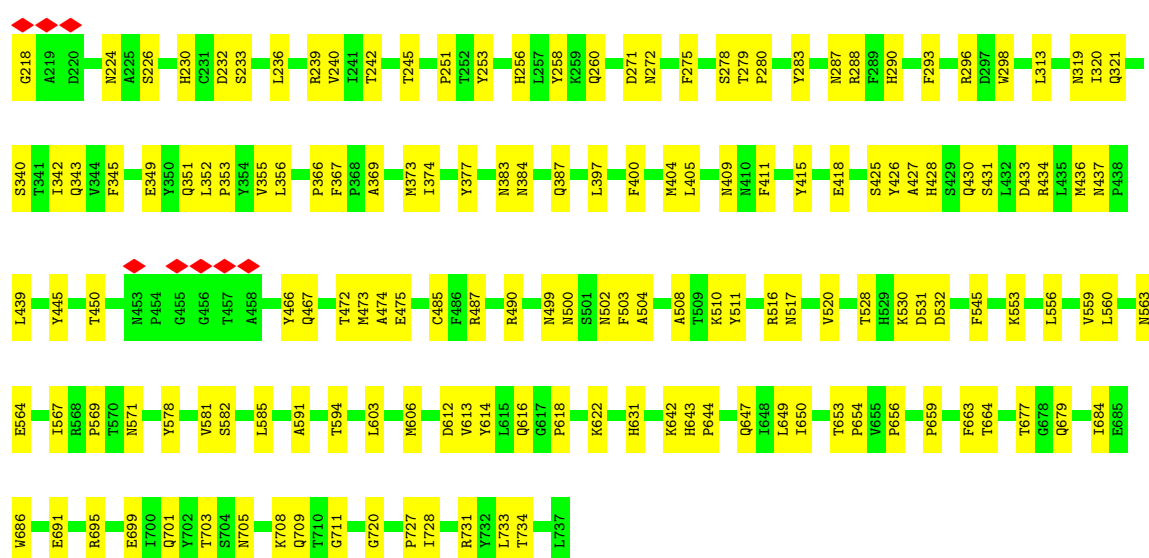


• Molecule 1: Capsid protein

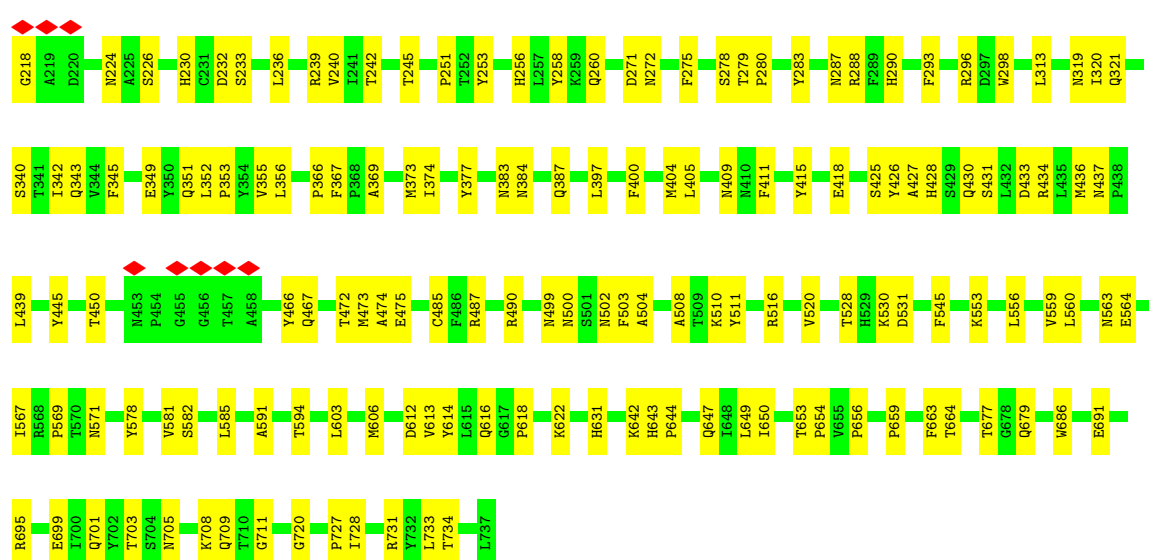




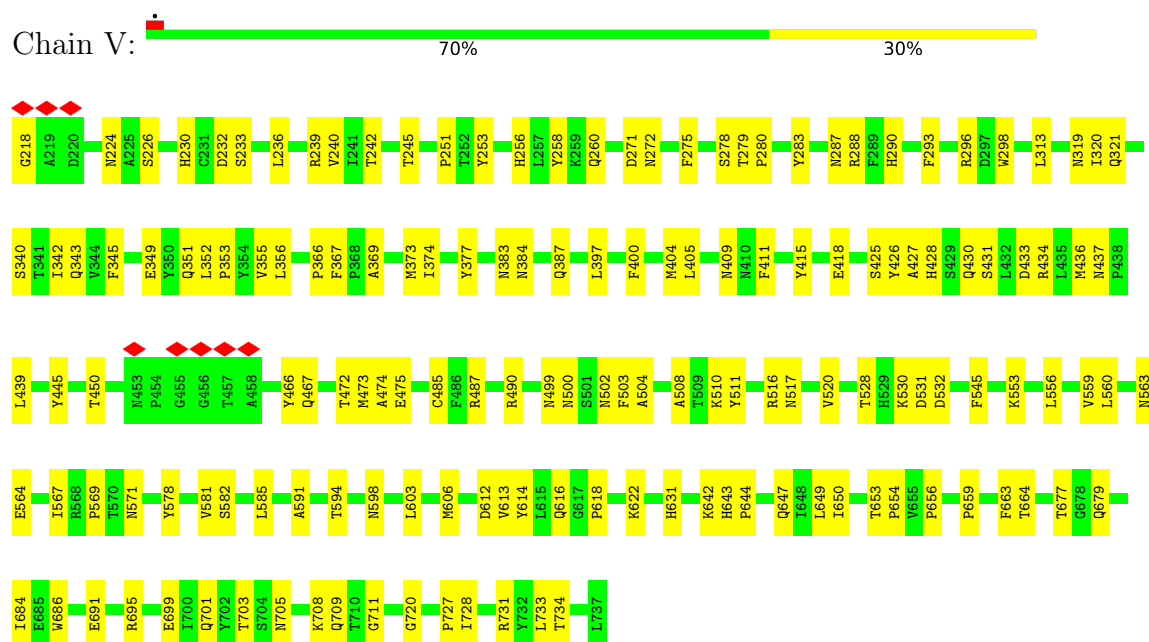
• Molecule 1: Capsid protein



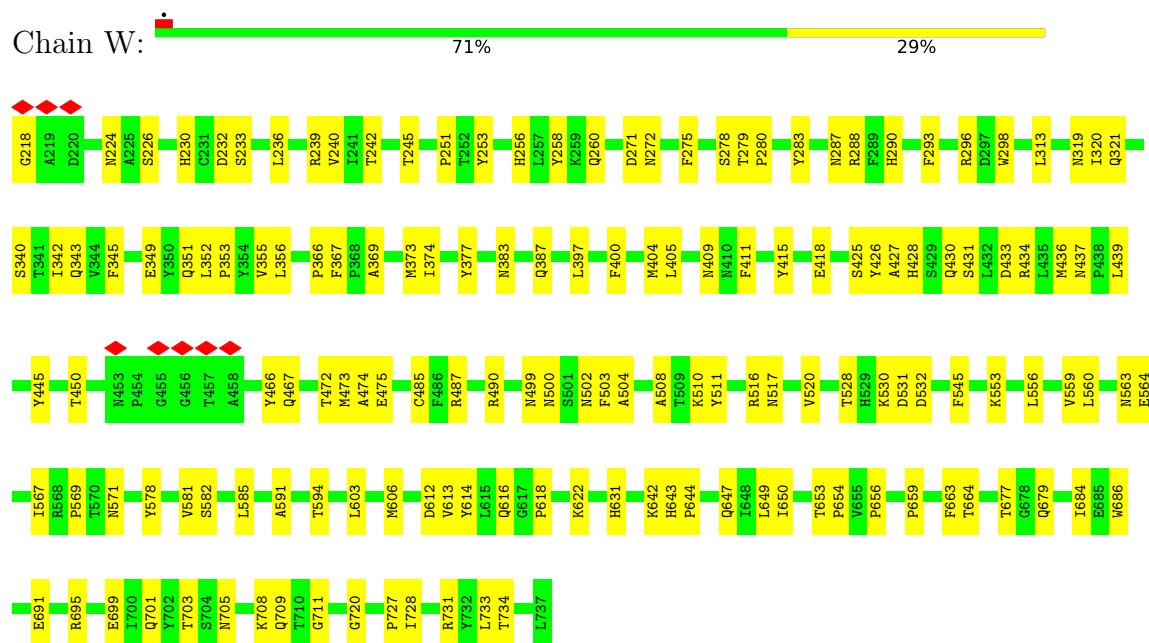
• Molecule 1: Capsid protein



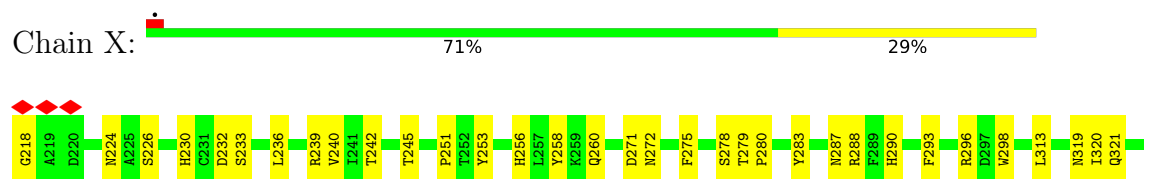
- Molecule 1: Capsid protein

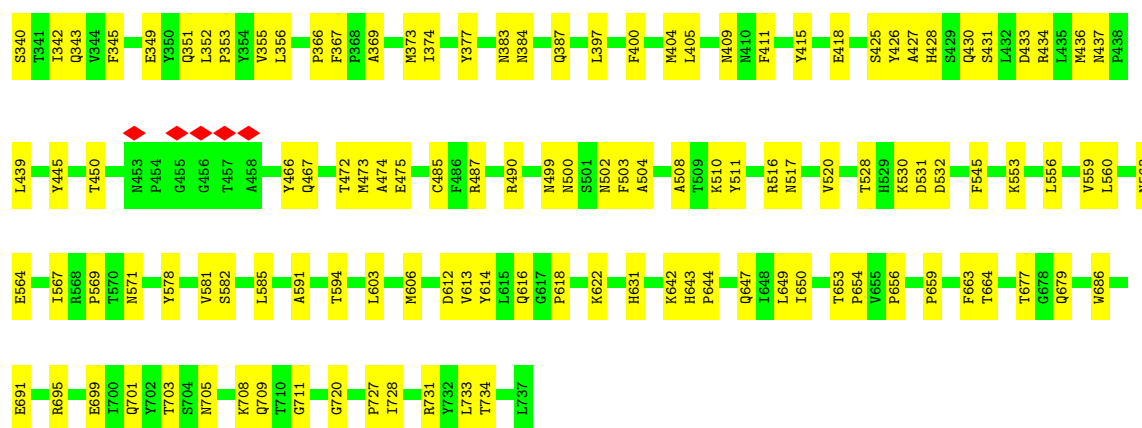


- Molecule 1: Capsid protein

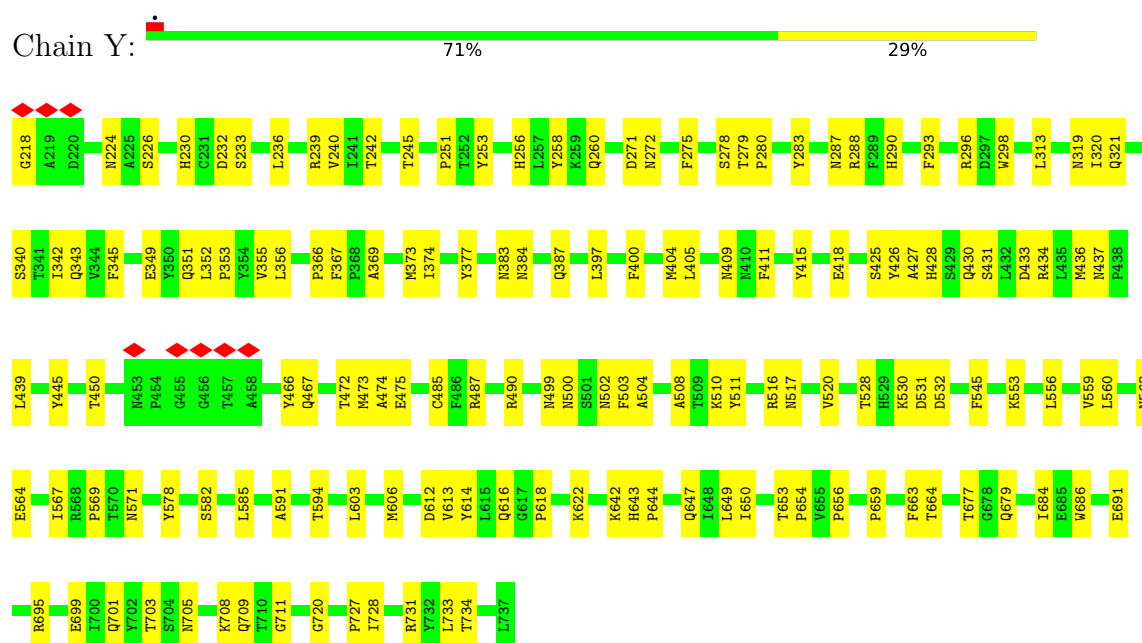


- Molecule 1: Capsid protein

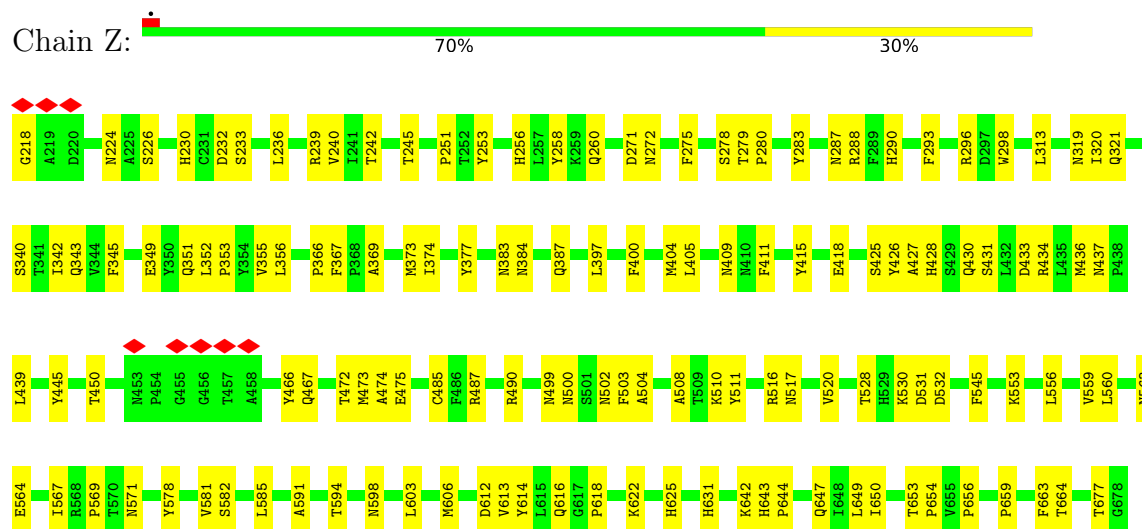




• Molecule 1: Capsid protein

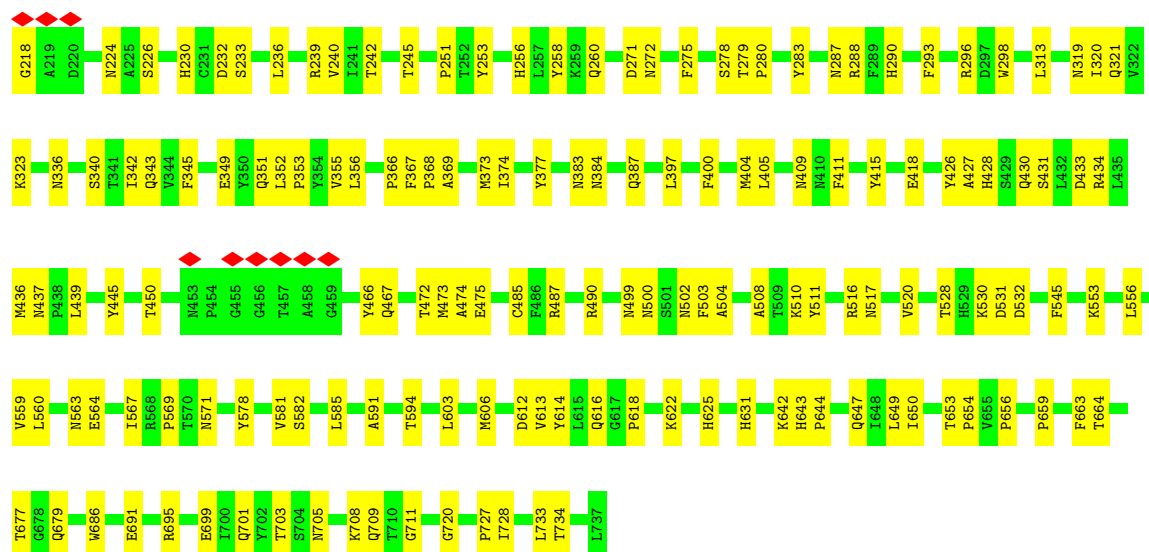


• Molecule 1: Capsid protein

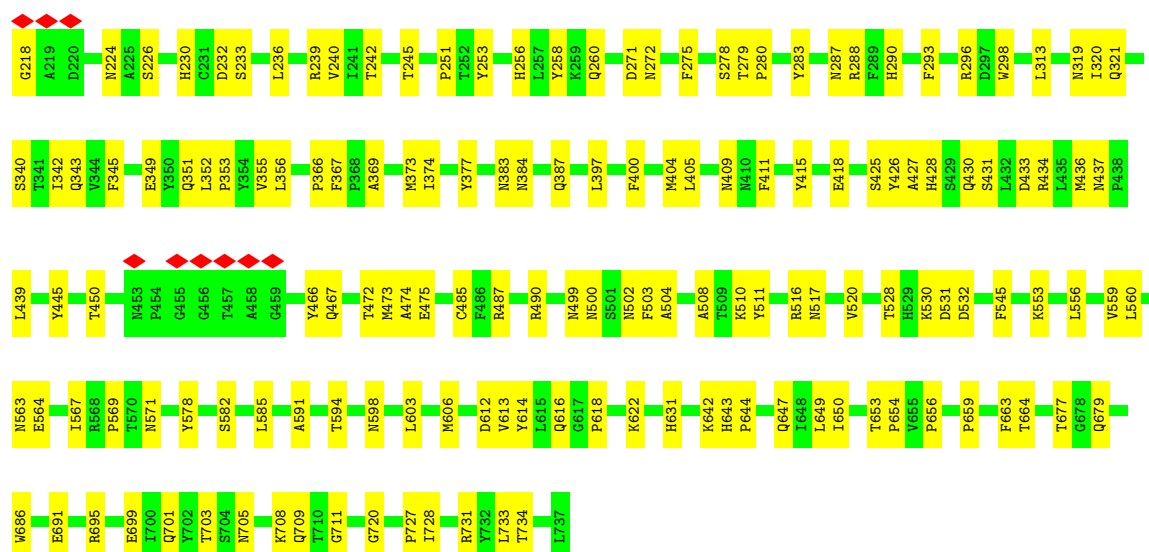




• Molecule 1: Capsid protein

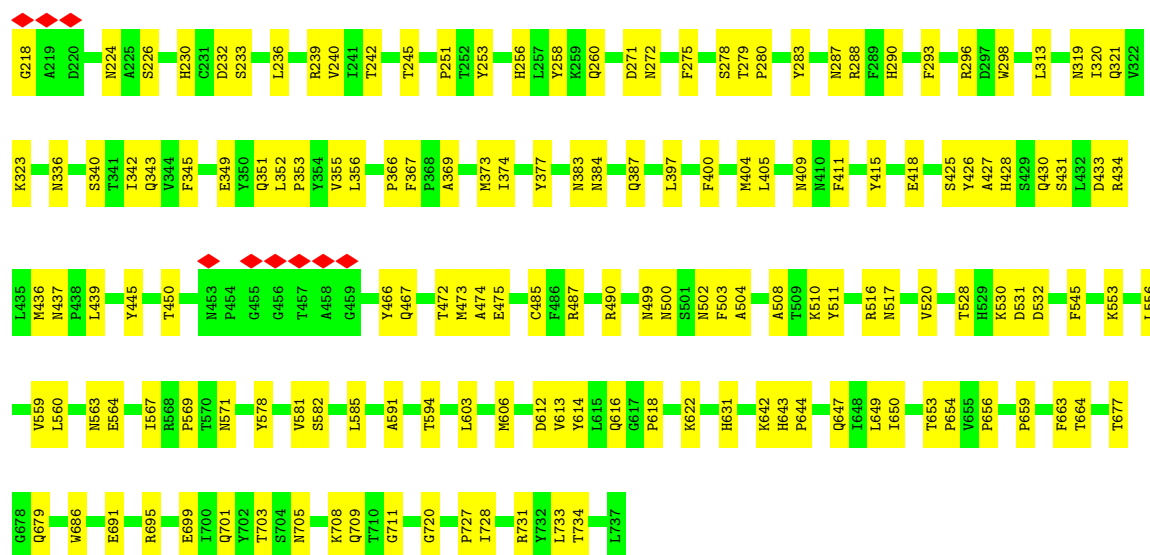


• Molecule 1: Capsid protein

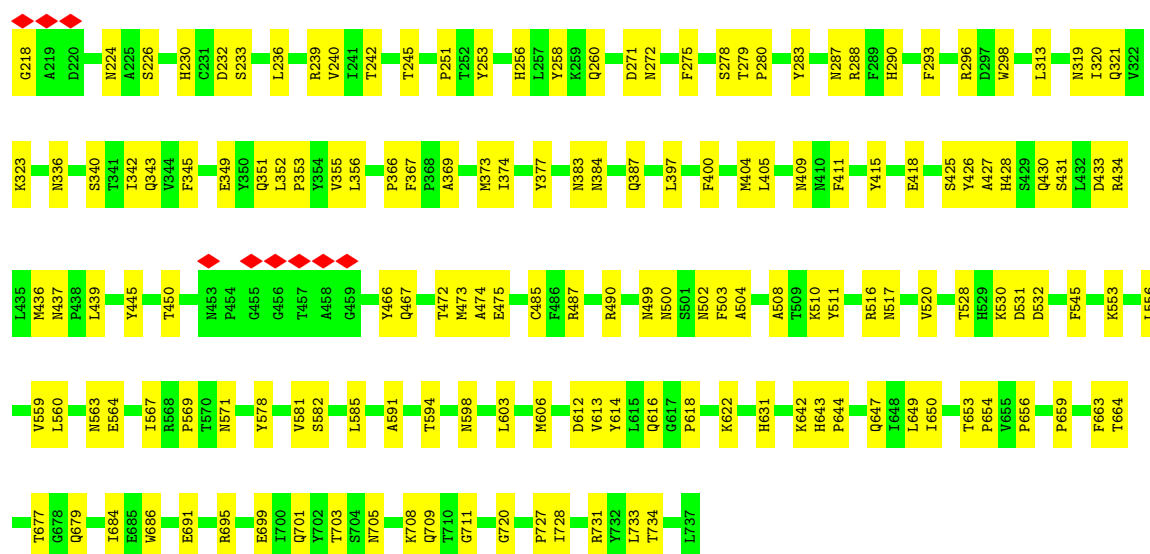


• Molecule 1: Capsid protein



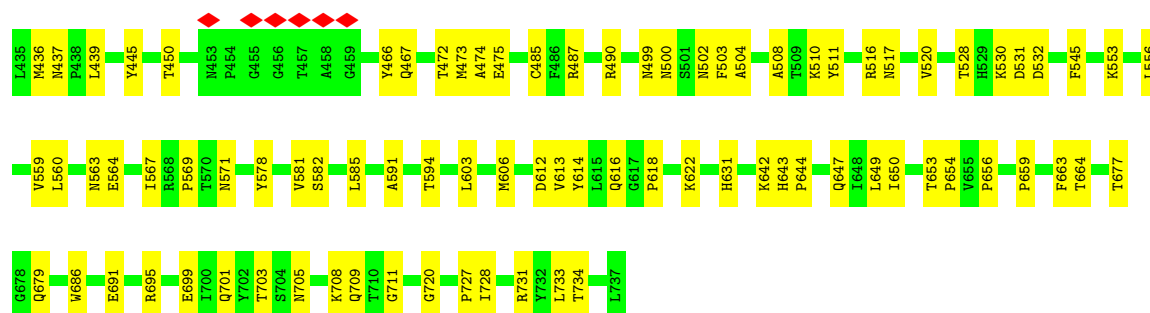


• Molecule 1: Capsid protein

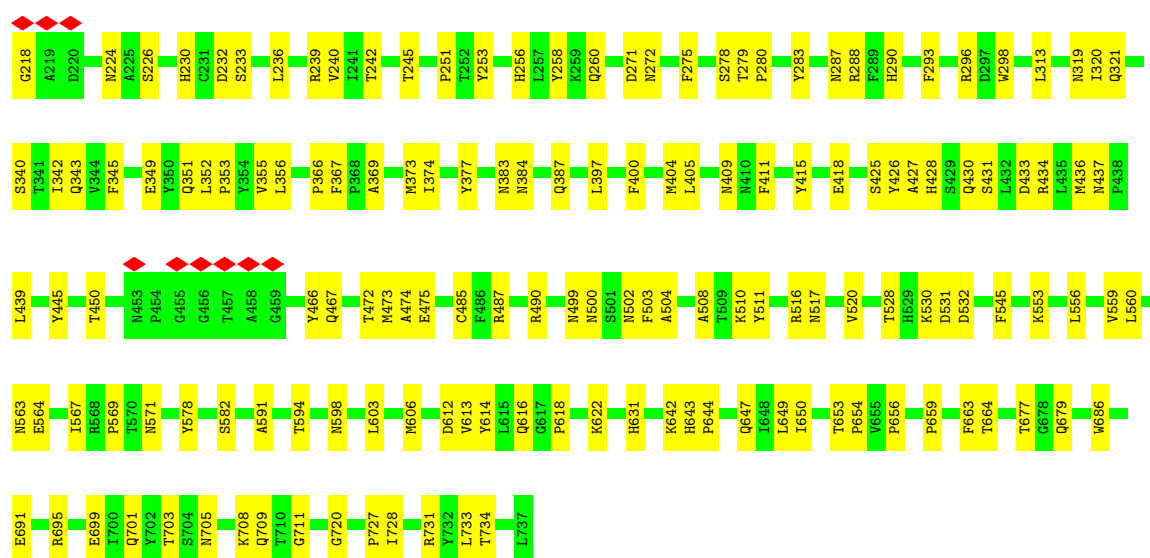


• Molecule 1: Capsid protein

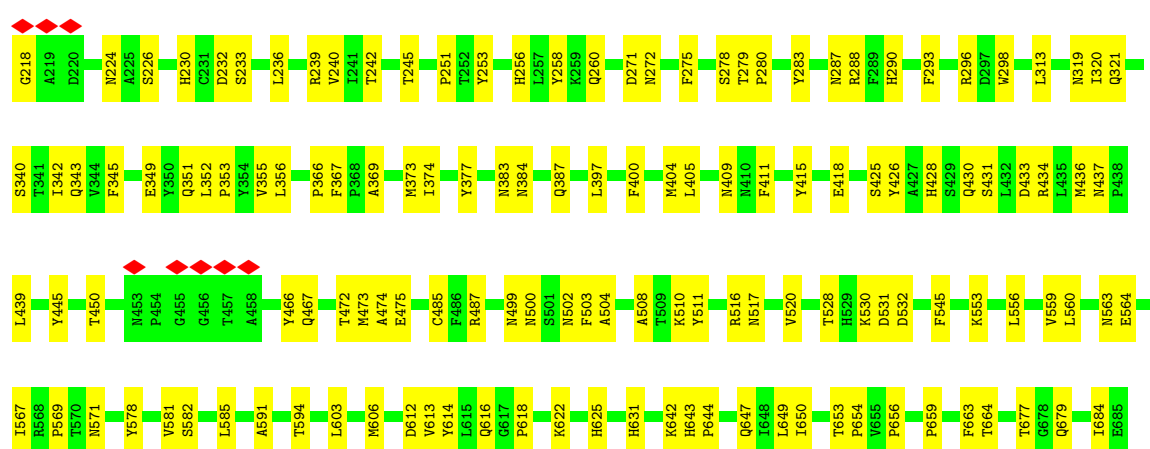




• Molecule 1: Capsid protein

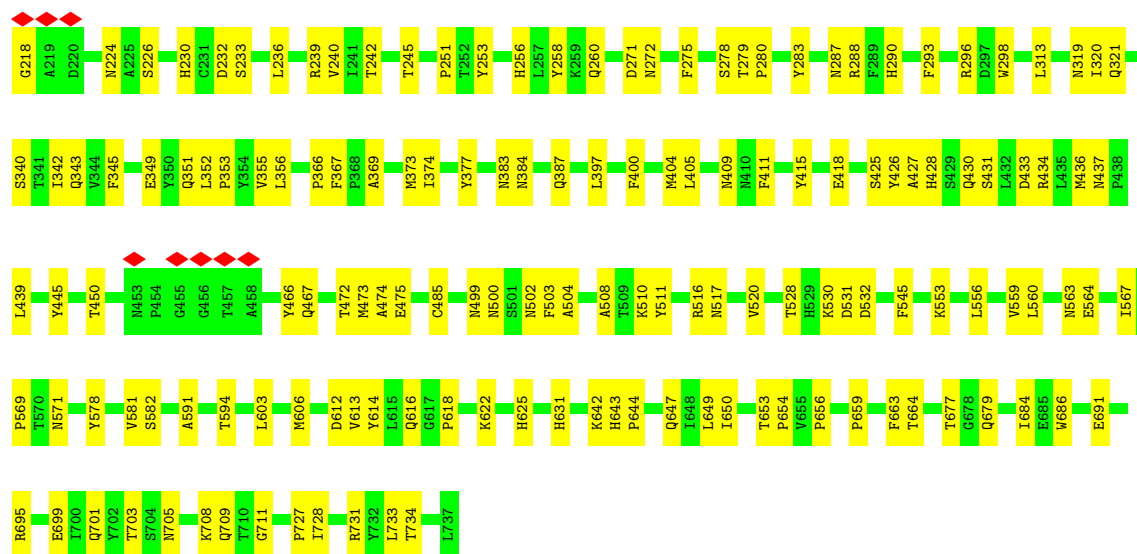


• Molecule 1: Capsid protein

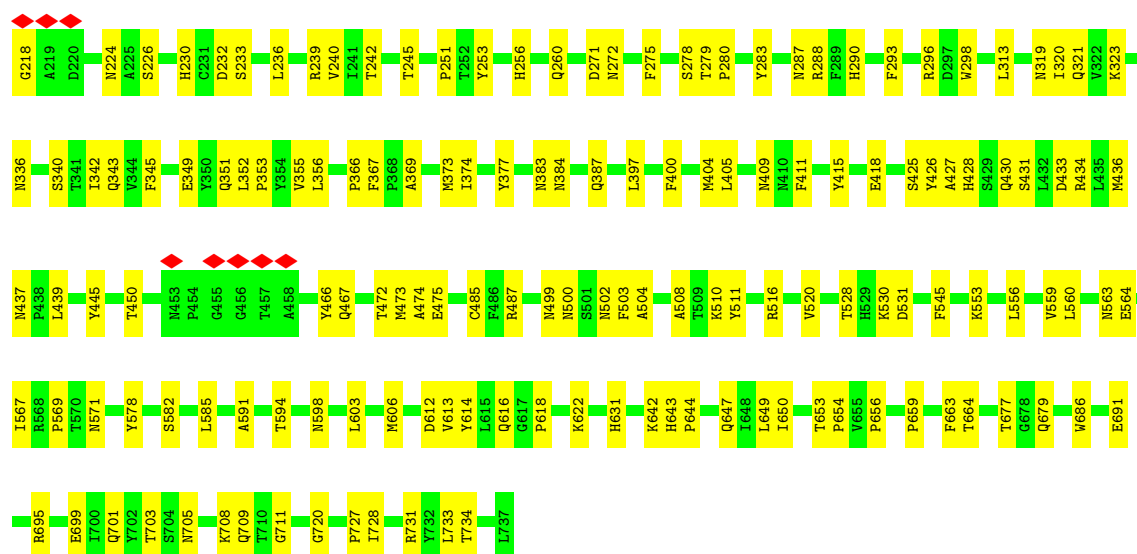




• Molecule 1: Capsid protein

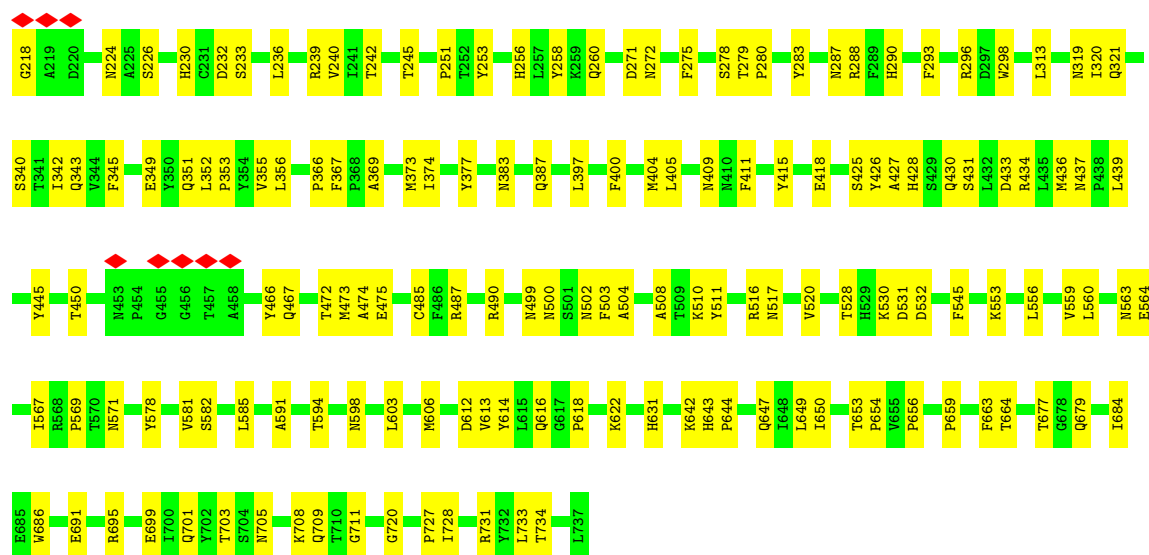


• Molecule 1: Capsid protein

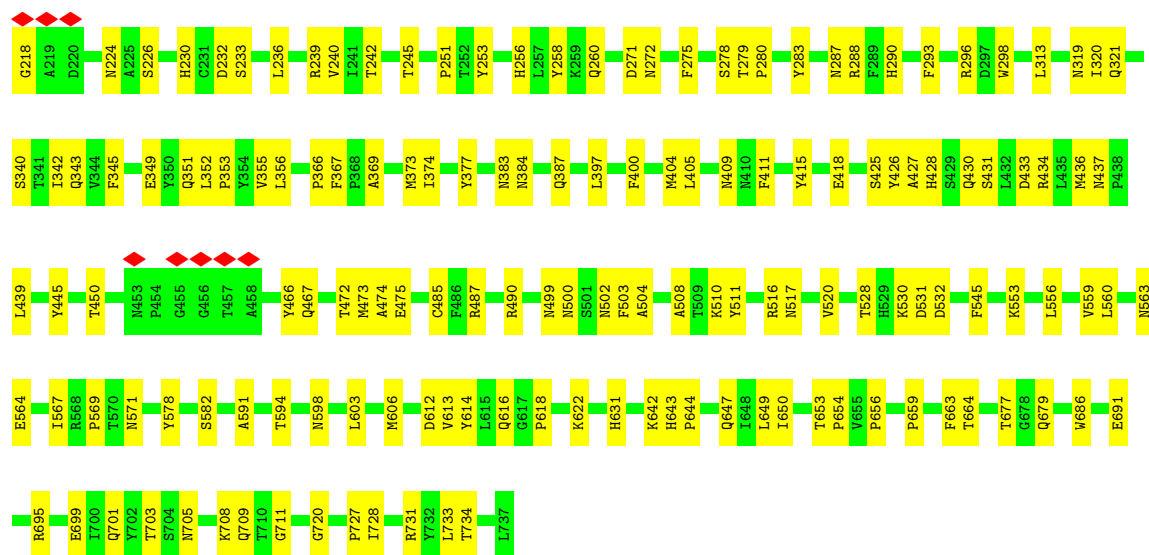


• Molecule 1: Capsid protein

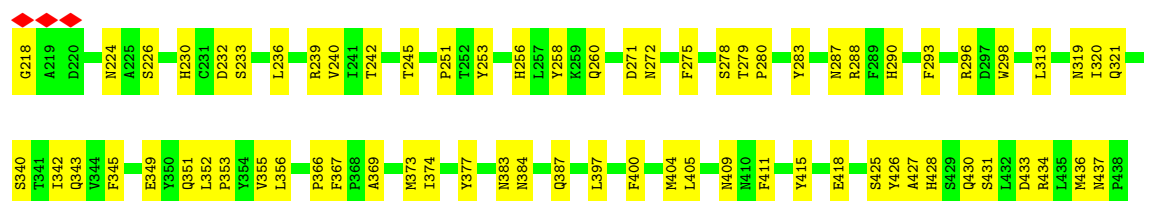


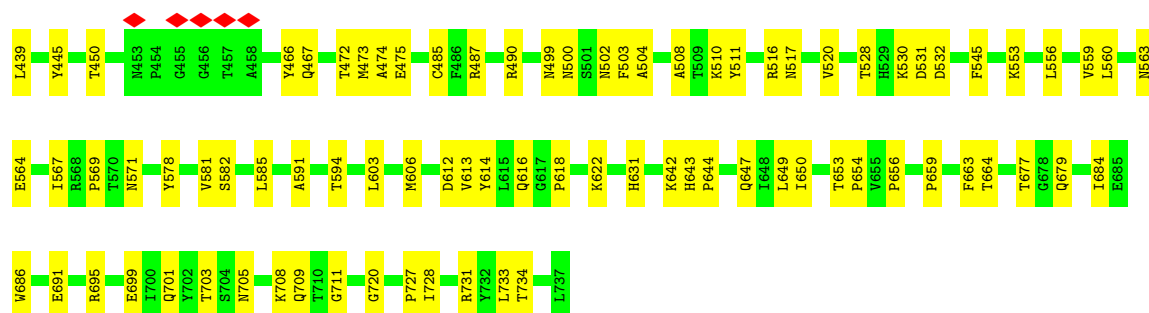


• Molecule 1: Capsid protein

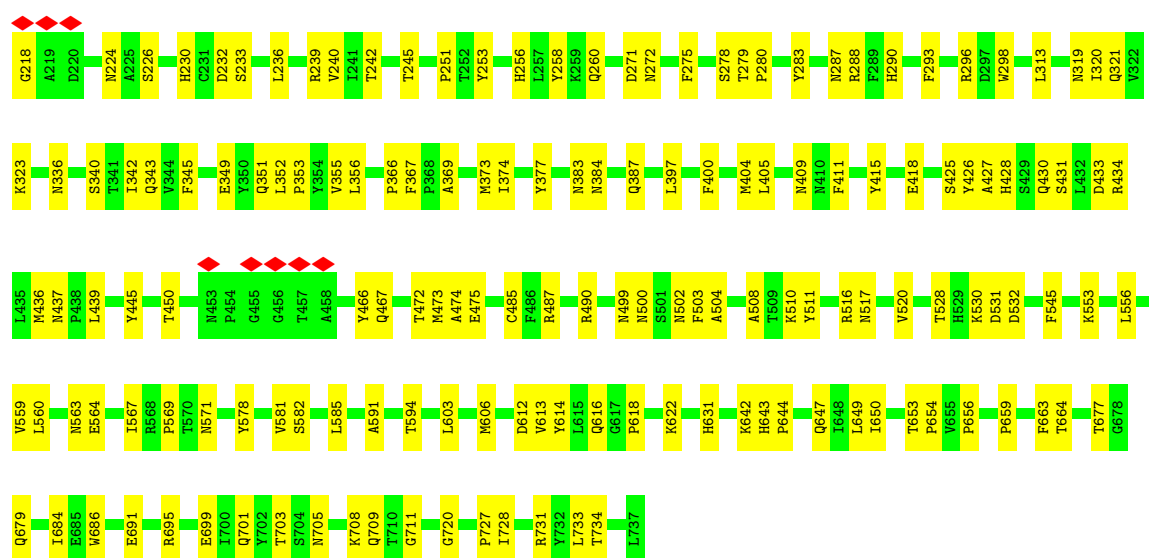


• Molecule 1: Capsid protein

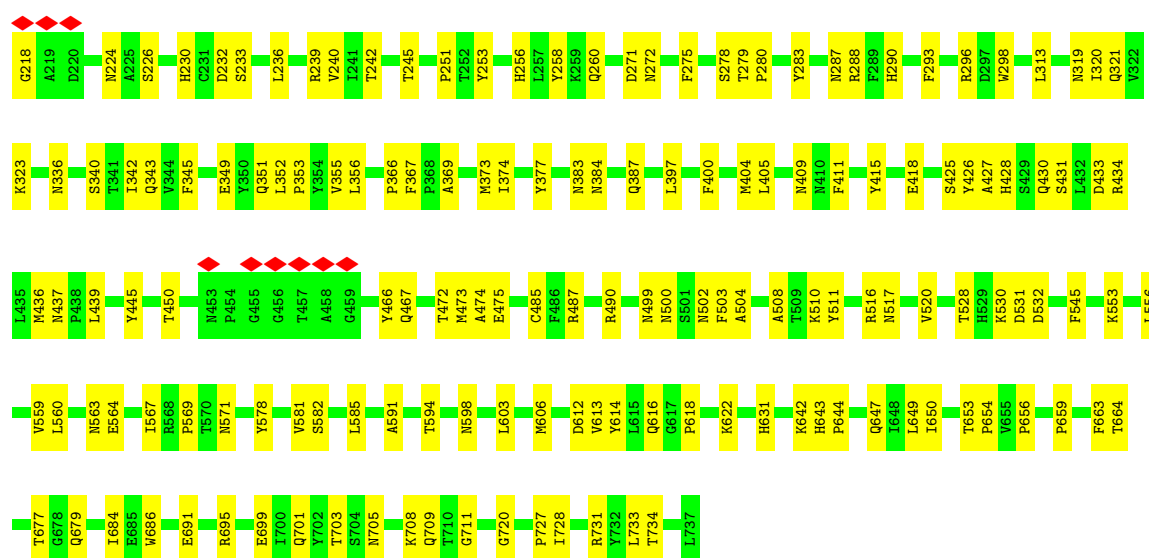




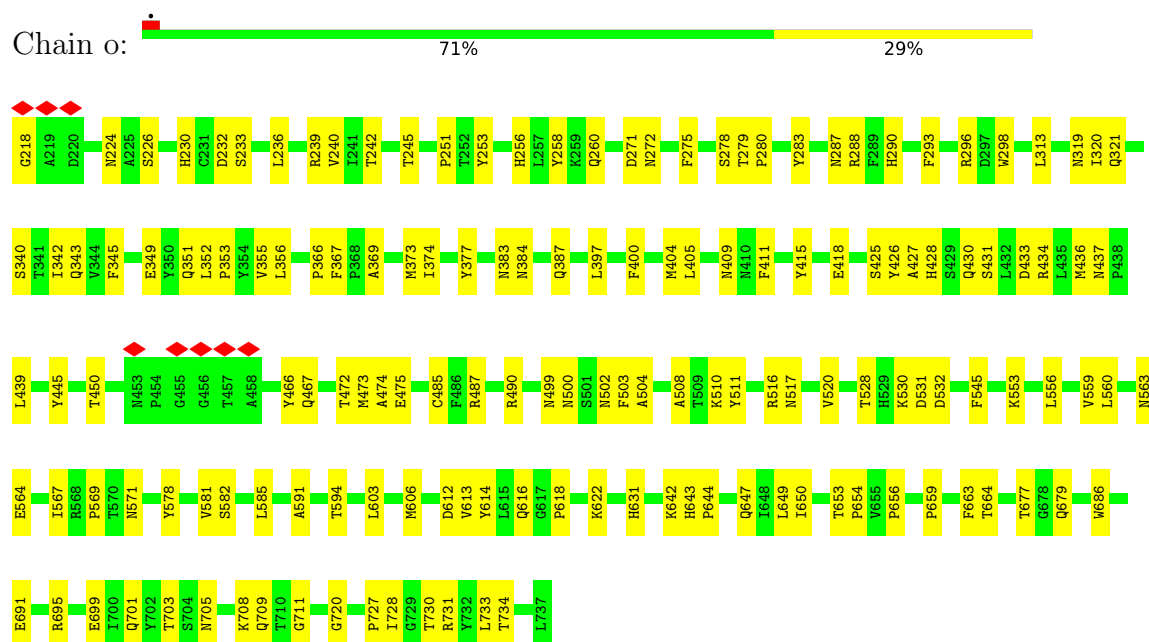
• Molecule 1: Capsid protein



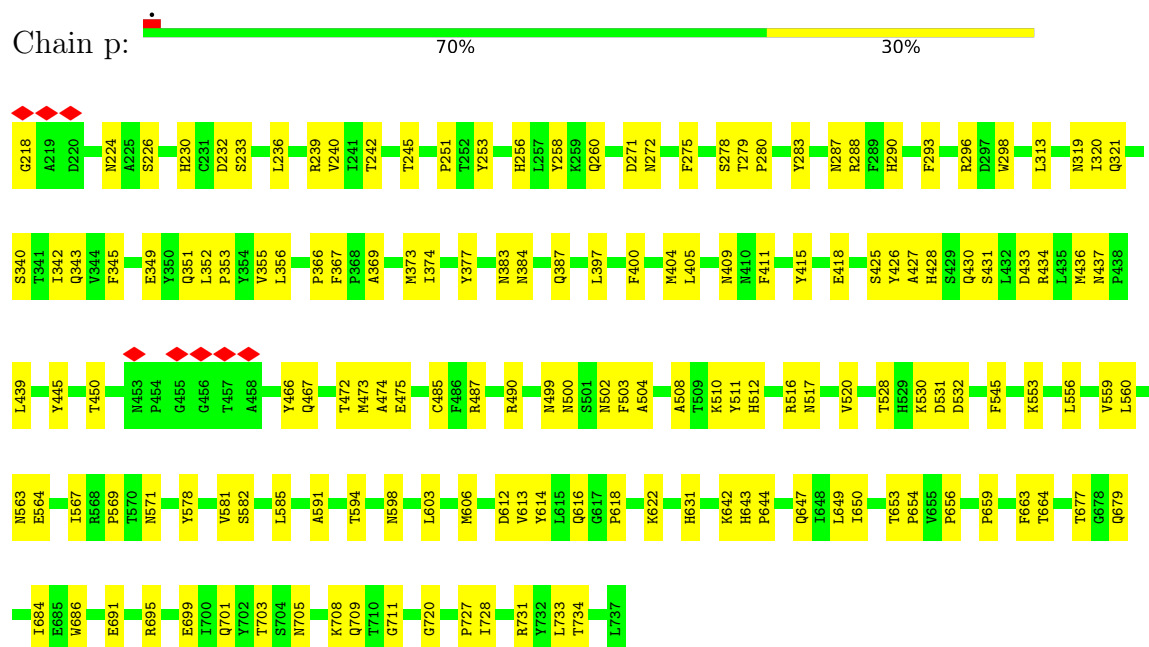
• Molecule 1: Capsid protein



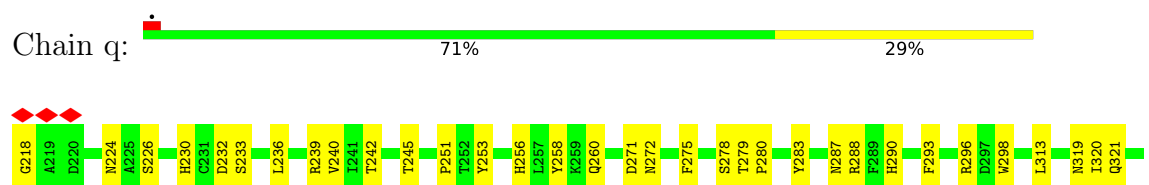
- Molecule 1: Capsid protein

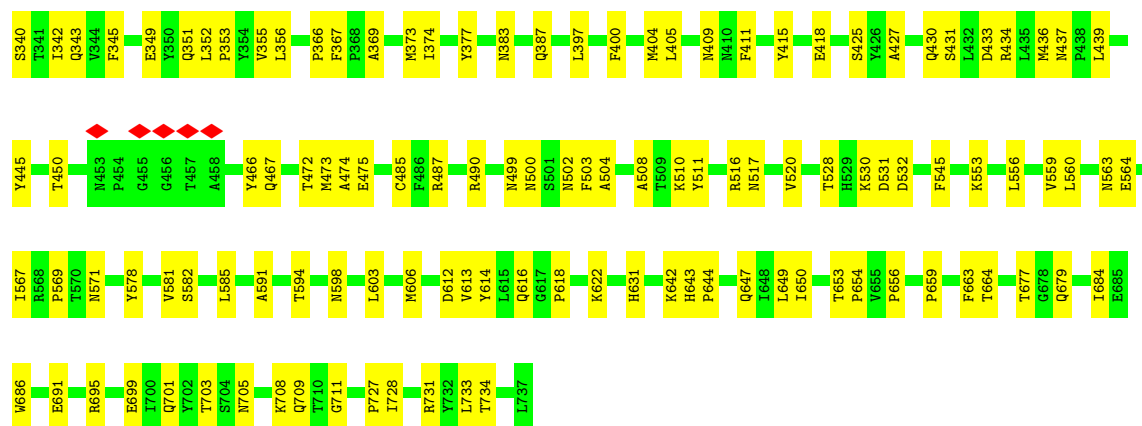


- Molecule 1: Capsid protein



- Molecule 1: Capsid protein

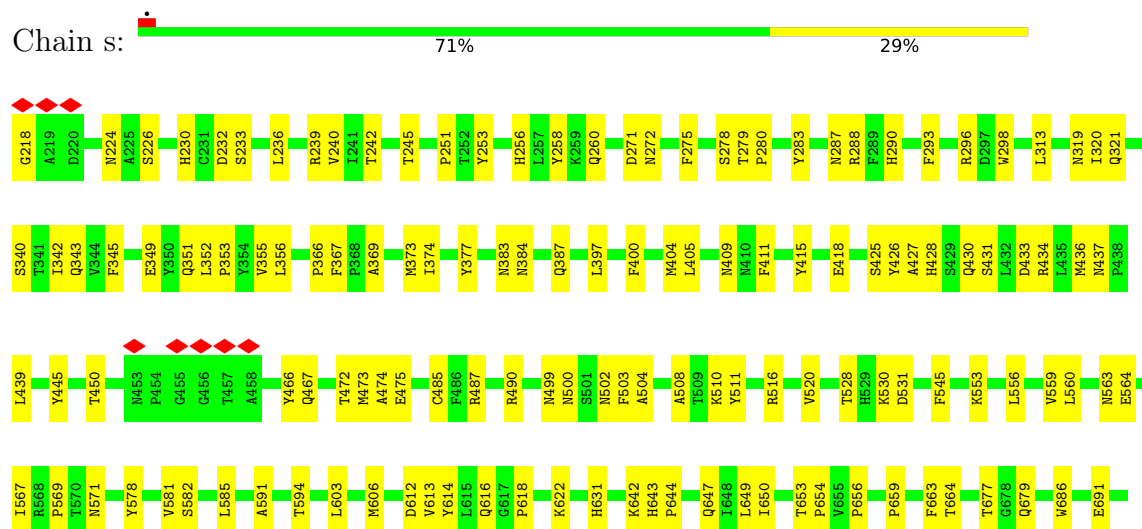




• Molecule 1: Capsid protein



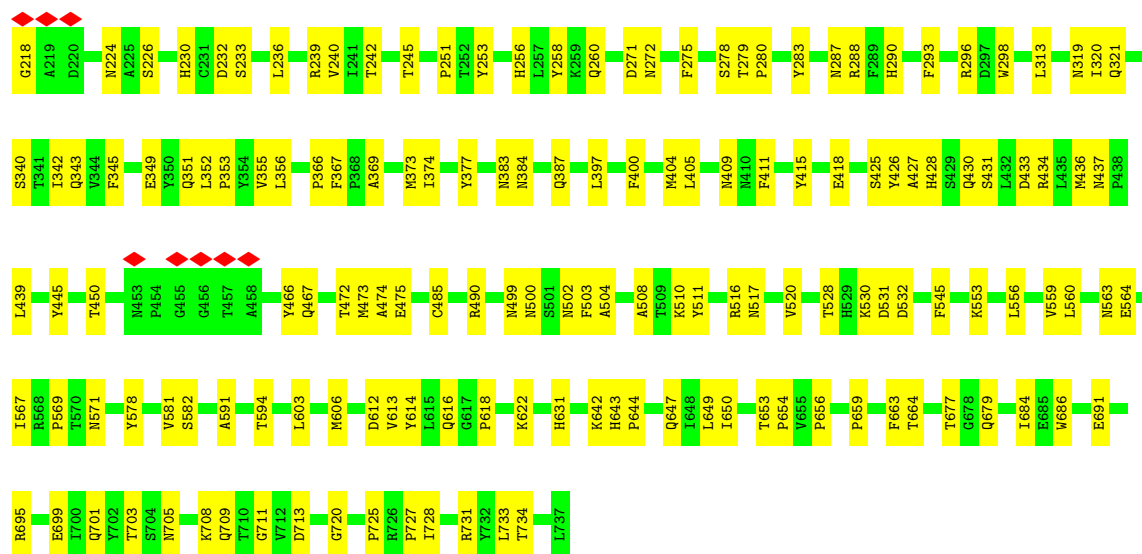
• Molecule 1: Capsid protein





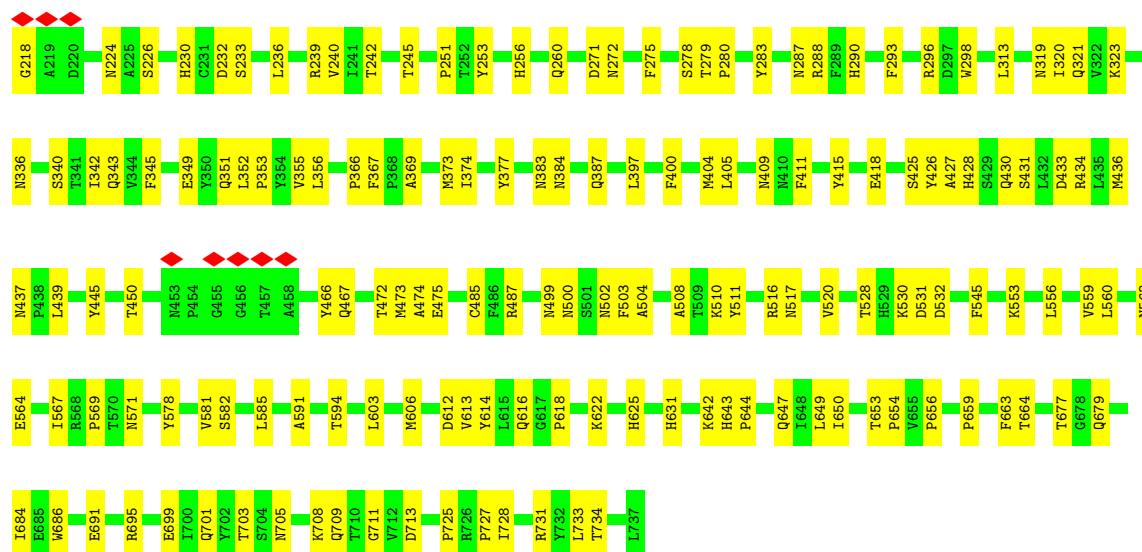
• Molecule 1: Capsid protein

Chain t: 71% 29%



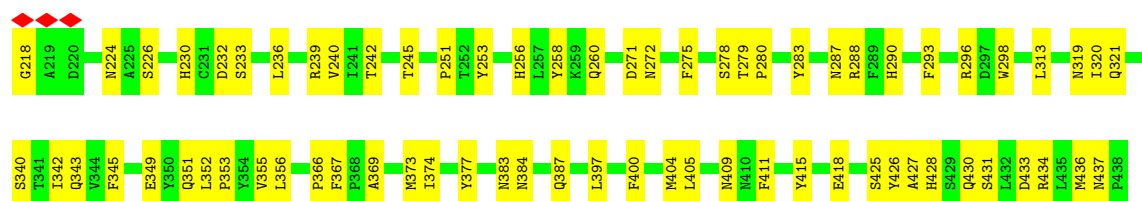
• Molecule 1: Capsid protein

Chain u: 70% 30%



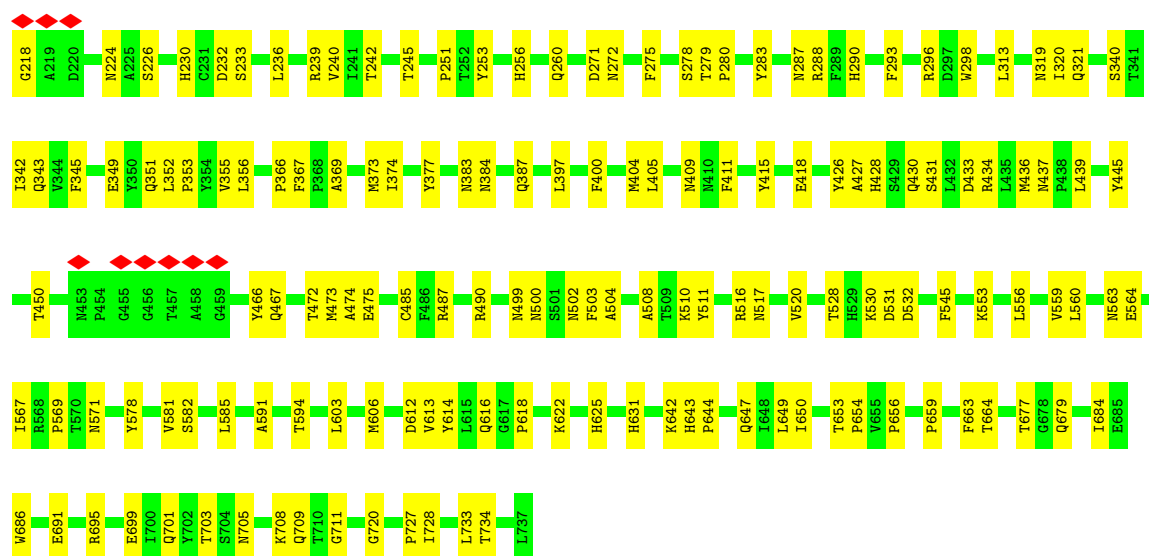
• Molecule 1: Capsid protein

Chain v: 70% 30%

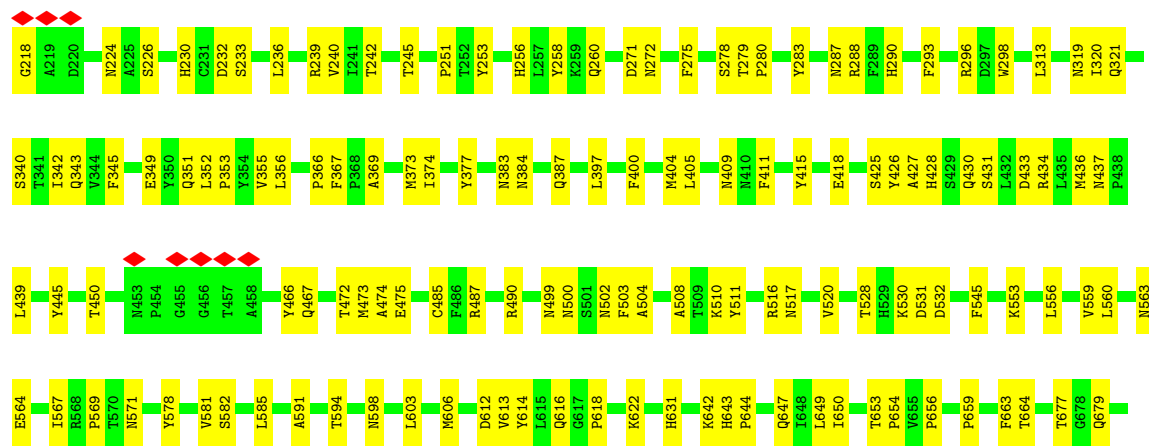




• Molecule 1: Capsid protein

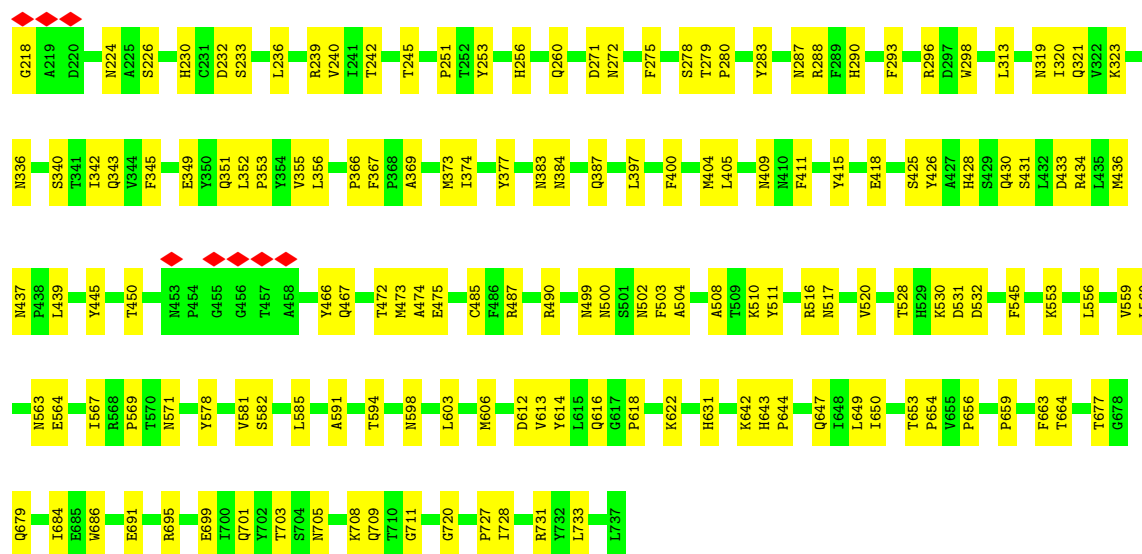


• Molecule 1: Capsid protein

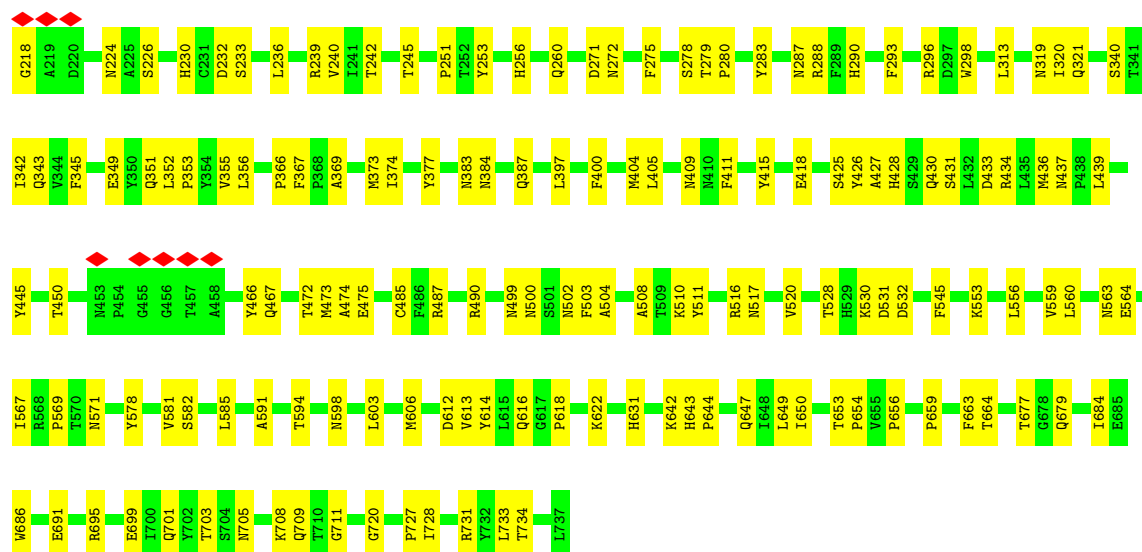




• Molecule 1: Capsid protein

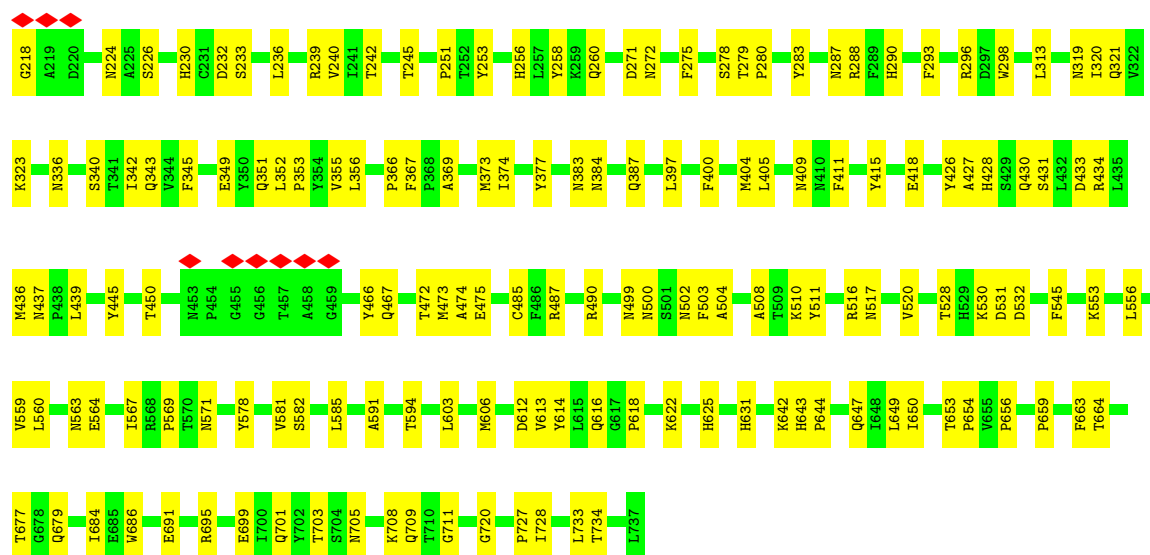


• Molecule 1: Capsid protein

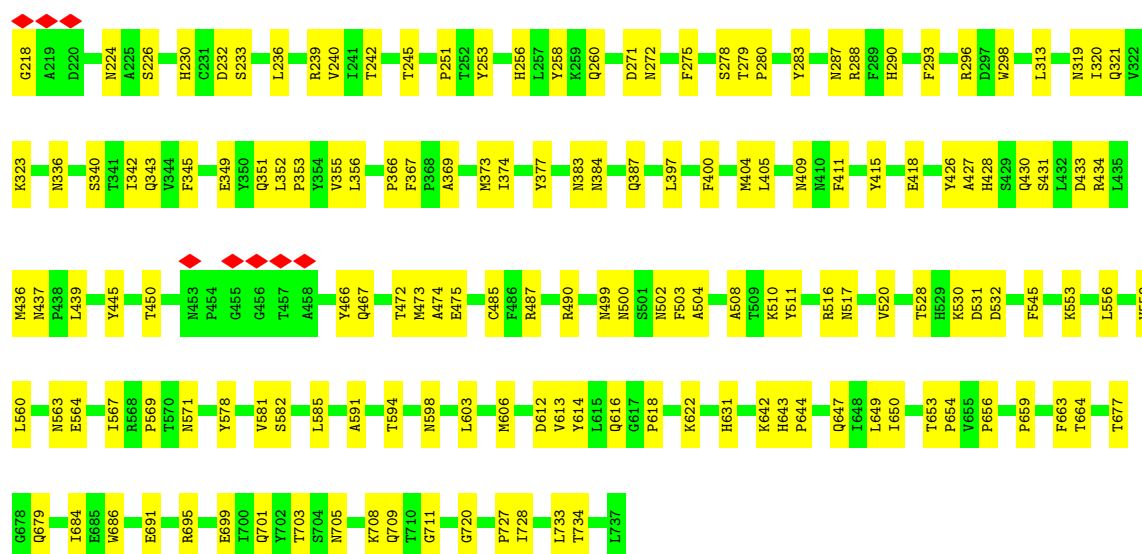


• Molecule 1: Capsid protein

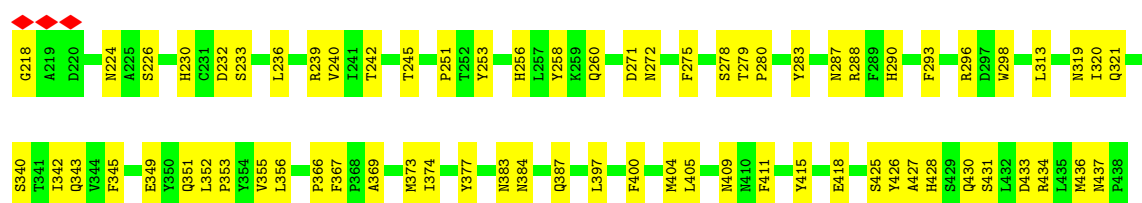


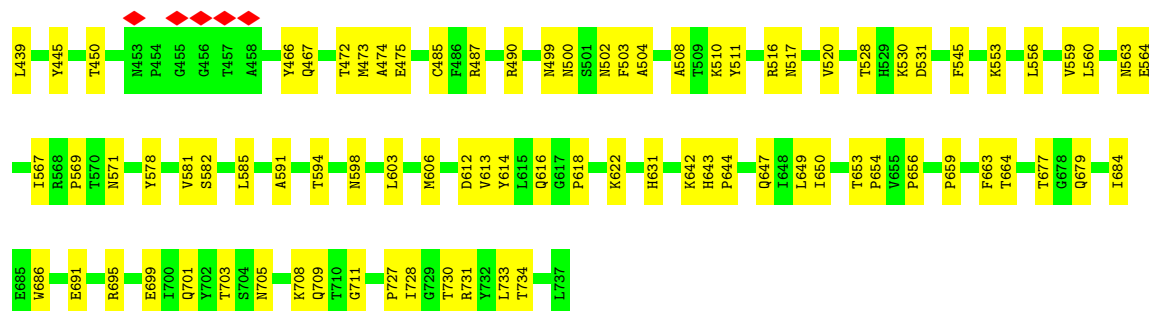


• Molecule 1: Capsid protein

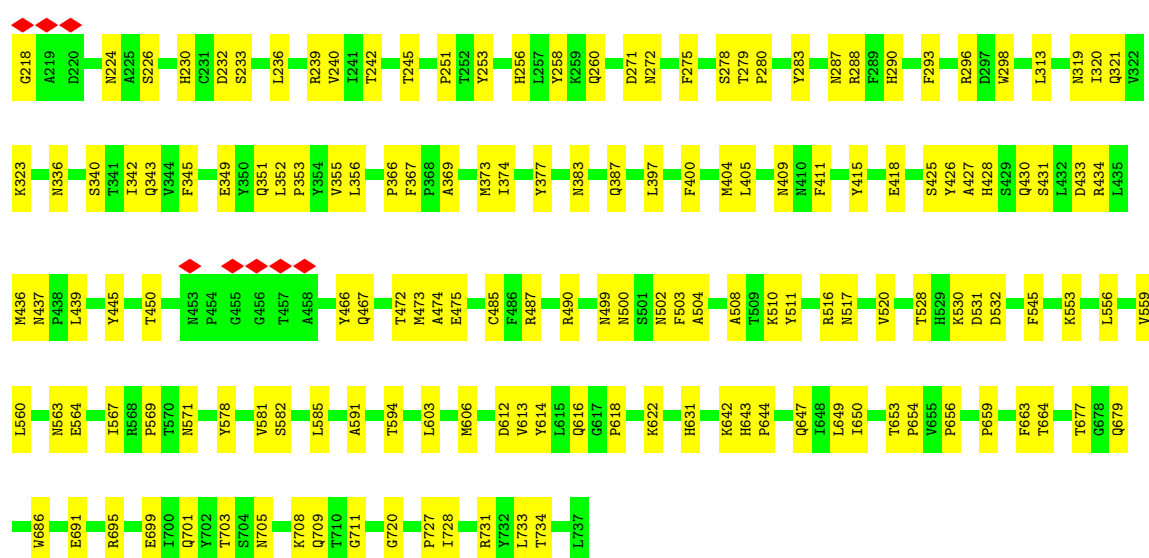


• Molecule 1: Capsid protein

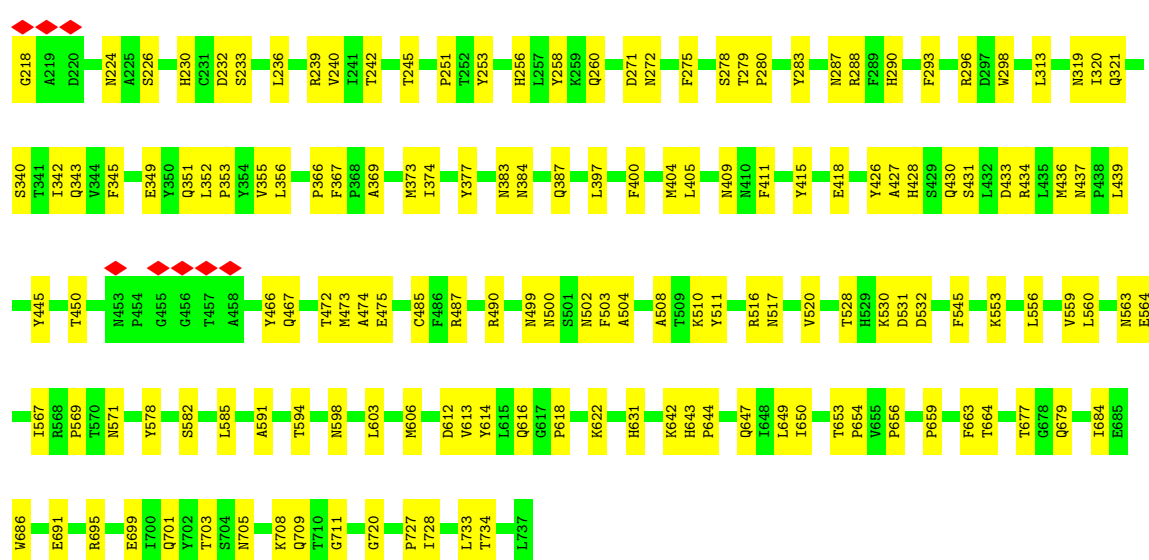




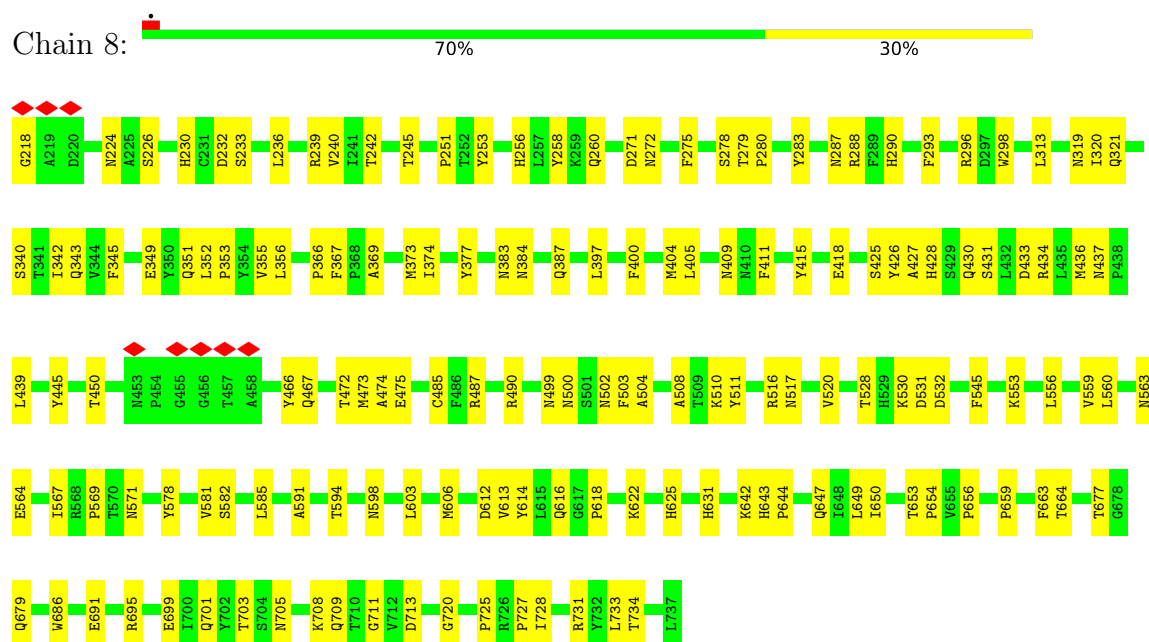
• Molecule 1: Capsid protein



• Molecule 1: Capsid protein



• Molecule 1: Capsid protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	4695	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	14.133	Depositor
Minimum map value	-8.501	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	454.02, 454.02, 454.02	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.081, 1.081, 1.081	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0/4270	0.52	1/5824 (0.0%)
1	2	0.43	0/4270	0.52	1/5824 (0.0%)
1	3	0.43	0/4270	0.52	1/5824 (0.0%)
1	4	0.43	0/4270	0.52	1/5824 (0.0%)
1	5	0.43	0/4270	0.52	1/5824 (0.0%)
1	6	0.43	0/4270	0.52	1/5824 (0.0%)
1	7	0.43	0/4270	0.52	1/5824 (0.0%)
1	8	0.43	0/4270	0.52	1/5824 (0.0%)
1	A	0.43	0/4270	0.52	1/5824 (0.0%)
1	B	0.43	0/4270	0.52	1/5824 (0.0%)
1	C	0.43	0/4270	0.52	1/5824 (0.0%)
1	D	0.43	0/4270	0.52	1/5824 (0.0%)
1	E	0.43	0/4270	0.52	1/5824 (0.0%)
1	F	0.43	0/4270	0.52	1/5824 (0.0%)
1	G	0.43	0/4270	0.52	1/5824 (0.0%)
1	H	0.43	0/4270	0.52	1/5824 (0.0%)
1	I	0.43	0/4270	0.52	1/5824 (0.0%)
1	J	0.43	0/4270	0.52	1/5824 (0.0%)
1	K	0.43	0/4270	0.52	1/5824 (0.0%)
1	L	0.43	0/4270	0.52	1/5824 (0.0%)
1	M	0.43	0/4270	0.52	1/5824 (0.0%)
1	N	0.43	0/4270	0.52	1/5824 (0.0%)
1	O	0.43	0/4270	0.52	1/5824 (0.0%)
1	P	0.43	0/4270	0.52	1/5824 (0.0%)
1	Q	0.43	0/4270	0.52	1/5824 (0.0%)
1	R	0.43	0/4270	0.52	1/5824 (0.0%)
1	S	0.43	0/4270	0.52	1/5824 (0.0%)
1	T	0.43	0/4270	0.52	1/5824 (0.0%)
1	U	0.43	0/4270	0.52	1/5824 (0.0%)
1	V	0.43	0/4270	0.52	1/5824 (0.0%)
1	W	0.43	0/4270	0.52	1/5824 (0.0%)
1	X	0.43	0/4270	0.52	1/5824 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	0.43	0/4270	0.52	1/5824 (0.0%)
1	Z	0.43	0/4270	0.52	1/5824 (0.0%)
1	a	0.43	0/4270	0.52	1/5824 (0.0%)
1	b	0.43	0/4270	0.52	1/5824 (0.0%)
1	c	0.43	0/4270	0.52	1/5824 (0.0%)
1	d	0.43	0/4270	0.52	1/5824 (0.0%)
1	e	0.43	0/4270	0.52	1/5824 (0.0%)
1	f	0.43	0/4270	0.52	1/5824 (0.0%)
1	g	0.43	0/4270	0.52	1/5824 (0.0%)
1	h	0.43	0/4270	0.52	1/5824 (0.0%)
1	i	0.43	0/4270	0.52	1/5824 (0.0%)
1	j	0.43	0/4270	0.52	1/5824 (0.0%)
1	k	0.43	0/4270	0.52	1/5824 (0.0%)
1	l	0.43	0/4270	0.52	1/5824 (0.0%)
1	m	0.43	0/4270	0.52	1/5824 (0.0%)
1	n	0.43	0/4270	0.52	1/5824 (0.0%)
1	o	0.43	0/4270	0.52	1/5824 (0.0%)
1	p	0.43	0/4270	0.52	1/5824 (0.0%)
1	q	0.43	0/4270	0.52	1/5824 (0.0%)
1	r	0.43	0/4270	0.52	1/5824 (0.0%)
1	s	0.43	0/4270	0.52	1/5824 (0.0%)
1	t	0.43	0/4270	0.52	1/5824 (0.0%)
1	u	0.43	0/4270	0.52	1/5824 (0.0%)
1	v	0.43	0/4270	0.52	1/5824 (0.0%)
1	w	0.43	0/4270	0.52	1/5824 (0.0%)
1	x	0.43	0/4270	0.52	1/5824 (0.0%)
1	y	0.43	0/4270	0.52	1/5824 (0.0%)
1	z	0.43	0/4270	0.52	1/5824 (0.0%)
All	All	0.43	0/256200	0.52	60/349440 (0.0%)

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	705	ASN	N-CA-C	8.47	120.51	111.28
1	r	705	ASN	N-CA-C	8.47	120.51	111.28
1	2	705	ASN	N-CA-C	8.47	120.51	111.28
1	W	705	ASN	N-CA-C	8.47	120.51	111.28
1	6	705	ASN	N-CA-C	8.47	120.51	111.28
1	j	705	ASN	N-CA-C	8.47	120.51	111.28
1	E	705	ASN	N-CA-C	8.46	120.50	111.28
1	X	705	ASN	N-CA-C	8.46	120.50	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	705	ASN	N-CA-C	8.46	120.50	111.28
1	H	705	ASN	N-CA-C	8.45	120.49	111.28
1	l	705	ASN	N-CA-C	8.45	120.49	111.28
1	5	705	ASN	N-CA-C	8.45	120.49	111.28
1	D	705	ASN	N-CA-C	8.45	120.48	111.28
1	B	705	ASN	N-CA-C	8.44	120.48	111.28
1	L	705	ASN	N-CA-C	8.44	120.48	111.28
1	R	705	ASN	N-CA-C	8.44	120.48	111.28
1	U	705	ASN	N-CA-C	8.44	120.48	111.28
1	q	705	ASN	N-CA-C	8.44	120.48	111.28
1	s	705	ASN	N-CA-C	8.44	120.48	111.28
1	z	705	ASN	N-CA-C	8.44	120.48	111.28
1	1	705	ASN	N-CA-C	8.44	120.48	111.28
1	C	705	ASN	N-CA-C	8.44	120.48	111.28
1	I	705	ASN	N-CA-C	8.44	120.48	111.28
1	Q	705	ASN	N-CA-C	8.44	120.48	111.28
1	T	705	ASN	N-CA-C	8.44	120.48	111.28
1	Z	705	ASN	N-CA-C	8.44	120.48	111.28
1	g	705	ASN	N-CA-C	8.44	120.47	111.28
1	u	705	ASN	N-CA-C	8.44	120.48	111.28
1	x	705	ASN	N-CA-C	8.44	120.48	111.28
1	8	705	ASN	N-CA-C	8.44	120.48	111.28
1	P	705	ASN	N-CA-C	8.43	120.47	111.28
1	A	705	ASN	N-CA-C	8.43	120.46	111.28
1	F	705	ASN	N-CA-C	8.43	120.46	111.28
1	a	705	ASN	N-CA-C	8.43	120.46	111.28
1	d	705	ASN	N-CA-C	8.43	120.46	111.28
1	n	705	ASN	N-CA-C	8.43	120.46	111.28
1	v	705	ASN	N-CA-C	8.43	120.46	111.28
1	y	705	ASN	N-CA-C	8.43	120.46	111.28
1	3	705	ASN	N-CA-C	8.43	120.46	111.28
1	b	705	ASN	N-CA-C	8.42	120.46	111.28
1	c	705	ASN	N-CA-C	8.42	120.46	111.28
1	e	705	ASN	N-CA-C	8.42	120.46	111.28
1	f	705	ASN	N-CA-C	8.42	120.46	111.28
1	J	705	ASN	N-CA-C	8.42	120.45	111.28
1	O	705	ASN	N-CA-C	8.41	120.45	111.28
1	i	705	ASN	N-CA-C	8.41	120.45	111.28
1	K	705	ASN	N-CA-C	8.41	120.44	111.28
1	m	705	ASN	N-CA-C	8.41	120.44	111.28
1	4	705	ASN	N-CA-C	8.41	120.44	111.28
1	V	705	ASN	N-CA-C	8.41	120.44	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	705	ASN	N-CA-C	8.41	120.44	111.28
1	Y	705	ASN	N-CA-C	8.40	120.44	111.28
1	k	705	ASN	N-CA-C	8.40	120.44	111.28
1	7	705	ASN	N-CA-C	8.40	120.44	111.28
1	G	705	ASN	N-CA-C	8.40	120.43	111.28
1	M	705	ASN	N-CA-C	8.40	120.43	111.28
1	h	705	ASN	N-CA-C	8.40	120.43	111.28
1	N	705	ASN	N-CA-C	8.39	120.43	111.28
1	w	705	ASN	N-CA-C	8.39	120.42	111.28
1	t	705	ASN	N-CA-C	8.38	120.41	111.28

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4145	0	3917	129	0
1	2	4145	0	3917	132	0
1	3	4145	0	3917	134	0
1	4	4145	0	3917	133	0
1	5	4145	0	3917	130	0
1	6	4145	0	3917	131	0
1	7	4145	0	3917	127	0
1	8	4145	0	3917	133	0
1	A	4145	0	3917	129	0
1	B	4145	0	3917	130	0
1	C	4145	0	3917	132	0
1	D	4145	0	3917	131	0
1	E	4145	0	3917	131	0
1	F	4145	0	3917	130	0
1	G	4145	0	3917	131	0
1	H	4145	0	3917	129	0
1	I	4145	0	3917	131	0
1	J	4145	0	3917	132	0
1	K	4145	0	3917	131	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	4145	0	3917	132	0
1	M	4145	0	3917	130	0
1	N	4145	0	3917	129	0
1	O	4145	0	3917	129	0
1	P	4145	0	3917	133	0
1	Q	4145	0	3917	134	0
1	R	4145	0	3917	129	0
1	S	4145	0	3917	132	0
1	T	4145	0	3917	129	0
1	U	4145	0	3917	128	0
1	V	4145	0	3917	131	0
1	W	4145	0	3917	130	0
1	X	4145	0	3917	128	0
1	Y	4145	0	3917	126	0
1	Z	4145	0	3917	134	0
1	a	4145	0	3917	134	0
1	b	4145	0	3917	130	0
1	c	4145	0	3917	132	0
1	d	4145	0	3917	133	0
1	e	4145	0	3917	131	0
1	f	4145	0	3917	129	0
1	g	4145	0	3917	131	0
1	h	4145	0	3917	129	0
1	i	4145	0	3917	126	0
1	j	4145	0	3917	130	0
1	k	4145	0	3917	128	0
1	l	4145	0	3917	130	0
1	m	4145	0	3917	130	0
1	n	4145	0	3917	133	0
1	o	4145	0	3917	130	0
1	p	4145	0	3917	133	0
1	q	4145	0	3917	128	0
1	r	4145	0	3917	134	0
1	s	4145	0	3917	127	0
1	t	4145	0	3917	130	0
1	u	4145	0	3917	130	0
1	v	4145	0	3917	132	0
1	w	4145	0	3917	133	0
1	x	4145	0	3917	134	0
1	y	4145	0	3917	130	0
1	z	4145	0	3917	132	0
2	1	22	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	2	22	0	12	0	0
2	3	22	0	12	0	0
2	4	22	0	12	0	0
2	5	22	0	12	0	0
2	6	22	0	12	0	0
2	7	22	0	12	0	0
2	8	22	0	12	0	0
2	A	22	0	12	0	0
2	B	22	0	12	0	0
2	C	22	0	12	0	0
2	D	22	0	12	0	0
2	E	22	0	12	0	0
2	F	22	0	12	0	0
2	G	22	0	12	0	0
2	H	22	0	12	0	0
2	I	22	0	12	0	0
2	J	22	0	12	0	0
2	K	22	0	12	0	0
2	L	22	0	12	0	0
2	M	22	0	12	0	0
2	N	22	0	12	0	0
2	O	22	0	12	0	0
2	P	22	0	12	0	0
2	Q	22	0	12	0	0
2	R	22	0	12	0	0
2	S	22	0	12	0	0
2	T	22	0	12	0	0
2	U	22	0	12	0	0
2	V	22	0	12	0	0
2	W	22	0	12	0	0
2	X	22	0	12	0	0
2	Y	22	0	12	0	0
2	Z	22	0	12	0	0
2	a	22	0	12	0	0
2	b	22	0	12	0	0
2	c	22	0	12	0	0
2	d	22	0	12	0	0
2	e	22	0	12	0	0
2	f	22	0	12	0	0
2	g	22	0	12	0	0
2	h	22	0	12	0	0
2	i	22	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	j	22	0	12	0	0
2	k	22	0	12	0	0
2	l	22	0	12	0	0
2	m	22	0	12	0	0
2	n	22	0	12	0	0
2	o	22	0	12	0	0
2	p	22	0	12	0	0
2	q	22	0	12	0	0
2	r	22	0	12	0	0
2	s	22	0	12	0	0
2	t	22	0	12	0	0
2	u	22	0	12	0	0
2	v	22	0	12	0	0
2	w	22	0	12	0	0
2	x	22	0	12	0	0
2	y	22	0	12	0	0
2	z	22	0	12	0	0
All	All	250020	0	235740	6324	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 13.

All (6324) 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:N:530:LYS:HG2	1:N:531:ASP:H	1.49	0.78
1:A:530:LYS:HG2	1:A:531:ASP:H	1.49	0.78
1:a:530:LYS:HG2	1:a:531:ASP:H	1.49	0.78
1:3:530:LYS:HG2	1:3:531:ASP:H	1.49	0.78
1:i:530:LYS:HG2	1:i:531:ASP:H	1.49	0.78
1:v:530:LYS:HG2	1:v:531:ASP:H	1.49	0.78
1:C:530:LYS:HG2	1:C:531:ASP:H	1.49	0.78
1:Y:530:LYS:HG2	1:Y:531:ASP:H	1.49	0.78
1:g:530:LYS:HG2	1:g:531:ASP:H	1.49	0.78
1:t:530:LYS:HG2	1:t:531:ASP:H	1.49	0.78
1:z:530:LYS:HG2	1:z:531:ASP:H	1.49	0.78
1:7:530:LYS:HG2	1:7:531:ASP:H	1.49	0.78
1:G:530:LYS:HG2	1:G:531:ASP:H	1.49	0.78
1:K:530:LYS:HG2	1:K:531:ASP:H	1.49	0.78
1:L:530:LYS:HG2	1:L:531:ASP:H	1.49	0.78
1:U:530:LYS:HG2	1:U:531:ASP:H	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:530:LYS:HG2	1:X:531:ASP:H	1.49	0.78
1:4:530:LYS:HG2	1:4:531:ASP:H	1.49	0.78
1:o:530:LYS:HG2	1:o:531:ASP:H	1.49	0.77
1:s:530:LYS:HG2	1:s:531:ASP:H	1.49	0.77
1:O:530:LYS:HG2	1:O:531:ASP:H	1.49	0.77
1:w:530:LYS:HG2	1:w:531:ASP:H	1.49	0.77
1:y:530:LYS:HG2	1:y:531:ASP:H	1.49	0.77
1:E:530:LYS:HG2	1:E:531:ASP:H	1.49	0.77
1:F:530:LYS:HG2	1:F:531:ASP:H	1.49	0.77
1:l:530:LYS:HG2	1:l:531:ASP:H	1.49	0.77
1:n:530:LYS:HG2	1:n:531:ASP:H	1.49	0.77
1:1:530:LYS:HG2	1:1:531:ASP:H	1.49	0.77
1:d:530:LYS:HG2	1:d:531:ASP:H	1.49	0.77
1:W:530:LYS:HG2	1:W:531:ASP:H	1.49	0.77
1:p:530:LYS:HG2	1:p:531:ASP:H	1.49	0.77
1:6:530:LYS:HG2	1:6:531:ASP:H	1.49	0.77
1:B:530:LYS:HG2	1:B:531:ASP:H	1.49	0.77
1:b:530:LYS:HG2	1:b:531:ASP:H	1.49	0.77
1:h:530:LYS:HG2	1:h:531:ASP:H	1.49	0.77
1:k:530:LYS:HG2	1:k:531:ASP:H	1.49	0.77
1:D:530:LYS:HG2	1:D:531:ASP:H	1.49	0.77
1:V:530:LYS:HG2	1:V:531:ASP:H	1.49	0.77
1:M:530:LYS:HG2	1:M:531:ASP:H	1.49	0.77
1:f:530:LYS:HG2	1:f:531:ASP:H	1.49	0.77
1:2:530:LYS:HG2	1:2:531:ASP:H	1.49	0.76
1:H:530:LYS:HG2	1:H:531:ASP:H	1.49	0.76
1:J:530:LYS:HG2	1:J:531:ASP:H	1.49	0.76
1:m:530:LYS:HG2	1:m:531:ASP:H	1.49	0.76
1:P:530:LYS:HG2	1:P:531:ASP:H	1.49	0.76
1:j:530:LYS:HG2	1:j:531:ASP:H	1.49	0.76
1:u:530:LYS:HG2	1:u:531:ASP:H	1.49	0.76
1:8:530:LYS:HG2	1:8:531:ASP:H	1.49	0.76
1:e:530:LYS:HG2	1:e:531:ASP:H	1.49	0.76
1:5:530:LYS:HG2	1:5:531:ASP:H	1.49	0.76
1:S:530:LYS:HG2	1:S:531:ASP:H	1.49	0.76
1:r:530:LYS:HG2	1:r:531:ASP:H	1.49	0.76
1:I:530:LYS:HG2	1:I:531:ASP:H	1.49	0.76
1:T:530:LYS:HG2	1:T:531:ASP:H	1.49	0.76
1:Z:530:LYS:HG2	1:Z:531:ASP:H	1.49	0.76
1:c:530:LYS:HG2	1:c:531:ASP:H	1.49	0.76
1:x:530:LYS:HG2	1:x:531:ASP:H	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:530:LYS:HG2	1:R:531:ASP:H	1.49	0.76
1:Q:530:LYS:HG2	1:Q:531:ASP:H	1.49	0.76
1:q:530:LYS:HG2	1:q:531:ASP:H	1.49	0.76
1:Q:288:ARG:NE	1:Q:290:HIS:HE1	1.85	0.75
1:k:288:ARG:NE	1:k:290:HIS:HE1	1.85	0.75
1:D:288:ARG:NE	1:D:290:HIS:HE1	1.85	0.75
1:j:288:ARG:NE	1:j:290:HIS:HE1	1.85	0.75
1:x:288:ARG:NE	1:x:290:HIS:HE1	1.85	0.75
1:4:288:ARG:NE	1:4:290:HIS:HE1	1.85	0.75
1:K:288:ARG:NE	1:K:290:HIS:HE1	1.85	0.75
1:P:288:ARG:NE	1:P:290:HIS:HE1	1.85	0.75
1:C:288:ARG:NE	1:C:290:HIS:HE1	1.85	0.75
1:M:288:ARG:NE	1:M:290:HIS:HE1	1.85	0.75
1:Y:288:ARG:NE	1:Y:290:HIS:HE1	1.85	0.75
1:g:288:ARG:NE	1:g:290:HIS:HE1	1.85	0.75
1:7:288:ARG:NE	1:7:290:HIS:HE1	1.85	0.75
1:E:288:ARG:NE	1:E:290:HIS:HE1	1.85	0.75
1:O:288:ARG:NE	1:O:290:HIS:HE1	1.85	0.75
1:h:288:ARG:NE	1:h:290:HIS:HE1	1.85	0.75
1:l:288:ARG:NE	1:l:290:HIS:HE1	1.85	0.75
1:w:288:ARG:NE	1:w:290:HIS:HE1	1.85	0.75
1:6:288:ARG:NE	1:6:290:HIS:HE1	1.85	0.75
1:B:288:ARG:NE	1:B:290:HIS:HE1	1.85	0.75
1:F:288:ARG:NE	1:F:290:HIS:HE1	1.85	0.75
1:f:288:ARG:NE	1:f:290:HIS:HE1	1.85	0.75
1:m:288:ARG:NE	1:m:290:HIS:HE1	1.85	0.75
1:y:288:ARG:NE	1:y:290:HIS:HE1	1.85	0.75
1:1:288:ARG:NE	1:1:290:HIS:HE1	1.85	0.75
1:T:288:ARG:NE	1:T:290:HIS:HE1	1.85	0.75
1:W:288:ARG:NE	1:W:290:HIS:HE1	1.85	0.75
1:b:288:ARG:NE	1:b:290:HIS:HE1	1.85	0.75
1:c:288:ARG:NE	1:c:290:HIS:HE1	1.85	0.75
1:i:288:ARG:NE	1:i:290:HIS:HE1	1.85	0.75
1:N:288:ARG:NE	1:N:290:HIS:HE1	1.85	0.75
1:e:288:ARG:NE	1:e:290:HIS:HE1	1.85	0.75
1:H:288:ARG:NE	1:H:290:HIS:HE1	1.85	0.74
1:X:288:ARG:NE	1:X:290:HIS:HE1	1.85	0.74
1:L:288:ARG:NE	1:L:290:HIS:HE1	1.85	0.74
1:n:288:ARG:NE	1:n:290:HIS:HE1	1.85	0.74
1:o:288:ARG:NE	1:o:290:HIS:HE1	1.85	0.74
1:G:288:ARG:NE	1:G:290:HIS:HE1	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:288:ARG:NE	1:a:290:HIS:HE1	1.85	0.74
1:z:288:ARG:NE	1:z:290:HIS:HE1	1.85	0.74
1:5:288:ARG:NE	1:5:290:HIS:HE1	1.85	0.74
1:A:288:ARG:NE	1:A:290:HIS:HE1	1.85	0.74
1:d:288:ARG:NE	1:d:290:HIS:HE1	1.85	0.74
1:v:288:ARG:NE	1:v:290:HIS:HE1	1.85	0.74
1:3:288:ARG:NE	1:3:290:HIS:HE1	1.85	0.74
1:J:288:ARG:NE	1:J:290:HIS:HE1	1.85	0.74
1:r:288:ARG:NE	1:r:290:HIS:HE1	1.85	0.74
1:t:288:ARG:NE	1:t:290:HIS:HE1	1.85	0.74
1:S:288:ARG:NE	1:S:290:HIS:HE1	1.85	0.74
1:U:288:ARG:NE	1:U:290:HIS:HE1	1.85	0.74
1:s:288:ARG:NE	1:s:290:HIS:HE1	1.85	0.74
1:2:288:ARG:NE	1:2:290:HIS:HE1	1.85	0.74
1:q:288:ARG:NE	1:q:290:HIS:HE1	1.85	0.74
1:R:288:ARG:NE	1:R:290:HIS:HE1	1.85	0.74
1:Z:288:ARG:NE	1:Z:290:HIS:HE1	1.85	0.73
1:u:288:ARG:NE	1:u:290:HIS:HE1	1.85	0.73
1:8:288:ARG:NE	1:8:290:HIS:HE1	1.85	0.73
1:M:279:THR:OG1	1:M:377:TYR:O	2.07	0.73
1:h:279:THR:OG1	1:h:377:TYR:O	2.07	0.73
1:I:288:ARG:NE	1:I:290:HIS:HE1	1.85	0.73
1:p:288:ARG:NE	1:p:290:HIS:HE1	1.85	0.73
1:c:279:THR:OG1	1:c:377:TYR:O	2.07	0.73
1:e:279:THR:OG1	1:e:377:TYR:O	2.07	0.73
1:V:288:ARG:NE	1:V:290:HIS:HE1	1.85	0.73
1:Z:279:THR:OG1	1:Z:377:TYR:O	2.07	0.73
1:6:279:THR:OG1	1:6:377:TYR:O	2.07	0.73
1:8:279:THR:OG1	1:8:377:TYR:O	2.07	0.73
1:W:279:THR:OG1	1:W:377:TYR:O	2.07	0.73
1:Y:279:THR:OG1	1:Y:377:TYR:O	2.07	0.73
1:7:279:THR:OG1	1:7:377:TYR:O	2.07	0.72
1:D:279:THR:OG1	1:D:377:TYR:O	2.07	0.72
1:U:279:THR:OG1	1:U:377:TYR:O	2.06	0.72
1:k:279:THR:OG1	1:k:377:TYR:O	2.07	0.72
1:q:279:THR:OG1	1:q:377:TYR:O	2.06	0.72
1:I:279:THR:OG1	1:I:377:TYR:O	2.07	0.72
1:R:279:THR:OG1	1:R:377:TYR:O	2.06	0.72
1:s:279:THR:OG1	1:s:377:TYR:O	2.06	0.72
1:u:279:THR:OG1	1:u:377:TYR:O	2.07	0.72
1:N:279:THR:OG1	1:N:377:TYR:O	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:279:THR:OG1	1:i:377:TYR:O	2.07	0.72
1:S:260:GLN:HG3	1:S:260:GLN:O	1.91	0.71
1:V:260:GLN:HG3	1:V:260:GLN:O	1.91	0.71
1:Y:260:GLN:O	1:Y:260:GLN:HG3	1.91	0.71
1:p:260:GLN:HG3	1:p:260:GLN:O	1.91	0.71
1:7:260:GLN:HG3	1:7:260:GLN:O	1.91	0.71
1:c:260:GLN:HG3	1:c:260:GLN:O	1.91	0.71
1:r:260:GLN:HG3	1:r:260:GLN:O	1.91	0.71
1:3:279:THR:OG1	1:3:377:TYR:O	2.07	0.71
1:4:260:GLN:HG3	1:4:260:GLN:O	1.91	0.71
1:K:260:GLN:HG3	1:K:260:GLN:O	1.91	0.71
1:a:260:GLN:O	1:a:260:GLN:HG3	1.91	0.71
1:e:260:GLN:HG3	1:e:260:GLN:O	1.91	0.71
1:5:260:GLN:HG3	1:5:260:GLN:O	1.91	0.71
1:H:260:GLN:HG3	1:H:260:GLN:O	1.91	0.71
1:j:279:THR:OG1	1:j:377:TYR:O	2.07	0.71
1:v:260:GLN:HG3	1:v:260:GLN:O	1.91	0.71
1:3:260:GLN:HG3	1:3:260:GLN:O	1.91	0.71
1:6:260:GLN:O	1:6:260:GLN:HG3	1.91	0.71
1:R:260:GLN:HG3	1:R:260:GLN:O	1.91	0.71
1:S:279:THR:OG1	1:S:377:TYR:O	2.07	0.71
1:W:260:GLN:HG3	1:W:260:GLN:O	1.91	0.71
1:a:279:THR:OG1	1:a:377:TYR:O	2.07	0.71
1:r:279:THR:OG1	1:r:377:TYR:O	2.07	0.71
1:v:279:THR:OG1	1:v:377:TYR:O	2.07	0.71
1:A:260:GLN:O	1:A:260:GLN:HG3	1.91	0.71
1:E:260:GLN:HG3	1:E:260:GLN:O	1.91	0.71
1:J:260:GLN:HG3	1:J:260:GLN:O	1.91	0.71
1:P:279:THR:OG1	1:P:377:TYR:O	2.07	0.71
1:T:260:GLN:O	1:T:260:GLN:HG3	1.91	0.71
1:q:260:GLN:HG3	1:q:260:GLN:O	1.91	0.71
1:A:279:THR:OG1	1:A:377:TYR:O	2.07	0.71
1:L:260:GLN:HG3	1:L:260:GLN:O	1.91	0.71
1:T:279:THR:OG1	1:T:377:TYR:O	2.07	0.71
1:X:260:GLN:HG3	1:X:260:GLN:O	1.91	0.71
1:m:260:GLN:HG3	1:m:260:GLN:O	1.91	0.71
1:2:260:GLN:HG3	1:2:260:GLN:O	1.91	0.71
1:K:279:THR:OG1	1:K:377:TYR:O	2.07	0.70
1:Q:260:GLN:O	1:Q:260:GLN:HG3	1.91	0.70
1:l:260:GLN:O	1:l:260:GLN:HG3	1.91	0.70
1:m:279:THR:OG1	1:m:377:TYR:O	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:260:GLN:HG3	1:o:260:GLN:O	1.91	0.70
1:w:260:GLN:O	1:w:260:GLN:HG3	1.91	0.70
1:x:260:GLN:HG3	1:x:260:GLN:O	1.91	0.70
1:z:260:GLN:HG3	1:z:260:GLN:O	1.91	0.70
1:4:279:THR:OG1	1:4:377:TYR:O	2.07	0.70
1:l:260:GLN:O	1:l:260:GLN:HG3	1.91	0.70
1:b:260:GLN:HG3	1:b:260:GLN:O	1.91	0.70
1:b:279:THR:OG1	1:b:377:TYR:O	2.07	0.70
1:f:279:THR:OG1	1:f:377:TYR:O	2.07	0.70
1:p:279:THR:OG1	1:p:377:TYR:O	2.07	0.70
1:u:260:GLN:HG3	1:u:260:GLN:O	1.91	0.70
1:D:260:GLN:HG3	1:D:260:GLN:O	1.91	0.70
1:O:260:GLN:HG3	1:O:260:GLN:O	1.91	0.70
1:f:260:GLN:HG3	1:f:260:GLN:O	1.91	0.70
1:w:279:THR:OG1	1:w:377:TYR:O	2.07	0.70
1:1:279:THR:OG1	1:1:377:TYR:O	2.06	0.70
1:M:260:GLN:HG3	1:M:260:GLN:O	1.91	0.70
1:V:279:THR:OG1	1:V:377:TYR:O	2.07	0.70
1:X:279:THR:OG1	1:X:377:TYR:O	2.07	0.70
1:o:279:THR:OG1	1:o:377:TYR:O	2.07	0.70
1:y:279:THR:OG1	1:y:377:TYR:O	2.07	0.70
1:G:383:ASN:OD1	1:G:516:ARG:NH2	2.25	0.70
1:T:383:ASN:OD1	1:T:516:ARG:NH2	2.25	0.70
1:U:260:GLN:HG3	1:U:260:GLN:O	1.91	0.70
1:X:383:ASN:OD1	1:X:516:ARG:NH2	2.25	0.70
1:k:260:GLN:HG3	1:k:260:GLN:O	1.91	0.70
1:m:383:ASN:OD1	1:m:516:ARG:NH2	2.25	0.70
1:o:383:ASN:OD1	1:o:516:ARG:NH2	2.25	0.70
1:t:383:ASN:OD1	1:t:516:ARG:NH2	2.25	0.70
1:x:383:ASN:OD1	1:x:516:ARG:NH2	2.25	0.70
1:y:383:ASN:OD1	1:y:516:ARG:NH2	2.25	0.70
1:B:279:THR:OG1	1:B:377:TYR:O	2.06	0.70
1:E:279:THR:OG1	1:E:377:TYR:O	2.07	0.70
1:F:383:ASN:OD1	1:F:516:ARG:NH2	2.25	0.70
1:P:383:ASN:OD1	1:P:516:ARG:NH2	2.25	0.70
1:Q:383:ASN:OD1	1:Q:516:ARG:NH2	2.25	0.70
1:R:383:ASN:OD1	1:R:516:ARG:NH2	2.25	0.70
1:Z:383:ASN:OD1	1:Z:516:ARG:NH2	2.25	0.70
1:b:383:ASN:OD1	1:b:516:ARG:NH2	2.25	0.70
1:j:383:ASN:OD1	1:j:516:ARG:NH2	2.25	0.70
1:p:383:ASN:OD1	1:p:516:ARG:NH2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:383:ASN:OD1	1:q:516:ARG:NH2	2.25	0.70
1:s:260:GLN:HG3	1:s:260:GLN:O	1.91	0.70
1:2:383:ASN:OD1	1:2:516:ARG:NH2	2.25	0.70
1:8:383:ASN:OD1	1:8:516:ARG:NH2	2.25	0.70
1:F:279:THR:OG1	1:F:377:TYR:O	2.07	0.70
1:J:383:ASN:OD1	1:J:516:ARG:NH2	2.25	0.70
1:V:383:ASN:OD1	1:V:516:ARG:NH2	2.25	0.70
1:f:383:ASN:OD1	1:f:516:ARG:NH2	2.25	0.70
1:g:279:THR:OG1	1:g:377:TYR:O	2.07	0.70
1:h:260:GLN:HG3	1:h:260:GLN:O	1.91	0.70
1:k:383:ASN:OD1	1:k:516:ARG:NH2	2.25	0.70
1:C:383:ASN:OD1	1:C:516:ARG:NH2	2.25	0.70
1:D:383:ASN:OD1	1:D:516:ARG:NH2	2.25	0.70
1:e:383:ASN:OD1	1:e:516:ARG:NH2	2.25	0.70
1:i:260:GLN:HG3	1:i:260:GLN:O	1.91	0.70
1:r:383:ASN:OD1	1:r:516:ARG:NH2	2.25	0.70
1:t:260:GLN:O	1:t:260:GLN:HG3	1.91	0.70
1:6:383:ASN:OD1	1:6:516:ARG:NH2	2.25	0.70
1:A:383:ASN:OD1	1:A:516:ARG:NH2	2.25	0.70
1:S:383:ASN:OD1	1:S:516:ARG:NH2	2.25	0.70
1:W:383:ASN:OD1	1:W:516:ARG:NH2	2.25	0.70
1:c:383:ASN:OD1	1:c:516:ARG:NH2	2.25	0.70
1:g:383:ASN:OD1	1:g:516:ARG:NH2	2.25	0.70
1:v:383:ASN:OD1	1:v:516:ARG:NH2	2.25	0.70
1:C:279:THR:OG1	1:C:377:TYR:O	2.07	0.70
1:G:260:GLN:HG3	1:G:260:GLN:O	1.91	0.70
1:H:383:ASN:OD1	1:H:516:ARG:NH2	2.25	0.70
1:N:260:GLN:HG3	1:N:260:GLN:O	1.91	0.70
1:Z:260:GLN:HG3	1:Z:260:GLN:O	1.91	0.69
1:a:383:ASN:OD1	1:a:516:ARG:NH2	2.25	0.69
1:g:260:GLN:HG3	1:g:260:GLN:O	1.91	0.69
1:w:383:ASN:OD1	1:w:516:ARG:NH2	2.25	0.69
1:1:260:GLN:O	1:1:260:GLN:HG3	1.91	0.69
1:3:383:ASN:OD1	1:3:516:ARG:NH2	2.25	0.69
1:5:383:ASN:OD1	1:5:516:ARG:NH2	2.25	0.69
1:8:260:GLN:HG3	1:8:260:GLN:O	1.91	0.69
1:B:260:GLN:HG3	1:B:260:GLN:O	1.91	0.69
1:E:383:ASN:OD1	1:E:516:ARG:NH2	2.25	0.69
1:K:383:ASN:OD1	1:K:516:ARG:NH2	2.25	0.69
1:O:383:ASN:OD1	1:O:516:ARG:NH2	2.25	0.69
1:U:383:ASN:OD1	1:U:516:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:383:ASN:OD1	1:d:516:ARG:NH2	2.25	0.69
1:l:383:ASN:OD1	1:l:516:ARG:NH2	2.25	0.69
1:n:383:ASN:OD1	1:n:516:ARG:NH2	2.25	0.69
1:C:260:GLN:HG3	1:C:260:GLN:O	1.91	0.69
1:F:260:GLN:HG3	1:F:260:GLN:O	1.91	0.69
1:I:383:ASN:OD1	1:I:516:ARG:NH2	2.25	0.69
1:4:383:ASN:OD1	1:4:516:ARG:NH2	2.25	0.69
1:L:279:THR:OG1	1:L:377:TYR:O	2.06	0.69
1:s:383:ASN:OD1	1:s:516:ARG:NH2	2.25	0.69
1:u:383:ASN:OD1	1:u:516:ARG:NH2	2.25	0.69
1:c:485:CYS:SG	1:c:578:TYR:HB2	2.33	0.69
1:e:485:CYS:SG	1:e:578:TYR:HB2	2.33	0.69
1:n:279:THR:OG1	1:n:377:TYR:O	2.07	0.69
1:y:260:GLN:HG3	1:y:260:GLN:O	1.91	0.69
1:A:485:CYS:SG	1:A:578:TYR:HB2	2.33	0.69
1:E:355:VAL:H	1:E:647:GLN:HE22	1.41	0.69
1:N:226:SER:HG	1:N:319:ASN:H	1.41	0.69
1:N:383:ASN:OD1	1:N:516:ARG:NH2	2.25	0.69
1:P:355:VAL:H	1:P:647:GLN:HE22	1.41	0.69
1:d:260:GLN:O	1:d:260:GLN:HG3	1.91	0.69
1:j:355:VAL:H	1:j:647:GLN:HE22	1.41	0.69
1:v:485:CYS:SG	1:v:578:TYR:HB2	2.33	0.69
1:w:355:VAL:H	1:w:647:GLN:HE22	1.41	0.69
1:z:279:THR:OG1	1:z:377:TYR:O	2.06	0.69
1:H:485:CYS:SG	1:H:578:TYR:HB2	2.33	0.69
1:N:355:VAL:H	1:N:647:GLN:HE22	1.41	0.69
1:U:485:CYS:SG	1:U:578:TYR:HB2	2.33	0.69
1:i:383:ASN:OD1	1:i:516:ARG:NH2	2.25	0.69
1:k:485:CYS:SG	1:k:578:TYR:HB2	2.33	0.69
1:s:485:CYS:SG	1:s:578:TYR:HB2	2.33	0.69
1:5:485:CYS:SG	1:5:578:TYR:HB2	2.33	0.69
1:D:485:CYS:SG	1:D:578:TYR:HB2	2.33	0.69
1:F:485:CYS:SG	1:F:578:TYR:HB2	2.33	0.69
1:G:485:CYS:SG	1:G:578:TYR:HB2	2.33	0.69
1:I:485:CYS:SG	1:I:578:TYR:HB2	2.33	0.69
1:M:355:VAL:H	1:M:647:GLN:HE22	1.41	0.69
1:P:485:CYS:SG	1:P:578:TYR:HB2	2.33	0.69
1:V:485:CYS:SG	1:V:578:TYR:HB2	2.33	0.69
1:Y:485:CYS:SG	1:Y:578:TYR:HB2	2.33	0.69
1:d:279:THR:OG1	1:d:377:TYR:O	2.07	0.69
1:h:355:VAL:H	1:h:647:GLN:HE22	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:383:ASN:OD1	1:h:516:ARG:NH2	2.25	0.69
1:i:355:VAL:H	1:i:647:GLN:HE22	1.41	0.69
1:j:485:CYS:SG	1:j:578:TYR:HB2	2.33	0.69
1:n:260:GLN:HG3	1:n:260:GLN:O	1.91	0.69
1:p:485:CYS:SG	1:p:578:TYR:HB2	2.33	0.69
1:t:485:CYS:SG	1:t:578:TYR:HB2	2.33	0.69
1:u:485:CYS:SG	1:u:578:TYR:HB2	2.33	0.69
1:y:485:CYS:SG	1:y:578:TYR:HB2	2.33	0.69
1:z:383:ASN:OD1	1:z:516:ARG:NH2	2.25	0.69
1:7:485:CYS:SG	1:7:578:TYR:HB2	2.33	0.69
1:C:355:VAL:H	1:C:647:GLN:HE22	1.41	0.69
1:L:383:ASN:OD1	1:L:516:ARG:NH2	2.25	0.69
1:M:383:ASN:OD1	1:M:516:ARG:NH2	2.25	0.69
1:g:355:VAL:H	1:g:647:GLN:HE22	1.41	0.69
1:n:485:CYS:SG	1:n:578:TYR:HB2	2.33	0.69
1:M:485:CYS:SG	1:M:578:TYR:HB2	2.33	0.69
1:Y:383:ASN:OD1	1:Y:516:ARG:NH2	2.25	0.69
1:f:355:VAL:H	1:f:647:GLN:HE22	1.41	0.69
1:f:485:CYS:SG	1:f:578:TYR:HB2	2.33	0.69
1:h:485:CYS:SG	1:h:578:TYR:HB2	2.33	0.69
1:m:355:VAL:H	1:m:647:GLN:HE22	1.41	0.69
1:2:485:CYS:SG	1:2:578:TYR:HB2	2.33	0.69
1:4:355:VAL:H	1:4:647:GLN:HE22	1.41	0.69
1:F:226:SER:HG	1:F:319:ASN:H	1.41	0.68
1:J:485:CYS:SG	1:J:578:TYR:HB2	2.33	0.68
1:K:355:VAL:H	1:K:647:GLN:HE22	1.41	0.68
1:P:260:GLN:HG3	1:P:260:GLN:O	1.91	0.68
1:b:355:VAL:H	1:b:647:GLN:HE22	1.41	0.68
1:h:226:SER:HG	1:h:319:ASN:H	1.41	0.68
1:7:383:ASN:OD1	1:7:516:ARG:NH2	2.25	0.68
1:8:485:CYS:SG	1:8:578:TYR:HB2	2.33	0.68
1:B:383:ASN:OD1	1:B:516:ARG:NH2	2.25	0.68
1:Q:485:CYS:SG	1:Q:578:TYR:HB2	2.33	0.68
1:T:355:VAL:H	1:T:647:GLN:HE22	1.41	0.68
1:Z:485:CYS:SG	1:Z:578:TYR:HB2	2.33	0.68
1:b:485:CYS:SG	1:b:578:TYR:HB2	2.33	0.68
1:d:485:CYS:SG	1:d:578:TYR:HB2	2.33	0.68
1:k:355:VAL:H	1:k:647:GLN:HE22	1.41	0.68
1:6:485:CYS:SG	1:6:578:TYR:HB2	2.33	0.68
1:D:355:VAL:H	1:D:647:GLN:HE22	1.41	0.68
1:O:485:CYS:SG	1:O:578:TYR:HB2	2.33	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:485:CYS:SG	1:x:578:TYR:HB2	2.33	0.68
1:L:485:CYS:SG	1:L:578:TYR:HB2	2.33	0.68
1:R:485:CYS:SG	1:R:578:TYR:HB2	2.33	0.68
1:j:260:GLN:HG3	1:j:260:GLN:O	1.91	0.68
1:l:485:CYS:SG	1:l:578:TYR:HB2	2.33	0.68
1:m:485:CYS:SG	1:m:578:TYR:HB2	2.33	0.68
1:q:485:CYS:SG	1:q:578:TYR:HB2	2.33	0.68
1:1:383:ASN:OD1	1:1:516:ARG:NH2	2.25	0.68
1:B:485:CYS:SG	1:B:578:TYR:HB2	2.33	0.68
1:G:355:VAL:H	1:G:647:GLN:HE22	1.41	0.68
1:M:226:SER:HG	1:M:319:ASN:H	1.41	0.68
1:U:355:VAL:H	1:U:647:GLN:HE22	1.41	0.68
1:W:485:CYS:SG	1:W:578:TYR:HB2	2.33	0.68
1:n:355:VAL:H	1:n:647:GLN:HE22	1.41	0.68
1:u:355:VAL:H	1:u:647:GLN:HE22	1.41	0.68
1:1:485:CYS:SG	1:1:578:TYR:HB2	2.33	0.68
1:I:355:VAL:H	1:I:647:GLN:HE22	1.41	0.68
1:d:355:VAL:H	1:d:647:GLN:HE22	1.41	0.68
1:o:485:CYS:SG	1:o:578:TYR:HB2	2.33	0.68
1:t:355:VAL:H	1:t:647:GLN:HE22	1.41	0.68
1:x:279:THR:OG1	1:x:377:TYR:O	2.07	0.68
1:z:485:CYS:SG	1:z:578:TYR:HB2	2.33	0.68
1:7:355:VAL:H	1:7:647:GLN:HE22	1.41	0.68
1:S:485:CYS:SG	1:S:578:TYR:HB2	2.33	0.68
1:X:485:CYS:SG	1:X:578:TYR:HB2	2.33	0.68
1:Y:355:VAL:H	1:Y:647:GLN:HE22	1.41	0.68
1:s:355:VAL:H	1:s:647:GLN:HE22	1.41	0.68
1:H:355:VAL:H	1:H:647:GLN:HE22	1.41	0.68
1:T:485:CYS:SG	1:T:578:TYR:HB2	2.33	0.68
1:r:485:CYS:SG	1:r:578:TYR:HB2	2.33	0.68
1:3:485:CYS:SG	1:3:578:TYR:HB2	2.33	0.68
1:K:485:CYS:SG	1:K:578:TYR:HB2	2.33	0.68
1:a:485:CYS:SG	1:a:578:TYR:HB2	2.33	0.68
1:c:355:VAL:H	1:c:647:GLN:HE22	1.41	0.68
1:4:485:CYS:SG	1:4:578:TYR:HB2	2.33	0.68
1:5:355:VAL:H	1:5:647:GLN:HE22	1.41	0.68
1:Q:279:THR:OG1	1:Q:377:TYR:O	2.07	0.68
1:e:355:VAL:H	1:e:647:GLN:HE22	1.41	0.68
1:g:485:CYS:SG	1:g:578:TYR:HB2	2.33	0.68
1:C:485:CYS:SG	1:C:578:TYR:HB2	2.33	0.67
1:F:355:VAL:H	1:F:647:GLN:HE22	1.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:485:CYS:SG	1:N:578:TYR:HB2	2.33	0.67
1:O:279:THR:OG1	1:O:377:TYR:O	2.07	0.67
1:O:355:VAL:H	1:O:647:GLN:HE22	1.41	0.67
1:i:485:CYS:SG	1:i:578:TYR:HB2	2.33	0.67
1:l:279:THR:OG1	1:l:377:TYR:O	2.07	0.67
1:E:485:CYS:SG	1:E:578:TYR:HB2	2.33	0.67
1:t:279:THR:OG1	1:t:377:TYR:O	2.07	0.67
1:y:355:VAL:H	1:y:647:GLN:HE22	1.41	0.67
1:R:355:VAL:H	1:R:647:GLN:HE22	1.41	0.67
1:l:355:VAL:H	1:l:647:GLN:HE22	1.41	0.67
1:2:355:VAL:H	1:2:647:GLN:HE22	1.41	0.67
1:H:279:THR:OG1	1:H:377:TYR:O	2.07	0.67
1:k:226:SER:HG	1:k:319:ASN:H	1.41	0.67
1:w:485:CYS:SG	1:w:578:TYR:HB2	2.33	0.67
1:6:355:VAL:H	1:6:647:GLN:HE22	1.41	0.67
1:W:355:VAL:H	1:W:647:GLN:HE22	1.41	0.67
1:1:355:VAL:H	1:1:647:GLN:HE22	1.41	0.67
1:5:279:THR:OG1	1:5:377:TYR:O	2.07	0.67
1:G:279:THR:OG1	1:G:377:TYR:O	2.07	0.67
1:J:355:VAL:H	1:J:647:GLN:HE22	1.41	0.67
1:q:355:VAL:H	1:q:647:GLN:HE22	1.41	0.67
1:f:226:SER:HG	1:f:319:ASN:H	1.41	0.67
1:2:279:THR:OG1	1:2:377:TYR:O	2.07	0.67
1:B:355:VAL:H	1:B:647:GLN:HE22	1.41	0.67
1:x:355:VAL:H	1:x:647:GLN:HE22	1.41	0.67
1:D:226:SER:HG	1:D:319:ASN:H	1.41	0.67
1:X:355:VAL:H	1:X:647:GLN:HE22	1.41	0.67
1:o:355:VAL:H	1:o:647:GLN:HE22	1.41	0.67
1:r:355:VAL:H	1:r:647:GLN:HE22	1.41	0.67
1:Q:355:VAL:H	1:Q:647:GLN:HE22	1.41	0.66
1:a:226:SER:HG	1:a:319:ASN:H	1.43	0.66
1:D:499:ASN:HD22	1:P:591:ALA:HA	1.60	0.66
1:J:279:THR:OG1	1:J:377:TYR:O	2.07	0.66
1:S:355:VAL:H	1:S:647:GLN:HE22	1.41	0.66
1:3:355:VAL:H	1:3:647:GLN:HE22	1.41	0.66
1:V:355:VAL:H	1:V:647:GLN:HE22	1.41	0.66
1:a:355:VAL:H	1:a:647:GLN:HE22	1.41	0.66
1:p:355:VAL:H	1:p:647:GLN:HE22	1.41	0.66
1:z:355:VAL:H	1:z:647:GLN:HE22	1.41	0.66
1:Z:355:VAL:H	1:Z:647:GLN:HE22	1.41	0.66
1:3:226:SER:HG	1:3:319:ASN:H	1.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:355:VAL:H	1:L:647:GLN:HE22	1.41	0.66
1:8:355:VAL:H	1:8:647:GLN:HE22	1.41	0.66
1:N:591:ALA:HA	1:P:499:ASN:HD22	1.61	0.65
1:v:355:VAL:H	1:v:647:GLN:HE22	1.41	0.65
1:A:355:VAL:H	1:A:647:GLN:HE22	1.41	0.65
1:U:499:ASN:OD1	1:U:500:ASN:N	2.30	0.65
1:s:499:ASN:OD1	1:s:500:ASN:N	2.30	0.65
1:f:499:ASN:OD1	1:f:500:ASN:N	2.30	0.65
1:2:499:ASN:OD1	1:2:500:ASN:N	2.30	0.65
1:C:499:ASN:OD1	1:C:500:ASN:N	2.30	0.65
1:J:499:ASN:OD1	1:J:500:ASN:N	2.30	0.65
1:K:499:ASN:OD1	1:K:500:ASN:N	2.30	0.65
1:Y:499:ASN:OD1	1:Y:500:ASN:N	2.30	0.65
1:g:499:ASN:OD1	1:g:500:ASN:N	2.30	0.65
1:n:499:ASN:OD1	1:n:500:ASN:N	2.30	0.65
1:q:499:ASN:OD1	1:q:500:ASN:N	2.30	0.65
1:7:499:ASN:OD1	1:7:500:ASN:N	2.30	0.65
1:B:499:ASN:OD1	1:B:500:ASN:N	2.30	0.64
1:R:499:ASN:OD1	1:R:500:ASN:N	2.30	0.64
1:Z:499:ASN:OD1	1:Z:500:ASN:N	2.30	0.64
1:b:499:ASN:OD1	1:b:500:ASN:N	2.30	0.64
1:d:499:ASN:OD1	1:d:500:ASN:N	2.30	0.64
1:4:499:ASN:OD1	1:4:500:ASN:N	2.30	0.64
1:L:499:ASN:OD1	1:L:500:ASN:N	2.30	0.64
1:Q:499:ASN:OD1	1:Q:500:ASN:N	2.30	0.64
1:X:499:ASN:OD1	1:X:500:ASN:N	2.30	0.64
1:k:499:ASN:OD1	1:k:500:ASN:N	2.30	0.64
1:o:499:ASN:OD1	1:o:500:ASN:N	2.30	0.64
1:1:499:ASN:OD1	1:1:500:ASN:N	2.30	0.64
1:8:499:ASN:OD1	1:8:500:ASN:N	2.30	0.64
1:D:499:ASN:OD1	1:D:500:ASN:N	2.30	0.64
1:I:226:SER:HG	1:I:319:ASN:H	1.45	0.64
1:x:499:ASN:OD1	1:x:500:ASN:N	2.30	0.64
1:z:499:ASN:OD1	1:z:500:ASN:N	2.30	0.64
1:h:499:ASN:OD1	1:h:500:ASN:N	2.30	0.64
1:G:499:ASN:OD1	1:G:500:ASN:N	2.30	0.64
1:a:499:ASN:OD1	1:a:500:ASN:N	2.30	0.64
1:3:499:ASN:OD1	1:3:500:ASN:N	2.30	0.64
1:6:499:ASN:OD1	1:6:500:ASN:N	2.30	0.64
1:M:499:ASN:OD1	1:M:500:ASN:N	2.30	0.64
1:S:499:ASN:OD1	1:S:500:ASN:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:499:ASN:OD1	1:W:500:ASN:N	2.30	0.64
1:p:499:ASN:OD1	1:p:500:ASN:N	2.30	0.64
1:r:499:ASN:OD1	1:r:500:ASN:N	2.30	0.64
1:t:499:ASN:OD1	1:t:500:ASN:N	2.30	0.64
1:5:499:ASN:OD1	1:5:500:ASN:N	2.30	0.64
1:P:499:ASN:OD1	1:P:500:ASN:N	2.30	0.64
1:V:499:ASN:OD1	1:V:500:ASN:N	2.30	0.64
1:j:499:ASN:OD1	1:j:500:ASN:N	2.30	0.64
1:u:499:ASN:OD1	1:u:500:ASN:N	2.30	0.64
1:w:499:ASN:OD1	1:w:500:ASN:N	2.30	0.64
1:E:499:ASN:OD1	1:E:500:ASN:N	2.30	0.64
1:H:499:ASN:OD1	1:H:500:ASN:N	2.30	0.64
1:T:499:ASN:OD1	1:T:500:ASN:N	2.30	0.64
1:e:499:ASN:OD1	1:e:500:ASN:N	2.30	0.64
1:l:499:ASN:OD1	1:l:500:ASN:N	2.30	0.64
1:m:499:ASN:OD1	1:m:500:ASN:N	2.30	0.64
1:t:226:SER:HG	1:t:319:ASN:H	1.45	0.64
1:F:499:ASN:OD1	1:F:500:ASN:N	2.30	0.64
1:I:499:ASN:OD1	1:I:500:ASN:N	2.30	0.64
1:O:499:ASN:OD1	1:O:500:ASN:N	2.30	0.64
1:c:499:ASN:OD1	1:c:500:ASN:N	2.30	0.64
1:T:226:SER:HG	1:T:319:ASN:H	1.44	0.63
1:i:499:ASN:OD1	1:i:500:ASN:N	2.30	0.63
1:y:499:ASN:OD1	1:y:500:ASN:N	2.30	0.63
1:E:226:SER:HG	1:E:319:ASN:H	1.45	0.63
1:G:226:SER:HG	1:G:319:ASN:H	1.45	0.63
1:N:499:ASN:OD1	1:N:500:ASN:N	2.30	0.63
1:A:499:ASN:OD1	1:A:500:ASN:N	2.30	0.63
1:m:226:SER:HG	1:m:319:ASN:H	1.44	0.63
1:w:226:SER:HG	1:w:319:ASN:H	1.45	0.63
1:N:430:GLN:HE22	1:P:353:PRO:HB3	1.64	0.63
1:v:499:ASN:OD1	1:v:500:ASN:N	2.30	0.63
1:4:226:SER:HG	1:4:319:ASN:H	1.45	0.63
1:K:226:SER:HG	1:K:319:ASN:H	1.45	0.63
1:v:226:SER:HG	1:v:319:ASN:H	1.45	0.63
1:A:226:SER:HG	1:A:319:ASN:H	1.45	0.62
1:g:409:ASN:ND2	1:k:224:ASN:OD1	2.29	0.62
1:D:353:PRO:HB3	1:P:430:GLN:HE22	1.63	0.62
1:X:224:ASN:OD1	1:Y:409:ASN:ND2	2.29	0.62
1:d:356:LEU:HD13	1:d:647:GLN:HG2	1.82	0.62
1:k:356:LEU:HD13	1:k:647:GLN:HG2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:356:LEU:HD13	1:n:647:GLN:HG2	1.82	0.62
1:w:356:LEU:HD13	1:w:647:GLN:HG2	1.82	0.62
1:C:409:ASN:ND2	1:D:224:ASN:OD1	2.30	0.62
1:D:356:LEU:HD13	1:D:647:GLN:HG2	1.82	0.62
1:E:356:LEU:HD13	1:E:647:GLN:HG2	1.82	0.62
1:F:356:LEU:HD13	1:F:647:GLN:HG2	1.82	0.62
1:y:356:LEU:HD13	1:y:647:GLN:HG2	1.82	0.62
1:3:356:LEU:HD13	1:3:647:GLN:HG2	1.82	0.62
1:6:226:SER:HG	1:6:319:ASN:H	1.45	0.62
1:C:218:GLY:HA3	1:C:409:ASN:HD22	1.65	0.62
1:H:356:LEU:HD13	1:H:647:GLN:HG2	1.82	0.62
1:O:251:PRO:HB3	1:P:659:PRO:HG2	1.82	0.62
1:W:226:SER:HG	1:W:319:ASN:H	1.45	0.62
1:a:356:LEU:HD13	1:a:647:GLN:HG2	1.82	0.62
1:o:224:ASN:OD1	1:7:409:ASN:ND2	2.29	0.62
1:s:356:LEU:HD13	1:s:647:GLN:HG2	1.82	0.62
1:5:356:LEU:HD13	1:5:647:GLN:HG2	1.82	0.62
1:I:356:LEU:HD13	1:I:647:GLN:HG2	1.82	0.62
1:T:356:LEU:HD13	1:T:647:GLN:HG2	1.82	0.62
1:U:356:LEU:HD13	1:U:647:GLN:HG2	1.82	0.62
1:g:218:GLY:HA3	1:g:409:ASN:HD22	1.65	0.62
1:o:356:LEU:HD13	1:o:647:GLN:HG2	1.82	0.62
1:p:356:LEU:HD13	1:p:647:GLN:HG2	1.82	0.62
1:G:356:LEU:HD13	1:G:647:GLN:HG2	1.82	0.62
1:J:356:LEU:HD13	1:J:647:GLN:HG2	1.82	0.62
1:L:218:GLY:HA3	1:L:409:ASN:HD22	1.65	0.62
1:m:356:LEU:HD13	1:m:647:GLN:HG2	1.82	0.62
1:t:356:LEU:HD13	1:t:647:GLN:HG2	1.82	0.62
1:u:356:LEU:HD13	1:u:647:GLN:HG2	1.82	0.62
1:y:218:GLY:HA3	1:y:409:ASN:HD22	1.65	0.62
1:F:218:GLY:HA3	1:F:409:ASN:HD22	1.65	0.62
1:N:218:GLY:HA3	1:N:409:ASN:HD22	1.65	0.62
1:V:356:LEU:HD13	1:V:647:GLN:HG2	1.82	0.62
1:X:356:LEU:HD13	1:X:647:GLN:HG2	1.82	0.62
1:i:218:GLY:HA3	1:i:409:ASN:HD22	1.65	0.62
1:z:218:GLY:HA3	1:z:409:ASN:HD22	1.65	0.62
1:2:356:LEU:HD13	1:2:647:GLN:HG2	1.82	0.62
1:B:218:GLY:HA3	1:B:409:ASN:HD22	1.65	0.61
1:Y:226:SER:HG	1:Y:319:ASN:H	1.45	0.61
1:4:218:GLY:HA3	1:4:409:ASN:HD22	1.65	0.61
1:K:218:GLY:HA3	1:K:409:ASN:HD22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:283:TYR:HB3	1:M:649:LEU:HD23	1.83	0.61
1:V:218:GLY:HA3	1:V:409:ASN:HD22	1.65	0.61
1:h:224:ASN:OD1	1:i:409:ASN:ND2	2.29	0.61
1:1:218:GLY:HA3	1:1:409:ASN:HD22	1.65	0.61
1:7:218:GLY:HA3	1:7:409:ASN:HD22	1.65	0.61
1:E:218:GLY:HA3	1:E:409:ASN:HD22	1.65	0.61
1:Y:218:GLY:HA3	1:Y:409:ASN:HD22	1.65	0.61
1:h:283:TYR:HB3	1:h:649:LEU:HD23	1.83	0.61
1:p:218:GLY:HA3	1:p:409:ASN:HD22	1.65	0.61
1:s:218:GLY:HA3	1:s:409:ASN:HD22	1.65	0.61
1:y:564:GLU:OE2	1:y:614:TYR:OH	2.15	0.61
1:7:226:SER:HG	1:7:319:ASN:H	1.45	0.61
1:O:283:TYR:HB3	1:O:649:LEU:HD23	1.83	0.61
1:U:218:GLY:HA3	1:U:409:ASN:HD22	1.65	0.61
1:W:283:TYR:HB3	1:W:649:LEU:HD23	1.83	0.61
1:i:226:SER:HG	1:i:319:ASN:H	1.48	0.61
1:l:283:TYR:HB3	1:l:649:LEU:HD23	1.83	0.61
1:w:218:GLY:HA3	1:w:409:ASN:HD22	1.65	0.61
1:6:283:TYR:HB3	1:6:649:LEU:HD23	1.83	0.61
1:6:356:LEU:HD13	1:6:647:GLN:HG2	1.82	0.61
1:A:430:GLN:HE22	1:G:353:PRO:HB3	1.66	0.61
1:M:218:GLY:HA3	1:M:409:ASN:HD22	1.65	0.61
1:M:356:LEU:HD13	1:M:647:GLN:HG2	1.82	0.61
1:W:356:LEU:HD13	1:W:647:GLN:HG2	1.82	0.61
1:X:218:GLY:HA3	1:X:409:ASN:HD22	1.65	0.61
1:e:218:GLY:HA3	1:e:409:ASN:HD22	1.65	0.61
1:g:356:LEU:HD13	1:g:647:GLN:HG2	1.82	0.61
1:o:218:GLY:HA3	1:o:409:ASN:HD22	1.65	0.61
1:1:356:LEU:HD13	1:1:647:GLN:HG2	1.82	0.61
1:B:356:LEU:HD13	1:B:647:GLN:HG2	1.82	0.61
1:C:356:LEU:HD13	1:C:647:GLN:HG2	1.82	0.61
1:G:430:GLN:HE22	1:I:353:PRO:HB3	1.66	0.61
1:Q:283:TYR:HB3	1:Q:649:LEU:HD23	1.82	0.61
1:h:356:LEU:HD13	1:h:647:GLN:HG2	1.82	0.61
1:m:591:ALA:HA	1:n:499:ASN:HD22	1.66	0.61
1:t:430:GLN:HE22	1:u:353:PRO:HB3	1.66	0.61
1:v:356:LEU:HD13	1:v:647:GLN:HG2	1.82	0.61
1:8:356:LEU:HD13	1:8:647:GLN:HG2	1.82	0.61
1:A:218:GLY:HA3	1:A:409:ASN:HD22	1.65	0.61
1:A:356:LEU:HD13	1:A:647:GLN:HG2	1.82	0.61
1:C:591:ALA:HA	1:b:499:ASN:HD22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:353:PRO:HB3	1:Y:430:GLN:HE22	1.66	0.61
1:K:430:GLN:HE22	1:a:353:PRO:HB3	1.66	0.61
1:R:356:LEU:HD13	1:R:647:GLN:HG2	1.82	0.61
1:S:218:GLY:HA3	1:S:409:ASN:HD22	1.65	0.61
1:T:591:ALA:HA	1:d:499:ASN:HD22	1.66	0.61
1:c:218:GLY:HA3	1:c:409:ASN:HD22	1.65	0.61
1:c:353:PRO:HB3	1:p:430:GLN:HE22	1.66	0.61
1:f:499:ASN:HD22	1:g:591:ALA:HA	1.66	0.61
1:h:218:GLY:HA3	1:h:409:ASN:HD22	1.65	0.61
1:l:356:LEU:HD13	1:l:647:GLN:HG2	1.82	0.61
1:r:218:GLY:HA3	1:r:409:ASN:HD22	1.65	0.61
1:t:283:TYR:HB3	1:t:649:LEU:HD23	1.83	0.61
1:t:353:PRO:HB3	1:v:430:GLN:HE22	1.66	0.61
1:3:353:PRO:HB3	1:4:430:GLN:HE22	1.66	0.61
1:E:353:PRO:HB3	1:F:430:GLN:HE22	1.66	0.61
1:G:224:ASN:OD1	1:W:409:ASN:ND2	2.29	0.61
1:G:283:TYR:HB3	1:G:649:LEU:HD23	1.83	0.61
1:K:353:PRO:HB3	1:8:430:GLN:HE22	1.66	0.61
1:S:283:TYR:HB3	1:S:649:LEU:HD23	1.83	0.61
1:S:356:LEU:HD13	1:S:647:GLN:HG2	1.82	0.61
1:U:283:TYR:HB3	1:U:649:LEU:HD23	1.83	0.61
1:V:430:GLN:HE22	1:e:353:PRO:HB3	1.66	0.61
1:Z:356:LEU:HD13	1:Z:647:GLN:HG2	1.82	0.61
1:q:356:LEU:HD13	1:q:647:GLN:HG2	1.82	0.61
1:v:218:GLY:HA3	1:v:409:ASN:HD22	1.65	0.61
1:z:356:LEU:HD13	1:z:647:GLN:HG2	1.82	0.61
1:5:283:TYR:HB3	1:5:649:LEU:HD23	1.83	0.61
1:5:353:PRO:HB3	1:7:430:GLN:HE22	1.66	0.61
1:C:612:ASP:OD1	1:C:613:VAL:N	2.34	0.61
1:H:283:TYR:HB3	1:H:649:LEU:HD23	1.83	0.61
1:L:356:LEU:HD13	1:L:647:GLN:HG2	1.82	0.61
1:O:612:ASP:OD1	1:O:613:VAL:N	2.34	0.61
1:V:283:TYR:HB3	1:V:649:LEU:HD23	1.82	0.61
1:g:612:ASP:OD1	1:g:613:VAL:N	2.34	0.61
1:r:283:TYR:HB3	1:r:649:LEU:HD23	1.83	0.61
1:r:356:LEU:HD13	1:r:647:GLN:HG2	1.82	0.61
1:s:283:TYR:HB3	1:s:649:LEU:HD23	1.83	0.61
1:t:218:GLY:HA3	1:t:409:ASN:HD22	1.65	0.61
1:w:353:PRO:HB3	1:y:430:GLN:HE22	1.66	0.61
1:w:430:GLN:HE22	1:x:353:PRO:HB3	1.66	0.61
1:x:283:TYR:HB3	1:x:649:LEU:HD23	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:218:GLY:HA3	1:3:409:ASN:HD22	1.65	0.61
1:3:224:ASN:OD1	1:8:409:ASN:ND2	2.29	0.61
1:B:430:GLN:HE22	1:J:353:PRO:HB3	1.66	0.61
1:E:430:GLN:HE22	1:Q:353:PRO:HB3	1.66	0.61
1:F:612:ASP:OD1	1:F:613:VAL:N	2.34	0.61
1:O:356:LEU:HD13	1:O:647:GLN:HG2	1.82	0.61
1:T:283:TYR:HB3	1:T:649:LEU:HD23	1.82	0.61
1:V:353:PRO:HB3	1:X:430:GLN:HE22	1.66	0.61
1:Z:409:ASN:ND2	1:a:224:ASN:OD1	2.29	0.61
1:Z:430:GLN:HE22	1:4:353:PRO:HB3	1.66	0.61
1:c:283:TYR:HB3	1:c:649:LEU:HD23	1.83	0.61
1:i:353:PRO:HB3	1:k:430:GLN:HE22	1.66	0.61
1:j:283:TYR:HB3	1:j:649:LEU:HD23	1.83	0.61
1:l:218:GLY:HA3	1:l:409:ASN:HD22	1.65	0.61
1:l:612:ASP:OD1	1:l:613:VAL:N	2.34	0.61
1:m:283:TYR:HB3	1:m:649:LEU:HD23	1.82	0.61
1:o:430:GLN:HE22	1:p:353:PRO:HB3	1.66	0.61
1:o:612:ASP:OD1	1:o:613:VAL:N	2.34	0.61
1:p:283:TYR:HB3	1:p:649:LEU:HD23	1.82	0.61
1:q:218:GLY:HA3	1:q:409:ASN:HD22	1.65	0.61
1:q:353:PRO:HB3	1:s:430:GLN:HE22	1.66	0.61
1:y:612:ASP:OD1	1:y:613:VAL:N	2.34	0.61
1:1:283:TYR:HB3	1:1:649:LEU:HD23	1.83	0.61
1:1:430:GLN:HE22	1:2:353:PRO:HB3	1.66	0.61
1:B:283:TYR:HB3	1:B:649:LEU:HD23	1.83	0.60
1:G:218:GLY:HA3	1:G:409:ASN:HD22	1.65	0.60
1:K:612:ASP:OD1	1:K:613:VAL:N	2.34	0.60
1:N:356:LEU:HD13	1:N:647:GLN:HG2	1.82	0.60
1:O:218:GLY:HA3	1:O:409:ASN:HD22	1.65	0.60
1:R:353:PRO:HB3	1:U:430:GLN:HE22	1.66	0.60
1:S:430:GLN:HE22	1:U:353:PRO:HB3	1.66	0.60
1:T:218:GLY:HA3	1:T:409:ASN:HD22	1.65	0.60
1:V:591:ALA:HA	1:e:499:ASN:HD22	1.66	0.60
1:X:283:TYR:HB3	1:X:649:LEU:HD23	1.83	0.60
1:X:612:ASP:OD1	1:X:613:VAL:N	2.34	0.60
1:a:218:GLY:HA3	1:a:409:ASN:HD22	1.65	0.60
1:c:612:ASP:OD1	1:c:613:VAL:N	2.34	0.60
1:e:224:ASN:OD1	1:h:409:ASN:ND2	2.29	0.60
1:f:283:TYR:HB3	1:f:649:LEU:HD23	1.83	0.60
1:t:224:ASN:OD1	1:6:409:ASN:ND2	2.29	0.60
1:x:612:ASP:OD1	1:x:613:VAL:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:612:ASP:OD1	1:3:613:VAL:N	2.34	0.60
1:7:612:ASP:OD1	1:7:613:VAL:N	2.34	0.60
1:A:612:ASP:OD1	1:A:613:VAL:N	2.34	0.60
1:B:353:PRO:HB3	1:L:430:GLN:HE22	1.66	0.60
1:F:224:ASN:OD1	1:G:409:ASN:ND2	2.29	0.60
1:F:499:ASN:HD22	1:Q:591:ALA:HA	1.66	0.60
1:M:499:ASN:HD22	1:b:591:ALA:HA	1.67	0.60
1:P:283:TYR:HB3	1:P:649:LEU:HD23	1.83	0.60
1:Q:356:LEU:HD13	1:Q:647:GLN:HG2	1.82	0.60
1:Q:612:ASP:OD1	1:Q:613:VAL:N	2.34	0.60
1:R:218:GLY:HA3	1:R:409:ASN:HD22	1.65	0.60
1:Y:612:ASP:OD1	1:Y:613:VAL:N	2.34	0.60
1:a:612:ASP:OD1	1:a:613:VAL:N	2.34	0.60
1:b:218:GLY:HA3	1:b:409:ASN:HD22	1.65	0.60
1:c:499:ASN:HD22	1:p:591:ALA:HA	1.66	0.60
1:d:591:ALA:HA	1:l:499:ASN:HD22	1.66	0.60
1:e:612:ASP:OD1	1:e:613:VAL:N	2.34	0.60
1:i:356:LEU:HD13	1:i:647:GLN:HG2	1.82	0.60
1:j:356:LEU:HD13	1:j:647:GLN:HG2	1.82	0.60
1:o:283:TYR:HB3	1:o:649:LEU:HD23	1.83	0.60
1:r:430:GLN:HE22	1:s:353:PRO:HB3	1.66	0.60
1:t:612:ASP:OD1	1:t:613:VAL:N	2.34	0.60
1:x:356:LEU:HD13	1:x:647:GLN:HG2	1.82	0.60
1:4:612:ASP:OD1	1:4:613:VAL:N	2.34	0.60
1:C:499:ASN:HD22	1:M:591:ALA:HA	1.66	0.60
1:E:499:ASN:HD22	1:F:591:ALA:HA	1.66	0.60
1:E:591:ALA:HA	1:Q:499:ASN:HD22	1.66	0.60
1:G:612:ASP:OD1	1:G:613:VAL:N	2.34	0.60
1:K:499:ASN:HD22	1:8:591:ALA:HA	1.66	0.60
1:K:591:ALA:HA	1:a:499:ASN:HD22	1.66	0.60
1:M:224:ASN:OD1	1:N:409:ASN:ND2	2.29	0.60
1:M:409:ASN:ND2	1:c:224:ASN:OD1	2.29	0.60
1:P:356:LEU:HD13	1:P:647:GLN:HG2	1.82	0.60
1:Z:218:GLY:HA3	1:Z:409:ASN:HD22	1.65	0.60
1:Z:353:PRO:HB3	1:3:430:GLN:HE22	1.66	0.60
1:a:283:TYR:HB3	1:a:649:LEU:HD23	1.83	0.60
1:b:283:TYR:HB3	1:b:649:LEU:HD23	1.83	0.60
1:c:356:LEU:HD13	1:c:647:GLN:HG2	1.82	0.60
1:d:612:ASP:OD1	1:d:613:VAL:N	2.34	0.60
1:e:283:TYR:HB3	1:e:649:LEU:HD23	1.83	0.60
1:f:591:ALA:HA	1:h:499:ASN:HD22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:499:ASN:HD22	1:h:591:ALA:HA	1.66	0.60
1:j:218:GLY:HA3	1:j:409:ASN:HD22	1.65	0.60
1:j:591:ALA:HA	1:k:499:ASN:HD22	1.66	0.60
1:j:659:PRO:HG2	1:l:251:PRO:HB3	1.84	0.60
1:k:218:GLY:HA3	1:k:409:ASN:HD22	1.65	0.60
1:m:218:GLY:HA3	1:m:409:ASN:HD22	1.65	0.60
1:n:612:ASP:OD1	1:n:613:VAL:N	2.34	0.60
1:v:612:ASP:OD1	1:v:613:VAL:N	2.34	0.60
1:C:659:PRO:HG2	1:D:251:PRO:HB3	1.84	0.60
1:F:353:PRO:HB3	1:Q:430:GLN:HE22	1.66	0.60
1:F:409:ASN:ND2	1:R:224:ASN:OD1	2.29	0.60
1:K:356:LEU:HD13	1:K:647:GLN:HG2	1.82	0.60
1:O:499:ASN:HD22	1:n:591:ALA:HA	1.66	0.60
1:S:612:ASP:OD1	1:S:613:VAL:N	2.34	0.60
1:V:236:LEU:HD11	1:V:239[B]:ARG:HH11	1.67	0.60
1:V:499:ASN:HD22	1:X:591:ALA:HA	1.66	0.60
1:X:499:ASN:HD22	1:e:591:ALA:HA	1.67	0.60
1:c:591:ALA:HA	1:o:499:ASN:HD22	1.67	0.60
1:e:356:LEU:HD13	1:e:647:GLN:HG2	1.82	0.60
1:f:356:LEU:HD13	1:f:647:GLN:HG2	1.82	0.60
1:g:224:ASN:OD1	1:l:409:ASN:ND2	2.30	0.60
1:m:612:ASP:OD1	1:m:613:VAL:N	2.34	0.60
1:o:591:ALA:HA	1:p:499:ASN:HD22	1.66	0.60
1:p:236:LEU:HD11	1:p:239[B]:ARG:HH11	1.67	0.60
1:r:612:ASP:OD1	1:r:613:VAL:N	2.34	0.60
1:w:230:HIS:O	1:w:245:THR:OG1	2.19	0.60
1:w:591:ALA:HA	1:x:499:ASN:HD22	1.66	0.60
1:x:218:GLY:HA3	1:x:409:ASN:HD22	1.65	0.60
1:x:591:ALA:HA	1:y:499:ASN:HD22	1.66	0.60
1:z:430:GLN:HE22	1:l:353:PRO:HB3	1.66	0.60
1:2:612:ASP:OD1	1:2:613:VAL:N	2.34	0.60
1:3:499:ASN:HD22	1:4:591:ALA:HA	1.66	0.60
1:A:591:ALA:HA	1:G:499:ASN:HD22	1.66	0.60
1:B:499:ASN:HD22	1:L:591:ALA:HA	1.66	0.60
1:E:230:HIS:O	1:E:245:THR:OG1	2.19	0.60
1:I:218:GLY:HA3	1:I:409:ASN:HD22	1.65	0.60
1:I:283:TYR:HB3	1:I:649:LEU:HD23	1.83	0.60
1:J:612:ASP:OD1	1:J:613:VAL:N	2.34	0.60
1:L:236:LEU:HD11	1:L:239[B]:ARG:HH11	1.67	0.60
1:O:353:PRO:HB3	1:n:430:GLN:HE22	1.66	0.60
1:Q:218:GLY:HA3	1:Q:409:ASN:HD22	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:591:ALA:HA	1:U:499:ASN:HD22	1.66	0.60
1:T:612:ASP:OD1	1:T:613:VAL:N	2.34	0.60
1:V:612:ASP:OD1	1:V:613:VAL:N	2.34	0.60
1:W:591:ALA:HA	1:Y:499:ASN:HD22	1.67	0.60
1:Y:356:LEU:HD13	1:Y:647:GLN:HG2	1.82	0.60
1:Z:591:ALA:HA	1:4:499:ASN:HD22	1.66	0.60
1:a:430:GLN:HE22	1:8:353:PRO:HB3	1.66	0.60
1:b:356:LEU:HD13	1:b:647:GLN:HG2	1.82	0.60
1:f:218:GLY:HA3	1:f:409:ASN:HD22	1.65	0.60
1:i:430:GLN:HE22	1:j:353:PRO:HB3	1.66	0.60
1:r:591:ALA:HA	1:s:499:ASN:HD22	1.66	0.60
1:u:236:LEU:HD11	1:u:239[B]:ARG:HH11	1.67	0.60
1:w:499:ASN:HD22	1:y:591:ALA:HA	1.67	0.60
1:z:591:ALA:HA	1:1:499:ASN:HD22	1.66	0.60
1:3:283:TYR:HB3	1:3:649:LEU:HD23	1.83	0.60
1:5:236:LEU:HD11	1:5:239[B]:ARG:HH11	1.67	0.60
1:6:218:GLY:HA3	1:6:409:ASN:HD22	1.65	0.60
1:6:591:ALA:HA	1:7:499:ASN:HD22	1.67	0.60
1:8:218:GLY:HA3	1:8:409:ASN:HD22	1.65	0.60
1:8:612:ASP:OD1	1:8:613:VAL:N	2.34	0.60
1:A:659:PRO:HG2	1:B:251:PRO:HB3	1.84	0.60
1:D:218:GLY:HA3	1:D:409:ASN:HD22	1.65	0.60
1:D:659:PRO:HG2	1:E:251:PRO:HB3	1.84	0.60
1:H:236:LEU:HD11	1:H:239[B]:ARG:HH11	1.67	0.60
1:I:236:LEU:HD11	1:I:239[B]:ARG:HH11	1.67	0.60
1:J:236:LEU:HD11	1:J:239[B]:ARG:HH11	1.67	0.60
1:K:283:TYR:HB3	1:K:649:LEU:HD23	1.83	0.60
1:P:218:GLY:HA3	1:P:409:ASN:HD22	1.65	0.60
1:T:499:ASN:HD22	1:l:591:ALA:HA	1.66	0.60
1:Z:612:ASP:OD1	1:Z:613:VAL:N	2.34	0.60
1:d:430:GLN:HE22	1:l:353:PRO:HB3	1.66	0.60
1:f:430:GLN:HE22	1:h:353:PRO:HB3	1.66	0.60
1:p:612:ASP:OD1	1:p:613:VAL:N	2.34	0.60
1:q:499:ASN:HD22	1:s:591:ALA:HA	1.66	0.60
1:t:409:ASN:ND2	1:y:224:ASN:OD1	2.29	0.60
1:t:499:ASN:HD22	1:v:591:ALA:HA	1.66	0.60
1:x:430:GLN:HE22	1:y:353:PRO:HB3	1.66	0.60
1:z:236:LEU:HD11	1:z:239[B]:ARG:HH11	1.67	0.60
1:1:591:ALA:HA	1:2:499:ASN:HD22	1.66	0.60
1:2:236:LEU:HD11	1:2:239[B]:ARG:HH11	1.67	0.60
1:4:356:LEU:HD13	1:4:647:GLN:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:591:ALA:HA	1:J:499:ASN:HD22	1.66	0.60
1:C:430:GLN:HE22	1:b:353:PRO:HB3	1.66	0.60
1:D:430:GLN:HE22	1:N:353:PRO:HB3	1.66	0.60
1:H:218:GLY:HA3	1:H:409:ASN:HD22	1.65	0.60
1:H:659:PRO:HG2	1:Z:251:PRO:HB3	1.84	0.60
1:J:283:TYR:HB3	1:J:649:LEU:HD23	1.83	0.60
1:L:612:ASP:OD1	1:L:613:VAL:N	2.34	0.60
1:M:353:PRO:HB3	1:b:430:GLN:HE22	1.66	0.60
1:N:283:TYR:HB3	1:N:649:LEU:HD23	1.83	0.60
1:O:591:ALA:HA	1:m:499:ASN:HD22	1.66	0.60
1:P:236:LEU:HD11	1:P:239[B]:ARG:HH11	1.67	0.60
1:Q:236:LEU:HD11	1:Q:239[B]:ARG:HH11	1.67	0.60
1:U:612:ASP:OD1	1:U:613:VAL:N	2.34	0.60
1:f:353:PRO:HB3	1:g:430:GLN:HE22	1.66	0.60
1:j:409:ASN:ND2	1:l:224:ASN:OD1	2.29	0.60
1:q:224:ASN:OD1	1:y:409:ASN:ND2	2.30	0.60
1:s:236:LEU:HD11	1:s:239[B]:ARG:HH11	1.67	0.60
1:t:591:ALA:HA	1:u:499:ASN:HD22	1.66	0.60
1:u:218:GLY:HA3	1:u:409:ASN:HD22	1.65	0.60
1:u:283:TYR:HB3	1:u:649:LEU:HD23	1.83	0.60
1:7:356:LEU:HD13	1:7:647:GLN:HG2	1.82	0.60
1:8:230:HIS:O	1:8:245:THR:OG1	2.19	0.60
1:E:283:TYR:HB3	1:E:649:LEU:HD23	1.83	0.60
1:G:251:PRO:HB3	1:W:659:PRO:HG2	1.84	0.60
1:K:236:LEU:HD11	1:K:239[B]:ARG:HH11	1.67	0.60
1:L:256:HIS:CD2	1:L:654:PRO:HG3	2.37	0.60
1:N:251:PRO:HB3	1:m:659:PRO:HG2	1.84	0.60
1:P:612:ASP:OD1	1:P:613:VAL:N	2.34	0.60
1:R:283:TYR:HB3	1:R:649:LEU:HD23	1.83	0.60
1:T:251:PRO:HB3	1:U:659:PRO:HG2	1.84	0.60
1:U:236:LEU:HD11	1:U:239[B]:ARG:HH11	1.67	0.60
1:W:218:GLY:HA3	1:W:409:ASN:HD22	1.65	0.60
1:W:430:GLN:HE22	1:Y:353:PRO:HB3	1.66	0.60
1:Z:283:TYR:HB3	1:Z:649:LEU:HD23	1.83	0.60
1:b:612:ASP:OD1	1:b:613:VAL:N	2.34	0.60
1:e:236:LEU:HD11	1:e:239[B]:ARG:HH11	1.67	0.60
1:f:612:ASP:OD1	1:f:613:VAL:N	2.34	0.60
1:g:659:PRO:HG2	1:k:251:PRO:HB3	1.84	0.60
1:i:283:TYR:HB3	1:i:649:LEU:HD23	1.83	0.60
1:j:251:PRO:HB3	1:x:659:PRO:HG2	1.84	0.60
1:j:612:ASP:OD1	1:j:613:VAL:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:409:ASN:ND2	1:6:224:ASN:OD1	2.29	0.60
1:r:659:PRO:HG2	1:x:251:PRO:HB3	1.84	0.60
1:t:251:PRO:HB3	1:6:659:PRO:HG2	1.84	0.60
1:w:283:TYR:HB3	1:w:649:LEU:HD23	1.83	0.60
1:z:256:HIS:CD2	1:z:654:PRO:HG3	2.37	0.60
1:z:612:ASP:OD1	1:z:613:VAL:N	2.34	0.60
1:2:283:TYR:HB3	1:2:649:LEU:HD23	1.83	0.60
1:4:236:LEU:HD11	1:4:239[B]:ARG:HH11	1.67	0.60
1:4:283:TYR:HB3	1:4:649:LEU:HD23	1.83	0.60
1:5:659:PRO:HG2	1:8:251:PRO:HB3	1.84	0.60
1:7:283:TYR:HB3	1:7:649:LEU:HD23	1.83	0.60
1:D:283:TYR:HB3	1:D:649:LEU:HD23	1.83	0.60
1:G:236:LEU:HD11	1:G:239[B]:ARG:HH11	1.67	0.60
1:H:591:ALA:HA	1:W:499:ASN:HD22	1.66	0.60
1:O:430:GLN:HE22	1:m:353:PRO:HB3	1.66	0.60
1:R:499:ASN:HD22	1:U:591:ALA:HA	1.66	0.60
1:S:226:SER:HG	1:S:319:ASN:H	1.50	0.60
1:T:224:ASN:OD1	1:U:409:ASN:ND2	2.29	0.60
1:W:256:HIS:CD2	1:W:654:PRO:HG3	2.37	0.60
1:Z:230:HIS:O	1:Z:245:THR:OG1	2.19	0.60
1:c:236:LEU:HD11	1:c:239[B]:ARG:HH11	1.67	0.60
1:m:224:ASN:OD1	1:s:409:ASN:ND2	2.29	0.60
1:q:283:TYR:HB3	1:q:649:LEU:HD23	1.83	0.60
1:s:612:ASP:OD1	1:s:613:VAL:N	2.34	0.60
1:t:236:LEU:HD11	1:t:239[B]:ARG:HH11	1.67	0.60
1:u:591:ALA:HA	1:v:499:ASN:HD22	1.66	0.60
1:x:236:LEU:HD11	1:x:239[B]:ARG:HH11	1.67	0.60
1:5:218:GLY:HA3	1:5:409:ASN:HD22	1.65	0.60
1:6:256:HIS:CD2	1:6:654:PRO:HG3	2.37	0.60
1:8:283:TYR:HB3	1:8:649:LEU:HD23	1.83	0.60
1:D:236:LEU:HD11	1:D:239[B]:ARG:HH11	1.67	0.60
1:E:612:ASP:OD1	1:E:613:VAL:N	2.34	0.60
1:F:283:TYR:HB3	1:F:649:LEU:HD23	1.83	0.60
1:G:591:ALA:HA	1:I:499:ASN:HD22	1.66	0.60
1:H:612:ASP:OD1	1:H:613:VAL:N	2.34	0.60
1:J:218:GLY:HA3	1:J:409:ASN:HD22	1.65	0.60
1:J:430:GLN:HE22	1:L:353:PRO:HB3	1.66	0.60
1:O:256:HIS:CD2	1:O:654:PRO:HG3	2.37	0.60
1:Q:251:PRO:HB3	1:S:659:PRO:HG2	1.84	0.60
1:R:612:ASP:OD1	1:R:613:VAL:N	2.34	0.60
1:S:251:PRO:HB3	1:d:659:PRO:HG2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:236:LEU:HD11	1:W:239[B]:ARG:HH11	1.67	0.60
1:Y:283:TYR:HB3	1:Y:649:LEU:HD23	1.83	0.60
1:Z:256:HIS:CD2	1:Z:654:PRO:HG3	2.37	0.60
1:c:430:GLN:HE22	1:o:353:PRO:HB3	1.66	0.60
1:d:236:LEU:HD11	1:d:239[B]:ARG:HH11	1.67	0.60
1:j:236:LEU:HD11	1:j:239[B]:ARG:HH11	1.67	0.60
1:k:283:TYR:HB3	1:k:649:LEU:HD23	1.83	0.60
1:y:283:TYR:HB3	1:y:649:LEU:HD23	1.83	0.60
1:2:218:GLY:HA3	1:2:409:ASN:HD22	1.65	0.60
1:5:591:ALA:HA	1:6:499:ASN:HD22	1.66	0.60
1:6:430:GLN:HE22	1:7:353:PRO:HB3	1.66	0.60
1:8:256:HIS:CD2	1:8:654:PRO:HG3	2.37	0.60
1:H:224:ASN:OD1	1:I:409:ASN:ND2	2.29	0.59
1:H:499:ASN:HD22	1:Y:591:ALA:HA	1.66	0.59
1:J:591:ALA:HA	1:L:499:ASN:HD22	1.66	0.59
1:M:256:HIS:CD2	1:M:654:PRO:HG3	2.37	0.59
1:N:612:ASP:OD1	1:N:613:VAL:N	2.34	0.59
1:R:659:PRO:HG2	1:V:251:PRO:HB3	1.84	0.59
1:T:353:PRO:HB3	1:l:430:GLN:HE22	1.66	0.59
1:W:612:ASP:OD1	1:W:613:VAL:N	2.34	0.59
1:Z:236:LEU:HD11	1:Z:239[B]:ARG:HH11	1.67	0.59
1:Z:659:PRO:HG2	1:a:251:PRO:HB3	1.84	0.59
1:b:236:LEU:HD11	1:b:239[B]:ARG:HH11	1.67	0.59
1:f:256:HIS:CD2	1:f:654:PRO:HG3	2.37	0.59
1:h:256:HIS:CD2	1:h:654:PRO:HG3	2.37	0.59
1:i:612:ASP:OD1	1:i:613:VAL:N	2.34	0.59
1:k:236:LEU:HD11	1:k:239[B]:ARG:HH11	1.67	0.59
1:l:256:HIS:CD2	1:l:654:PRO:HG3	2.37	0.59
1:m:251:PRO:HB3	1:s:659:PRO:HG2	1.84	0.59
1:n:236:LEU:HD11	1:n:239[B]:ARG:HH11	1.67	0.59
1:n:659:PRO:HG2	1:r:251:PRO:HB3	1.84	0.59
1:q:612:ASP:OD1	1:q:613:VAL:N	2.34	0.59
1:r:226:SER:HG	1:r:319:ASN:H	1.50	0.59
1:3:251:PRO:HB3	1:8:659:PRO:HG2	1.84	0.59
1:5:612:ASP:OD1	1:5:613:VAL:N	2.34	0.59
1:A:499:ASN:HD22	1:I:591:ALA:HA	1.66	0.59
1:B:612:ASP:OD1	1:B:613:VAL:N	2.34	0.59
1:T:236:LEU:HD11	1:T:239[B]:ARG:HH11	1.67	0.59
1:T:256:HIS:CD2	1:T:654:PRO:HG3	2.37	0.59
1:X:353:PRO:HB3	1:e:430:GLN:HE22	1.66	0.59
1:b:256:HIS:CD2	1:b:654:PRO:HG3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:256:HIS:CD2	1:c:654:PRO:HG3	2.37	0.59
1:e:256:HIS:CD2	1:e:654:PRO:HG3	2.37	0.59
1:f:236:LEU:HD11	1:f:239[B]:ARG:HH11	1.67	0.59
1:i:256:HIS:CD2	1:i:654:PRO:HG3	2.37	0.59
1:i:591:ALA:HA	1:j:499:ASN:HD22	1.67	0.59
1:k:659:PRO:HG2	1:w:251:PRO:HB3	1.84	0.59
1:m:236:LEU:HD11	1:m:239[B]:ARG:HH11	1.67	0.59
1:p:251:PRO:HB3	1:q:659:PRO:HG2	1.84	0.59
1:v:659:PRO:HG2	1:l:251:PRO:HB3	1.84	0.59
1:w:612:ASP:OD1	1:w:613:VAL:N	2.34	0.59
1:y:236:LEU:HD11	1:y:239[B]:ARG:HH11	1.67	0.59
1:z:353:PRO:HB3	1:2:430:GLN:HE22	1.66	0.59
1:1:612:ASP:OD1	1:1:613:VAL:N	2.34	0.59
1:6:236:LEU:HD11	1:6:239[B]:ARG:HH11	1.67	0.59
1:6:612:ASP:OD1	1:6:613:VAL:N	2.34	0.59
1:A:283:TYR:HB3	1:A:649:LEU:HD23	1.82	0.59
1:C:353:PRO:HB3	1:M:430:GLN:HE22	1.66	0.59
1:D:612:ASP:OD1	1:D:613:VAL:N	2.34	0.59
1:M:236:LEU:HD11	1:M:239[B]:ARG:HH11	1.67	0.59
1:M:659:PRO:HG2	1:c:251:PRO:HB3	1.84	0.59
1:N:256:HIS:CD2	1:N:654:PRO:HG3	2.37	0.59
1:N:474:ALA:H	1:P:272:ASN:ND2	2.00	0.59
1:T:659:PRO:HG2	1:i:251:PRO:HB3	1.84	0.59
1:V:256:HIS:CD2	1:V:654:PRO:HG3	2.37	0.59
1:V:659:PRO:HG2	1:W:251:PRO:HB3	1.84	0.59
1:Z:564:GLU:OE2	1:Z:614:TYR:OH	2.15	0.59
1:h:251:PRO:HB3	1:i:659:PRO:HG2	1.83	0.59
1:m:256:HIS:CD2	1:m:654:PRO:HG3	2.37	0.59
1:p:256:HIS:CD2	1:p:654:PRO:HG3	2.37	0.59
1:r:256:HIS:CD2	1:r:654:PRO:HG3	2.37	0.59
1:v:224:ASN:OD1	1:w:409:ASN:ND2	2.29	0.59
1:z:499:ASN:HD22	1:2:591:ALA:HA	1.66	0.59
1:1:236:LEU:HD11	1:1:239[B]:ARG:HH11	1.67	0.59
1:3:236:LEU:HD11	1:3:239[B]:ARG:HH11	1.67	0.59
1:5:499:ASN:HD22	1:7:591:ALA:HA	1.66	0.59
1:8:236:LEU:HD11	1:8:239[B]:ARG:HH11	1.67	0.59
1:F:236:LEU:HD11	1:F:239[B]:ARG:HH11	1.67	0.59
1:F:659:PRO:HG2	1:R:251:PRO:HB3	1.84	0.59
1:H:430:GLN:HE22	1:W:353:PRO:HB3	1.66	0.59
1:J:256:HIS:CD2	1:J:654:PRO:HG3	2.37	0.59
1:K:256:HIS:CD2	1:K:654:PRO:HG3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:283:TYR:HB3	1:L:649:LEU:HD23	1.83	0.59
1:M:251:PRO:HB3	1:N:659:PRO:HG2	1.83	0.59
1:R:430:GLN:HE22	1:S:353:PRO:HB3	1.66	0.59
1:S:256:HIS:CD2	1:S:654:PRO:HG3	2.37	0.59
1:T:430:GLN:HE22	1:d:353:PRO:HB3	1.66	0.59
1:e:251:PRO:HB3	1:h:659:PRO:HG2	1.84	0.59
1:h:236:LEU:HD11	1:h:239[B]:ARG:HH11	1.67	0.59
1:k:612:ASP:OD1	1:k:613:VAL:N	2.34	0.59
1:m:430:GLN:HE22	1:n:353:PRO:HB3	1.66	0.59
1:n:218:GLY:HA3	1:n:409:ASN:HD22	1.65	0.59
1:q:430:GLN:HE22	1:r:353:PRO:HB3	1.66	0.59
1:u:409:ASN:ND2	1:5:224:ASN:OD1	2.29	0.59
1:u:612:ASP:OD1	1:u:613:VAL:N	2.34	0.59
1:8:564:GLU:OE2	1:8:614:TYR:OH	2.15	0.59
1:A:236:LEU:HD11	1:A:239[B]:ARG:HH11	1.67	0.59
1:B:236:LEU:HD11	1:B:239[B]:ARG:HH11	1.67	0.59
1:E:236:LEU:HD11	1:E:239[B]:ARG:HH11	1.67	0.59
1:I:612:ASP:OD1	1:I:613:VAL:N	2.34	0.59
1:U:256:HIS:CD2	1:U:654:PRO:HG3	2.37	0.59
1:a:236:LEU:HD11	1:a:239[B]:ARG:HH11	1.67	0.59
1:d:218:GLY:HA3	1:d:409:ASN:HD22	1.65	0.59
1:g:353:PRO:HB3	1:h:430:GLN:HE22	1.66	0.59
1:n:283:TYR:HB3	1:n:649:LEU:HD23	1.83	0.59
1:p:659:PRO:HG2	1:6:251:PRO:HB3	1.84	0.59
1:q:251:PRO:HB3	1:y:659:PRO:HG2	1.84	0.59
1:v:236:LEU:HD11	1:v:239[B]:ARG:HH11	1.67	0.59
1:w:236:LEU:HD11	1:w:239[B]:ARG:HH11	1.67	0.59
1:z:283:TYR:HB3	1:z:649:LEU:HD23	1.83	0.59
1:2:256:HIS:CD2	1:2:654:PRO:HG3	2.37	0.59
1:4:256:HIS:CD2	1:4:654:PRO:HG3	2.37	0.59
1:5:430:GLN:HE22	1:6:353:PRO:HB3	1.66	0.59
1:A:224:ASN:OD1	1:E:409:ASN:ND2	2.30	0.59
1:A:260:GLN:OE1	1:A:275:PHE:CE1	2.56	0.59
1:A:353:PRO:HB3	1:I:430:GLN:HE22	1.66	0.59
1:C:283:TYR:HB3	1:C:649:LEU:HD23	1.83	0.59
1:K:659:PRO:HG2	1:7:251:PRO:HB3	1.84	0.59
1:R:236:LEU:HD11	1:R:239[B]:ARG:HH11	1.67	0.59
1:S:236:LEU:HD11	1:S:239[B]:ARG:HH11	1.67	0.59
1:Y:224:ASN:OD1	1:4:409:ASN:ND2	2.30	0.59
1:c:260:GLN:OE1	1:c:275:PHE:CE1	2.56	0.59
1:e:260:GLN:OE1	1:e:275:PHE:CE1	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:260:GLN:OE1	1:k:275:PHE:CE1	2.56	0.59
1:n:256:HIS:CD2	1:n:654:PRO:HG3	2.37	0.59
1:n:260:GLN:OE1	1:n:275:PHE:CE1	2.56	0.59
1:q:236:LEU:HD11	1:q:239[B]:ARG:HH11	1.67	0.59
1:s:256:HIS:CD2	1:s:654:PRO:HG3	2.37	0.59
1:u:430:GLN:HE22	1:v:353:PRO:HB3	1.66	0.59
1:v:260:GLN:OE1	1:v:275:PHE:CE1	2.56	0.59
1:v:283:TYR:HB3	1:v:649:LEU:HD23	1.83	0.59
1:3:256:HIS:CD2	1:3:654:PRO:HG3	2.37	0.59
1:D:260:GLN:OE1	1:D:275:PHE:CE1	2.56	0.59
1:I:251:PRO:HB3	1:J:659:PRO:HG2	1.84	0.59
1:I:256:HIS:CD2	1:I:654:PRO:HG3	2.37	0.59
1:J:251:PRO:HB3	1:a:659:PRO:HG2	1.84	0.59
1:K:409:ASN:ND2	1:7:224:ASN:OD1	2.30	0.59
1:N:236:LEU:HD11	1:N:239[B]:ARG:HH11	1.67	0.59
1:P:256:HIS:CD2	1:P:654:PRO:HG3	2.37	0.59
1:R:591:ALA:HA	1:S:499:ASN:HD22	1.66	0.59
1:V:260:GLN:OE1	1:V:275:PHE:CE1	2.56	0.59
1:Y:251:PRO:HB3	1:4:659:PRO:HG2	1.84	0.59
1:d:256:HIS:CD2	1:d:654:PRO:HG3	2.37	0.59
1:d:260:GLN:OE1	1:d:275:PHE:CE1	2.56	0.59
1:d:283:TYR:HB3	1:d:649:LEU:HD23	1.83	0.59
1:i:236:LEU:HD11	1:i:239[B]:ARG:HH11	1.67	0.59
1:j:430:GLN:HE22	1:k:353:PRO:HB3	1.66	0.59
1:p:260:GLN:OE1	1:p:275:PHE:CE1	2.56	0.59
1:q:256:HIS:CD2	1:q:654:PRO:HG3	2.37	0.59
1:r:236:LEU:HD11	1:r:239[B]:ARG:HH11	1.67	0.59
1:D:256:HIS:CD2	1:D:654:PRO:HG3	2.37	0.59
1:H:251:PRO:HB3	1:I:659:PRO:HG2	1.84	0.59
1:K:251:PRO:HB3	1:L:659:PRO:HG2	1.84	0.59
1:O:224:ASN:OD1	1:P:409:ASN:ND2	2.30	0.59
1:R:256:HIS:CD2	1:R:654:PRO:HG3	2.37	0.59
1:S:224:ASN:OD1	1:d:409:ASN:ND2	2.29	0.59
1:U:260:GLN:OE1	1:U:275:PHE:CE1	2.56	0.59
1:W:260:GLN:OE1	1:W:275:PHE:CE1	2.56	0.59
1:Y:260:GLN:OE1	1:Y:275:PHE:CE1	2.56	0.59
1:Z:260:GLN:OE1	1:Z:275:PHE:CE1	2.56	0.59
1:a:256:HIS:CD2	1:a:654:PRO:HG3	2.37	0.59
1:g:283:TYR:HB3	1:g:649:LEU:HD23	1.83	0.59
1:j:256:HIS:CD2	1:j:654:PRO:HG3	2.37	0.59
1:j:260:GLN:OE1	1:j:275:PHE:CE1	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:256:HIS:CD2	1:k:654:PRO:HG3	2.37	0.59
1:q:591:ALA:HA	1:r:499:ASN:HD22	1.66	0.59
1:s:260:GLN:OE1	1:s:275:PHE:CE1	2.56	0.59
1:u:256:HIS:CD2	1:u:654:PRO:HG3	2.37	0.59
1:u:659:PRO:HG2	1:5:251:PRO:HB3	1.84	0.59
1:z:659:PRO:HG2	1:4:251:PRO:HB3	1.84	0.59
1:2:251:PRO:HB3	1:3:659:PRO:HG2	1.84	0.59
1:5:256:HIS:CD2	1:5:654:PRO:HG3	2.37	0.59
1:6:260:GLN:OE1	1:6:275:PHE:CE1	2.56	0.59
1:7:260:GLN:OE1	1:7:275:PHE:CE1	2.56	0.59
1:B:260:GLN:OE1	1:B:275:PHE:CE1	2.56	0.59
1:H:256:HIS:CD2	1:H:654:PRO:HG3	2.37	0.59
1:P:260:GLN:OE1	1:P:275:PHE:CE1	2.56	0.59
1:Q:256:HIS:CD2	1:Q:654:PRO:HG3	2.37	0.59
1:b:253:TYR:OH	1:b:374:ILE:O	2.21	0.59
1:i:499:ASN:HD22	1:k:591:ALA:HA	1.67	0.59
1:x:256:HIS:CD2	1:x:654:PRO:HG3	2.37	0.59
1:1:260:GLN:OE1	1:1:275:PHE:CE1	2.56	0.59
1:8:260:GLN:OE1	1:8:275:PHE:CE1	2.56	0.59
1:B:659:PRO:HG2	1:C:251:PRO:HB3	1.84	0.59
1:I:253:TYR:OH	1:I:374:ILE:O	2.21	0.59
1:K:260:GLN:OE1	1:K:275:PHE:CE1	2.56	0.59
1:X:253:TYR:OH	1:X:374:ILE:O	2.21	0.59
1:f:253:TYR:OH	1:f:374:ILE:O	2.21	0.59
1:h:612:ASP:OD1	1:h:613:VAL:N	2.34	0.59
1:n:409:ASN:ND2	1:r:224:ASN:OD1	2.29	0.59
1:o:253:TYR:OH	1:o:374:ILE:O	2.21	0.59
1:u:251:PRO:HB3	1:2:659:PRO:HG2	1.84	0.59
1:u:253:TYR:OH	1:u:374:ILE:O	2.21	0.59
1:A:409:ASN:ND2	1:B:224:ASN:OD1	2.29	0.58
1:D:253:TYR:OH	1:D:374:ILE:O	2.21	0.58
1:D:591:ALA:HA	1:N:499:ASN:HD22	1.68	0.58
1:E:253:TYR:OH	1:E:374:ILE:O	2.21	0.58
1:M:612:ASP:OD1	1:M:613:VAL:N	2.34	0.58
1:Y:256:HIS:CD2	1:Y:654:PRO:HG3	2.37	0.58
1:Z:499:ASN:HD22	1:3:591:ALA:HA	1.66	0.58
1:a:591:ALA:HA	1:8:499:ASN:HD22	1.66	0.58
1:d:230:HIS:O	1:d:245:THR:OG1	2.19	0.58
1:g:236:LEU:HD11	1:g:239[B]:ARG:HH11	1.67	0.58
1:g:260:GLN:OE1	1:g:275:PHE:CE1	2.56	0.58
1:k:253:TYR:OH	1:k:374:ILE:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:253:TYR:OH	1:w:374:ILE:O	2.21	0.58
1:2:260:GLN:OE1	1:2:275:PHE:CE1	2.56	0.58
1:4:260:GLN:OE1	1:4:275:PHE:CE1	2.56	0.58
1:B:253:TYR:OH	1:B:374:ILE:O	2.21	0.58
1:C:260:GLN:OE1	1:C:275:PHE:CE1	2.56	0.58
1:E:256:HIS:CD2	1:E:654:PRO:HG3	2.37	0.58
1:F:260:GLN:OE1	1:F:275:PHE:CE1	2.56	0.58
1:J:260:GLN:OE1	1:J:275:PHE:CE1	2.56	0.58
1:N:260:GLN:OE1	1:N:275:PHE:CE1	2.56	0.58
1:Q:260:GLN:OE1	1:Q:275:PHE:CE1	2.56	0.58
1:X:659:PRO:HG2	1:f:251:PRO:HB3	1.84	0.58
1:b:251:PRO:HB3	1:o:659:PRO:HG2	1.84	0.58
1:m:260:GLN:OE1	1:m:275:PHE:CE1	2.56	0.58
1:o:236:LEU:HD11	1:o:239[B]:ARG:HH11	1.67	0.58
1:t:256:HIS:CD2	1:t:654:PRO:HG3	2.37	0.58
1:v:251:PRO:HB3	1:w:659:PRO:HG2	1.84	0.58
1:w:256:HIS:CD2	1:w:654:PRO:HG3	2.37	0.58
1:y:260:GLN:OE1	1:y:275:PHE:CE1	2.56	0.58
1:5:260:GLN:OE1	1:5:275:PHE:CE1	2.56	0.58
1:7:256:HIS:CD2	1:7:654:PRO:HG3	2.37	0.58
1:C:236:LEU:HD11	1:C:239[B]:ARG:HH11	1.67	0.58
1:G:256:HIS:CD2	1:G:654:PRO:HG3	2.37	0.58
1:H:260:GLN:OE1	1:H:275:PHE:CE1	2.56	0.58
1:T:260:GLN:OE1	1:T:275:PHE:CE1	2.56	0.58
1:g:251:PRO:HB3	1:l:659:PRO:HG2	1.84	0.58
1:i:260:GLN:OE1	1:i:275:PHE:CE1	2.56	0.58
1:q:230:HIS:O	1:q:245:THR:OG1	2.19	0.58
1:y:256:HIS:CD2	1:y:654:PRO:HG3	2.37	0.58
1:1:253:TYR:OH	1:1:374:ILE:O	2.21	0.58
1:B:256:HIS:CD2	1:B:654:PRO:HG3	2.37	0.58
1:G:253:TYR:OH	1:G:374:ILE:O	2.21	0.58
1:R:260:GLN:OE1	1:R:275:PHE:CE1	2.56	0.58
1:S:260:GLN:OE1	1:S:275:PHE:CE1	2.56	0.58
1:X:236:LEU:HD11	1:X:239[B]:ARG:HH11	1.67	0.58
1:b:260:GLN:OE1	1:b:275:PHE:CE1	2.56	0.58
1:r:260:GLN:OE1	1:r:275:PHE:CE1	2.56	0.58
1:u:230:HIS:O	1:u:245:THR:OG1	2.19	0.58
1:x:260:GLN:OE1	1:x:275:PHE:CE1	2.56	0.58
1:F:256:HIS:CD2	1:F:654:PRO:HG3	2.37	0.58
1:I:230:HIS:O	1:I:245:THR:OG1	2.19	0.58
1:M:260:GLN:OE1	1:M:275:PHE:CE1	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:260:GLN:OE1	1:h:275:PHE:CE1	2.56	0.58
1:l:260:GLN:OE1	1:l:275:PHE:CE1	2.56	0.58
1:q:260:GLN:OE1	1:q:275:PHE:CE1	2.56	0.58
1:t:659:PRO:HG2	1:y:251:PRO:HB3	1.84	0.58
1:v:256:HIS:CD2	1:v:654:PRO:HG3	2.37	0.58
1:1:256:HIS:CD2	1:1:654:PRO:HG3	2.37	0.58
1:A:256:HIS:CD2	1:A:654:PRO:HG3	2.37	0.58
1:D:409:ASN:ND2	1:E:224:ASN:OD1	2.29	0.58
1:F:251:PRO:HB3	1:G:659:PRO:HG2	1.84	0.58
1:K:564:GLU:OE2	1:K:614:TYR:OH	2.15	0.58
1:O:260:GLN:OE1	1:O:275:PHE:CE1	2.56	0.58
1:R:230:HIS:O	1:R:245:THR:OG1	2.19	0.58
1:U:224:ASN:OD1	1:e:409:ASN:ND2	2.30	0.58
1:U:251:PRO:HB3	1:e:659:PRO:HG2	1.84	0.58
1:X:260:GLN:OE1	1:X:275:PHE:CE1	2.56	0.58
1:f:260:GLN:OE1	1:f:275:PHE:CE1	2.56	0.58
1:o:251:PRO:HB3	1:7:659:PRO:HG2	1.83	0.58
1:y:226:SER:HG	1:y:319:ASN:H	1.52	0.58
1:A:251:PRO:HB3	1:E:659:PRO:HG2	1.85	0.58
1:N:224:ASN:OD1	1:m:409:ASN:ND2	2.30	0.58
1:N:230:HIS:O	1:N:245:THR:OG1	2.19	0.58
1:R:349:GLU:OE1	1:R:351:GLN:NE2	2.37	0.58
1:Y:349:GLU:OE1	1:Y:351:GLN:NE2	2.37	0.58
1:i:474:ALA:H	1:j:272:ASN:ND2	2.01	0.58
1:o:260:GLN:OE1	1:o:275:PHE:CE1	2.56	0.58
1:p:253:TYR:OH	1:p:374:ILE:O	2.21	0.58
1:q:349:GLU:OE1	1:q:351:GLN:NE2	2.37	0.58
1:s:564:GLU:OE2	1:s:614:TYR:OH	2.15	0.58
1:u:260:GLN:OE1	1:u:275:PHE:CE1	2.56	0.58
1:v:409:ASN:ND2	1:1:224:ASN:OD1	2.29	0.58
1:3:260:GLN:OE1	1:3:275:PHE:CE1	2.56	0.58
1:3:349:GLU:OE1	1:3:351:GLN:NE2	2.37	0.58
1:I:260:GLN:OE1	1:I:275:PHE:CE1	2.56	0.58
1:N:349:GLU:OE1	1:N:351:GLN:NE2	2.37	0.58
1:T:253:TYR:OH	1:T:374:ILE:O	2.21	0.58
1:V:253:TYR:OH	1:V:374:ILE:O	2.21	0.58
1:X:349:GLU:OE1	1:X:351:GLN:NE2	2.37	0.58
1:a:349:GLU:OE1	1:a:351:GLN:NE2	2.37	0.58
1:c:659:PRO:HG2	1:s:251:PRO:HB3	1.84	0.58
1:i:349:GLU:OE1	1:i:351:GLN:NE2	2.37	0.58
1:k:349:GLU:OE1	1:k:351:GLN:NE2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:253:TYR:OH	1:m:374:ILE:O	2.21	0.58
1:n:349:GLU:OE1	1:n:351:GLN:NE2	2.37	0.58
1:n:564:GLU:OE2	1:n:614:TYR:OH	2.15	0.58
1:o:256:HIS:CD2	1:o:654:PRO:HG3	2.37	0.58
1:o:349:GLU:OE1	1:o:351:GLN:NE2	2.37	0.58
1:t:260:GLN:OE1	1:t:275:PHE:CE1	2.56	0.58
1:z:260:GLN:OE1	1:z:275:PHE:CE1	2.56	0.58
1:C:256:HIS:CD2	1:C:654:PRO:HG3	2.37	0.58
1:D:349:GLU:OE1	1:D:351:GLN:NE2	2.37	0.58
1:G:260:GLN:OE1	1:G:275:PHE:CE1	2.56	0.58
1:H:349:GLU:OE1	1:H:351:GLN:NE2	2.37	0.58
1:K:349:GLU:OE1	1:K:351:GLN:NE2	2.37	0.58
1:Q:349:GLU:OE1	1:Q:351:GLN:NE2	2.37	0.58
1:U:564:GLU:OE2	1:U:614:TYR:OH	2.15	0.58
1:X:251:PRO:HB3	1:Y:659:PRO:HG2	1.83	0.58
1:X:256:HIS:CD2	1:X:654:PRO:HG3	2.37	0.58
1:Y:236:LEU:HD11	1:Y:239[B]:ARG:HH11	1.67	0.58
1:a:260:GLN:OE1	1:a:275:PHE:CE1	2.56	0.58
1:d:349:GLU:OE1	1:d:351:GLN:NE2	2.37	0.58
1:g:256:HIS:CD2	1:g:654:PRO:HG3	2.37	0.58
1:i:230:HIS:O	1:i:245:THR:OG1	2.19	0.58
1:5:349:GLU:OE1	1:5:351:GLN:NE2	2.37	0.58
1:7:253:TYR:OH	1:7:374:ILE:O	2.21	0.58
1:7:349:GLU:OE1	1:7:351:GLN:NE2	2.37	0.58
1:L:260:GLN:OE1	1:L:275:PHE:CE1	2.56	0.58
1:M:230:HIS:O	1:M:245:THR:OG1	2.19	0.58
1:O:236:LEU:HD11	1:O:239[B]:ARG:HH11	1.67	0.58
1:V:409:ASN:ND2	1:W:224:ASN:OD1	2.29	0.58
1:c:409:ASN:ND2	1:s:224:ASN:OD1	2.30	0.58
1:f:659:PRO:HG2	1:z:251:PRO:HB3	1.84	0.58
1:l:236:LEU:HD11	1:l:239[B]:ARG:HH11	1.67	0.58
1:l:349:GLU:OE1	1:l:351:GLN:NE2	2.37	0.58
1:t:349:GLU:OE1	1:t:351:GLN:NE2	2.37	0.58
1:v:253:TYR:OH	1:v:374:ILE:O	2.21	0.58
1:4:349:GLU:OE1	1:4:351:GLN:NE2	2.37	0.58
1:4:564:GLU:OE2	1:4:614:TYR:OH	2.15	0.58
1:7:236:LEU:HD11	1:7:239[B]:ARG:HH11	1.67	0.58
1:C:320:ILE:HD13	1:C:342:ILE:HD11	1.86	0.57
1:C:349:GLU:OE1	1:C:351:GLN:NE2	2.37	0.57
1:G:320:ILE:HD13	1:G:342:ILE:HD11	1.86	0.57
1:G:349:GLU:OE1	1:G:351:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:320:ILE:HD13	1:M:342:ILE:HD11	1.86	0.57
1:O:349:GLU:OE1	1:O:351:GLN:NE2	2.37	0.57
1:O:659:PRO:HG2	1:d:251:PRO:HB3	1.84	0.57
1:Q:320:ILE:HD13	1:Q:342:ILE:HD11	1.86	0.57
1:d:564:GLU:OE2	1:d:614:TYR:OH	2.15	0.57
1:g:320:ILE:HD13	1:g:342:ILE:HD11	1.86	0.57
1:h:230:HIS:O	1:h:245:THR:OG1	2.19	0.57
1:l:659:PRO:HG2	1:n:251:PRO:HB3	1.84	0.57
1:t:320:ILE:HD13	1:t:342:ILE:HD11	1.86	0.57
1:x:349:GLU:OE1	1:x:351:GLN:NE2	2.37	0.57
1:z:320:ILE:HD13	1:z:342:ILE:HD11	1.86	0.57
1:6:349:GLU:OE1	1:6:351:GLN:NE2	2.37	0.57
1:A:253:TYR:OH	1:A:374:ILE:O	2.21	0.57
1:A:320:ILE:HD13	1:A:342:ILE:HD11	1.86	0.57
1:F:349:GLU:OE1	1:F:351:GLN:NE2	2.37	0.57
1:L:251:PRO:HB3	1:b:659:PRO:HG2	1.84	0.57
1:L:320:ILE:HD13	1:L:342:ILE:HD11	1.86	0.57
1:T:349:GLU:OE1	1:T:351:GLN:NE2	2.37	0.57
1:U:320:ILE:HD13	1:U:342:ILE:HD11	1.86	0.57
1:W:320:ILE:HD13	1:W:342:ILE:HD11	1.86	0.57
1:W:349:GLU:OE1	1:W:351:GLN:NE2	2.37	0.57
1:c:320:ILE:HD13	1:c:342:ILE:HD11	1.86	0.57
1:e:320:ILE:HD13	1:e:342:ILE:HD11	1.86	0.57
1:g:349:GLU:OE1	1:g:351:GLN:NE2	2.37	0.57
1:h:320:ILE:HD13	1:h:342:ILE:HD11	1.86	0.57
1:j:230:HIS:O	1:j:245:THR:OG1	2.19	0.57
1:j:349:GLU:OE1	1:j:351:GLN:NE2	2.37	0.57
1:m:349:GLU:OE1	1:m:351:GLN:NE2	2.37	0.57
1:u:349:GLU:OE1	1:u:351:GLN:NE2	2.37	0.57
1:w:260:GLN:OE1	1:w:275:PHE:CE1	2.56	0.57
1:y:320:ILE:HD13	1:y:342:ILE:HD11	1.86	0.57
1:6:320:ILE:HD13	1:6:342:ILE:HD11	1.86	0.57
1:B:349:GLU:OE1	1:B:351:GLN:NE2	2.37	0.57
1:D:320:ILE:HD13	1:D:342:ILE:HD11	1.86	0.57
1:F:320:ILE:HD13	1:F:342:ILE:HD11	1.86	0.57
1:I:349:GLU:OE1	1:I:351:GLN:NE2	2.37	0.57
1:P:230:HIS:O	1:P:245:THR:OG1	2.19	0.57
1:P:349:GLU:OE1	1:P:351:GLN:NE2	2.37	0.57
1:T:409:ASN:ND2	1:i:224:ASN:OD1	2.30	0.57
1:c:349:GLU:OE1	1:c:351:GLN:NE2	2.37	0.57
1:g:253:TYR:OH	1:g:374:ILE:O	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:320:ILE:HD13	1:i:342:ILE:HD11	1.86	0.57
1:k:320:ILE:HD13	1:k:342:ILE:HD11	1.86	0.57
1:s:320:ILE:HD13	1:s:342:ILE:HD11	1.86	0.57
1:v:320:ILE:HD13	1:v:342:ILE:HD11	1.86	0.57
1:v:349:GLU:OE1	1:v:351:GLN:NE2	2.37	0.57
1:x:320:ILE:HD13	1:x:342:ILE:HD11	1.86	0.57
1:y:349:GLU:OE1	1:y:351:GLN:NE2	2.37	0.57
1:1:474:ALA:H	1:2:272:ASN:ND2	2.03	0.57
1:A:349:GLU:OE1	1:A:351:GLN:NE2	2.37	0.57
1:C:253:TYR:OH	1:C:374:ILE:O	2.21	0.57
1:D:272:ASN:ND2	1:P:474:ALA:H	2.02	0.57
1:E:260:GLN:OE1	1:E:275:PHE:CE1	2.56	0.57
1:E:349:GLU:OE1	1:E:351:GLN:NE2	2.37	0.57
1:J:349:GLU:OE1	1:J:351:GLN:NE2	2.37	0.57
1:N:320:ILE:HD13	1:N:342:ILE:HD11	1.86	0.57
1:P:320:ILE:HD13	1:P:342:ILE:HD11	1.86	0.57
1:e:349:GLU:OE1	1:e:351:GLN:NE2	2.37	0.57
1:r:349:GLU:OE1	1:r:351:GLN:NE2	2.37	0.57
1:w:349:GLU:OE1	1:w:351:GLN:NE2	2.37	0.57
1:z:474:ALA:H	1:1:272:ASN:ND2	2.03	0.57
1:1:320:ILE:HD13	1:1:342:ILE:HD11	1.86	0.57
1:1:349:GLU:OE1	1:1:351:GLN:NE2	2.37	0.57
1:2:349:GLU:OE1	1:2:351:GLN:NE2	2.37	0.57
1:B:272:ASN:ND2	1:L:474:ALA:H	2.03	0.57
1:B:320:ILE:HD13	1:B:342:ILE:HD11	1.86	0.57
1:B:474:ALA:H	1:J:272:ASN:ND2	2.03	0.57
1:B:703:THR:OG1	1:I:703:THR:OG1	2.23	0.57
1:L:224:ASN:OD1	1:b:409:ASN:ND2	2.30	0.57
1:R:474:ALA:H	1:S:272:ASN:ND2	2.03	0.57
1:S:349:GLU:OE1	1:S:351:GLN:NE2	2.37	0.57
1:U:703:THR:OG1	1:V:703:THR:OG1	2.23	0.57
1:d:703:THR:OG1	1:n:703:THR:OG1	2.23	0.57
1:f:409:ASN:ND2	1:z:224:ASN:OD1	2.30	0.57
1:j:320:ILE:HD13	1:j:342:ILE:HD11	1.86	0.57
1:k:409:ASN:ND2	1:w:224:ASN:OD1	2.30	0.57
1:q:474:ALA:H	1:r:272:ASN:ND2	2.03	0.57
1:3:272:ASN:ND2	1:4:474:ALA:H	2.03	0.57
1:8:349:GLU:OE1	1:8:351:GLN:NE2	2.37	0.57
1:F:272:ASN:ND2	1:Q:474:ALA:H	2.03	0.57
1:J:320:ILE:HD13	1:J:342:ILE:HD11	1.87	0.57
1:K:474:ALA:H	1:a:272:ASN:ND2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:349:GLU:OE1	1:Z:351:GLN:NE2	2.37	0.57
1:d:226:SER:HG	1:d:319:ASN:H	1.49	0.57
1:p:703:THR:OG1	1:s:703:THR:OG1	2.23	0.57
1:s:349:GLU:OE1	1:s:351:GLN:NE2	2.37	0.57
1:y:253:TYR:OH	1:y:374:ILE:O	2.21	0.57
1:2:320:ILE:HD13	1:2:342:ILE:HD11	1.87	0.57
1:A:474:ALA:H	1:G:272:ASN:ND2	2.03	0.57
1:F:230:HIS:O	1:F:245:THR:OG1	2.19	0.57
1:F:253:TYR:OH	1:F:374:ILE:O	2.21	0.57
1:J:224:ASN:OD1	1:a:409:ASN:ND2	2.29	0.57
1:J:230:HIS:O	1:J:245:THR:OG1	2.19	0.57
1:M:349:GLU:OE1	1:M:351:GLN:NE2	2.37	0.57
1:Q:355:VAL:H	1:Q:647:GLN:NE2	2.03	0.57
1:U:349:GLU:OE1	1:U:351:GLN:NE2	2.37	0.57
1:W:253:TYR:OH	1:W:374:ILE:O	2.21	0.57
1:Y:230:HIS:O	1:Y:245:THR:OG1	2.19	0.57
1:d:320:ILE:HD13	1:d:342:ILE:HD11	1.86	0.57
1:h:349:GLU:OE1	1:h:351:GLN:NE2	2.37	0.57
1:j:224:ASN:OD1	1:x:409:ASN:ND2	2.29	0.57
1:n:320:ILE:HD13	1:n:342:ILE:HD11	1.86	0.57
1:p:349:GLU:OE1	1:p:351:GLN:NE2	2.37	0.57
1:x:474:ALA:H	1:y:272:ASN:ND2	2.03	0.57
1:y:230:HIS:O	1:y:245:THR:OG1	2.19	0.57
1:L:349:GLU:OE1	1:L:351:GLN:NE2	2.37	0.57
1:P:224:ASN:OD1	1:Q:409:ASN:ND2	2.30	0.57
1:P:355:VAL:H	1:P:647:GLN:NE2	2.03	0.57
1:V:349:GLU:OE1	1:V:351:GLN:NE2	2.37	0.57
1:h:703:THR:OG1	1:k:703:THR:OG1	2.22	0.57
1:j:703:THR:OG1	1:w:703:THR:OG1	2.22	0.57
1:q:355:VAL:H	1:q:647:GLN:NE2	2.03	0.57
1:x:355:VAL:H	1:x:647:GLN:NE2	2.03	0.57
1:3:320:ILE:HD13	1:3:342:ILE:HD11	1.86	0.57
1:6:253:TYR:OH	1:6:374:ILE:O	2.21	0.57
1:E:320:ILE:HD13	1:E:342:ILE:HD11	1.86	0.57
1:I:320:ILE:HD13	1:I:342:ILE:HD11	1.86	0.57
1:J:703:THR:OG1	1:K:703:THR:OG1	2.23	0.57
1:O:272:ASN:ND2	1:n:474:ALA:H	2.03	0.57
1:R:355:VAL:H	1:R:647:GLN:NE2	2.03	0.57
1:T:474:ALA:H	1:d:272:ASN:ND2	2.03	0.57
1:a:320:ILE:HD13	1:a:342:ILE:HD11	1.86	0.57
1:a:355:VAL:H	1:a:647:GLN:NE2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:474:ALA:H	1:l:272:ASN:ND2	2.03	0.57
1:f:349:GLU:OE1	1:f:351:GLN:NE2	2.37	0.57
1:j:355:VAL:H	1:j:647:GLN:NE2	2.03	0.57
1:o:355:VAL:H	1:o:647:GLN:NE2	2.03	0.57
1:2:224:ASN:OD1	1:3:409:ASN:ND2	2.29	0.57
1:3:253:TYR:OH	1:3:374:ILE:O	2.21	0.57
1:3:355:VAL:H	1:3:647:GLN:NE2	2.03	0.57
1:I:224:ASN:OD1	1:J:409:ASN:ND2	2.29	0.57
1:K:355:VAL:H	1:K:647:GLN:NE2	2.03	0.57
1:M:272:ASN:ND2	1:b:474:ALA:H	2.03	0.57
1:T:272:ASN:ND2	1:l:474:ALA:H	2.03	0.57
1:V:474:ALA:H	1:e:272:ASN:ND2	2.03	0.57
1:Z:272:ASN:ND2	1:3:474:ALA:H	2.03	0.57
1:Z:320:ILE:HD13	1:Z:342:ILE:HD11	1.86	0.57
1:a:253:TYR:OH	1:a:374:ILE:O	2.21	0.57
1:a:474:ALA:H	1:8:272:ASN:ND2	2.03	0.57
1:b:349:GLU:OE1	1:b:351:GLN:NE2	2.37	0.57
1:i:272:ASN:ND2	1:k:474:ALA:H	2.03	0.57
1:m:474:ALA:H	1:n:272:ASN:ND2	2.03	0.57
1:q:703:THR:OG1	1:x:703:THR:OG1	2.23	0.57
1:t:272:ASN:ND2	1:v:474:ALA:H	2.03	0.57
1:u:320:ILE:HD13	1:u:342:ILE:HD11	1.86	0.57
1:w:320:ILE:HD13	1:w:342:ILE:HD11	1.86	0.57
1:z:349:GLU:OE1	1:z:351:GLN:NE2	2.37	0.57
1:2:230:HIS:O	1:2:245:THR:OG1	2.19	0.57
1:2:703:THR:OG1	1:4:703:THR:OG1	2.23	0.57
1:4:355:VAL:H	1:4:647:GLN:NE2	2.03	0.57
1:8:320:ILE:HD13	1:8:342:ILE:HD11	1.86	0.57
1:B:355:VAL:H	1:B:647:GLN:NE2	2.03	0.56
1:D:474:ALA:H	1:N:272:ASN:ND2	2.03	0.56
1:O:474:ALA:H	1:m:272:ASN:ND2	2.03	0.56
1:T:320:ILE:HD13	1:T:342:ILE:HD11	1.86	0.56
1:V:355:VAL:H	1:V:647:GLN:NE2	2.03	0.56
1:X:355:VAL:H	1:X:647:GLN:NE2	2.03	0.56
1:c:272:ASN:ND2	1:p:474:ALA:H	2.03	0.56
1:d:253:TYR:OH	1:d:374:ILE:O	2.21	0.56
1:f:474:ALA:H	1:h:272:ASN:ND2	2.03	0.56
1:g:272:ASN:ND2	1:h:474:ALA:H	2.03	0.56
1:l:320:ILE:HD13	1:l:342:ILE:HD11	1.86	0.56
1:m:320:ILE:HD13	1:m:342:ILE:HD11	1.86	0.56
1:p:355:VAL:H	1:p:647:GLN:NE2	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:355:VAL:H	1:1:647:GLN:NE2	2.03	0.56
1:5:253:TYR:OH	1:5:374:ILE:O	2.21	0.56
1:5:409:ASN:ND2	1:8:224:ASN:OD1	2.29	0.56
1:B:409:ASN:ND2	1:C:224:ASN:OD1	2.30	0.56
1:C:272:ASN:ND2	1:M:474:ALA:H	2.03	0.56
1:O:253:TYR:OH	1:O:374:ILE:O	2.21	0.56
1:b:355:VAL:H	1:b:647:GLN:NE2	2.03	0.56
1:l:253:TYR:OH	1:l:374:ILE:O	2.21	0.56
1:z:230:HIS:O	1:z:245:THR:OG1	2.19	0.56
1:C:474:ALA:H	1:b:272:ASN:ND2	2.03	0.56
1:D:703:THR:OG1	1:M:703:THR:OG1	2.22	0.56
1:E:272:ASN:ND2	1:F:474:ALA:H	2.03	0.56
1:H:253:TYR:OH	1:H:374:ILE:O	2.21	0.56
1:H:409:ASN:ND2	1:Z:224:ASN:OD1	2.29	0.56
1:L:230:HIS:O	1:L:245:THR:OG1	2.19	0.56
1:N:591:ALA:HA	1:P:499:ASN:ND2	2.19	0.56
1:O:320:ILE:HD13	1:O:342:ILE:HD11	1.86	0.56
1:Q:703:THR:OG1	1:R:703:THR:OG1	2.23	0.56
1:S:320:ILE:HD13	1:S:342:ILE:HD11	1.86	0.56
1:W:355:VAL:H	1:W:647:GLN:NE2	2.03	0.56
1:c:355:VAL:H	1:c:647:GLN:NE2	2.03	0.56
1:e:355:VAL:H	1:e:647:GLN:NE2	2.03	0.56
1:f:355:VAL:H	1:f:647:GLN:NE2	2.03	0.56
1:h:253:TYR:OH	1:h:374:ILE:O	2.21	0.56
1:h:355:VAL:H	1:h:647:GLN:NE2	2.03	0.56
1:j:474:ALA:H	1:k:272:ASN:ND2	2.03	0.56
1:n:253:TYR:OH	1:n:374:ILE:O	2.21	0.56
1:o:226:SER:HG	1:o:319:ASN:H	1.52	0.56
1:q:564:GLU:OE2	1:q:614:TYR:OH	2.15	0.56
1:r:253:TYR:OH	1:r:374:ILE:O	2.21	0.56
1:r:474:ALA:H	1:s:272:ASN:ND2	2.03	0.56
1:t:564:GLU:OE2	1:t:614:TYR:OH	2.15	0.56
1:u:224:ASN:OD1	1:2:409:ASN:ND2	2.29	0.56
1:w:272:ASN:ND2	1:y:474:ALA:H	2.03	0.56
1:x:564:GLU:OE2	1:x:614:TYR:OH	2.15	0.56
1:z:253:TYR:OH	1:z:374:ILE:O	2.21	0.56
1:z:272:ASN:ND2	1:2:474:ALA:H	2.03	0.56
1:5:272:ASN:ND2	1:7:474:ALA:H	2.02	0.56
1:6:355:VAL:H	1:6:647:GLN:NE2	2.03	0.56
1:G:703:THR:OG1	1:H:703:THR:OG1	2.22	0.56
1:H:272:ASN:ND2	1:Y:474:ALA:H	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:320:ILE:HD13	1:K:342:ILE:HD11	1.86	0.56
1:M:253:TYR:OH	1:M:374:ILE:O	2.21	0.56
1:P:373:MET:HE3	1:Q:663:PHE:HA	1.86	0.56
1:R:253:TYR:OH	1:R:374:ILE:O	2.21	0.56
1:S:253:TYR:OH	1:S:374:ILE:O	2.21	0.56
1:Y:355:VAL:H	1:Y:647:GLN:NE2	2.03	0.56
1:Z:474:ALA:H	1:4:272:ASN:ND2	2.03	0.56
1:f:272:ASN:ND2	1:g:474:ALA:H	2.03	0.56
1:r:320:ILE:HD13	1:r:342:ILE:HD11	1.87	0.56
1:x:253:TYR:OH	1:x:374:ILE:O	2.21	0.56
1:2:253:TYR:OH	1:2:374:ILE:O	2.21	0.56
1:4:253:TYR:OH	1:4:374:ILE:O	2.21	0.56
1:6:474:ALA:H	1:7:272:ASN:ND2	2.03	0.56
1:7:320:ILE:HD13	1:7:342:ILE:HD11	1.86	0.56
1:J:253:TYR:OH	1:J:374:ILE:O	2.21	0.56
1:J:474:ALA:H	1:L:272:ASN:ND2	2.03	0.56
1:L:253:TYR:OH	1:L:374:ILE:O	2.21	0.56
1:M:355:VAL:H	1:M:647:GLN:NE2	2.03	0.56
1:S:474:ALA:H	1:U:272:ASN:ND2	2.03	0.56
1:U:355:VAL:H	1:U:647:GLN:NE2	2.03	0.56
1:V:320:ILE:HD13	1:V:342:ILE:HD11	1.86	0.56
1:W:474:ALA:H	1:Y:272:ASN:ND2	2.03	0.56
1:X:226:SER:HG	1:X:319:ASN:H	1.52	0.56
1:X:272:ASN:ND2	1:e:474:ALA:H	2.03	0.56
1:Y:320:ILE:HD13	1:Y:342:ILE:HD11	1.86	0.56
1:c:474:ALA:H	1:o:272:ASN:ND2	2.03	0.56
1:l:355:VAL:H	1:l:647:GLN:NE2	2.03	0.56
1:n:226:SER:HG	1:n:319:ASN:H	1.50	0.56
1:p:320:ILE:HD13	1:p:342:ILE:HD11	1.86	0.56
1:q:253:TYR:OH	1:q:374:ILE:O	2.21	0.56
1:q:320:ILE:HD13	1:q:342:ILE:HD11	1.86	0.56
1:s:355:VAL:H	1:s:647:GLN:NE2	2.03	0.56
1:4:320:ILE:HD13	1:4:342:ILE:HD11	1.86	0.56
1:7:355:VAL:H	1:7:647:GLN:NE2	2.03	0.56
1:7:564:GLU:OE2	1:7:614:TYR:OH	2.15	0.56
1:H:320:ILE:HD13	1:H:342:ILE:HD11	1.86	0.56
1:H:355:VAL:H	1:H:647:GLN:NE2	2.03	0.56
1:I:355:VAL:H	1:I:647:GLN:NE2	2.03	0.56
1:K:272:ASN:ND2	1:8:474:ALA:H	2.03	0.56
1:O:355:VAL:H	1:O:647:GLN:NE2	2.03	0.56
1:Q:564:GLU:OE2	1:Q:614:TYR:OH	2.15	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:320:ILE:HD13	1:R:342:ILE:HD11	1.86	0.56
1:R:409:ASN:ND2	1:V:224:ASN:OD1	2.30	0.56
1:R:564:GLU:OE2	1:R:614:TYR:OH	2.15	0.56
1:S:355:VAL:H	1:S:647:GLN:NE2	2.03	0.56
1:Y:253:TYR:OH	1:Y:374:ILE:O	2.21	0.56
1:b:320:ILE:HD13	1:b:342:ILE:HD11	1.86	0.56
1:c:253:TYR:OH	1:c:374:ILE:O	2.21	0.56
1:o:320:ILE:HD13	1:o:342:ILE:HD11	1.86	0.56
1:r:355:VAL:H	1:r:647:GLN:NE2	2.03	0.56
1:C:355:VAL:H	1:C:647:GLN:NE2	2.03	0.56
1:J:355:VAL:H	1:J:647:GLN:NE2	2.03	0.56
1:K:253:TYR:OH	1:K:374:ILE:O	2.21	0.56
1:Q:253:TYR:OH	1:Q:374:ILE:O	2.21	0.56
1:V:272:ASN:ND2	1:X:474:ALA:H	2.03	0.56
1:X:320:ILE:HD13	1:X:342:ILE:HD11	1.86	0.56
1:f:320:ILE:HD13	1:f:342:ILE:HD11	1.86	0.56
1:p:224:ASN:OD1	1:q:409:ASN:ND2	2.30	0.56
1:t:474:ALA:H	1:u:272:ASN:ND2	2.03	0.56
1:u:355:VAL:H	1:u:647:GLN:NE2	2.03	0.56
1:4:230:HIS:O	1:4:245:THR:OG1	2.19	0.56
1:5:320:ILE:HD13	1:5:342:ILE:HD11	1.86	0.56
1:5:355:VAL:H	1:5:647:GLN:NE2	2.03	0.56
1:U:253:TYR:OH	1:U:374:ILE:O	2.21	0.56
1:e:253:TYR:OH	1:e:374:ILE:O	2.21	0.56
1:e:703:THR:OG1	1:f:703:THR:OG1	2.22	0.56
1:m:230:HIS:O	1:m:245:THR:OG1	2.19	0.56
1:u:703:THR:OG1	1:1:703:THR:OG1	2.23	0.56
1:2:355:VAL:H	1:2:647:GLN:NE2	2.03	0.56
1:A:355:VAL:H	1:A:647:GLN:NE2	2.03	0.56
1:F:355:VAL:H	1:F:647:GLN:NE2	2.03	0.56
1:G:474:ALA:H	1:I:272:ASN:ND2	2.03	0.56
1:I:567:ILE:HD12	1:I:571:ASN:HD22	1.71	0.56
1:g:355:VAL:H	1:g:647:GLN:NE2	2.03	0.56
1:l:409:ASN:ND2	1:n:224:ASN:OD1	2.29	0.56
1:o:474:ALA:H	1:p:272:ASN:ND2	2.03	0.56
1:v:355:VAL:H	1:v:647:GLN:NE2	2.03	0.56
1:w:474:ALA:H	1:x:272:ASN:ND2	2.03	0.56
1:5:564:GLU:OE2	1:5:614:TYR:OH	2.15	0.56
1:E:474:ALA:H	1:Q:272:ASN:ND2	2.03	0.56
1:H:567:ILE:HD12	1:H:571:ASN:HD22	1.71	0.56
1:O:567:ILE:HD12	1:O:571:ASN:HD22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:224:ASN:OD1	1:S:409:ASN:ND2	2.30	0.56
1:R:272:ASN:ND2	1:U:474:ALA:H	2.03	0.56
1:S:230:HIS:O	1:S:245:THR:OG1	2.19	0.56
1:T:230:HIS:O	1:T:245:THR:OG1	2.19	0.56
1:Y:564:GLU:OE2	1:Y:614:TYR:OH	2.15	0.56
1:b:703:THR:OG1	1:c:703:THR:OG1	2.22	0.56
1:e:290:HIS:HD2	1:e:366:PRO:HA	1.71	0.56
1:j:253:TYR:OH	1:j:374:ILE:O	2.21	0.56
1:l:567:ILE:HD12	1:l:571:ASN:HD22	1.71	0.56
1:r:230:HIS:O	1:r:245:THR:OG1	2.19	0.56
1:t:703:THR:OG1	1:5:703:THR:OG1	2.22	0.56
1:u:567:ILE:HD12	1:u:571:ASN:HD22	1.71	0.56
1:y:355:VAL:H	1:y:647:GLN:NE2	2.03	0.56
1:5:567:ILE:HD12	1:5:571:ASN:HD22	1.71	0.56
1:G:355:VAL:H	1:G:647:GLN:NE2	2.03	0.55
1:I:564:GLU:OE2	1:I:614:TYR:OH	2.15	0.55
1:K:230:HIS:O	1:K:245:THR:OG1	2.19	0.55
1:R:290:HIS:HD2	1:R:366:PRO:HA	1.72	0.55
1:c:290:HIS:HD2	1:c:366:PRO:HA	1.72	0.55
1:d:355:VAL:H	1:d:647:GLN:NE2	2.03	0.55
1:i:253:TYR:OH	1:i:374:ILE:O	2.21	0.55
1:j:564:GLU:OE2	1:j:614:TYR:OH	2.15	0.55
1:m:355:VAL:H	1:m:647:GLN:NE2	2.03	0.55
1:q:272:ASN:ND2	1:s:474:ALA:H	2.03	0.55
1:r:409:ASN:ND2	1:x:224:ASN:OD1	2.29	0.55
1:8:290:HIS:HD2	1:8:366:PRO:HA	1.72	0.55
1:D:290:HIS:HD2	1:D:366:PRO:HA	1.72	0.55
1:D:567:ILE:HD12	1:D:571:ASN:HD22	1.71	0.55
1:G:567:ILE:HD12	1:G:571:ASN:HD22	1.71	0.55
1:H:474:ALA:H	1:W:272:ASN:ND2	2.03	0.55
1:O:288:ARG:HH21	1:O:616:GLN:HB3	1.72	0.55
1:O:409:ASN:ND2	1:d:224:ASN:OD1	2.29	0.55
1:P:253:TYR:OH	1:P:374:ILE:O	2.21	0.55
1:Q:567:ILE:HD12	1:Q:571:ASN:HD22	1.71	0.55
1:Y:703:THR:OG1	1:Z:703:THR:OG1	2.23	0.55
1:Z:290:HIS:HD2	1:Z:366:PRO:HA	1.72	0.55
1:j:290:HIS:HD2	1:j:366:PRO:HA	1.72	0.55
1:n:290:HIS:HD2	1:n:366:PRO:HA	1.71	0.55
1:q:290:HIS:HD2	1:q:366:PRO:HA	1.72	0.55
1:t:355:VAL:H	1:t:647:GLN:NE2	2.03	0.55
1:v:290:HIS:HD2	1:v:366:PRO:HA	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:567:ILE:HD12	1:y:571:ASN:HD22	1.71	0.55
1:A:290:HIS:HD2	1:A:366:PRO:HA	1.72	0.55
1:B:230:HIS:O	1:B:245:THR:OG1	2.19	0.55
1:F:567:ILE:HD12	1:F:571:ASN:HD22	1.71	0.55
1:H:564:GLU:OE2	1:H:614:TYR:OH	2.15	0.55
1:I:288:ARG:HH21	1:I:616:GLN:HB3	1.72	0.55
1:J:290:HIS:HD2	1:J:366:PRO:HA	1.72	0.55
1:N:355:VAL:H	1:N:647:GLN:NE2	2.03	0.55
1:P:290:HIS:HD2	1:P:366:PRO:HA	1.72	0.55
1:P:564:GLU:OE2	1:P:614:TYR:OH	2.15	0.55
1:S:567:ILE:HD12	1:S:571:ASN:HD22	1.71	0.55
1:T:355:VAL:H	1:T:647:GLN:NE2	2.03	0.55
1:d:290:HIS:HD2	1:d:366:PRO:HA	1.71	0.55
1:k:290:HIS:HD2	1:k:366:PRO:HA	1.72	0.55
1:k:567:ILE:HD12	1:k:571:ASN:HD22	1.71	0.55
1:l:288:ARG:HH21	1:l:616:GLN:HB3	1.72	0.55
1:n:355:VAL:H	1:n:647:GLN:NE2	2.03	0.55
1:t:567:ILE:HD12	1:t:571:ASN:HD22	1.71	0.55
1:x:567:ILE:HD12	1:x:571:ASN:HD22	1.71	0.55
1:5:474:ALA:H	1:6:272:ASN:ND2	2.03	0.55
1:7:230:HIS:O	1:7:245:THR:OG1	2.19	0.55
1:7:703:THR:OG1	1:8:703:THR:OG1	2.23	0.55
1:C:226:SER:HG	1:C:319:ASN:H	1.50	0.55
1:F:288:ARG:HH21	1:F:616:GLN:HB3	1.72	0.55
1:F:290:HIS:HD2	1:F:366:PRO:HA	1.72	0.55
1:L:355:VAL:H	1:L:647:GLN:NE2	2.03	0.55
1:N:253:TYR:OH	1:N:374:ILE:O	2.21	0.55
1:k:230:HIS:O	1:k:245:THR:OG1	2.19	0.55
1:r:564:GLU:OE2	1:r:614:TYR:OH	2.15	0.55
1:r:567:ILE:HD12	1:r:571:ASN:HD22	1.71	0.55
1:u:288:ARG:HH21	1:u:616:GLN:HB3	1.72	0.55
1:y:288:ARG:HH21	1:y:616:GLN:HB3	1.72	0.55
1:y:290:HIS:HD2	1:y:366:PRO:HA	1.72	0.55
1:2:290:HIS:HD2	1:2:366:PRO:HA	1.72	0.55
1:6:290:HIS:HD2	1:6:366:PRO:HA	1.72	0.55
1:8:355:VAL:H	1:8:647:GLN:NE2	2.03	0.55
1:B:290:HIS:HD2	1:B:366:PRO:HA	1.72	0.55
1:B:567:ILE:HD12	1:B:571:ASN:HD22	1.71	0.55
1:E:703:THR:OG1	1:P:703:THR:OG1	2.25	0.55
1:K:290:HIS:HD2	1:K:366:PRO:HA	1.72	0.55
1:L:290:HIS:HD2	1:L:366:PRO:HA	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:703:THR:OG1	1:O:703:THR:OG1	2.22	0.55
1:R:288:ARG:HH21	1:R:616:GLN:HB3	1.72	0.55
1:U:288:ARG:HH21	1:U:616:GLN:HB3	1.72	0.55
1:W:290:HIS:HD2	1:W:366:PRO:HA	1.72	0.55
1:W:567:ILE:HD12	1:W:571:ASN:HD22	1.71	0.55
1:Z:567:ILE:HD12	1:Z:571:ASN:HD22	1.71	0.55
1:a:567:ILE:HD12	1:a:571:ASN:HD22	1.71	0.55
1:h:290:HIS:HD2	1:h:366:PRO:HA	1.72	0.55
1:i:290:HIS:HD2	1:i:366:PRO:HA	1.72	0.55
1:s:288:ARG:HH21	1:s:616:GLN:HB3	1.72	0.55
1:t:230:HIS:O	1:t:245:THR:OG1	2.19	0.55
1:u:474:ALA:H	1:v:272:ASN:ND2	2.03	0.55
1:x:288:ARG:HH21	1:x:616:GLN:HB3	1.72	0.55
1:z:355:VAL:H	1:z:647:GLN:NE2	2.03	0.55
1:z:564:GLU:OE2	1:z:614:TYR:OH	2.15	0.55
1:1:290:HIS:HD2	1:1:366:PRO:HA	1.72	0.55
1:1:567:ILE:HD12	1:1:571:ASN:HD22	1.71	0.55
1:2:567:ILE:HD12	1:2:571:ASN:HD22	1.71	0.55
1:3:567:ILE:HD12	1:3:571:ASN:HD22	1.71	0.55
1:4:290:HIS:HD2	1:4:366:PRO:HA	1.72	0.55
1:6:230:HIS:O	1:6:245:THR:OG1	2.19	0.55
1:6:567:ILE:HD12	1:6:571:ASN:HD22	1.71	0.55
1:D:230:HIS:O	1:D:245:THR:OG1	2.19	0.55
1:D:499:ASN:ND2	1:P:591:ALA:HA	2.21	0.55
1:H:288:ARG:HH21	1:H:616:GLN:HB3	1.72	0.55
1:J:567:ILE:HD12	1:J:571:ASN:HD22	1.71	0.55
1:M:288:ARG:HH21	1:M:616:GLN:HB3	1.72	0.55
1:M:290:HIS:HD2	1:M:366:PRO:HA	1.72	0.55
1:N:290:HIS:HD2	1:N:366:PRO:HA	1.72	0.55
1:Q:288:ARG:HH21	1:Q:616:GLN:HB3	1.72	0.55
1:V:567:ILE:HD12	1:V:571:ASN:HD22	1.71	0.55
1:W:230:HIS:O	1:W:245:THR:OG1	2.19	0.55
1:W:703:THR:OG1	1:X:703:THR:OG1	2.22	0.55
1:Z:253:TYR:OH	1:Z:374:ILE:O	2.21	0.55
1:Z:355:VAL:H	1:Z:647:GLN:NE2	2.03	0.55
1:a:288:ARG:HH21	1:a:616:GLN:HB3	1.72	0.55
1:b:288:ARG:HH21	1:b:616:GLN:HB3	1.72	0.55
1:f:288:ARG:HH21	1:f:616:GLN:HB3	1.72	0.55
1:g:290:HIS:HD2	1:g:366:PRO:HA	1.72	0.55
1:h:288:ARG:HH21	1:h:616:GLN:HB3	1.72	0.55
1:i:355:VAL:H	1:i:647:GLN:NE2	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:288:ARG:HH21	1:q:616:GLN:HB3	1.72	0.55
1:z:290:HIS:HD2	1:z:366:PRO:HA	1.72	0.55
1:5:288:ARG:HH21	1:5:616:GLN:HB3	1.72	0.55
1:8:567:ILE:HD12	1:8:571:ASN:HD22	1.71	0.55
1:C:290:HIS:HD2	1:C:366:PRO:HA	1.72	0.55
1:D:288:ARG:HH21	1:D:616:GLN:HB3	1.72	0.55
1:G:290:HIS:HD2	1:G:366:PRO:HA	1.71	0.55
1:S:564:GLU:OE2	1:S:614:TYR:OH	2.15	0.55
1:a:703:THR:OG1	1:3:703:THR:OG1	2.23	0.55
1:g:226:SER:HG	1:g:319:ASN:H	1.50	0.55
1:p:290:HIS:HD2	1:p:366:PRO:HA	1.72	0.55
1:s:253:TYR:OH	1:s:374:ILE:O	2.21	0.55
1:t:290:HIS:HD2	1:t:366:PRO:HA	1.72	0.55
1:3:288:ARG:HH21	1:3:616:GLN:HB3	1.72	0.55
1:8:288:ARG:HH21	1:8:616:GLN:HB3	1.72	0.55
1:A:272:ASN:ND2	1:I:474:ALA:H	2.03	0.55
1:S:290:HIS:HD2	1:S:366:PRO:HA	1.72	0.55
1:V:290:HIS:HD2	1:V:366:PRO:HA	1.72	0.55
1:Z:288:ARG:HH21	1:Z:616:GLN:HB3	1.72	0.55
1:c:567:ILE:HD12	1:c:571:ASN:HD22	1.71	0.55
1:e:567:ILE:HD12	1:e:571:ASN:HD22	1.71	0.55
1:f:567:ILE:HD12	1:f:571:ASN:HD22	1.71	0.55
1:k:288:ARG:HH21	1:k:616:GLN:HB3	1.72	0.55
1:o:703:THR:OG1	1:6:703:THR:OG1	2.22	0.55
1:p:567:ILE:HD12	1:p:571:ASN:HD22	1.71	0.55
1:r:290:HIS:HD2	1:r:366:PRO:HA	1.72	0.55
1:D:353:PRO:HB3	1:P:430:GLN:NE2	2.22	0.55
1:D:355:VAL:H	1:D:647:GLN:NE2	2.03	0.55
1:S:288:ARG:HH21	1:S:616:GLN:HB3	1.72	0.55
1:b:567:ILE:HD12	1:b:571:ASN:HD22	1.71	0.55
1:l:290:HIS:HD2	1:l:366:PRO:HA	1.72	0.55
1:p:288:ARG:HH21	1:p:616:GLN:HB3	1.72	0.55
1:7:288:ARG:HH21	1:7:616:GLN:HB3	1.72	0.55
1:8:253:TYR:OH	1:8:374:ILE:O	2.21	0.55
1:G:230:HIS:O	1:G:245:THR:OG1	2.19	0.55
1:L:567:ILE:HD12	1:L:571:ASN:HD22	1.71	0.55
1:P:567:ILE:HD12	1:P:571:ASN:HD22	1.71	0.55
1:V:288:ARG:HH21	1:V:616:GLN:HB3	1.72	0.55
1:Y:288:ARG:HH21	1:Y:616:GLN:HB3	1.72	0.55
1:Y:567:ILE:HD12	1:Y:571:ASN:HD22	1.71	0.55
1:f:290:HIS:HD2	1:f:366:PRO:HA	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:355:VAL:H	1:k:647:GLN:NE2	2.03	0.55
1:r:288:ARG:HH21	1:r:616:GLN:HB3	1.72	0.55
1:7:567:ILE:HD12	1:7:571:ASN:HD22	1.71	0.55
1:A:567:ILE:HD12	1:A:571:ASN:HD22	1.71	0.54
1:F:691:GLU:HG3	1:F:733:LEU:HD23	1.90	0.54
1:L:288:ARG:HH21	1:L:616:GLN:HB3	1.72	0.54
1:O:290:HIS:HD2	1:O:366:PRO:HA	1.72	0.54
1:P:691:GLU:HG3	1:P:733:LEU:HD23	1.90	0.54
1:U:290:HIS:HD2	1:U:366:PRO:HA	1.72	0.54
1:X:691:GLU:HG3	1:X:733:LEU:HD23	1.90	0.54
1:b:224:ASN:OD1	1:o:409:ASN:ND2	2.29	0.54
1:d:567:ILE:HD12	1:d:571:ASN:HD22	1.71	0.54
1:e:288:ARG:HH21	1:e:616:GLN:HB3	1.72	0.54
1:i:703:THR:OG1	1:l:703:THR:OG1	2.23	0.54
1:j:691:GLU:HG3	1:j:733:LEU:HD23	1.90	0.54
1:o:691:GLU:HG3	1:o:733:LEU:HD23	1.90	0.54
1:s:290:HIS:HD2	1:s:366:PRO:HA	1.72	0.54
1:1:288:ARG:HH21	1:1:616:GLN:HB3	1.72	0.54
1:3:290:HIS:HD2	1:3:366:PRO:HA	1.71	0.54
1:B:288:ARG:HH21	1:B:616:GLN:HB3	1.72	0.54
1:C:703:THR:OG1	1:L:703:THR:OG1	2.23	0.54
1:E:691:GLU:HG3	1:E:733:LEU:HD23	1.90	0.54
1:H:290:HIS:HD2	1:H:366:PRO:HA	1.72	0.54
1:H:691:GLU:HG3	1:H:733:LEU:HD23	1.90	0.54
1:T:288:ARG:HH21	1:T:616:GLN:HB3	1.72	0.54
1:a:290:HIS:HD2	1:a:366:PRO:HA	1.71	0.54
1:b:290:HIS:HD2	1:b:366:PRO:HA	1.72	0.54
1:c:288:ARG:HH21	1:c:616:GLN:HB3	1.72	0.54
1:g:703:THR:OG1	1:z:703:THR:OG1	2.23	0.54
1:i:691:GLU:HG3	1:i:733:LEU:HD23	1.89	0.54
1:j:567:ILE:HD12	1:j:571:ASN:HD22	1.71	0.54
1:m:288:ARG:HH21	1:m:616:GLN:HB3	1.72	0.54
1:n:691:GLU:HG3	1:n:733:LEU:HD23	1.89	0.54
1:w:691:GLU:HG3	1:w:733:LEU:HD23	1.90	0.54
1:x:290:HIS:HD2	1:x:366:PRO:HA	1.72	0.54
1:x:691:GLU:HG3	1:x:733:LEU:HD23	1.89	0.54
1:y:691:GLU:HG3	1:y:733:LEU:HD23	1.90	0.54
1:z:288:ARG:HH21	1:z:616:GLN:HB3	1.72	0.54
1:z:567:ILE:HD12	1:z:571:ASN:HD22	1.71	0.54
1:5:691:GLU:HG3	1:5:733:LEU:HD23	1.90	0.54
1:P:226:SER:HG	1:P:319:ASN:H	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:290:HIS:HD2	1:Q:366:PRO:HA	1.72	0.54
1:Q:691:GLU:HG3	1:Q:733:LEU:HD23	1.90	0.54
1:T:290:HIS:HD2	1:T:366:PRO:HA	1.72	0.54
1:U:567:ILE:HD12	1:U:571:ASN:HD22	1.71	0.54
1:i:288:ARG:HH21	1:i:616:GLN:HB3	1.72	0.54
1:j:226:SER:HG	1:j:319:ASN:H	1.55	0.54
1:n:567:ILE:HD12	1:n:571:ASN:HD22	1.71	0.54
1:u:290:HIS:HD2	1:u:366:PRO:HA	1.72	0.54
1:5:290:HIS:HD2	1:5:366:PRO:HA	1.72	0.54
1:C:691:GLU:HG3	1:C:733:LEU:HD23	1.90	0.54
1:I:290:HIS:HD2	1:I:366:PRO:HA	1.72	0.54
1:J:691:GLU:HG3	1:J:733:LEU:HD23	1.90	0.54
1:N:691:GLU:HG3	1:N:733:LEU:HD23	1.90	0.54
1:O:708:LYS:HD2	1:P:387:GLN:OE1	2.08	0.54
1:P:251:PRO:HB3	1:Q:659:PRO:HG2	1.90	0.54
1:Q:230:HIS:O	1:Q:245:THR:OG1	2.19	0.54
1:S:703:THR:OG1	1:T:703:THR:OG1	2.23	0.54
1:Y:290:HIS:HD2	1:Y:366:PRO:HA	1.72	0.54
1:Z:691:GLU:HG3	1:Z:733:LEU:HD23	1.89	0.54
1:b:230:HIS:O	1:b:245:THR:OG1	2.19	0.54
1:d:691:GLU:HG3	1:d:733:LEU:HD23	1.90	0.54
1:g:691:GLU:HG3	1:g:733:LEU:HD23	1.90	0.54
1:m:290:HIS:HD2	1:m:366:PRO:HA	1.72	0.54
1:m:703:THR:OG1	1:r:703:THR:OG1	2.23	0.54
1:s:230:HIS:O	1:s:245:THR:OG1	2.19	0.54
1:v:567:ILE:HD12	1:v:571:ASN:HD22	1.71	0.54
1:v:703:THR:OG1	1:y:703:THR:OG1	2.23	0.54
1:2:288:ARG:HH21	1:2:616:GLN:HB3	1.72	0.54
1:2:691:GLU:HG3	1:2:733:LEU:HD23	1.90	0.54
1:6:691:GLU:HG3	1:6:733:LEU:HD23	1.89	0.54
1:7:290:HIS:HD2	1:7:366:PRO:HA	1.72	0.54
1:8:691:GLU:HG3	1:8:733:LEU:HD23	1.89	0.54
1:A:288:ARG:HH21	1:A:616:GLN:HB3	1.72	0.54
1:E:567:ILE:HD12	1:E:571:ASN:HD22	1.71	0.54
1:J:288:ARG:HH21	1:J:616:GLN:HB3	1.72	0.54
1:K:288:ARG:HH21	1:K:616:GLN:HB3	1.72	0.54
1:N:288:ARG:HH21	1:N:616:GLN:HB3	1.72	0.54
1:W:691:GLU:HG3	1:W:733:LEU:HD23	1.89	0.54
1:X:409:ASN:ND2	1:f:224:ASN:OD1	2.29	0.54
1:c:691:GLU:HG3	1:c:733:LEU:HD23	1.90	0.54
1:e:691:GLU:HG3	1:e:733:LEU:HD23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:230:HIS:O	1:f:245:THR:OG1	2.19	0.54
1:i:567:ILE:HD12	1:i:571:ASN:HD22	1.71	0.54
1:p:226:SER:HG	1:p:319:ASN:H	1.55	0.54
1:s:567:ILE:HD12	1:s:571:ASN:HD22	1.71	0.54
1:w:567:ILE:HD12	1:w:571:ASN:HD22	1.71	0.54
1:z:691:GLU:HG3	1:z:733:LEU:HD23	1.90	0.54
1:L:691:GLU:HG3	1:L:733:LEU:HD23	1.90	0.54
1:U:230:HIS:O	1:U:245:THR:OG1	2.19	0.54
1:g:288:ARG:HH21	1:g:616:GLN:HB3	1.72	0.54
1:o:288:ARG:HH21	1:o:616:GLN:HB3	1.72	0.54
1:v:288:ARG:HH21	1:v:616:GLN:HB3	1.72	0.54
1:x:230:HIS:O	1:x:245:THR:OG1	2.19	0.54
1:4:567:ILE:HD12	1:4:571:ASN:HD22	1.71	0.54
1:4:691:GLU:HG3	1:4:733:LEU:HD23	1.89	0.54
1:E:290:HIS:HD2	1:E:366:PRO:HA	1.72	0.54
1:I:288:ARG:CZ	1:I:290:HIS:HE1	2.21	0.54
1:J:288:ARG:CZ	1:J:290:HIS:HE1	2.21	0.54
1:K:567:ILE:HD12	1:K:571:ASN:HD22	1.71	0.54
1:K:691:GLU:HG3	1:K:733:LEU:HD23	1.89	0.54
1:N:430:GLN:NE2	1:P:353:PRO:HB3	2.22	0.54
1:N:567:ILE:HD12	1:N:571:ASN:HD22	1.71	0.54
1:T:567:ILE:HD12	1:T:571:ASN:HD22	1.71	0.54
1:X:567:ILE:HD12	1:X:571:ASN:HD22	1.71	0.54
1:Y:691:GLU:HG3	1:Y:733:LEU:HD23	1.90	0.54
1:h:567:ILE:HD12	1:h:571:ASN:HD22	1.71	0.54
1:o:567:ILE:HD12	1:o:571:ASN:HD22	1.71	0.54
1:q:567:ILE:HD12	1:q:571:ASN:HD22	1.71	0.54
1:t:253:TYR:OH	1:t:374:ILE:O	2.21	0.54
1:u:288:ARG:CZ	1:u:290:HIS:HE1	2.21	0.54
1:2:288:ARG:CZ	1:2:290:HIS:HE1	2.21	0.54
1:4:288:ARG:HH21	1:4:616:GLN:HB3	1.72	0.54
1:7:691:GLU:HG3	1:7:733:LEU:HD23	1.90	0.54
1:B:691:GLU:HG3	1:B:733:LEU:HD23	1.90	0.54
1:G:691:GLU:HG3	1:G:733:LEU:HD23	1.90	0.54
1:M:564:GLU:OE2	1:M:614:TYR:OH	2.15	0.54
1:M:691:GLU:HG3	1:M:733:LEU:HD23	1.89	0.54
1:X:288:ARG:HH21	1:X:616:GLN:HB3	1.72	0.54
1:d:288:ARG:HH21	1:d:616:GLN:HB3	1.72	0.54
1:h:691:GLU:HG3	1:h:733:LEU:HD23	1.89	0.54
1:m:567:ILE:HD12	1:m:571:ASN:HD22	1.71	0.54
1:3:288:ARG:CZ	1:3:290:HIS:HE1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:288:ARG:CZ	1:5:290:HIS:HE1	2.21	0.54
1:B:288:ARG:CZ	1:B:290:HIS:HE1	2.21	0.54
1:C:288:ARG:HH21	1:C:616:GLN:HB3	1.72	0.54
1:G:564:GLU:OE2	1:G:614:TYR:OH	2.15	0.54
1:H:288:ARG:CZ	1:H:290:HIS:HE1	2.21	0.54
1:M:567:ILE:HD12	1:M:571:ASN:HD22	1.71	0.54
1:P:288:ARG:HH21	1:P:616:GLN:HB3	1.72	0.54
1:R:567:ILE:HD12	1:R:571:ASN:HD22	1.71	0.54
1:a:288:ARG:CZ	1:a:290:HIS:HE1	2.21	0.54
1:j:288:ARG:HH21	1:j:616:GLN:HB3	1.72	0.54
1:m:691:GLU:HG3	1:m:733:LEU:HD23	1.89	0.54
1:t:691:GLU:HG3	1:t:733:LEU:HD23	1.89	0.54
1:w:288:ARG:HH21	1:w:616:GLN:HB3	1.72	0.54
1:w:290:HIS:HD2	1:w:366:PRO:HA	1.72	0.54
1:1:691:GLU:HG3	1:1:733:LEU:HD23	1.90	0.54
1:D:553:LYS:HG2	1:P:466:TYR:CD1	2.43	0.54
1:I:691:GLU:HG3	1:I:733:LEU:HD23	1.89	0.54
1:N:218:GLY:HA3	1:N:409:ASN:HA	1.91	0.54
1:T:691:GLU:HG3	1:T:733:LEU:HD23	1.90	0.54
1:n:288:ARG:HH21	1:n:616:GLN:HB3	1.72	0.54
1:1:288:ARG:CZ	1:1:290:HIS:HE1	2.21	0.54
1:A:703:THR:OG1	1:F:703:THR:OG1	2.23	0.53
1:E:288:ARG:HH21	1:E:616:GLN:HB3	1.72	0.53
1:G:430:GLN:NE2	1:I:353:PRO:HB3	2.23	0.53
1:M:353:PRO:HB3	1:b:430:GLN:NE2	2.23	0.53
1:O:430:GLN:NE2	1:m:353:PRO:HB3	2.23	0.53
1:R:691:GLU:HG3	1:R:733:LEU:HD23	1.90	0.53
1:U:691:GLU:HG3	1:U:733:LEU:HD23	1.90	0.53
1:Y:288:ARG:CZ	1:Y:290:HIS:HE1	2.21	0.53
1:c:564:GLU:OE2	1:c:614:TYR:OH	2.15	0.53
1:f:430:GLN:NE2	1:h:353:PRO:HB3	2.23	0.53
1:g:218:GLY:HA3	1:g:409:ASN:HA	1.90	0.53
1:i:218:GLY:HA3	1:i:409:ASN:HA	1.91	0.53
1:q:691:GLU:HG3	1:q:733:LEU:HD23	1.90	0.53
1:s:691:GLU:HG3	1:s:733:LEU:HD23	1.90	0.53
1:u:691:GLU:HG3	1:u:733:LEU:HD23	1.89	0.53
1:5:230:HIS:O	1:5:245:THR:OG1	2.19	0.53
1:6:288:ARG:HH21	1:6:616:GLN:HB3	1.72	0.53
1:D:564:GLU:OE2	1:D:614:TYR:OH	2.15	0.53
1:F:288:ARG:CZ	1:F:290:HIS:HE1	2.21	0.53
1:G:288:ARG:HH21	1:G:616:GLN:HB3	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:288:ARG:CZ	1:K:290:HIS:HE1	2.21	0.53
1:O:288:ARG:CZ	1:O:290:HIS:HE1	2.21	0.53
1:R:288:ARG:CZ	1:R:290:HIS:HE1	2.21	0.53
1:T:353:PRO:HB3	1:l:430:GLN:NE2	2.23	0.53
1:W:288:ARG:HH21	1:W:616:GLN:HB3	1.72	0.53
1:X:290:HIS:HD2	1:X:366:PRO:HA	1.72	0.53
1:Z:218:GLY:HA3	1:Z:409:ASN:HA	1.90	0.53
1:q:288:ARG:CZ	1:q:290:HIS:HE1	2.21	0.53
1:t:430:GLN:NE2	1:u:353:PRO:HB3	2.23	0.53
1:u:218:GLY:HA3	1:u:409:ASN:HA	1.91	0.53
1:y:288:ARG:CZ	1:y:290:HIS:HE1	2.21	0.53
1:4:288:ARG:CZ	1:4:290:HIS:HE1	2.21	0.53
1:7:288:ARG:CZ	1:7:290:HIS:HE1	2.21	0.53
1:8:218:GLY:HA3	1:8:409:ASN:HA	1.90	0.53
1:C:218:GLY:HA3	1:C:409:ASN:HA	1.91	0.53
1:C:567:ILE:HD12	1:C:571:ASN:HD22	1.71	0.53
1:D:218:GLY:HA3	1:D:409:ASN:HA	1.91	0.53
1:E:288:ARG:CZ	1:E:290:HIS:HE1	2.21	0.53
1:F:218:GLY:HA3	1:F:409:ASN:HA	1.91	0.53
1:I:218:GLY:HA3	1:I:409:ASN:HA	1.91	0.53
1:S:288:ARG:CZ	1:S:290:HIS:HE1	2.21	0.53
1:T:430:GLN:NE2	1:d:353:PRO:HB3	2.23	0.53
1:g:567:ILE:HD12	1:g:571:ASN:HD22	1.71	0.53
1:i:564:GLU:OE2	1:i:614:TYR:OH	2.15	0.53
1:l:288:ARG:CZ	1:l:290:HIS:HE1	2.21	0.53
1:l:691:GLU:HG3	1:l:733:LEU:HD23	1.89	0.53
1:m:430:GLN:NE2	1:n:353:PRO:HB3	2.23	0.53
1:r:288:ARG:CZ	1:r:290:HIS:HE1	2.21	0.53
1:s:218:GLY:HA3	1:s:409:ASN:HA	1.91	0.53
1:t:288:ARG:HH21	1:t:616:GLN:HB3	1.72	0.53
1:w:288:ARG:CZ	1:w:290:HIS:HE1	2.21	0.53
1:y:218:GLY:HA3	1:y:409:ASN:HA	1.91	0.53
1:B:430:GLN:NE2	1:J:353:PRO:HB3	2.23	0.53
1:K:373:MET:HE3	1:L:663:PHE:HA	1.91	0.53
1:K:430:GLN:NE2	1:a:353:PRO:HB3	2.23	0.53
1:Q:218:GLY:HA3	1:Q:409:ASN:HA	1.91	0.53
1:Q:288:ARG:CZ	1:Q:290:HIS:HE1	2.21	0.53
1:U:218:GLY:HA3	1:U:409:ASN:HA	1.91	0.53
1:k:218:GLY:HA3	1:k:409:ASN:HA	1.91	0.53
1:n:218:GLY:HA3	1:n:409:ASN:HA	1.91	0.53
1:o:290:HIS:HD2	1:o:366:PRO:HA	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:663:PHE:HA	1:1:373:MET:HE3	1.91	0.53
1:z:663:PHE:HA	1:4:373:MET:HE3	1.91	0.53
1:3:373:MET:HE3	1:8:663:PHE:HA	1.91	0.53
1:8:288:ARG:CZ	1:8:290:HIS:HE1	2.21	0.53
1:A:218:GLY:HA3	1:A:409:ASN:HA	1.91	0.53
1:A:691:GLU:HG3	1:A:733:LEU:HD23	1.90	0.53
1:H:230:HIS:O	1:H:245:THR:OG1	2.19	0.53
1:H:353:PRO:HB3	1:Y:430:GLN:NE2	2.24	0.53
1:K:663:PHE:HA	1:7:373:MET:HE3	1.91	0.53
1:O:691:GLU:HG3	1:O:733:LEU:HD23	1.90	0.53
1:P:288:ARG:CZ	1:P:290:HIS:HE1	2.21	0.53
1:Y:373:MET:HE3	1:4:663:PHE:HA	1.91	0.53
1:Z:288:ARG:CZ	1:Z:290:HIS:HE1	2.21	0.53
1:Z:663:PHE:HA	1:a:373:MET:HE3	1.91	0.53
1:c:288:ARG:CZ	1:c:290:HIS:HE1	2.21	0.53
1:d:218:GLY:HA3	1:d:409:ASN:HA	1.91	0.53
1:e:288:ARG:CZ	1:e:290:HIS:HE1	2.21	0.53
1:e:564:GLU:OE2	1:e:614:TYR:OH	2.15	0.53
1:p:218:GLY:HA3	1:p:409:ASN:HA	1.91	0.53
1:p:288:ARG:CZ	1:p:290:HIS:HE1	2.21	0.53
1:p:564:GLU:OE2	1:p:614:TYR:OH	2.15	0.53
1:q:430:GLN:NE2	1:r:353:PRO:HB3	2.23	0.53
1:w:355:VAL:H	1:w:647:GLN:NE2	2.03	0.53
1:x:218:GLY:HA3	1:x:409:ASN:HA	1.91	0.53
1:1:430:GLN:NE2	1:2:353:PRO:HB3	2.23	0.53
1:1:530:LYS:HG2	1:1:531:ASP:N	2.23	0.53
1:3:353:PRO:HB3	1:4:430:GLN:NE2	2.23	0.53
1:5:353:PRO:HB3	1:7:430:GLN:NE2	2.24	0.53
1:C:353:PRO:HB3	1:M:430:GLN:NE2	2.23	0.53
1:D:530:LYS:HG2	1:D:531:ASP:N	2.23	0.53
1:L:218:GLY:HA3	1:L:409:ASN:HA	1.91	0.53
1:R:430:GLN:NE2	1:S:353:PRO:HB3	2.23	0.53
1:S:430:GLN:NE2	1:U:353:PRO:HB3	2.23	0.53
1:V:218:GLY:HA3	1:V:409:ASN:HA	1.91	0.53
1:V:288:ARG:CZ	1:V:290:HIS:HE1	2.21	0.53
1:X:218:GLY:HA3	1:X:409:ASN:HA	1.90	0.53
1:d:485:CYS:HG	1:d:578:TYR:HB2	1.74	0.53
1:h:288:ARG:CZ	1:h:290:HIS:HE1	2.21	0.53
1:j:288:ARG:CZ	1:j:290:HIS:HE1	2.21	0.53
1:k:530:LYS:HG2	1:k:531:ASP:N	2.23	0.53
1:n:485:CYS:HG	1:n:578:TYR:HB2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:418:GLU:OE2	1:o:642:LYS:N	2.42	0.53
1:u:564:GLU:OE2	1:u:614:TYR:OH	2.15	0.53
1:v:218:GLY:HA3	1:v:409:ASN:HA	1.91	0.53
1:v:691:GLU:HG3	1:v:733:LEU:HD23	1.90	0.53
1:x:288:ARG:CZ	1:x:290:HIS:HE1	2.21	0.53
1:x:415:TYR:OH	1:x:643:HIS:O	2.27	0.53
1:z:218:GLY:HA3	1:z:409:ASN:HA	1.91	0.53
1:6:288:ARG:CZ	1:6:290:HIS:HE1	2.21	0.53
1:B:418:GLU:OE2	1:B:642:LYS:N	2.42	0.53
1:D:691:GLU:HG3	1:D:733:LEU:HD23	1.90	0.53
1:E:355:VAL:H	1:E:647:GLN:NE2	2.03	0.53
1:G:288:ARG:CZ	1:G:290:HIS:HE1	2.21	0.53
1:G:373:MET:HE3	1:W:663:PHE:HA	1.91	0.53
1:H:373:MET:HE3	1:I:663:PHE:HA	1.91	0.53
1:J:430:GLN:NE2	1:L:353:PRO:HB3	2.23	0.53
1:K:415:TYR:OH	1:K:643:HIS:O	2.27	0.53
1:K:530:LYS:HG2	1:K:531:ASP:N	2.23	0.53
1:M:288:ARG:CZ	1:M:290:HIS:HE1	2.21	0.53
1:N:564:GLU:OE2	1:N:614:TYR:OH	2.15	0.53
1:O:353:PRO:HB3	1:n:430:GLN:NE2	2.23	0.53
1:O:418:GLU:OE2	1:O:642:LYS:N	2.42	0.53
1:R:218:GLY:HA3	1:R:409:ASN:HA	1.90	0.53
1:S:418:GLU:OE2	1:S:642:LYS:N	2.42	0.53
1:T:373:MET:HE3	1:U:663:PHE:HA	1.91	0.53
1:U:288:ARG:CZ	1:U:290:HIS:HE1	2.21	0.53
1:V:226:SER:HG	1:V:319:ASN:H	1.56	0.53
1:V:430:GLN:NE2	1:e:353:PRO:HB3	2.24	0.53
1:W:430:GLN:NE2	1:Y:353:PRO:HB3	2.23	0.53
1:X:418:GLU:OE2	1:X:642:LYS:N	2.42	0.53
1:Y:218:GLY:HA3	1:Y:409:ASN:HA	1.91	0.53
1:b:226:SER:HG	1:b:319:ASN:H	1.55	0.53
1:g:353:PRO:HB3	1:h:430:GLN:NE2	2.23	0.53
1:j:418:GLU:OE2	1:j:642:LYS:N	2.42	0.53
1:j:430:GLN:NE2	1:k:353:PRO:HB3	2.24	0.53
1:l:418:GLU:OE2	1:l:642:LYS:N	2.42	0.53
1:n:288:ARG:CZ	1:n:290:HIS:HE1	2.21	0.53
1:r:418:GLU:OE2	1:r:642:LYS:N	2.42	0.53
1:r:430:GLN:NE2	1:s:353:PRO:HB3	2.23	0.53
1:s:288:ARG:CZ	1:s:290:HIS:HE1	2.21	0.53
1:v:230:HIS:O	1:v:245:THR:OG1	2.19	0.53
1:z:353:PRO:HB3	1:2:430:GLN:NE2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:418:GLU:OE2	1:1:642:LYS:N	2.42	0.53
1:4:415:TYR:OH	1:4:643:HIS:O	2.27	0.53
1:6:430:GLN:NE2	1:7:353:PRO:HB3	2.23	0.53
1:7:218:GLY:HA3	1:7:409:ASN:HA	1.91	0.53
1:F:415:TYR:OH	1:F:643:HIS:O	2.27	0.53
1:F:530:LYS:HG2	1:F:531:ASP:N	2.23	0.53
1:K:224:ASN:OD1	1:L:409:ASN:ND2	2.29	0.53
1:P:418:GLU:OE2	1:P:642:LYS:N	2.42	0.53
1:Q:415:TYR:OH	1:Q:643:HIS:O	2.27	0.53
1:R:353:PRO:HB3	1:U:430:GLN:NE2	2.23	0.53
1:V:691:GLU:HG3	1:V:733:LEU:HD23	1.90	0.53
1:W:218:GLY:HA3	1:W:409:ASN:HA	1.91	0.53
1:W:288:ARG:CZ	1:W:290:HIS:HE1	2.21	0.53
1:Y:415:TYR:OH	1:Y:643:HIS:O	2.27	0.53
1:Z:353:PRO:HB3	1:3:430:GLN:NE2	2.23	0.53
1:a:218:GLY:HA3	1:a:409:ASN:HA	1.91	0.53
1:a:430:GLN:NE2	1:8:353:PRO:HB3	2.23	0.53
1:a:691:GLU:HG3	1:a:733:LEU:HD23	1.90	0.53
1:c:218:GLY:HA3	1:c:409:ASN:HA	1.91	0.53
1:c:353:PRO:HB3	1:p:430:GLN:NE2	2.24	0.53
1:d:288:ARG:CZ	1:d:290:HIS:HE1	2.21	0.53
1:d:430:GLN:NE2	1:l:353:PRO:HB3	2.23	0.53
1:e:218:GLY:HA3	1:e:409:ASN:HA	1.91	0.53
1:i:353:PRO:HB3	1:k:430:GLN:NE2	2.23	0.53
1:l:218:GLY:HA3	1:l:409:ASN:HA	1.91	0.53
1:m:415:TYR:OH	1:m:643:HIS:O	2.27	0.53
1:o:218:GLY:HA3	1:o:409:ASN:HA	1.91	0.53
1:p:691:GLU:HG3	1:p:733:LEU:HD23	1.90	0.53
1:q:218:GLY:HA3	1:q:409:ASN:HA	1.90	0.53
1:q:353:PRO:HB3	1:s:430:GLN:NE2	2.23	0.53
1:r:691:GLU:HG3	1:r:733:LEU:HD23	1.90	0.53
1:t:373:MET:HE3	1:6:663:PHE:HA	1.91	0.53
1:u:663:PHE:HA	1:5:373:MET:HE3	1.91	0.53
1:y:415:TYR:OH	1:y:643:HIS:O	2.27	0.53
1:z:409:ASN:ND2	1:4:224:ASN:OD1	2.29	0.53
1:7:415:TYR:OH	1:7:643:HIS:O	2.27	0.53
1:C:288:ARG:CZ	1:C:290:HIS:HE1	2.21	0.53
1:F:663:PHE:HA	1:R:373:MET:HE3	1.91	0.53
1:J:415:TYR:OH	1:J:643:HIS:O	2.27	0.53
1:O:218:GLY:HA3	1:O:409:ASN:HA	1.91	0.53
1:P:708:LYS:HD2	1:Q:387:GLN:OE1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:415:TYR:OH	1:T:643:HIS:O	2.27	0.53
1:V:564:GLU:OE2	1:V:614:TYR:OH	2.15	0.53
1:X:288:ARG:CZ	1:X:290:HIS:HE1	2.21	0.53
1:X:353:PRO:HB3	1:e:430:GLN:NE2	2.23	0.53
1:Z:430:GLN:NE2	1:4:353:PRO:HB3	2.23	0.53
1:e:373:MET:HE3	1:h:663:PHE:HA	1.91	0.53
1:f:415:TYR:OH	1:f:643:HIS:O	2.27	0.53
1:k:691:GLU:HG3	1:k:733:LEU:HD23	1.90	0.53
1:m:373:MET:HE3	1:s:663:PHE:HA	1.91	0.53
1:n:415:TYR:OH	1:n:643:HIS:O	2.27	0.53
1:t:288:ARG:CZ	1:t:290:HIS:HE1	2.21	0.53
1:u:430:GLN:NE2	1:v:353:PRO:HB3	2.23	0.53
1:y:530:LYS:HG2	1:y:531:ASP:N	2.23	0.53
1:2:415:TYR:OH	1:2:643:HIS:O	2.27	0.53
1:3:218:GLY:HA3	1:3:409:ASN:HA	1.91	0.53
1:3:691:GLU:HG3	1:3:733:LEU:HD23	1.90	0.53
1:4:530:LYS:HG2	1:4:531:ASP:N	2.23	0.53
1:5:418:GLU:OE2	1:5:642:LYS:N	2.42	0.53
1:6:218:GLY:HA3	1:6:409:ASN:HA	1.91	0.53
1:8:418:GLU:OE2	1:8:642:LYS:N	2.42	0.53
1:A:663:PHE:HA	1:B:373:MET:HE3	1.91	0.53
1:G:418:GLU:OE2	1:G:642:LYS:N	2.42	0.53
1:H:418:GLU:OE2	1:H:642:LYS:N	2.42	0.53
1:I:418:GLU:OE2	1:I:642:LYS:N	2.42	0.53
1:K:353:PRO:HB3	1:8:430:GLN:NE2	2.23	0.53
1:M:415:TYR:OH	1:M:643:HIS:O	2.27	0.53
1:M:663:PHE:HA	1:c:373:MET:HE3	1.91	0.53
1:O:415:TYR:OH	1:O:643:HIS:O	2.27	0.53
1:R:415:TYR:OH	1:R:643:HIS:O	2.27	0.53
1:R:663:PHE:HA	1:V:373:MET:HE3	1.91	0.53
1:S:691:GLU:HG3	1:S:733:LEU:HD23	1.90	0.53
1:V:353:PRO:HB3	1:X:430:GLN:NE2	2.23	0.53
1:X:373:MET:HE3	1:Y:663:PHE:HA	1.91	0.53
1:Z:418:GLU:OE2	1:Z:642:LYS:N	2.42	0.53
1:a:485:CYS:HG	1:a:578:TYR:HB2	1.73	0.53
1:b:415:TYR:OH	1:b:643:HIS:O	2.27	0.53
1:b:691:GLU:HG3	1:b:733:LEU:HD23	1.90	0.53
1:d:415:TYR:OH	1:d:643:HIS:O	2.27	0.53
1:f:288:ARG:CZ	1:f:290:HIS:HE1	2.21	0.53
1:f:564:GLU:OE2	1:f:614:TYR:OH	2.15	0.53
1:g:288:ARG:CZ	1:g:290:HIS:HE1	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:415:TYR:OH	1:h:643:HIS:O	2.27	0.53
1:l:663:PHE:HA	1:n:373:MET:HE3	1.91	0.53
1:o:373:MET:HE3	1:7:663:PHE:HA	1.91	0.53
1:q:373:MET:HE3	1:y:663:PHE:HA	1.91	0.53
1:q:415:TYR:OH	1:q:643:HIS:O	2.27	0.53
1:A:230:HIS:O	1:A:245:THR:OG1	2.19	0.52
1:A:353:PRO:HB3	1:I:430:GLN:NE2	2.23	0.52
1:C:415:TYR:OH	1:C:643:HIS:O	2.27	0.52
1:D:418:GLU:OE2	1:D:642:LYS:N	2.42	0.52
1:G:218:GLY:HA3	1:G:409:ASN:HA	1.90	0.52
1:I:373:MET:HE3	1:J:663:PHE:HA	1.91	0.52
1:L:415:TYR:OH	1:L:643:HIS:O	2.27	0.52
1:N:415:TYR:OH	1:N:643:HIS:O	2.27	0.52
1:O:663:PHE:HA	1:d:373:MET:HE3	1.91	0.52
1:S:218:GLY:HA3	1:S:409:ASN:HA	1.91	0.52
1:T:663:PHE:HA	1:i:373:MET:HE3	1.91	0.52
1:W:415:TYR:OH	1:W:643:HIS:O	2.27	0.52
1:Z:226:SER:HG	1:Z:319:ASN:H	1.54	0.52
1:b:218:GLY:HA3	1:b:409:ASN:HA	1.91	0.52
1:b:288:ARG:CZ	1:b:290:HIS:HE1	2.21	0.52
1:c:430:GLN:NE2	1:o:353:PRO:HB3	2.23	0.52
1:d:418:GLU:OE2	1:d:642:LYS:N	2.42	0.52
1:f:691:GLU:HG3	1:f:733:LEU:HD23	1.90	0.52
1:g:415:TYR:OH	1:g:643:HIS:O	2.27	0.52
1:j:663:PHE:HA	1:l:373:MET:HE3	1.91	0.52
1:l:415:TYR:OH	1:l:643:HIS:O	2.27	0.52
1:o:288:ARG:CZ	1:o:290:HIS:HE1	2.21	0.52
1:o:430:GLN:NE2	1:p:353:PRO:HB3	2.23	0.52
1:p:373:MET:HE3	1:q:663:PHE:HA	1.91	0.52
1:u:373:MET:HE3	1:2:663:PHE:HA	1.91	0.52
1:u:418:GLU:OE2	1:u:642:LYS:N	2.42	0.52
1:w:415:TYR:OH	1:w:643:HIS:O	2.27	0.52
1:6:415:TYR:OH	1:6:643:HIS:O	2.27	0.52
1:A:288:ARG:CZ	1:A:290:HIS:HE1	2.21	0.52
1:D:288:ARG:CZ	1:D:290:HIS:HE1	2.21	0.52
1:E:415:TYR:OH	1:E:643:HIS:O	2.27	0.52
1:K:240:VAL:HG13	1:K:686:TRP:HB2	1.92	0.52
1:S:240:VAL:HG13	1:S:686:TRP:HB2	1.92	0.52
1:X:230:HIS:O	1:X:245:THR:OG1	2.19	0.52
1:a:240:VAL:HG13	1:a:686:TRP:HB2	1.92	0.52
1:f:530:LYS:HG2	1:f:531:ASP:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:415:TYR:OH	1:i:643:HIS:O	2.27	0.52
1:k:288:ARG:CZ	1:k:290:HIS:HE1	2.21	0.52
1:k:418:GLU:OE2	1:k:642:LYS:N	2.42	0.52
1:k:663:PHE:HA	1:w:373:MET:HE3	1.91	0.52
1:n:418:GLU:OE2	1:n:642:LYS:N	2.42	0.52
1:o:230:HIS:O	1:o:245:THR:OG1	2.19	0.52
1:t:218:GLY:HA3	1:t:409:ASN:HA	1.90	0.52
1:v:288:ARG:CZ	1:v:290:HIS:HE1	2.21	0.52
1:z:226:SER:HG	1:z:319:ASN:H	1.54	0.52
1:z:288:ARG:CZ	1:z:290:HIS:HE1	2.21	0.52
1:z:415:TYR:OH	1:z:643:HIS:O	2.27	0.52
1:3:240:VAL:HG13	1:3:686:TRP:HB2	1.92	0.52
1:A:415:TYR:OH	1:A:643:HIS:O	2.27	0.52
1:A:430:GLN:NE2	1:G:353:PRO:HB3	2.23	0.52
1:F:353:PRO:HB3	1:Q:430:GLN:NE2	2.23	0.52
1:J:240:VAL:HG13	1:J:686:TRP:HB2	1.92	0.52
1:L:288:ARG:CZ	1:L:290:HIS:HE1	2.21	0.52
1:N:373:MET:HE3	1:m:663:PHE:HA	1.91	0.52
1:V:415:TYR:OH	1:V:643:HIS:O	2.27	0.52
1:c:415:TYR:OH	1:c:643:HIS:O	2.27	0.52
1:e:415:TYR:OH	1:e:643:HIS:O	2.27	0.52
1:f:218:GLY:HA3	1:f:409:ASN:HA	1.91	0.52
1:k:415:TYR:OH	1:k:643:HIS:O	2.27	0.52
1:p:415:TYR:OH	1:p:643:HIS:O	2.27	0.52
1:q:418:GLU:OE2	1:q:642:LYS:N	2.42	0.52
1:r:218:GLY:HA3	1:r:409:ASN:HA	1.91	0.52
1:r:240:VAL:HG13	1:r:686:TRP:HB2	1.92	0.52
1:v:415:TYR:OH	1:v:643:HIS:O	2.27	0.52
1:2:240:VAL:HG13	1:2:686:TRP:HB2	1.92	0.52
1:4:240:VAL:HG13	1:4:686:TRP:HB2	1.92	0.52
1:D:430:GLN:NE2	1:N:353:PRO:HB3	2.24	0.52
1:J:373:MET:HE3	1:a:663:PHE:HA	1.91	0.52
1:M:218:GLY:HA3	1:M:409:ASN:HA	1.91	0.52
1:R:418:GLU:OE2	1:R:642:LYS:N	2.42	0.52
1:T:218:GLY:HA3	1:T:409:ASN:HA	1.91	0.52
1:T:288:ARG:CZ	1:T:290:HIS:HE1	2.21	0.52
1:U:415:TYR:OH	1:U:643:HIS:O	2.27	0.52
1:W:240:VAL:HG13	1:W:686:TRP:HB2	1.92	0.52
1:b:530:LYS:HG2	1:b:531:ASP:N	2.23	0.52
1:h:218:GLY:HA3	1:h:409:ASN:HA	1.91	0.52
1:s:415:TYR:OH	1:s:643:HIS:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:353:PRO:HB3	1:v:430:GLN:NE2	2.23	0.52
1:w:218:GLY:HA3	1:w:409:ASN:HA	1.91	0.52
1:w:240:VAL:HG13	1:w:686:TRP:HB2	1.92	0.52
1:x:430:GLN:NE2	1:y:353:PRO:HB3	2.23	0.52
1:6:240:VAL:HG13	1:6:686:TRP:HB2	1.92	0.52
1:6:485:CYS:HG	1:6:578:TYR:HB2	1.74	0.52
1:D:415:TYR:OH	1:D:643:HIS:O	2.27	0.52
1:D:663:PHE:HA	1:E:373:MET:HE3	1.91	0.52
1:E:218:GLY:HA3	1:E:409:ASN:HA	1.91	0.52
1:E:240:VAL:HG13	1:E:686:TRP:HB2	1.92	0.52
1:H:240:VAL:HG13	1:H:686:TRP:HB2	1.92	0.52
1:H:415:TYR:OH	1:H:643:HIS:O	2.27	0.52
1:P:218:GLY:HA3	1:P:409:ASN:HA	1.91	0.52
1:b:564:GLU:OE2	1:b:614:TYR:OH	2.15	0.52
1:e:418:GLU:OE2	1:e:642:LYS:N	2.42	0.52
1:k:240:VAL:HG13	1:k:686:TRP:HB2	1.92	0.52
1:l:230:HIS:O	1:l:245:THR:OG1	2.19	0.52
1:m:218:GLY:HA3	1:m:409:ASN:HA	1.90	0.52
1:m:288:ARG:CZ	1:m:290:HIS:HE1	2.21	0.52
1:r:663:PHE:HA	1:x:373:MET:HE3	1.91	0.52
1:v:564:GLU:OE2	1:v:614:TYR:OH	2.15	0.52
1:w:353:PRO:HB3	1:y:430:GLN:NE2	2.23	0.52
1:w:418:GLU:OE2	1:w:642:LYS:N	2.42	0.52
1:5:240:VAL:HG13	1:5:686:TRP:HB2	1.92	0.52
1:6:418:GLU:OE2	1:6:642:LYS:N	2.42	0.52
1:8:240:VAL:HG13	1:8:686:TRP:HB2	1.92	0.52
1:B:353:PRO:HB3	1:L:430:GLN:NE2	2.23	0.52
1:D:278:SER:HB2	1:P:439:LEU:HD21	1.92	0.52
1:E:353:PRO:HB3	1:F:430:GLN:NE2	2.23	0.52
1:E:430:GLN:NE2	1:Q:353:PRO:HB3	2.23	0.52
1:L:226:SER:HG	1:L:319:ASN:H	1.54	0.52
1:O:564:GLU:OE2	1:O:614:TYR:OH	2.15	0.52
1:P:240:VAL:HG13	1:P:686:TRP:HB2	1.92	0.52
1:T:564:GLU:OE2	1:T:614:TYR:OH	2.15	0.52
1:V:240:VAL:HG13	1:V:686:TRP:HB2	1.92	0.52
1:W:485:CYS:HG	1:W:578:TYR:HB2	1.74	0.52
1:X:564:GLU:OE2	1:X:614:TYR:OH	2.15	0.52
1:Z:240:VAL:HG13	1:Z:686:TRP:HB2	1.92	0.52
1:Z:415:TYR:OH	1:Z:643:HIS:O	2.27	0.52
1:c:418:GLU:OE2	1:c:642:LYS:N	2.42	0.52
1:j:218:GLY:HA3	1:j:409:ASN:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:564:GLU:OE2	1:l:614:TYR:OH	2.15	0.52
1:y:240:VAL:HG13	1:y:686:TRP:HB2	1.92	0.52
1:2:373:MET:HE3	1:3:663:PHE:HA	1.91	0.52
1:5:415:TYR:OH	1:5:643:HIS:O	2.27	0.52
1:5:663:PHE:HA	1:8:373:MET:HE3	1.91	0.52
1:C:240:VAL:HG13	1:C:686:TRP:HB2	1.92	0.52
1:D:240:VAL:HG13	1:D:686:TRP:HB2	1.92	0.52
1:E:418:GLU:OE2	1:E:642:LYS:N	2.42	0.52
1:F:240:VAL:HG13	1:F:686:TRP:HB2	1.92	0.52
1:G:415:TYR:OH	1:G:643:HIS:O	2.27	0.52
1:I:530:LYS:HG2	1:I:531:ASP:N	2.23	0.52
1:O:530:LYS:HG2	1:O:531:ASP:N	2.23	0.52
1:U:530:LYS:HG2	1:U:531:ASP:N	2.23	0.52
1:W:418:GLU:OE2	1:W:642:LYS:N	2.42	0.52
1:b:240:VAL:HG13	1:b:686:TRP:HB2	1.92	0.52
1:g:240:VAL:HG13	1:g:686:TRP:HB2	1.92	0.52
1:i:288:ARG:CZ	1:i:290:HIS:HE1	2.21	0.52
1:i:450:THR:OG1	1:j:502:ASN:HA	2.09	0.52
1:m:564:GLU:OE2	1:m:614:TYR:OH	2.15	0.52
1:p:240:VAL:HG13	1:p:686:TRP:HB2	1.92	0.52
1:s:530:LYS:HG2	1:s:531:ASP:N	2.23	0.52
1:u:530:LYS:HG2	1:u:531:ASP:N	2.23	0.52
1:w:430:GLN:NE2	1:x:353:PRO:HB3	2.23	0.52
1:z:430:GLN:NE2	1:1:353:PRO:HB3	2.23	0.52
1:8:415:TYR:OH	1:8:643:HIS:O	2.27	0.52
1:F:373:MET:HE3	1:G:663:PHE:HA	1.90	0.52
1:H:663:PHE:HA	1:Z:373:MET:HE3	1.91	0.52
1:I:415:TYR:OH	1:I:643:HIS:O	2.27	0.52
1:J:418:GLU:OE2	1:J:642:LYS:N	2.42	0.52
1:N:288:ARG:CZ	1:N:290:HIS:HE1	2.21	0.52
1:P:242:THR:HG21	1:P:293:PHE:CE1	2.45	0.52
1:Q:373:MET:HE3	1:S:663:PHE:HA	1.91	0.52
1:V:591:ALA:HA	1:e:499:ASN:ND2	2.25	0.52
1:V:663:PHE:HA	1:W:373:MET:HE3	1.91	0.52
1:X:415:TYR:OH	1:X:643:HIS:O	2.27	0.52
1:b:242:THR:HG21	1:b:293:PHE:CE1	2.45	0.52
1:c:499:ASN:ND2	1:p:591:ALA:HA	2.25	0.52
1:e:230:HIS:O	1:e:245:THR:OG1	2.19	0.52
1:f:240:VAL:HG13	1:f:686:TRP:HB2	1.92	0.52
1:f:242:THR:HG21	1:f:293:PHE:CE1	2.45	0.52
1:j:240:VAL:HG13	1:j:686:TRP:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:415:TYR:OH	1:o:643:HIS:O	2.27	0.52
1:p:663:PHE:HA	1:6:373:MET:HE3	1.91	0.52
1:q:499:ASN:ND2	1:s:591:ALA:HA	2.25	0.52
1:r:485:CYS:HG	1:r:578:TYR:HB2	1.74	0.52
1:t:663:PHE:HA	1:y:373:MET:HE3	1.90	0.52
1:u:591:ALA:HA	1:v:499:ASN:ND2	2.25	0.52
1:2:418:GLU:OE2	1:2:642:LYS:N	2.42	0.52
1:B:218:GLY:HA3	1:B:409:ASN:HA	1.90	0.52
1:B:415:TYR:OH	1:B:643:HIS:O	2.27	0.52
1:F:472:THR:HB	1:F:475:GLU:OE1	2.10	0.52
1:J:218:GLY:HA3	1:J:409:ASN:HA	1.91	0.52
1:L:472:THR:HB	1:L:475:GLU:OE1	2.10	0.52
1:O:230:HIS:O	1:O:245:THR:OG1	2.19	0.52
1:R:242:THR:HG21	1:R:293:PHE:CE1	2.45	0.52
1:R:499:ASN:ND2	1:U:591:ALA:HA	2.25	0.52
1:S:415:TYR:OH	1:S:643:HIS:O	2.27	0.52
1:Y:242:THR:HG21	1:Y:293:PHE:CE1	2.45	0.52
1:a:472:THR:HB	1:a:475:GLU:OE1	2.10	0.52
1:f:663:PHE:HA	1:z:373:MET:HE3	1.91	0.52
1:j:242:THR:HG21	1:j:293:PHE:CE1	2.45	0.52
1:l:530:LYS:HG2	1:l:531:ASP:N	2.23	0.52
1:o:564:GLU:OE2	1:o:614:TYR:OH	2.15	0.52
1:r:415:TYR:OH	1:r:643:HIS:O	2.27	0.52
1:t:415:TYR:OH	1:t:643:HIS:O	2.27	0.52
1:u:240:VAL:HG13	1:u:686:TRP:HB2	1.92	0.52
1:u:415:TYR:OH	1:u:643:HIS:O	2.27	0.52
1:v:373:MET:HE3	1:w:663:PHE:HA	1.90	0.52
1:y:472:THR:HB	1:y:475:GLU:OE1	2.10	0.52
1:z:472:THR:HB	1:z:475:GLU:OE1	2.10	0.52
1:2:218:GLY:HA3	1:2:409:ASN:HA	1.91	0.52
1:3:472:THR:HB	1:3:475:GLU:OE1	2.10	0.52
1:5:430:GLN:NE2	1:6:353:PRO:HB3	2.24	0.52
1:A:373:MET:HE3	1:E:663:PHE:HA	1.90	0.52
1:C:472:THR:HB	1:C:475:GLU:OE1	2.10	0.52
1:H:271:ASP:O	1:Y:434:ARG:NH2	2.43	0.52
1:J:472:THR:HB	1:J:475:GLU:OE1	2.10	0.52
1:K:242:THR:HG21	1:K:293:PHE:CE1	2.45	0.52
1:N:434:ARG:NH2	1:P:271:ASP:O	2.42	0.52
1:R:472:THR:HB	1:R:475:GLU:OE1	2.10	0.52
1:c:230:HIS:O	1:c:245:THR:OG1	2.19	0.52
1:d:472:THR:HB	1:d:475:GLU:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:242:THR:HG21	1:q:293:PHE:CE1	2.45	0.52
1:q:472:THR:HB	1:q:475:GLU:OE1	2.10	0.52
1:w:591:ALA:HA	1:x:499:ASN:ND2	2.25	0.52
1:x:242:THR:HG21	1:x:293:PHE:CE1	2.45	0.52
1:4:242:THR:HG21	1:4:293:PHE:CE1	2.45	0.52
1:5:271:ASP:O	1:7:434:ARG:NH2	2.43	0.52
1:6:530:LYS:HG2	1:6:531:ASP:N	2.23	0.52
1:7:242:THR:HG21	1:7:293:PHE:CE1	2.45	0.52
1:A:242:THR:HG21	1:A:293:PHE:CE1	2.45	0.51
1:A:499:ASN:ND2	1:I:591:ALA:HA	2.26	0.51
1:A:564:GLU:OE2	1:A:614:TYR:OH	2.15	0.51
1:B:663:PHE:HA	1:C:373:MET:HE3	1.91	0.51
1:C:418:GLU:OE2	1:C:642:LYS:N	2.42	0.51
1:E:591:ALA:HA	1:Q:499:ASN:ND2	2.25	0.51
1:F:485:CYS:HG	1:F:578:TYR:HB2	1.75	0.51
1:G:591:ALA:HA	1:I:499:ASN:ND2	2.25	0.51
1:H:430:GLN:NE2	1:W:353:PRO:HB3	2.24	0.51
1:H:472:THR:HB	1:H:475:GLU:OE1	2.10	0.51
1:I:240:VAL:HG13	1:I:686:TRP:HB2	1.92	0.51
1:K:472:THR:HB	1:K:475:GLU:OE1	2.10	0.51
1:L:373:MET:HE3	1:b:663:PHE:HA	1.91	0.51
1:N:242:THR:HG21	1:N:293:PHE:CE1	2.45	0.51
1:N:418:GLU:OE2	1:N:642:LYS:N	2.42	0.51
1:Q:242:THR:HG21	1:Q:293:PHE:CE1	2.45	0.51
1:S:591:ALA:HA	1:U:499:ASN:ND2	2.25	0.51
1:W:472:THR:HB	1:W:475:GLU:OE1	2.10	0.51
1:W:530:LYS:HG2	1:W:531:ASP:N	2.23	0.51
1:Z:499:ASN:ND2	1:3:591:ALA:HA	2.26	0.51
1:a:415:TYR:OH	1:a:643:HIS:O	2.27	0.51
1:a:591:ALA:HA	1:8:499:ASN:ND2	2.26	0.51
1:g:472:THR:HB	1:g:475:GLU:OE1	2.10	0.51
1:i:242:THR:HG21	1:i:293:PHE:CE1	2.45	0.51
1:n:472:THR:HB	1:n:475:GLU:OE1	2.10	0.51
1:p:242:THR:HG21	1:p:293:PHE:CE1	2.45	0.51
1:q:226:SER:HG	1:q:319:ASN:H	1.55	0.51
1:r:591:ALA:HA	1:s:499:ASN:ND2	2.25	0.51
1:v:240:VAL:HG13	1:v:686:TRP:HB2	1.92	0.51
1:1:218:GLY:HA3	1:1:409:ASN:HA	1.90	0.51
1:1:415:TYR:OH	1:1:643:HIS:O	2.27	0.51
1:2:472:THR:HB	1:2:475:GLU:OE1	2.10	0.51
1:3:415:TYR:OH	1:3:643:HIS:O	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:472:THR:HB	1:4:475:GLU:OE1	2.10	0.51
1:5:485:CYS:HG	1:5:578:TYR:HB2	1.73	0.51
1:7:472:THR:HB	1:7:475:GLU:OE1	2.10	0.51
1:8:242:THR:HG21	1:8:293:PHE:CE1	2.45	0.51
1:E:504:ALA:O	1:E:508:ALA:HB2	2.11	0.51
1:K:591:ALA:HA	1:a:499:ASN:ND2	2.25	0.51
1:O:373:MET:HE3	1:P:663:PHE:HA	1.92	0.51
1:O:504:ALA:O	1:O:508:ALA:HB2	2.11	0.51
1:Q:504:ALA:O	1:Q:508:ALA:HB2	2.11	0.51
1:R:271:ASP:O	1:U:434:ARG:NH2	2.44	0.51
1:S:373:MET:HE3	1:d:663:PHE:HA	1.91	0.51
1:T:499:ASN:ND2	1:l:591:ALA:HA	2.25	0.51
1:T:530:LYS:HG2	1:T:531:ASP:N	2.23	0.51
1:V:242:THR:HG21	1:V:293:PHE:CE1	2.45	0.51
1:Y:472:THR:HB	1:Y:475:GLU:OE1	2.10	0.51
1:Z:242:THR:HG21	1:Z:293:PHE:CE1	2.45	0.51
1:a:242:THR:HG21	1:a:293:PHE:CE1	2.45	0.51
1:b:373:MET:HE3	1:o:663:PHE:HA	1.91	0.51
1:g:373:MET:HE3	1:l:663:PHE:HA	1.91	0.51
1:g:418:GLU:OE2	1:g:642:LYS:N	2.42	0.51
1:m:530:LYS:HG2	1:m:531:ASP:N	2.23	0.51
1:o:242:THR:HG21	1:o:293:PHE:CE1	2.45	0.51
1:p:472:THR:HB	1:p:475:GLU:OE1	2.10	0.51
1:q:271:ASP:O	1:s:434:ARG:NH2	2.44	0.51
1:t:591:ALA:HA	1:u:499:ASN:ND2	2.25	0.51
1:v:242:THR:HG21	1:v:293:PHE:CE1	2.45	0.51
1:2:242:THR:HG21	1:2:293:PHE:CE1	2.45	0.51
1:3:242:THR:HG21	1:3:293:PHE:CE1	2.45	0.51
1:5:472:THR:HB	1:5:475:GLU:OE1	2.10	0.51
1:6:472:THR:HB	1:6:475:GLU:OE1	2.10	0.51
1:A:240:VAL:HG13	1:A:686:TRP:HB2	1.92	0.51
1:A:418:GLU:OE2	1:A:642:LYS:N	2.42	0.51
1:B:591:ALA:HA	1:J:499:ASN:ND2	2.25	0.51
1:C:504:ALA:O	1:C:508:ALA:HB2	2.11	0.51
1:J:242:THR:HG21	1:J:293:PHE:CE1	2.45	0.51
1:M:418:GLU:OE2	1:M:642:LYS:N	2.42	0.51
1:M:472:THR:HB	1:M:475:GLU:OE1	2.10	0.51
1:O:591:ALA:HA	1:m:499:ASN:ND2	2.25	0.51
1:R:226:SER:HG	1:R:319:ASN:H	1.55	0.51
1:R:530:LYS:HG2	1:R:531:ASP:N	2.23	0.51
1:V:271:ASP:O	1:X:434:ARG:NH2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:472:THR:HB	1:V:475:GLU:OE1	2.10	0.51
1:X:242:THR:HG21	1:X:293:PHE:CE1	2.45	0.51
1:a:530:LYS:HG2	1:a:531:ASP:N	2.23	0.51
1:g:242:THR:HG21	1:g:293:PHE:CE1	2.45	0.51
1:g:504:ALA:O	1:g:508:ALA:HB2	2.11	0.51
1:i:418:GLU:OE2	1:i:642:LYS:N	2.42	0.51
1:i:430:GLN:NE2	1:j:353:PRO:HB3	2.24	0.51
1:j:373:MET:HE3	1:x:663:PHE:HA	1.91	0.51
1:j:415:TYR:OH	1:j:643:HIS:O	2.27	0.51
1:j:472:THR:HB	1:j:475:GLU:OE1	2.10	0.51
1:l:504:ALA:O	1:l:508:ALA:HB2	2.11	0.51
1:t:472:THR:HB	1:t:475:GLU:OE1	2.10	0.51
1:v:418:GLU:OE2	1:v:642:LYS:N	2.42	0.51
1:w:504:ALA:O	1:w:508:ALA:HB2	2.11	0.51
1:x:240:VAL:HG13	1:x:686:TRP:HB2	1.92	0.51
1:y:485:CYS:HG	1:y:578:TYR:HB2	1.75	0.51
1:1:591:ALA:HA	1:2:499:ASN:ND2	2.25	0.51
1:2:530:LYS:HG2	1:2:531:ASP:N	2.23	0.51
1:3:499:ASN:ND2	1:4:591:ALA:HA	2.25	0.51
1:3:530:LYS:HG2	1:3:531:ASP:N	2.23	0.51
1:4:504:ALA:O	1:4:508:ALA:HB2	2.11	0.51
1:A:530:LYS:HG2	1:A:531:ASP:N	2.23	0.51
1:C:242:THR:HG21	1:C:293:PHE:CE1	2.45	0.51
1:G:472:THR:HB	1:G:475:GLU:OE1	2.10	0.51
1:H:226:SER:HG	1:H:319:ASN:H	1.56	0.51
1:H:242:THR:HG21	1:H:293:PHE:CE1	2.45	0.51
1:J:530:LYS:HG2	1:J:531:ASP:N	2.23	0.51
1:K:504:ALA:O	1:K:508:ALA:HB2	2.11	0.51
1:M:530:LYS:HG2	1:M:531:ASP:N	2.23	0.51
1:N:466:TYR:CD1	1:P:553:LYS:HG2	2.45	0.51
1:U:240:VAL:HG13	1:U:686:TRP:HB2	1.92	0.51
1:U:472:THR:HB	1:U:475:GLU:OE1	2.10	0.51
1:X:240:VAL:HG13	1:X:686:TRP:HB2	1.92	0.51
1:X:499:ASN:ND2	1:e:591:ALA:HA	2.26	0.51
1:X:663:PHE:HA	1:f:373:MET:HE3	1.91	0.51
1:c:591:ALA:HA	1:o:499:ASN:ND2	2.26	0.51
1:h:472:THR:HB	1:h:475:GLU:OE1	2.10	0.51
1:h:530:LYS:HG2	1:h:531:ASP:N	2.23	0.51
1:i:271:ASP:O	1:k:434:ARG:NH2	2.43	0.51
1:k:472:THR:HB	1:k:475:GLU:OE1	2.10	0.51
1:m:240:VAL:HG13	1:m:686:TRP:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:242:THR:HG21	1:m:293:PHE:CE1	2.45	0.51
1:n:663:PHE:HA	1:r:373:MET:HE3	1.91	0.51
1:o:434:ARG:NH2	1:p:271:ASP:O	2.43	0.51
1:q:530:LYS:HG2	1:q:531:ASP:N	2.23	0.51
1:s:472:THR:HB	1:s:475:GLU:OE1	2.10	0.51
1:x:504:ALA:O	1:x:508:ALA:HB2	2.11	0.51
1:x:591:ALA:HA	1:y:499:ASN:ND2	2.25	0.51
1:5:218:GLY:HA3	1:5:409:ASN:HA	1.91	0.51
1:5:242:THR:HG21	1:5:293:PHE:CE1	2.45	0.51
1:D:504:ALA:O	1:D:508:ALA:HB2	2.11	0.51
1:F:499:ASN:ND2	1:Q:591:ALA:HA	2.25	0.51
1:G:504:ALA:O	1:G:508:ALA:HB2	2.11	0.51
1:K:260:GLN:OE1	1:K:275:PHE:HE1	1.94	0.51
1:N:240:VAL:HG13	1:N:686:TRP:HB2	1.92	0.51
1:P:472:THR:HB	1:P:475:GLU:OE1	2.10	0.51
1:Q:240:VAL:HG13	1:Q:686:TRP:HB2	1.92	0.51
1:T:242:THR:HG21	1:T:293:PHE:CE1	2.45	0.51
1:T:504:ALA:O	1:T:508:ALA:HB2	2.11	0.51
1:U:242:THR:HG21	1:U:293:PHE:CE1	2.45	0.51
1:V:504:ALA:O	1:V:508:ALA:HB2	2.11	0.51
1:W:242:THR:HG21	1:W:293:PHE:CE1	2.45	0.51
1:Z:472:THR:HB	1:Z:475:GLU:OE1	2.10	0.51
1:d:240:VAL:HG13	1:d:686:TRP:HB2	1.92	0.51
1:i:240:VAL:HG13	1:i:686:TRP:HB2	1.92	0.51
1:m:591:ALA:HA	1:n:499:ASN:ND2	2.25	0.51
1:n:240:VAL:HG13	1:n:686:TRP:HB2	1.92	0.51
1:s:240:VAL:HG13	1:s:686:TRP:HB2	1.92	0.51
1:s:242:THR:HG21	1:s:293:PHE:CE1	2.45	0.51
1:v:530:LYS:HG2	1:v:531:ASP:N	2.23	0.51
1:w:271:ASP:O	1:y:434:ARG:NH2	2.44	0.51
1:4:260:GLN:OE1	1:4:275:PHE:HE1	1.94	0.51
1:4:418:GLU:OE2	1:4:642:LYS:N	2.42	0.51
1:8:472:THR:HB	1:8:475:GLU:OE1	2.10	0.51
1:C:430:GLN:NE2	1:b:353:PRO:HB3	2.24	0.51
1:D:472:THR:HB	1:D:475:GLU:OE1	2.10	0.51
1:G:242:THR:HG21	1:G:293:PHE:CE1	2.45	0.51
1:H:218:GLY:HA3	1:H:409:ASN:HA	1.91	0.51
1:M:242:THR:HG21	1:M:293:PHE:CE1	2.45	0.51
1:P:415:TYR:OH	1:P:643:HIS:O	2.27	0.51
1:S:260:GLN:OE1	1:S:275:PHE:HE1	1.94	0.51
1:T:240:VAL:HG13	1:T:686:TRP:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:510:LYS:HA	1:W:520:VAL:HG23	1.93	0.51
1:c:242:THR:HG21	1:c:293:PHE:CE1	2.45	0.51
1:c:663:PHE:HA	1:s:373:MET:HE3	1.91	0.51
1:e:242:THR:HG21	1:e:293:PHE:CE1	2.45	0.51
1:f:353:PRO:HB3	1:g:430:GLN:NE2	2.24	0.51
1:h:418:GLU:OE2	1:h:642:LYS:N	2.42	0.51
1:k:504:ALA:O	1:k:508:ALA:HB2	2.11	0.51
1:l:240:VAL:HG13	1:l:686:TRP:HB2	1.92	0.51
1:o:240:VAL:HG13	1:o:686:TRP:HB2	1.92	0.51
1:p:504:ALA:O	1:p:508:ALA:HB2	2.11	0.51
1:r:260:GLN:OE1	1:r:275:PHE:HE1	1.94	0.51
1:r:472:THR:HB	1:r:475:GLU:OE1	2.10	0.51
1:t:242:THR:HG21	1:t:293:PHE:CE1	2.45	0.51
1:z:591:ALA:HA	1:1:499:ASN:ND2	2.25	0.51
1:6:242:THR:HG21	1:6:293:PHE:CE1	2.45	0.51
1:A:271:ASP:O	1:I:434:ARG:NH2	2.44	0.51
1:A:510:LYS:HA	1:A:520:VAL:HG23	1.93	0.51
1:A:709:GLN:NE2	1:A:711:GLY:O	2.44	0.51
1:E:271:ASP:O	1:F:434:ARG:NH2	2.44	0.51
1:E:709:GLN:NE2	1:E:711:GLY:O	2.44	0.51
1:I:472:THR:HB	1:I:475:GLU:OE1	2.10	0.51
1:J:434:ARG:NH2	1:L:271:ASP:O	2.44	0.51
1:K:418:GLU:OE2	1:K:642:LYS:N	2.42	0.51
1:K:709:GLN:NE2	1:K:711:GLY:O	2.44	0.51
1:M:240:VAL:HG13	1:M:686:TRP:HB2	1.92	0.51
1:M:260:GLN:OE1	1:M:275:PHE:HE1	1.94	0.51
1:M:510:LYS:HA	1:M:520:VAL:HG23	1.93	0.51
1:O:240:VAL:HG13	1:O:686:TRP:HB2	1.92	0.51
1:R:240:VAL:HG13	1:R:686:TRP:HB2	1.92	0.51
1:T:472:THR:HB	1:T:475:GLU:OE1	2.10	0.51
1:T:591:ALA:HA	1:d:499:ASN:ND2	2.25	0.51
1:U:373:MET:HE3	1:e:663:PHE:HA	1.91	0.51
1:X:709:GLN:NE2	1:X:711:GLY:O	2.44	0.51
1:Y:504:ALA:O	1:Y:508:ALA:HB2	2.11	0.51
1:Y:530:LYS:HG2	1:Y:531:ASP:N	2.23	0.51
1:c:709:GLN:NE2	1:c:711:GLY:O	2.44	0.51
1:d:510:LYS:HA	1:d:520:VAL:HG23	1.93	0.51
1:e:709:GLN:NE2	1:e:711:GLY:O	2.44	0.51
1:f:271:ASP:O	1:g:434:ARG:NH2	2.44	0.51
1:h:242:THR:HG21	1:h:293:PHE:CE1	2.45	0.51
1:h:260:GLN:OE1	1:h:275:PHE:HE1	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:373:MET:HE3	1:i:663:PHE:HA	1.91	0.51
1:h:504:ALA:O	1:h:508:ALA:HB2	2.11	0.51
1:h:510:LYS:HA	1:h:520:VAL:HG23	1.93	0.51
1:m:504:ALA:O	1:m:508:ALA:HB2	2.11	0.51
1:o:472:THR:HB	1:o:475:GLU:OE1	2.10	0.51
1:o:709:GLN:NE2	1:o:711:GLY:O	2.44	0.51
1:q:504:ALA:O	1:q:508:ALA:HB2	2.11	0.51
1:r:242:THR:HG21	1:r:293:PHE:CE1	2.45	0.51
1:s:418:GLU:OE2	1:s:642:LYS:N	2.42	0.51
1:t:504:ALA:O	1:t:508:ALA:HB2	2.11	0.51
1:t:530:LYS:HG2	1:t:531:ASP:N	2.23	0.51
1:u:434:ARG:NH2	1:v:271:ASP:O	2.44	0.51
1:v:510:LYS:HA	1:v:520:VAL:HG23	1.93	0.51
1:v:709:GLN:NE2	1:v:711:GLY:O	2.44	0.51
1:x:472:THR:HB	1:x:475:GLU:OE1	2.10	0.51
1:z:271:ASP:O	1:2:434:ARG:NH2	2.44	0.51
1:4:218:GLY:HA3	1:4:409:ASN:HA	1.91	0.51
1:4:709:GLN:NE2	1:4:711:GLY:O	2.44	0.51
1:6:510:LYS:HA	1:6:520:VAL:HG23	1.93	0.51
1:7:530:LYS:HG2	1:7:531:ASP:N	2.23	0.51
1:8:504:ALA:O	1:8:508:ALA:HB2	2.11	0.51
1:B:242:THR:HG21	1:B:293:PHE:CE1	2.45	0.51
1:B:499:ASN:ND2	1:L:591:ALA:HA	2.25	0.51
1:B:510:LYS:HA	1:B:520:VAL:HG23	1.93	0.51
1:C:434:ARG:NH2	1:b:271:ASP:O	2.44	0.51
1:D:434:ARG:NH2	1:N:271:ASP:O	2.44	0.51
1:G:530:LYS:HG2	1:G:531:ASP:N	2.23	0.51
1:I:232:ASP:OD1	1:I:233:SER:N	2.44	0.51
1:I:510:LYS:HA	1:I:520:VAL:HG23	1.93	0.51
1:J:504:ALA:O	1:J:508:ALA:HB2	2.11	0.51
1:K:218:GLY:HA3	1:K:409:ASN:HA	1.91	0.51
1:L:510:LYS:HA	1:L:520:VAL:HG23	1.93	0.51
1:M:373:MET:HE3	1:N:663:PHE:HA	1.91	0.51
1:M:504:ALA:O	1:M:508:ALA:HB2	2.11	0.51
1:O:472:THR:HB	1:O:475:GLU:OE1	2.10	0.51
1:P:530:LYS:HG2	1:P:531:ASP:N	2.23	0.51
1:Q:472:THR:HB	1:Q:475:GLU:OE1	2.10	0.51
1:Q:510:LYS:HA	1:Q:520:VAL:HG23	1.93	0.51
1:R:591:ALA:HA	1:S:499:ASN:ND2	2.25	0.51
1:S:242:THR:HG21	1:S:293:PHE:CE1	2.45	0.51
1:S:472:THR:HB	1:S:475:GLU:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:510:LYS:HA	1:U:520:VAL:HG23	1.93	0.51
1:U:709:GLN:NE2	1:U:711:GLY:O	2.44	0.51
1:X:472:THR:HB	1:X:475:GLU:OE1	2.10	0.51
1:Y:260:GLN:OE1	1:Y:275:PHE:HE1	1.94	0.51
1:Z:504:ALA:O	1:Z:508:ALA:HB2	2.11	0.51
1:Z:591:ALA:HA	1:4:499:ASN:ND2	2.25	0.51
1:a:232:ASP:OD1	1:a:233:SER:N	2.44	0.51
1:a:504:ALA:O	1:a:508:ALA:HB2	2.11	0.51
1:a:564:GLU:OE2	1:a:614:TYR:OH	2.15	0.51
1:b:472:THR:HB	1:b:475:GLU:OE1	2.10	0.51
1:b:709:GLN:NE2	1:b:711:GLY:O	2.44	0.51
1:c:472:THR:HB	1:c:475:GLU:OE1	2.10	0.51
1:c:504:ALA:O	1:c:508:ALA:HB2	2.11	0.51
1:e:472:THR:HB	1:e:475:GLU:OE1	2.10	0.51
1:f:472:THR:HB	1:f:475:GLU:OE1	2.10	0.51
1:f:591:ALA:HA	1:h:499:ASN:ND2	2.26	0.51
1:g:564:GLU:OE2	1:g:614:TYR:OH	2.15	0.51
1:g:709:GLN:NE2	1:g:711:GLY:O	2.44	0.51
1:h:240:VAL:HG13	1:h:686:TRP:HB2	1.92	0.51
1:k:485:CYS:HG	1:k:578:TYR:HB2	1.76	0.51
1:l:472:THR:HB	1:l:475:GLU:OE1	2.10	0.51
1:m:472:THR:HB	1:m:475:GLU:OE1	2.10	0.51
1:n:510:LYS:HA	1:n:520:VAL:HG23	1.93	0.51
1:r:709:GLN:NE2	1:r:711:GLY:O	2.44	0.51
1:s:510:LYS:HA	1:s:520:VAL:HG23	1.93	0.51
1:u:226:SER:HG	1:u:319:ASN:H	1.56	0.51
1:u:232:ASP:OD1	1:u:233:SER:N	2.44	0.51
1:u:472:THR:HB	1:u:475:GLU:OE1	2.10	0.51
1:v:504:ALA:O	1:v:508:ALA:HB2	2.11	0.51
1:w:242:THR:HG21	1:w:293:PHE:CE1	2.45	0.51
1:z:510:LYS:HA	1:z:520:VAL:HG23	1.93	0.51
1:1:510:LYS:HA	1:1:520:VAL:HG23	1.93	0.51
1:2:504:ALA:O	1:2:508:ALA:HB2	2.11	0.51
1:3:271:ASP:O	1:4:434:ARG:NH2	2.44	0.51
1:3:504:ALA:O	1:3:508:ALA:HB2	2.11	0.51
1:5:709:GLN:NE2	1:5:711:GLY:O	2.44	0.51
1:7:260:GLN:OE1	1:7:275:PHE:HE1	1.94	0.51
1:7:504:ALA:O	1:7:508:ALA:HB2	2.11	0.51
1:8:226:SER:HG	1:8:319:ASN:H	1.55	0.51
1:A:504:ALA:O	1:A:508:ALA:HB2	2.11	0.51
1:B:226:SER:HG	1:B:319:ASN:H	1.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:260:GLN:OE1	1:B:275:PHE:HE1	1.94	0.51
1:C:232:ASP:OD1	1:C:233:SER:N	2.44	0.51
1:C:663:PHE:HA	1:D:373:MET:HE3	1.91	0.51
1:C:709:GLN:NE2	1:C:711:GLY:O	2.44	0.51
1:E:242:THR:HG21	1:E:293:PHE:CE1	2.45	0.51
1:H:591:ALA:HA	1:W:499:ASN:ND2	2.25	0.51
1:H:709:GLN:NE2	1:H:711:GLY:O	2.44	0.51
1:K:434:ARG:NH2	1:a:271:ASP:O	2.44	0.51
1:K:499:ASN:ND2	1:8:591:ALA:HA	2.25	0.51
1:M:499:ASN:ND2	1:b:591:ALA:HA	2.26	0.51
1:P:232:ASP:OD1	1:P:233:SER:N	2.44	0.51
1:S:434:ARG:NH2	1:U:271:ASP:O	2.44	0.51
1:S:709:GLN:NE2	1:S:711:GLY:O	2.44	0.51
1:U:418:GLU:OE2	1:U:642:LYS:N	2.42	0.51
1:b:504:ALA:O	1:b:508:ALA:HB2	2.11	0.51
1:c:485:CYS:HG	1:c:578:TYR:HB2	1.75	0.51
1:d:434:ARG:NH2	1:l:271:ASP:O	2.44	0.51
1:e:504:ALA:O	1:e:508:ALA:HB2	2.11	0.51
1:f:709:GLN:NE2	1:f:711:GLY:O	2.44	0.51
1:g:663:PHE:HA	1:k:373:MET:HE3	1.91	0.51
1:k:232:ASP:OD1	1:k:233:SER:N	2.44	0.51
1:n:709:GLN:NE2	1:n:711:GLY:O	2.44	0.51
1:q:591:ALA:HA	1:r:499:ASN:ND2	2.25	0.51
1:s:709:GLN:NE2	1:s:711:GLY:O	2.44	0.51
1:u:510:LYS:HA	1:u:520:VAL:HG23	1.93	0.51
1:w:709:GLN:NE2	1:w:711:GLY:O	2.44	0.51
1:x:510:LYS:HA	1:x:520:VAL:HG23	1.93	0.51
1:z:709:GLN:NE2	1:z:711:GLY:O	2.44	0.51
1:1:242:THR:HG21	1:1:293:PHE:CE1	2.45	0.51
1:3:232:ASP:OD1	1:3:233:SER:N	2.44	0.51
1:3:564:GLU:OE2	1:3:614:TYR:OH	2.15	0.51
1:5:499:ASN:ND2	1:7:591:ALA:HA	2.25	0.51
1:5:591:ALA:HA	1:6:499:ASN:ND2	2.25	0.51
1:F:242:THR:HG21	1:F:293:PHE:CE1	2.45	0.51
1:H:434:ARG:NH2	1:W:271:ASP:O	2.44	0.51
1:H:499:ASN:ND2	1:Y:591:ALA:HA	2.25	0.51
1:L:260:GLN:OE1	1:L:275:PHE:HE1	1.94	0.51
1:L:709:GLN:NE2	1:L:711:GLY:O	2.44	0.51
1:M:232:ASP:OD1	1:M:233:SER:N	2.44	0.51
1:O:271:ASP:O	1:n:434:ARG:NH2	2.44	0.51
1:O:510:LYS:HA	1:O:520:VAL:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:504:ALA:O	1:P:508:ALA:HB2	2.11	0.51
1:R:260:GLN:OE1	1:R:275:PHE:HE1	1.94	0.51
1:R:434:ARG:NH2	1:S:271:ASP:O	2.43	0.51
1:R:504:ALA:O	1:R:508:ALA:HB2	2.11	0.51
1:U:226:SER:HG	1:U:319:ASN:H	1.55	0.51
1:X:232:ASP:OD1	1:X:233:SER:N	2.44	0.51
1:Z:560:LEU:HB3	1:Z:727:PRO:HD3	1.93	0.51
1:Z:709:GLN:NE2	1:Z:711:GLY:O	2.44	0.51
1:c:530:LYS:HG2	1:c:531:ASP:N	2.23	0.51
1:d:709:GLN:NE2	1:d:711:GLY:O	2.44	0.51
1:e:560:LEU:HB3	1:e:727:PRO:HD3	1.94	0.51
1:f:499:ASN:ND2	1:g:591:ALA:HA	2.25	0.51
1:f:504:ALA:O	1:f:508:ALA:HB2	2.11	0.51
1:g:232:ASP:OD1	1:g:233:SER:N	2.44	0.51
1:h:232:ASP:OD1	1:h:233:SER:N	2.44	0.51
1:i:472:THR:HB	1:i:475:GLU:OE1	2.10	0.51
1:j:232:ASP:OD1	1:j:233:SER:N	2.44	0.51
1:j:530:LYS:HG2	1:j:531:ASP:N	2.23	0.51
1:o:232:ASP:OD1	1:o:233:SER:N	2.44	0.51
1:o:260:GLN:OE1	1:o:275:PHE:HE1	1.94	0.51
1:q:240:VAL:HG13	1:q:686:TRP:HB2	1.92	0.51
1:q:260:GLN:OE1	1:q:275:PHE:HE1	1.94	0.51
1:q:560:LEU:HB3	1:q:727:PRO:HD3	1.93	0.51
1:y:242:THR:HG21	1:y:293:PHE:CE1	2.45	0.51
1:z:260:GLN:OE1	1:z:275:PHE:HE1	1.94	0.51
1:1:260:GLN:OE1	1:1:275:PHE:HE1	1.94	0.51
1:5:502:ASN:HA	1:7:450:THR:OG1	2.11	0.51
1:7:510:LYS:HA	1:7:520:VAL:HG23	1.93	0.51
1:8:709:GLN:NE2	1:8:711:GLY:O	2.44	0.51
1:A:591:ALA:HA	1:G:499:ASN:ND2	2.26	0.50
1:C:564:GLU:OE2	1:C:614:TYR:OH	2.15	0.50
1:D:232:ASP:OD1	1:D:233:SER:N	2.44	0.50
1:E:472:THR:HB	1:E:475:GLU:OE1	2.10	0.50
1:H:502:ASN:HA	1:Y:450:THR:OG1	2.11	0.50
1:I:504:ALA:O	1:I:508:ALA:HB2	2.11	0.50
1:L:240:VAL:HG13	1:L:686:TRP:HB2	1.92	0.50
1:M:502:ASN:HA	1:b:450:THR:OG1	2.11	0.50
1:O:232:ASP:OD1	1:O:233:SER:N	2.44	0.50
1:O:242:THR:HG21	1:O:293:PHE:CE1	2.45	0.50
1:R:560:LEU:HB3	1:R:727:PRO:HD3	1.94	0.50
1:T:271:ASP:O	1:l:434:ARG:NH2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:434:ARG:NH2	1:e:271:ASP:O	2.44	0.50
1:W:260:GLN:OE1	1:W:275:PHE:HE1	1.94	0.50
1:Y:510:LYS:HA	1:Y:520:VAL:HG23	1.93	0.50
1:c:560:LEU:HB3	1:c:727:PRO:HD3	1.94	0.50
1:d:242:THR:HG21	1:d:293:PHE:CE1	2.45	0.50
1:f:450:THR:OG1	1:h:502:ASN:HA	2.11	0.50
1:i:591:ALA:HA	1:j:499:ASN:ND2	2.25	0.50
1:j:504:ALA:O	1:j:508:ALA:HB2	2.11	0.50
1:l:510:LYS:HA	1:l:520:VAL:HG23	1.93	0.50
1:q:434:ARG:NH2	1:r:271:ASP:O	2.43	0.50
1:r:434:ARG:NH2	1:s:271:ASP:O	2.44	0.50
1:s:226:SER:HG	1:s:319:ASN:H	1.55	0.50
1:z:434:ARG:NH2	1:1:271:ASP:O	2.44	0.50
1:z:450:THR:OG1	1:1:502:ASN:HA	2.12	0.50
1:1:504:ALA:O	1:1:508:ALA:HB2	2.11	0.50
1:3:418:GLU:OE2	1:3:642:LYS:N	2.42	0.50
1:3:510:LYS:HA	1:3:520:VAL:HG23	1.93	0.50
1:5:434:ARG:NH2	1:6:271:ASP:O	2.44	0.50
1:6:591:ALA:HA	1:7:499:ASN:ND2	2.26	0.50
1:8:560:LEU:HB3	1:8:727:PRO:HD3	1.93	0.50
1:B:271:ASP:O	1:L:434:ARG:NH2	2.44	0.50
1:B:502:ASN:HA	1:L:450:THR:OG1	2.12	0.50
1:B:504:ALA:O	1:B:508:ALA:HB2	2.11	0.50
1:C:436:MET:HE1	1:C:473:MET:HB3	1.93	0.50
1:C:560:LEU:HB3	1:C:727:PRO:HD3	1.93	0.50
1:C:591:ALA:HA	1:b:499:ASN:ND2	2.25	0.50
1:F:260:GLN:OE1	1:F:275:PHE:HE1	1.94	0.50
1:G:240:VAL:HG13	1:G:686:TRP:HB2	1.92	0.50
1:G:709:GLN:NE2	1:G:711:GLY:O	2.44	0.50
1:H:504:ALA:O	1:H:508:ALA:HB2	2.11	0.50
1:O:321:GLN:NE2	1:P:340:SER:HA	2.27	0.50
1:P:260:GLN:OE1	1:P:275:PHE:HE1	1.94	0.50
1:R:709:GLN:NE2	1:R:711:GLY:O	2.44	0.50
1:T:560:LEU:HB3	1:T:727:PRO:HD3	1.94	0.50
1:U:504:ALA:O	1:U:508:ALA:HB2	2.11	0.50
1:V:450:THR:OG1	1:e:502:ASN:HA	2.12	0.50
1:V:560:LEU:HB3	1:V:727:PRO:HD3	1.93	0.50
1:V:709:GLN:NE2	1:V:711:GLY:O	2.44	0.50
1:W:591:ALA:HA	1:Y:499:ASN:ND2	2.26	0.50
1:a:418:GLU:OE2	1:a:642:LYS:N	2.42	0.50
1:a:510:LYS:HA	1:a:520:VAL:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:709:GLN:NE2	1:a:711:GLY:O	2.44	0.50
1:c:434:ARG:NH2	1:o:271:ASP:O	2.44	0.50
1:c:502:ASN:HA	1:p:450:THR:OG1	2.12	0.50
1:d:450:THR:OG1	1:l:502:ASN:HA	2.12	0.50
1:e:232:ASP:OD1	1:e:233:SER:N	2.44	0.50
1:g:230:HIS:O	1:g:245:THR:OG1	2.19	0.50
1:h:709:GLN:NE2	1:h:711:GLY:O	2.44	0.50
1:i:499:ASN:ND2	1:k:591:ALA:HA	2.27	0.50
1:j:260:GLN:OE1	1:j:275:PHE:HE1	1.94	0.50
1:l:232:ASP:OD1	1:l:233:SER:N	2.44	0.50
1:l:242:THR:HG21	1:l:293:PHE:CE1	2.45	0.50
1:m:560:LEU:HB3	1:m:727:PRO:HD3	1.94	0.50
1:n:242:THR:HG21	1:n:293:PHE:CE1	2.45	0.50
1:q:709:GLN:NE2	1:q:711:GLY:O	2.44	0.50
1:r:504:ALA:O	1:r:508:ALA:HB2	2.11	0.50
1:t:240:VAL:HG13	1:t:686:TRP:HB2	1.92	0.50
1:t:271:ASP:O	1:v:434:ARG:NH2	2.44	0.50
1:t:709:GLN:NE2	1:t:711:GLY:O	2.44	0.50
1:w:232:ASP:OD1	1:w:233:SER:N	2.44	0.50
1:x:418:GLU:OE2	1:x:642:LYS:N	2.42	0.50
1:y:260:GLN:OE1	1:y:275:PHE:HE1	1.94	0.50
1:z:240:VAL:HG13	1:z:686:TRP:HB2	1.92	0.50
1:z:242:THR:HG21	1:z:293:PHE:CE1	2.45	0.50
1:1:240:VAL:HG13	1:1:686:TRP:HB2	1.92	0.50
1:3:260:GLN:OE1	1:3:275:PHE:HE1	1.94	0.50
1:3:709:GLN:NE2	1:3:711:GLY:O	2.44	0.50
1:6:260:GLN:OE1	1:6:275:PHE:HE1	1.94	0.50
1:6:504:ALA:O	1:6:508:ALA:HB2	2.11	0.50
1:B:240:VAL:HG13	1:B:686:TRP:HB2	1.92	0.50
1:C:502:ASN:HA	1:M:450:THR:OG1	2.12	0.50
1:D:242:THR:HG21	1:D:293:PHE:CE1	2.45	0.50
1:D:436:MET:HE1	1:D:473:MET:HB3	1.93	0.50
1:D:591:ALA:HA	1:N:499:ASN:ND2	2.27	0.50
1:E:232:ASP:OD1	1:E:233:SER:N	2.44	0.50
1:F:504:ALA:O	1:F:508:ALA:HB2	2.11	0.50
1:J:591:ALA:HA	1:L:499:ASN:ND2	2.25	0.50
1:L:560:LEU:HB3	1:L:727:PRO:HD3	1.93	0.50
1:M:709:GLN:NE2	1:M:711:GLY:O	2.44	0.50
1:N:472:THR:HB	1:N:475:GLU:OE1	2.10	0.50
1:N:709:GLN:NE2	1:N:711:GLY:O	2.44	0.50
1:O:405:LEU:HD21	1:O:411:PHE:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:434:ARG:NH2	1:m:271:ASP:O	2.43	0.50
1:O:502:ASN:HA	1:n:450:THR:OG1	2.12	0.50
1:O:560:LEU:HB3	1:O:727:PRO:HD3	1.94	0.50
1:O:709:GLN:NE2	1:O:711:GLY:O	2.44	0.50
1:Q:418:GLU:OE2	1:Q:642:LYS:N	2.42	0.50
1:Q:709:GLN:NE2	1:Q:711:GLY:O	2.44	0.50
1:S:504:ALA:O	1:S:508:ALA:HB2	2.11	0.50
1:U:232:ASP:OD1	1:U:233:SER:N	2.44	0.50
1:W:504:ALA:O	1:W:508:ALA:HB2	2.11	0.50
1:X:502:ASN:HA	1:e:450:THR:OG1	2.11	0.50
1:a:260:GLN:OE1	1:a:275:PHE:HE1	1.94	0.50
1:b:232:ASP:OD1	1:b:233:SER:N	2.44	0.50
1:b:445:TYR:CE1	1:b:467:GLN:HG3	2.47	0.50
1:c:232:ASP:OD1	1:c:233:SER:N	2.44	0.50
1:c:271:ASP:O	1:p:434:ARG:NH2	2.44	0.50
1:e:485:CYS:HG	1:e:578:TYR:HB2	1.76	0.50
1:e:530:LYS:HG2	1:e:531:ASP:N	2.23	0.50
1:f:232:ASP:OD1	1:f:233:SER:N	2.44	0.50
1:g:502:ASN:HA	1:h:450:THR:OG1	2.12	0.50
1:g:560:LEU:HB3	1:g:727:PRO:HD3	1.94	0.50
1:i:434:ARG:NH2	1:j:271:ASP:O	2.43	0.50
1:k:436:MET:HE1	1:k:473:MET:HB3	1.94	0.50
1:l:560:LEU:HB3	1:l:727:PRO:HD3	1.94	0.50
1:l:709:GLN:NE2	1:l:711:GLY:O	2.44	0.50
1:m:510:LYS:HA	1:m:520:VAL:HG23	1.93	0.50
1:o:450:THR:OG1	1:p:502:ASN:HA	2.12	0.50
1:p:560:LEU:HB3	1:p:727:PRO:HD3	1.93	0.50
1:p:709:GLN:NE2	1:p:711:GLY:O	2.44	0.50
1:r:450:THR:OG1	1:s:502:ASN:HA	2.12	0.50
1:t:499:ASN:ND2	1:v:591:ALA:HA	2.26	0.50
1:u:504:ALA:O	1:u:508:ALA:HB2	2.11	0.50
1:w:472:THR:HB	1:w:475:GLU:OE1	2.10	0.50
1:x:560:LEU:HB3	1:x:727:PRO:HD3	1.93	0.50
1:z:499:ASN:ND2	1:2:591:ALA:HA	2.25	0.50
1:1:226:SER:HG	1:1:319:ASN:H	1.54	0.50
1:5:504:ALA:O	1:5:508:ALA:HB2	2.11	0.50
1:6:564:GLU:OE2	1:6:614:TYR:OH	2.15	0.50
1:8:530:LYS:HG2	1:8:531:ASP:N	2.23	0.50
1:A:232:ASP:OD1	1:A:233:SER:N	2.44	0.50
1:B:472:THR:HB	1:B:475:GLU:OE1	2.10	0.50
1:F:560:LEU:HB3	1:F:727:PRO:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:434:ARG:NH2	1:I:271:ASP:O	2.43	0.50
1:G:450:THR:OG1	1:I:502:ASN:HA	2.12	0.50
1:I:709:GLN:NE2	1:I:711:GLY:O	2.44	0.50
1:J:405:LEU:HD21	1:J:411:PHE:HB2	1.94	0.50
1:J:450:THR:OG1	1:L:502:ASN:HA	2.12	0.50
1:J:560:LEU:HB3	1:J:727:PRO:HD3	1.93	0.50
1:K:271:ASP:O	1:8:434:ARG:NH2	2.43	0.50
1:K:560:LEU:HB3	1:K:727:PRO:HD3	1.94	0.50
1:L:242:THR:HG21	1:L:293:PHE:CE1	2.45	0.50
1:N:260:GLN:OE1	1:N:275:PHE:HE1	1.94	0.50
1:S:450:THR:OG1	1:U:502:ASN:HA	2.12	0.50
1:T:450:THR:OG1	1:d:502:ASN:HA	2.12	0.50
1:T:510:LYS:HA	1:T:520:VAL:HG23	1.93	0.50
1:V:502:ASN:HA	1:X:450:THR:OG1	2.12	0.50
1:X:271:ASP:O	1:e:434:ARG:NH2	2.44	0.50
1:a:436:MET:HE1	1:a:473:MET:HB3	1.94	0.50
1:a:445:TYR:CE1	1:a:467:GLN:HG3	2.47	0.50
1:a:450:THR:OG1	1:8:502:ASN:HA	2.12	0.50
1:b:418:GLU:OE2	1:b:642:LYS:N	2.42	0.50
1:c:450:THR:OG1	1:o:502:ASN:HA	2.12	0.50
1:d:436:MET:HE1	1:d:473:MET:HB3	1.94	0.50
1:d:591:ALA:HA	1:l:499:ASN:ND2	2.25	0.50
1:f:445:TYR:CE1	1:f:467:GLN:HG3	2.47	0.50
1:g:436:MET:HE1	1:g:473:MET:HB3	1.94	0.50
1:g:499:ASN:ND2	1:h:591:ALA:HA	2.25	0.50
1:i:260:GLN:OE1	1:i:275:PHE:HE1	1.94	0.50
1:i:709:GLN:NE2	1:i:711:GLY:O	2.44	0.50
1:k:242:THR:HG21	1:k:293:PHE:CE1	2.45	0.50
1:k:709:GLN:NE2	1:k:711:GLY:O	2.44	0.50
1:l:405:LEU:HD21	1:l:411:PHE:HB2	1.94	0.50
1:m:450:THR:OG1	1:n:502:ASN:HA	2.12	0.50
1:s:232:ASP:OD1	1:s:233:SER:N	2.44	0.50
1:s:504:ALA:O	1:s:508:ALA:HB2	2.11	0.50
1:t:434:ARG:NH2	1:u:271:ASP:O	2.43	0.50
1:t:450:THR:OG1	1:u:502:ASN:HA	2.12	0.50
1:u:260:GLN:OE1	1:u:275:PHE:HE1	1.94	0.50
1:v:232:ASP:OD1	1:v:233:SER:N	2.44	0.50
1:w:260:GLN:OE1	1:w:275:PHE:HE1	1.94	0.50
1:x:709:GLN:NE2	1:x:711:GLY:O	2.44	0.50
1:z:502:ASN:HA	1:2:450:THR:OG1	2.12	0.50
1:z:560:LEU:HB3	1:z:727:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:472:THR:HB	1:1:475:GLU:OE1	2.10	0.50
1:2:232:ASP:OD1	1:2:233:SER:N	2.44	0.50
1:2:405:LEU:HD21	1:2:411:PHE:HB2	1.94	0.50
1:3:436:MET:HE1	1:3:473:MET:HB3	1.94	0.50
1:3:445:TYR:CE1	1:3:467:GLN:HG3	2.47	0.50
1:4:560:LEU:HB3	1:4:727:PRO:HD3	1.94	0.50
1:6:709:GLN:NE2	1:6:711:GLY:O	2.44	0.50
1:A:434:ARG:NH2	1:G:271:ASP:O	2.44	0.50
1:B:445:TYR:CE1	1:B:467:GLN:HG3	2.47	0.50
1:B:450:THR:OG1	1:J:502:ASN:HA	2.12	0.50
1:C:499:ASN:ND2	1:M:591:ALA:HA	2.25	0.50
1:D:260:GLN:OE1	1:D:275:PHE:HE1	1.94	0.50
1:D:709:GLN:NE2	1:D:711:GLY:O	2.44	0.50
1:E:560:LEU:HB3	1:E:727:PRO:HD3	1.94	0.50
1:G:510:LYS:HA	1:G:520:VAL:HG23	1.93	0.50
1:H:560:LEU:HB3	1:H:727:PRO:HD3	1.94	0.50
1:I:242:THR:HG21	1:I:293:PHE:CE1	2.45	0.50
1:J:232:ASP:OD1	1:J:233:SER:N	2.44	0.50
1:N:436:MET:HE1	1:N:473:MET:HB3	1.93	0.50
1:O:260:GLN:OE1	1:O:275:PHE:HE1	1.94	0.50
1:O:450:THR:OG1	1:m:502:ASN:HA	2.12	0.50
1:Q:405:LEU:HD21	1:Q:411:PHE:HB2	1.94	0.50
1:Q:560:LEU:HB3	1:Q:727:PRO:HD3	1.94	0.50
1:T:232:ASP:OD1	1:T:233:SER:N	2.44	0.50
1:T:502:ASN:HA	1:l:450:THR:OG1	2.12	0.50
1:V:260:GLN:OE1	1:V:275:PHE:HE1	1.94	0.50
1:V:405:LEU:HD21	1:V:411:PHE:HB2	1.94	0.50
1:Y:709:GLN:NE2	1:Y:711:GLY:O	2.44	0.50
1:Z:434:ARG:NH2	1:4:271:ASP:O	2.43	0.50
1:Z:436:MET:HE1	1:Z:473:MET:HB3	1.94	0.50
1:Z:445:TYR:CE1	1:Z:467:GLN:HG3	2.47	0.50
1:Z:510:LYS:HA	1:Z:520:VAL:HG23	1.93	0.50
1:c:240:VAL:HG13	1:c:686:TRP:HB2	1.92	0.50
1:c:510:LYS:HA	1:c:520:VAL:HG23	1.93	0.50
1:d:560:LEU:HB3	1:d:727:PRO:HD3	1.94	0.50
1:f:436:MET:HE1	1:f:473:MET:HB3	1.94	0.50
1:i:232:ASP:OD1	1:i:233:SER:N	2.44	0.50
1:i:436:MET:HE1	1:i:473:MET:HB3	1.94	0.50
1:i:445:TYR:CE1	1:i:467:GLN:HG3	2.47	0.50
1:j:450:THR:OG1	1:k:502:ASN:HA	2.12	0.50
1:j:591:ALA:HA	1:k:499:ASN:ND2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:260:GLN:OE1	1:k:275:PHE:HE1	1.94	0.50
1:m:405:LEU:HD21	1:m:411:PHE:HB2	1.94	0.50
1:n:436:MET:HE1	1:n:473:MET:HB3	1.94	0.50
1:p:405:LEU:HD21	1:p:411:PHE:HB2	1.94	0.50
1:u:405:LEU:HD21	1:u:411:PHE:HB2	1.94	0.50
1:u:709:GLN:NE2	1:u:711:GLY:O	2.44	0.50
1:v:405:LEU:HD21	1:v:411:PHE:HB2	1.94	0.50
1:w:499:ASN:ND2	1:y:591:ALA:HA	2.26	0.50
1:w:560:LEU:HB3	1:w:727:PRO:HD3	1.94	0.50
1:y:504:ALA:O	1:y:508:ALA:HB2	2.11	0.50
1:y:560:LEU:HB3	1:y:727:PRO:HD3	1.94	0.50
1:1:450:THR:OG1	1:2:502:ASN:HA	2.12	0.50
1:1:709:GLN:NE2	1:1:711:GLY:O	2.44	0.50
1:2:560:LEU:HB3	1:2:727:PRO:HD3	1.94	0.50
1:3:405:LEU:HD21	1:3:411:PHE:HB2	1.94	0.50
1:5:405:LEU:HD21	1:5:411:PHE:HB2	1.94	0.50
1:5:560:LEU:HB3	1:5:727:PRO:HD3	1.94	0.50
1:7:709:GLN:NE2	1:7:711:GLY:O	2.44	0.50
1:8:436:MET:HE1	1:8:473:MET:HB3	1.94	0.50
1:8:445:TYR:CE1	1:8:467:GLN:HG3	2.47	0.50
1:A:472:THR:HB	1:A:475:GLU:OE1	2.10	0.50
1:B:709:GLN:NE2	1:B:711:GLY:O	2.44	0.50
1:E:260:GLN:OE1	1:E:275:PHE:HE1	1.94	0.50
1:E:499:ASN:ND2	1:F:591:ALA:HA	2.26	0.50
1:G:405:LEU:HD21	1:G:411:PHE:HB2	1.94	0.50
1:G:445:TYR:CE1	1:G:467:GLN:HG3	2.47	0.50
1:H:232:ASP:OD1	1:H:233:SER:N	2.44	0.50
1:H:405:LEU:HD21	1:H:411:PHE:HB2	1.94	0.50
1:H:445:TYR:CE1	1:H:467:GLN:HG3	2.47	0.50
1:I:260:GLN:OE1	1:I:275:PHE:HE1	1.94	0.50
1:I:405:LEU:HD21	1:I:411:PHE:HB2	1.94	0.50
1:L:232:ASP:OD1	1:L:233:SER:N	2.44	0.50
1:L:504:ALA:O	1:L:508:ALA:HB2	2.11	0.50
1:M:445:TYR:CE1	1:M:467:GLN:HG3	2.47	0.50
1:N:445:TYR:CE1	1:N:467:GLN:HG3	2.47	0.50
1:N:504:ALA:O	1:N:508:ALA:HB2	2.11	0.50
1:P:405:LEU:HD21	1:P:411:PHE:HB2	1.94	0.50
1:T:405:LEU:HD21	1:T:411:PHE:HB2	1.94	0.50
1:W:450:THR:OG1	1:Y:502:ASN:HA	2.12	0.50
1:W:709:GLN:NE2	1:W:711:GLY:O	2.44	0.50
1:X:260:GLN:OE1	1:X:275:PHE:HE1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:240:VAL:HG13	1:Y:686:TRP:HB2	1.92	0.50
1:Z:502:ASN:HA	1:3:450:THR:OG1	2.12	0.50
1:a:405:LEU:HD21	1:a:411:PHE:HB2	1.94	0.50
1:b:436:MET:HE1	1:b:473:MET:HB3	1.94	0.50
1:d:504:ALA:O	1:d:508:ALA:HB2	2.11	0.50
1:e:240:VAL:HG13	1:e:686:TRP:HB2	1.92	0.50
1:f:418:GLU:OE2	1:f:642:LYS:N	2.42	0.50
1:h:445:TYR:CE1	1:h:467:GLN:HG3	2.47	0.50
1:i:504:ALA:O	1:i:508:ALA:HB2	2.11	0.50
1:n:560:LEU:HB3	1:n:727:PRO:HD3	1.94	0.50
1:o:591:ALA:HA	1:p:499:ASN:ND2	2.25	0.50
1:p:260:GLN:OE1	1:p:275:PHE:HE1	1.94	0.50
1:q:510:LYS:HA	1:q:520:VAL:HG23	1.93	0.50
1:r:405:LEU:HD21	1:r:411:PHE:HB2	1.94	0.50
1:t:445:TYR:CE1	1:t:467:GLN:HG3	2.47	0.50
1:u:242:THR:HG21	1:u:293:PHE:CE1	2.45	0.50
1:x:405:LEU:HD21	1:x:411:PHE:HB2	1.94	0.50
1:z:232:ASP:OD1	1:z:233:SER:N	2.44	0.50
1:z:504:ALA:O	1:z:508:ALA:HB2	2.11	0.50
1:1:445:TYR:CE1	1:1:467:GLN:HG3	2.47	0.50
1:5:232:ASP:OD1	1:5:233:SER:N	2.44	0.50
1:8:510:LYS:HA	1:8:520:VAL:HG23	1.93	0.50
1:E:445:TYR:CE1	1:E:467:GLN:HG3	2.47	0.50
1:G:260:GLN:OE1	1:G:275:PHE:HE1	1.94	0.50
1:I:436:MET:HE1	1:I:473:MET:HB3	1.94	0.50
1:J:260:GLN:OE1	1:J:275:PHE:HE1	1.94	0.50
1:L:418:GLU:OE2	1:L:642:LYS:N	2.42	0.50
1:N:232:ASP:OD1	1:N:233:SER:N	2.44	0.50
1:O:499:ASN:ND2	1:n:591:ALA:HA	2.26	0.50
1:P:436:MET:HE1	1:P:473:MET:HB3	1.94	0.50
1:P:709:GLN:NE2	1:P:711:GLY:O	2.44	0.50
1:R:405:LEU:HD21	1:R:411:PHE:HB2	1.94	0.50
1:R:510:LYS:HA	1:R:520:VAL:HG23	1.93	0.50
1:S:405:LEU:HD21	1:S:411:PHE:HB2	1.94	0.50
1:S:436:MET:HE1	1:S:473:MET:HB3	1.94	0.50
1:U:445:TYR:CE1	1:U:467:GLN:HG3	2.47	0.50
1:V:499:ASN:ND2	1:X:591:ALA:HA	2.25	0.50
1:X:504:ALA:O	1:X:508:ALA:HB2	2.11	0.50
1:Z:232:ASP:OD1	1:Z:233:SER:N	2.44	0.50
1:b:622:LYS:HB2	1:b:644:PRO:HG3	1.94	0.50
1:e:510:LYS:HA	1:e:520:VAL:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:622:LYS:HB2	1:f:644:PRO:HG3	1.94	0.50
1:j:405:LEU:HD21	1:j:411:PHE:HB2	1.94	0.50
1:j:709:GLN:NE2	1:j:711:GLY:O	2.44	0.50
1:m:232:ASP:OD1	1:m:233:SER:N	2.44	0.50
1:n:504:ALA:O	1:n:508:ALA:HB2	2.11	0.50
1:o:504:ALA:O	1:o:508:ALA:HB2	2.11	0.50
1:r:436:MET:HE1	1:r:473:MET:HB3	1.94	0.50
1:t:405:LEU:HD21	1:t:411:PHE:HB2	1.94	0.50
1:t:510:LYS:HA	1:t:520:VAL:HG23	1.93	0.50
1:u:436:MET:HE1	1:u:473:MET:HB3	1.94	0.50
1:w:445:TYR:CE1	1:w:467:GLN:HG3	2.47	0.50
1:x:260:GLN:OE1	1:x:275:PHE:HE1	1.94	0.50
1:z:418:GLU:OE2	1:z:642:LYS:N	2.42	0.50
1:2:260:GLN:OE1	1:2:275:PHE:HE1	1.94	0.50
1:2:510:LYS:HA	1:2:520:VAL:HG23	1.93	0.50
1:3:230:HIS:O	1:3:245:THR:OG1	2.19	0.50
1:5:226:SER:HG	1:5:319:ASN:H	1.55	0.50
1:5:445:TYR:CE1	1:5:467:GLN:HG3	2.47	0.50
1:6:450:THR:OG1	1:7:502:ASN:HA	2.12	0.50
1:A:405:LEU:HD21	1:A:411:PHE:HB2	1.94	0.50
1:B:232:ASP:OD1	1:B:233:SER:N	2.44	0.50
1:B:405:LEU:HD21	1:B:411:PHE:HB2	1.94	0.50
1:C:230:HIS:O	1:C:245:THR:OG1	2.19	0.50
1:J:510:LYS:HA	1:J:520:VAL:HG23	1.93	0.50
1:K:232:ASP:OD1	1:K:233:SER:N	2.44	0.50
1:K:436:MET:HE1	1:K:473:MET:HB3	1.94	0.50
1:P:560:LEU:HB3	1:P:727:PRO:HD3	1.94	0.50
1:Q:260:GLN:OE1	1:Q:275:PHE:HE1	1.94	0.50
1:Y:560:LEU:HB3	1:Y:727:PRO:HD3	1.94	0.50
1:Z:450:THR:OG1	1:4:502:ASN:HA	2.12	0.50
1:b:560:LEU:HB3	1:b:727:PRO:HD3	1.94	0.50
1:c:436:MET:HE1	1:c:473:MET:HB3	1.94	0.50
1:e:436:MET:HE1	1:e:473:MET:HB3	1.94	0.50
1:f:502:ASN:HA	1:g:450:THR:OG1	2.12	0.50
1:g:530:LYS:HG2	1:g:531:ASP:N	2.23	0.50
1:j:436:MET:HE1	1:j:473:MET:HB3	1.94	0.50
1:j:510:LYS:HA	1:j:520:VAL:HG23	1.93	0.50
1:q:405:LEU:HD21	1:q:411:PHE:HB2	1.94	0.50
1:r:445:TYR:CE1	1:r:467:GLN:HG3	2.47	0.50
1:s:445:TYR:CE1	1:s:467:GLN:HG3	2.47	0.50
1:x:445:TYR:CE1	1:x:467:GLN:HG3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:418:GLU:OE2	1:y:642:LYS:N	2.42	0.50
1:1:405:LEU:HD21	1:1:411:PHE:HB2	1.94	0.50
1:1:564:GLU:OE2	1:1:614:TYR:OH	2.15	0.50
1:4:436:MET:HE1	1:4:473:MET:HB3	1.94	0.50
1:6:445:TYR:CE1	1:6:467:GLN:HG3	2.47	0.50
1:6:560:LEU:HB3	1:6:727:PRO:HD3	1.94	0.50
1:7:240:VAL:HG13	1:7:686:TRP:HB2	1.92	0.50
1:7:405:LEU:HD21	1:7:411:PHE:HB2	1.94	0.50
1:8:232:ASP:OD1	1:8:233:SER:N	2.44	0.50
1:C:450:THR:OG1	1:b:502:ASN:HA	2.12	0.50
1:C:530:LYS:HG2	1:C:531:ASP:N	2.23	0.50
1:E:434:ARG:NH2	1:Q:271:ASP:O	2.44	0.50
1:E:699:GLU:HG2	1:P:296:ARG:NE	2.27	0.50
1:F:418:GLU:OE2	1:F:642:LYS:N	2.42	0.50
1:G:232:ASP:OD1	1:G:233:SER:N	2.44	0.50
1:K:502:ASN:HA	1:8:450:THR:OG1	2.12	0.50
1:M:405:LEU:HD21	1:M:411:PHE:HB2	1.94	0.50
1:P:510:LYS:HA	1:P:520:VAL:HG23	1.93	0.50
1:Q:445:TYR:CE1	1:Q:467:GLN:HG3	2.47	0.50
1:T:709:GLN:NE2	1:T:711:GLY:O	2.44	0.50
1:V:510:LYS:HA	1:V:520:VAL:HG23	1.93	0.50
1:W:445:TYR:CE1	1:W:467:GLN:HG3	2.47	0.50
1:W:560:LEU:HB3	1:W:727:PRO:HD3	1.94	0.50
1:W:564:GLU:OE2	1:W:614:TYR:OH	2.15	0.50
1:X:622:LYS:HB2	1:X:644:PRO:HG3	1.94	0.50
1:Y:405:LEU:HD21	1:Y:411:PHE:HB2	1.94	0.50
1:a:434:ARG:NH2	1:8:271:ASP:O	2.44	0.50
1:a:622:LYS:HB2	1:a:644:PRO:HG3	1.94	0.50
1:f:560:LEU:HB3	1:f:727:PRO:HD3	1.94	0.50
1:h:405:LEU:HD21	1:h:411:PHE:HB2	1.94	0.50
1:j:560:LEU:HB3	1:j:727:PRO:HD3	1.94	0.50
1:k:510:LYS:HA	1:k:520:VAL:HG23	1.93	0.50
1:m:418:GLU:OE2	1:m:642:LYS:N	2.42	0.50
1:o:622:LYS:HB2	1:o:644:PRO:HG3	1.94	0.50
1:p:510:LYS:HA	1:p:520:VAL:HG23	1.93	0.50
1:s:260:GLN:OE1	1:s:275:PHE:HE1	1.94	0.50
1:t:232:ASP:OD1	1:t:233:SER:N	2.44	0.50
1:t:260:GLN:OE1	1:t:275:PHE:HE1	1.94	0.50
1:v:472:THR:HB	1:v:475:GLU:OE1	2.10	0.50
1:w:434:ARG:NH2	1:x:271:ASP:O	2.43	0.50
1:4:232:ASP:OD1	1:4:233:SER:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:405:LEU:HD21	1:4:411:PHE:HB2	1.94	0.50
1:7:445:TYR:CE1	1:7:467:GLN:HG3	2.47	0.50
1:7:560:LEU:HB3	1:7:727:PRO:HD3	1.94	0.50
1:A:450:THR:OG1	1:G:502:ASN:HA	2.11	0.49
1:B:434:ARG:NH2	1:J:271:ASP:O	2.43	0.49
1:C:260:GLN:OE1	1:C:275:PHE:HE1	1.94	0.49
1:D:450:THR:OG1	1:N:502:ASN:HA	2.11	0.49
1:D:510:LYS:HA	1:D:520:VAL:HG23	1.93	0.49
1:F:709:GLN:NE2	1:F:711:GLY:O	2.44	0.49
1:K:405:LEU:HD21	1:K:411:PHE:HB2	1.94	0.49
1:M:271:ASP:O	1:b:434:ARG:NH2	2.44	0.49
1:N:405:LEU:HD21	1:N:411:PHE:HB2	1.94	0.49
1:N:510:LYS:HA	1:N:520:VAL:HG23	1.93	0.49
1:S:445:TYR:CE1	1:S:467:GLN:HG3	2.47	0.49
1:U:260:GLN:OE1	1:U:275:PHE:HE1	1.94	0.49
1:W:511:TYR:HD2	1:W:520:VAL:HG22	1.77	0.49
1:X:510:LYS:HA	1:X:520:VAL:HG23	1.93	0.49
1:Y:445:TYR:CE1	1:Y:467:GLN:HG3	2.47	0.49
1:Z:260:GLN:OE1	1:Z:275:PHE:HE1	1.94	0.49
1:Z:271:ASP:O	1:3:434:ARG:NH2	2.44	0.49
1:Z:511:TYR:HD2	1:Z:520:VAL:HG22	1.77	0.49
1:f:434:ARG:NH2	1:h:271:ASP:O	2.44	0.49
1:i:405:LEU:HD21	1:i:411:PHE:HB2	1.94	0.49
1:i:510:LYS:HA	1:i:520:VAL:HG23	1.93	0.49
1:m:709:GLN:NE2	1:m:711:GLY:O	2.44	0.49
1:o:510:LYS:HA	1:o:520:VAL:HG23	1.93	0.49
1:x:434:ARG:NH2	1:y:271:ASP:O	2.44	0.49
1:y:709:GLN:NE2	1:y:711:GLY:O	2.44	0.49
1:1:232:ASP:OD1	1:1:233:SER:N	2.44	0.49
1:3:622:LYS:HB2	1:3:644:PRO:HG3	1.94	0.49
1:5:511:TYR:HD2	1:5:520:VAL:HG22	1.77	0.49
1:6:434:ARG:NH2	1:7:271:ASP:O	2.44	0.49
1:8:511:TYR:HD2	1:8:520:VAL:HG22	1.77	0.49
1:F:271:ASP:O	1:Q:434:ARG:NH2	2.44	0.49
1:F:445:TYR:CE1	1:F:467:GLN:HG3	2.47	0.49
1:H:510:LYS:HA	1:H:520:VAL:HG23	1.93	0.49
1:H:511:TYR:HD2	1:H:520:VAL:HG22	1.77	0.49
1:I:560:LEU:HB3	1:I:727:PRO:HD3	1.93	0.49
1:T:418:GLU:OE2	1:T:642:LYS:N	2.42	0.49
1:T:622:LYS:HB2	1:T:644:PRO:HG3	1.94	0.49
1:V:530:LYS:HG2	1:V:531:ASP:N	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:232:ASP:OD1	1:Y:233:SER:N	2.44	0.49
1:a:230:HIS:O	1:a:245:THR:OG1	2.19	0.49
1:b:511:TYR:HD2	1:b:520:VAL:HG22	1.77	0.49
1:l:511:TYR:HD2	1:l:520:VAL:HG22	1.77	0.49
1:u:560:LEU:HB3	1:u:727:PRO:HD3	1.93	0.49
1:x:450:THR:OG1	1:y:502:ASN:HA	2.12	0.49
1:y:510:LYS:HA	1:y:520:VAL:HG23	1.93	0.49
1:1:434:ARG:NH2	1:2:271:ASP:O	2.43	0.49
1:5:510:LYS:HA	1:5:520:VAL:HG23	1.93	0.49
1:6:511:TYR:HD2	1:6:520:VAL:HG22	1.78	0.49
1:A:511:TYR:HD2	1:A:520:VAL:HG22	1.77	0.49
1:D:490:ARG:NH1	1:P:585:LEU:HD23	2.27	0.49
1:F:510:LYS:HA	1:F:520:VAL:HG23	1.93	0.49
1:I:511:TYR:HD2	1:I:520:VAL:HG22	1.77	0.49
1:J:709:GLN:NE2	1:J:711:GLY:O	2.44	0.49
1:L:511:TYR:HD2	1:L:520:VAL:HG22	1.78	0.49
1:R:502:ASN:HA	1:U:450:THR:OG1	2.12	0.49
1:U:560:LEU:HB3	1:U:727:PRO:HD3	1.93	0.49
1:W:434:ARG:NH2	1:Y:271:ASP:O	2.44	0.49
1:f:511:TYR:HD2	1:f:520:VAL:HG22	1.77	0.49
1:m:622:LYS:HB2	1:m:644:PRO:HG3	1.94	0.49
1:n:405:LEU:HD21	1:n:411:PHE:HB2	1.94	0.49
1:o:436:MET:HE1	1:o:473:MET:HB3	1.94	0.49
1:q:436:MET:HE1	1:q:473:MET:HB3	1.94	0.49
1:q:502:ASN:HA	1:s:450:THR:OG1	2.12	0.49
1:v:445:TYR:CE1	1:v:467:GLN:HG3	2.47	0.49
1:y:445:TYR:CE1	1:y:467:GLN:HG3	2.47	0.49
1:z:511:TYR:HD2	1:z:520:VAL:HG22	1.78	0.49
1:2:564:GLU:OE2	1:2:614:TYR:OH	2.15	0.49
1:8:260:GLN:OE1	1:8:275:PHE:HE1	1.94	0.49
1:B:564:GLU:OE2	1:B:614:TYR:OH	2.15	0.49
1:C:510:LYS:HA	1:C:520:VAL:HG23	1.93	0.49
1:E:502:ASN:HA	1:F:450:THR:OG1	2.12	0.49
1:F:502:ASN:HA	1:Q:450:THR:OG1	2.12	0.49
1:F:622:LYS:HB2	1:F:644:PRO:HG3	1.94	0.49
1:H:622:LYS:HB2	1:H:644:PRO:HG3	1.94	0.49
1:O:511:TYR:HD2	1:O:520:VAL:HG22	1.78	0.49
1:R:436:MET:HE1	1:R:473:MET:HB3	1.94	0.49
1:S:510:LYS:HA	1:S:520:VAL:HG23	1.93	0.49
1:Z:530:LYS:HG2	1:Z:531:ASP:N	2.23	0.49
1:d:405:LEU:HD21	1:d:411:PHE:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:622:LYS:HB2	1:i:644:PRO:HG3	1.94	0.49
1:k:622:LYS:HB2	1:k:644:PRO:HG3	1.94	0.49
1:p:232:ASP:OD1	1:p:233:SER:N	2.44	0.49
1:s:560:LEU:HB3	1:s:727:PRO:HD3	1.93	0.49
1:s:622:LYS:HB2	1:s:644:PRO:HG3	1.94	0.49
1:t:502:ASN:HA	1:v:450:THR:OG1	2.12	0.49
1:u:445:TYR:CE1	1:u:467:GLN:HG3	2.47	0.49
1:u:466:TYR:CD1	1:v:553:LYS:HG2	2.48	0.49
1:u:511:TYR:HD2	1:u:520:VAL:HG22	1.77	0.49
1:v:511:TYR:HD2	1:v:520:VAL:HG22	1.77	0.49
1:v:622:LYS:HB2	1:v:644:PRO:HG3	1.94	0.49
1:w:510:LYS:HA	1:w:520:VAL:HG23	1.93	0.49
1:y:622:LYS:HB2	1:y:644:PRO:HG3	1.94	0.49
1:2:709:GLN:NE2	1:2:711:GLY:O	2.44	0.49
1:4:510:LYS:HA	1:4:520:VAL:HG23	1.93	0.49
1:5:622:LYS:HB2	1:5:644:PRO:HG3	1.94	0.49
1:6:232:ASP:OD1	1:6:233:SER:N	2.44	0.49
1:7:232:ASP:OD1	1:7:233:SER:N	2.44	0.49
1:A:445:TYR:CE1	1:A:467:GLN:HG3	2.47	0.49
1:A:502:ASN:HA	1:I:450:THR:OG1	2.12	0.49
1:A:622:LYS:HB2	1:A:644:PRO:HG3	1.94	0.49
1:F:436:MET:HE1	1:F:473:MET:HB3	1.94	0.49
1:F:511:TYR:HD2	1:F:520:VAL:HG22	1.77	0.49
1:G:436:MET:HE1	1:G:473:MET:HB3	1.94	0.49
1:I:445:TYR:CE1	1:I:467:GLN:HG3	2.47	0.49
1:K:510:LYS:HA	1:K:520:VAL:HG23	1.93	0.49
1:K:622:LYS:HB2	1:K:644:PRO:HG3	1.94	0.49
1:M:384:ASN:ND2	1:b:532:ASP:OD1	2.43	0.49
1:M:622:LYS:HB2	1:M:644:PRO:HG3	1.94	0.49
1:N:622:LYS:HB2	1:N:644:PRO:HG3	1.94	0.49
1:O:553:LYS:HG2	1:n:466:TYR:CD1	2.48	0.49
1:Q:511:TYR:HD2	1:Q:520:VAL:HG22	1.77	0.49
1:R:445:TYR:CE1	1:R:467:GLN:HG3	2.47	0.49
1:R:450:THR:OG1	1:S:502:ASN:HA	2.12	0.49
1:U:622:LYS:HB2	1:U:644:PRO:HG3	1.94	0.49
1:V:232:ASP:OD1	1:V:233:SER:N	2.44	0.49
1:X:436:MET:HE1	1:X:473:MET:HB3	1.94	0.49
1:b:603:LEU:HB2	1:b:606:MET:HE3	1.95	0.49
1:f:260:GLN:OE1	1:f:275:PHE:HE1	1.94	0.49
1:f:510:LYS:HA	1:f:520:VAL:HG23	1.93	0.49
1:f:603:LEU:HB2	1:f:606:MET:HE3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:510:LYS:HA	1:g:520:VAL:HG23	1.93	0.49
1:h:622:LYS:HB2	1:h:644:PRO:HG3	1.94	0.49
1:i:466:TYR:CD1	1:j:553:LYS:HG2	2.47	0.49
1:j:434:ARG:NH2	1:k:271:ASP:O	2.44	0.49
1:n:445:TYR:CE1	1:n:467:GLN:HG3	2.47	0.49
1:o:405:LEU:HD21	1:o:411:PHE:HB2	1.94	0.49
1:p:530:LYS:HG2	1:p:531:ASP:N	2.23	0.49
1:q:511:TYR:HD2	1:q:520:VAL:HG22	1.78	0.49
1:r:510:LYS:HA	1:r:520:VAL:HG23	1.93	0.49
1:r:560:LEU:HB3	1:r:727:PRO:HD3	1.94	0.49
1:t:603:LEU:HB2	1:t:606:MET:HE3	1.95	0.49
1:y:511:TYR:HD2	1:y:520:VAL:HG22	1.77	0.49
1:4:622:LYS:HB2	1:4:644:PRO:HG3	1.94	0.49
1:7:603:LEU:HB2	1:7:606:MET:HE3	1.95	0.49
1:B:560:LEU:HB3	1:B:727:PRO:HD3	1.93	0.49
1:C:271:ASP:O	1:M:434:ARG:NH2	2.43	0.49
1:C:445:TYR:CE1	1:C:467:GLN:HG3	2.47	0.49
1:E:510:LYS:HA	1:E:520:VAL:HG23	1.93	0.49
1:G:622:LYS:HB2	1:G:644:PRO:HG3	1.94	0.49
1:K:445:TYR:CE1	1:K:467:GLN:HG3	2.47	0.49
1:K:466:TYR:CD1	1:a:553:LYS:HG2	2.48	0.49
1:Q:232:ASP:OD1	1:Q:233:SER:N	2.44	0.49
1:Q:436:MET:HE1	1:Q:473:MET:HB3	1.94	0.49
1:R:511:TYR:HD2	1:R:520:VAL:HG22	1.78	0.49
1:T:434:ARG:NH2	1:d:271:ASP:O	2.44	0.49
1:U:436:MET:HE1	1:U:473:MET:HB3	1.93	0.49
1:W:232:ASP:OD1	1:W:233:SER:N	2.44	0.49
1:X:405:LEU:HD21	1:X:411:PHE:HB2	1.94	0.49
1:Y:418:GLU:OE2	1:Y:642:LYS:N	2.42	0.49
1:Y:436:MET:HE1	1:Y:473:MET:HB3	1.93	0.49
1:Y:603:LEU:HB2	1:Y:606:MET:HE3	1.95	0.49
1:Z:405:LEU:HD21	1:Z:411:PHE:HB2	1.94	0.49
1:a:511:TYR:HD2	1:a:520:VAL:HG22	1.77	0.49
1:b:510:LYS:HA	1:b:520:VAL:HG23	1.93	0.49
1:c:405:LEU:HD21	1:c:411:PHE:HB2	1.94	0.49
1:d:445:TYR:CE1	1:d:467:GLN:HG3	2.47	0.49
1:e:405:LEU:HD21	1:e:411:PHE:HB2	1.94	0.49
1:e:445:TYR:CE1	1:e:467:GLN:HG3	2.47	0.49
1:g:271:ASP:O	1:h:434:ARG:NH2	2.44	0.49
1:l:603:LEU:HB2	1:l:606:MET:HE3	1.95	0.49
1:o:560:LEU:HB3	1:o:727:PRO:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:232:ASP:OD1	1:q:233:SER:N	2.44	0.49
1:q:450:THR:OG1	1:r:502:ASN:HA	2.12	0.49
1:t:436:MET:HE1	1:t:473:MET:HB3	1.94	0.49
1:t:622:LYS:HB2	1:t:644:PRO:HG3	1.94	0.49
1:u:450:THR:OG1	1:v:502:ASN:HA	2.12	0.49
1:w:502:ASN:HA	1:y:450:THR:OG1	2.12	0.49
1:x:511:TYR:HD2	1:x:520:VAL:HG22	1.77	0.49
1:1:560:LEU:HB3	1:1:727:PRO:HD3	1.93	0.49
1:3:553:LYS:HG2	1:4:466:TYR:CD1	2.48	0.49
1:5:553:LYS:HG2	1:7:466:TYR:CD1	2.48	0.49
1:7:418:GLU:OE2	1:7:642:LYS:N	2.42	0.49
1:B:345:PHE:CE1	1:B:400:PHE:HD2	2.31	0.49
1:C:345:PHE:CE1	1:C:400:PHE:HD2	2.31	0.49
1:D:622:LYS:HB2	1:D:644:PRO:HG3	1.94	0.49
1:G:560:LEU:HB3	1:G:727:PRO:HD3	1.94	0.49
1:G:603:LEU:HB2	1:G:606:MET:HE3	1.95	0.49
1:H:553:LYS:HG2	1:Y:466:TYR:CD1	2.48	0.49
1:J:445:TYR:CE1	1:J:467:GLN:HG3	2.47	0.49
1:J:466:TYR:CD1	1:L:553:LYS:HG2	2.48	0.49
1:L:436:MET:HE1	1:L:473:MET:HB3	1.93	0.49
1:M:603:LEU:HB2	1:M:606:MET:HE3	1.95	0.49
1:O:603:LEU:HB2	1:O:606:MET:HE3	1.95	0.49
1:R:232:ASP:OD1	1:R:233:SER:N	2.44	0.49
1:S:560:LEU:HB3	1:S:727:PRO:HD3	1.94	0.49
1:c:445:TYR:CE1	1:c:467:GLN:HG3	2.47	0.49
1:d:466:TYR:CD1	1:l:553:LYS:HG2	2.48	0.49
1:f:532:ASP:OD1	1:h:384:ASN:ND2	2.43	0.49
1:g:445:TYR:CE1	1:g:467:GLN:HG3	2.47	0.49
1:h:321:GLN:NE2	1:i:340:SER:HA	2.27	0.49
1:h:603:LEU:HB2	1:h:606:MET:HE3	1.95	0.49
1:i:502:ASN:HA	1:k:450:THR:OG1	2.12	0.49
1:k:564:GLU:OE2	1:k:614:TYR:OH	2.15	0.49
1:m:434:ARG:NH2	1:n:271:ASP:O	2.44	0.49
1:m:445:TYR:CE1	1:m:467:GLN:HG3	2.47	0.49
1:m:603:LEU:HB2	1:m:606:MET:HE3	1.95	0.49
1:o:445:TYR:CE1	1:o:467:GLN:HG3	2.47	0.49
1:p:418:GLU:OE2	1:p:642:LYS:N	2.42	0.49
1:p:445:TYR:CE1	1:p:467:GLN:HG3	2.47	0.49
1:x:232:ASP:OD1	1:x:233:SER:N	2.44	0.49
1:x:436:MET:HE1	1:x:473:MET:HB3	1.94	0.49
1:y:436:MET:HE1	1:y:473:MET:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:405:LEU:HD21	1:z:411:PHE:HB2	1.94	0.49
1:z:553:LYS:HG2	1:2:466:TYR:CD1	2.48	0.49
1:1:345:PHE:CE1	1:1:400:PHE:HD2	2.31	0.49
1:2:603:LEU:HB2	1:2:606:MET:HE3	1.95	0.49
1:3:502:ASN:HA	1:4:450:THR:OG1	2.12	0.49
1:3:511:TYR:HD2	1:3:520:VAL:HG22	1.77	0.49
1:6:405:LEU:HD21	1:6:411:PHE:HB2	1.94	0.49
1:7:436:MET:HE1	1:7:473:MET:HB3	1.93	0.49
1:8:405:LEU:HD21	1:8:411:PHE:HB2	1.94	0.49
1:A:466:TYR:CD1	1:G:553:LYS:HG2	2.48	0.49
1:A:553:LYS:HG2	1:I:466:TYR:CD1	2.48	0.49
1:C:511:TYR:HD2	1:C:520:VAL:HG22	1.78	0.49
1:C:622:LYS:HB2	1:C:644:PRO:HG3	1.94	0.49
1:F:232:ASP:OD1	1:F:233:SER:N	2.44	0.49
1:H:345:PHE:CE1	1:H:400:PHE:HD2	2.31	0.49
1:H:436:MET:HE1	1:H:473:MET:HB3	1.94	0.49
1:J:603:LEU:HB2	1:J:606:MET:HE3	1.95	0.49
1:K:511:TYR:HD2	1:K:520:VAL:HG22	1.78	0.49
1:P:445:TYR:CE1	1:P:467:GLN:HG3	2.47	0.49
1:S:603:LEU:HB2	1:S:606:MET:HE3	1.95	0.49
1:T:445:TYR:CE1	1:T:467:GLN:HG3	2.47	0.49
1:T:603:LEU:HB2	1:T:606:MET:HE3	1.95	0.49
1:V:436:MET:HE1	1:V:473:MET:HB3	1.94	0.49
1:V:445:TYR:CE1	1:V:467:GLN:HG3	2.47	0.49
1:W:405:LEU:HD21	1:W:411:PHE:HB2	1.94	0.49
1:W:436:MET:HE1	1:W:473:MET:HB3	1.93	0.49
1:X:445:TYR:CE1	1:X:467:GLN:HG3	2.47	0.49
1:X:560:LEU:HB3	1:X:727:PRO:HD3	1.94	0.49
1:c:603:LEU:HB2	1:c:606:MET:HE3	1.95	0.49
1:d:232:ASP:OD1	1:d:233:SER:N	2.44	0.49
1:d:260:GLN:OE1	1:d:275:PHE:HE1	1.94	0.49
1:e:603:LEU:HB2	1:e:606:MET:HE3	1.95	0.49
1:g:345:PHE:CE1	1:g:400:PHE:HD2	2.31	0.49
1:g:622:LYS:HB2	1:g:644:PRO:HG3	1.94	0.49
1:k:445:TYR:CE1	1:k:467:GLN:HG3	2.47	0.49
1:p:436:MET:HE1	1:p:473:MET:HB3	1.94	0.49
1:q:445:TYR:CE1	1:q:467:GLN:HG3	2.47	0.49
1:r:232:ASP:OD1	1:r:233:SER:N	2.44	0.49
1:r:603:LEU:HB2	1:r:606:MET:HE3	1.95	0.49
1:s:436:MET:HE1	1:s:473:MET:HB3	1.93	0.49
1:y:232:ASP:OD1	1:y:233:SER:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:436:MET:HE1	1:z:473:MET:HB3	1.93	0.49
1:2:445:TYR:CE1	1:2:467:GLN:HG3	2.47	0.49
1:4:445:TYR:CE1	1:4:467:GLN:HG3	2.47	0.49
1:4:511:TYR:HD2	1:4:520:VAL:HG22	1.78	0.49
1:5:345:PHE:CE1	1:5:400:PHE:HD2	2.31	0.49
1:5:436:MET:HE1	1:5:473:MET:HB3	1.94	0.49
1:6:436:MET:HE1	1:6:473:MET:HB3	1.93	0.49
1:B:436:MET:HE1	1:B:473:MET:HB3	1.94	0.49
1:D:445:TYR:CE1	1:D:467:GLN:HG3	2.47	0.49
1:J:436:MET:HE1	1:J:473:MET:HB3	1.94	0.49
1:J:564:GLU:OE2	1:J:614:TYR:OH	2.15	0.49
1:K:450:THR:OG1	1:a:502:ASN:HA	2.12	0.49
1:L:405:LEU:HD21	1:L:411:PHE:HB2	1.94	0.49
1:M:436:MET:HE1	1:M:473:MET:HB3	1.94	0.49
1:P:511:TYR:HD2	1:P:520:VAL:HG22	1.78	0.49
1:V:340:SER:HA	1:W:321:GLN:NE2	2.28	0.49
1:d:511:TYR:HD2	1:d:520:VAL:HG22	1.77	0.49
1:d:622:LYS:HB2	1:d:644:PRO:HG3	1.94	0.49
1:g:511:TYR:HD2	1:g:520:VAL:HG22	1.77	0.49
1:h:436:MET:HE1	1:h:473:MET:HB3	1.94	0.49
1:j:445:TYR:CE1	1:j:467:GLN:HG3	2.47	0.49
1:n:260:GLN:OE1	1:n:275:PHE:HE1	1.94	0.49
1:n:511:TYR:HD2	1:n:520:VAL:HG22	1.77	0.49
1:n:530:LYS:HG2	1:n:531:ASP:N	2.23	0.49
1:o:345:PHE:CE1	1:o:400:PHE:HD2	2.31	0.49
1:p:622:LYS:HB2	1:p:644:PRO:HG3	1.94	0.49
1:t:418:GLU:OE2	1:t:642:LYS:N	2.42	0.49
1:t:560:LEU:HB3	1:t:727:PRO:HD3	1.94	0.49
1:x:603:LEU:HB2	1:x:606:MET:HE3	1.95	0.49
1:1:436:MET:HE1	1:1:473:MET:HB3	1.94	0.49
1:A:340:SER:HA	1:B:321:GLN:NE2	2.28	0.49
1:A:436:MET:HE1	1:A:473:MET:HB3	1.94	0.49
1:B:603:LEU:HB2	1:B:606:MET:HE3	1.95	0.49
1:D:405:LEU:HD21	1:D:411:PHE:HB2	1.94	0.49
1:D:511:TYR:HD2	1:D:520:VAL:HG22	1.77	0.49
1:D:603:LEU:HB2	1:D:606:MET:HE3	1.95	0.49
1:E:622:LYS:HB2	1:E:644:PRO:HG3	1.94	0.49
1:F:603:LEU:HB2	1:F:606:MET:HE3	1.95	0.49
1:H:450:THR:OG1	1:W:502:ASN:HA	2.12	0.49
1:H:603:LEU:HB2	1:H:606:MET:HE3	1.95	0.49
1:L:622:LYS:HB2	1:L:644:PRO:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:560:LEU:HB3	1:N:727:PRO:HD3	1.94	0.49
1:O:466:TYR:CD1	1:m:553:LYS:HG2	2.48	0.49
1:Q:345:PHE:CE1	1:Q:400:PHE:HD2	2.31	0.49
1:S:232:ASP:OD1	1:S:233:SER:N	2.44	0.49
1:V:418:GLU:OE2	1:V:642:LYS:N	2.42	0.49
1:V:466:TYR:CD1	1:e:553:LYS:HG2	2.48	0.49
1:V:622:LYS:HB2	1:V:644:PRO:HG3	1.94	0.49
1:W:622:LYS:HB2	1:W:644:PRO:HG3	1.94	0.49
1:X:345:PHE:CE1	1:X:400:PHE:HD2	2.31	0.49
1:X:553:LYS:HG2	1:e:466:TYR:CD1	2.48	0.49
1:Z:622:LYS:HB2	1:Z:644:PRO:HG3	1.94	0.49
1:c:466:TYR:CD1	1:o:553:LYS:HG2	2.48	0.49
1:c:553:LYS:HG2	1:p:466:TYR:CD1	2.48	0.49
1:c:622:LYS:HB2	1:c:644:PRO:HG3	1.94	0.49
1:e:622:LYS:HB2	1:e:644:PRO:HG3	1.94	0.49
1:h:511:TYR:HD2	1:h:520:VAL:HG22	1.77	0.49
1:k:603:LEU:HB2	1:k:606:MET:HE3	1.95	0.49
1:l:436:MET:HE1	1:l:473:MET:HB3	1.94	0.49
1:m:436:MET:HE1	1:m:473:MET:HB3	1.94	0.49
1:n:232:ASP:OD1	1:n:233:SER:N	2.44	0.49
1:n:622:LYS:HB2	1:n:644:PRO:HG3	1.94	0.49
1:p:345:PHE:CE1	1:p:400:PHE:HD2	2.31	0.49
1:v:436:MET:HE1	1:v:473:MET:HB3	1.94	0.49
1:w:622:LYS:HB2	1:w:644:PRO:HG3	1.94	0.49
1:y:603:LEU:HB2	1:y:606:MET:HE3	1.95	0.49
1:z:622:LYS:HB2	1:z:644:PRO:HG3	1.94	0.49
1:1:622:LYS:HB2	1:1:644:PRO:HG3	1.94	0.49
1:2:436:MET:HE1	1:2:473:MET:HB3	1.94	0.49
1:5:603:LEU:HB2	1:5:606:MET:HE3	1.95	0.49
1:6:622:LYS:HB2	1:6:644:PRO:HG3	1.94	0.49
1:B:622:LYS:HB2	1:B:644:PRO:HG3	1.94	0.48
1:C:405:LEU:HD21	1:C:411:PHE:HB2	1.94	0.48
1:C:466:TYR:CD1	1:b:553:LYS:HG2	2.48	0.48
1:E:553:LYS:HG2	1:F:466:TYR:CD1	2.48	0.48
1:G:321:GLN:NE2	1:W:340:SER:HA	2.28	0.48
1:G:345:PHE:CE1	1:G:400:PHE:HD2	2.31	0.48
1:H:342:ILE:HD12	1:H:650:ILE:HD11	1.95	0.48
1:M:511:TYR:HD2	1:M:520:VAL:HG22	1.77	0.48
1:N:321:GLN:NE2	1:m:340:SER:HA	2.28	0.48
1:N:511:TYR:HD2	1:N:520:VAL:HG22	1.78	0.48
1:O:436:MET:HE1	1:O:473:MET:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:603:LEU:HB2	1:Q:606:MET:HE3	1.95	0.48
1:S:345:PHE:CE1	1:S:400:PHE:HD2	2.31	0.48
1:S:511:TYR:HD2	1:S:520:VAL:HG22	1.78	0.48
1:T:436:MET:HE1	1:T:473:MET:HB3	1.94	0.48
1:T:553:LYS:HG2	1:l:466:TYR:CD1	2.48	0.48
1:V:345:PHE:CE1	1:V:400:PHE:HD2	2.31	0.48
1:W:345:PHE:CE1	1:W:400:PHE:HD2	2.31	0.48
1:a:345:PHE:CE1	1:a:400:PHE:HD2	2.31	0.48
1:b:405:LEU:HD21	1:b:411:PHE:HB2	1.94	0.48
1:c:260:GLN:OE1	1:c:275:PHE:HE1	1.94	0.48
1:f:553:LYS:HG2	1:g:466:TYR:CD1	2.48	0.48
1:h:564:GLU:OE2	1:h:614:TYR:OH	2.15	0.48
1:i:511:TYR:HD2	1:i:520:VAL:HG22	1.77	0.48
1:i:560:LEU:HB3	1:i:727:PRO:HD3	1.94	0.48
1:i:603:LEU:HB2	1:i:606:MET:HE3	1.95	0.48
1:j:340:SER:HA	1:l:321:GLN:NE2	2.28	0.48
1:j:511:TYR:HD2	1:j:520:VAL:HG22	1.78	0.48
1:k:511:TYR:HD2	1:k:520:VAL:HG22	1.78	0.48
1:p:340:SER:HA	1:6:321:GLN:NE2	2.28	0.48
1:t:321:GLN:NE2	1:6:340:SER:HA	2.28	0.48
1:t:345:PHE:CE1	1:t:400:PHE:HD2	2.31	0.48
1:t:466:TYR:CD1	1:u:553:LYS:HG2	2.48	0.48
1:w:436:MET:HE1	1:w:473:MET:HB3	1.93	0.48
1:w:450:THR:OG1	1:x:502:ASN:HA	2.12	0.48
1:x:345:PHE:CE1	1:x:400:PHE:HD2	2.31	0.48
1:x:532:ASP:OD1	1:y:384:ASN:ND2	2.43	0.48
1:1:603:LEU:HB2	1:1:606:MET:HE3	1.95	0.48
1:2:511:TYR:HD2	1:2:520:VAL:HG22	1.78	0.48
1:3:345:PHE:CE1	1:3:400:PHE:HD2	2.31	0.48
1:3:603:LEU:HB2	1:3:606:MET:HE3	1.95	0.48
1:5:342:ILE:HD12	1:5:650:ILE:HD11	1.95	0.48
1:6:345:PHE:CE1	1:6:400:PHE:HD2	2.31	0.48
1:6:603:LEU:HB2	1:6:606:MET:HE3	1.95	0.48
1:8:622:LYS:HB2	1:8:644:PRO:HG3	1.94	0.48
1:A:560:LEU:HB3	1:A:727:PRO:HD3	1.94	0.48
1:E:405:LEU:HD21	1:E:411:PHE:HB2	1.94	0.48
1:E:450:THR:OG1	1:Q:502:ASN:HA	2.12	0.48
1:E:511:TYR:HD2	1:E:520:VAL:HG22	1.77	0.48
1:F:384:ASN:ND2	1:Q:532:ASP:OD1	2.42	0.48
1:G:466:TYR:CD1	1:I:553:LYS:HG2	2.48	0.48
1:I:321:GLN:NE2	1:J:340:SER:HA	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:345:PHE:CE1	1:I:400:PHE:HD2	2.31	0.48
1:J:226:SER:HG	1:J:319:ASN:H	1.55	0.48
1:J:511:TYR:HD2	1:J:520:VAL:HG22	1.78	0.48
1:M:321:GLN:NE2	1:N:340:SER:HA	2.28	0.48
1:N:603:LEU:HB2	1:N:606:MET:HE3	1.95	0.48
1:O:345:PHE:CE1	1:O:400:PHE:HD2	2.31	0.48
1:O:445:TYR:CE1	1:O:467:GLN:HG3	2.47	0.48
1:Q:530:LYS:HG2	1:Q:531:ASP:N	2.23	0.48
1:R:622:LYS:HB2	1:R:644:PRO:HG3	1.94	0.48
1:W:603:LEU:HB2	1:W:606:MET:HE3	1.95	0.48
1:X:340:SER:HA	1:f:321:GLN:NE2	2.29	0.48
1:Y:321:GLN:NE2	1:4:340:SER:HA	2.28	0.48
1:a:603:LEU:HB2	1:a:606:MET:HE3	1.95	0.48
1:b:321:GLN:NE2	1:o:340:SER:HA	2.29	0.48
1:f:405:LEU:HD21	1:f:411:PHE:HB2	1.94	0.48
1:g:405:LEU:HD21	1:g:411:PHE:HB2	1.94	0.48
1:k:405:LEU:HD21	1:k:411:PHE:HB2	1.94	0.48
1:r:345:PHE:CE1	1:r:400:PHE:HD2	2.31	0.48
1:r:511:TYR:HD2	1:r:520:VAL:HG22	1.78	0.48
1:s:405:LEU:HD21	1:s:411:PHE:HB2	1.94	0.48
1:u:321:GLN:NE2	1:2:340:SER:HA	2.29	0.48
1:w:553:LYS:HG2	1:y:466:TYR:CD1	2.48	0.48
1:y:342:ILE:HD12	1:y:650:ILE:HD11	1.95	0.48
1:2:622:LYS:HB2	1:2:644:PRO:HG3	1.94	0.48
1:4:345:PHE:CE1	1:4:400:PHE:HD2	2.31	0.48
1:5:450:THR:OG1	1:6:502:ASN:HA	2.12	0.48
1:7:345:PHE:CE1	1:7:400:PHE:HD2	2.31	0.48
1:F:342:ILE:HD12	1:F:650:ILE:HD11	1.96	0.48
1:F:345:PHE:CE1	1:F:400:PHE:HD2	2.31	0.48
1:J:345:PHE:CE1	1:J:400:PHE:HD2	2.31	0.48
1:K:340:SER:HA	1:7:321:GLN:NE2	2.28	0.48
1:K:345:PHE:CE1	1:K:400:PHE:HD2	2.31	0.48
1:L:345:PHE:CE1	1:L:400:PHE:HD2	2.31	0.48
1:L:530:LYS:HG2	1:L:531:ASP:N	2.23	0.48
1:P:622:LYS:HB2	1:P:644:PRO:HG3	1.94	0.48
1:S:622:LYS:HB2	1:S:644:PRO:HG3	1.94	0.48
1:U:405:LEU:HD21	1:U:411:PHE:HB2	1.94	0.48
1:V:511:TYR:HD2	1:V:520:VAL:HG22	1.78	0.48
1:V:603:LEU:HB2	1:V:606:MET:HE3	1.95	0.48
1:W:342:ILE:HD12	1:W:650:ILE:HD11	1.95	0.48
1:W:466:TYR:CD1	1:Y:553:LYS:HG2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:345:PHE:CE1	1:Y:400:PHE:HD2	2.31	0.48
1:a:342:ILE:HD12	1:a:650:ILE:HD11	1.96	0.48
1:d:530:LYS:HG2	1:d:531:ASP:N	2.23	0.48
1:g:485:CYS:HG	1:g:578:TYR:HB2	1.78	0.48
1:j:466:TYR:CD1	1:k:553:LYS:HG2	2.48	0.48
1:j:622:LYS:HB2	1:j:644:PRO:HG3	1.94	0.48
1:p:485:CYS:HG	1:p:578:TYR:HB2	1.77	0.48
1:p:511:TYR:HD2	1:p:520:VAL:HG22	1.78	0.48
1:p:603:LEU:HB2	1:p:606:MET:HE3	1.95	0.48
1:q:603:LEU:HB2	1:q:606:MET:HE3	1.95	0.48
1:q:622:LYS:HB2	1:q:644:PRO:HG3	1.94	0.48
1:w:405:LEU:HD21	1:w:411:PHE:HB2	1.94	0.48
1:y:345:PHE:CE1	1:y:400:PHE:HD2	2.31	0.48
1:z:445:TYR:CE1	1:z:467:GLN:HG3	2.47	0.48
1:2:226:SER:HG	1:2:319:ASN:H	1.55	0.48
1:3:342:ILE:HD12	1:3:650:ILE:HD11	1.96	0.48
1:5:260:GLN:OE1	1:5:275:PHE:HE1	1.94	0.48
1:6:342:ILE:HD12	1:6:650:ILE:HD11	1.95	0.48
1:6:466:TYR:CD1	1:7:553:LYS:HG2	2.48	0.48
1:B:466:TYR:CD1	1:J:553:LYS:HG2	2.48	0.48
1:C:340:SER:HA	1:D:321:GLN:NE2	2.28	0.48
1:C:485:CYS:HG	1:C:578:TYR:HB2	1.78	0.48
1:D:340:SER:HA	1:E:321:GLN:NE2	2.28	0.48
1:E:436:MET:HE1	1:E:473:MET:HB3	1.94	0.48
1:F:321:GLN:NE2	1:G:340:SER:HA	2.29	0.48
1:H:340:SER:HA	1:Z:321:GLN:NE2	2.28	0.48
1:J:342:ILE:HD12	1:J:650:ILE:HD11	1.96	0.48
1:J:622:LYS:HB2	1:J:644:PRO:HG3	1.94	0.48
1:K:321:GLN:NE2	1:L:340:SER:HA	2.28	0.48
1:L:321:GLN:NE2	1:b:340:SER:HA	2.29	0.48
1:L:564:GLU:OE2	1:L:614:TYR:OH	2.15	0.48
1:M:345:PHE:CE1	1:M:400:PHE:HD2	2.31	0.48
1:N:450:THR:OG1	1:P:502:ASN:HA	2.13	0.48
1:P:603:LEU:HB2	1:P:606:MET:HE3	1.95	0.48
1:R:553:LYS:HG2	1:U:466:TYR:CD1	2.48	0.48
1:S:321:GLN:NE2	1:d:340:SER:HA	2.29	0.48
1:S:342:ILE:HD12	1:S:650:ILE:HD11	1.96	0.48
1:V:553:LYS:HG2	1:X:466:TYR:CD1	2.48	0.48
1:X:321:GLN:NE2	1:Y:340:SER:HA	2.28	0.48
1:X:603:LEU:HB2	1:X:606:MET:HE3	1.95	0.48
1:b:260:GLN:OE1	1:b:275:PHE:HE1	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:260:GLN:OE1	1:e:275:PHE:HE1	1.94	0.48
1:f:342:ILE:HD12	1:f:650:ILE:HD11	1.96	0.48
1:f:466:TYR:CD1	1:h:553:LYS:HG2	2.48	0.48
1:h:345:PHE:CE1	1:h:400:PHE:HD2	2.31	0.48
1:h:560:LEU:HB3	1:h:727:PRO:HD3	1.94	0.48
1:j:321:GLN:NE2	1:x:340:SER:HA	2.28	0.48
1:j:603:LEU:HB2	1:j:606:MET:HE3	1.95	0.48
1:l:340:SER:HA	1:n:321:GLN:NE2	2.29	0.48
1:l:345:PHE:CE1	1:l:400:PHE:HD2	2.31	0.48
1:n:340:SER:HA	1:r:321:GLN:NE2	2.29	0.48
1:n:345:PHE:CE1	1:n:400:PHE:HD2	2.31	0.48
1:o:603:LEU:HB2	1:o:606:MET:HE3	1.95	0.48
1:r:342:ILE:HD12	1:r:650:ILE:HD11	1.96	0.48
1:t:340:SER:HA	1:y:321:GLN:NE2	2.29	0.48
1:t:553:LYS:HG2	1:v:466:TYR:CD1	2.48	0.48
1:u:345:PHE:CE1	1:u:400:PHE:HD2	2.31	0.48
1:u:603:LEU:HB2	1:u:606:MET:HE3	1.95	0.48
1:v:560:LEU:HB3	1:v:727:PRO:HD3	1.94	0.48
1:w:511:TYR:HD2	1:w:520:VAL:HG22	1.77	0.48
1:y:405:LEU:HD21	1:y:411:PHE:HB2	1.94	0.48
1:z:345:PHE:CE1	1:z:400:PHE:HD2	2.31	0.48
1:2:345:PHE:CE1	1:2:400:PHE:HD2	2.31	0.48
1:B:511:TYR:HD2	1:B:520:VAL:HG22	1.78	0.48
1:F:405:LEU:HD21	1:F:411:PHE:HB2	1.94	0.48
1:H:321:GLN:NE2	1:I:340:SER:HA	2.28	0.48
1:I:603:LEU:HB2	1:I:606:MET:HE3	1.95	0.48
1:L:445:TYR:CE1	1:L:467:GLN:HG3	2.47	0.48
1:M:553:LYS:HG2	1:b:466:TYR:CD1	2.48	0.48
1:O:342:ILE:HD12	1:O:650:ILE:HD11	1.96	0.48
1:R:603:LEU:HB2	1:R:606:MET:HE3	1.95	0.48
1:Y:342:ILE:HD12	1:Y:650:ILE:HD11	1.95	0.48
1:Y:622:LYS:HB2	1:Y:644:PRO:HG3	1.94	0.48
1:Z:342:ILE:HD12	1:Z:650:ILE:HD11	1.96	0.48
1:a:560:LEU:HB3	1:a:727:PRO:HD3	1.94	0.48
1:b:342:ILE:HD12	1:b:650:ILE:HD11	1.96	0.48
1:d:342:ILE:HD12	1:d:650:ILE:HD11	1.96	0.48
1:d:345:PHE:CE1	1:d:400:PHE:HD2	2.31	0.48
1:f:340:SER:HA	1:z:321:GLN:NE2	2.29	0.48
1:f:345:PHE:CE1	1:f:400:PHE:HD2	2.31	0.48
1:g:342:ILE:HD12	1:g:650:ILE:HD11	1.96	0.48
1:l:445:TYR:CE1	1:l:467:GLN:HG3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:321:GLN:NE2	1:7:340:SER:HA	2.28	0.48
1:o:466:TYR:CD1	1:p:553:LYS:HG2	2.48	0.48
1:q:466:TYR:CD1	1:r:553:LYS:HG2	2.48	0.48
1:q:553:LYS:HG2	1:s:466:TYR:CD1	2.48	0.48
1:r:622:LYS:HB2	1:r:644:PRO:HG3	1.94	0.48
1:z:340:SER:HA	1:4:321:GLN:NE2	2.28	0.48
1:2:342:ILE:HD12	1:2:650:ILE:HD11	1.96	0.48
1:5:340:SER:HA	1:8:321:GLN:NE2	2.28	0.48
1:7:342:ILE:HD12	1:7:650:ILE:HD11	1.95	0.48
1:7:622:LYS:HB2	1:7:644:PRO:HG3	1.94	0.48
1:A:345:PHE:CE1	1:A:400:PHE:HD2	2.31	0.48
1:B:553:LYS:HG2	1:L:466:TYR:CD1	2.48	0.48
1:C:342:ILE:HD12	1:C:650:ILE:HD11	1.96	0.48
1:H:260:GLN:OE1	1:H:275:PHE:HE1	1.94	0.48
1:L:485:CYS:HG	1:L:578:TYR:HB2	1.79	0.48
1:O:340:SER:HA	1:d:321:GLN:NE2	2.29	0.48
1:Q:342:ILE:HD12	1:Q:650:ILE:HD11	1.96	0.48
1:R:342:ILE:HD12	1:R:650:ILE:HD11	1.96	0.48
1:R:466:TYR:CD1	1:S:553:LYS:HG2	2.48	0.48
1:T:340:SER:HA	1:i:321:GLN:NE2	2.29	0.48
1:X:511:TYR:HD2	1:X:520:VAL:HG22	1.77	0.48
1:a:466:TYR:CD1	1:8:553:LYS:HG2	2.48	0.48
1:b:345:PHE:CE1	1:b:400:PHE:HD2	2.31	0.48
1:g:340:SER:HA	1:k:321:GLN:NE2	2.28	0.48
1:k:560:LEU:HB3	1:k:727:PRO:HD3	1.94	0.48
1:l:342:ILE:HD12	1:l:650:ILE:HD11	1.96	0.48
1:n:342:ILE:HD12	1:n:650:ILE:HD11	1.96	0.48
1:q:342:ILE:HD12	1:q:650:ILE:HD11	1.96	0.48
1:v:345:PHE:CE1	1:v:400:PHE:HD2	2.31	0.48
1:x:342:ILE:HD12	1:x:650:ILE:HD11	1.96	0.48
1:z:466:TYR:CD1	1:1:553:LYS:HG2	2.48	0.48
1:z:530:LYS:HG2	1:z:531:ASP:N	2.23	0.48
1:1:466:TYR:CD1	1:2:553:LYS:HG2	2.48	0.48
1:8:342:ILE:HD12	1:8:650:ILE:HD11	1.96	0.48
1:B:342:ILE:HD12	1:B:650:ILE:HD11	1.96	0.48
1:D:560:LEU:HB3	1:D:727:PRO:HD3	1.93	0.48
1:M:560:LEU:HB3	1:M:727:PRO:HD3	1.94	0.48
1:T:321:GLN:NE2	1:U:340:SER:HA	2.28	0.48
1:X:342:ILE:HD12	1:X:650:ILE:HD11	1.96	0.48
1:Z:553:LYS:HG2	1:3:466:TYR:CD1	2.48	0.48
1:e:321:GLN:NE2	1:h:340:SER:HA	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:260:GLN:OE1	1:g:275:PHE:HE1	1.94	0.48
1:g:321:GLN:NE2	1:l:340:SER:HA	2.28	0.48
1:m:321:GLN:NE2	1:s:340:SER:HA	2.28	0.48
1:o:511:TYR:HD2	1:o:520:VAL:HG22	1.77	0.48
1:u:340:SER:HA	1:5:321:GLN:NE2	2.28	0.48
1:u:622:LYS:HB2	1:u:644:PRO:HG3	1.94	0.48
1:v:260:GLN:OE1	1:v:275:PHE:HE1	1.94	0.48
1:x:530:LYS:HG2	1:x:531:ASP:N	2.23	0.48
1:1:342:ILE:HD12	1:1:650:ILE:HD11	1.96	0.48
1:1:511:TYR:HD2	1:1:520:VAL:HG22	1.78	0.48
1:3:560:LEU:HB3	1:3:727:PRO:HD3	1.94	0.48
1:4:603:LEU:HB2	1:4:606:MET:HE3	1.95	0.48
1:B:340:SER:HA	1:C:321:GLN:NE2	2.28	0.48
1:D:532:ASP:OD1	1:N:384:ASN:ND2	2.43	0.48
1:H:466:TYR:CD1	1:W:553:LYS:HG2	2.48	0.48
1:K:603:LEU:HB2	1:K:606:MET:HE3	1.95	0.48
1:M:340:SER:HA	1:c:321:GLN:NE2	2.29	0.48
1:O:622:LYS:HB2	1:O:644:PRO:HG3	1.94	0.48
1:P:345:PHE:CE1	1:P:400:PHE:HD2	2.31	0.48
1:R:345:PHE:CE1	1:R:400:PHE:HD2	2.31	0.48
1:Z:603:LEU:HB2	1:Z:606:MET:HE3	1.95	0.48
1:g:553:LYS:HG2	1:h:466:TYR:CD1	2.48	0.48
1:j:345:PHE:CE1	1:j:400:PHE:HD2	2.31	0.48
1:l:260:GLN:OE1	1:l:275:PHE:HE1	1.94	0.48
1:l:622:LYS:HB2	1:l:644:PRO:HG3	1.94	0.48
1:m:345:PHE:CE1	1:m:400:PHE:HD2	2.31	0.48
1:o:532:ASP:OD1	1:p:384:ASN:ND2	2.42	0.48
1:p:321:GLN:NE2	1:q:340:SER:HA	2.28	0.48
1:s:603:LEU:HB2	1:s:606:MET:HE3	1.95	0.48
1:v:340:SER:HA	1:1:321:GLN:NE2	2.29	0.48
1:w:466:TYR:CD1	1:x:553:LYS:HG2	2.48	0.48
1:A:260:GLN:OE1	1:A:275:PHE:HE1	1.94	0.48
1:A:603:LEU:HB2	1:A:606:MET:HE3	1.95	0.48
1:C:553:LYS:HG2	1:M:466:TYR:CD1	2.48	0.48
1:D:271:ASP:O	1:P:434:ARG:NH2	2.45	0.48
1:G:511:TYR:HD2	1:G:520:VAL:HG22	1.78	0.48
1:I:342:ILE:HD12	1:I:650:ILE:HD11	1.96	0.48
1:I:622:LYS:HB2	1:I:644:PRO:HG3	1.94	0.48
1:J:321:GLN:NE2	1:a:340:SER:HA	2.28	0.48
1:K:384:ASN:ND2	1:8:532:ASP:OD1	2.43	0.48
1:O:532:ASP:OD1	1:m:384:ASN:ND2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:226:SER:HG	1:Q:319:ASN:H	1.56	0.48
1:Q:622:LYS:HB2	1:Q:644:PRO:HG3	1.94	0.48
1:R:340:SER:HA	1:V:321:GLN:NE2	2.28	0.48
1:S:466:TYR:CD1	1:U:553:LYS:HG2	2.48	0.48
1:T:345:PHE:CE1	1:T:400:PHE:HD2	2.31	0.48
1:Z:345:PHE:CE1	1:Z:400:PHE:HD2	2.31	0.48
1:Z:532:ASP:OD1	1:4:384:ASN:ND2	2.43	0.48
1:e:511:TYR:HD2	1:e:520:VAL:HG22	1.77	0.48
1:m:511:TYR:HD2	1:m:520:VAL:HG22	1.78	0.48
1:o:342:ILE:HD12	1:o:650:ILE:HD11	1.96	0.48
1:q:345:PHE:CE1	1:q:400:PHE:HD2	2.31	0.48
1:r:340:SER:HA	1:x:321:GLN:NE2	2.29	0.48
1:r:466:TYR:CD1	1:s:553:LYS:HG2	2.48	0.48
1:s:511:TYR:HD2	1:s:520:VAL:HG22	1.78	0.48
1:t:511:TYR:HD2	1:t:520:VAL:HG22	1.78	0.48
1:u:342:ILE:HD12	1:u:650:ILE:HD11	1.96	0.48
1:v:603:LEU:HB2	1:v:606:MET:HE3	1.95	0.48
1:2:321:GLN:NE2	1:3:340:SER:HA	2.28	0.48
1:8:603:LEU:HB2	1:8:606:MET:HE3	1.95	0.48
1:E:466:TYR:CD1	1:Q:553:LYS:HG2	2.48	0.48
1:M:342:ILE:HD12	1:M:650:ILE:HD11	1.96	0.48
1:Q:321:GLN:NE2	1:S:340:SER:HA	2.29	0.48
1:T:384:ASN:ND2	1:l:532:ASP:OD1	2.43	0.48
1:U:603:LEU:HB2	1:U:606:MET:HE3	1.95	0.48
1:c:342:ILE:HD12	1:c:650:ILE:HD11	1.96	0.48
1:h:342:ILE:HD12	1:h:650:ILE:HD11	1.96	0.48
1:k:340:SER:HA	1:w:321:GLN:NE2	2.28	0.48
1:m:466:TYR:CD1	1:n:553:LYS:HG2	2.48	0.48
1:w:345:PHE:CE1	1:w:400:PHE:HD2	2.31	0.48
1:x:226:SER:HG	1:x:319:ASN:H	1.56	0.48
1:x:466:TYR:CD1	1:y:553:LYS:HG2	2.48	0.48
1:z:532:ASP:OD1	1:1:384:ASN:ND2	2.43	0.48
1:5:466:TYR:CD1	1:6:553:LYS:HG2	2.48	0.48
1:E:345:PHE:CE1	1:E:400:PHE:HD2	2.31	0.47
1:F:553:LYS:HG2	1:Q:466:TYR:CD1	2.48	0.47
1:N:345:PHE:CE1	1:N:400:PHE:HD2	2.31	0.47
1:T:466:TYR:CD1	1:d:553:LYS:HG2	2.48	0.47
1:T:511:TYR:HD2	1:T:520:VAL:HG22	1.78	0.47
1:U:511:TYR:HD2	1:U:520:VAL:HG22	1.78	0.47
1:V:384:ASN:ND2	1:X:532:ASP:OD1	2.42	0.47
1:X:384:ASN:ND2	1:e:532:ASP:OD1	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:511:TYR:HD2	1:c:520:VAL:HG22	1.77	0.47
1:e:226:SER:HG	1:e:319:ASN:H	1.55	0.47
1:e:342:ILE:HD12	1:e:650:ILE:HD11	1.96	0.47
1:e:345:PHE:CE1	1:e:400:PHE:HD2	2.31	0.47
1:g:384:ASN:ND2	1:h:532:ASP:OD1	2.43	0.47
1:p:230:HIS:O	1:p:245:THR:OG1	2.19	0.47
1:s:345:PHE:CE1	1:s:400:PHE:HD2	2.31	0.47
1:8:345:PHE:CE1	1:8:400:PHE:HD2	2.31	0.47
1:D:345:PHE:CE1	1:D:400:PHE:HD2	2.31	0.47
1:E:603:LEU:HB2	1:E:606:MET:HE3	1.95	0.47
1:E:703:THR:HG23	1:P:701:GLN:H	1.78	0.47
1:K:553:LYS:HG2	1:8:466:TYR:CD1	2.48	0.47
1:T:260:GLN:OE1	1:T:275:PHE:HE1	1.94	0.47
1:U:345:PHE:CE1	1:U:400:PHE:HD2	2.31	0.47
1:Z:466:TYR:CD1	1:4:553:LYS:HG2	2.48	0.47
1:c:226:SER:HG	1:c:319:ASN:H	1.55	0.47
1:c:345:PHE:CE1	1:c:400:PHE:HD2	2.31	0.47
1:c:532:ASP:OD1	1:o:384:ASN:ND2	2.43	0.47
1:i:342:ILE:HD12	1:i:650:ILE:HD11	1.96	0.47
1:i:345:PHE:CE1	1:i:400:PHE:HD2	2.31	0.47
1:q:321:GLN:NE2	1:y:340:SER:HA	2.29	0.47
1:w:603:LEU:HB2	1:w:606:MET:HE3	1.95	0.47
1:x:622:LYS:HB2	1:x:644:PRO:HG3	1.94	0.47
1:A:532:ASP:OD1	1:G:384:ASN:ND2	2.42	0.47
1:B:384:ASN:ND2	1:L:532:ASP:OD1	2.43	0.47
1:C:384:ASN:ND2	1:M:532:ASP:OD1	2.42	0.47
1:U:321:GLN:NE2	1:e:340:SER:HA	2.29	0.47
1:i:384:ASN:ND2	1:k:532:ASP:OD1	2.43	0.47
1:k:345:PHE:CE1	1:k:400:PHE:HD2	2.31	0.47
1:C:603:LEU:HB2	1:C:606:MET:HE3	1.95	0.47
1:E:530:LYS:HG2	1:E:531:ASP:N	2.23	0.47
1:F:340:SER:HA	1:R:321:GLN:NE2	2.29	0.47
1:N:342:ILE:HD12	1:N:650:ILE:HD11	1.96	0.47
1:P:367:PHE:CE2	1:P:369:ALA:HB3	2.50	0.47
1:c:340:SER:HA	1:s:321:GLN:NE2	2.29	0.47
1:c:367:PHE:CE2	1:c:369:ALA:HB3	2.50	0.47
1:e:367:PHE:CE2	1:e:369:ALA:HB3	2.50	0.47
1:j:367:PHE:CE2	1:j:369:ALA:HB3	2.50	0.47
1:m:260:GLN:OE1	1:m:275:PHE:HE1	1.94	0.47
1:t:384:ASN:ND2	1:v:532:ASP:OD1	2.43	0.47
1:w:530:LYS:HG2	1:w:531:ASP:N	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:485:CYS:HG	1:z:578:TYR:HB2	1.80	0.47
1:H:367:PHE:CE2	1:H:369:ALA:HB3	2.50	0.47
1:L:367:PHE:CE2	1:L:369:ALA:HB3	2.50	0.47
1:O:226:SER:HG	1:O:319:ASN:H	1.54	0.47
1:R:367:PHE:CE2	1:R:369:ALA:HB3	2.50	0.47
1:V:532:ASP:OD1	1:e:384:ASN:ND2	2.43	0.47
1:c:384:ASN:ND2	1:p:532:ASP:OD1	2.43	0.47
1:v:321:GLN:NE2	1:w:340:SER:HA	2.29	0.47
1:z:367:PHE:CE2	1:z:369:ALA:HB3	2.50	0.47
1:D:656:PRO:HD2	1:E:677:THR:HG21	1.97	0.47
1:G:342:ILE:HD12	1:G:650:ILE:HD11	1.95	0.47
1:S:530:LYS:HG2	1:S:531:ASP:N	2.23	0.47
1:U:367:PHE:CE2	1:U:369:ALA:HB3	2.50	0.47
1:V:230:HIS:O	1:V:245:THR:OG1	2.19	0.47
1:Y:367:PHE:CE2	1:Y:369:ALA:HB3	2.50	0.47
1:d:367:PHE:CE2	1:d:369:ALA:HB3	2.50	0.47
1:g:603:LEU:HB2	1:g:606:MET:HE3	1.95	0.47
1:n:367:PHE:CE2	1:n:369:ALA:HB3	2.50	0.47
1:q:367:PHE:CE2	1:q:369:ALA:HB3	2.50	0.47
1:v:367:PHE:CE2	1:v:369:ALA:HB3	2.50	0.47
1:7:367:PHE:CE2	1:7:369:ALA:HB3	2.50	0.47
1:A:321:GLN:NE2	1:E:340:SER:HA	2.29	0.47
1:A:342:ILE:HD12	1:A:650:ILE:HD11	1.96	0.47
1:A:367:PHE:CE2	1:A:369:ALA:HB3	2.50	0.47
1:A:439:LEU:HD21	1:G:278:SER:HB2	1.96	0.47
1:A:699:GLU:HG2	1:F:296:ARG:NE	2.30	0.47
1:C:582:SER:HA	1:C:594:THR:HG22	1.97	0.47
1:D:466:TYR:CD1	1:N:553:LYS:HG2	2.49	0.47
1:E:367:PHE:CE2	1:E:369:ALA:HB3	2.50	0.47
1:K:342:ILE:HD12	1:K:650:ILE:HD11	1.96	0.47
1:K:367:PHE:CE2	1:K:369:ALA:HB3	2.50	0.47
1:M:677:THR:HG21	1:N:656:PRO:HD2	1.97	0.47
1:N:367:PHE:CE2	1:N:369:ALA:HB3	2.50	0.47
1:N:582:SER:HA	1:N:594:THR:HG22	1.97	0.47
1:P:342:ILE:HD12	1:P:650:ILE:HD11	1.96	0.47
1:Q:699:GLU:HG2	1:R:296:ARG:NE	2.30	0.47
1:S:367:PHE:CE2	1:S:369:ALA:HB3	2.50	0.47
1:Y:296:ARG:NE	1:Z:699:GLU:HG2	2.30	0.47
1:Z:340:SER:HA	1:a:321:GLN:NE2	2.29	0.47
1:a:367:PHE:CE2	1:a:369:ALA:HB3	2.50	0.47
1:b:582:SER:HA	1:b:594:THR:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:582:SER:HA	1:f:594:THR:HG22	1.97	0.47
1:g:582:SER:HA	1:g:594:THR:HG22	1.97	0.47
1:h:699:GLU:HG2	1:k:296:ARG:NE	2.30	0.47
1:i:296:ARG:NE	1:l:699:GLU:HG2	2.30	0.47
1:i:553:LYS:HG2	1:k:466:TYR:CD1	2.49	0.47
1:i:582:SER:HA	1:i:594:THR:HG22	1.97	0.47
1:j:296:ARG:NE	1:w:699:GLU:HG2	2.30	0.47
1:j:342:ILE:HD12	1:j:650:ILE:HD11	1.96	0.47
1:k:342:ILE:HD12	1:k:650:ILE:HD11	1.95	0.47
1:m:367:PHE:CE2	1:m:369:ALA:HB3	2.50	0.47
1:p:582:SER:HA	1:p:594:THR:HG22	1.97	0.47
1:q:296:ARG:NE	1:x:699:GLU:HG2	2.30	0.47
1:r:367:PHE:CE2	1:r:369:ALA:HB3	2.50	0.47
1:r:530:LYS:HG2	1:r:531:ASP:N	2.23	0.47
1:s:342:ILE:HD12	1:s:650:ILE:HD11	1.96	0.47
1:s:367:PHE:CE2	1:s:369:ALA:HB3	2.50	0.47
1:t:342:ILE:HD12	1:t:650:ILE:HD11	1.95	0.47
1:v:342:ILE:HD12	1:v:650:ILE:HD11	1.96	0.47
1:w:367:PHE:CE2	1:w:369:ALA:HB3	2.50	0.47
1:z:603:LEU:HB2	1:z:606:MET:HE3	1.95	0.47
1:3:321:GLN:NE2	1:8:340:SER:HA	2.29	0.47
1:3:367:PHE:CE2	1:3:369:ALA:HB3	2.50	0.47
1:4:342:ILE:HD12	1:4:650:ILE:HD11	1.96	0.47
1:4:367:PHE:CE2	1:4:369:ALA:HB3	2.50	0.47
1:5:367:PHE:CE2	1:5:369:ALA:HB3	2.50	0.47
1:7:296:ARG:NE	1:8:699:GLU:HG2	2.30	0.47
1:7:582:SER:HA	1:7:594:THR:HG22	1.97	0.47
1:B:582:SER:HA	1:B:594:THR:HG22	1.97	0.47
1:C:367:PHE:CE2	1:C:369:ALA:HB3	2.50	0.47
1:D:342:ILE:HD12	1:D:650:ILE:HD11	1.96	0.47
1:D:367:PHE:CE2	1:D:369:ALA:HB3	2.50	0.47
1:L:342:ILE:HD12	1:L:650:ILE:HD11	1.96	0.47
1:L:603:LEU:HB2	1:L:606:MET:HE3	1.95	0.47
1:R:278:SER:HB2	1:U:439:LEU:HD21	1.97	0.47
1:T:367:PHE:CE2	1:T:369:ALA:HB3	2.50	0.47
1:V:582:SER:HA	1:V:594:THR:HG22	1.97	0.47
1:Y:582:SER:HA	1:Y:594:THR:HG22	1.97	0.47
1:Z:367:PHE:CE2	1:Z:369:ALA:HB3	2.50	0.47
1:a:439:LEU:HD21	1:8:278:SER:HB2	1.97	0.47
1:d:603:LEU:HB2	1:d:606:MET:HE3	1.95	0.47
1:k:367:PHE:CE2	1:k:369:ALA:HB3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:699:GLU:HG2	1:r:296:ARG:NE	2.30	0.47
1:o:703:THR:HG23	1:6:701:GLN:H	1.80	0.47
1:q:278:SER:HB2	1:s:439:LEU:HD21	1.97	0.47
1:v:699:GLU:HG2	1:y:296:ARG:NE	2.30	0.47
1:l:582:SER:HA	1:l:594:THR:HG22	1.97	0.47
1:B:296:ARG:NE	1:I:699:GLU:HG2	2.30	0.47
1:D:502:ASN:HA	1:P:450:THR:OG1	2.14	0.47
1:E:342:ILE:HD12	1:E:650:ILE:HD11	1.95	0.47
1:H:384:ASN:ND2	1:Y:532:ASP:OD1	2.43	0.47
1:U:342:ILE:HD12	1:U:650:ILE:HD11	1.96	0.47
1:W:532:ASP:OD1	1:Y:384:ASN:ND2	2.43	0.47
1:W:701:GLN:H	1:X:703:THR:HG23	1.80	0.47
1:Z:278:SER:HB2	1:3:439:LEU:HD21	1.97	0.47
1:d:582:SER:HA	1:d:594:THR:HG22	1.97	0.47
1:g:367:PHE:CE2	1:g:369:ALA:HB3	2.50	0.47
1:h:677:THR:HG21	1:i:656:PRO:HD2	1.97	0.47
1:i:367:PHE:CE2	1:i:369:ALA:HB3	2.50	0.47
1:j:439:LEU:HD21	1:k:278:SER:HB2	1.97	0.47
1:n:603:LEU:HB2	1:n:606:MET:HE3	1.95	0.47
1:o:699:GLU:HG2	1:6:296:ARG:NE	2.30	0.47
1:u:699:GLU:HG2	1:l:296:ARG:NE	2.30	0.47
1:w:342:ILE:HD12	1:w:650:ILE:HD11	1.96	0.47
1:z:342:ILE:HD12	1:z:650:ILE:HD11	1.96	0.47
1:2:708:LYS:HD2	1:3:387:GLN:OE1	2.15	0.47
1:8:367:PHE:CE2	1:8:369:ALA:HB3	2.50	0.47
1:A:528:THR:HG23	1:A:564:GLU:H	1.81	0.47
1:D:296:ARG:NE	1:M:699:GLU:HG2	2.30	0.47
1:G:367:PHE:CE2	1:G:369:ALA:HB3	2.50	0.47
1:H:677:THR:HG21	1:I:656:PRO:HD2	1.97	0.47
1:J:708:LYS:HD2	1:a:387:GLN:OE1	2.15	0.47
1:M:367:PHE:CE2	1:M:369:ALA:HB3	2.50	0.47
1:N:296:ARG:NE	1:O:699:GLU:HG2	2.30	0.47
1:S:296:ARG:NE	1:T:699:GLU:HG2	2.30	0.47
1:S:439:LEU:HD21	1:U:278:SER:HB2	1.97	0.47
1:T:342:ILE:HD12	1:T:650:ILE:HD11	1.96	0.47
1:T:387:GLN:OE1	1:i:708:LYS:HD2	2.15	0.47
1:W:296:ARG:NE	1:X:699:GLU:HG2	2.30	0.47
1:W:367:PHE:CE2	1:W:369:ALA:HB3	2.50	0.47
1:Y:511:TYR:HD2	1:Y:520:VAL:HG22	1.78	0.47
1:Z:582:SER:HA	1:Z:594:THR:HG22	1.97	0.47
1:b:296:ARG:NE	1:c:699:GLU:HG2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:699:GLU:HG2	1:f:296:ARG:NE	2.30	0.47
1:h:367:PHE:CE2	1:h:369:ALA:HB3	2.50	0.47
1:i:503:PHE:CZ	1:k:450:THR:HG21	2.50	0.47
1:r:439:LEU:HD21	1:s:278:SER:HB2	1.97	0.47
1:v:296:ARG:NE	1:y:699:GLU:HG2	2.30	0.47
1:v:528:THR:HG23	1:v:564:GLU:H	1.81	0.47
1:5:384:ASN:ND2	1:7:532:ASP:OD1	2.43	0.47
1:7:511:TYR:HD2	1:7:520:VAL:HG22	1.78	0.47
1:8:485:CYS:HG	1:8:578:TYR:HB2	1.77	0.47
1:A:656:PRO:HD2	1:B:677:THR:HG21	1.98	0.46
1:G:528:THR:HG23	1:G:564:GLU:H	1.80	0.46
1:K:503:PHE:CZ	1:8:450:THR:HG21	2.51	0.46
1:N:530:LYS:HG2	1:N:531:ASP:N	2.23	0.46
1:U:582:SER:HA	1:U:594:THR:HG22	1.97	0.46
1:a:296:ARG:NE	1:3:699:GLU:HG2	2.30	0.46
1:d:296:ARG:NE	1:n:699:GLU:HG2	2.30	0.46
1:m:342:ILE:HD12	1:m:650:ILE:HD11	1.96	0.46
1:n:582:SER:HA	1:n:594:THR:HG22	1.97	0.46
1:q:699:GLU:HG2	1:x:296:ARG:NE	2.30	0.46
1:s:582:SER:HA	1:s:594:THR:HG22	1.97	0.46
1:t:367:PHE:CE2	1:t:369:ALA:HB3	2.50	0.46
1:t:528:THR:HG23	1:t:564:GLU:H	1.80	0.46
1:u:439:LEU:HD21	1:v:278:SER:HB2	1.97	0.46
1:u:656:PRO:HD2	1:5:677:THR:HG21	1.97	0.46
1:w:384:ASN:ND2	1:y:532:ASP:OD1	2.43	0.46
1:3:278:SER:HB2	1:4:439:LEU:HD21	1.97	0.46
1:6:367:PHE:CE2	1:6:369:ALA:HB3	2.50	0.46
1:8:582:SER:HA	1:8:594:THR:HG22	1.97	0.46
1:D:450:THR:HG21	1:N:503:PHE:CZ	2.50	0.46
1:E:450:THR:HG21	1:Q:503:PHE:CZ	2.51	0.46
1:F:236:LEU:HD12	1:F:236:LEU:O	2.16	0.46
1:H:236:LEU:HD12	1:H:236:LEU:O	2.16	0.46
1:K:439:LEU:HD21	1:a:278:SER:HB2	1.97	0.46
1:N:528:THR:HG23	1:N:564:GLU:H	1.81	0.46
1:O:367:PHE:CE2	1:O:369:ALA:HB3	2.50	0.46
1:V:656:PRO:HD2	1:W:677:THR:HG21	1.97	0.46
1:X:367:PHE:CE2	1:X:369:ALA:HB3	2.50	0.46
1:Z:450:THR:HG21	1:4:503:PHE:CZ	2.51	0.46
1:a:582:SER:HA	1:a:594:THR:HG22	1.97	0.46
1:a:699:GLU:HG2	1:3:296:ARG:NE	2.30	0.46
1:c:582:SER:HA	1:c:594:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:699:GLU:HG2	1:n:296:ARG:NE	2.30	0.46
1:g:503:PHE:CZ	1:h:450:THR:HG21	2.50	0.46
1:i:528:THR:HG23	1:i:564:GLU:H	1.81	0.46
1:i:530:LYS:HG2	1:i:531:ASP:N	2.23	0.46
1:k:656:PRO:HD2	1:w:677:THR:HG21	1.98	0.46
1:p:342:ILE:HD12	1:p:650:ILE:HD11	1.96	0.46
1:u:236:LEU:O	1:u:236:LEU:HD12	2.16	0.46
1:w:503:PHE:CZ	1:y:450:THR:HG21	2.51	0.46
1:x:236:LEU:O	1:x:236:LEU:HD12	2.16	0.46
1:y:236:LEU:HD12	1:y:236:LEU:O	2.16	0.46
1:1:367:PHE:CE2	1:1:369:ALA:HB3	2.50	0.46
1:5:236:LEU:HD12	1:5:236:LEU:O	2.16	0.46
1:5:450:THR:HG21	1:6:503:PHE:CZ	2.51	0.46
1:6:532:ASP:OD1	1:7:384:ASN:ND2	2.43	0.46
1:A:296:ARG:NE	1:F:699:GLU:HG2	2.30	0.46
1:B:367:PHE:CE2	1:B:369:ALA:HB3	2.50	0.46
1:C:296:ARG:NE	1:L:699:GLU:HG2	2.30	0.46
1:C:503:PHE:CZ	1:M:450:THR:HG21	2.51	0.46
1:D:487:ARG:O	1:P:581:VAL:HG23	2.15	0.46
1:E:236:LEU:HD12	1:E:236:LEU:O	2.16	0.46
1:E:503:PHE:CZ	1:F:450:THR:HG21	2.51	0.46
1:H:450:THR:HG21	1:W:503:PHE:CZ	2.51	0.46
1:I:236:LEU:HD12	1:I:236:LEU:O	2.16	0.46
1:J:236:LEU:O	1:J:236:LEU:HD12	2.16	0.46
1:K:528:THR:HG23	1:K:564:GLU:H	1.81	0.46
1:Q:236:LEU:HD12	1:Q:236:LEU:O	2.16	0.46
1:Q:296:ARG:NE	1:R:699:GLU:HG2	2.31	0.46
1:U:236:LEU:HD12	1:U:236:LEU:O	2.16	0.46
1:V:236:LEU:HD12	1:V:236:LEU:O	2.16	0.46
1:V:342:ILE:HD12	1:V:650:ILE:HD11	1.96	0.46
1:W:236:LEU:HD12	1:W:236:LEU:O	2.16	0.46
1:X:528:THR:HG23	1:X:564:GLU:H	1.81	0.46
1:Z:485:CYS:HG	1:Z:578:TYR:HB2	1.77	0.46
1:d:528:THR:HG23	1:d:564:GLU:H	1.81	0.46
1:e:582:SER:HA	1:e:594:THR:HG22	1.97	0.46
1:g:656:PRO:HD2	1:k:677:THR:HG21	1.97	0.46
1:h:679:GLN:NE2	1:i:653:THR:HG21	2.30	0.46
1:l:367:PHE:CE2	1:l:369:ALA:HB3	2.50	0.46
1:n:528:THR:HG23	1:n:564:GLU:H	1.81	0.46
1:o:367:PHE:CE2	1:o:369:ALA:HB3	2.50	0.46
1:o:528:THR:HG23	1:o:564:GLU:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:236:LEU:HD12	1:p:236:LEU:O	2.16	0.46
1:p:656:PRO:HD2	1:6:677:THR:HG21	1.97	0.46
1:s:236:LEU:HD12	1:s:236:LEU:O	2.16	0.46
1:w:450:THR:HG21	1:x:503:PHE:CZ	2.51	0.46
1:2:236:LEU:HD12	1:2:236:LEU:O	2.16	0.46
1:3:582:SER:HA	1:3:594:THR:HG22	1.97	0.46
1:4:528:THR:HG23	1:4:564:GLU:H	1.81	0.46
1:6:236:LEU:HD12	1:6:236:LEU:O	2.16	0.46
1:E:528:THR:HG23	1:E:564:GLU:H	1.81	0.46
1:G:450:THR:HG21	1:I:503:PHE:CZ	2.51	0.46
1:H:656:PRO:HD2	1:Z:677:THR:HG21	1.97	0.46
1:I:367:PHE:CE2	1:I:369:ALA:HB3	2.50	0.46
1:J:367:PHE:CE2	1:J:369:ALA:HB3	2.50	0.46
1:J:699:GLU:HG2	1:K:296:ARG:NE	2.31	0.46
1:L:582:SER:HA	1:L:594:THR:HG22	1.97	0.46
1:N:677:THR:HG21	1:m:656:PRO:HD2	1.98	0.46
1:R:450:THR:HG21	1:S:503:PHE:CZ	2.51	0.46
1:U:699:GLU:HG2	1:V:296:ARG:NE	2.31	0.46
1:V:367:PHE:CE2	1:V:369:ALA:HB3	2.50	0.46
1:X:236:LEU:HD12	1:X:236:LEU:O	2.16	0.46
1:Y:528:THR:HG23	1:Y:564:GLU:H	1.81	0.46
1:a:236:LEU:HD12	1:a:236:LEU:O	2.16	0.46
1:a:528:THR:HG23	1:a:564:GLU:H	1.81	0.46
1:e:296:ARG:NE	1:f:699:GLU:HG2	2.30	0.46
1:f:367:PHE:CE2	1:f:369:ALA:HB3	2.50	0.46
1:g:296:ARG:NE	1:z:699:GLU:HG2	2.31	0.46
1:j:708:LYS:HD2	1:x:387:GLN:OE1	2.15	0.46
1:q:450:THR:HG21	1:r:503:PHE:CZ	2.51	0.46
1:t:278:SER:HB2	1:v:439:LEU:HD21	1.97	0.46
1:t:450:THR:HG21	1:u:503:PHE:CZ	2.51	0.46
1:u:367:PHE:CE2	1:u:369:ALA:HB3	2.50	0.46
1:w:236:LEU:HD12	1:w:236:LEU:O	2.16	0.46
1:w:528:THR:HG23	1:w:564:GLU:H	1.81	0.46
1:2:699:GLU:HG2	1:4:296:ARG:NE	2.31	0.46
1:3:236:LEU:HD12	1:3:236:LEU:O	2.16	0.46
1:C:450:THR:HG21	1:b:503:PHE:CZ	2.51	0.46
1:E:384:ASN:ND2	1:F:532:ASP:OD1	2.43	0.46
1:F:582:SER:HA	1:F:594:THR:HG22	1.97	0.46
1:H:708:LYS:HD2	1:I:387:GLN:OE1	2.16	0.46
1:I:343:GLN:O	1:I:650:ILE:HA	2.16	0.46
1:J:450:THR:HG21	1:L:503:PHE:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:236:LEU:HD12	1:K:236:LEU:O	2.16	0.46
1:M:656:PRO:HD2	1:c:677:THR:HG21	1.98	0.46
1:O:343:GLN:O	1:O:650:ILE:HA	2.16	0.46
1:R:343:GLN:O	1:R:650:ILE:HA	2.16	0.46
1:S:450:THR:HG21	1:U:503:PHE:CZ	2.51	0.46
1:U:528:THR:HG23	1:U:564:GLU:H	1.81	0.46
1:V:450:THR:HG21	1:e:503:PHE:CZ	2.51	0.46
1:V:503:PHE:CZ	1:X:450:THR:HG21	2.51	0.46
1:W:528:THR:HG23	1:W:564:GLU:H	1.80	0.46
1:W:699:GLU:HG2	1:X:296:ARG:NE	2.31	0.46
1:X:582:SER:HA	1:X:594:THR:HG22	1.97	0.46
1:Y:708:LYS:HD2	1:4:387:GLN:OE1	2.16	0.46
1:b:236:LEU:O	1:b:236:LEU:HD12	2.16	0.46
1:b:699:GLU:HG2	1:c:296:ARG:NE	2.30	0.46
1:b:701:GLN:H	1:c:703:THR:HG23	1.81	0.46
1:c:503:PHE:CZ	1:p:450:THR:HG21	2.51	0.46
1:c:656:PRO:HD2	1:s:677:THR:HG21	1.98	0.46
1:e:677:THR:HG21	1:h:656:PRO:HD2	1.98	0.46
1:e:703:THR:HG23	1:f:701:GLN:H	1.81	0.46
1:g:699:GLU:HG2	1:z:296:ARG:NE	2.30	0.46
1:i:236:LEU:HD12	1:i:236:LEU:O	2.16	0.46
1:i:439:LEU:HD21	1:j:278:SER:HB2	1.96	0.46
1:j:450:THR:HG21	1:k:503:PHE:CZ	2.51	0.46
1:j:699:GLU:HG2	1:w:296:ARG:NE	2.31	0.46
1:l:343:GLN:O	1:l:650:ILE:HA	2.16	0.46
1:o:236:LEU:HD12	1:o:236:LEU:O	2.16	0.46
1:o:450:THR:HG21	1:p:503:PHE:CZ	2.51	0.46
1:p:296:ARG:NE	1:s:699:GLU:HG2	2.31	0.46
1:q:582:SER:HA	1:q:594:THR:HG22	1.97	0.46
1:r:450:THR:HG21	1:s:503:PHE:CZ	2.51	0.46
1:u:387:GLN:OE1	1:5:708:LYS:HD2	2.16	0.46
1:v:656:PRO:HD2	1:1:677:THR:HG21	1.98	0.46
1:z:582:SER:HA	1:z:594:THR:HG22	1.97	0.46
1:2:367:PHE:CE2	1:2:369:ALA:HB3	2.50	0.46
1:3:528:THR:HG23	1:3:564:GLU:H	1.81	0.46
1:4:236:LEU:HD12	1:4:236:LEU:O	2.16	0.46
1:5:656:PRO:HD2	1:8:677:THR:HG21	1.97	0.46
1:6:528:THR:HG23	1:6:564:GLU:H	1.80	0.46
1:7:528:THR:HG23	1:7:564:GLU:H	1.81	0.46
1:8:345:PHE:CZ	1:8:649:LEU:HD12	2.51	0.46
1:A:278:SER:HB2	1:I:439:LEU:HD21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:387:GLN:OE1	1:B:708:LYS:HD2	2.16	0.46
1:A:503:PHE:CZ	1:I:450:THR:HG21	2.50	0.46
1:B:703:THR:HG23	1:I:701:GLN:H	1.81	0.46
1:C:528:THR:HG23	1:C:564:GLU:H	1.80	0.46
1:C:653:THR:HG21	1:D:679:GLN:NE2	2.31	0.46
1:C:656:PRO:HD2	1:D:677:THR:HG21	1.98	0.46
1:D:352:LEU:HG	1:D:400:PHE:HE2	1.81	0.46
1:D:439:LEU:HD21	1:N:278:SER:HB2	1.98	0.46
1:D:528:THR:HG23	1:D:564:GLU:H	1.80	0.46
1:F:677:THR:HG21	1:G:656:PRO:HD2	1.98	0.46
1:H:343:GLN:O	1:H:650:ILE:HA	2.16	0.46
1:H:582:SER:HA	1:H:594:THR:HG22	1.97	0.46
1:J:582:SER:HA	1:J:594:THR:HG22	1.97	0.46
1:K:345:PHE:CZ	1:K:649:LEU:HD12	2.51	0.46
1:K:387:GLN:OE1	1:7:708:LYS:HD2	2.16	0.46
1:K:450:THR:HG21	1:a:503:PHE:CZ	2.51	0.46
1:L:352:LEU:HG	1:L:400:PHE:HE2	1.81	0.46
1:M:582:SER:HA	1:M:594:THR:HG22	1.97	0.46
1:M:679:GLN:NE2	1:N:653:THR:HG21	2.31	0.46
1:N:699:GLU:HG2	1:O:296:ARG:NE	2.31	0.46
1:O:397:LEU:HD23	1:O:649:LEU:HD13	1.98	0.46
1:Q:367:PHE:CE2	1:Q:369:ALA:HB3	2.50	0.46
1:R:387:GLN:OE1	1:V:708:LYS:HD2	2.16	0.46
1:R:582:SER:HA	1:R:594:THR:HG22	1.97	0.46
1:T:677:THR:HG21	1:U:656:PRO:HD2	1.98	0.46
1:U:677:THR:HG21	1:e:656:PRO:HD2	1.98	0.46
1:Y:236:LEU:HD12	1:Y:236:LEU:O	2.16	0.46
1:Y:703:THR:HG23	1:Z:701:GLN:H	1.81	0.46
1:Z:345:PHE:CZ	1:Z:649:LEU:HD12	2.51	0.46
1:a:343:GLN:O	1:a:650:ILE:HA	2.16	0.46
1:b:367:PHE:CE2	1:b:369:ALA:HB3	2.50	0.46
1:d:236:LEU:HD12	1:d:236:LEU:O	2.16	0.46
1:d:701:GLN:H	1:n:703:THR:HG23	1.81	0.46
1:d:703:THR:HG23	1:n:701:GLN:H	1.81	0.46
1:f:236:LEU:HD12	1:f:236:LEU:O	2.16	0.46
1:f:503:PHE:CZ	1:g:450:THR:HG21	2.51	0.46
1:g:701:GLN:H	1:z:703:THR:HG23	1.81	0.46
1:g:708:LYS:HD2	1:l:387:GLN:OE1	2.16	0.46
1:h:397:LEU:HD23	1:h:649:LEU:HD13	1.98	0.46
1:h:582:SER:HA	1:h:594:THR:HG22	1.97	0.46
1:j:679:GLN:NE2	1:x:653:THR:HG21	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:677:THR:HG21	1:s:656:PRO:HD2	1.98	0.46
1:o:296:ARG:NE	1:6:699:GLU:HG2	2.31	0.46
1:o:582:SER:HA	1:o:594:THR:HG22	1.97	0.46
1:p:367:PHE:CE2	1:p:369:ALA:HB3	2.50	0.46
1:p:528:THR:HG23	1:p:564:GLU:H	1.80	0.46
1:q:343:GLN:O	1:q:650:ILE:HA	2.16	0.46
1:s:528:THR:HG23	1:s:564:GLU:H	1.81	0.46
1:u:343:GLN:O	1:u:650:ILE:HA	2.16	0.46
1:u:701:GLN:H	1:1:703:THR:HG23	1.81	0.46
1:v:701:GLN:H	1:y:703:THR:HG23	1.81	0.46
1:x:343:GLN:O	1:x:650:ILE:HA	2.16	0.46
1:y:582:SER:HA	1:y:594:THR:HG22	1.97	0.46
1:z:352:LEU:HG	1:z:400:PHE:HE2	1.81	0.46
1:z:503:PHE:CZ	1:2:450:THR:HG21	2.51	0.46
1:1:343:GLN:O	1:1:650:ILE:HA	2.16	0.46
1:2:582:SER:HA	1:2:594:THR:HG22	1.97	0.46
1:3:343:GLN:O	1:3:650:ILE:HA	2.16	0.46
1:3:503:PHE:CZ	1:4:450:THR:HG21	2.51	0.46
1:4:345:PHE:CZ	1:4:649:LEU:HD12	2.51	0.46
1:5:343:GLN:O	1:5:650:ILE:HA	2.16	0.46
1:7:236:LEU:O	1:7:236:LEU:HD12	2.16	0.46
1:A:352:LEU:HG	1:A:400:PHE:HE2	1.81	0.46
1:B:343:GLN:O	1:B:650:ILE:HA	2.16	0.46
1:B:387:GLN:OE1	1:C:708:LYS:HD2	2.16	0.46
1:B:656:PRO:HD2	1:C:677:THR:HG21	1.98	0.46
1:C:343:GLN:O	1:C:650:ILE:HA	2.16	0.46
1:C:699:GLU:HG2	1:L:296:ARG:NE	2.30	0.46
1:C:701:GLN:H	1:L:703:THR:HG23	1.81	0.46
1:G:703:THR:HG23	1:H:701:GLN:H	1.80	0.46
1:I:708:LYS:HD2	1:J:387:GLN:OE1	2.16	0.46
1:J:343:GLN:O	1:J:650:ILE:HA	2.16	0.46
1:J:352:LEU:HG	1:J:400:PHE:HE2	1.81	0.46
1:K:656:PRO:HD2	1:7:677:THR:HG21	1.98	0.46
1:M:236:LEU:HD12	1:M:236:LEU:O	2.16	0.46
1:M:345:PHE:CZ	1:M:649:LEU:HD12	2.51	0.46
1:N:236:LEU:HD12	1:N:236:LEU:O	2.16	0.46
1:O:236:LEU:HD12	1:O:236:LEU:O	2.16	0.46
1:Q:343:GLN:O	1:Q:650:ILE:HA	2.16	0.46
1:R:345:PHE:CZ	1:R:649:LEU:HD12	2.51	0.46
1:S:582:SER:HA	1:S:594:THR:HG22	1.97	0.46
1:T:236:LEU:HD12	1:T:236:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:296:ARG:NE	1:V:699:GLU:HG2	2.30	0.46
1:V:528:THR:HG23	1:V:564:GLU:H	1.80	0.46
1:Y:677:THR:HG21	1:4:656:PRO:HD2	1.98	0.46
1:Z:352:LEU:HG	1:Z:400:PHE:HE2	1.81	0.46
1:Z:503:PHE:CZ	1:3:450:THR:HG21	2.51	0.46
1:c:352:LEU:HG	1:c:400:PHE:HE2	1.81	0.46
1:e:352:LEU:HG	1:e:400:PHE:HE2	1.81	0.46
1:g:343:GLN:O	1:g:650:ILE:HA	2.16	0.46
1:g:528:THR:HG23	1:g:564:GLU:H	1.81	0.46
1:h:236:LEU:HD12	1:h:236:LEU:O	2.16	0.46
1:k:352:LEU:HG	1:k:400:PHE:HE2	1.81	0.46
1:k:528:THR:HG23	1:k:564:GLU:H	1.81	0.46
1:l:226:SER:HG	1:l:319:ASN:H	1.55	0.46
1:l:397:LEU:HD23	1:l:649:LEU:HD13	1.98	0.46
1:n:236:LEU:HD12	1:n:236:LEU:O	2.16	0.46
1:q:345:PHE:CZ	1:q:649:LEU:HD12	2.51	0.46
1:t:677:THR:HG21	1:6:656:PRO:HD2	1.97	0.46
1:t:703:THR:HG23	1:5:701:GLN:H	1.80	0.46
1:u:450:THR:HG21	1:v:503:PHE:CZ	2.51	0.46
1:u:708:LYS:HD2	1:2:387:GLN:OE1	2.16	0.46
1:x:367:PHE:CE2	1:x:369:ALA:HB3	2.50	0.46
1:1:397:LEU:HD23	1:1:649:LEU:HD13	1.98	0.46
1:2:343:GLN:O	1:2:650:ILE:HA	2.16	0.46
1:2:352:LEU:HG	1:2:400:PHE:HE2	1.81	0.46
1:5:582:SER:HA	1:5:594:THR:HG22	1.97	0.46
1:7:703:THR:HG23	1:8:701:GLN:H	1.81	0.46
1:8:352:LEU:HG	1:8:400:PHE:HE2	1.81	0.46
1:A:345:PHE:CZ	1:A:649:LEU:HD12	2.51	0.46
1:A:701:GLN:H	1:F:703:THR:HG23	1.81	0.46
1:B:278:SER:HB2	1:L:439:LEU:HD21	1.97	0.46
1:B:397:LEU:HD23	1:B:649:LEU:HD13	1.98	0.46
1:D:653:THR:HG21	1:E:679:GLN:NE2	2.31	0.46
1:F:528:THR:HG23	1:F:564:GLU:H	1.81	0.46
1:G:397:LEU:HD23	1:G:649:LEU:HD13	1.98	0.46
1:G:677:THR:HG21	1:W:656:PRO:HD2	1.97	0.46
1:H:530:LYS:HG2	1:H:531:ASP:N	2.23	0.46
1:J:296:ARG:NE	1:K:699:GLU:HG2	2.30	0.46
1:M:397:LEU:HD23	1:M:649:LEU:HD13	1.98	0.46
1:O:345:PHE:CZ	1:O:649:LEU:HD12	2.51	0.46
1:O:387:GLN:OE1	1:d:708:LYS:HD2	2.16	0.46
1:O:503:PHE:CZ	1:n:450:THR:HG21	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:352:LEU:HG	1:R:400:PHE:HE2	1.81	0.46
1:R:653:THR:HG21	1:V:679:GLN:NE2	2.31	0.46
1:S:298:TRP:HE1	1:S:728:ILE:HG22	1.81	0.46
1:S:352:LEU:HG	1:S:400:PHE:HE2	1.81	0.46
1:T:503:PHE:CZ	1:l:450:THR:HG21	2.51	0.46
1:U:343:GLN:O	1:U:650:ILE:HA	2.16	0.46
1:W:345:PHE:CZ	1:W:649:LEU:HD12	2.51	0.46
1:Y:699:GLU:HG2	1:Z:296:ARG:NE	2.31	0.46
1:Y:701:GLN:H	1:Z:703:THR:HG23	1.80	0.46
1:Z:387:GLN:OE1	1:a:708:LYS:HD2	2.16	0.46
1:a:397:LEU:HD23	1:a:649:LEU:HD13	1.98	0.46
1:a:450:THR:HG21	1:8:503:PHE:CZ	2.51	0.46
1:c:236:LEU:HD12	1:c:236:LEU:O	2.16	0.46
1:d:450:THR:HG21	1:l:503:PHE:CZ	2.51	0.46
1:e:236:LEU:O	1:e:236:LEU:HD12	2.16	0.46
1:e:345:PHE:CZ	1:e:649:LEU:HD12	2.51	0.46
1:e:397:LEU:HD23	1:e:649:LEU:HD13	1.98	0.46
1:g:352:LEU:HG	1:g:400:PHE:HE2	1.81	0.46
1:g:653:THR:HG21	1:k:679:GLN:NE2	2.31	0.46
1:g:677:THR:HG21	1:l:656:PRO:HD2	1.98	0.46
1:g:703:THR:HG23	1:z:701:GLN:H	1.81	0.46
1:h:345:PHE:CZ	1:h:649:LEU:HD12	2.51	0.46
1:i:701:GLN:H	1:l:703:THR:HG23	1.80	0.46
1:l:236:LEU:HD12	1:l:236:LEU:O	2.16	0.46
1:l:345:PHE:CZ	1:l:649:LEU:HD12	2.51	0.46
1:l:387:GLN:OE1	1:n:708:LYS:HD2	2.16	0.46
1:m:236:LEU:O	1:m:236:LEU:HD12	2.16	0.46
1:p:679:GLN:NE2	1:q:653:THR:HG21	2.31	0.46
1:p:708:LYS:HD2	1:q:387:GLN:OE1	2.16	0.46
1:q:236:LEU:HD12	1:q:236:LEU:O	2.16	0.46
1:r:298:TRP:HE1	1:r:728:ILE:HG22	1.81	0.46
1:r:582:SER:HA	1:r:594:THR:HG22	1.97	0.46
1:t:236:LEU:HD12	1:t:236:LEU:O	2.16	0.46
1:t:656:PRO:HD2	1:y:677:THR:HG21	1.98	0.46
1:u:677:THR:HG21	1:2:656:PRO:HD2	1.98	0.46
1:v:345:PHE:CZ	1:v:649:LEU:HD12	2.51	0.46
1:v:352:LEU:HG	1:v:400:PHE:HE2	1.81	0.46
1:w:343:GLN:O	1:w:650:ILE:HA	2.16	0.46
1:x:352:LEU:HG	1:x:400:PHE:HE2	1.81	0.46
1:y:367:PHE:CE2	1:y:369:ALA:HB3	2.50	0.46
1:z:439:LEU:HD21	1:1:278:SER:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:528:THR:HG23	1:z:564:GLU:H	1.81	0.46
1:1:230:HIS:O	1:1:245:THR:OG1	2.19	0.46
1:3:384:ASN:ND2	1:4:532:ASP:OD1	2.43	0.46
1:3:397:LEU:HD23	1:3:649:LEU:HD13	1.98	0.46
1:7:397:LEU:HD23	1:7:649:LEU:HD13	1.98	0.46
1:7:699:GLU:HG2	1:8:296:ARG:NE	2.30	0.46
1:A:582:SER:HA	1:A:594:THR:HG22	1.97	0.46
1:C:352:LEU:HG	1:C:400:PHE:HE2	1.81	0.46
1:E:343:GLN:O	1:E:650:ILE:HA	2.16	0.46
1:E:582:SER:HA	1:E:594:THR:HG22	1.97	0.46
1:F:367:PHE:CE2	1:F:369:ALA:HB3	2.50	0.46
1:G:236:LEU:HD12	1:G:236:LEU:O	2.16	0.46
1:G:343:GLN:O	1:G:650:ILE:HA	2.16	0.46
1:G:699:GLU:HG2	1:H:296:ARG:NE	2.30	0.46
1:H:528:THR:HG23	1:H:564:GLU:H	1.81	0.46
1:I:677:THR:HG21	1:J:656:PRO:HD2	1.98	0.46
1:J:532:ASP:OD1	1:L:384:ASN:ND2	2.43	0.46
1:L:528:THR:HG23	1:L:564:GLU:H	1.81	0.46
1:M:343:GLN:O	1:M:650:ILE:HA	2.16	0.46
1:N:708:LYS:HD2	1:m:387:GLN:OE1	2.15	0.46
1:O:298:TRP:HE1	1:O:728:ILE:HG22	1.81	0.46
1:O:450:THR:HG21	1:m:503:PHE:CZ	2.50	0.46
1:O:528:THR:HG23	1:O:564:GLU:H	1.81	0.46
1:O:679:GLN:NE2	1:P:653:THR:HG21	2.30	0.46
1:Q:485:CYS:HG	1:Q:578:TYR:HB2	1.80	0.46
1:R:236:LEU:O	1:R:236:LEU:HD12	2.16	0.46
1:W:343:GLN:O	1:W:650:ILE:HA	2.16	0.46
1:W:450:THR:HG21	1:Y:503:PHE:CZ	2.50	0.46
1:X:298:TRP:HE1	1:X:728:ILE:HG22	1.81	0.46
1:Y:345:PHE:CZ	1:Y:649:LEU:HD12	2.51	0.46
1:Y:352:LEU:HG	1:Y:400:PHE:HE2	1.81	0.46
1:Y:397:LEU:HD23	1:Y:649:LEU:HD13	1.98	0.46
1:Z:236:LEU:O	1:Z:236:LEU:HD12	2.16	0.46
1:c:345:PHE:CZ	1:c:649:LEU:HD12	2.51	0.46
1:c:397:LEU:HD23	1:c:649:LEU:HD13	1.98	0.46
1:d:298:TRP:HE1	1:d:728:ILE:HG22	1.81	0.46
1:e:701:GLN:H	1:f:703:THR:HG23	1.81	0.46
1:f:397:LEU:HD23	1:f:649:LEU:HD13	1.98	0.46
1:h:343:GLN:O	1:h:650:ILE:HA	2.16	0.46
1:h:703:THR:HG23	1:k:701:GLN:H	1.80	0.46
1:i:699:GLU:HG2	1:l:296:ARG:NE	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:298:TRP:HE1	1:l:728:ILE:HG22	1.81	0.46
1:l:528:THR:HG23	1:l:564:GLU:H	1.81	0.46
1:m:701:GLN:H	1:r:703:THR:HG23	1.81	0.46
1:n:387:GLN:OE1	1:r:708:LYS:HD2	2.15	0.46
1:o:298:TRP:HE1	1:o:728:ILE:HG22	1.81	0.46
1:p:699:GLU:HG2	1:s:296:ARG:NE	2.30	0.46
1:q:352:LEU:HG	1:q:400:PHE:HE2	1.81	0.46
1:r:352:LEU:HG	1:r:400:PHE:HE2	1.81	0.46
1:s:343:GLN:O	1:s:650:ILE:HA	2.16	0.46
1:t:343:GLN:O	1:t:650:ILE:HA	2.16	0.46
1:t:397:LEU:HD23	1:t:649:LEU:HD13	1.98	0.46
1:v:387:GLN:OE1	1:1:708:LYS:HD2	2.16	0.46
1:v:582:SER:HA	1:v:594:THR:HG22	1.97	0.46
1:w:352:LEU:HG	1:w:400:PHE:HE2	1.81	0.46
1:z:298:TRP:HE1	1:z:728:ILE:HG22	1.81	0.46
1:z:450:THR:HG21	1:1:503:PHE:CZ	2.51	0.46
1:1:528:THR:HG23	1:1:564:GLU:H	1.81	0.46
1:2:296:ARG:NE	1:4:699:GLU:HG2	2.30	0.46
1:2:677:THR:HG21	1:3:656:PRO:HD2	1.98	0.46
1:3:708:LYS:HD2	1:8:387:GLN:OE1	2.16	0.46
1:6:343:GLN:O	1:6:650:ILE:HA	2.16	0.46
1:6:345:PHE:CZ	1:6:649:LEU:HD12	2.51	0.46
1:7:345:PHE:CZ	1:7:649:LEU:HD12	2.51	0.46
1:7:701:GLN:H	1:8:703:THR:HG23	1.80	0.46
1:A:397:LEU:HD23	1:A:649:LEU:HD13	1.98	0.46
1:A:703:THR:HG23	1:F:701:GLN:H	1.81	0.46
1:B:503:PHE:CZ	1:L:450:THR:HG21	2.51	0.46
1:B:528:THR:HG23	1:B:564:GLU:H	1.81	0.46
1:B:653:THR:HG21	1:C:679:GLN:NE2	2.31	0.46
1:C:703:THR:HG23	1:L:701:GLN:H	1.81	0.46
1:E:278:SER:HB2	1:F:439:LEU:HD21	1.97	0.46
1:E:345:PHE:CZ	1:E:649:LEU:HD12	2.51	0.46
1:E:352:LEU:HG	1:E:400:PHE:HE2	1.81	0.46
1:F:352:LEU:HG	1:F:400:PHE:HE2	1.81	0.46
1:G:439:LEU:HD21	1:I:278:SER:HB2	1.98	0.46
1:H:278:SER:HB2	1:Y:439:LEU:HD21	1.97	0.46
1:I:298:TRP:HE1	1:I:728:ILE:HG22	1.81	0.46
1:J:677:THR:HG21	1:a:656:PRO:HD2	1.98	0.46
1:K:278:SER:HB2	1:8:439:LEU:HD21	1.98	0.46
1:K:343:GLN:O	1:K:650:ILE:HA	2.16	0.46
1:K:582:SER:HA	1:K:594:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:679:GLN:NE2	1:L:653:THR:HG21	2.31	0.46
1:L:240:VAL:CG1	1:L:686:TRP:HB2	2.47	0.46
1:L:298:TRP:HE1	1:L:728:ILE:HG22	1.81	0.46
1:L:343:GLN:O	1:L:650:ILE:HA	2.16	0.46
1:L:397:LEU:HD23	1:L:649:LEU:HD13	1.98	0.46
1:N:298:TRP:HE1	1:N:728:ILE:HG22	1.81	0.46
1:O:582:SER:HA	1:O:594:THR:HG22	1.97	0.46
1:O:653:THR:HG21	1:d:679:GLN:NE2	2.31	0.46
1:Q:240:VAL:CG1	1:Q:686:TRP:HB2	2.46	0.46
1:Q:397:LEU:HD23	1:Q:649:LEU:HD13	1.98	0.46
1:R:397:LEU:HD23	1:R:649:LEU:HD13	1.98	0.46
1:S:240:VAL:CG1	1:S:686:TRP:HB2	2.46	0.46
1:S:703:THR:HG23	1:T:701:GLN:H	1.81	0.46
1:S:708:LYS:HD2	1:d:387:GLN:OE1	2.15	0.46
1:T:656:PRO:HD2	1:i:677:THR:HG21	1.98	0.46
1:U:485:CYS:HG	1:U:578:TYR:HB2	1.80	0.46
1:U:708:LYS:HD2	1:e:387:GLN:OE1	2.16	0.46
1:X:278:SER:HB2	1:e:439:LEU:HD21	1.97	0.46
1:Y:343:GLN:O	1:Y:650:ILE:HA	2.16	0.46
1:b:397:LEU:HD23	1:b:649:LEU:HD13	1.98	0.46
1:b:703:THR:HG23	1:c:701:GLN:H	1.81	0.46
1:c:343:GLN:O	1:c:650:ILE:HA	2.16	0.46
1:c:387:GLN:OE1	1:s:708:LYS:HD2	2.16	0.46
1:c:439:LEU:HD21	1:o:278:SER:HB2	1.97	0.46
1:e:343:GLN:O	1:e:650:ILE:HA	2.16	0.46
1:f:278:SER:HB2	1:g:439:LEU:HD21	1.97	0.46
1:i:298:TRP:HE1	1:i:728:ILE:HG22	1.81	0.46
1:j:703:THR:HG23	1:w:701:GLN:H	1.81	0.46
1:l:582:SER:HA	1:l:594:THR:HG22	1.97	0.46
1:m:345:PHE:CZ	1:m:649:LEU:HD12	2.51	0.46
1:m:708:LYS:HD2	1:s:387:GLN:OE1	2.16	0.46
1:n:298:TRP:HE1	1:n:728:ILE:HG22	1.81	0.46
1:n:352:LEU:HG	1:n:400:PHE:HE2	1.81	0.46
1:o:343:GLN:O	1:o:650:ILE:HA	2.16	0.46
1:q:397:LEU:HD23	1:q:649:LEU:HD13	1.98	0.46
1:q:703:THR:HG23	1:x:701:GLN:H	1.81	0.46
1:r:240:VAL:CG1	1:r:686:TRP:HB2	2.46	0.46
1:t:439:LEU:HD21	1:u:278:SER:HB2	1.98	0.46
1:t:699:GLU:HG2	1:5:296:ARG:NE	2.30	0.46
1:t:701:GLN:H	1:5:703:THR:HG23	1.81	0.46
1:u:298:TRP:HE1	1:u:728:ILE:HG22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:532:ASP:OD1	1:v:384:ASN:ND2	2.43	0.46
1:v:397:LEU:HD23	1:v:649:LEU:HD13	1.98	0.46
1:v:677:THR:HG21	1:w:656:PRO:HD2	1.98	0.46
1:v:703:THR:HG23	1:y:701:GLN:H	1.81	0.46
1:x:240:VAL:CG1	1:x:686:TRP:HB2	2.47	0.46
1:y:528:THR:HG23	1:y:564:GLU:H	1.81	0.46
1:z:240:VAL:CG1	1:z:686:TRP:HB2	2.47	0.46
1:z:343:GLN:O	1:z:650:ILE:HA	2.16	0.46
1:z:397:LEU:HD23	1:z:649:LEU:HD13	1.98	0.46
1:4:582:SER:HA	1:4:594:THR:HG22	1.97	0.46
1:5:528:THR:HG23	1:5:564:GLU:H	1.81	0.46
1:6:450:THR:HG21	1:7:503:PHE:CZ	2.50	0.46
1:7:343:GLN:O	1:7:650:ILE:HA	2.16	0.46
1:7:352:LEU:HG	1:7:400:PHE:HE2	1.81	0.46
1:8:236:LEU:HD12	1:8:236:LEU:O	2.16	0.46
1:A:343:GLN:O	1:A:650:ILE:HA	2.16	0.45
1:B:352:LEU:HG	1:B:400:PHE:HE2	1.81	0.45
1:D:701:GLN:H	1:M:703:THR:HG23	1.80	0.45
1:F:240:VAL:CG1	1:F:686:TRP:HB2	2.46	0.45
1:F:653:THR:HG21	1:R:679:GLN:NE2	2.32	0.45
1:H:653:THR:HG21	1:Z:679:GLN:NE2	2.31	0.45
1:K:397:LEU:HD23	1:K:649:LEU:HD13	1.98	0.45
1:K:532:ASP:OD1	1:a:384:ASN:ND2	2.43	0.45
1:K:708:LYS:HD2	1:L:387:GLN:OE1	2.16	0.45
1:N:240:VAL:CG1	1:N:686:TRP:HB2	2.47	0.45
1:O:278:SER:HB2	1:n:439:LEU:HD21	1.97	0.45
1:P:373:MET:CE	1:Q:664:THR:H	2.29	0.45
1:P:528:THR:HG23	1:P:564:GLU:H	1.81	0.45
1:Q:352:LEU:HG	1:Q:400:PHE:HE2	1.81	0.45
1:Q:528:THR:HG23	1:Q:564:GLU:H	1.81	0.45
1:Q:701:GLN:H	1:R:703:THR:HG23	1.81	0.45
1:T:345:PHE:CZ	1:T:649:LEU:HD12	2.51	0.45
1:U:345:PHE:CZ	1:U:649:LEU:HD12	2.51	0.45
1:X:343:GLN:O	1:X:650:ILE:HA	2.16	0.45
1:X:352:LEU:HG	1:X:400:PHE:HE2	1.81	0.45
1:Z:439:LEU:HD21	1:4:278:SER:HB2	1.98	0.45
1:b:352:LEU:HG	1:b:400:PHE:HE2	1.81	0.45
1:c:278:SER:HB2	1:p:439:LEU:HD21	1.97	0.45
1:d:439:LEU:HD21	1:l:278:SER:HB2	1.97	0.45
1:f:352:LEU:HG	1:f:400:PHE:HE2	1.81	0.45
1:f:656:PRO:HD2	1:z:677:THR:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:679:GLN:NE2	1:1:653:THR:HG21	2.31	0.45
1:i:240:VAL:CG1	1:i:686:TRP:HB2	2.46	0.45
1:j:352:LEU:HG	1:j:400:PHE:HE2	1.81	0.45
1:j:677:THR:HG21	1:x:656:PRO:HD2	1.98	0.45
1:k:343:GLN:O	1:k:650:ILE:HA	2.16	0.45
1:k:653:THR:HG21	1:w:679:GLN:NE2	2.31	0.45
1:l:653:THR:HG21	1:n:679:GLN:NE2	2.31	0.45
1:o:701:GLN:H	1:6:703:THR:HG23	1.81	0.45
1:p:387:GLN:OE1	1:6:708:LYS:HD2	2.16	0.45
1:p:677:THR:HG21	1:q:656:PRO:HD2	1.98	0.45
1:s:298:TRP:HE1	1:s:728:ILE:HG22	1.81	0.45
1:u:296:ARG:NE	1:1:699:GLU:HG2	2.30	0.45
1:u:653:THR:HG21	1:5:679:GLN:NE2	2.31	0.45
1:w:278:SER:HB2	1:y:439:LEU:HD21	1.97	0.45
1:w:582:SER:HA	1:w:594:THR:HG22	1.97	0.45
1:x:528:THR:HG23	1:x:564:GLU:H	1.81	0.45
1:y:352:LEU:HG	1:y:400:PHE:HE2	1.81	0.45
1:z:278:SER:HB2	1:2:439:LEU:HD21	1.97	0.45
1:z:387:GLN:OE1	1:4:708:LYS:HD2	2.16	0.45
1:z:653:THR:HG21	1:4:679:GLN:NE2	2.31	0.45
1:3:485:CYS:HG	1:3:578:TYR:HB2	1.80	0.45
1:3:677:THR:HG21	1:8:656:PRO:HD2	1.98	0.45
1:3:679:GLN:NE2	1:8:653:THR:HG21	2.31	0.45
1:4:343:GLN:O	1:4:650:ILE:HA	2.16	0.45
1:5:278:SER:HB2	1:7:439:LEU:HD21	1.97	0.45
1:5:653:THR:HG21	1:8:679:GLN:NE2	2.31	0.45
1:A:298:TRP:HE1	1:A:728:ILE:HG22	1.81	0.45
1:A:384:ASN:ND2	1:I:532:ASP:OD1	2.42	0.45
1:C:236:LEU:HD12	1:C:236:LEU:O	2.16	0.45
1:C:439:LEU:HD21	1:b:278:SER:HB2	1.97	0.45
1:D:343:GLN:O	1:D:650:ILE:HA	2.16	0.45
1:D:582:SER:HA	1:D:594:THR:HG22	1.97	0.45
1:D:699:GLU:HG2	1:M:296:ARG:NE	2.30	0.45
1:E:240:VAL:CG1	1:E:686:TRP:HB2	2.47	0.45
1:F:345:PHE:CZ	1:F:649:LEU:HD12	2.51	0.45
1:G:582:SER:HA	1:G:594:THR:HG22	1.97	0.45
1:G:701:GLN:H	1:H:703:THR:HG23	1.81	0.45
1:H:345:PHE:CZ	1:H:649:LEU:HD12	2.51	0.45
1:H:679:GLN:NE2	1:I:653:THR:HG21	2.31	0.45
1:J:439:LEU:HD21	1:L:278:SER:HB2	1.97	0.45
1:L:677:THR:HG21	1:b:656:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:701:GLN:H	1:O:703:THR:HG23	1.80	0.45
1:P:352:LEU:HG	1:P:400:PHE:HE2	1.81	0.45
1:R:656:PRO:HD2	1:V:677:THR:HG21	1.98	0.45
1:T:278:SER:HB2	1:l:439:LEU:HD21	1.98	0.45
1:T:708:LYS:HD2	1:U:387:GLN:OE1	2.16	0.45
1:U:298:TRP:HE1	1:U:728:ILE:HG22	1.81	0.45
1:U:397:LEU:HD23	1:U:649:LEU:HD13	1.98	0.45
1:U:679:GLN:NE2	1:e:653:THR:HG21	2.31	0.45
1:V:653:THR:HG21	1:W:679:GLN:NE2	2.31	0.45
1:W:240:VAL:CG1	1:W:686:TRP:HB2	2.47	0.45
1:W:397:LEU:HD23	1:W:649:LEU:HD13	1.98	0.45
1:W:439:LEU:HD21	1:Y:278:SER:HB2	1.98	0.45
1:Z:653:THR:HG21	1:a:679:GLN:NE2	2.31	0.45
1:Z:656:PRO:HD2	1:a:677:THR:HG21	1.98	0.45
1:b:240:VAL:CG1	1:b:686:TRP:HB2	2.46	0.45
1:b:708:LYS:HD2	1:o:387:GLN:OE1	2.16	0.45
1:c:450:THR:HG21	1:o:503:PHE:CZ	2.51	0.45
1:f:240:VAL:CG1	1:f:686:TRP:HB2	2.46	0.45
1:h:296:ARG:NE	1:k:699:GLU:HG2	2.31	0.45
1:j:236:LEU:HD12	1:j:236:LEU:O	2.16	0.45
1:j:528:THR:HG23	1:j:564:GLU:H	1.81	0.45
1:j:656:PRO:HD2	1:l:677:THR:HG21	1.97	0.45
1:k:397:LEU:HD23	1:k:649:LEU:HD13	1.98	0.45
1:n:343:GLN:O	1:n:650:ILE:HA	2.16	0.45
1:o:352:LEU:HG	1:o:400:PHE:HE2	1.81	0.45
1:p:298:TRP:HE1	1:p:728:ILE:HG22	1.81	0.45
1:p:703:THR:HG23	1:s:701:GLN:H	1.81	0.45
1:q:679:GLN:NE2	1:y:653:THR:HG21	2.32	0.45
1:q:701:GLN:H	1:x:703:THR:HG23	1.81	0.45
1:s:345:PHE:CZ	1:s:649:LEU:HD12	2.51	0.45
1:t:503:PHE:CZ	1:v:450:THR:HG21	2.51	0.45
1:u:240:VAL:CG1	1:u:686:TRP:HB2	2.47	0.45
1:v:236:LEU:HD12	1:v:236:LEU:O	2.16	0.45
1:v:298:TRP:HE1	1:v:728:ILE:HG22	1.81	0.45
1:v:343:GLN:O	1:v:650:ILE:HA	2.16	0.45
1:w:240:VAL:CG1	1:w:686:TRP:HB2	2.46	0.45
1:w:532:ASP:OD1	1:x:384:ASN:ND2	2.43	0.45
1:x:397:LEU:HD23	1:x:649:LEU:HD13	1.98	0.45
1:x:450:THR:HG21	1:y:503:PHE:CZ	2.51	0.45
1:x:582:SER:HA	1:x:594:THR:HG22	1.97	0.45
1:y:240:VAL:CG1	1:y:686:TRP:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:345:PHE:CZ	1:y:649:LEU:HD12	2.51	0.45
1:1:352:LEU:HG	1:1:400:PHE:HE2	1.81	0.45
1:2:528:THR:HG23	1:2:564:GLU:H	1.80	0.45
1:4:397:LEU:HD23	1:4:649:LEU:HD13	1.98	0.45
1:5:530:LYS:HG2	1:5:531:ASP:N	2.23	0.45
1:6:397:LEU:HD23	1:6:649:LEU:HD13	1.98	0.45
1:6:439:LEU:HD21	1:7:278:SER:HB2	1.98	0.45
1:A:236:LEU:HD12	1:A:236:LEU:O	2.16	0.45
1:A:677:THR:HG21	1:E:656:PRO:HD2	1.98	0.45
1:B:450:THR:HG21	1:J:503:PHE:CZ	2.51	0.45
1:B:699:GLU:HG2	1:I:296:ARG:NE	2.30	0.45
1:C:345:PHE:CZ	1:C:649:LEU:HD12	2.51	0.45
1:D:345:PHE:CZ	1:D:649:LEU:HD12	2.51	0.45
1:D:397:LEU:HD23	1:D:649:LEU:HD13	1.98	0.45
1:E:532:ASP:OD1	1:Q:384:ASN:ND2	2.43	0.45
1:F:503:PHE:CZ	1:Q:450:THR:HG21	2.51	0.45
1:F:708:LYS:HD2	1:G:387:GLN:OE1	2.16	0.45
1:H:352:LEU:HG	1:H:400:PHE:HE2	1.81	0.45
1:I:240:VAL:CG1	1:I:686:TRP:HB2	2.47	0.45
1:I:397:LEU:HD23	1:I:649:LEU:HD13	1.98	0.45
1:N:343:GLN:O	1:N:650:ILE:HA	2.16	0.45
1:O:240:VAL:CG1	1:O:686:TRP:HB2	2.46	0.45
1:P:298:TRP:HE1	1:P:728:ILE:HG22	1.81	0.45
1:P:343:GLN:O	1:P:650:ILE:HA	2.16	0.45
1:Q:345:PHE:CZ	1:Q:649:LEU:HD12	2.51	0.45
1:Q:703:THR:HG23	1:R:701:GLN:H	1.81	0.45
1:R:528:THR:HG23	1:R:564:GLU:H	1.81	0.45
1:U:240:VAL:CG1	1:U:686:TRP:HB2	2.47	0.45
1:U:701:GLN:H	1:V:703:THR:HG23	1.81	0.45
1:V:387:GLN:OE1	1:W:708:LYS:HD2	2.16	0.45
1:V:439:LEU:HD21	1:e:278:SER:HB2	1.97	0.45
1:W:703:THR:HG23	1:X:701:GLN:H	1.81	0.45
1:X:387:GLN:OE1	1:f:708:LYS:HD2	2.16	0.45
1:X:503:PHE:CZ	1:e:450:THR:HG21	2.51	0.45
1:X:677:THR:HG21	1:Y:656:PRO:HD2	1.97	0.45
1:Y:240:VAL:CG1	1:Y:686:TRP:HB2	2.47	0.45
1:Y:298:TRP:HE1	1:Y:728:ILE:HG22	1.81	0.45
1:a:352:LEU:HG	1:a:400:PHE:HE2	1.81	0.45
1:c:298:TRP:HE1	1:c:728:ILE:HG22	1.81	0.45
1:c:653:THR:HG21	1:s:679:GLN:NE2	2.32	0.45
1:d:343:GLN:O	1:d:650:ILE:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:352:LEU:HG	1:d:400:PHE:HE2	1.81	0.45
1:e:298:TRP:HE1	1:e:728:ILE:HG22	1.81	0.45
1:g:236:LEU:HD12	1:g:236:LEU:O	2.16	0.45
1:h:528:THR:HG23	1:h:564:GLU:H	1.81	0.45
1:h:708:LYS:HD2	1:i:387:GLN:OE1	2.16	0.45
1:i:343:GLN:O	1:i:650:ILE:HA	2.16	0.45
1:j:298:TRP:HE1	1:j:728:ILE:HG22	1.81	0.45
1:k:345:PHE:CZ	1:k:649:LEU:HD12	2.51	0.45
1:l:240:VAL:CG1	1:l:686:TRP:HB2	2.46	0.45
1:o:708:LYS:HD2	1:7:387:GLN:OE1	2.17	0.45
1:p:653:THR:HG21	1:6:679:GLN:NE2	2.31	0.45
1:q:528:THR:HG23	1:q:564:GLU:H	1.81	0.45
1:r:528:THR:HG23	1:r:564:GLU:H	1.80	0.45
1:s:240:VAL:CG1	1:s:686:TRP:HB2	2.47	0.45
1:s:397:LEU:HD23	1:s:649:LEU:HD13	1.98	0.45
1:w:345:PHE:CZ	1:w:649:LEU:HD12	2.51	0.45
1:x:345:PHE:CZ	1:x:649:LEU:HD12	2.51	0.45
1:z:384:ASN:ND2	1:2:532:ASP:OD1	2.43	0.45
1:1:236:LEU:HD12	1:1:236:LEU:O	2.16	0.45
1:1:345:PHE:CZ	1:1:649:LEU:HD12	2.51	0.45
1:1:450:THR:HG21	1:2:503:PHE:CZ	2.51	0.45
1:5:345:PHE:CZ	1:5:649:LEU:HD12	2.51	0.45
1:6:240:VAL:CG1	1:6:686:TRP:HB2	2.47	0.45
1:7:240:VAL:CG1	1:7:686:TRP:HB2	2.47	0.45
1:A:708:LYS:HD2	1:E:387:GLN:OE1	2.16	0.45
1:B:236:LEU:O	1:B:236:LEU:HD12	2.16	0.45
1:B:345:PHE:CZ	1:B:649:LEU:HD12	2.51	0.45
1:D:236:LEU:HD12	1:D:236:LEU:O	2.16	0.45
1:D:703:THR:HG23	1:M:701:GLN:H	1.81	0.45
1:F:343:GLN:O	1:F:650:ILE:HA	2.16	0.45
1:H:556:LEU:O	1:H:559:VAL:HG22	2.17	0.45
1:J:240:VAL:CG1	1:J:686:TRP:HB2	2.46	0.45
1:J:528:THR:HG23	1:J:564:GLU:H	1.81	0.45
1:J:701:GLN:H	1:K:703:THR:HG23	1.80	0.45
1:K:240:VAL:CG1	1:K:686:TRP:HB2	2.47	0.45
1:L:345:PHE:CZ	1:L:649:LEU:HD12	2.51	0.45
1:M:528:THR:HG23	1:M:564:GLU:H	1.81	0.45
1:O:439:LEU:HD21	1:m:278:SER:HB2	1.98	0.45
1:P:236:LEU:HD12	1:P:236:LEU:O	2.16	0.45
1:Q:582:SER:HA	1:Q:594:THR:HG22	1.97	0.45
1:Q:708:LYS:HD2	1:S:387:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:298:TRP:HE1	1:T:728:ILE:HG22	1.81	0.45
1:U:703:THR:HG23	1:V:701:GLN:H	1.81	0.45
1:V:298:TRP:HE1	1:V:728:ILE:HG22	1.81	0.45
1:X:240:VAL:CG1	1:X:686:TRP:HB2	2.46	0.45
1:X:708:LYS:HD2	1:Y:387:GLN:OE1	2.17	0.45
1:b:343:GLN:O	1:b:650:ILE:HA	2.16	0.45
1:b:528:THR:HG23	1:b:564:GLU:H	1.81	0.45
1:f:343:GLN:O	1:f:650:ILE:HA	2.16	0.45
1:f:439:LEU:HD21	1:h:278:SER:HB2	1.97	0.45
1:i:345:PHE:CZ	1:i:649:LEU:HD12	2.51	0.45
1:j:343:GLN:O	1:j:650:ILE:HA	2.16	0.45
1:j:387:GLN:OE1	1:l:708:LYS:HD2	2.17	0.45
1:j:701:GLN:H	1:w:703:THR:HG23	1.80	0.45
1:k:236:LEU:HD12	1:k:236:LEU:O	2.16	0.45
1:m:450:THR:HG21	1:n:503:PHE:CZ	2.51	0.45
1:m:679:GLN:NE2	1:s:653:THR:HG21	2.31	0.45
1:o:240:VAL:CG1	1:o:686:TRP:HB2	2.46	0.45
1:p:352:LEU:HG	1:p:400:PHE:HE2	1.81	0.45
1:q:439:LEU:HD21	1:r:278:SER:HB2	1.97	0.45
1:s:352:LEU:HG	1:s:400:PHE:HE2	1.81	0.45
1:t:387:GLN:OE1	1:y:708:LYS:HD2	2.16	0.45
1:t:582:SER:HA	1:t:594:THR:HG22	1.97	0.45
1:u:345:PHE:CZ	1:u:649:LEU:HD12	2.51	0.45
1:u:397:LEU:HD23	1:u:649:LEU:HD13	1.98	0.45
1:w:298:TRP:HE1	1:w:728:ILE:HG22	1.81	0.45
1:y:343:GLN:O	1:y:650:ILE:HA	2.16	0.45
1:2:679:GLN:NE2	1:3:653:THR:HG21	2.31	0.45
1:3:352:LEU:HG	1:3:400:PHE:HE2	1.81	0.45
1:4:240:VAL:CG1	1:4:686:TRP:HB2	2.47	0.45
1:4:352:LEU:HG	1:4:400:PHE:HE2	1.81	0.45
1:5:352:LEU:HG	1:5:400:PHE:HE2	1.81	0.45
1:5:556:LEU:O	1:5:559:VAL:HG22	2.17	0.45
1:7:298:TRP:HE1	1:7:728:ILE:HG22	1.81	0.45
1:B:530:LYS:HG2	1:B:531:ASP:N	2.23	0.45
1:E:298:TRP:HE1	1:E:728:ILE:HG22	1.81	0.45
1:F:278:SER:HB2	1:Q:439:LEU:HD21	1.97	0.45
1:F:387:GLN:OE1	1:R:708:LYS:HD2	2.16	0.45
1:F:556:LEU:O	1:F:559:VAL:HG22	2.17	0.45
1:I:345:PHE:CZ	1:I:649:LEU:HD12	2.51	0.45
1:J:679:GLN:NE2	1:a:653:THR:HG21	2.31	0.45
1:K:352:LEU:HG	1:K:400:PHE:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:653:THR:HG21	1:c:679:GLN:NE2	2.31	0.45
1:N:345:PHE:CZ	1:N:649:LEU:HD12	2.51	0.45
1:N:556:LEU:O	1:N:559:VAL:HG22	2.17	0.45
1:O:352:LEU:HG	1:O:400:PHE:HE2	1.81	0.45
1:S:528:THR:HG23	1:S:564:GLU:H	1.81	0.45
1:T:439:LEU:HD21	1:d:278:SER:HB2	1.97	0.45
1:T:528:THR:HG23	1:T:564:GLU:H	1.81	0.45
1:T:582:SER:HA	1:T:594:THR:HG22	1.97	0.45
1:T:679:GLN:NE2	1:U:653:THR:HG21	2.31	0.45
1:U:352:LEU:HG	1:U:400:PHE:HE2	1.81	0.45
1:V:352:LEU:HG	1:V:400:PHE:HE2	1.81	0.45
1:W:433:ASP:N	1:W:433:ASP:OD1	2.50	0.45
1:X:679:GLN:NE2	1:Y:653:THR:HG21	2.31	0.45
1:a:240:VAL:CG1	1:a:686:TRP:HB2	2.46	0.45
1:f:387:GLN:OE1	1:z:708:LYS:HD2	2.16	0.45
1:g:345:PHE:CZ	1:g:649:LEU:HD12	2.51	0.45
1:h:298:TRP:HE1	1:h:728:ILE:HG22	1.81	0.45
1:h:701:GLN:H	1:k:703:THR:HG23	1.81	0.45
1:k:387:GLN:OE1	1:w:708:LYS:HD2	2.16	0.45
1:k:582:SER:HA	1:k:594:THR:HG22	1.97	0.45
1:m:439:LEU:HD21	1:n:278:SER:HB2	1.97	0.45
1:m:528:THR:HG23	1:m:564:GLU:H	1.81	0.45
1:o:556:LEU:O	1:o:559:VAL:HG22	2.17	0.45
1:o:677:THR:HG21	1:7:656:PRO:HD2	1.97	0.45
1:p:701:GLN:H	1:s:703:THR:HG23	1.81	0.45
1:q:708:LYS:HD2	1:y:387:GLN:OE1	2.16	0.45
1:t:296:ARG:NE	1:5:699:GLU:HG2	2.30	0.45
1:x:439:LEU:HD21	1:y:278:SER:HB2	1.97	0.45
1:y:298:TRP:HE1	1:y:728:ILE:HG22	1.81	0.45
1:y:556:LEU:O	1:y:559:VAL:HG22	2.17	0.45
1:z:345:PHE:CZ	1:z:649:LEU:HD12	2.51	0.45
1:2:240:VAL:CG1	1:2:686:TRP:HB2	2.46	0.45
1:2:701:GLN:H	1:4:703:THR:HG23	1.81	0.45
1:2:703:THR:HG23	1:4:701:GLN:H	1.81	0.45
1:8:240:VAL:CG1	1:8:686:TRP:HB2	2.47	0.45
1:B:439:LEU:HD21	1:J:278:SER:HB2	1.97	0.45
1:C:298:TRP:HE1	1:C:728:ILE:HG22	1.81	0.45
1:D:298:TRP:HE1	1:D:728:ILE:HG22	1.81	0.45
1:E:397:LEU:HD23	1:E:649:LEU:HD13	1.98	0.45
1:F:656:PRO:HD2	1:R:677:THR:HG21	1.98	0.45
1:G:708:LYS:HD2	1:W:387:GLN:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:439:LEU:HD21	1:W:278:SER:HB2	1.97	0.45
1:I:528:THR:HG23	1:I:564:GLU:H	1.80	0.45
1:J:345:PHE:CZ	1:J:649:LEU:HD12	2.51	0.45
1:L:236:LEU:HD12	1:L:236:LEU:O	2.16	0.45
1:L:708:LYS:HD2	1:b:387:GLN:OE1	2.16	0.45
1:M:278:SER:HB2	1:b:439:LEU:HD21	1.97	0.45
1:M:298:TRP:HE1	1:M:728:ILE:HG22	1.81	0.45
1:P:582:SER:HA	1:P:594:THR:HG22	1.97	0.45
1:R:298:TRP:HE1	1:R:728:ILE:HG22	1.81	0.45
1:R:439:LEU:HD21	1:S:278:SER:HB2	1.97	0.45
1:R:556:LEU:O	1:R:559:VAL:HG22	2.17	0.45
1:S:236:LEU:HD12	1:S:236:LEU:O	2.16	0.45
1:T:450:THR:HG21	1:d:503:PHE:CZ	2.51	0.45
1:W:582:SER:HA	1:W:594:THR:HG22	1.97	0.45
1:X:556:LEU:O	1:X:559:VAL:HG22	2.17	0.45
1:Z:240:VAL:CG1	1:Z:686:TRP:HB2	2.47	0.45
1:Z:343:GLN:O	1:Z:650:ILE:HA	2.16	0.45
1:Z:384:ASN:ND2	1:3:532:ASP:OD1	2.43	0.45
1:a:703:THR:HG23	1:3:701:GLN:H	1.81	0.45
1:d:240:VAL:CG1	1:d:686:TRP:HB2	2.46	0.45
1:e:679:GLN:NE2	1:h:653:THR:HG21	2.31	0.45
1:f:528:THR:HG23	1:f:564:GLU:H	1.81	0.45
1:i:352:LEU:HG	1:i:400:PHE:HE2	1.81	0.45
1:i:556:LEU:O	1:i:559:VAL:HG22	2.17	0.45
1:j:345:PHE:CZ	1:j:649:LEU:HD12	2.51	0.45
1:m:582:SER:HA	1:m:594:THR:HG22	1.97	0.45
1:m:703:THR:HG23	1:r:701:GLN:H	1.81	0.45
1:n:230:HIS:O	1:n:245:THR:OG1	2.19	0.45
1:o:679:GLN:NE2	1:7:653:THR:HG21	2.31	0.45
1:p:240:VAL:CG1	1:p:686:TRP:HB2	2.47	0.45
1:q:240:VAL:CG1	1:q:686:TRP:HB2	2.47	0.45
1:q:298:TRP:HE1	1:q:728:ILE:HG22	1.81	0.45
1:q:556:LEU:O	1:q:559:VAL:HG22	2.17	0.45
1:q:677:THR:HG21	1:y:656:PRO:HD2	1.98	0.45
1:r:236:LEU:HD12	1:r:236:LEU:O	2.16	0.45
1:r:387:GLN:OE1	1:x:708:LYS:HD2	2.16	0.45
1:r:556:LEU:O	1:r:559:VAL:HG22	2.17	0.45
1:t:345:PHE:CZ	1:t:649:LEU:HD12	2.51	0.45
1:t:532:ASP:OD1	1:u:384:ASN:ND2	2.43	0.45
1:t:556:LEU:O	1:t:559:VAL:HG22	2.17	0.45
1:u:582:SER:HA	1:u:594:THR:HG22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:240:VAL:CG1	1:v:686:TRP:HB2	2.46	0.45
1:2:556:LEU:O	1:2:559:VAL:HG22	2.17	0.45
1:3:240:VAL:CG1	1:3:686:TRP:HB2	2.46	0.45
1:5:439:LEU:HD21	1:6:278:SER:HB2	1.97	0.45
1:6:556:LEU:O	1:6:559:VAL:HG22	2.17	0.45
1:8:528:THR:HG23	1:8:564:GLU:H	1.81	0.45
1:8:556:LEU:O	1:8:559:VAL:HG22	2.17	0.45
1:A:240:VAL:CG1	1:A:686:TRP:HB2	2.46	0.45
1:C:240:VAL:CG1	1:C:686:TRP:HB2	2.46	0.45
1:E:556:LEU:O	1:E:559:VAL:HG22	2.17	0.45
1:F:298:TRP:HE1	1:F:728:ILE:HG22	1.81	0.45
1:F:679:GLN:NE2	1:G:653:THR:HG21	2.31	0.45
1:G:296:ARG:NE	1:H:699:GLU:HG2	2.30	0.45
1:G:345:PHE:CZ	1:G:649:LEU:HD12	2.51	0.45
1:J:556:LEU:O	1:J:559:VAL:HG22	2.17	0.45
1:J:703:THR:HG23	1:K:701:GLN:H	1.81	0.45
1:N:352:LEU:HG	1:N:400:PHE:HE2	1.81	0.45
1:O:556:LEU:O	1:O:559:VAL:HG22	2.17	0.45
1:P:345:PHE:CZ	1:P:649:LEU:HD12	2.51	0.45
1:R:240:VAL:CG1	1:R:686:TRP:HB2	2.46	0.45
1:R:503:PHE:CZ	1:U:450:THR:HG21	2.51	0.45
1:S:556:LEU:O	1:S:559:VAL:HG22	2.17	0.45
1:T:240:VAL:CG1	1:T:686:TRP:HB2	2.47	0.45
1:V:240:VAL:CG1	1:V:686:TRP:HB2	2.47	0.45
1:W:556:LEU:O	1:W:559:VAL:HG22	2.17	0.45
1:Z:556:LEU:O	1:Z:559:VAL:HG22	2.17	0.45
1:a:532:ASP:OD1	1:8:384:ASN:ND2	2.43	0.45
1:a:701:GLN:H	1:3:703:THR:HG23	1.81	0.45
1:i:278:SER:HB2	1:k:439:LEU:HD21	1.99	0.45
1:j:582:SER:HA	1:j:594:THR:HG22	1.97	0.45
1:l:352:LEU:HG	1:l:400:PHE:HE2	1.81	0.45
1:l:556:LEU:O	1:l:559:VAL:HG22	2.17	0.45
1:m:240:VAL:CG1	1:m:686:TRP:HB2	2.46	0.45
1:m:298:TRP:HE1	1:m:728:ILE:HG22	1.81	0.45
1:n:240:VAL:CG1	1:n:686:TRP:HB2	2.46	0.45
1:p:343:GLN:O	1:p:650:ILE:HA	2.16	0.45
1:r:656:PRO:HD2	1:x:677:THR:HG21	1.98	0.45
1:t:708:LYS:HD2	1:6:387:GLN:OE1	2.17	0.45
1:v:679:GLN:NE2	1:w:653:THR:HG21	2.31	0.45
1:w:556:LEU:O	1:w:559:VAL:HG22	2.17	0.45
1:z:236:LEU:HD12	1:z:236:LEU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:345:PHE:CZ	1:3:649:LEU:HD12	2.51	0.45
1:6:352:LEU:HG	1:6:400:PHE:HE2	1.81	0.45
1:6:582:SER:HA	1:6:594:THR:HG22	1.97	0.45
1:8:343:GLN:O	1:8:650:ILE:HA	2.16	0.45
1:A:450:THR:HG21	1:G:503:PHE:CZ	2.51	0.45
1:A:556:LEU:O	1:A:559:VAL:HG22	2.17	0.45
1:B:701:GLN:H	1:I:703:THR:HG23	1.81	0.45
1:D:240:VAL:CG1	1:D:686:TRP:HB2	2.47	0.45
1:G:532:ASP:OD1	1:I:384:ASN:ND2	2.43	0.45
1:G:556:LEU:O	1:G:559:VAL:HG22	2.17	0.45
1:I:679:GLN:NE2	1:J:653:THR:HG21	2.31	0.45
1:L:679:GLN:NE2	1:b:653:THR:HG21	2.32	0.45
1:M:352:LEU:HG	1:M:400:PHE:HE2	1.81	0.45
1:M:556:LEU:O	1:M:559:VAL:HG22	2.17	0.45
1:N:679:GLN:NE2	1:m:653:THR:HG21	2.31	0.45
1:S:345:PHE:CZ	1:S:649:LEU:HD12	2.51	0.45
1:S:701:GLN:H	1:T:703:THR:HG23	1.81	0.45
1:T:343:GLN:O	1:T:650:ILE:HA	2.16	0.45
1:T:397:LEU:HD23	1:T:649:LEU:HD13	1.98	0.45
1:X:445:TYR:HE1	1:X:467:GLN:HG3	1.82	0.45
1:X:656:PRO:HD2	1:f:677:THR:HG21	1.98	0.45
1:Z:433:ASP:N	1:Z:433:ASP:OD1	2.50	0.45
1:Z:528:THR:HG23	1:Z:564:GLU:H	1.81	0.45
1:a:345:PHE:CZ	1:a:649:LEU:HD12	2.51	0.45
1:e:528:THR:HG23	1:e:564:GLU:H	1.81	0.45
1:g:240:VAL:CG1	1:g:686:TRP:HB2	2.47	0.45
1:g:298:TRP:HE1	1:g:728:ILE:HG22	1.81	0.45
1:h:352:LEU:HG	1:h:400:PHE:HE2	1.81	0.45
1:h:556:LEU:O	1:h:559:VAL:HG22	2.17	0.45
1:j:240:VAL:CG1	1:j:686:TRP:HB2	2.47	0.45
1:k:240:VAL:CG1	1:k:686:TRP:HB2	2.47	0.45
1:m:296:ARG:NE	1:r:699:GLU:HG2	2.31	0.45
1:m:343:GLN:O	1:m:650:ILE:HA	2.16	0.45
1:m:397:LEU:HD23	1:m:649:LEU:HD13	1.98	0.45
1:o:445:TYR:HE1	1:o:467:GLN:HG3	1.82	0.45
1:p:433:ASP:OD1	1:p:433:ASP:N	2.50	0.45
1:r:345:PHE:CZ	1:r:649:LEU:HD12	2.51	0.45
1:u:528:THR:HG23	1:u:564:GLU:H	1.80	0.45
1:v:556:LEU:O	1:v:559:VAL:HG22	2.17	0.45
1:1:240:VAL:CG1	1:1:686:TRP:HB2	2.47	0.45
1:1:439:LEU:HD21	1:2:278:SER:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:433:ASP:OD1	1:8:433:ASP:N	2.50	0.45
1:A:679:GLN:NE2	1:E:653:THR:HG21	2.31	0.45
1:B:240:VAL:CG1	1:B:686:TRP:HB2	2.47	0.45
1:C:387:GLN:OE1	1:D:708:LYS:HD2	2.16	0.45
1:C:556:LEU:O	1:C:559:VAL:HG22	2.17	0.45
1:F:397:LEU:HD23	1:F:649:LEU:HD13	1.98	0.45
1:G:679:GLN:NE2	1:W:653:THR:HG21	2.31	0.45
1:H:503:PHE:CZ	1:Y:450:THR:HG21	2.51	0.45
1:O:677:THR:HG21	1:P:656:PRO:HD2	1.99	0.45
1:P:240:VAL:CG1	1:P:686:TRP:HB2	2.47	0.45
1:Q:298:TRP:HE1	1:Q:728:ILE:HG22	1.81	0.45
1:Q:677:THR:HG21	1:S:656:PRO:HD2	1.98	0.45
1:S:343:GLN:O	1:S:650:ILE:HA	2.16	0.45
1:S:699:GLU:HG2	1:T:296:ARG:NE	2.31	0.45
1:V:343:GLN:O	1:V:650:ILE:HA	2.16	0.45
1:V:433:ASP:OD1	1:V:433:ASP:N	2.50	0.45
1:W:352:LEU:HG	1:W:400:PHE:HE2	1.81	0.45
1:X:653:THR:HG21	1:f:679:GLN:NE2	2.31	0.45
1:Z:397:LEU:HD23	1:Z:649:LEU:HD13	1.98	0.45
1:b:679:GLN:NE2	1:o:653:THR:HG21	2.31	0.45
1:f:653:THR:HG21	1:z:679:GLN:NE2	2.32	0.45
1:g:556:LEU:O	1:g:559:VAL:HG22	2.17	0.45
1:j:653:THR:HG21	1:l:679:GLN:NE2	2.31	0.45
1:k:298:TRP:HE1	1:k:728:ILE:HG22	1.81	0.45
1:n:345:PHE:CZ	1:n:649:LEU:HD12	2.51	0.45
1:n:653:THR:HG21	1:r:679:GLN:NE2	2.31	0.45
1:q:503:PHE:CZ	1:s:450:THR:HG21	2.51	0.45
1:t:653:THR:HG21	1:y:679:GLN:NE2	2.31	0.45
1:t:679:GLN:NE2	1:6:653:THR:HG21	2.31	0.45
1:u:703:THR:HG23	1:1:701:GLN:H	1.81	0.45
1:w:397:LEU:HD23	1:w:649:LEU:HD13	1.98	0.45
1:x:556:LEU:O	1:x:559:VAL:HG22	2.17	0.45
1:y:397:LEU:HD23	1:y:649:LEU:HD13	1.98	0.45
1:2:345:PHE:CZ	1:2:649:LEU:HD12	2.51	0.45
1:8:397:LEU:HD23	1:8:649:LEU:HD13	1.98	0.45
1:D:556:LEU:O	1:D:559:VAL:HG22	2.17	0.45
1:G:240:VAL:CG1	1:G:686:TRP:HB2	2.46	0.45
1:I:556:LEU:O	1:I:559:VAL:HG22	2.17	0.45
1:I:582:SER:HA	1:I:594:THR:HG22	1.97	0.45
1:M:445:TYR:HE1	1:M:467:GLN:HG3	1.82	0.45
1:N:532:ASP:OD1	1:P:384:ASN:ND2	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:384:ASN:ND2	1:n:532:ASP:OD1	2.42	0.45
1:P:679:GLN:NE2	1:Q:653:THR:HG21	2.32	0.45
1:V:345:PHE:CZ	1:V:649:LEU:HD12	2.51	0.45
1:a:298:TRP:HE1	1:a:728:ILE:HG22	1.81	0.45
1:a:445:TYR:HE1	1:a:467:GLN:HG3	1.82	0.45
1:b:345:PHE:CZ	1:b:649:LEU:HD12	2.51	0.45
1:b:556:LEU:O	1:b:559:VAL:HG22	2.17	0.45
1:b:677:THR:HG21	1:o:656:PRO:HD2	1.98	0.45
1:c:528:THR:HG23	1:c:564:GLU:H	1.81	0.45
1:d:445:TYR:HE1	1:d:467:GLN:HG3	1.82	0.45
1:f:345:PHE:CZ	1:f:649:LEU:HD12	2.51	0.45
1:k:556:LEU:O	1:k:559:VAL:HG22	2.17	0.45
1:m:445:TYR:HE1	1:m:467:GLN:HG3	1.82	0.45
1:n:445:TYR:HE1	1:n:467:GLN:HG3	1.82	0.45
1:p:345:PHE:CZ	1:p:649:LEU:HD12	2.51	0.45
1:r:343:GLN:O	1:r:650:ILE:HA	2.16	0.45
1:u:556:LEU:O	1:u:559:VAL:HG22	2.17	0.45
1:v:708:LYS:HD2	1:w:387:GLN:OE1	2.16	0.45
1:x:298:TRP:HE1	1:x:728:ILE:HG22	1.81	0.45
1:z:656:PRO:HD2	1:4:677:THR:HG21	1.98	0.45
1:1:556:LEU:O	1:1:559:VAL:HG22	2.17	0.45
1:2:397:LEU:HD23	1:2:649:LEU:HD13	1.98	0.45
1:3:298:TRP:HE1	1:3:728:ILE:HG22	1.81	0.45
1:5:503:PHE:CZ	1:7:450:THR:HG21	2.51	0.45
1:A:695:ARG:HD3	1:A:699:GLU:OE2	2.18	0.44
1:B:556:LEU:O	1:B:559:VAL:HG22	2.17	0.44
1:H:387:GLN:OE1	1:Z:708:LYS:HD2	2.17	0.44
1:I:352:LEU:HG	1:I:400:PHE:HE2	1.81	0.44
1:I:433:ASP:N	1:I:433:ASP:OD1	2.50	0.44
1:Q:556:LEU:O	1:Q:559:VAL:HG22	2.17	0.44
1:S:679:GLN:NE2	1:d:653:THR:HG21	2.31	0.44
1:T:445:TYR:HE1	1:T:467:GLN:HG3	1.82	0.44
1:W:695:ARG:HD3	1:W:699:GLU:OE2	2.18	0.44
1:X:530:LYS:HG2	1:X:531:ASP:N	2.23	0.44
1:Y:679:GLN:NE2	1:4:653:THR:HG21	2.31	0.44
1:a:556:LEU:O	1:a:559:VAL:HG22	2.17	0.44
1:b:445:TYR:HE1	1:b:467:GLN:HG3	1.82	0.44
1:c:240:VAL:CG1	1:c:686:TRP:HB2	2.46	0.44
1:d:345:PHE:CZ	1:d:649:LEU:HD12	2.51	0.44
1:f:556:LEU:O	1:f:559:VAL:HG22	2.17	0.44
1:h:445:TYR:HE1	1:h:467:GLN:HG3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:445:TYR:HE1	1:p:467:GLN:HG3	1.82	0.44
1:u:433:ASP:N	1:u:433:ASP:OD1	2.50	0.44
1:u:445:TYR:HE1	1:u:467:GLN:HG3	1.82	0.44
1:u:679:GLN:NE2	1:2:653:THR:HG21	2.31	0.44
1:v:695:ARG:HD3	1:v:699:GLU:OE2	2.18	0.44
1:4:298:TRP:HE1	1:4:728:ILE:HG22	1.81	0.44
1:A:653:THR:HG21	1:B:679:GLN:NE2	2.31	0.44
1:D:387:GLN:OE1	1:E:708:LYS:HD2	2.17	0.44
1:E:296:ARG:NE	1:P:699:GLU:HG2	2.32	0.44
1:E:439:LEU:HD21	1:Q:278:SER:HB2	1.98	0.44
1:I:445:TYR:HE1	1:I:467:GLN:HG3	1.82	0.44
1:K:556:LEU:O	1:K:559:VAL:HG22	2.17	0.44
1:K:653:THR:HG21	1:7:679:GLN:NE2	2.31	0.44
1:K:677:THR:HG21	1:L:656:PRO:HD2	1.98	0.44
1:O:664:THR:H	1:d:373:MET:CE	2.31	0.44
1:Q:695:ARG:HD3	1:Q:699:GLU:OE2	2.18	0.44
1:R:532:ASP:OD1	1:S:384:ASN:ND2	2.43	0.44
1:R:695:ARG:HD3	1:R:699:GLU:OE2	2.18	0.44
1:T:653:THR:HG21	1:i:679:GLN:NE2	2.32	0.44
1:X:345:PHE:CZ	1:X:649:LEU:HD12	2.51	0.44
1:Z:298:TRP:HE1	1:Z:728:ILE:HG22	1.81	0.44
1:f:445:TYR:HE1	1:f:467:GLN:HG3	1.82	0.44
1:g:387:GLN:OE1	1:k:708:LYS:HD2	2.16	0.44
1:h:240:VAL:CG1	1:h:686:TRP:HB2	2.47	0.44
1:q:695:ARG:HD3	1:q:699:GLU:OE2	2.18	0.44
1:w:439:LEU:HD21	1:x:278:SER:HB2	1.98	0.44
1:x:695:ARG:HD3	1:x:699:GLU:OE2	2.17	0.44
1:1:695:ARG:HD3	1:1:699:GLU:OE2	2.18	0.44
1:3:556:LEU:O	1:3:559:VAL:HG22	2.17	0.44
1:5:695:ARG:HD3	1:5:699:GLU:OE2	2.17	0.44
1:6:695:ARG:HD3	1:6:699:GLU:OE2	2.18	0.44
1:8:298:TRP:HE1	1:8:728:ILE:HG22	1.81	0.44
1:B:445:TYR:HE1	1:B:467:GLN:HG3	1.82	0.44
1:B:695:ARG:HD3	1:B:699:GLU:OE2	2.18	0.44
1:F:445:TYR:HE1	1:F:467:GLN:HG3	1.82	0.44
1:G:298:TRP:HE1	1:G:728:ILE:HG22	1.81	0.44
1:G:352:LEU:HG	1:G:400:PHE:HE2	1.81	0.44
1:H:298:TRP:HE1	1:H:728:ILE:HG22	1.81	0.44
1:H:695:ARG:HD3	1:H:699:GLU:OE2	2.17	0.44
1:J:397:LEU:HD23	1:J:649:LEU:HD13	1.98	0.44
1:K:298:TRP:HE1	1:K:728:ILE:HG22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:387:GLN:OE1	1:c:708:LYS:HD2	2.16	0.44
1:M:433:ASP:OD1	1:M:433:ASP:N	2.50	0.44
1:M:503:PHE:CZ	1:b:450:THR:HG21	2.51	0.44
1:P:445:TYR:HE1	1:P:467:GLN:HG3	1.82	0.44
1:V:445:TYR:HE1	1:V:467:GLN:HG3	1.82	0.44
1:b:298:TRP:HE1	1:b:728:ILE:HG22	1.81	0.44
1:d:397:LEU:HD23	1:d:649:LEU:HD13	1.98	0.44
1:d:695:ARG:HD3	1:d:699:GLU:OE2	2.18	0.44
1:e:240:VAL:CG1	1:e:686:TRP:HB2	2.46	0.44
1:f:298:TRP:HE1	1:f:728:ILE:HG22	1.81	0.44
1:k:664:THR:H	1:w:373:MET:CE	2.31	0.44
1:l:664:THR:H	1:n:373:MET:CE	2.31	0.44
1:n:397:LEU:HD23	1:n:649:LEU:HD13	1.98	0.44
1:n:695:ARG:HD3	1:n:699:GLU:OE2	2.18	0.44
1:o:345:PHE:CZ	1:o:649:LEU:HD12	2.51	0.44
1:r:397:LEU:HD23	1:r:649:LEU:HD13	1.98	0.44
1:t:240:VAL:CG1	1:t:686:TRP:HB2	2.47	0.44
1:t:352:LEU:HG	1:t:400:PHE:HE2	1.81	0.44
1:t:664:THR:H	1:y:373:MET:CE	2.31	0.44
1:u:352:LEU:HG	1:u:400:PHE:HE2	1.81	0.44
1:y:445:TYR:HE1	1:y:467:GLN:HG3	1.82	0.44
1:1:445:TYR:HE1	1:1:467:GLN:HG3	1.82	0.44
1:2:445:TYR:HE1	1:2:467:GLN:HG3	1.82	0.44
1:4:556:LEU:O	1:4:559:VAL:HG22	2.17	0.44
1:5:387:GLN:OE1	1:8:708:LYS:HD2	2.17	0.44
1:B:298:TRP:HE1	1:B:728:ILE:HG22	1.81	0.44
1:F:373:MET:CE	1:G:664:THR:H	2.31	0.44
1:H:240:VAL:CG1	1:H:686:TRP:HB2	2.47	0.44
1:J:445:TYR:HE1	1:J:467:GLN:HG3	1.82	0.44
1:L:695:ARG:HD3	1:L:699:GLU:OE2	2.18	0.44
1:M:240:VAL:CG1	1:M:686:TRP:HB2	2.47	0.44
1:M:664:THR:H	1:c:373:MET:CE	2.31	0.44
1:P:321:GLN:NE2	1:Q:340:SER:HA	2.32	0.44
1:P:397:LEU:HD23	1:P:649:LEU:HD13	1.98	0.44
1:P:695:ARG:HD3	1:P:699:GLU:OE2	2.18	0.44
1:S:397:LEU:HD23	1:S:649:LEU:HD13	1.98	0.44
1:S:695:ARG:HD3	1:S:699:GLU:OE2	2.18	0.44
1:T:352:LEU:HG	1:T:400:PHE:HE2	1.81	0.44
1:U:556:LEU:O	1:U:559:VAL:HG22	2.17	0.44
1:Z:695:ARG:HD3	1:Z:699:GLU:OE2	2.18	0.44
1:d:556:LEU:O	1:d:559:VAL:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:450:THR:HG21	1:h:503:PHE:CZ	2.51	0.44
1:f:695:ARG:HD3	1:f:699:GLU:OE2	2.18	0.44
1:h:433:ASP:OD1	1:h:433:ASP:N	2.50	0.44
1:i:397:LEU:HD23	1:i:649:LEU:HD13	1.98	0.44
1:j:397:LEU:HD23	1:j:649:LEU:HD13	1.98	0.44
1:l:656:PRO:HD2	1:n:677:THR:HG21	1.98	0.44
1:m:352:LEU:HG	1:m:400:PHE:HE2	1.81	0.44
1:n:556:LEU:O	1:n:559:VAL:HG22	2.17	0.44
1:o:397:LEU:HD23	1:o:649:LEU:HD13	1.98	0.44
1:t:298:TRP:HE1	1:t:728:ILE:HG22	1.81	0.44
1:5:240:VAL:CG1	1:5:686:TRP:HB2	2.47	0.44
1:6:323:LYS:NZ	1:6:336:ASN:OD1	2.35	0.44
1:7:445:TYR:HE1	1:7:467:GLN:HG3	1.82	0.44
1:C:278:SER:HB2	1:M:439:LEU:HD21	1.98	0.44
1:D:445:TYR:HE1	1:D:467:GLN:HG3	1.82	0.44
1:F:433:ASP:OD1	1:F:433:ASP:N	2.50	0.44
1:G:373:MET:CE	1:W:664:THR:H	2.31	0.44
1:L:556:LEU:O	1:L:559:VAL:HG22	2.17	0.44
1:N:397:LEU:HD23	1:N:649:LEU:HD13	1.98	0.44
1:T:556:LEU:O	1:T:559:VAL:HG22	2.17	0.44
1:U:373:MET:CE	1:e:664:THR:H	2.31	0.44
1:U:433:ASP:N	1:U:433:ASP:OD1	2.50	0.44
1:V:556:LEU:O	1:V:559:VAL:HG22	2.17	0.44
1:W:298:TRP:HE1	1:W:728:ILE:HG22	1.81	0.44
1:X:664:THR:H	1:f:373:MET:CE	2.31	0.44
1:Y:445:TYR:HE1	1:Y:467:GLN:HG3	1.82	0.44
1:b:695:ARG:HD3	1:b:699:GLU:OE2	2.18	0.44
1:c:556:LEU:O	1:c:559:VAL:HG22	2.17	0.44
1:e:373:MET:CE	1:h:664:THR:H	2.31	0.44
1:e:708:LYS:HD2	1:h:387:GLN:OE1	2.16	0.44
1:g:278:SER:HB2	1:h:439:LEU:HD21	1.98	0.44
1:g:433:ASP:OD1	1:g:433:ASP:N	2.50	0.44
1:i:450:THR:HG21	1:j:503:PHE:CZ	2.52	0.44
1:i:703:THR:HG23	1:l:701:GLN:H	1.81	0.44
1:j:445:TYR:HE1	1:j:467:GLN:HG3	1.82	0.44
1:j:695:ARG:HD3	1:j:699:GLU:OE2	2.18	0.44
1:k:445:TYR:HE1	1:k:467:GLN:HG3	1.82	0.44
1:o:530:LYS:HG2	1:o:531:ASP:N	2.23	0.44
1:r:695:ARG:HD3	1:r:699:GLU:OE2	2.18	0.44
1:t:373:MET:CE	1:6:664:THR:H	2.31	0.44
1:y:433:ASP:OD1	1:y:433:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:695:ARG:HD3	1:z:699:GLU:OE2	2.18	0.44
1:6:298:TRP:HE1	1:6:728:ILE:HG22	1.81	0.44
1:8:695:ARG:HD3	1:8:699:GLU:OE2	2.18	0.44
1:D:664:THR:H	1:E:373:MET:CE	2.31	0.44
1:E:695:ARG:HD3	1:E:699:GLU:OE2	2.18	0.44
1:H:373:MET:CE	1:I:664:THR:H	2.31	0.44
1:I:373:MET:CE	1:J:664:THR:H	2.31	0.44
1:J:253:TYR:HB2	1:J:280:PRO:HA	2.00	0.44
1:N:253:TYR:HB2	1:N:280:PRO:HA	2.00	0.44
1:O:656:PRO:HD2	1:d:677:THR:HG21	1.98	0.44
1:O:695:ARG:HD3	1:O:699:GLU:OE2	2.18	0.44
1:Q:433:ASP:N	1:Q:433:ASP:OD1	2.50	0.44
1:X:397:LEU:HD23	1:X:649:LEU:HD13	1.98	0.44
1:Y:695:ARG:HD3	1:Y:699:GLU:OE2	2.18	0.44
1:b:373:MET:CE	1:o:664:THR:H	2.31	0.44
1:c:664:THR:H	1:s:373:MET:CE	2.31	0.44
1:d:437:ASN:HB2	1:l:355:VAL:HB	2.00	0.44
1:e:556:LEU:O	1:e:559:VAL:HG22	2.17	0.44
1:i:253:TYR:HB2	1:i:280:PRO:HA	2.00	0.44
1:l:695:ARG:HD3	1:l:699:GLU:OE2	2.17	0.44
1:m:556:LEU:O	1:m:559:VAL:HG22	2.17	0.44
1:o:439:LEU:HD21	1:p:278:SER:HB2	1.98	0.44
1:r:445:TYR:HE1	1:r:467:GLN:HG3	1.82	0.44
1:r:653:THR:HG21	1:x:679:GLN:NE2	2.31	0.44
1:s:433:ASP:OD1	1:s:433:ASP:N	2.50	0.44
1:s:556:LEU:O	1:s:559:VAL:HG22	2.17	0.44
1:u:373:MET:CE	1:2:664:THR:H	2.31	0.44
1:w:695:ARG:HD3	1:w:699:GLU:OE2	2.17	0.44
1:1:298:TRP:HE1	1:1:728:ILE:HG22	1.81	0.44
1:2:253:TYR:HB2	1:2:280:PRO:HA	2.00	0.44
1:4:695:ARG:HD3	1:4:699:GLU:OE2	2.18	0.44
1:5:298:TRP:HE1	1:5:728:ILE:HG22	1.81	0.44
1:5:397:LEU:HD23	1:5:649:LEU:HD13	1.98	0.44
1:7:556:LEU:O	1:7:559:VAL:HG22	2.17	0.44
1:C:433:ASP:OD1	1:C:433:ASP:N	2.50	0.44
1:E:355:VAL:HB	1:F:437:ASN:HB2	2.00	0.44
1:H:397:LEU:HD23	1:H:649:LEU:HD13	1.98	0.44
1:K:253:TYR:HB2	1:K:280:PRO:HA	2.00	0.44
1:K:695:ARG:HD3	1:K:699:GLU:OE2	2.18	0.44
1:M:708:LYS:HD2	1:N:387:GLN:OE1	2.17	0.44
1:O:355:VAL:HB	1:n:437:ASN:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:679:GLN:NE2	1:S:653:THR:HG21	2.31	0.44
1:S:677:THR:HG21	1:d:656:PRO:HD2	1.98	0.44
1:V:278:SER:HB2	1:X:439:LEU:HD21	1.98	0.44
1:V:695:ARG:HD3	1:V:699:GLU:OE2	2.18	0.44
1:Y:556:LEU:O	1:Y:559:VAL:HG22	2.17	0.44
1:c:433:ASP:OD1	1:c:433:ASP:N	2.50	0.44
1:g:397:LEU:HD23	1:g:649:LEU:HD13	1.98	0.44
1:l:253:TYR:HB2	1:l:280:PRO:HA	2.00	0.44
1:p:556:LEU:O	1:p:559:VAL:HG22	2.17	0.44
1:t:695:ARG:HD3	1:t:699:GLU:OE2	2.18	0.44
1:u:664:THR:H	1:5:373:MET:CE	2.31	0.44
1:v:653:THR:HG21	1:1:679:GLN:NE2	2.32	0.44
1:x:433:ASP:N	1:x:433:ASP:OD1	2.50	0.44
1:z:445:TYR:HE1	1:z:467:GLN:HG3	1.82	0.44
1:z:556:LEU:O	1:z:559:VAL:HG22	2.17	0.44
1:2:373:MET:CE	1:3:664:THR:H	2.31	0.44
1:4:253:TYR:HB2	1:4:280:PRO:HA	2.00	0.44
1:7:695:ARG:HD3	1:7:699:GLU:OE2	2.18	0.44
1:C:397:LEU:HD23	1:C:649:LEU:HD13	1.98	0.44
1:C:437:ASN:HB2	1:b:355:VAL:HB	2.00	0.44
1:C:532:ASP:OD1	1:b:384:ASN:ND2	2.43	0.44
1:G:695:ARG:HD3	1:G:699:GLU:OE2	2.18	0.44
1:H:445:TYR:HE1	1:H:467:GLN:HG3	1.82	0.44
1:J:373:MET:CE	1:a:664:THR:H	2.31	0.44
1:K:664:THR:H	1:7:373:MET:CE	2.31	0.44
1:N:695:ARG:HD3	1:N:699:GLU:OE2	2.18	0.44
1:O:253:TYR:HB2	1:O:280:PRO:HA	2.00	0.44
1:V:253:TYR:HB2	1:V:280:PRO:HA	2.00	0.44
1:X:695:ARG:HD3	1:X:699:GLU:OE2	2.18	0.44
1:Y:373:MET:CE	1:4:664:THR:H	2.31	0.44
1:e:445:TYR:HE1	1:e:467:GLN:HG3	1.82	0.44
1:f:355:VAL:HB	1:g:437:ASN:HB2	2.00	0.44
1:f:384:ASN:ND2	1:g:532:ASP:OD1	2.43	0.44
1:g:445:TYR:HE1	1:g:467:GLN:HG3	1.82	0.44
1:i:695:ARG:HD3	1:i:699:GLU:OE2	2.18	0.44
1:m:373:MET:CE	1:s:664:THR:H	2.31	0.44
1:n:656:PRO:HD2	1:r:677:THR:HG21	1.98	0.44
1:o:695:ARG:HD3	1:o:699:GLU:OE2	2.18	0.44
1:p:253:TYR:HB2	1:p:280:PRO:HA	2.00	0.44
1:p:695:ARG:HD3	1:p:699:GLU:OE2	2.18	0.44
1:7:253:TYR:HB2	1:7:280:PRO:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:VAL:HB	1:I:437:ASN:HB2	2.00	0.44
1:C:445:TYR:HE1	1:C:467:GLN:HG3	1.82	0.44
1:D:433:ASP:N	1:D:433:ASP:OD1	2.50	0.44
1:J:298:TRP:HE1	1:J:728:ILE:HG22	1.81	0.44
1:K:373:MET:CE	1:L:664:THR:H	2.31	0.44
1:L:445:TYR:HE1	1:L:467:GLN:HG3	1.82	0.44
1:N:703:THR:HG23	1:O:701:GLN:H	1.81	0.44
1:O:445:TYR:HE1	1:O:467:GLN:HG3	1.82	0.44
1:S:253:TYR:HB2	1:S:280:PRO:HA	2.00	0.44
1:S:445:TYR:HE1	1:S:467:GLN:HG3	1.82	0.44
1:T:373:MET:CE	1:U:664:THR:H	2.31	0.44
1:V:397:LEU:HD23	1:V:649:LEU:HD13	1.98	0.44
1:X:253:TYR:HB2	1:X:280:PRO:HA	2.00	0.44
1:Y:253:TYR:HB2	1:Y:280:PRO:HA	2.00	0.44
1:Z:664:THR:H	1:a:373:MET:CE	2.31	0.44
1:c:253:TYR:HB2	1:c:280:PRO:HA	2.00	0.44
1:e:433:ASP:N	1:e:433:ASP:OD1	2.50	0.44
1:l:445:TYR:HE1	1:l:467:GLN:HG3	1.83	0.44
1:o:253:TYR:HB2	1:o:280:PRO:HA	2.00	0.44
1:o:373:MET:CE	1:7:664:THR:H	2.31	0.44
1:p:397:LEU:HD23	1:p:649:LEU:HD13	1.98	0.44
1:3:373:MET:CE	1:8:664:THR:H	2.31	0.44
1:5:445:TYR:HE1	1:5:467:GLN:HG3	1.82	0.44
1:6:433:ASP:N	1:6:433:ASP:OD1	2.50	0.44
1:G:253:TYR:HB2	1:G:280:PRO:HA	2.00	0.43
1:P:556:LEU:O	1:P:559:VAL:HG22	2.17	0.43
1:Q:253:TYR:HB2	1:Q:280:PRO:HA	2.00	0.43
1:V:664:THR:H	1:W:373:MET:CE	2.31	0.43
1:X:373:MET:CE	1:Y:664:THR:H	2.31	0.43
1:Z:355:VAL:HB	1:3:437:ASN:HB2	2.00	0.43
1:c:445:TYR:HE1	1:c:467:GLN:HG3	1.82	0.43
1:e:253:TYR:HB2	1:e:280:PRO:HA	2.00	0.43
1:j:253:TYR:HB2	1:j:280:PRO:HA	2.00	0.43
1:j:556:LEU:O	1:j:559:VAL:HG22	2.17	0.43
1:s:695:ARG:HD3	1:s:699:GLU:OE2	2.18	0.43
1:t:253:TYR:HB2	1:t:280:PRO:HA	2.00	0.43
1:u:437:ASN:HB2	1:v:355:VAL:HB	2.00	0.43
1:w:355:VAL:HB	1:y:437:ASN:HB2	2.00	0.43
1:z:433:ASP:N	1:z:433:ASP:OD1	2.50	0.43
1:z:664:THR:H	1:4:373:MET:CE	2.31	0.43
1:E:445:TYR:HE1	1:E:467:GLN:HG3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:450:THR:HG21	1:P:503:PHE:CZ	2.53	0.43
1:P:253:TYR:HB2	1:P:280:PRO:HA	2.00	0.43
1:R:253:TYR:HB2	1:R:280:PRO:HA	2.00	0.43
1:U:695:ARG:HD3	1:U:699:GLU:OE2	2.18	0.43
1:V:355:VAL:HB	1:X:437:ASN:HB2	2.01	0.43
1:W:437:ASN:HB2	1:Y:355:VAL:HB	2.00	0.43
1:a:437:ASN:HB2	1:8:355:VAL:HB	2.00	0.43
1:d:253:TYR:HB2	1:d:280:PRO:HA	2.00	0.43
1:k:433:ASP:OD1	1:k:433:ASP:N	2.50	0.43
1:n:253:TYR:HB2	1:n:280:PRO:HA	2.00	0.43
1:o:437:ASN:HB2	1:p:355:VAL:HB	2.01	0.43
1:q:253:TYR:HB2	1:q:280:PRO:HA	2.00	0.43
1:r:253:TYR:HB2	1:r:280:PRO:HA	2.00	0.43
1:x:253:TYR:HB2	1:x:280:PRO:HA	2.00	0.43
1:2:433:ASP:OD1	1:2:433:ASP:N	2.50	0.43
1:3:695:ARG:HD3	1:3:699:GLU:OE2	2.18	0.43
1:6:445:TYR:HE1	1:6:467:GLN:HG3	1.82	0.43
1:A:253:TYR:HB2	1:A:280:PRO:HA	2.00	0.43
1:F:564:GLU:OE2	1:F:614:TYR:OH	2.15	0.43
1:H:664:THR:H	1:Z:373:MET:CE	2.31	0.43
1:L:433:ASP:N	1:L:433:ASP:OD1	2.50	0.43
1:M:373:MET:CE	1:N:664:THR:H	2.31	0.43
1:R:664:THR:H	1:V:373:MET:CE	2.31	0.43
1:U:253:TYR:HB2	1:U:280:PRO:HA	2.00	0.43
1:W:445:TYR:HE1	1:W:467:GLN:HG3	1.82	0.43
1:g:253:TYR:HB2	1:g:280:PRO:HA	2.00	0.43
1:g:695:ARG:HD3	1:g:699:GLU:OE2	2.18	0.43
1:k:695:ARG:HD3	1:k:699:GLU:OE2	2.18	0.43
1:p:664:THR:H	1:6:373:MET:CE	2.31	0.43
1:s:445:TYR:HE1	1:s:467:GLN:HG3	1.82	0.43
1:v:253:TYR:HB2	1:v:280:PRO:HA	2.00	0.43
1:w:445:TYR:HE1	1:w:467:GLN:HG3	1.82	0.43
1:2:298:TRP:HE1	1:2:728:ILE:HG22	1.81	0.43
1:5:355:VAL:HB	1:7:437:ASN:HB2	2.01	0.43
1:6:253:TYR:HB2	1:6:280:PRO:HA	2.00	0.43
1:6:437:ASN:HB2	1:7:355:VAL:HB	2.00	0.43
1:A:373:MET:CE	1:E:664:THR:H	2.31	0.43
1:B:664:THR:H	1:C:373:MET:CE	2.31	0.43
1:C:253:TYR:HB2	1:C:280:PRO:HA	2.00	0.43
1:C:528:THR:HG21	1:C:563:ASN:HA	2.01	0.43
1:D:695:ARG:HD3	1:D:699:GLU:OE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:253:TYR:HB2	1:F:280:PRO:HA	2.00	0.43
1:H:253:TYR:HB2	1:H:280:PRO:HA	2.00	0.43
1:J:433:ASP:OD1	1:J:433:ASP:N	2.50	0.43
1:K:355:VAL:HB	1:8:437:ASN:HB2	2.01	0.43
1:K:437:ASN:HB2	1:a:355:VAL:HB	2.00	0.43
1:M:313:LEU:HB3	1:M:415:TYR:HB3	2.01	0.43
1:Q:445:TYR:HE1	1:Q:467:GLN:HG3	1.82	0.43
1:W:253:TYR:HB2	1:W:280:PRO:HA	2.00	0.43
1:a:695:ARG:HD3	1:a:699:GLU:OE2	2.18	0.43
1:f:437:ASN:HB2	1:h:355:VAL:HB	2.00	0.43
1:h:253:TYR:HB2	1:h:280:PRO:HA	2.00	0.43
1:h:313:LEU:HB3	1:h:415:TYR:HB3	2.01	0.43
1:j:373:MET:CE	1:x:664:THR:H	2.31	0.43
1:p:373:MET:CE	1:q:664:THR:H	2.31	0.43
1:s:253:TYR:HB2	1:s:280:PRO:HA	2.00	0.43
1:u:695:ARG:HD3	1:u:699:GLU:OE2	2.17	0.43
1:3:355:VAL:HB	1:4:437:ASN:HB2	2.00	0.43
1:B:253:TYR:HB2	1:B:280:PRO:HA	2.00	0.43
1:C:695:ARG:HD3	1:C:699:GLU:OE2	2.18	0.43
1:H:355:VAL:HB	1:Y:437:ASN:HB2	2.01	0.43
1:H:437:ASN:HB2	1:W:355:VAL:HB	2.00	0.43
1:I:313:LEU:HB3	1:I:415:TYR:HB3	2.01	0.43
1:J:437:ASN:HB2	1:L:355:VAL:HB	2.01	0.43
1:J:695:ARG:HD3	1:J:699:GLU:OE2	2.18	0.43
1:L:373:MET:CE	1:b:664:THR:H	2.31	0.43
1:M:253:TYR:HB2	1:M:280:PRO:HA	2.00	0.43
1:M:355:VAL:HB	1:b:437:ASN:HB2	2.00	0.43
1:M:528:THR:HG21	1:M:563:ASN:HA	2.01	0.43
1:N:445:TYR:HE1	1:N:467:GLN:HG3	1.82	0.43
1:U:445:TYR:HE1	1:U:467:GLN:HG3	1.82	0.43
1:X:431:SER:HA	1:X:569:PRO:HB3	2.01	0.43
1:Z:437:ASN:HB2	1:4:355:VAL:HB	2.01	0.43
1:d:528:THR:HG21	1:d:563:ASN:HA	2.01	0.43
1:e:528:THR:HG21	1:e:563:ASN:HA	2.01	0.43
1:g:664:THR:H	1:k:373:MET:CE	2.31	0.43
1:h:528:THR:HG21	1:h:563:ASN:HA	2.01	0.43
1:j:532:ASP:OD1	1:k:384:ASN:ND2	2.43	0.43
1:n:528:THR:HG21	1:n:563:ASN:HA	2.01	0.43
1:n:664:THR:H	1:r:373:MET:CE	2.31	0.43
1:o:431:SER:HA	1:o:569:PRO:HB3	2.01	0.43
1:u:313:LEU:HB3	1:u:415:TYR:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:433:ASP:OD1	1:v:433:ASP:N	2.50	0.43
1:y:253:TYR:HB2	1:y:280:PRO:HA	2.00	0.43
1:1:253:TYR:HB2	1:1:280:PRO:HA	2.00	0.43
1:4:431:SER:HA	1:4:569:PRO:HB3	2.01	0.43
1:5:253:TYR:HB2	1:5:280:PRO:HA	2.00	0.43
1:5:664:THR:H	1:8:373:MET:CE	2.31	0.43
1:A:433:ASP:OD1	1:A:433:ASP:N	2.50	0.43
1:F:313:LEU:HB3	1:F:415:TYR:HB3	2.01	0.43
1:H:528:THR:HG21	1:H:563:ASN:HA	2.01	0.43
1:I:695:ARG:HD3	1:I:699:GLU:OE2	2.18	0.43
1:K:431:SER:HA	1:K:569:PRO:HB3	2.01	0.43
1:M:695:ARG:HD3	1:M:699:GLU:OE2	2.18	0.43
1:O:313:LEU:HB3	1:O:415:TYR:HB3	2.01	0.43
1:Q:373:MET:CE	1:S:664:THR:H	2.31	0.43
1:R:355:VAL:HB	1:U:437:ASN:HB2	2.01	0.43
1:R:445:TYR:HE1	1:R:467:GLN:HG3	1.82	0.43
1:a:253:TYR:HB2	1:a:280:PRO:HA	2.00	0.43
1:c:528:THR:HG21	1:c:563:ASN:HA	2.01	0.43
1:g:373:MET:CE	1:l:664:THR:H	2.31	0.43
1:h:695:ARG:HD3	1:h:699:GLU:OE2	2.18	0.43
1:i:445:TYR:HE1	1:i:467:GLN:HG3	1.82	0.43
1:j:313:LEU:HB3	1:j:415:TYR:HB3	2.01	0.43
1:j:664:THR:H	1:l:373:MET:CE	2.31	0.43
1:l:313:LEU:HB3	1:l:415:TYR:HB3	2.01	0.43
1:m:695:ARG:HD3	1:m:699:GLU:OE2	2.18	0.43
1:r:431:SER:HA	1:r:569:PRO:HB3	2.01	0.43
1:r:664:THR:H	1:x:373:MET:CE	2.31	0.43
1:s:528:THR:HG21	1:s:563:ASN:HA	2.01	0.43
1:v:373:MET:CE	1:w:664:THR:H	2.31	0.43
1:x:445:TYR:HE1	1:x:467:GLN:HG3	1.82	0.43
1:z:313:LEU:HB3	1:z:415:TYR:HB3	2.01	0.43
1:z:355:VAL:HB	1:2:437:ASN:HB2	2.01	0.43
1:2:695:ARG:HD3	1:2:699:GLU:OE2	2.18	0.43
1:3:253:TYR:HB2	1:3:280:PRO:HA	2.00	0.43
1:5:437:ASN:HB2	1:6:355:VAL:HB	2.00	0.43
1:6:313:LEU:HB3	1:6:415:TYR:HB3	2.01	0.43
1:D:552:ASN:O	1:P:466:TYR:HA	2.18	0.43
1:K:433:ASP:OD1	1:K:433:ASP:N	2.50	0.43
1:L:313:LEU:HB3	1:L:415:TYR:HB3	2.01	0.43
1:L:431:SER:HA	1:L:569:PRO:HB3	2.01	0.43
1:M:431:SER:HA	1:M:569:PRO:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:373:MET:CE	1:m:664:THR:H	2.32	0.43
1:P:313:LEU:HB3	1:P:415:TYR:HB3	2.01	0.43
1:S:373:MET:CE	1:d:664:THR:H	2.31	0.43
1:S:431:SER:HA	1:S:569:PRO:HB3	2.01	0.43
1:T:695:ARG:HD3	1:T:699:GLU:OE2	2.18	0.43
1:U:528:THR:HG21	1:U:563:ASN:HA	2.01	0.43
1:W:313:LEU:HB3	1:W:415:TYR:HB3	2.01	0.43
1:a:313:LEU:HB3	1:a:415:TYR:HB3	2.01	0.43
1:f:528:THR:HG21	1:f:563:ASN:HA	2.01	0.43
1:f:664:THR:H	1:z:373:MET:CE	2.31	0.43
1:g:528:THR:HG21	1:g:563:ASN:HA	2.01	0.43
1:j:431:SER:HA	1:j:569:PRO:HB3	2.01	0.43
1:j:437:ASN:HB2	1:k:355:VAL:HB	2.00	0.43
1:k:528:THR:HG21	1:k:563:ASN:HA	2.01	0.43
1:l:433:ASP:N	1:l:433:ASP:OD1	2.50	0.43
1:m:528:THR:HG21	1:m:563:ASN:HA	2.01	0.43
1:o:528:THR:HG21	1:o:563:ASN:HA	2.01	0.43
1:q:355:VAL:HB	1:s:437:ASN:HB2	2.01	0.43
1:q:445:TYR:HE1	1:q:467:GLN:HG3	1.82	0.43
1:y:313:LEU:HB3	1:y:415:TYR:HB3	2.01	0.43
1:z:431:SER:HA	1:z:569:PRO:HB3	2.01	0.43
1:3:431:SER:HA	1:3:569:PRO:HB3	2.01	0.43
1:5:528:THR:HG21	1:5:563:ASN:HA	2.01	0.43
1:6:528:THR:HG21	1:6:563:ASN:HA	2.01	0.43
1:B:433:ASP:N	1:B:433:ASP:OD1	2.50	0.43
1:F:664:THR:H	1:R:373:MET:CE	2.31	0.43
1:G:528:THR:HG21	1:G:563:ASN:HA	2.01	0.43
1:L:528:THR:HG21	1:L:563:ASN:HA	2.01	0.43
1:O:433:ASP:N	1:O:433:ASP:OD1	2.50	0.43
1:P:431:SER:HA	1:P:569:PRO:HB3	2.01	0.43
1:Q:313:LEU:HB3	1:Q:415:TYR:HB3	2.01	0.43
1:Q:431:SER:HA	1:Q:569:PRO:HB3	2.01	0.43
1:T:528:THR:HG21	1:T:563:ASN:HA	2.01	0.43
1:W:431:SER:HA	1:W:569:PRO:HB3	2.01	0.43
1:W:528:THR:HG21	1:W:563:ASN:HA	2.01	0.43
1:X:528:THR:HG21	1:X:563:ASN:HA	2.01	0.43
1:a:431:SER:HA	1:a:569:PRO:HB3	2.01	0.43
1:b:433:ASP:N	1:b:433:ASP:OD1	2.50	0.43
1:b:528:THR:HG21	1:b:563:ASN:HA	2.01	0.43
1:c:699:GLU:HB2	1:c:701:GLN:HE21	1.84	0.43
1:e:699:GLU:HB2	1:e:701:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:699:GLU:HB2	1:f:701:GLN:HE21	1.84	0.43
1:h:431:SER:HA	1:h:569:PRO:HB3	2.01	0.43
1:j:433:ASP:N	1:j:433:ASP:OD1	2.50	0.43
1:k:253:TYR:HB2	1:k:280:PRO:HA	2.00	0.43
1:m:437:ASN:HB2	1:n:355:VAL:HB	2.00	0.43
1:q:373:MET:CE	1:y:664:THR:H	2.31	0.43
1:v:664:THR:H	1:1:373:MET:CE	2.31	0.43
1:x:431:SER:HA	1:x:569:PRO:HB3	2.01	0.43
1:y:695:ARG:HD3	1:y:699:GLU:OE2	2.18	0.43
1:3:313:LEU:HB3	1:3:415:TYR:HB3	2.01	0.43
1:8:431:SER:HA	1:8:569:PRO:HB3	2.01	0.43
1:A:437:ASN:HB2	1:G:355:VAL:HB	2.00	0.43
1:D:253:TYR:HB2	1:D:280:PRO:HA	2.00	0.43
1:D:437:ASN:HB2	1:N:355:VAL:HB	2.00	0.43
1:D:528:THR:HG21	1:D:563:ASN:HA	2.01	0.43
1:F:695:ARG:HD3	1:F:699:GLU:OE2	2.18	0.43
1:T:437:ASN:HB2	1:d:355:VAL:HB	2.00	0.43
1:T:664:THR:H	1:i:373:MET:CE	2.32	0.43
1:V:431:SER:HA	1:V:569:PRO:HB3	2.01	0.43
1:Y:431:SER:HA	1:Y:569:PRO:HB3	2.01	0.43
1:Z:431:SER:HA	1:Z:569:PRO:HB3	2.01	0.43
1:b:699:GLU:HB2	1:b:701:GLN:HE21	1.84	0.43
1:d:532:ASP:OD1	1:l:384:ASN:ND2	2.43	0.43
1:p:431:SER:HA	1:p:569:PRO:HB3	2.01	0.43
1:q:532:ASP:OD1	1:r:384:ASN:ND2	2.43	0.43
1:t:528:THR:HG21	1:t:563:ASN:HA	2.01	0.43
1:v:431:SER:HA	1:v:569:PRO:HB3	2.01	0.43
1:x:313:LEU:HB3	1:x:415:TYR:HB3	2.01	0.43
1:z:528:THR:HG21	1:z:563:ASN:HA	2.01	0.43
1:4:433:ASP:N	1:4:433:ASP:OD1	2.50	0.43
1:6:431:SER:HA	1:6:569:PRO:HB3	2.01	0.43
1:7:431:SER:HA	1:7:569:PRO:HB3	2.01	0.43
1:A:431:SER:HA	1:A:569:PRO:HB3	2.01	0.43
1:I:699:GLU:HB2	1:I:701:GLN:HE21	1.84	0.43
1:K:528:THR:HG21	1:K:563:ASN:HA	2.01	0.43
1:X:313:LEU:HB3	1:X:415:TYR:HB3	2.01	0.43
1:Y:528:THR:HG21	1:Y:563:ASN:HA	2.01	0.43
1:c:323:LYS:NZ	1:c:336:ASN:OD1	2.35	0.43
1:d:699:GLU:HB2	1:d:701:GLN:HE21	1.84	0.43
1:e:323:LYS:NZ	1:e:336:ASN:OD1	2.35	0.43
1:e:695:ARG:HD3	1:e:699:GLU:OE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:433:ASP:OD1	1:f:433:ASP:N	2.50	0.43
1:h:373:MET:CE	1:i:664:THR:H	2.32	0.43
1:m:532:ASP:OD1	1:n:384:ASN:ND2	2.43	0.43
1:n:699:GLU:HB2	1:n:701:GLN:HE21	1.84	0.43
1:t:355:VAL:HB	1:v:437:ASN:HB2	2.00	0.43
1:u:699:GLU:HB2	1:u:701:GLN:HE21	1.84	0.43
1:w:699:GLU:HB2	1:w:701:GLN:HE21	1.84	0.43
1:x:528:THR:HG21	1:x:563:ASN:HA	2.01	0.43
1:1:433:ASP:N	1:1:433:ASP:OD1	2.50	0.43
1:5:699:GLU:HB2	1:5:701:GLN:HE21	1.84	0.43
1:C:664:THR:H	1:D:373:MET:CE	2.31	0.42
1:D:355:VAL:HB	1:P:437:ASN:HB2	2.00	0.42
1:E:313:LEU:HB3	1:E:415:TYR:HB3	2.01	0.42
1:E:528:THR:HG21	1:E:563:ASN:HA	2.01	0.42
1:E:699:GLU:HB2	1:E:701:GLN:HE21	1.84	0.42
1:H:699:GLU:HB2	1:H:701:GLN:HE21	1.84	0.42
1:L:699:GLU:HB2	1:L:701:GLN:HE21	1.84	0.42
1:P:433:ASP:OD1	1:P:433:ASP:N	2.50	0.42
1:R:313:LEU:HB3	1:R:415:TYR:HB3	2.01	0.42
1:V:437:ASN:HB2	1:e:355:VAL:HB	2.00	0.42
1:Y:313:LEU:HB3	1:Y:415:TYR:HB3	2.01	0.42
1:b:253:TYR:HB2	1:b:280:PRO:HA	2.00	0.42
1:c:355:VAL:HB	1:p:437:ASN:HB2	2.00	0.42
1:c:695:ARG:HD3	1:c:699:GLU:OE2	2.18	0.42
1:f:253:TYR:HB2	1:f:280:PRO:HA	2.00	0.42
1:m:253:TYR:HB2	1:m:280:PRO:HA	2.00	0.42
1:o:313:LEU:HB3	1:o:415:TYR:HB3	2.01	0.42
1:3:445:TYR:HE1	1:3:467:GLN:HG3	1.82	0.42
1:4:528:THR:HG21	1:4:563:ASN:HA	2.01	0.42
1:7:528:THR:HG21	1:7:563:ASN:HA	2.01	0.42
1:E:253:TYR:HB2	1:E:280:PRO:HA	2.00	0.42
1:F:355:VAL:HB	1:Q:437:ASN:HB2	2.00	0.42
1:F:404:MET:C	1:F:405:LEU:HD12	2.45	0.42
1:H:433:ASP:OD1	1:H:433:ASP:N	2.50	0.42
1:I:431:SER:HA	1:I:569:PRO:HB3	2.01	0.42
1:N:585:LEU:HD23	1:P:490:ARG:NH1	2.34	0.42
1:Q:528:THR:HG21	1:Q:563:ASN:HA	2.01	0.42
1:T:699:GLU:HB2	1:T:701:GLN:HE21	1.84	0.42
1:V:528:THR:HG21	1:V:563:ASN:HA	2.01	0.42
1:X:433:ASP:OD1	1:X:433:ASP:N	2.50	0.42
1:i:323:LYS:NZ	1:i:336:ASN:OD1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:528:THR:HG21	1:p:563:ASN:HA	2.01	0.42
1:q:313:LEU:HB3	1:q:415:TYR:HB3	2.01	0.42
1:u:431:SER:HA	1:u:569:PRO:HB3	2.01	0.42
1:v:699:GLU:HB2	1:v:701:GLN:HE21	1.84	0.42
1:w:253:TYR:HB2	1:w:280:PRO:HA	2.00	0.42
1:w:313:LEU:HB3	1:w:415:TYR:HB3	2.01	0.42
1:z:699:GLU:HB2	1:z:701:GLN:HE21	1.84	0.42
1:5:431:SER:HA	1:5:569:PRO:HB3	2.01	0.42
1:7:313:LEU:HB3	1:7:415:TYR:HB3	2.01	0.42
1:B:431:SER:HA	1:B:569:PRO:HB3	2.01	0.42
1:C:699:GLU:HB2	1:C:701:GLN:HE21	1.84	0.42
1:D:601:GLY:HA3	1:P:601:GLY:HA3	2.01	0.42
1:E:431:SER:HA	1:E:569:PRO:HB3	2.01	0.42
1:H:431:SER:HA	1:H:569:PRO:HB3	2.01	0.42
1:K:445:TYR:HE1	1:K:467:GLN:HG3	1.82	0.42
1:L:253:TYR:HB2	1:L:280:PRO:HA	2.00	0.42
1:R:437:ASN:HB2	1:S:355:VAL:HB	2.01	0.42
1:T:253:TYR:HB2	1:T:280:PRO:HA	2.00	0.42
1:U:404:MET:C	1:U:405:LEU:HD12	2.45	0.42
1:V:313:LEU:HB3	1:V:415:TYR:HB3	2.01	0.42
1:Z:253:TYR:HB2	1:Z:280:PRO:HA	2.00	0.42
1:Z:528:THR:HG21	1:Z:563:ASN:HA	2.01	0.42
1:g:699:GLU:HB2	1:g:701:GLN:HE21	1.84	0.42
1:i:431:SER:HA	1:i:569:PRO:HB3	2.01	0.42
1:i:528:THR:HG21	1:i:563:ASN:HA	2.01	0.42
1:l:404:MET:C	1:l:405:LEU:HD12	2.45	0.42
1:l:699:GLU:HB2	1:l:701:GLN:HE21	1.84	0.42
1:m:699:GLU:HB2	1:m:701:GLN:HE21	1.84	0.42
1:n:433:ASP:OD1	1:n:433:ASP:N	2.50	0.42
1:p:313:LEU:HB3	1:p:415:TYR:HB3	2.01	0.42
1:q:437:ASN:HB2	1:r:355:VAL:HB	2.01	0.42
1:t:437:ASN:HB2	1:u:355:VAL:HB	2.00	0.42
1:w:431:SER:HA	1:w:569:PRO:HB3	2.01	0.42
1:w:528:THR:HG21	1:w:563:ASN:HA	2.01	0.42
1:y:404:MET:C	1:y:405:LEU:HD12	2.45	0.42
1:1:532:ASP:OD1	1:2:384:ASN:ND2	2.43	0.42
1:5:612:ASP:OD1	1:5:730:THR:OG1	2.34	0.42
1:7:699:GLU:HB2	1:7:701:GLN:HE21	1.84	0.42
1:8:253:TYR:HB2	1:8:280:PRO:HA	2.00	0.42
1:8:528:THR:HG21	1:8:563:ASN:HA	2.01	0.42
1:A:699:GLU:HB2	1:A:701:GLN:HE21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:532:ASP:OD1	1:J:384:ASN:ND2	2.43	0.42
1:G:545:PHE:HB2	1:G:560:LEU:HB2	2.02	0.42
1:I:253:TYR:HB2	1:I:280:PRO:HA	2.00	0.42
1:I:528:THR:HG21	1:I:563:ASN:HA	2.01	0.42
1:I:545:PHE:HB2	1:I:560:LEU:HB2	2.02	0.42
1:N:431:SER:HA	1:N:569:PRO:HB3	2.01	0.42
1:N:439:LEU:HD21	1:P:278:SER:HB2	2.00	0.42
1:N:699:GLU:HB2	1:N:701:GLN:HE21	1.84	0.42
1:O:699:GLU:HB2	1:O:701:GLN:HE21	1.84	0.42
1:T:355:VAL:HB	1:l:437:ASN:HB2	2.01	0.42
1:T:532:ASP:OD1	1:d:384:ASN:ND2	2.43	0.42
1:W:404:MET:C	1:W:405:LEU:HD12	2.45	0.42
1:W:545:PHE:HB2	1:W:560:LEU:HB2	2.02	0.42
1:Y:699:GLU:HB2	1:Y:701:GLN:HE21	1.84	0.42
1:b:313:LEU:HB3	1:b:415:TYR:HB3	2.01	0.42
1:b:404:MET:C	1:b:405:LEU:HD12	2.45	0.42
1:d:433:ASP:N	1:d:433:ASP:OD1	2.50	0.42
1:f:404:MET:C	1:f:405:LEU:HD12	2.45	0.42
1:o:433:ASP:OD1	1:o:433:ASP:N	2.50	0.42
1:s:404:MET:C	1:s:405:LEU:HD12	2.45	0.42
1:t:545:PHE:HB2	1:t:560:LEU:HB2	2.02	0.42
1:u:528:THR:HG21	1:u:563:ASN:HA	2.01	0.42
1:u:545:PHE:HB2	1:u:560:LEU:HB2	2.02	0.42
1:x:699:GLU:HB2	1:x:701:GLN:HE21	1.84	0.42
1:z:253:TYR:HB2	1:z:280:PRO:HA	2.00	0.42
1:1:431:SER:HA	1:1:569:PRO:HB3	2.01	0.42
1:4:445:TYR:HE1	1:4:467:GLN:HG3	1.82	0.42
1:4:545:PHE:HB2	1:4:560:LEU:HB2	2.02	0.42
1:5:433:ASP:OD1	1:5:433:ASP:N	2.50	0.42
1:6:404:MET:C	1:6:405:LEU:HD12	2.45	0.42
1:6:545:PHE:HB2	1:6:560:LEU:HB2	2.02	0.42
1:B:313:LEU:HB3	1:B:415:TYR:HB3	2.01	0.42
1:G:437:ASN:HB2	1:I:355:VAL:HB	2.01	0.42
1:J:290:HIS:CD2	1:J:366:PRO:HG3	2.55	0.42
1:K:545:PHE:HB2	1:K:560:LEU:HB2	2.02	0.42
1:L:404:MET:C	1:L:405:LEU:HD12	2.45	0.42
1:N:528:THR:HG21	1:N:563:ASN:HA	2.01	0.42
1:O:404:MET:C	1:O:405:LEU:HD12	2.45	0.42
1:O:437:ASN:HB2	1:m:355:VAL:HB	2.01	0.42
1:U:313:LEU:HB3	1:U:415:TYR:HB3	2.01	0.42
1:Z:313:LEU:HB3	1:Z:415:TYR:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:313:LEU:HB3	1:f:415:TYR:HB3	2.01	0.42
1:r:545:PHE:HB2	1:r:560:LEU:HB2	2.02	0.42
1:s:313:LEU:HB3	1:s:415:TYR:HB3	2.01	0.42
1:t:433:ASP:OD1	1:t:433:ASP:N	2.50	0.42
1:u:253:TYR:HB2	1:u:280:PRO:HA	2.00	0.42
1:x:437:ASN:HB2	1:y:355:VAL:HB	2.00	0.42
1:z:404:MET:C	1:z:405:LEU:HD12	2.45	0.42
1:1:313:LEU:HB3	1:1:415:TYR:HB3	2.01	0.42
1:2:290:HIS:CD2	1:2:366:PRO:HG3	2.55	0.42
1:A:664:THR:H	1:B:373:MET:CE	2.32	0.42
1:B:290:HIS:CD2	1:B:366:PRO:HG3	2.55	0.42
1:C:487:ARG:NH2	1:C:598:ASN:OD1	2.53	0.42
1:D:384:ASN:ND2	1:P:532:ASP:OD1	2.44	0.42
1:E:275:PHE:HB3	1:E:383:ASN:HB3	2.02	0.42
1:H:404:MET:C	1:H:405:LEU:HD12	2.45	0.42
1:M:404:MET:C	1:M:405:LEU:HD12	2.45	0.42
1:N:323:LYS:NZ	1:N:336:ASN:OD1	2.35	0.42
1:O:528:THR:HG21	1:O:563:ASN:HA	2.01	0.42
1:Q:290:HIS:CD2	1:Q:366:PRO:HG3	2.55	0.42
1:Q:699:GLU:HB2	1:Q:701:GLN:HE21	1.84	0.42
1:S:437:ASN:HB2	1:U:355:VAL:HB	2.01	0.42
1:S:545:PHE:HB2	1:S:560:LEU:HB2	2.02	0.42
1:U:290:HIS:CD2	1:U:366:PRO:HG3	2.55	0.42
1:Z:404:MET:C	1:Z:405:LEU:HD12	2.45	0.42
1:Z:445:TYR:HE1	1:Z:467:GLN:HG3	1.82	0.42
1:b:290:HIS:CD2	1:b:366:PRO:HG3	2.55	0.42
1:b:431:SER:HA	1:b:569:PRO:HB3	2.01	0.42
1:h:404:MET:C	1:h:405:LEU:HD12	2.45	0.42
1:h:699:GLU:HB2	1:h:701:GLN:HE21	1.84	0.42
1:k:290:HIS:CD2	1:k:366:PRO:HG3	2.55	0.42
1:l:528:THR:HG21	1:l:563:ASN:HA	2.01	0.42
1:p:487:ARG:NH2	1:p:598:ASN:OD1	2.53	0.42
1:r:437:ASN:HB2	1:s:355:VAL:HB	2.01	0.42
1:r:699:GLU:HB2	1:r:701:GLN:HE21	1.84	0.42
1:1:290:HIS:CD2	1:1:366:PRO:HG3	2.55	0.42
1:2:431:SER:HA	1:2:569:PRO:HB3	2.01	0.42
1:5:313:LEU:HB3	1:5:415:TYR:HB3	2.01	0.42
1:5:404:MET:C	1:5:405:LEU:HD12	2.45	0.42
1:8:313:LEU:HB3	1:8:415:TYR:HB3	2.01	0.42
1:8:404:MET:C	1:8:405:LEU:HD12	2.45	0.42
1:8:445:TYR:HE1	1:8:467:GLN:HG3	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:VAL:HB	1:M:437:ASN:HB2	2.01	0.42
1:D:290:HIS:CD2	1:D:366:PRO:HG3	2.55	0.42
1:D:503:PHE:CZ	1:P:450:THR:HG21	2.55	0.42
1:E:433:ASP:OD1	1:E:433:ASP:N	2.50	0.42
1:G:433:ASP:OD1	1:G:433:ASP:N	2.50	0.42
1:H:313:LEU:HB3	1:H:415:TYR:HB3	2.01	0.42
1:I:404:MET:C	1:I:405:LEU:HD12	2.45	0.42
1:J:431:SER:HA	1:J:569:PRO:HB3	2.01	0.42
1:N:313:LEU:HB3	1:N:415:TYR:HB3	2.01	0.42
1:N:545:PHE:HB2	1:N:560:LEU:HB2	2.02	0.42
1:P:487:ARG:NH2	1:P:598:ASN:OD1	2.53	0.42
1:S:275:PHE:HB3	1:S:383:ASN:HB3	2.02	0.42
1:S:313:LEU:HB3	1:S:415:TYR:HB3	2.01	0.42
1:S:528:THR:HG21	1:S:563:ASN:HA	2.01	0.42
1:V:487:ARG:NH2	1:V:598:ASN:OD1	2.53	0.42
1:W:699:GLU:HB2	1:W:701:GLN:HE21	1.84	0.42
1:Z:699:GLU:HB2	1:Z:701:GLN:HE21	1.84	0.42
1:c:404:MET:C	1:c:405:LEU:HD12	2.45	0.42
1:e:404:MET:C	1:e:405:LEU:HD12	2.45	0.42
1:f:290:HIS:CD2	1:f:366:PRO:HG3	2.55	0.42
1:f:431:SER:HA	1:f:569:PRO:HB3	2.01	0.42
1:g:404:MET:C	1:g:405:LEU:HD12	2.45	0.42
1:i:355:VAL:HB	1:k:437:ASN:HB2	2.01	0.42
1:i:545:PHE:HB2	1:i:560:LEU:HB2	2.02	0.42
1:i:699:GLU:HB2	1:i:701:GLN:HE21	1.84	0.42
1:m:313:LEU:HB3	1:m:415:TYR:HB3	2.01	0.42
1:o:404:MET:C	1:o:405:LEU:HD12	2.45	0.42
1:p:404:MET:C	1:p:405:LEU:HD12	2.45	0.42
1:r:275:PHE:HB3	1:r:383:ASN:HB3	2.02	0.42
1:r:313:LEU:HB3	1:r:415:TYR:HB3	2.01	0.42
1:s:290:HIS:CD2	1:s:366:PRO:HG3	2.55	0.42
1:u:404:MET:C	1:u:405:LEU:HD12	2.45	0.42
1:w:275:PHE:HB3	1:w:383:ASN:HB3	2.02	0.42
1:x:290:HIS:CD2	1:x:366:PRO:HG3	2.55	0.42
1:2:404:MET:C	1:2:405:LEU:HD12	2.45	0.42
1:8:545:PHE:HB2	1:8:560:LEU:HB2	2.02	0.42
1:8:699:GLU:HB2	1:8:701:GLN:HE21	1.84	0.42
1:A:287:ASN:O	1:A:618:PRO:HA	2.20	0.42
1:B:404:MET:C	1:B:405:LEU:HD12	2.45	0.42
1:C:290:HIS:CD2	1:C:366:PRO:HG3	2.55	0.42
1:E:701:GLN:H	1:P:703:THR:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:290:HIS:CD2	1:F:366:PRO:HG3	2.55	0.42
1:F:528:THR:HG21	1:F:563:ASN:HA	2.01	0.42
1:G:290:HIS:CD2	1:G:366:PRO:HG3	2.55	0.42
1:G:313:LEU:HB3	1:G:415:TYR:HB3	2.01	0.42
1:H:287:ASN:O	1:H:618:PRO:HA	2.20	0.42
1:J:275:PHE:HB3	1:J:383:ASN:HB3	2.02	0.42
1:M:287:ASN:O	1:M:618:PRO:HA	2.20	0.42
1:M:699:GLU:HB2	1:M:701:GLN:HE21	1.84	0.42
1:N:290:HIS:CD2	1:N:366:PRO:HG3	2.55	0.42
1:Q:287:ASN:O	1:Q:618:PRO:HA	2.20	0.42
1:R:290:HIS:CD2	1:R:366:PRO:HG3	2.55	0.42
1:R:404:MET:C	1:R:405:LEU:HD12	2.45	0.42
1:R:528:THR:HG21	1:R:563:ASN:HA	2.01	0.42
1:S:699:GLU:HB2	1:S:701:GLN:HE21	1.84	0.42
1:T:313:LEU:HB3	1:T:415:TYR:HB3	2.01	0.42
1:V:404:MET:C	1:V:405:LEU:HD12	2.45	0.42
1:X:404:MET:C	1:X:405:LEU:HD12	2.45	0.42
1:Y:290:HIS:CD2	1:Y:366:PRO:HG3	2.55	0.42
1:Z:545:PHE:HB2	1:Z:560:LEU:HB2	2.02	0.42
1:b:487:ARG:NH2	1:b:598:ASN:OD1	2.53	0.42
1:d:290:HIS:CD2	1:d:366:PRO:HG3	2.55	0.42
1:f:487:ARG:NH2	1:f:598:ASN:OD1	2.53	0.42
1:g:290:HIS:CD2	1:g:366:PRO:HG3	2.55	0.42
1:g:313:LEU:HB3	1:g:415:TYR:HB3	2.01	0.42
1:g:355:VAL:HB	1:h:437:ASN:HB2	2.01	0.42
1:i:313:LEU:HB3	1:i:415:TYR:HB3	2.01	0.42
1:j:404:MET:C	1:j:405:LEU:HD12	2.45	0.42
1:j:487:ARG:NH2	1:j:598:ASN:OD1	2.53	0.42
1:n:290:HIS:CD2	1:n:366:PRO:HG3	2.55	0.42
1:q:433:ASP:OD1	1:q:433:ASP:N	2.50	0.42
1:r:528:THR:HG21	1:r:563:ASN:HA	2.01	0.42
1:t:290:HIS:CD2	1:t:366:PRO:HG3	2.55	0.42
1:v:287:ASN:O	1:v:618:PRO:HA	2.20	0.42
1:w:404:MET:C	1:w:405:LEU:HD12	2.45	0.42
1:x:287:ASN:O	1:x:618:PRO:HA	2.20	0.42
1:y:290:HIS:CD2	1:y:366:PRO:HG3	2.55	0.42
1:z:545:PHE:HB2	1:z:560:LEU:HB2	2.02	0.42
1:1:404:MET:C	1:1:405:LEU:HD12	2.45	0.42
1:1:437:ASN:HB2	1:2:355:VAL:HB	2.01	0.42
1:2:275:PHE:HB3	1:2:383:ASN:HB3	2.02	0.42
1:5:287:ASN:O	1:5:618:PRO:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:699:GLU:HB2	1:6:701:GLN:HE21	1.84	0.42
1:7:290:HIS:CD2	1:7:366:PRO:HG3	2.55	0.42
1:7:545:PHE:HB2	1:7:560:LEU:HB2	2.02	0.42
1:B:323:LYS:NZ	1:B:336:ASN:OD1	2.35	0.42
1:B:528:THR:HG21	1:B:563:ASN:HA	2.01	0.42
1:C:404:MET:C	1:C:405:LEU:HD12	2.45	0.42
1:D:431:SER:HA	1:D:569:PRO:HB3	2.01	0.42
1:E:487:ARG:NH2	1:E:598:ASN:OD1	2.53	0.42
1:F:275:PHE:HB3	1:F:383:ASN:HB3	2.02	0.42
1:G:275:PHE:HB3	1:G:383:ASN:HB3	2.02	0.42
1:G:699:GLU:HB2	1:G:701:GLN:HE21	1.84	0.42
1:H:545:PHE:HB2	1:H:560:LEU:HB2	2.02	0.42
1:K:313:LEU:HB3	1:K:415:TYR:HB3	2.01	0.42
1:L:545:PHE:HB2	1:L:560:LEU:HB2	2.02	0.42
1:N:404:MET:C	1:N:405:LEU:HD12	2.45	0.42
1:O:431:SER:HA	1:O:569:PRO:HB3	2.01	0.42
1:Q:275:PHE:HB3	1:Q:383:ASN:HB3	2.02	0.42
1:R:699:GLU:HB2	1:R:701:GLN:HE21	1.84	0.42
1:T:431:SER:HA	1:T:569:PRO:HB3	2.01	0.42
1:T:545:PHE:HB2	1:T:560:LEU:HB2	2.02	0.42
1:V:699:GLU:HB2	1:V:701:GLN:HE21	1.84	0.42
1:Y:545:PHE:HB2	1:Y:560:LEU:HB2	2.02	0.42
1:a:287:ASN:O	1:a:618:PRO:HA	2.20	0.42
1:c:431:SER:HA	1:c:569:PRO:HB3	2.01	0.42
1:e:290:HIS:CD2	1:e:366:PRO:HG3	2.55	0.42
1:m:431:SER:HA	1:m:569:PRO:HB3	2.01	0.42
1:m:545:PHE:HB2	1:m:560:LEU:HB2	2.02	0.42
1:q:290:HIS:CD2	1:q:366:PRO:HG3	2.55	0.42
1:q:528:THR:HG21	1:q:563:ASN:HA	2.01	0.42
1:s:275:PHE:HB3	1:s:383:ASN:HB3	2.02	0.42
1:t:275:PHE:HB3	1:t:383:ASN:HB3	2.02	0.42
1:t:313:LEU:HB3	1:t:415:TYR:HB3	2.01	0.42
1:v:290:HIS:CD2	1:v:366:PRO:HG3	2.55	0.42
1:v:313:LEU:HB3	1:v:415:TYR:HB3	2.01	0.42
1:w:433:ASP:N	1:w:433:ASP:OD1	2.50	0.42
1:w:487:ARG:NH2	1:w:598:ASN:OD1	2.53	0.42
1:y:275:PHE:HB3	1:y:383:ASN:HB3	2.02	0.42
1:1:528:THR:HG21	1:1:563:ASN:HA	2.01	0.42
1:3:287:ASN:O	1:3:618:PRO:HA	2.20	0.42
1:4:323:LYS:NZ	1:4:336:ASN:OD1	2.35	0.42
1:8:487:ARG:NH2	1:8:598:ASN:OD1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:HIS:CD2	1:A:366:PRO:HG3	2.55	0.42
1:A:545:PHE:HB2	1:A:560:LEU:HB2	2.02	0.42
1:C:313:LEU:HB3	1:C:415:TYR:HB3	2.01	0.42
1:D:699:GLU:HB2	1:D:701:GLN:HE21	1.84	0.42
1:E:404:MET:C	1:E:405:LEU:HD12	2.45	0.42
1:E:437:ASN:HB2	1:Q:355:VAL:HB	2.00	0.42
1:I:290:HIS:CD2	1:I:366:PRO:HG3	2.55	0.42
1:J:404:MET:C	1:J:405:LEU:HD12	2.45	0.42
1:J:427:ALA:O	1:J:734:THR:HA	2.20	0.42
1:K:275:PHE:HB3	1:K:383:ASN:HB3	2.02	0.42
1:K:426:TYR:HE1	1:K:428:HIS:CE1	2.38	0.42
1:P:404:MET:C	1:P:405:LEU:HD12	2.45	0.42
1:Q:510:LYS:HD2	1:Q:517:ASN:HB3	2.02	0.42
1:R:431:SER:HA	1:R:569:PRO:HB3	2.01	0.42
1:R:433:ASP:OD1	1:R:433:ASP:N	2.50	0.42
1:S:287:ASN:O	1:S:618:PRO:HA	2.20	0.42
1:T:404:MET:C	1:T:405:LEU:HD12	2.45	0.42
1:U:275:PHE:HB3	1:U:383:ASN:HB3	2.02	0.42
1:Z:487:ARG:NH2	1:Z:598:ASN:OD1	2.53	0.42
1:Z:510:LYS:HD2	1:Z:517:ASN:HB3	2.02	0.42
1:c:290:HIS:CD2	1:c:366:PRO:HG3	2.55	0.42
1:e:431:SER:HA	1:e:569:PRO:HB3	2.01	0.42
1:h:287:ASN:O	1:h:618:PRO:HA	2.20	0.42
1:i:290:HIS:CD2	1:i:366:PRO:HG3	2.55	0.42
1:i:404:MET:C	1:i:405:LEU:HD12	2.45	0.42
1:k:431:SER:HA	1:k:569:PRO:HB3	2.01	0.42
1:l:426:TYR:HE1	1:l:428:HIS:CE1	2.38	0.42
1:l:431:SER:HA	1:l:569:PRO:HB3	2.01	0.42
1:q:404:MET:C	1:q:405:LEU:HD12	2.45	0.42
1:q:699:GLU:HB2	1:q:701:GLN:HE21	1.84	0.42
1:r:287:ASN:O	1:r:618:PRO:HA	2.20	0.42
1:w:437:ASN:HB2	1:x:355:VAL:HB	2.01	0.42
1:x:275:PHE:HB3	1:x:383:ASN:HB3	2.02	0.42
1:y:431:SER:HA	1:y:569:PRO:HB3	2.01	0.42
1:y:528:THR:HG21	1:y:563:ASN:HA	2.01	0.42
1:z:290:HIS:CD2	1:z:366:PRO:HG3	2.55	0.42
1:3:510:LYS:HD2	1:3:517:ASN:HB3	2.02	0.42
1:3:545:PHE:HB2	1:3:560:LEU:HB2	2.02	0.42
1:4:275:PHE:HB3	1:4:383:ASN:HB3	2.02	0.42
1:4:313:LEU:HB3	1:4:415:TYR:HB3	2.01	0.42
1:5:545:PHE:HB2	1:5:560:LEU:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:510:LYS:HD2	1:8:517:ASN:HB3	2.02	0.42
1:A:313:LEU:HD13	1:A:684:ILE:HG12	2.03	0.41
1:A:313:LEU:HB3	1:A:415:TYR:HB3	2.01	0.41
1:B:437:ASN:HB2	1:J:355:VAL:HB	2.01	0.41
1:B:699:GLU:HB2	1:B:701:GLN:HE21	1.84	0.41
1:E:287:ASN:O	1:E:618:PRO:HA	2.20	0.41
1:F:431:SER:HA	1:F:569:PRO:HB3	2.01	0.41
1:F:545:PHE:HB2	1:F:560:LEU:HB2	2.02	0.41
1:J:510:LYS:HD2	1:J:517:ASN:HB3	2.02	0.41
1:J:699:GLU:HB2	1:J:701:GLN:HE21	1.84	0.41
1:L:426:TYR:HE1	1:L:428:HIS:CE1	2.38	0.41
1:L:487:ARG:NH2	1:L:598:ASN:OD1	2.53	0.41
1:M:426:TYR:HE1	1:M:428:HIS:CE1	2.38	0.41
1:O:426:TYR:HE1	1:O:428:HIS:CE1	2.38	0.41
1:P:275:PHE:HB3	1:P:383:ASN:HB3	2.02	0.41
1:P:313:LEU:HD13	1:P:684:ILE:HG12	2.02	0.41
1:Q:288:ARG:CZ	1:Q:290:HIS:CE1	3.03	0.41
1:R:287:ASN:O	1:R:618:PRO:HA	2.20	0.41
1:R:313:LEU:HD13	1:R:684:ILE:HG12	2.02	0.41
1:R:631:HIS:ND1	1:R:631:HIS:O	2.53	0.41
1:S:290:HIS:CD2	1:S:366:PRO:HG3	2.55	0.41
1:T:290:HIS:CD2	1:T:366:PRO:HG3	2.55	0.41
1:T:433:ASP:N	1:T:433:ASP:OD1	2.50	0.41
1:T:631:HIS:O	1:T:631:HIS:ND1	2.53	0.41
1:U:699:GLU:HB2	1:U:701:GLN:HE21	1.84	0.41
1:X:510:LYS:HD2	1:X:517:ASN:HB3	2.02	0.41
1:a:290:HIS:HD2	1:a:366:PRO:CA	2.33	0.41
1:a:290:HIS:CD2	1:a:366:PRO:HG3	2.55	0.41
1:a:510:LYS:HD2	1:a:517:ASN:HB3	2.02	0.41
1:a:528:THR:HG21	1:a:563:ASN:HA	2.01	0.41
1:a:545:PHE:HB2	1:a:560:LEU:HB2	2.02	0.41
1:b:275:PHE:HB3	1:b:383:ASN:HB3	2.02	0.41
1:b:510:LYS:HD2	1:b:517:ASN:HB3	2.02	0.41
1:f:275:PHE:HB3	1:f:383:ASN:HB3	2.02	0.41
1:k:287:ASN:O	1:k:618:PRO:HA	2.20	0.41
1:m:290:HIS:CD2	1:m:366:PRO:HG3	2.55	0.41
1:m:404:MET:C	1:m:405:LEU:HD12	2.45	0.41
1:n:487:ARG:NH2	1:n:598:ASN:OD1	2.53	0.41
1:q:631:HIS:ND1	1:q:631:HIS:O	2.53	0.41
1:r:631:HIS:ND1	1:r:631:HIS:O	2.53	0.41
1:t:699:GLU:HB2	1:t:701:GLN:HE21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:290:HIS:CD2	1:u:366:PRO:HG3	2.55	0.41
1:v:426:TYR:HE1	1:v:428:HIS:CE1	2.38	0.41
1:v:545:PHE:HB2	1:v:560:LEU:HB2	2.02	0.41
1:w:510:LYS:HD2	1:w:517:ASN:HB3	2.02	0.41
1:x:510:LYS:HD2	1:x:517:ASN:HB3	2.02	0.41
1:y:545:PHE:HB2	1:y:560:LEU:HB2	2.02	0.41
1:z:426:TYR:HE1	1:z:428:HIS:CE1	2.38	0.41
1:1:510:LYS:HD2	1:1:517:ASN:HB3	2.02	0.41
1:1:699:GLU:HB2	1:1:701:GLN:HE21	1.84	0.41
1:2:313:LEU:HB3	1:2:415:TYR:HB3	2.01	0.41
1:2:427:ALA:O	1:2:734:THR:HA	2.20	0.41
1:2:510:LYS:HD2	1:2:517:ASN:HB3	2.02	0.41
1:3:290:HIS:HD2	1:3:366:PRO:CA	2.33	0.41
1:3:290:HIS:CD2	1:3:366:PRO:HG3	2.55	0.41
1:3:528:THR:HG21	1:3:563:ASN:HA	2.01	0.41
1:4:426:TYR:HE1	1:4:428:HIS:CE1	2.38	0.41
1:8:275:PHE:HB3	1:8:383:ASN:HB3	2.02	0.41
1:A:426:TYR:HE1	1:A:428:HIS:CE1	2.38	0.41
1:A:445:TYR:HE1	1:A:467:GLN:HG3	1.82	0.41
1:A:528:THR:HG21	1:A:563:ASN:HA	2.01	0.41
1:C:426:TYR:HE1	1:C:428:HIS:CE1	2.38	0.41
1:C:581:VAL:HG23	1:b:487:ARG:O	2.21	0.41
1:D:287:ASN:O	1:D:618:PRO:HA	2.20	0.41
1:D:426:TYR:HE1	1:D:428:HIS:CE1	2.38	0.41
1:G:290:HIS:HD2	1:G:366:PRO:CA	2.33	0.41
1:H:290:HIS:CD2	1:H:366:PRO:HG3	2.55	0.41
1:H:510:LYS:HD2	1:H:517:ASN:HB3	2.03	0.41
1:I:631:HIS:ND1	1:I:631:HIS:O	2.53	0.41
1:K:323:LYS:NZ	1:K:336:ASN:OD1	2.35	0.41
1:K:427:ALA:O	1:K:734:THR:HA	2.21	0.41
1:K:585:LEU:HD23	1:a:490:ARG:NH1	2.36	0.41
1:L:290:HIS:CD2	1:L:366:PRO:HG3	2.55	0.41
1:L:631:HIS:ND1	1:L:631:HIS:O	2.53	0.41
1:N:631:HIS:ND1	1:N:631:HIS:O	2.53	0.41
1:O:313:LEU:HD13	1:O:684:ILE:HG12	2.03	0.41
1:Q:487:ARG:NH2	1:Q:598:ASN:OD1	2.53	0.41
1:R:510:LYS:HD2	1:R:517:ASN:HB3	2.02	0.41
1:S:631:HIS:ND1	1:S:631:HIS:O	2.53	0.41
1:V:287:ASN:O	1:V:618:PRO:HA	2.20	0.41
1:X:699:GLU:HB2	1:X:701:GLN:HE21	1.84	0.41
1:Z:275:PHE:HB3	1:Z:383:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:487:ARG:O	1:3:581:VAL:HG23	2.21	0.41
1:a:581:VAL:HG23	1:8:487:ARG:O	2.21	0.41
1:b:426:TYR:HE1	1:b:428:HIS:CE1	2.38	0.41
1:c:313:LEU:HB3	1:c:415:TYR:HB3	2.01	0.41
1:d:313:LEU:HB3	1:d:415:TYR:HB3	2.01	0.41
1:d:487:ARG:NH2	1:d:598:ASN:OD1	2.53	0.41
1:f:288:ARG:CZ	1:f:290:HIS:CE1	3.03	0.41
1:f:426:TYR:HE1	1:f:428:HIS:CE1	2.38	0.41
1:f:487:ARG:O	1:g:581:VAL:HG23	2.21	0.41
1:f:510:LYS:HD2	1:f:517:ASN:HB3	2.02	0.41
1:g:426:TYR:HE1	1:g:428:HIS:CE1	2.38	0.41
1:h:426:TYR:HE1	1:h:428:HIS:CE1	2.38	0.41
1:j:258:TYR:O	1:l:720:GLY:HA2	2.20	0.41
1:j:313:LEU:HD13	1:j:684:ILE:HG12	2.02	0.41
1:k:313:LEU:HB3	1:k:415:TYR:HB3	2.01	0.41
1:k:699:GLU:HB2	1:k:701:GLN:HE21	1.84	0.41
1:m:585:LEU:HD23	1:n:490:ARG:NH1	2.36	0.41
1:n:287:ASN:O	1:n:618:PRO:HA	2.20	0.41
1:n:313:LEU:HB3	1:n:415:TYR:HB3	2.01	0.41
1:o:510:LYS:HD2	1:o:517:ASN:HB3	2.02	0.41
1:o:699:GLU:HB2	1:o:701:GLN:HE21	1.84	0.41
1:p:699:GLU:HB2	1:p:701:GLN:HE21	1.84	0.41
1:q:287:ASN:O	1:q:618:PRO:HA	2.20	0.41
1:q:313:LEU:HD13	1:q:684:ILE:HG12	2.03	0.41
1:q:431:SER:HA	1:q:569:PRO:HB3	2.01	0.41
1:q:510:LYS:HD2	1:q:517:ASN:HB3	2.02	0.41
1:r:290:HIS:CD2	1:r:366:PRO:HG3	2.55	0.41
1:r:404:MET:C	1:r:405:LEU:HD12	2.45	0.41
1:s:699:GLU:HB2	1:s:701:GLN:HE21	1.84	0.41
1:u:631:HIS:ND1	1:u:631:HIS:O	2.53	0.41
1:v:313:LEU:HD13	1:v:684:ILE:HG12	2.03	0.41
1:w:287:ASN:O	1:w:618:PRO:HA	2.20	0.41
1:x:288:ARG:CZ	1:x:290:HIS:CE1	3.03	0.41
1:x:426:TYR:HE1	1:x:428:HIS:CE1	2.38	0.41
1:z:487:ARG:NH2	1:z:598:ASN:OD1	2.53	0.41
1:z:631:HIS:ND1	1:z:631:HIS:O	2.53	0.41
1:2:699:GLU:HB2	1:2:701:GLN:HE21	1.84	0.41
1:4:427:ALA:O	1:4:734:THR:HA	2.21	0.41
1:5:510:LYS:HD2	1:5:517:ASN:HB3	2.03	0.41
1:B:510:LYS:HD2	1:B:517:ASN:HB3	2.03	0.41
1:D:258:TYR:O	1:E:720:GLY:HA2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:313:LEU:HB3	1:D:415:TYR:HB3	2.01	0.41
1:D:487:ARG:NH2	1:D:598:ASN:OD1	2.53	0.41
1:E:487:ARG:O	1:F:581:VAL:HG23	2.21	0.41
1:E:510:LYS:HD2	1:E:517:ASN:HB3	2.02	0.41
1:H:581:VAL:HG23	1:W:487:ARG:O	2.21	0.41
1:H:631:HIS:ND1	1:H:631:HIS:O	2.53	0.41
1:J:313:LEU:HB3	1:J:415:TYR:HB3	2.01	0.41
1:N:466:TYR:HA	1:P:552:ASN:O	2.21	0.41
1:P:287:ASN:O	1:P:618:PRO:HA	2.20	0.41
1:P:290:HIS:HD2	1:P:366:PRO:CA	2.33	0.41
1:P:699:GLU:HB2	1:P:701:GLN:HE21	1.84	0.41
1:Q:426:TYR:HE1	1:Q:428:HIS:CE1	2.38	0.41
1:R:288:ARG:CZ	1:R:290:HIS:CE1	3.03	0.41
1:R:427:ALA:O	1:R:734:THR:HA	2.21	0.41
1:S:404:MET:C	1:S:405:LEU:HD12	2.45	0.41
1:S:487:ARG:NH2	1:S:598:ASN:OD1	2.53	0.41
1:S:581:VAL:HG23	1:U:487:ARG:O	2.21	0.41
1:T:585:LEU:HD23	1:d:490:ARG:NH1	2.36	0.41
1:V:585:LEU:HD23	1:e:490:ARG:NH1	2.36	0.41
1:X:355:VAL:HB	1:e:437:ASN:HB2	2.00	0.41
1:X:631:HIS:ND1	1:X:631:HIS:O	2.53	0.41
1:Y:404:MET:C	1:Y:405:LEU:HD12	2.45	0.41
1:a:323:LYS:NZ	1:a:336:ASN:OD1	2.35	0.41
1:a:404:MET:C	1:a:405:LEU:HD12	2.45	0.41
1:a:426:TYR:HE1	1:a:428:HIS:CE1	2.38	0.41
1:b:287:ASN:O	1:b:618:PRO:HA	2.20	0.41
1:b:288:ARG:CZ	1:b:290:HIS:CE1	3.03	0.41
1:b:631:HIS:ND1	1:b:631:HIS:O	2.53	0.41
1:c:426:TYR:HE1	1:c:428:HIS:CE1	2.38	0.41
1:d:287:ASN:O	1:d:618:PRO:HA	2.20	0.41
1:d:545:PHE:HB2	1:d:560:LEU:HB2	2.02	0.41
1:e:313:LEU:HB3	1:e:415:TYR:HB3	2.01	0.41
1:e:426:TYR:HE1	1:e:428:HIS:CE1	2.38	0.41
1:i:437:ASN:HB2	1:j:355:VAL:HB	2.02	0.41
1:i:631:HIS:ND1	1:i:631:HIS:O	2.54	0.41
1:j:275:PHE:HB3	1:j:383:ASN:HB3	2.02	0.41
1:j:290:HIS:HD2	1:j:366:PRO:CA	2.33	0.41
1:k:426:TYR:HE1	1:k:428:HIS:CE1	2.38	0.41
1:k:487:ARG:NH2	1:k:598:ASN:OD1	2.53	0.41
1:k:510:LYS:HD2	1:k:517:ASN:HB3	2.02	0.41
1:m:426:TYR:HE1	1:m:428:HIS:CE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:631:HIS:ND1	1:m:631:HIS:O	2.54	0.41
1:n:545:PHE:HB2	1:n:560:LEU:HB2	2.02	0.41
1:o:631:HIS:ND1	1:o:631:HIS:O	2.53	0.41
1:p:287:ASN:O	1:p:618:PRO:HA	2.20	0.41
1:q:427:ALA:O	1:q:734:THR:HA	2.20	0.41
1:r:487:ARG:NH2	1:r:598:ASN:OD1	2.53	0.41
1:r:581:VAL:HG23	1:s:487:ARG:O	2.21	0.41
1:t:290:HIS:HD2	1:t:366:PRO:CA	2.33	0.41
1:t:431:SER:HA	1:t:569:PRO:HB3	2.01	0.41
1:t:581:VAL:HG23	1:u:487:ARG:O	2.21	0.41
1:x:487:ARG:NH2	1:x:598:ASN:OD1	2.53	0.41
1:y:287:ASN:O	1:y:618:PRO:HA	2.20	0.41
1:y:510:LYS:HD2	1:y:517:ASN:HB3	2.02	0.41
1:z:287:ASN:O	1:z:618:PRO:HA	2.20	0.41
1:1:487:ARG:NH2	1:1:598:ASN:OD1	2.53	0.41
1:3:426:TYR:HE1	1:3:428:HIS:CE1	2.38	0.41
1:3:490:ARG:NH1	1:4:585:LEU:HD23	2.36	0.41
1:4:288:ARG:CZ	1:4:290:HIS:CE1	3.03	0.41
1:5:290:HIS:CD2	1:5:366:PRO:HG3	2.55	0.41
1:5:313:LEU:HD13	1:5:684:ILE:HG12	2.02	0.41
1:5:581:VAL:HG23	1:6:487:ARG:O	2.21	0.41
1:5:631:HIS:ND1	1:5:631:HIS:O	2.53	0.41
1:8:426:TYR:HE1	1:8:428:HIS:CE1	2.38	0.41
1:A:404:MET:C	1:A:405:LEU:HD12	2.45	0.41
1:B:355:VAL:HB	1:L:437:ASN:HB2	2.01	0.41
1:B:426:TYR:HE1	1:B:428:HIS:CE1	2.38	0.41
1:B:487:ARG:O	1:L:581:VAL:HG23	2.21	0.41
1:B:487:ARG:NH2	1:B:598:ASN:OD1	2.53	0.41
1:C:545:PHE:HB2	1:C:560:LEU:HB2	2.02	0.41
1:D:510:LYS:HD2	1:D:517:ASN:HB3	2.03	0.41
1:E:581:VAL:HG23	1:Q:487:ARG:O	2.21	0.41
1:F:287:ASN:O	1:F:618:PRO:HA	2.20	0.41
1:G:445:TYR:HE1	1:G:467:GLN:HG3	1.82	0.41
1:G:581:VAL:HG23	1:I:487:ARG:O	2.21	0.41
1:H:275:PHE:HB3	1:H:383:ASN:HB3	2.02	0.41
1:H:313:LEU:HD13	1:H:684:ILE:HG12	2.02	0.41
1:J:290:HIS:HD2	1:J:366:PRO:CA	2.33	0.41
1:K:404:MET:C	1:K:405:LEU:HD12	2.45	0.41
1:K:510:LYS:HD2	1:K:517:ASN:HB3	2.02	0.41
1:K:581:VAL:HG23	1:a:487:ARG:O	2.20	0.41
1:L:287:ASN:O	1:L:618:PRO:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:290:HIS:CD2	1:M:366:PRO:HG3	2.55	0.41
1:P:290:HIS:CD2	1:P:366:PRO:HG3	2.55	0.41
1:P:426:TYR:HE1	1:P:428:HIS:CE1	2.38	0.41
1:Q:313:LEU:HD13	1:Q:684:ILE:HG12	2.02	0.41
1:S:427:ALA:O	1:S:734:THR:HA	2.20	0.41
1:T:426:TYR:HE1	1:T:428:HIS:CE1	2.38	0.41
1:W:427:ALA:O	1:W:734:THR:HA	2.21	0.41
1:W:510:LYS:HD2	1:W:517:ASN:HB3	2.02	0.41
1:X:487:ARG:O	1:e:581:VAL:HG23	2.21	0.41
1:Z:426:TYR:HE1	1:Z:428:HIS:CE1	2.38	0.41
1:Z:631:HIS:ND1	1:Z:631:HIS:O	2.54	0.41
1:c:437:ASN:HB2	1:o:355:VAL:HB	2.00	0.41
1:c:490:ARG:NH1	1:p:585:LEU:HD23	2.36	0.41
1:c:581:VAL:HG23	1:o:487:ARG:O	2.21	0.41
1:d:581:VAL:HG23	1:l:487:ARG:O	2.21	0.41
1:f:287:ASN:O	1:f:618:PRO:HA	2.20	0.41
1:f:631:HIS:ND1	1:f:631:HIS:O	2.53	0.41
1:h:290:HIS:CD2	1:h:366:PRO:HG3	2.55	0.41
1:j:287:ASN:O	1:j:618:PRO:HA	2.20	0.41
1:j:290:HIS:CD2	1:j:366:PRO:HG3	2.55	0.41
1:j:426:TYR:HE1	1:j:428:HIS:CE1	2.38	0.41
1:l:313:LEU:HD13	1:l:684:ILE:HG12	2.03	0.41
1:m:433:ASP:N	1:m:433:ASP:OD1	2.50	0.41
1:p:425:SER:O	1:p:731:ARG:HA	2.21	0.41
1:p:631:HIS:ND1	1:p:631:HIS:O	2.54	0.41
1:q:288:ARG:CZ	1:q:290:HIS:CE1	3.03	0.41
1:q:545:PHE:HB2	1:q:560:LEU:HB2	2.02	0.41
1:s:431:SER:HA	1:s:569:PRO:HB3	2.01	0.41
1:t:287:ASN:O	1:t:618:PRO:HA	2.20	0.41
1:u:581:VAL:HG23	1:v:487:ARG:O	2.21	0.41
1:v:528:THR:HG21	1:v:563:ASN:HA	2.01	0.41
1:w:487:ARG:O	1:y:581:VAL:HG23	2.21	0.41
1:w:581:VAL:HG23	1:x:487:ARG:O	2.21	0.41
1:x:313:LEU:HD13	1:x:684:ILE:HG12	2.02	0.41
1:z:581:VAL:HG23	1:1:487:ARG:O	2.21	0.41
1:1:426:TYR:HE1	1:1:428:HIS:CE1	2.38	0.41
1:2:290:HIS:HD2	1:2:366:PRO:CA	2.33	0.41
1:2:528:THR:HG21	1:2:563:ASN:HA	2.01	0.41
1:2:545:PHE:HB2	1:2:560:LEU:HB2	2.02	0.41
1:3:404:MET:C	1:3:405:LEU:HD12	2.45	0.41
1:3:487:ARG:O	1:4:581:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:510:LYS:HD2	1:4:517:ASN:HB3	2.02	0.41
1:4:699:GLU:HB2	1:4:701:GLN:HE21	1.84	0.41
1:5:275:PHE:HB3	1:5:383:ASN:HB3	2.02	0.41
1:6:427:ALA:O	1:6:734:THR:HA	2.21	0.41
1:7:404:MET:C	1:7:405:LEU:HD12	2.45	0.41
1:B:287:ASN:O	1:B:618:PRO:HA	2.20	0.41
1:D:427:ALA:O	1:D:734:THR:HA	2.21	0.41
1:E:290:HIS:CD2	1:E:366:PRO:HG3	2.55	0.41
1:E:426:TYR:HE1	1:E:428:HIS:CE1	2.38	0.41
1:E:545:PHE:HB2	1:E:560:LEU:HB2	2.02	0.41
1:F:510:LYS:HD2	1:F:517:ASN:HB3	2.02	0.41
1:G:287:ASN:O	1:G:618:PRO:HA	2.20	0.41
1:G:431:SER:HA	1:G:569:PRO:HB3	2.01	0.41
1:G:720:GLY:HA2	1:W:258:TYR:O	2.21	0.41
1:H:425:SER:O	1:H:731:ARG:HA	2.21	0.41
1:I:313:LEU:HD13	1:I:684:ILE:HG12	2.02	0.41
1:I:427:ALA:O	1:I:734:THR:HA	2.21	0.41
1:J:545:PHE:HB2	1:J:560:LEU:HB2	2.02	0.41
1:N:288:ARG:CZ	1:N:290:HIS:CE1	3.03	0.41
1:O:287:ASN:O	1:O:618:PRO:HA	2.20	0.41
1:O:487:ARG:O	1:n:581:VAL:HG23	2.21	0.41
1:Q:425:SER:O	1:Q:731:ARG:HA	2.21	0.41
1:R:545:PHE:HB2	1:R:560:LEU:HB2	2.02	0.41
1:S:290:HIS:HD2	1:S:366:PRO:CA	2.33	0.41
1:T:313:LEU:HD13	1:T:684:ILE:HG12	2.03	0.41
1:U:431:SER:HA	1:U:569:PRO:HB3	2.01	0.41
1:V:290:HIS:HD2	1:V:366:PRO:CA	2.34	0.41
1:V:425:SER:O	1:V:731:ARG:HA	2.21	0.41
1:V:427:ALA:O	1:V:734:THR:HA	2.21	0.41
1:V:487:ARG:O	1:X:581:VAL:HG23	2.21	0.41
1:V:545:PHE:HB2	1:V:560:LEU:HB2	2.02	0.41
1:V:631:HIS:ND1	1:V:631:HIS:O	2.54	0.41
1:W:425:SER:O	1:W:731:ARG:HA	2.21	0.41
1:Y:287:ASN:O	1:Y:618:PRO:HA	2.20	0.41
1:Y:426:TYR:HE1	1:Y:428:HIS:CE1	2.39	0.41
1:Z:290:HIS:CD2	1:Z:366:PRO:HG3	2.55	0.41
1:b:545:PHE:HB2	1:b:560:LEU:HB2	2.02	0.41
1:g:545:PHE:HB2	1:g:560:LEU:HB2	2.02	0.41
1:i:288:ARG:CZ	1:i:290:HIS:CE1	3.03	0.41
1:j:510:LYS:HD2	1:j:517:ASN:HB3	2.02	0.41
1:j:699:GLU:HB2	1:j:701:GLN:HE21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:427:ALA:O	1:k:734:THR:HA	2.20	0.41
1:l:290:HIS:CD2	1:l:366:PRO:HG3	2.55	0.41
1:m:313:LEU:HD13	1:m:684:ILE:HG12	2.02	0.41
1:n:275:PHE:HB3	1:n:383:ASN:HB3	2.02	0.41
1:n:431:SER:HA	1:n:569:PRO:HB3	2.01	0.41
1:o:287:ASN:O	1:o:618:PRO:HA	2.20	0.41
1:o:581:VAL:HG23	1:p:487:ARG:O	2.21	0.41
1:p:290:HIS:HD2	1:p:366:PRO:CA	2.34	0.41
1:p:427:ALA:O	1:p:734:THR:HA	2.20	0.41
1:r:290:HIS:HD2	1:r:366:PRO:CA	2.33	0.41
1:r:313:LEU:HD13	1:r:684:ILE:HG12	2.03	0.41
1:r:427:ALA:O	1:r:734:THR:HA	2.20	0.41
1:t:425:SER:O	1:t:731:ARG:HA	2.21	0.41
1:t:426:TYR:HE1	1:t:428:HIS:CE1	2.38	0.41
1:t:720:GLY:HA2	1:6:258:TYR:O	2.21	0.41
1:u:275:PHE:HB3	1:u:383:ASN:HB3	2.02	0.41
1:u:427:ALA:O	1:u:734:THR:HA	2.21	0.41
1:w:290:HIS:CD2	1:w:366:PRO:HG3	2.55	0.41
1:w:545:PHE:HB2	1:w:560:LEU:HB2	2.02	0.41
1:w:631:HIS:O	1:w:631:HIS:ND1	2.53	0.41
1:y:699:GLU:HB2	1:y:701:GLN:HE21	1.84	0.41
1:1:323:LYS:NZ	1:1:336:ASN:OD1	2.35	0.41
1:6:425:SER:O	1:6:731:ARG:HA	2.21	0.41
1:6:510:LYS:HD2	1:6:517:ASN:HB3	2.02	0.41
1:7:426:TYR:HE1	1:7:428:HIS:CE1	2.39	0.41
1:8:427:ALA:O	1:8:734:THR:HA	2.21	0.41
1:8:631:HIS:ND1	1:8:631:HIS:O	2.54	0.41
1:A:487:ARG:O	1:I:581:VAL:HG23	2.21	0.41
1:C:313:LEU:HD13	1:C:684:ILE:HG12	2.02	0.41
1:D:545:PHE:HB2	1:D:560:LEU:HB2	2.02	0.41
1:E:490:ARG:NH1	1:F:585:LEU:HD23	2.36	0.41
1:G:404:MET:C	1:G:405:LEU:HD12	2.45	0.41
1:G:425:SER:O	1:G:731:ARG:HA	2.21	0.41
1:G:426:TYR:HE1	1:G:428:HIS:CE1	2.38	0.41
1:G:427:ALA:O	1:G:734:THR:HA	2.21	0.41
1:H:323:LYS:NZ	1:H:336:ASN:OD1	2.35	0.41
1:I:275:PHE:HB3	1:I:383:ASN:HB3	2.02	0.41
1:J:426:TYR:HE1	1:J:428:HIS:CE1	2.38	0.41
1:J:528:THR:HG21	1:J:563:ASN:HA	2.01	0.41
1:K:290:HIS:CD2	1:K:366:PRO:HG3	2.55	0.41
1:K:699:GLU:HB2	1:K:701:GLN:HE21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:288:ARG:CZ	1:M:290:HIS:CE1	3.03	0.41
1:N:487:ARG:NH2	1:N:598:ASN:OD1	2.53	0.41
1:O:290:HIS:CD2	1:O:366:PRO:HG3	2.55	0.41
1:P:510:LYS:HD2	1:P:517:ASN:HB3	2.02	0.41
1:P:528:THR:HG21	1:P:563:ASN:HA	2.01	0.41
1:P:677:THR:HG21	1:Q:656:PRO:HD2	2.02	0.41
1:Q:545:PHE:HB2	1:Q:560:LEU:HB2	2.02	0.41
1:R:487:ARG:NH2	1:R:598:ASN:OD1	2.53	0.41
1:S:313:LEU:HD13	1:S:684:ILE:HG12	2.03	0.41
1:V:275:PHE:HB3	1:V:383:ASN:HB3	2.02	0.41
1:W:287:ASN:O	1:W:618:PRO:HA	2.20	0.41
1:X:287:ASN:O	1:X:618:PRO:HA	2.20	0.41
1:Z:427:ALA:O	1:Z:734:THR:HA	2.21	0.41
1:d:323:LYS:NZ	1:d:336:ASN:OD1	2.35	0.41
1:e:545:PHE:HB2	1:e:560:LEU:HB2	2.02	0.41
1:g:287:ASN:O	1:g:618:PRO:HA	2.20	0.41
1:g:431:SER:HA	1:g:569:PRO:HB3	2.01	0.41
1:i:287:ASN:O	1:i:618:PRO:HA	2.20	0.41
1:j:631:HIS:ND1	1:j:631:HIS:O	2.54	0.41
1:l:287:ASN:O	1:l:618:PRO:HA	2.20	0.41
1:n:404:MET:C	1:n:405:LEU:HD12	2.45	0.41
1:o:290:HIS:HD2	1:o:366:PRO:CA	2.34	0.41
1:o:290:HIS:CD2	1:o:366:PRO:HG3	2.55	0.41
1:p:545:PHE:HB2	1:p:560:LEU:HB2	2.02	0.41
1:q:487:ARG:NH2	1:q:598:ASN:OD1	2.53	0.41
1:r:425:SER:O	1:r:731:ARG:HA	2.21	0.41
1:s:631:HIS:ND1	1:s:631:HIS:O	2.53	0.41
1:t:445:TYR:HE1	1:t:467:GLN:HG3	1.82	0.41
1:u:313:LEU:HD13	1:u:684:ILE:HG12	2.02	0.41
1:v:404:MET:C	1:v:405:LEU:HD12	2.45	0.41
1:v:445:TYR:HE1	1:v:467:GLN:HG3	1.82	0.41
1:w:427:ALA:O	1:w:734:THR:HA	2.20	0.41
1:x:425:SER:O	1:x:731:ARG:HA	2.21	0.41
1:x:545:PHE:HB2	1:x:560:LEU:HB2	2.02	0.41
1:x:631:HIS:O	1:x:631:HIS:ND1	2.53	0.41
1:y:427:ALA:O	1:y:734:THR:HA	2.20	0.41
1:z:437:ASN:HB2	1:1:355:VAL:HB	2.01	0.41
1:1:275:PHE:HB3	1:1:383:ASN:HB3	2.02	0.41
1:2:631:HIS:ND1	1:2:631:HIS:O	2.53	0.41
1:4:404:MET:C	1:4:405:LEU:HD12	2.45	0.41
1:5:425:SER:O	1:5:731:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:487:ARG:NH2	1:5:598:ASN:OD1	2.53	0.41
1:7:287:ASN:O	1:7:618:PRO:HA	2.20	0.41
1:7:433:ASP:OD1	1:7:433:ASP:N	2.50	0.41
1:8:287:ASN:O	1:8:618:PRO:HA	2.20	0.41
1:8:290:HIS:CD2	1:8:366:PRO:HG3	2.55	0.41
1:C:287:ASN:O	1:C:618:PRO:HA	2.20	0.41
1:C:431:SER:HA	1:C:569:PRO:HB3	2.01	0.41
1:D:275:PHE:HB3	1:D:383:ASN:HB3	2.02	0.41
1:D:404:MET:C	1:D:405:LEU:HD12	2.45	0.41
1:E:288:ARG:CZ	1:E:290:HIS:CE1	3.03	0.41
1:E:631:HIS:ND1	1:E:631:HIS:O	2.53	0.41
1:F:427:ALA:O	1:F:734:THR:HA	2.20	0.41
1:F:699:GLU:HB2	1:F:701:GLN:HE21	1.84	0.41
1:H:487:ARG:NH2	1:H:598:ASN:OD1	2.53	0.41
1:J:631:HIS:ND1	1:J:631:HIS:O	2.53	0.41
1:N:287:ASN:O	1:N:618:PRO:HA	2.20	0.41
1:O:581:VAL:HG23	1:m:487:ARG:O	2.21	0.41
1:P:631:HIS:ND1	1:P:631:HIS:O	2.53	0.41
1:Q:631:HIS:O	1:Q:631:HIS:ND1	2.53	0.41
1:R:581:VAL:HG23	1:S:487:ARG:O	2.21	0.41
1:S:425:SER:O	1:S:731:ARG:HA	2.21	0.41
1:S:532:ASP:OD1	1:U:384:ASN:ND2	2.43	0.41
1:T:287:ASN:O	1:T:618:PRO:HA	2.20	0.41
1:U:631:HIS:ND1	1:U:631:HIS:O	2.53	0.41
1:W:275:PHE:HB3	1:W:383:ASN:HB3	2.02	0.41
1:X:290:HIS:CD2	1:X:366:PRO:HG3	2.55	0.41
1:Z:287:ASN:O	1:Z:618:PRO:HA	2.20	0.41
1:b:427:ALA:O	1:b:734:THR:HA	2.20	0.41
1:c:545:PHE:HB2	1:c:560:LEU:HB2	2.02	0.41
1:d:275:PHE:HB3	1:d:383:ASN:HB3	2.02	0.41
1:d:431:SER:HA	1:d:569:PRO:HB3	2.01	0.41
1:d:631:HIS:O	1:d:631:HIS:ND1	2.54	0.41
1:e:275:PHE:HB3	1:e:383:ASN:HB3	2.02	0.41
1:f:545:PHE:HB2	1:f:560:LEU:HB2	2.02	0.41
1:g:313:LEU:HD13	1:g:684:ILE:HG12	2.03	0.41
1:h:288:ARG:CZ	1:h:290:HIS:CE1	3.03	0.41
1:i:487:ARG:NH2	1:i:598:ASN:OD1	2.53	0.41
1:j:528:THR:HG21	1:j:563:ASN:HA	2.01	0.41
1:k:275:PHE:HB3	1:k:383:ASN:HB3	2.02	0.41
1:k:404:MET:C	1:k:405:LEU:HD12	2.45	0.41
1:k:545:PHE:HB2	1:k:560:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:287:ASN:O	1:m:618:PRO:HA	2.20	0.41
1:m:581:VAL:HG23	1:n:487:ARG:O	2.20	0.41
1:o:427:ALA:O	1:o:734:THR:HA	2.20	0.41
1:o:720:GLY:HA2	1:7:258:TYR:O	2.21	0.41
1:t:404:MET:C	1:t:405:LEU:HD12	2.45	0.41
1:t:427:ALA:O	1:t:734:THR:HA	2.21	0.41
1:w:426:TYR:HE1	1:w:428:HIS:CE1	2.38	0.41
1:1:287:ASN:O	1:1:618:PRO:HA	2.20	0.41
1:1:425:SER:O	1:1:731:ARG:HA	2.21	0.41
1:2:313:LEU:HD13	1:2:684:ILE:HG12	2.03	0.41
1:2:426:TYR:HE1	1:2:428:HIS:CE1	2.38	0.41
1:3:275:PHE:HB3	1:3:383:ASN:HB3	2.02	0.41
1:3:631:HIS:ND1	1:3:631:HIS:O	2.54	0.41
1:4:290:HIS:CD2	1:4:366:PRO:HG3	2.55	0.41
1:5:258:TYR:O	1:8:720:GLY:HA2	2.21	0.41
1:6:275:PHE:HB3	1:6:383:ASN:HB3	2.02	0.41
1:6:290:HIS:CD2	1:6:366:PRO:HG3	2.55	0.41
1:7:427:ALA:O	1:7:734:THR:HA	2.21	0.41
1:7:487:ARG:NH2	1:7:598:ASN:OD1	2.53	0.41
1:B:275:PHE:HB3	1:B:383:ASN:HB3	2.02	0.41
1:B:425:SER:O	1:B:731:ARG:HA	2.21	0.41
1:C:425:SER:O	1:C:731:ARG:HA	2.21	0.41
1:D:631:HIS:ND1	1:D:631:HIS:O	2.53	0.41
1:E:427:ALA:O	1:E:734:THR:HA	2.20	0.41
1:F:631:HIS:ND1	1:F:631:HIS:O	2.53	0.41
1:G:313:LEU:HD13	1:G:684:ILE:HG12	2.03	0.41
1:H:258:TYR:O	1:Z:720:GLY:HA2	2.21	0.41
1:I:287:ASN:O	1:I:618:PRO:HA	2.20	0.41
1:J:313:LEU:HD13	1:J:684:ILE:HG12	2.03	0.41
1:K:487:ARG:O	1:8:581:VAL:HG23	2.21	0.41
1:M:258:TYR:O	1:c:720:GLY:HA2	2.21	0.41
1:N:425:SER:O	1:N:731:ARG:HA	2.21	0.41
1:O:427:ALA:O	1:O:734:THR:HA	2.20	0.41
1:P:545:PHE:HB2	1:P:560:LEU:HB2	2.02	0.41
1:Q:290:HIS:HD2	1:Q:366:PRO:CA	2.34	0.41
1:T:427:ALA:O	1:T:734:THR:HA	2.21	0.41
1:T:487:ARG:O	1:l:581:VAL:HG23	2.21	0.41
1:V:313:LEU:HD13	1:V:684:ILE:HG12	2.02	0.41
1:V:581:VAL:HG23	1:e:487:ARG:O	2.21	0.41
1:W:290:HIS:CD2	1:W:366:PRO:HG3	2.55	0.41
1:W:581:VAL:HG23	1:Y:487:ARG:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:631:HIS:ND1	1:W:631:HIS:O	2.53	0.41
1:X:427:ALA:O	1:X:734:THR:HA	2.20	0.41
1:X:720:GLY:HA2	1:Y:258:TYR:O	2.21	0.41
1:Y:427:ALA:O	1:Y:734:THR:HA	2.21	0.41
1:Z:290:HIS:HD2	1:Z:366:PRO:CA	2.34	0.41
1:Z:425:SER:O	1:Z:731:ARG:HA	2.21	0.41
1:a:275:PHE:HB3	1:a:383:ASN:HB3	2.02	0.41
1:a:427:ALA:O	1:a:734:THR:HA	2.20	0.41
1:a:631:HIS:ND1	1:a:631:HIS:O	2.54	0.41
1:c:275:PHE:HB3	1:c:383:ASN:HB3	2.02	0.41
1:d:313:LEU:HD13	1:d:684:ILE:HG12	2.02	0.41
1:d:404:MET:C	1:d:405:LEU:HD12	2.45	0.41
1:e:287:ASN:O	1:e:618:PRO:HA	2.20	0.41
1:e:720:GLY:HA2	1:h:258:TYR:O	2.21	0.41
1:f:427:ALA:O	1:f:734:THR:HA	2.20	0.41
1:h:313:LEU:HD13	1:h:684:ILE:HG12	2.03	0.41
1:h:631:HIS:ND1	1:h:631:HIS:O	2.53	0.41
1:k:258:TYR:O	1:w:720:GLY:HA2	2.21	0.41
1:k:425:SER:O	1:k:731:ARG:HA	2.21	0.41
1:l:427:ALA:O	1:l:734:THR:HA	2.21	0.41
1:m:427:ALA:O	1:m:734:THR:HA	2.21	0.41
1:n:631:HIS:O	1:n:631:HIS:ND1	2.54	0.41
1:o:275:PHE:HB3	1:o:383:ASN:HB3	2.02	0.41
1:p:275:PHE:HB3	1:p:383:ASN:HB3	2.02	0.41
1:p:313:LEU:HD13	1:p:684:ILE:HG12	2.02	0.41
1:q:581:VAL:HG23	1:r:487:ARG:O	2.21	0.41
1:r:510:LYS:HD2	1:r:517:ASN:HB3	2.02	0.41
1:s:425:SER:O	1:s:731:ARG:HA	2.21	0.41
1:s:426:TYR:HE1	1:s:428:HIS:CE1	2.38	0.41
1:t:313:LEU:HD13	1:t:684:ILE:HG12	2.02	0.41
1:u:287:ASN:O	1:u:618:PRO:HA	2.20	0.41
1:w:288:ARG:CZ	1:w:290:HIS:CE1	3.03	0.41
1:w:490:ARG:NH1	1:y:585:LEU:HD23	2.36	0.41
1:3:699:GLU:HB2	1:3:701:GLN:HE21	1.84	0.41
1:6:287:ASN:O	1:6:618:PRO:HA	2.20	0.41
1:A:258:TYR:O	1:B:720:GLY:HA2	2.21	0.41
1:A:427:ALA:O	1:A:734:THR:HA	2.20	0.41
1:A:585:LEU:HD23	1:G:490:ARG:NH1	2.36	0.41
1:B:313:LEU:HD13	1:B:684:ILE:HG12	2.03	0.41
1:B:581:VAL:HG23	1:J:487:ARG:O	2.21	0.41
1:B:585:LEU:HD23	1:J:490:ARG:NH1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:275:PHE:HB3	1:C:383:ASN:HB3	2.02	0.41
1:C:585:LEU:HD23	1:b:490:ARG:NH1	2.36	0.41
1:D:425:SER:O	1:D:731:ARG:HA	2.21	0.41
1:E:585:LEU:HD23	1:Q:490:ARG:NH1	2.36	0.41
1:H:426:TYR:HE1	1:H:428:HIS:CE1	2.38	0.41
1:H:427:ALA:O	1:H:734:THR:HA	2.20	0.41
1:J:288:ARG:CZ	1:J:290:HIS:CE1	3.03	0.41
1:J:581:VAL:HG23	1:L:487:ARG:O	2.21	0.41
1:L:313:LEU:HD13	1:L:684:ILE:HG12	2.03	0.41
1:L:427:ALA:O	1:L:734:THR:HA	2.20	0.41
1:L:720:GLY:HA2	1:b:258:TYR:O	2.21	0.41
1:M:290:HIS:HD2	1:M:366:PRO:CA	2.34	0.41
1:M:313:LEU:HD13	1:M:684:ILE:HG12	2.03	0.41
1:M:631:HIS:ND1	1:M:631:HIS:O	2.53	0.41
1:N:275:PHE:HB3	1:N:383:ASN:HB3	2.02	0.41
1:O:490:ARG:NH1	1:n:585:LEU:HD23	2.36	0.41
1:O:631:HIS:ND1	1:O:631:HIS:O	2.53	0.41
1:Q:404:MET:C	1:Q:405:LEU:HD12	2.45	0.41
1:R:258:TYR:O	1:V:720:GLY:HA2	2.21	0.41
1:R:425:SER:O	1:R:731:ARG:HA	2.21	0.41
1:S:288:ARG:CZ	1:S:290:HIS:CE1	3.03	0.41
1:S:510:LYS:HD2	1:S:517:ASN:HB3	2.02	0.41
1:T:510:LYS:HD2	1:T:517:ASN:HB3	2.02	0.41
1:T:581:VAL:HG23	1:d:487:ARG:O	2.21	0.41
1:T:720:GLY:HA2	1:U:258:TYR:O	2.21	0.41
1:U:288:ARG:CZ	1:U:290:HIS:CE1	3.03	0.41
1:U:425:SER:O	1:U:731:ARG:HA	2.21	0.41
1:U:426:TYR:HE1	1:U:428:HIS:CE1	2.38	0.41
1:U:545:PHE:HB2	1:U:560:LEU:HB2	2.02	0.41
1:X:275:PHE:HB3	1:X:383:ASN:HB3	2.02	0.41
1:X:545:PHE:HB2	1:X:560:LEU:HB2	2.02	0.41
1:Y:313:LEU:HD13	1:Y:684:ILE:HG12	2.02	0.41
1:Y:433:ASP:OD1	1:Y:433:ASP:N	2.50	0.41
1:Z:581:VAL:HG23	1:4:487:ARG:O	2.21	0.41
1:a:699:GLU:HB2	1:a:701:GLN:HE21	1.84	0.41
1:b:425:SER:O	1:b:731:ARG:HA	2.21	0.41
1:c:287:ASN:O	1:c:618:PRO:HA	2.20	0.41
1:c:427:ALA:O	1:c:734:THR:HA	2.20	0.41
1:c:487:ARG:O	1:p:581:VAL:HG23	2.21	0.41
1:d:427:ALA:O	1:d:734:THR:HA	2.20	0.41
1:d:510:LYS:HD2	1:d:517:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:585:LEU:HD23	1:l:490:ARG:NH1	2.36	0.41
1:e:427:ALA:O	1:e:734:THR:HA	2.20	0.41
1:f:258:TYR:O	1:z:720:GLY:HA2	2.21	0.41
1:f:425:SER:O	1:f:731:ARG:HA	2.21	0.41
1:f:490:ARG:NH1	1:g:585:LEU:HD23	2.36	0.41
1:g:425:SER:O	1:g:731:ARG:HA	2.21	0.41
1:h:425:SER:O	1:h:731:ARG:HA	2.21	0.41
1:i:275:PHE:HB3	1:i:383:ASN:HB3	2.02	0.41
1:i:425:SER:O	1:i:731:ARG:HA	2.21	0.41
1:j:545:PHE:HB2	1:j:560:LEU:HB2	2.02	0.41
1:k:631:HIS:ND1	1:k:631:HIS:O	2.54	0.41
1:m:425:SER:O	1:m:731:ARG:HA	2.21	0.41
1:m:510:LYS:HD2	1:m:517:ASN:HB3	2.02	0.41
1:m:720:GLY:HA2	1:s:258:TYR:O	2.21	0.41
1:n:313:LEU:HD13	1:n:684:ILE:HG12	2.02	0.41
1:n:427:ALA:O	1:n:734:THR:HA	2.20	0.41
1:n:510:LYS:HD2	1:n:517:ASN:HB3	2.02	0.41
1:o:545:PHE:HB2	1:o:560:LEU:HB2	2.02	0.41
1:o:612:ASP:OD1	1:o:730:THR:OG1	2.34	0.41
1:p:720:GLY:HA2	1:q:258:TYR:O	2.21	0.41
1:r:288:ARG:CZ	1:r:290:HIS:CE1	3.03	0.41
1:s:545:PHE:HB2	1:s:560:LEU:HB2	2.02	0.41
1:t:490:ARG:NH1	1:v:585:LEU:HD23	2.36	0.41
1:t:510:LYS:HD2	1:t:517:ASN:HB3	2.02	0.41
1:v:290:HIS:HD2	1:v:366:PRO:CA	2.33	0.41
1:v:427:ALA:O	1:v:734:THR:HA	2.21	0.41
1:w:585:LEU:HD23	1:x:490:ARG:NH1	2.36	0.41
1:x:290:HIS:HD2	1:x:366:PRO:CA	2.33	0.41
1:y:290:HIS:HD2	1:y:366:PRO:CA	2.33	0.41
1:y:631:HIS:ND1	1:y:631:HIS:O	2.53	0.41
1:z:313:LEU:HD13	1:z:684:ILE:HG12	2.03	0.41
1:z:487:ARG:O	1:2:581:VAL:HG23	2.21	0.41
1:1:313:LEU:HD13	1:1:684:ILE:HG12	2.03	0.41
1:1:581:VAL:HG23	1:2:487:ARG:O	2.21	0.41
1:2:288:ARG:CZ	1:2:290:HIS:CE1	3.03	0.41
1:3:323:LYS:NZ	1:3:336:ASN:OD1	2.35	0.41
1:3:427:ALA:O	1:3:734:THR:HA	2.20	0.41
1:5:426:TYR:HE1	1:5:428:HIS:CE1	2.38	0.41
1:5:427:ALA:O	1:5:734:THR:HA	2.20	0.41
1:6:581:VAL:HG23	1:7:487:ARG:O	2.21	0.41
1:6:631:HIS:ND1	1:6:631:HIS:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:313:LEU:HD13	1:7:684:ILE:HG12	2.02	0.41
1:8:290:HIS:HD2	1:8:366:PRO:CA	2.34	0.41
1:8:425:SER:O	1:8:731:ARG:HA	2.21	0.41
1:A:290:HIS:HD2	1:A:366:PRO:CA	2.34	0.41
1:B:490:ARG:NH1	1:L:585:LEU:HD23	2.36	0.41
1:E:428:HIS:HE1	1:Q:625:HIS:O	2.05	0.41
1:F:290:HIS:HD2	1:F:366:PRO:CA	2.33	0.41
1:F:313:LEU:HD13	1:F:684:ILE:HG12	2.03	0.41
1:G:510:LYS:HD2	1:G:517:ASN:HB3	2.02	0.41
1:I:426:TYR:HE1	1:I:428:HIS:CE1	2.38	0.41
1:K:720:GLY:HA2	1:L:258:TYR:O	2.21	0.41
1:L:425:SER:O	1:L:731:ARG:HA	2.21	0.41
1:M:425:SER:O	1:M:731:ARG:HA	2.21	0.41
1:N:427:ALA:O	1:N:734:THR:HA	2.20	0.41
1:O:275:PHE:HB3	1:O:383:ASN:HB3	2.02	0.41
1:O:510:LYS:HD2	1:O:517:ASN:HB3	2.02	0.41
1:R:585:LEU:HD23	1:S:490:ARG:NH1	2.36	0.41
1:S:426:TYR:HE1	1:S:428:HIS:CE1	2.38	0.41
1:T:425:SER:O	1:T:731:ARG:HA	2.21	0.41
1:U:427:ALA:O	1:U:734:THR:HA	2.20	0.41
1:V:290:HIS:CD2	1:V:366:PRO:HG3	2.55	0.41
1:Y:510:LYS:HD2	1:Y:517:ASN:HB3	2.02	0.41
1:c:510:LYS:HD2	1:c:517:ASN:HB3	2.02	0.41
1:e:631:HIS:ND1	1:e:631:HIS:O	2.53	0.41
1:g:275:PHE:HB3	1:g:383:ASN:HB3	2.02	0.41
1:g:290:HIS:HD2	1:g:366:PRO:CA	2.33	0.41
1:h:510:LYS:HD2	1:h:517:ASN:HB3	2.02	0.41
1:i:427:ALA:O	1:i:734:THR:HA	2.20	0.41
1:l:510:LYS:HD2	1:l:517:ASN:HB3	2.02	0.41
1:l:631:HIS:ND1	1:l:631:HIS:O	2.54	0.41
1:q:425:SER:O	1:q:731:ARG:HA	2.21	0.41
1:q:585:LEU:HD23	1:r:490:ARG:NH1	2.36	0.41
1:r:258:TYR:O	1:x:720:GLY:HA2	2.21	0.41
1:r:532:ASP:OD1	1:s:384:ASN:ND2	2.43	0.41
1:s:287:ASN:O	1:s:618:PRO:HA	2.20	0.41
1:s:288:ARG:CZ	1:s:290:HIS:CE1	3.03	0.41
1:s:427:ALA:O	1:s:734:THR:HA	2.20	0.41
1:v:236:LEU:HD11	1:v:239[B]:ARG:NH1	2.36	0.41
1:v:258:TYR:O	1:1:720:GLY:HA2	2.21	0.41
1:v:425:SER:O	1:v:731:ARG:HA	2.21	0.41
1:w:313:LEU:HD13	1:w:684:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:404:MET:C	1:x:405:LEU:HD12	2.45	0.41
1:x:427:ALA:O	1:x:734:THR:HA	2.21	0.41
1:y:313:LEU:HD13	1:y:684:ILE:HG12	2.03	0.41
1:z:425:SER:O	1:z:731:ARG:HA	2.21	0.41
1:z:585:LEU:HD23	1:1:490:ARG:NH1	2.36	0.41
1:1:631:HIS:O	1:1:631:HIS:ND1	2.53	0.41
1:5:585:LEU:HD23	1:6:490:ARG:NH1	2.36	0.41
1:A:625:HIS:O	1:I:428:HIS:HE1	2.05	0.40
1:B:631:HIS:O	1:B:631:HIS:ND1	2.53	0.40
1:C:288:ARG:CZ	1:C:290:HIS:CE1	3.03	0.40
1:C:487:ARG:O	1:M:581:VAL:HG23	2.21	0.40
1:E:313:LEU:HD13	1:E:684:ILE:HG12	2.03	0.40
1:H:490:ARG:NH1	1:Y:585:LEU:HD23	2.36	0.40
1:H:585:LEU:HD23	1:W:490:ARG:NH1	2.36	0.40
1:I:323:LYS:NZ	1:I:336:ASN:OD1	2.35	0.40
1:J:236:LEU:HD11	1:J:239[B]:ARG:NH1	2.36	0.40
1:J:585:LEU:HD23	1:L:490:ARG:NH1	2.36	0.40
1:J:720:GLY:HA2	1:a:258:TYR:O	2.21	0.40
1:K:290:HIS:HD2	1:K:366:PRO:CA	2.34	0.40
1:K:490:ARG:NH1	1:8:585:LEU:HD23	2.36	0.40
1:M:510:LYS:HD2	1:M:517:ASN:HB3	2.02	0.40
1:O:258:TYR:O	1:d:720:GLY:HA2	2.21	0.40
1:P:425:SER:O	1:P:731:ARG:HA	2.21	0.40
1:Q:720:GLY:HA2	1:S:258:TYR:O	2.21	0.40
1:V:258:TYR:O	1:W:720:GLY:HA2	2.21	0.40
1:V:490:ARG:NH1	1:X:585:LEU:HD23	2.36	0.40
1:W:288:ARG:CZ	1:W:290:HIS:CE1	3.03	0.40
1:X:426:TYR:HE1	1:X:428:HIS:CE1	2.38	0.40
1:Y:720:GLY:HA2	1:4:258:TYR:O	2.21	0.40
1:Z:490:ARG:NH1	1:3:585:LEU:HD23	2.36	0.40
1:a:585:LEU:HD23	1:8:490:ARG:NH1	2.36	0.40
1:b:720:GLY:HA2	1:o:258:TYR:O	2.21	0.40
1:c:585:LEU:HD23	1:o:490:ARG:NH1	2.36	0.40
1:c:631:HIS:ND1	1:c:631:HIS:O	2.53	0.40
1:d:425:SER:O	1:d:731:ARG:HA	2.21	0.40
1:e:510:LYS:HD2	1:e:517:ASN:HB3	2.02	0.40
1:g:288:ARG:CZ	1:g:290:HIS:CE1	3.03	0.40
1:g:487:ARG:O	1:h:581:VAL:HG23	2.21	0.40
1:g:631:HIS:ND1	1:g:631:HIS:O	2.54	0.40
1:h:290:HIS:HD2	1:h:366:PRO:CA	2.34	0.40
1:i:426:TYR:HE1	1:i:428:HIS:CE1	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:433:ASP:N	1:i:433:ASP:OD1	2.50	0.40
1:i:585:LEU:HD23	1:j:490:ARG:NH1	2.36	0.40
1:j:585:LEU:HD23	1:k:490:ARG:NH1	2.36	0.40
1:l:258:TYR:O	1:n:720:GLY:HA2	2.21	0.40
1:l:545:PHE:HB2	1:l:560:LEU:HB2	2.02	0.40
1:n:288:ARG:CZ	1:n:290:HIS:CE1	3.03	0.40
1:n:323:LYS:NZ	1:n:336:ASN:OD1	2.35	0.40
1:o:585:LEU:HD23	1:p:490:ARG:NH1	2.36	0.40
1:p:290:HIS:CD2	1:p:366:PRO:HG3	2.55	0.40
1:q:490:ARG:NH1	1:s:585:LEU:HD23	2.36	0.40
1:r:426:TYR:HE1	1:r:428:HIS:CE1	2.38	0.40
1:r:585:LEU:HD23	1:s:490:ARG:NH1	2.36	0.40
1:u:426:TYR:HE1	1:u:428:HIS:CE1	2.38	0.40
1:v:631:HIS:ND1	1:v:631:HIS:O	2.53	0.40
1:x:585:LEU:HD23	1:y:490:ARG:NH1	2.36	0.40
1:z:258:TYR:O	1:4:720:GLY:HA2	2.21	0.40
1:z:427:ALA:O	1:z:734:THR:HA	2.20	0.40
1:1:585:LEU:HD23	1:2:490:ARG:NH1	2.36	0.40
1:5:490:ARG:NH1	1:7:585:LEU:HD23	2.36	0.40
1:6:236:LEU:HD11	1:6:239[B]:ARG:NH1	2.36	0.40
1:6:288:ARG:CZ	1:6:290:HIS:CE1	3.03	0.40
1:A:275:PHE:HB3	1:A:383:ASN:HB3	2.02	0.40
1:A:425:SER:O	1:A:731:ARG:HA	2.21	0.40
1:A:631:HIS:ND1	1:A:631:HIS:O	2.53	0.40
1:C:258:TYR:O	1:D:720:GLY:HA2	2.21	0.40
1:C:290:HIS:HD2	1:C:366:PRO:CA	2.34	0.40
1:C:510:LYS:HD2	1:C:517:ASN:HB3	2.02	0.40
1:C:625:HIS:O	1:M:428:HIS:HE1	2.05	0.40
1:E:367:PHE:HA	1:E:368:PRO:HD3	1.99	0.40
1:F:426:TYR:HE1	1:F:428:HIS:CE1	2.38	0.40
1:F:490:ARG:NH1	1:Q:585:LEU:HD23	2.36	0.40
1:I:425:SER:O	1:I:731:ARG:HA	2.21	0.40
1:J:487:ARG:NH2	1:J:598:ASN:OD1	2.53	0.40
1:K:258:TYR:O	1:7:720:GLY:HA2	2.21	0.40
1:K:287:ASN:O	1:K:618:PRO:HA	2.20	0.40
1:L:275:PHE:HB3	1:L:383:ASN:HB3	2.02	0.40
1:L:288:ARG:CZ	1:L:290:HIS:CE1	3.03	0.40
1:L:510:LYS:HD2	1:L:517:ASN:HB3	2.02	0.40
1:O:545:PHE:HB2	1:O:560:LEU:HB2	2.02	0.40
1:Q:427:ALA:O	1:Q:734:THR:HA	2.21	0.40
1:R:275:PHE:HB3	1:R:383:ASN:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:490:ARG:NH1	1:U:585:LEU:HD23	2.36	0.40
1:S:585:LEU:HD23	1:U:490:ARG:NH1	2.36	0.40
1:U:287:ASN:O	1:U:618:PRO:HA	2.20	0.40
1:W:426:TYR:HE1	1:W:428:HIS:CE1	2.38	0.40
1:X:258:TYR:O	1:f:720:GLY:HA2	2.21	0.40
1:X:425:SER:O	1:X:731:ARG:HA	2.21	0.40
1:X:490:ARG:NH1	1:e:585:LEU:HD23	2.36	0.40
1:Z:258:TYR:O	1:a:720:GLY:HA2	2.21	0.40
1:Z:585:LEU:HD23	1:4:490:ARG:NH1	2.36	0.40
1:f:428:HIS:HE1	1:h:625:HIS:O	2.05	0.40
1:g:510:LYS:HD2	1:g:517:ASN:HB3	2.02	0.40
1:g:612:ASP:OD1	1:g:730:THR:OG1	2.34	0.40
1:j:581:VAL:HG23	1:k:487:ARG:O	2.21	0.40
1:l:275:PHE:HB3	1:l:383:ASN:HB3	2.02	0.40
1:m:275:PHE:HB3	1:m:383:ASN:HB3	2.02	0.40
1:n:425:SER:O	1:n:731:ARG:HA	2.21	0.40
1:o:426:TYR:HE1	1:o:428:HIS:CE1	2.38	0.40
1:p:258:TYR:O	1:6:720:GLY:HA2	2.21	0.40
1:p:426:TYR:HE1	1:p:428:HIS:CE1	2.38	0.40
1:q:275:PHE:HB3	1:q:383:ASN:HB3	2.02	0.40
1:t:258:TYR:O	1:y:720:GLY:HA2	2.21	0.40
1:u:323:LYS:NZ	1:u:336:ASN:OD1	2.35	0.40
1:u:428:HIS:HE1	1:v:625:HIS:O	2.05	0.40
1:v:510:LYS:HD2	1:v:517:ASN:HB3	2.02	0.40
1:w:367:PHE:HA	1:w:368:PRO:HD3	2.00	0.40
1:w:428:HIS:HE1	1:x:625:HIS:O	2.05	0.40
1:z:490:ARG:NH1	1:2:585:LEU:HD23	2.36	0.40
1:1:545:PHE:HB2	1:1:560:LEU:HB2	2.02	0.40
1:2:287:ASN:O	1:2:618:PRO:HA	2.20	0.40
1:2:720:GLY:HA2	1:3:258:TYR:O	2.21	0.40
1:3:288:ARG:CZ	1:3:290:HIS:CE1	3.03	0.40
1:3:433:ASP:OD1	1:3:433:ASP:N	2.50	0.40
1:3:720:GLY:HA2	1:8:258:TYR:O	2.21	0.40
1:4:290:HIS:HD2	1:4:366:PRO:CA	2.34	0.40
1:4:313:LEU:HD13	1:4:684:ILE:HG12	2.02	0.40
1:7:510:LYS:HD2	1:7:517:ASN:HB3	2.03	0.40
1:B:545:PHE:HB2	1:B:560:LEU:HB2	2.02	0.40
1:C:631:HIS:ND1	1:C:631:HIS:O	2.54	0.40
1:D:635:LEU:HD11	1:P:481:LEU:HG	2.03	0.40
1:F:487:ARG:O	1:Q:581:VAL:HG23	2.21	0.40
1:F:720:GLY:HA2	1:G:258:TYR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:631:HIS:ND1	1:G:631:HIS:O	2.53	0.40
1:G:713:ASP:HB3	1:G:725:PRO:HG3	2.04	0.40
1:I:713:ASP:HB3	1:I:725:PRO:HG3	2.04	0.40
1:K:313:LEU:HD13	1:K:684:ILE:HG12	2.02	0.40
1:K:487:ARG:NH2	1:K:598:ASN:OD1	2.53	0.40
1:M:625:HIS:O	1:b:428:HIS:HE1	2.05	0.40
1:N:426:TYR:HE1	1:N:428:HIS:CE1	2.38	0.40
1:N:433:ASP:N	1:N:433:ASP:OD1	2.50	0.40
1:O:290:HIS:HD2	1:O:366:PRO:CA	2.34	0.40
1:O:425:SER:O	1:O:731:ARG:HA	2.21	0.40
1:P:427:ALA:O	1:P:734:THR:HA	2.20	0.40
1:T:275:PHE:HB3	1:T:383:ASN:HB3	2.02	0.40
1:V:426:TYR:HE1	1:V:428:HIS:CE1	2.38	0.40
1:a:288:ARG:CZ	1:a:290:HIS:CE1	3.03	0.40
1:c:258:TYR:O	1:s:720:GLY:HA2	2.21	0.40
1:c:425:SER:O	1:c:731:ARG:HA	2.21	0.40
1:d:288:ARG:CZ	1:d:290:HIS:CE1	3.03	0.40
1:g:625:HIS:O	1:h:428:HIS:HE1	2.05	0.40
1:j:425:SER:O	1:j:731:ARG:HA	2.21	0.40
1:j:427:ALA:O	1:j:734:THR:HA	2.20	0.40
1:l:425:SER:O	1:l:731:ARG:HA	2.21	0.40
1:o:425:SER:O	1:o:731:ARG:HA	2.21	0.40
1:r:713:ASP:HB3	1:r:725:PRO:HG3	2.04	0.40
1:t:713:ASP:HB3	1:t:725:PRO:HG3	2.04	0.40
1:u:510:LYS:HD2	1:u:517:ASN:HB3	2.02	0.40
1:u:713:ASP:HB3	1:u:725:PRO:HG3	2.04	0.40
1:v:275:PHE:HB3	1:v:383:ASN:HB3	2.02	0.40
1:w:564:GLU:OE2	1:w:614:TYR:OH	2.15	0.40
1:y:426:TYR:HE1	1:y:428:HIS:CE1	2.38	0.40
1:z:288:ARG:CZ	1:z:290:HIS:CE1	3.03	0.40
1:2:236:LEU:HD11	1:2:239[B]:ARG:NH1	2.36	0.40
1:2:425:SER:O	1:2:731:ARG:HA	2.21	0.40
1:2:487:ARG:NH2	1:2:598:ASN:OD1	2.53	0.40
1:6:426:TYR:HE1	1:6:428:HIS:CE1	2.38	0.40
1:6:585:LEU:HD23	1:7:490:ARG:NH1	2.36	0.40
1:A:510:LYS:HD2	1:A:517:ASN:HB3	2.02	0.40
1:C:427:ALA:O	1:C:734:THR:HA	2.20	0.40
1:G:428:HIS:HE1	1:I:625:HIS:O	2.05	0.40
1:H:290:HIS:HD2	1:H:366:PRO:CA	2.33	0.40
1:I:510:LYS:HD2	1:I:517:ASN:HB3	2.02	0.40
1:J:287:ASN:O	1:J:618:PRO:HA	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:425:SER:O	1:J:731:ARG:HA	2.21	0.40
1:K:428:HIS:HE1	1:a:625:HIS:O	2.05	0.40
1:M:275:PHE:HB3	1:M:383:ASN:HB3	2.02	0.40
1:M:545:PHE:HB2	1:M:560:LEU:HB2	2.02	0.40
1:N:581:VAL:HG23	1:P:487:ARG:O	2.20	0.40
1:S:713:ASP:HB3	1:S:725:PRO:HG3	2.04	0.40
1:S:720:GLY:HA2	1:d:258:TYR:O	2.21	0.40
1:U:720:GLY:HA2	1:e:258:TYR:O	2.21	0.40
1:V:510:LYS:HD2	1:V:517:ASN:HB3	2.02	0.40
1:W:313:LEU:HD13	1:W:684:ILE:HG12	2.02	0.40
1:W:585:LEU:HD23	1:Y:490:ARG:NH1	2.36	0.40
1:Z:713:ASP:HB3	1:Z:725:PRO:HG3	2.04	0.40
1:a:367:PHE:HA	1:a:368:PRO:HD3	1.99	0.40
1:a:433:ASP:OD1	1:a:433:ASP:N	2.50	0.40
1:d:426:TYR:HE1	1:d:428:HIS:CE1	2.38	0.40
1:e:425:SER:O	1:e:731:ARG:HA	2.21	0.40
1:g:258:TYR:O	1:k:720:GLY:HA2	2.21	0.40
1:j:720:GLY:HA2	1:x:258:TYR:O	2.21	0.40
1:m:323:LYS:NZ	1:m:336:ASN:OD1	2.35	0.40
1:n:258:TYR:O	1:r:720:GLY:HA2	2.21	0.40
1:p:510:LYS:HD2	1:p:517:ASN:HB3	2.02	0.40
1:p:512:HIS:ND1	1:p:517:ASN:OD1	2.45	0.40
1:q:487:ARG:O	1:s:581:VAL:HG23	2.21	0.40
1:r:433:ASP:OD1	1:r:433:ASP:N	2.50	0.40
1:t:631:HIS:ND1	1:t:631:HIS:O	2.53	0.40
1:u:425:SER:O	1:u:731:ARG:HA	2.21	0.40
1:u:585:LEU:HD23	1:v:490:ARG:NH1	2.36	0.40
1:v:487:ARG:NH2	1:v:598:ASN:OD1	2.53	0.40
1:w:425:SER:O	1:w:731:ARG:HA	2.21	0.40
1:x:428:HIS:HE1	1:y:625:HIS:O	2.05	0.40
1:z:275:PHE:HB3	1:z:383:ASN:HB3	2.02	0.40
1:z:510:LYS:HD2	1:z:517:ASN:HB3	2.02	0.40
1:3:625:HIS:O	1:4:428:HIS:HE1	2.05	0.40
1:4:287:ASN:O	1:4:618:PRO:HA	2.20	0.40
1:8:713:ASP:HB3	1:8:725:PRO:HG3	2.04	0.40
1:A:487:ARG:NH2	1:A:598:ASN:OD1	2.53	0.40
1:B:713:ASP:HB3	1:B:725:PRO:HG3	2.04	0.40
1:D:713:ASP:HB3	1:D:725:PRO:HG3	2.04	0.40
1:E:425:SER:O	1:E:731:ARG:HA	2.21	0.40
1:F:625:HIS:O	1:Q:428:HIS:HE1	2.05	0.40
1:G:585:LEU:HD23	1:I:490:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:288:ARG:CZ	1:I:290:HIS:CE1	3.03	0.40
1:M:323:LYS:NZ	1:M:336:ASN:OD1	2.35	0.40
1:M:490:ARG:NH1	1:b:585:LEU:HD23	2.36	0.40
1:N:236:LEU:HD11	1:N:239[B]:ARG:NH1	2.36	0.40
1:N:428:HIS:O	1:P:382:LEU:HD11	2.22	0.40
1:N:720:GLY:HA2	1:m:258:TYR:O	2.21	0.40
1:O:323:LYS:NZ	1:O:336:ASN:OD1	2.35	0.40
1:O:585:LEU:HD23	1:m:490:ARG:NH1	2.36	0.40
1:P:343:GLN:HG2	1:P:404:MET:HG2	2.04	0.40
1:R:426:TYR:HE1	1:R:428:HIS:CE1	2.38	0.40
1:R:487:ARG:O	1:U:581:VAL:HG23	2.21	0.40
1:T:258:TYR:O	1:i:720:GLY:HA2	2.21	0.40
1:T:490:ARG:NH1	1:l:585:LEU:HD23	2.36	0.40
1:Y:425:SER:O	1:Y:731:ARG:HA	2.21	0.40
1:Z:313:LEU:HD13	1:Z:684:ILE:HG12	2.03	0.40
1:Z:625:HIS:O	1:3:428:HIS:HE1	2.05	0.40
1:a:428:HIS:HE1	1:8:625:HIS:O	2.05	0.40
1:c:290:HIS:HD2	1:c:366:PRO:CA	2.34	0.40
1:c:343:GLN:HG2	1:c:404:MET:HG2	2.04	0.40
1:e:290:HIS:HD2	1:e:366:PRO:CA	2.33	0.40
1:h:275:PHE:HB3	1:h:383:ASN:HB3	2.02	0.40
1:h:427:ALA:O	1:h:734:THR:HA	2.20	0.40
1:h:545:PHE:HB2	1:h:560:LEU:HB2	2.02	0.40
1:i:236:LEU:HD11	1:i:239[B]:ARG:NH1	2.36	0.40
1:j:343:GLN:HG2	1:j:404:MET:HG2	2.04	0.40
1:l:290:HIS:HD2	1:l:366:PRO:CA	2.34	0.40
1:n:426:TYR:HE1	1:n:428:HIS:CE1	2.38	0.40
1:t:428:HIS:HE1	1:u:625:HIS:O	2.05	0.40
1:v:720:GLY:HA2	1:w:258:TYR:O	2.21	0.40
1:x:581:VAL:HG23	1:y:487:ARG:O	2.21	0.40
1:3:313:LEU:HD13	1:3:684:ILE:HG12	2.02	0.40
1:4:487:ARG:NH2	1:4:598:ASN:OD1	2.53	0.40
1:4:631:HIS:O	1:4:631:HIS:ND1	2.53	0.40
1:5:290:HIS:HD2	1:5:366:PRO:CA	2.33	0.40
1:7:631:HIS:O	1:7:631:HIS:ND1	2.53	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	2	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	3	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	4	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	5	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	6	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	7	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	8	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	A	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	B	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	C	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	D	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	E	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	F	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	G	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	H	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	I	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	J	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	K	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	L	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	M	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	N	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	O	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	P	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	Q	519/520 (100%)	505 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	S	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	T	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	U	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	V	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	W	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	X	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	Y	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	Z	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	a	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	b	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	c	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	d	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	e	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	f	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	g	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	h	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	i	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	j	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	k	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	l	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	m	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	n	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	o	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	p	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	q	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	r	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	s	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	t	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	u	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	v	519/520 (100%)	505 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	x	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	y	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
1	z	519/520 (100%)	505 (97%)	14 (3%)	0	100	100
All	All	31140/31200 (100%)	30300 (97%)	840 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	452/452 (100%)	452 (100%)	0	100	100
1	2	452/452 (100%)	452 (100%)	0	100	100
1	3	452/452 (100%)	452 (100%)	0	100	100
1	4	452/452 (100%)	452 (100%)	0	100	100
1	5	452/452 (100%)	452 (100%)	0	100	100
1	6	452/452 (100%)	452 (100%)	0	100	100
1	7	452/452 (100%)	452 (100%)	0	100	100
1	8	452/452 (100%)	452 (100%)	0	100	100
1	A	452/452 (100%)	452 (100%)	0	100	100
1	B	452/452 (100%)	452 (100%)	0	100	100
1	C	452/452 (100%)	452 (100%)	0	100	100
1	D	452/452 (100%)	452 (100%)	0	100	100
1	E	452/452 (100%)	452 (100%)	0	100	100
1	F	452/452 (100%)	452 (100%)	0	100	100
1	G	452/452 (100%)	452 (100%)	0	100	100
1	H	452/452 (100%)	452 (100%)	0	100	100
1	I	452/452 (100%)	452 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	452/452 (100%)	452 (100%)	0	100	100
1	K	452/452 (100%)	452 (100%)	0	100	100
1	L	452/452 (100%)	452 (100%)	0	100	100
1	M	452/452 (100%)	452 (100%)	0	100	100
1	N	452/452 (100%)	452 (100%)	0	100	100
1	O	452/452 (100%)	452 (100%)	0	100	100
1	P	452/452 (100%)	452 (100%)	0	100	100
1	Q	452/452 (100%)	452 (100%)	0	100	100
1	R	452/452 (100%)	452 (100%)	0	100	100
1	S	452/452 (100%)	452 (100%)	0	100	100
1	T	452/452 (100%)	452 (100%)	0	100	100
1	U	452/452 (100%)	452 (100%)	0	100	100
1	V	452/452 (100%)	452 (100%)	0	100	100
1	W	452/452 (100%)	452 (100%)	0	100	100
1	X	452/452 (100%)	452 (100%)	0	100	100
1	Y	452/452 (100%)	452 (100%)	0	100	100
1	Z	452/452 (100%)	452 (100%)	0	100	100
1	a	452/452 (100%)	452 (100%)	0	100	100
1	b	452/452 (100%)	452 (100%)	0	100	100
1	c	452/452 (100%)	452 (100%)	0	100	100
1	d	452/452 (100%)	452 (100%)	0	100	100
1	e	452/452 (100%)	452 (100%)	0	100	100
1	f	452/452 (100%)	452 (100%)	0	100	100
1	g	452/452 (100%)	452 (100%)	0	100	100
1	h	452/452 (100%)	452 (100%)	0	100	100
1	i	452/452 (100%)	452 (100%)	0	100	100
1	j	452/452 (100%)	452 (100%)	0	100	100
1	k	452/452 (100%)	452 (100%)	0	100	100
1	l	452/452 (100%)	452 (100%)	0	100	100
1	m	452/452 (100%)	452 (100%)	0	100	100
1	n	452/452 (100%)	452 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	o	452/452 (100%)	452 (100%)	0	100	100
1	p	452/452 (100%)	452 (100%)	0	100	100
1	q	452/452 (100%)	452 (100%)	0	100	100
1	r	452/452 (100%)	452 (100%)	0	100	100
1	s	452/452 (100%)	452 (100%)	0	100	100
1	t	452/452 (100%)	452 (100%)	0	100	100
1	u	452/452 (100%)	452 (100%)	0	100	100
1	v	452/452 (100%)	452 (100%)	0	100	100
1	w	452/452 (100%)	452 (100%)	0	100	100
1	x	452/452 (100%)	452 (100%)	0	100	100
1	y	452/452 (100%)	452 (100%)	0	100	100
1	z	452/452 (100%)	452 (100%)	0	100	100
All	All	27120/27120 (100%)	27120 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (752) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	230	HIS
1	A	254	ASN
1	A	256	HIS
1	A	272	ASN
1	A	290	HIS
1	A	321	GLN
1	A	428	HIS
1	A	430	GLN
1	A	558	ASN
1	A	595	GLN
1	A	625	HIS
1	A	647	GLN
1	B	230	HIS
1	B	254	ASN
1	B	256	HIS
1	B	290	HIS
1	B	321	GLN
1	B	428	HIS
1	B	430	GLN

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Mol	Chain	Res	Type
1	B	558	ASN
1	B	586	GLN
1	B	595	GLN
1	B	625	HIS
1	B	647	GLN
1	C	230	HIS
1	C	254	ASN
1	C	256	HIS
1	C	290	HIS
1	C	321	GLN
1	C	428	HIS
1	C	430	GLN
1	C	558	ASN
1	C	586	GLN
1	C	595	GLN
1	C	625	HIS
1	C	647	GLN
1	D	230	HIS
1	D	254	ASN
1	D	256	HIS
1	D	272	ASN
1	D	290	HIS
1	D	428	HIS
1	D	430	GLN
1	D	558	ASN
1	D	586	GLN
1	D	595	GLN
1	D	625	HIS
1	D	647	GLN
1	E	230	HIS
1	E	254	ASN
1	E	256	HIS
1	E	290	HIS
1	E	321	GLN
1	E	428	HIS
1	E	430	GLN
1	E	558	ASN
1	E	586	GLN
1	E	595	GLN
1	E	625	HIS
1	E	647	GLN
1	F	230	HIS

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Mol	Chain	Res	Type
1	F	254	ASN
1	F	256	HIS
1	F	272	ASN
1	F	290	HIS
1	F	321	GLN
1	F	428	HIS
1	F	430	GLN
1	F	558	ASN
1	F	586	GLN
1	F	595	GLN
1	F	625	HIS
1	F	647	GLN
1	G	230	HIS
1	G	254	ASN
1	G	256	HIS
1	G	290	HIS
1	G	321	GLN
1	G	428	HIS
1	G	430	GLN
1	G	558	ASN
1	G	595	GLN
1	G	625	HIS
1	G	647	GLN
1	H	230	HIS
1	H	254	ASN
1	H	256	HIS
1	H	272	ASN
1	H	290	HIS
1	H	428	HIS
1	H	430	GLN
1	H	558	ASN
1	H	586	GLN
1	H	595	GLN
1	H	625	HIS
1	H	647	GLN
1	I	230	HIS
1	I	254	ASN
1	I	256	HIS
1	I	272	ASN
1	I	290	HIS
1	I	321	GLN
1	I	428	HIS

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Mol	Chain	Res	Type
1	I	430	GLN
1	I	558	ASN
1	I	586	GLN
1	I	595	GLN
1	I	625	HIS
1	I	647	GLN
1	J	230	HIS
1	J	254	ASN
1	J	256	HIS
1	J	272	ASN
1	J	290	HIS
1	J	428	HIS
1	J	430	GLN
1	J	558	ASN
1	J	586	GLN
1	J	595	GLN
1	J	625	HIS
1	J	647	GLN
1	K	230	HIS
1	K	254	ASN
1	K	256	HIS
1	K	290	HIS
1	K	321	GLN
1	K	428	HIS
1	K	430	GLN
1	K	558	ASN
1	K	586	GLN
1	K	595	GLN
1	K	625	HIS
1	K	647	GLN
1	L	230	HIS
1	L	256	HIS
1	L	272	ASN
1	L	290	HIS
1	L	321	GLN
1	L	376	GLN
1	L	428	HIS
1	L	430	GLN
1	L	558	ASN
1	L	586	GLN
1	L	595	GLN
1	L	625	HIS

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Mol	Chain	Res	Type
1	L	647	GLN
1	M	230	HIS
1	M	254	ASN
1	M	256	HIS
1	M	272	ASN
1	M	290	HIS
1	M	321	GLN
1	M	428	HIS
1	M	430	GLN
1	M	558	ASN
1	M	586	GLN
1	M	595	GLN
1	M	625	HIS
1	M	647	GLN
1	N	230	HIS
1	N	254	ASN
1	N	256	HIS
1	N	272	ASN
1	N	290	HIS
1	N	321	GLN
1	N	428	HIS
1	N	430	GLN
1	N	558	ASN
1	N	586	GLN
1	N	595	GLN
1	N	625	HIS
1	N	647	GLN
1	O	230	HIS
1	O	254	ASN
1	O	256	HIS
1	O	272	ASN
1	O	290	HIS
1	O	428	HIS
1	O	430	GLN
1	O	558	ASN
1	O	586	GLN
1	O	595	GLN
1	O	625	HIS
1	O	647	GLN
1	P	230	HIS
1	P	254	ASN
1	P	256	HIS

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Mol	Chain	Res	Type
1	P	272	ASN
1	P	290	HIS
1	P	321	GLN
1	P	428	HIS
1	P	430	GLN
1	P	558	ASN
1	P	586	GLN
1	P	595	GLN
1	P	625	HIS
1	P	647	GLN
1	Q	230	HIS
1	Q	254	ASN
1	Q	256	HIS
1	Q	272	ASN
1	Q	290	HIS
1	Q	321	GLN
1	Q	428	HIS
1	Q	430	GLN
1	Q	558	ASN
1	Q	586	GLN
1	Q	595	GLN
1	Q	625	HIS
1	Q	647	GLN
1	R	230	HIS
1	R	254	ASN
1	R	256	HIS
1	R	272	ASN
1	R	290	HIS
1	R	428	HIS
1	R	430	GLN
1	R	558	ASN
1	R	586	GLN
1	R	595	GLN
1	R	625	HIS
1	R	647	GLN
1	S	230	HIS
1	S	254	ASN
1	S	256	HIS
1	S	272	ASN
1	S	290	HIS
1	S	321	GLN
1	S	428	HIS

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Mol	Chain	Res	Type
1	S	430	GLN
1	S	558	ASN
1	S	595	GLN
1	S	625	HIS
1	S	647	GLN
1	T	230	HIS
1	T	254	ASN
1	T	256	HIS
1	T	272	ASN
1	T	290	HIS
1	T	321	GLN
1	T	428	HIS
1	T	430	GLN
1	T	558	ASN
1	T	586	GLN
1	T	595	GLN
1	T	625	HIS
1	T	647	GLN
1	U	230	HIS
1	U	254	ASN
1	U	256	HIS
1	U	272	ASN
1	U	290	HIS
1	U	321	GLN
1	U	428	HIS
1	U	430	GLN
1	U	558	ASN
1	U	586	GLN
1	U	595	GLN
1	U	625	HIS
1	U	647	GLN
1	V	230	HIS
1	V	254	ASN
1	V	256	HIS
1	V	272	ASN
1	V	290	HIS
1	V	321	GLN
1	V	428	HIS
1	V	430	GLN
1	V	558	ASN
1	V	586	GLN
1	V	595	GLN

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Mol	Chain	Res	Type
1	V	625	HIS
1	V	647	GLN
1	W	230	HIS
1	W	254	ASN
1	W	256	HIS
1	W	272	ASN
1	W	290	HIS
1	W	321	GLN
1	W	428	HIS
1	W	430	GLN
1	W	558	ASN
1	W	586	GLN
1	W	595	GLN
1	W	625	HIS
1	W	647	GLN
1	X	230	HIS
1	X	256	HIS
1	X	272	ASN
1	X	290	HIS
1	X	321	GLN
1	X	376	GLN
1	X	428	HIS
1	X	430	GLN
1	X	558	ASN
1	X	586	GLN
1	X	595	GLN
1	X	625	HIS
1	X	647	GLN
1	Y	230	HIS
1	Y	254	ASN
1	Y	256	HIS
1	Y	272	ASN
1	Y	290	HIS
1	Y	321	GLN
1	Y	428	HIS
1	Y	430	GLN
1	Y	558	ASN
1	Y	586	GLN
1	Y	595	GLN
1	Y	625	HIS
1	Y	647	GLN
1	Z	230	HIS

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Mol	Chain	Res	Type
1	Z	254	ASN
1	Z	256	HIS
1	Z	272	ASN
1	Z	290	HIS
1	Z	321	GLN
1	Z	428	HIS
1	Z	430	GLN
1	Z	558	ASN
1	Z	595	GLN
1	Z	625	HIS
1	Z	647	GLN
1	a	230	HIS
1	a	254	ASN
1	a	256	HIS
1	a	272	ASN
1	a	290	HIS
1	a	321	GLN
1	a	428	HIS
1	a	430	GLN
1	a	558	ASN
1	a	586	GLN
1	a	595	GLN
1	a	625	HIS
1	a	647	GLN
1	b	230	HIS
1	b	254	ASN
1	b	256	HIS
1	b	272	ASN
1	b	290	HIS
1	b	321	GLN
1	b	428	HIS
1	b	430	GLN
1	b	558	ASN
1	b	586	GLN
1	b	595	GLN
1	b	625	HIS
1	b	647	GLN
1	c	230	HIS
1	c	254	ASN
1	c	256	HIS
1	c	272	ASN
1	c	290	HIS

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Mol	Chain	Res	Type
1	c	321	GLN
1	c	428	HIS
1	c	430	GLN
1	c	558	ASN
1	c	586	GLN
1	c	595	GLN
1	c	625	HIS
1	c	647	GLN
1	d	230	HIS
1	d	254	ASN
1	d	256	HIS
1	d	272	ASN
1	d	290	HIS
1	d	428	HIS
1	d	430	GLN
1	d	558	ASN
1	d	586	GLN
1	d	595	GLN
1	d	625	HIS
1	d	647	GLN
1	e	230	HIS
1	e	254	ASN
1	e	256	HIS
1	e	272	ASN
1	e	290	HIS
1	e	321	GLN
1	e	428	HIS
1	e	430	GLN
1	e	558	ASN
1	e	586	GLN
1	e	595	GLN
1	e	625	HIS
1	e	647	GLN
1	f	230	HIS
1	f	254	ASN
1	f	256	HIS
1	f	272	ASN
1	f	290	HIS
1	f	321	GLN
1	f	428	HIS
1	f	430	GLN
1	f	558	ASN

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Mol	Chain	Res	Type
1	f	586	GLN
1	f	595	GLN
1	f	625	HIS
1	f	647	GLN
1	g	230	HIS
1	g	254	ASN
1	g	256	HIS
1	g	272	ASN
1	g	290	HIS
1	g	321	GLN
1	g	428	HIS
1	g	430	GLN
1	g	558	ASN
1	g	586	GLN
1	g	595	GLN
1	g	625	HIS
1	g	647	GLN
1	h	230	HIS
1	h	254	ASN
1	h	256	HIS
1	h	272	ASN
1	h	290	HIS
1	h	321	GLN
1	h	428	HIS
1	h	430	GLN
1	h	558	ASN
1	h	586	GLN
1	h	595	GLN
1	h	625	HIS
1	h	647	GLN
1	i	230	HIS
1	i	256	HIS
1	i	272	ASN
1	i	290	HIS
1	i	321	GLN
1	i	376	GLN
1	i	428	HIS
1	i	430	GLN
1	i	558	ASN
1	i	586	GLN
1	i	595	GLN
1	i	625	HIS

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Mol	Chain	Res	Type
1	i	647	GLN
1	j	230	HIS
1	j	254	ASN
1	j	256	HIS
1	j	272	ASN
1	j	290	HIS
1	j	321	GLN
1	j	428	HIS
1	j	430	GLN
1	j	558	ASN
1	j	586	GLN
1	j	595	GLN
1	j	625	HIS
1	j	647	GLN
1	k	230	HIS
1	k	254	ASN
1	k	256	HIS
1	k	272	ASN
1	k	290	HIS
1	k	428	HIS
1	k	430	GLN
1	k	558	ASN
1	k	586	GLN
1	k	595	GLN
1	k	625	HIS
1	k	647	GLN
1	l	230	HIS
1	l	254	ASN
1	l	256	HIS
1	l	272	ASN
1	l	290	HIS
1	l	321	GLN
1	l	428	HIS
1	l	430	GLN
1	l	558	ASN
1	l	586	GLN
1	l	595	GLN
1	l	625	HIS
1	l	647	GLN
1	m	230	HIS
1	m	254	ASN
1	m	256	HIS

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Mol	Chain	Res	Type
1	m	272	ASN
1	m	290	HIS
1	m	321	GLN
1	m	428	HIS
1	m	430	GLN
1	m	558	ASN
1	m	586	GLN
1	m	595	GLN
1	m	625	HIS
1	m	647	GLN
1	n	230	HIS
1	n	254	ASN
1	n	256	HIS
1	n	272	ASN
1	n	290	HIS
1	n	428	HIS
1	n	430	GLN
1	n	558	ASN
1	n	586	GLN
1	n	595	GLN
1	n	625	HIS
1	n	647	GLN
1	o	230	HIS
1	o	254	ASN
1	o	256	HIS
1	o	272	ASN
1	o	290	HIS
1	o	321	GLN
1	o	428	HIS
1	o	430	GLN
1	o	558	ASN
1	o	586	GLN
1	o	595	GLN
1	o	625	HIS
1	o	647	GLN
1	p	230	HIS
1	p	254	ASN
1	p	256	HIS
1	p	272	ASN
1	p	290	HIS
1	p	321	GLN
1	p	428	HIS

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Mol	Chain	Res	Type
1	p	430	GLN
1	p	558	ASN
1	p	586	GLN
1	p	595	GLN
1	p	625	HIS
1	p	647	GLN
1	q	230	HIS
1	q	254	ASN
1	q	256	HIS
1	q	272	ASN
1	q	290	HIS
1	q	321	GLN
1	q	428	HIS
1	q	430	GLN
1	q	558	ASN
1	q	586	GLN
1	q	595	GLN
1	q	625	HIS
1	q	647	GLN
1	r	230	HIS
1	r	254	ASN
1	r	256	HIS
1	r	272	ASN
1	r	290	HIS
1	r	321	GLN
1	r	428	HIS
1	r	430	GLN
1	r	558	ASN
1	r	595	GLN
1	r	625	HIS
1	r	647	GLN
1	s	230	HIS
1	s	254	ASN
1	s	256	HIS
1	s	272	ASN
1	s	290	HIS
1	s	428	HIS
1	s	430	GLN
1	s	558	ASN
1	s	586	GLN
1	s	595	GLN
1	s	625	HIS

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Mol	Chain	Res	Type
1	s	647	GLN
1	t	230	HIS
1	t	254	ASN
1	t	256	HIS
1	t	290	HIS
1	t	321	GLN
1	t	428	HIS
1	t	430	GLN
1	t	558	ASN
1	t	595	GLN
1	t	625	HIS
1	t	647	GLN
1	u	230	HIS
1	u	254	ASN
1	u	256	HIS
1	u	272	ASN
1	u	290	HIS
1	u	321	GLN
1	u	428	HIS
1	u	430	GLN
1	u	558	ASN
1	u	586	GLN
1	u	595	GLN
1	u	625	HIS
1	u	647	GLN
1	v	230	HIS
1	v	254	ASN
1	v	256	HIS
1	v	290	HIS
1	v	321	GLN
1	v	428	HIS
1	v	430	GLN
1	v	558	ASN
1	v	595	GLN
1	v	625	HIS
1	v	647	GLN
1	w	230	HIS
1	w	254	ASN
1	w	256	HIS
1	w	290	HIS
1	w	321	GLN
1	w	428	HIS

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Mol	Chain	Res	Type
1	w	430	GLN
1	w	558	ASN
1	w	586	GLN
1	w	595	GLN
1	w	625	HIS
1	w	647	GLN
1	x	230	HIS
1	x	254	ASN
1	x	256	HIS
1	x	272	ASN
1	x	290	HIS
1	x	321	GLN
1	x	428	HIS
1	x	430	GLN
1	x	558	ASN
1	x	586	GLN
1	x	595	GLN
1	x	625	HIS
1	x	647	GLN
1	y	230	HIS
1	y	254	ASN
1	y	256	HIS
1	y	272	ASN
1	y	290	HIS
1	y	321	GLN
1	y	428	HIS
1	y	430	GLN
1	y	558	ASN
1	y	586	GLN
1	y	595	GLN
1	y	625	HIS
1	y	647	GLN
1	z	230	HIS
1	z	256	HIS
1	z	272	ASN
1	z	290	HIS
1	z	321	GLN
1	z	376	GLN
1	z	428	HIS
1	z	430	GLN
1	z	558	ASN
1	z	586	GLN

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Mol	Chain	Res	Type
1	z	595	GLN
1	z	625	HIS
1	z	647	GLN
1	1	230	HIS
1	1	254	ASN
1	1	256	HIS
1	1	290	HIS
1	1	321	GLN
1	1	428	HIS
1	1	430	GLN
1	1	558	ASN
1	1	586	GLN
1	1	595	GLN
1	1	625	HIS
1	1	647	GLN
1	2	230	HIS
1	2	254	ASN
1	2	256	HIS
1	2	272	ASN
1	2	290	HIS
1	2	428	HIS
1	2	430	GLN
1	2	558	ASN
1	2	586	GLN
1	2	595	GLN
1	2	625	HIS
1	2	647	GLN
1	3	230	HIS
1	3	254	ASN
1	3	256	HIS
1	3	272	ASN
1	3	290	HIS
1	3	321	GLN
1	3	428	HIS
1	3	430	GLN
1	3	558	ASN
1	3	586	GLN
1	3	595	GLN
1	3	625	HIS
1	3	647	GLN
1	4	230	HIS
1	4	254	ASN

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Mol	Chain	Res	Type
1	4	256	HIS
1	4	272	ASN
1	4	290	HIS
1	4	321	GLN
1	4	428	HIS
1	4	430	GLN
1	4	558	ASN
1	4	586	GLN
1	4	595	GLN
1	4	625	HIS
1	4	647	GLN
1	5	230	HIS
1	5	254	ASN
1	5	256	HIS
1	5	272	ASN
1	5	290	HIS
1	5	428	HIS
1	5	430	GLN
1	5	558	ASN
1	5	586	GLN
1	5	595	GLN
1	5	625	HIS
1	5	647	GLN
1	6	230	HIS
1	6	254	ASN
1	6	256	HIS
1	6	272	ASN
1	6	290	HIS
1	6	321	GLN
1	6	428	HIS
1	6	430	GLN
1	6	558	ASN
1	6	586	GLN
1	6	595	GLN
1	6	625	HIS
1	6	647	GLN
1	7	230	HIS
1	7	254	ASN
1	7	256	HIS
1	7	272	ASN
1	7	290	HIS
1	7	321	GLN

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Mol	Chain	Res	Type
1	7	428	HIS
1	7	430	GLN
1	7	558	ASN
1	7	586	GLN
1	7	595	GLN
1	7	625	HIS
1	7	647	GLN
1	8	230	HIS
1	8	254	ASN
1	8	256	HIS
1	8	272	ASN
1	8	290	HIS
1	8	321	GLN
1	8	428	HIS
1	8	430	GLN
1	8	558	ASN
1	8	595	GLN
1	8	625	HIS
1	8	647	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

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	7	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	4	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	P	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	V	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	c	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	e	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	g	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	k	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	I	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	T	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	X	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	b	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	p	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	H	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	v	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	M	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	n	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	f	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	x	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	m	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	U	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	t	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	Y	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	w	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	C	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	j	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	l	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	y	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	a	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	d	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	8	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	E	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	o	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	D5M	N	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	r	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	u	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	Q	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)
2	D5M	K	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	J	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	1	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	O	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	D	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	R	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	L	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	i	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	S	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	Z	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	z	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	G	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	A	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	3	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	W	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	6	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	2	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	h	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	q	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	s	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	F	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	B	801	-	24,24,24	0.49	0	35,36,36	0.72	1 (2%)
2	D5M	5	801	-	24,24,24	0.50	0	35,36,36	0.72	1 (2%)

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	7	801	-	-	0/10/22/22	0/3/3/3
2	D5M	4	801	-	-	0/10/22/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	P	801	-	-	0/10/22/22	0/3/3/3
2	D5M	V	801	-	-	0/10/22/22	0/3/3/3
2	D5M	c	801	-	-	0/10/22/22	0/3/3/3
2	D5M	e	801	-	-	0/10/22/22	0/3/3/3
2	D5M	g	801	-	-	0/10/22/22	0/3/3/3
2	D5M	k	801	-	-	0/10/22/22	0/3/3/3
2	D5M	I	801	-	-	0/10/22/22	0/3/3/3
2	D5M	T	801	-	-	0/10/22/22	0/3/3/3
2	D5M	X	801	-	-	0/10/22/22	0/3/3/3
2	D5M	b	801	-	-	0/10/22/22	0/3/3/3
2	D5M	p	801	-	-	0/10/22/22	0/3/3/3
2	D5M	H	801	-	-	0/10/22/22	0/3/3/3
2	D5M	v	801	-	-	0/10/22/22	0/3/3/3
2	D5M	M	801	-	-	0/10/22/22	0/3/3/3
2	D5M	n	801	-	-	0/10/22/22	0/3/3/3
2	D5M	f	801	-	-	0/10/22/22	0/3/3/3
2	D5M	x	801	-	-	0/10/22/22	0/3/3/3
2	D5M	m	801	-	-	0/10/22/22	0/3/3/3
2	D5M	U	801	-	-	0/10/22/22	0/3/3/3
2	D5M	t	801	-	-	0/10/22/22	0/3/3/3
2	D5M	Y	801	-	-	0/10/22/22	0/3/3/3
2	D5M	w	801	-	-	0/10/22/22	0/3/3/3
2	D5M	C	801	-	-	0/10/22/22	0/3/3/3
2	D5M	j	801	-	-	0/10/22/22	0/3/3/3
2	D5M	l	801	-	-	0/10/22/22	0/3/3/3
2	D5M	y	801	-	-	0/10/22/22	0/3/3/3
2	D5M	a	801	-	-	0/10/22/22	0/3/3/3
2	D5M	d	801	-	-	0/10/22/22	0/3/3/3
2	D5M	8	801	-	-	0/10/22/22	0/3/3/3
2	D5M	E	801	-	-	0/10/22/22	0/3/3/3
2	D5M	o	801	-	-	0/10/22/22	0/3/3/3
2	D5M	N	801	-	-	0/10/22/22	0/3/3/3
2	D5M	r	801	-	-	0/10/22/22	0/3/3/3
2	D5M	u	801	-	-	0/10/22/22	0/3/3/3
2	D5M	Q	801	-	-	0/10/22/22	0/3/3/3
2	D5M	K	801	-	-	0/10/22/22	0/3/3/3
2	D5M	J	801	-	-	0/10/22/22	0/3/3/3
2	D5M	1	801	-	-	0/10/22/22	0/3/3/3
2	D5M	O	801	-	-	0/10/22/22	0/3/3/3
2	D5M	D	801	-	-	0/10/22/22	0/3/3/3
2	D5M	R	801	-	-	0/10/22/22	0/3/3/3
2	D5M	L	801	-	-	0/10/22/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	i	801	-	-	0/10/22/22	0/3/3/3
2	D5M	S	801	-	-	0/10/22/22	0/3/3/3
2	D5M	Z	801	-	-	0/10/22/22	0/3/3/3
2	D5M	z	801	-	-	0/10/22/22	0/3/3/3
2	D5M	G	801	-	-	0/10/22/22	0/3/3/3
2	D5M	A	801	-	-	0/10/22/22	0/3/3/3
2	D5M	3	801	-	-	0/10/22/22	0/3/3/3
2	D5M	W	801	-	-	0/10/22/22	0/3/3/3
2	D5M	6	801	-	-	0/10/22/22	0/3/3/3
2	D5M	2	801	-	-	0/10/22/22	0/3/3/3
2	D5M	h	801	-	-	0/10/22/22	0/3/3/3
2	D5M	q	801	-	-	0/10/22/22	0/3/3/3
2	D5M	s	801	-	-	0/10/22/22	0/3/3/3
2	D5M	F	801	-	-	0/10/22/22	0/3/3/3
2	D5M	B	801	-	-	0/10/22/22	0/3/3/3
2	D5M	5	801	-	-	0/10/22/22	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	C	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	N	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	g	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	p	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	j	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	H	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	W	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	k	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	5	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	6	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	M	801	D5M	O2P-P-O1P	2.23	119.52	110.83
2	A	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	F	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	a	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	b	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	c	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	d	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	e	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	f	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	v	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	y	801	D5M	O2P-P-O1P	2.23	119.51	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	O	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	X	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	i	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	l	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	n	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	o	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	w	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	t	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	D	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	Y	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	7	801	D5M	O2P-P-O1P	2.23	119.51	110.83
2	J	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	P	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	S	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	r	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	2	801	D5M	O2P-P-O1P	2.23	119.50	110.83
2	I	801	D5M	O2P-P-O1P	2.22	119.50	110.83
2	V	801	D5M	O2P-P-O1P	2.22	119.50	110.83
2	u	801	D5M	O2P-P-O1P	2.22	119.50	110.83
2	B	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	L	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	U	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	s	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	z	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	1	801	D5M	O2P-P-O1P	2.22	119.49	110.83
2	Q	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	E	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	G	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	Z	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	h	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	8	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	K	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	T	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	m	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	4	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	x	801	D5M	O2P-P-O1P	2.22	119.48	110.83
2	R	801	D5M	O2P-P-O1P	2.22	119.47	110.83
2	q	801	D5M	O2P-P-O1P	2.22	119.47	110.83

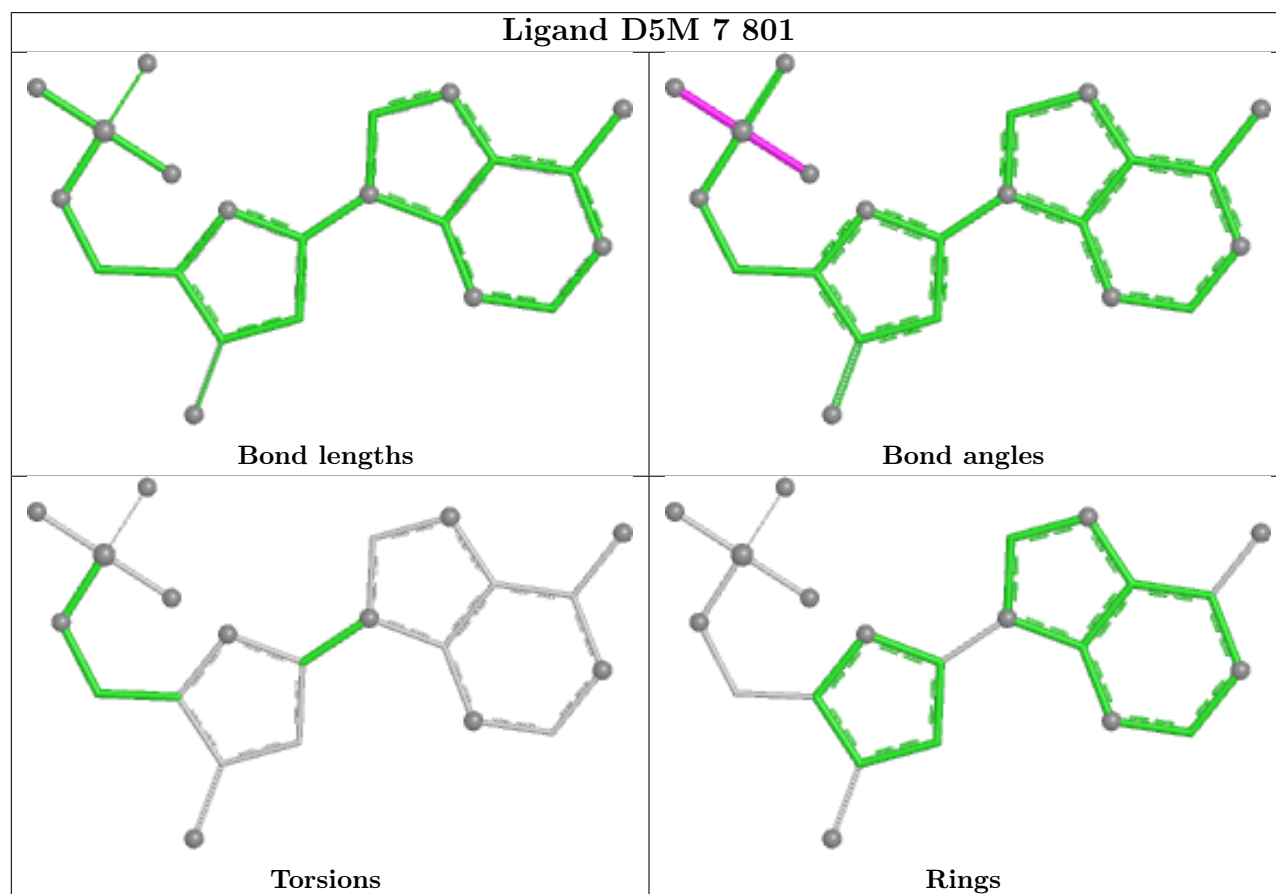
There are no chirality outliers.

There are no torsion outliers.

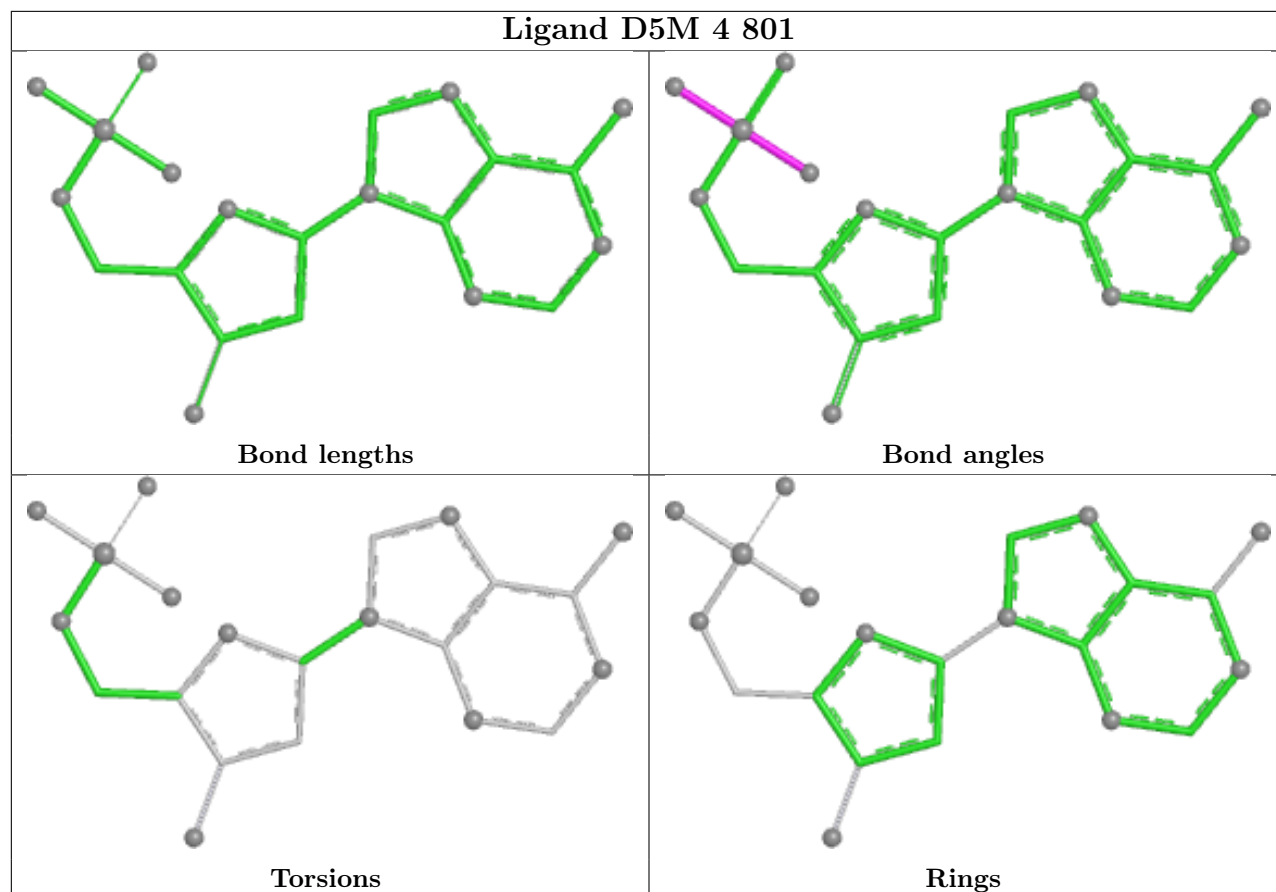
There are no ring outliers.

No monomer is involved in short contacts.

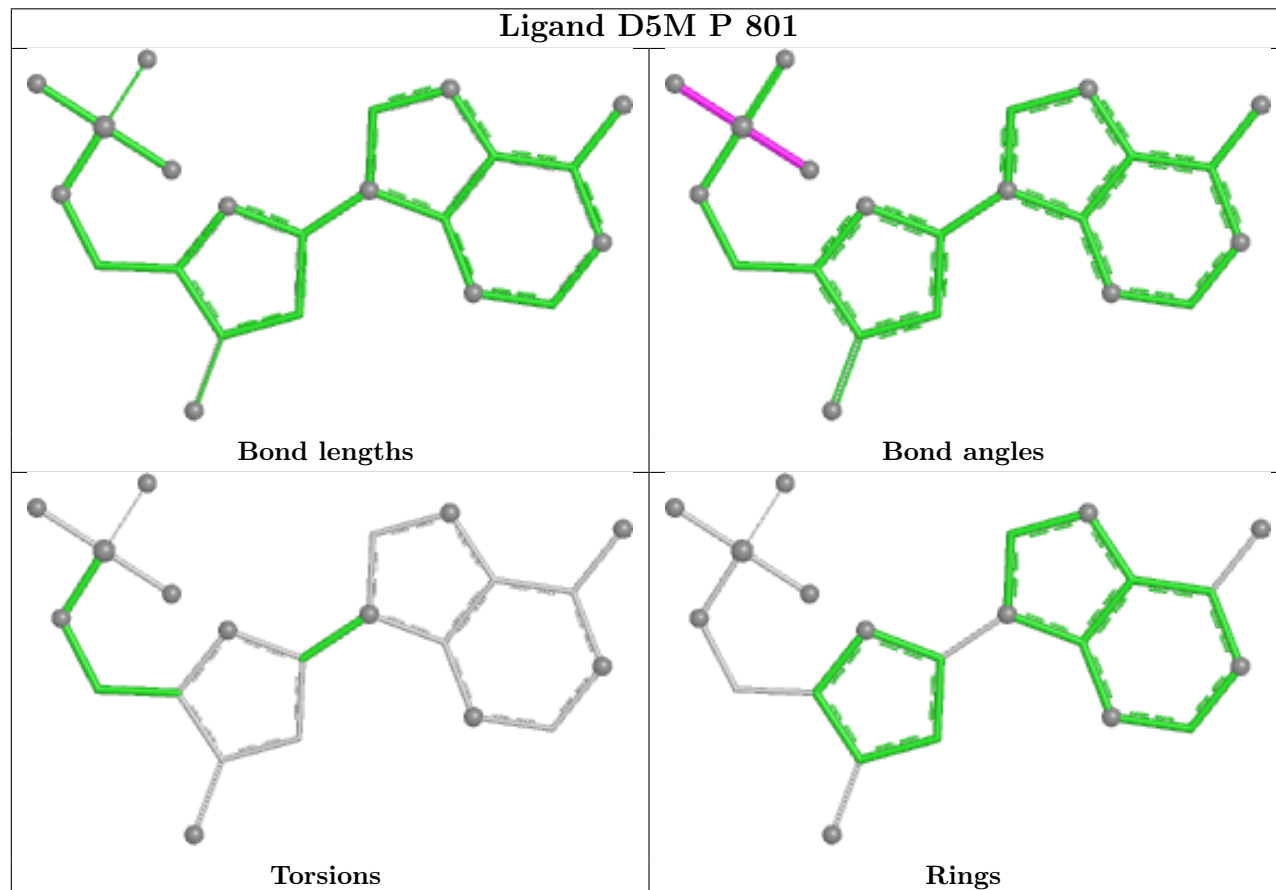
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

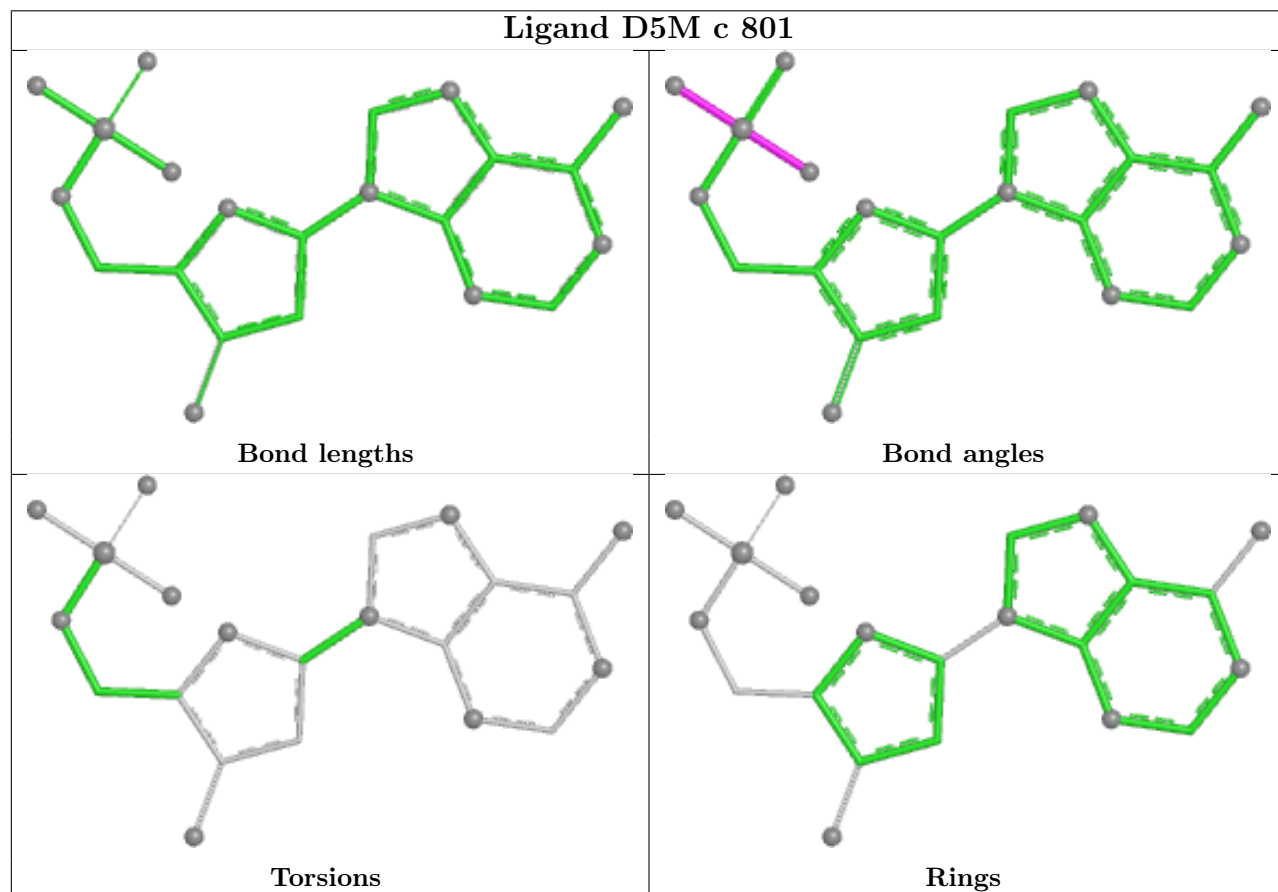
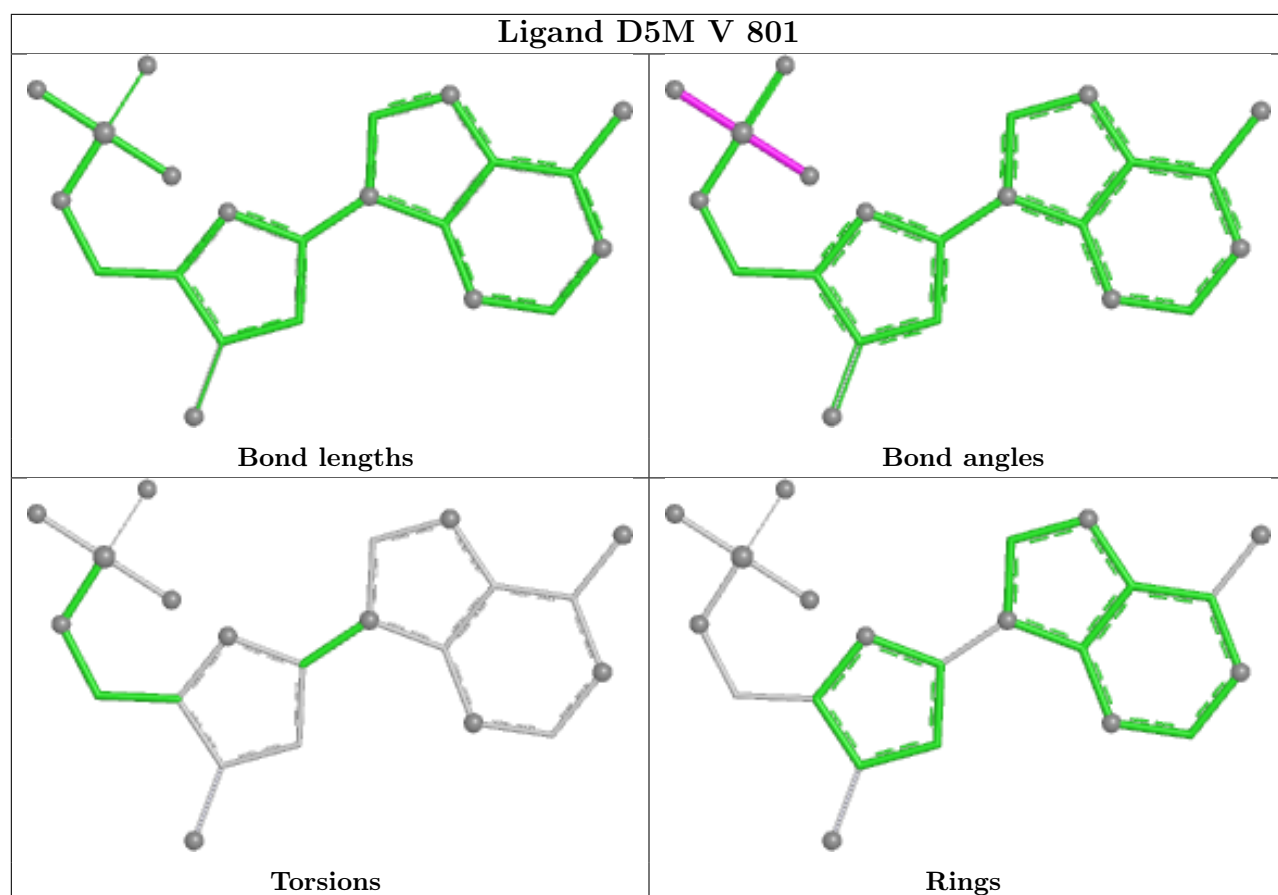


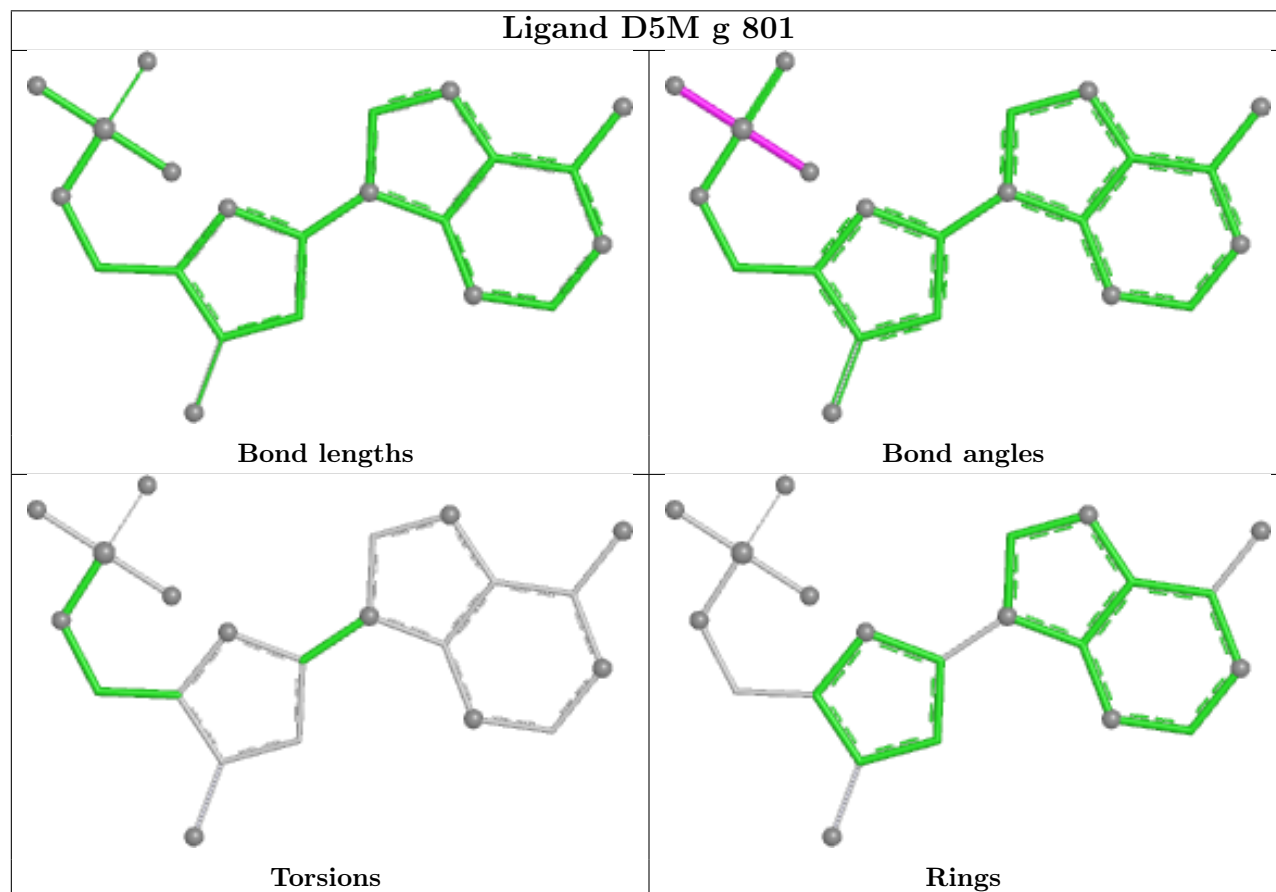
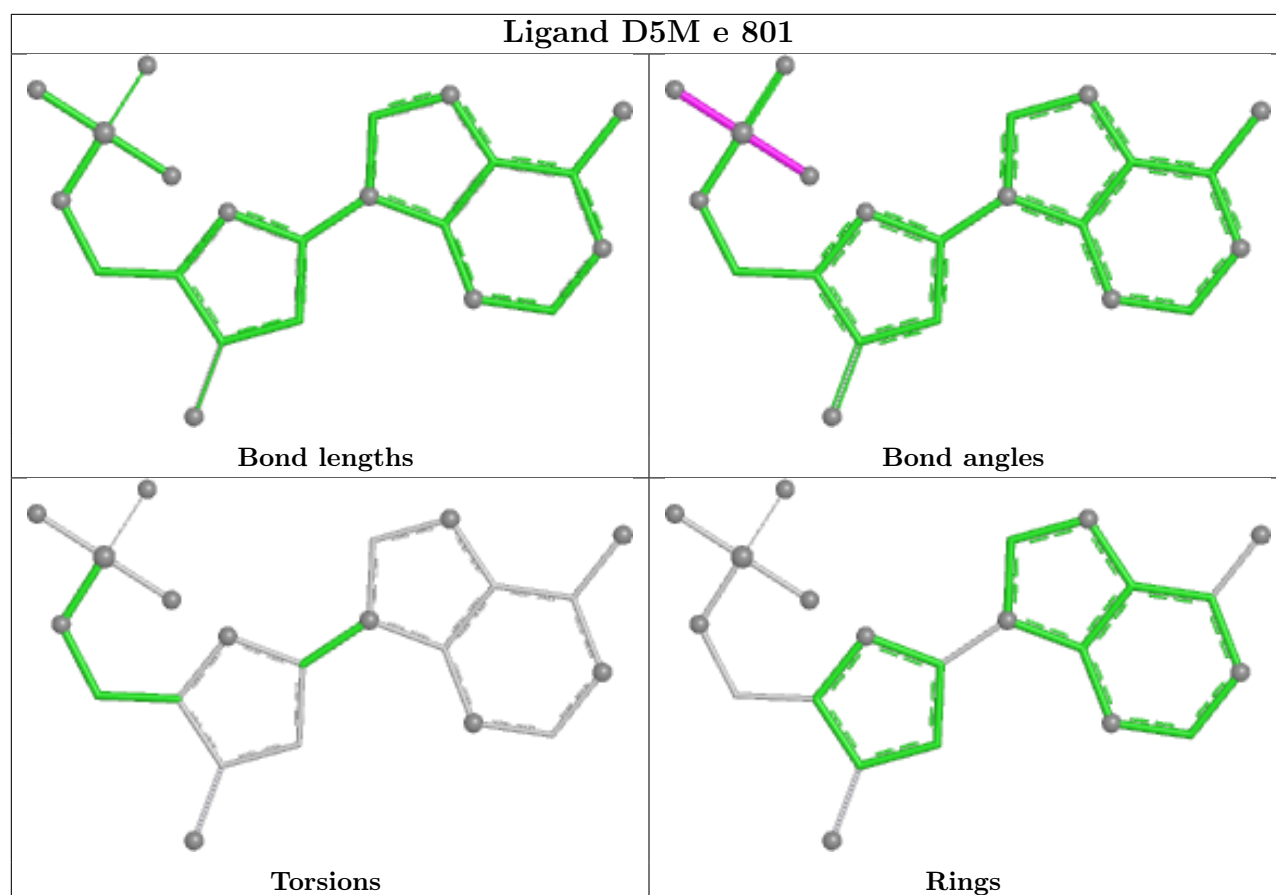
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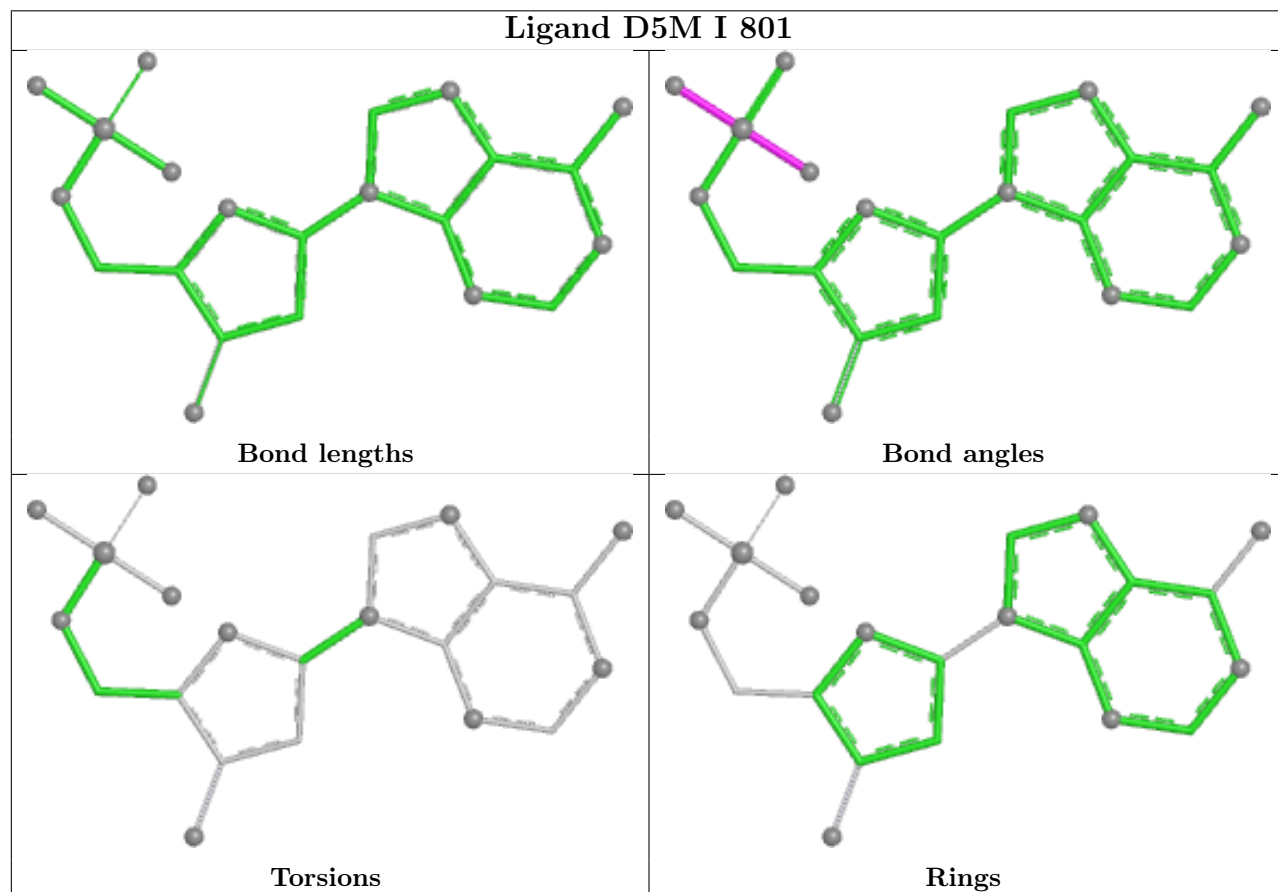
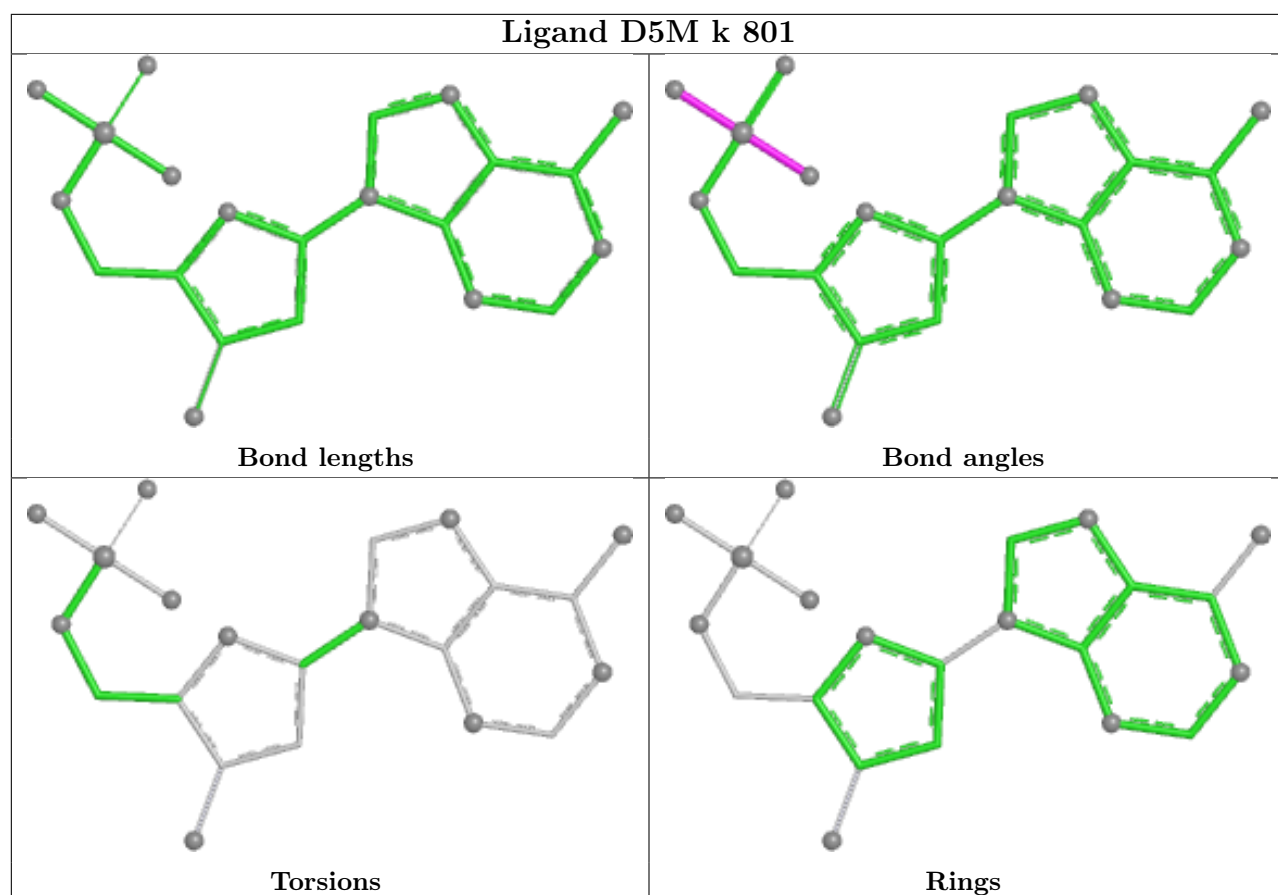


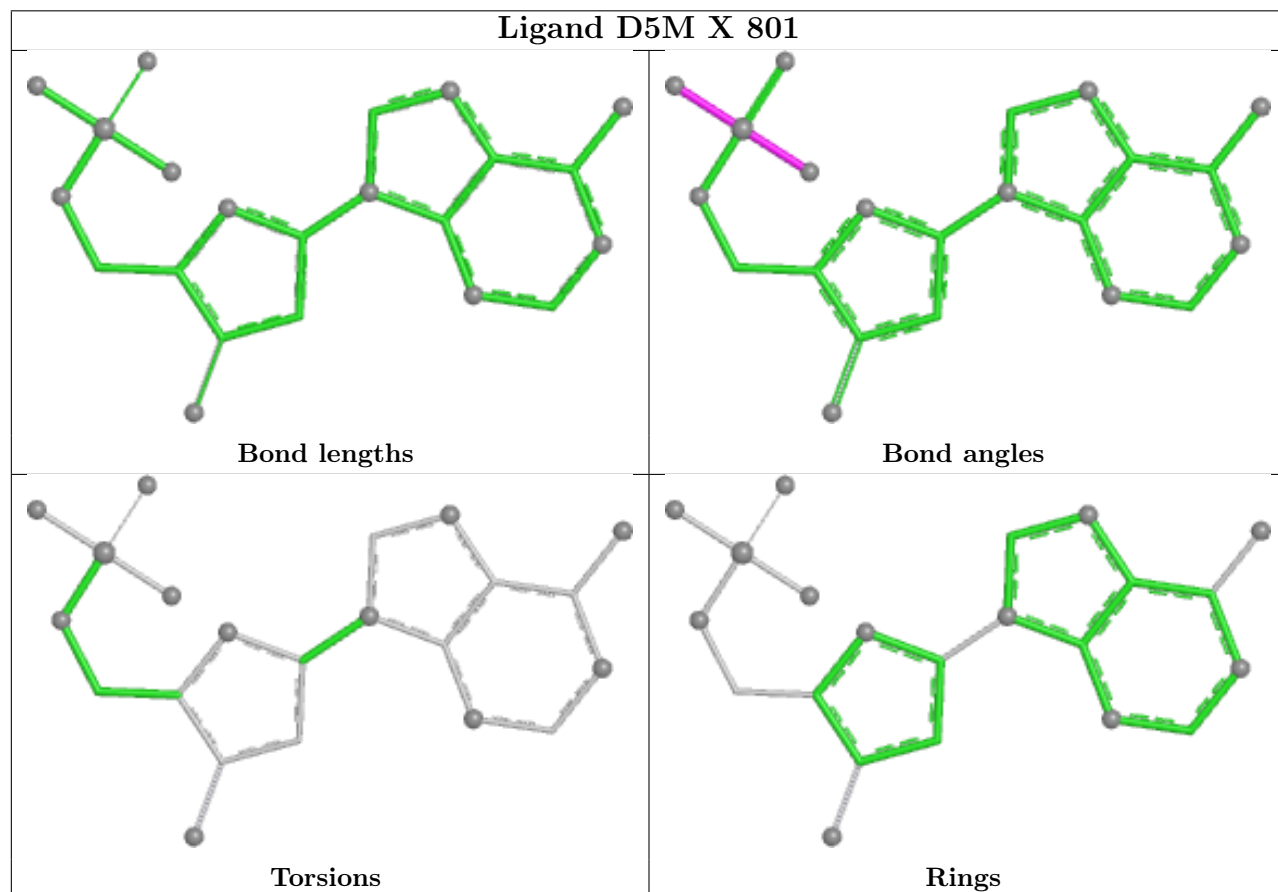
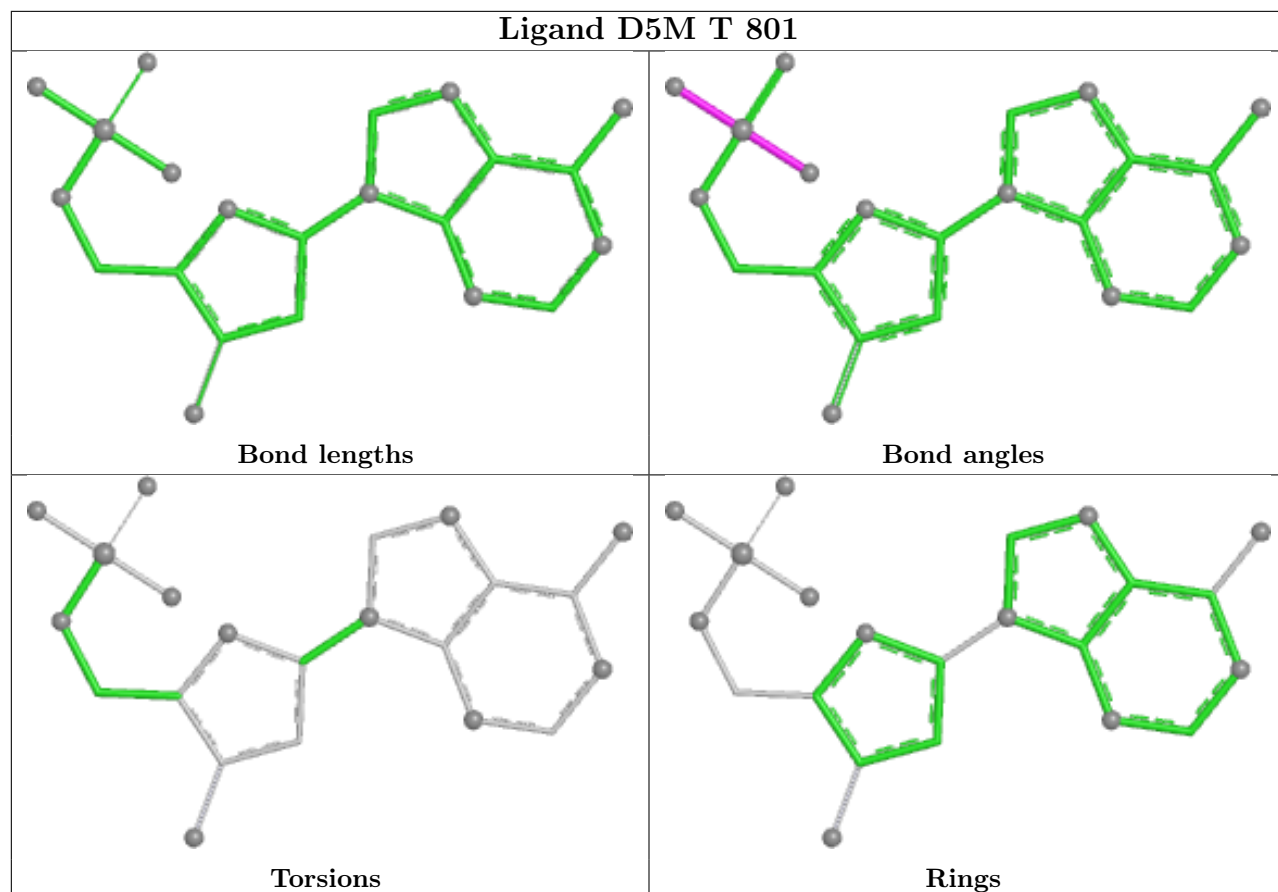
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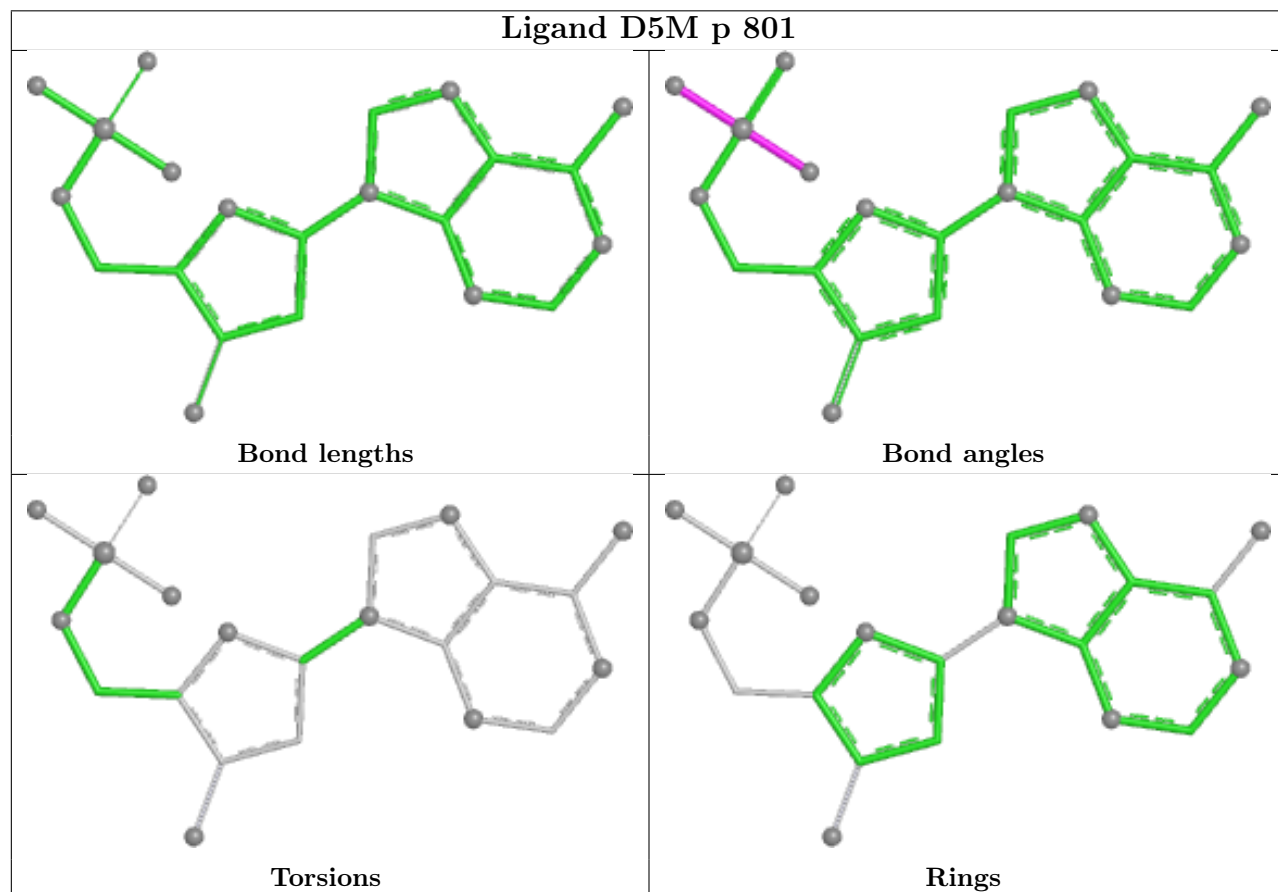
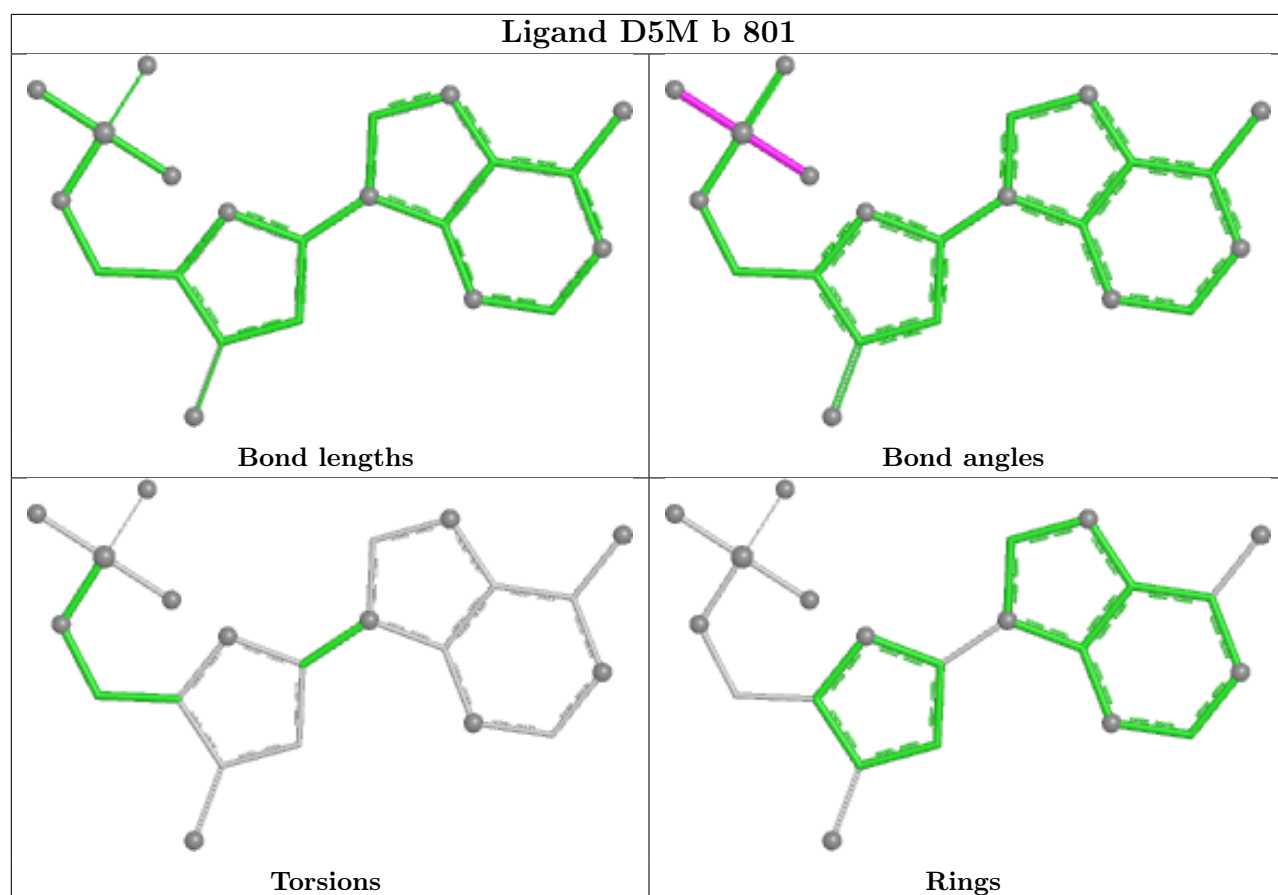


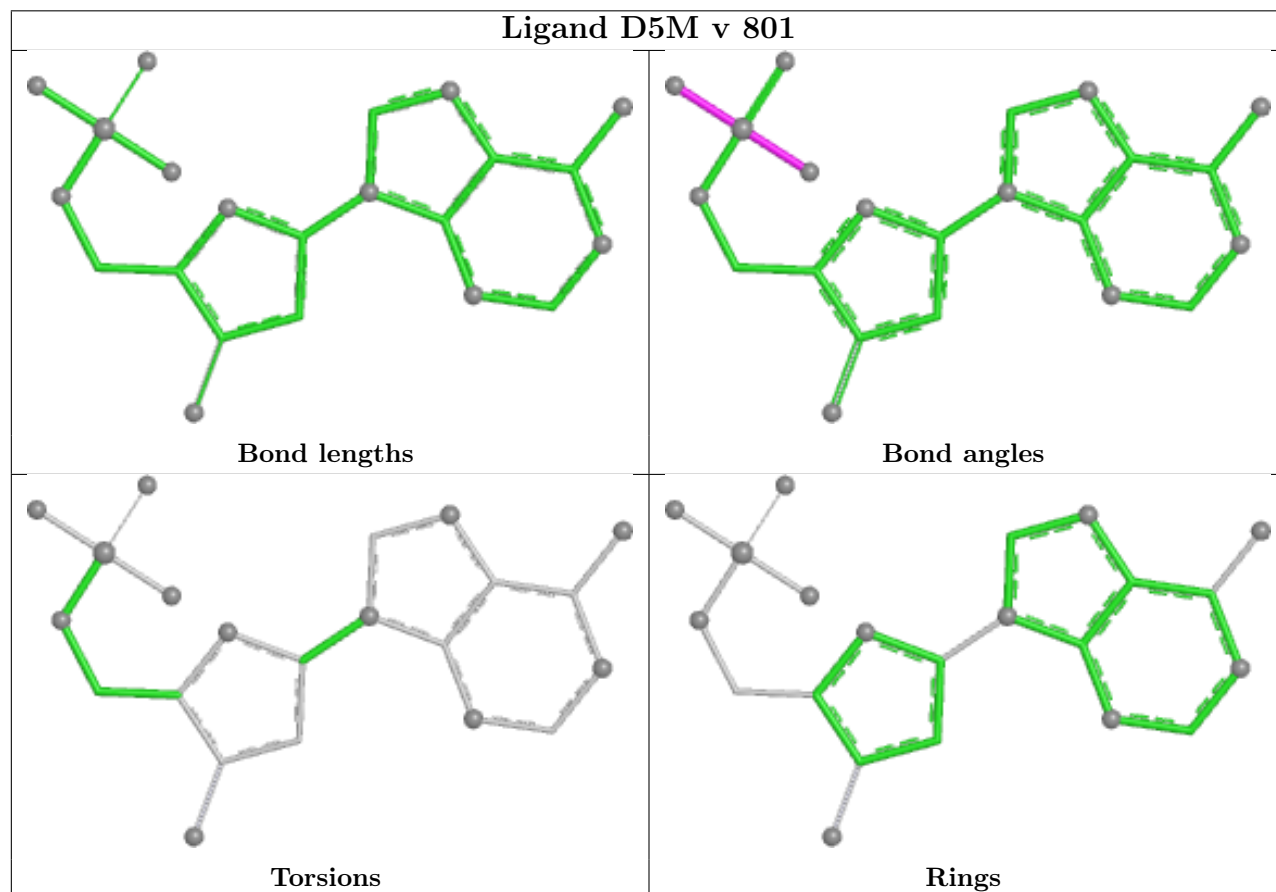
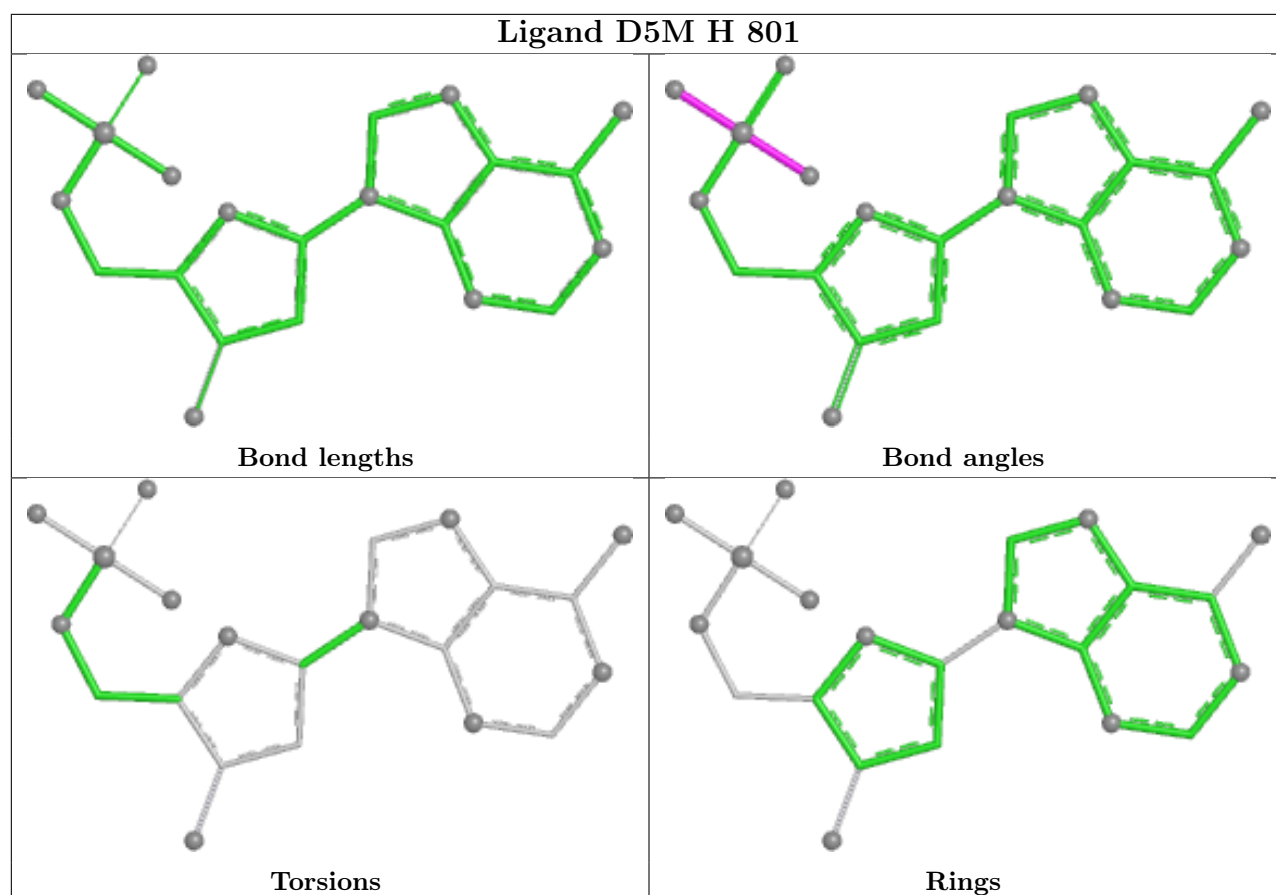


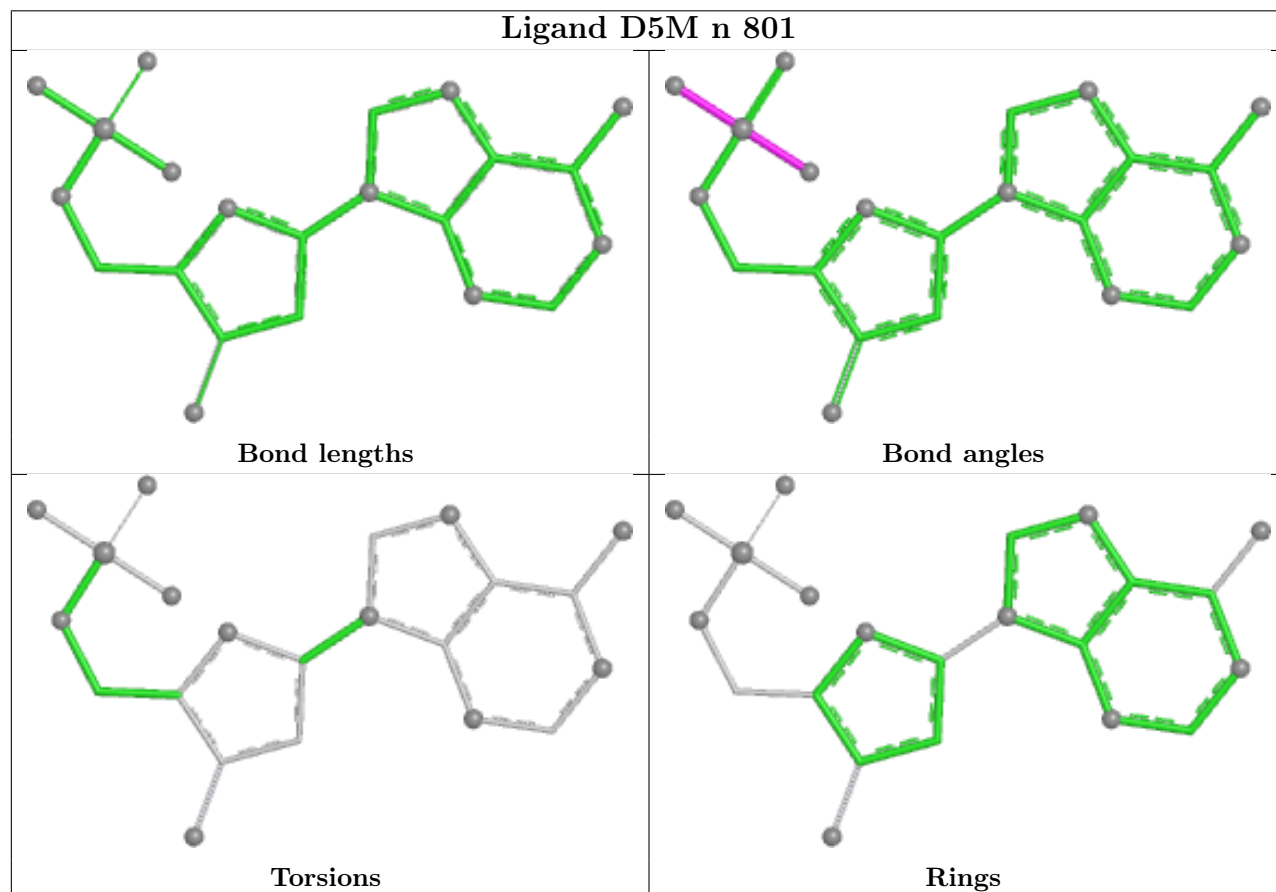
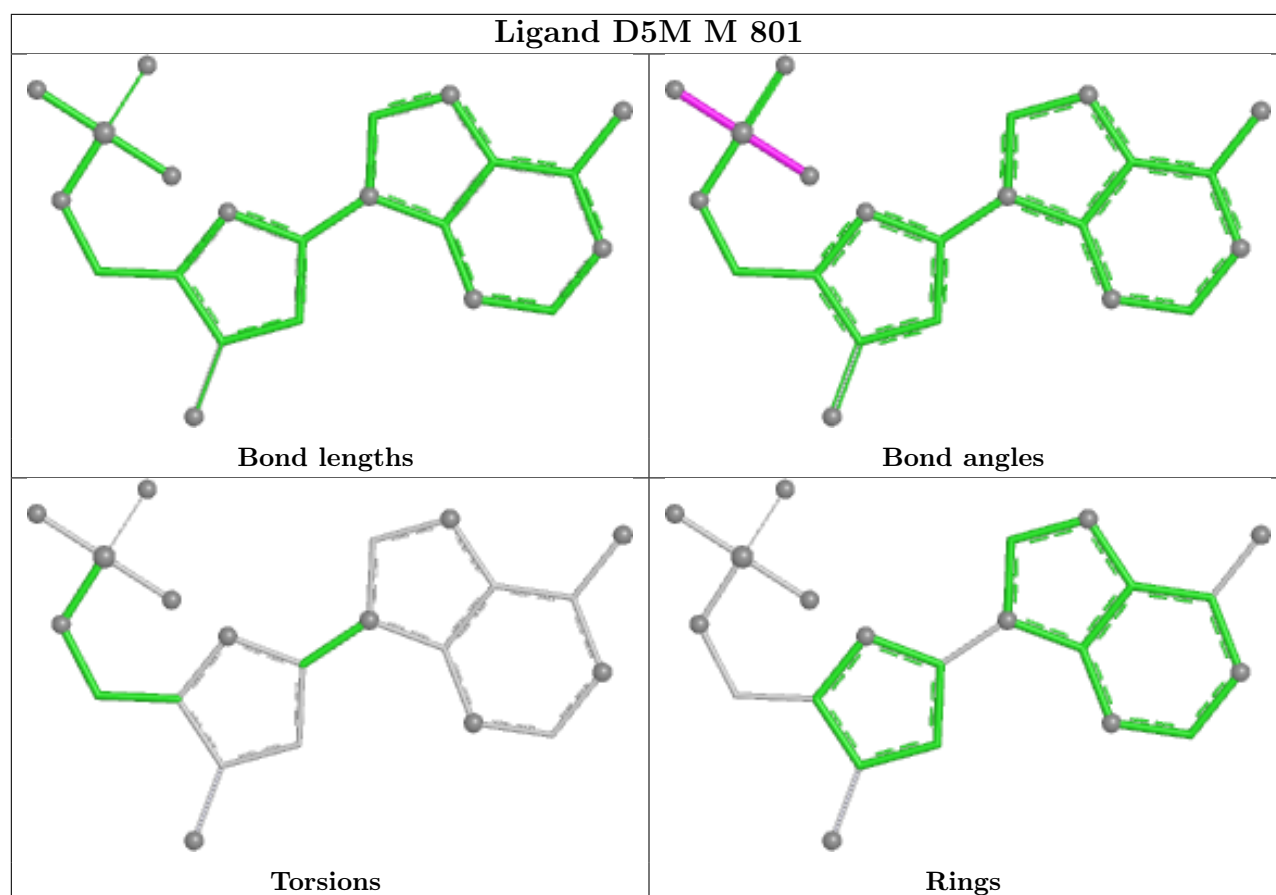


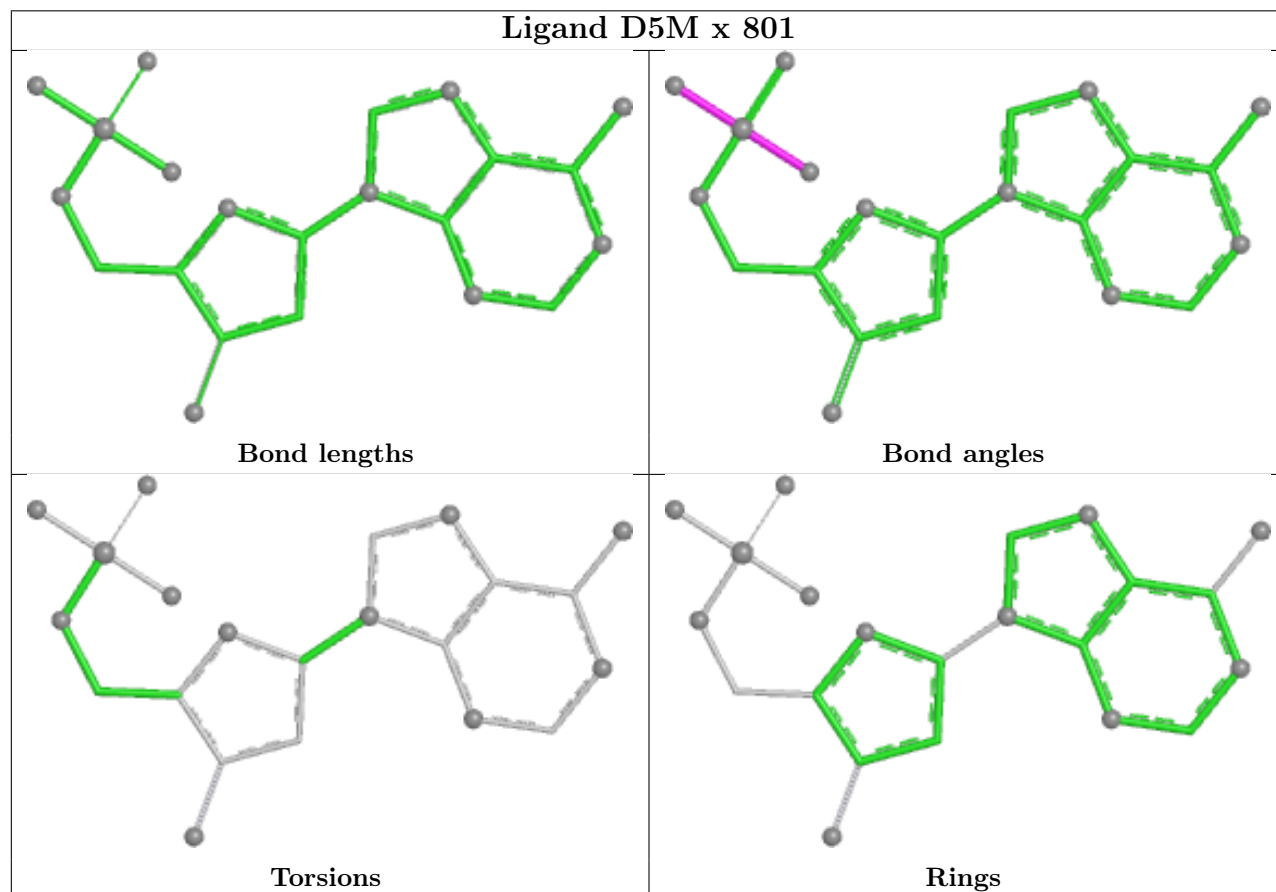
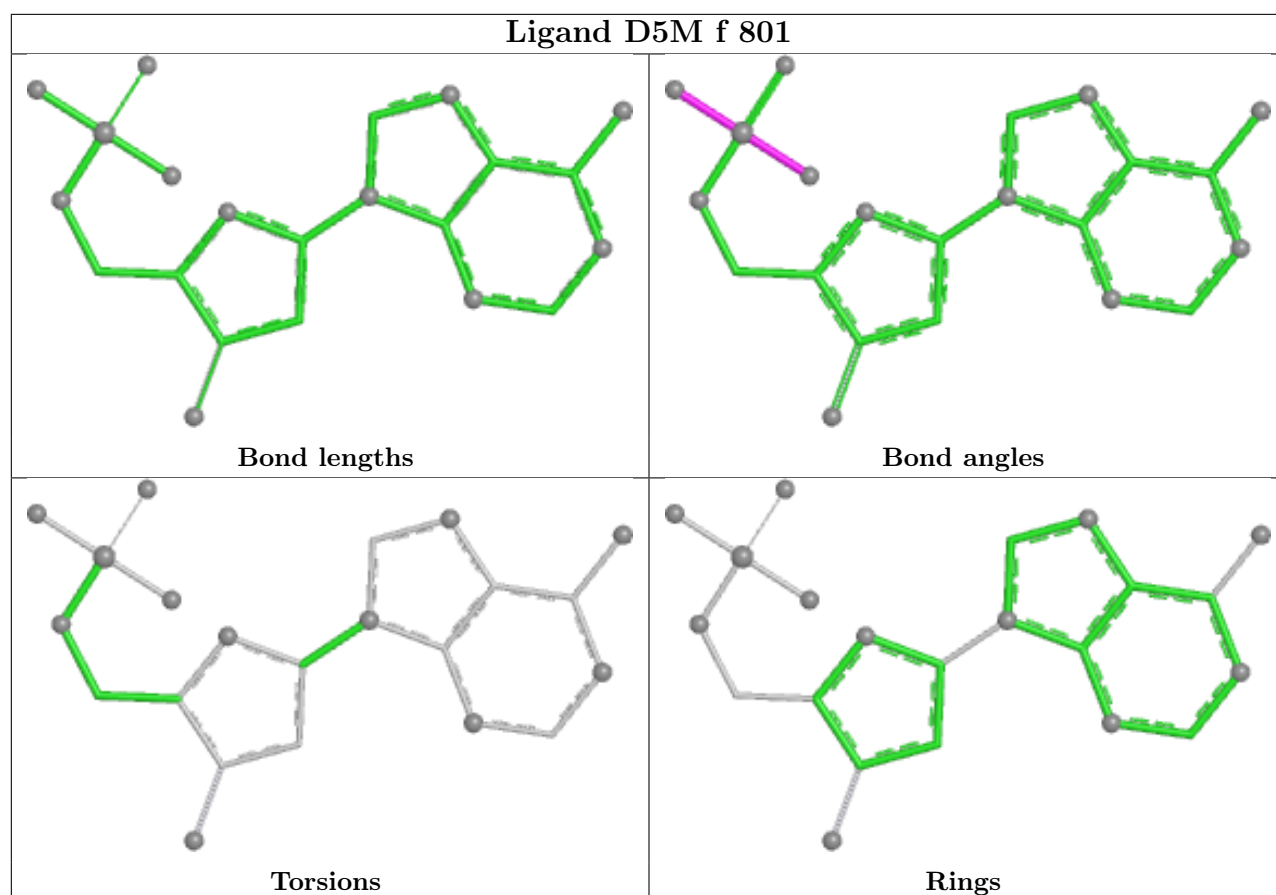


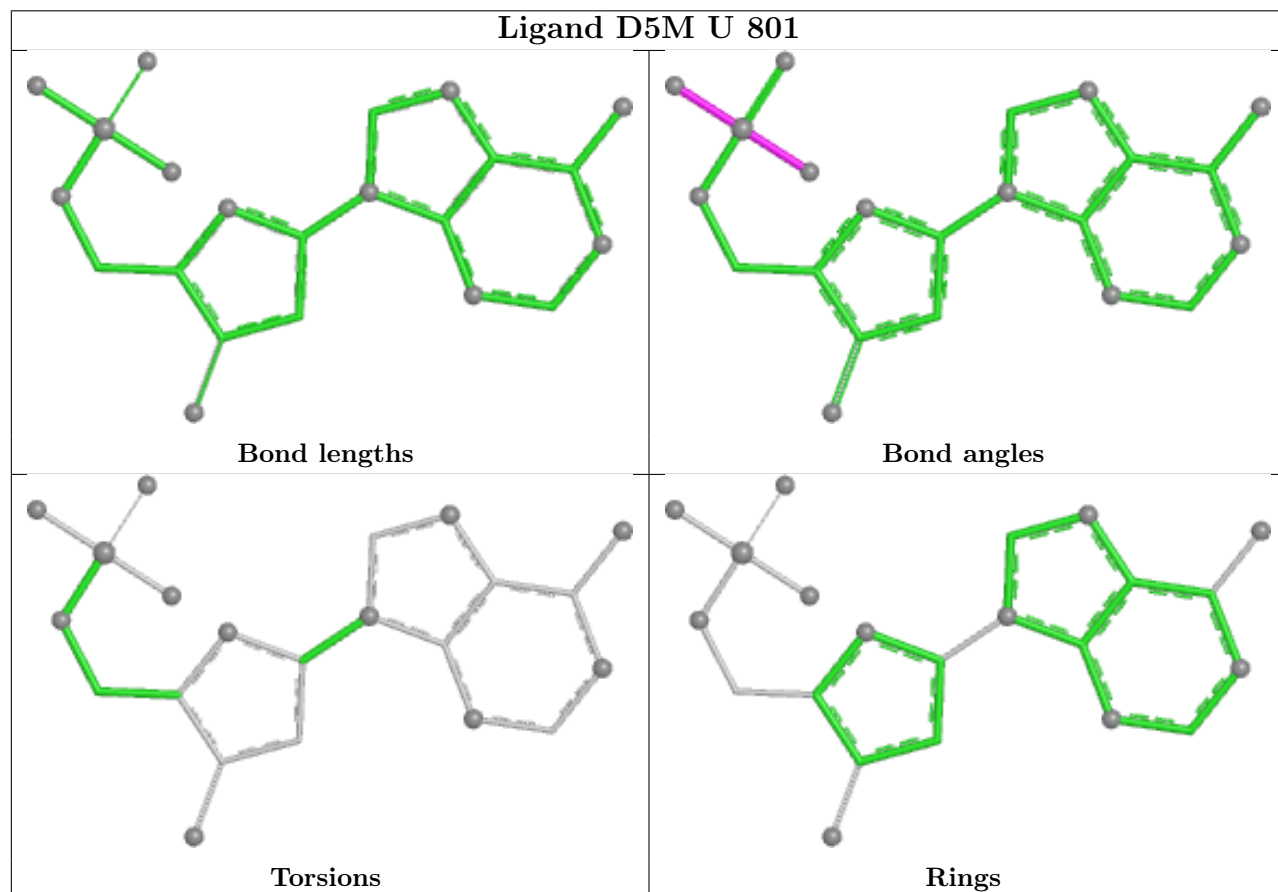
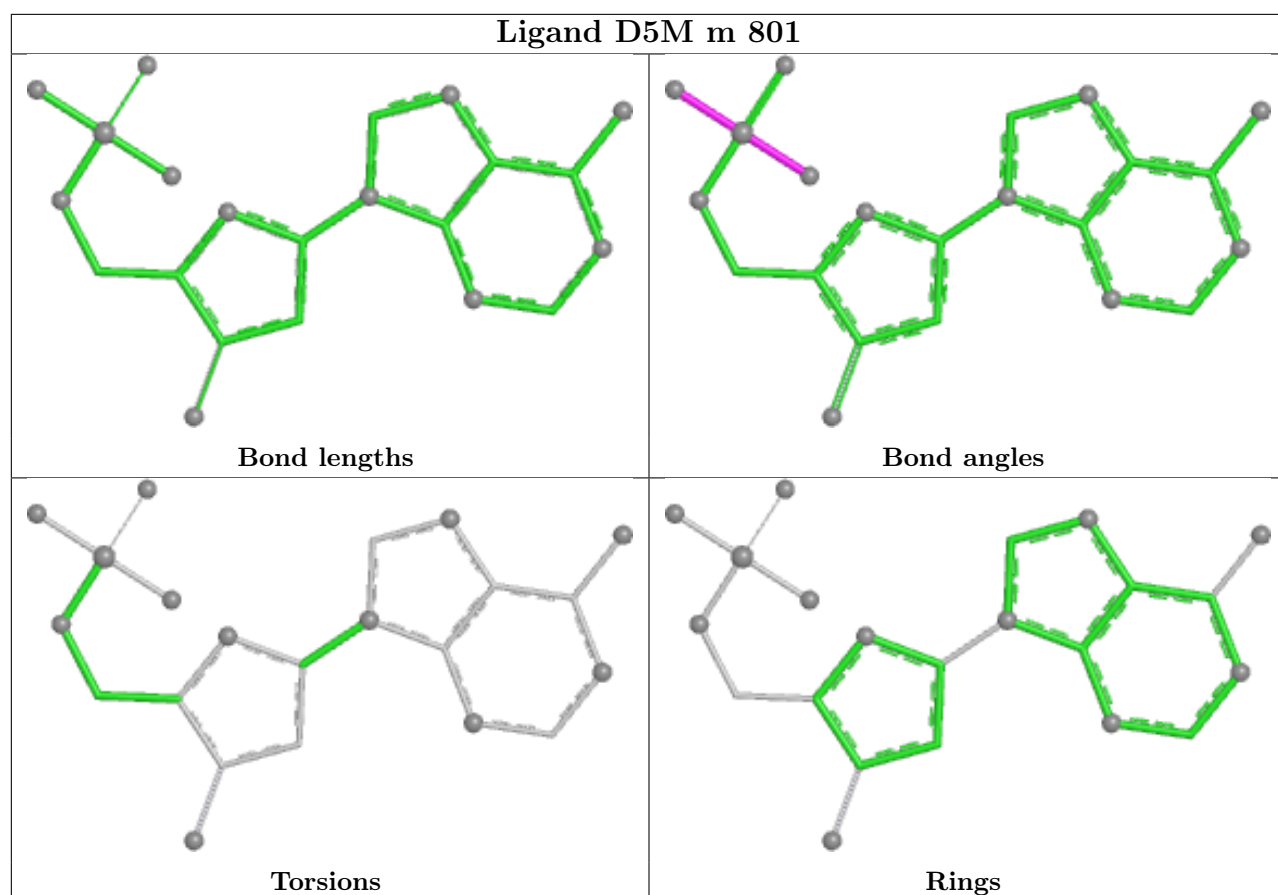


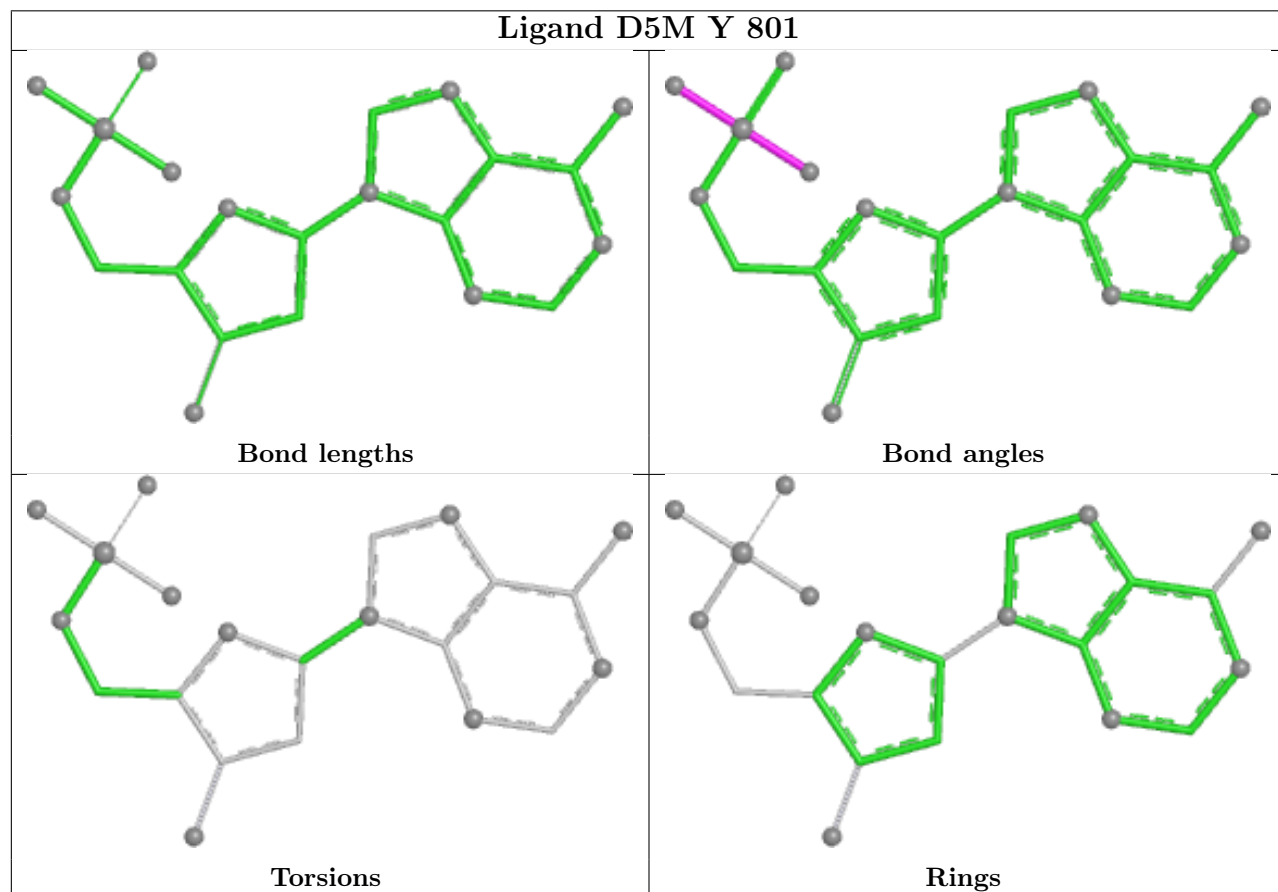
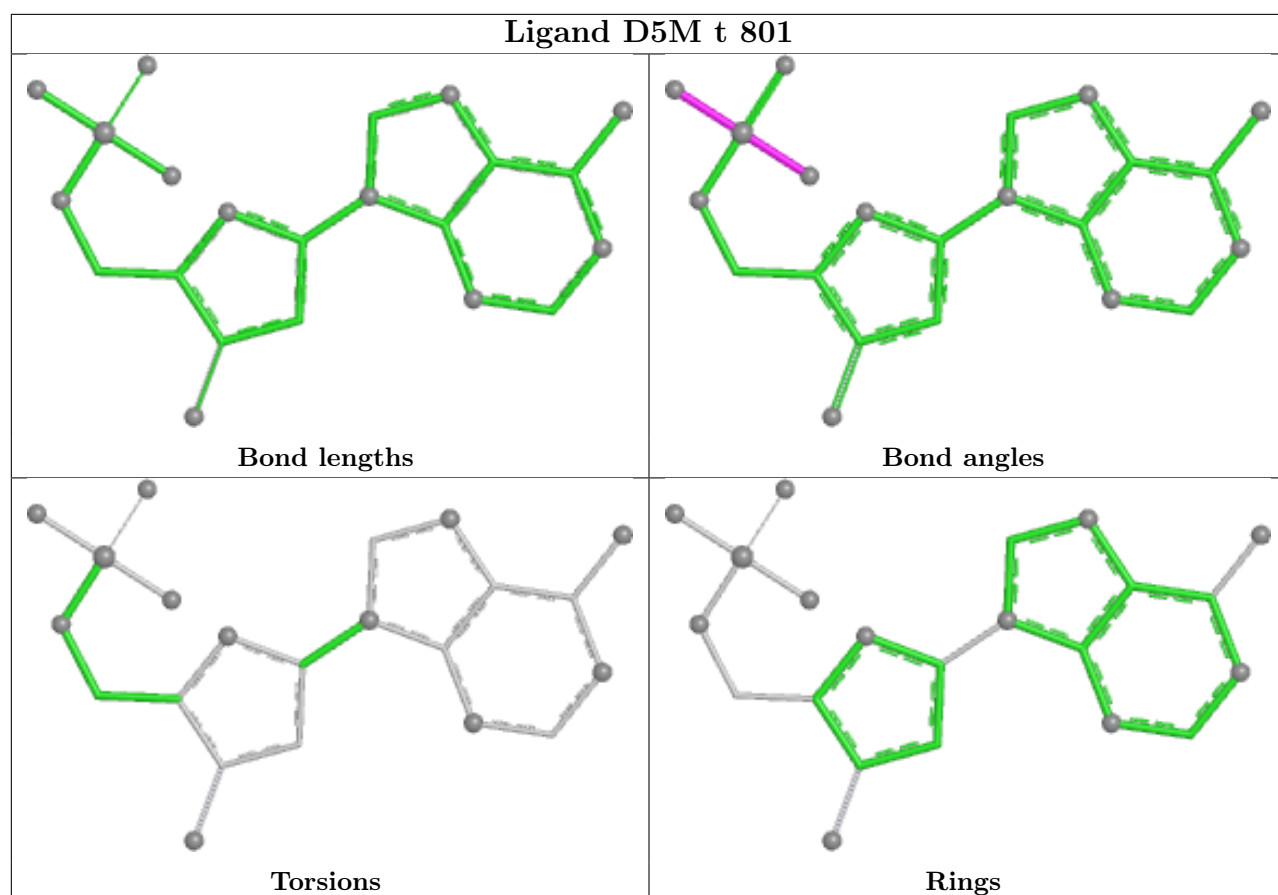


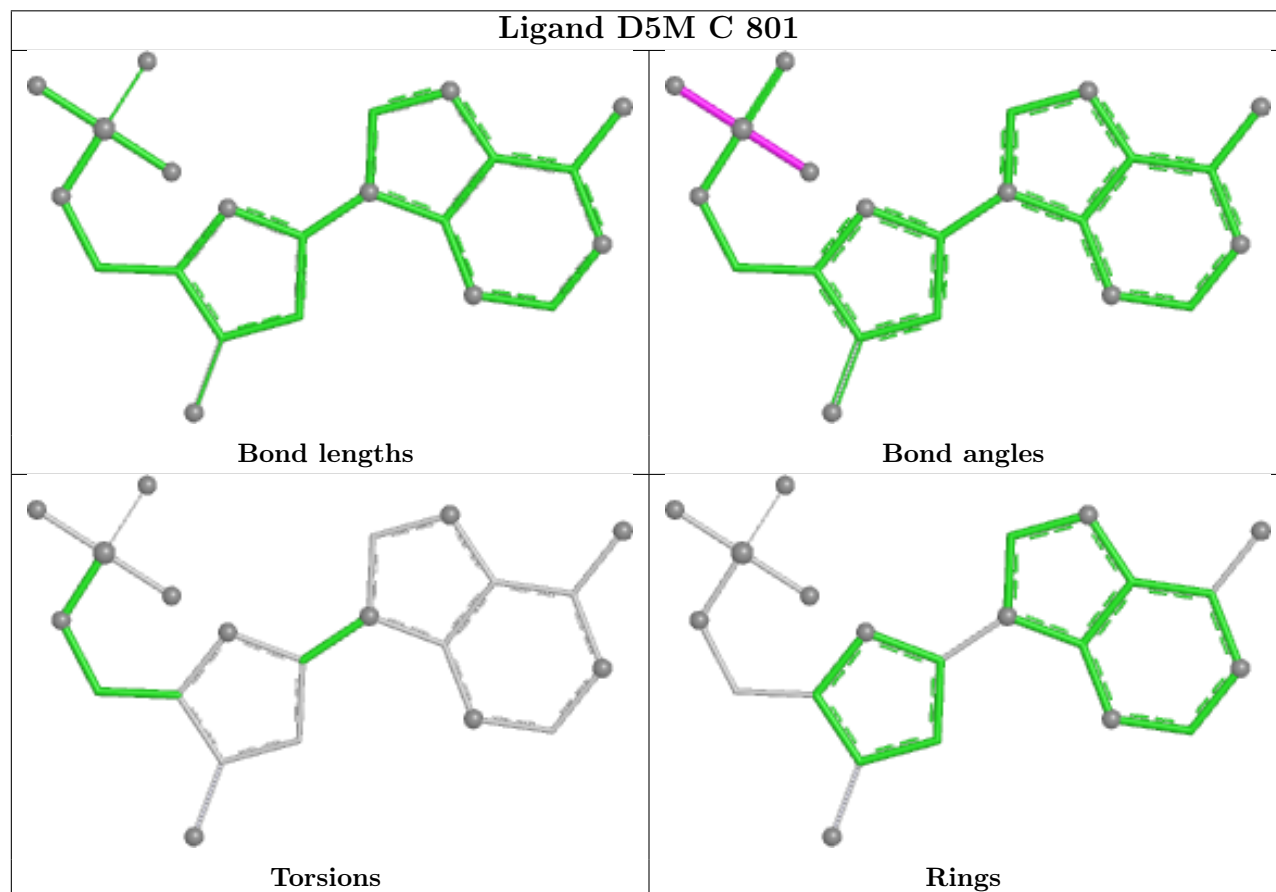
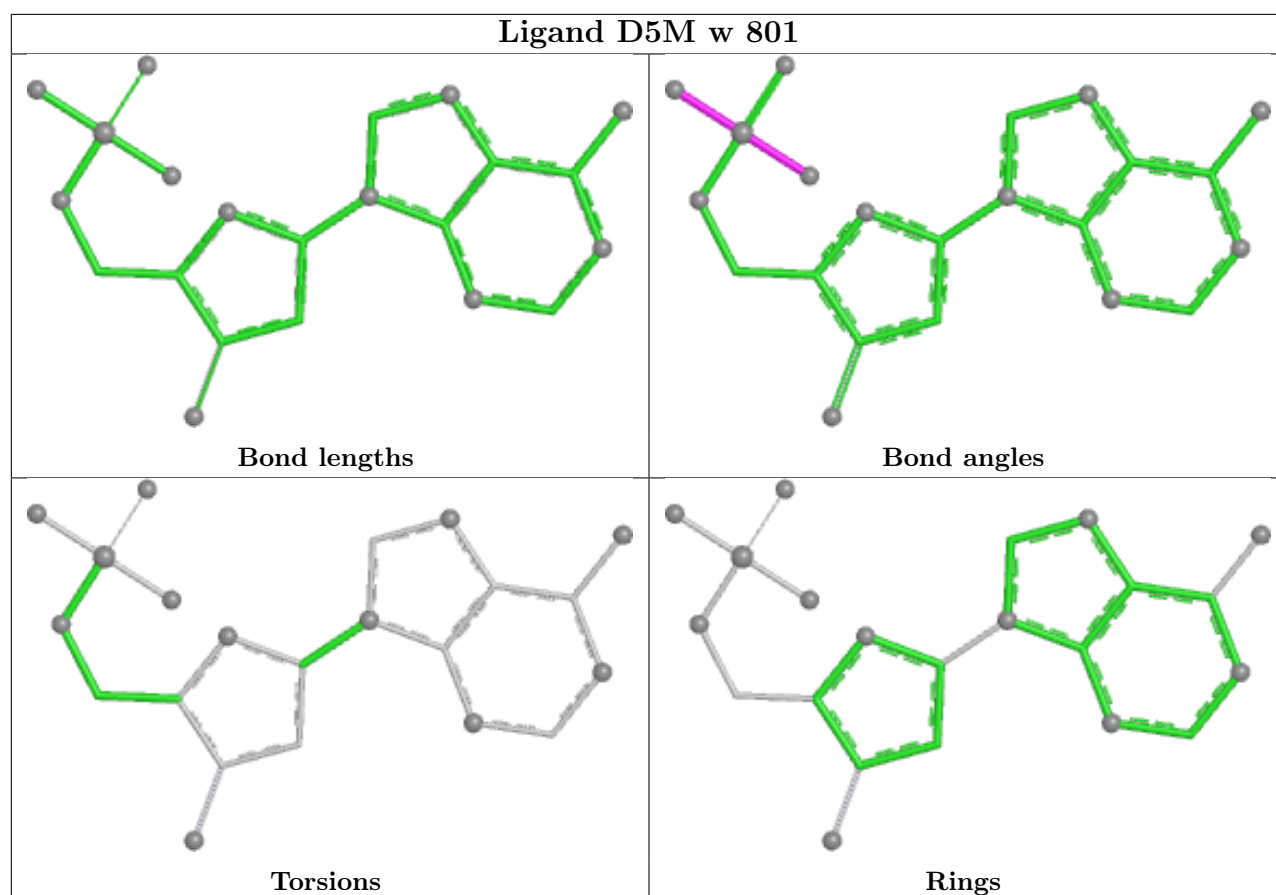




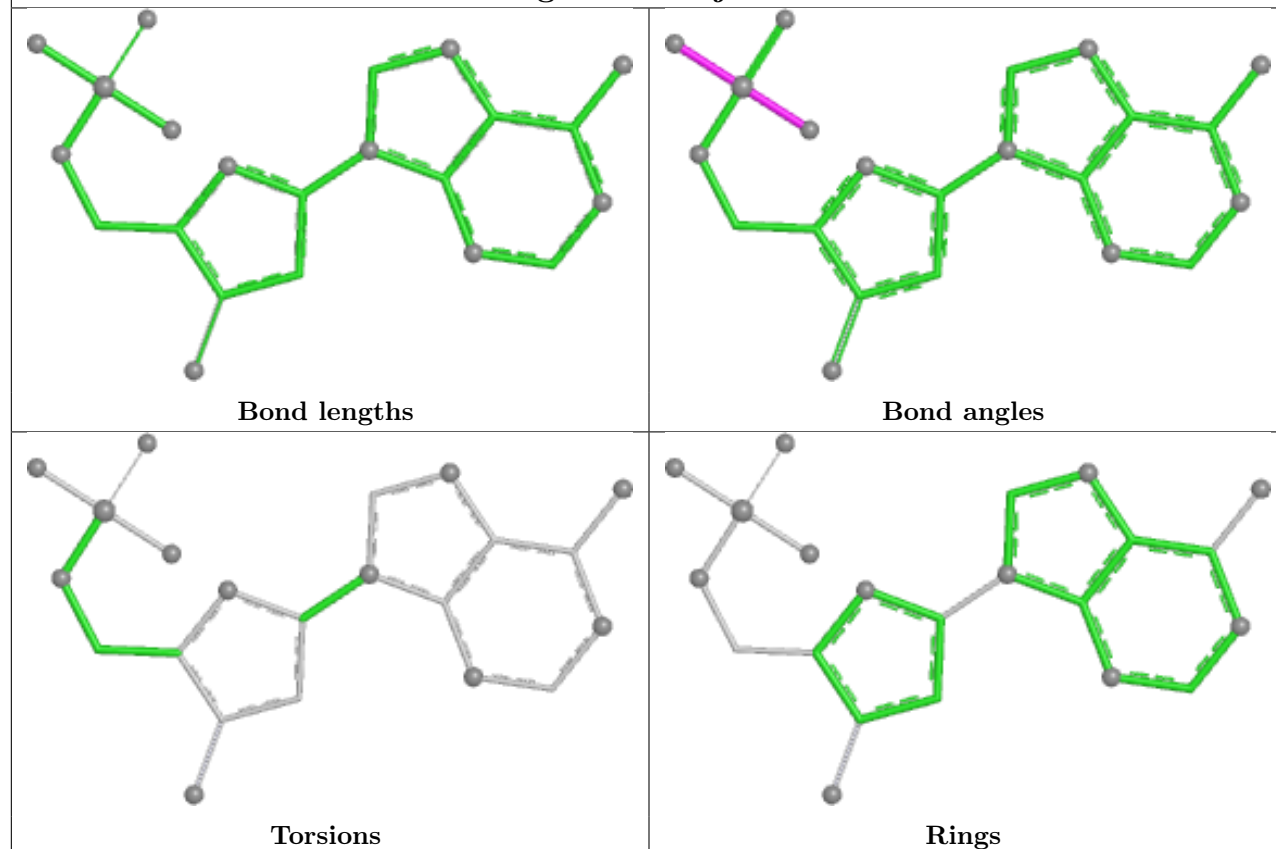




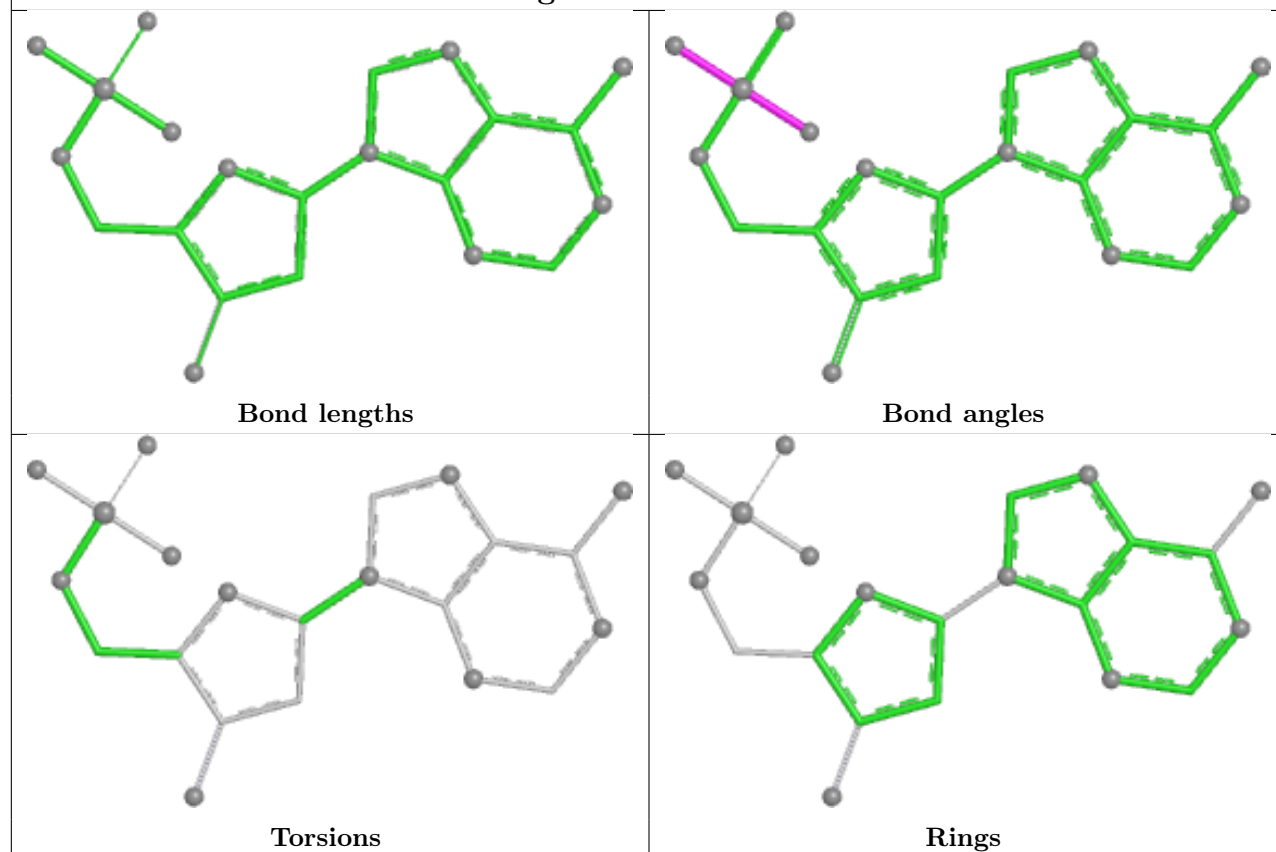


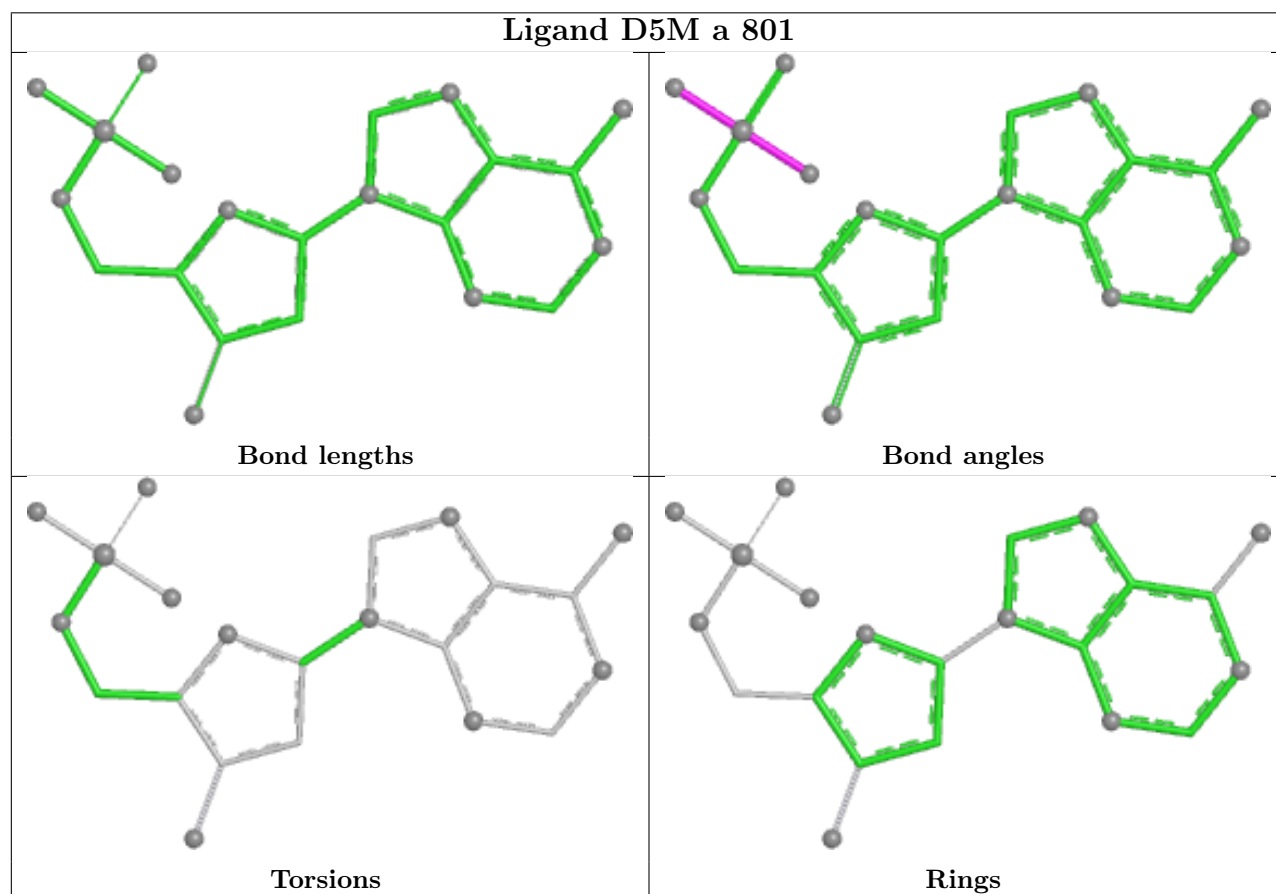
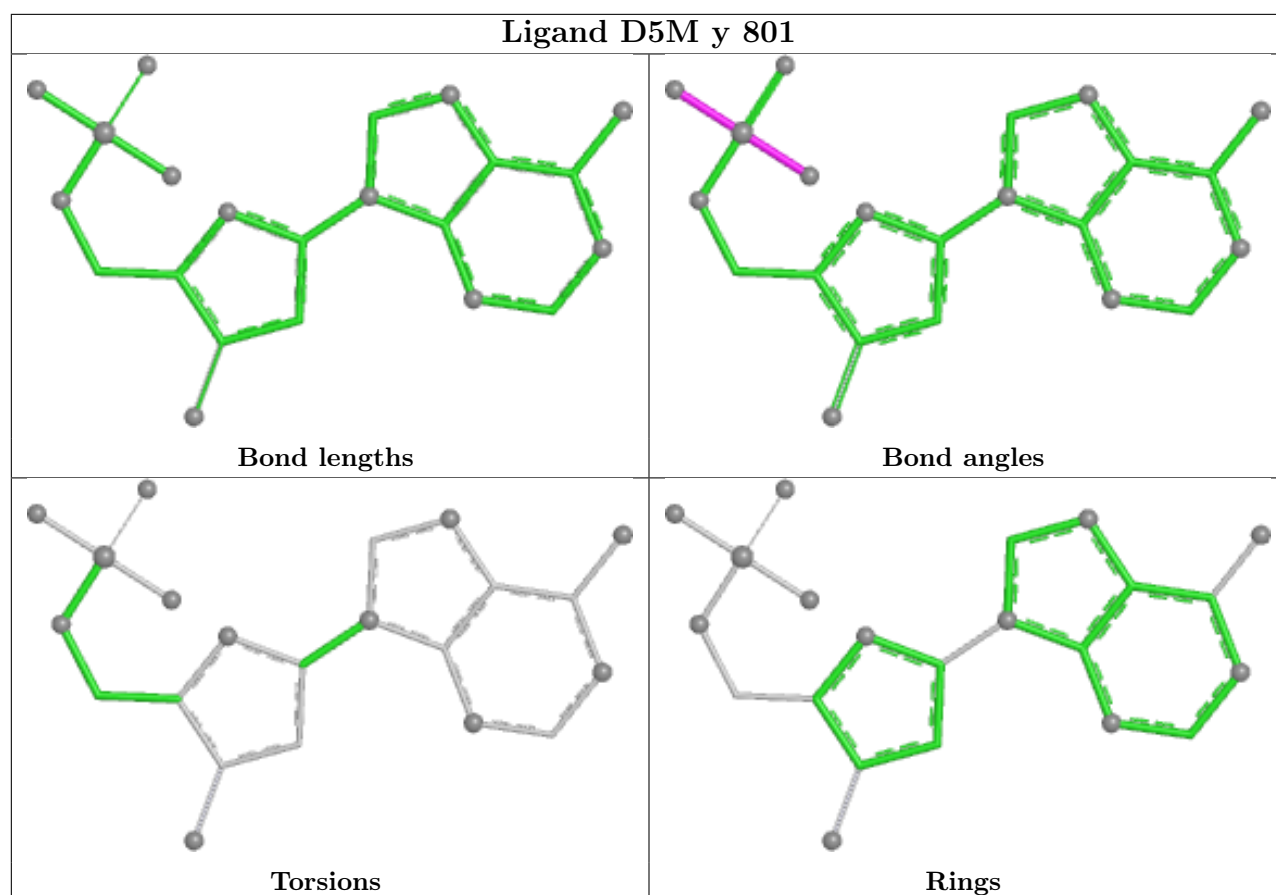


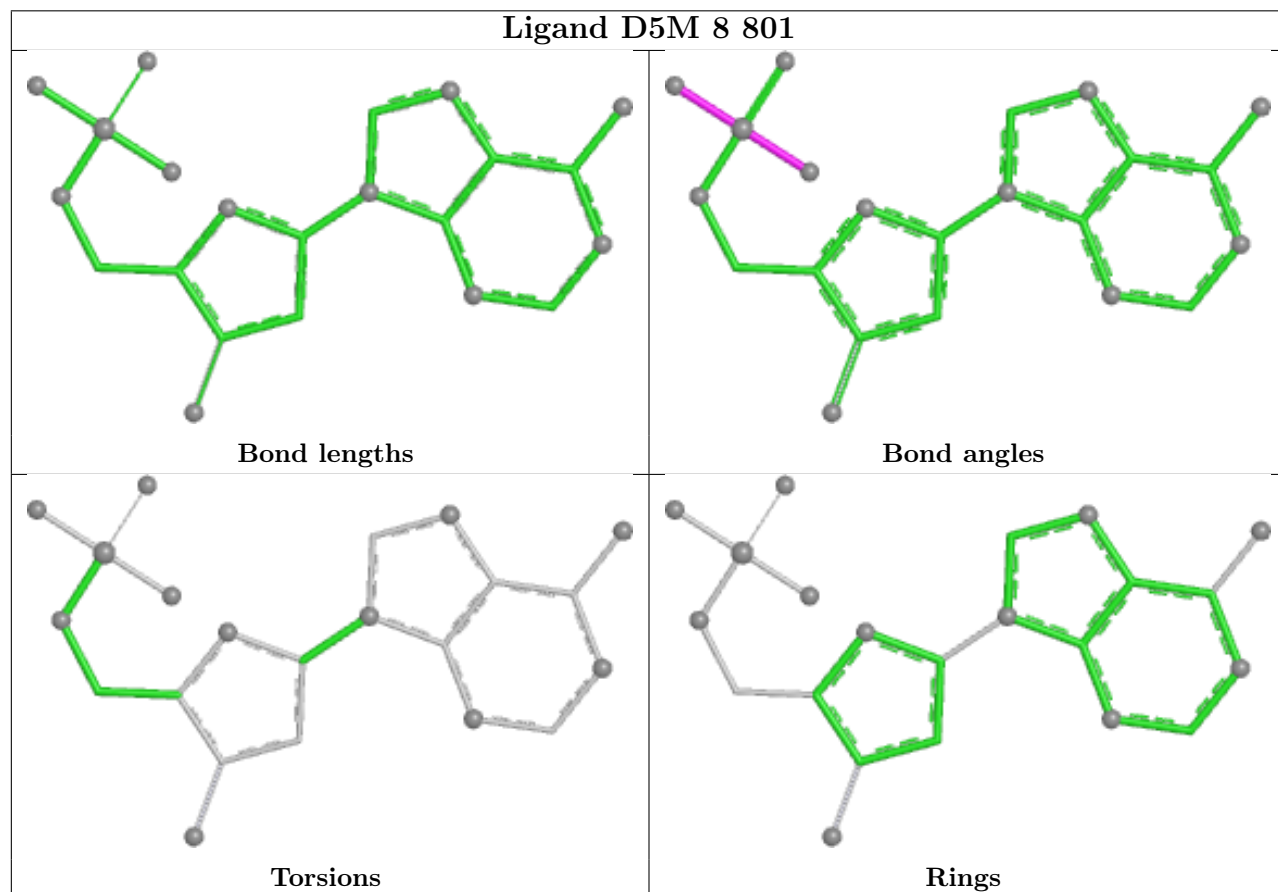
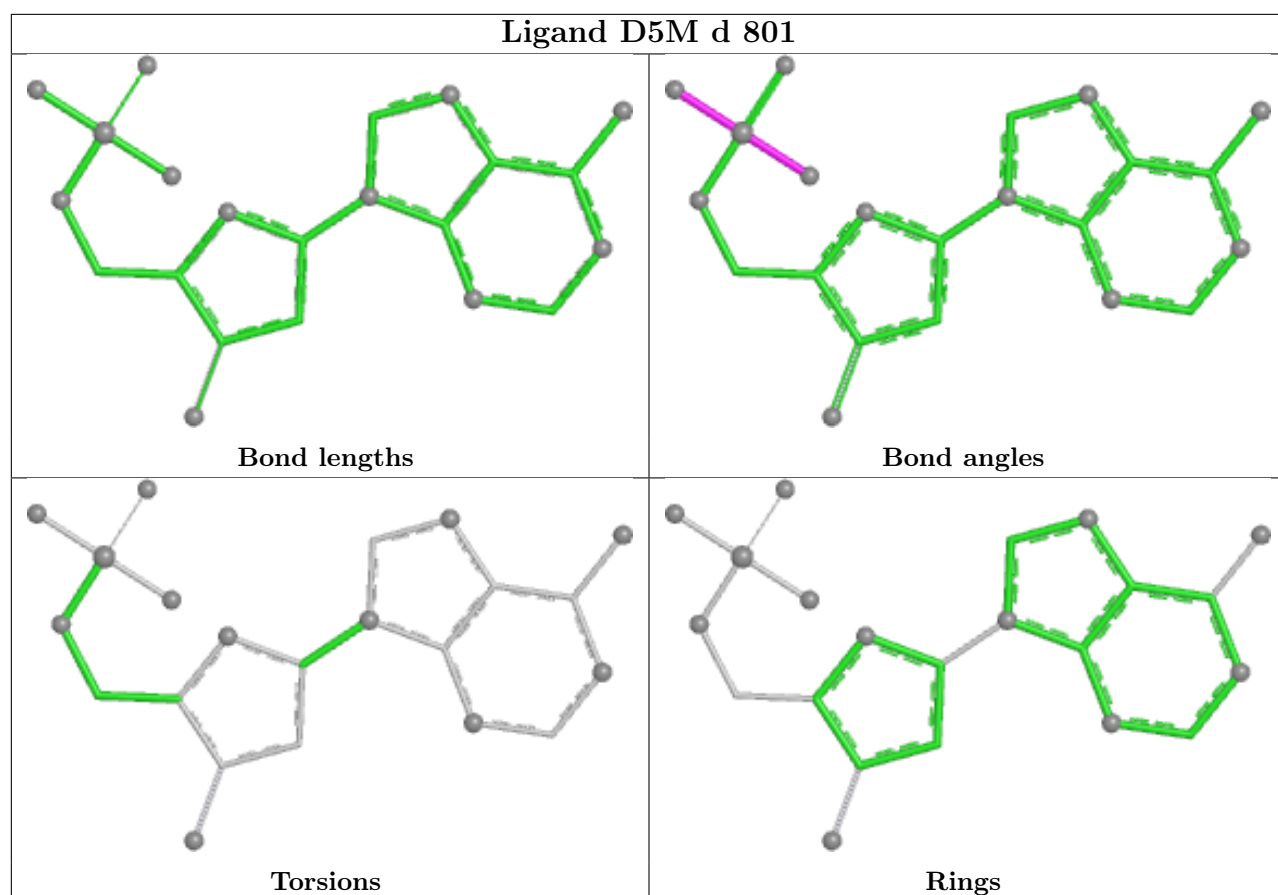
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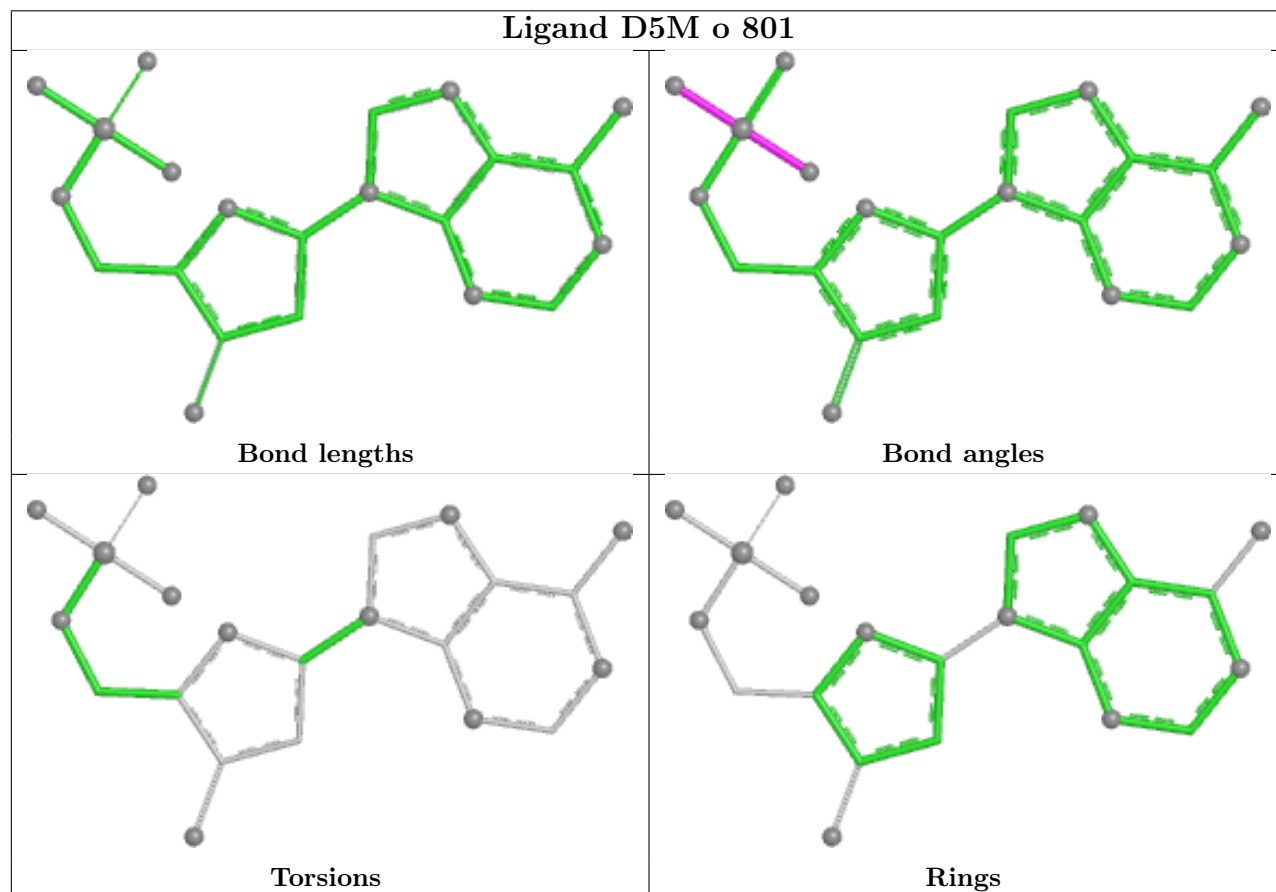
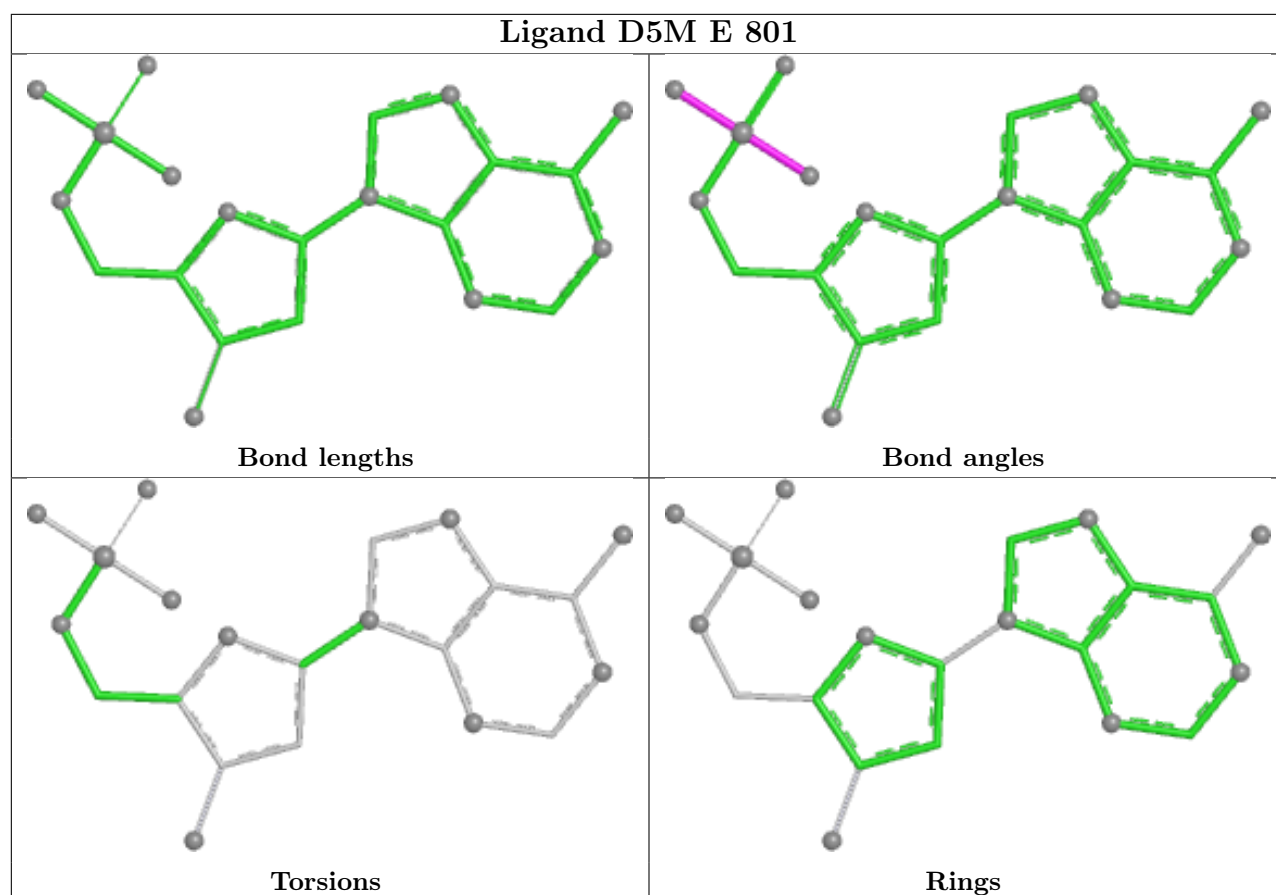


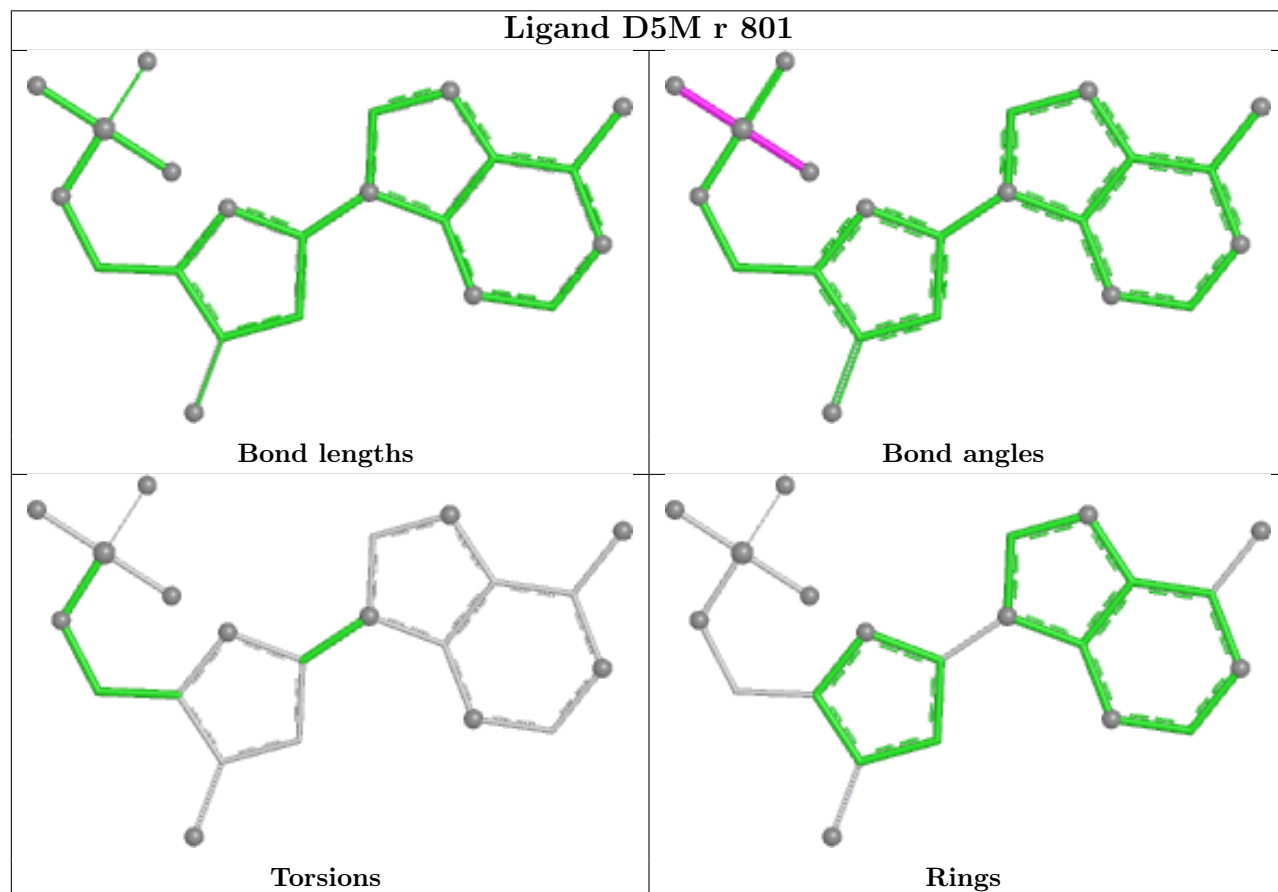
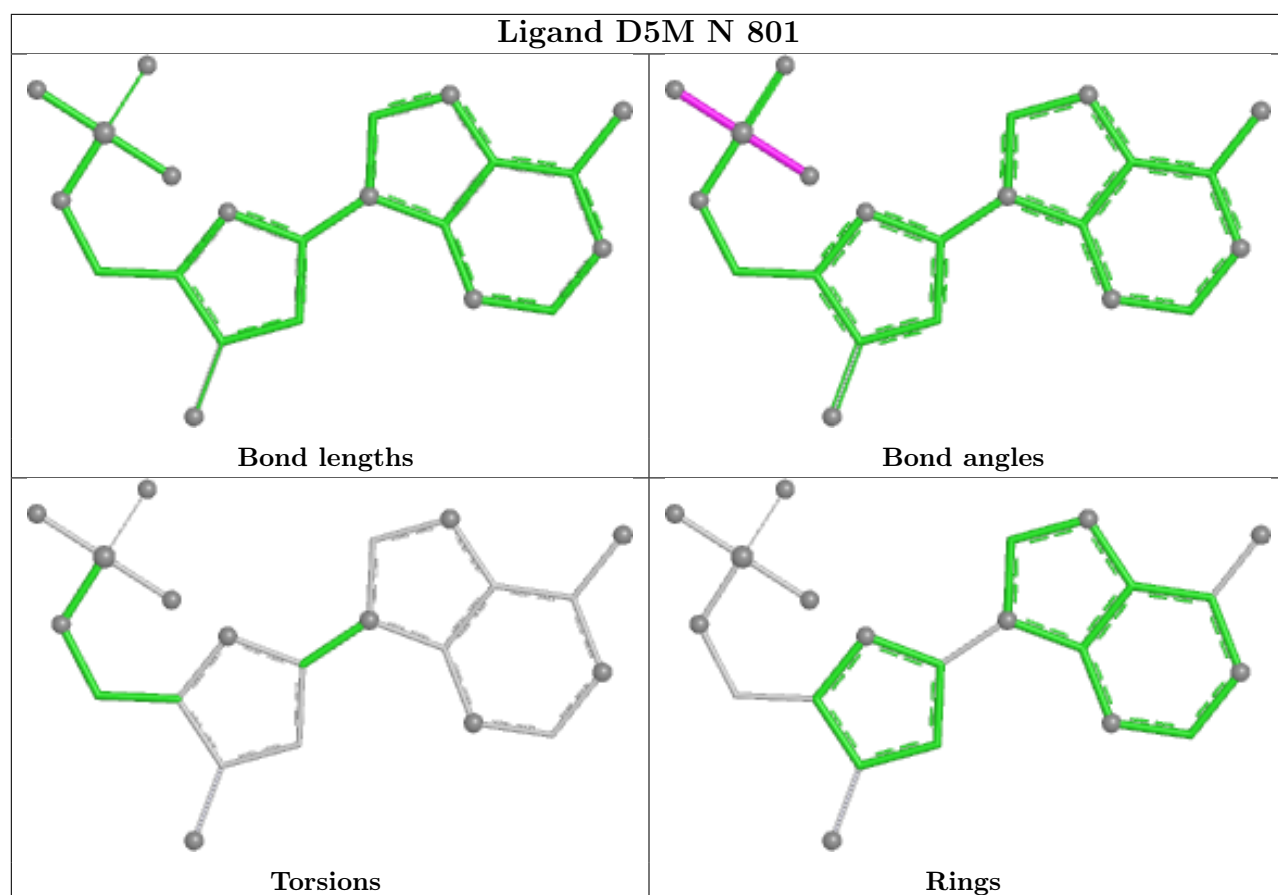
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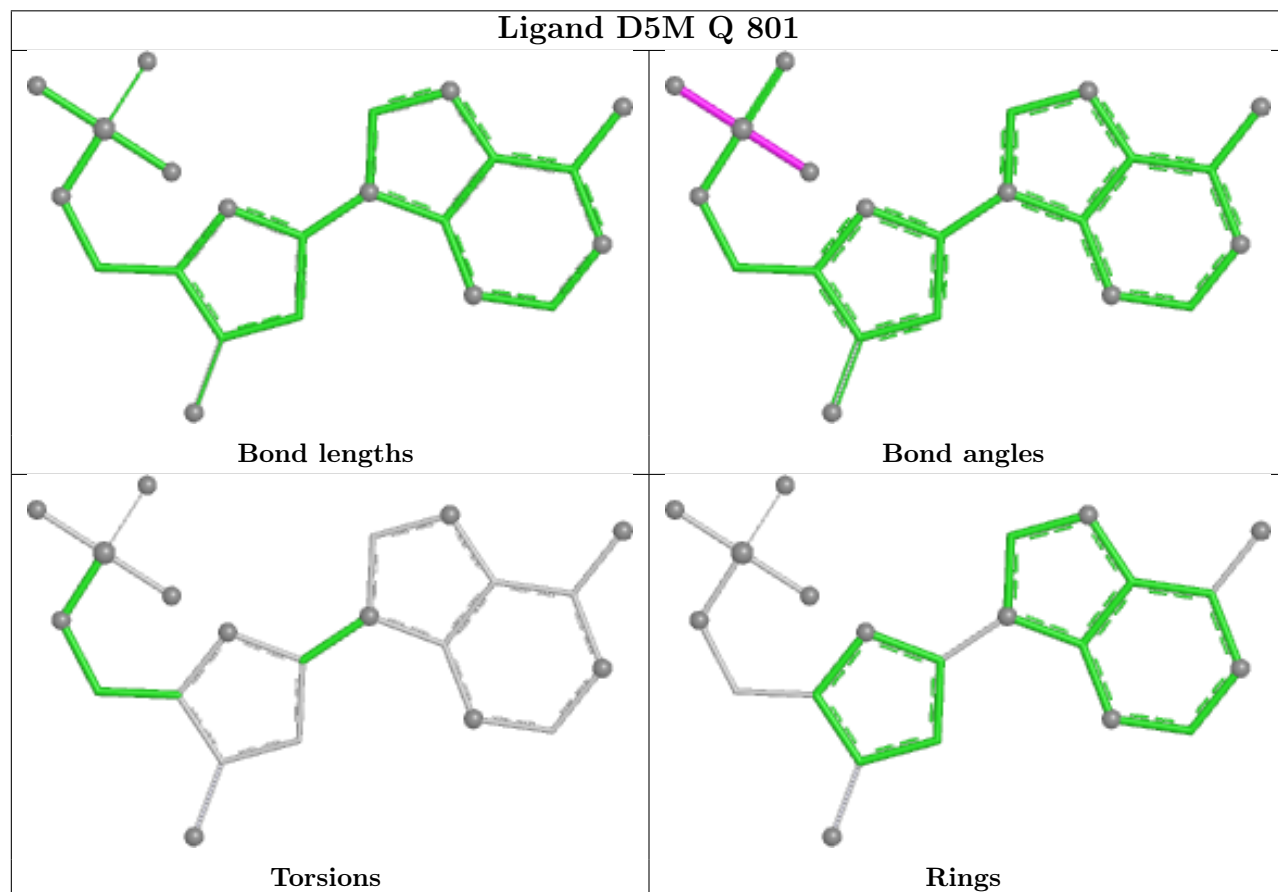
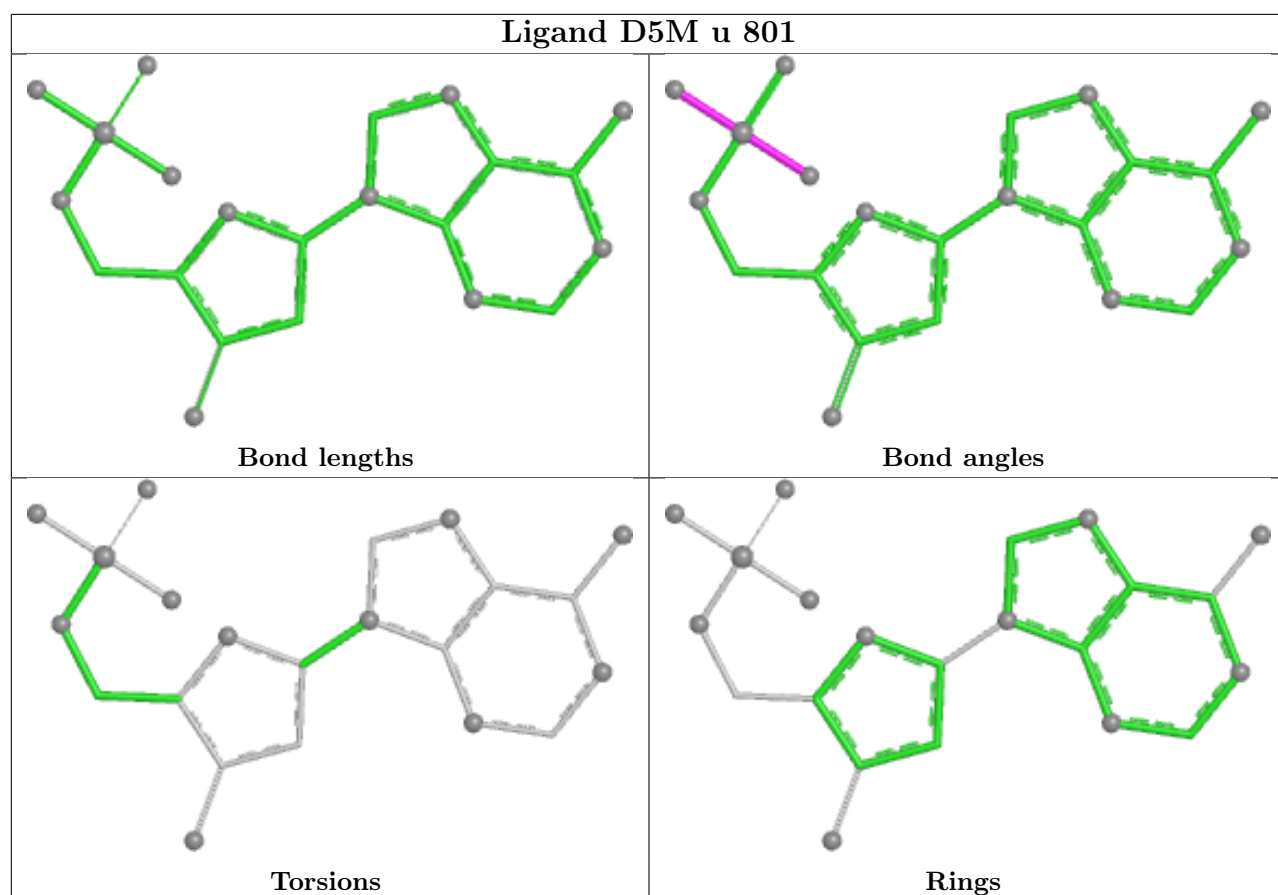


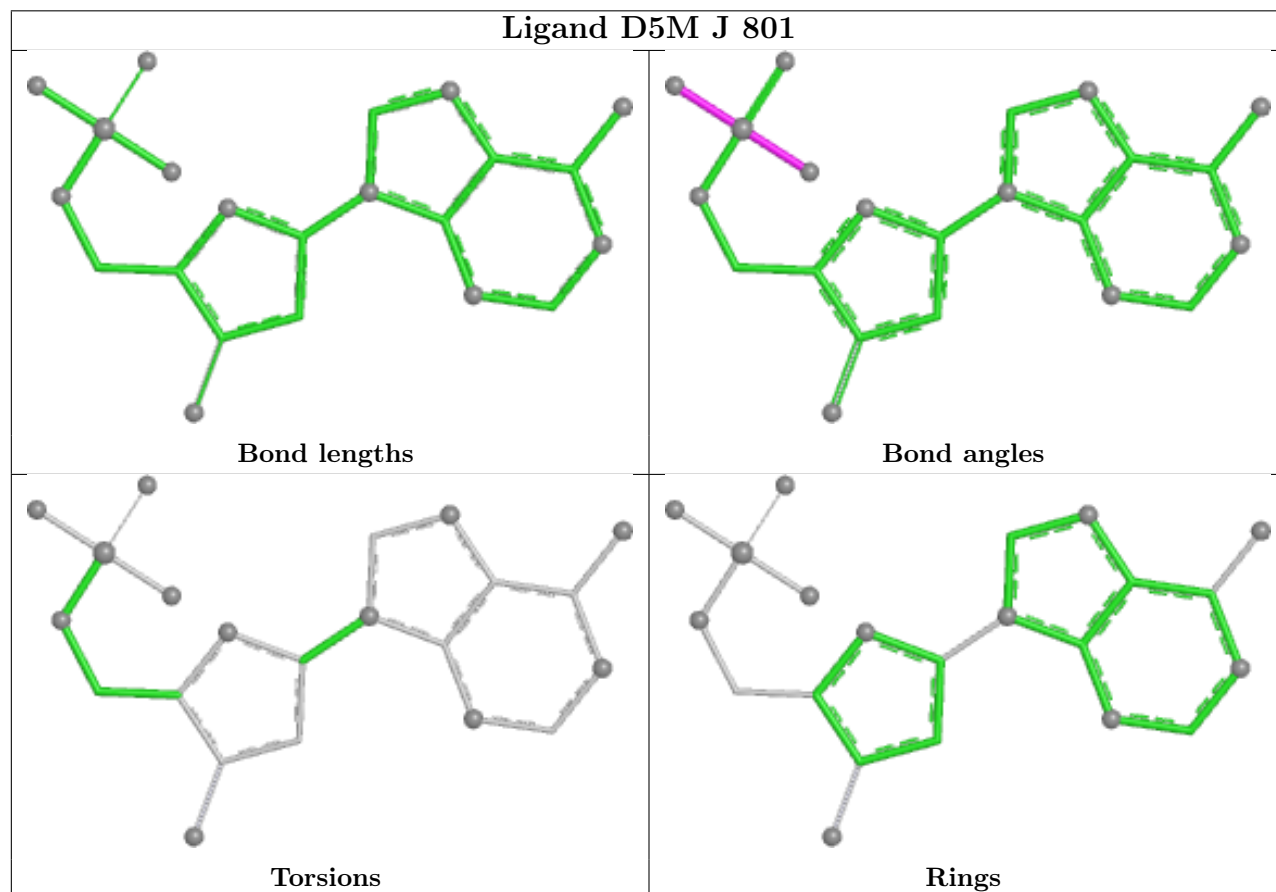
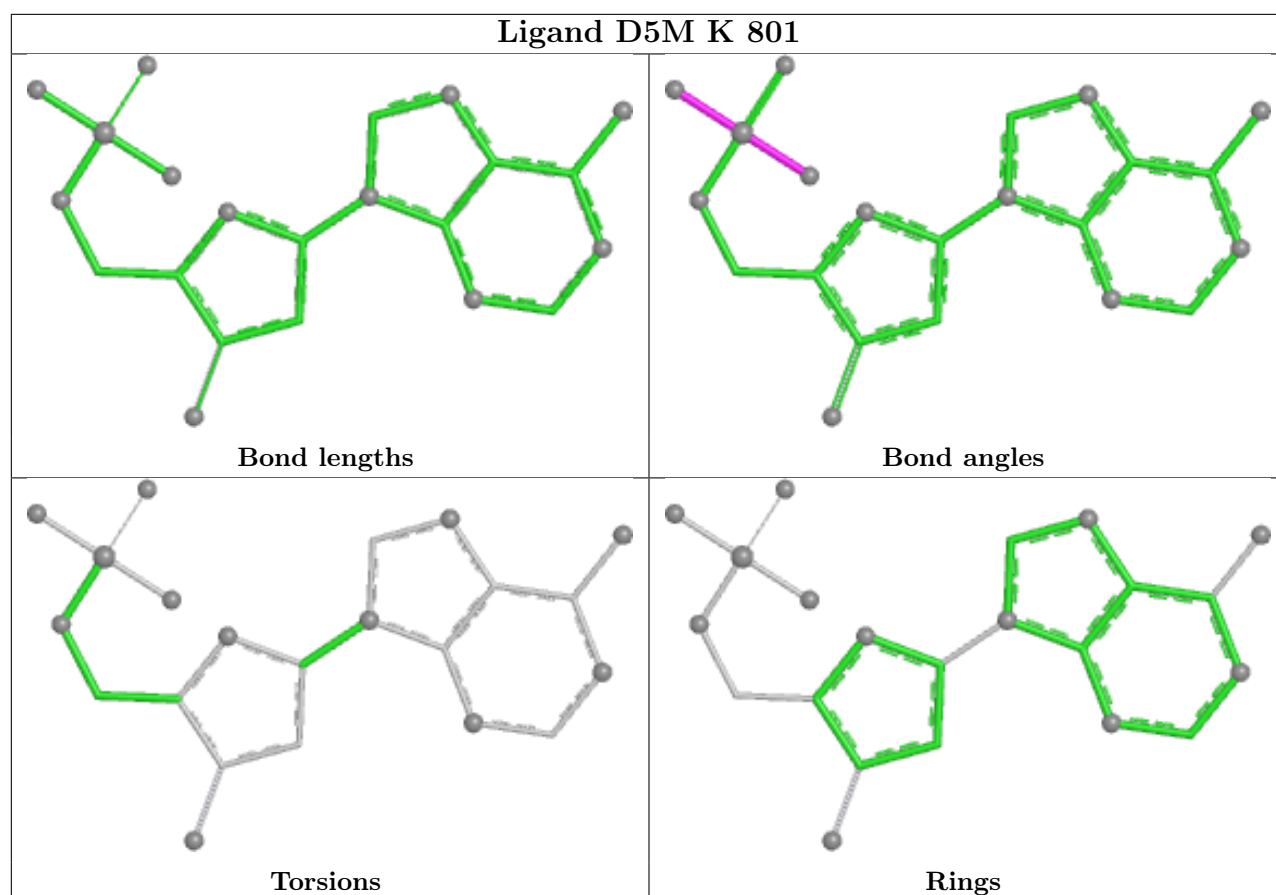




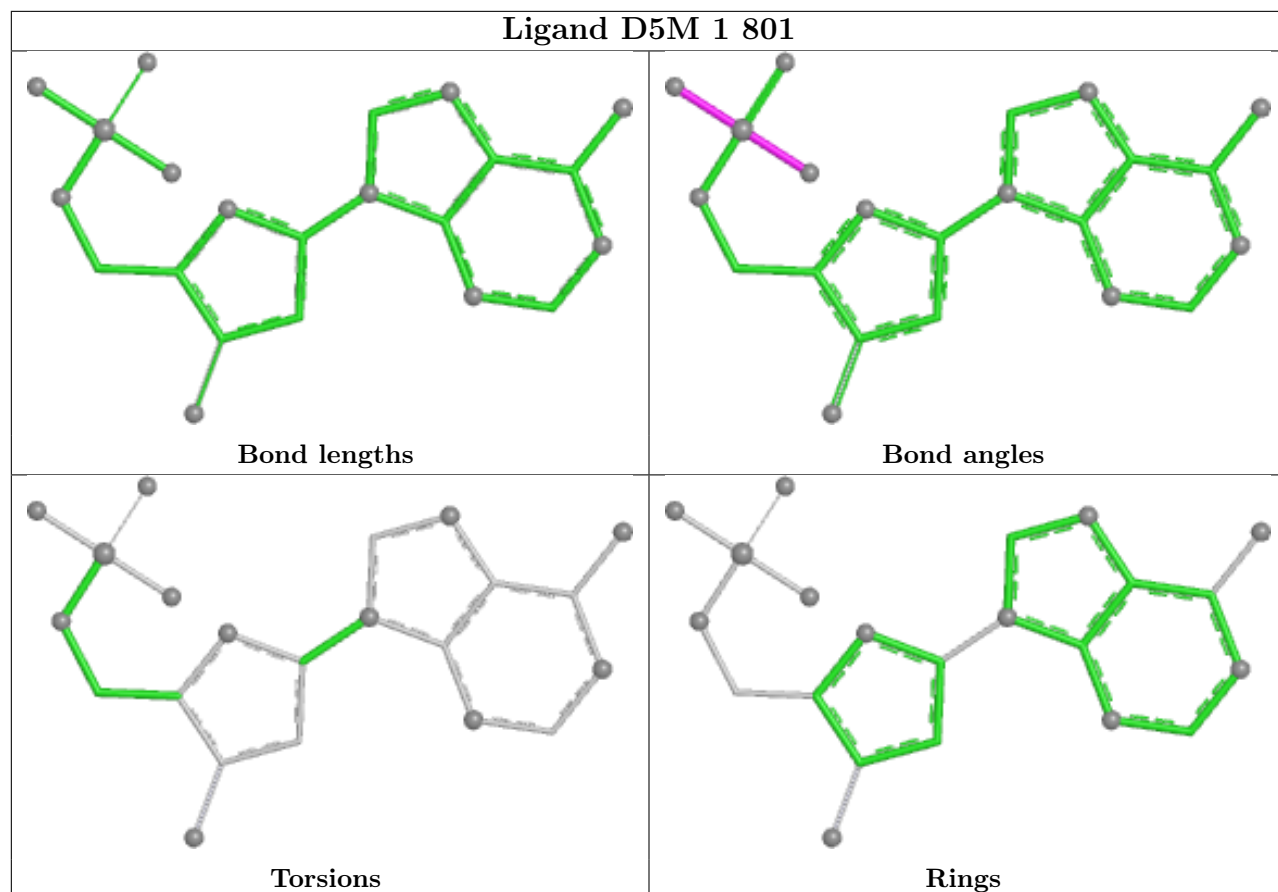




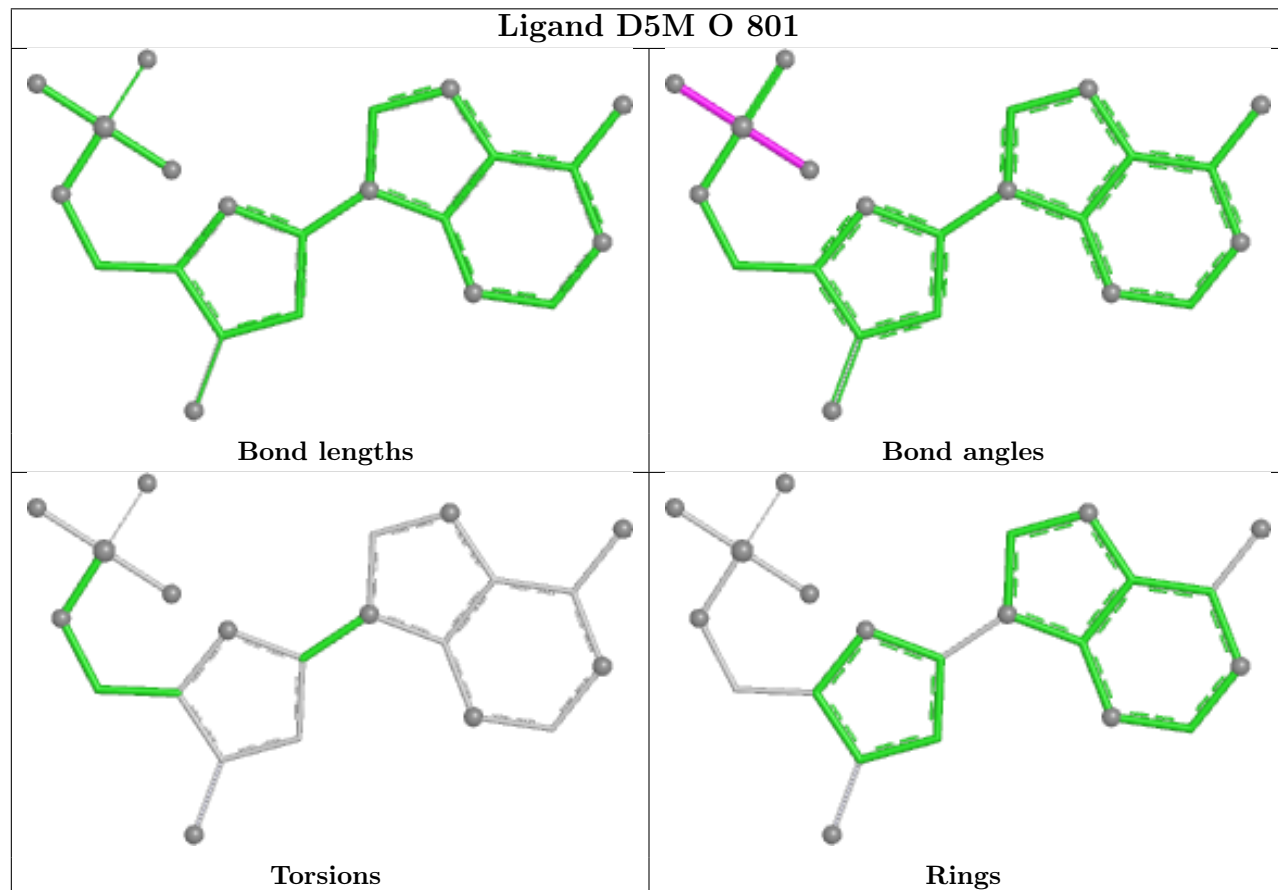


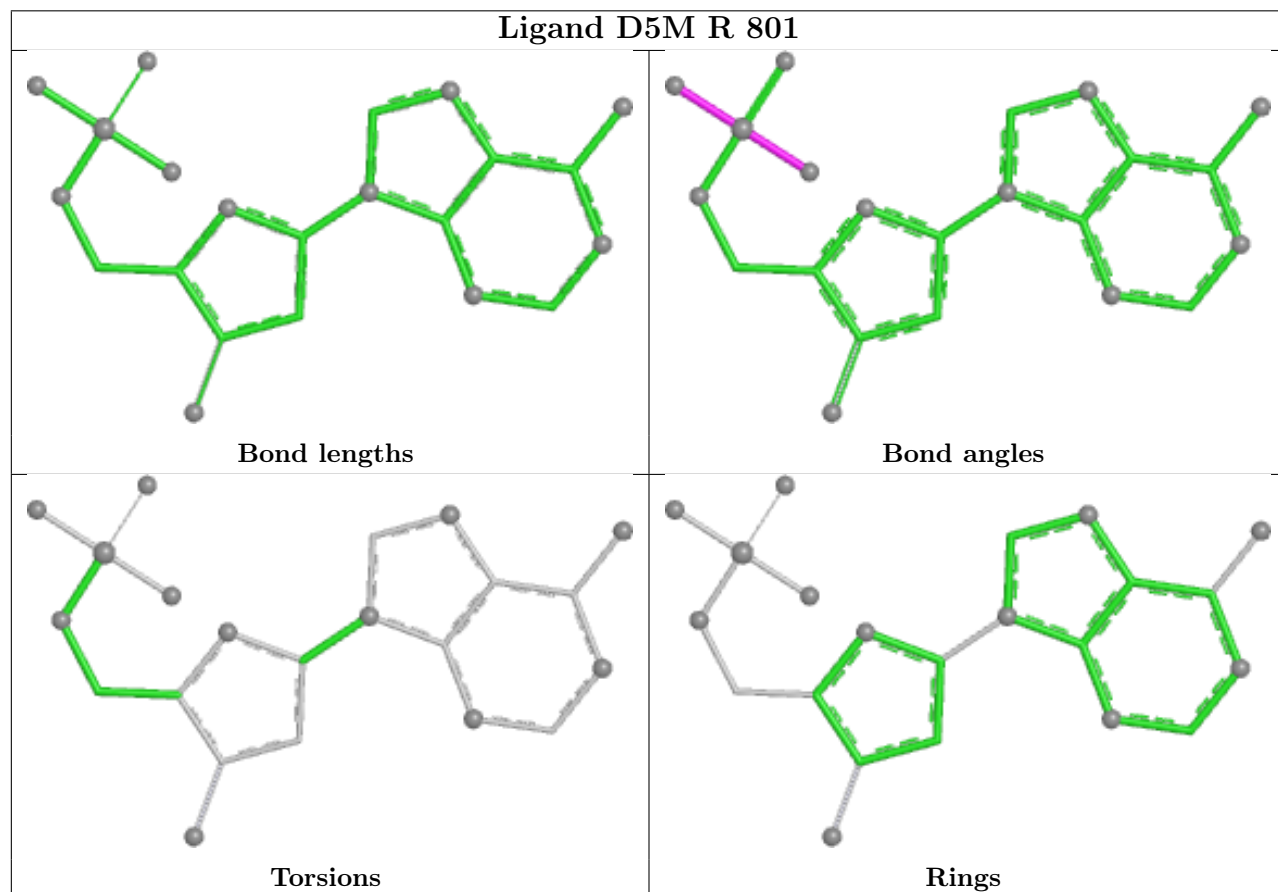
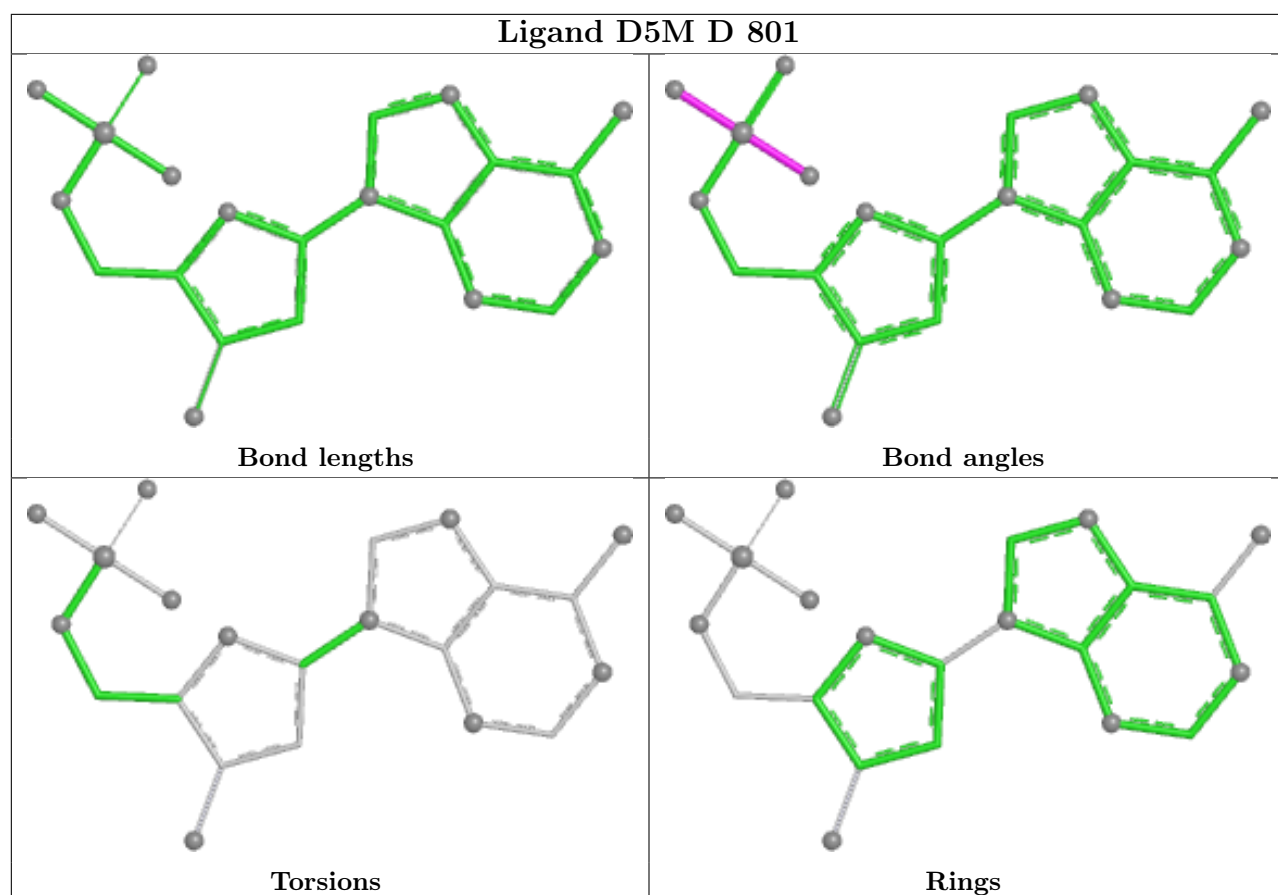


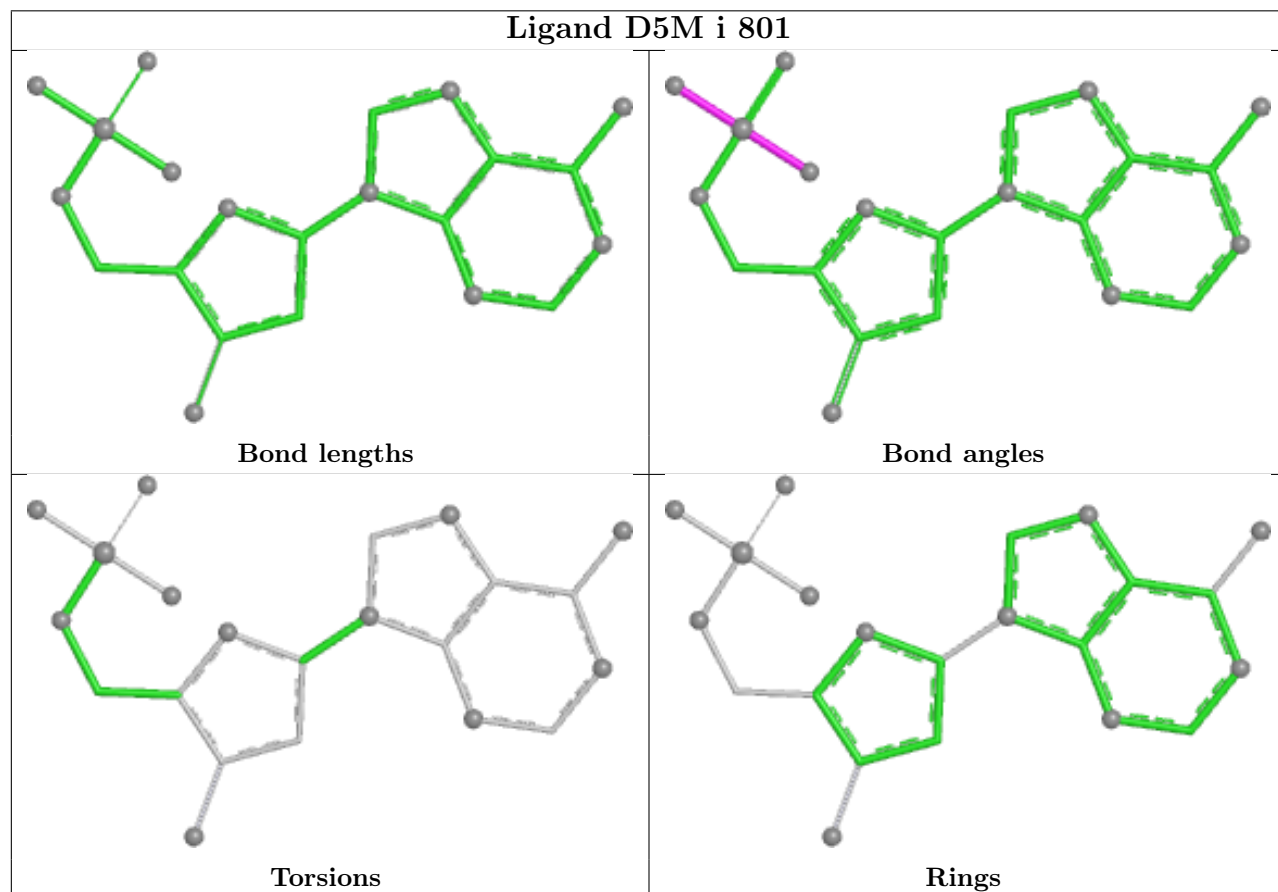
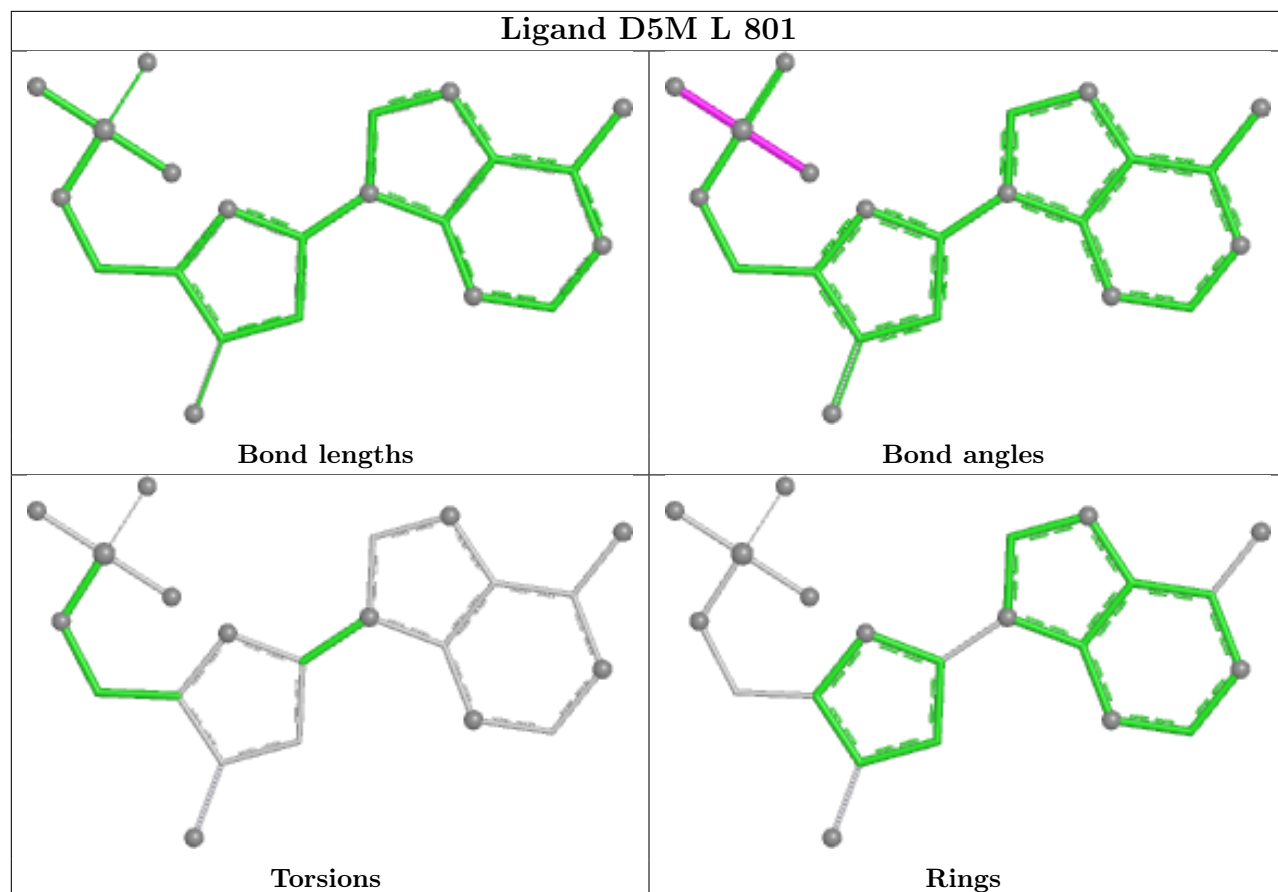
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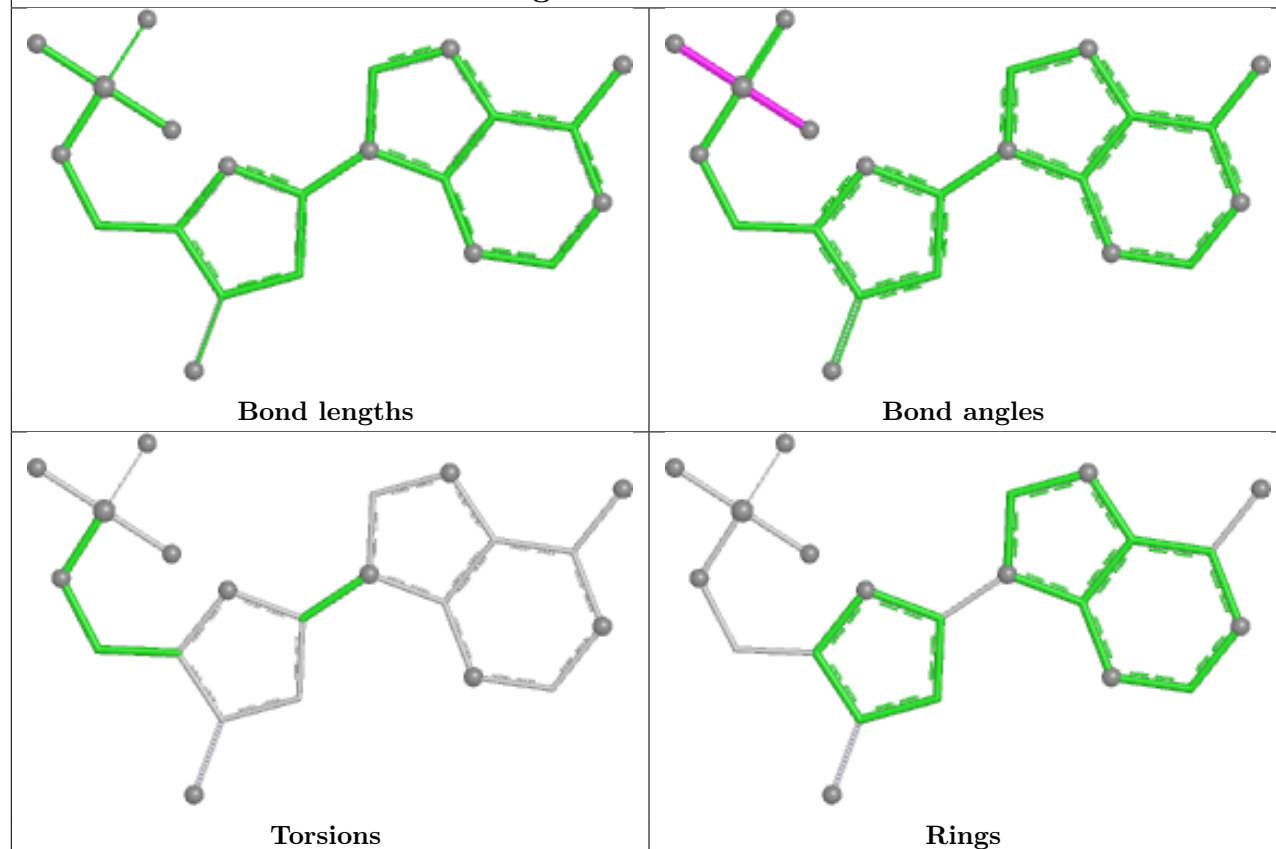
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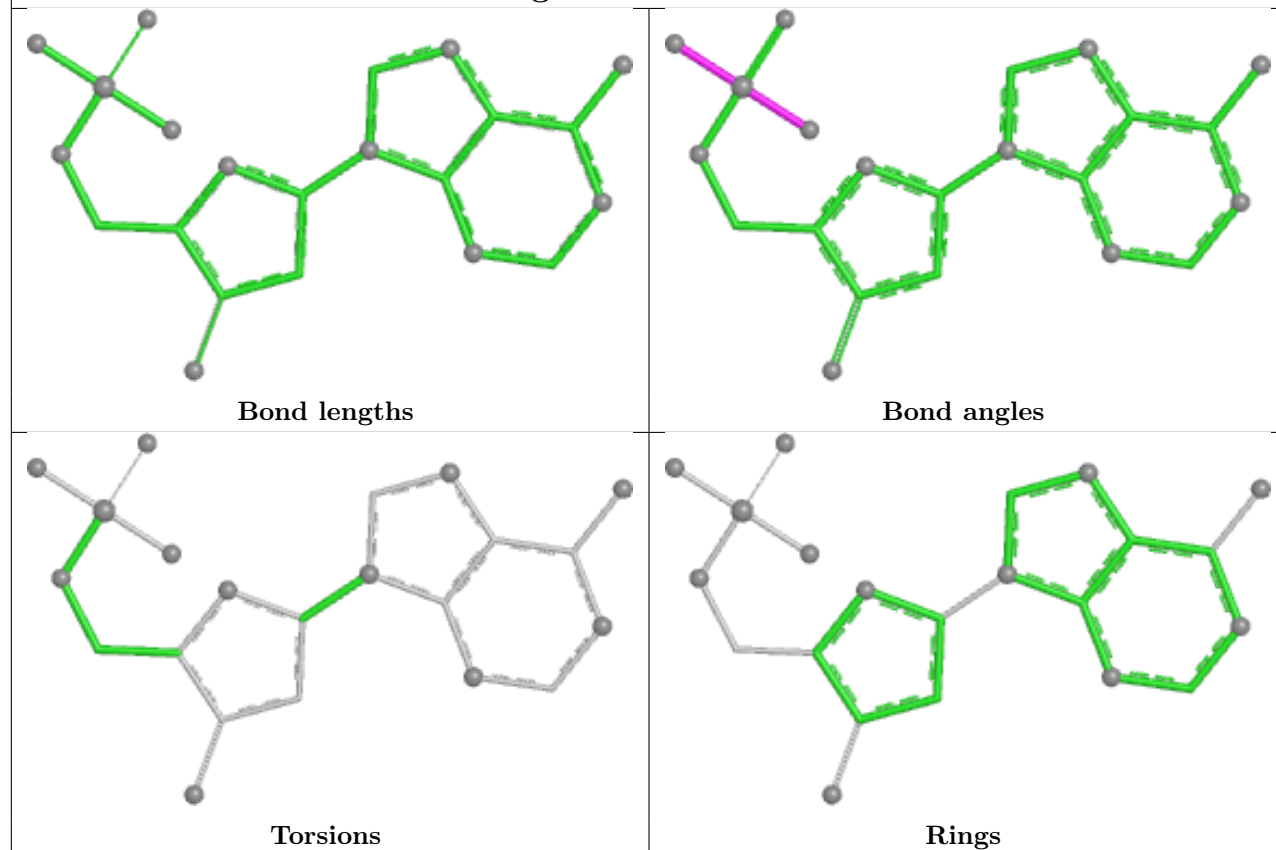


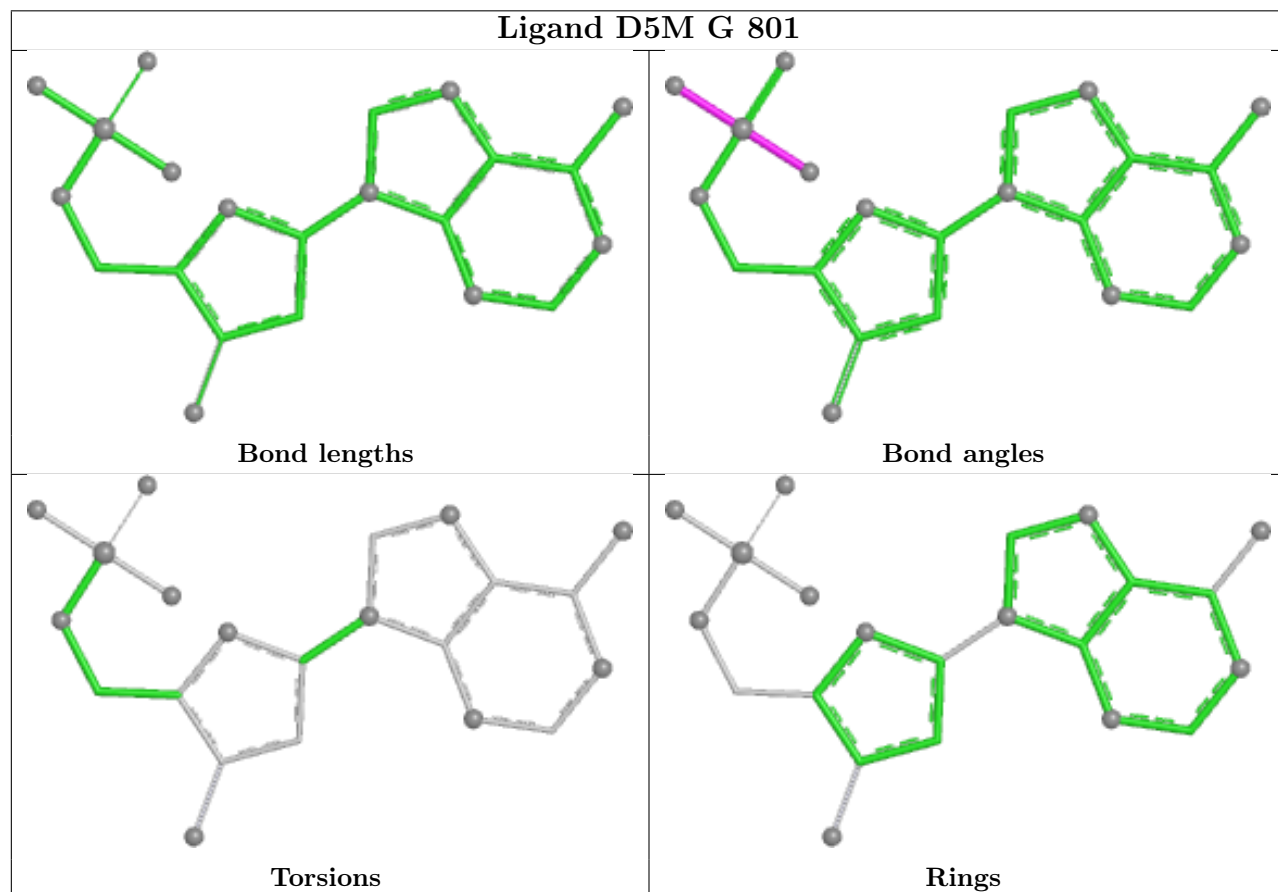
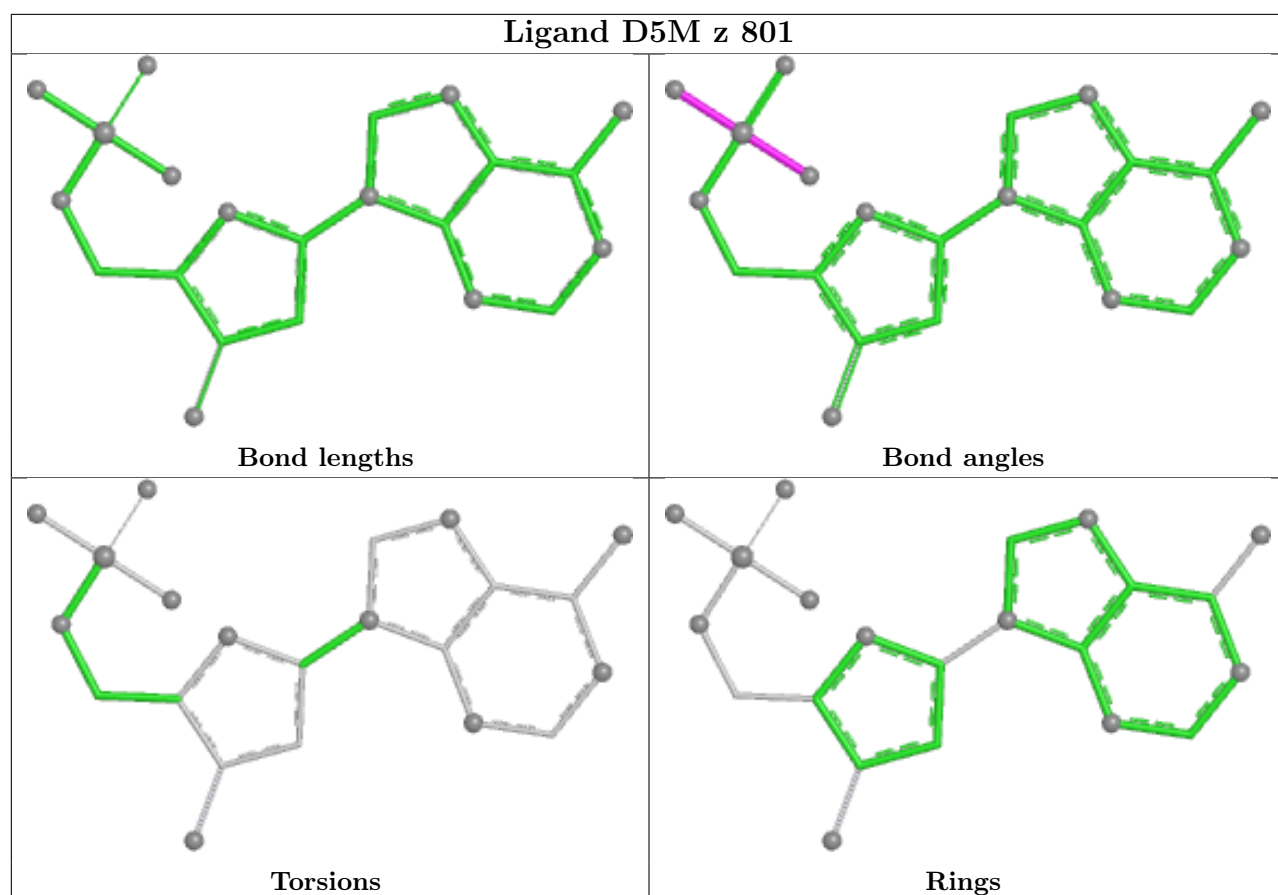


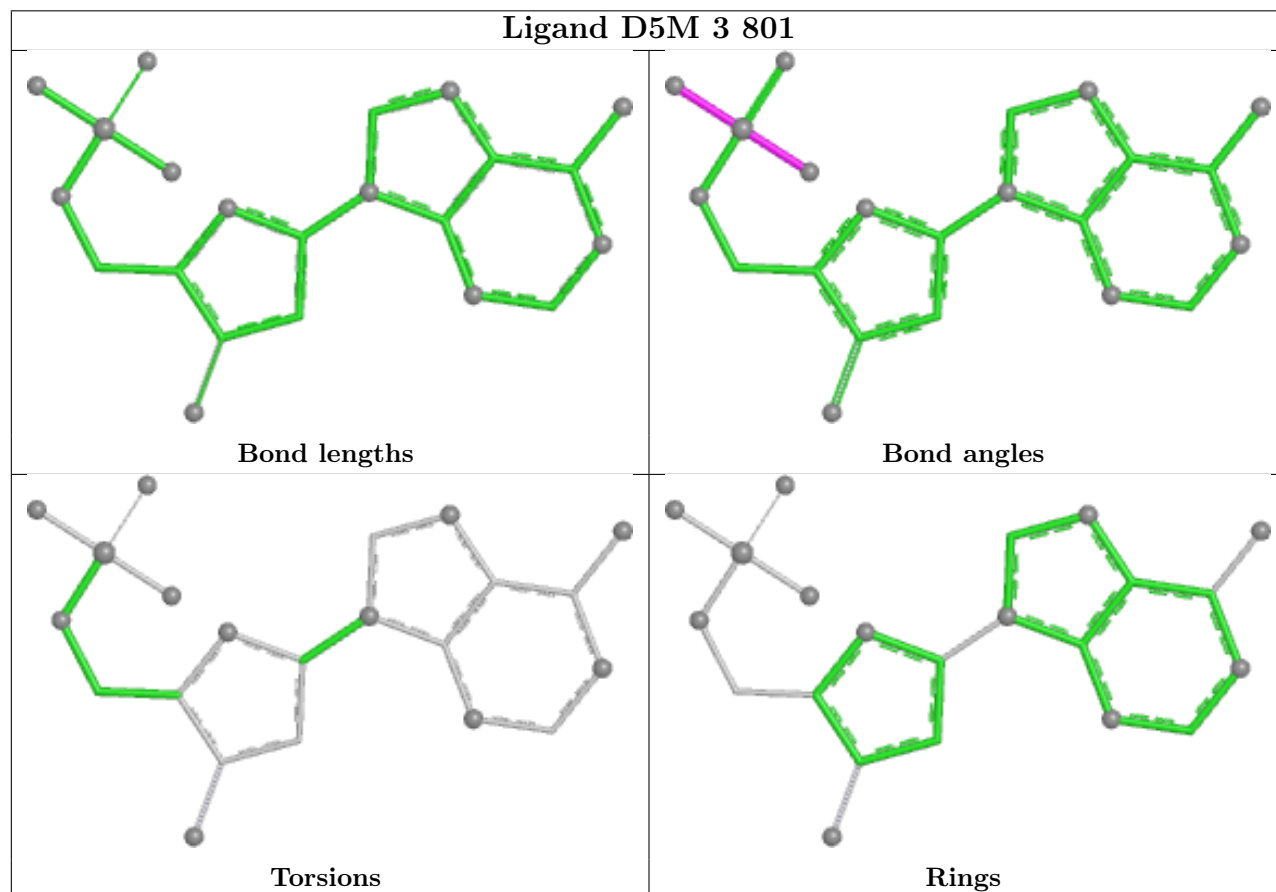
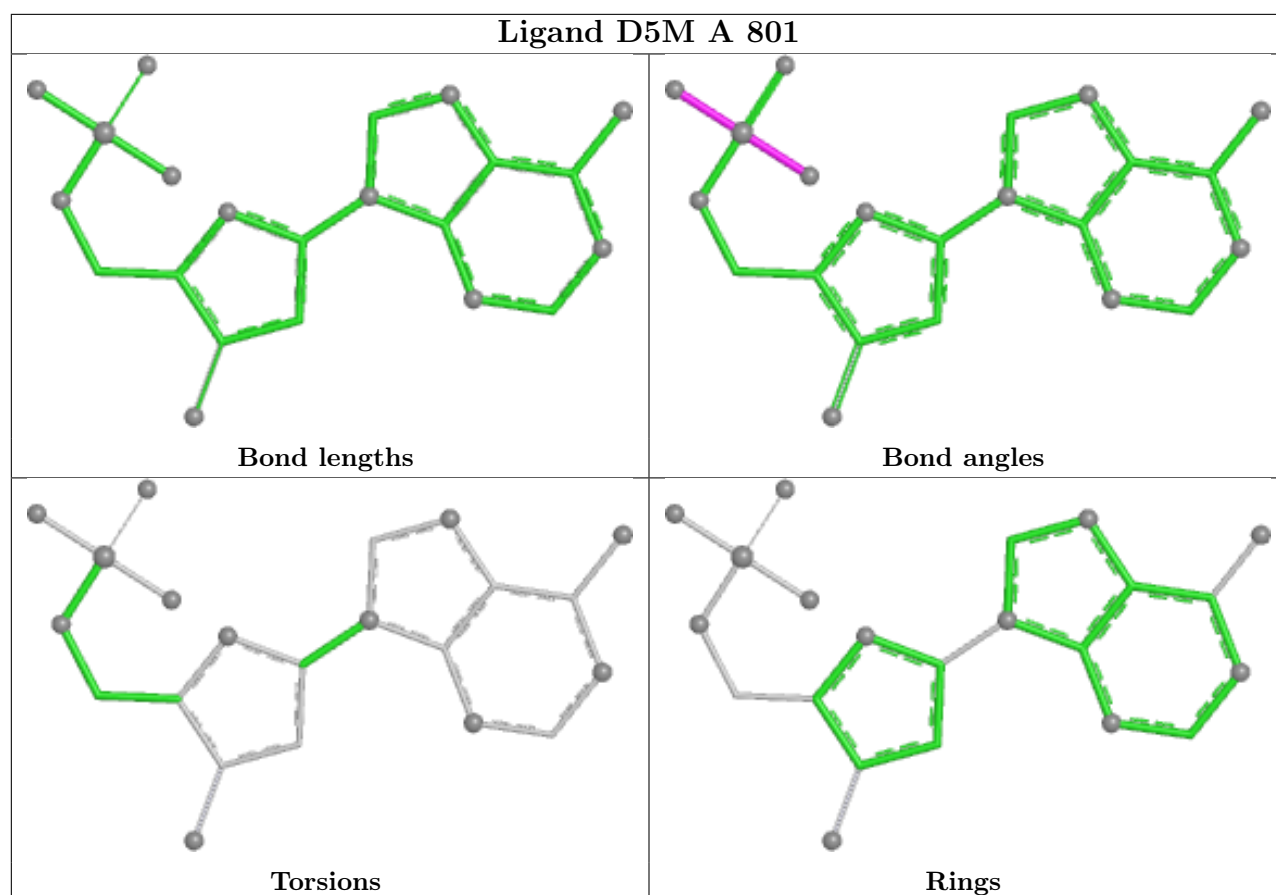
Ligand D5M S 801

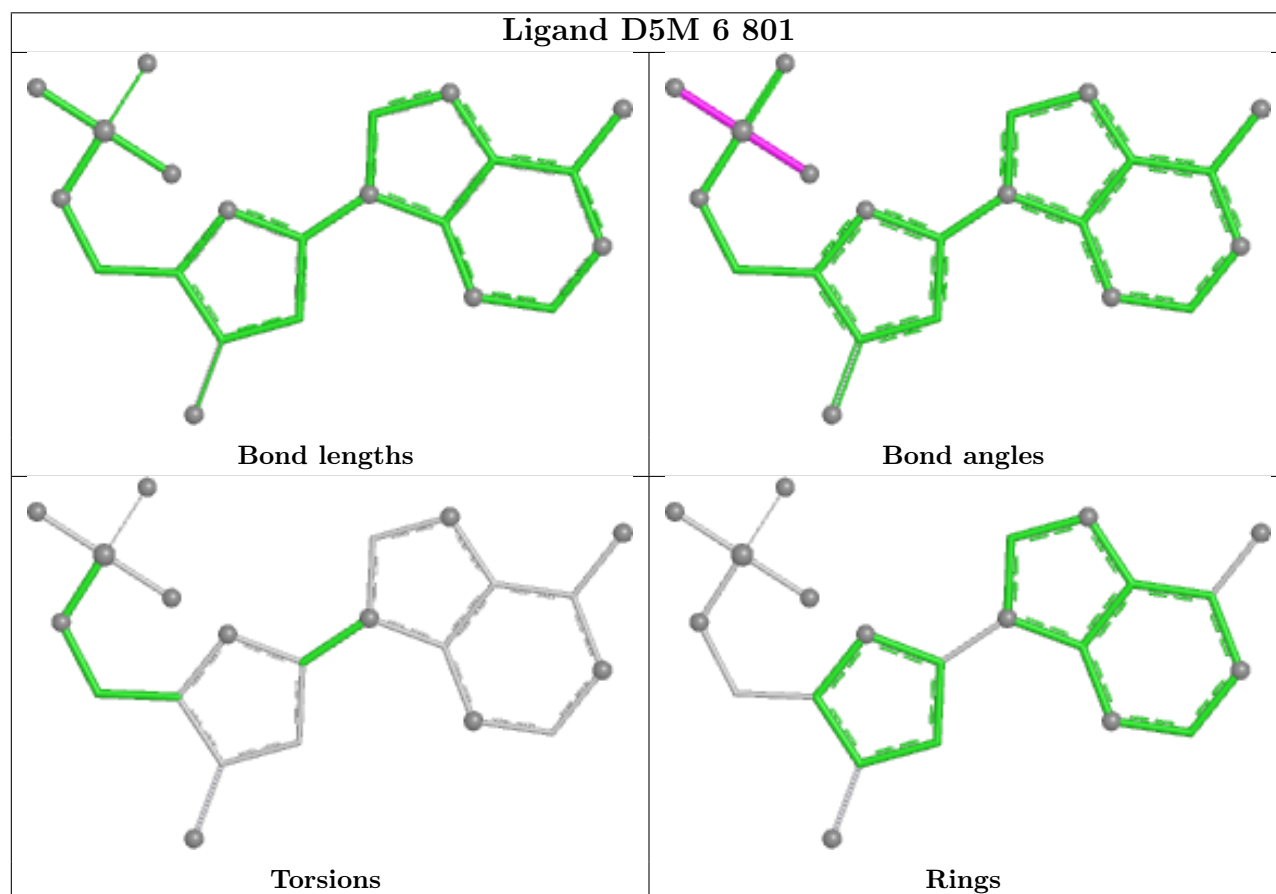
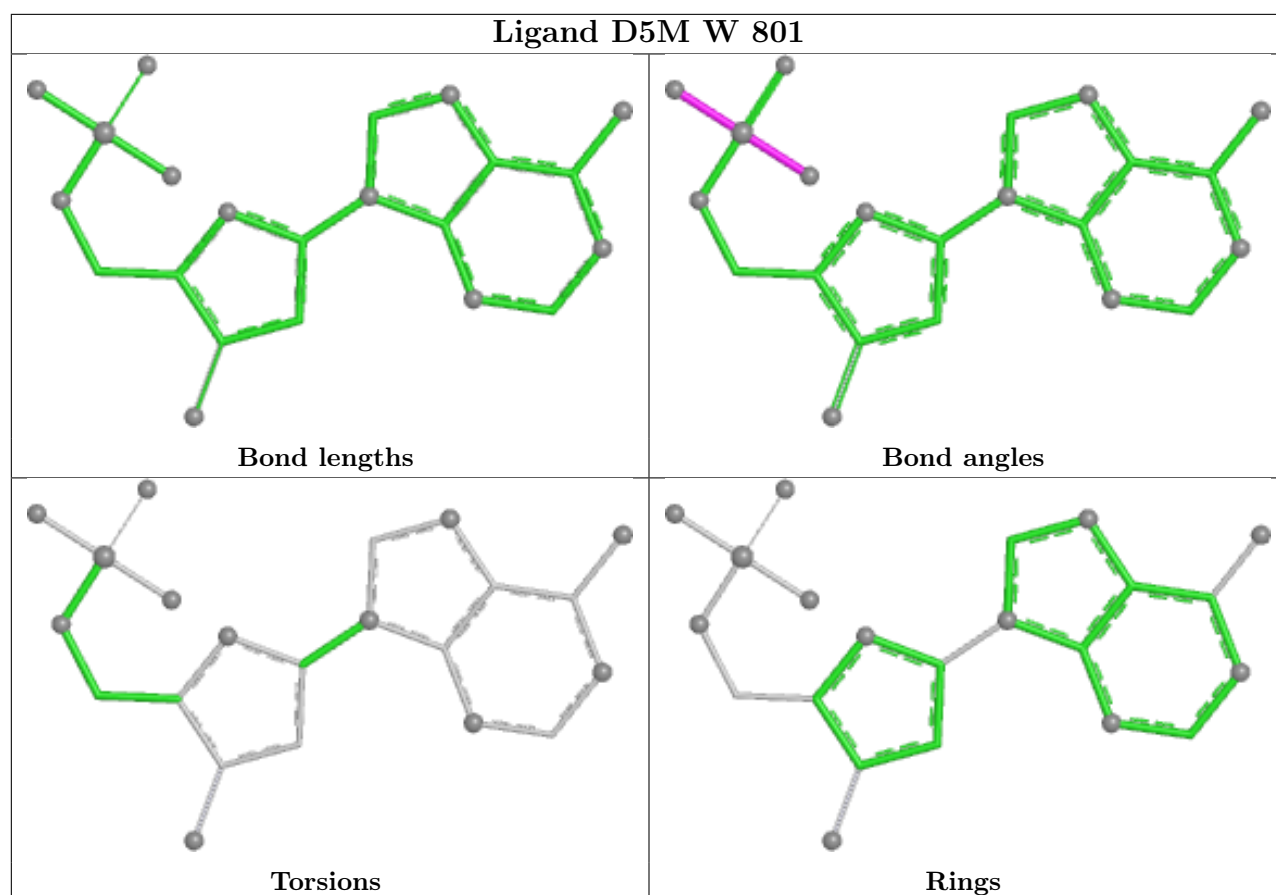


Ligand D5M Z 801

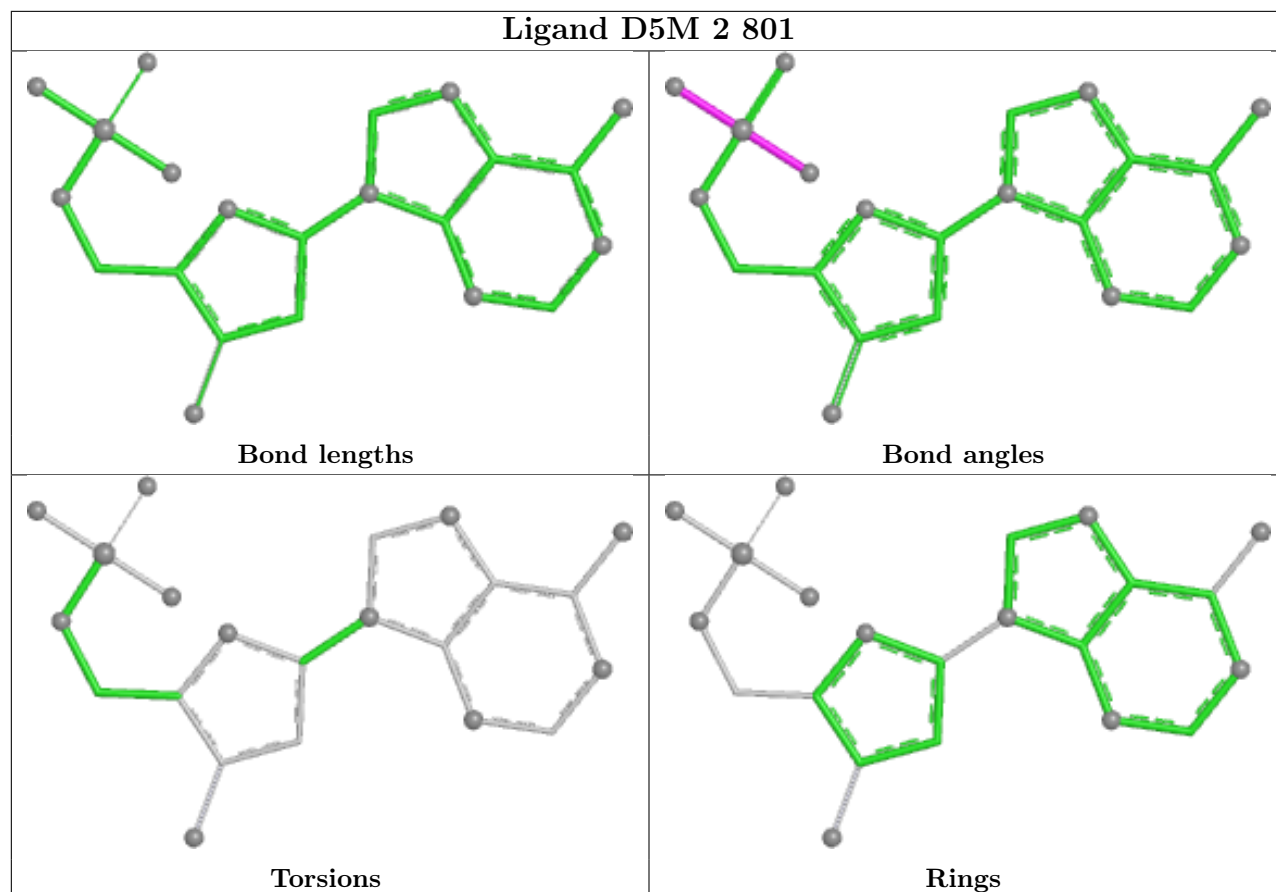




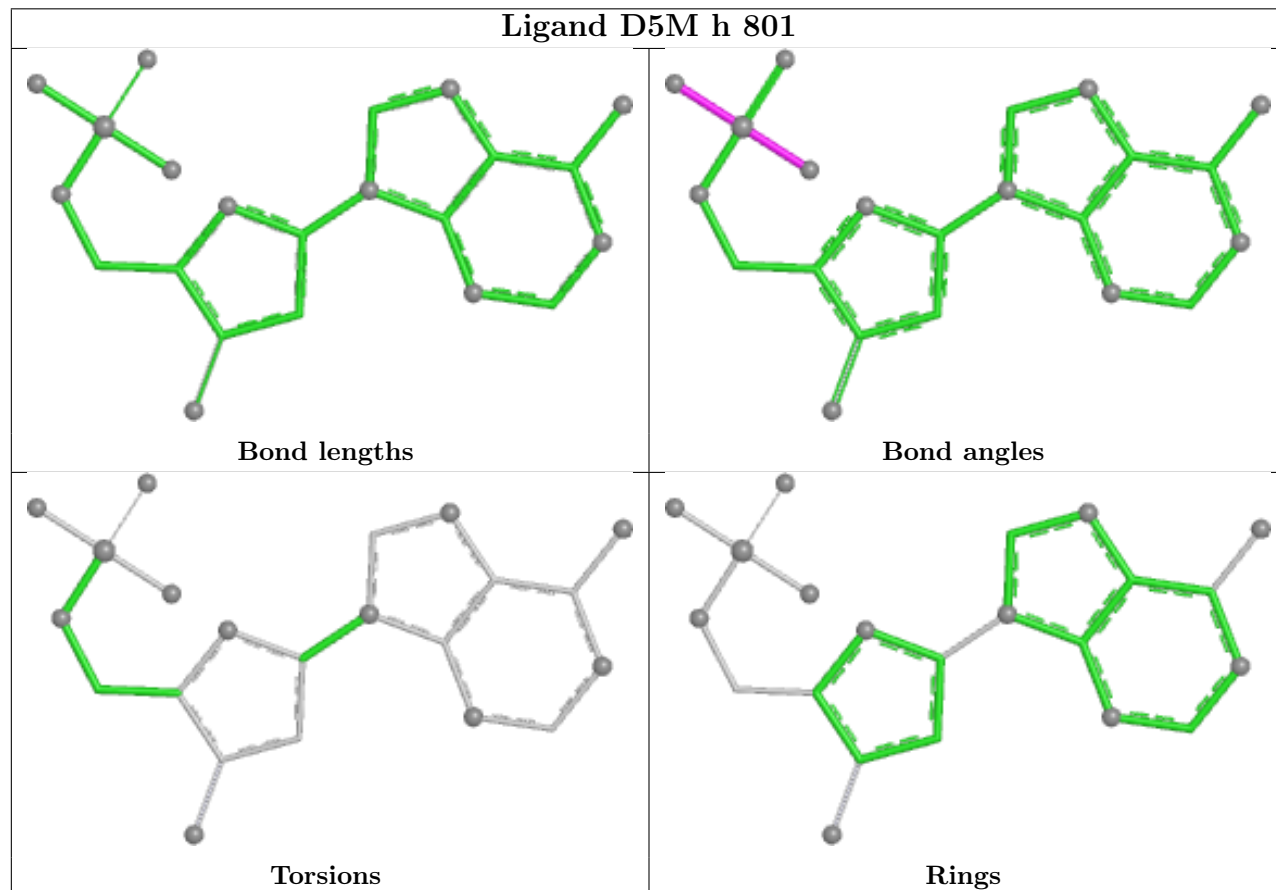


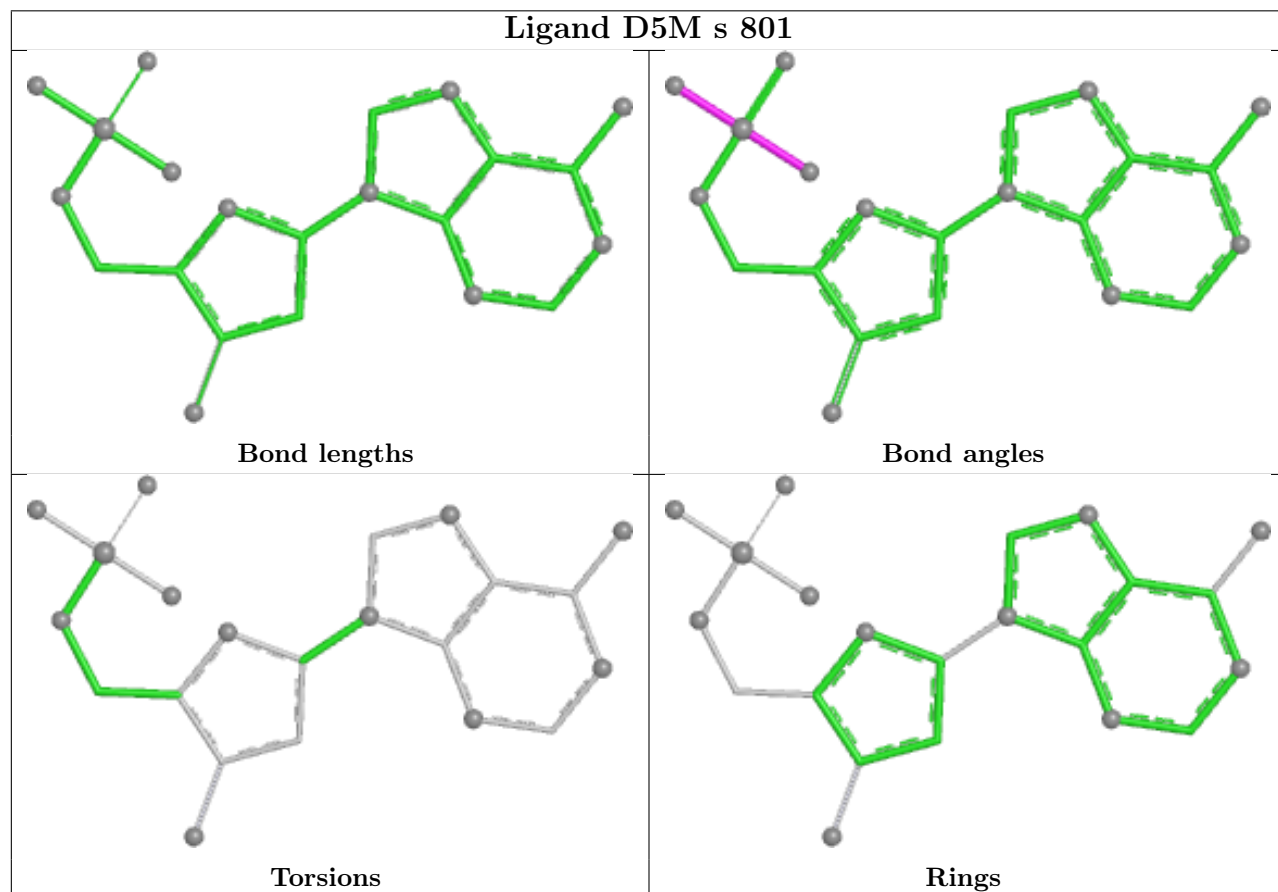
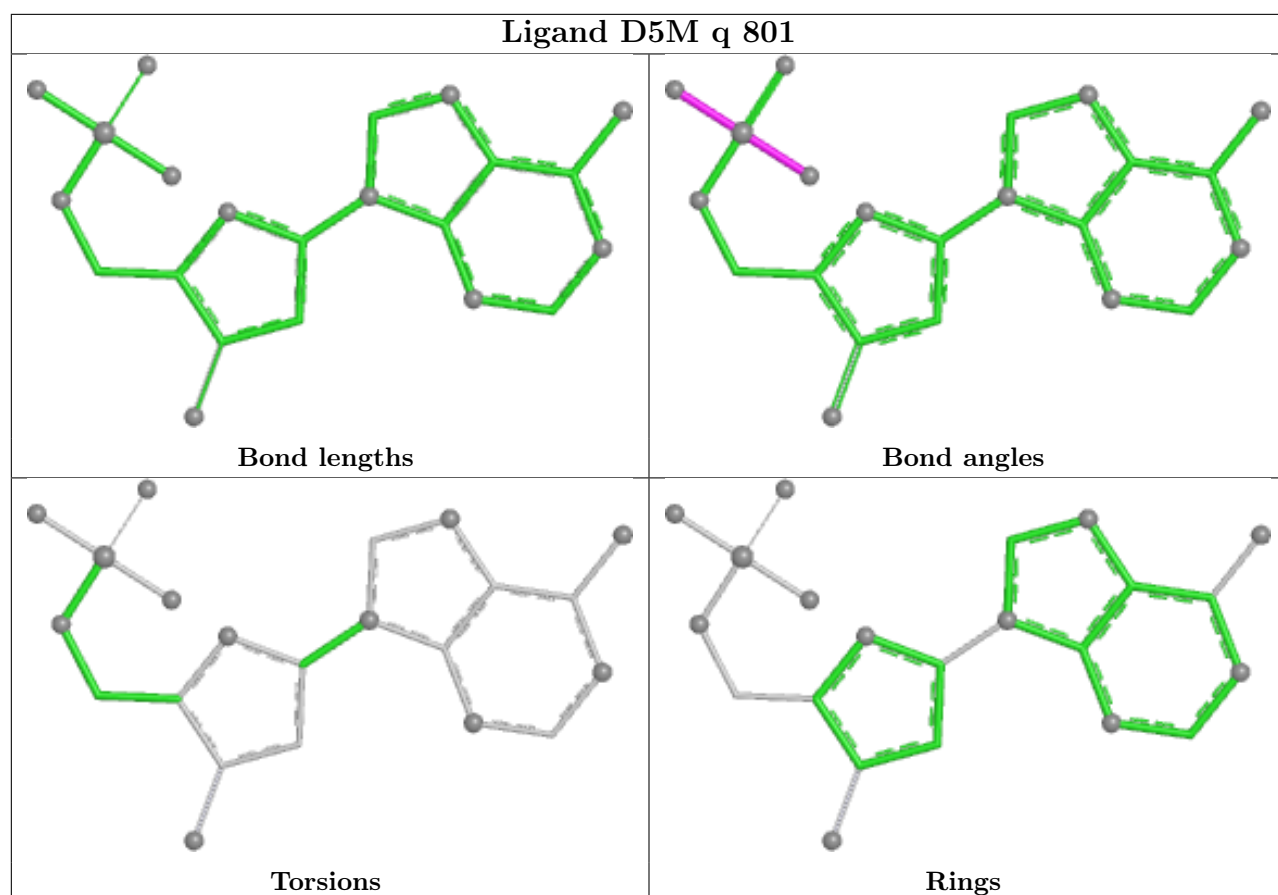


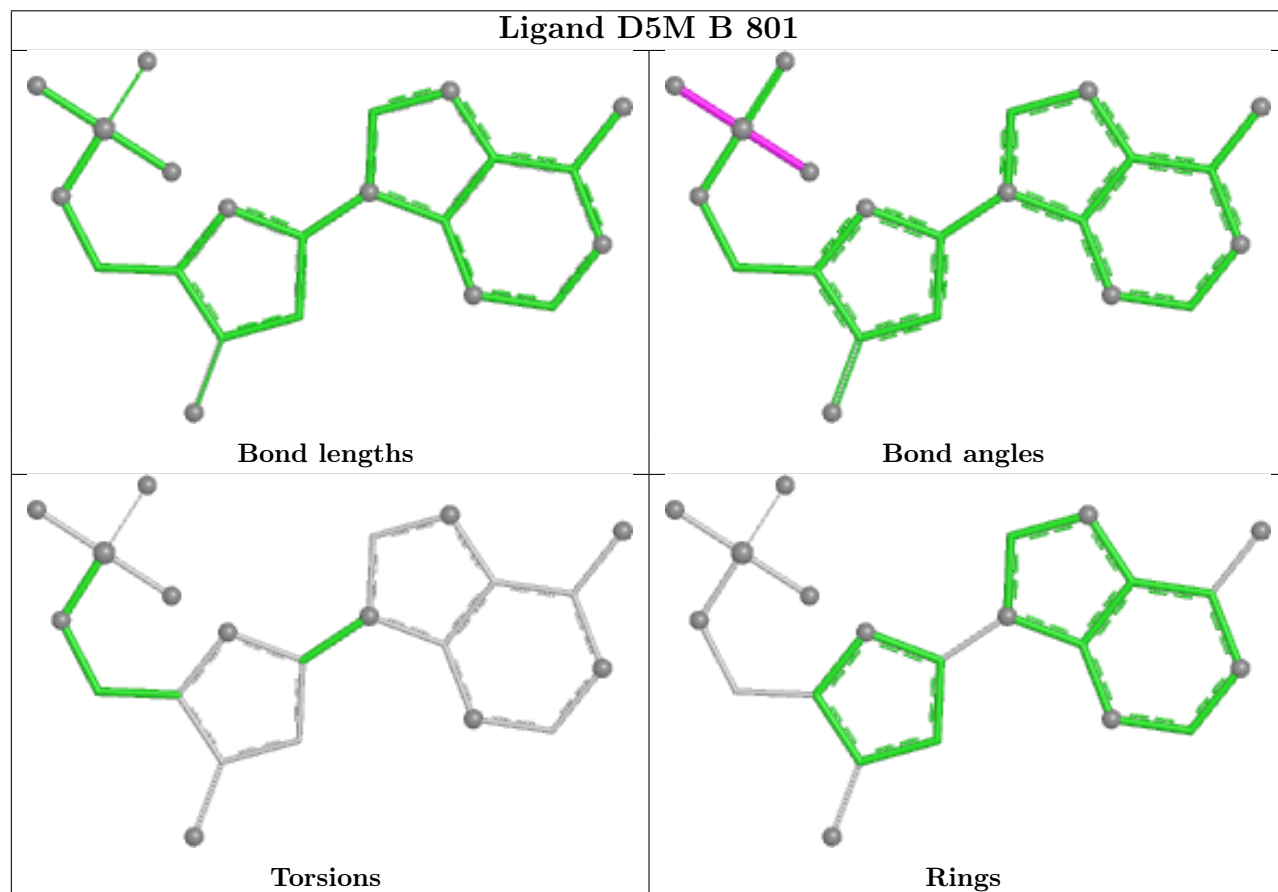
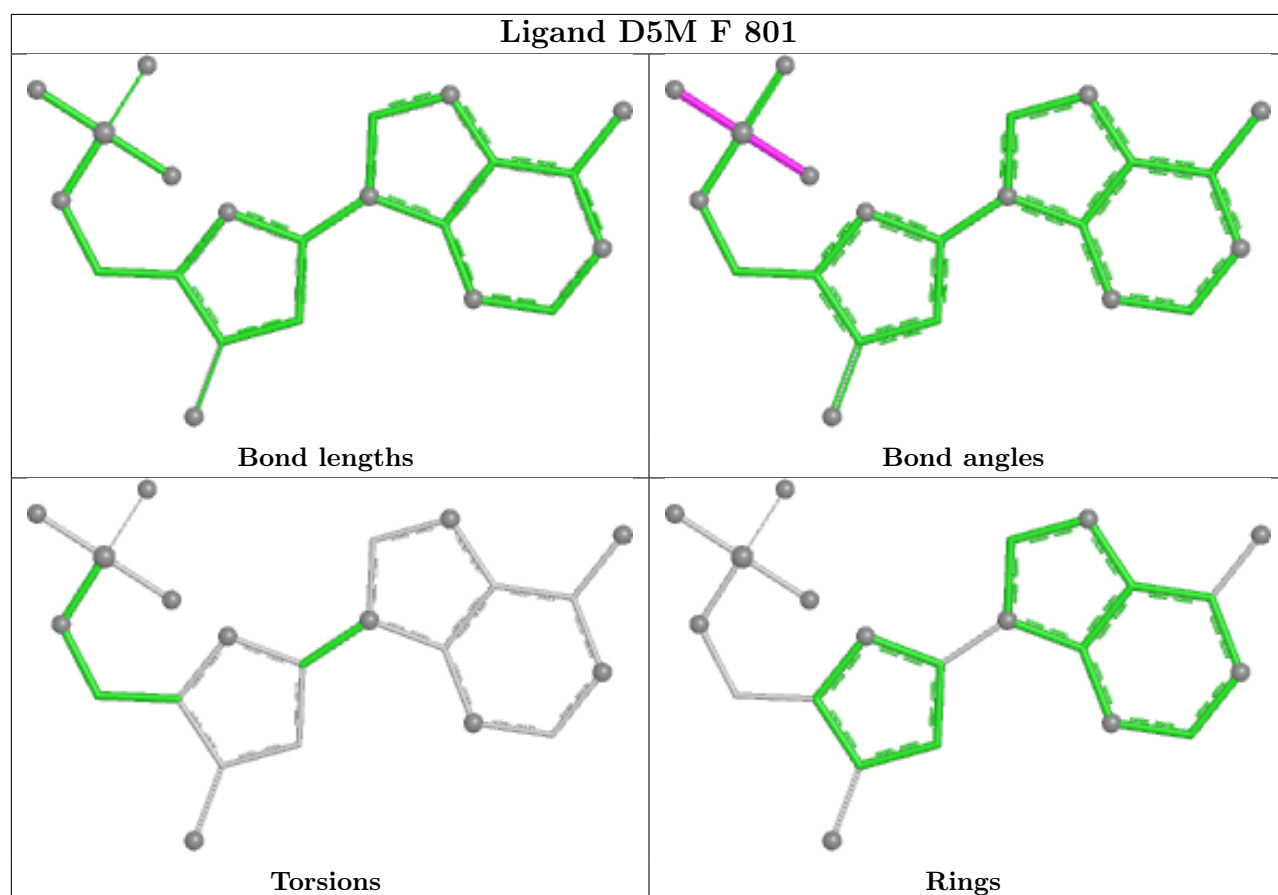
Ligand D5M 2 801

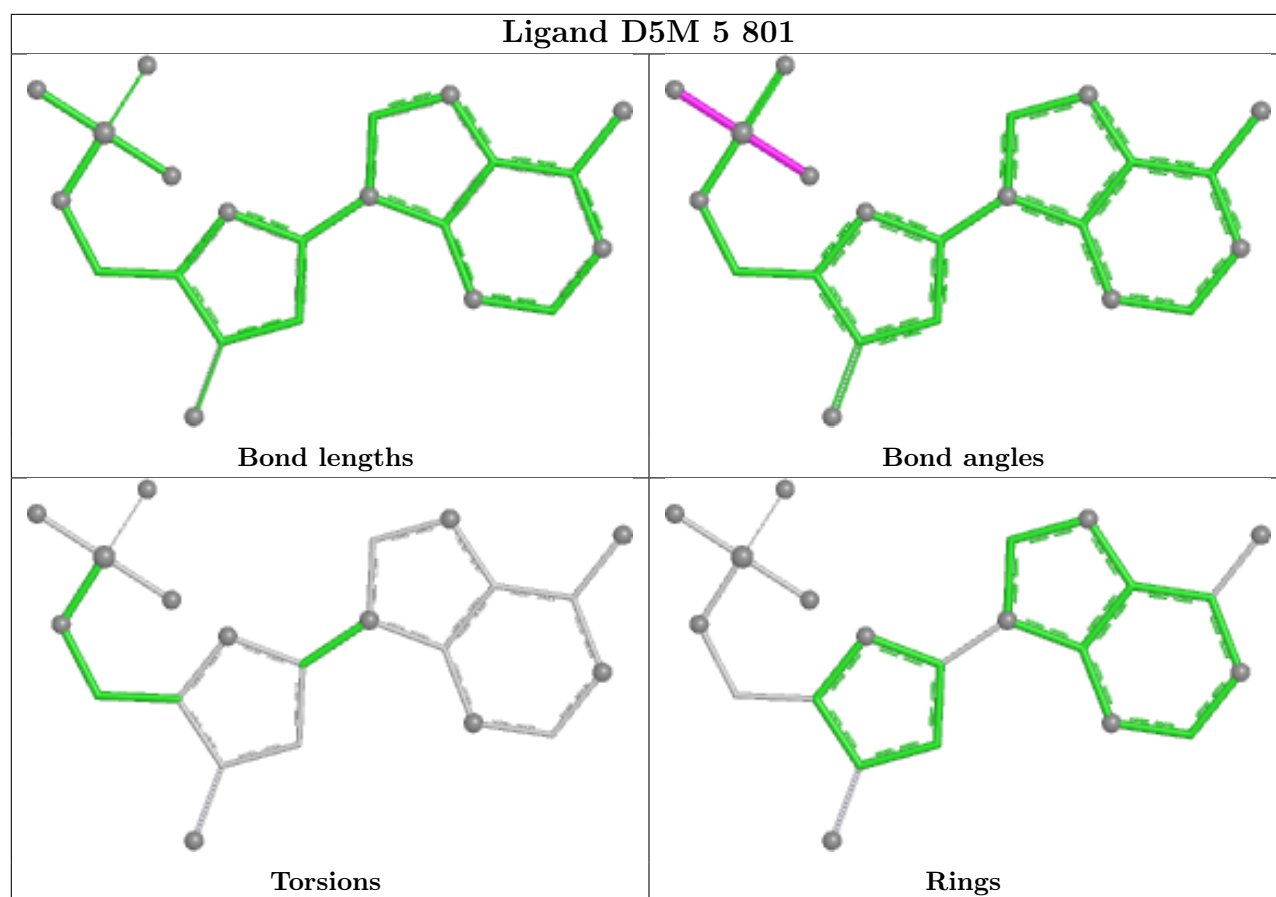


Ligand D5M h 801









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.

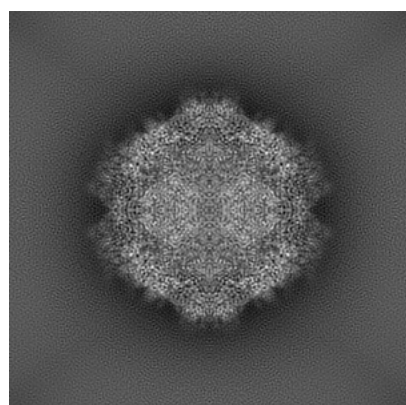
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23190. These allow visual inspection of the internal detail of the map and identification of artifacts.

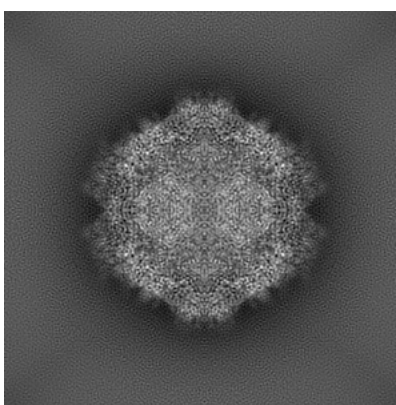
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

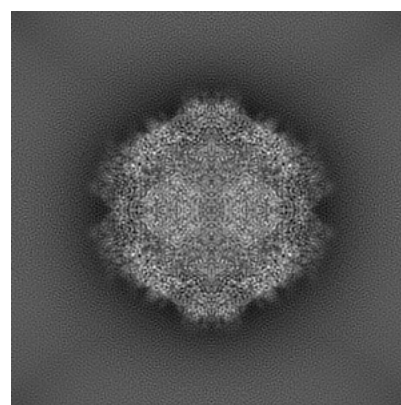
6.1.1 Primary map



X



Y

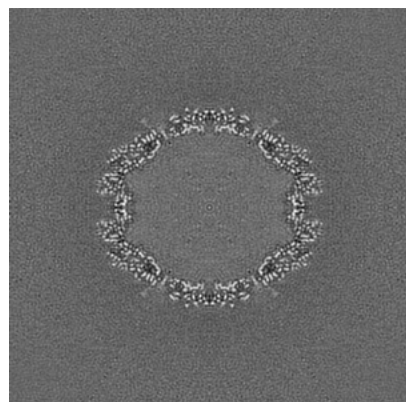


Z

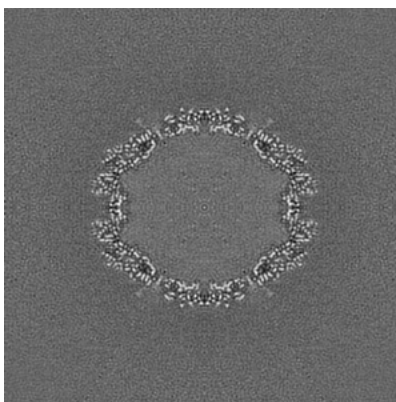
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

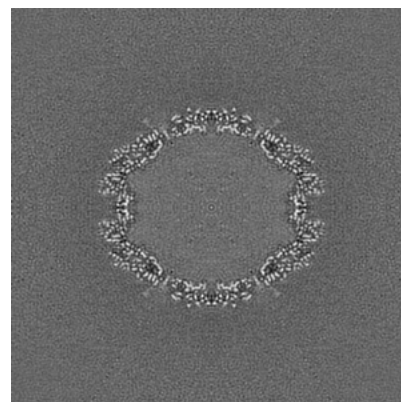
6.2.1 Primary map



X Index: 210



Y Index: 210

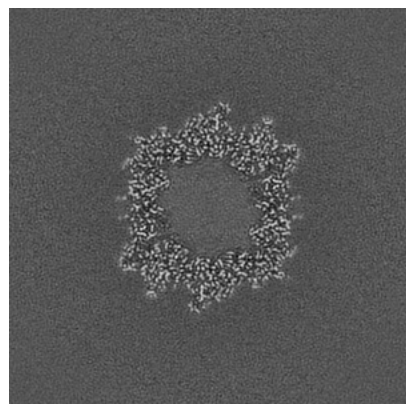


Z Index: 210

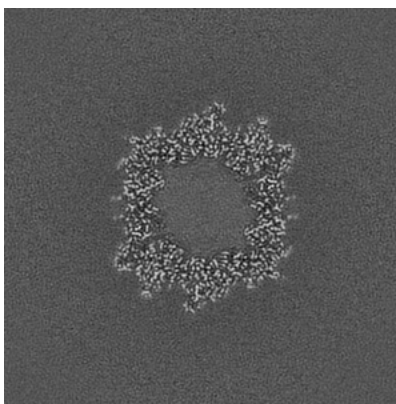
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

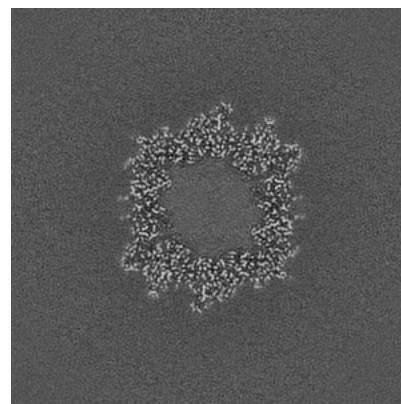
6.3.1 Primary map



X Index: 271



Y Index: 271

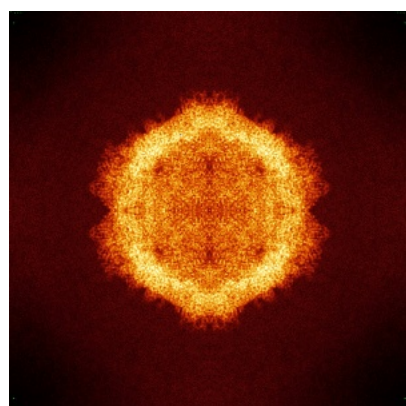


Z Index: 271

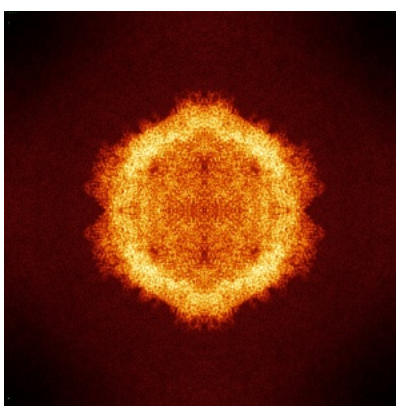
The images above show the largest variance slices of the map in three orthogonal directions.

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

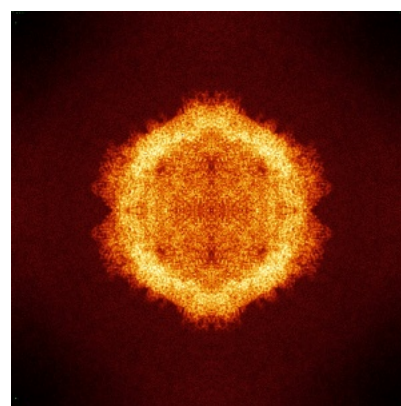
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views

This section was not generated.

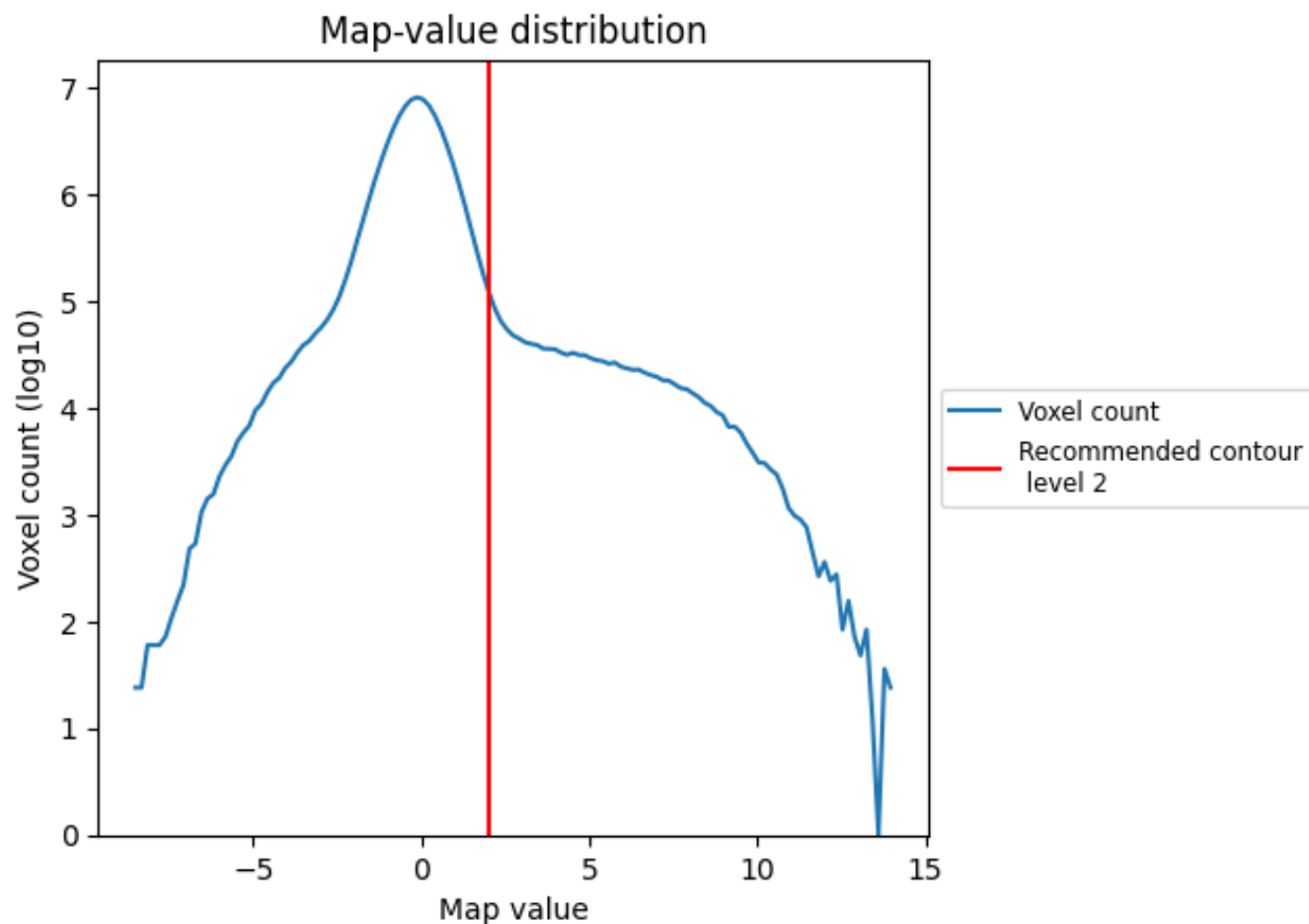
6.6 Mask visualisation

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

7 Map analysis [i](#)

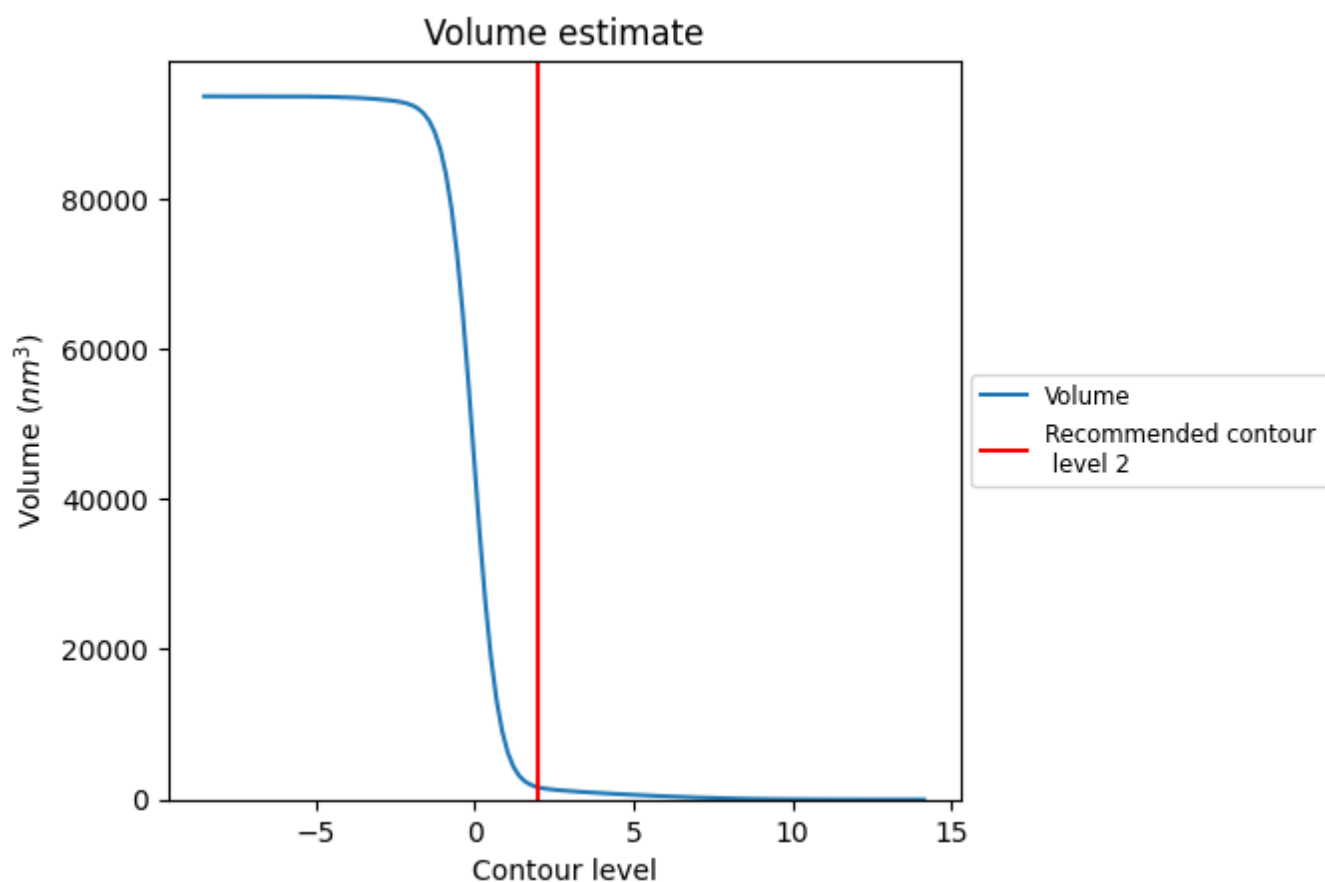
This section contains the results of statistical analysis of the map.

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.

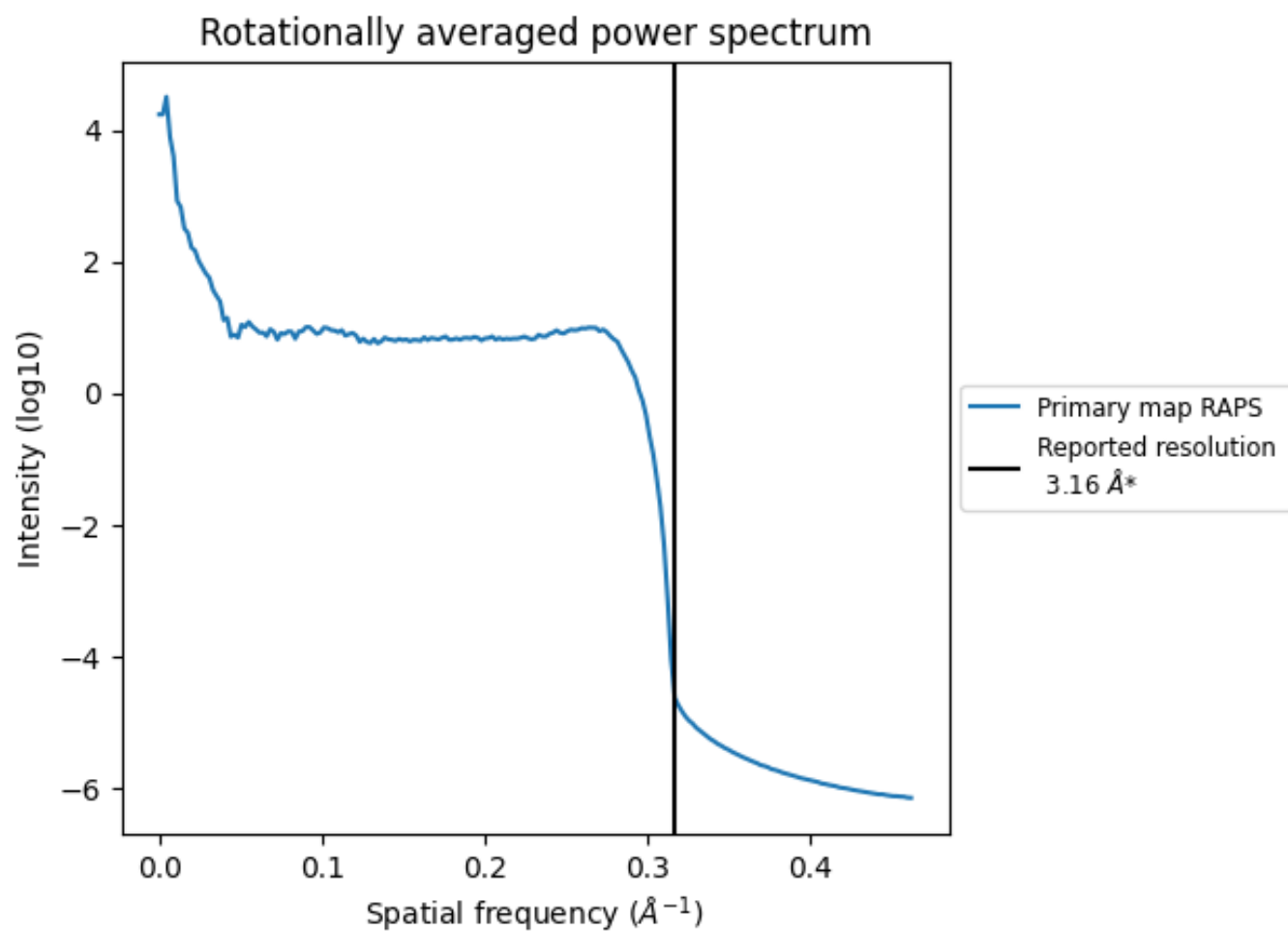
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1648 nm³; this corresponds to an approximate mass of 1489 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 0.316 Å⁻¹

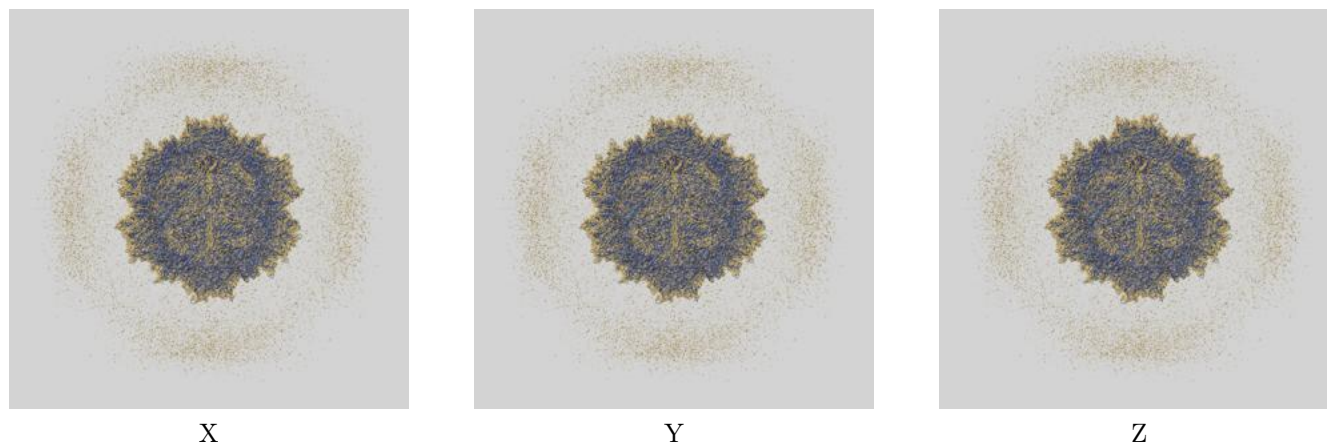
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

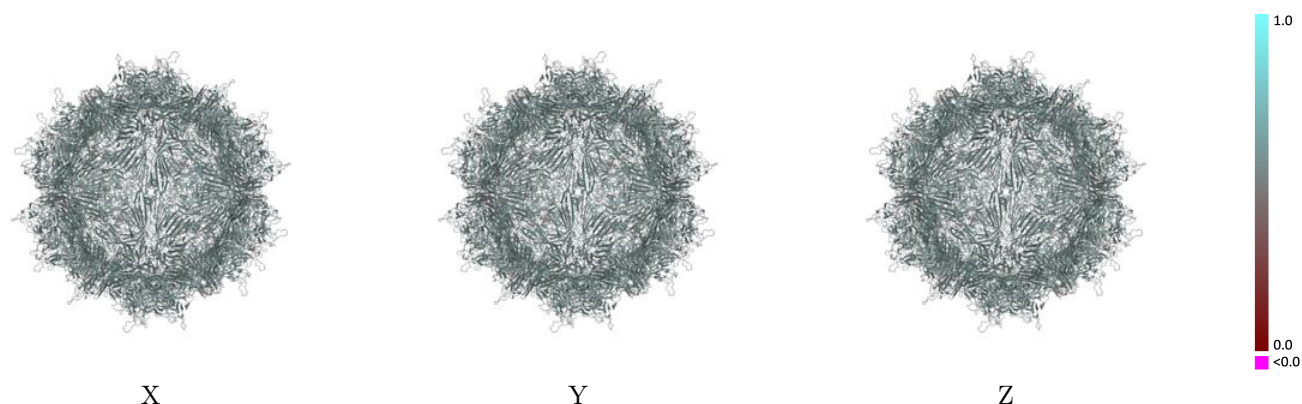
This section contains information regarding the fit between EMDB map EMD-23190 and PDB model 7L5U. Per-residue inclusion information can be found in [section 3](#) on [page 13](#).

9.1 Map-model overlay [i](#)



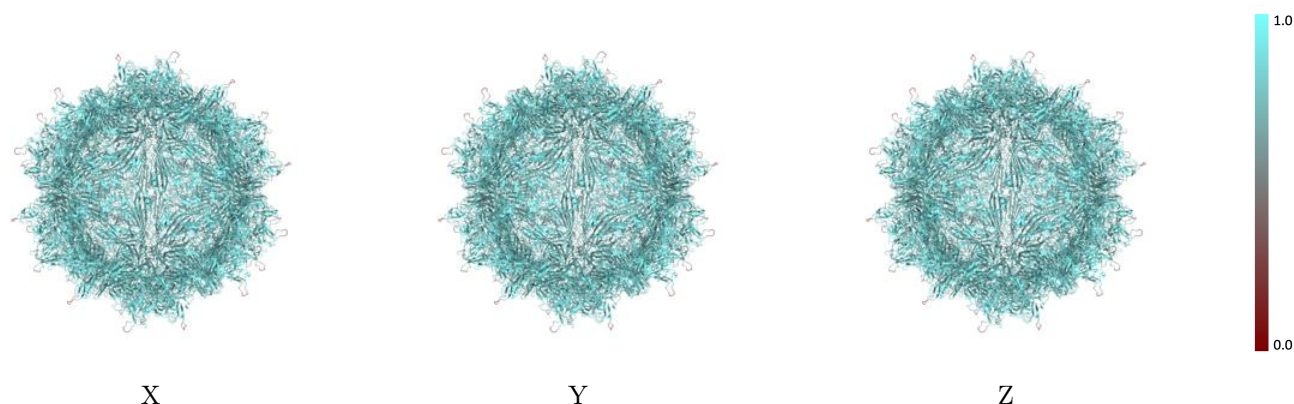
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



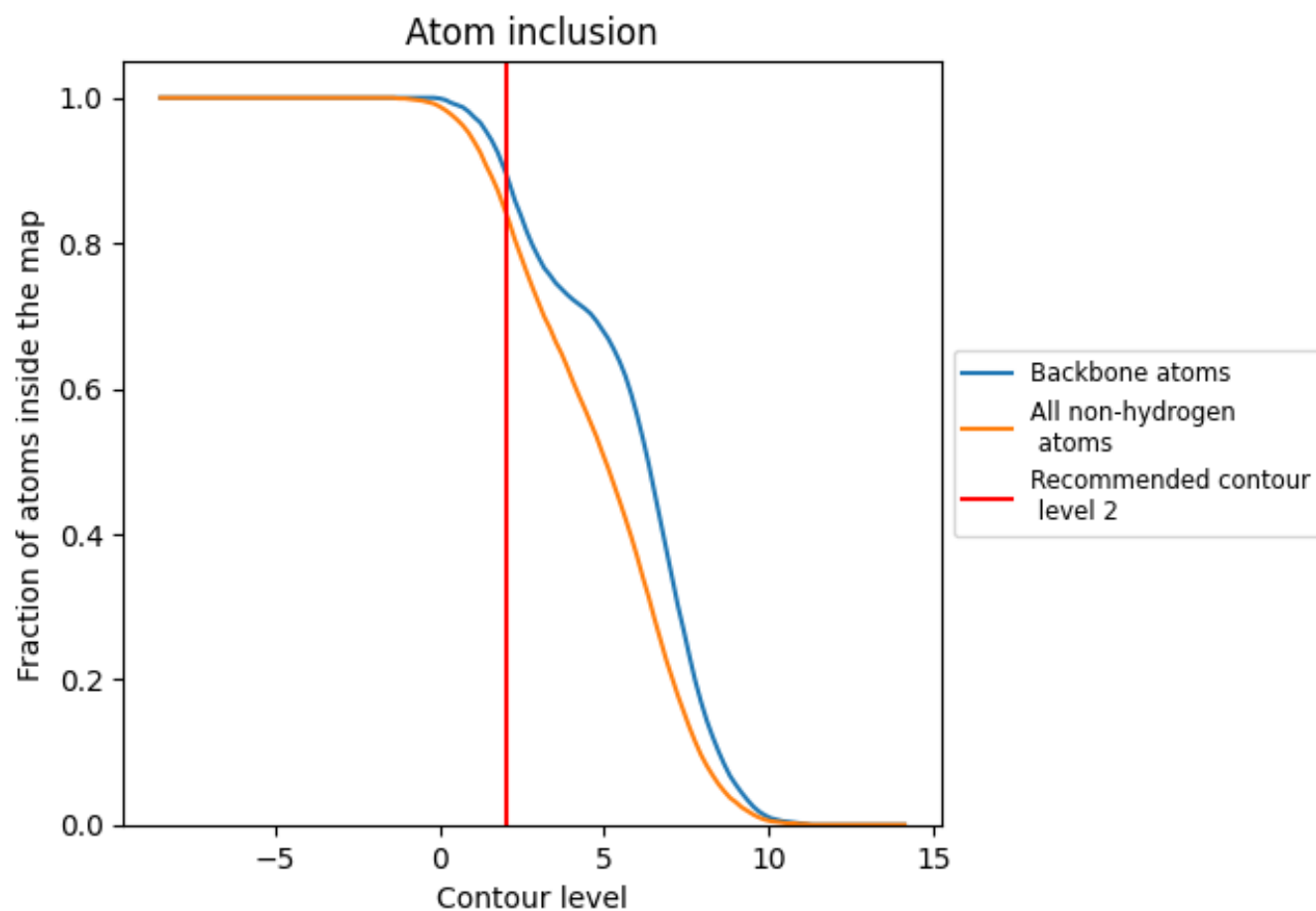
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 90% of all backbone atoms, 84% 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	 0.8430	 0.5460
1	 0.8450	 0.5470
2	 0.8450	 0.5450
3	 0.8420	 0.5450
4	 0.8420	 0.5480
5	 0.8450	 0.5470
6	 0.8450	 0.5470
7	 0.8450	 0.5460
8	 0.8440	 0.5470
A	 0.8410	 0.5460
B	 0.8450	 0.5460
C	 0.8420	 0.5470
D	 0.8450	 0.5460
E	 0.8440	 0.5460
F	 0.8410	 0.5460
G	 0.8440	 0.5460
H	 0.8450	 0.5470
I	 0.8420	 0.5460
J	 0.8450	 0.5470
K	 0.8420	 0.5470
L	 0.8450	 0.5460
M	 0.8440	 0.5460
N	 0.8450	 0.5470
O	 0.8440	 0.5470
P	 0.8440	 0.5460
Q	 0.8420	 0.5470
R	 0.8450	 0.5460
S	 0.8450	 0.5460
T	 0.8420	 0.5470
U	 0.8450	 0.5470
V	 0.8420	 0.5470
W	 0.8450	 0.5480
X	 0.8440	 0.5450
Y	 0.8450	 0.5460
Z	 0.8440	 0.5470



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Chain	Atom inclusion	Q-score
a	 0.8420	 0.5460
b	 0.8410	 0.5470
c	 0.8410	 0.5460
d	 0.8420	 0.5460
e	 0.8410	 0.5460
f	 0.8410	 0.5460
g	 0.8420	 0.5460
h	 0.8440	 0.5470
i	 0.8450	 0.5460
j	 0.8460	 0.5460
k	 0.8460	 0.5460
l	 0.8440	 0.5470
m	 0.8420	 0.5460
n	 0.8420	 0.5470
o	 0.8440	 0.5450
p	 0.8420	 0.5470
q	 0.8450	 0.5450
r	 0.8450	 0.5470
s	 0.8450	 0.5460
t	 0.8440	 0.5470
u	 0.8420	 0.5460
v	 0.8410	 0.5450
w	 0.8440	 0.5450
x	 0.8420	 0.5460
y	 0.8410	 0.5450
z	 0.8450	 0.5460