



Full wwPDB EM Validation Report ⓘ

May 17, 2025 – 11:30 PM EDT

PDB ID : 7L6H / pdb_00007l6h
EMDB ID : EMD-23204
Title : The genome-containing AAV13 capsid
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-12-23
Resolution : 3.00 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev118
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

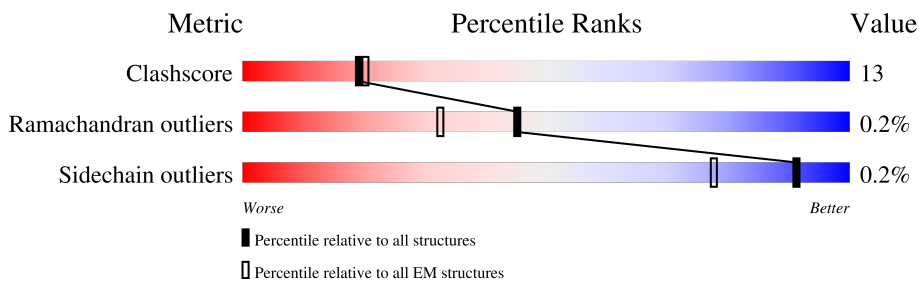
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.00 Å.

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



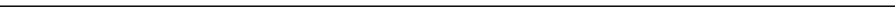
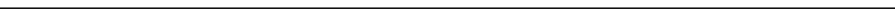
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	1	517	73% 26%
1	2	517	74% 26%
1	3	517	73% 26% .
1	4	517	73% 26%
1	5	517	73% 27% .
1	6	517	74% 26% .
1	7	517	72% 27% .
1	8	517	73% 26%

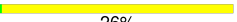
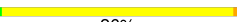
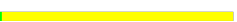
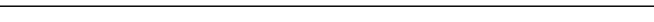
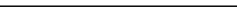
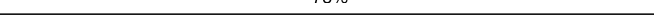
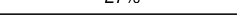
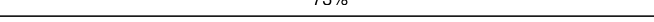
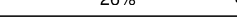
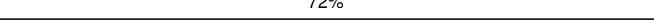
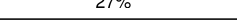
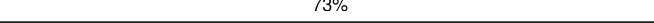
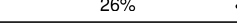
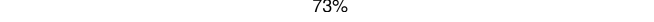
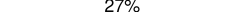
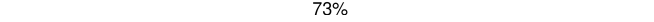
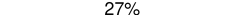
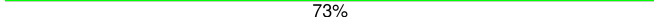
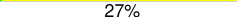
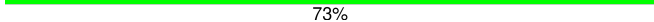
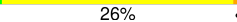
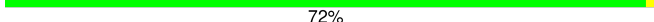
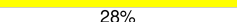
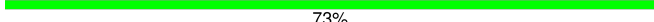
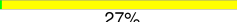
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Mol	Chain	Length	Quality of chain	
1	A	517		
1	B	517		.
1	C	517		
1	D	517		.
1	E	517		.
1	F	517		.
1	G	517		
1	H	517		.
1	I	517		
1	J	517		
1	K	517		
1	L	517		.
1	M	517		.
1	N	517		.
1	O	517		
1	P	517		
1	Q	517		.
1	R	517		.
1	S	517		.
1	T	517		.
1	U	517		
1	V	517		
1	W	517		.
1	X	517		.
1	Y	517		.

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Mol	Chain	Length	Quality of chain	
1	Z	517		26% 
1	a	517		26% 
1	b	517		27% 
1	c	517		26% 
1	d	517		26% 
1	e	517		26% 
1	f	517		27% 
1	g	517		27% 
1	h	517		27% 
1	i	517		27% 
1	j	517		27% 
1	k	517		28% 
1	l	517		27% 
1	m	517		27% 
1	n	517		27% 
1	o	517		26% 
1	p	517		27% 
1	q	517		26% 
1	r	517		27% 
1	s	517		27% 
1	t	517		27% 
1	u	517		26% 
1	v	517		28% 
1	w	517		27% 
1	x	517		27% 

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Mol	Chain	Length	Quality of chain
1	y	517	72% 27%
1	z	517	72% 27%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 251400 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	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	B	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	C	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	D	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	E	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	F	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	G	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	H	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	I	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	J	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	K	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	L	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	M	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	N	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	O	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	P	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	Q	517	Total 4168	C 2627	N 734	O 792	S 15	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	S	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	T	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	U	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	V	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	W	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	X	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	Y	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	Z	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	a	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	b	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	c	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	d	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	e	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	f	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	g	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	h	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	i	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	j	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	k	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	l	517	Total 4168	C 2627	N 734	O 792	S 15	3	0

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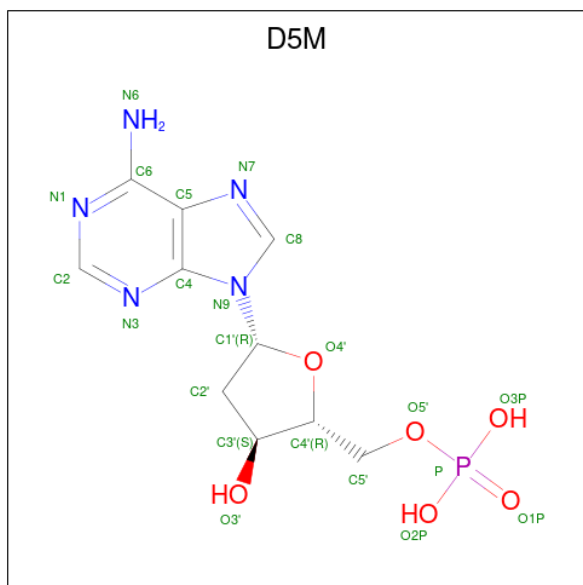
Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	n	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	o	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	p	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	q	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	r	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	s	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	t	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	u	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	v	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	w	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	x	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	y	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	z	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	1	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	2	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	3	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	4	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	5	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	6	517	Total 4168	C 2627	N 734	O 792	S 15	3	0
1	7	517	Total 4168	C 2627	N 734	O 792	S 15	3	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	517	Total	C	N	O	S	3	0
			4168	2627	734	792	15		

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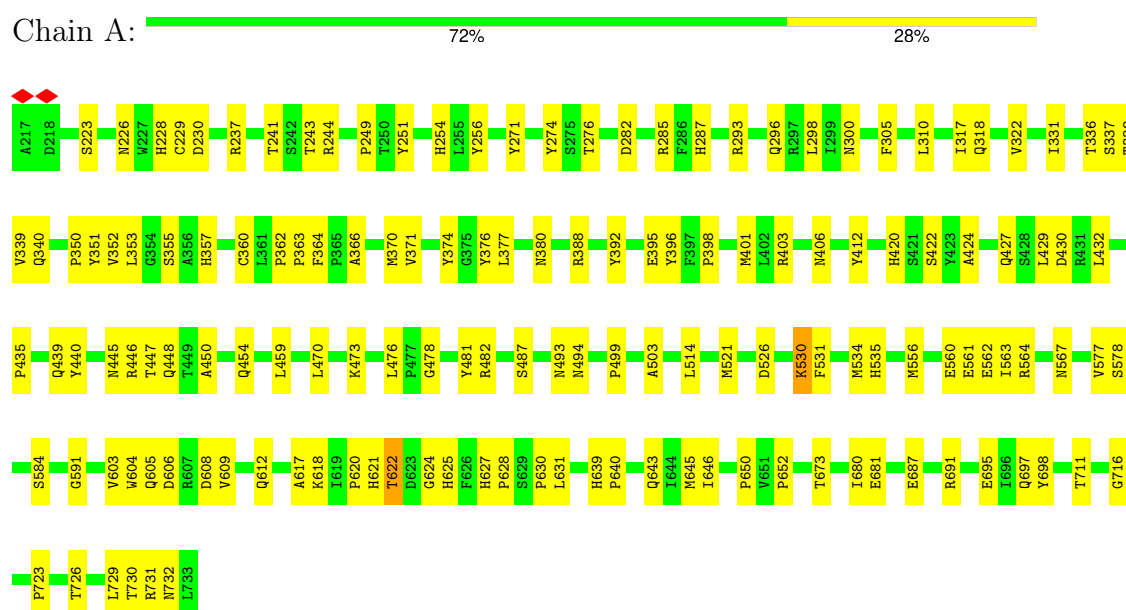
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Mol	Chain	Residues	Atoms					AltConf
2	1	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	2	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	3	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	4	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	5	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	6	1	Total	C	N	O	P	0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

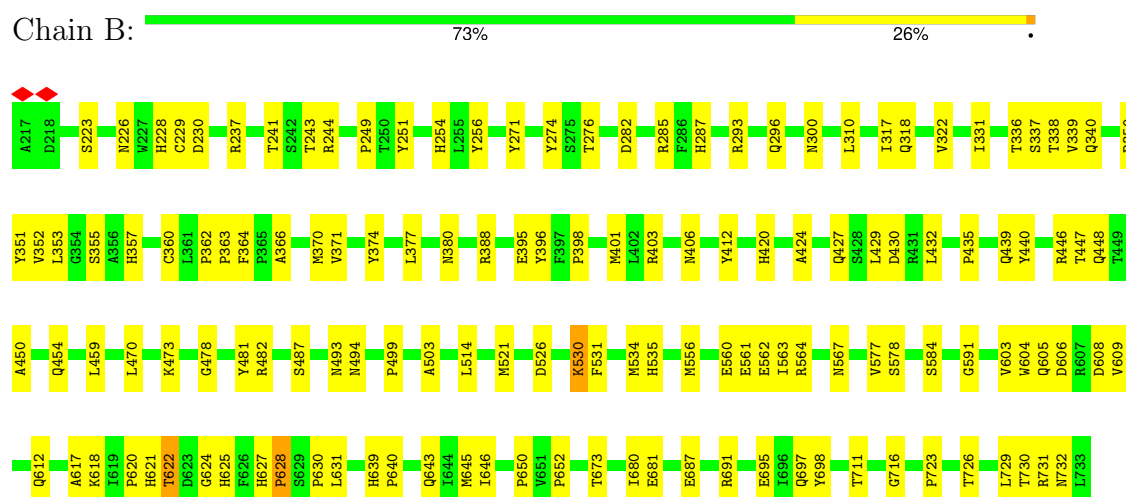
3 Residue-property plots

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.

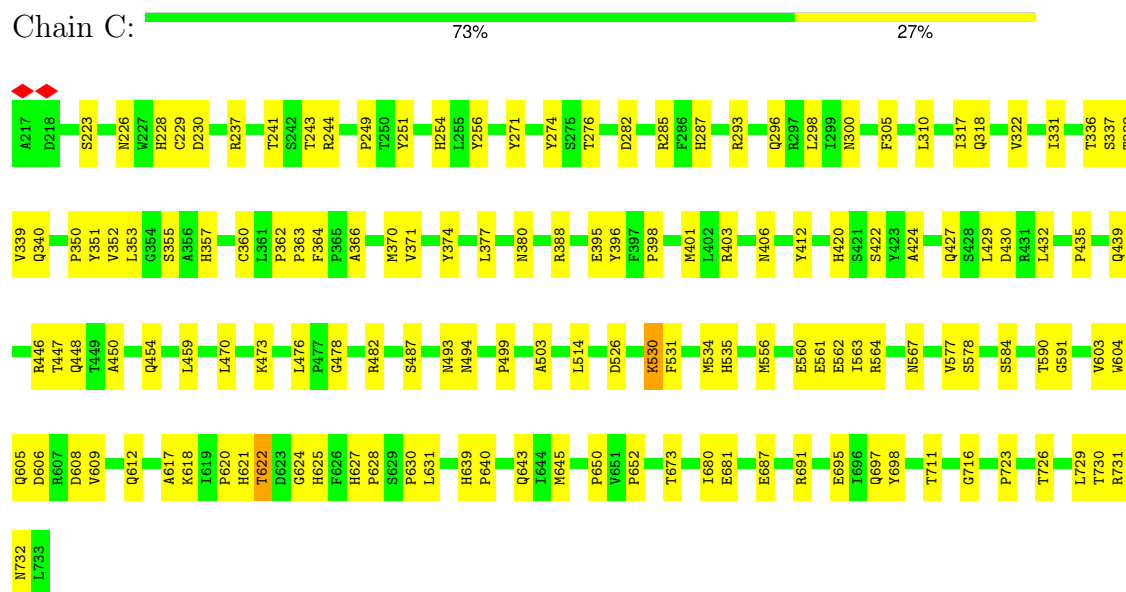
• Molecule 1: Capsid protein



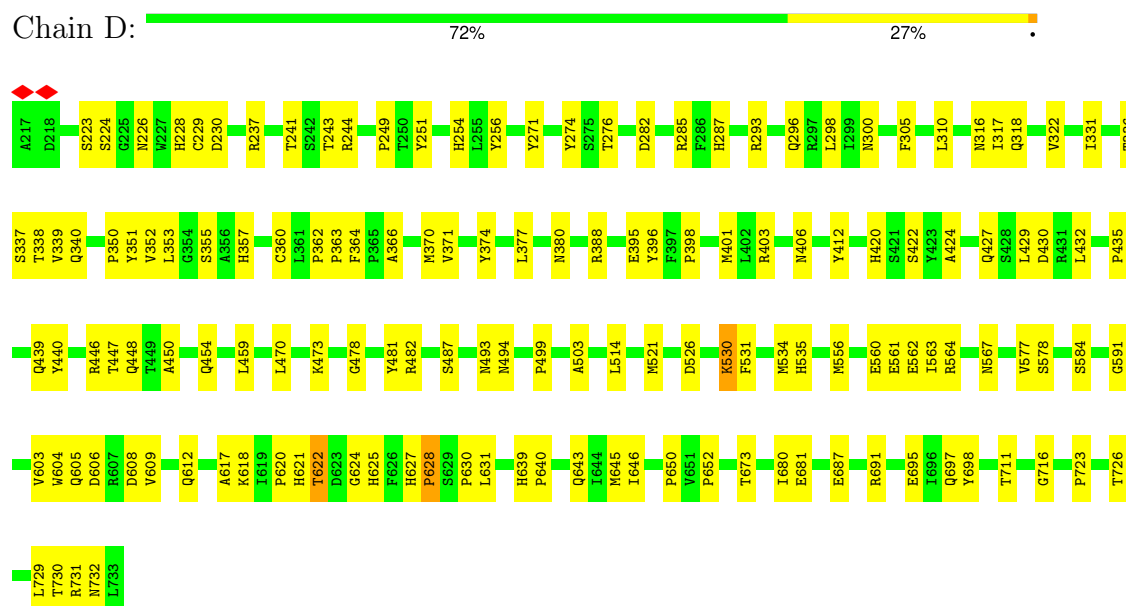
• Molecule 1: Capsid protein



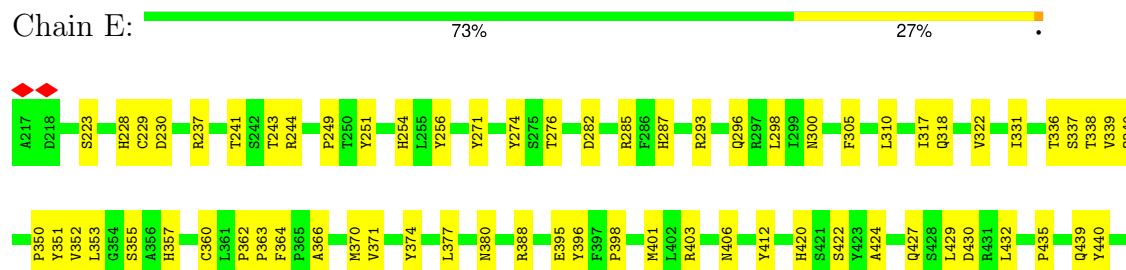
- Molecule 1: Capsid protein

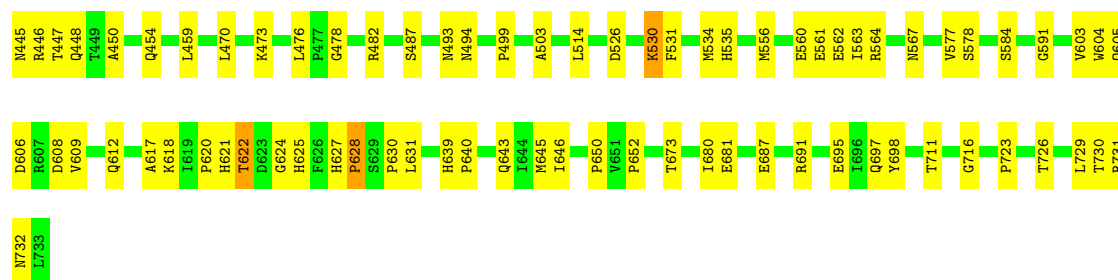


- Molecule 1: Capsid protein



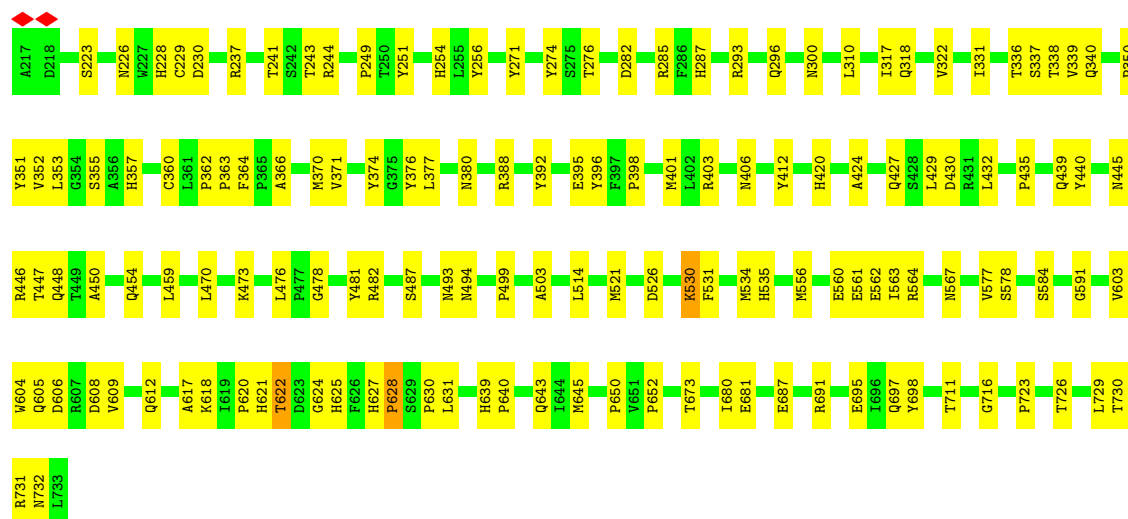
- Molecule 1: Capsid protein





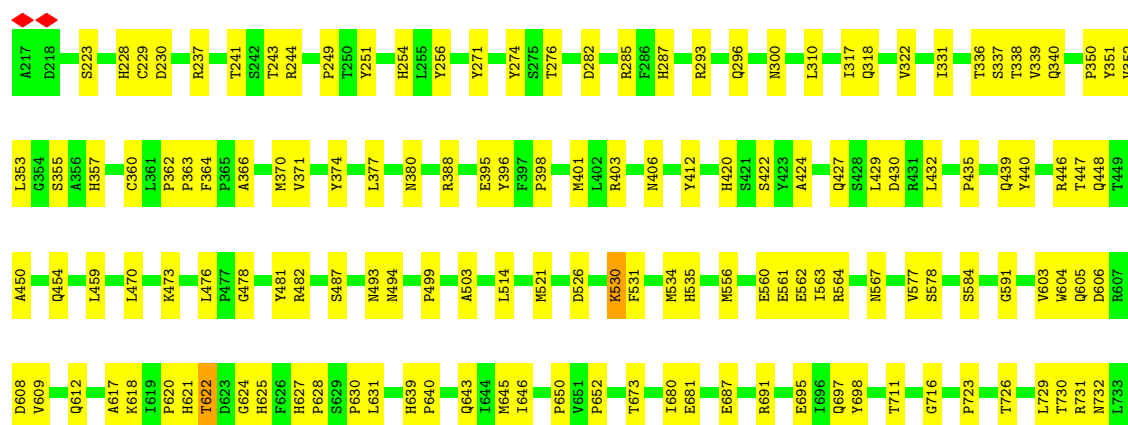
• Molecule 1: Capsid protein

Chain F: 72% 27%



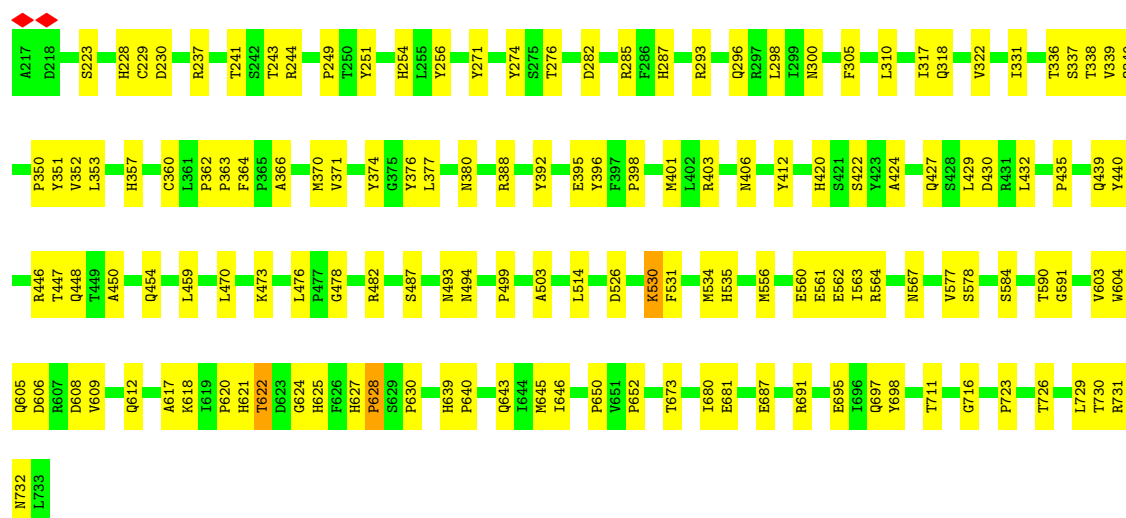
• Molecule 1: Capsid protein

Chain G: 73% 27%



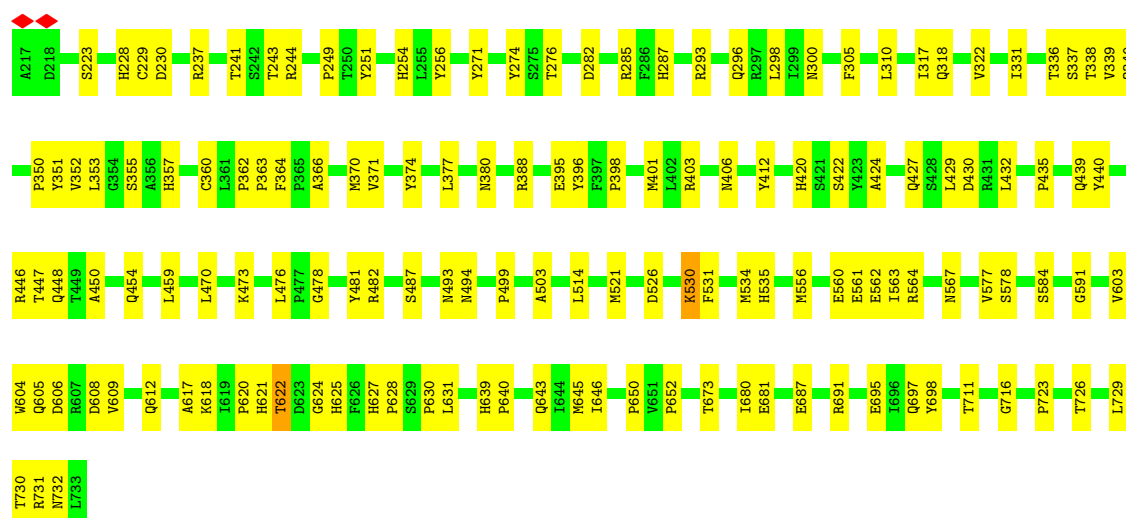
• Molecule 1: Capsid protein

Chain H: 73% 27%



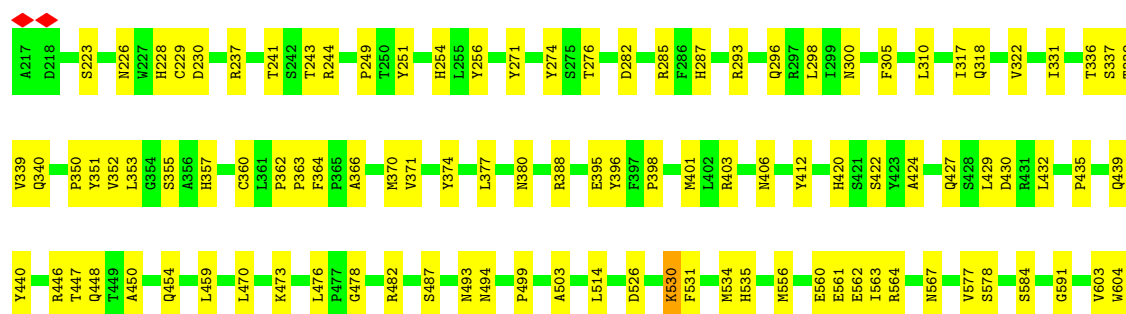
• Molecule 1: Capsid protein

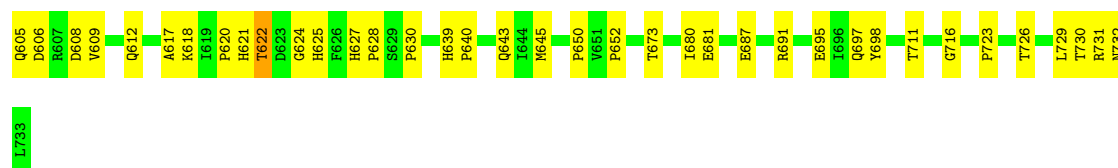
Chain I: 72% 27%



• Molecule 1: Capsid protein

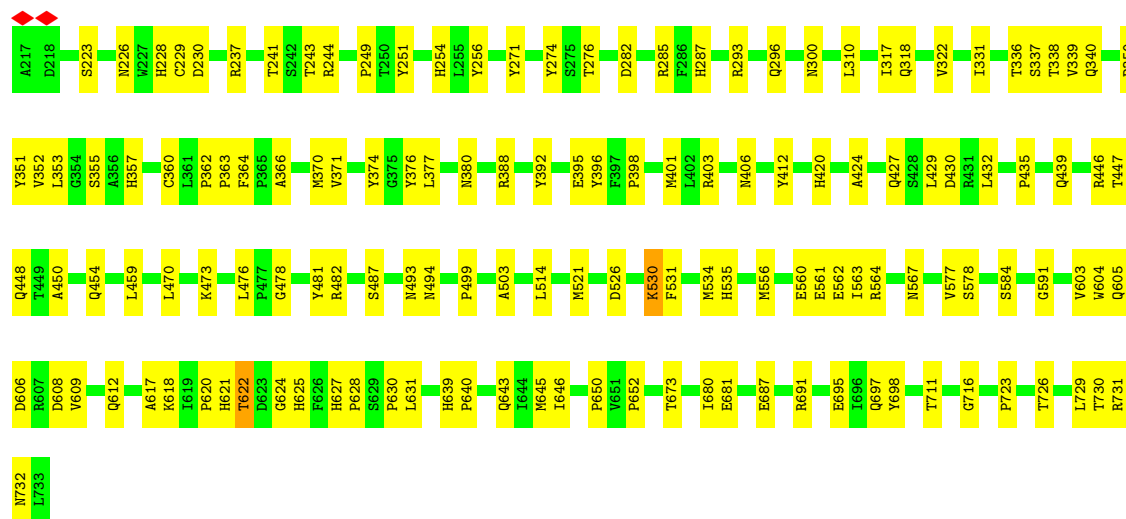
Chain J: 73% 27%





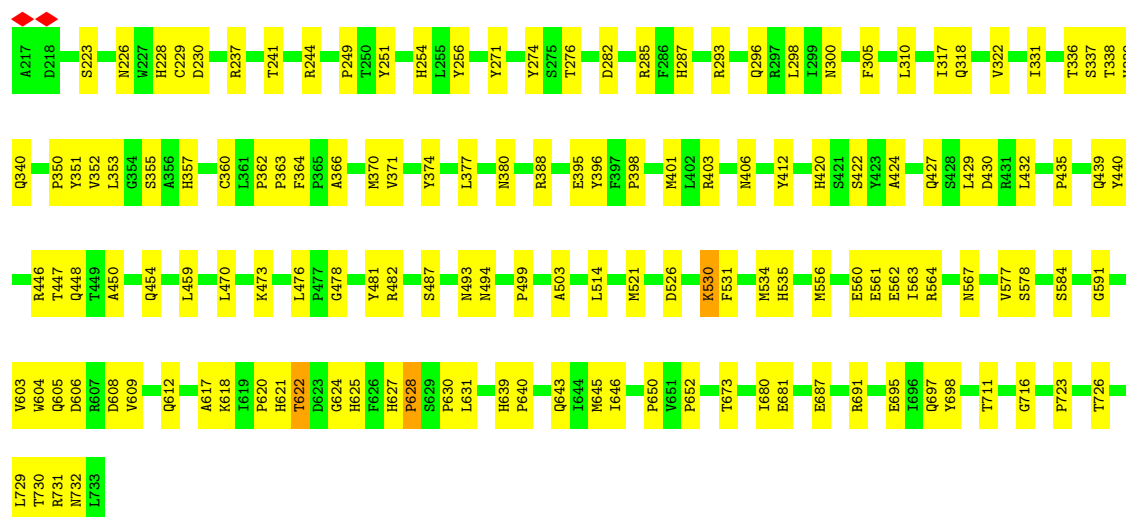
- Molecule 1: Capsid protein

Chain K: 73% 27%



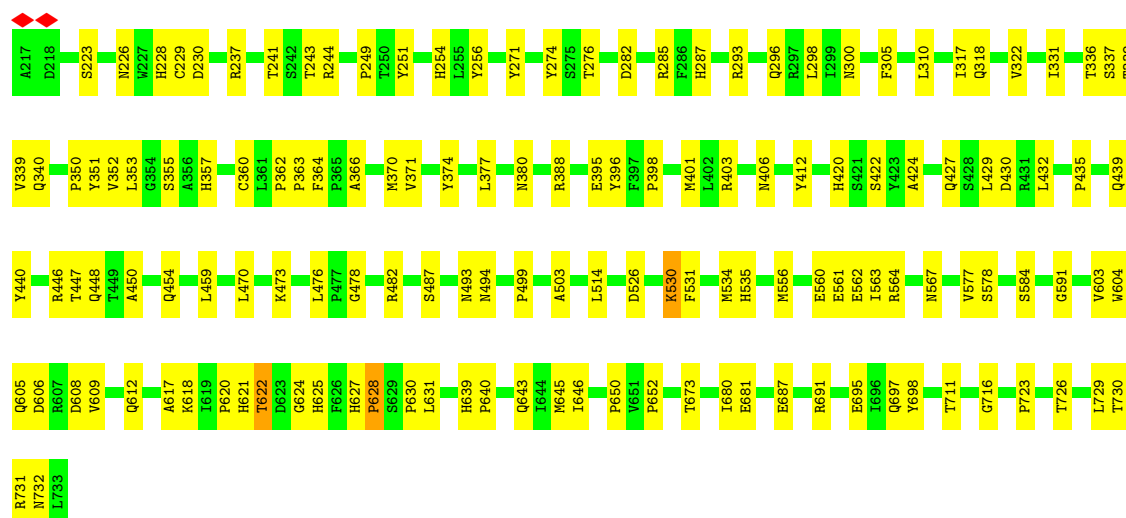
- Molecule 1: Capsid protein

Chain L: 72% 27%



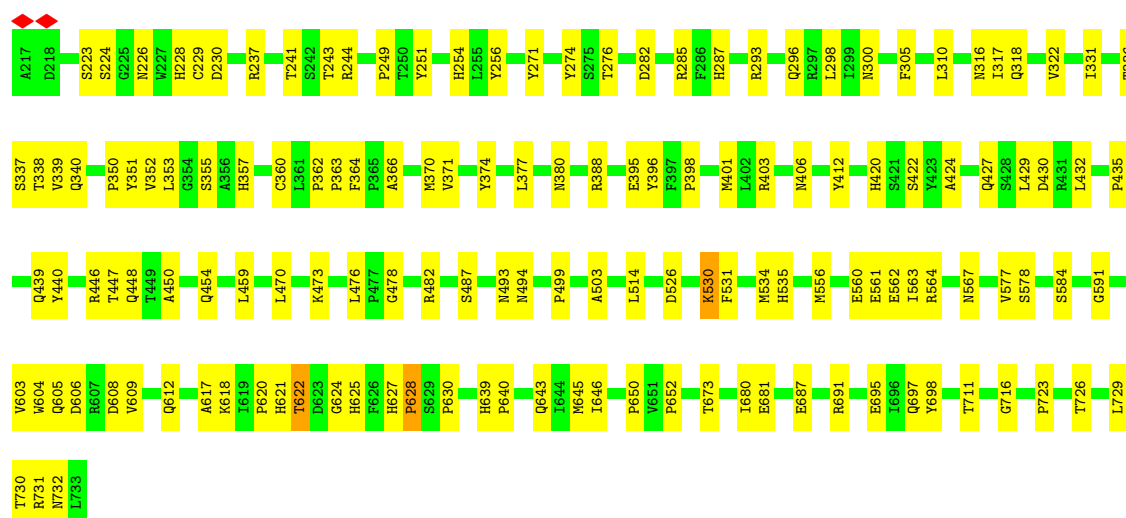
- Molecule 1: Capsid protein

Chain M: 73% 27%



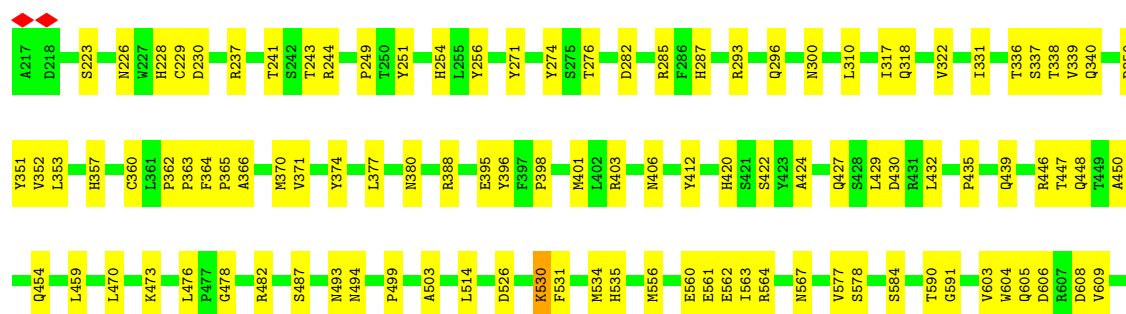
• Molecule 1: Capsid protein

Chain N: 72% 27%



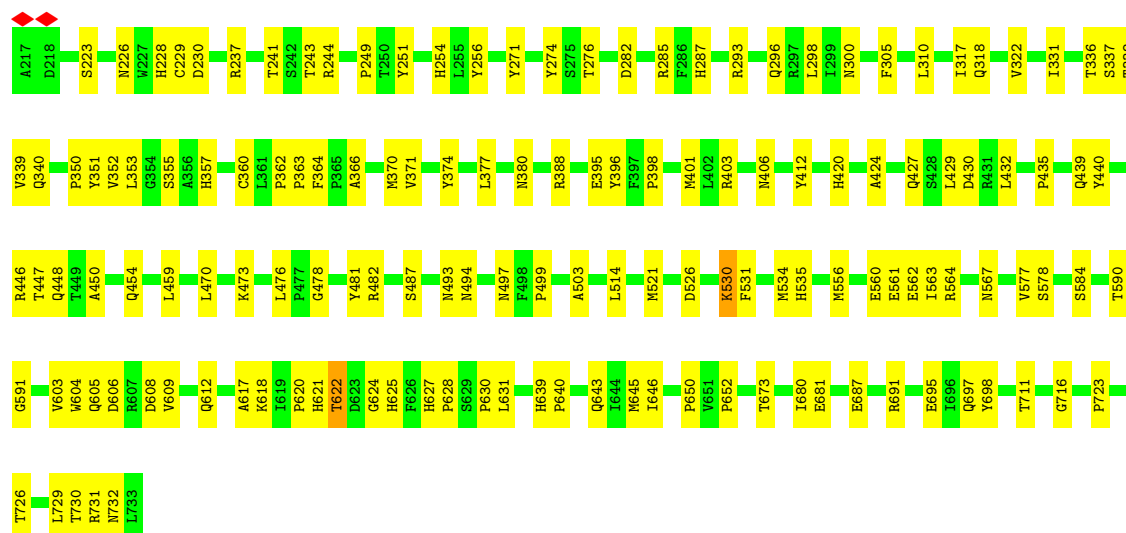
• Molecule 1: Capsid protein

Chain O: 73% 27%

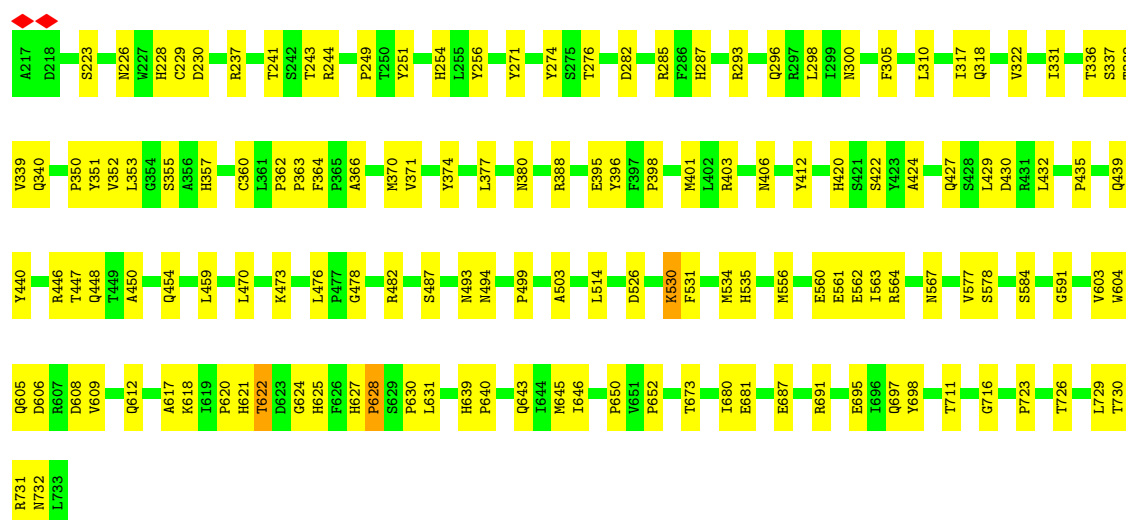




• Molecule 1: Capsid protein

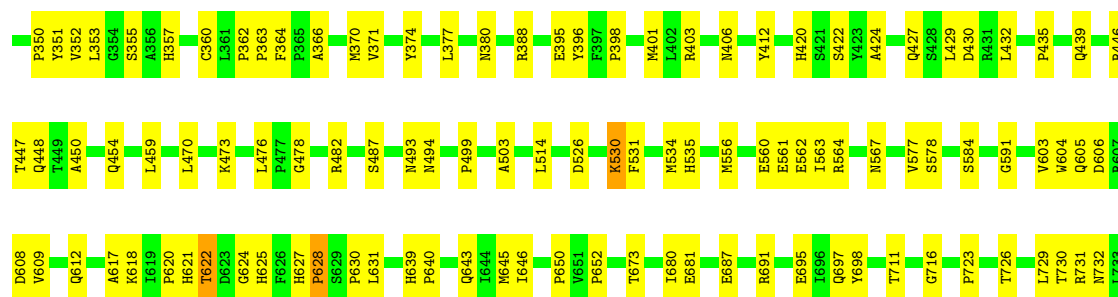


• Molecule 1: Capsid protein



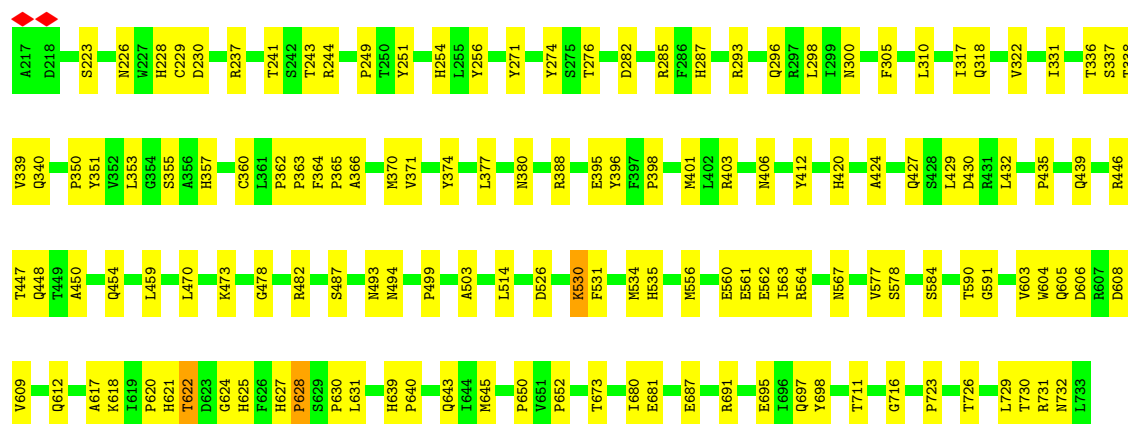
• Molecule 1: Capsid protein





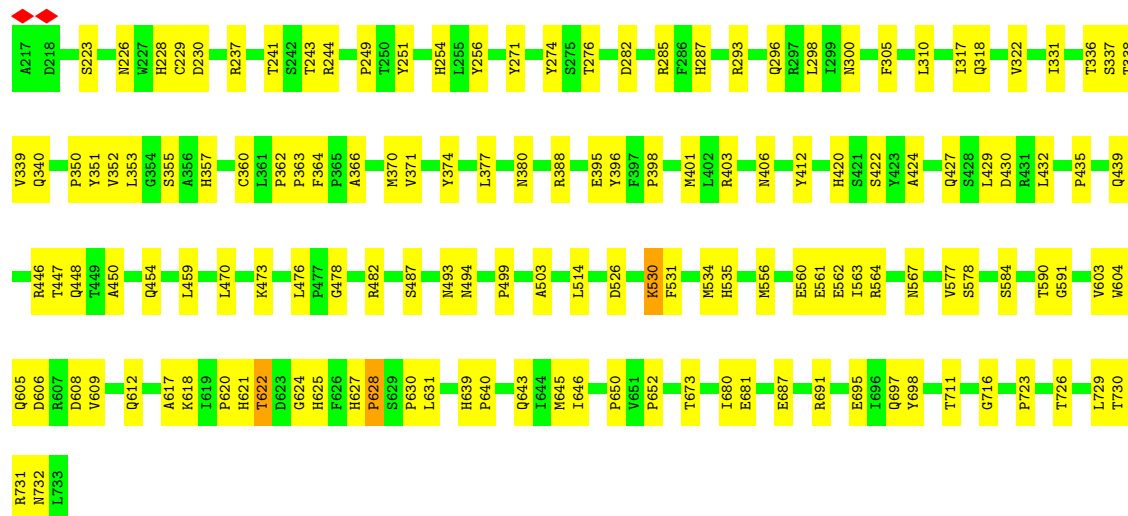
• Molecule 1: Capsid protein

Chain S: 73% 26% .



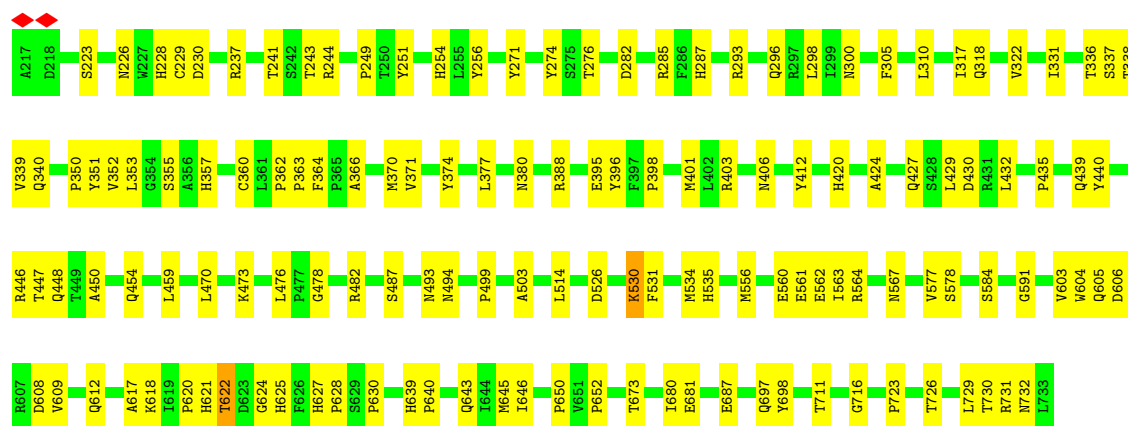
• Molecule 1: Capsid protein

Chain T: 73% 27% .



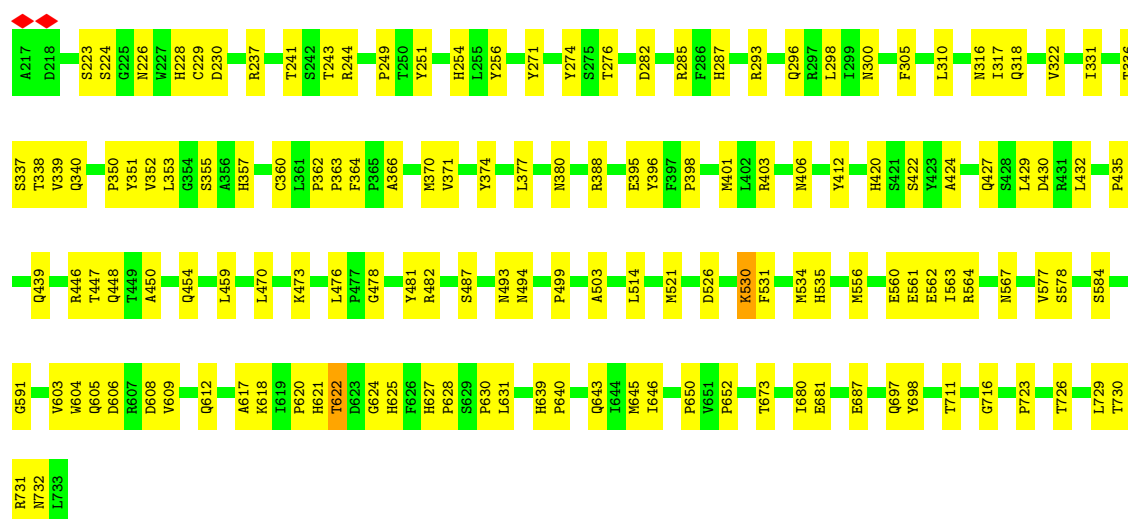
• Molecule 1: Capsid protein

Chain U: 73% 26%



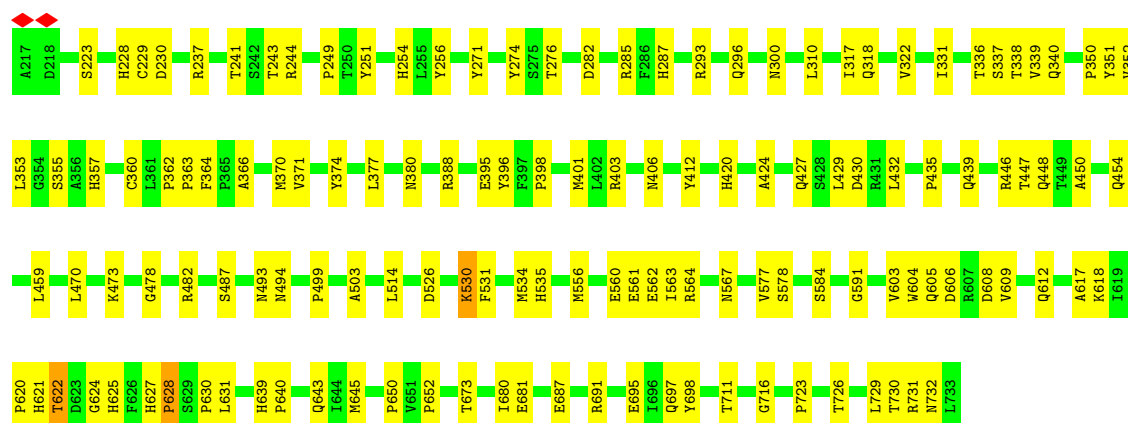
• Molecule 1: Capsid protein

Chain V: 72% 27%

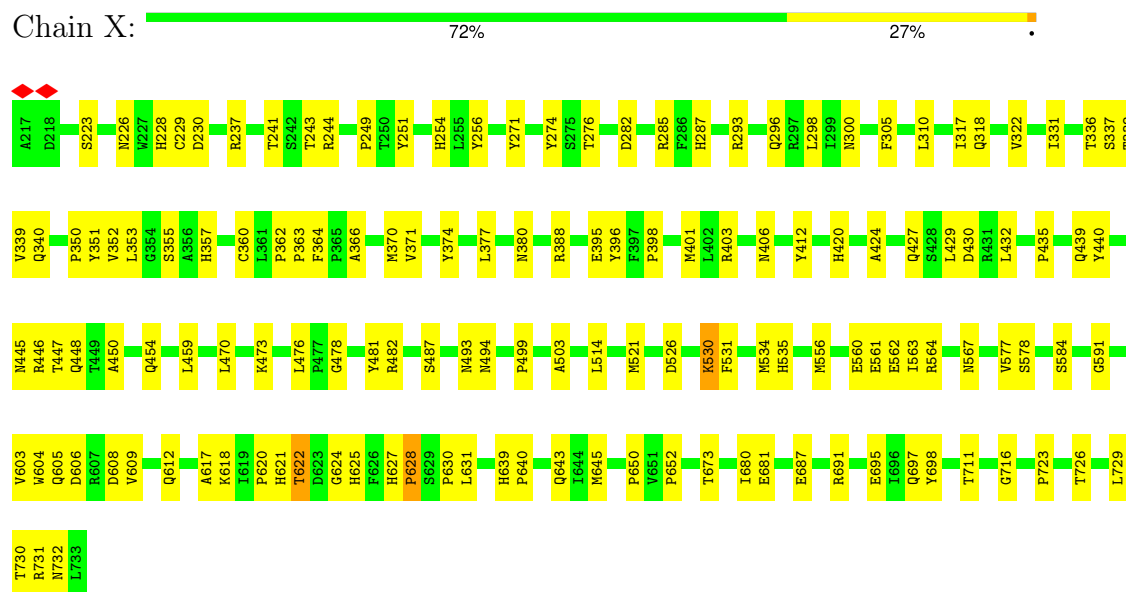


• Molecule 1: Capsid protein

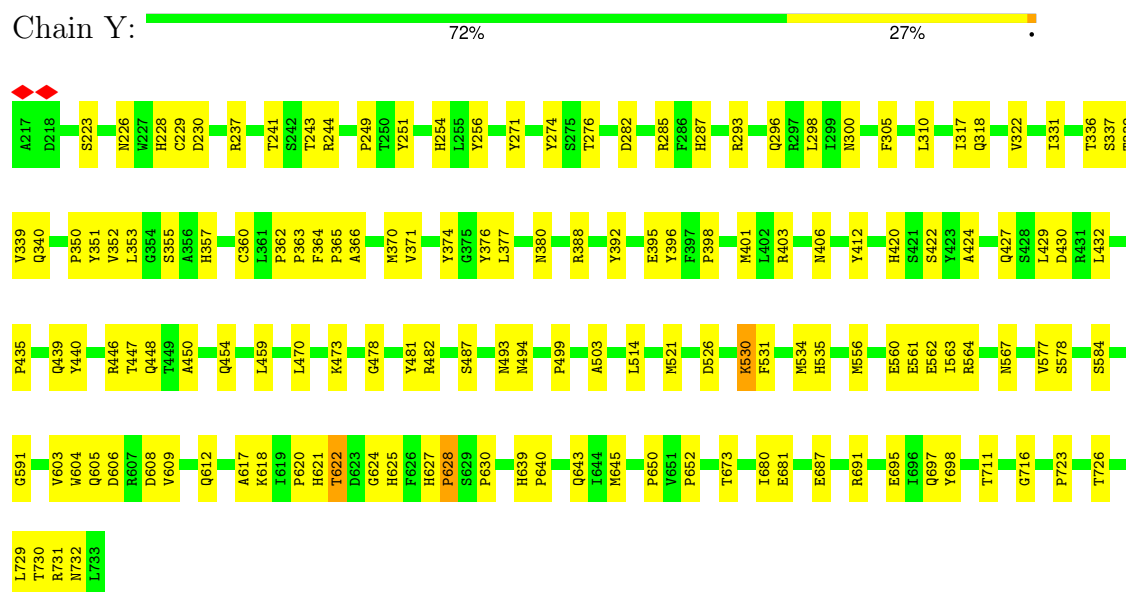
Chain W: 74% 26%



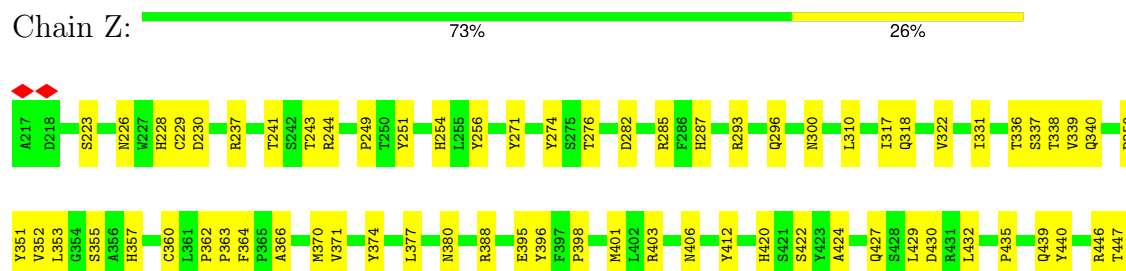
- Molecule 1: Capsid protein

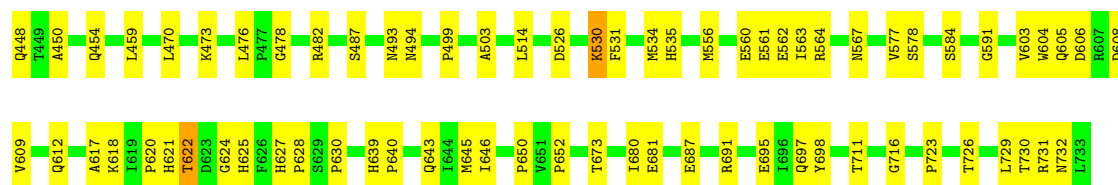


- Molecule 1: Capsid protein



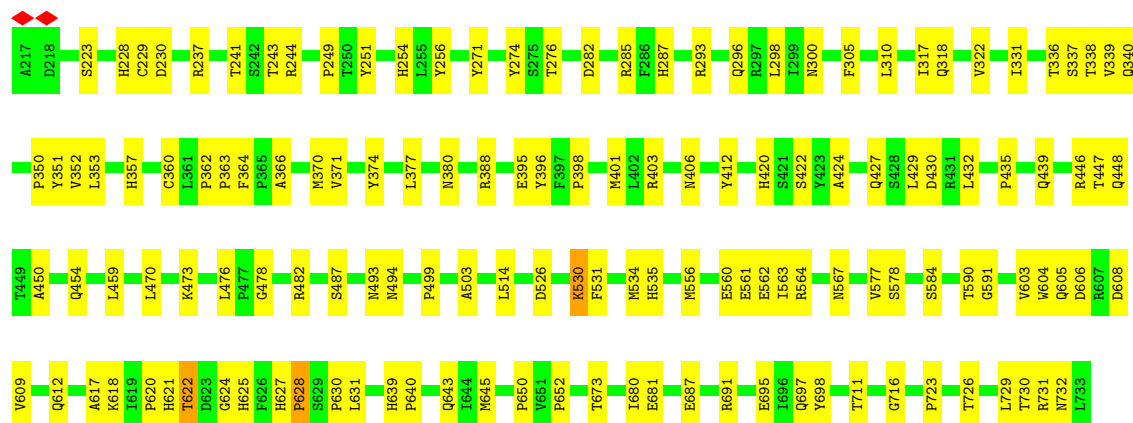
- Molecule 1: Capsid protein





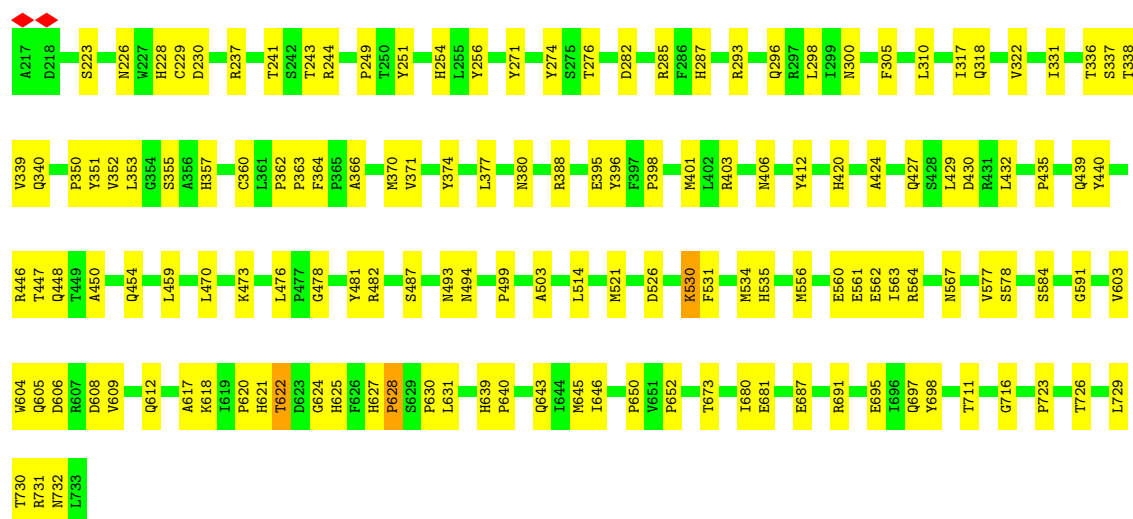
• Molecule 1: Capsid protein

Chain a: 73% 26%



• Molecule 1: Capsid protein

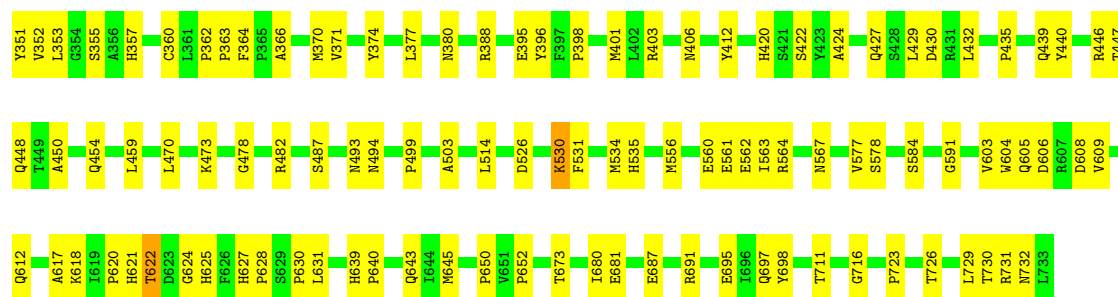
Chain b: 72% 27%



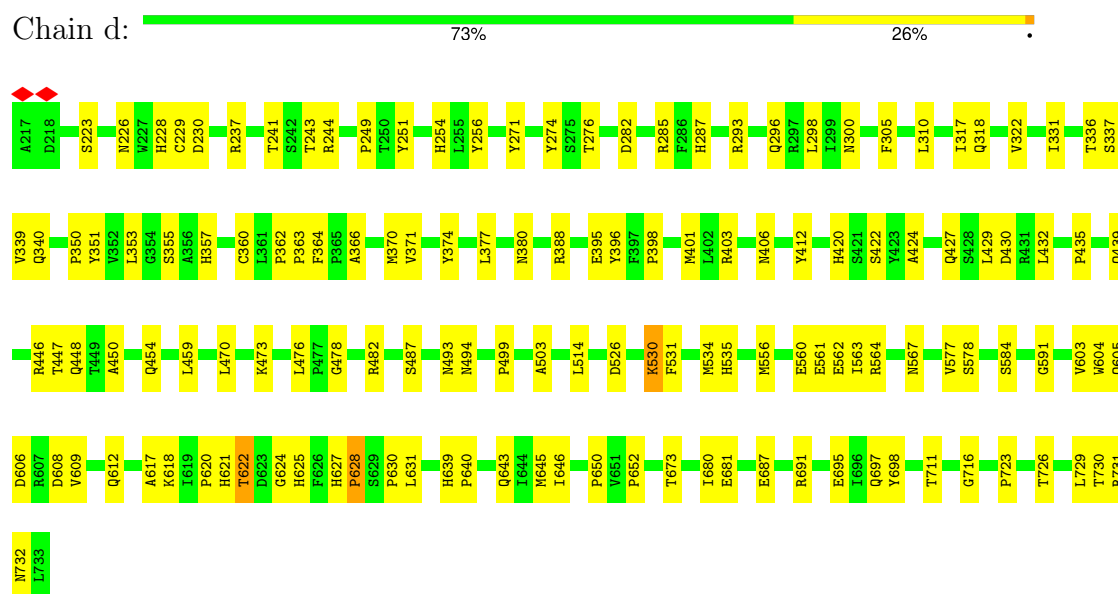
• Molecule 1: Capsid protein

Chain c: 73% 26%

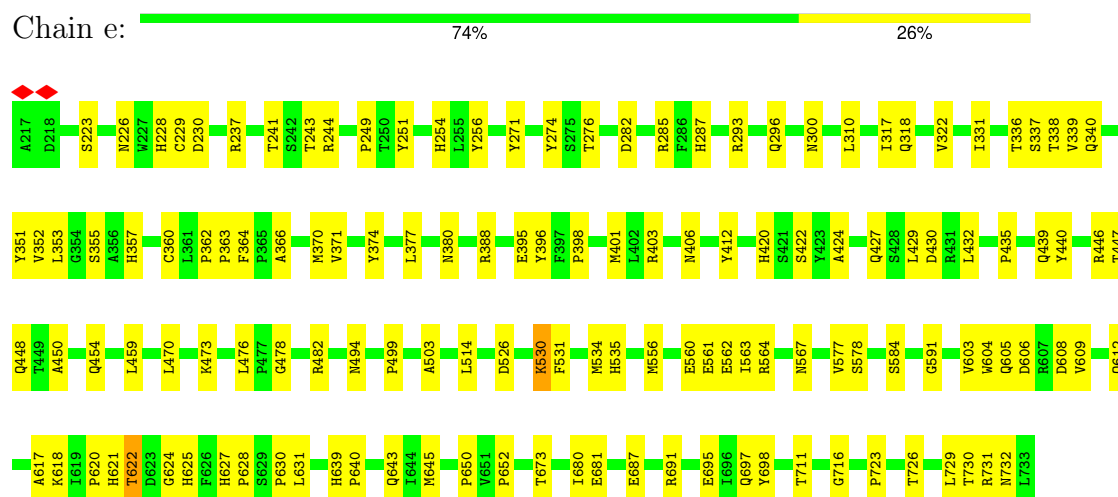




- Molecule 1: Capsid protein

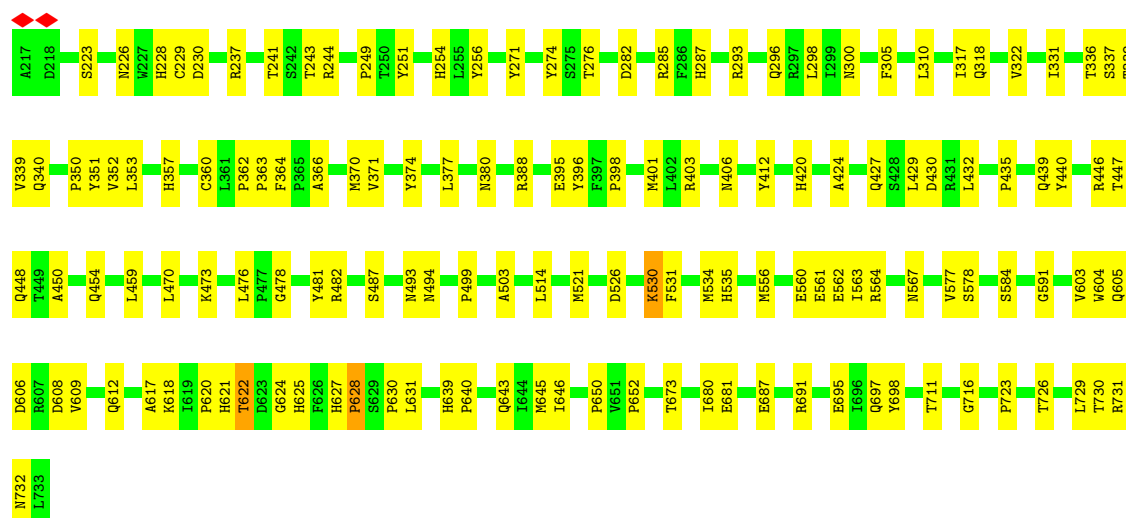


- Molecule 1: Capsid protein



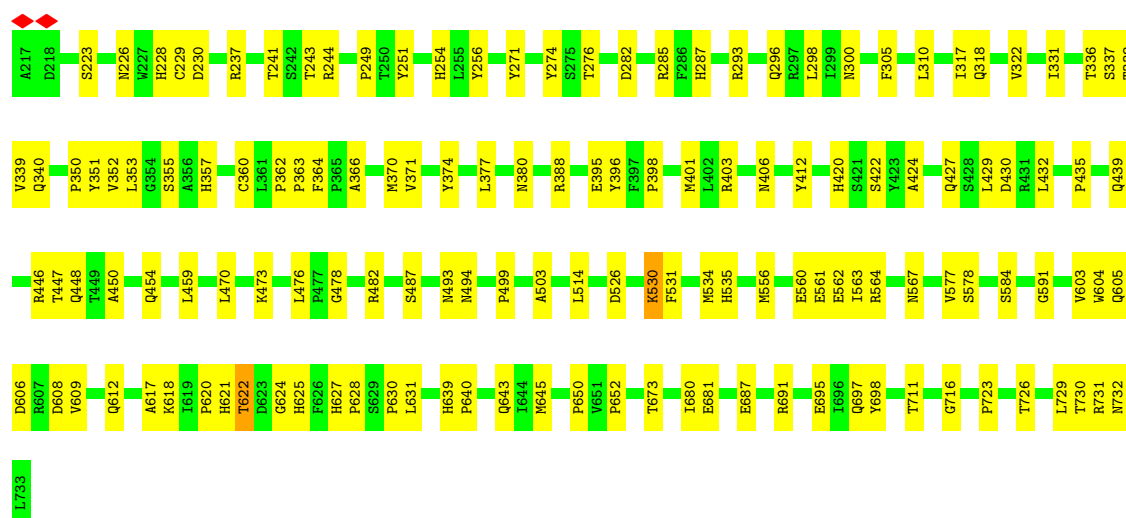
- Molecule 1: Capsid protein





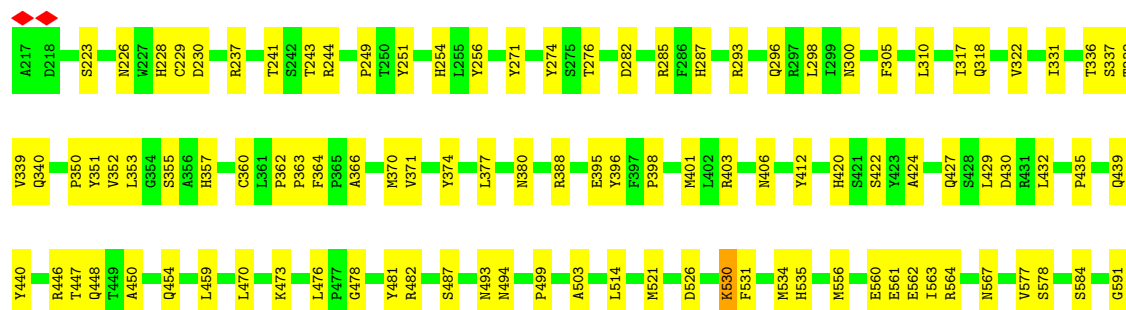
• Molecule 1: Capsid protein

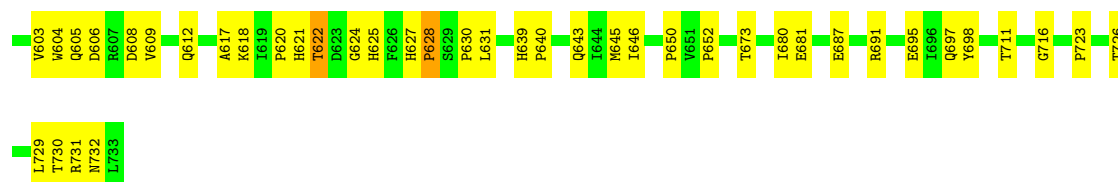
Chain g: 73% 27%



• Molecule 1: Capsid protein

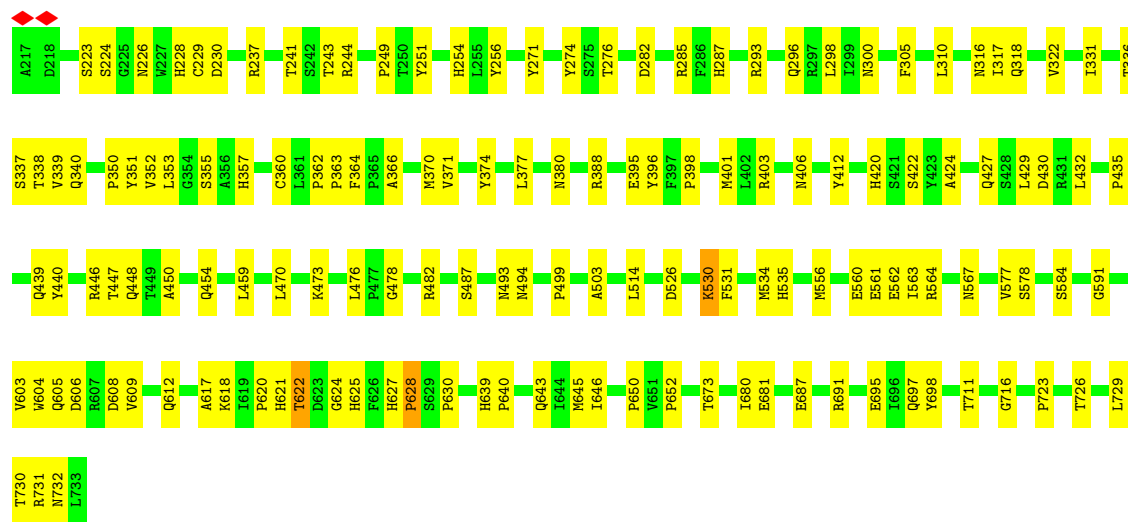
Chain h: 72% 27%





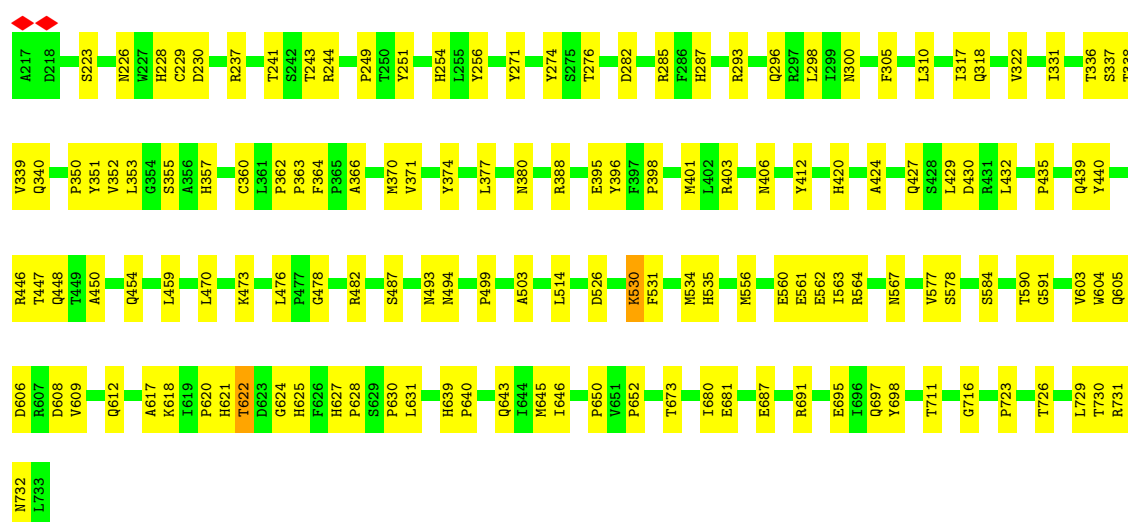
• Molecule 1: Capsid protein

Chain i: 72% 27%



• Molecule 1: Capsid protein

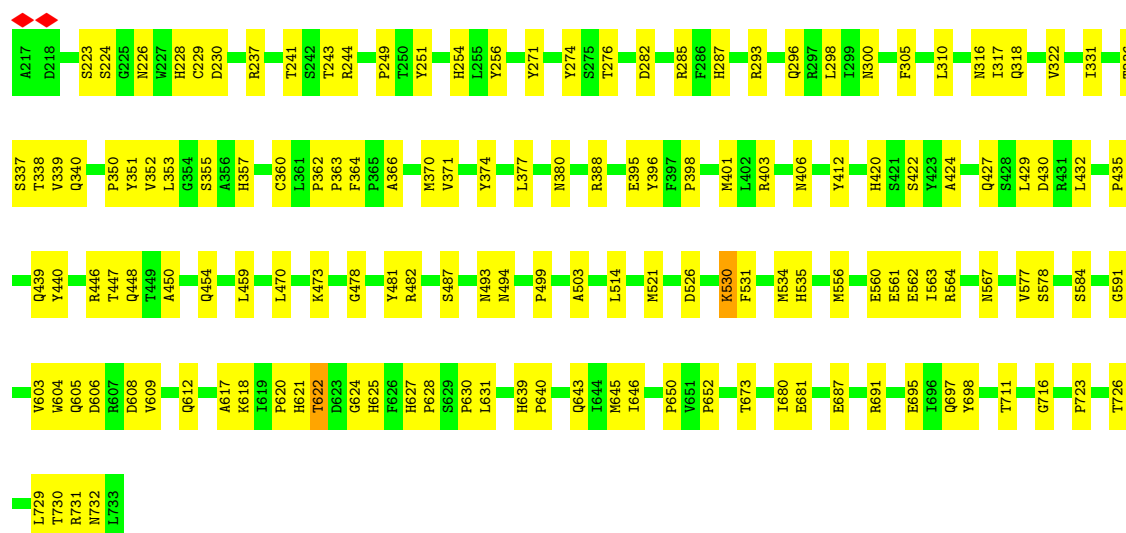
Chain j: 73% 27%



• Molecule 1: Capsid protein

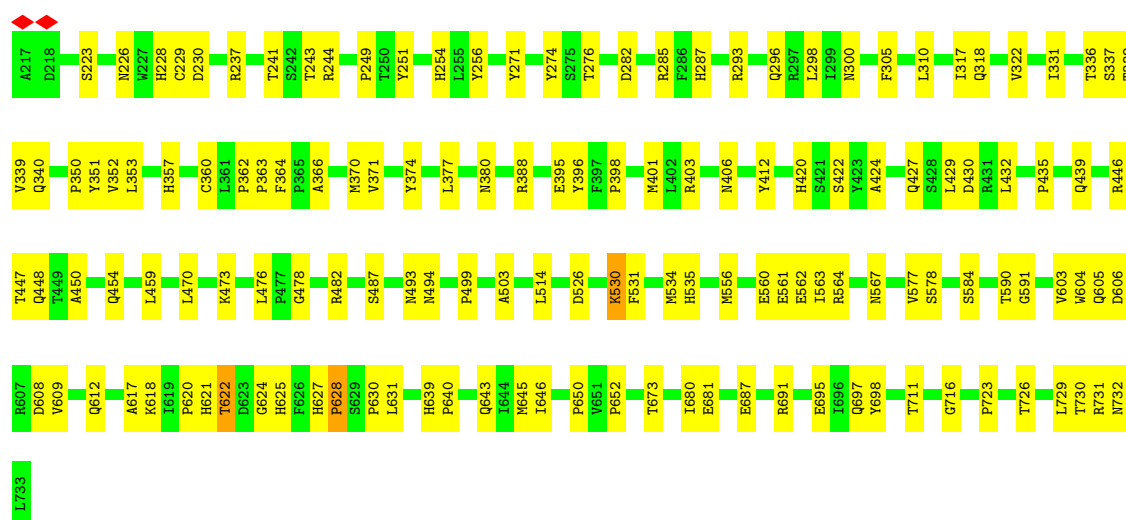
Chain k: 72% 28%





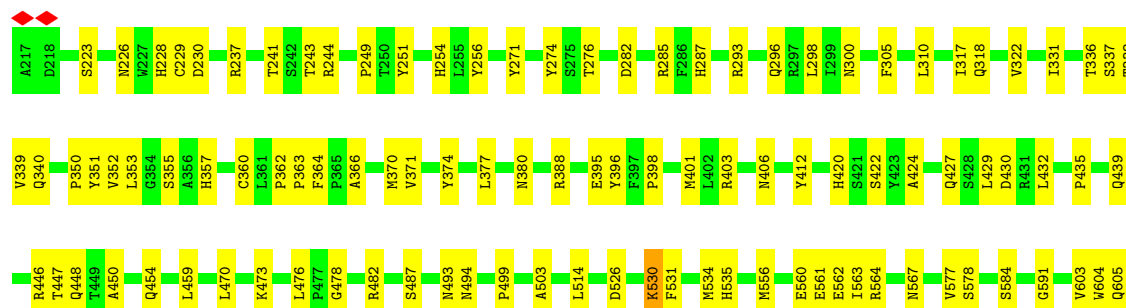
• Molecule 1: Capsid protein

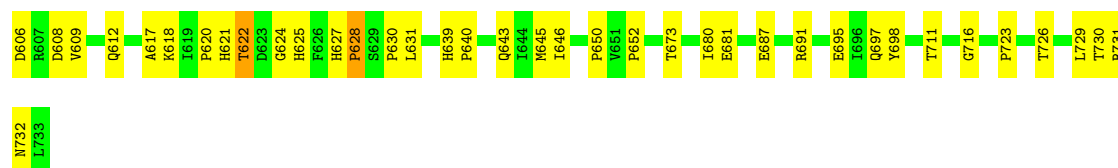
Chain l: 73% 27%



• Molecule 1: Capsid protein

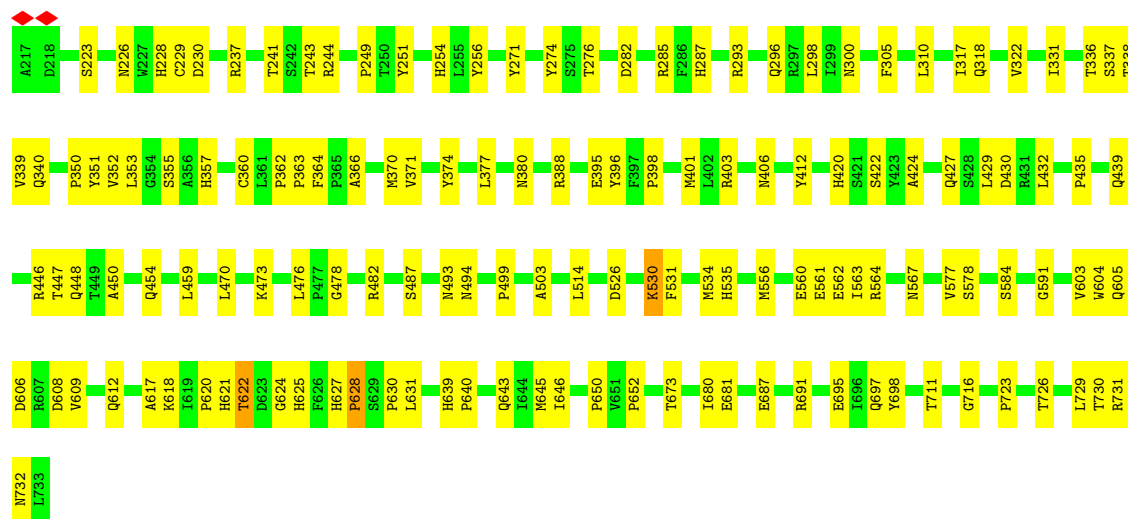
Chain m: 73% 27%





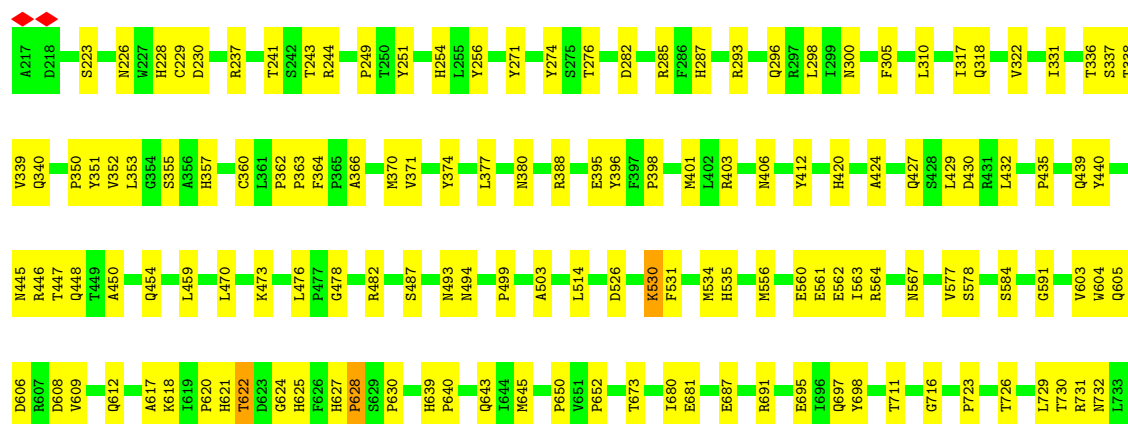
• Molecule 1: Capsid protein

Chain n: 73% 27%



• Molecule 1: Capsid protein

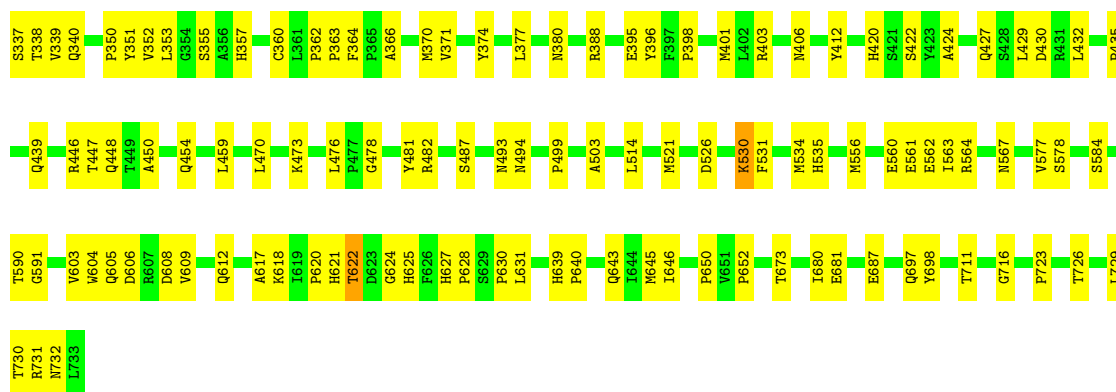
Chain o: 73% 26%



• Molecule 1: Capsid protein

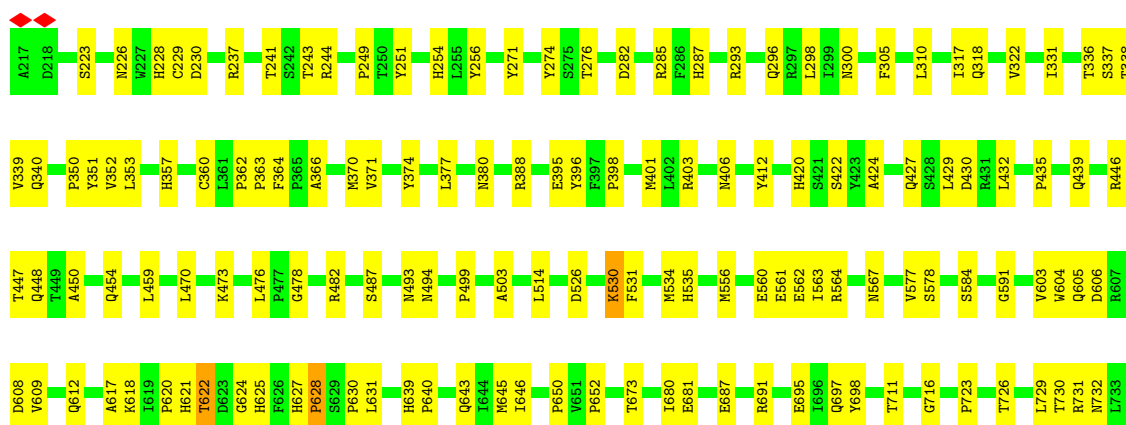
Chain p: 72% 27%





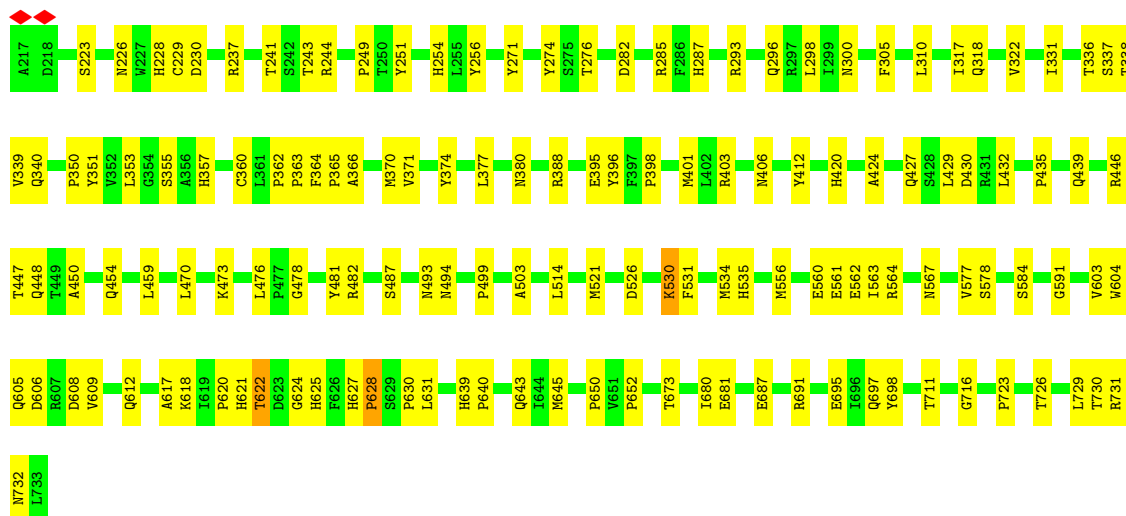
• Molecule 1: Capsid protein

Chain q: 73% 26%



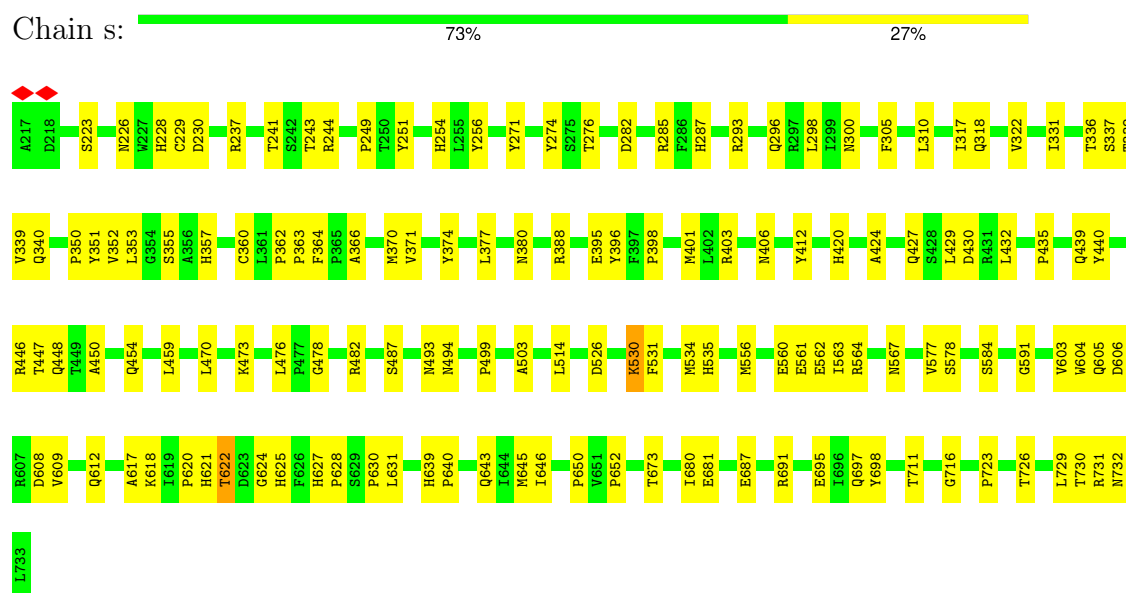
• Molecule 1: Capsid protein

Chain r: 73% 27%



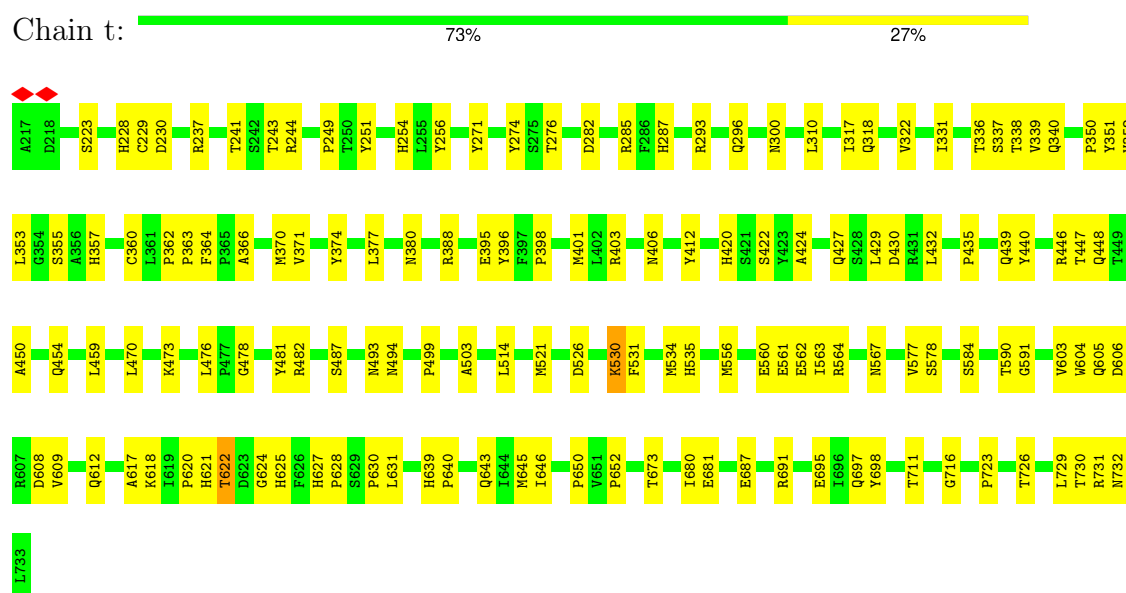
• Molecule 1: Capsid protein

Chain s:



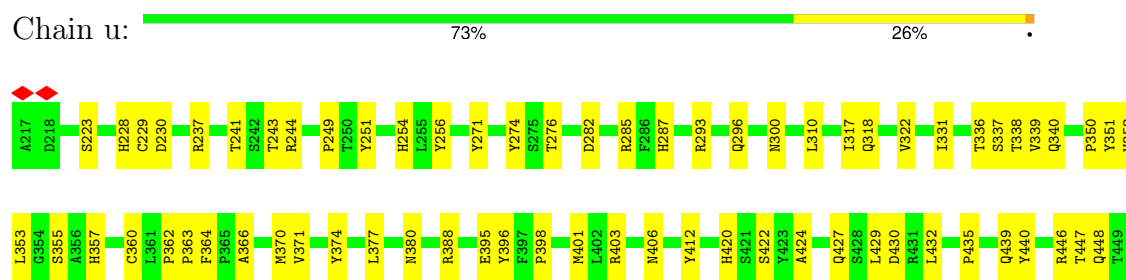
• Molecule 1: Capsid protein

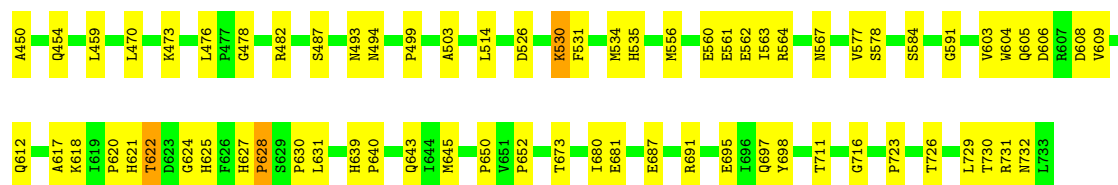
Chain t:



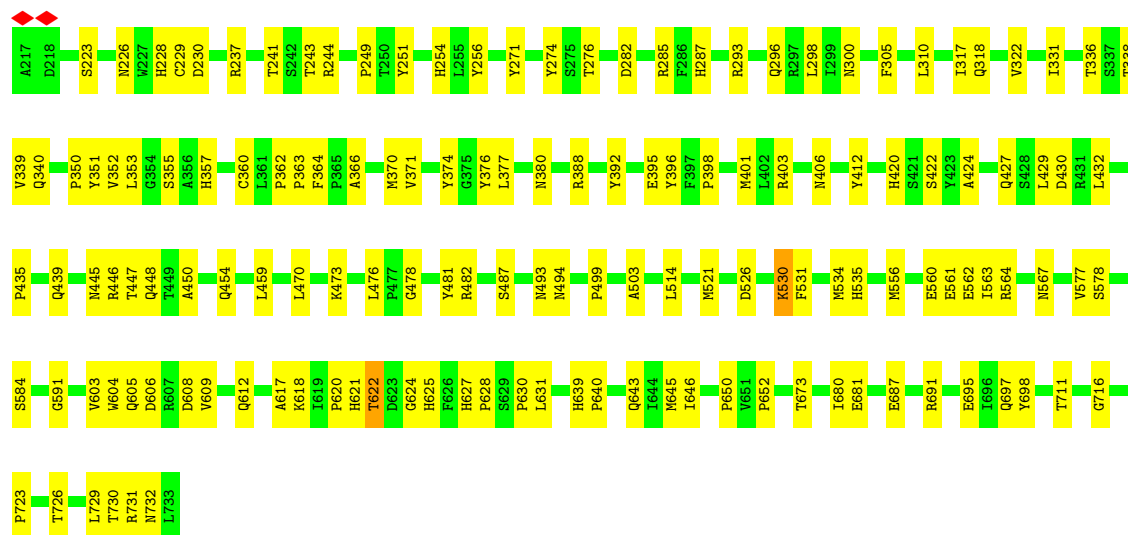
• Molecule 1: Capsid protein

Chain u:

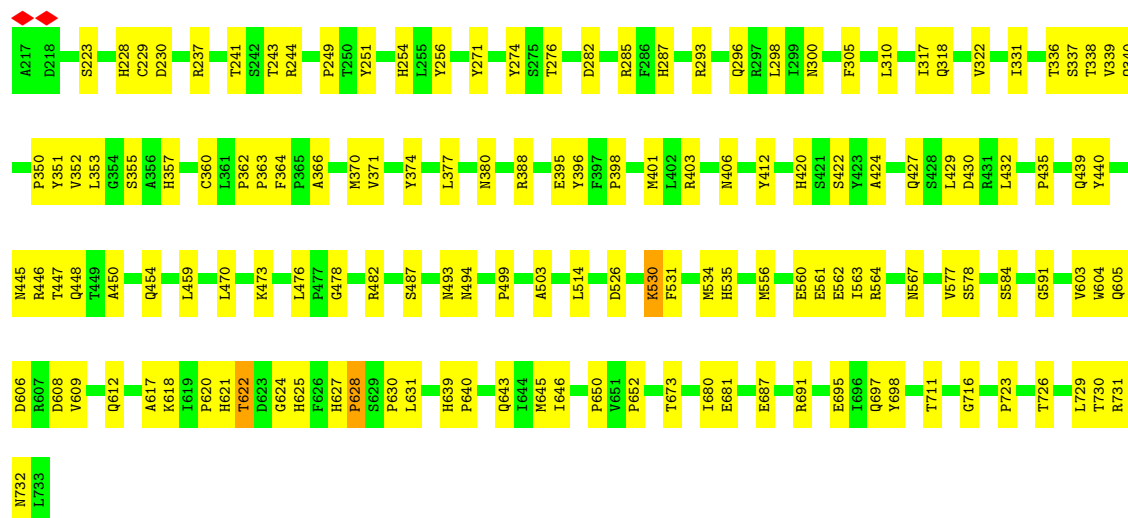




- Molecule 1: Capsid protein

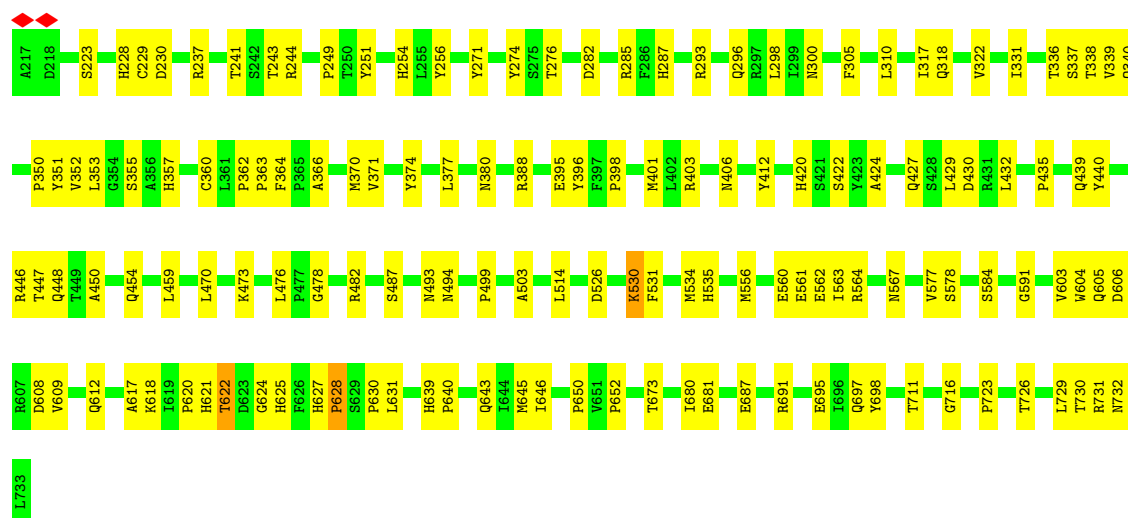


- Molecule 1: Capsid protein



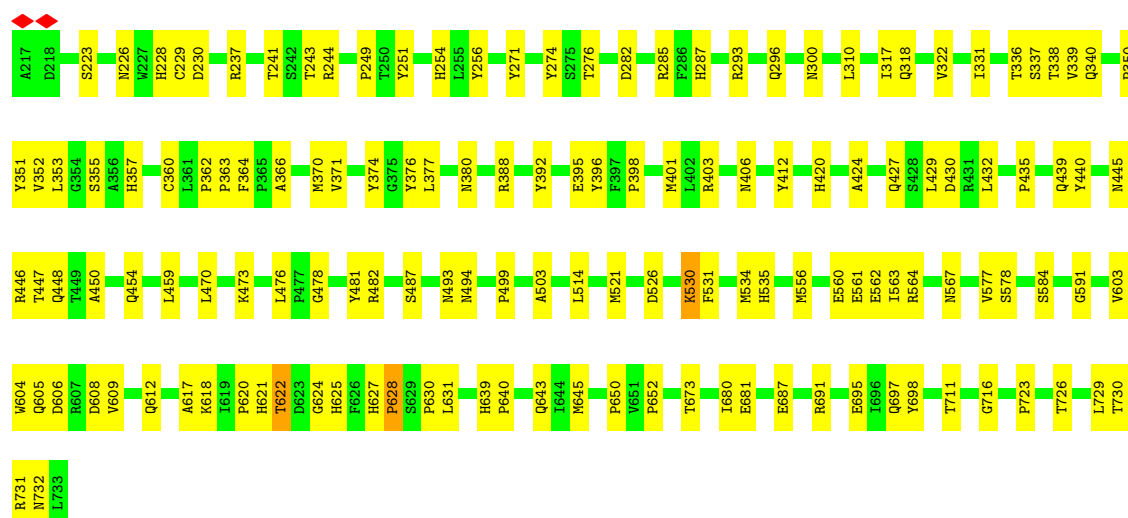
- Molecule 1: Capsid protein





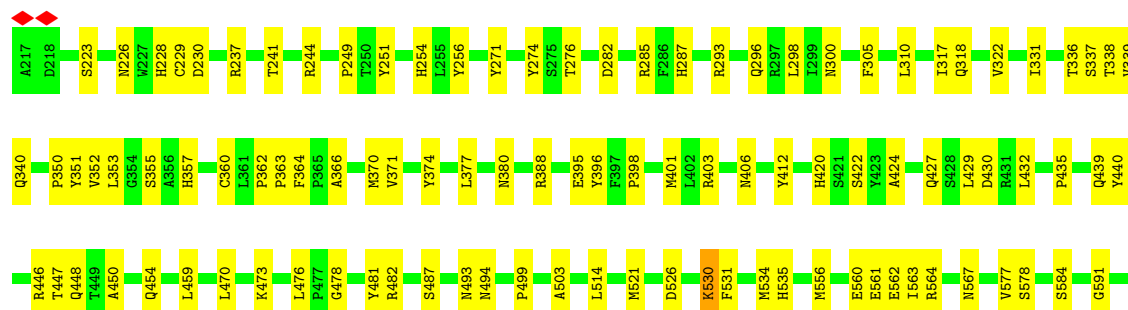
• Molecule 1: Capsid protein

Chain y: 72% 27%



• Molecule 1: Capsid protein

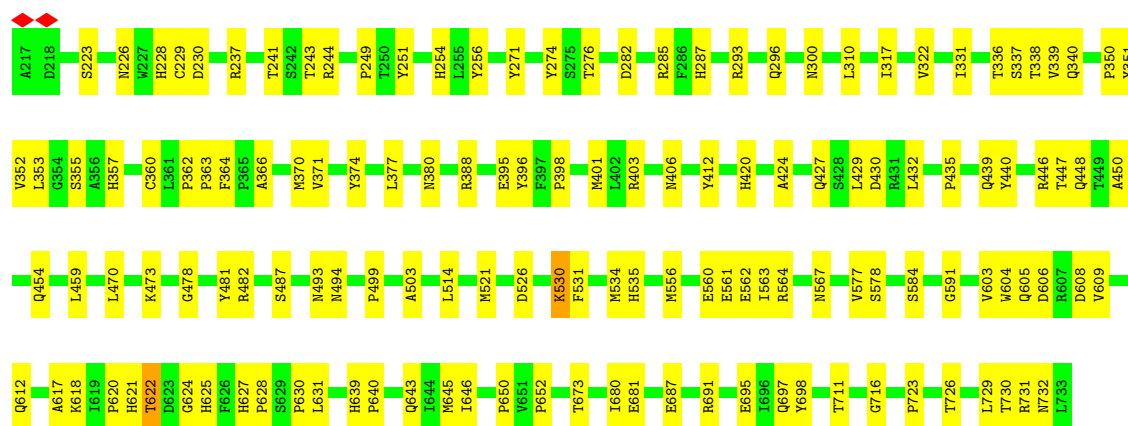
Chain z: 72% 27%





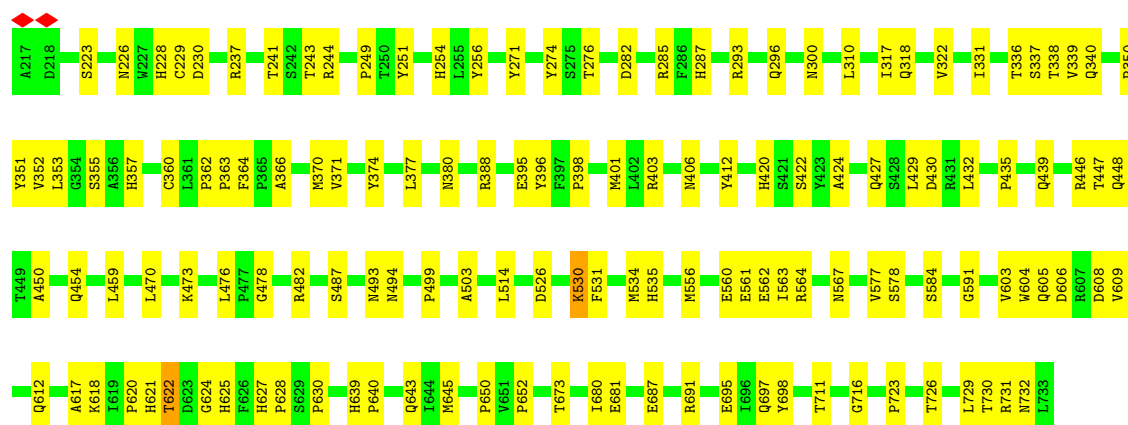
• Molecule 1: Capsid protein

Chain 1: 73% 26%



• Molecule 1: Capsid protein

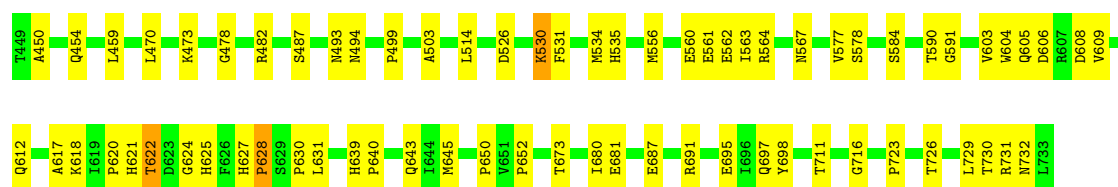
Chain 2: 74% 26%



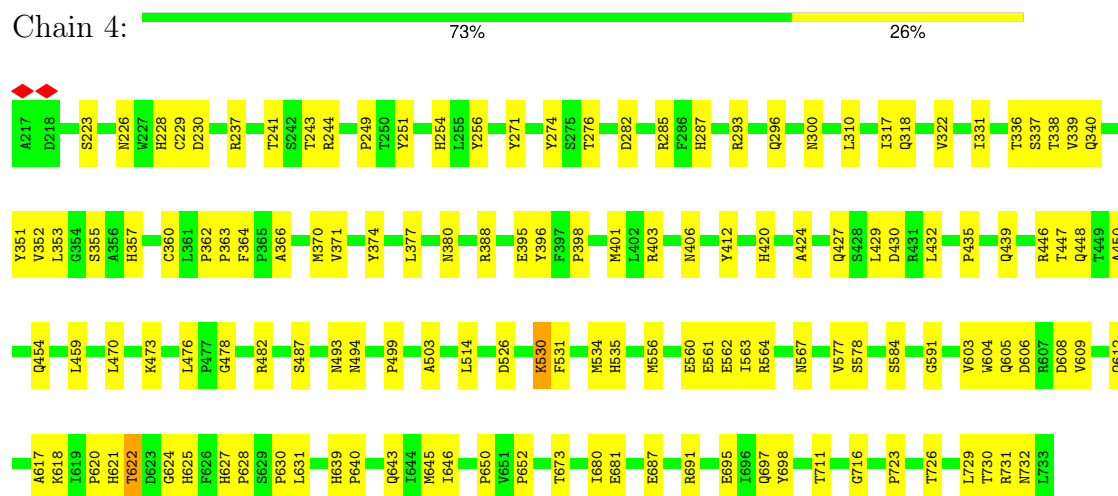
• Molecule 1: Capsid protein

Chain 3: 73% 26%

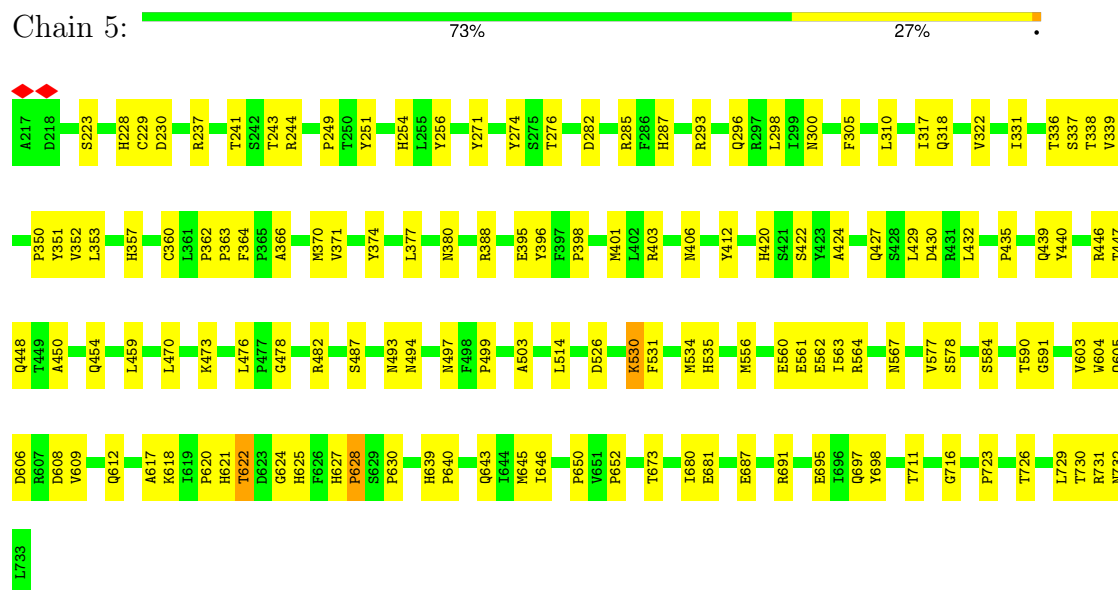




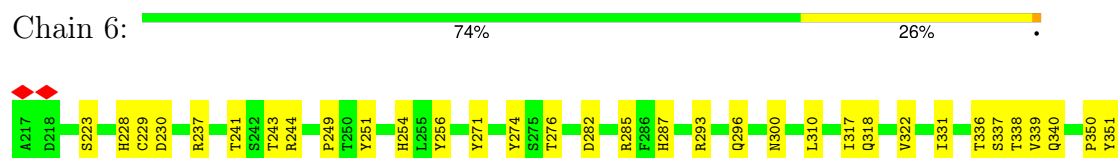
• Molecule 1: Capsid protein

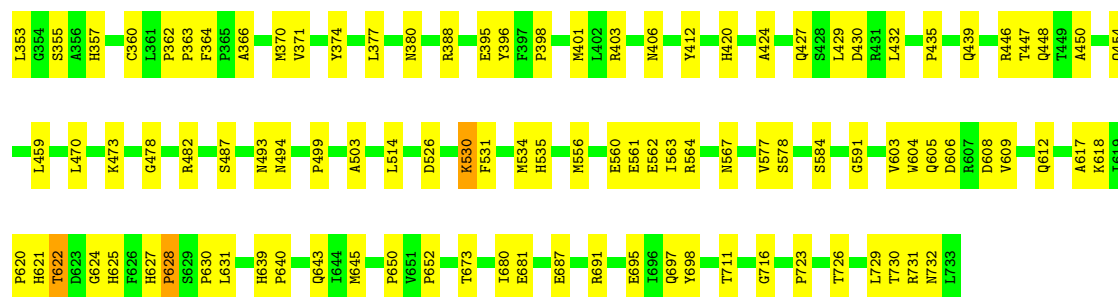


• Molecule 1: Capsid protein



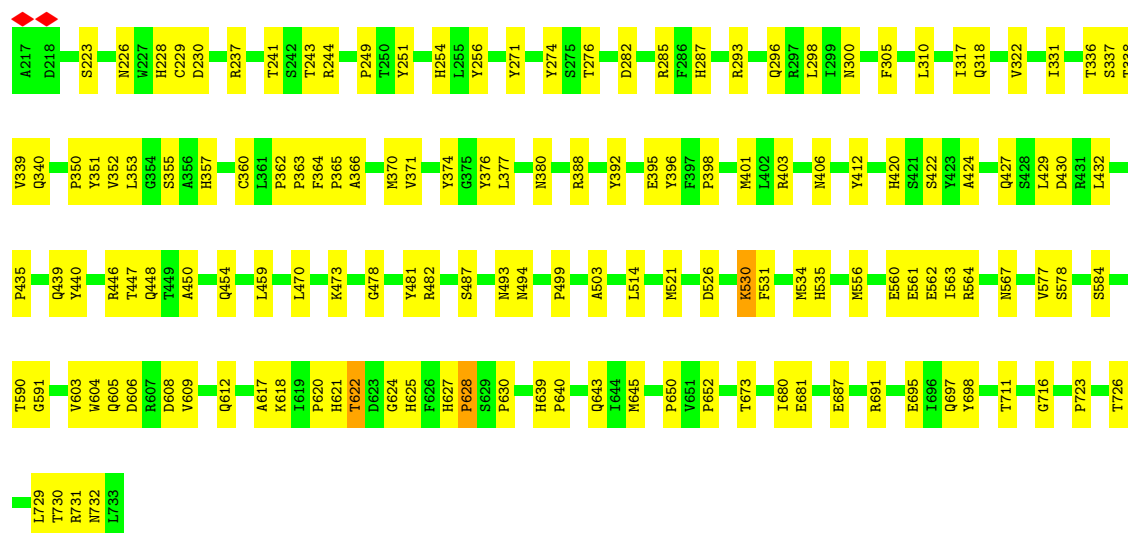
• Molecule 1: Capsid protein





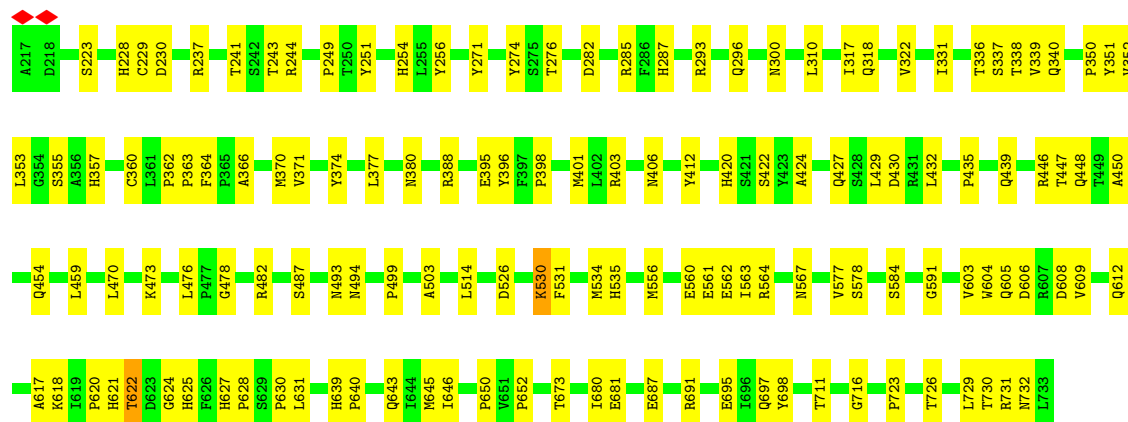
• Molecule 1: Capsid protein

Chain 7: 72% 27%



• Molecule 1: Capsid protein

Chain 8: 73% 26%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	6794	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	16.336	Depositor
Minimum map value	-10.493	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	453.6, 453.6, 453.6	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.08, 1.08, 1.08	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.43	0/4298	0.54	1/5862 (0.0%)
1	2	0.43	0/4298	0.54	1/5862 (0.0%)
1	3	0.43	0/4298	0.54	1/5862 (0.0%)
1	4	0.43	0/4298	0.54	1/5862 (0.0%)
1	5	0.43	0/4298	0.54	1/5862 (0.0%)
1	6	0.43	0/4298	0.54	1/5862 (0.0%)
1	7	0.43	0/4298	0.54	1/5862 (0.0%)
1	8	0.43	0/4298	0.54	1/5862 (0.0%)
1	A	0.43	0/4298	0.54	1/5862 (0.0%)
1	B	0.43	0/4298	0.54	1/5862 (0.0%)
1	C	0.43	0/4298	0.54	1/5862 (0.0%)
1	D	0.43	0/4298	0.54	1/5862 (0.0%)
1	E	0.43	0/4298	0.54	1/5862 (0.0%)
1	F	0.43	0/4298	0.54	1/5862 (0.0%)
1	G	0.43	0/4298	0.54	1/5862 (0.0%)
1	H	0.43	0/4298	0.54	1/5862 (0.0%)
1	I	0.43	0/4298	0.54	1/5862 (0.0%)
1	J	0.43	0/4298	0.54	1/5862 (0.0%)
1	K	0.43	0/4298	0.54	1/5862 (0.0%)
1	L	0.43	0/4298	0.54	1/5862 (0.0%)
1	M	0.43	0/4298	0.54	1/5862 (0.0%)
1	N	0.43	0/4298	0.54	1/5862 (0.0%)
1	O	0.43	0/4298	0.54	1/5862 (0.0%)
1	P	0.43	0/4298	0.54	1/5862 (0.0%)
1	Q	0.43	0/4298	0.54	1/5862 (0.0%)
1	R	0.43	0/4298	0.54	1/5862 (0.0%)
1	S	0.43	0/4298	0.54	1/5862 (0.0%)
1	T	0.43	0/4298	0.54	1/5862 (0.0%)
1	U	0.43	0/4298	0.54	1/5862 (0.0%)
1	V	0.43	0/4298	0.54	1/5862 (0.0%)
1	W	0.43	0/4298	0.54	1/5862 (0.0%)
1	X	0.43	0/4298	0.54	1/5862 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	0.43	0/4298	0.54	1/5862 (0.0%)
1	Z	0.43	0/4298	0.54	1/5862 (0.0%)
1	a	0.43	0/4298	0.54	1/5862 (0.0%)
1	b	0.43	0/4298	0.54	1/5862 (0.0%)
1	c	0.43	0/4298	0.54	1/5862 (0.0%)
1	d	0.43	0/4298	0.54	1/5862 (0.0%)
1	e	0.43	0/4298	0.54	1/5862 (0.0%)
1	f	0.43	0/4298	0.54	1/5862 (0.0%)
1	g	0.43	0/4298	0.54	1/5862 (0.0%)
1	h	0.43	0/4298	0.54	1/5862 (0.0%)
1	i	0.43	0/4298	0.54	1/5862 (0.0%)
1	j	0.43	0/4298	0.54	1/5862 (0.0%)
1	k	0.43	0/4298	0.54	1/5862 (0.0%)
1	l	0.43	0/4298	0.54	1/5862 (0.0%)
1	m	0.43	0/4298	0.54	1/5862 (0.0%)
1	n	0.43	0/4298	0.54	1/5862 (0.0%)
1	o	0.43	0/4298	0.54	1/5862 (0.0%)
1	p	0.43	0/4298	0.54	1/5862 (0.0%)
1	q	0.43	0/4298	0.54	1/5862 (0.0%)
1	r	0.43	0/4298	0.54	1/5862 (0.0%)
1	s	0.43	0/4298	0.54	1/5862 (0.0%)
1	t	0.43	0/4298	0.54	1/5862 (0.0%)
1	u	0.43	0/4298	0.54	1/5862 (0.0%)
1	v	0.43	0/4298	0.54	1/5862 (0.0%)
1	w	0.43	0/4298	0.54	1/5862 (0.0%)
1	x	0.43	0/4298	0.54	1/5862 (0.0%)
1	y	0.43	0/4298	0.54	1/5862 (0.0%)
1	z	0.43	0/4298	0.54	1/5862 (0.0%)
All	All	0.43	0/257880	0.54	60/351720 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	2
1	2	0	2
1	3	0	2
1	4	0	2
1	5	0	2
1	6	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	7	0	2
1	8	0	2
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
1	F	0	2
1	G	0	2
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
1	L	0	2
1	M	0	2
1	N	0	2
1	O	0	2
1	P	0	2
1	Q	0	2
1	R	0	2
1	S	0	2
1	T	0	2
1	U	0	2
1	V	0	2
1	W	0	2
1	X	0	2
1	Y	0	2
1	Z	0	2
1	a	0	2
1	b	0	2
1	c	0	2
1	d	0	2
1	e	0	2
1	f	0	2
1	g	0	2
1	h	0	2
1	i	0	2
1	j	0	2
1	k	0	2
1	l	0	2
1	m	0	2
1	n	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	o	0	2
1	p	0	2
1	q	0	2
1	r	0	2
1	s	0	2
1	t	0	2
1	u	0	2
1	v	0	2
1	w	0	2
1	x	0	2
1	y	0	2
1	z	0	2
All	All	0	120

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	530	LYS	N-CA-C	5.29	117.05	111.28
1	Q	530	LYS	N-CA-C	5.29	117.05	111.28
1	i	530	LYS	N-CA-C	5.29	117.04	111.28
1	X	530	LYS	N-CA-C	5.29	117.04	111.28
1	S	530	LYS	N-CA-C	5.29	117.04	111.28
1	E	530	LYS	N-CA-C	5.28	117.04	111.28
1	K	530	LYS	N-CA-C	5.28	117.04	111.28
1	2	530	LYS	N-CA-C	5.28	117.03	111.28
1	H	530	LYS	N-CA-C	5.28	117.03	111.28
1	b	530	LYS	N-CA-C	5.28	117.03	111.28
1	c	530	LYS	N-CA-C	5.28	117.03	111.28
1	w	530	LYS	N-CA-C	5.28	117.03	111.28
1	P	530	LYS	N-CA-C	5.27	117.03	111.28
1	I	530	LYS	N-CA-C	5.27	117.02	111.28
1	L	530	LYS	N-CA-C	5.26	117.02	111.28
1	N	530	LYS	N-CA-C	5.26	117.01	111.28
1	R	530	LYS	N-CA-C	5.26	117.02	111.28
1	U	530	LYS	N-CA-C	5.26	117.02	111.28
1	Y	530	LYS	N-CA-C	5.26	117.01	111.28
1	j	530	LYS	N-CA-C	5.26	117.01	111.28
1	s	530	LYS	N-CA-C	5.26	117.02	111.28
1	z	530	LYS	N-CA-C	5.26	117.02	111.28
1	l	530	LYS	N-CA-C	5.26	117.02	111.28
1	p	530	LYS	N-CA-C	5.26	117.01	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	530	LYS	N-CA-C	5.26	117.01	111.28
1	M	530	LYS	N-CA-C	5.26	117.01	111.28
1	q	530	LYS	N-CA-C	5.26	117.01	111.28
1	5	530	LYS	N-CA-C	5.26	117.01	111.28
1	A	530	LYS	N-CA-C	5.25	117.01	111.28
1	F	530	LYS	N-CA-C	5.25	117.01	111.28
1	O	530	LYS	N-CA-C	5.25	117.01	111.28
1	d	530	LYS	N-CA-C	5.25	117.01	111.28
1	f	530	LYS	N-CA-C	5.25	117.01	111.28
1	l	530	LYS	N-CA-C	5.25	117.01	111.28
1	n	530	LYS	N-CA-C	5.25	117.01	111.28
1	t	530	LYS	N-CA-C	5.25	117.01	111.28
1	v	530	LYS	N-CA-C	5.25	117.01	111.28
1	y	530	LYS	N-CA-C	5.25	117.01	111.28
1	B	530	LYS	N-CA-C	5.25	117.00	111.28
1	V	530	LYS	N-CA-C	5.25	117.00	111.28
1	m	530	LYS	N-CA-C	5.25	117.00	111.28
1	4	530	LYS	N-CA-C	5.25	117.00	111.28
1	u	530	LYS	N-CA-C	5.25	117.00	111.28
1	a	530	LYS	N-CA-C	5.25	117.00	111.28
1	T	530	LYS	N-CA-C	5.24	117.00	111.28
1	o	530	LYS	N-CA-C	5.24	116.99	111.28
1	x	530	LYS	N-CA-C	5.24	116.99	111.28
1	G	530	LYS	N-CA-C	5.23	116.98	111.28
1	h	530	LYS	N-CA-C	5.23	116.98	111.28
1	6	530	LYS	N-CA-C	5.23	116.98	111.28
1	8	530	LYS	N-CA-C	5.23	116.98	111.28
1	k	530	LYS	N-CA-C	5.23	116.98	111.28
1	D	530	LYS	N-CA-C	5.23	116.98	111.28
1	Z	530	LYS	N-CA-C	5.23	116.98	111.28
1	r	530	LYS	N-CA-C	5.23	116.98	111.28
1	3	530	LYS	N-CA-C	5.23	116.98	111.28
1	e	530	LYS	N-CA-C	5.22	116.97	111.28
1	C	530	LYS	N-CA-C	5.21	116.96	111.28
1	W	530	LYS	N-CA-C	5.20	116.95	111.28
1	g	530	LYS	N-CA-C	5.20	116.95	111.28

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	624	GLY	Mainchain

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Mol	Chain	Res	Type	Group
1	2	624	GLY	Mainchain
1	3	624	GLY	Mainchain
1	4	624	GLY	Mainchain
1	5	624	GLY	Mainchain
1	6	624	GLY	Mainchain
1	7	624	GLY	Mainchain
1	8	624	GLY	Mainchain
1	A	624	GLY	Mainchain
1	B	624	GLY	Mainchain
1	C	624	GLY	Mainchain
1	D	624	GLY	Mainchain
1	E	624	GLY	Mainchain
1	F	624	GLY	Mainchain
1	G	624	GLY	Mainchain
1	H	624	GLY	Mainchain
1	I	624	GLY	Mainchain
1	J	624	GLY	Mainchain
1	K	624	GLY	Mainchain
1	L	624	GLY	Mainchain
1	M	624	GLY	Mainchain
1	N	624	GLY	Mainchain
1	O	624	GLY	Mainchain
1	P	624	GLY	Mainchain
1	Q	624	GLY	Mainchain
1	R	624	GLY	Mainchain
1	S	624	GLY	Mainchain
1	T	624	GLY	Mainchain
1	U	624	GLY	Mainchain
1	V	624	GLY	Mainchain
1	W	624	GLY	Mainchain
1	X	624	GLY	Mainchain
1	Y	624	GLY	Mainchain
1	Z	624	GLY	Mainchain
1	a	624	GLY	Mainchain
1	b	624	GLY	Mainchain
1	c	624	GLY	Mainchain
1	d	624	GLY	Mainchain
1	e	624	GLY	Mainchain
1	f	624	GLY	Mainchain
1	g	624	GLY	Mainchain
1	h	624	GLY	Mainchain
1	i	624	GLY	Mainchain

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Mol	Chain	Res	Type	Group
1	j	624	GLY	Mainchain
1	k	624	GLY	Mainchain
1	l	624	GLY	Mainchain
1	m	624	GLY	Mainchain
1	n	624	GLY	Mainchain
1	o	624	GLY	Mainchain
1	p	624	GLY	Mainchain
1	q	624	GLY	Mainchain
1	r	624	GLY	Mainchain
1	s	624	GLY	Mainchain
1	t	624	GLY	Mainchain
1	u	624	GLY	Mainchain
1	v	624	GLY	Mainchain
1	w	624	GLY	Mainchain
1	x	624	GLY	Mainchain
1	y	624	GLY	Mainchain
1	z	624	GLY	Mainchain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4168	0	3908	129	0
1	2	4168	0	3908	126	0
1	3	4168	0	3908	129	0
1	4	4168	0	3908	128	0
1	5	4168	0	3908	129	0
1	6	4168	0	3908	125	0
1	7	4168	0	3908	133	0
1	8	4168	0	3908	129	0
1	A	4168	0	3908	135	0
1	B	4168	0	3908	132	0
1	C	4168	0	3908	132	0
1	D	4168	0	3908	133	0
1	E	4168	0	3908	134	0
1	F	4168	0	3908	134	0
1	G	4168	0	3908	134	0
1	H	4168	0	3908	130	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	I	4168	0	3908	130	0
1	J	4168	0	3908	128	0
1	K	4168	0	3908	128	0
1	L	4168	0	3908	133	0
1	M	4168	0	3908	134	0
1	N	4168	0	3908	135	0
1	O	4168	0	3908	130	0
1	P	4168	0	3908	133	0
1	Q	4168	0	3908	134	0
1	R	4168	0	3908	133	0
1	S	4168	0	3908	130	0
1	T	4168	0	3908	130	0
1	U	4168	0	3908	124	0
1	V	4168	0	3908	133	0
1	W	4168	0	3908	125	0
1	X	4168	0	3908	133	0
1	Y	4168	0	3908	131	0
1	Z	4168	0	3908	129	0
1	a	4168	0	3908	129	0
1	b	4168	0	3908	132	0
1	c	4168	0	3908	129	0
1	d	4168	0	3908	126	0
1	e	4168	0	3908	129	0
1	f	4168	0	3908	131	0
1	g	4168	0	3908	129	0
1	h	4168	0	3908	135	0
1	i	4168	0	3908	134	0
1	j	4168	0	3908	130	0
1	k	4168	0	3908	131	0
1	l	4168	0	3908	129	0
1	m	4168	0	3908	130	0
1	n	4168	0	3908	127	0
1	o	4168	0	3908	131	0
1	p	4168	0	3908	131	0
1	q	4168	0	3908	130	0
1	r	4168	0	3908	130	0
1	s	4168	0	3908	127	0
1	t	4168	0	3908	134	0
1	u	4168	0	3908	128	0
1	v	4168	0	3908	133	0
1	w	4168	0	3908	134	0
1	x	4168	0	3908	133	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	y	4168	0	3908	135	0
1	z	4168	0	3908	134	0
2	1	22	0	12	0	0
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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
All	All	251400	0	235200	6090	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 (6090) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:622:THR:HG22	1:v:605:GLN:HE21	1.18	1.09
1:A:605:GLN:HE21	1:G:622:THR:HG22	1.18	1.08
1:m:605:GLN:HE21	1:n:622:THR:HG22	1.18	1.08
1:M:622:THR:HG22	1:b:605:GLN:HE21	1.18	1.08
1:T:605:GLN:HE21	1:d:622:THR:HG22	1.18	1.08
1:f:605:GLN:HE21	1:h:622:THR:HG22	1.18	1.08
1:D:605:GLN:HE21	1:N:622:THR:HG22	1.18	1.08
1:H:622:THR:HG22	1:Y:605:GLN:HE21	1.19	1.08
1:i:622:THR:HG22	1:k:605:GLN:HE21	1.18	1.08
1:N:605:GLN:HE21	1:P:622:THR:HG22	1.19	1.07
1:5:622:THR:HG22	1:7:605:GLN:HE21	1.19	1.07
1:W:605:GLN:HE21	1:Y:622:THR:HG22	1.18	1.07
1:6:605:GLN:HE21	1:7:622:THR:HG22	1.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:605:GLN:HE21	1:b:622:THR:HG22	1.18	1.07
1:i:605:GLN:HE21	1:j:622:THR:HG22	1.19	1.07
1:f:622:THR:HG22	1:g:605:GLN:HE21	1.18	1.07
1:J:605:GLN:HE21	1:L:622:THR:HG22	1.18	1.06
1:T:622:THR:HG22	1:l:605:GLN:HE21	1.18	1.06
1:Z:622:THR:HG22	1:3:605:GLN:HE21	1.19	1.06
1:w:605:GLN:HE21	1:x:622:THR:HG22	1.17	1.06
1:z:622:THR:HG22	1:2:605:GLN:HE21	1.18	1.06
1:O:605:GLN:HE21	1:m:622:THR:HG22	1.18	1.06
1:V:622:THR:HG22	1:X:605:GLN:HE21	1.18	1.05
1:a:605:GLN:HE21	1:8:622:THR:HG22	1.19	1.05
1:E:605:GLN:HE21	1:Q:622:THR:HG22	1.18	1.05
1:o:605:GLN:HE21	1:p:622:THR:HG22	1.18	1.05
1:C:622:THR:HG22	1:M:605:GLN:HE21	1.18	1.04
1:H:605:GLN:HE21	1:W:622:THR:HG22	1.18	1.04
1:c:605:GLN:HE21	1:o:622:THR:HG22	1.18	1.04
1:q:622:THR:HG22	1:s:605:GLN:HE21	1.18	1.04
1:z:605:GLN:HE21	1:1:622:THR:HG22	1.18	1.04
1:R:622:THR:HG22	1:U:605:GLN:HE21	1.18	1.04
1:5:605:GLN:HE21	1:6:622:THR:HG22	1.19	1.04
1:D:622:THR:HG22	1:P:605:GLN:HE21	1.18	1.04
1:X:622:THR:HG22	1:e:605:GLN:HE21	1.18	1.04
1:g:622:THR:HG22	1:h:605:GLN:HE21	1.18	1.04
1:B:622:THR:HG22	1:L:605:GLN:HE21	1.18	1.04
1:j:605:GLN:HE21	1:k:622:THR:HG22	1.19	1.04
1:V:605:GLN:HE21	1:e:622:THR:HG22	1.18	1.03
1:c:622:THR:HG22	1:p:605:GLN:HE21	1.18	1.03
1:w:622:THR:HG22	1:y:605:GLN:HE21	1.18	1.03
1:r:605:GLN:HE21	1:s:622:THR:HG22	1.18	1.03
1:3:622:THR:HG22	1:4:605:GLN:HE21	1.18	1.03
1:K:605:GLN:HE21	1:a:622:THR:HG22	1.18	1.03
1:S:605:GLN:HE21	1:U:622:THR:HG22	1.18	1.03
1:A:622:THR:HG22	1:I:605:GLN:HE21	1.17	1.03
1:F:622:THR:HG22	1:Q:605:GLN:HE21	1.18	1.03
1:G:605:GLN:HE21	1:I:622:THR:HG22	1.18	1.03
1:K:622:THR:HG22	1:8:605:GLN:HE21	1.18	1.03
1:t:605:GLN:HE21	1:u:622:THR:HG22	1.18	1.03
1:E:622:THR:HG22	1:F:605:GLN:HE21	1.18	1.03
1:x:605:GLN:HE21	1:y:622:THR:HG22	1.18	1.02
1:1:605:GLN:HE21	1:2:622:THR:HG22	1.18	1.02
1:Z:605:GLN:HE21	1:4:622:THR:HG22	1.18	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:605:GLN:HE21	1:l:622:THR:HG22	1.19	1.02
1:u:605:GLN:HE21	1:v:622:THR:HG22	1.18	1.02
1:B:605:GLN:HE21	1:J:622:THR:HG22	1.18	1.02
1:O:622:THR:HG22	1:n:605:GLN:HE21	1.19	1.02
1:R:605:GLN:HE21	1:S:622:THR:HG22	1.18	1.01
1:q:605:GLN:HE21	1:r:622:THR:HG22	1.18	1.01
1:7:448:GLN:HE21	1:7:454:GLN:HB3	1.39	0.88
1:Y:448:GLN:HE21	1:Y:454:GLN:HB3	1.39	0.88
1:3:448:GLN:HE21	1:3:454:GLN:HB3	1.39	0.88
1:a:448:GLN:HE21	1:a:454:GLN:HB3	1.39	0.88
1:c:448:GLN:HE21	1:c:454:GLN:HB3	1.39	0.87
1:e:448:GLN:HE21	1:e:454:GLN:HB3	1.39	0.87
1:1:448:GLN:HE21	1:1:454:GLN:HB3	1.39	0.87
1:B:448:GLN:HE21	1:B:454:GLN:HB3	1.39	0.87
1:S:448:GLN:HE21	1:S:454:GLN:HB3	1.39	0.87
1:r:448:GLN:HE21	1:r:454:GLN:HB3	1.39	0.87
1:Z:448:GLN:HE21	1:Z:454:GLN:HB3	1.39	0.87
1:h:448:GLN:HE21	1:h:454:GLN:HB3	1.39	0.87
1:8:448:GLN:HE21	1:8:454:GLN:HB3	1.39	0.87
1:M:448:GLN:HE21	1:M:454:GLN:HB3	1.39	0.87
1:N:448:GLN:HE21	1:N:454:GLN:HB3	1.39	0.87
1:T:448:GLN:HE21	1:T:454:GLN:HB3	1.39	0.87
1:i:448:GLN:HE21	1:i:454:GLN:HB3	1.39	0.87
1:t:448:GLN:HE21	1:t:454:GLN:HB3	1.39	0.87
1:m:448:GLN:HE21	1:m:454:GLN:HB3	1.39	0.87
1:v:448:GLN:HE21	1:v:454:GLN:HB3	1.39	0.87
1:G:448:GLN:HE21	1:G:454:GLN:HB3	1.39	0.86
1:R:448:GLN:HE21	1:R:454:GLN:HB3	1.39	0.86
1:A:563:ILE:HD12	1:A:567:ASN:HD22	1.41	0.86
1:Y:563:ILE:HD12	1:Y:567:ASN:HD22	1.40	0.86
1:l:448:GLN:HE21	1:l:454:GLN:HB3	1.39	0.86
1:7:563:ILE:HD12	1:7:567:ASN:HD22	1.40	0.86
1:F:448:GLN:HE21	1:F:454:GLN:HB3	1.39	0.86
1:L:448:GLN:HE21	1:L:454:GLN:HB3	1.39	0.86
1:X:563:ILE:HD12	1:X:567:ASN:HD22	1.41	0.86
1:q:448:GLN:HE21	1:q:454:GLN:HB3	1.39	0.86
1:v:563:ILE:HD12	1:v:567:ASN:HD22	1.41	0.86
1:A:448:GLN:HE21	1:A:454:GLN:HB3	1.39	0.86
1:L:563:ILE:HD12	1:L:567:ASN:HD22	1.41	0.86
1:O:448:GLN:HE21	1:O:454:GLN:HB3	1.39	0.86
1:V:448:GLN:HE21	1:V:454:GLN:HB3	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:563:ILE:HD12	1:o:567:ASN:HD22	1.41	0.86
1:H:448:GLN:HE21	1:H:454:GLN:HB3	1.39	0.86
1:d:563:ILE:HD12	1:d:567:ASN:HD22	1.41	0.86
1:p:563:ILE:HD12	1:p:567:ASN:HD22	1.41	0.86
1:x:448:GLN:HE21	1:x:454:GLN:HB3	1.39	0.86
1:y:448:GLN:HE21	1:y:454:GLN:HB3	1.39	0.86
1:z:448:GLN:HE21	1:z:454:GLN:HB3	1.39	0.86
1:z:563:ILE:HD12	1:z:567:ASN:HD22	1.41	0.86
1:5:448:GLN:HE21	1:5:454:GLN:HB3	1.39	0.86
1:8:563:ILE:HD12	1:8:567:ASN:HD22	1.41	0.86
1:M:563:ILE:HD12	1:M:567:ASN:HD22	1.41	0.86
1:P:448:GLN:HE21	1:P:454:GLN:HB3	1.39	0.86
1:Q:448:GLN:HE21	1:Q:454:GLN:HB3	1.39	0.86
1:T:563:ILE:HD12	1:T:567:ASN:HD22	1.40	0.86
1:V:563:ILE:HD12	1:V:567:ASN:HD22	1.41	0.86
1:h:563:ILE:HD12	1:h:567:ASN:HD22	1.41	0.86
1:m:563:ILE:HD12	1:m:567:ASN:HD22	1.41	0.86
1:n:448:GLN:HE21	1:n:454:GLN:HB3	1.39	0.86
1:n:563:ILE:HD12	1:n:567:ASN:HD22	1.41	0.86
1:W:448:GLN:HE21	1:W:454:GLN:HB3	1.39	0.86
1:X:448:GLN:HE21	1:X:454:GLN:HB3	1.39	0.86
1:Z:563:ILE:HD12	1:Z:567:ASN:HD22	1.41	0.86
1:d:448:GLN:HE21	1:d:454:GLN:HB3	1.39	0.86
1:o:448:GLN:HE21	1:o:454:GLN:HB3	1.39	0.86
1:p:448:GLN:HE21	1:p:454:GLN:HB3	1.39	0.86
1:H:563:ILE:HD12	1:H:567:ASN:HD22	1.41	0.86
1:b:563:ILE:HD12	1:b:567:ASN:HD22	1.41	0.86
1:y:563:ILE:HD12	1:y:567:ASN:HD22	1.41	0.86
1:5:563:ILE:HD12	1:5:567:ASN:HD22	1.40	0.86
1:N:563:ILE:HD12	1:N:567:ASN:HD22	1.41	0.86
1:f:563:ILE:HD12	1:f:567:ASN:HD22	1.41	0.86
1:4:448:GLN:HE21	1:4:454:GLN:HB3	1.39	0.86
1:B:563:ILE:HD12	1:B:567:ASN:HD22	1.41	0.86
1:F:563:ILE:HD12	1:F:567:ASN:HD22	1.41	0.86
1:i:563:ILE:HD12	1:i:567:ASN:HD22	1.41	0.86
1:6:448:GLN:HE21	1:6:454:GLN:HB3	1.39	0.86
1:a:563:ILE:HD12	1:a:567:ASN:HD22	1.41	0.85
1:k:448:GLN:HE21	1:k:454:GLN:HB3	1.39	0.85
1:1:563:ILE:HD12	1:1:567:ASN:HD22	1.41	0.85
1:2:563:ILE:HD12	1:2:567:ASN:HD22	1.41	0.85
1:D:448:GLN:HE21	1:D:454:GLN:HB3	1.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:563:ILE:HD12	1:E:567:ASN:HD22	1.41	0.85
1:J:563:ILE:HD12	1:J:567:ASN:HD22	1.41	0.85
1:K:448:GLN:HE21	1:K:454:GLN:HB3	1.39	0.85
1:j:448:GLN:HE21	1:j:454:GLN:HB3	1.39	0.85
1:j:563:ILE:HD12	1:j:567:ASN:HD22	1.41	0.85
1:r:563:ILE:HD12	1:r:567:ASN:HD22	1.41	0.85
1:P:563:ILE:HD12	1:P:567:ASN:HD22	1.41	0.85
1:3:563:ILE:HD12	1:3:567:ASN:HD22	1.41	0.85
1:U:448:GLN:HE21	1:U:454:GLN:HB3	1.39	0.85
1:s:448:GLN:HE21	1:s:454:GLN:HB3	1.39	0.85
1:w:563:ILE:HD12	1:w:567:ASN:HD22	1.41	0.85
1:S:563:ILE:HD12	1:S:567:ASN:HD22	1.41	0.85
1:C:448:GLN:HE21	1:C:454:GLN:HB3	1.39	0.85
1:w:448:GLN:HE21	1:w:454:GLN:HB3	1.39	0.85
1:C:563:ILE:HD12	1:C:567:ASN:HD22	1.41	0.85
1:u:448:GLN:HE21	1:u:454:GLN:HB3	1.39	0.85
1:I:448:GLN:HE21	1:I:454:GLN:HB3	1.39	0.85
1:O:563:ILE:HD12	1:O:567:ASN:HD22	1.41	0.85
1:g:563:ILE:HD12	1:g:567:ASN:HD22	1.41	0.85
1:E:448:GLN:HE21	1:E:454:GLN:HB3	1.39	0.84
1:f:448:GLN:HE21	1:f:454:GLN:HB3	1.39	0.84
1:4:563:ILE:HD12	1:4:567:ASN:HD22	1.41	0.84
1:D:563:ILE:HD12	1:D:567:ASN:HD22	1.41	0.84
1:g:448:GLN:HE21	1:g:454:GLN:HB3	1.39	0.84
1:l:563:ILE:HD12	1:l:567:ASN:HD22	1.41	0.84
1:W:563:ILE:HD12	1:W:567:ASN:HD22	1.41	0.84
1:b:448:GLN:HE21	1:b:454:GLN:HB3	1.39	0.84
1:c:563:ILE:HD12	1:c:567:ASN:HD22	1.41	0.84
1:k:563:ILE:HD12	1:k:567:ASN:HD22	1.41	0.84
1:K:563:ILE:HD12	1:K:567:ASN:HD22	1.41	0.84
1:R:563:ILE:HD12	1:R:567:ASN:HD22	1.41	0.84
1:6:563:ILE:HD12	1:6:567:ASN:HD22	1.41	0.84
1:e:563:ILE:HD12	1:e:567:ASN:HD22	1.41	0.84
1:s:563:ILE:HD12	1:s:567:ASN:HD22	1.41	0.84
1:2:448:GLN:HE21	1:2:454:GLN:HB3	1.39	0.84
1:U:563:ILE:HD12	1:U:567:ASN:HD22	1.41	0.84
1:q:563:ILE:HD12	1:q:567:ASN:HD22	1.41	0.84
1:I:563:ILE:HD12	1:I:567:ASN:HD22	1.41	0.84
1:J:448:GLN:HE21	1:J:454:GLN:HB3	1.39	0.84
1:Q:563:ILE:HD12	1:Q:567:ASN:HD22	1.41	0.83
1:u:563:ILE:HD12	1:u:567:ASN:HD22	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:563:ILE:HD12	1:x:567:ASN:HD22	1.41	0.83
1:F:229:CYS:HG	1:G:396:TYR:HD1	1.24	0.83
1:t:563:ILE:HD12	1:t:567:ASN:HD22	1.41	0.83
1:G:563:ILE:HD12	1:G:567:ASN:HD22	1.41	0.83
1:t:396:TYR:HD1	1:y:229:CYS:HG	1.24	0.82
1:J:605:GLN:NE2	1:L:622:THR:HG22	1.95	0.82
1:v:396:TYR:HD1	1:l:229:CYS:HG	1.25	0.82
1:w:622:THR:HG22	1:y:605:GLN:NE2	1.95	0.82
1:E:622:THR:HG22	1:F:605:GLN:NE2	1.95	0.81
1:z:622:THR:HG22	1:2:605:GLN:NE2	1.95	0.81
1:B:605:GLN:NE2	1:J:622:THR:HG22	1.95	0.81
1:Q:229:CYS:HG	1:S:396:TYR:HD1	1.20	0.81
1:m:605:GLN:NE2	1:n:622:THR:HG22	1.95	0.81
1:A:622:THR:HG22	1:I:605:GLN:NE2	1.94	0.81
1:H:622:THR:HG22	1:Y:605:GLN:NE2	1.96	0.81
1:R:605:GLN:NE2	1:S:622:THR:HG22	1.95	0.81
1:T:605:GLN:NE2	1:d:622:THR:HG22	1.95	0.81
1:q:605:GLN:NE2	1:r:622:THR:HG22	1.95	0.81
1:l:605:GLN:NE2	1:2:622:THR:HG22	1.95	0.81
1:5:622:THR:HG22	1:7:605:GLN:NE2	1.96	0.81
1:C:605:GLN:NE2	1:b:622:THR:HG22	1.95	0.81
1:C:622:THR:HG22	1:M:605:GLN:NE2	1.95	0.81
1:f:622:THR:HG22	1:g:605:GLN:NE2	1.95	0.81
1:w:605:GLN:NE2	1:x:622:THR:HG22	1.95	0.81
1:D:622:THR:HG22	1:P:605:GLN:NE2	1.96	0.81
1:g:622:THR:HG22	1:h:605:GLN:NE2	1.95	0.81
1:E:605:GLN:NE2	1:Q:622:THR:HG22	1.95	0.81
1:K:622:THR:HG22	1:8:605:GLN:NE2	1.95	0.81
1:6:605:GLN:NE2	1:7:622:THR:HG22	1.95	0.81
1:D:605:GLN:NE2	1:N:622:THR:HG22	1.96	0.81
1:W:605:GLN:NE2	1:Y:622:THR:HG22	1.96	0.81
1:Z:605:GLN:NE2	1:4:622:THR:HG22	1.95	0.81
1:i:622:THR:HG22	1:k:605:GLN:NE2	1.96	0.81
1:o:605:GLN:NE2	1:p:622:THR:HG22	1.95	0.81
1:N:605:GLN:NE2	1:P:622:THR:HG22	1.96	0.80
1:V:622:THR:HG22	1:X:605:GLN:NE2	1.95	0.80
1:u:605:GLN:NE2	1:v:622:THR:HG22	1.95	0.80
1:T:622:THR:HG22	1:l:605:GLN:NE2	1.95	0.80
1:G:605:GLN:NE2	1:I:622:THR:HG22	1.95	0.80
1:O:605:GLN:NE2	1:m:622:THR:HG22	1.95	0.80
1:i:605:GLN:NE2	1:j:622:THR:HG22	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:605:GLN:NE2	1:y:622:THR:HG22	1.95	0.80
1:a:605:GLN:NE2	1:8:622:THR:HG22	1.96	0.80
1:t:605:GLN:NE2	1:u:622:THR:HG22	1.95	0.80
1:Z:622:THR:HG22	1:3:605:GLN:NE2	1.96	0.80
1:r:396:TYR:HD1	1:x:229:CYS:HG	1.22	0.80
1:A:605:GLN:NE2	1:G:622:THR:HG22	1.96	0.80
1:F:622:THR:HG22	1:Q:605:GLN:NE2	1.95	0.80
1:d:605:GLN:NE2	1:l:622:THR:HG22	1.96	0.80
1:q:622:THR:HG22	1:s:605:GLN:NE2	1.95	0.80
1:z:605:GLN:NE2	1:1:622:THR:HG22	1.95	0.80
1:B:622:THR:HG22	1:L:605:GLN:NE2	1.95	0.80
1:O:622:THR:HG22	1:n:605:GLN:NE2	1.96	0.80
1:V:605:GLN:NE2	1:e:622:THR:HG22	1.95	0.80
1:c:622:THR:HG22	1:p:605:GLN:NE2	1.95	0.80
1:t:622:THR:HG22	1:v:605:GLN:NE2	1.95	0.80
1:R:622:THR:HG22	1:U:605:GLN:NE2	1.95	0.80
1:M:622:THR:HG22	1:b:605:GLN:NE2	1.95	0.80
1:f:605:GLN:NE2	1:h:622:THR:HG22	1.95	0.79
1:r:605:GLN:NE2	1:s:622:THR:HG22	1.95	0.79
1:H:605:GLN:NE2	1:W:622:THR:HG22	1.96	0.79
1:S:605:GLN:NE2	1:U:622:THR:HG22	1.95	0.79
1:3:622:THR:HG22	1:4:605:GLN:NE2	1.96	0.79
1:6:336:THR:O	1:6:403:ARG:NH1	2.16	0.79
1:F:336:THR:O	1:F:403:ARG:NH1	2.16	0.79
1:N:336:THR:O	1:N:403:ARG:NH1	2.16	0.79
1:W:336:THR:O	1:W:403:ARG:NH1	2.16	0.79
1:i:336:THR:O	1:i:403:ARG:NH1	2.16	0.79
1:y:336:THR:O	1:y:403:ARG:NH1	2.16	0.79
1:5:605:GLN:NE2	1:6:622:THR:HG22	1.96	0.79
1:I:336:THR:O	1:I:403:ARG:NH1	2.16	0.79
1:K:605:GLN:NE2	1:a:622:THR:HG22	1.96	0.79
1:S:336:THR:O	1:S:403:ARG:NH1	2.16	0.79
1:r:336:THR:O	1:r:403:ARG:NH1	2.16	0.79
1:l:336:THR:O	1:l:403:ARG:NH1	2.16	0.79
1:u:336:THR:O	1:u:403:ARG:NH1	2.16	0.79
1:2:336:THR:O	1:2:403:ARG:NH1	2.16	0.79
1:D:336:THR:O	1:D:403:ARG:NH1	2.16	0.78
1:O:336:THR:O	1:O:403:ARG:NH1	2.16	0.78
1:Q:336:THR:O	1:Q:403:ARG:NH1	2.16	0.78
1:k:336:THR:O	1:k:403:ARG:NH1	2.16	0.78
1:C:336:THR:O	1:C:403:ARG:NH1	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:336:THR:O	1:H:403:ARG:NH1	2.16	0.78
1:J:336:THR:O	1:J:403:ARG:NH1	2.16	0.78
1:V:336:THR:O	1:V:403:ARG:NH1	2.16	0.78
1:g:336:THR:O	1:g:403:ARG:NH1	2.16	0.78
1:p:336:THR:O	1:p:403:ARG:NH1	2.16	0.78
1:s:336:THR:O	1:s:403:ARG:NH1	2.16	0.78
1:x:336:THR:O	1:x:403:ARG:NH1	2.16	0.78
1:A:336:THR:O	1:A:403:ARG:NH1	2.16	0.78
1:U:336:THR:O	1:U:403:ARG:NH1	2.16	0.78
1:t:336:THR:O	1:t:403:ARG:NH1	2.16	0.78
1:5:336:THR:O	1:5:403:ARG:NH1	2.16	0.78
1:G:336:THR:O	1:G:403:ARG:NH1	2.16	0.78
1:K:336:THR:O	1:K:403:ARG:NH1	2.16	0.78
1:M:336:THR:O	1:M:403:ARG:NH1	2.16	0.78
1:h:336:THR:O	1:h:403:ARG:NH1	2.16	0.78
1:v:336:THR:O	1:v:403:ARG:NH1	2.16	0.78
1:4:336:THR:O	1:4:403:ARG:NH1	2.16	0.78
1:B:336:THR:O	1:B:403:ARG:NH1	2.16	0.78
1:X:229:CYS:HG	1:Y:396:TYR:HD1	1.31	0.78
1:c:336:THR:O	1:c:403:ARG:NH1	2.16	0.78
1:1:336:THR:O	1:1:403:ARG:NH1	2.16	0.78
1:b:336:THR:O	1:b:403:ARG:NH1	2.16	0.78
1:e:336:THR:O	1:e:403:ARG:NH1	2.16	0.78
1:w:336:THR:O	1:w:403:ARG:NH1	2.16	0.78
1:z:336:THR:O	1:z:403:ARG:NH1	2.16	0.78
1:L:336:THR:O	1:L:403:ARG:NH1	2.16	0.78
1:f:336:THR:O	1:f:403:ARG:NH1	2.16	0.78
1:E:336:THR:O	1:E:403:ARG:NH1	2.16	0.78
1:R:336:THR:O	1:R:403:ARG:NH1	2.16	0.78
1:X:622:THR:HG22	1:e:605:GLN:NE2	1.95	0.78
1:7:336:THR:O	1:7:403:ARG:NH1	2.16	0.78
1:j:336:THR:O	1:j:403:ARG:NH1	2.16	0.77
1:j:605:GLN:NE2	1:k:622:THR:HG22	1.96	0.77
1:Y:336:THR:O	1:Y:403:ARG:NH1	2.16	0.77
1:8:336:THR:O	1:8:403:ARG:NH1	2.16	0.77
1:P:336:THR:O	1:P:403:ARG:NH1	2.16	0.77
1:Z:336:THR:O	1:Z:403:ARG:NH1	2.16	0.77
1:c:605:GLN:NE2	1:o:622:THR:HG22	1.95	0.77
1:o:229:CYS:HG	1:7:396:TYR:HD1	1.32	0.77
1:q:336:THR:O	1:q:403:ARG:NH1	2.16	0.77
1:X:336:THR:O	1:X:403:ARG:NH1	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:336:THR:O	1:m:403:ARG:NH1	2.16	0.77
1:T:336:THR:O	1:T:403:ARG:NH1	2.16	0.77
1:o:336:THR:O	1:o:403:ARG:NH1	2.16	0.77
1:d:336:THR:O	1:d:403:ARG:NH1	2.16	0.77
1:n:336:THR:O	1:n:403:ARG:NH1	2.16	0.77
1:R:396:TYR:HD1	1:V:229:CYS:HG	1.32	0.76
1:3:336:THR:O	1:3:403:ARG:NH1	2.16	0.76
1:a:336:THR:O	1:a:403:ARG:NH1	2.16	0.76
1:N:229:CYS:HG	1:m:396:TYR:HD1	1.29	0.76
1:T:396:TYR:HD1	1:i:229:CYS:HG	1.29	0.76
1:Z:396:TYR:HD1	1:a:229:CYS:HG	1.29	0.75
1:K:229:CYS:HG	1:L:396:TYR:HD1	1.32	0.75
1:f:396:TYR:HD1	1:z:229:CYS:HG	1.31	0.74
1:3:229:CYS:HG	1:8:396:TYR:HD1	1.29	0.74
1:m:229:CYS:HG	1:s:396:TYR:HD1	1.29	0.73
1:r:249:PRO:HG3	1:r:370:MET:HE3	1.72	0.72
1:S:249:PRO:HG3	1:S:370:MET:HE3	1.72	0.72
1:c:249:PRO:HG3	1:c:370:MET:HE3	1.72	0.72
1:G:249:PRO:HG3	1:G:370:MET:HE3	1.72	0.72
1:e:249:PRO:HG3	1:e:370:MET:HE3	1.72	0.72
1:h:229:CYS:HG	1:i:396:TYR:HD1	1.37	0.72
1:t:249:PRO:HG3	1:t:370:MET:HE3	1.72	0.72
1:2:249:PRO:HG3	1:2:370:MET:HE3	1.72	0.72
1:6:249:PRO:HG3	1:6:370:MET:HE3	1.72	0.72
1:M:249:PRO:HG3	1:M:370:MET:HE3	1.72	0.72
1:T:249:PRO:HG3	1:T:370:MET:HE3	1.72	0.72
1:m:249:PRO:HG3	1:m:370:MET:HE3	1.72	0.72
1:J:249:PRO:HG3	1:J:370:MET:HE3	1.72	0.72
1:W:249:PRO:HG3	1:W:370:MET:HE3	1.72	0.72
1:f:244:ARG:NH1	1:f:362:PRO:O	2.23	0.72
1:h:249:PRO:HG3	1:h:370:MET:HE3	1.72	0.72
1:L:249:PRO:HG3	1:L:370:MET:HE3	1.72	0.71
1:b:244:ARG:NH1	1:b:362:PRO:O	2.23	0.71
1:p:249:PRO:HG3	1:p:370:MET:HE3	1.72	0.71
1:w:249:PRO:HG3	1:w:370:MET:HE3	1.72	0.71
1:E:249:PRO:HG3	1:E:370:MET:HE3	1.72	0.71
1:Q:244:ARG:NH1	1:Q:362:PRO:O	2.23	0.71
1:V:249:PRO:HG3	1:V:370:MET:HE3	1.72	0.71
1:f:249:PRO:HG3	1:f:370:MET:HE3	1.72	0.71
1:x:244:ARG:NH1	1:x:362:PRO:O	2.23	0.71
1:z:249:PRO:HG3	1:z:370:MET:HE3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:244:ARG:NH1	1:D:362:PRO:O	2.23	0.71
1:b:249:PRO:HG3	1:b:370:MET:HE3	1.72	0.71
1:i:249:PRO:HG3	1:i:370:MET:HE3	1.72	0.71
1:j:249:PRO:HG3	1:j:370:MET:HE3	1.72	0.71
1:k:244:ARG:NH1	1:k:362:PRO:O	2.23	0.71
1:d:244:ARG:NH1	1:d:362:PRO:O	2.23	0.71
1:K:249:PRO:HG3	1:K:370:MET:HE3	1.72	0.71
1:N:249:PRO:HG3	1:N:370:MET:HE3	1.72	0.71
1:O:249:PRO:HG3	1:O:370:MET:HE3	1.72	0.71
1:Z:249:PRO:HG3	1:Z:370:MET:HE3	1.72	0.71
1:4:249:PRO:HG3	1:4:370:MET:HE3	1.72	0.71
1:A:249:PRO:HG3	1:A:370:MET:HE3	1.72	0.71
1:P:249:PRO:HG3	1:P:370:MET:HE3	1.72	0.71
1:j:244:ARG:NH1	1:j:362:PRO:O	2.23	0.71
1:l:249:PRO:HG3	1:l:370:MET:HE3	1.72	0.71
1:v:249:PRO:HG3	1:v:370:MET:HE3	1.72	0.71
1:7:249:PRO:HG3	1:7:370:MET:HE3	1.72	0.71
1:8:249:PRO:HG3	1:8:370:MET:HE3	1.72	0.71
1:P:244:ARG:NH1	1:P:362:PRO:O	2.24	0.71
1:Y:249:PRO:HG3	1:Y:370:MET:HE3	1.72	0.71
1:a:249:PRO:HG3	1:a:370:MET:HE3	1.72	0.71
1:3:249:PRO:HG3	1:3:370:MET:HE3	1.72	0.71
1:m:244:ARG:NH1	1:m:362:PRO:O	2.23	0.71
1:T:244:ARG:NH1	1:T:362:PRO:O	2.23	0.71
1:4:244:ARG:NH1	1:4:362:PRO:O	2.23	0.71
1:I:244:ARG:NH1	1:I:362:PRO:O	2.23	0.71
1:K:244:ARG:NH1	1:K:362:PRO:O	2.23	0.71
1:5:249:PRO:HG3	1:5:370:MET:HE3	1.72	0.71
1:D:249:PRO:HG3	1:D:370:MET:HE3	1.72	0.70
1:H:249:PRO:HG3	1:H:370:MET:HE3	1.72	0.70
1:Q:249:PRO:HG3	1:Q:370:MET:HE3	1.72	0.70
1:U:249:PRO:HG3	1:U:370:MET:HE3	1.72	0.70
1:u:244:ARG:NH1	1:u:362:PRO:O	2.23	0.70
1:s:249:PRO:HG3	1:s:370:MET:HE3	1.72	0.70
1:x:249:PRO:HG3	1:x:370:MET:HE3	1.72	0.70
1:C:249:PRO:HG3	1:C:370:MET:HE3	1.72	0.70
1:X:244:ARG:NH1	1:X:362:PRO:O	2.23	0.70
1:k:249:PRO:HG3	1:k:370:MET:HE3	1.72	0.70
1:y:249:PRO:HG3	1:y:370:MET:HE3	1.72	0.70
1:B:244:ARG:NH1	1:B:362:PRO:O	2.23	0.70
1:F:249:PRO:HG3	1:F:370:MET:HE3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:244:ARG:NH1	1:Z:362:PRO:O	2.23	0.70
1:g:249:PRO:HG3	1:g:370:MET:HE3	1.72	0.70
1:n:249:PRO:HG3	1:n:370:MET:HE3	1.72	0.70
1:o:244:ARG:NH1	1:o:362:PRO:O	2.23	0.70
1:1:249:PRO:HG3	1:1:370:MET:HE3	1.72	0.70
1:H:244:ARG:NH1	1:H:362:PRO:O	2.23	0.70
1:d:249:PRO:HG3	1:d:370:MET:HE3	1.72	0.70
1:1:244:ARG:NH1	1:1:362:PRO:O	2.23	0.70
1:A:244:ARG:NH1	1:A:362:PRO:O	2.23	0.70
1:B:249:PRO:HG3	1:B:370:MET:HE3	1.72	0.70
1:C:244:ARG:NH1	1:C:362:PRO:O	2.23	0.70
1:s:244:ARG:NH1	1:s:362:PRO:O	2.23	0.70
1:r:244:ARG:NH1	1:r:362:PRO:O	2.23	0.70
1:5:244:ARG:NH1	1:5:362:PRO:O	2.23	0.70
1:8:244:ARG:NH1	1:8:362:PRO:O	2.23	0.70
1:F:396:TYR:HD1	1:R:229:CYS:HG	1.35	0.70
1:I:249:PRO:HG3	1:I:370:MET:HE3	1.72	0.70
1:S:244:ARG:NH1	1:S:362:PRO:O	2.23	0.70
1:U:244:ARG:NH1	1:U:362:PRO:O	2.23	0.70
1:g:244:ARG:NH1	1:g:362:PRO:O	2.23	0.70
1:v:244:ARG:NH1	1:v:362:PRO:O	2.23	0.70
1:R:249:PRO:HG3	1:R:370:MET:HE3	1.72	0.70
1:q:244:ARG:NH1	1:q:362:PRO:O	2.23	0.70
1:W:244:ARG:NH1	1:W:362:PRO:O	2.24	0.70
1:c:244:ARG:NH1	1:c:362:PRO:O	2.23	0.70
1:u:249:PRO:HG3	1:u:370:MET:HE3	1.72	0.70
1:R:244:ARG:NH1	1:R:362:PRO:O	2.23	0.69
1:q:249:PRO:HG3	1:q:370:MET:HE3	1.72	0.69
1:6:244:ARG:NH1	1:6:362:PRO:O	2.23	0.69
1:L:244:ARG:NH1	1:L:362:PRO:O	2.23	0.69
1:e:244:ARG:NH1	1:e:362:PRO:O	2.23	0.69
1:q:229:CYS:HG	1:y:396:TYR:HD1	1.35	0.69
1:z:244:ARG:NH1	1:z:362:PRO:O	2.23	0.69
1:X:229:CYS:SG	1:Y:396:TYR:HD1	2.16	0.69
1:X:249:PRO:HG3	1:X:370:MET:HE3	1.72	0.69
1:7:244:ARG:NH1	1:7:362:PRO:O	2.23	0.69
1:M:229:CYS:SG	1:N:396:TYR:HD1	2.16	0.69
1:P:229:CYS:SG	1:Q:396:TYR:HD1	2.16	0.69
1:Y:244:ARG:NH1	1:Y:362:PRO:O	2.23	0.69
1:h:229:CYS:SG	1:i:396:TYR:HD1	2.16	0.69
1:j:229:CYS:SG	1:x:396:TYR:HD1	2.16	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:249:PRO:HG3	1:o:370:MET:HE3	1.72	0.69
1:2:244:ARG:NH1	1:2:362:PRO:O	2.23	0.69
1:O:229:CYS:SG	1:P:396:TYR:HD1	2.16	0.69
1:j:396:TYR:HD1	1:l:229:CYS:SG	2.16	0.69
1:J:244:ARG:NH1	1:J:362:PRO:O	2.23	0.69
1:T:396:TYR:HD1	1:i:229:CYS:SG	2.16	0.69
1:V:396:TYR:HD1	1:W:229:CYS:SG	2.16	0.69
1:o:229:CYS:SG	1:7:396:TYR:HD1	2.16	0.69
1:p:396:TYR:HD1	1:6:229:CYS:SG	2.16	0.69
1:t:244:ARG:NH1	1:t:362:PRO:O	2.23	0.69
1:F:229:CYS:SG	1:G:396:TYR:HD1	2.16	0.69
1:G:244:ARG:NH1	1:G:362:PRO:O	2.23	0.69
1:L:229:CYS:SG	1:b:396:TYR:HD1	2.16	0.69
1:M:244:ARG:NH1	1:M:362:PRO:O	2.23	0.69
1:t:396:TYR:HD1	1:y:229:CYS:SG	2.16	0.69
1:v:229:CYS:SG	1:w:396:TYR:HD1	2.16	0.69
1:y:244:ARG:NH1	1:y:362:PRO:O	2.23	0.69
1:D:396:TYR:HD1	1:E:229:CYS:SG	2.16	0.69
1:F:244:ARG:NH1	1:F:362:PRO:O	2.23	0.69
1:M:229:CYS:HG	1:N:396:TYR:HD1	1.40	0.69
1:N:229:CYS:SG	1:m:396:TYR:HD1	2.16	0.69
1:X:396:TYR:HD1	1:f:229:CYS:SG	2.16	0.69
1:Y:229:CYS:SG	1:4:396:TYR:HD1	2.16	0.69
1:b:229:CYS:SG	1:o:396:TYR:HD1	2.15	0.69
1:T:229:CYS:SG	1:U:396:TYR:HD1	2.16	0.68
1:a:244:ARG:NH1	1:a:362:PRO:O	2.23	0.68
1:g:229:CYS:SG	1:1:396:TYR:HD1	2.16	0.68
1:h:244:ARG:NH1	1:h:362:PRO:O	2.23	0.68
1:p:229:CYS:SG	1:q:396:TYR:HD1	2.16	0.68
1:3:244:ARG:NH1	1:3:362:PRO:O	2.23	0.68
1:B:396:TYR:HD1	1:C:229:CYS:SG	2.17	0.68
1:k:396:TYR:HD1	1:w:229:CYS:SG	2.17	0.68
1:l:396:TYR:HD1	1:n:229:CYS:SG	2.16	0.68
1:m:229:CYS:SG	1:s:396:TYR:HD1	2.16	0.68
1:A:396:TYR:HD1	1:B:229:CYS:SG	2.15	0.68
1:K:396:TYR:HD1	1:7:229:CYS:SG	2.16	0.68
1:O:396:TYR:HD1	1:d:229:CYS:SG	2.16	0.68
1:R:396:TYR:HD1	1:V:229:CYS:SG	2.16	0.68
1:A:229:CYS:SG	1:E:396:TYR:HD1	2.17	0.68
1:C:396:TYR:HD1	1:D:229:CYS:HG	1.36	0.68
1:F:396:TYR:HD1	1:R:229:CYS:SG	2.15	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:229:CYS:SG	1:I:396:TYR:HD1	2.16	0.68
1:u:229:CYS:SG	1:2:396:TYR:HD1	2.16	0.68
1:u:396:TYR:HD1	1:5:229:CYS:SG	2.16	0.68
1:v:396:TYR:HD1	1:1:229:CYS:SG	2.15	0.68
1:2:229:CYS:SG	1:3:396:TYR:HD1	2.16	0.68
1:A:396:TYR:HD1	1:B:229:CYS:HG	1.40	0.68
1:c:396:TYR:HD1	1:s:229:CYS:SG	2.16	0.68
1:q:229:CYS:SG	1:y:396:TYR:HD1	2.15	0.68
1:z:396:TYR:HD1	1:4:229:CYS:HG	1.38	0.68
1:A:606:ASP:OD1	1:A:627:HIS:HE1	1.77	0.68
1:H:396:TYR:HD1	1:Z:229:CYS:SG	2.16	0.68
1:I:229:CYS:SG	1:J:396:TYR:HD1	2.16	0.68
1:Q:606:ASP:OD1	1:Q:627:HIS:HE1	1.77	0.68
1:G:606:ASP:OD1	1:G:627:HIS:HE1	1.77	0.68
1:J:229:CYS:SG	1:a:396:TYR:HD1	2.17	0.68
1:M:606:ASP:OD1	1:M:627:HIS:HE1	1.77	0.68
1:S:229:CYS:SG	1:d:396:TYR:HD1	2.16	0.68
1:U:229:CYS:SG	1:e:396:TYR:HD1	2.16	0.68
1:b:229:CYS:HG	1:o:396:TYR:HD1	1.40	0.68
1:e:229:CYS:SG	1:h:396:TYR:HD1	2.15	0.68
1:t:606:ASP:OD1	1:t:627:HIS:HE1	1.77	0.68
1:v:606:ASP:OD1	1:v:627:HIS:HE1	1.77	0.68
1:x:606:ASP:OD1	1:x:627:HIS:HE1	1.77	0.68
1:N:244:ARG:NH1	1:N:362:PRO:O	2.23	0.68
1:X:396:TYR:HD1	1:f:229:CYS:HG	1.40	0.68
1:c:606:ASP:OD1	1:c:627:HIS:HE1	1.77	0.68
1:e:606:ASP:OD1	1:e:627:HIS:HE1	1.77	0.68
1:h:606:ASP:OD1	1:h:627:HIS:HE1	1.77	0.68
1:n:396:TYR:HD1	1:r:229:CYS:SG	2.16	0.68
1:y:606:ASP:OD1	1:y:627:HIS:HE1	1.77	0.68
1:z:396:TYR:HD1	1:4:229:CYS:SG	2.16	0.68
1:F:606:ASP:OD1	1:F:627:HIS:HE1	1.77	0.68
1:M:396:TYR:HD1	1:c:229:CYS:SG	2.16	0.68
1:d:606:ASP:OD1	1:d:627:HIS:HE1	1.77	0.68
1:i:244:ARG:NH1	1:i:362:PRO:O	2.23	0.68
1:n:606:ASP:OD1	1:n:627:HIS:HE1	1.77	0.68
1:w:244:ARG:NH1	1:w:362:PRO:O	2.23	0.68
1:5:396:TYR:HD1	1:8:229:CYS:SG	2.16	0.68
1:E:244:ARG:NH1	1:E:362:PRO:O	2.23	0.68
1:K:229:CYS:SG	1:L:396:TYR:HD1	2.16	0.68
1:Z:396:TYR:HD1	1:a:229:CYS:SG	2.16	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:606:ASP:OD1	1:i:627:HIS:HE1	1.77	0.68
1:m:606:ASP:OD1	1:m:627:HIS:HE1	1.77	0.68
1:5:606:ASP:OD1	1:5:627:HIS:HE1	1.77	0.68
1:C:396:TYR:HD1	1:D:229:CYS:SG	2.16	0.67
1:N:606:ASP:OD1	1:N:627:HIS:HE1	1.77	0.67
1:T:606:ASP:OD1	1:T:627:HIS:HE1	1.77	0.67
1:a:606:ASP:OD1	1:a:627:HIS:HE1	1.77	0.67
1:f:396:TYR:HD1	1:z:229:CYS:SG	2.16	0.67
1:3:606:ASP:OD1	1:3:627:HIS:HE1	1.77	0.67
1:Y:606:ASP:OD1	1:Y:627:HIS:HE1	1.77	0.67
1:g:396:TYR:HD1	1:k:229:CYS:SG	2.16	0.67
1:o:606:ASP:OD1	1:o:627:HIS:HE1	1.77	0.67
1:s:606:ASP:OD1	1:s:627:HIS:HE1	1.77	0.67
1:1:606:ASP:OD1	1:1:627:HIS:HE1	1.77	0.67
1:B:606:ASP:OD1	1:B:627:HIS:HE1	1.77	0.67
1:H:606:ASP:OD1	1:H:627:HIS:HE1	1.77	0.67
1:X:606:ASP:OD1	1:X:627:HIS:HE1	1.77	0.67
1:7:606:ASP:OD1	1:7:627:HIS:HE1	1.77	0.67
1:U:606:ASP:OD1	1:U:627:HIS:HE1	1.77	0.67
1:E:606:ASP:OD1	1:E:627:HIS:HE1	1.77	0.67
1:I:606:ASP:OD1	1:I:627:HIS:HE1	1.77	0.67
1:q:606:ASP:OD1	1:q:627:HIS:HE1	1.77	0.67
1:w:606:ASP:OD1	1:w:627:HIS:HE1	1.77	0.67
1:3:229:CYS:SG	1:8:396:TYR:HD1	2.16	0.67
1:G:229:CYS:SG	1:W:396:TYR:HD1	2.16	0.67
1:r:396:TYR:HD1	1:x:229:CYS:SG	2.16	0.67
1:t:229:CYS:SG	1:6:396:TYR:HD1	2.16	0.67
1:u:606:ASP:OD1	1:u:627:HIS:HE1	1.77	0.67
1:Q:229:CYS:SG	1:S:396:TYR:HD1	2.16	0.67
1:R:606:ASP:OD1	1:R:627:HIS:HE1	1.77	0.67
1:W:606:ASP:OD1	1:W:627:HIS:HE1	1.77	0.67
1:j:606:ASP:OD1	1:j:627:HIS:HE1	1.77	0.67
1:p:606:ASP:OD1	1:p:627:HIS:HE1	1.77	0.67
1:C:606:ASP:OD1	1:C:627:HIS:HE1	1.77	0.67
1:O:244:ARG:NH1	1:O:362:PRO:O	2.23	0.67
1:P:606:ASP:OD1	1:P:627:HIS:HE1	1.77	0.67
1:V:606:ASP:OD1	1:V:627:HIS:HE1	1.77	0.67
1:Z:606:ASP:OD1	1:Z:627:HIS:HE1	1.77	0.67
1:8:606:ASP:OD1	1:8:627:HIS:HE1	1.77	0.67
1:g:606:ASP:OD1	1:g:627:HIS:HE1	1.77	0.67
1:6:606:ASP:OD1	1:6:627:HIS:HE1	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:244:ARG:NH1	1:l:362:PRO:O	2.23	0.67
1:2:606:ASP:OD1	1:2:627:HIS:HE1	1.77	0.67
1:D:606:ASP:OD1	1:D:627:HIS:HE1	1.77	0.66
1:V:244:ARG:NH1	1:V:362:PRO:O	2.23	0.66
1:k:606:ASP:OD1	1:k:627:HIS:HE1	1.77	0.66
1:l:606:ASP:OD1	1:l:627:HIS:HE1	1.77	0.66
1:J:606:ASP:OD1	1:J:627:HIS:HE1	1.77	0.66
1:K:606:ASP:OD1	1:K:627:HIS:HE1	1.77	0.66
1:O:606:ASP:OD1	1:O:627:HIS:HE1	1.77	0.66
1:L:606:ASP:OD1	1:L:627:HIS:HE1	1.77	0.66
1:p:244:ARG:NH1	1:p:362:PRO:O	2.23	0.66
1:4:606:ASP:OD1	1:4:627:HIS:HE1	1.77	0.66
1:f:606:ASP:OD1	1:f:627:HIS:HE1	1.77	0.66
1:r:606:ASP:OD1	1:r:627:HIS:HE1	1.77	0.66
1:S:606:ASP:OD1	1:S:627:HIS:HE1	1.77	0.66
1:b:606:ASP:OD1	1:b:627:HIS:HE1	1.77	0.66
1:g:229:CYS:HG	1:1:396:TYR:HD1	1.43	0.66
1:z:606:ASP:OD1	1:z:627:HIS:HE1	1.77	0.66
1:B:396:TYR:HD1	1:C:229:CYS:HG	1.43	0.66
1:M:228[B]:HIS:HD2	1:M:241:THR:HG21	1.61	0.66
1:e:228[B]:HIS:HD2	1:e:241:THR:HG21	1.61	0.66
1:N:228[B]:HIS:HD2	1:N:241:THR:HG21	1.61	0.66
1:P:228[B]:HIS:HD2	1:P:241:THR:HG21	1.61	0.66
1:i:228[B]:HIS:HD2	1:i:241:THR:HG21	1.61	0.66
1:C:228[B]:HIS:HD2	1:C:241:THR:HG21	1.61	0.66
1:c:228[B]:HIS:HD2	1:c:241:THR:HG21	1.61	0.66
1:g:228[B]:HIS:HD2	1:g:241:THR:HG21	1.61	0.66
1:j:228[B]:HIS:HD2	1:j:241:THR:HG21	1.61	0.66
1:l:228[B]:HIS:HD2	1:l:241:THR:HG21	1.61	0.66
1:W:228[B]:HIS:HD2	1:W:241:THR:HG21	1.61	0.66
1:W:251:TYR:OH	1:W:371:VAL:O	2.14	0.66
1:c:251:TYR:OH	1:c:371:VAL:O	2.15	0.66
1:e:251:TYR:OH	1:e:371:VAL:O	2.14	0.66
1:h:228[B]:HIS:HD2	1:h:241:THR:HG21	1.61	0.66
1:t:228[B]:HIS:HD2	1:t:241:THR:HG21	1.61	0.66
1:6:228[B]:HIS:HD2	1:6:241:THR:HG21	1.61	0.66
1:6:251:TYR:OH	1:6:371:VAL:O	2.14	0.66
1:G:228[B]:HIS:HD2	1:G:241:THR:HG21	1.61	0.65
1:L:251:TYR:OH	1:L:371:VAL:O	2.14	0.65
1:b:228[B]:HIS:HD2	1:b:241:THR:HG21	1.61	0.65
1:f:228[B]:HIS:HD2	1:f:241:THR:HG21	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:228[B]:HIS:HD2	1:D:241:THR:HG21	1.61	0.65
1:O:228[B]:HIS:HD2	1:O:241:THR:HG21	1.61	0.65
1:S:251:TYR:OH	1:S:371:VAL:O	2.14	0.65
1:d:228[B]:HIS:HD2	1:d:241:THR:HG21	1.61	0.65
1:r:251:TYR:OH	1:r:371:VAL:O	2.14	0.65
1:z:251:TYR:OH	1:z:371:VAL:O	2.14	0.65
1:k:228[B]:HIS:HD2	1:k:241:THR:HG21	1.61	0.65
1:z:228[B]:HIS:HD2	1:z:241:THR:HG21	1.61	0.65
1:3:251:TYR:OH	1:3:371:VAL:O	2.14	0.65
1:S:228[B]:HIS:HD2	1:S:241:THR:HG21	1.61	0.65
1:Y:251:TYR:OH	1:Y:371:VAL:O	2.14	0.65
1:n:228[B]:HIS:HD2	1:n:241:THR:HG21	1.61	0.65
1:q:251:TYR:OH	1:q:371:VAL:O	2.14	0.65
1:s:251:TYR:OH	1:s:371:VAL:O	2.14	0.65
1:7:251:TYR:OH	1:7:371:VAL:O	2.14	0.65
1:Q:228[B]:HIS:HD2	1:Q:241:THR:HG21	1.61	0.65
1:Q:251:TYR:OH	1:Q:371:VAL:O	2.14	0.65
1:R:251:TYR:OH	1:R:371:VAL:O	2.14	0.65
1:V:251:TYR:OH	1:V:371:VAL:O	2.14	0.65
1:n:244:ARG:NH1	1:n:362:PRO:O	2.23	0.65
1:4:251:TYR:OH	1:4:371:VAL:O	2.14	0.65
1:8:228[B]:HIS:HD2	1:8:241:THR:HG21	1.61	0.65
1:K:251:TYR:OH	1:K:371:VAL:O	2.14	0.65
1:L:228[B]:HIS:HD2	1:L:241:THR:HG21	1.61	0.65
1:U:251:TYR:OH	1:U:371:VAL:O	2.14	0.65
1:Z:228[B]:HIS:HD2	1:Z:241:THR:HG21	1.61	0.65
1:r:228[B]:HIS:HD2	1:r:241:THR:HG21	1.61	0.65
1:x:228[B]:HIS:HD2	1:x:241:THR:HG21	1.61	0.65
1:h:251:TYR:OH	1:h:371:VAL:O	2.15	0.65
1:p:251:TYR:OH	1:p:371:VAL:O	2.14	0.65
1:B:228[B]:HIS:HD2	1:B:241:THR:HG21	1.61	0.65
1:M:251:TYR:OH	1:M:371:VAL:O	2.14	0.65
1:p:228[B]:HIS:HD2	1:p:241:THR:HG21	1.61	0.65
1:t:251:TYR:OH	1:t:371:VAL:O	2.14	0.65
1:1:228[B]:HIS:HD2	1:1:241:THR:HG21	1.61	0.65
1:F:251:TYR:OH	1:F:371:VAL:O	2.14	0.65
1:G:251:TYR:OH	1:G:371:VAL:O	2.14	0.65
1:T:228[B]:HIS:HD2	1:T:241:THR:HG21	1.61	0.65
1:V:228[B]:HIS:HD2	1:V:241:THR:HG21	1.61	0.65
1:m:228[B]:HIS:HD2	1:m:241:THR:HG21	1.61	0.65
1:q:228[B]:HIS:HD2	1:q:241:THR:HG21	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:228[B]:HIS:HD2	1:I:241:THR:HG21	1.61	0.65
1:R:228[B]:HIS:HD2	1:R:241:THR:HG21	1.61	0.65
1:E:251:TYR:OH	1:E:371:VAL:O	2.14	0.64
1:K:228[B]:HIS:HD2	1:K:241:THR:HG21	1.61	0.64
1:a:228[B]:HIS:HD2	1:a:241:THR:HG21	1.61	0.64
1:s:228[B]:HIS:HD2	1:s:241:THR:HG21	1.61	0.64
1:w:251:TYR:OH	1:w:371:VAL:O	2.14	0.64
1:A:228[B]:HIS:HD2	1:A:241:THR:HG21	1.61	0.64
1:X:228[B]:HIS:HD2	1:X:241:THR:HG21	1.61	0.64
1:f:251:TYR:OH	1:f:371:VAL:O	2.14	0.64
1:3:228[B]:HIS:HD2	1:3:241:THR:HG21	1.61	0.64
1:M:396:TYR:HD1	1:c:229:CYS:HG	1.35	0.64
1:Y:228[B]:HIS:HD2	1:Y:241:THR:HG21	1.61	0.64
1:o:228[B]:HIS:HD2	1:o:241:THR:HG21	1.61	0.64
1:u:228[B]:HIS:HD2	1:u:241:THR:HG21	1.61	0.64
1:v:228[B]:HIS:HD2	1:v:241:THR:HG21	1.61	0.64
1:w:228[B]:HIS:HD2	1:w:241:THR:HG21	1.61	0.64
1:U:228[B]:HIS:HD2	1:U:241:THR:HG21	1.61	0.64
1:b:251:TYR:OH	1:b:371:VAL:O	2.15	0.64
1:n:251:TYR:OH	1:n:371:VAL:O	2.14	0.64
1:t:446:ARG:HB2	1:t:459:LEU:HB2	1.80	0.64
1:4:228[B]:HIS:HD2	1:4:241:THR:HG21	1.61	0.64
1:E:228[B]:HIS:HD2	1:E:241:THR:HG21	1.61	0.64
1:j:251:TYR:OH	1:j:371:VAL:O	2.15	0.64
1:y:228[B]:HIS:HD2	1:y:241:THR:HG21	1.61	0.64
1:A:446:ARG:HB2	1:A:459:LEU:HB2	1.80	0.64
1:P:251:TYR:OH	1:P:371:VAL:O	2.14	0.64
1:X:251:TYR:OH	1:X:371:VAL:O	2.14	0.64
1:a:446:ARG:HB2	1:a:459:LEU:HB2	1.80	0.64
1:e:446:ARG:HB2	1:e:459:LEU:HB2	1.80	0.64
1:v:446:ARG:HB2	1:v:459:LEU:HB2	1.80	0.64
1:5:251:TYR:OH	1:5:371:VAL:O	2.14	0.64
1:F:228[B]:HIS:HD2	1:F:241:THR:HG21	1.61	0.64
1:G:446:ARG:HB2	1:G:459:LEU:HB2	1.80	0.64
1:T:446:ARG:HB2	1:T:459:LEU:HB2	1.80	0.64
1:X:446:ARG:HB2	1:X:459:LEU:HB2	1.80	0.64
1:m:446:ARG:HB2	1:m:459:LEU:HB2	1.80	0.64
1:n:446:ARG:HB2	1:n:459:LEU:HB2	1.80	0.64
1:o:251:TYR:OH	1:o:371:VAL:O	2.14	0.64
1:o:446:ARG:HB2	1:o:459:LEU:HB2	1.80	0.64
1:3:446:ARG:HB2	1:3:459:LEU:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:228[B]:HIS:HD2	1:7:241:THR:HG21	1.61	0.64
1:K:446:ARG:HB2	1:K:459:LEU:HB2	1.80	0.64
1:Y:446:ARG:HB2	1:Y:459:LEU:HB2	1.80	0.64
1:c:446:ARG:HB2	1:c:459:LEU:HB2	1.80	0.64
1:d:446:ARG:HB2	1:d:459:LEU:HB2	1.80	0.64
1:4:446:ARG:HB2	1:4:459:LEU:HB2	1.80	0.64
1:H:251:TYR:OH	1:H:371:VAL:O	2.15	0.64
1:L:446:ARG:HB2	1:L:459:LEU:HB2	1.80	0.64
1:N:446:ARG:HB2	1:N:459:LEU:HB2	1.80	0.64
1:i:446:ARG:HB2	1:i:459:LEU:HB2	1.80	0.64
1:q:446:ARG:HB2	1:q:459:LEU:HB2	1.80	0.64
1:x:446:ARG:HB2	1:x:459:LEU:HB2	1.80	0.64
1:7:446:ARG:HB2	1:7:459:LEU:HB2	1.80	0.64
1:I:446:ARG:HB2	1:I:459:LEU:HB2	1.80	0.64
1:R:446:ARG:HB2	1:R:459:LEU:HB2	1.80	0.64
1:g:251:TYR:OH	1:g:371:VAL:O	2.14	0.64
1:h:229:CYS:SG	1:i:396:TYR:CD1	2.92	0.64
1:z:446:ARG:HB2	1:z:459:LEU:HB2	1.80	0.64
1:C:251:TYR:OH	1:C:371:VAL:O	2.14	0.63
1:J:228[B]:HIS:HD2	1:J:241:THR:HG21	1.61	0.63
1:Q:446:ARG:HB2	1:Q:459:LEU:HB2	1.80	0.63
1:Z:446:ARG:HB2	1:Z:459:LEU:HB2	1.80	0.63
1:d:251:TYR:OH	1:d:371:VAL:O	2.14	0.63
1:u:446:ARG:HB2	1:u:459:LEU:HB2	1.80	0.63
1:8:446:ARG:HB2	1:8:459:LEU:HB2	1.80	0.63
1:D:251:TYR:OH	1:D:371:VAL:O	2.14	0.63
1:W:446:ARG:HB2	1:W:459:LEU:HB2	1.80	0.63
1:k:446:ARG:HB2	1:k:459:LEU:HB2	1.80	0.63
1:2:228[B]:HIS:HD2	1:2:241:THR:HG21	1.61	0.63
1:6:446:ARG:HB2	1:6:459:LEU:HB2	1.80	0.63
1:B:446:ARG:HB2	1:B:459:LEU:HB2	1.80	0.63
1:D:446:ARG:HB2	1:D:459:LEU:HB2	1.80	0.63
1:b:446:ARG:HB2	1:b:459:LEU:HB2	1.80	0.63
1:m:251:TYR:OH	1:m:371:VAL:O	2.14	0.63
1:1:446:ARG:HB2	1:1:459:LEU:HB2	1.80	0.63
1:f:446:ARG:HB2	1:f:459:LEU:HB2	1.80	0.63
1:g:396:TYR:CD1	1:k:229:CYS:SG	2.92	0.63
1:k:251:TYR:OH	1:k:371:VAL:O	2.15	0.63
1:C:396:TYR:CD1	1:D:229:CYS:SG	2.92	0.63
1:H:228[B]:HIS:HD2	1:H:241:THR:HG21	1.61	0.63
1:B:251:TYR:OH	1:B:371:VAL:O	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:396:TYR:CD1	1:c:229:CYS:SG	2.91	0.63
1:e:229:CYS:SG	1:h:396:TYR:CD1	2.91	0.63
1:l:396:TYR:CD1	1:n:229:CYS:SG	2.92	0.63
1:z:396:TYR:CD1	1:4:229:CYS:SG	2.92	0.63
1:5:228[B]:HIS:HD2	1:5:241:THR:HG21	1.61	0.63
1:O:396:TYR:CD1	1:d:229:CYS:SG	2.92	0.63
1:1:251:TYR:OH	1:1:371:VAL:O	2.14	0.63
1:O:446:ARG:HB2	1:O:459:LEU:HB2	1.80	0.63
1:l:446:ARG:HB2	1:l:459:LEU:HB2	1.80	0.63
1:u:251:TYR:OH	1:u:371:VAL:O	2.15	0.63
1:I:251:TYR:OH	1:I:371:VAL:O	2.14	0.63
1:M:620:PRO:O	1:M:625[B]:HIS:NE2	2.30	0.63
1:W:620:PRO:O	1:W:625[B]:HIS:NE2	2.30	0.63
1:e:229:CYS:HG	1:h:396:TYR:HD1	1.37	0.63
1:2:446:ARG:HB2	1:2:459:LEU:HB2	1.80	0.63
1:6:620:PRO:O	1:6:625[B]:HIS:NE2	2.30	0.63
1:J:446:ARG:HB2	1:J:459:LEU:HB2	1.80	0.62
1:Z:251:TYR:OH	1:Z:371:VAL:O	2.15	0.62
1:h:620:PRO:O	1:h:625[B]:HIS:NE2	2.30	0.62
1:u:396:TYR:CD1	1:5:229:CYS:SG	2.91	0.62
1:w:446:ARG:HB2	1:w:459:LEU:HB2	1.80	0.62
1:8:251:TYR:OH	1:8:371:VAL:O	2.14	0.62
1:E:446:ARG:HB2	1:E:459:LEU:HB2	1.80	0.62
1:H:229:CYS:SG	1:I:396:TYR:CD1	2.91	0.62
1:O:251:TYR:OH	1:O:371:VAL:O	2.14	0.62
1:H:446:ARG:HB2	1:H:459:LEU:HB2	1.80	0.62
1:S:229:CYS:SG	1:d:396:TYR:CD1	2.92	0.62
1:p:446:ARG:HB2	1:p:459:LEU:HB2	1.80	0.62
1:2:251:TYR:OH	1:2:371:VAL:O	2.14	0.62
1:5:446:ARG:HB2	1:5:459:LEU:HB2	1.80	0.62
1:V:446:ARG:HB2	1:V:459:LEU:HB2	1.80	0.62
1:F:446:ARG:HB2	1:F:459:LEU:HB2	1.80	0.62
1:G:620:PRO:O	1:G:625[B]:HIS:NE2	2.30	0.62
1:J:251:TYR:OH	1:J:371:VAL:O	2.14	0.62
1:l:251:TYR:OH	1:l:371:VAL:O	2.14	0.62
1:v:251:TYR:OH	1:v:371:VAL:O	2.14	0.62
1:y:446:ARG:HB2	1:y:459:LEU:HB2	1.80	0.62
1:B:620:PRO:O	1:B:625[B]:HIS:NE2	2.30	0.62
1:C:446:ARG:HB2	1:C:459:LEU:HB2	1.80	0.62
1:M:446:ARG:HB2	1:M:459:LEU:HB2	1.80	0.62
1:S:446:ARG:HB2	1:S:459:LEU:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:446:ARG:HB2	1:h:459:LEU:HB2	1.80	0.62
1:j:446:ARG:HB2	1:j:459:LEU:HB2	1.80	0.62
1:t:620:PRO:O	1:t:625[B]:HIS:NE2	2.30	0.62
1:P:446:ARG:HB2	1:P:459:LEU:HB2	1.80	0.62
1:Q:620:PRO:O	1:Q:625[B]:HIS:NE2	2.30	0.62
1:g:446:ARG:HB2	1:g:459:LEU:HB2	1.80	0.62
1:7:620:PRO:O	1:7:625[B]:HIS:NE2	2.30	0.62
1:A:251:TYR:OH	1:A:371:VAL:O	2.14	0.62
1:K:612:GLN:HE22	1:K:723:PRO:HA	1.65	0.62
1:1:620:PRO:O	1:1:625[B]:HIS:NE2	2.30	0.62
1:Y:620:PRO:O	1:Y:625[B]:HIS:NE2	2.30	0.62
1:Z:620:PRO:O	1:Z:625[B]:HIS:NE2	2.30	0.62
1:k:612:GLN:HE22	1:k:723:PRO:HA	1.65	0.62
1:r:446:ARG:HB2	1:r:459:LEU:HB2	1.80	0.62
1:4:612:GLN:HE22	1:4:723:PRO:HA	1.65	0.62
1:8:620:PRO:O	1:8:625[B]:HIS:NE2	2.30	0.62
1:D:612:GLN:HE22	1:D:723:PRO:HA	1.65	0.62
1:G:612:GLN:HE22	1:G:723:PRO:HA	1.65	0.62
1:T:229:CYS:SG	1:U:396:TYR:CD1	2.92	0.62
1:U:446:ARG:HB2	1:U:459:LEU:HB2	1.80	0.62
1:U:612:GLN:HE22	1:U:723:PRO:HA	1.65	0.62
1:x:620:PRO:O	1:x:625[B]:HIS:NE2	2.30	0.62
1:z:612:GLN:HE22	1:z:723:PRO:HA	1.65	0.62
1:L:612:GLN:HE22	1:L:723:PRO:HA	1.65	0.61
1:P:612:GLN:HE22	1:P:723:PRO:HA	1.65	0.61
1:Z:396:TYR:CD1	1:a:229:CYS:SG	2.92	0.61
1:c:612:GLN:HE22	1:c:723:PRO:HA	1.65	0.61
1:e:612:GLN:HE22	1:e:723:PRO:HA	1.65	0.61
1:i:251:TYR:OH	1:i:371:VAL:O	2.14	0.61
1:s:446:ARG:HB2	1:s:459:LEU:HB2	1.80	0.61
1:t:612:GLN:HE22	1:t:723:PRO:HA	1.65	0.61
1:I:229:CYS:SG	1:J:396:TYR:CD1	2.92	0.61
1:N:251:TYR:OH	1:N:371:VAL:O	2.15	0.61
1:Q:293:ARG:NH2	1:R:687:GLU:OE1	2.33	0.61
1:q:687:GLU:OE1	1:x:293:ARG:NH2	2.33	0.61
1:u:229:CYS:SG	1:2:396:TYR:CD1	2.92	0.61
1:2:229:CYS:SG	1:3:396:TYR:CD1	2.92	0.61
1:C:612:GLN:HE22	1:C:723:PRO:HA	1.65	0.61
1:J:612:GLN:HE22	1:J:723:PRO:HA	1.65	0.61
1:g:612:GLN:HE22	1:g:723:PRO:HA	1.65	0.61
1:j:612:GLN:HE22	1:j:723:PRO:HA	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:612:GLN:HE22	1:p:723:PRO:HA	1.65	0.61
1:s:612:GLN:HE22	1:s:723:PRO:HA	1.65	0.61
1:w:612:GLN:HE22	1:w:723:PRO:HA	1.65	0.61
1:2:612:GLN:HE22	1:2:723:PRO:HA	1.65	0.61
1:J:229:CYS:SG	1:a:396:TYR:CD1	2.92	0.61
1:Q:612:GLN:HE22	1:Q:723:PRO:HA	1.65	0.61
1:Y:293:ARG:NH2	1:Z:687:GLU:OE1	2.33	0.61
1:E:612:GLN:HE22	1:E:723:PRO:HA	1.65	0.61
1:V:612:GLN:HE22	1:V:723:PRO:HA	1.65	0.61
1:b:229:CYS:SG	1:o:396:TYR:CD1	2.91	0.61
1:x:251:TYR:OH	1:x:371:VAL:O	2.14	0.61
1:y:251:TYR:OH	1:y:371:VAL:O	2.14	0.61
1:H:396:TYR:CD1	1:Z:229:CYS:SG	2.92	0.61
1:T:251:TYR:OH	1:T:371:VAL:O	2.14	0.61
1:X:396:TYR:CD1	1:f:229:CYS:SG	2.91	0.61
1:x:612:GLN:HE22	1:x:723:PRO:HA	1.65	0.61
1:5:396:TYR:CD1	1:8:229:CYS:SG	2.92	0.61
1:7:612:GLN:HE22	1:7:723:PRO:HA	1.65	0.61
1:N:612:GLN:HE22	1:N:723:PRO:HA	1.65	0.61
1:W:612:GLN:HE22	1:W:723:PRO:HA	1.65	0.61
1:X:620:PRO:O	1:X:625[B]:HIS:NE2	2.30	0.61
1:6:612:GLN:HE22	1:6:723:PRO:HA	1.65	0.61
1:U:687:GLU:OE1	1:V:293:ARG:NH2	2.33	0.61
1:Y:612:GLN:HE22	1:Y:723:PRO:HA	1.65	0.61
1:b:612:GLN:HE22	1:b:723:PRO:HA	1.65	0.61
1:n:612:GLN:HE22	1:n:723:PRO:HA	1.65	0.61
1:p:293:ARG:NH2	1:s:687:GLU:OE1	2.33	0.61
1:r:612:GLN:HE22	1:r:723:PRO:HA	1.65	0.61
1:7:293:ARG:NH2	1:8:687:GLU:OE1	2.34	0.61
1:L:229:CYS:SG	1:b:396:TYR:CD1	2.92	0.61
1:S:612:GLN:HE22	1:S:723:PRO:HA	1.65	0.61
1:W:687:GLU:OE1	1:X:293:ARG:NH2	2.34	0.61
1:Y:338:THR:HG21	1:Y:401:MET:HE2	1.83	0.61
1:f:612:GLN:HE22	1:f:723:PRO:HA	1.65	0.61
1:i:612:GLN:HE22	1:i:723:PRO:HA	1.65	0.61
1:o:293:ARG:NH2	1:6:687:GLU:OE1	2.34	0.61
1:o:620:PRO:O	1:o:625[B]:HIS:NE2	2.30	0.61
1:A:396:TYR:CD1	1:B:229:CYS:SG	2.91	0.61
1:B:338:THR:HG21	1:B:401:MET:HE2	1.83	0.61
1:P:620:PRO:O	1:P:625[B]:HIS:NE2	2.30	0.61
1:S:293:ARG:NH2	1:T:687:GLU:OE1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:338:THR:HG21	1:T:401:MET:HE2	1.83	0.61
1:a:251:TYR:OH	1:a:371:VAL:O	2.14	0.61
1:d:612:GLN:HE22	1:d:723:PRO:HA	1.65	0.61
1:m:612:GLN:HE22	1:m:723:PRO:HA	1.65	0.61
1:m:687:GLU:OE1	1:r:293:ARG:NH2	2.34	0.61
1:p:396:TYR:CD1	1:6:229:CYS:SG	2.92	0.61
1:z:338:THR:HG21	1:z:401:MET:HE2	1.83	0.61
1:3:620:PRO:O	1:3:625[B]:HIS:NE2	2.30	0.61
1:7:338:THR:HG21	1:7:401:MET:HE2	1.83	0.61
1:L:338:THR:HG21	1:L:401:MET:HE2	1.83	0.60
1:P:338:THR:HG21	1:P:401:MET:HE2	1.83	0.60
1:X:612:GLN:HE22	1:X:723:PRO:HA	1.65	0.60
1:h:612:GLN:HE22	1:h:723:PRO:HA	1.65	0.60
1:j:338:THR:HG21	1:j:401:MET:HE2	1.83	0.60
1:m:338:THR:HG21	1:m:401:MET:HE2	1.83	0.60
1:u:338:THR:HG21	1:u:401:MET:HE2	1.83	0.60
1:1:338:THR:HG21	1:1:401:MET:HE2	1.83	0.60
1:I:338:THR:HG21	1:I:401:MET:HE2	1.83	0.60
1:M:612:GLN:HE22	1:M:723:PRO:HA	1.65	0.60
1:S:687:GLU:OE1	1:T:293:ARG:NH2	2.34	0.60
1:T:612:GLN:HE22	1:T:723:PRO:HA	1.65	0.60
1:a:620:PRO:O	1:a:625[B]:HIS:NE2	2.30	0.60
1:j:620:PRO:O	1:j:625[B]:HIS:NE2	2.30	0.60
1:m:293:ARG:NH2	1:r:687:GLU:OE1	2.34	0.60
1:v:612:GLN:HE22	1:v:723:PRO:HA	1.65	0.60
1:2:338:THR:HG21	1:2:401:MET:HE2	1.83	0.60
1:5:338:THR:HG21	1:5:401:MET:HE2	1.83	0.60
1:C:293:ARG:NH2	1:L:687:GLU:OE1	2.33	0.60
1:G:293:ARG:NH2	1:H:687:GLU:OE1	2.33	0.60
1:H:338:THR:HG21	1:H:401:MET:HE2	1.83	0.60
1:J:338:THR:HG21	1:J:401:MET:HE2	1.83	0.60
1:o:612:GLN:HE22	1:o:723:PRO:HA	1.65	0.60
1:A:612:GLN:HE22	1:A:723:PRO:HA	1.65	0.60
1:M:338:THR:HG21	1:M:401:MET:HE2	1.83	0.60
1:O:338:THR:HG21	1:O:401:MET:HE2	1.83	0.60
1:U:338:THR:HG21	1:U:401:MET:HE2	1.83	0.60
1:V:396:TYR:CD1	1:W:229:CYS:SG	2.92	0.60
1:Z:338:THR:HG21	1:Z:401:MET:HE2	1.83	0.60
1:g:293:ARG:NH2	1:z:687:GLU:OE1	2.33	0.60
1:8:338:THR:HG21	1:8:401:MET:HE2	1.83	0.60
1:A:229:CYS:SG	1:E:396:TYR:CD1	2.92	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:ARG:NH2	1:F:687:GLU:OE1	2.34	0.60
1:A:620:PRO:O	1:A:625[B]:HIS:NE2	2.30	0.60
1:G:229:CYS:SG	1:W:396:TYR:CD1	2.92	0.60
1:K:338:THR:HG21	1:K:401:MET:HE2	1.83	0.60
1:l:338:THR:HG21	1:l:401:MET:HE2	1.83	0.60
1:s:338:THR:HG21	1:s:401:MET:HE2	1.83	0.60
1:t:229:CYS:SG	1:6:396:TYR:CD1	2.92	0.60
1:v:620:PRO:O	1:v:625[B]:HIS:NE2	2.30	0.60
1:1:612:GLN:HE22	1:1:723:PRO:HA	1.65	0.60
1:4:338:THR:HG21	1:4:401:MET:HE2	1.83	0.60
1:B:612:GLN:HE22	1:B:723:PRO:HA	1.65	0.60
1:I:612:GLN:HE22	1:I:723:PRO:HA	1.65	0.60
1:h:338:THR:HG21	1:h:401:MET:HE2	1.83	0.60
1:l:612:GLN:HE22	1:l:723:PRO:HA	1.65	0.60
1:u:612:GLN:HE22	1:u:723:PRO:HA	1.65	0.60
1:v:293:ARG:NH2	1:y:687:GLU:OE1	2.34	0.60
1:x:338:THR:HG21	1:x:401:MET:HE2	1.83	0.60
1:3:612:GLN:HE22	1:3:723:PRO:HA	1.65	0.60
1:6:338:THR:HG21	1:6:401:MET:HE2	1.83	0.60
1:H:620:PRO:O	1:H:625[B]:HIS:NE2	2.30	0.60
1:N:338:THR:HG21	1:N:401:MET:HE2	1.83	0.60
1:Q:338:THR:HG21	1:Q:401:MET:HE2	1.83	0.60
1:R:612:GLN:HE22	1:R:723:PRO:HA	1.65	0.60
1:a:612:GLN:HE22	1:a:723:PRO:HA	1.65	0.60
1:g:229:CYS:SG	1:1:396:TYR:CD1	2.92	0.60
1:q:612:GLN:HE22	1:q:723:PRO:HA	1.65	0.60
1:t:293:ARG:NH2	1:5:687:GLU:OE1	2.34	0.60
1:t:526:ASP:OD1	1:t:564:ARG:NH1	2.35	0.60
1:v:229:CYS:SG	1:w:396:TYR:CD1	2.92	0.60
1:5:526:ASP:OD1	1:5:564:ARG:NH1	2.35	0.60
1:D:396:TYR:CD1	1:E:229:CYS:SG	2.92	0.60
1:G:526:ASP:OD1	1:G:564:ARG:NH1	2.35	0.60
1:H:612:GLN:HE22	1:H:723:PRO:HA	1.65	0.60
1:J:526:ASP:OD1	1:J:564:ARG:NH1	2.35	0.60
1:J:687:GLU:OE1	1:K:293:ARG:NH2	2.34	0.60
1:O:612:GLN:HE22	1:O:723:PRO:HA	1.65	0.60
1:S:338:THR:HG21	1:S:401:MET:HE2	1.83	0.60
1:T:620:PRO:O	1:T:625[B]:HIS:NE2	2.30	0.60
1:W:338:THR:HG21	1:W:401:MET:HE2	1.83	0.60
1:k:396:TYR:CD1	1:w:229:CYS:SG	2.92	0.60
1:2:687:GLU:OE1	1:4:293:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:608:ASP:OD1	1:3:609:VAL:N	2.35	0.60
1:H:526:ASP:OD1	1:H:564:ARG:NH1	2.35	0.60
1:M:608:ASP:OD1	1:M:609:VAL:N	2.35	0.60
1:N:687:GLU:OE1	1:O:293:ARG:NH2	2.33	0.60
1:R:526:ASP:OD1	1:R:564:ARG:NH1	2.35	0.60
1:W:526:ASP:OD1	1:W:564:ARG:NH1	2.35	0.60
1:Z:526:ASP:OD1	1:Z:564:ARG:NH1	2.35	0.60
1:a:526:ASP:OD1	1:a:564:ARG:NH1	2.35	0.60
1:a:608:ASP:OD1	1:a:609:VAL:N	2.35	0.60
1:h:526:ASP:OD1	1:h:564:ARG:NH1	2.35	0.60
1:h:608:ASP:OD1	1:h:609:VAL:N	2.35	0.60
1:i:338:THR:HG21	1:i:401:MET:HE2	1.83	0.60
1:l:526:ASP:OD1	1:l:564:ARG:NH1	2.35	0.60
1:m:526:ASP:OD1	1:m:564:ARG:NH1	2.35	0.60
1:q:229:CYS:SG	1:y:396:TYR:CD1	2.91	0.60
1:r:338:THR:HG21	1:r:401:MET:HE2	1.83	0.60
1:K:526:ASP:OD1	1:K:564:ARG:NH1	2.35	0.60
1:K:608:ASP:OD1	1:K:609:VAL:N	2.35	0.60
1:M:526:ASP:OD1	1:M:564:ARG:NH1	2.35	0.60
1:O:526:ASP:OD1	1:O:564:ARG:NH1	2.35	0.60
1:T:526:ASP:OD1	1:T:564:ARG:NH1	2.35	0.60
1:b:608:ASP:OD1	1:b:609:VAL:N	2.35	0.60
1:c:396:TYR:CD1	1:s:229:CYS:SG	2.92	0.60
1:c:526:ASP:OD1	1:c:564:ARG:NH1	2.35	0.60
1:c:608:ASP:OD1	1:c:609:VAL:N	2.35	0.60
1:e:608:ASP:OD1	1:e:609:VAL:N	2.35	0.60
1:f:608:ASP:OD1	1:f:609:VAL:N	2.35	0.60
1:q:526:ASP:OD1	1:q:564:ARG:NH1	2.35	0.60
1:2:526:ASP:OD1	1:2:564:ARG:NH1	2.35	0.60
1:3:526:ASP:OD1	1:3:564:ARG:NH1	2.35	0.60
1:4:526:ASP:OD1	1:4:564:ARG:NH1	2.35	0.60
1:5:612:GLN:HE22	1:5:723:PRO:HA	1.65	0.60
1:5:620:PRO:O	1:5:625[B]:HIS:NE2	2.30	0.60
1:6:526:ASP:OD1	1:6:564:ARG:NH1	2.35	0.60
1:8:526:ASP:OD1	1:8:564:ARG:NH1	2.35	0.60
1:A:338:THR:HG21	1:A:401:MET:HE2	1.83	0.59
1:B:396:TYR:CD1	1:C:229:CYS:SG	2.92	0.59
1:F:396:TYR:CD1	1:R:229:CYS:SG	2.91	0.59
1:I:608:ASP:OD1	1:I:609:VAL:N	2.35	0.59
1:J:608:ASP:OD1	1:J:609:VAL:N	2.35	0.59
1:V:526:ASP:OD1	1:V:564:ARG:NH1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:608:ASP:OD1	1:V:609:VAL:N	2.35	0.59
1:Z:608:ASP:OD1	1:Z:609:VAL:N	2.35	0.59
1:a:293:ARG:NH2	1:3:687:GLU:OE1	2.34	0.59
1:a:687:GLU:OE1	1:3:293:ARG:NH2	2.34	0.59
1:e:526:ASP:OD1	1:e:564:ARG:NH1	2.35	0.59
1:i:687:GLU:OE1	1:l:293:ARG:NH2	2.33	0.59
1:p:526:ASP:OD1	1:p:564:ARG:NH1	2.35	0.59
1:u:526:ASP:OD1	1:u:564:ARG:NH1	2.35	0.59
1:4:608:ASP:OD1	1:4:609:VAL:N	2.35	0.59
1:8:608:ASP:OD1	1:8:609:VAL:N	2.35	0.59
1:D:608:ASP:OD1	1:D:609:VAL:N	2.35	0.59
1:I:526:ASP:OD1	1:I:564:ARG:NH1	2.35	0.59
1:I:620:PRO:O	1:I:625[B]:HIS:NE2	2.30	0.59
1:L:526:ASP:OD1	1:L:564:ARG:NH1	2.35	0.59
1:L:608:ASP:OD1	1:L:609:VAL:N	2.35	0.59
1:V:338:THR:HG21	1:V:401:MET:HE2	1.83	0.59
1:Y:608:ASP:OD1	1:Y:609:VAL:N	2.35	0.59
1:d:526:ASP:OD1	1:d:564:ARG:NH1	2.35	0.59
1:i:526:ASP:OD1	1:i:564:ARG:NH1	2.35	0.59
1:j:526:ASP:OD1	1:j:564:ARG:NH1	2.35	0.59
1:k:608:ASP:OD1	1:k:609:VAL:N	2.35	0.59
1:m:620:PRO:O	1:m:625[B]:HIS:NE2	2.30	0.59
1:p:229:CYS:SG	1:q:396:TYR:CD1	2.92	0.59
1:p:338:THR:HG21	1:p:401:MET:HE2	1.83	0.59
1:p:608:ASP:OD1	1:p:609:VAL:N	2.35	0.59
1:u:608:ASP:OD1	1:u:609:VAL:N	2.35	0.59
1:v:526:ASP:OD1	1:v:564:ARG:NH1	2.35	0.59
1:v:608:ASP:OD1	1:v:609:VAL:N	2.35	0.59
1:w:338:THR:HG21	1:w:401:MET:HE2	1.83	0.59
1:z:526:ASP:OD1	1:z:564:ARG:NH1	2.35	0.59
1:z:608:ASP:OD1	1:z:609:VAL:N	2.35	0.59
1:2:608:ASP:OD1	1:2:609:VAL:N	2.35	0.59
1:7:608:ASP:OD1	1:7:609:VAL:N	2.35	0.59
1:A:526:ASP:OD1	1:A:564:ARG:NH1	2.35	0.59
1:A:608:ASP:OD1	1:A:609:VAL:N	2.35	0.59
1:C:620:PRO:O	1:C:625[B]:HIS:NE2	2.30	0.59
1:E:338:THR:HG21	1:E:401:MET:HE2	1.83	0.59
1:H:608:ASP:OD1	1:H:609:VAL:N	2.35	0.59
1:N:526:ASP:OD1	1:N:564:ARG:NH1	2.35	0.59
1:P:526:ASP:OD1	1:P:564:ARG:NH1	2.35	0.59
1:R:608:ASP:OD1	1:R:609:VAL:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:608:ASP:OD1	1:S:609:VAL:N	2.35	0.59
1:W:608:ASP:OD1	1:W:609:VAL:N	2.35	0.59
1:d:608:ASP:OD1	1:d:609:VAL:N	2.35	0.59
1:i:293:ARG:NH2	1:l:687:GLU:OE1	2.34	0.59
1:j:396:TYR:CD1	1:l:229:CYS:SG	2.92	0.59
1:n:526:ASP:OD1	1:n:564:ARG:NH1	2.35	0.59
1:q:608:ASP:OD1	1:q:609:VAL:N	2.35	0.59
1:r:608:ASP:OD1	1:r:609:VAL:N	2.35	0.59
1:v:338:THR:HG21	1:v:401:MET:HE2	1.83	0.59
1:5:608:ASP:OD1	1:5:609:VAL:N	2.35	0.59
1:6:608:ASP:OD1	1:6:609:VAL:N	2.35	0.59
1:C:338:THR:HG21	1:C:401:MET:HE2	1.83	0.59
1:C:608:ASP:OD1	1:C:609:VAL:N	2.35	0.59
1:D:620:PRO:O	1:D:625[B]:HIS:NE2	2.30	0.59
1:F:608:ASP:OD1	1:F:609:VAL:N	2.35	0.59
1:N:293:ARG:NH2	1:O:687:GLU:OE1	2.34	0.59
1:T:608:ASP:OD1	1:T:609:VAL:N	2.35	0.59
1:U:608:ASP:OD1	1:U:609:VAL:N	2.35	0.59
1:f:338:THR:HG21	1:f:401:MET:HE2	1.83	0.59
1:m:608:ASP:OD1	1:m:609:VAL:N	2.35	0.59
1:n:338:THR:HG21	1:n:401:MET:HE2	1.83	0.59
1:y:612:GLN:HE22	1:y:723:PRO:HA	1.65	0.59
1:1:526:ASP:OD1	1:1:564:ARG:NH1	2.35	0.59
1:E:526:ASP:OD1	1:E:564:ARG:NH1	2.35	0.59
1:E:687:GLU:OE1	1:P:293:ARG:NH2	2.34	0.59
1:F:612:GLN:HE22	1:F:723:PRO:HA	1.65	0.59
1:O:229:CYS:SG	1:P:396:TYR:CD1	2.92	0.59
1:b:338:THR:HG21	1:b:401:MET:HE2	1.83	0.59
1:g:526:ASP:OD1	1:g:564:ARG:NH1	2.35	0.59
1:n:608:ASP:OD1	1:n:609:VAL:N	2.35	0.59
1:y:608:ASP:OD1	1:y:609:VAL:N	2.35	0.59
1:4:620:PRO:O	1:4:625[B]:HIS:NE2	2.30	0.59
1:7:526:ASP:OD1	1:7:564:ARG:NH1	2.35	0.59
1:B:526:ASP:OD1	1:B:564:ARG:NH1	2.35	0.59
1:C:526:ASP:OD1	1:C:564:ARG:NH1	2.35	0.59
1:M:229:CYS:SG	1:N:396:TYR:CD1	2.92	0.59
1:U:526:ASP:OD1	1:U:564:ARG:NH1	2.35	0.59
1:X:608:ASP:OD1	1:X:609:VAL:N	2.35	0.59
1:Y:526:ASP:OD1	1:Y:564:ARG:NH1	2.35	0.59
1:Z:612:GLN:HE22	1:Z:723:PRO:HA	1.65	0.59
1:g:338:THR:HG21	1:g:401:MET:HE2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:608:ASP:OD1	1:g:609:VAL:N	2.35	0.59
1:g:620:PRO:O	1:g:625[B]:HIS:NE2	2.30	0.59
1:s:526:ASP:OD1	1:s:564:ARG:NH1	2.35	0.59
1:s:608:ASP:OD1	1:s:609:VAL:N	2.35	0.59
1:u:620:PRO:O	1:u:625[B]:HIS:NE2	2.30	0.59
1:y:338:THR:HG21	1:y:401:MET:HE2	1.83	0.59
1:E:608:ASP:OD1	1:E:609:VAL:N	2.35	0.59
1:K:620:PRO:O	1:K:625[B]:HIS:NE2	2.30	0.59
1:L:620:PRO:O	1:L:625[B]:HIS:NE2	2.30	0.59
1:O:608:ASP:OD1	1:O:609:VAL:N	2.35	0.59
1:O:620:PRO:O	1:O:625[B]:HIS:NE2	2.30	0.59
1:R:338:THR:HG21	1:R:401:MET:HE2	1.83	0.59
1:S:526:ASP:OD1	1:S:564:ARG:NH1	2.35	0.59
1:X:338:THR:HG21	1:X:401:MET:HE2	1.83	0.59
1:b:526:ASP:OD1	1:b:564:ARG:NH1	2.35	0.59
1:d:338:THR:HG21	1:d:401:MET:HE2	1.83	0.59
1:e:687:GLU:OE1	1:f:293:ARG:NH2	2.34	0.59
1:f:526:ASP:OD1	1:f:564:ARG:NH1	2.35	0.59
1:j:293:ARG:NH2	1:w:687:GLU:OE1	2.35	0.59
1:k:620:PRO:O	1:k:625[B]:HIS:NE2	2.30	0.59
1:l:608:ASP:OD1	1:l:609:VAL:N	2.35	0.59
1:l:620:PRO:O	1:l:625[B]:HIS:NE2	2.30	0.59
1:o:338:THR:HG21	1:o:401:MET:HE2	1.83	0.59
1:o:608:ASP:OD1	1:o:609:VAL:N	2.35	0.59
1:q:338:THR:HG21	1:q:401:MET:HE2	1.83	0.59
1:r:526:ASP:OD1	1:r:564:ARG:NH1	2.35	0.59
1:w:526:ASP:OD1	1:w:564:ARG:NH1	2.35	0.59
1:w:608:ASP:OD1	1:w:609:VAL:N	2.35	0.59
1:x:526:ASP:OD1	1:x:564:ARG:NH1	2.35	0.59
1:F:338:THR:HG21	1:F:401:MET:HE2	1.83	0.59
1:F:526:ASP:OD1	1:F:564:ARG:NH1	2.35	0.59
1:Q:526:ASP:OD1	1:Q:564:ARG:NH1	2.35	0.59
1:e:338:THR:HG21	1:e:401:MET:HE2	1.83	0.59
1:j:229:CYS:SG	1:x:396:TYR:CD1	2.91	0.59
1:y:526:ASP:OD1	1:y:564:ARG:NH1	2.35	0.59
1:B:687:GLU:OE1	1:I:293:ARG:NH2	2.33	0.59
1:P:608:ASP:OD1	1:P:609:VAL:N	2.35	0.59
1:Q:687:GLU:OE1	1:R:293:ARG:NH2	2.34	0.59
1:U:293:ARG:NH2	1:V:687:GLU:OE1	2.34	0.59
1:b:293:ARG:NH2	1:c:687:GLU:OE1	2.34	0.59
1:j:608:ASP:OD1	1:j:609:VAL:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:687:GLU:OE1	1:s:293:ARG:NH2	2.34	0.59
1:v:223:SER:H	1:w:406:ASN:HD21	1.51	0.59
1:v:687:GLU:OE1	1:y:293:ARG:NH2	2.34	0.59
1:3:338:THR:HG21	1:3:401:MET:HE2	1.83	0.59
1:8:612:GLN:HE22	1:8:723:PRO:HA	1.65	0.59
1:M:223:SER:H	1:N:406:ASN:HD21	1.51	0.59
1:X:223:SER:H	1:Y:406:ASN:HD21	1.51	0.59
1:a:338:THR:HG21	1:a:401:MET:HE2	1.83	0.59
1:c:338:THR:HG21	1:c:401:MET:HE2	1.83	0.59
1:h:223:SER:H	1:i:406:ASN:HD21	1.51	0.59
1:q:293:ARG:NH2	1:x:687:GLU:OE1	2.34	0.59
1:t:406:ASN:HD21	1:y:223:SER:H	1.51	0.59
1:x:608:ASP:OD1	1:x:609:VAL:N	2.35	0.59
1:z:620:PRO:O	1:z:625[B]:HIS:NE2	2.30	0.59
1:A:223:SER:H	1:E:406:ASN:HD21	1.51	0.58
1:B:406:ASN:HD21	1:C:223:SER:H	1.51	0.58
1:J:620:PRO:O	1:J:625[B]:HIS:NE2	2.30	0.58
1:N:608:ASP:OD1	1:N:609:VAL:N	2.35	0.58
1:P:229:CYS:SG	1:Q:396:TYR:CD1	2.91	0.58
1:Q:608:ASP:OD1	1:Q:609:VAL:N	2.35	0.58
1:X:526:ASP:OD1	1:X:564:ARG:NH1	2.35	0.58
1:d:620:PRO:O	1:d:625[B]:HIS:NE2	2.30	0.58
1:h:293:ARG:NH2	1:k:687:GLU:OE1	2.34	0.58
1:i:608:ASP:OD1	1:i:609:VAL:N	2.35	0.58
1:o:223:SER:H	1:7:406:ASN:HD21	1.51	0.58
1:r:620:PRO:O	1:r:625[B]:HIS:NE2	2.30	0.58
1:u:293:ARG:NH2	1:1:687:GLU:OE1	2.33	0.58
1:2:620:PRO:O	1:2:625[B]:HIS:NE2	2.30	0.58
1:D:687:GLU:OE1	1:M:293:ARG:NH2	2.34	0.58
1:c:620:PRO:O	1:c:625[B]:HIS:NE2	2.30	0.58
1:n:396:TYR:CD1	1:r:229:CYS:SG	2.92	0.58
1:o:526:ASP:OD1	1:o:564:ARG:NH1	2.35	0.58
1:w:620:PRO:O	1:w:625[B]:HIS:NE2	2.30	0.58
1:1:608:ASP:OD1	1:1:609:VAL:N	2.35	0.58
1:E:620:PRO:O	1:E:625[B]:HIS:NE2	2.30	0.58
1:F:223:SER:H	1:G:406:ASN:HD21	1.51	0.58
1:G:608:ASP:OD1	1:G:609:VAL:N	2.35	0.58
1:O:223:SER:H	1:P:406:ASN:HD21	1.52	0.58
1:b:687:GLU:OE1	1:c:293:ARG:NH2	2.34	0.58
1:g:223:SER:H	1:1:406:ASN:HD21	1.52	0.58
1:n:620:PRO:O	1:n:625[B]:HIS:NE2	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:608:ASP:OD1	1:t:609:VAL:N	2.35	0.58
1:A:687:GLU:OE1	1:F:293:ARG:NH2	2.35	0.58
1:B:293:ARG:NH2	1:I:687:GLU:OE1	2.34	0.58
1:B:608:ASP:OD1	1:B:609:VAL:N	2.35	0.58
1:D:338:THR:HG21	1:D:401:MET:HE2	1.83	0.58
1:D:526:ASP:OD1	1:D:564:ARG:NH1	2.35	0.58
1:Y:229:CYS:SG	1:4:396:TYR:CD1	2.92	0.58
1:j:406:ASN:HD21	1:l:223:SER:H	1.52	0.58
1:k:338:THR:HG21	1:k:401:MET:HE2	1.83	0.58
1:k:526:ASP:OD1	1:k:564:ARG:NH1	2.35	0.58
1:t:338:THR:HG21	1:t:401:MET:HE2	1.83	0.58
1:5:406:ASN:HD21	1:8:223:SER:H	1.52	0.58
1:G:338:THR:HG21	1:G:401:MET:HE2	1.83	0.58
1:I:223:SER:H	1:J:406:ASN:HD21	1.51	0.58
1:S:223:SER:H	1:d:406:ASN:HD21	1.52	0.58
1:S:620:PRO:O	1:S:625[B]:HIS:NE2	2.30	0.58
1:e:293:ARG:NH2	1:f:687:GLU:OE1	2.34	0.58
1:n:406:ASN:HD21	1:r:223:SER:H	1.52	0.58
1:u:223:SER:H	1:2:406:ASN:HD21	1.51	0.58
1:e:620:PRO:O	1:e:625[B]:HIS:NE2	2.30	0.58
1:u:687:GLU:OE1	1:1:293:ARG:NH2	2.34	0.58
1:H:406:ASN:HD21	1:Z:223:SER:H	1.51	0.58
1:E:293:ARG:NH2	1:P:687:GLU:OE1	2.34	0.58
1:K:396:TYR:CD1	1:7:229:CYS:SG	2.92	0.58
1:U:620:PRO:O	1:U:625[B]:HIS:NE2	2.30	0.58
1:s:620:PRO:O	1:s:625[B]:HIS:NE2	2.30	0.58
1:j:687:GLU:OE1	1:w:293:ARG:NH2	2.34	0.58
1:Y:223:SER:H	1:4:406:ASN:HD21	1.52	0.58
1:j:223:SER:H	1:x:406:ASN:HD21	1.52	0.58
1:G:687:GLU:OE1	1:H:293:ARG:NH2	2.34	0.57
1:N:620:PRO:O	1:N:625[B]:HIS:NE2	2.30	0.57
1:P:223:SER:H	1:Q:406:ASN:HD21	1.52	0.57
1:X:406:ASN:HD21	1:f:223:SER:H	1.52	0.57
1:Y:687:GLU:OE1	1:Z:293:ARG:NH2	2.33	0.57
1:b:223:SER:H	1:o:406:ASN:HD21	1.52	0.57
1:i:620:PRO:O	1:i:625[B]:HIS:NE2	2.30	0.57
1:7:687:GLU:OE1	1:8:293:ARG:NH2	2.33	0.57
1:A:560:GLU:O	1:A:563:ILE:HG12	2.05	0.57
1:C:687:GLU:OE1	1:L:293:ARG:NH2	2.34	0.57
1:K:406:ASN:HD21	1:7:223:SER:H	1.52	0.57
1:X:560:GLU:O	1:X:563:ILE:HG12	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:560:GLU:O	1:o:563:ILE:HG12	2.05	0.57
1:v:560:GLU:O	1:v:563:ILE:HG12	2.05	0.57
1:D:293:ARG:NH2	1:M:687:GLU:OE1	2.34	0.57
1:H:276:THR:OG1	1:H:374:TYR:O	2.21	0.57
1:I:560:GLU:O	1:I:563:ILE:HG12	2.05	0.57
1:N:560:GLU:O	1:N:563:ILE:HG12	2.05	0.57
1:b:620:PRO:O	1:b:625[B]:HIS:NE2	2.30	0.57
1:f:620:PRO:O	1:f:625[B]:HIS:NE2	2.30	0.57
1:g:687:GLU:OE1	1:z:293:ARG:NH2	2.34	0.57
1:i:560:GLU:O	1:i:563:ILE:HG12	2.05	0.57
1:u:560:GLU:O	1:u:563:ILE:HG12	2.05	0.57
1:Y:560:GLU:O	1:Y:563:ILE:HG12	2.05	0.57
1:h:687:GLU:OE1	1:k:293:ARG:NH2	2.34	0.57
1:r:396:TYR:CD1	1:x:229:CYS:SG	2.92	0.57
1:t:276:THR:OG1	1:t:374:TYR:O	2.20	0.57
1:t:560:GLU:O	1:t:563:ILE:HG12	2.05	0.57
1:w:560:GLU:O	1:w:563:ILE:HG12	2.05	0.57
1:2:560:GLU:O	1:2:563:ILE:HG12	2.05	0.57
1:7:560:GLU:O	1:7:563:ILE:HG12	2.05	0.57
1:E:560:GLU:O	1:E:563:ILE:HG12	2.05	0.57
1:G:276:THR:OG1	1:G:374:TYR:O	2.20	0.57
1:G:560:GLU:O	1:G:563:ILE:HG12	2.05	0.57
1:J:560:GLU:O	1:J:563:ILE:HG12	2.05	0.57
1:M:406:ASN:HD21	1:c:223:SER:H	1.52	0.57
1:Q:223:SER:H	1:S:406:ASN:HD21	1.51	0.57
1:b:560:GLU:O	1:b:563:ILE:HG12	2.05	0.57
1:e:223:SER:H	1:h:406:ASN:HD21	1.52	0.57
1:f:560:GLU:O	1:f:563:ILE:HG12	2.05	0.57
1:m:560:GLU:O	1:m:563:ILE:HG12	2.05	0.57
1:r:406:ASN:HD21	1:x:223:SER:H	1.51	0.57
1:t:687:GLU:OE1	1:5:293:ARG:NH2	2.34	0.57
1:1:322:VAL:HG22	1:1:331:ILE:HG12	1.87	0.57
1:B:560:GLU:O	1:B:563:ILE:HG12	2.05	0.57
1:M:322:VAL:HG22	1:M:331:ILE:HG12	1.87	0.57
1:Q:229:CYS:SG	1:S:396:TYR:CD1	2.92	0.57
1:R:560:GLU:O	1:R:563:ILE:HG12	2.05	0.57
1:S:560:GLU:O	1:S:563:ILE:HG12	2.05	0.57
1:T:560:GLU:O	1:T:563:ILE:HG12	2.05	0.57
1:Z:560:GLU:O	1:Z:563:ILE:HG12	2.05	0.57
1:h:322:VAL:HG22	1:h:331:ILE:HG12	1.87	0.57
1:m:223:SER:H	1:s:406:ASN:HD21	1.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:560:GLU:O	1:q:563:ILE:HG12	2.05	0.57
1:r:560:GLU:O	1:r:563:ILE:HG12	2.05	0.57
1:1:560:GLU:O	1:1:563:ILE:HG12	2.05	0.57
1:8:560:GLU:O	1:8:563:ILE:HG12	2.05	0.57
1:B:322:VAL:HG22	1:B:331:ILE:HG12	1.87	0.57
1:C:560:GLU:O	1:C:563:ILE:HG12	2.05	0.57
1:J:293:ARG:NH2	1:K:687:GLU:OE1	2.34	0.57
1:K:229:CYS:SG	1:L:396:TYR:CD1	2.92	0.57
1:Q:560:GLU:O	1:Q:563:ILE:HG12	2.05	0.57
1:T:223:SER:H	1:U:406:ASN:HD21	1.51	0.57
1:W:293:ARG:NH2	1:X:687:GLU:OE1	2.34	0.57
1:f:322:VAL:HG22	1:f:331:ILE:HG12	1.87	0.57
1:g:560:GLU:O	1:g:563:ILE:HG12	2.05	0.57
1:o:687:GLU:OE1	1:6:293:ARG:NH2	2.34	0.57
1:y:560:GLU:O	1:y:563:ILE:HG12	2.05	0.57
1:2:293:ARG:NH2	1:4:687:GLU:OE1	2.34	0.57
1:4:560:GLU:O	1:4:563:ILE:HG12	2.05	0.57
1:D:406:ASN:HD21	1:E:223:SER:H	1.52	0.57
1:F:560:GLU:O	1:F:563:ILE:HG12	2.05	0.57
1:H:560:GLU:O	1:H:563:ILE:HG12	2.05	0.57
1:K:560:GLU:O	1:K:563:ILE:HG12	2.05	0.57
1:O:322:VAL:HG22	1:O:331:ILE:HG12	1.87	0.57
1:Y:322:VAL:HG22	1:Y:331:ILE:HG12	1.87	0.57
1:b:322:VAL:HG22	1:b:331:ILE:HG12	1.87	0.57
1:l:322:VAL:HG22	1:l:331:ILE:HG12	1.87	0.57
1:x:560:GLU:O	1:x:563:ILE:HG12	2.05	0.57
1:z:560:GLU:O	1:z:563:ILE:HG12	2.05	0.57
1:2:223:SER:H	1:3:406:ASN:HD21	1.52	0.57
1:5:560:GLU:O	1:5:563:ILE:HG12	2.05	0.57
1:6:560:GLU:O	1:6:563:ILE:HG12	2.05	0.57
1:7:322:VAL:HG22	1:7:331:ILE:HG12	1.87	0.57
1:C:406:ASN:HD21	1:D:223:SER:H	1.52	0.57
1:G:223:SER:H	1:W:406:ASN:HD21	1.52	0.57
1:J:223:SER:H	1:a:406:ASN:HD21	1.52	0.57
1:L:560:GLU:O	1:L:563:ILE:HG12	2.05	0.57
1:R:406:ASN:HD21	1:V:223:SER:H	1.51	0.57
1:W:560:GLU:O	1:W:563:ILE:HG12	2.05	0.57
1:d:322:VAL:HG22	1:d:331:ILE:HG12	1.87	0.57
1:n:560:GLU:O	1:n:563:ILE:HG12	2.05	0.57
1:p:223:SER:H	1:q:406:ASN:HD21	1.51	0.57
1:8:322:VAL:HG22	1:8:331:ILE:HG12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:620:PRO:O	1:F:625[B]:HIS:NE2	2.30	0.56
1:G:322:VAL:HG22	1:G:331:ILE:HG12	1.87	0.56
1:M:560:GLU:O	1:M:563:ILE:HG12	2.05	0.56
1:R:427:GLN:NE2	1:S:350:PRO:HB3	2.20	0.56
1:U:322:VAL:HG22	1:U:331:ILE:HG12	1.87	0.56
1:Z:322:VAL:HG22	1:Z:331:ILE:HG12	1.87	0.56
1:f:406:ASN:HD21	1:z:223:SER:H	1.52	0.56
1:k:406:ASN:HD21	1:w:223:SER:H	1.52	0.56
1:n:322:VAL:HG22	1:n:331:ILE:HG12	1.87	0.56
1:s:322:VAL:HG22	1:s:331:ILE:HG12	1.87	0.56
1:F:406:ASN:HD21	1:R:223:SER:H	1.52	0.56
1:L:223:SER:H	1:b:406:ASN:HD21	1.52	0.56
1:R:620:PRO:O	1:R:625[B]:HIS:NE2	2.30	0.56
1:V:620:PRO:O	1:V:625[B]:HIS:NE2	2.30	0.56
1:X:322:VAL:HG22	1:X:331:ILE:HG12	1.87	0.56
1:d:560:GLU:O	1:d:563:ILE:HG12	2.05	0.56
1:g:350:PRO:HB3	1:h:427:GLN:NE2	2.20	0.56
1:g:406:ASN:HD21	1:k:223:SER:H	1.52	0.56
1:q:223:SER:H	1:y:406:ASN:HD21	1.52	0.56
1:q:427:GLN:NE2	1:r:350:PRO:HB3	2.20	0.56
1:u:427:GLN:NE2	1:v:350:PRO:HB3	2.21	0.56
1:z:322:VAL:HG22	1:z:331:ILE:HG12	1.87	0.56
1:5:322:VAL:HG22	1:5:331:ILE:HG12	1.87	0.56
1:A:350:PRO:HB3	1:I:427:GLN:NE2	2.21	0.56
1:B:228[B]:HIS:CD2	1:B:241:THR:HG21	2.41	0.56
1:C:350:PRO:HB3	1:M:427:GLN:NE2	2.20	0.56
1:C:427:GLN:NE2	1:b:350:PRO:HB3	2.21	0.56
1:D:560:GLU:O	1:D:563:ILE:HG12	2.05	0.56
1:E:350:PRO:HB3	1:F:427:GLN:NE2	2.21	0.56
1:F:350:PRO:HB3	1:Q:427:GLN:NE2	2.20	0.56
1:H:322:VAL:HG22	1:H:331:ILE:HG12	1.87	0.56
1:H:350:PRO:HB3	1:Y:427:GLN:NE2	2.21	0.56
1:H:427:GLN:NE2	1:W:350:PRO:HB3	2.21	0.56
1:I:228[B]:HIS:CD2	1:I:241:THR:HG21	2.41	0.56
1:I:322:VAL:HG22	1:I:331:ILE:HG12	1.87	0.56
1:O:406:ASN:HD21	1:d:223:SER:H	1.52	0.56
1:P:560:GLU:O	1:P:563:ILE:HG12	2.05	0.56
1:T:427:GLN:NE2	1:d:350:PRO:HB3	2.21	0.56
1:V:350:PRO:HB3	1:X:427:GLN:NE2	2.20	0.56
1:a:560:GLU:O	1:a:563:ILE:HG12	2.05	0.56
1:c:228[B]:HIS:CD2	1:c:241:THR:HG21	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:560:GLU:O	1:c:563:ILE:HG12	2.05	0.56
1:d:293:ARG:NH2	1:n:687:GLU:OE1	2.34	0.56
1:d:687:GLU:OE1	1:n:293:ARG:NH2	2.34	0.56
1:e:228[B]:HIS:CD2	1:e:241:THR:HG21	2.40	0.56
1:e:560:GLU:O	1:e:563:ILE:HG12	2.05	0.56
1:f:350:PRO:HB3	1:g:427:GLN:NE2	2.21	0.56
1:h:560:GLU:O	1:h:563:ILE:HG12	2.05	0.56
1:j:322:VAL:HG22	1:j:331:ILE:HG12	1.87	0.56
1:k:560:GLU:O	1:k:563:ILE:HG12	2.05	0.56
1:l:406:ASN:HD21	1:n:223:SER:H	1.52	0.56
1:l:560:GLU:O	1:l:563:ILE:HG12	2.05	0.56
1:m:427:GLN:NE2	1:n:350:PRO:HB3	2.21	0.56
1:o:322:VAL:HG22	1:o:331:ILE:HG12	1.87	0.56
1:o:427:GLN:NE2	1:p:350:PRO:HB3	2.20	0.56
1:q:620:PRO:O	1:q:625[B]:HIS:NE2	2.30	0.56
1:t:223:SER:H	1:6:406:ASN:HD21	1.52	0.56
1:t:322:VAL:HG22	1:t:331:ILE:HG12	1.87	0.56
1:w:228[B]:HIS:CD2	1:w:241:THR:HG21	2.40	0.56
1:w:350:PRO:HB3	1:y:427:GLN:NE2	2.20	0.56
1:x:427:GLN:NE2	1:y:350:PRO:HB3	2.20	0.56
1:1:228[B]:HIS:CD2	1:1:241:THR:HG21	2.41	0.56
1:3:560:GLU:O	1:3:563:ILE:HG12	2.05	0.56
1:5:350:PRO:HB3	1:7:427:GLN:NE2	2.21	0.56
1:5:427:GLN:NE2	1:6:350:PRO:HB3	2.21	0.56
1:B:350:PRO:HB3	1:L:427:GLN:NE2	2.20	0.56
1:D:228[B]:HIS:CD2	1:D:241:THR:HG21	2.41	0.56
1:E:228[B]:HIS:CD2	1:E:241:THR:HG21	2.41	0.56
1:L:322:VAL:HG22	1:L:331:ILE:HG12	1.87	0.56
1:N:223:SER:H	1:m:406:ASN:HD21	1.52	0.56
1:O:350:PRO:HB3	1:n:427:GLN:NE2	2.21	0.56
1:k:228[B]:HIS:CD2	1:k:241:THR:HG21	2.41	0.56
1:r:322:VAL:HG22	1:r:331:ILE:HG12	1.87	0.56
1:u:228[B]:HIS:CD2	1:u:241:THR:HG21	2.41	0.56
1:y:620:PRO:O	1:y:625[B]:HIS:NE2	2.30	0.56
1:z:427:GLN:NE2	1:1:350:PRO:HB3	2.21	0.56
1:G:427:GLN:NE2	1:I:350:PRO:HB3	2.21	0.56
1:N:229:CYS:SG	1:m:396:TYR:CD1	2.92	0.56
1:P:322:VAL:HG22	1:P:331:ILE:HG12	1.87	0.56
1:S:322:VAL:HG22	1:S:331:ILE:HG12	1.87	0.56
1:S:427:GLN:NE2	1:U:350:PRO:HB3	2.21	0.56
1:V:406:ASN:HD21	1:W:223:SER:H	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:560:GLU:O	1:V:563:ILE:HG12	2.05	0.56
1:c:406:ASN:HD21	1:s:223:SER:H	1.52	0.56
1:j:560:GLU:O	1:j:563:ILE:HG12	2.05	0.56
1:l:228[B]:HIS:CD2	1:l:241:THR:HG21	2.40	0.56
1:p:620:PRO:O	1:p:625[B]:HIS:NE2	2.30	0.56
1:r:427:GLN:NE2	1:s:350:PRO:HB3	2.21	0.56
1:t:427:GLN:NE2	1:u:350:PRO:HB3	2.21	0.56
1:u:322:VAL:HG22	1:u:331:ILE:HG12	1.87	0.56
1:E:427:GLN:NE2	1:Q:350:PRO:HB3	2.21	0.56
1:F:228[B]:HIS:CD2	1:F:241:THR:HG21	2.41	0.56
1:N:322:VAL:HG22	1:N:331:ILE:HG12	1.87	0.56
1:O:560:GLU:O	1:O:563:ILE:HG12	2.05	0.56
1:T:396:TYR:CD1	1:i:229:CYS:SG	2.92	0.56
1:U:223:SER:H	1:e:406:ASN:HD21	1.52	0.56
1:Z:427:GLN:NE2	1:4:350:PRO:HB3	2.20	0.56
1:a:427:GLN:NE2	1:8:350:PRO:HB3	2.21	0.56
1:c:322:VAL:HG22	1:c:331:ILE:HG12	1.87	0.56
1:d:427:GLN:NE2	1:l:350:PRO:HB3	2.21	0.56
1:g:322:VAL:HG22	1:g:331:ILE:HG12	1.87	0.56
1:h:276:THR:OG1	1:h:374:TYR:O	2.20	0.56
1:i:322:VAL:HG22	1:i:331:ILE:HG12	1.87	0.56
1:p:406:ASN:HD21	1:6:223:SER:H	1.52	0.56
1:p:560:GLU:O	1:p:563:ILE:HG12	2.05	0.56
1:t:228[B]:HIS:CD2	1:t:241:THR:HG21	2.41	0.56
1:u:406:ASN:HD21	1:5:223:SER:H	1.52	0.56
1:y:228[B]:HIS:CD2	1:y:241:THR:HG21	2.41	0.56
1:A:406:ASN:HD21	1:B:223:SER:H	1.52	0.56
1:G:228[B]:HIS:CD2	1:G:241:THR:HG21	2.41	0.56
1:N:228[B]:HIS:CD2	1:N:241:THR:HG21	2.41	0.56
1:N:427:GLN:NE2	1:P:350:PRO:HB3	2.21	0.56
1:O:228[B]:HIS:CD2	1:O:241:THR:HG21	2.41	0.56
1:R:350:PRO:HB3	1:U:427:GLN:NE2	2.21	0.56
1:T:350:PRO:HB3	1:l:427:GLN:NE2	2.21	0.56
1:T:406:ASN:HD21	1:i:223:SER:H	1.52	0.56
1:e:322:VAL:HG22	1:e:331:ILE:HG12	1.87	0.56
1:i:427:GLN:NE2	1:j:350:PRO:HB3	2.21	0.56
1:w:427:GLN:NE2	1:x:350:PRO:HB3	2.21	0.56
1:3:223:SER:H	1:8:406:ASN:HD21	1.52	0.56
1:H:223:SER:H	1:I:406:ASN:HD21	1.52	0.56
1:J:427:GLN:NE2	1:L:350:PRO:HB3	2.21	0.56
1:W:228[B]:HIS:CD2	1:W:241:THR:HG21	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:350:PRO:HB3	1:3:427:GLN:NE2	2.21	0.56
1:Z:406:ASN:HD21	1:a:223:SER:H	1.52	0.56
1:Z:427:GLN:HE22	1:4:350:PRO:HB3	1.71	0.56
1:f:228[B]:HIS:CD2	1:f:241:THR:HG21	2.41	0.56
1:q:322:VAL:HG22	1:q:331:ILE:HG12	1.87	0.56
1:q:350:PRO:HB3	1:s:427:GLN:NE2	2.21	0.56
1:v:228[B]:HIS:CD2	1:v:241:THR:HG21	2.41	0.56
1:z:350:PRO:HB3	1:2:427:GLN:NE2	2.20	0.56
1:A:228[B]:HIS:CD2	1:A:241:THR:HG21	2.41	0.56
1:C:322:VAL:HG22	1:C:331:ILE:HG12	1.87	0.56
1:O:427:GLN:NE2	1:m:350:PRO:HB3	2.21	0.56
1:R:322:VAL:HG22	1:R:331:ILE:HG12	1.87	0.56
1:X:350:PRO:HB3	1:e:427:GLN:NE2	2.21	0.56
1:a:228[B]:HIS:CD2	1:a:241:THR:HG21	2.40	0.56
1:a:322:VAL:HG22	1:a:331:ILE:HG12	1.87	0.56
1:a:427:GLN:HE22	1:8:350:PRO:HB3	1.71	0.56
1:b:228[B]:HIS:CD2	1:b:241:THR:HG21	2.41	0.56
1:c:427:GLN:NE2	1:o:350:PRO:HB3	2.21	0.56
1:i:228[B]:HIS:CD2	1:i:241:THR:HG21	2.41	0.56
1:j:427:GLN:HE22	1:k:350:PRO:HB3	1.71	0.56
1:r:427:GLN:HE22	1:s:350:PRO:HB3	1.71	0.56
1:w:350:PRO:HB3	1:y:427:GLN:HE22	1.71	0.56
1:z:406:ASN:HD21	1:4:223:SER:H	1.51	0.56
1:2:322:VAL:HG22	1:2:331:ILE:HG12	1.87	0.56
1:3:228[B]:HIS:CD2	1:3:241:THR:HG21	2.40	0.56
1:3:322:VAL:HG22	1:3:331:ILE:HG12	1.87	0.56
1:6:228[B]:HIS:CD2	1:6:241:THR:HG21	2.41	0.56
1:D:322:VAL:HG22	1:D:331:ILE:HG12	1.87	0.56
1:D:350:PRO:HB3	1:P:427:GLN:HE22	1.71	0.56
1:S:427:GLN:HE22	1:U:350:PRO:HB3	1.72	0.56
1:c:276:THR:OG1	1:c:374:TYR:O	2.20	0.56
1:p:322:VAL:HG22	1:p:331:ILE:HG12	1.87	0.56
1:q:276:THR:OG1	1:q:374:TYR:O	2.20	0.56
1:t:350:PRO:HB3	1:v:427:GLN:NE2	2.20	0.56
1:3:350:PRO:HB3	1:4:427:GLN:NE2	2.21	0.56
1:C:228[B]:HIS:CD2	1:C:241:THR:HG21	2.41	0.55
1:E:350:PRO:HB3	1:F:427:GLN:HE22	1.72	0.55
1:K:223:SER:H	1:L:406:ASN:HD21	1.52	0.55
1:M:228[B]:HIS:CD2	1:M:241:THR:HG21	2.40	0.55
1:O:350:PRO:HB3	1:n:427:GLN:HE22	1.71	0.55
1:P:228[B]:HIS:CD2	1:P:241:THR:HG21	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:322:VAL:HG22	1:Q:331:ILE:HG12	1.87	0.55
1:T:322:VAL:HG22	1:T:331:ILE:HG12	1.87	0.55
1:Z:350:PRO:HB3	1:3:427:GLN:HE22	1.71	0.55
1:g:228[B]:HIS:CD2	1:g:241:THR:HG21	2.41	0.55
1:j:427:GLN:NE2	1:k:350:PRO:HB3	2.21	0.55
1:l:427:GLN:NE2	1:2:350:PRO:HB3	2.20	0.55
1:6:427:GLN:NE2	1:7:350:PRO:HB3	2.21	0.55
1:H:350:PRO:HB3	1:Y:427:GLN:HE22	1.71	0.55
1:K:228[B]:HIS:CD2	1:K:241:THR:HG21	2.41	0.55
1:K:322:VAL:HG22	1:K:331:ILE:HG12	1.87	0.55
1:K:350:PRO:HB3	1:8:427:GLN:NE2	2.21	0.55
1:K:427:GLN:NE2	1:a:350:PRO:HB3	2.21	0.55
1:U:560:GLU:O	1:U:563:ILE:HG12	2.05	0.55
1:W:427:GLN:NE2	1:Y:350:PRO:HB3	2.21	0.55
1:Z:388:ARG:HH22	1:3:562:GLU:HG3	1.72	0.55
1:d:427:GLN:HE22	1:l:350:PRO:HB3	1.71	0.55
1:h:228[B]:HIS:CD2	1:h:241:THR:HG21	2.41	0.55
1:j:228[B]:HIS:CD2	1:j:241:THR:HG21	2.41	0.55
1:q:228[B]:HIS:CD2	1:q:241:THR:HG21	2.41	0.55
1:s:560:GLU:O	1:s:563:ILE:HG12	2.05	0.55
1:4:322:VAL:HG22	1:4:331:ILE:HG12	1.87	0.55
1:B:427:GLN:NE2	1:J:350:PRO:HB3	2.20	0.55
1:E:322:VAL:HG22	1:E:331:ILE:HG12	1.87	0.55
1:J:322:VAL:HG22	1:J:331:ILE:HG12	1.87	0.55
1:R:228[B]:HIS:CD2	1:R:241:THR:HG21	2.41	0.55
1:R:276:THR:OG1	1:R:374:TYR:O	2.20	0.55
1:R:618:LYS:HB2	1:R:640:PRO:HG3	1.89	0.55
1:Z:228[B]:HIS:CD2	1:Z:241:THR:HG21	2.41	0.55
1:c:427:GLN:HE22	1:o:350:PRO:HB3	1.72	0.55
1:m:237[B]:ARG:NH1	1:m:681:GLU:OE2	2.40	0.55
1:m:322:VAL:HG22	1:m:331:ILE:HG12	1.87	0.55
1:x:322:VAL:HG22	1:x:331:ILE:HG12	1.87	0.55
1:4:228[B]:HIS:CD2	1:4:241:THR:HG21	2.41	0.55
1:5:427:GLN:HE22	1:6:350:PRO:HB3	1.71	0.55
1:8:228[B]:HIS:CD2	1:8:241:THR:HG21	2.41	0.55
1:A:427:GLN:NE2	1:G:350:PRO:HB3	2.21	0.55
1:D:350:PRO:HB3	1:P:427:GLN:NE2	2.21	0.55
1:G:427:GLN:HE22	1:I:350:PRO:HB3	1.72	0.55
1:H:388:ARG:HH22	1:Y:562:GLU:HG3	1.72	0.55
1:H:427:GLN:HE22	1:W:350:PRO:HB3	1.71	0.55
1:V:322:VAL:HG22	1:V:331:ILE:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:427:GLN:NE2	1:e:350:PRO:HB3	2.20	0.55
1:d:237[B]:ARG:NH1	1:d:681:GLU:OE2	2.40	0.55
1:i:350:PRO:HB3	1:k:427:GLN:NE2	2.21	0.55
1:k:322:VAL:HG22	1:k:331:ILE:HG12	1.87	0.55
1:q:618:LYS:HB2	1:q:640:PRO:HG3	1.89	0.55
1:v:406:ASN:HD21	1:l:223:SER:H	1.53	0.55
1:w:322:VAL:HG22	1:w:331:ILE:HG12	1.87	0.55
1:z:388:ARG:HH22	1:2:562:GLU:HG3	1.72	0.55
1:5:350:PRO:HB3	1:7:427:GLN:HE22	1.71	0.55
1:5:388:ARG:HH22	1:7:562:GLU:HG3	1.72	0.55
1:B:427:GLN:HE22	1:J:350:PRO:HB3	1.71	0.55
1:C:237[B]:ARG:NH1	1:C:681:GLU:OE2	2.40	0.55
1:D:427:GLN:NE2	1:N:350:PRO:HB3	2.21	0.55
1:K:350:PRO:HB3	1:8:427:GLN:HE22	1.72	0.55
1:K:427:GLN:HE22	1:a:350:PRO:HB3	1.71	0.55
1:M:350:PRO:HB3	1:b:427:GLN:NE2	2.21	0.55
1:Q:237[B]:ARG:NH1	1:Q:681:GLU:OE2	2.40	0.55
1:T:228[B]:HIS:CD2	1:T:241:THR:HG21	2.41	0.55
1:T:237[B]:ARG:NH1	1:T:681:GLU:OE2	2.40	0.55
1:T:618:LYS:HB2	1:T:640:PRO:HG3	1.89	0.55
1:U:228[B]:HIS:CD2	1:U:241:THR:HG21	2.41	0.55
1:V:618:LYS:HB2	1:V:640:PRO:HG3	1.89	0.55
1:X:228[B]:HIS:CD2	1:X:241:THR:HG21	2.41	0.55
1:b:618:LYS:HB2	1:b:640:PRO:HG3	1.89	0.55
1:c:350:PRO:HB3	1:p:427:GLN:NE2	2.21	0.55
1:d:618:LYS:HB2	1:d:640:PRO:HG3	1.88	0.55
1:g:237[B]:ARG:NH1	1:g:681:GLU:OE2	2.40	0.55
1:m:228[B]:HIS:CD2	1:m:241:THR:HG21	2.41	0.55
1:m:618:LYS:HB2	1:m:640:PRO:HG3	1.89	0.55
1:n:237[B]:ARG:NH1	1:n:681:GLU:OE2	2.40	0.55
1:s:228[B]:HIS:CD2	1:s:241:THR:HG21	2.41	0.55
1:t:427:GLN:HE22	1:u:350:PRO:HB3	1.72	0.55
1:x:237[B]:ARG:NH1	1:x:681:GLU:OE2	2.40	0.55
1:y:322:VAL:HG22	1:y:331:ILE:HG12	1.87	0.55
1:1:427:GLN:HE22	1:2:350:PRO:HB3	1.71	0.55
1:2:228[B]:HIS:CD2	1:2:241:THR:HG21	2.41	0.55
1:5:228[B]:HIS:CD2	1:5:241:THR:HG21	2.41	0.55
1:B:388:ARG:HH22	1:L:562:GLU:HG3	1.72	0.55
1:F:322:VAL:HG22	1:F:331:ILE:HG12	1.87	0.55
1:H:228[B]:HIS:CD2	1:H:241:THR:HG21	2.41	0.55
1:J:618:LYS:HB2	1:J:640:PRO:HG3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:618:LYS:HB2	1:O:640:PRO:HG3	1.89	0.55
1:T:388:ARG:HH22	1:l:562:GLU:HG3	1.72	0.55
1:V:427:GLN:HE22	1:e:350:PRO:HB3	1.71	0.55
1:X:350:PRO:HB3	1:e:427:GLN:HE22	1.72	0.55
1:f:427:GLN:NE2	1:h:350:PRO:HB3	2.21	0.55
1:f:618:LYS:HB2	1:f:640:PRO:HG3	1.89	0.55
1:k:276:THR:OG1	1:k:374:TYR:O	2.20	0.55
1:l:618:LYS:HB2	1:l:640:PRO:HG3	1.89	0.55
1:m:562:GLU:HG3	1:n:388:ARG:HH22	1.72	0.55
1:n:618:LYS:HB2	1:n:640:PRO:HG3	1.89	0.55
1:p:618:LYS:HB2	1:p:640:PRO:HG3	1.89	0.55
1:s:237[B]:ARG:NH1	1:s:681:GLU:OE2	2.40	0.55
1:2:618:LYS:HB2	1:2:640:PRO:HG3	1.89	0.55
1:3:350:PRO:HB3	1:4:427:GLN:HE22	1.71	0.55
1:8:618:LYS:HB2	1:8:640:PRO:HG3	1.89	0.55
1:D:427:GLN:HE22	1:N:350:PRO:HB3	1.71	0.55
1:G:237[B]:ARG:NH1	1:G:681:GLU:OE2	2.40	0.55
1:I:237[B]:ARG:NH1	1:I:681:GLU:OE2	2.40	0.55
1:I:276:THR:OG1	1:I:374:TYR:O	2.20	0.55
1:J:228[B]:HIS:CD2	1:J:241:THR:HG21	2.41	0.55
1:J:562:GLU:HG3	1:L:388:ARG:HH22	1.72	0.55
1:L:237[B]:ARG:NH1	1:L:681:GLU:OE2	2.40	0.55
1:N:276:THR:OG1	1:N:374:TYR:O	2.20	0.55
1:O:562:GLU:HG3	1:m:388:ARG:HH22	1.72	0.55
1:S:237[B]:ARG:NH1	1:S:681:GLU:OE2	2.40	0.55
1:T:562:GLU:HG3	1:d:388:ARG:HH22	1.72	0.55
1:U:229:CYS:SG	1:e:396:TYR:CD1	2.92	0.55
1:U:237[B]:ARG:NH1	1:U:681:GLU:OE2	2.40	0.55
1:Y:228[B]:HIS:CD2	1:Y:241:THR:HG21	2.41	0.55
1:Z:618:LYS:HB2	1:Z:640:PRO:HG3	1.89	0.55
1:a:562:GLU:HG3	1:8:388:ARG:HH22	1.72	0.55
1:e:618:LYS:HB2	1:e:640:PRO:HG3	1.89	0.55
1:t:237[B]:ARG:NH1	1:t:681:GLU:OE2	2.40	0.55
1:z:237[B]:ARG:NH1	1:z:681:GLU:OE2	2.40	0.55
1:z:562:GLU:HG3	1:1:388:ARG:HH22	1.72	0.55
1:z:618:LYS:HB2	1:z:640:PRO:HG3	1.89	0.55
1:6:618:LYS:HB2	1:6:640:PRO:HG3	1.89	0.55
1:7:228[B]:HIS:CD2	1:7:241:THR:HG21	2.41	0.55
1:A:237[B]:ARG:NH1	1:A:681:GLU:OE2	2.40	0.55
1:A:322:VAL:HG22	1:A:331:ILE:HG12	1.87	0.55
1:B:237[B]:ARG:NH1	1:B:681:GLU:OE2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:276:THR:OG1	1:D:374:TYR:O	2.20	0.55
1:J:427:GLN:HE22	1:L:350:PRO:HB3	1.71	0.55
1:N:562:GLU:HG3	1:P:388:ARG:HH22	1.72	0.55
1:P:237[B]:ARG:NH1	1:P:681:GLU:OE2	2.40	0.55
1:R:237[B]:ARG:NH1	1:R:681:GLU:OE2	2.40	0.55
1:R:350:PRO:HB3	1:U:427:GLN:HE22	1.71	0.55
1:S:228[B]:HIS:CD2	1:S:241:THR:HG21	2.41	0.55
1:W:618:LYS:HB2	1:W:640:PRO:HG3	1.89	0.55
1:X:237[B]:ARG:NH1	1:X:681:GLU:OE2	2.40	0.55
1:a:237[B]:ARG:NH1	1:a:681:GLU:OE2	2.40	0.55
1:c:350:PRO:HB3	1:p:427:GLN:HE22	1.71	0.55
1:c:412:TYR:OH	1:c:639:HIS:O	2.25	0.55
1:e:412:TYR:OH	1:e:639:HIS:O	2.25	0.55
1:i:276:THR:OG1	1:i:374:TYR:O	2.20	0.55
1:i:350:PRO:HB3	1:k:427:GLN:HE22	1.71	0.55
1:j:237[B]:ARG:NH1	1:j:681:GLU:OE2	2.40	0.55
1:o:228[B]:HIS:CD2	1:o:241:THR:HG21	2.41	0.55
1:o:237[B]:ARG:NH1	1:o:681:GLU:OE2	2.40	0.55
1:p:237[B]:ARG:NH1	1:p:681:GLU:OE2	2.40	0.55
1:q:237[B]:ARG:NH1	1:q:681:GLU:OE2	2.40	0.55
1:q:350:PRO:HB3	1:s:427:GLN:HE22	1.71	0.55
1:r:237[B]:ARG:NH1	1:r:681:GLU:OE2	2.40	0.55
1:u:237[B]:ARG:NH1	1:u:681:GLU:OE2	2.40	0.55
1:u:276:THR:OG1	1:u:374:TYR:O	2.21	0.55
1:v:237[B]:ARG:NH1	1:v:681:GLU:OE2	2.40	0.55
1:v:396:TYR:CD1	1:l:229:CYS:SG	2.91	0.55
1:x:618:LYS:HB2	1:x:640:PRO:HG3	1.89	0.55
1:3:237[B]:ARG:NH1	1:3:681:GLU:OE2	2.40	0.55
1:6:237[B]:ARG:NH1	1:6:681:GLU:OE2	2.40	0.55
1:7:618:LYS:HB2	1:7:640:PRO:HG3	1.89	0.55
1:C:427:GLN:HE22	1:b:350:PRO:HB3	1.71	0.55
1:D:237[B]:ARG:NH1	1:D:681:GLU:OE2	2.40	0.55
1:H:237[B]:ARG:NH1	1:H:681:GLU:OE2	2.40	0.55
1:L:618:LYS:HB2	1:L:640:PRO:HG3	1.89	0.55
1:Q:618:LYS:HB2	1:Q:640:PRO:HG3	1.89	0.55
1:R:427:GLN:HE22	1:S:350:PRO:HB3	1.71	0.55
1:V:237[B]:ARG:NH1	1:V:681:GLU:OE2	2.40	0.55
1:W:237[B]:ARG:NH1	1:W:681:GLU:OE2	2.40	0.55
1:Y:618:LYS:HB2	1:Y:640:PRO:HG3	1.89	0.55
1:c:237[B]:ARG:NH1	1:c:681:GLU:OE2	2.40	0.55
1:c:618:LYS:HB2	1:c:640:PRO:HG3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:427:GLN:HE22	1:h:350:PRO:HB3	1.72	0.55
1:g:608:ASP:OD1	1:g:726:THR:HG22	2.07	0.55
1:q:427:GLN:HE22	1:r:350:PRO:HB3	1.71	0.55
1:r:228[B]:HIS:CD2	1:r:241:THR:HG21	2.41	0.55
1:r:618:LYS:HB2	1:r:640:PRO:HG3	1.89	0.55
1:v:322:VAL:HG22	1:v:331:ILE:HG12	1.87	0.55
1:x:427:GLN:HE22	1:y:350:PRO:HB3	1.71	0.55
1:1:237[B]:ARG:NH1	1:1:681:GLU:OE2	2.40	0.55
1:5:237[B]:ARG:NH1	1:5:681:GLU:OE2	2.40	0.55
1:6:427:GLN:HE22	1:7:350:PRO:HB3	1.71	0.55
1:B:350:PRO:HB3	1:L:427:GLN:HE22	1.71	0.55
1:H:618:LYS:HB2	1:H:640:PRO:HG3	1.89	0.55
1:M:608:ASP:OD1	1:M:726:THR:HG22	2.07	0.55
1:N:237[B]:ARG:NH1	1:N:681:GLU:OE2	2.40	0.55
1:S:618:LYS:HB2	1:S:640:PRO:HG3	1.89	0.55
1:T:350:PRO:HB3	1:l:427:GLN:HE22	1.71	0.55
1:U:608:ASP:OD1	1:U:726:THR:HG22	2.07	0.55
1:h:608:ASP:OD1	1:h:726:THR:HG22	2.07	0.55
1:k:237[B]:ARG:NH1	1:k:681:GLU:OE2	2.40	0.55
1:o:412:TYR:OH	1:o:639:HIS:O	2.25	0.55
1:s:608:ASP:OD1	1:s:726:THR:HG22	2.07	0.55
1:u:562:GLU:HG3	1:v:388:ARG:HH22	1.72	0.55
1:z:427:GLN:HE22	1:1:350:PRO:HB3	1.71	0.55
1:5:618:LYS:HB2	1:5:640:PRO:HG3	1.89	0.55
1:C:608:ASP:OD1	1:C:726:THR:HG22	2.07	0.54
1:D:562:GLU:HG3	1:N:388:ARG:HH22	1.72	0.54
1:H:562:GLU:HG3	1:W:388:ARG:HH22	1.72	0.54
1:H:608:ASP:OD1	1:H:726:THR:HG22	2.08	0.54
1:L:608:ASP:OD1	1:L:726:THR:HG22	2.07	0.54
1:W:427:GLN:HE22	1:Y:350:PRO:HB3	1.71	0.54
1:W:608:ASP:OD1	1:W:726:THR:HG22	2.07	0.54
1:X:618:LYS:HB2	1:X:640:PRO:HG3	1.89	0.54
1:Y:276:THR:OG1	1:Y:374:TYR:O	2.21	0.54
1:Y:608:ASP:OD1	1:Y:726:THR:HG22	2.07	0.54
1:a:608:ASP:OD1	1:a:726:THR:HG22	2.07	0.54
1:b:237[B]:ARG:NH1	1:b:681:GLU:OE2	2.40	0.54
1:e:237[B]:ARG:NH1	1:e:681:GLU:OE2	2.40	0.54
1:f:350:PRO:HB3	1:g:427:GLN:HE22	1.71	0.54
1:f:388:ARG:HH22	1:g:562:GLU:HG3	1.72	0.54
1:g:618:LYS:HB2	1:g:640:PRO:HG3	1.89	0.54
1:i:562:GLU:HG3	1:j:388:ARG:HH22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:427:GLN:HE22	1:v:350:PRO:HB3	1.72	0.54
1:z:350:PRO:HB3	1:2:427:GLN:HE22	1.72	0.54
1:2:237[B]:ARG:NH1	1:2:681:GLU:OE2	2.40	0.54
1:3:608:ASP:OD1	1:3:726:THR:HG22	2.07	0.54
1:4:618:LYS:HB2	1:4:640:PRO:HG3	1.89	0.54
1:5:608:ASP:OD1	1:5:726:THR:HG22	2.07	0.54
1:6:608:ASP:OD1	1:6:726:THR:HG22	2.07	0.54
1:7:276:THR:OG1	1:7:374:TYR:O	2.20	0.54
1:7:608:ASP:OD1	1:7:726:THR:HG22	2.07	0.54
1:A:388:ARG:HH22	1:I:562:GLU:HG3	1.73	0.54
1:F:350:PRO:HB3	1:Q:427:GLN:HE22	1.72	0.54
1:J:237[B]:ARG:NH1	1:J:681:GLU:OE2	2.40	0.54
1:K:237[B]:ARG:NH1	1:K:681:GLU:OE2	2.40	0.54
1:K:618:LYS:HB2	1:K:640:PRO:HG3	1.89	0.54
1:L:228[B]:HIS:CD2	1:L:241:THR:HG21	2.41	0.54
1:M:350:PRO:HB3	1:b:427:GLN:HE22	1.72	0.54
1:O:237[B]:ARG:NH1	1:O:681:GLU:OE2	2.40	0.54
1:U:276:THR:OG1	1:U:374:TYR:O	2.20	0.54
1:V:350:PRO:HB3	1:X:427:GLN:HE22	1.72	0.54
1:V:412:TYR:OH	1:V:639:HIS:O	2.25	0.54
1:Y:237[B]:ARG:NH1	1:Y:681:GLU:OE2	2.40	0.54
1:c:448:GLN:NE2	1:c:454:GLN:HB3	2.18	0.54
1:i:237[B]:ARG:NH1	1:i:681:GLU:OE2	2.40	0.54
1:l:237[B]:ARG:NH1	1:l:681:GLU:OE2	2.40	0.54
1:o:562:GLU:HG3	1:p:388:ARG:HH22	1.72	0.54
1:o:618:LYS:HB2	1:o:640:PRO:HG3	1.89	0.54
1:z:608:ASP:OD1	1:z:726:THR:HG22	2.07	0.54
1:4:237[B]:ARG:NH1	1:4:681:GLU:OE2	2.40	0.54
1:5:562:GLU:HG3	1:6:388:ARG:HH22	1.72	0.54
1:A:350:PRO:HB3	1:I:427:GLN:HE22	1.72	0.54
1:C:562:GLU:HG3	1:b:388:ARG:HH22	1.72	0.54
1:C:618:LYS:HB2	1:C:640:PRO:HG3	1.89	0.54
1:E:534:MET:HG2	1:E:535:HIS:CD2	2.43	0.54
1:G:562:GLU:HG3	1:I:388:ARG:HH22	1.72	0.54
1:W:322:VAL:HG22	1:W:331:ILE:HG12	1.87	0.54
1:X:276:THR:OG1	1:X:374:TYR:O	2.20	0.54
1:c:562:GLU:HG3	1:o:388:ARG:HH22	1.73	0.54
1:f:237[B]:ARG:NH1	1:f:681:GLU:OE2	2.40	0.54
1:i:388:ARG:HH22	1:k:562:GLU:HG3	1.72	0.54
1:o:427:GLN:HE22	1:p:350:PRO:HB3	1.72	0.54
1:p:412:TYR:OH	1:p:639:HIS:O	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:276:THR:OG1	1:v:374:TYR:O	2.20	0.54
1:x:228[B]:HIS:CD2	1:x:241:THR:HG21	2.41	0.54
1:z:228[B]:HIS:CD2	1:z:241:THR:HG21	2.41	0.54
1:3:388:ARG:HH22	1:4:562:GLU:HG3	1.72	0.54
1:6:322:VAL:HG22	1:6:331:ILE:HG12	1.87	0.54
1:7:237[B]:ARG:NH1	1:7:681:GLU:OE2	2.40	0.54
1:C:534:MET:HG2	1:C:535:HIS:CD2	2.43	0.54
1:E:237[B]:ARG:NH1	1:E:681:GLU:OE2	2.40	0.54
1:K:562:GLU:HG3	1:a:388:ARG:HH22	1.72	0.54
1:O:427:GLN:HE22	1:m:350:PRO:HB3	1.72	0.54
1:Q:228[B]:HIS:CD2	1:Q:241:THR:HG21	2.41	0.54
1:R:534:MET:HG2	1:R:535:HIS:CD2	2.43	0.54
1:U:412:TYR:OH	1:U:639:HIS:O	2.25	0.54
1:V:388:ARG:HH22	1:X:562:GLU:HG3	1.72	0.54
1:W:534:MET:HG2	1:W:535:HIS:CD2	2.43	0.54
1:c:608:ASP:OD1	1:c:726:THR:HG22	2.07	0.54
1:d:534:MET:HG2	1:d:535:HIS:CD2	2.43	0.54
1:e:448:GLN:NE2	1:e:454:GLN:HB3	2.18	0.54
1:e:534:MET:HG2	1:e:535:HIS:CD2	2.43	0.54
1:g:534:MET:HG2	1:g:535:HIS:CD2	2.43	0.54
1:n:534:MET:HG2	1:n:535:HIS:CD2	2.43	0.54
1:q:534:MET:HG2	1:q:535:HIS:CD2	2.43	0.54
1:r:562:GLU:HG3	1:s:388:ARG:HH22	1.72	0.54
1:s:412:TYR:OH	1:s:639:HIS:O	2.25	0.54
1:t:412:TYR:OH	1:t:639:HIS:O	2.25	0.54
1:w:534:MET:HG2	1:w:535:HIS:CD2	2.43	0.54
1:y:237[B]:ARG:NH1	1:y:681:GLU:OE2	2.40	0.54
1:1:562:GLU:HG3	1:2:388:ARG:HH22	1.72	0.54
1:6:412:TYR:OH	1:6:639:HIS:O	2.25	0.54
1:8:412:TYR:OH	1:8:639:HIS:O	2.25	0.54
1:B:562:GLU:HG3	1:J:388:ARG:HH22	1.72	0.54
1:E:412:TYR:OH	1:E:639:HIS:O	2.25	0.54
1:F:237[B]:ARG:NH1	1:F:681:GLU:OE2	2.40	0.54
1:G:412:TYR:OH	1:G:639:HIS:O	2.25	0.54
1:I:534:MET:HG2	1:I:535:HIS:CD2	2.43	0.54
1:M:237[B]:ARG:NH1	1:M:681:GLU:OE2	2.40	0.54
1:M:388:ARG:HH22	1:b:562:GLU:HG3	1.73	0.54
1:P:534:MET:HG2	1:P:535:HIS:CD2	2.43	0.54
1:R:562:GLU:HG3	1:S:388:ARG:HH22	1.72	0.54
1:S:562:GLU:HG3	1:U:388:ARG:HH22	1.72	0.54
1:T:427:GLN:HE22	1:d:350:PRO:HB3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:388:ARG:HH22	1:e:562:GLU:HG3	1.73	0.54
1:X:608:ASP:OD1	1:X:726:THR:HG22	2.08	0.54
1:a:448:GLN:NE2	1:a:454:GLN:HB3	2.18	0.54
1:c:534:MET:HG2	1:c:535:HIS:CD2	2.43	0.54
1:e:608:ASP:OD1	1:e:726:THR:HG22	2.07	0.54
1:f:562:GLU:HG3	1:h:388:ARG:HH22	1.73	0.54
1:h:237[B]:ARG:NH1	1:h:681:GLU:OE2	2.40	0.54
1:o:608:ASP:OD1	1:o:726:THR:HG22	2.07	0.54
1:r:276:THR:OG1	1:r:374:TYR:O	2.20	0.54
1:s:276:THR:OG1	1:s:374:TYR:O	2.20	0.54
1:t:350:PRO:HB3	1:v:427:GLN:HE22	1.71	0.54
1:w:412:TYR:OH	1:w:639:HIS:O	2.25	0.54
1:z:534:MET:HG2	1:z:535:HIS:CD2	2.43	0.54
1:6:534:MET:HG2	1:6:535:HIS:CD2	2.43	0.54
1:B:618:LYS:HB2	1:B:640:PRO:HG3	1.89	0.54
1:E:618:LYS:HB2	1:E:640:PRO:HG3	1.88	0.54
1:F:618:LYS:HB2	1:F:640:PRO:HG3	1.89	0.54
1:J:534:MET:HG2	1:J:535:HIS:CD2	2.43	0.54
1:L:534:MET:HG2	1:L:535:HIS:CD2	2.43	0.54
1:Q:608:ASP:OD1	1:Q:726:THR:HG22	2.07	0.54
1:S:608:ASP:OD1	1:S:726:THR:HG22	2.08	0.54
1:W:412:TYR:OH	1:W:639:HIS:O	2.25	0.54
1:j:534:MET:HG2	1:j:535:HIS:CD2	2.43	0.54
1:m:276:THR:OG1	1:m:374:TYR:O	2.20	0.54
1:m:608:ASP:OD1	1:m:726:THR:HG22	2.07	0.54
1:o:276:THR:OG1	1:o:374:TYR:O	2.20	0.54
1:r:608:ASP:OD1	1:r:726:THR:HG22	2.08	0.54
1:t:562:GLU:HG3	1:u:388:ARG:HH22	1.72	0.54
1:u:412:TYR:OH	1:u:639:HIS:O	2.25	0.54
1:w:237[B]:ARG:NH1	1:w:681:GLU:OE2	2.40	0.54
1:x:608:ASP:OD1	1:x:726:THR:HG22	2.07	0.54
1:2:534:MET:HG2	1:2:535:HIS:CD2	2.43	0.54
1:3:534:MET:HG2	1:3:535:HIS:CD2	2.43	0.54
1:5:534:MET:HG2	1:5:535:HIS:CD2	2.43	0.54
1:A:276:THR:OG1	1:A:374:TYR:O	2.20	0.54
1:A:618:LYS:HB2	1:A:640:PRO:HG3	1.89	0.54
1:E:608:ASP:OD1	1:E:726:THR:HG22	2.08	0.54
1:H:534:MET:HG2	1:H:535:HIS:CD2	2.43	0.54
1:I:412:TYR:OH	1:I:639:HIS:O	2.25	0.54
1:I:608:ASP:OD1	1:I:726:THR:HG22	2.07	0.54
1:K:388:ARG:HH22	1:8:562:GLU:HG3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:448:GLN:NE2	1:L:454:GLN:HB3	2.18	0.54
1:P:412:TYR:OH	1:P:639:HIS:O	2.25	0.54
1:R:608:ASP:OD1	1:R:726:THR:HG22	2.07	0.54
1:T:276:THR:OG1	1:T:374:TYR:O	2.20	0.54
1:T:608:ASP:OD1	1:T:726:THR:HG22	2.07	0.54
1:Z:562:GLU:HG3	1:4:388:ARG:HH22	1.72	0.54
1:a:534:MET:HG2	1:a:535:HIS:CD2	2.43	0.54
1:b:412:TYR:OH	1:b:639:HIS:O	2.25	0.54
1:f:396:TYR:CD1	1:z:229:CYS:SG	2.92	0.54
1:i:534:MET:HG2	1:i:535:HIS:CD2	2.43	0.54
1:i:618:LYS:HB2	1:i:640:PRO:HG3	1.89	0.54
1:j:412:TYR:OH	1:j:639:HIS:O	2.25	0.54
1:p:608:ASP:OD1	1:p:726:THR:HG22	2.07	0.54
1:q:562:GLU:HG3	1:r:388:ARG:HH22	1.72	0.54
1:u:534:MET:HG2	1:u:535:HIS:CD2	2.43	0.54
1:v:618:LYS:HB2	1:v:640:PRO:HG3	1.89	0.54
1:w:276:THR:OG1	1:w:374:TYR:O	2.20	0.54
1:w:608:ASP:OD1	1:w:726:THR:HG22	2.08	0.54
1:y:618:LYS:HB2	1:y:640:PRO:HG3	1.89	0.54
1:z:448:GLN:NE2	1:z:454:GLN:HB3	2.18	0.54
1:5:276:THR:OG1	1:5:374:TYR:O	2.20	0.54
1:6:562:GLU:HG3	1:7:388:ARG:HH22	1.72	0.54
1:F:608:ASP:OD1	1:F:726:THR:HG22	2.07	0.54
1:N:618:LYS:HB2	1:N:640:PRO:HG3	1.89	0.54
1:R:388:ARG:HH22	1:U:562:GLU:HG3	1.72	0.54
1:S:276:THR:OG1	1:S:374:TYR:O	2.20	0.54
1:V:608:ASP:OD1	1:V:726:THR:HG22	2.07	0.54
1:W:562:GLU:HG3	1:Y:388:ARG:HH22	1.72	0.54
1:Z:276:THR:OG1	1:Z:374:TYR:O	2.20	0.54
1:a:618:LYS:HB2	1:a:640:PRO:HG3	1.89	0.54
1:f:412:TYR:OH	1:f:639:HIS:O	2.25	0.54
1:g:448:GLN:NE2	1:g:454:GLN:HB3	2.18	0.54
1:m:427:GLN:HE22	1:n:350:PRO:HB3	1.71	0.54
1:n:228[B]:HIS:CD2	1:n:241:THR:HG21	2.41	0.54
1:o:534:MET:HG2	1:o:535:HIS:CD2	2.43	0.54
1:1:618:LYS:HB2	1:1:640:PRO:HG3	1.89	0.54
1:2:608:ASP:OD1	1:2:726:THR:HG22	2.07	0.54
1:3:618:LYS:HB2	1:3:640:PRO:HG3	1.89	0.54
1:6:276:THR:OG1	1:6:374:TYR:O	2.20	0.54
1:M:618:LYS:HB2	1:M:640:PRO:HG3	1.88	0.54
1:N:534:MET:HG2	1:N:535:HIS:CD2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:534:MET:HG2	1:O:535:HIS:CD2	2.43	0.54
1:T:534:MET:HG2	1:T:535:HIS:CD2	2.43	0.54
1:U:229:CYS:HG	1:e:396:TYR:HD1	1.38	0.54
1:V:228[B]:HIS:CD2	1:V:241:THR:HG21	2.41	0.54
1:X:534:MET:HG2	1:X:535:HIS:CD2	2.43	0.54
1:Z:608:ASP:OD1	1:Z:726:THR:HG22	2.07	0.54
1:c:388:ARG:HH22	1:p:562:GLU:HG3	1.72	0.54
1:e:276:THR:OG1	1:e:374:TYR:O	2.20	0.54
1:j:562:GLU:HG3	1:k:388:ARG:HH22	1.72	0.54
1:m:534:MET:HG2	1:m:535:HIS:CD2	2.43	0.54
1:p:276:THR:OG1	1:p:374:TYR:O	2.20	0.54
1:q:388:ARG:HH22	1:s:562:GLU:HG3	1.72	0.54
1:q:608:ASP:OD1	1:q:726:THR:HG22	2.08	0.54
1:u:608:ASP:OD1	1:u:726:THR:HG22	2.07	0.54
1:v:608:ASP:OD1	1:v:726:THR:HG22	2.07	0.54
1:B:534:MET:HG2	1:B:535:HIS:CD2	2.43	0.54
1:B:608:ASP:OD1	1:B:726:THR:HG22	2.07	0.54
1:C:350:PRO:HB3	1:M:427:GLN:HE22	1.72	0.54
1:C:448:GLN:NE2	1:C:454:GLN:HB3	2.18	0.54
1:E:276:THR:OG1	1:E:374:TYR:O	2.21	0.54
1:E:427:GLN:HE22	1:Q:350:PRO:HB3	1.72	0.54
1:I:618:LYS:HB2	1:I:640:PRO:HG3	1.89	0.54
1:U:534:MET:HG2	1:U:535:HIS:CD2	2.43	0.54
1:U:618:LYS:HB2	1:U:640:PRO:HG3	1.89	0.54
1:d:228[B]:HIS:CD2	1:d:241:THR:HG21	2.41	0.54
1:d:412:TYR:OH	1:d:639:HIS:O	2.25	0.54
1:g:350:PRO:HB3	1:h:427:GLN:HE22	1.72	0.54
1:k:618:LYS:HB2	1:k:640:PRO:HG3	1.89	0.54
1:l:534:MET:HG2	1:l:535:HIS:CD2	2.43	0.54
1:p:228[B]:HIS:CD2	1:p:241:THR:HG21	2.41	0.54
1:w:618:LYS:HB2	1:w:640:PRO:HG3	1.89	0.54
1:y:608:ASP:OD1	1:y:726:THR:HG22	2.07	0.54
1:1:276:THR:OG1	1:1:374:TYR:O	2.20	0.54
1:A:427:GLN:HE22	1:G:350:PRO:HB3	1.72	0.53
1:A:608:ASP:OD1	1:A:726:THR:HG22	2.07	0.53
1:D:534:MET:HG2	1:D:535:HIS:CD2	2.43	0.53
1:D:618:LYS:HB2	1:D:640:PRO:HG3	1.89	0.53
1:G:577:VAL:O	1:G:591:GLY:N	2.41	0.53
1:J:608:ASP:OD1	1:J:726:THR:HG22	2.08	0.53
1:L:276:THR:OG1	1:L:374:TYR:O	2.21	0.53
1:b:534:MET:HG2	1:b:535:HIS:CD2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:534:MET:HG2	1:f:535:HIS:CD2	2.43	0.53
1:g:276:THR:OG1	1:g:374:TYR:O	2.20	0.53
1:h:618:LYS:HB2	1:h:640:PRO:HG3	1.89	0.53
1:i:427:GLN:HE22	1:j:350:PRO:HB3	1.71	0.53
1:k:534:MET:HG2	1:k:535:HIS:CD2	2.43	0.53
1:s:534:MET:HG2	1:s:535:HIS:CD2	2.43	0.53
1:t:577:VAL:O	1:t:591:GLY:N	2.41	0.53
1:u:618:LYS:HB2	1:u:640:PRO:HG3	1.89	0.53
1:l:534:MET:HG2	1:l:535:HIS:CD2	2.43	0.53
1:8:237[B]:ARG:NH1	1:8:681:GLU:OE2	2.40	0.53
1:8:608:ASP:OD1	1:8:726:THR:HG22	2.08	0.53
1:A:412:TYR:OH	1:A:639:HIS:O	2.25	0.53
1:D:388:ARG:HH22	1:P:562:GLU:HG3	1.72	0.53
1:E:388:ARG:HH22	1:F:562:GLU:HG3	1.72	0.53
1:K:276:THR:OG1	1:K:374:TYR:O	2.20	0.53
1:N:427:GLN:HE22	1:P:350:PRO:HB3	1.71	0.53
1:N:608:ASP:OD1	1:N:726:THR:HG22	2.07	0.53
1:W:276:THR:OG1	1:W:374:TYR:O	2.21	0.53
1:Y:534:MET:HG2	1:Y:535:HIS:CD2	2.43	0.53
1:Z:237[B]:ARG:NH1	1:Z:681:GLU:OE2	2.40	0.53
1:Z:448:GLN:NE2	1:Z:454:GLN:HB3	2.18	0.53
1:d:608:ASP:OD1	1:d:726:THR:HG22	2.07	0.53
1:j:618:LYS:HB2	1:j:640:PRO:HG3	1.89	0.53
1:n:412:TYR:OH	1:n:639:HIS:O	2.25	0.53
1:p:534:MET:HG2	1:p:535:HIS:CD2	2.43	0.53
1:s:618:LYS:HB2	1:s:640:PRO:HG3	1.89	0.53
1:t:608:ASP:OD1	1:t:726:THR:HG22	2.07	0.53
1:v:412:TYR:OH	1:v:639:HIS:O	2.25	0.53
1:4:276:THR:OG1	1:4:374:TYR:O	2.20	0.53
1:4:608:ASP:OD1	1:4:726:THR:HG22	2.07	0.53
1:8:448:GLN:NE2	1:8:454:GLN:HB3	2.18	0.53
1:D:577:VAL:O	1:D:591:GLY:N	2.41	0.53
1:F:412:TYR:OH	1:F:639:HIS:O	2.25	0.53
1:G:618:LYS:HB2	1:G:640:PRO:HG3	1.89	0.53
1:M:534:MET:HG2	1:M:535:HIS:CD2	2.43	0.53
1:N:412:TYR:OH	1:N:639:HIS:O	2.25	0.53
1:P:618:LYS:HB2	1:P:640:PRO:HG3	1.89	0.53
1:S:534:MET:HG2	1:S:535:HIS:CD2	2.43	0.53
1:V:276:THR:OG1	1:V:374:TYR:O	2.20	0.53
1:V:534:MET:HG2	1:V:535:HIS:CD2	2.43	0.53
1:V:562:GLU:HG3	1:e:388:ARG:HH22	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:412:TYR:OH	1:i:639:HIS:O	2.25	0.53
1:j:608:ASP:OD1	1:j:726:THR:HG22	2.08	0.53
1:r:534:MET:HG2	1:r:535:HIS:CD2	2.43	0.53
1:t:534:MET:HG2	1:t:535:HIS:CD2	2.43	0.53
1:t:618:LYS:HB2	1:t:640:PRO:HG3	1.89	0.53
1:w:388:ARG:HH22	1:y:562:GLU:HG3	1.73	0.53
1:w:427:GLN:HE22	1:x:350:PRO:HB3	1.72	0.53
1:x:577:VAL:O	1:x:591:GLY:N	2.41	0.53
1:1:412:TYR:OH	1:1:639:HIS:O	2.25	0.53
1:1:608:ASP:OD1	1:1:726:THR:HG22	2.08	0.53
1:6:254:HIS:CD2	1:6:650:PRO:HG3	2.44	0.53
1:7:534:MET:HG2	1:7:535:HIS:CD2	2.43	0.53
1:B:276:THR:OG1	1:B:374:TYR:O	2.21	0.53
1:B:412:TYR:OH	1:B:639:HIS:O	2.25	0.53
1:G:608:ASP:OD1	1:G:726:THR:HG22	2.08	0.53
1:H:448:GLN:NE2	1:H:454:GLN:HB3	2.18	0.53
1:M:577:VAL:O	1:M:591:GLY:N	2.41	0.53
1:Q:577:VAL:O	1:Q:591:GLY:N	2.41	0.53
1:Z:254:HIS:CD2	1:Z:650:PRO:HG3	2.44	0.53
1:d:254:HIS:CD2	1:d:650:PRO:HG3	2.44	0.53
1:f:608:ASP:OD1	1:f:726:THR:HG22	2.07	0.53
1:h:534:MET:HG2	1:h:535:HIS:CD2	2.43	0.53
1:h:577:VAL:O	1:h:591:GLY:N	2.41	0.53
1:k:577:VAL:O	1:k:591:GLY:N	2.41	0.53
1:n:254:HIS:CD2	1:n:650:PRO:HG3	2.44	0.53
1:n:608:ASP:OD1	1:n:726:THR:HG22	2.07	0.53
1:s:577:VAL:O	1:s:591:GLY:N	2.41	0.53
1:x:534:MET:HG2	1:x:535:HIS:CD2	2.43	0.53
1:y:276:THR:OG1	1:y:374:TYR:O	2.20	0.53
1:y:412:TYR:OH	1:y:639:HIS:O	2.25	0.53
1:z:276:THR:OG1	1:z:374:TYR:O	2.20	0.53
1:8:254:HIS:CD2	1:8:650:PRO:HG3	2.44	0.53
1:A:254:HIS:CD2	1:A:650:PRO:HG3	2.44	0.53
1:C:254:HIS:CD2	1:C:650:PRO:HG3	2.44	0.53
1:G:254:HIS:CD2	1:G:650:PRO:HG3	2.44	0.53
1:G:534:MET:HG2	1:G:535:HIS:CD2	2.43	0.53
1:K:577:VAL:O	1:K:591:GLY:N	2.41	0.53
1:K:608:ASP:OD1	1:K:726:THR:HG22	2.07	0.53
1:O:608:ASP:OD1	1:O:726:THR:HG22	2.07	0.53
1:P:577:VAL:O	1:P:591:GLY:N	2.41	0.53
1:P:608:ASP:OD1	1:P:726:THR:HG22	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:577:VAL:O	1:U:591:GLY:N	2.41	0.53
1:b:608:ASP:OD1	1:b:726:THR:HG22	2.07	0.53
1:g:254:HIS:CD2	1:g:650:PRO:HG3	2.44	0.53
1:h:412:TYR:OH	1:h:639:HIS:O	2.25	0.53
1:i:608:ASP:OD1	1:i:726:THR:HG22	2.08	0.53
1:j:577:VAL:O	1:j:591:GLY:N	2.41	0.53
1:l:608:ASP:OD1	1:l:726:THR:HG22	2.08	0.53
1:t:254:HIS:CD2	1:t:650:PRO:HG3	2.44	0.53
1:u:254:HIS:CD2	1:u:650:PRO:HG3	2.44	0.53
1:v:254:HIS:CD2	1:v:650:PRO:HG3	2.44	0.53
1:z:412:TYR:OH	1:z:639:HIS:O	2.25	0.53
1:3:577:VAL:O	1:3:591:GLY:N	2.41	0.53
1:4:534:MET:HG2	1:4:535:HIS:CD2	2.43	0.53
1:4:577:VAL:O	1:4:591:GLY:N	2.41	0.53
1:A:534:MET:HG2	1:A:535:HIS:CD2	2.43	0.53
1:C:276:THR:OG1	1:C:374:TYR:O	2.20	0.53
1:E:562:GLU:HG3	1:Q:388:ARG:HH22	1.73	0.53
1:F:534:MET:HG2	1:F:535:HIS:CD2	2.43	0.53
1:K:534:MET:HG2	1:K:535:HIS:CD2	2.43	0.53
1:L:412:TYR:OH	1:L:639:HIS:O	2.25	0.53
1:M:254:HIS:CD2	1:M:650:PRO:HG3	2.44	0.53
1:O:448:GLN:NE2	1:O:454:GLN:HB3	2.18	0.53
1:P:254:HIS:CD2	1:P:650:PRO:HG3	2.44	0.53
1:Q:534:MET:HG2	1:Q:535:HIS:CD2	2.43	0.53
1:W:254:HIS:CD2	1:W:650:PRO:HG3	2.44	0.53
1:X:229:CYS:SG	1:Y:396:TYR:CD1	2.92	0.53
1:a:577:VAL:O	1:a:591:GLY:N	2.41	0.53
1:j:254:HIS:CD2	1:j:650:PRO:HG3	2.44	0.53
1:k:608:ASP:OD1	1:k:726:THR:HG22	2.08	0.53
1:o:229:CYS:SG	1:7:396:TYR:CD1	2.92	0.53
1:t:388:ARG:HH22	1:v:562:GLU:HG3	1.72	0.53
1:v:534:MET:HG2	1:v:535:HIS:CD2	2.43	0.53
1:4:254:HIS:CD2	1:4:650:PRO:HG3	2.44	0.53
1:5:448:GLN:NE2	1:5:454:GLN:HB3	2.18	0.53
1:7:412:TYR:OH	1:7:639:HIS:O	2.25	0.53
1:A:448:GLN:NE2	1:A:454:GLN:HB3	2.18	0.53
1:B:577:VAL:O	1:B:591:GLY:N	2.41	0.53
1:C:412:TYR:OH	1:C:639:HIS:O	2.25	0.53
1:I:254:HIS:CD2	1:I:650:PRO:HG3	2.44	0.53
1:M:412:TYR:OH	1:M:639:HIS:O	2.25	0.53
1:S:254:HIS:CD2	1:S:650:PRO:HG3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:577:VAL:O	1:V:591:GLY:N	2.41	0.53
1:a:254:HIS:CD2	1:a:650:PRO:HG3	2.44	0.53
1:l:276:THR:OG1	1:l:374:TYR:O	2.20	0.53
1:p:577:VAL:O	1:p:591:GLY:N	2.41	0.53
1:v:448:GLN:NE2	1:v:454:GLN:HB3	2.18	0.53
1:v:577:VAL:O	1:v:591:GLY:N	2.41	0.53
1:w:562:GLU:HG3	1:x:388:ARG:HH22	1.73	0.53
1:2:254:HIS:CD2	1:2:650:PRO:HG3	2.44	0.53
1:3:254:HIS:CD2	1:3:650:PRO:HG3	2.44	0.53
1:C:388:ARG:HH22	1:M:562:GLU:HG3	1.72	0.53
1:D:608:ASP:OD1	1:D:726:THR:HG22	2.07	0.53
1:F:276:THR:OG1	1:F:374:TYR:O	2.20	0.53
1:J:254:HIS:CD2	1:J:650:PRO:HG3	2.44	0.53
1:K:254:HIS:CD2	1:K:650:PRO:HG3	2.44	0.53
1:N:254:HIS:CD2	1:N:650:PRO:HG3	2.44	0.53
1:O:388:ARG:HH22	1:n:562:GLU:HG3	1.72	0.53
1:X:254:HIS:CD2	1:X:650:PRO:HG3	2.44	0.53
1:Y:412:TYR:OH	1:Y:639:HIS:O	2.25	0.53
1:d:562:GLU:HG3	1:l:388:ARG:HH22	1.72	0.53
1:g:412:TYR:OH	1:g:639:HIS:O	2.25	0.53
1:h:254:HIS:CD2	1:h:650:PRO:HG3	2.44	0.53
1:o:254:HIS:CD2	1:o:650:PRO:HG3	2.44	0.53
1:r:254:HIS:CD2	1:r:650:PRO:HG3	2.44	0.53
1:r:577:VAL:O	1:r:591:GLY:N	2.41	0.53
1:y:534:MET:HG2	1:y:535:HIS:CD2	2.43	0.53
1:y:577:VAL:O	1:y:591:GLY:N	2.41	0.53
1:1:254:HIS:CD2	1:1:650:PRO:HG3	2.44	0.53
1:7:577:VAL:O	1:7:591:GLY:N	2.41	0.53
1:A:577:VAL:O	1:A:591:GLY:N	2.41	0.53
1:C:577:VAL:O	1:C:591:GLY:N	2.41	0.53
1:F:388:ARG:HH22	1:Q:562:GLU:HG3	1.72	0.53
1:F:577:VAL:O	1:F:591:GLY:N	2.41	0.53
1:R:254:HIS:CD2	1:R:650:PRO:HG3	2.44	0.53
1:S:577:VAL:O	1:S:591:GLY:N	2.41	0.53
1:V:254:HIS:CD2	1:V:650:PRO:HG3	2.44	0.53
1:Z:534:MET:HG2	1:Z:535:HIS:CD2	2.43	0.53
1:g:388:ARG:HH22	1:h:562:GLU:HG3	1.72	0.53
1:i:254:HIS:CD2	1:i:650:PRO:HG3	2.44	0.53
1:l:448:GLN:NE2	1:l:454:GLN:HB3	2.18	0.53
1:q:254:HIS:CD2	1:q:650:PRO:HG3	2.44	0.53
1:x:412:TYR:OH	1:x:639:HIS:O	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:562:GLU:HG3	1:y:388:ARG:HH22	1.72	0.53
1:1:577:VAL:O	1:1:591:GLY:N	2.41	0.53
1:4:412:TYR:OH	1:4:639:HIS:O	2.25	0.53
1:B:254:HIS:CD2	1:B:650:PRO:HG3	2.44	0.53
1:C:282:ASP:HB3	1:C:353:LEU:HD11	1.91	0.53
1:K:412:TYR:OH	1:K:639:HIS:O	2.25	0.53
1:Q:254:HIS:CD2	1:Q:650:PRO:HG3	2.44	0.53
1:Q:282:ASP:HB3	1:Q:353:LEU:HD11	1.91	0.53
1:X:448:GLN:NE2	1:X:454:GLN:HB3	2.18	0.53
1:Y:577:VAL:O	1:Y:591:GLY:N	2.41	0.53
1:Z:577:VAL:O	1:Z:591:GLY:N	2.41	0.53
1:a:412:TYR:OH	1:a:639:HIS:O	2.25	0.53
1:f:577:VAL:O	1:f:591:GLY:N	2.41	0.53
1:g:577:VAL:O	1:g:591:GLY:N	2.41	0.53
1:m:254:HIS:CD2	1:m:650:PRO:HG3	2.44	0.53
1:x:254:HIS:CD2	1:x:650:PRO:HG3	2.44	0.53
1:x:282:ASP:HB3	1:x:353:LEU:HD11	1.91	0.53
1:8:577:VAL:O	1:8:591:GLY:N	2.41	0.53
1:E:282:ASP:HB3	1:E:353:LEU:HD11	1.91	0.52
1:O:276:THR:OG1	1:O:374:TYR:O	2.21	0.52
1:Q:412:TYR:OH	1:Q:639:HIS:O	2.25	0.52
1:Q:673:THR:HG21	1:S:652:PRO:HD2	1.91	0.52
1:b:254:HIS:CD2	1:b:650:PRO:HG3	2.44	0.52
1:b:577:VAL:O	1:b:591:GLY:N	2.41	0.52
1:f:282:ASP:HB3	1:f:353:LEU:HD11	1.91	0.52
1:g:282:ASP:HB3	1:g:353:LEU:HD11	1.91	0.52
1:l:254:HIS:CD2	1:l:650:PRO:HG3	2.44	0.52
1:o:448:GLN:NE2	1:o:454:GLN:HB3	2.18	0.52
1:p:254:HIS:CD2	1:p:650:PRO:HG3	2.44	0.52
1:u:282:ASP:HB3	1:u:353:LEU:HD11	1.91	0.52
1:y:254:HIS:CD2	1:y:650:PRO:HG3	2.44	0.52
1:z:577:VAL:O	1:z:591:GLY:N	2.41	0.52
1:3:412:TYR:OH	1:3:639:HIS:O	2.25	0.52
1:5:287:HIS:HD2	1:5:612:GLN:HB3	1.75	0.52
1:A:282:ASP:HB3	1:A:353:LEU:HD11	1.91	0.52
1:A:652:PRO:HD2	1:B:673:THR:HG21	1.91	0.52
1:C:287:HIS:HD2	1:C:612:GLN:HB3	1.75	0.52
1:H:282:ASP:HB3	1:H:353:LEU:HD11	1.91	0.52
1:H:287:HIS:HD2	1:H:612:GLN:HB3	1.75	0.52
1:L:577:VAL:O	1:L:591:GLY:N	2.41	0.52
1:O:254:HIS:CD2	1:O:650:PRO:HG3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:282:ASP:HB3	1:O:353:LEU:HD11	1.91	0.52
1:P:282:ASP:HB3	1:P:353:LEU:HD11	1.91	0.52
1:T:254:HIS:CD2	1:T:650:PRO:HG3	2.44	0.52
1:Y:254:HIS:CD2	1:Y:650:PRO:HG3	2.44	0.52
1:Z:282:ASP:HB3	1:Z:353:LEU:HD11	1.91	0.52
1:b:282:ASP:HB3	1:b:353:LEU:HD11	1.92	0.52
1:f:254:HIS:CD2	1:f:650:PRO:HG3	2.44	0.52
1:k:254:HIS:CD2	1:k:650:PRO:HG3	2.44	0.52
1:p:282:ASP:HB3	1:p:353:LEU:HD11	1.91	0.52
1:q:412:TYR:OH	1:q:639:HIS:O	2.25	0.52
1:r:652:PRO:HD2	1:x:673:THR:HG21	1.91	0.52
1:t:448:GLN:NE2	1:t:454:GLN:HB3	2.18	0.52
1:u:577:VAL:O	1:u:591:GLY:N	2.41	0.52
1:v:282:ASP:HB3	1:v:353:LEU:HD11	1.91	0.52
1:w:282:ASP:HB3	1:w:353:LEU:HD11	1.91	0.52
1:5:282:ASP:HB3	1:5:353:LEU:HD11	1.91	0.52
1:8:534:MET:HG2	1:8:535:HIS:CD2	2.43	0.52
1:F:254:HIS:CD2	1:F:650:PRO:HG3	2.44	0.52
1:I:282:ASP:HB3	1:I:353:LEU:HD11	1.92	0.52
1:O:673:THR:HG21	1:P:652:PRO:HD2	1.92	0.52
1:R:424:ALA:O	1:R:730:THR:HA	2.10	0.52
1:V:282:ASP:HB3	1:V:353:LEU:HD11	1.91	0.52
1:d:577:VAL:O	1:d:591:GLY:N	2.41	0.52
1:g:287:HIS:HD2	1:g:612:GLN:HB3	1.75	0.52
1:j:282:ASP:HB3	1:j:353:LEU:HD11	1.91	0.52
1:j:652:PRO:HD2	1:l:673:THR:HG21	1.92	0.52
1:l:412:TYR:OH	1:l:639:HIS:O	2.25	0.52
1:A:562:GLU:HG3	1:G:388:ARG:HH22	1.73	0.52
1:B:424:ALA:O	1:B:730:THR:HA	2.10	0.52
1:G:673:THR:HG21	1:W:652:PRO:HD2	1.91	0.52
1:I:577:VAL:O	1:I:591:GLY:N	2.41	0.52
1:I:673:THR:HG21	1:J:652:PRO:HD2	1.91	0.52
1:J:577:VAL:O	1:J:591:GLY:N	2.41	0.52
1:L:254:HIS:CD2	1:L:650:PRO:HG3	2.44	0.52
1:O:412:TYR:OH	1:O:639:HIS:O	2.25	0.52
1:T:282:ASP:HB3	1:T:353:LEU:HD11	1.91	0.52
1:X:673:THR:HG21	1:Y:652:PRO:HD2	1.91	0.52
1:d:287:HIS:HD2	1:d:612:GLN:HB3	1.75	0.52
1:l:282:ASP:HB3	1:l:353:LEU:HD11	1.92	0.52
1:m:282:ASP:HB3	1:m:353:LEU:HD11	1.91	0.52
1:n:287:HIS:HD2	1:n:612:GLN:HB3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:577:VAL:O	1:n:591:GLY:N	2.41	0.52
1:q:424:ALA:O	1:q:730:THR:HA	2.10	0.52
1:s:287:HIS:HD2	1:s:612:GLN:HB3	1.75	0.52
1:t:287:HIS:HD2	1:t:612:GLN:HB3	1.75	0.52
1:u:673:THR:HG21	1:2:652:PRO:HD2	1.91	0.52
1:v:673:THR:HG21	1:w:652:PRO:HD2	1.91	0.52
1:y:282:ASP:HB3	1:y:353:LEU:HD11	1.91	0.52
1:z:254:HIS:CD2	1:z:650:PRO:HG3	2.44	0.52
1:3:229:CYS:SG	1:8:396:TYR:CD1	2.92	0.52
1:3:276:THR:OG1	1:3:374:TYR:O	2.20	0.52
1:7:254:HIS:CD2	1:7:650:PRO:HG3	2.44	0.52
1:8:282:ASP:HB3	1:8:353:LEU:HD11	1.91	0.52
1:C:652:PRO:HD2	1:D:673:THR:HG21	1.91	0.52
1:D:254:HIS:CD2	1:D:650:PRO:HG3	2.44	0.52
1:F:282:ASP:HB3	1:F:353:LEU:HD11	1.91	0.52
1:G:287:HIS:HD2	1:G:612:GLN:HB3	1.75	0.52
1:G:448:GLN:NE2	1:G:454:GLN:HB3	2.18	0.52
1:H:254:HIS:CD2	1:H:650:PRO:HG3	2.44	0.52
1:H:424:ALA:O	1:H:730:THR:HA	2.10	0.52
1:J:424:ALA:O	1:J:730:THR:HA	2.10	0.52
1:M:448:GLN:NE2	1:M:454:GLN:HB3	2.18	0.52
1:U:287:HIS:HD2	1:U:612:GLN:HB3	1.75	0.52
1:V:652:PRO:HD2	1:W:673:THR:HG21	1.91	0.52
1:Y:287:HIS:HD2	1:Y:612:GLN:HB3	1.75	0.52
1:e:254:HIS:CD2	1:e:650:PRO:HG3	2.44	0.52
1:j:287:HIS:HD2	1:j:612:GLN:HB3	1.75	0.52
1:p:652:PRO:HD2	1:6:673:THR:HG21	1.92	0.52
1:1:424:ALA:O	1:1:730:THR:HA	2.10	0.52
1:2:287:HIS:HD2	1:2:612:GLN:HB3	1.75	0.52
1:2:577:VAL:O	1:2:591:GLY:N	2.41	0.52
1:6:287:HIS:HD2	1:6:612:GLN:HB3	1.75	0.52
1:7:287:HIS:HD2	1:7:612:GLN:HB3	1.75	0.52
1:B:282:ASP:HB3	1:B:353:LEU:HD11	1.92	0.52
1:B:287:HIS:HD2	1:B:612:GLN:HB3	1.75	0.52
1:G:282:ASP:HB3	1:G:353:LEU:HD11	1.91	0.52
1:J:287:HIS:HD2	1:J:612:GLN:HB3	1.75	0.52
1:K:287:HIS:HD2	1:K:612:GLN:HB3	1.75	0.52
1:L:287:HIS:HD2	1:L:612:GLN:HB3	1.75	0.52
1:L:424:ALA:O	1:L:730:THR:HA	2.10	0.52
1:P:424:ALA:O	1:P:730:THR:HA	2.10	0.52
1:R:412:TYR:OH	1:R:639:HIS:O	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:424:ALA:O	1:T:730:THR:HA	2.10	0.52
1:V:448:GLN:NE2	1:V:454:GLN:HB3	2.18	0.52
1:W:287:HIS:HD2	1:W:612:GLN:HB3	1.75	0.52
1:Y:282:ASP:HB3	1:Y:353:LEU:HD11	1.91	0.52
1:o:673:THR:HG21	1:7:652:PRO:HD2	1.91	0.52
1:r:412:TYR:OH	1:r:639:HIS:O	2.25	0.52
1:t:673:THR:HG21	1:6:652:PRO:HD2	1.92	0.52
1:z:424:ALA:O	1:z:730:THR:HA	2.10	0.52
1:2:424:ALA:O	1:2:730:THR:HA	2.10	0.52
1:4:287:HIS:HD2	1:4:612:GLN:HB3	1.75	0.52
1:5:424:ALA:O	1:5:730:THR:HA	2.10	0.52
1:E:254:HIS:CD2	1:E:650:PRO:HG3	2.44	0.52
1:F:424:ALA:O	1:F:730:THR:HA	2.10	0.52
1:O:652:PRO:HD2	1:d:673:THR:HG21	1.92	0.52
1:P:287:HIS:HD2	1:P:612:GLN:HB3	1.75	0.52
1:U:254:HIS:CD2	1:U:650:PRO:HG3	2.44	0.52
1:g:652:PRO:HD2	1:k:673:THR:HG21	1.92	0.52
1:h:282:ASP:HB3	1:h:353:LEU:HD11	1.91	0.52
1:j:276:THR:OG1	1:j:374:TYR:O	2.20	0.52
1:j:424:ALA:O	1:j:730:THR:HA	2.10	0.52
1:m:424:ALA:O	1:m:730:THR:HA	2.10	0.52
1:p:448:GLN:NE2	1:p:454:GLN:HB3	2.18	0.52
1:s:254:HIS:CD2	1:s:650:PRO:HG3	2.44	0.52
1:w:254:HIS:CD2	1:w:650:PRO:HG3	2.44	0.52
1:w:448:GLN:NE2	1:w:454:GLN:HB3	2.18	0.52
1:x:448:GLN:NE2	1:x:454:GLN:HB3	2.18	0.52
1:1:287:HIS:HD2	1:1:612:GLN:HB3	1.75	0.52
1:2:448:GLN:NE2	1:2:454:GLN:HB3	2.18	0.52
1:3:287:HIS:HD2	1:3:612:GLN:HB3	1.75	0.52
1:5:254:HIS:CD2	1:5:650:PRO:HG3	2.44	0.52
1:E:287:HIS:HD2	1:E:612:GLN:HB3	1.75	0.52
1:O:424:ALA:O	1:O:730:THR:HA	2.10	0.52
1:P:276:THR:OG1	1:P:374:TYR:O	2.21	0.52
1:Q:448:GLN:NE2	1:Q:454:GLN:HB3	2.18	0.52
1:a:276:THR:OG1	1:a:374:TYR:O	2.20	0.52
1:a:287:HIS:HD2	1:a:612:GLN:HB3	1.75	0.52
1:c:254:HIS:CD2	1:c:650:PRO:HG3	2.44	0.52
1:i:424:ALA:O	1:i:730:THR:HA	2.10	0.52
1:l:424:ALA:O	1:l:730:THR:HA	2.10	0.52
1:l:652:PRO:HD2	1:n:673:THR:HG21	1.92	0.52
1:o:287:HIS:HD2	1:o:612:GLN:HB3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:282:ASP:HB3	1:t:353:LEU:HD11	1.92	0.52
1:v:652:PRO:HD2	1:l:673:THR:HG21	1.92	0.52
1:w:287:HIS:HD2	1:w:612:GLN:HB3	1.75	0.52
1:y:287:HIS:HD2	1:y:612:GLN:HB3	1.75	0.52
1:y:424:ALA:O	1:y:730:THR:HA	2.10	0.52
1:z:287:HIS:HD2	1:z:612:GLN:HB3	1.75	0.52
1:1:282:ASP:HB3	1:1:353:LEU:HD11	1.92	0.52
1:7:282:ASP:HB3	1:7:353:LEU:HD11	1.91	0.52
1:E:448:GLN:NE2	1:E:454:GLN:HB3	2.18	0.52
1:F:287:HIS:HD2	1:F:612:GLN:HB3	1.75	0.52
1:K:282:ASP:HB3	1:K:353:LEU:HD11	1.91	0.52
1:M:282:ASP:HB3	1:M:353:LEU:HD11	1.92	0.52
1:M:673:THR:HG21	1:N:652:PRO:HD2	1.91	0.52
1:N:424:ALA:O	1:N:730:THR:HA	2.10	0.52
1:S:412:TYR:OH	1:S:639:HIS:O	2.25	0.52
1:V:424:ALA:O	1:V:730:THR:HA	2.10	0.52
1:X:287:HIS:HD2	1:X:612:GLN:HB3	1.75	0.52
1:c:282:ASP:HB3	1:c:353:LEU:HD11	1.91	0.52
1:d:424:ALA:O	1:d:730:THR:HA	2.10	0.52
1:h:448:GLN:NE2	1:h:454:GLN:HB3	2.18	0.52
1:h:673:THR:HG21	1:i:652:PRO:HD2	1.91	0.52
1:o:282:ASP:HB3	1:o:353:LEU:HD11	1.91	0.52
1:o:424:ALA:O	1:o:730:THR:HA	2.10	0.52
1:o:577:VAL:O	1:o:591:GLY:N	2.41	0.52
1:p:424:ALA:O	1:p:730:THR:HA	2.10	0.52
1:u:448:GLN:NE2	1:u:454:GLN:HB3	2.18	0.52
1:w:424:ALA:O	1:w:730:THR:HA	2.10	0.52
1:4:424:ALA:O	1:4:730:THR:HA	2.10	0.52
1:5:577:VAL:O	1:5:591:GLY:N	2.41	0.52
1:F:652:PRO:HD2	1:R:673:THR:HG21	1.92	0.52
1:G:351:TYR:HA	1:G:643:GLN:NE2	2.25	0.52
1:I:448:GLN:NE2	1:I:454:GLN:HB3	2.18	0.52
1:J:448:GLN:NE2	1:J:454:GLN:HB3	2.18	0.52
1:K:424:ALA:O	1:K:730:THR:HA	2.10	0.52
1:Q:424:ALA:O	1:Q:730:THR:HA	2.10	0.52
1:V:224:SER:HG	1:V:316:ASN:H	1.58	0.52
1:X:282:ASP:HB3	1:X:353:LEU:HD11	1.91	0.52
1:X:424:ALA:O	1:X:730:THR:HA	2.10	0.52
1:e:282:ASP:HB3	1:e:353:LEU:HD11	1.91	0.52
1:k:424:ALA:O	1:k:730:THR:HA	2.10	0.52
1:m:412:TYR:OH	1:m:639:HIS:O	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:228[A]:HIS:O	1:n:243:THR:OG1	2.25	0.52
1:n:424:ALA:O	1:n:730:THR:HA	2.10	0.52
1:r:282:ASP:HB3	1:r:353:LEU:HD11	1.92	0.52
1:t:351:TYR:HA	1:t:643:GLN:NE2	2.25	0.52
1:8:424:ALA:O	1:8:730:THR:HA	2.10	0.52
1:A:673:THR:HG21	1:E:652:PRO:HD2	1.92	0.51
1:E:424:ALA:O	1:E:730:THR:HA	2.10	0.51
1:E:577:VAL:O	1:E:591:GLY:N	2.41	0.51
1:P:673:THR:HG21	1:Q:652:PRO:HD2	1.92	0.51
1:R:577:VAL:O	1:R:591:GLY:N	2.41	0.51
1:S:673:THR:HG21	1:d:652:PRO:HD2	1.92	0.51
1:U:282:ASP:HB3	1:U:353:LEU:HD11	1.91	0.51
1:X:577:VAL:O	1:X:591:GLY:N	2.41	0.51
1:Z:424:ALA:O	1:Z:730:THR:HA	2.10	0.51
1:i:282:ASP:HB3	1:i:353:LEU:HD11	1.91	0.51
1:q:673:THR:HG21	1:y:652:PRO:HD2	1.92	0.51
1:s:228[A]:HIS:O	1:s:243:THR:OG1	2.25	0.51
1:v:430:ASP:HB2	1:v:473:LYS:HE2	1.93	0.51
1:w:577:VAL:O	1:w:591:GLY:N	2.41	0.51
1:x:424:ALA:O	1:x:730:THR:HA	2.10	0.51
1:4:282:ASP:HB3	1:4:353:LEU:HD11	1.92	0.51
1:A:430:ASP:HB2	1:A:473:LYS:HE2	1.93	0.51
1:B:652:PRO:HD2	1:C:673:THR:HG21	1.92	0.51
1:H:577:VAL:O	1:H:591:GLY:N	2.41	0.51
1:N:282:ASP:HB3	1:N:353:LEU:HD11	1.91	0.51
1:S:282:ASP:HB3	1:S:353:LEU:HD11	1.92	0.51
1:S:287:HIS:HD2	1:S:612:GLN:HB3	1.75	0.51
1:m:287:HIS:HD2	1:m:612:GLN:HB3	1.75	0.51
1:n:652:PRO:HD2	1:r:673:THR:HG21	1.92	0.51
1:p:224:SER:HG	1:p:316:ASN:H	1.58	0.51
1:q:577:VAL:O	1:q:591:GLY:N	2.41	0.51
1:r:287:HIS:HD2	1:r:612:GLN:HB3	1.75	0.51
1:v:287:HIS:HD2	1:v:612:GLN:HB3	1.75	0.51
1:D:424:ALA:O	1:D:730:THR:HA	2.10	0.51
1:E:351:TYR:HA	1:E:643:GLN:NE2	2.26	0.51
1:H:351:TYR:HA	1:H:643:GLN:NE2	2.26	0.51
1:I:424:ALA:O	1:I:730:THR:HA	2.10	0.51
1:K:652:PRO:HD2	1:7:673:THR:HG21	1.92	0.51
1:L:282:ASP:HB3	1:L:353:LEU:HD11	1.91	0.51
1:T:287:HIS:HD2	1:T:612:GLN:HB3	1.75	0.51
1:T:412:TYR:OH	1:T:639:HIS:O	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:424:ALA:O	1:W:730:THR:HA	2.10	0.51
1:Y:673:THR:HG21	1:4:652:PRO:HD2	1.92	0.51
1:d:228[A]:HIS:O	1:d:243:THR:OG1	2.25	0.51
1:e:424:ALA:O	1:e:730:THR:HA	2.10	0.51
1:f:276:THR:OG1	1:f:374:TYR:O	2.20	0.51
1:g:673:THR:HG21	1:1:652:PRO:HD2	1.92	0.51
1:j:673:THR:HG21	1:x:652:PRO:HD2	1.92	0.51
1:s:282:ASP:HB3	1:s:353:LEU:HD11	1.91	0.51
1:u:424:ALA:O	1:u:730:THR:HA	2.10	0.51
1:w:351:TYR:HA	1:w:643:GLN:NE2	2.25	0.51
1:x:287:HIS:HD2	1:x:612:GLN:HB3	1.75	0.51
1:5:430:ASP:HB2	1:5:473:LYS:HE2	1.93	0.51
1:A:287:HIS:HD2	1:A:612:GLN:HB3	1.75	0.51
1:A:424:ALA:O	1:A:730:THR:HA	2.10	0.51
1:B:430:ASP:HB2	1:B:473:LYS:HE2	1.93	0.51
1:H:430:ASP:HB2	1:H:473:LYS:HE2	1.93	0.51
1:I:287:HIS:HD2	1:I:612:GLN:HB3	1.75	0.51
1:J:351:TYR:HA	1:J:643:GLN:NE2	2.26	0.51
1:L:673:THR:HG21	1:b:652:PRO:HD2	1.92	0.51
1:N:287:HIS:HD2	1:N:612:GLN:HB3	1.75	0.51
1:O:287:HIS:HD2	1:O:612:GLN:HB3	1.75	0.51
1:O:351:TYR:HA	1:O:643:GLN:NE2	2.26	0.51
1:P:351:TYR:HA	1:P:643:GLN:NE2	2.26	0.51
1:R:652:PRO:HD2	1:V:673:THR:HG21	1.92	0.51
1:S:351:TYR:HA	1:S:643:GLN:NE2	2.26	0.51
1:W:282:ASP:HB3	1:W:353:LEU:HD11	1.91	0.51
1:a:424:ALA:O	1:a:730:THR:HA	2.10	0.51
1:b:673:THR:HG21	1:o:652:PRO:HD2	1.92	0.51
1:d:351:TYR:HA	1:d:643:GLN:NE2	2.26	0.51
1:f:652:PRO:HD2	1:z:673:THR:HG21	1.92	0.51
1:j:351:TYR:HA	1:j:643:GLN:NE2	2.25	0.51
1:l:287:HIS:HD2	1:l:612:GLN:HB3	1.75	0.51
1:l:351:TYR:HA	1:l:643:GLN:NE2	2.26	0.51
1:n:351:TYR:HA	1:n:643:GLN:NE2	2.26	0.51
1:q:287:HIS:HD2	1:q:612:GLN:HB3	1.75	0.51
1:r:351:TYR:HA	1:r:643:GLN:NE2	2.26	0.51
1:1:430:ASP:HB2	1:1:473:LYS:HE2	1.93	0.51
1:5:351:TYR:HA	1:5:643:GLN:NE2	2.25	0.51
1:6:424:ALA:O	1:6:730:THR:HA	2.10	0.51
1:8:351:TYR:HA	1:8:643:GLN:NE2	2.25	0.51
1:D:351:TYR:HA	1:D:643:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:424:ALA:O	1:G:730:THR:HA	2.10	0.51
1:O:561:GLU:O	1:O:564:ARG:HG3	2.11	0.51
1:O:577:VAL:O	1:O:591:GLY:N	2.41	0.51
1:Q:287:HIS:HD2	1:Q:612:GLN:HB3	1.75	0.51
1:Q:351:TYR:HA	1:Q:643:GLN:NE2	2.25	0.51
1:Q:561:GLU:O	1:Q:564:ARG:HG3	2.11	0.51
1:R:228[A]:HIS:O	1:R:243:THR:OG1	2.25	0.51
1:R:287:HIS:HD2	1:R:612:GLN:HB3	1.75	0.51
1:S:424:ALA:O	1:S:730:THR:HA	2.10	0.51
1:X:652:PRO:HD2	1:f:673:THR:HG21	1.92	0.51
1:a:282:ASP:HB3	1:a:353:LEU:HD11	1.92	0.51
1:b:276:THR:OG1	1:b:374:TYR:O	2.20	0.51
1:c:424:ALA:O	1:c:730:THR:HA	2.10	0.51
1:d:282:ASP:HB3	1:d:353:LEU:HD11	1.91	0.51
1:h:351:TYR:HA	1:h:643:GLN:NE2	2.26	0.51
1:i:287:HIS:HD2	1:i:612:GLN:HB3	1.75	0.51
1:l:561:GLU:O	1:l:564:ARG:HG3	2.11	0.51
1:n:448:GLN:NE2	1:n:454:GLN:HB3	2.18	0.51
1:p:673:THR:HG21	1:q:652:PRO:HD2	1.92	0.51
1:v:424:ALA:O	1:v:730:THR:HA	2.10	0.51
1:x:351:TYR:HA	1:x:643:GLN:NE2	2.26	0.51
1:z:282:ASP:HB3	1:z:353:LEU:HD11	1.92	0.51
1:2:351:TYR:HA	1:2:643:GLN:NE2	2.26	0.51
1:3:282:ASP:HB3	1:3:353:LEU:HD11	1.91	0.51
1:3:424:ALA:O	1:3:730:THR:HA	2.10	0.51
1:3:561:GLU:O	1:3:564:ARG:HG3	2.11	0.51
1:7:351:TYR:HA	1:7:643:GLN:NE2	2.26	0.51
1:C:424:ALA:O	1:C:730:THR:HA	2.10	0.51
1:E:561:GLU:O	1:E:564:ARG:HG3	2.11	0.51
1:I:430:ASP:HB2	1:I:473:LYS:HE2	1.93	0.51
1:K:561:GLU:O	1:K:564:ARG:HG3	2.11	0.51
1:M:351:TYR:HA	1:M:643:GLN:NE2	2.25	0.51
1:O:228[A]:HIS:O	1:O:243:THR:OG1	2.25	0.51
1:V:351:TYR:HA	1:V:643:GLN:NE2	2.26	0.51
1:Y:351:TYR:HA	1:Y:643:GLN:NE2	2.26	0.51
1:Z:351:TYR:HA	1:Z:643:GLN:NE2	2.26	0.51
1:Z:412:TYR:OH	1:Z:639:HIS:O	2.25	0.51
1:a:561:GLU:O	1:a:564:ARG:HG3	2.11	0.51
1:e:673:THR:HG21	1:h:652:PRO:HD2	1.92	0.51
1:g:424:ALA:O	1:g:730:THR:HA	2.10	0.51
1:k:282:ASP:HB3	1:k:353:LEU:HD11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:351:TYR:HA	1:k:643:GLN:NE2	2.25	0.51
1:l:577:VAL:O	1:l:591:GLY:N	2.41	0.51
1:n:282:ASP:HB3	1:n:353:LEU:HD11	1.91	0.51
1:p:351:TYR:HA	1:p:643:GLN:NE2	2.26	0.51
1:u:430:ASP:HB2	1:u:473:LYS:HE2	1.93	0.51
1:x:561:GLU:O	1:x:564:ARG:HG3	2.11	0.51
1:3:351:TYR:HA	1:3:643:GLN:NE2	2.26	0.51
1:4:561:GLU:O	1:4:564:ARG:HG3	2.11	0.51
1:A:351:TYR:HA	1:A:643:GLN:NE2	2.25	0.51
1:K:351:TYR:HA	1:K:643:GLN:NE2	2.26	0.51
1:N:351:TYR:HA	1:N:643:GLN:NE2	2.25	0.51
1:R:430:ASP:HB2	1:R:473:LYS:HE2	1.93	0.51
1:T:673:THR:HG21	1:U:652:PRO:HD2	1.92	0.51
1:U:351:TYR:HA	1:U:643:GLN:NE2	2.26	0.51
1:U:424:ALA:O	1:U:730:THR:HA	2.10	0.51
1:W:577:VAL:O	1:W:591:GLY:N	2.41	0.51
1:Z:287:HIS:HD2	1:Z:612:GLN:HB3	1.75	0.51
1:c:561:GLU:O	1:c:564:ARG:HG3	2.11	0.51
1:g:351:TYR:HA	1:g:643:GLN:NE2	2.25	0.51
1:k:448:GLN:NE2	1:k:454:GLN:HB3	2.18	0.51
1:q:282:ASP:HB3	1:q:353:LEU:HD11	1.91	0.51
1:r:424:ALA:O	1:r:730:THR:HA	2.10	0.51
1:s:351:TYR:HA	1:s:643:GLN:NE2	2.26	0.51
1:t:424:ALA:O	1:t:730:THR:HA	2.10	0.51
1:v:351:TYR:HA	1:v:643:GLN:NE2	2.25	0.51
1:2:673:THR:HG21	1:3:652:PRO:HD2	1.92	0.51
1:6:282:ASP:HB3	1:6:353:LEU:HD11	1.92	0.51
1:7:424:ALA:O	1:7:730:THR:HA	2.10	0.51
1:C:351:TYR:HA	1:C:643:GLN:NE2	2.25	0.51
1:D:282:ASP:HB3	1:D:353:LEU:HD11	1.91	0.51
1:F:673:THR:HG21	1:G:652:PRO:HD2	1.91	0.51
1:J:276:THR:OG1	1:J:374:TYR:O	2.20	0.51
1:J:282:ASP:HB3	1:J:353:LEU:HD11	1.92	0.51
1:J:561:GLU:O	1:J:564:ARG:HG3	2.11	0.51
1:J:673:THR:HG21	1:a:652:PRO:HD2	1.92	0.51
1:M:652:PRO:HD2	1:c:673:THR:HG21	1.92	0.51
1:R:282:ASP:HB3	1:R:353:LEU:HD11	1.91	0.51
1:S:430:ASP:HB2	1:S:473:LYS:HE2	1.93	0.51
1:T:430:ASP:HB2	1:T:473:LYS:HE2	1.93	0.51
1:Y:424:ALA:O	1:Y:730:THR:HA	2.10	0.51
1:a:351:TYR:HA	1:a:643:GLN:NE2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:577:VAL:O	1:c:591:GLY:N	2.41	0.51
1:d:430:ASP:HB2	1:d:473:LYS:HE2	1.93	0.51
1:d:448:GLN:NE2	1:d:454:GLN:HB3	2.18	0.51
1:e:561:GLU:O	1:e:564:ARG:HG3	2.11	0.51
1:h:287:HIS:HD2	1:h:612:GLN:HB3	1.75	0.51
1:i:351:TYR:HA	1:i:643:GLN:NE2	2.26	0.51
1:n:430:ASP:HB2	1:n:473:LYS:HE2	1.93	0.51
1:n:561:GLU:O	1:n:564:ARG:HG3	2.11	0.51
1:q:430:ASP:HB2	1:q:473:LYS:HE2	1.93	0.51
1:t:652:PRO:HD2	1:y:673:THR:HG21	1.91	0.51
1:u:287:HIS:HD2	1:u:612:GLN:HB3	1.75	0.51
1:u:351:TYR:HA	1:u:643:GLN:NE2	2.26	0.51
1:w:561:GLU:O	1:w:564:ARG:HG3	2.11	0.51
1:z:351:TYR:HA	1:z:643:GLN:NE2	2.26	0.51
1:2:561:GLU:O	1:2:564:ARG:HG3	2.11	0.51
1:4:351:TYR:HA	1:4:643:GLN:NE2	2.26	0.51
1:6:577:VAL:O	1:6:591:GLY:N	2.41	0.51
1:8:287:HIS:HD2	1:8:612:GLN:HB3	1.75	0.51
1:D:287:HIS:HD2	1:D:612:GLN:HB3	1.75	0.51
1:E:430:ASP:HB2	1:E:473:LYS:HE2	1.93	0.51
1:F:430:ASP:HB2	1:F:473:LYS:HE2	1.93	0.51
1:G:561:GLU:O	1:G:564:ARG:HG3	2.11	0.51
1:I:351:TYR:HA	1:I:643:GLN:NE2	2.26	0.51
1:K:673:THR:HG21	1:L:652:PRO:HD2	1.92	0.51
1:L:351:TYR:HA	1:L:643:GLN:NE2	2.26	0.51
1:L:561:GLU:O	1:L:564:ARG:HG3	2.11	0.51
1:M:561:GLU:O	1:M:564:ARG:HG3	2.11	0.51
1:P:561:GLU:O	1:P:564:ARG:HG3	2.11	0.51
1:V:430:ASP:HB2	1:V:473:LYS:HE2	1.93	0.51
1:W:561:GLU:O	1:W:564:ARG:HG3	2.11	0.51
1:X:228[A]:HIS:O	1:X:243:THR:OG1	2.25	0.51
1:d:561:GLU:O	1:d:564:ARG:HG3	2.11	0.51
1:e:287:HIS:HD2	1:e:612:GLN:HB3	1.75	0.51
1:f:561:GLU:O	1:f:564:ARG:HG3	2.11	0.51
1:h:561:GLU:O	1:h:564:ARG:HG3	2.11	0.51
1:i:561:GLU:O	1:i:564:ARG:HG3	2.11	0.51
1:j:561:GLU:O	1:j:564:ARG:HG3	2.11	0.51
1:m:673:THR:HG21	1:s:652:PRO:HD2	1.92	0.51
1:p:287:HIS:HD2	1:p:612:GLN:HB3	1.75	0.51
1:p:430:ASP:HB2	1:p:473:LYS:HE2	1.93	0.51
1:r:430:ASP:HB2	1:r:473:LYS:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:424:ALA:O	1:s:730:THR:HA	2.10	0.51
1:t:561:GLU:O	1:t:564:ARG:HG3	2.11	0.51
1:w:430:ASP:HB2	1:w:473:LYS:HE2	1.93	0.51
1:y:430:ASP:HB2	1:y:473:LYS:HE2	1.93	0.51
1:2:276:THR:OG1	1:2:374:TYR:O	2.20	0.51
1:2:282:ASP:HB3	1:2:353:LEU:HD11	1.91	0.51
1:3:673:THR:HG21	1:8:652:PRO:HD2	1.92	0.51
1:6:448:GLN:NE2	1:6:454:GLN:HB3	2.18	0.51
1:M:430:ASP:HB2	1:M:473:LYS:HE2	1.93	0.51
1:N:561:GLU:O	1:N:564:ARG:HG3	2.11	0.51
1:P:430:ASP:HB2	1:P:473:LYS:HE2	1.93	0.51
1:R:351:TYR:HA	1:R:643:GLN:NE2	2.25	0.51
1:T:652:PRO:HD2	1:i:673:THR:HG21	1.92	0.51
1:X:561:GLU:O	1:X:564:ARG:HG3	2.11	0.51
1:b:561:GLU:O	1:b:564:ARG:HG3	2.11	0.51
1:c:287:HIS:HD2	1:c:612:GLN:HB3	1.75	0.51
1:c:351:TYR:HA	1:c:643:GLN:NE2	2.26	0.51
1:e:351:TYR:HA	1:e:643:GLN:NE2	2.26	0.51
1:e:577:VAL:O	1:e:591:GLY:N	2.41	0.51
1:f:351:TYR:HA	1:f:643:GLN:NE2	2.25	0.51
1:j:430:ASP:HB2	1:j:473:LYS:HE2	1.93	0.51
1:m:430:ASP:HB2	1:m:473:LYS:HE2	1.93	0.51
1:o:228[A]:HIS:O	1:o:243:THR:OG1	2.25	0.51
1:o:561:GLU:O	1:o:564:ARG:HG3	2.11	0.51
1:q:351:TYR:HA	1:q:643:GLN:NE2	2.25	0.51
1:t:396:TYR:CD1	1:y:229:CYS:SG	2.92	0.51
1:x:430:ASP:HB2	1:x:473:LYS:HE2	1.93	0.51
1:z:561:GLU:O	1:z:564:ARG:HG3	2.11	0.51
1:z:652:PRO:HD2	1:4:673:THR:HG21	1.92	0.51
1:6:561:GLU:O	1:6:564:ARG:HG3	2.11	0.51
1:M:287:HIS:HD2	1:M:612:GLN:HB3	1.75	0.50
1:M:424:ALA:O	1:M:730:THR:HA	2.10	0.50
1:N:673:THR:HG21	1:m:652:PRO:HD2	1.92	0.50
1:Q:276:THR:OG1	1:Q:374:TYR:O	2.20	0.50
1:Q:430:ASP:HB2	1:Q:473:LYS:HE2	1.93	0.50
1:T:351:TYR:HA	1:T:643:GLN:NE2	2.25	0.50
1:V:287:HIS:HD2	1:V:612:GLN:HB3	1.75	0.50
1:W:448:GLN:NE2	1:W:454:GLN:HB3	2.18	0.50
1:Z:430:ASP:HB2	1:Z:473:LYS:HE2	1.93	0.50
1:b:351:TYR:HA	1:b:643:GLN:NE2	2.26	0.50
1:h:424:ALA:O	1:h:730:THR:HA	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:430:ASP:HB2	1:h:473:LYS:HE2	1.93	0.50
1:k:287:HIS:HD2	1:k:612:GLN:HB3	1.75	0.50
1:k:430:ASP:HB2	1:k:473:LYS:HE2	1.93	0.50
1:k:561:GLU:O	1:k:564:ARG:HG3	2.11	0.50
1:m:351:TYR:HA	1:m:643:GLN:NE2	2.26	0.50
1:o:351:TYR:HA	1:o:643:GLN:NE2	2.25	0.50
1:x:276:THR:OG1	1:x:374:TYR:O	2.20	0.50
1:6:351:TYR:HA	1:6:643:GLN:NE2	2.25	0.50
1:8:430:ASP:HB2	1:8:473:LYS:HE2	1.93	0.50
1:D:448:GLN:NE2	1:D:454:GLN:HB3	2.18	0.50
1:H:652:PRO:HD2	1:Z:673:THR:HG21	1.91	0.50
1:R:396:TYR:CD1	1:V:229:CYS:SG	2.92	0.50
1:S:561:GLU:O	1:S:564:ARG:HG3	2.11	0.50
1:W:351:TYR:HA	1:W:643:GLN:NE2	2.25	0.50
1:X:351:TYR:HA	1:X:643:GLN:NE2	2.26	0.50
1:Z:652:PRO:HD2	1:a:673:THR:HG21	1.92	0.50
1:b:287:HIS:HD2	1:b:612:GLN:HB3	1.75	0.50
1:s:561:GLU:O	1:s:564:ARG:HG3	2.11	0.50
1:t:430:ASP:HB2	1:t:473:LYS:HE2	1.93	0.50
1:u:652:PRO:HD2	1:5:673:THR:HG21	1.92	0.50
1:1:351:TYR:HA	1:1:643:GLN:NE2	2.25	0.50
1:4:430:ASP:HB2	1:4:473:LYS:HE2	1.93	0.50
1:5:652:PRO:HD2	1:8:673:THR:HG21	1.92	0.50
1:C:561:GLU:O	1:C:564:ARG:HG3	2.11	0.50
1:D:430:ASP:HB2	1:D:473:LYS:HE2	1.93	0.50
1:D:561:GLU:O	1:D:564:ARG:HG3	2.11	0.50
1:F:229:CYS:SG	1:G:396:TYR:CD1	2.92	0.50
1:F:561:GLU:O	1:F:564:ARG:HG3	2.11	0.50
1:G:430:ASP:HB2	1:G:473:LYS:HE2	1.93	0.50
1:H:673:THR:HG21	1:I:652:PRO:HD2	1.92	0.50
1:K:430:ASP:HB2	1:K:473:LYS:HE2	1.93	0.50
1:K:448:GLN:NE2	1:K:454:GLN:HB3	2.18	0.50
1:U:561:GLU:O	1:U:564:ARG:HG3	2.11	0.50
1:Z:561:GLU:O	1:Z:564:ARG:HG3	2.11	0.50
1:c:652:PRO:HD2	1:s:673:THR:HG21	1.92	0.50
1:g:561:GLU:O	1:g:564:ARG:HG3	2.11	0.50
1:i:430:ASP:HB2	1:i:473:LYS:HE2	1.93	0.50
1:k:395:GLU:HG3	1:w:366:ALA:HB2	1.93	0.50
1:r:561:GLU:O	1:r:564:ARG:HG3	2.11	0.50
1:y:561:GLU:O	1:y:564:ARG:HG3	2.11	0.50
1:1:561:GLU:O	1:1:564:ARG:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:561:GLU:O	1:B:564:ARG:HG3	2.11	0.50
1:O:366:ALA:HB2	1:P:395:GLU:HG3	1.94	0.50
1:Z:395:GLU:HG3	1:a:366:ALA:HB2	1.94	0.50
1:b:424:ALA:O	1:b:730:THR:HA	2.10	0.50
1:f:424:ALA:O	1:f:730:THR:HA	2.10	0.50
1:j:395:GLU:HG3	1:l:366:ALA:HB2	1.94	0.50
1:m:229:CYS:SG	1:s:396:TYR:CD1	2.92	0.50
1:o:430:ASP:HB2	1:o:473:LYS:HE2	1.93	0.50
1:s:487:SER:O	1:s:493:ASN:ND2	2.41	0.50
1:8:561:GLU:O	1:8:564:ARG:HG3	2.11	0.50
1:A:274:TYR:OH	1:B:711:THR:HG21	2.12	0.50
1:B:351:TYR:HA	1:B:643:GLN:NE2	2.26	0.50
1:D:652:PRO:HD2	1:E:673:THR:HG21	1.92	0.50
1:F:351:TYR:HA	1:F:643:GLN:NE2	2.25	0.50
1:H:366:ALA:HB2	1:I:395:GLU:HG3	1.94	0.50
1:H:561:GLU:O	1:H:564:ARG:HG3	2.11	0.50
1:J:430:ASP:HB2	1:J:473:LYS:HE2	1.93	0.50
1:M:276:THR:OG1	1:M:374:TYR:O	2.21	0.50
1:N:228[A]:HIS:O	1:N:243:THR:OG1	2.25	0.50
1:N:430:ASP:HB2	1:N:473:LYS:HE2	1.93	0.50
1:T:561:GLU:O	1:T:564:ARG:HG3	2.11	0.50
1:U:366:ALA:HB2	1:e:395:GLU:HG3	1.94	0.50
1:U:673:THR:HG21	1:e:652:PRO:HD2	1.92	0.50
1:X:430:ASP:HB2	1:X:473:LYS:HE2	1.93	0.50
1:Y:430:ASP:HB2	1:Y:473:LYS:HE2	1.93	0.50
1:c:395:GLU:HG3	1:s:366:ALA:HB2	1.94	0.50
1:f:287:HIS:HD2	1:f:612:GLN:HB3	1.75	0.50
1:i:228[A]:HIS:O	1:i:243:THR:OG1	2.25	0.50
1:m:561:GLU:O	1:m:564:ARG:HG3	2.11	0.50
1:2:430:ASP:HB2	1:2:473:LYS:HE2	1.93	0.50
1:5:395:GLU:HG3	1:8:366:ALA:HB2	1.93	0.50
1:5:561:GLU:O	1:5:564:ARG:HG3	2.11	0.50
1:D:395:GLU:HG3	1:E:366:ALA:HB2	1.94	0.50
1:E:228[A]:HIS:O	1:E:243:THR:OG1	2.25	0.50
1:U:487:SER:O	1:U:493:ASN:ND2	2.41	0.50
1:X:274:TYR:OH	1:f:711:THR:HG21	2.12	0.50
1:b:711:THR:HG21	1:o:274:TYR:OH	2.12	0.50
1:k:652:PRO:HD2	1:w:673:THR:HG21	1.92	0.50
1:u:395:GLU:HG3	1:5:366:ALA:HB2	1.94	0.50
1:w:228[A]:HIS:O	1:w:243:THR:OG1	2.25	0.50
1:y:351:TYR:HA	1:y:643:GLN:NE2	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:366:ALA:HB2	1:3:395:GLU:HG3	1.94	0.50
1:4:448:GLN:NE2	1:4:454:GLN:HB3	2.18	0.50
1:7:430:ASP:HB2	1:7:473:LYS:HE2	1.93	0.50
1:7:448:GLN:NE2	1:7:454:GLN:HB3	2.18	0.50
1:A:561:GLU:O	1:A:564:ARG:HG3	2.11	0.50
1:C:274:TYR:OH	1:D:711:THR:HG21	2.12	0.50
1:C:487:SER:O	1:C:493:ASN:ND2	2.41	0.50
1:J:366:ALA:HB2	1:a:395:GLU:HG3	1.94	0.50
1:J:412:TYR:OH	1:J:639:HIS:O	2.25	0.50
1:U:430:ASP:HB2	1:U:473:LYS:HE2	1.93	0.50
1:i:448:GLN:NE2	1:i:454:GLN:HB3	2.18	0.50
1:p:366:ALA:HB2	1:q:395:GLU:HG3	1.94	0.50
1:s:430:ASP:HB2	1:s:473:LYS:HE2	1.93	0.50
1:v:561:GLU:O	1:v:564:ARG:HG3	2.11	0.50
1:z:430:ASP:HB2	1:z:473:LYS:HE2	1.93	0.50
1:O:430:ASP:HB2	1:O:473:LYS:HE2	1.93	0.50
1:R:395:GLU:HG3	1:V:366:ALA:HB2	1.94	0.50
1:a:430:ASP:HB2	1:a:473:LYS:HE2	1.93	0.50
1:c:430:ASP:HB2	1:c:473:LYS:HE2	1.93	0.50
1:l:430:ASP:HB2	1:l:473:LYS:HE2	1.93	0.50
1:1:448:GLN:NE2	1:1:454:GLN:HB3	2.18	0.50
1:3:366:ALA:HB2	1:8:395:GLU:HG3	1.94	0.50
1:B:448:GLN:NE2	1:B:454:GLN:HB3	2.18	0.50
1:L:430:ASP:HB2	1:L:473:LYS:HE2	1.93	0.50
1:O:395:GLU:HG3	1:d:366:ALA:HB2	1.94	0.50
1:R:448:GLN:NE2	1:R:454:GLN:HB3	2.18	0.50
1:Y:711:THR:HG21	1:4:274:TYR:OH	2.12	0.50
1:e:430:ASP:HB2	1:e:473:LYS:HE2	1.93	0.50
1:g:274:TYR:OH	1:k:711:THR:HG21	2.12	0.50
1:l:395:GLU:HG3	1:n:366:ALA:HB2	1.94	0.50
1:m:366:ALA:HB2	1:s:395:GLU:HG3	1.94	0.50
1:2:412:TYR:OH	1:2:639:HIS:O	2.25	0.50
1:3:228[A]:HIS:O	1:3:243:THR:OG1	2.25	0.50
1:A:395:GLU:HG3	1:B:366:ALA:HB2	1.94	0.49
1:B:395:GLU:HG3	1:C:366:ALA:HB2	1.94	0.49
1:O:711:THR:HG21	1:P:274:TYR:OH	2.12	0.49
1:P:487:SER:O	1:P:493:ASN:ND2	2.41	0.49
1:T:366:ALA:HB2	1:U:395:GLU:HG3	1.94	0.49
1:Y:448:GLN:NE2	1:Y:454:GLN:HB3	2.18	0.49
1:g:487:SER:O	1:g:493:ASN:ND2	2.41	0.49
1:j:487:SER:O	1:j:493:ASN:ND2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:711:THR:HG21	1:7:274:TYR:OH	2.12	0.49
1:p:395:GLU:HG3	1:6:366:ALA:HB2	1.94	0.49
1:p:561:GLU:O	1:p:564:ARG:HG3	2.11	0.49
1:v:274:TYR:OH	1:1:711:THR:HG21	2.12	0.49
1:x:487:SER:O	1:x:493:ASN:ND2	2.41	0.49
1:3:430:ASP:HB2	1:3:473:LYS:HE2	1.93	0.49
1:K:274:TYR:OH	1:7:711:THR:HG21	2.12	0.49
1:N:448:GLN:NE2	1:N:454:GLN:HB3	2.18	0.49
1:Q:711:THR:HG21	1:S:274:TYR:OH	2.12	0.49
1:V:561:GLU:O	1:V:564:ARG:HG3	2.11	0.49
1:W:430:ASP:HB2	1:W:473:LYS:HE2	1.93	0.49
1:X:711:THR:HG21	1:Y:274:TYR:OH	2.12	0.49
1:b:430:ASP:HB2	1:b:473:LYS:HE2	1.93	0.49
1:g:228[A]:HIS:O	1:g:243:THR:OG1	2.25	0.49
1:g:366:ALA:HB2	1:1:395:GLU:HG3	1.94	0.49
1:j:274:TYR:OH	1:l:711:THR:HG21	2.12	0.49
1:n:274:TYR:OH	1:r:711:THR:HG21	2.12	0.49
1:q:448:GLN:NE2	1:q:454:GLN:HB3	2.18	0.49
1:q:561:GLU:O	1:q:564:ARG:HG3	2.11	0.49
1:v:395:GLU:HG3	1:1:366:ALA:HB2	1.94	0.49
1:K:395:GLU:HG3	1:7:366:ALA:HB2	1.94	0.49
1:S:711:THR:HG21	1:d:274:TYR:OH	2.12	0.49
1:U:711:THR:HG21	1:e:274:TYR:OH	2.13	0.49
1:V:395:GLU:HG3	1:W:366:ALA:HB2	1.94	0.49
1:Y:366:ALA:HB2	1:4:395:GLU:HG3	1.94	0.49
1:a:228[A]:HIS:O	1:a:243:THR:OG1	2.25	0.49
1:c:274:TYR:OH	1:s:711:THR:HG21	2.13	0.49
1:m:228[A]:HIS:O	1:m:243:THR:OG1	2.25	0.49
1:r:274:TYR:OH	1:x:711:THR:HG21	2.12	0.49
1:u:561:GLU:O	1:u:564:ARG:HG3	2.11	0.49
1:3:711:THR:HG21	1:8:274:TYR:OH	2.12	0.49
1:6:430:ASP:HB2	1:6:473:LYS:HE2	1.93	0.49
1:7:561:GLU:O	1:7:564:ARG:HG3	2.11	0.49
1:I:711:THR:HG21	1:J:274:TYR:OH	2.12	0.49
1:L:366:ALA:HB2	1:b:395:GLU:HG3	1.94	0.49
1:M:274:TYR:OH	1:c:711:THR:HG21	2.12	0.49
1:M:711:THR:HG21	1:N:274:TYR:OH	2.12	0.49
1:Q:487:SER:O	1:Q:493:ASN:ND2	2.41	0.49
1:R:561:GLU:O	1:R:564:ARG:HG3	2.11	0.49
1:S:228[A]:HIS:O	1:S:243:THR:OG1	2.25	0.49
1:Z:274:TYR:OH	1:a:711:THR:HG21	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:711:THR:HG21	1:h:274:TYR:OH	2.12	0.49
1:f:430:ASP:HB2	1:f:473:LYS:HE2	1.93	0.49
1:h:711:THR:HG21	1:i:274:TYR:OH	2.12	0.49
1:k:412:TYR:OH	1:k:639:HIS:O	2.25	0.49
1:u:711:THR:HG21	1:2:274:TYR:OH	2.12	0.49
1:x:300:ASN:O	1:x:729:LEU:HD21	2.13	0.49
1:8:276:THR:OG1	1:8:374:TYR:O	2.20	0.49
1:C:228[A]:HIS:O	1:C:243:THR:OG1	2.25	0.49
1:D:412:TYR:OH	1:D:639:HIS:O	2.25	0.49
1:F:395:GLU:HG3	1:R:366:ALA:HB2	1.94	0.49
1:I:561:GLU:O	1:I:564:ARG:HG3	2.11	0.49
1:J:711:THR:HG21	1:a:274:TYR:OH	2.12	0.49
1:L:300:ASN:O	1:L:729:LEU:HD21	2.13	0.49
1:Q:300:ASN:O	1:Q:729:LEU:HD21	2.13	0.49
1:T:274:TYR:OH	1:i:711:THR:HG21	2.12	0.49
1:W:300:ASN:O	1:W:729:LEU:HD21	2.13	0.49
1:Y:561:GLU:O	1:Y:564:ARG:HG3	2.11	0.49
1:f:395:GLU:HG3	1:z:366:ALA:HB2	1.94	0.49
1:l:300:ASN:O	1:l:729:LEU:HD21	2.13	0.49
1:p:711:THR:HG21	1:q:274:TYR:OH	2.13	0.49
1:6:300:ASN:O	1:6:729:LEU:HD21	2.13	0.49
1:B:274:TYR:OH	1:C:711:THR:HG21	2.13	0.49
1:H:711:THR:HG21	1:I:274:TYR:OH	2.12	0.49
1:L:711:THR:HG21	1:b:274:TYR:OH	2.13	0.49
1:N:711:THR:HG21	1:m:274:TYR:OH	2.12	0.49
1:O:274:TYR:OH	1:d:711:THR:HG21	2.13	0.49
1:O:300:ASN:O	1:O:729:LEU:HD21	2.13	0.49
1:R:274:TYR:OH	1:V:711:THR:HG21	2.13	0.49
1:R:300:ASN:O	1:R:729:LEU:HD21	2.13	0.49
1:f:274:TYR:OH	1:z:711:THR:HG21	2.13	0.49
1:l:274:TYR:OH	1:n:711:THR:HG21	2.13	0.49
1:o:300:ASN:O	1:o:729:LEU:HD21	2.13	0.49
1:q:300:ASN:O	1:q:729:LEU:HD21	2.13	0.49
1:q:366:ALA:HB2	1:y:395:GLU:HG3	1.94	0.49
1:q:711:THR:HG21	1:y:274:TYR:OH	2.12	0.49
1:z:300:ASN:O	1:z:729:LEU:HD21	2.13	0.49
1:2:711:THR:HG21	1:3:274:TYR:OH	2.12	0.49
1:C:430:ASP:HB2	1:C:473:LYS:HE2	1.93	0.49
1:E:487:SER:O	1:E:493:ASN:ND2	2.41	0.49
1:J:300:ASN:O	1:J:729:LEU:HD21	2.13	0.49
1:Q:366:ALA:HB2	1:S:395:GLU:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:228[A]:HIS:O	1:T:243:THR:OG1	2.25	0.49
1:g:711:THR:HG21	1:l:274:TYR:OH	2.13	0.49
1:h:366:ALA:HB2	1:i:395:GLU:HG3	1.94	0.49
1:p:274:TYR:OH	1:6:711:THR:HG21	2.12	0.49
1:r:228[A]:HIS:O	1:r:243:THR:OG1	2.25	0.49
1:r:395:GLU:HG3	1:x:366:ALA:HB2	1.94	0.49
1:t:300:ASN:O	1:t:729:LEU:HD21	2.13	0.49
1:u:274:TYR:OH	1:5:711:THR:HG21	2.12	0.49
1:2:300:ASN:O	1:2:729:LEU:HD21	2.13	0.49
1:8:228[A]:HIS:O	1:8:243:THR:OG1	2.25	0.49
1:F:274:TYR:OH	1:R:711:THR:HG21	2.12	0.49
1:G:300:ASN:O	1:G:729:LEU:HD21	2.13	0.49
1:G:366:ALA:HB2	1:W:395:GLU:HG3	1.93	0.49
1:M:395:GLU:HG3	1:c:366:ALA:HB2	1.94	0.49
1:V:274:TYR:OH	1:W:711:THR:HG21	2.12	0.49
1:V:300:ASN:O	1:V:729:LEU:HD21	2.13	0.49
1:X:300:ASN:O	1:X:729:LEU:HD21	2.13	0.49
1:f:447:THR:HG23	1:h:499:PRO:HG3	1.95	0.49
1:n:276:THR:OG1	1:n:374:TYR:O	2.20	0.49
1:w:300:ASN:O	1:w:729:LEU:HD21	2.13	0.49
1:w:487:SER:O	1:w:493:ASN:ND2	2.41	0.49
1:4:300:ASN:O	1:4:729:LEU:HD21	2.13	0.49
1:8:300:ASN:O	1:8:729:LEU:HD21	2.13	0.49
1:D:274:TYR:OH	1:E:711:THR:HG21	2.13	0.49
1:I:228[A]:HIS:O	1:I:243:THR:OG1	2.25	0.49
1:K:300:ASN:O	1:K:729:LEU:HD21	2.13	0.49
1:M:366:ALA:HB2	1:N:395:GLU:HG3	1.94	0.49
1:M:499:PRO:HG3	1:b:447:THR:HG23	1.95	0.49
1:O:499:PRO:HG3	1:n:447:THR:HG23	1.95	0.49
1:Z:300:ASN:O	1:Z:729:LEU:HD21	2.13	0.49
1:a:447:THR:HG23	1:8:499:PRO:HG3	1.95	0.49
1:c:300:ASN:O	1:c:729:LEU:HD21	2.13	0.49
1:e:300:ASN:O	1:e:729:LEU:HD21	2.13	0.49
1:g:430:ASP:HB2	1:g:473:LYS:HE2	1.93	0.49
1:i:300:ASN:O	1:i:729:LEU:HD21	2.13	0.49
1:o:366:ALA:HB2	1:7:395:GLU:HG3	1.94	0.49
1:p:300:ASN:O	1:p:729:LEU:HD21	2.13	0.49
1:r:300:ASN:O	1:r:729:LEU:HD21	2.13	0.49
1:t:366:ALA:HB2	1:6:395:GLU:HG3	1.93	0.49
1:y:448:GLN:NE2	1:y:454:GLN:HB3	2.18	0.49
1:z:395:GLU:HG3	1:4:366:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:300:ASN:O	1:E:729:LEU:HD21	2.13	0.49
1:H:395:GLU:HG3	1:Z:366:ALA:HB2	1.95	0.49
1:H:499:PRO:HG3	1:Y:447:THR:HG23	1.95	0.49
1:K:366:ALA:HB2	1:L:395:GLU:HG3	1.94	0.49
1:K:499:PRO:HG3	1:8:447:THR:HG23	1.95	0.49
1:K:711:THR:HG21	1:L:274:TYR:OH	2.12	0.49
1:M:300:ASN:O	1:M:729:LEU:HD21	2.13	0.49
1:N:300:ASN:O	1:N:729:LEU:HD21	2.13	0.49
1:P:711:THR:HG21	1:Q:274:TYR:OH	2.12	0.49
1:S:300:ASN:O	1:S:729:LEU:HD21	2.13	0.49
1:S:366:ALA:HB2	1:d:395:GLU:HG3	1.94	0.49
1:X:366:ALA:HB2	1:Y:395:GLU:HG3	1.94	0.49
1:X:412:TYR:OH	1:X:639:HIS:O	2.25	0.49
1:Z:499:PRO:HG3	1:3:447:THR:HG23	1.95	0.49
1:b:300:ASN:O	1:b:729:LEU:HD21	2.13	0.49
1:d:447:THR:HG23	1:l:499:PRO:HG3	1.95	0.49
1:f:300:ASN:O	1:f:729:LEU:HD21	2.13	0.49
1:h:300:ASN:O	1:h:729:LEU:HD21	2.13	0.49
1:j:366:ALA:HB2	1:x:395:GLU:HG3	1.94	0.49
1:n:300:ASN:O	1:n:729:LEU:HD21	2.13	0.49
1:n:395:GLU:HG3	1:r:366:ALA:HB2	1.94	0.49
1:u:300:ASN:O	1:u:729:LEU:HD21	2.13	0.49
1:v:300:ASN:O	1:v:729:LEU:HD21	2.13	0.49
1:v:711:THR:HG21	1:w:274:TYR:OH	2.12	0.49
1:G:711:THR:HG21	1:W:274:TYR:OH	2.12	0.48
1:I:300:ASN:O	1:I:729:LEU:HD21	2.13	0.48
1:O:353:LEU:HD23	1:O:643:GLN:HG2	1.95	0.48
1:Z:228[A]:HIS:O	1:Z:243:THR:OG1	2.25	0.48
1:Z:447:THR:HG23	1:4:499:PRO:HG3	1.96	0.48
1:d:300:ASN:O	1:d:729:LEU:HD21	2.13	0.48
1:e:366:ALA:HB2	1:h:395:GLU:HG3	1.94	0.48
1:m:711:THR:HG21	1:s:274:TYR:OH	2.12	0.48
1:u:228[A]:HIS:O	1:u:243:THR:OG1	2.25	0.48
1:z:274:TYR:OH	1:4:711:THR:HG21	2.12	0.48
1:3:300:ASN:O	1:3:729:LEU:HD21	2.13	0.48
1:3:448:GLN:NE2	1:3:454:GLN:HB3	2.18	0.48
1:5:274:TYR:OH	1:8:711:THR:HG21	2.12	0.48
1:5:499:PRO:HG3	1:7:447:THR:HG23	1.95	0.48
1:A:300:ASN:O	1:A:729:LEU:HD21	2.13	0.48
1:D:353:LEU:HD23	1:D:643:GLN:HG2	1.96	0.48
1:G:228[A]:HIS:O	1:G:243:THR:OG1	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:353:LEU:HD23	1:G:643:GLN:HG2	1.95	0.48
1:I:230:ASP:HB3	1:J:398:PRO:HD3	1.95	0.48
1:O:228[B]:HIS:O	1:O:243:THR:OG1	2.27	0.48
1:P:366:ALA:HB2	1:Q:395:GLU:HG3	1.94	0.48
1:T:300:ASN:O	1:T:729:LEU:HD21	2.13	0.48
1:Y:300:ASN:O	1:Y:729:LEU:HD21	2.13	0.48
1:i:577:VAL:O	1:i:591:GLY:N	2.41	0.48
1:j:353:LEU:HD23	1:j:643:GLN:HG2	1.96	0.48
1:j:711:THR:HG21	1:x:274:TYR:OH	2.12	0.48
1:k:274:TYR:OH	1:w:711:THR:HG21	2.13	0.48
1:k:300:ASN:O	1:k:729:LEU:HD21	2.13	0.48
1:k:353:LEU:HD23	1:k:643:GLN:HG2	1.96	0.48
1:m:300:ASN:O	1:m:729:LEU:HD21	2.13	0.48
1:m:353:LEU:HD23	1:m:643:GLN:HG2	1.96	0.48
1:u:353:LEU:HD23	1:u:643:GLN:HG2	1.95	0.48
1:u:366:ALA:HB2	1:2:395:GLU:HG3	1.94	0.48
1:A:228[A]:HIS:O	1:A:243:THR:OG1	2.25	0.48
1:C:300:ASN:O	1:C:729:LEU:HD21	2.13	0.48
1:F:300:ASN:O	1:F:729:LEU:HD21	2.13	0.48
1:F:366:ALA:HB2	1:G:395:GLU:HG3	1.95	0.48
1:G:447:THR:HG23	1:I:499:PRO:HG3	1.95	0.48
1:I:366:ALA:HB2	1:J:395:GLU:HG3	1.94	0.48
1:J:228[A]:HIS:O	1:J:243:THR:OG1	2.25	0.48
1:M:353:LEU:HA	1:M:353:LEU:HD13	1.66	0.48
1:P:353:LEU:HD23	1:P:643:GLN:HG2	1.96	0.48
1:T:353:LEU:HD23	1:T:643:GLN:HG2	1.96	0.48
1:T:577:VAL:O	1:T:591:GLY:N	2.41	0.48
1:U:353:LEU:HD23	1:U:643:GLN:HG2	1.96	0.48
1:a:300:ASN:O	1:a:729:LEU:HD21	2.13	0.48
1:d:276:THR:OG1	1:d:374:TYR:O	2.20	0.48
1:m:577:VAL:O	1:m:591:GLY:N	2.41	0.48
1:s:353:LEU:HD23	1:s:643:GLN:HG2	1.96	0.48
1:t:228[A]:HIS:O	1:t:243:THR:OG1	2.25	0.48
1:t:353:LEU:HD23	1:t:643:GLN:HG2	1.96	0.48
1:t:395:GLU:HG3	1:y:366:ALA:HB2	1.95	0.48
1:4:228[A]:HIS:O	1:4:243:THR:OG1	2.25	0.48
1:7:300:ASN:O	1:7:729:LEU:HD21	2.13	0.48
1:D:300:ASN:O	1:D:729:LEU:HD21	2.13	0.48
1:F:448:GLN:NE2	1:F:454:GLN:HB3	2.18	0.48
1:K:353:LEU:HD23	1:K:643:GLN:HG2	1.95	0.48
1:L:230:ASP:HB3	1:b:398:PRO:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:230:ASP:HB3	1:m:398:PRO:HD3	1.96	0.48
1:Q:230:ASP:HB3	1:S:398:PRO:HD3	1.96	0.48
1:T:711:THR:HG21	1:U:274:TYR:OH	2.12	0.48
1:X:499:PRO:HG3	1:e:447:THR:HG23	1.95	0.48
1:c:353:LEU:HD23	1:c:643:GLN:HG2	1.95	0.48
1:l:353:LEU:HD23	1:l:643:GLN:HG2	1.96	0.48
1:r:398:PRO:HD3	1:x:230:ASP:HB3	1.96	0.48
1:u:230:ASP:HB3	1:2:398:PRO:HD3	1.96	0.48
1:v:228[A]:HIS:O	1:v:243:THR:OG1	2.25	0.48
1:y:300:ASN:O	1:y:729:LEU:HD21	2.13	0.48
1:2:353:LEU:HD23	1:2:643:GLN:HG2	1.95	0.48
1:B:353:LEU:HD23	1:B:643:GLN:HG2	1.96	0.48
1:E:353:LEU:HD23	1:E:643:GLN:HG2	1.96	0.48
1:F:711:THR:HG21	1:G:274:TYR:OH	2.12	0.48
1:H:274:TYR:OH	1:Z:711:THR:HG21	2.12	0.48
1:I:353:LEU:HD23	1:I:643:GLN:HG2	1.96	0.48
1:P:300:ASN:O	1:P:729:LEU:HD21	2.13	0.48
1:S:447:THR:HG23	1:U:499:PRO:HG3	1.96	0.48
1:T:398:PRO:HD3	1:i:230:ASP:HB3	1.96	0.48
1:T:499:PRO:HG3	1:l:447:THR:HG23	1.96	0.48
1:b:366:ALA:HB2	1:o:395:GLU:HG3	1.94	0.48
1:c:447:THR:HG23	1:o:499:PRO:HG3	1.95	0.48
1:f:398:PRO:HD3	1:z:230:ASP:HB3	1.96	0.48
1:f:448:GLN:NE2	1:f:454:GLN:HB3	2.18	0.48
1:g:300:ASN:O	1:g:729:LEU:HD21	2.13	0.48
1:t:398:PRO:HD3	1:y:230:ASP:HB3	1.96	0.48
1:v:353:LEU:HD23	1:v:643:GLN:HG2	1.95	0.48
1:w:353:LEU:HD23	1:w:643:GLN:HG2	1.96	0.48
1:y:353:LEU:HD23	1:y:643:GLN:HG2	1.96	0.48
1:1:353:LEU:HD23	1:1:643:GLN:HG2	1.96	0.48
1:A:353:LEU:HD23	1:A:643:GLN:HG2	1.96	0.48
1:A:711:THR:HG21	1:E:274:TYR:OH	2.13	0.48
1:B:447:THR:HG23	1:J:499:PRO:HG3	1.95	0.48
1:B:499:PRO:HG3	1:L:447:THR:HG23	1.96	0.48
1:C:353:LEU:HD23	1:C:643:GLN:HG2	1.96	0.48
1:D:420:HIS:CD2	1:D:726:THR:HG21	2.49	0.48
1:F:353:LEU:HD23	1:F:643:GLN:HG2	1.96	0.48
1:J:353:LEU:HD23	1:J:643:GLN:HG2	1.96	0.48
1:K:228[A]:HIS:O	1:K:243:THR:OG1	2.25	0.48
1:K:447:THR:HG23	1:a:499:PRO:HG3	1.95	0.48
1:N:577:VAL:O	1:N:591:GLY:N	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:353:LEU:HD23	1:e:643:GLN:HG2	1.96	0.48
1:f:420:HIS:CD2	1:f:726:THR:HG21	2.49	0.48
1:g:353:LEU:HD23	1:g:643:GLN:HG2	1.95	0.48
1:g:395:GLU:HG3	1:k:366:ALA:HB2	1.94	0.48
1:j:300:ASN:O	1:j:729:LEU:HD21	2.13	0.48
1:o:420:HIS:CD2	1:o:726:THR:HG21	2.49	0.48
1:p:230:ASP:HB3	1:q:398:PRO:HD3	1.96	0.48
1:r:447:THR:HG23	1:s:499:PRO:HG3	1.96	0.48
1:t:274:TYR:OH	1:y:711:THR:HG21	2.12	0.48
1:t:711:THR:HG21	1:6:274:TYR:OH	2.12	0.48
1:z:447:THR:HG23	1:1:499:PRO:HG3	1.96	0.48
1:1:447:THR:HG23	1:2:499:PRO:HG3	1.95	0.48
1:4:353:LEU:HD23	1:4:643:GLN:HG2	1.96	0.48
1:5:420:HIS:CD2	1:5:726:THR:HG21	2.49	0.48
1:C:395:GLU:HG3	1:D:366:ALA:HB2	1.94	0.48
1:G:420:HIS:CD2	1:G:726:THR:HG21	2.49	0.48
1:H:420:HIS:CD2	1:H:726:THR:HG21	2.49	0.48
1:O:447:THR:HG23	1:m:499:PRO:HG3	1.96	0.48
1:R:398:PRO:HD3	1:V:230:ASP:HB3	1.96	0.48
1:R:420:HIS:CD2	1:R:726:THR:HG21	2.49	0.48
1:R:499:PRO:HG3	1:U:447:THR:HG23	1.96	0.48
1:S:487:SER:O	1:S:493:ASN:ND2	2.41	0.48
1:X:395:GLU:HG3	1:f:366:ALA:HB2	1.94	0.48
1:X:420:HIS:CD2	1:X:726:THR:HG21	2.49	0.48
1:b:420:HIS:CD2	1:b:726:THR:HG21	2.49	0.48
1:f:499:PRO:HG3	1:g:447:THR:HG23	1.95	0.48
1:k:420:HIS:CD2	1:k:726:THR:HG21	2.49	0.48
1:q:353:LEU:HD23	1:q:643:GLN:HG2	1.96	0.48
1:t:447:THR:HG23	1:u:499:PRO:HG3	1.96	0.48
1:6:228[A]:HIS:O	1:6:243:THR:OG1	2.25	0.48
1:B:300:ASN:O	1:B:729:LEU:HD21	2.13	0.48
1:C:447:THR:HG23	1:b:499:PRO:HG3	1.95	0.48
1:F:230:ASP:HB3	1:G:398:PRO:HD3	1.96	0.48
1:H:447:THR:HG23	1:W:499:PRO:HG3	1.95	0.48
1:J:420:HIS:CD2	1:J:726:THR:HG21	2.49	0.48
1:M:420:HIS:CD2	1:M:726:THR:HG21	2.49	0.48
1:N:366:ALA:HB2	1:m:395:GLU:HG3	1.94	0.48
1:R:353:LEU:HD23	1:R:643:GLN:HG2	1.96	0.48
1:S:420:HIS:CD2	1:S:726:THR:HG21	2.49	0.48
1:W:487:SER:O	1:W:493:ASN:ND2	2.41	0.48
1:a:420:HIS:CD2	1:a:726:THR:HG21	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:420:HIS:CD2	1:h:726:THR:HG21	2.49	0.48
1:j:228[A]:HIS:O	1:j:243:THR:OG1	2.25	0.48
1:q:420:HIS:CD2	1:q:726:THR:HG21	2.49	0.48
1:q:447:THR:HG23	1:r:499:PRO:HG3	1.95	0.48
1:q:499:PRO:HG3	1:s:447:THR:HG23	1.96	0.48
1:r:420:HIS:CD2	1:r:726:THR:HG21	2.49	0.48
1:t:420:HIS:CD2	1:t:726:THR:HG21	2.49	0.48
1:u:447:THR:HG23	1:v:499:PRO:HG3	1.96	0.48
1:v:230:ASP:HB3	1:w:398:PRO:HD3	1.95	0.48
1:1:487:SER:O	1:1:493:ASN:ND2	2.41	0.48
1:3:420:HIS:CD2	1:3:726:THR:HG21	2.49	0.48
1:3:499:PRO:HG3	1:4:447:THR:HG23	1.95	0.48
1:5:300:ASN:O	1:5:729:LEU:HD21	2.13	0.48
1:A:366:ALA:HB2	1:E:395:GLU:HG3	1.94	0.48
1:B:487:SER:O	1:B:493:ASN:ND2	2.41	0.48
1:H:353:LEU:HD23	1:H:643:GLN:HG2	1.96	0.48
1:H:398:PRO:HD3	1:Z:230:ASP:HB3	1.95	0.48
1:M:353:LEU:HD23	1:M:643:GLN:HG2	1.95	0.48
1:R:447:THR:HG23	1:S:499:PRO:HG3	1.95	0.48
1:T:271:TYR:HA	1:T:380:ASN:ND2	2.29	0.48
1:T:395:GLU:HG3	1:i:366:ALA:HB2	1.94	0.48
1:W:228[A]:HIS:O	1:W:243:THR:OG1	2.25	0.48
1:Z:487:SER:O	1:Z:493:ASN:ND2	2.41	0.48
1:g:230:ASP:HB3	1:1:398:PRO:HD3	1.96	0.48
1:h:353:LEU:HD23	1:h:643:GLN:HG2	1.96	0.48
1:r:487:SER:O	1:r:493:ASN:ND2	2.41	0.48
1:t:499:PRO:HG3	1:v:447:THR:HG23	1.96	0.48
1:w:731:ARG:NH1	1:x:621:HIS:CD2	2.82	0.48
1:z:271:TYR:HA	1:z:380:ASN:ND2	2.29	0.48
1:2:420:HIS:CD2	1:2:726:THR:HG21	2.49	0.48
1:4:353:LEU:HA	1:4:353:LEU:HD13	1.66	0.48
1:5:353:LEU:HD23	1:5:643:GLN:HG2	1.96	0.48
1:6:447:THR:HG23	1:7:499:PRO:HG3	1.95	0.48
1:B:398:PRO:HD3	1:C:230:ASP:HB3	1.96	0.48
1:G:271:TYR:HA	1:G:380:ASN:ND2	2.29	0.48
1:H:300:ASN:O	1:H:729:LEU:HD21	2.13	0.48
1:H:353:LEU:HA	1:H:353:LEU:HD13	1.66	0.48
1:J:230:ASP:HB3	1:a:398:PRO:HD3	1.96	0.48
1:J:447:THR:HG23	1:L:499:PRO:HG3	1.96	0.48
1:L:420:HIS:CD2	1:L:726:THR:HG21	2.49	0.48
1:N:228[B]:HIS:O	1:N:243:THR:OG1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:271:TYR:HA	1:N:380:ASN:ND2	2.29	0.48
1:Q:420:HIS:CD2	1:Q:726:THR:HG21	2.49	0.48
1:c:499:PRO:HG3	1:p:447:THR:HG23	1.95	0.48
1:i:228[B]:HIS:O	1:i:243:THR:OG1	2.27	0.48
1:l:398:PRO:HD3	1:n:230:ASP:HB3	1.96	0.48
1:t:731:ARG:NH1	1:u:621:HIS:CD2	2.82	0.48
1:x:420:HIS:CD2	1:x:726:THR:HG21	2.49	0.48
1:1:300:ASN:O	1:1:729:LEU:HD21	2.13	0.48
1:2:228[A]:HIS:O	1:2:243:THR:OG1	2.25	0.48
1:2:230:ASP:HB3	1:3:398:PRO:HD3	1.96	0.48
1:6:487:SER:O	1:6:493:ASN:ND2	2.41	0.48
1:A:420:HIS:CD2	1:A:726:THR:HG21	2.49	0.47
1:E:731:ARG:NH1	1:Q:621:HIS:CD2	2.82	0.47
1:H:230:ASP:HB3	1:I:398:PRO:HD3	1.96	0.47
1:L:271:TYR:HA	1:L:380:ASN:ND2	2.29	0.47
1:O:398:PRO:HD3	1:d:230:ASP:HB3	1.96	0.47
1:U:300:ASN:O	1:U:729:LEU:HD21	2.13	0.47
1:W:447:THR:HG23	1:Y:499:PRO:HG3	1.95	0.47
1:X:228[B]:HIS:O	1:X:243:THR:OG1	2.27	0.47
1:Z:353:LEU:HD23	1:Z:643:GLN:HG2	1.95	0.47
1:b:448:GLN:NE2	1:b:454:GLN:HB3	2.18	0.47
1:d:271:TYR:HA	1:d:380:ASN:ND2	2.29	0.47
1:i:271:TYR:HA	1:i:380:ASN:ND2	2.29	0.47
1:m:271:TYR:HA	1:m:380:ASN:ND2	2.29	0.47
1:o:271:TYR:HA	1:o:380:ASN:ND2	2.29	0.47
1:o:353:LEU:HD23	1:o:643:GLN:HG2	1.95	0.47
1:p:228[A]:HIS:O	1:p:243:THR:OG1	2.25	0.47
1:t:271:TYR:HA	1:t:380:ASN:ND2	2.29	0.47
1:u:398:PRO:HD3	1:5:230:ASP:HB3	1.96	0.47
1:v:420:HIS:CD2	1:v:726:THR:HG21	2.49	0.47
1:z:499:PRO:HG3	1:2:447:THR:HG23	1.96	0.47
1:5:447:THR:HG23	1:6:499:PRO:HG3	1.95	0.47
1:7:271:TYR:HA	1:7:380:ASN:ND2	2.29	0.47
1:A:271:TYR:HA	1:A:380:ASN:ND2	2.29	0.47
1:A:447:THR:HG23	1:G:499:PRO:HG3	1.96	0.47
1:C:256:TYR:O	1:D:716:GLY:HA2	2.15	0.47
1:D:398:PRO:HD3	1:E:230:ASP:HB3	1.96	0.47
1:E:447:THR:HG23	1:Q:499:PRO:HG3	1.96	0.47
1:F:271:TYR:HA	1:F:380:ASN:ND2	2.29	0.47
1:G:731:ARG:NH1	1:I:621:HIS:CD2	2.83	0.47
1:J:487:SER:O	1:J:493:ASN:ND2	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:228[A]:HIS:O	1:P:243:THR:OG1	2.25	0.47
1:P:420:HIS:CD2	1:P:726:THR:HG21	2.49	0.47
1:S:353:LEU:HD23	1:S:643:GLN:HG2	1.96	0.47
1:T:448:GLN:NE2	1:T:454:GLN:HB3	2.18	0.47
1:V:353:LEU:HD23	1:V:643:GLN:HG2	1.96	0.47
1:V:447:THR:HG23	1:e:499:PRO:HG3	1.95	0.47
1:X:271:TYR:HA	1:X:380:ASN:ND2	2.29	0.47
1:c:271:TYR:HA	1:c:380:ASN:ND2	2.29	0.47
1:e:228[A]:HIS:O	1:e:243:THR:OG1	2.25	0.47
1:e:353:LEU:HD13	1:e:353:LEU:HA	1.67	0.47
1:n:271:TYR:HA	1:n:380:ASN:ND2	2.29	0.47
1:o:228[B]:HIS:O	1:o:243:THR:OG1	2.27	0.47
1:p:353:LEU:HD23	1:p:643:GLN:HG2	1.96	0.47
1:r:448:GLN:NE2	1:r:454:GLN:HB3	2.18	0.47
1:s:300:ASN:O	1:s:729:LEU:HD21	2.13	0.47
1:v:271:TYR:HA	1:v:380:ASN:ND2	2.29	0.47
1:w:499:PRO:HG3	1:y:447:THR:HG23	1.96	0.47
1:y:271:TYR:HA	1:y:380:ASN:ND2	2.29	0.47
1:z:420:HIS:CD2	1:z:726:THR:HG21	2.49	0.47
1:2:487:SER:O	1:2:493:ASN:ND2	2.41	0.47
1:7:353:LEU:HD23	1:7:643:GLN:HG2	1.96	0.47
1:8:353:LEU:HD23	1:8:643:GLN:HG2	1.96	0.47
1:8:487:SER:O	1:8:493:ASN:ND2	2.41	0.47
1:A:230:ASP:HB3	1:E:398:PRO:HD3	1.95	0.47
1:A:398:PRO:HD3	1:B:230:ASP:HB3	1.95	0.47
1:A:621:HIS:CD2	1:I:731:ARG:NH1	2.82	0.47
1:C:420:HIS:CD2	1:C:726:THR:HG21	2.49	0.47
1:D:228[A]:HIS:O	1:D:243:THR:OG1	2.25	0.47
1:E:499:PRO:HG3	1:F:447:THR:HG23	1.96	0.47
1:F:420:HIS:CD2	1:F:726:THR:HG21	2.49	0.47
1:H:716:GLY:HA2	1:I:256:TYR:O	2.14	0.47
1:J:271:TYR:HA	1:J:380:ASN:ND2	2.29	0.47
1:J:716:GLY:HA2	1:a:256:TYR:O	2.14	0.47
1:M:621:HIS:CD2	1:b:731:ARG:NH1	2.83	0.47
1:S:716:GLY:HA2	1:d:256:TYR:O	2.14	0.47
1:T:420:HIS:CD2	1:T:726:THR:HG21	2.49	0.47
1:V:499:PRO:HG3	1:X:447:THR:HG23	1.97	0.47
1:W:353:LEU:HD23	1:W:643:GLN:HG2	1.96	0.47
1:X:230:ASP:HB3	1:Y:398:PRO:HD3	1.96	0.47
1:X:353:LEU:HD23	1:X:643:GLN:HG2	1.96	0.47
1:Y:271:TYR:HA	1:Y:380:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:420:HIS:CD2	1:Y:726:THR:HG21	2.49	0.47
1:Z:621:HIS:CD2	1:3:731:ARG:NH1	2.83	0.47
1:a:353:LEU:HD13	1:a:353:LEU:HA	1.66	0.47
1:c:420:HIS:CD2	1:c:726:THR:HG21	2.49	0.47
1:e:420:HIS:CD2	1:e:726:THR:HG21	2.49	0.47
1:g:256:TYR:O	1:k:716:GLY:HA2	2.15	0.47
1:g:420:HIS:CD2	1:g:726:THR:HG21	2.49	0.47
1:j:256:TYR:O	1:l:716:GLY:HA2	2.14	0.47
1:j:420:HIS:CD2	1:j:726:THR:HG21	2.49	0.47
1:m:420:HIS:CD2	1:m:726:THR:HG21	2.49	0.47
1:o:447:THR:HG23	1:p:499:PRO:HG3	1.97	0.47
1:q:271:TYR:HA	1:q:380:ASN:ND2	2.29	0.47
1:u:420:HIS:CD2	1:u:726:THR:HG21	2.49	0.47
1:u:716:GLY:HA2	1:2:256:TYR:O	2.14	0.47
1:y:420:HIS:CD2	1:y:726:THR:HG21	2.49	0.47
1:1:353:LEU:HD13	1:1:353:LEU:HA	1.66	0.47
1:2:716:GLY:HA2	1:3:256:TYR:O	2.14	0.47
1:5:412:TYR:OH	1:5:639:HIS:O	2.25	0.47
1:6:353:LEU:HD23	1:6:643:GLN:HG2	1.96	0.47
1:F:621:HIS:CD2	1:Q:731:ARG:NH1	2.83	0.47
1:K:271:TYR:HA	1:K:380:ASN:ND2	2.29	0.47
1:K:398:PRO:HD3	1:7:230:ASP:HB3	1.96	0.47
1:N:353:LEU:HD23	1:N:643:GLN:HG2	1.96	0.47
1:O:716:GLY:HA2	1:P:256:TYR:O	2.14	0.47
1:Q:271:TYR:HA	1:Q:380:ASN:ND2	2.29	0.47
1:R:271:TYR:HA	1:R:380:ASN:ND2	2.29	0.47
1:U:271:TYR:HA	1:U:380:ASN:ND2	2.29	0.47
1:X:398:PRO:HD3	1:f:230:ASP:HB3	1.96	0.47
1:Y:353:LEU:HD23	1:Y:643:GLN:HG2	1.96	0.47
1:a:271:TYR:HA	1:a:380:ASN:ND2	2.29	0.47
1:f:731:ARG:NH1	1:h:621:HIS:CD2	2.83	0.47
1:i:499:PRO:HG3	1:k:447:THR:HG23	1.95	0.47
1:k:228[A]:HIS:O	1:k:243:THR:OG1	2.25	0.47
1:n:256:TYR:O	1:r:716:GLY:HA2	2.14	0.47
1:n:420:HIS:CD2	1:n:726:THR:HG21	2.49	0.47
1:o:230:ASP:HB3	1:7:398:PRO:HD3	1.96	0.47
1:r:353:LEU:HD23	1:r:643:GLN:HG2	1.96	0.47
1:u:256:TYR:O	1:5:716:GLY:HA2	2.14	0.47
1:x:271:TYR:HA	1:x:380:ASN:ND2	2.29	0.47
1:x:731:ARG:NH1	1:y:621:HIS:CD2	2.83	0.47
1:z:398:PRO:HD3	1:4:230:ASP:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:271:TYR:HA	1:2:380:ASN:ND2	2.29	0.47
1:3:271:TYR:HA	1:3:380:ASN:ND2	2.29	0.47
1:5:256:TYR:O	1:8:716:GLY:HA2	2.14	0.47
1:7:420:HIS:CD2	1:7:726:THR:HG21	2.49	0.47
1:8:271:TYR:HA	1:8:380:ASN:ND2	2.29	0.47
1:A:256:TYR:O	1:B:716:GLY:HA2	2.15	0.47
1:A:499:PRO:HG3	1:I:447:THR:HG23	1.97	0.47
1:F:499:PRO:HG3	1:Q:447:THR:HG23	1.96	0.47
1:G:716:GLY:HA2	1:W:256:TYR:O	2.14	0.47
1:H:412:TYR:OH	1:H:639:HIS:O	2.25	0.47
1:I:420:HIS:CD2	1:I:726:THR:HG21	2.49	0.47
1:I:716:GLY:HA2	1:J:256:TYR:O	2.14	0.47
1:K:230:ASP:HB3	1:L:398:PRO:HD3	1.96	0.47
1:N:716:GLY:HA2	1:m:256:TYR:O	2.15	0.47
1:P:271:TYR:HA	1:P:380:ASN:ND2	2.29	0.47
1:V:228[A]:HIS:O	1:V:243:THR:OG1	2.25	0.47
1:Z:271:TYR:HA	1:Z:380:ASN:ND2	2.29	0.47
1:b:230:ASP:HB3	1:o:398:PRO:HD3	1.97	0.47
1:d:420:HIS:CD2	1:d:726:THR:HG21	2.49	0.47
1:e:271:TYR:HA	1:e:380:ASN:ND2	2.29	0.47
1:g:716:GLY:HA2	1:l:256:TYR:O	2.15	0.47
1:i:353:LEU:HD23	1:i:643:GLN:HG2	1.96	0.47
1:m:447:THR:HG23	1:n:499:PRO:HG3	1.95	0.47
1:m:448:GLN:NE2	1:m:454:GLN:HB3	2.18	0.47
1:m:716:GLY:HA2	1:s:256:TYR:O	2.14	0.47
1:u:271:TYR:HA	1:u:380:ASN:ND2	2.29	0.47
1:u:338:THR:HG21	1:u:401:MET:HB3	1.97	0.47
1:w:447:THR:HG23	1:x:499:PRO:HG3	1.96	0.47
1:1:420:HIS:CD2	1:1:726:THR:HG21	2.49	0.47
1:4:271:TYR:HA	1:4:380:ASN:ND2	2.29	0.47
1:5:487:SER:O	1:5:493:ASN:ND2	2.41	0.47
1:B:256:TYR:O	1:C:716:GLY:HA2	2.15	0.47
1:B:420:HIS:CD2	1:B:726:THR:HG21	2.49	0.47
1:C:338:THR:HG21	1:C:401:MET:HB3	1.97	0.47
1:C:398:PRO:HD3	1:D:230:ASP:HB3	1.96	0.47
1:D:447:THR:HG23	1:N:499:PRO:HG3	1.95	0.47
1:E:228[B]:HIS:O	1:E:243:THR:OG1	2.27	0.47
1:F:338:THR:HG21	1:F:401:MET:HB3	1.97	0.47
1:I:338:THR:HG21	1:I:401:MET:HB3	1.97	0.47
1:O:256:TYR:O	1:d:716:GLY:HA2	2.15	0.47
1:O:338:THR:HG21	1:O:401:MET:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:448:GLN:NE2	1:S:454:GLN:HB3	2.18	0.47
1:T:256:TYR:O	1:i:716:GLY:HA2	2.15	0.47
1:T:716:GLY:HA2	1:U:256:TYR:O	2.14	0.47
1:U:420:HIS:CD2	1:U:726:THR:HG21	2.49	0.47
1:Z:420:HIS:CD2	1:Z:726:THR:HG21	2.49	0.47
1:a:487:SER:O	1:a:493:ASN:ND2	2.41	0.47
1:g:398:PRO:HD3	1:k:230:ASP:HB3	1.96	0.47
1:h:271:TYR:HA	1:h:380:ASN:ND2	2.29	0.47
1:l:256:TYR:O	1:n:716:GLY:HA2	2.15	0.47
1:o:353:LEU:HD13	1:o:353:LEU:HA	1.66	0.47
1:p:256:TYR:O	1:6:716:GLY:HA2	2.15	0.47
1:q:353:LEU:HD13	1:q:353:LEU:HA	1.66	0.47
1:s:271:TYR:HA	1:s:380:ASN:ND2	2.29	0.47
1:s:420:HIS:CD2	1:s:726:THR:HG21	2.49	0.47
1:v:366:ALA:HB2	1:w:395:GLU:HG3	1.95	0.47
1:w:420:HIS:CD2	1:w:726:THR:HG21	2.49	0.47
1:x:447:THR:HG23	1:y:499:PRO:HG3	1.96	0.47
1:1:271:TYR:HA	1:1:380:ASN:ND2	2.29	0.47
1:3:228[B]:HIS:O	1:3:243:THR:OG1	2.27	0.47
1:6:338:THR:HG21	1:6:401:MET:HB3	1.97	0.47
1:B:271:TYR:HA	1:B:380:ASN:ND2	2.29	0.47
1:B:353:LEU:HA	1:B:353:LEU:HD13	1.67	0.47
1:D:499:PRO:HG3	1:P:447:THR:HG23	1.95	0.47
1:E:338:THR:HG21	1:E:401:MET:HB3	1.97	0.47
1:E:420:HIS:CD2	1:E:726:THR:HG21	2.49	0.47
1:H:376:TYR:HH	1:H:392:TYR:H	1.62	0.47
1:I:271:TYR:HA	1:I:380:ASN:ND2	2.29	0.47
1:K:353:LEU:HD13	1:K:353:LEU:HA	1.66	0.47
1:K:731:ARG:NH1	1:a:621:HIS:CD2	2.83	0.47
1:M:230:ASP:HB3	1:N:398:PRO:HD3	1.96	0.47
1:M:256:TYR:O	1:c:716:GLY:HA2	2.14	0.47
1:M:271:TYR:HA	1:M:380:ASN:ND2	2.29	0.47
1:O:271:TYR:HA	1:O:380:ASN:ND2	2.29	0.47
1:Q:338:THR:HG21	1:Q:401:MET:HB3	1.97	0.47
1:S:271:TYR:HA	1:S:380:ASN:ND2	2.29	0.47
1:T:447:THR:HG23	1:d:499:PRO:HG3	1.95	0.47
1:V:256:TYR:O	1:W:716:GLY:HA2	2.15	0.47
1:V:271:TYR:HA	1:V:380:ASN:ND2	2.29	0.47
1:V:487:SER:O	1:V:493:ASN:ND2	2.41	0.47
1:W:338:THR:HG21	1:W:401:MET:HB3	1.97	0.47
1:X:256:TYR:O	1:f:716:GLY:HA2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:621:HIS:CD2	1:e:731:ARG:NH1	2.83	0.47
1:Y:230:ASP:HB3	1:4:398:PRO:HD3	1.96	0.47
1:Z:338:THR:HG21	1:Z:401:MET:HB3	1.97	0.47
1:a:353:LEU:HD23	1:a:643:GLN:HG2	1.96	0.47
1:b:228[A]:HIS:O	1:b:243:THR:OG1	2.25	0.47
1:b:271:TYR:HA	1:b:380:ASN:ND2	2.29	0.47
1:b:353:LEU:HD23	1:b:643:GLN:HG2	1.96	0.47
1:c:228[A]:HIS:O	1:c:243:THR:OG1	2.25	0.47
1:c:731:ARG:NH1	1:o:621:HIS:CD2	2.83	0.47
1:e:716:GLY:HA2	1:h:256:TYR:O	2.14	0.47
1:f:271:TYR:HA	1:f:380:ASN:ND2	2.29	0.47
1:g:338:THR:HG21	1:g:401:MET:HB3	1.97	0.47
1:j:271:TYR:HA	1:j:380:ASN:ND2	2.29	0.47
1:j:338:THR:HG21	1:j:401:MET:HB3	1.97	0.47
1:j:447:THR:HG23	1:k:499:PRO:HG3	1.95	0.47
1:k:398:PRO:HD3	1:w:230:ASP:HB3	1.97	0.47
1:l:228[A]:HIS:O	1:l:243:THR:OG1	2.25	0.47
1:l:338:THR:HG21	1:l:401:MET:HB3	1.97	0.47
1:l:420:HIS:CD2	1:l:726:THR:HG21	2.49	0.47
1:p:271:TYR:HA	1:p:380:ASN:ND2	2.29	0.47
1:q:338:THR:HG21	1:q:401:MET:HB3	1.97	0.47
1:r:256:TYR:O	1:x:716:GLY:HA2	2.14	0.47
1:t:716:GLY:HA2	1:6:256:TYR:O	2.14	0.47
1:u:731:ARG:NH1	1:v:621:HIS:CD2	2.83	0.47
1:v:256:TYR:O	1:1:716:GLY:HA2	2.15	0.47
1:w:228[B]:HIS:O	1:w:243:THR:OG1	2.27	0.47
1:w:338:THR:HG21	1:w:401:MET:HB3	1.97	0.47
1:x:338:THR:HG21	1:x:401:MET:HB3	1.97	0.47
1:y:338:THR:HG21	1:y:401:MET:HB3	1.97	0.47
1:z:256:TYR:O	1:4:716:GLY:HA2	2.14	0.47
1:z:353:LEU:HD23	1:z:643:GLN:HG2	1.96	0.47
1:3:353:LEU:HD13	1:3:353:LEU:HA	1.66	0.47
1:3:353:LEU:HD23	1:3:643:GLN:HG2	1.96	0.47
1:3:621:HIS:CD2	1:4:731:ARG:NH1	2.83	0.47
1:5:398:PRO:HD3	1:8:230:ASP:HB3	1.96	0.47
1:8:338:THR:HG21	1:8:401:MET:HB3	1.97	0.47
1:8:420:HIS:CD2	1:8:726:THR:HG21	2.49	0.47
1:D:271:TYR:HA	1:D:380:ASN:ND2	2.29	0.47
1:F:256:TYR:O	1:R:716:GLY:HA2	2.15	0.47
1:F:398:PRO:HD3	1:R:230:ASP:HB3	1.96	0.47
1:L:353:LEU:HD23	1:L:643:GLN:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:420:HIS:CD2	1:O:726:THR:HG21	2.49	0.47
1:Q:716:GLY:HA2	1:S:256:TYR:O	2.14	0.47
1:R:338:THR:HG21	1:R:401:MET:HB3	1.97	0.47
1:V:420:HIS:CD2	1:V:726:THR:HG21	2.49	0.47
1:V:731:ARG:NH1	1:e:621:HIS:CD2	2.83	0.47
1:c:353:LEU:HA	1:c:353:LEU:HD13	1.66	0.47
1:d:338:THR:HG21	1:d:401:MET:HB3	1.97	0.47
1:f:353:LEU:HD23	1:f:643:GLN:HG2	1.96	0.47
1:i:338:THR:HG21	1:i:401:MET:HB3	1.97	0.47
1:k:271:TYR:HA	1:k:380:ASN:ND2	2.29	0.47
1:l:271:TYR:HA	1:l:380:ASN:ND2	2.29	0.47
1:n:398:PRO:HD3	1:r:230:ASP:HB3	1.96	0.47
1:p:487:SER:O	1:p:493:ASN:ND2	2.41	0.47
1:q:716:GLY:HA2	1:y:256:TYR:O	2.15	0.47
1:r:271:TYR:HA	1:r:380:ASN:ND2	2.29	0.47
1:6:420:HIS:CD2	1:6:726:THR:HG21	2.49	0.47
1:C:621:HIS:CD2	1:M:731:ARG:NH1	2.83	0.47
1:G:230:ASP:HB3	1:W:398:PRO:HD3	1.97	0.47
1:H:487:SER:O	1:H:493:ASN:ND2	2.41	0.47
1:H:731:ARG:NH1	1:W:621:HIS:CD2	2.83	0.47
1:J:353:LEU:HA	1:J:353:LEU:HD13	1.66	0.47
1:K:338:THR:HG21	1:K:401:MET:HB3	1.97	0.47
1:K:621:HIS:CD2	1:8:731:ARG:NH1	2.83	0.47
1:P:338:THR:HG21	1:P:401:MET:HB3	1.97	0.47
1:R:731:ARG:NH1	1:S:621:HIS:CD2	2.83	0.47
1:S:230:ASP:HB3	1:d:398:PRO:HD3	1.96	0.47
1:W:271:TYR:HA	1:W:380:ASN:ND2	2.29	0.47
1:W:420:HIS:CD2	1:W:726:THR:HG21	2.49	0.47
1:X:338:THR:HG21	1:X:401:MET:HB3	1.97	0.47
1:a:228[B]:HIS:O	1:a:243:THR:OG1	2.27	0.47
1:b:338:THR:HG21	1:b:401:MET:HB3	1.97	0.47
1:b:716:GLY:HA2	1:o:256:TYR:O	2.14	0.47
1:c:621:HIS:CD2	1:p:731:ARG:NH1	2.83	0.47
1:e:338:THR:HG21	1:e:401:MET:HB3	1.97	0.47
1:h:230:ASP:HB3	1:i:398:PRO:HD3	1.96	0.47
1:n:338:THR:HG21	1:n:401:MET:HB3	1.97	0.47
1:n:353:LEU:HD23	1:n:643:GLN:HG2	1.96	0.47
1:o:338:THR:HG21	1:o:401:MET:HB3	1.97	0.47
1:p:420:HIS:CD2	1:p:726:THR:HG21	2.49	0.47
1:q:230:ASP:HB3	1:y:398:PRO:HD3	1.96	0.47
1:t:230:ASP:HB3	1:6:398:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:398:PRO:HD3	1:1:230:ASP:HB3	1.96	0.47
1:3:230:ASP:HB3	1:8:398:PRO:HD3	1.96	0.47
1:3:487:SER:O	1:3:493:ASN:ND2	2.41	0.47
1:5:731:ARG:NH1	1:6:621:HIS:CD2	2.83	0.47
1:6:271:TYR:HA	1:6:380:ASN:ND2	2.29	0.47
1:7:487:SER:O	1:7:493:ASN:ND2	2.41	0.47
1:C:499:PRO:HG3	1:M:447:THR:HG23	1.97	0.47
1:H:271:TYR:HA	1:H:380:ASN:ND2	2.29	0.47
1:K:716:GLY:HA2	1:L:256:TYR:O	2.15	0.47
1:N:338:THR:HG21	1:N:401:MET:HB3	1.97	0.47
1:N:420:HIS:CD2	1:N:726:THR:HG21	2.49	0.47
1:O:731:ARG:NH1	1:m:621:HIS:CD2	2.83	0.47
1:Q:353:LEU:HD23	1:Q:643:GLN:HG2	1.96	0.47
1:R:353:LEU:CD2	1:R:643:GLN:HG2	2.45	0.47
1:S:338:THR:HG21	1:S:401:MET:HB3	1.97	0.47
1:T:621:HIS:CD2	1:l:731:ARG:NH1	2.83	0.47
1:a:731:ARG:NH1	1:8:621:HIS:CD2	2.83	0.47
1:c:338:THR:HG21	1:c:401:MET:HB3	1.97	0.47
1:f:228[A]:HIS:O	1:f:243:THR:OG1	2.25	0.47
1:f:338:THR:HG21	1:f:401:MET:HB3	1.97	0.47
1:f:556:MET:HB3	1:f:723:PRO:HD3	1.98	0.47
1:g:499:PRO:HG3	1:h:447:THR:HG23	1.97	0.47
1:g:621:HIS:CD2	1:h:731:ARG:NH1	2.83	0.47
1:h:716:GLY:HA2	1:i:256:TYR:O	2.15	0.47
1:m:230:ASP:HB3	1:s:398:PRO:HD3	1.96	0.47
1:q:353:LEU:CD2	1:q:643:GLN:HG2	2.46	0.47
1:q:731:ARG:NH1	1:r:621:HIS:CD2	2.83	0.47
1:3:317:ILE:HD13	1:3:339:VAL:HG11	1.97	0.47
1:4:338:THR:HG21	1:4:401:MET:HB3	1.97	0.47
1:4:420:HIS:CD2	1:4:726:THR:HG21	2.49	0.47
1:D:731:ARG:HG2	1:D:732:ASN:N	2.30	0.46
1:E:621:HIS:CD2	1:F:731:ARG:NH1	2.83	0.46
1:G:353:LEU:CD2	1:G:643:GLN:HG2	2.45	0.46
1:I:228[B]:HIS:O	1:I:243:THR:OG1	2.27	0.46
1:J:338:THR:HG21	1:J:401:MET:HB3	1.97	0.46
1:K:420:HIS:CD2	1:K:726:THR:HG21	2.49	0.46
1:L:716:GLY:HA2	1:b:256:TYR:O	2.15	0.46
1:M:716:GLY:HA2	1:N:256:TYR:O	2.15	0.46
1:R:353:LEU:HD13	1:R:353:LEU:HA	1.66	0.46
1:R:556:MET:HB3	1:R:723:PRO:HD3	1.98	0.46
1:T:338:THR:HG21	1:T:401:MET:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:731:ARG:HG2	1:T:732:ASN:N	2.30	0.46
1:W:353:LEU:CD2	1:W:643:GLN:HG2	2.46	0.46
1:a:317:ILE:HD13	1:a:339:VAL:HG11	1.97	0.46
1:b:556:MET:HB3	1:b:723:PRO:HD3	1.98	0.46
1:f:256:TYR:O	1:z:716:GLY:HA2	2.15	0.46
1:g:228[B]:HIS:O	1:g:243:THR:OG1	2.27	0.46
1:i:420:HIS:CD2	1:i:726:THR:HG21	2.49	0.46
1:i:447:THR:HG23	1:j:499:PRO:HG3	1.95	0.46
1:m:338:THR:HG21	1:m:401:MET:HB3	1.97	0.46
1:m:353:LEU:CD2	1:m:643:GLN:HG2	2.46	0.46
1:m:487:SER:O	1:m:493:ASN:ND2	2.41	0.46
1:m:731:ARG:NH1	1:n:621:HIS:CD2	2.83	0.46
1:o:731:ARG:NH1	1:p:621:HIS:CD2	2.83	0.46
1:r:338:THR:HG21	1:r:401:MET:HB3	1.97	0.46
1:w:621:HIS:CD2	1:y:731:ARG:NH1	2.83	0.46
1:x:353:LEU:HD23	1:x:643:GLN:HG2	1.96	0.46
1:z:487:SER:O	1:z:493:ASN:ND2	2.41	0.46
1:z:621:HIS:CD2	1:2:731:ARG:NH1	2.83	0.46
1:6:353:LEU:CD2	1:6:643:GLN:HG2	2.46	0.46
1:7:317:ILE:HD13	1:7:339:VAL:HG11	1.97	0.46
1:C:271:TYR:HA	1:C:380:ASN:ND2	2.29	0.46
1:J:731:ARG:NH1	1:L:621:HIS:CD2	2.83	0.46
1:K:256:TYR:O	1:7:716:GLY:HA2	2.15	0.46
1:N:447:THR:HG23	1:P:499:PRO:HG3	1.95	0.46
1:N:731:ARG:NH1	1:P:621:HIS:CD2	2.83	0.46
1:P:353:LEU:HA	1:P:353:LEU:HD13	1.66	0.46
1:Q:317:ILE:HD13	1:Q:339:VAL:HG11	1.98	0.46
1:R:256:TYR:O	1:V:716:GLY:HA2	2.15	0.46
1:T:230:ASP:HB3	1:U:398:PRO:HD3	1.96	0.46
1:T:353:LEU:CD2	1:T:643:GLN:HG2	2.46	0.46
1:T:731:ARG:NH1	1:d:621:HIS:CD2	2.83	0.46
1:U:230:ASP:HB3	1:e:398:PRO:HD3	1.96	0.46
1:U:353:LEU:CD2	1:U:643:GLN:HG2	2.46	0.46
1:V:731:ARG:HG2	1:V:732:ASN:N	2.31	0.46
1:Y:317:ILE:HD13	1:Y:339:VAL:HG11	1.97	0.46
1:Y:487:SER:O	1:Y:493:ASN:ND2	2.41	0.46
1:Z:353:LEU:CD2	1:Z:643:GLN:HG2	2.46	0.46
1:c:398:PRO:HD3	1:s:230:ASP:HB3	1.96	0.46
1:d:353:LEU:HD23	1:d:643:GLN:HG2	1.96	0.46
1:g:271:TYR:HA	1:g:380:ASN:ND2	2.29	0.46
1:i:731:ARG:NH1	1:j:621:HIS:CD2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:716:GLY:HA2	1:x:256:TYR:O	2.15	0.46
1:m:731:ARG:HG2	1:m:732:ASN:N	2.31	0.46
1:r:353:LEU:CD2	1:r:643:GLN:HG2	2.46	0.46
1:s:353:LEU:CD2	1:s:643:GLN:HG2	2.46	0.46
1:t:353:LEU:CD2	1:t:643:GLN:HG2	2.46	0.46
1:x:317:ILE:HD13	1:x:339:VAL:HG11	1.97	0.46
1:z:353:LEU:CD2	1:z:643:GLN:HG2	2.46	0.46
1:5:271:TYR:HA	1:5:380:ASN:ND2	2.29	0.46
1:8:353:LEU:CD2	1:8:643:GLN:HG2	2.46	0.46
1:A:716:GLY:HA2	1:E:256:TYR:O	2.15	0.46
1:C:556:MET:HB3	1:C:723:PRO:HD3	1.98	0.46
1:D:621:HIS:CD2	1:P:731:ARG:NH1	2.83	0.46
1:E:271:TYR:HA	1:E:380:ASN:ND2	2.29	0.46
1:E:353:LEU:CD2	1:E:643:GLN:HG2	2.46	0.46
1:H:353:LEU:CD2	1:H:643:GLN:HG2	2.46	0.46
1:K:353:LEU:CD2	1:K:643:GLN:HG2	2.46	0.46
1:L:353:LEU:CD2	1:L:643:GLN:HG2	2.46	0.46
1:L:731:ARG:HG2	1:L:732:ASN:N	2.31	0.46
1:M:317:ILE:HD13	1:M:339:VAL:HG11	1.97	0.46
1:M:731:ARG:HG2	1:M:732:ASN:N	2.31	0.46
1:N:731:ARG:HG2	1:N:732:ASN:N	2.31	0.46
1:P:716:GLY:HA2	1:Q:256:TYR:O	2.15	0.46
1:R:621:HIS:CD2	1:U:731:ARG:NH1	2.83	0.46
1:S:228[B]:HIS:O	1:S:243:THR:OG1	2.27	0.46
1:S:353:LEU:CD2	1:S:643:GLN:HG2	2.46	0.46
1:T:487:SER:O	1:T:493:ASN:ND2	2.41	0.46
1:V:621:HIS:CD2	1:X:731:ARG:NH1	2.83	0.46
1:W:731:ARG:NH1	1:Y:621:HIS:CD2	2.83	0.46
1:X:716:GLY:HA2	1:Y:256:TYR:O	2.15	0.46
1:a:731:ARG:HG2	1:a:732:ASN:N	2.31	0.46
1:e:230:ASP:HB3	1:h:398:PRO:HD3	1.97	0.46
1:f:353:LEU:CD2	1:f:643:GLN:HG2	2.46	0.46
1:g:353:LEU:CD2	1:g:643:GLN:HG2	2.45	0.46
1:g:556:MET:HB3	1:g:723:PRO:HD3	1.98	0.46
1:k:731:ARG:HG2	1:k:732:ASN:N	2.31	0.46
1:n:731:ARG:HG2	1:n:732:ASN:N	2.31	0.46
1:o:716:GLY:HA2	1:7:256:TYR:O	2.15	0.46
1:p:716:GLY:HA2	1:q:256:TYR:O	2.15	0.46
1:p:731:ARG:HG2	1:p:732:ASN:N	2.31	0.46
1:q:317:ILE:HD13	1:q:339:VAL:HG11	1.97	0.46
1:q:556:MET:HB3	1:q:723:PRO:HD3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:731:ARG:HG2	1:r:732:ASN:N	2.31	0.46
1:w:271:TYR:HA	1:w:380:ASN:ND2	2.29	0.46
1:w:353:LEU:CD2	1:w:643:GLN:HG2	2.46	0.46
1:z:731:ARG:HG2	1:z:732:ASN:N	2.31	0.46
1:2:338:THR:HG21	1:2:401:MET:HB3	1.97	0.46
1:3:731:ARG:HG2	1:3:732:ASN:N	2.31	0.46
1:5:353:LEU:CD2	1:5:643:GLN:HG2	2.46	0.46
1:6:731:ARG:NH1	1:7:621:HIS:CD2	2.83	0.46
1:A:578:SER:O	1:G:482:ARG:HD3	2.15	0.46
1:B:621:HIS:CD2	1:L:731:ARG:NH1	2.83	0.46
1:C:228[B]:HIS:O	1:C:243:THR:OG1	2.27	0.46
1:C:353:LEU:CD2	1:C:643:GLN:HG2	2.46	0.46
1:E:340:GLN:HG2	1:E:401:MET:HG2	1.98	0.46
1:L:487:SER:O	1:L:493:ASN:ND2	2.41	0.46
1:M:398:PRO:HD3	1:c:230:ASP:HB3	1.96	0.46
1:M:556:MET:HB3	1:M:723:PRO:HD3	1.98	0.46
1:R:317:ILE:HD13	1:R:339:VAL:HG11	1.97	0.46
1:X:353:LEU:CD2	1:X:643:GLN:HG2	2.46	0.46
1:Y:716:GLY:HA2	1:4:256:TYR:O	2.15	0.46
1:Z:353:LEU:HA	1:Z:353:LEU:HD13	1.66	0.46
1:b:353:LEU:CD2	1:b:643:GLN:HG2	2.46	0.46
1:d:731:ARG:HG2	1:d:732:ASN:N	2.31	0.46
1:e:340:GLN:HG2	1:e:401:MET:HG2	1.98	0.46
1:h:317:ILE:HD13	1:h:339:VAL:HG11	1.97	0.46
1:h:556:MET:HB3	1:h:723:PRO:HD3	1.98	0.46
1:h:731:ARG:HG2	1:h:732:ASN:N	2.31	0.46
1:i:621:HIS:CD2	1:k:731:ARG:NH1	2.83	0.46
1:j:731:ARG:NH1	1:k:621:HIS:CD2	2.83	0.46
1:o:353:LEU:CD2	1:o:643:GLN:HG2	2.46	0.46
1:p:398:PRO:HD3	1:6:230:ASP:HB3	1.96	0.46
1:q:228[A]:HIS:O	1:q:243:THR:OG1	2.25	0.46
1:q:621:HIS:CD2	1:s:731:ARG:NH1	2.83	0.46
1:s:338:THR:HG21	1:s:401:MET:HB3	1.97	0.46
1:s:353:LEU:HA	1:s:353:LEU:HD13	1.66	0.46
1:t:340:GLN:HG2	1:t:401:MET:HG2	1.98	0.46
1:v:317:ILE:HD13	1:v:339:VAL:HG11	1.97	0.46
1:y:487:SER:O	1:y:493:ASN:ND2	2.41	0.46
1:4:353:LEU:CD2	1:4:643:GLN:HG2	2.46	0.46
1:A:317:ILE:HD13	1:A:339:VAL:HG11	1.97	0.46
1:B:340:GLN:HG2	1:B:401:MET:HG2	1.98	0.46
1:D:731:ARG:NH1	1:N:621:HIS:CD2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:340:GLN:HG2	1:G:401:MET:HG2	1.98	0.46
1:H:338:THR:HG21	1:H:401:MET:HB3	1.97	0.46
1:J:446:ARG:NH2	1:J:450:ALA:HA	2.31	0.46
1:M:353:LEU:CD2	1:M:643:GLN:HG2	2.46	0.46
1:P:230:ASP:HB3	1:Q:398:PRO:HD3	1.96	0.46
1:P:446:ARG:NH2	1:P:450:ALA:HA	2.31	0.46
1:P:731:ARG:HG2	1:P:732:ASN:N	2.31	0.46
1:S:731:ARG:HG2	1:S:732:ASN:N	2.31	0.46
1:U:338:THR:HG21	1:U:401:MET:HB3	1.97	0.46
1:V:398:PRO:HD3	1:W:230:ASP:HB3	1.96	0.46
1:Z:398:PRO:HD3	1:a:230:ASP:HB3	1.97	0.46
1:Z:731:ARG:NH1	1:4:621:HIS:CD2	2.84	0.46
1:Z:731:ARG:HG2	1:Z:732:ASN:N	2.31	0.46
1:c:340:GLN:HG2	1:c:401:MET:HG2	1.98	0.46
1:h:353:LEU:CD2	1:h:643:GLN:HG2	2.46	0.46
1:i:446:ARG:NH2	1:i:450:ALA:HA	2.31	0.46
1:i:731:ARG:HG2	1:i:732:ASN:N	2.31	0.46
1:j:230:ASP:HB3	1:x:398:PRO:HD3	1.96	0.46
1:k:256:TYR:O	1:w:716:GLY:HA2	2.14	0.46
1:s:556:MET:HB3	1:s:723:PRO:HD3	1.98	0.46
1:u:556:MET:HB3	1:u:723:PRO:HD3	1.98	0.46
1:z:731:ARG:NH1	1:1:621:HIS:CD2	2.83	0.46
1:1:317:ILE:HD13	1:1:339:VAL:HG11	1.97	0.46
1:1:340:GLN:HG2	1:1:401:MET:HG2	1.98	0.46
1:2:353:LEU:HA	1:2:353:LEU:HD13	1.66	0.46
1:3:556:MET:HB3	1:3:723:PRO:HD3	1.98	0.46
1:5:338:THR:HG21	1:5:401:MET:HB3	1.97	0.46
1:5:353:LEU:HA	1:5:353:LEU:HD13	1.66	0.46
1:7:556:MET:HB3	1:7:723:PRO:HD3	1.98	0.46
1:8:228[B]:HIS:O	1:8:243:THR:OG1	2.27	0.46
1:8:731:ARG:HG2	1:8:732:ASN:N	2.31	0.46
1:B:317:ILE:HD13	1:B:339:VAL:HG11	1.97	0.46
1:D:556:MET:HB3	1:D:723:PRO:HD3	1.98	0.46
1:E:731:ARG:HG2	1:E:732:ASN:N	2.31	0.46
1:J:556:MET:HB3	1:J:723:PRO:HD3	1.98	0.46
1:K:317:ILE:HD13	1:K:339:VAL:HG11	1.97	0.46
1:M:340:GLN:HG2	1:M:401:MET:HG2	1.98	0.46
1:N:446:ARG:NH2	1:N:450:ALA:HA	2.31	0.46
1:O:353:LEU:CD2	1:O:643:GLN:HG2	2.46	0.46
1:O:621:HIS:CD2	1:n:731:ARG:NH1	2.83	0.46
1:P:448:GLN:NE2	1:P:454:GLN:HB3	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:731:ARG:HG2	1:R:732:ASN:N	2.31	0.46
1:S:364:PHE:CE2	1:S:366:ALA:HB3	2.51	0.46
1:U:364:PHE:CE2	1:U:366:ALA:HB3	2.51	0.46
1:U:556:MET:HB3	1:U:723:PRO:HD3	1.98	0.46
1:V:353:LEU:CD2	1:V:643:GLN:HG2	2.46	0.46
1:V:556:MET:HB3	1:V:723:PRO:HD3	1.98	0.46
1:W:446:ARG:NH2	1:W:450:ALA:HA	2.31	0.46
1:X:364:PHE:CE2	1:X:366:ALA:HB3	2.51	0.46
1:Y:446:ARG:NH2	1:Y:450:ALA:HA	2.31	0.46
1:Y:556:MET:HB3	1:Y:723:PRO:HD3	1.98	0.46
1:a:287:HIS:CE1	1:a:363:PRO:HG3	2.51	0.46
1:b:446:ARG:NH2	1:b:450:ALA:HA	2.31	0.46
1:d:353:LEU:CD2	1:d:643:GLN:HG2	2.46	0.46
1:d:731:ARG:NH1	1:l:621:HIS:CD2	2.83	0.46
1:e:731:ARG:HG2	1:e:732:ASN:N	2.31	0.46
1:f:446:ARG:NH2	1:f:450:ALA:HA	2.31	0.46
1:h:340:GLN:HG2	1:h:401:MET:HG2	1.98	0.46
1:j:287:HIS:CE1	1:j:363:PRO:HG3	2.51	0.46
1:j:317:ILE:HD13	1:j:339:VAL:HG11	1.97	0.46
1:j:446:ARG:NH2	1:j:450:ALA:HA	2.31	0.46
1:j:731:ARG:HG2	1:j:732:ASN:N	2.31	0.46
1:k:338:THR:HG21	1:k:401:MET:HB3	1.97	0.46
1:k:556:MET:HB3	1:k:723:PRO:HD3	1.98	0.46
1:n:353:LEU:CD2	1:n:643:GLN:HG2	2.46	0.46
1:o:364:PHE:CE2	1:o:366:ALA:HB3	2.51	0.46
1:p:353:LEU:CD2	1:p:643:GLN:HG2	2.46	0.46
1:q:731:ARG:HG2	1:q:732:ASN:N	2.31	0.46
1:r:228[B]:HIS:O	1:r:243:THR:OG1	2.27	0.46
1:r:364:PHE:CE2	1:r:366:ALA:HB3	2.51	0.46
1:r:446:ARG:NH2	1:r:450:ALA:HA	2.31	0.46
1:v:353:LEU:CD2	1:v:643:GLN:HG2	2.46	0.46
1:w:340:GLN:HG2	1:w:401:MET:HG2	1.98	0.46
1:w:731:ARG:HG2	1:w:732:ASN:N	2.31	0.46
1:2:446:ARG:NH2	1:2:450:ALA:HA	2.31	0.46
1:3:287:HIS:CE1	1:3:363:PRO:HG3	2.51	0.46
1:3:716:GLY:HA2	1:8:256:TYR:O	2.15	0.46
1:6:446:ARG:NH2	1:6:450:ALA:HA	2.31	0.46
1:C:340:GLN:HG2	1:C:401:MET:HG2	1.98	0.46
1:C:446:ARG:NH2	1:C:450:ALA:HA	2.31	0.46
1:D:256:TYR:O	1:E:716:GLY:HA2	2.15	0.46
1:D:287:HIS:CE1	1:D:363:PRO:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:556:MET:HB3	1:F:723:PRO:HD3	1.98	0.46
1:G:317:ILE:HD13	1:G:339:VAL:HG11	1.97	0.46
1:H:256:TYR:O	1:Z:716:GLY:HA2	2.15	0.46
1:I:317:ILE:HD13	1:I:339:VAL:HG11	1.98	0.46
1:I:556:MET:HB3	1:I:723:PRO:HD3	1.98	0.46
1:K:731:ARG:HG2	1:K:732:ASN:N	2.31	0.46
1:O:364:PHE:CE2	1:O:366:ALA:HB3	2.51	0.46
1:P:317:ILE:HD13	1:P:339:VAL:HG11	1.98	0.46
1:P:340:GLN:HG2	1:P:401:MET:HG2	1.98	0.46
1:R:287:HIS:CE1	1:R:363:PRO:HG3	2.51	0.46
1:R:446:ARG:NH2	1:R:450:ALA:HA	2.31	0.46
1:W:317:ILE:HD13	1:W:339:VAL:HG11	1.97	0.46
1:X:446:ARG:NH2	1:X:450:ALA:HA	2.31	0.46
1:Z:256:TYR:O	1:a:716:GLY:HA2	2.14	0.46
1:a:556:MET:HB3	1:a:723:PRO:HD3	1.98	0.46
1:b:287:HIS:CE1	1:b:363:PRO:HG3	2.51	0.46
1:c:317:ILE:HD13	1:c:339:VAL:HG11	1.97	0.46
1:c:731:ARG:HG2	1:c:732:ASN:N	2.31	0.46
1:f:287:HIS:CE1	1:f:363:PRO:HG3	2.51	0.46
1:g:340:GLN:HG2	1:g:401:MET:HG2	1.98	0.46
1:j:353:LEU:HA	1:j:353:LEU:HD13	1.66	0.46
1:k:287:HIS:CE1	1:k:363:PRO:HG3	2.51	0.46
1:l:364:PHE:CE2	1:l:366:ALA:HB3	2.51	0.46
1:n:446:ARG:NH2	1:n:450:ALA:HA	2.31	0.46
1:q:446:ARG:NH2	1:q:450:ALA:HA	2.31	0.46
1:s:364:PHE:CE2	1:s:366:ALA:HB3	2.51	0.46
1:t:256:TYR:O	1:y:716:GLY:HA2	2.15	0.46
1:u:353:LEU:CD2	1:u:643:GLN:HG2	2.45	0.46
1:v:716:GLY:HA2	1:w:256:TYR:O	2.15	0.46
1:y:556:MET:HB3	1:y:723:PRO:HD3	1.98	0.46
1:2:556:MET:HB3	1:2:723:PRO:HD3	1.98	0.46
1:4:317:ILE:HD13	1:4:339:VAL:HG11	1.97	0.46
1:4:487:SER:O	1:4:493:ASN:ND2	2.41	0.46
1:4:731:ARG:HG2	1:4:732:ASN:N	2.31	0.46
1:5:731:ARG:HG2	1:5:732:ASN:N	2.31	0.46
1:6:317:ILE:HD13	1:6:339:VAL:HG11	1.97	0.46
1:7:446:ARG:NH2	1:7:450:ALA:HA	2.31	0.46
1:A:353:LEU:CD2	1:A:643:GLN:HG2	2.46	0.46
1:C:731:ARG:NH1	1:b:621:HIS:CD2	2.83	0.46
1:D:338:THR:HG21	1:D:401:MET:HB3	1.97	0.46
1:F:487:SER:O	1:F:493:ASN:ND2	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:612:GLN:OE1	1:G:612:GLN:N	2.49	0.46
1:I:353:LEU:CD2	1:I:643:GLN:HG2	2.46	0.46
1:J:364:PHE:CE2	1:J:366:ALA:HB3	2.51	0.46
1:J:731:ARG:HG2	1:J:732:ASN:N	2.31	0.46
1:K:364:PHE:CE2	1:K:366:ALA:HB3	2.51	0.46
1:M:287:HIS:CE1	1:M:363:PRO:HG3	2.51	0.46
1:O:340:GLN:HG2	1:O:401:MET:HG2	1.98	0.46
1:P:287:HIS:CE1	1:P:363:PRO:HG3	2.51	0.46
1:Q:364:PHE:CE2	1:Q:366:ALA:HB3	2.51	0.46
1:S:446:ARG:NH2	1:S:450:ALA:HA	2.31	0.46
1:U:731:ARG:HG2	1:U:732:ASN:N	2.31	0.46
1:b:487:SER:O	1:b:493:ASN:ND2	2.41	0.46
1:d:446:ARG:NH2	1:d:450:ALA:HA	2.31	0.46
1:e:317:ILE:HD13	1:e:339:VAL:HG11	1.97	0.46
1:f:487:SER:O	1:f:493:ASN:ND2	2.41	0.46
1:f:621:HIS:CD2	1:g:731:ARG:NH1	2.83	0.46
1:g:446:ARG:NH2	1:g:450:ALA:HA	2.31	0.46
1:g:482:ARG:HD3	1:h:578:SER:O	2.16	0.46
1:j:340:GLN:HG2	1:j:401:MET:HG2	1.98	0.46
1:j:398:PRO:HD3	1:l:230:ASP:HB3	1.96	0.46
1:l:296:GLN:NE2	1:l:698:TYR:O	2.49	0.46
1:l:353:LEU:CD2	1:l:643:GLN:HG2	2.46	0.46
1:m:612:GLN:N	1:m:612:GLN:OE1	2.49	0.46
1:o:446:ARG:NH2	1:o:450:ALA:HA	2.31	0.46
1:p:556:MET:HB3	1:p:723:PRO:HD3	1.98	0.46
1:t:317:ILE:HD13	1:t:339:VAL:HG11	1.97	0.46
1:t:612:GLN:OE1	1:t:612:GLN:N	2.49	0.46
1:u:317:ILE:HD13	1:u:339:VAL:HG11	1.97	0.46
1:u:487:SER:O	1:u:493:ASN:ND2	2.41	0.46
1:w:446:ARG:NH2	1:w:450:ALA:HA	2.31	0.46
1:x:364:PHE:CE2	1:x:366:ALA:HB3	2.51	0.46
1:2:353:LEU:CD2	1:2:643:GLN:HG2	2.45	0.46
1:2:364:PHE:CE2	1:2:366:ALA:HB3	2.51	0.46
1:4:364:PHE:CE2	1:4:366:ALA:HB3	2.51	0.46
1:7:612:GLN:N	1:7:612:GLN:OE1	2.49	0.46
1:A:353:LEU:HA	1:A:353:LEU:HD13	1.66	0.46
1:A:612:GLN:OE1	1:A:612:GLN:N	2.49	0.46
1:B:446:ARG:NH2	1:B:450:ALA:HA	2.31	0.46
1:B:731:ARG:HG2	1:B:732:ASN:N	2.31	0.46
1:C:482:ARG:HD3	1:M:578:SER:O	2.16	0.46
1:D:340:GLN:HG2	1:D:401:MET:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:446:ARG:NH2	1:D:450:ALA:HA	2.31	0.46
1:E:446:ARG:NH2	1:E:450:ALA:HA	2.31	0.46
1:F:287:HIS:CE1	1:F:363:PRO:HG3	2.51	0.46
1:G:446:ARG:NH2	1:G:450:ALA:HA	2.31	0.46
1:H:731:ARG:HG2	1:H:732:ASN:N	2.31	0.46
1:I:296:GLN:NE2	1:I:698:TYR:O	2.49	0.46
1:J:353:LEU:CD2	1:J:643:GLN:HG2	2.46	0.46
1:K:487:SER:O	1:K:493:ASN:ND2	2.41	0.46
1:L:446:ARG:NH2	1:L:450:ALA:HA	2.31	0.46
1:M:338:THR:HG21	1:M:401:MET:HB3	1.97	0.46
1:O:296:GLN:NE2	1:O:698:TYR:O	2.49	0.46
1:O:731:ARG:HG2	1:O:732:ASN:N	2.31	0.46
1:U:716:GLY:HA2	1:e:256:TYR:O	2.15	0.46
1:Y:612:GLN:OE1	1:Y:612:GLN:N	2.49	0.46
1:Y:731:ARG:HG2	1:Y:732:ASN:N	2.30	0.46
1:b:612:GLN:OE1	1:b:612:GLN:N	2.49	0.46
1:c:612:GLN:OE1	1:c:612:GLN:N	2.49	0.46
1:e:612:GLN:N	1:e:612:GLN:OE1	2.49	0.46
1:f:612:GLN:OE1	1:f:612:GLN:N	2.49	0.46
1:h:287:HIS:CE1	1:h:363:PRO:HG3	2.51	0.46
1:k:446:ARG:NH2	1:k:450:ALA:HA	2.31	0.46
1:l:340:GLN:HG2	1:l:401:MET:HG2	1.98	0.46
1:o:612:GLN:OE1	1:o:612:GLN:N	2.49	0.46
1:u:296:GLN:NE2	1:u:698:TYR:O	2.49	0.46
1:v:446:ARG:NH2	1:v:450:ALA:HA	2.31	0.46
1:w:482:ARG:HD3	1:y:578:SER:O	2.16	0.46
1:y:364:PHE:CE2	1:y:366:ALA:HB3	2.51	0.46
1:z:446:ARG:NH2	1:z:450:ALA:HA	2.31	0.46
1:1:364:PHE:CE2	1:1:366:ALA:HB3	2.51	0.46
1:1:731:ARG:HG2	1:1:732:ASN:N	2.31	0.46
1:2:731:ARG:HG2	1:2:732:ASN:N	2.31	0.46
1:3:353:LEU:CD2	1:3:643:GLN:HG2	2.46	0.46
1:A:338:THR:HG21	1:A:401:MET:HB3	1.97	0.46
1:A:446:ARG:NH2	1:A:450:ALA:HA	2.31	0.46
1:A:482:ARG:HD3	1:I:578:SER:O	2.16	0.46
1:A:731:ARG:NH1	1:G:621:HIS:CD2	2.83	0.46
1:B:287:HIS:CE1	1:B:363:PRO:HG3	2.51	0.46
1:B:353:LEU:CD2	1:B:643:GLN:HG2	2.46	0.46
1:B:364:PHE:CE2	1:B:366:ALA:HB3	2.51	0.46
1:E:482:ARG:HD3	1:F:578:SER:O	2.16	0.46
1:F:364:PHE:CE2	1:F:366:ALA:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:482:ARG:HD3	1:Q:578:SER:O	2.16	0.46
1:F:716:GLY:HA2	1:G:256:TYR:O	2.15	0.46
1:I:612:GLN:OE1	1:I:612:GLN:N	2.49	0.46
1:J:287:HIS:CE1	1:J:363:PRO:HG3	2.51	0.46
1:K:446:ARG:NH2	1:K:450:ALA:HA	2.31	0.46
1:P:296:GLN:NE2	1:P:698:TYR:O	2.49	0.46
1:T:612:GLN:OE1	1:T:612:GLN:N	2.49	0.46
1:U:612:GLN:N	1:U:612:GLN:OE1	2.49	0.46
1:X:612:GLN:N	1:X:612:GLN:OE1	2.49	0.46
1:Y:296:GLN:NE2	1:Y:698:TYR:O	2.49	0.46
1:Z:228[B]:HIS:O	1:Z:243:THR:OG1	2.27	0.46
1:h:338:THR:HG21	1:h:401:MET:HB3	1.97	0.46
1:j:296:GLN:NE2	1:j:698:TYR:O	2.49	0.46
1:k:340:GLN:HG2	1:k:401:MET:HG2	1.98	0.46
1:l:446:ARG:NH2	1:l:450:ALA:HA	2.31	0.46
1:n:353:LEU:HA	1:n:353:LEU:HD13	1.66	0.46
1:p:338:THR:HG21	1:p:401:MET:HB3	1.97	0.46
1:q:287:HIS:CE1	1:q:363:PRO:HG3	2.51	0.46
1:r:731:ARG:NH1	1:s:621:HIS:CD2	2.83	0.46
1:s:731:ARG:HG2	1:s:732:ASN:N	2.31	0.46
1:t:446:ARG:NH2	1:t:450:ALA:HA	2.31	0.46
1:t:482:ARG:HD3	1:v:578:SER:O	2.16	0.46
1:u:228[B]:HIS:O	1:u:243:THR:OG1	2.27	0.46
1:u:578:SER:O	1:v:482:ARG:HD3	2.16	0.46
1:u:612:GLN:N	1:u:612:GLN:OE1	2.49	0.46
1:v:338:THR:HG21	1:v:401:MET:HB3	1.97	0.46
1:v:612:GLN:OE1	1:v:612:GLN:N	2.49	0.46
1:x:578:SER:O	1:y:482:ARG:HD3	2.17	0.46
1:y:353:LEU:CD2	1:y:643:GLN:HG2	2.46	0.46
1:z:317:ILE:HD13	1:z:339:VAL:HG11	1.97	0.46
1:1:353:LEU:CD2	1:1:643:GLN:HG2	2.46	0.46
1:3:296:GLN:NE2	1:3:698:TYR:O	2.49	0.46
1:4:446:ARG:NH2	1:4:450:ALA:HA	2.31	0.46
1:7:296:GLN:NE2	1:7:698:TYR:O	2.49	0.46
1:7:353:LEU:CD2	1:7:643:GLN:HG2	2.46	0.46
1:F:353:LEU:CD2	1:F:643:GLN:HG2	2.46	0.45
1:F:731:ARG:HG2	1:F:732:ASN:N	2.31	0.45
1:G:228[B]:HIS:O	1:G:243:THR:OG1	2.27	0.45
1:G:296:GLN:NE2	1:G:698:TYR:O	2.49	0.45
1:H:287:HIS:CE1	1:H:363:PRO:HG3	2.51	0.45
1:I:446:ARG:NH2	1:I:450:ALA:HA	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:612:GLN:N	1:J:612:GLN:OE1	2.49	0.45
1:K:340:GLN:HG2	1:K:401:MET:HG2	1.98	0.45
1:L:317:ILE:HD13	1:L:339:VAL:HG11	1.97	0.45
1:M:612:GLN:N	1:M:612:GLN:OE1	2.49	0.45
1:N:556:MET:HB3	1:N:723:PRO:HD3	1.98	0.45
1:O:230:ASP:HB3	1:P:398:PRO:HD3	1.96	0.45
1:O:446:ARG:NH2	1:O:450:ALA:HA	2.31	0.45
1:S:296:GLN:NE2	1:S:698:TYR:O	2.49	0.45
1:T:296:GLN:NE2	1:T:698:TYR:O	2.49	0.45
1:V:338:THR:HG21	1:V:401:MET:HB3	1.97	0.45
1:W:556:MET:HB3	1:W:723:PRO:HD3	1.98	0.45
1:X:317:ILE:HD13	1:X:339:VAL:HG11	1.97	0.45
1:X:556:MET:HB3	1:X:723:PRO:HD3	1.98	0.45
1:a:296:GLN:NE2	1:a:698:TYR:O	2.49	0.45
1:a:353:LEU:CD2	1:a:643:GLN:HG2	2.46	0.45
1:b:731:ARG:HG2	1:b:732:ASN:N	2.31	0.45
1:c:256:TYR:O	1:s:716:GLY:HA2	2.15	0.45
1:d:364:PHE:CE2	1:d:366:ALA:HB3	2.51	0.45
1:e:296:GLN:NE2	1:e:698:TYR:O	2.49	0.45
1:f:731:ARG:HG2	1:f:732:ASN:N	2.31	0.45
1:h:612:GLN:N	1:h:612:GLN:OE1	2.49	0.45
1:i:556:MET:HB3	1:i:723:PRO:HD3	1.98	0.45
1:l:731:ARG:HG2	1:l:732:ASN:N	2.31	0.45
1:m:296:GLN:NE2	1:m:698:TYR:O	2.49	0.45
1:m:446:ARG:NH2	1:m:450:ALA:HA	2.31	0.45
1:n:287:HIS:CE1	1:n:363:PRO:HG3	2.51	0.45
1:o:317:ILE:HD13	1:o:339:VAL:HG11	1.98	0.45
1:o:556:MET:HB3	1:o:723:PRO:HD3	1.98	0.45
1:q:612:GLN:OE1	1:q:612:GLN:N	2.49	0.45
1:r:296:GLN:NE2	1:r:698:TYR:O	2.49	0.45
1:s:446:ARG:NH2	1:s:450:ALA:HA	2.31	0.45
1:t:296:GLN:NE2	1:t:698:TYR:O	2.49	0.45
1:y:287:HIS:CE1	1:y:363:PRO:HG3	2.51	0.45
1:y:612:GLN:OE1	1:y:612:GLN:N	2.49	0.45
1:y:731:ARG:HG2	1:y:732:ASN:N	2.31	0.45
1:1:446:ARG:NH2	1:1:450:ALA:HA	2.31	0.45
1:2:287:HIS:CE1	1:2:363:PRO:HG3	2.51	0.45
1:3:364:PHE:CE2	1:3:366:ALA:HB3	2.51	0.45
1:4:340:GLN:HG2	1:4:401:MET:HG2	1.98	0.45
1:4:612:GLN:OE1	1:4:612:GLN:N	2.49	0.45
1:5:287:HIS:CE1	1:5:363:PRO:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:621:HIS:CD2	1:7:731:ARG:NH1	2.83	0.45
1:6:228[B]:HIS:O	1:6:243:THR:OG1	2.27	0.45
1:6:556:MET:HB3	1:6:723:PRO:HD3	1.98	0.45
1:7:287:HIS:CE1	1:7:363:PRO:HG3	2.51	0.45
1:A:643:GLN:HB3	1:A:645:MET:HE2	1.99	0.45
1:A:731:ARG:HG2	1:A:732:ASN:N	2.31	0.45
1:E:317:ILE:HD13	1:E:339:VAL:HG11	1.97	0.45
1:F:612:GLN:OE1	1:F:612:GLN:N	2.49	0.45
1:G:338:THR:HG21	1:G:401:MET:HB3	1.97	0.45
1:I:487:SER:O	1:I:493:ASN:ND2	2.41	0.45
1:K:612:GLN:OE1	1:K:612:GLN:N	2.49	0.45
1:L:296:GLN:NE2	1:L:698:TYR:O	2.49	0.45
1:P:612:GLN:OE1	1:P:612:GLN:N	2.49	0.45
1:R:340:GLN:HG2	1:R:401:MET:HG2	1.98	0.45
1:R:612:GLN:N	1:R:612:GLN:OE1	2.49	0.45
1:S:287:HIS:CE1	1:S:363:PRO:HG3	2.51	0.45
1:S:731:ARG:NH1	1:U:621:HIS:CD2	2.83	0.45
1:U:340:GLN:HG2	1:U:401:MET:HG2	1.98	0.45
1:U:446:ARG:NH2	1:U:450:ALA:HA	2.31	0.45
1:V:364:PHE:CE2	1:V:366:ALA:HB3	2.51	0.45
1:W:228[B]:HIS:O	1:W:243:THR:OG1	2.27	0.45
1:W:364:PHE:CE2	1:W:366:ALA:HB3	2.51	0.45
1:X:287:HIS:CE1	1:X:363:PRO:HG3	2.51	0.45
1:Y:287:HIS:CE1	1:Y:363:PRO:HG3	2.51	0.45
1:Y:338:THR:HG21	1:Y:401:MET:HB3	1.97	0.45
1:Y:353:LEU:CD2	1:Y:643:GLN:HG2	2.46	0.45
1:Z:287:HIS:CE1	1:Z:363:PRO:HG3	2.51	0.45
1:Z:317:ILE:HD13	1:Z:339:VAL:HG11	1.98	0.45
1:a:364:PHE:CE2	1:a:366:ALA:HB3	2.51	0.45
1:a:612:GLN:OE1	1:a:612:GLN:N	2.49	0.45
1:b:340:GLN:HG2	1:b:401:MET:HG2	1.98	0.45
1:c:287:HIS:CE1	1:c:363:PRO:HG3	2.51	0.45
1:c:296:GLN:NE2	1:c:698:TYR:O	2.49	0.45
1:c:353:LEU:CD2	1:c:643:GLN:HG2	2.45	0.45
1:d:287:HIS:CE1	1:d:363:PRO:HG3	2.51	0.45
1:f:340:GLN:HG2	1:f:401:MET:HG2	1.98	0.45
1:j:448:GLN:NE2	1:j:454:GLN:HB3	2.18	0.45
1:k:364:PHE:CE2	1:k:366:ALA:HB3	2.51	0.45
1:m:556:MET:HB3	1:m:723:PRO:HD3	1.98	0.45
1:n:364:PHE:CE2	1:n:366:ALA:HB3	2.51	0.45
1:p:287:HIS:CE1	1:p:363:PRO:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:364:PHE:CE2	1:p:366:ALA:HB3	2.51	0.45
1:q:340:GLN:HG2	1:q:401:MET:HG2	1.98	0.45
1:r:287:HIS:CE1	1:r:363:PRO:HG3	2.51	0.45
1:s:612:GLN:OE1	1:s:612:GLN:N	2.49	0.45
1:t:621:HIS:CD2	1:v:731:ARG:NH1	2.84	0.45
1:u:446:ARG:NH2	1:u:450:ALA:HA	2.31	0.45
1:v:340:GLN:HG2	1:v:401:MET:HG2	1.98	0.45
1:v:643:GLN:HB3	1:v:645:MET:HE2	1.99	0.45
1:v:731:ARG:HG2	1:v:732:ASN:N	2.31	0.45
1:x:731:ARG:HG2	1:x:732:ASN:N	2.31	0.45
1:1:287:HIS:CE1	1:1:363:PRO:HG3	2.51	0.45
1:2:612:GLN:N	1:2:612:GLN:OE1	2.49	0.45
1:4:287:HIS:CE1	1:4:363:PRO:HG3	2.51	0.45
1:5:556:MET:HB3	1:5:723:PRO:HD3	1.98	0.45
1:6:296:GLN:NE2	1:6:698:TYR:O	2.49	0.45
1:6:364:PHE:CE2	1:6:366:ALA:HB3	2.51	0.45
1:7:338:THR:HG21	1:7:401:MET:HB3	1.97	0.45
1:8:287:HIS:CE1	1:8:363:PRO:HG3	2.51	0.45
1:8:353:LEU:HA	1:8:353:LEU:HD13	1.66	0.45
1:A:340:GLN:HG2	1:A:401:MET:HG2	1.98	0.45
1:B:731:ARG:NH1	1:J:621:HIS:CD2	2.83	0.45
1:C:317:ILE:HD13	1:C:339:VAL:HG11	1.98	0.45
1:D:364:PHE:CE2	1:D:366:ALA:HB3	2.51	0.45
1:E:556:MET:HB3	1:E:723:PRO:HD3	1.98	0.45
1:H:364:PHE:CE2	1:H:366:ALA:HB3	2.51	0.45
1:H:621:HIS:CD2	1:Y:731:ARG:NH1	2.83	0.45
1:J:228[B]:HIS:O	1:J:243:THR:OG1	2.27	0.45
1:J:340:GLN:HG2	1:J:401:MET:HG2	1.98	0.45
1:K:287:HIS:CE1	1:K:363:PRO:HG3	2.51	0.45
1:L:287:HIS:CE1	1:L:363:PRO:HG3	2.51	0.45
1:L:643:GLN:HB3	1:L:645:MET:HE2	1.99	0.45
1:N:340:GLN:HG2	1:N:401:MET:HG2	1.98	0.45
1:Q:353:LEU:CD2	1:Q:643:GLN:HG2	2.46	0.45
1:Q:731:ARG:HG2	1:Q:732:ASN:N	2.31	0.45
1:T:446:ARG:NH2	1:T:450:ALA:HA	2.31	0.45
1:U:317:ILE:HD13	1:U:339:VAL:HG11	1.97	0.45
1:W:612:GLN:OE1	1:W:612:GLN:N	2.49	0.45
1:Z:340:GLN:HG2	1:Z:401:MET:HG2	1.98	0.45
1:Z:446:ARG:NH2	1:Z:450:ALA:HA	2.31	0.45
1:c:556:MET:HB3	1:c:723:PRO:HD3	1.98	0.45
1:d:612:GLN:OE1	1:d:612:GLN:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:643:GLN:HB3	1:e:645:MET:HE2	1.99	0.45
1:j:612:GLN:OE1	1:j:612:GLN:N	2.49	0.45
1:n:612:GLN:OE1	1:n:612:GLN:N	2.49	0.45
1:o:287:HIS:CE1	1:o:363:PRO:HG3	2.51	0.45
1:s:296:GLN:NE2	1:s:698:TYR:O	2.49	0.45
1:s:317:ILE:HD13	1:s:339:VAL:HG11	1.97	0.45
1:s:340:GLN:HG2	1:s:401:MET:HG2	1.98	0.45
1:t:228[B]:HIS:O	1:t:243:THR:OG1	2.27	0.45
1:t:338:THR:HG21	1:t:401:MET:HB3	1.97	0.45
1:w:556:MET:HB3	1:w:723:PRO:HD3	1.98	0.45
1:x:353:LEU:CD2	1:x:643:GLN:HG2	2.46	0.45
1:z:296:GLN:NE2	1:z:698:TYR:O	2.49	0.45
1:z:643:GLN:HB3	1:z:645:MET:HE2	1.99	0.45
1:1:731:ARG:NH1	1:2:621:HIS:CD2	2.83	0.45
1:2:340:GLN:HG2	1:2:401:MET:HG2	1.98	0.45
1:3:612:GLN:OE1	1:3:612:GLN:N	2.49	0.45
1:4:643:GLN:HB3	1:4:645:MET:HE2	1.99	0.45
1:6:612:GLN:OE1	1:6:612:GLN:N	2.49	0.45
1:7:731:ARG:HG2	1:7:732:ASN:N	2.31	0.45
1:8:317:ILE:HD13	1:8:339:VAL:HG11	1.97	0.45
1:A:228[B]:HIS:O	1:A:243:THR:OG1	2.27	0.45
1:B:643:GLN:HB3	1:B:645:MET:HE2	1.99	0.45
1:D:612:GLN:OE1	1:D:612:GLN:N	2.49	0.45
1:E:287:HIS:CE1	1:E:363:PRO:HG3	2.51	0.45
1:G:364:PHE:CE2	1:G:366:ALA:HB3	2.51	0.45
1:H:556:MET:HB3	1:H:723:PRO:HD3	1.98	0.45
1:I:643:GLN:HB3	1:I:645:MET:HE2	1.99	0.45
1:K:643:GLN:HB3	1:K:645:MET:HE2	1.99	0.45
1:P:353:LEU:CD2	1:P:643:GLN:HG2	2.46	0.45
1:R:364:PHE:CE2	1:R:366:ALA:HB3	2.51	0.45
1:U:296:GLN:NE2	1:U:698:TYR:O	2.49	0.45
1:V:287:HIS:CE1	1:V:363:PRO:HG3	2.51	0.45
1:V:317:ILE:HD13	1:V:339:VAL:HG11	1.97	0.45
1:W:296:GLN:NE2	1:W:698:TYR:O	2.49	0.45
1:W:643:GLN:HB3	1:W:645:MET:HE2	1.99	0.45
1:Y:340:GLN:HG2	1:Y:401:MET:HG2	1.98	0.45
1:Z:612:GLN:N	1:Z:612:GLN:OE1	2.49	0.45
1:a:340:GLN:HG2	1:a:401:MET:HG2	1.98	0.45
1:c:643:GLN:HB3	1:c:645:MET:HE2	1.99	0.45
1:d:317:ILE:HD13	1:d:339:VAL:HG11	1.97	0.45
1:d:353:LEU:HA	1:d:353:LEU:HD13	1.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:287:HIS:CE1	1:e:363:PRO:HG3	2.51	0.45
1:e:353:LEU:CD2	1:e:643:GLN:HG2	2.46	0.45
1:e:364:PHE:CE2	1:e:366:ALA:HB3	2.51	0.45
1:e:556:MET:HB3	1:e:723:PRO:HD3	1.98	0.45
1:g:317:ILE:HD13	1:g:339:VAL:HG11	1.98	0.45
1:i:353:LEU:CD2	1:i:643:GLN:HG2	2.46	0.45
1:j:228[B]:HIS:O	1:j:243:THR:OG1	2.27	0.45
1:j:353:LEU:CD2	1:j:643:GLN:HG2	2.46	0.45
1:l:317:ILE:HD13	1:l:339:VAL:HG11	1.97	0.45
1:n:317:ILE:HD13	1:n:339:VAL:HG11	1.97	0.45
1:o:731:ARG:HG2	1:o:732:ASN:N	2.31	0.45
1:u:643:GLN:HB3	1:u:645:MET:HE2	1.99	0.45
1:v:228[B]:HIS:O	1:v:243:THR:OG1	2.27	0.45
1:w:287:HIS:CE1	1:w:363:PRO:HG3	2.51	0.45
1:w:317:ILE:HD13	1:w:339:VAL:HG11	1.98	0.45
1:1:643:GLN:HB3	1:1:645:MET:HE2	1.99	0.45
1:4:228[B]:HIS:O	1:4:243:THR:OG1	2.27	0.45
1:5:364:PHE:CE2	1:5:366:ALA:HB3	2.51	0.45
1:8:556:MET:HB3	1:8:723:PRO:HD3	1.98	0.45
1:A:287:HIS:CE1	1:A:363:PRO:HG3	2.51	0.45
1:B:556:MET:HB3	1:B:723:PRO:HD3	1.98	0.45
1:B:612:GLN:N	1:B:612:GLN:OE1	2.49	0.45
1:L:556:MET:HB3	1:L:723:PRO:HD3	1.98	0.45
1:N:353:LEU:CD2	1:N:643:GLN:HG2	2.46	0.45
1:O:317:ILE:HD13	1:O:339:VAL:HG11	1.97	0.45
1:O:643:GLN:HB3	1:O:645:MET:HE2	1.99	0.45
1:Q:556:MET:HB3	1:Q:723:PRO:HD3	1.98	0.45
1:S:612:GLN:OE1	1:S:612:GLN:N	2.49	0.45
1:T:556:MET:HB3	1:T:723:PRO:HD3	1.98	0.45
1:U:448:GLN:NE2	1:U:454:GLN:HB3	2.18	0.45
1:V:612:GLN:OE1	1:V:612:GLN:N	2.49	0.45
1:X:731:ARG:HG2	1:X:732:ASN:N	2.31	0.45
1:Z:296:GLN:NE2	1:Z:698:TYR:O	2.49	0.45
1:Z:556:MET:HB3	1:Z:723:PRO:HD3	1.98	0.45
1:a:338:THR:HG21	1:a:401:MET:HB3	1.97	0.45
1:b:317:ILE:HD13	1:b:339:VAL:HG11	1.97	0.45
1:b:364:PHE:CE2	1:b:366:ALA:HB3	2.51	0.45
1:c:364:PHE:CE2	1:c:366:ALA:HB3	2.51	0.45
1:i:340:GLN:HG2	1:i:401:MET:HG2	1.98	0.45
1:i:364:PHE:CE2	1:i:366:ALA:HB3	2.51	0.45
1:k:612:GLN:OE1	1:k:612:GLN:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:578:SER:O	1:p:482:ARG:HD3	2.16	0.45
1:r:612:GLN:OE1	1:r:612:GLN:N	2.49	0.45
1:s:287:HIS:CE1	1:s:363:PRO:HG3	2.51	0.45
1:s:448:GLN:NE2	1:s:454:GLN:HB3	2.18	0.45
1:t:364:PHE:CE2	1:t:366:ALA:HB3	2.51	0.45
1:t:731:ARG:HG2	1:t:732:ASN:N	2.31	0.45
1:v:353:LEU:HA	1:v:353:LEU:HD13	1.66	0.45
1:x:287:HIS:CE1	1:x:363:PRO:HG3	2.51	0.45
1:z:338:THR:HG21	1:z:401:MET:HB3	1.97	0.45
1:2:228[B]:HIS:O	1:2:243:THR:OG1	2.27	0.45
1:5:296:GLN:NE2	1:5:698:TYR:O	2.49	0.45
1:5:317:ILE:HD13	1:5:339:VAL:HG11	1.97	0.45
1:6:643:GLN:HB3	1:6:645:MET:HE2	1.99	0.45
1:8:446:ARG:NH2	1:8:450:ALA:HA	2.31	0.45
1:8:612:GLN:OE1	1:8:612:GLN:N	2.49	0.45
1:D:353:LEU:CD2	1:D:643:GLN:HG2	2.46	0.45
1:D:643:GLN:HB3	1:D:645:MET:HE2	1.99	0.45
1:G:287:HIS:CE1	1:G:363:PRO:HG3	2.51	0.45
1:G:731:ARG:HG2	1:G:732:ASN:N	2.31	0.45
1:H:296:GLN:NE2	1:H:698:TYR:O	2.49	0.45
1:I:731:ARG:HG2	1:I:732:ASN:N	2.31	0.45
1:K:296:GLN:NE2	1:K:698:TYR:O	2.49	0.45
1:M:643:GLN:HB3	1:M:645:MET:HE2	1.99	0.45
1:N:224:SER:HG	1:N:316:ASN:H	1.65	0.45
1:N:287:HIS:CE1	1:N:363:PRO:HG3	2.51	0.45
1:O:287:HIS:CE1	1:O:363:PRO:HG3	2.51	0.45
1:S:643:GLN:HB3	1:S:645:MET:HE2	1.99	0.45
1:U:287:HIS:CE1	1:U:363:PRO:HG3	2.51	0.45
1:U:643:GLN:HB3	1:U:645:MET:HE2	1.99	0.45
1:V:340:GLN:HG2	1:V:401:MET:HG2	1.98	0.45
1:V:482:ARG:HD3	1:X:578:SER:O	2.16	0.45
1:W:562:GLU:HA	1:Y:388:ARG:HH12	1.82	0.45
1:X:296:GLN:NE2	1:X:698:TYR:O	2.49	0.45
1:Y:364:PHE:CE2	1:Y:366:ALA:HB3	2.51	0.45
1:e:446:ARG:NH2	1:e:450:ALA:HA	2.31	0.45
1:f:317:ILE:HD13	1:f:339:VAL:HG11	1.97	0.45
1:f:364:PHE:CE2	1:f:366:ALA:HB3	2.51	0.45
1:g:731:ARG:HG2	1:g:732:ASN:N	2.31	0.45
1:h:446:ARG:NH2	1:h:450:ALA:HA	2.31	0.45
1:h:643:GLN:HB3	1:h:645:MET:HE2	1.99	0.45
1:i:287:HIS:CE1	1:i:363:PRO:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:296:GLN:NE2	1:i:698:TYR:O	2.49	0.45
1:l:287:HIS:CE1	1:l:363:PRO:HG3	2.51	0.45
1:m:340:GLN:HG2	1:m:401:MET:HG2	1.98	0.45
1:p:317:ILE:HD13	1:p:339:VAL:HG11	1.98	0.45
1:p:340:GLN:HG2	1:p:401:MET:HG2	1.98	0.45
1:p:612:GLN:N	1:p:612:GLN:OE1	2.49	0.45
1:q:364:PHE:CE2	1:q:366:ALA:HB3	2.51	0.45
1:r:643:GLN:HB3	1:r:645:MET:HE2	1.99	0.45
1:u:364:PHE:CE2	1:u:366:ALA:HB3	2.51	0.45
1:u:731:ARG:HG2	1:u:732:ASN:N	2.31	0.45
1:v:287:HIS:CE1	1:v:363:PRO:HG3	2.51	0.45
1:x:340:GLN:HG2	1:x:401:MET:HG2	1.98	0.45
1:z:287:HIS:CE1	1:z:363:PRO:HG3	2.51	0.45
1:1:556:MET:HB3	1:1:723:PRO:HD3	1.98	0.45
1:1:612:GLN:OE1	1:1:612:GLN:N	2.49	0.45
1:3:340:GLN:HG2	1:3:401:MET:HG2	1.98	0.45
1:4:296:GLN:NE2	1:4:698:TYR:O	2.49	0.45
1:5:446:ARG:NH2	1:5:450:ALA:HA	2.31	0.45
1:6:287:HIS:CE1	1:6:363:PRO:HG3	2.51	0.45
1:7:340:GLN:HG2	1:7:401:MET:HG2	1.98	0.45
1:7:364:PHE:CE2	1:7:366:ALA:HB3	2.51	0.45
1:8:340:GLN:HG2	1:8:401:MET:HG2	1.98	0.45
1:B:296:GLN:NE2	1:B:698:TYR:O	2.49	0.45
1:C:612:GLN:OE1	1:C:612:GLN:N	2.49	0.45
1:C:731:ARG:HG2	1:C:732:ASN:N	2.31	0.45
1:E:612:GLN:N	1:E:612:GLN:OE1	2.49	0.45
1:J:317:ILE:HD13	1:J:339:VAL:HG11	1.97	0.45
1:K:228[B]:HIS:O	1:K:243:THR:OG1	2.27	0.45
1:L:338:THR:HG21	1:L:401:MET:HB3	1.97	0.45
1:M:446:ARG:NH2	1:M:450:ALA:HA	2.31	0.45
1:N:364:PHE:CE2	1:N:366:ALA:HB3	2.51	0.45
1:O:556:MET:HB3	1:O:723:PRO:HD3	1.98	0.45
1:O:612:GLN:OE1	1:O:612:GLN:N	2.49	0.45
1:P:228[B]:HIS:O	1:P:243:THR:OG1	2.27	0.45
1:P:364:PHE:CE2	1:P:366:ALA:HB3	2.51	0.45
1:Q:287:HIS:CE1	1:Q:363:PRO:HG3	2.51	0.45
1:S:340:GLN:HG2	1:S:401:MET:HG2	1.98	0.45
1:S:556:MET:HB3	1:S:723:PRO:HD3	1.98	0.45
1:T:340:GLN:HG2	1:T:401:MET:HG2	1.98	0.45
1:T:364:PHE:CE2	1:T:366:ALA:HB3	2.51	0.45
1:W:287:HIS:CE1	1:W:363:PRO:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:446:ARG:NH2	1:a:450:ALA:HA	2.31	0.45
1:b:643:GLN:HB3	1:b:645:MET:HE2	1.99	0.45
1:c:446:ARG:NH2	1:c:450:ALA:HA	2.31	0.45
1:g:612:GLN:OE1	1:g:612:GLN:N	2.49	0.45
1:h:353:LEU:HA	1:h:353:LEU:HD13	1.66	0.45
1:i:612:GLN:OE1	1:i:612:GLN:N	2.49	0.45
1:i:643:GLN:HB3	1:i:645:MET:HE2	1.99	0.45
1:k:643:GLN:HB3	1:k:645:MET:HE2	1.99	0.45
1:l:556:MET:HB3	1:l:723:PRO:HD3	1.98	0.45
1:l:643:GLN:HB3	1:l:645:MET:HE2	1.99	0.45
1:o:296:GLN:NE2	1:o:698:TYR:O	2.49	0.45
1:p:353:LEU:HA	1:p:353:LEU:HD13	1.66	0.45
1:u:340:GLN:HG2	1:u:401:MET:HG2	1.98	0.45
1:w:364:PHE:CE2	1:w:366:ALA:HB3	2.51	0.45
1:w:612:GLN:OE1	1:w:612:GLN:N	2.49	0.45
1:x:446:ARG:NH2	1:x:450:ALA:HA	2.31	0.45
1:x:556:MET:HB3	1:x:723:PRO:HD3	1.98	0.45
1:y:340:GLN:HG2	1:y:401:MET:HG2	1.98	0.45
1:y:446:ARG:NH2	1:y:450:ALA:HA	2.31	0.45
1:z:556:MET:HB3	1:z:723:PRO:HD3	1.98	0.45
1:2:317:ILE:HD13	1:2:339:VAL:HG11	1.97	0.45
1:6:562:GLU:HA	1:7:388:ARG:HH12	1.82	0.45
1:8:296:GLN:NE2	1:8:698:TYR:O	2.49	0.45
1:A:296:GLN:NE2	1:A:698:TYR:O	2.49	0.45
1:B:338:THR:HG21	1:B:401:MET:HB3	1.97	0.45
1:D:317:ILE:HD13	1:D:339:VAL:HG11	1.97	0.45
1:E:296:GLN:NE2	1:E:698:TYR:O	2.49	0.45
1:E:364:PHE:CE2	1:E:366:ALA:HB3	2.51	0.45
1:F:317:ILE:HD13	1:F:339:VAL:HG11	1.97	0.45
1:H:317:ILE:HD13	1:H:339:VAL:HG11	1.97	0.45
1:H:446:ARG:NH2	1:H:450:ALA:HA	2.31	0.45
1:M:364:PHE:CE2	1:M:366:ALA:HB3	2.51	0.45
1:N:296:GLN:NE2	1:N:698:TYR:O	2.49	0.45
1:N:612:GLN:OE1	1:N:612:GLN:N	2.49	0.45
1:N:643:GLN:HB3	1:N:645:MET:HE2	1.99	0.45
1:O:487:SER:O	1:O:493:ASN:ND2	2.41	0.45
1:Q:340:GLN:HG2	1:Q:401:MET:HG2	1.98	0.45
1:V:446:ARG:NH2	1:V:450:ALA:HA	2.31	0.45
1:b:296:GLN:NE2	1:b:698:TYR:O	2.49	0.45
1:h:364:PHE:CE2	1:h:366:ALA:HB3	2.51	0.45
1:j:364:PHE:CE2	1:j:366:ALA:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:317:ILE:HD13	1:k:339:VAL:HG11	1.98	0.45
1:k:353:LEU:CD2	1:k:643:GLN:HG2	2.46	0.45
1:l:487:SER:O	1:l:493:ASN:ND2	2.41	0.45
1:l:612:GLN:OE1	1:l:612:GLN:N	2.49	0.45
1:m:317:ILE:HD13	1:m:339:VAL:HG11	1.97	0.45
1:r:340:GLN:HG2	1:r:401:MET:HG2	1.98	0.45
1:r:556:MET:HB3	1:r:723:PRO:HD3	1.98	0.45
1:s:643:GLN:HB3	1:s:645:MET:HE2	1.99	0.45
1:t:287:HIS:CE1	1:t:363:PRO:HG3	2.51	0.45
1:y:317:ILE:HD13	1:y:339:VAL:HG11	1.97	0.45
1:z:612:GLN:OE1	1:z:612:GLN:N	2.49	0.45
1:1:296:GLN:NE2	1:1:698:TYR:O	2.49	0.45
1:1:338:THR:HG21	1:1:401:MET:HB3	1.97	0.45
1:3:338:THR:HG21	1:3:401:MET:HB3	1.97	0.45
1:3:446:ARG:NH2	1:3:450:ALA:HA	2.31	0.45
1:A:364:PHE:CE2	1:A:366:ALA:HB3	2.51	0.45
1:A:470:LEU:HD23	1:G:514:LEU:HD13	1.99	0.45
1:E:578:SER:O	1:Q:482:ARG:HD3	2.17	0.45
1:F:340:GLN:HG2	1:F:401:MET:HG2	1.98	0.45
1:F:446:ARG:NH2	1:F:450:ALA:HA	2.31	0.45
1:F:643:GLN:HB3	1:F:645:MET:HE2	1.99	0.45
1:G:556:MET:HB3	1:G:723:PRO:HD3	1.98	0.45
1:H:340:GLN:HG2	1:H:401:MET:HG2	1.98	0.45
1:I:340:GLN:HG2	1:I:401:MET:HG2	1.98	0.45
1:I:364:PHE:CE2	1:I:366:ALA:HB3	2.51	0.45
1:J:578:SER:O	1:L:482:ARG:HD3	2.17	0.45
1:L:340:GLN:HG2	1:L:401:MET:HG2	1.98	0.45
1:N:317:ILE:HD13	1:N:339:VAL:HG11	1.98	0.45
1:O:530:LYS:HG3	1:O:531:PHE:CD2	2.52	0.45
1:P:577:VAL:O	1:P:590:THR:OG1	2.33	0.45
1:Q:296:GLN:NE2	1:Q:698:TYR:O	2.49	0.45
1:Q:446:ARG:NH2	1:Q:450:ALA:HA	2.31	0.45
1:Q:612:GLN:OE1	1:Q:612:GLN:N	2.49	0.45
1:R:487:SER:O	1:R:493:ASN:ND2	2.41	0.45
1:T:287:HIS:CE1	1:T:363:PRO:HG3	2.51	0.45
1:T:317:ILE:HD13	1:T:339:VAL:HG11	1.97	0.45
1:V:296:GLN:NE2	1:V:698:TYR:O	2.49	0.45
1:V:643:GLN:HB3	1:V:645:MET:HE2	1.99	0.45
1:W:530:LYS:HG3	1:W:531:PHE:CD2	2.52	0.45
1:W:731:ARG:HG2	1:W:732:ASN:N	2.31	0.45
1:X:340:GLN:HG2	1:X:401:MET:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:482:ARG:HD3	1:e:578:SER:O	2.17	0.45
1:Z:643:GLN:HB3	1:Z:645:MET:HE2	1.99	0.45
1:c:578:SER:O	1:o:482:ARG:HD3	2.17	0.45
1:f:643:GLN:HB3	1:f:645:MET:HE2	1.99	0.45
1:i:224:SER:HG	1:i:316:ASN:H	1.65	0.45
1:i:487:SER:O	1:i:493:ASN:ND2	2.41	0.45
1:m:287:HIS:CE1	1:m:363:PRO:HG3	2.51	0.45
1:n:556:MET:HB3	1:n:723:PRO:HD3	1.98	0.45
1:o:530:LYS:HG3	1:o:531:PHE:CD2	2.52	0.45
1:p:228[B]:HIS:O	1:p:243:THR:OG1	2.27	0.45
1:q:296:GLN:NE2	1:q:698:TYR:O	2.49	0.45
1:t:530:LYS:HG3	1:t:531:PHE:CD2	2.52	0.45
1:t:556:MET:HB3	1:t:723:PRO:HD3	1.98	0.45
1:v:296:GLN:NE2	1:v:698:TYR:O	2.49	0.45
1:v:364:PHE:CE2	1:v:366:ALA:HB3	2.51	0.45
1:w:296:GLN:NE2	1:w:698:TYR:O	2.49	0.45
1:x:612:GLN:N	1:x:612:GLN:OE1	2.49	0.45
1:y:643:GLN:HB3	1:y:645:MET:HE2	1.99	0.45
1:z:364:PHE:CE2	1:z:366:ALA:HB3	2.51	0.45
1:z:482:ARG:HD3	1:2:578:SER:O	2.17	0.45
1:4:530:LYS:HG3	1:4:531:PHE:CD2	2.52	0.45
1:5:340:GLN:HG2	1:5:401:MET:HG2	1.98	0.45
1:6:530:LYS:HG3	1:6:531:PHE:CD2	2.52	0.45
1:6:731:ARG:HG2	1:6:732:ASN:N	2.31	0.45
1:8:364:PHE:CE2	1:8:366:ALA:HB3	2.51	0.45
1:8:530:LYS:HG3	1:8:531:PHE:CD2	2.52	0.45
1:C:310:LEU:HB3	1:C:680:ILE:HG12	1.99	0.45
1:F:310:LEU:HB3	1:F:680:ILE:HG12	1.99	0.45
1:G:530:LYS:HG3	1:G:531:PHE:CD2	2.52	0.45
1:I:287:HIS:CE1	1:I:363:PRO:HG3	2.51	0.45
1:J:562:GLU:HA	1:L:388:ARG:HH12	1.82	0.45
1:K:530:LYS:HG3	1:K:531:PHE:CD2	2.52	0.45
1:L:612:GLN:OE1	1:L:612:GLN:N	2.49	0.45
1:N:487:SER:O	1:N:493:ASN:ND2	2.41	0.45
1:O:353:LEU:HA	1:O:353:LEU:HD13	1.66	0.45
1:P:530:LYS:HG3	1:P:531:PHE:CD2	2.52	0.45
1:R:296:GLN:NE2	1:R:698:TYR:O	2.49	0.45
1:R:388:ARG:HH12	1:U:562:GLU:HA	1.82	0.45
1:X:530:LYS:HG3	1:X:531:PHE:CD2	2.52	0.45
1:Z:364:PHE:CE2	1:Z:366:ALA:HB3	2.51	0.45
1:Z:530:LYS:HG3	1:Z:531:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:296:GLN:NE2	1:f:698:TYR:O	2.49	0.45
1:i:317:ILE:HD13	1:i:339:VAL:HG11	1.98	0.45
1:j:530:LYS:HG3	1:j:531:PHE:CD2	2.52	0.45
1:j:577:VAL:O	1:j:590:THR:OG1	2.33	0.45
1:k:310:LEU:HB3	1:k:680:ILE:HG12	1.99	0.45
1:l:530:LYS:HG3	1:l:531:PHE:CD2	2.52	0.45
1:m:364:PHE:CE2	1:m:366:ALA:HB3	2.51	0.45
1:o:340:GLN:HG2	1:o:401:MET:HG2	1.98	0.45
1:p:296:GLN:NE2	1:p:698:TYR:O	2.49	0.45
1:p:643:GLN:HB3	1:p:645:MET:HE2	1.99	0.45
1:q:388:ARG:HH12	1:s:562:GLU:HA	1.82	0.45
1:u:287:HIS:CE1	1:u:363:PRO:HG3	2.51	0.45
1:v:310:LEU:HB3	1:v:680:ILE:HG12	1.99	0.45
1:x:296:GLN:NE2	1:x:698:TYR:O	2.49	0.45
1:z:340:GLN:HG2	1:z:401:MET:HG2	1.98	0.45
1:8:643:GLN:HB3	1:8:645:MET:HE2	1.99	0.45
1:A:310:LEU:HB3	1:A:680:ILE:HG12	1.99	0.44
1:C:287:HIS:CE1	1:C:363:PRO:HG3	2.51	0.44
1:C:364:PHE:CE2	1:C:366:ALA:HB3	2.51	0.44
1:D:310:LEU:HB3	1:D:680:ILE:HG12	2.00	0.44
1:L:364:PHE:CE2	1:L:366:ALA:HB3	2.51	0.44
1:N:562:GLU:HG3	1:P:388:ARG:NH2	2.32	0.44
1:P:556:MET:HB3	1:P:723:PRO:HD3	1.98	0.44
1:R:388:ARG:NH2	1:U:562:GLU:HG3	2.32	0.44
1:R:482:ARG:HD3	1:U:578:SER:O	2.17	0.44
1:S:317:ILE:HD13	1:S:339:VAL:HG11	1.97	0.44
1:T:530:LYS:HG3	1:T:531:PHE:CD2	2.52	0.44
1:T:562:GLU:HA	1:d:388:ARG:HH12	1.82	0.44
1:Z:578:SER:O	1:4:482:ARG:HD3	2.16	0.44
1:d:556:MET:HB3	1:d:723:PRO:HD3	1.98	0.44
1:g:310:LEU:HB3	1:g:680:ILE:HG12	2.00	0.44
1:i:562:GLU:HG3	1:j:388:ARG:NH2	2.32	0.44
1:j:556:MET:HB3	1:j:723:PRO:HD3	1.98	0.44
1:m:530:LYS:HG3	1:m:531:PHE:CD2	2.52	0.44
1:p:446:ARG:NH2	1:p:450:ALA:HA	2.31	0.44
1:q:388:ARG:NH2	1:s:562:GLU:HG3	2.32	0.44
1:q:482:ARG:HD3	1:s:578:SER:O	2.17	0.44
1:q:578:SER:O	1:r:482:ARG:HD3	2.17	0.44
1:v:556:MET:HB3	1:v:723:PRO:HD3	1.98	0.44
1:x:643:GLN:HB3	1:x:645:MET:HE2	1.99	0.44
1:y:310:LEU:HB3	1:y:680:ILE:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:530:LYS:HG3	1:y:531:PHE:CD2	2.52	0.44
1:z:353:LEU:HA	1:z:353:LEU:HD13	1.66	0.44
1:z:388:ARG:HH12	1:2:562:GLU:HA	1.82	0.44
1:A:556:MET:HB3	1:A:723:PRO:HD3	1.98	0.44
1:F:530:LYS:HG3	1:F:531:PHE:CD2	2.52	0.44
1:H:388:ARG:HH12	1:Y:562:GLU:HA	1.82	0.44
1:H:612:GLN:OE1	1:H:612:GLN:N	2.49	0.44
1:J:296:GLN:NE2	1:J:698:TYR:O	2.49	0.44
1:K:388:ARG:HH12	1:8:562:GLU:HA	1.82	0.44
1:K:578:SER:O	1:a:482:ARG:HD3	2.17	0.44
1:O:482:ARG:HD3	1:n:578:SER:O	2.18	0.44
1:Q:643:GLN:HB3	1:Q:645:MET:HE2	1.99	0.44
1:R:578:SER:O	1:S:482:ARG:HD3	2.18	0.44
1:S:530:LYS:HG3	1:S:531:PHE:CD2	2.52	0.44
1:S:578:SER:O	1:U:482:ARG:HD3	2.17	0.44
1:T:578:SER:O	1:d:482:ARG:HD3	2.17	0.44
1:V:353:LEU:HA	1:V:353:LEU:HD13	1.66	0.44
1:V:530:LYS:HG3	1:V:531:PHE:CD2	2.52	0.44
1:Y:530:LYS:HG3	1:Y:531:PHE:CD2	2.52	0.44
1:a:310:LEU:HB3	1:a:680:ILE:HG12	2.00	0.44
1:d:578:SER:O	1:l:482:ARG:HD3	2.18	0.44
1:g:364:PHE:CE2	1:g:366:ALA:HB3	2.51	0.44
1:m:310:LEU:HB3	1:m:680:ILE:HG12	1.99	0.44
1:m:562:GLU:HA	1:n:388:ARG:HH12	1.82	0.44
1:p:310:LEU:HB3	1:p:680:ILE:HG12	1.99	0.44
1:r:317:ILE:HD13	1:r:339:VAL:HG11	1.97	0.44
1:r:530:LYS:HG3	1:r:531:PHE:CD2	2.52	0.44
1:w:578:SER:O	1:x:482:ARG:HD3	2.18	0.44
1:2:296:GLN:NE2	1:2:698:TYR:O	2.49	0.44
1:3:310:LEU:HB3	1:3:680:ILE:HG12	2.00	0.44
1:3:482:ARG:HD3	1:4:578:SER:O	2.17	0.44
1:5:310:LEU:HB3	1:5:680:ILE:HG12	1.99	0.44
1:5:388:ARG:HH12	1:7:562:GLU:HA	1.82	0.44
1:5:612:GLN:N	1:5:612:GLN:OE1	2.49	0.44
1:7:530:LYS:HG3	1:7:531:PHE:CD2	2.52	0.44
1:B:310:LEU:HB3	1:B:680:ILE:HG12	1.99	0.44
1:B:562:GLU:HA	1:J:388:ARG:HH12	1.82	0.44
1:D:353:LEU:HA	1:D:353:LEU:HD13	1.66	0.44
1:D:482:ARG:HD3	1:P:578:SER:O	2.17	0.44
1:G:282:ASP:O	1:G:360:CYS:HA	2.18	0.44
1:H:310:LEU:HB3	1:H:680:ILE:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:530:LYS:HG3	1:J:531:PHE:CD2	2.52	0.44
1:K:376:TYR:HH	1:K:392:TYR:H	1.64	0.44
1:O:310:LEU:HB3	1:O:680:ILE:HG12	1.99	0.44
1:R:562:GLU:HA	1:S:388:ARG:HH12	1.82	0.44
1:R:643:GLN:HB3	1:R:645:MET:HE2	1.99	0.44
1:T:310:LEU:HB3	1:T:680:ILE:HG12	1.99	0.44
1:V:228[B]:HIS:O	1:V:243:THR:OG1	2.27	0.44
1:W:353:LEU:HA	1:W:353:LEU:HD13	1.67	0.44
1:W:578:SER:O	1:Y:482:ARG:HD3	2.18	0.44
1:Z:310:LEU:HB3	1:Z:680:ILE:HG12	2.00	0.44
1:Z:388:ARG:NH2	1:3:562:GLU:HG3	2.32	0.44
1:Z:562:GLU:HA	1:4:388:ARG:HH12	1.82	0.44
1:a:643:GLN:HB3	1:a:645:MET:HE2	1.99	0.44
1:d:310:LEU:HB3	1:d:680:ILE:HG12	2.00	0.44
1:d:340:GLN:HG2	1:d:401:MET:HG2	1.98	0.44
1:e:228[B]:HIS:O	1:e:243:THR:OG1	2.27	0.44
1:g:530:LYS:HG3	1:g:531:PHE:CD2	2.52	0.44
1:i:530:LYS:HG3	1:i:531:PHE:CD2	2.52	0.44
1:m:578:SER:O	1:n:482:ARG:HD3	2.17	0.44
1:n:310:LEU:HB3	1:n:680:ILE:HG12	1.99	0.44
1:r:578:SER:O	1:s:482:ARG:HD3	2.17	0.44
1:t:514:LEU:HD13	1:v:470:LEU:HD23	2.00	0.44
1:1:310:LEU:HB3	1:1:680:ILE:HG12	2.00	0.44
1:1:562:GLU:HA	1:2:388:ARG:HH12	1.82	0.44
1:2:530:LYS:HG3	1:2:531:PHE:CD2	2.52	0.44
1:3:643:GLN:HB3	1:3:645:MET:HE2	1.99	0.44
1:4:556:MET:HB3	1:4:723:PRO:HD3	1.98	0.44
1:6:578:SER:O	1:7:482:ARG:HD3	2.18	0.44
1:8:310:LEU:HB3	1:8:680:ILE:HG12	1.99	0.44
1:C:530:LYS:HG3	1:C:531:PHE:CD2	2.52	0.44
1:D:228[B]:HIS:O	1:D:243:THR:OG1	2.27	0.44
1:G:562:GLU:HA	1:I:388:ARG:HH12	1.83	0.44
1:I:530:LYS:HG3	1:I:531:PHE:CD2	2.52	0.44
1:J:604:TRP:HE1	1:J:627:HIS:CE1	2.36	0.44
1:K:556:MET:HB3	1:K:723:PRO:HD3	1.98	0.44
1:M:310:LEU:HB3	1:M:680:ILE:HG12	1.99	0.44
1:N:530:LYS:HG3	1:N:531:PHE:CD2	2.52	0.44
1:T:353:LEU:HA	1:T:353:LEU:HD13	1.66	0.44
1:T:482:ARG:HD3	1:l:578:SER:O	2.18	0.44
1:W:282:ASP:O	1:W:360:CYS:HA	2.18	0.44
1:W:340:GLN:HG2	1:W:401:MET:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:353:LEU:HA	1:X:353:LEU:HD13	1.66	0.44
1:X:643:GLN:HB3	1:X:645:MET:HE2	1.99	0.44
1:Y:643:GLN:HB3	1:Y:645:MET:HE2	1.99	0.44
1:d:530:LYS:HG3	1:d:531:PHE:CD2	2.52	0.44
1:g:287:HIS:CE1	1:g:363:PRO:HG3	2.51	0.44
1:h:310:LEU:HB3	1:h:680:ILE:HG12	1.99	0.44
1:h:530:LYS:HG3	1:h:531:PHE:CD2	2.52	0.44
1:j:282:ASP:O	1:j:360:CYS:HA	2.18	0.44
1:j:578:SER:O	1:k:482:ARG:HD3	2.17	0.44
1:k:228[B]:HIS:O	1:k:243:THR:OG1	2.27	0.44
1:k:353:LEU:HA	1:k:353:LEU:HD13	1.66	0.44
1:l:310:LEU:HB3	1:l:680:ILE:HG12	2.00	0.44
1:p:530:LYS:HG3	1:p:531:PHE:CD2	2.52	0.44
1:q:487:SER:O	1:q:493:ASN:ND2	2.41	0.44
1:q:562:GLU:HA	1:r:388:ARG:HH12	1.82	0.44
1:s:604:TRP:HE1	1:s:627:HIS:CE1	2.36	0.44
1:t:282:ASP:O	1:t:360:CYS:HA	2.18	0.44
1:t:562:GLU:HA	1:u:388:ARG:HH12	1.83	0.44
1:x:604:TRP:HE1	1:x:627:HIS:CE1	2.36	0.44
1:z:578:SER:O	1:1:482:ARG:HD3	2.17	0.44
1:1:228[A]:HIS:O	1:1:243:THR:OG1	2.25	0.44
1:6:282:ASP:O	1:6:360:CYS:HA	2.18	0.44
1:6:353:LEU:HA	1:6:353:LEU:HD13	1.67	0.44
1:7:643:GLN:HB3	1:7:645:MET:HE2	1.99	0.44
1:A:604:TRP:HE1	1:A:627:HIS:CE1	2.36	0.44
1:B:482:ARG:HD3	1:L:578:SER:O	2.17	0.44
1:G:487:SER:O	1:G:493:ASN:ND2	2.41	0.44
1:L:530:LYS:HG3	1:L:531:PHE:CD2	2.52	0.44
1:M:530:LYS:HG3	1:M:531:PHE:CD2	2.52	0.44
1:N:562:GLU:HA	1:P:388:ARG:HH12	1.82	0.44
1:P:282:ASP:O	1:P:360:CYS:HA	2.18	0.44
1:Q:604:TRP:HE1	1:Q:627:HIS:CE1	2.36	0.44
1:S:577:VAL:O	1:S:590:THR:OG1	2.33	0.44
1:U:604:TRP:HE1	1:U:627:HIS:CE1	2.36	0.44
1:V:310:LEU:HB3	1:V:680:ILE:HG12	2.00	0.44
1:V:388:ARG:HH12	1:X:562:GLU:HA	1.83	0.44
1:W:296:GLN:NE2	1:X:697:GLN:HG2	2.33	0.44
1:W:562:GLU:HG3	1:Y:388:ARG:NH2	2.32	0.44
1:Z:282:ASP:O	1:Z:360:CYS:HA	2.18	0.44
1:c:530:LYS:HG3	1:c:531:PHE:CD2	2.52	0.44
1:h:296:GLN:NE2	1:h:698:TYR:O	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:340:GLN:HG2	1:n:401:MET:HG2	1.98	0.44
1:o:562:GLU:HA	1:p:388:ARG:HH12	1.83	0.44
1:o:604:TRP:HE1	1:o:627:HIS:CE1	2.36	0.44
1:o:643:GLN:HB3	1:o:645:MET:HE2	1.99	0.44
1:o:697:GLN:HG2	1:6:296:GLN:NE2	2.33	0.44
1:q:643:GLN:HB3	1:q:645:MET:HE2	1.99	0.44
1:t:487:SER:O	1:t:493:ASN:ND2	2.41	0.44
1:u:439:GLN:HA	1:v:357:HIS:HA	2.00	0.44
1:u:530:LYS:HG3	1:u:531:PHE:CD2	2.52	0.44
1:v:530:LYS:HG3	1:v:531:PHE:CD2	2.52	0.44
1:v:604:TRP:HE1	1:v:627:HIS:CE1	2.36	0.44
1:y:282:ASP:O	1:y:360:CYS:HA	2.18	0.44
1:z:530:LYS:HG3	1:z:531:PHE:CD2	2.52	0.44
1:2:604:TRP:HE1	1:2:627:HIS:CE1	2.36	0.44
1:8:282:ASP:O	1:8:360:CYS:HA	2.18	0.44
1:A:530:LYS:HG3	1:A:531:PHE:CD2	2.52	0.44
1:B:228[A]:HIS:O	1:B:243:THR:OG1	2.25	0.44
1:C:282:ASP:O	1:C:360:CYS:HA	2.18	0.44
1:C:296:GLN:NE2	1:C:698:TYR:O	2.49	0.44
1:D:388:ARG:HH12	1:P:562:GLU:HA	1.82	0.44
1:D:562:GLU:HA	1:N:388:ARG:HH12	1.82	0.44
1:D:697:GLN:HG2	1:M:296:GLN:NE2	2.33	0.44
1:E:604:TRP:HE1	1:E:627:HIS:CE1	2.36	0.44
1:F:282:ASP:O	1:F:360:CYS:HA	2.18	0.44
1:G:296:GLN:NE2	1:H:697:GLN:HG2	2.33	0.44
1:H:562:GLU:HA	1:W:388:ARG:HH12	1.82	0.44
1:L:310:LEU:HB3	1:L:680:ILE:HG12	1.99	0.44
1:M:296:GLN:NE2	1:M:698:TYR:O	2.49	0.44
1:Q:282:ASP:O	1:Q:360:CYS:HA	2.18	0.44
1:R:530:LYS:HG3	1:R:531:PHE:CD2	2.52	0.44
1:a:562:GLU:HG3	1:8:388:ARG:NH2	2.33	0.44
1:a:604:TRP:HE1	1:a:627:HIS:CE1	2.36	0.44
1:c:310:LEU:HB3	1:c:680:ILE:HG12	1.99	0.44
1:g:282:ASP:O	1:g:360:CYS:HA	2.18	0.44
1:h:296:GLN:NE2	1:k:697:GLN:HG2	2.33	0.44
1:m:604:TRP:HE1	1:m:627:HIS:CE1	2.36	0.44
1:n:530:LYS:HG3	1:n:531:PHE:CD2	2.52	0.44
1:n:604:TRP:HE1	1:n:627:HIS:CE1	2.36	0.44
1:o:487:SER:O	1:o:493:ASN:ND2	2.41	0.44
1:w:282:ASP:O	1:w:360:CYS:HA	2.18	0.44
1:w:530:LYS:HG3	1:w:531:PHE:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:282:ASP:O	1:x:360:CYS:HA	2.18	0.44
1:x:530:LYS:HG3	1:x:531:PHE:CD2	2.52	0.44
1:5:388:ARG:NH2	1:7:562:GLU:HG3	2.32	0.44
1:5:562:GLU:HA	1:6:388:ARG:HH12	1.82	0.44
1:6:340:GLN:HG2	1:6:401:MET:HG2	1.98	0.44
1:7:697:GLN:HG2	1:8:296:GLN:NE2	2.33	0.44
1:B:296:GLN:NE2	1:I:697:GLN:HG2	2.33	0.44
1:E:282:ASP:O	1:E:360:CYS:HA	2.18	0.44
1:F:388:ARG:NH2	1:Q:562:GLU:HG3	2.33	0.44
1:G:643:GLN:HB3	1:G:645:MET:HE2	1.99	0.44
1:H:643:GLN:HB3	1:H:645:MET:HE2	1.99	0.44
1:L:353:LEU:HD13	1:L:353:LEU:HA	1.66	0.44
1:N:578:SER:O	1:P:482:ARG:HD3	2.18	0.44
1:O:578:SER:O	1:m:482:ARG:HD3	2.18	0.44
1:P:310:LEU:HB3	1:P:680:ILE:HG12	1.99	0.44
1:Q:530:LYS:HG3	1:Q:531:PHE:CD2	2.52	0.44
1:T:604:TRP:HE1	1:T:627:HIS:CE1	2.36	0.44
1:X:604:TRP:HE1	1:X:627:HIS:CE1	2.36	0.44
1:Y:604:TRP:HE1	1:Y:627:HIS:CE1	2.36	0.44
1:a:530:LYS:HG3	1:a:531:PHE:CD2	2.52	0.44
1:b:310:LEU:HB3	1:b:680:ILE:HG12	1.99	0.44
1:d:604:TRP:HE1	1:d:627:HIS:CE1	2.36	0.44
1:e:530:LYS:HG3	1:e:531:PHE:CD2	2.52	0.44
1:g:296:GLN:NE2	1:g:698:TYR:O	2.49	0.44
1:i:388:ARG:HH12	1:k:562:GLU:HA	1.82	0.44
1:i:562:GLU:HA	1:j:388:ARG:HH12	1.82	0.44
1:j:310:LEU:HB3	1:j:680:ILE:HG12	2.00	0.44
1:l:353:LEU:HA	1:l:353:LEU:HD13	1.66	0.44
1:q:530:LYS:HG3	1:q:531:PHE:CD2	2.52	0.44
1:t:643:GLN:HB3	1:t:645:MET:HE2	1.99	0.44
1:u:697:GLN:HG2	1:1:296:GLN:NE2	2.33	0.44
1:w:388:ARG:HH12	1:y:562:GLU:HA	1.83	0.44
1:w:604:TRP:HE1	1:w:627:HIS:CE1	2.36	0.44
1:x:562:GLU:HG3	1:y:388:ARG:NH2	2.33	0.44
1:z:310:LEU:HB3	1:z:680:ILE:HG12	1.99	0.44
1:1:562:GLU:HG3	1:2:388:ARG:NH2	2.33	0.44
1:3:388:ARG:NH2	1:4:562:GLU:HG3	2.33	0.44
1:3:530:LYS:HG3	1:3:531:PHE:CD2	2.52	0.44
1:5:578:SER:O	1:6:482:ARG:HD3	2.17	0.44
1:7:310:LEU:HB3	1:7:680:ILE:HG12	2.00	0.44
1:B:562:GLU:HG3	1:J:388:ARG:NH2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:388:ARG:NH2	1:M:562:GLU:HG3	2.33	0.44
1:D:282:ASP:O	1:D:360:CYS:HA	2.18	0.44
1:D:296:GLN:NE2	1:D:698:TYR:O	2.49	0.44
1:E:388:ARG:HH12	1:F:562:GLU:HA	1.83	0.44
1:E:530:LYS:HG3	1:E:531:PHE:CD2	2.52	0.44
1:G:697:GLN:HG2	1:H:296:GLN:NE2	2.33	0.44
1:H:388:ARG:NH2	1:Y:562:GLU:HG3	2.32	0.44
1:K:562:GLU:HG3	1:a:388:ARG:NH2	2.33	0.44
1:L:282:ASP:O	1:L:360:CYS:HA	2.18	0.44
1:N:282:ASP:O	1:N:360:CYS:HA	2.18	0.44
1:N:310:LEU:HB3	1:N:680:ILE:HG12	1.99	0.44
1:R:604:TRP:HE1	1:R:627:HIS:CE1	2.36	0.44
1:S:296:GLN:NE2	1:T:697:GLN:HG2	2.33	0.44
1:T:643:GLN:HB3	1:T:645:MET:HE2	1.99	0.44
1:U:310:LEU:HB3	1:U:680:ILE:HG12	1.99	0.44
1:Y:296:GLN:NE2	1:Z:697:GLN:HG2	2.33	0.44
1:Y:310:LEU:HB3	1:Y:680:ILE:HG12	2.00	0.44
1:Y:697:GLN:HG2	1:Z:296:GLN:NE2	2.33	0.44
1:a:470:LEU:HD23	1:8:514:LEU:HD13	2.00	0.44
1:b:530:LYS:HG3	1:b:531:PHE:CD2	2.52	0.44
1:c:228[B]:HIS:O	1:c:243:THR:OG1	2.27	0.44
1:e:310:LEU:HB3	1:e:680:ILE:HG12	2.00	0.44
1:f:310:LEU:HB3	1:f:680:ILE:HG12	1.99	0.44
1:f:353:LEU:HA	1:f:353:LEU:HD13	1.66	0.44
1:f:439:GLN:HA	1:h:357:HIS:HA	2.00	0.44
1:h:282:ASP:O	1:h:360:CYS:HA	2.18	0.44
1:i:310:LEU:HB3	1:i:680:ILE:HG12	2.00	0.44
1:j:643:GLN:HB3	1:j:645:MET:HE2	1.99	0.44
1:j:697:GLN:HG2	1:w:296:GLN:NE2	2.33	0.44
1:m:643:GLN:HB3	1:m:645:MET:HE2	1.99	0.44
1:q:604:TRP:HE1	1:q:627:HIS:CE1	2.36	0.44
1:u:562:GLU:HA	1:v:388:ARG:HH12	1.83	0.44
1:z:282:ASP:O	1:z:360:CYS:HA	2.18	0.44
1:3:388:ARG:HH12	1:4:562:GLU:HA	1.82	0.44
1:3:604:TRP:HE1	1:3:627:HIS:CE1	2.36	0.44
1:5:643:GLN:HB3	1:5:645:MET:HE2	1.99	0.44
1:6:562:GLU:HG3	1:7:388:ARG:NH2	2.32	0.44
1:B:388:ARG:NH2	1:L:562:GLU:HG3	2.32	0.44
1:C:562:GLU:HG3	1:b:388:ARG:NH2	2.33	0.44
1:E:296:GLN:NE2	1:P:697:GLN:HG2	2.33	0.44
1:E:697:GLN:HG2	1:P:296:GLN:NE2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:514:LEU:HD13	1:Q:470:LEU:HD23	2.00	0.44
1:H:577:VAL:O	1:H:590:THR:OG1	2.33	0.44
1:H:578:SER:O	1:W:482:ARG:HD3	2.18	0.44
1:M:282:ASP:O	1:M:360:CYS:HA	2.18	0.44
1:M:357:HIS:HA	1:b:439:GLN:HA	2.00	0.44
1:P:643:GLN:HB3	1:P:645:MET:HE2	1.99	0.44
1:T:388:ARG:HH12	1:l:562:GLU:HA	1.82	0.44
1:V:282:ASP:O	1:V:360:CYS:HA	2.18	0.44
1:W:310:LEU:HB3	1:W:680:ILE:HG12	1.99	0.44
1:c:388:ARG:NH2	1:p:562:GLU:HG3	2.33	0.44
1:f:530:LYS:HG3	1:f:531:PHE:CD2	2.52	0.44
1:g:388:ARG:NH2	1:h:562:GLU:HG3	2.33	0.44
1:i:578:SER:O	1:j:482:ARG:HD3	2.18	0.44
1:j:562:GLU:HA	1:k:388:ARG:HH12	1.82	0.44
1:k:296:GLN:NE2	1:k:698:TYR:O	2.49	0.44
1:k:530:LYS:HG3	1:k:531:PHE:CD2	2.52	0.44
1:l:228[B]:HIS:O	1:l:243:THR:OG1	2.27	0.44
1:m:697:GLN:HG2	1:r:296:GLN:NE2	2.33	0.44
1:p:282:ASP:O	1:p:360:CYS:HA	2.18	0.44
1:t:296:GLN:NE2	1:5:697:GLN:HG2	2.33	0.44
1:t:388:ARG:HH12	1:v:562:GLU:HA	1.83	0.44
1:z:562:GLU:HG3	1:1:388:ARG:NH2	2.32	0.44
1:5:482:ARG:HD3	1:7:578:SER:O	2.18	0.44
1:5:577:VAL:O	1:5:590:THR:OG1	2.33	0.44
1:5:604:TRP:HE1	1:5:627:HIS:CE1	2.36	0.44
1:6:310:LEU:HB3	1:6:680:ILE:HG12	1.99	0.44
1:7:296:GLN:NE2	1:8:697:GLN:HG2	2.33	0.44
1:7:604:TRP:HE1	1:7:627:HIS:CE1	2.36	0.44
1:G:562:GLU:HG3	1:I:388:ARG:NH2	2.33	0.43
1:H:604:TRP:HE1	1:H:627:HIS:CE1	2.36	0.43
1:J:697:GLN:HG2	1:K:296:GLN:NE2	2.33	0.43
1:K:282:ASP:O	1:K:360:CYS:HA	2.18	0.43
1:K:562:GLU:HA	1:a:388:ARG:HH12	1.82	0.43
1:Q:310:LEU:HB3	1:Q:680:ILE:HG12	2.00	0.43
1:Q:353:LEU:HA	1:Q:353:LEU:HD13	1.66	0.43
1:T:282:ASP:O	1:T:360:CYS:HA	2.18	0.43
1:U:697:GLN:HG2	1:V:296:GLN:NE2	2.33	0.43
1:X:487:SER:O	1:X:493:ASN:ND2	2.41	0.43
1:a:282:ASP:O	1:a:360:CYS:HA	2.18	0.43
1:a:562:GLU:HA	1:8:388:ARG:HH12	1.82	0.43
1:d:643:GLN:HB3	1:d:645:MET:HE2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:282:ASP:O	1:e:360:CYS:HA	2.18	0.43
1:f:388:ARG:NH2	1:g:562:GLU:HG3	2.33	0.43
1:j:296:GLN:NE2	1:w:697:GLN:HG2	2.33	0.43
1:k:282:ASP:O	1:k:360:CYS:HA	2.18	0.43
1:m:282:ASP:O	1:m:360:CYS:HA	2.18	0.43
1:s:310:LEU:HB3	1:s:680:ILE:HG12	1.99	0.43
1:x:310:LEU:HB3	1:x:680:ILE:HG12	2.00	0.43
1:x:470:LEU:HD23	1:y:514:LEU:HD13	2.00	0.43
1:2:697:GLN:HG2	1:4:296:GLN:NE2	2.33	0.43
1:8:604:TRP:HE1	1:8:627:HIS:CE1	2.36	0.43
1:A:439:GLN:HA	1:G:357:HIS:HA	2.00	0.43
1:A:567:ASN:OD1	1:A:604:TRP:HB2	2.19	0.43
1:B:388:ARG:HH12	1:L:562:GLU:HA	1.82	0.43
1:C:697:GLN:HG2	1:L:296:GLN:NE2	2.33	0.43
1:D:530:LYS:HG3	1:D:531:PHE:CD2	2.52	0.43
1:E:470:LEU:HD23	1:Q:514:LEU:HD13	2.00	0.43
1:G:578:SER:O	1:I:482:ARG:HD3	2.18	0.43
1:G:604:TRP:HE1	1:G:627:HIS:CE1	2.36	0.43
1:H:435:PRO:HB3	1:W:377:LEU:HD21	2.00	0.43
1:H:482:ARG:HD3	1:Y:578:SER:O	2.18	0.43
1:J:296:GLN:NE2	1:K:697:GLN:HG2	2.33	0.43
1:J:310:LEU:HB3	1:J:680:ILE:HG12	1.99	0.43
1:O:567:ASN:OD1	1:O:604:TRP:HB2	2.18	0.43
1:P:604:TRP:HE1	1:P:627:HIS:CE1	2.36	0.43
1:Q:296:GLN:NE2	1:R:697:GLN:HG2	2.33	0.43
1:R:228[B]:HIS:O	1:R:243:THR:OG1	2.27	0.43
1:S:282:ASP:O	1:S:360:CYS:HA	2.18	0.43
1:S:604:TRP:HE1	1:S:627:HIS:CE1	2.36	0.43
1:U:296:GLN:NE2	1:V:697:GLN:HG2	2.33	0.43
1:V:388:ARG:NH2	1:X:562:GLU:HG3	2.33	0.43
1:b:296:GLN:NE2	1:c:697:GLN:HG2	2.33	0.43
1:b:604:TRP:HE1	1:b:627:HIS:CE1	2.36	0.43
1:c:282:ASP:O	1:c:360:CYS:HA	2.18	0.43
1:c:567:ASN:OD1	1:c:604:TRP:HB2	2.18	0.43
1:d:296:GLN:NE2	1:d:698:TYR:O	2.49	0.43
1:d:562:GLU:HG3	1:l:388:ARG:NH2	2.32	0.43
1:e:697:GLN:HG2	1:f:296:GLN:NE2	2.33	0.43
1:g:643:GLN:HB3	1:g:645:MET:HE2	1.99	0.43
1:g:697:GLN:HG2	1:z:296:GLN:NE2	2.33	0.43
1:i:282:ASP:O	1:i:360:CYS:HA	2.18	0.43
1:m:353:LEU:HA	1:m:353:LEU:HD13	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:562:GLU:HG3	1:p:388:ARG:NH2	2.33	0.43
1:q:697:GLN:HG2	1:x:296:GLN:NE2	2.33	0.43
1:r:604:TRP:HE1	1:r:627:HIS:CE1	2.36	0.43
1:s:530:LYS:HG3	1:s:531:PHE:CD2	2.52	0.43
1:t:562:GLU:HG3	1:u:388:ARG:NH2	2.33	0.43
1:t:578:SER:O	1:u:482:ARG:HD3	2.18	0.43
1:t:697:GLN:HG2	1:5:296:GLN:NE2	2.33	0.43
1:v:567:ASN:OD1	1:v:604:TRP:HB2	2.19	0.43
1:w:470:LEU:HD23	1:x:514:LEU:HD13	2.00	0.43
1:y:353:LEU:HA	1:y:353:LEU:HD13	1.66	0.43
1:1:282:ASP:O	1:1:360:CYS:HA	2.18	0.43
1:2:296:GLN:NE2	1:4:697:GLN:HG2	2.33	0.43
1:4:282:ASP:O	1:4:360:CYS:HA	2.18	0.43
1:A:357:HIS:HA	1:I:439:GLN:HA	2.01	0.43
1:A:388:ARG:HH12	1:I:562:GLU:HA	1.83	0.43
1:B:514:LEU:HD13	1:L:470:LEU:HD23	2.01	0.43
1:B:530:LYS:HG3	1:B:531:PHE:CD2	2.52	0.43
1:C:388:ARG:HH12	1:M:562:GLU:HA	1.83	0.43
1:D:578:SER:O	1:N:482:ARG:HD3	2.17	0.43
1:E:567:ASN:OD1	1:E:604:TRP:HB2	2.18	0.43
1:H:282:ASP:O	1:H:360:CYS:HA	2.18	0.43
1:I:567:ASN:OD1	1:I:604:TRP:HB2	2.19	0.43
1:J:567:ASN:OD1	1:J:604:TRP:HB2	2.19	0.43
1:K:567:ASN:OD1	1:K:604:TRP:HB2	2.18	0.43
1:N:353:LEU:HD13	1:N:353:LEU:HA	1.66	0.43
1:N:604:TRP:HE1	1:N:627:HIS:CE1	2.36	0.43
1:O:282:ASP:O	1:O:360:CYS:HA	2.18	0.43
1:O:388:ARG:NH2	1:n:562:GLU:HG3	2.32	0.43
1:O:562:GLU:HA	1:m:388:ARG:HH12	1.82	0.43
1:S:562:GLU:HA	1:U:388:ARG:HH12	1.83	0.43
1:T:435:PRO:HB3	1:d:377:LEU:HD21	2.01	0.43
1:U:530:LYS:HG3	1:U:531:PHE:CD2	2.52	0.43
1:V:562:GLU:HG3	1:e:388:ARG:NH2	2.33	0.43
1:W:470:LEU:HD23	1:Y:514:LEU:HD13	2.01	0.43
1:W:604:TRP:HE1	1:W:627:HIS:CE1	2.36	0.43
1:Z:388:ARG:HH12	1:3:562:GLU:HA	1.82	0.43
1:Z:604:TRP:HE1	1:Z:627:HIS:CE1	2.36	0.43
1:d:562:GLU:HA	1:l:388:ARG:HH12	1.82	0.43
1:e:296:GLN:NE2	1:f:697:GLN:HG2	2.33	0.43
1:f:388:ARG:HH12	1:g:562:GLU:HA	1.82	0.43
1:f:482:ARG:HD3	1:g:578:SER:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:604:TRP:HE1	1:f:627:HIS:CE1	2.36	0.43
1:j:604:TRP:HE1	1:j:627:HIS:CE1	2.36	0.43
1:l:567:ASN:OD1	1:l:604:TRP:HB2	2.18	0.43
1:m:435:PRO:HB3	1:n:377:LEU:HD21	2.01	0.43
1:n:643:GLN:HB3	1:n:645:MET:HE2	1.99	0.43
1:p:296:GLN:NE2	1:s:697:GLN:HG2	2.33	0.43
1:p:697:GLN:HG2	1:s:296:GLN:NE2	2.33	0.43
1:r:562:GLU:HA	1:s:388:ARG:HH12	1.82	0.43
1:t:604:TRP:HE1	1:t:627:HIS:CE1	2.36	0.43
1:u:567:ASN:OD1	1:u:604:TRP:HB2	2.19	0.43
1:w:567:ASN:OD1	1:w:604:TRP:HB2	2.18	0.43
1:z:562:GLU:HA	1:1:388:ARG:HH12	1.82	0.43
1:1:530:LYS:HG3	1:1:531:PHE:CD2	2.52	0.43
1:2:567:ASN:OD1	1:2:604:TRP:HB2	2.19	0.43
1:3:282:ASP:O	1:3:360:CYS:HA	2.18	0.43
1:5:514:LEU:HD13	1:7:470:LEU:HD23	2.01	0.43
1:6:470:LEU:HD23	1:7:514:LEU:HD13	2.01	0.43
1:A:562:GLU:HA	1:G:388:ARG:HH12	1.83	0.43
1:B:282:ASP:O	1:B:360:CYS:HA	2.18	0.43
1:B:578:SER:O	1:J:482:ARG:HD3	2.17	0.43
1:C:562:GLU:HA	1:b:388:ARG:HH12	1.82	0.43
1:C:578:SER:O	1:b:482:ARG:HD3	2.17	0.43
1:D:567:ASN:OD1	1:D:604:TRP:HB2	2.18	0.43
1:F:357:HIS:HA	1:Q:439:GLN:HA	2.00	0.43
1:H:377:LEU:HD21	1:Y:435:PRO:HB3	2.01	0.43
1:H:514:LEU:HD13	1:Y:470:LEU:HD23	2.01	0.43
1:H:530:LYS:HG3	1:H:531:PHE:CD2	2.52	0.43
1:H:562:GLU:HG3	1:W:388:ARG:NH2	2.33	0.43
1:K:388:ARG:NH2	1:8:562:GLU:HG3	2.32	0.43
1:K:470:LEU:HD23	1:a:514:LEU:HD13	2.00	0.43
1:K:514:LEU:HD13	1:8:470:LEU:HD23	2.01	0.43
1:O:562:GLU:HG3	1:m:388:ARG:NH2	2.32	0.43
1:U:567:ASN:OD1	1:U:604:TRP:HB2	2.19	0.43
1:V:562:GLU:HA	1:e:388:ARG:HH12	1.82	0.43
1:Y:353:LEU:HA	1:Y:353:LEU:HD13	1.66	0.43
1:Z:494:ASN:HA	1:3:584:SER:HA	2.01	0.43
1:Z:567:ASN:OD1	1:Z:604:TRP:HB2	2.18	0.43
1:a:435:PRO:HB3	1:8:377:LEU:HD21	2.00	0.43
1:c:388:ARG:HH12	1:p:562:GLU:HA	1.83	0.43
1:e:567:ASN:OD1	1:e:604:TRP:HB2	2.19	0.43
1:i:353:LEU:HD13	1:i:353:LEU:HA	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:482:ARG:HD3	1:k:578:SER:O	2.18	0.43
1:i:604:TRP:HE1	1:i:627:HIS:CE1	2.36	0.43
1:j:470:LEU:HD23	1:k:514:LEU:HD13	2.00	0.43
1:k:567:ASN:OD1	1:k:604:TRP:HB2	2.18	0.43
1:n:296:GLN:NE2	1:n:698:TYR:O	2.49	0.43
1:p:567:ASN:OD1	1:p:604:TRP:HB2	2.18	0.43
1:r:282:ASP:O	1:r:360:CYS:HA	2.18	0.43
1:s:282:ASP:O	1:s:360:CYS:HA	2.18	0.43
1:s:567:ASN:OD1	1:s:604:TRP:HB2	2.19	0.43
1:t:577:VAL:O	1:t:590:THR:OG1	2.33	0.43
1:x:353:LEU:HA	1:x:353:LEU:HD13	1.66	0.43
1:x:439:GLN:HA	1:y:357:HIS:HA	2.00	0.43
1:z:357:HIS:HA	1:2:439:GLN:HA	2.01	0.43
1:z:470:LEU:HD23	1:1:514:LEU:HD13	2.01	0.43
1:4:567:ASN:OD1	1:4:604:TRP:HB2	2.18	0.43
1:5:377:LEU:HD21	1:7:435:PRO:HB3	2.01	0.43
1:5:435:PRO:HB3	1:6:377:LEU:HD21	2.01	0.43
1:6:604:TRP:HE1	1:6:627:HIS:CE1	2.36	0.43
1:8:567:ASN:OD1	1:8:604:TRP:HB2	2.18	0.43
1:B:435:PRO:HB3	1:J:377:LEU:HD21	2.01	0.43
1:C:604:TRP:HE1	1:C:627:HIS:CE1	2.36	0.43
1:C:643:GLN:HB3	1:C:645:MET:HE2	1.99	0.43
1:D:514:LEU:HD13	1:P:470:LEU:HD23	2.00	0.43
1:E:310:LEU:HB3	1:E:680:ILE:HG12	1.99	0.43
1:H:478:GLY:HA3	1:H:604:TRP:HB3	2.01	0.43
1:I:282:ASP:O	1:I:360:CYS:HA	2.18	0.43
1:J:478:GLY:HA3	1:J:604:TRP:HB3	2.01	0.43
1:K:310:LEU:HB3	1:K:680:ILE:HG12	1.99	0.43
1:M:482:ARG:HD3	1:b:578:SER:O	2.17	0.43
1:N:567:ASN:OD1	1:N:604:TRP:HB2	2.18	0.43
1:N:584:SER:HA	1:P:494:ASN:HA	2.01	0.43
1:O:388:ARG:HH12	1:n:562:GLU:HA	1.82	0.43
1:O:577:VAL:O	1:O:590:THR:OG1	2.33	0.43
1:R:584:SER:HA	1:S:494:ASN:HA	2.01	0.43
1:T:388:ARG:NH2	1:l:562:GLU:HG3	2.32	0.43
1:X:282:ASP:O	1:X:360:CYS:HA	2.18	0.43
1:Z:377:LEU:HD21	1:3:435:PRO:HB3	2.01	0.43
1:Z:562:GLU:HG3	1:4:388:ARG:NH2	2.32	0.43
1:a:577:VAL:O	1:a:590:THR:OG1	2.33	0.43
1:a:584:SER:HA	1:8:494:ASN:HA	2.01	0.43
1:b:282:ASP:O	1:b:360:CYS:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:353:LEU:HA	1:b:353:LEU:HD13	1.66	0.43
1:b:567:ASN:OD1	1:b:604:TRP:HB2	2.18	0.43
1:b:697:GLN:HG2	1:c:296:GLN:NE2	2.33	0.43
1:d:282:ASP:O	1:d:360:CYS:HA	2.18	0.43
1:f:282:ASP:O	1:f:360:CYS:HA	2.18	0.43
1:f:470:LEU:HD23	1:h:514:LEU:HD13	2.00	0.43
1:f:562:GLU:HA	1:h:388:ARG:HH12	1.83	0.43
1:i:584:SER:HA	1:j:494:ASN:HA	2.01	0.43
1:j:562:GLU:HG3	1:k:388:ARG:NH2	2.33	0.43
1:l:478:GLY:HA3	1:l:604:TRP:HB3	2.01	0.43
1:l:604:TRP:HE1	1:l:627:HIS:CE1	2.36	0.43
1:n:282:ASP:O	1:n:360:CYS:HA	2.18	0.43
1:o:282:ASP:O	1:o:360:CYS:HA	2.18	0.43
1:o:478:GLY:HA3	1:o:604:TRP:HB3	2.01	0.43
1:q:435:PRO:HB3	1:r:377:LEU:HD21	2.01	0.43
1:q:584:SER:HA	1:r:494:ASN:HA	2.01	0.43
1:t:357:HIS:HA	1:v:439:GLN:HA	2.01	0.43
1:t:435:PRO:HB3	1:u:377:LEU:HD21	2.01	0.43
1:u:282:ASP:O	1:u:360:CYS:HA	2.18	0.43
1:v:282:ASP:O	1:v:360:CYS:HA	2.18	0.43
1:v:296:GLN:NE2	1:y:697:GLN:HG2	2.33	0.43
1:1:478:GLY:HA3	1:1:604:TRP:HB3	2.01	0.43
1:1:578:SER:O	1:2:482:ARG:HD3	2.17	0.43
1:2:310:LEU:HB3	1:2:680:ILE:HG12	1.99	0.43
1:2:478:GLY:HA3	1:2:604:TRP:HB3	2.01	0.43
1:3:514:LEU:HD13	1:4:470:LEU:HD23	2.00	0.43
1:3:577:VAL:O	1:3:590:THR:OG1	2.33	0.43
1:4:310:LEU:HB3	1:4:680:ILE:HG12	1.99	0.43
1:5:282:ASP:O	1:5:360:CYS:HA	2.18	0.43
1:5:357:HIS:HA	1:7:439:GLN:HA	2.01	0.43
1:5:530:LYS:HG3	1:5:531:PHE:CD2	2.52	0.43
1:5:562:GLU:HG3	1:6:388:ARG:NH2	2.32	0.43
1:7:577:VAL:O	1:7:590:THR:OG1	2.33	0.43
1:A:429:LEU:O	1:A:432:LEU:HD13	2.19	0.43
1:B:357:HIS:HA	1:L:439:GLN:HA	2.01	0.43
1:B:478:GLY:HA3	1:B:604:TRP:HB3	2.01	0.43
1:F:296:GLN:NE2	1:F:698:TYR:O	2.49	0.43
1:G:435:PRO:HB3	1:I:377:LEU:HD21	2.01	0.43
1:H:357:HIS:HA	1:Y:439:GLN:HA	2.01	0.43
1:J:439:GLN:HA	1:L:357:HIS:HA	2.01	0.43
1:K:482:ARG:HD3	1:8:578:SER:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:429:LEU:O	1:L:432:LEU:HD13	2.19	0.43
1:L:617:ALA:HB3	1:L:630:PRO:HG3	2.01	0.43
1:M:388:ARG:HH12	1:b:562:GLU:HA	1.83	0.43
1:M:514:LEU:HD13	1:b:470:LEU:HD23	2.01	0.43
1:M:567:ASN:OD1	1:M:604:TRP:HB2	2.18	0.43
1:O:604:TRP:HE1	1:O:627:HIS:CE1	2.36	0.43
1:U:282:ASP:O	1:U:360:CYS:HA	2.18	0.43
1:V:357:HIS:HA	1:X:439:GLN:HA	2.01	0.43
1:V:478:GLY:HA3	1:V:604:TRP:HB3	2.01	0.43
1:V:567:ASN:OD1	1:V:604:TRP:HB2	2.19	0.43
1:X:478:GLY:HA3	1:X:604:TRP:HB3	2.01	0.43
1:Z:470:LEU:HD23	1:4:514:LEU:HD13	2.01	0.43
1:f:567:ASN:OD1	1:f:604:TRP:HB2	2.19	0.43
1:g:604:TRP:HE1	1:g:627:HIS:CE1	2.36	0.43
1:i:439:GLN:HA	1:j:357:HIS:HA	2.01	0.43
1:i:567:ASN:OD1	1:i:604:TRP:HB2	2.19	0.43
1:i:617:ALA:HB3	1:i:630:PRO:HG3	2.01	0.43
1:l:282:ASP:O	1:l:360:CYS:HA	2.18	0.43
1:m:296:GLN:NE2	1:r:697:GLN:HG2	2.33	0.43
1:p:478:GLY:HA3	1:p:604:TRP:HB3	2.01	0.43
1:t:470:LEU:HD23	1:u:514:LEU:HD13	2.01	0.43
1:v:429:LEU:O	1:v:432:LEU:HD13	2.19	0.43
1:w:310:LEU:HB3	1:w:680:ILE:HG12	1.99	0.43
1:x:567:ASN:OD1	1:x:604:TRP:HB2	2.19	0.43
1:z:439:GLN:HA	1:1:357:HIS:HA	2.01	0.43
1:z:617:ALA:HB3	1:z:630:PRO:HG3	2.01	0.43
1:1:435:PRO:HB3	1:2:377:LEU:HD21	2.01	0.43
1:1:604:TRP:HE1	1:1:627:HIS:CE1	2.36	0.43
1:2:643:GLN:HB3	1:2:645:MET:HE2	1.99	0.43
1:5:439:GLN:HA	1:6:357:HIS:HA	2.01	0.43
1:A:282:ASP:O	1:A:360:CYS:HA	2.18	0.43
1:A:603:VAL:HG12	1:G:625[B]:HIS:HD2	1.84	0.43
1:B:604:TRP:HE1	1:B:627:HIS:CE1	2.36	0.43
1:D:296:GLN:NE2	1:M:697:GLN:HG2	2.33	0.43
1:D:388:ARG:NH2	1:P:562:GLU:HG3	2.33	0.43
1:E:357:HIS:HA	1:F:439:GLN:HA	2.01	0.43
1:E:514:LEU:HD13	1:F:470:LEU:HD23	2.00	0.43
1:E:643:GLN:HB3	1:E:645:MET:HE2	1.99	0.43
1:F:567:ASN:OD1	1:F:604:TRP:HB2	2.19	0.43
1:G:617:ALA:HB3	1:G:630:PRO:HG3	2.01	0.43
1:H:228[A]:HIS:O	1:H:243:THR:OG1	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:429:LEU:O	1:H:432:LEU:HD13	2.19	0.43
1:H:439:GLN:HA	1:W:357:HIS:HA	2.01	0.43
1:I:429:LEU:O	1:I:432:LEU:HD13	2.19	0.43
1:J:429:LEU:O	1:J:432:LEU:HD13	2.19	0.43
1:N:296:GLN:NE2	1:O:697:GLN:HG2	2.33	0.43
1:N:439:GLN:HA	1:P:357:HIS:HA	2.01	0.43
1:N:617:ALA:HB3	1:N:630:PRO:HG3	2.01	0.43
1:O:478:GLY:HA3	1:O:604:TRP:HB3	2.01	0.43
1:P:499:PRO:O	1:P:503:ALA:HB2	2.19	0.43
1:Q:567:ASN:OD1	1:Q:604:TRP:HB2	2.18	0.43
1:R:377:LEU:HD21	1:U:435:PRO:HB3	2.01	0.43
1:R:435:PRO:HB3	1:S:377:LEU:HD21	2.01	0.43
1:S:429:LEU:O	1:S:432:LEU:HD13	2.19	0.43
1:S:697:GLN:HG2	1:T:296:GLN:NE2	2.33	0.43
1:V:578:SER:O	1:e:482:ARG:HD3	2.17	0.43
1:X:310:LEU:HB3	1:X:680:ILE:HG12	2.00	0.43
1:X:357:HIS:HA	1:e:439:GLN:HA	2.00	0.43
1:X:429:LEU:O	1:X:432:LEU:HD13	2.19	0.43
1:X:499:PRO:O	1:X:503:ALA:HB2	2.19	0.43
1:Z:439:GLN:HA	1:4:357:HIS:HA	2.00	0.43
1:Z:499:PRO:O	1:Z:503:ALA:HB2	2.19	0.43
1:a:578:SER:O	1:8:482:ARG:HD3	2.17	0.43
1:c:482:ARG:HD3	1:p:578:SER:O	2.17	0.43
1:c:604:TRP:HE1	1:c:627:HIS:CE1	2.36	0.43
1:d:697:GLN:HG2	1:n:296:GLN:NE2	2.33	0.43
1:h:567:ASN:OD1	1:h:604:TRP:HB2	2.19	0.43
1:h:697:GLN:HG2	1:k:296:GLN:NE2	2.33	0.43
1:i:296:GLN:NE2	1:l:697:GLN:HG2	2.33	0.43
1:j:499:PRO:O	1:j:503:ALA:HB2	2.19	0.43
1:o:310:LEU:HB3	1:o:680:ILE:HG12	2.00	0.43
1:o:429:LEU:O	1:o:432:LEU:HD13	2.19	0.43
1:o:439:GLN:HA	1:p:357:HIS:HA	2.01	0.43
1:o:499:PRO:O	1:o:503:ALA:HB2	2.19	0.43
1:r:429:LEU:O	1:r:432:LEU:HD13	2.19	0.43
1:r:562:GLU:HG3	1:s:388:ARG:NH2	2.33	0.43
1:u:296:GLN:NE2	1:1:697:GLN:HG2	2.33	0.43
1:w:357:HIS:HA	1:y:439:GLN:HA	2.01	0.43
1:w:514:LEU:HD13	1:y:470:LEU:HD23	2.00	0.43
1:w:617:ALA:HB3	1:w:630:PRO:HG3	2.01	0.43
1:y:296:GLN:NE2	1:y:698:TYR:O	2.49	0.43
1:y:567:ASN:OD1	1:y:604:TRP:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:388:ARG:NH2	1:2:562:GLU:HG3	2.33	0.43
1:z:429:LEU:O	1:z:432:LEU:HD13	2.19	0.43
1:2:429:LEU:O	1:2:432:LEU:HD13	2.19	0.43
1:3:499:PRO:O	1:3:503:ALA:HB2	2.19	0.43
1:5:429:LEU:O	1:5:432:LEU:HD13	2.19	0.43
1:5:478:GLY:HA3	1:5:604:TRP:HB3	2.01	0.43
1:6:617:ALA:HB3	1:6:630:PRO:HG3	2.01	0.43
1:7:353:LEU:HA	1:7:353:LEU:HD13	1.66	0.43
1:7:478:GLY:HA3	1:7:604:TRP:HB3	2.01	0.43
1:8:499:PRO:O	1:8:503:ALA:HB2	2.19	0.43
1:B:697:GLN:HG2	1:I:296:GLN:NE2	2.33	0.43
1:C:514:LEU:HD13	1:M:470:LEU:HD23	2.00	0.43
1:D:604:TRP:HE1	1:D:627:HIS:CE1	2.36	0.43
1:E:617:ALA:HB3	1:E:630:PRO:HG3	2.01	0.43
1:F:499:PRO:O	1:F:503:ALA:HB2	2.19	0.43
1:G:310:LEU:HB3	1:G:680:ILE:HG12	1.99	0.43
1:G:470:LEU:HD23	1:I:514:LEU:HD13	2.01	0.43
1:G:499:PRO:O	1:G:503:ALA:HB2	2.19	0.43
1:H:499:PRO:O	1:H:503:ALA:HB2	2.19	0.43
1:I:617:ALA:HB3	1:I:630:PRO:HG3	2.01	0.43
1:J:282:ASP:O	1:J:360:CYS:HA	2.18	0.43
1:J:562:GLU:HG3	1:L:388:ARG:NH2	2.33	0.43
1:J:643:GLN:HB3	1:J:645:MET:HE2	1.99	0.43
1:M:604:TRP:HE1	1:M:627:HIS:CE1	2.36	0.43
1:P:478:GLY:HA3	1:P:604:TRP:HB3	2.01	0.43
1:Q:617:ALA:HB3	1:Q:630:PRO:HG3	2.01	0.43
1:R:470:LEU:HD23	1:S:514:LEU:HD13	2.01	0.43
1:R:514:LEU:HD13	1:U:470:LEU:HD23	2.01	0.43
1:R:567:ASN:OD1	1:R:604:TRP:HB2	2.19	0.43
1:T:429:LEU:O	1:T:432:LEU:HD13	2.19	0.43
1:T:499:PRO:O	1:T:503:ALA:HB2	2.19	0.43
1:W:617:ALA:HB3	1:W:630:PRO:HG3	2.01	0.43
1:Z:429:LEU:O	1:Z:432:LEU:HD13	2.19	0.43
1:a:499:PRO:O	1:a:503:ALA:HB2	2.19	0.43
1:c:439:GLN:HA	1:o:357:HIS:HA	2.00	0.43
1:d:429:LEU:O	1:d:432:LEU:HD13	2.19	0.43
1:d:435:PRO:HB3	1:l:377:LEU:HD21	2.01	0.43
1:e:604:TRP:HE1	1:e:627:HIS:CE1	2.36	0.43
1:f:429:LEU:O	1:f:432:LEU:HD13	2.19	0.43
1:f:578:SER:O	1:h:482:ARG:HD3	2.17	0.43
1:g:388:ARG:HH12	1:h:562:GLU:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:604:TRP:HE1	1:k:627:HIS:CE1	2.36	0.43
1:l:577:VAL:O	1:l:590:THR:OG1	2.33	0.43
1:m:429:LEU:O	1:m:432:LEU:HD13	2.19	0.43
1:m:499:PRO:O	1:m:503:ALA:HB2	2.19	0.43
1:n:429:LEU:O	1:n:432:LEU:HD13	2.19	0.43
1:p:499:PRO:O	1:p:503:ALA:HB2	2.19	0.43
1:q:357:HIS:HA	1:s:439:GLN:HA	2.01	0.43
1:q:470:LEU:HD23	1:r:514:LEU:HD13	2.01	0.43
1:r:617:ALA:HB3	1:r:630:PRO:HG3	2.01	0.43
1:t:310:LEU:HB3	1:t:680:ILE:HG12	2.00	0.43
1:t:499:PRO:O	1:t:503:ALA:HB2	2.19	0.43
1:t:617:ALA:HB3	1:t:630:PRO:HG3	2.01	0.43
1:u:429:LEU:O	1:u:432:LEU:HD13	2.19	0.43
1:u:617:ALA:HB3	1:u:630:PRO:HG3	2.01	0.43
1:v:617:ALA:HB3	1:v:630:PRO:HG3	2.01	0.43
1:x:562:GLU:HA	1:y:388:ARG:HH12	1.83	0.43
1:5:228[A]:HIS:O	1:5:243:THR:OG1	2.25	0.43
1:5:499:PRO:O	1:5:503:ALA:HB2	2.19	0.43
1:7:282:ASP:O	1:7:360:CYS:HA	2.18	0.43
1:A:617:ALA:HB3	1:A:630:PRO:HG3	2.01	0.43
1:C:296:GLN:NE2	1:L:697:GLN:HG2	2.33	0.43
1:D:494:ASN:HA	1:P:584:SER:HA	2.01	0.43
1:E:439:GLN:HA	1:Q:357:HIS:HA	2.01	0.43
1:F:388:ARG:HH12	1:Q:562:GLU:HA	1.83	0.43
1:F:478:GLY:HA3	1:F:604:TRP:HB3	2.01	0.43
1:G:439:GLN:HA	1:I:357:HIS:HA	2.01	0.43
1:H:494:ASN:HA	1:Y:584:SER:HA	2.01	0.43
1:L:499:PRO:O	1:L:503:ALA:HB2	2.19	0.43
1:N:499:PRO:O	1:N:503:ALA:HB2	2.19	0.43
1:O:377:LEU:HD21	1:n:435:PRO:HB3	2.01	0.43
1:Q:499:PRO:O	1:Q:503:ALA:HB2	2.19	0.43
1:R:357:HIS:HA	1:U:439:GLN:HA	2.01	0.43
1:S:562:GLU:HG3	1:U:388:ARG:NH2	2.33	0.43
1:S:617:ALA:HB3	1:S:630:PRO:HG3	2.01	0.43
1:T:567:ASN:OD1	1:T:604:TRP:HB2	2.19	0.43
1:V:439:GLN:HA	1:e:357:HIS:HA	2.01	0.43
1:W:697:GLN:HG2	1:X:296:GLN:NE2	2.33	0.43
1:X:617:ALA:HB3	1:X:630:PRO:HG3	2.01	0.43
1:Y:282:ASP:O	1:Y:360:CYS:HA	2.18	0.43
1:Y:478:GLY:HA3	1:Y:604:TRP:HB3	2.01	0.43
1:Z:514:LEU:HD13	1:3:470:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:296:GLN:NE2	1:3:697:GLN:HG2	2.33	0.43
1:b:429:LEU:O	1:b:432:LEU:HD13	2.19	0.43
1:c:357:HIS:HA	1:p:439:GLN:HA	2.01	0.43
1:d:296:GLN:NE2	1:n:697:GLN:HG2	2.33	0.43
1:d:487:SER:O	1:d:493:ASN:ND2	2.41	0.43
1:f:478:GLY:HA3	1:f:604:TRP:HB3	2.01	0.43
1:f:499:PRO:O	1:f:503:ALA:HB2	2.19	0.43
1:f:617:ALA:HB3	1:f:630:PRO:HG3	2.01	0.43
1:g:296:GLN:NE2	1:z:697:GLN:HG2	2.33	0.43
1:g:429:LEU:O	1:g:432:LEU:HD13	2.19	0.43
1:g:514:LEU:HD13	1:h:470:LEU:HD23	2.00	0.43
1:g:561:GLU:HG2	1:g:564:ARG:NE	2.34	0.43
1:i:499:PRO:O	1:i:503:ALA:HB2	2.19	0.43
1:j:584:SER:HA	1:k:494:ASN:HA	2.01	0.43
1:m:584:SER:HA	1:n:494:ASN:HA	2.01	0.43
1:o:296:GLN:NE2	1:6:697:GLN:HG2	2.33	0.43
1:q:377:LEU:HD21	1:s:435:PRO:HB3	2.01	0.43
1:q:514:LEU:HD13	1:s:470:LEU:HD23	2.01	0.43
1:q:567:ASN:OD1	1:q:604:TRP:HB2	2.19	0.43
1:r:310:LEU:HB3	1:r:680:ILE:HG12	1.99	0.43
1:r:470:LEU:HD23	1:s:514:LEU:HD13	2.01	0.43
1:s:429:LEU:O	1:s:432:LEU:HD13	2.19	0.43
1:v:226:ASN:HD22	1:w:401:MET:H	1.67	0.43
1:w:643:GLN:HB3	1:w:645:MET:HE2	1.99	0.43
1:x:499:PRO:O	1:x:503:ALA:HB2	2.19	0.43
1:x:617:ALA:HB3	1:x:630:PRO:HG3	2.01	0.43
1:y:499:PRO:O	1:y:503:ALA:HB2	2.19	0.43
1:z:499:PRO:O	1:z:503:ALA:HB2	2.19	0.43
1:5:494:ASN:HA	1:7:584:SER:HA	2.01	0.43
1:5:584:SER:HA	1:6:494:ASN:HA	2.01	0.43
1:8:429:LEU:O	1:8:432:LEU:HD13	2.19	0.43
1:A:296:GLN:NE2	1:F:697:GLN:HG2	2.34	0.43
1:A:478:GLY:HA3	1:A:604:TRP:HB3	2.01	0.43
1:C:429:LEU:O	1:C:432:LEU:HD13	2.19	0.43
1:C:435:PRO:HB3	1:b:377:LEU:HD21	2.01	0.43
1:C:439:GLN:HA	1:b:357:HIS:HA	2.01	0.43
1:C:561:GLU:HG2	1:C:564:ARG:NE	2.34	0.43
1:E:388:ARG:NH2	1:F:562:GLU:HG3	2.33	0.43
1:F:429:LEU:O	1:F:432:LEU:HD13	2.19	0.43
1:F:604:TRP:HE1	1:F:627:HIS:CE1	2.36	0.43
1:I:604:TRP:HE1	1:I:627:HIS:CE1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:561:GLU:HG2	1:L:564:ARG:NE	2.34	0.43
1:M:499:PRO:O	1:M:503:ALA:HB2	2.19	0.43
1:M:561:GLU:HG2	1:M:564:ARG:NE	2.34	0.43
1:N:470:LEU:HD23	1:P:514:LEU:HD13	2.01	0.43
1:N:697:GLN:HG2	1:O:296:GLN:NE2	2.33	0.43
1:P:561:GLU:HG2	1:P:564:ARG:NE	2.34	0.43
1:R:282:ASP:O	1:R:360:CYS:HA	2.18	0.43
1:R:310:LEU:HB3	1:R:680:ILE:HG12	1.99	0.43
1:T:584:SER:HA	1:d:494:ASN:HA	2.01	0.43
1:U:429:LEU:O	1:U:432:LEU:HD13	2.19	0.43
1:V:499:PRO:O	1:V:503:ALA:HB2	2.19	0.43
1:X:388:ARG:HH12	1:e:562:GLU:HA	1.83	0.43
1:X:561:GLU:HG2	1:X:564:ARG:NE	2.34	0.43
1:b:617:ALA:HB3	1:b:630:PRO:HG3	2.01	0.43
1:c:478:GLY:HA3	1:c:604:TRP:HB3	2.01	0.43
1:c:562:GLU:HG3	1:o:388:ARG:NH2	2.34	0.43
1:d:561:GLU:HG2	1:d:564:ARG:NE	2.34	0.43
1:f:357:HIS:HA	1:g:439:GLN:HA	2.01	0.43
1:h:499:PRO:O	1:h:503:ALA:HB2	2.19	0.43
1:h:604:TRP:HE1	1:h:627:HIS:CE1	2.36	0.43
1:i:470:LEU:HD23	1:j:514:LEU:HD13	2.01	0.43
1:i:697:GLN:HG2	1:l:296:GLN:NE2	2.33	0.43
1:j:435:PRO:HB3	1:k:377:LEU:HD21	2.01	0.43
1:j:561:GLU:HG2	1:j:564:ARG:NE	2.34	0.43
1:l:429:LEU:O	1:l:432:LEU:HD13	2.19	0.43
1:m:567:ASN:OD1	1:m:604:TRP:HB2	2.19	0.43
1:n:561:GLU:HG2	1:n:564:ARG:NE	2.34	0.43
1:o:470:LEU:HD23	1:p:514:LEU:HD13	2.00	0.43
1:o:617:ALA:HB3	1:o:630:PRO:HG3	2.01	0.43
1:q:310:LEU:HB3	1:q:680:ILE:HG12	2.00	0.43
1:v:478:GLY:HA3	1:v:604:TRP:HB3	2.01	0.43
1:w:439:GLN:HA	1:x:357:HIS:HA	2.01	0.43
1:y:478:GLY:HA3	1:y:604:TRP:HB3	2.01	0.43
1:z:561:GLU:HG2	1:z:564:ARG:NE	2.34	0.43
1:2:282:ASP:O	1:2:360:CYS:HA	2.18	0.43
1:6:435:PRO:HB3	1:7:377:LEU:HD21	2.01	0.43
1:B:377:LEU:HD21	1:L:435:PRO:HB3	2.01	0.42
1:B:567:ASN:OD1	1:B:604:TRP:HB2	2.19	0.42
1:D:357:HIS:HA	1:P:439:GLN:HA	2.01	0.42
1:D:377:LEU:HD21	1:P:435:PRO:HB3	2.01	0.42
1:D:617:ALA:HB3	1:D:630:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:377:LEU:HD21	1:F:435:PRO:HB3	2.01	0.42
1:E:584:SER:HA	1:Q:494:ASN:HA	2.02	0.42
1:H:584:SER:HA	1:W:494:ASN:HA	2.01	0.42
1:I:310:LEU:HB3	1:I:680:ILE:HG12	1.99	0.42
1:I:499:PRO:O	1:I:503:ALA:HB2	2.19	0.42
1:K:478:GLY:HA3	1:K:604:TRP:HB3	2.01	0.42
1:K:604:TRP:HE1	1:K:627:HIS:CE1	2.36	0.42
1:O:429:LEU:O	1:O:432:LEU:HD13	2.19	0.42
1:O:584:SER:HA	1:m:494:ASN:HA	2.01	0.42
1:Q:429:LEU:O	1:Q:432:LEU:HD13	2.19	0.42
1:R:499:PRO:O	1:R:503:ALA:HB2	2.19	0.42
1:S:310:LEU:HB3	1:S:680:ILE:HG12	1.99	0.42
1:S:470:LEU:HD23	1:U:514:LEU:HD13	2.01	0.42
1:T:470:LEU:HD23	1:d:514:LEU:HD13	2.00	0.42
1:T:561:GLU:HG2	1:T:564:ARG:NE	2.34	0.42
1:V:514:LEU:HD13	1:X:470:LEU:HD23	2.00	0.42
1:W:435:PRO:HB3	1:Y:377:LEU:HD21	2.01	0.42
1:X:514:LEU:HD13	1:e:470:LEU:HD23	2.00	0.42
1:Y:429:LEU:O	1:Y:432:LEU:HD13	2.19	0.42
1:a:697:GLN:HG2	1:3:296:GLN:NE2	2.33	0.42
1:b:478:GLY:HA3	1:b:604:TRP:HB3	2.01	0.42
1:b:499:PRO:O	1:b:503:ALA:HB2	2.19	0.42
1:c:470:LEU:HD23	1:o:514:LEU:HD13	2.00	0.42
1:c:562:GLU:HA	1:o:388:ARG:HH12	1.83	0.42
1:c:617:ALA:HB3	1:c:630:PRO:HG3	2.01	0.42
1:d:567:ASN:OD1	1:d:604:TRP:HB2	2.19	0.42
1:d:617:ALA:HB3	1:d:630:PRO:HG3	2.01	0.42
1:e:478:GLY:HA3	1:e:604:TRP:HB3	2.01	0.42
1:f:377:LEU:HD21	1:g:435:PRO:HB3	2.01	0.42
1:h:561:GLU:HG2	1:h:564:ARG:NE	2.34	0.42
1:j:478:GLY:HA3	1:j:604:TRP:HB3	2.01	0.42
1:m:470:LEU:HD23	1:n:514:LEU:HD13	2.00	0.42
1:m:562:GLU:HG3	1:n:388:ARG:NH2	2.33	0.42
1:n:567:ASN:OD1	1:n:604:TRP:HB2	2.18	0.42
1:n:617:ALA:HB3	1:n:630:PRO:HG3	2.01	0.42
1:o:561:GLU:HG2	1:o:564:ARG:NE	2.34	0.42
1:p:429:LEU:O	1:p:432:LEU:HD13	2.19	0.42
1:r:561:GLU:HG2	1:r:564:ARG:NE	2.34	0.42
1:s:478:GLY:HA3	1:s:604:TRP:HB3	2.01	0.42
1:t:429:LEU:O	1:t:432:LEU:HD13	2.19	0.42
1:t:439:GLN:HA	1:u:357:HIS:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:478:GLY:HA3	1:t:604:TRP:HB3	2.01	0.42
1:t:625[B]:HIS:HD2	1:v:603:VAL:HG12	1.84	0.42
1:u:310:LEU:HB3	1:u:680:ILE:HG12	1.99	0.42
1:u:604:TRP:HE1	1:u:627:HIS:CE1	2.36	0.42
1:v:697:GLN:HG2	1:y:296:GLN:NE2	2.33	0.42
1:w:388:ARG:NH2	1:y:562:GLU:HG3	2.33	0.42
1:x:429:LEU:O	1:x:432:LEU:HD13	2.19	0.42
1:y:429:LEU:O	1:y:432:LEU:HD13	2.19	0.42
1:1:567:ASN:OD1	1:1:604:TRP:HB2	2.19	0.42
1:4:478:GLY:HA3	1:4:604:TRP:HB3	2.01	0.42
1:5:567:ASN:OD1	1:5:604:TRP:HB2	2.18	0.42
1:A:435:PRO:HB3	1:G:377:LEU:HD21	2.01	0.42
1:D:470:LEU:HD23	1:N:514:LEU:HD13	2.01	0.42
1:F:561:GLU:HG2	1:F:564:ARG:NE	2.34	0.42
1:G:478:GLY:HA3	1:G:604:TRP:HB3	2.01	0.42
1:H:567:ASN:OD1	1:H:604:TRP:HB2	2.18	0.42
1:K:377:LEU:HD21	1:8:435:PRO:HB3	2.01	0.42
1:M:494:ASN:HA	1:b:584:SER:HA	2.01	0.42
1:S:439:GLN:HA	1:U:357:HIS:HA	2.01	0.42
1:S:561:GLU:HG2	1:S:564:ARG:NE	2.34	0.42
1:T:494:ASN:HA	1:l:584:SER:HA	2.01	0.42
1:T:562:GLU:HG3	1:d:388:ARG:NH2	2.33	0.42
1:T:617:ALA:HB3	1:T:630:PRO:HG3	2.01	0.42
1:U:478:GLY:HA3	1:U:604:TRP:HB3	2.01	0.42
1:U:499:PRO:O	1:U:503:ALA:HB2	2.19	0.42
1:U:617:ALA:HB3	1:U:630:PRO:HG3	2.01	0.42
1:W:567:ASN:OD1	1:W:604:TRP:HB2	2.19	0.42
1:X:388:ARG:NH2	1:e:562:GLU:HG3	2.34	0.42
1:Z:478:GLY:HA3	1:Z:604:TRP:HB3	2.01	0.42
1:b:403:ARG:H	1:b:406:ASN:HD22	1.68	0.42
1:e:617:ALA:HB3	1:e:630:PRO:HG3	2.01	0.42
1:i:388:ARG:NH2	1:k:562:GLU:HG3	2.32	0.42
1:i:514:LEU:HD13	1:k:470:LEU:HD23	2.00	0.42
1:j:439:GLN:HA	1:k:357:HIS:HA	2.01	0.42
1:k:617:ALA:HB3	1:k:630:PRO:HG3	2.01	0.42
1:m:561:GLU:HG2	1:m:564:ARG:NE	2.34	0.42
1:q:282:ASP:O	1:q:360:CYS:HA	2.18	0.42
1:q:499:PRO:O	1:q:503:ALA:HB2	2.19	0.42
1:s:499:PRO:O	1:s:503:ALA:HB2	2.19	0.42
1:s:617:ALA:HB3	1:s:630:PRO:HG3	2.01	0.42
1:u:499:PRO:O	1:u:503:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:584:SER:HA	1:x:494:ASN:HA	2.02	0.42
1:y:561:GLU:HG2	1:y:564:ARG:NE	2.34	0.42
1:y:604:TRP:HE1	1:y:627:HIS:CE1	2.36	0.42
1:4:604:TRP:HE1	1:4:627:HIS:CE1	2.36	0.42
1:7:429:LEU:O	1:7:432:LEU:HD13	2.19	0.42
1:A:514:LEU:HD13	1:I:470:LEU:HD23	2.00	0.42
1:B:353:LEU:HD23	1:B:643:GLN:HE21	1.85	0.42
1:C:470:LEU:HD23	1:b:514:LEU:HD13	2.01	0.42
1:C:478:GLY:HA3	1:C:604:TRP:HB3	2.01	0.42
1:C:617:ALA:HB3	1:C:630:PRO:HG3	2.01	0.42
1:E:562:GLU:HG3	1:Q:388:ARG:NH2	2.34	0.42
1:G:429:LEU:O	1:G:432:LEU:HD13	2.19	0.42
1:G:567:ASN:OD1	1:G:604:TRP:HB2	2.18	0.42
1:H:561:GLU:HG2	1:H:564:ARG:NE	2.34	0.42
1:M:226:ASN:HD22	1:N:401:MET:H	1.68	0.42
1:M:353:LEU:HD23	1:M:643:GLN:HE21	1.85	0.42
1:M:403:ARG:H	1:M:406:ASN:HD22	1.68	0.42
1:O:470:LEU:HD23	1:m:514:LEU:HD13	2.01	0.42
1:O:617:ALA:HB3	1:O:630:PRO:HG3	2.01	0.42
1:Q:561:GLU:HG2	1:Q:564:ARG:NE	2.34	0.42
1:Q:697:GLN:HG2	1:R:296:GLN:NE2	2.33	0.42
1:R:603:VAL:HG12	1:S:625[B]:HIS:HD2	1.85	0.42
1:S:567:ASN:OD1	1:S:604:TRP:HB2	2.19	0.42
1:S:584:SER:HA	1:U:494:ASN:HA	2.01	0.42
1:T:514:LEU:HD13	1:l:470:LEU:HD23	2.01	0.42
1:U:403:ARG:H	1:U:406:ASN:HD22	1.68	0.42
1:Y:228[A]:HIS:O	1:Y:243:THR:OG1	2.25	0.42
1:Z:561:GLU:HG2	1:Z:564:ARG:NE	2.34	0.42
1:d:499:PRO:O	1:d:503:ALA:HB2	2.19	0.42
1:f:403:ARG:H	1:f:406:ASN:HD22	1.68	0.42
1:f:514:LEU:HD13	1:g:470:LEU:HD23	2.01	0.42
1:f:561:GLU:HG2	1:f:564:ARG:NE	2.34	0.42
1:f:584:SER:HA	1:h:494:ASN:HA	2.01	0.42
1:g:478:GLY:HA3	1:g:604:TRP:HB3	2.01	0.42
1:h:226:ASN:HD22	1:i:401:MET:H	1.67	0.42
1:h:353:LEU:HD23	1:h:643:GLN:HE21	1.85	0.42
1:h:403:ARG:H	1:h:406:ASN:HD22	1.68	0.42
1:h:429:LEU:O	1:h:432:LEU:HD13	2.19	0.42
1:i:478:GLY:HA3	1:i:604:TRP:HB3	2.01	0.42
1:j:567:ASN:OD1	1:j:604:TRP:HB2	2.18	0.42
1:l:617:ALA:HB3	1:l:630:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:617:ALA:HB3	1:m:630:PRO:HG3	2.01	0.42
1:n:487:SER:O	1:n:493:ASN:ND2	2.41	0.42
1:p:604:TRP:HE1	1:p:627:HIS:CE1	2.36	0.42
1:r:439:GLN:HA	1:s:357:HIS:HA	2.01	0.42
1:r:567:ASN:OD1	1:r:604:TRP:HB2	2.19	0.42
1:t:377:LEU:HD21	1:v:435:PRO:HB3	2.01	0.42
1:u:470:LEU:HD23	1:v:514:LEU:HD13	2.00	0.42
1:u:478:GLY:HA3	1:u:604:TRP:HB3	2.01	0.42
1:w:353:LEU:HD23	1:w:643:GLN:HE21	1.85	0.42
1:w:377:LEU:HD21	1:y:435:PRO:HB3	2.02	0.42
1:w:429:LEU:O	1:w:432:LEU:HD13	2.19	0.42
1:x:561:GLU:HG2	1:x:564:ARG:NE	2.34	0.42
1:z:435:PRO:HB3	1:1:377:LEU:HD21	2.01	0.42
1:z:604:TRP:HE1	1:z:627:HIS:CE1	2.36	0.42
1:1:353:LEU:HD23	1:1:643:GLN:HE21	1.85	0.42
1:3:357:HIS:HA	1:4:439:GLN:HA	2.01	0.42
1:6:439:GLN:HA	1:7:357:HIS:HA	2.01	0.42
1:6:567:ASN:OD1	1:6:604:TRP:HB2	2.18	0.42
1:8:478:GLY:HA3	1:8:604:TRP:HB3	2.01	0.42
1:B:584:SER:HA	1:J:494:ASN:HA	2.01	0.42
1:C:353:LEU:HD23	1:C:643:GLN:HE21	1.84	0.42
1:D:499:PRO:O	1:D:503:ALA:HB2	2.19	0.42
1:D:562:GLU:HG3	1:N:388:ARG:NH2	2.32	0.42
1:E:429:LEU:O	1:E:432:LEU:HD13	2.19	0.42
1:F:228[A]:HIS:O	1:F:243:THR:OG1	2.25	0.42
1:G:353:LEU:HD23	1:G:643:GLN:HE21	1.85	0.42
1:G:584:SER:HA	1:I:494:ASN:HA	2.01	0.42
1:H:285:ARG:NH2	1:H:612:GLN:HB2	2.35	0.42
1:H:403:ARG:H	1:H:406:ASN:HD22	1.68	0.42
1:I:478:GLY:HA3	1:I:604:TRP:HB3	2.01	0.42
1:K:429:LEU:O	1:K:432:LEU:HD13	2.19	0.42
1:L:567:ASN:OD1	1:L:604:TRP:HB2	2.19	0.42
1:L:604:TRP:HE1	1:L:627:HIS:CE1	2.36	0.42
1:M:429:LEU:O	1:M:432:LEU:HD13	2.19	0.42
1:P:567:ASN:OD1	1:P:604:TRP:HB2	2.19	0.42
1:R:494:ASN:HA	1:U:584:SER:HA	2.02	0.42
1:T:439:GLN:HA	1:d:357:HIS:HA	2.01	0.42
1:V:429:LEU:O	1:V:432:LEU:HD13	2.19	0.42
1:W:439:GLN:HA	1:Y:357:HIS:HA	2.01	0.42
1:Z:603:VAL:HG12	1:4:625[B]:HIS:HD2	1.84	0.42
1:a:429:LEU:O	1:a:432:LEU:HD13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:561:GLU:HG2	1:b:564:ARG:NE	2.34	0.42
1:g:353:LEU:HD23	1:g:643:GLN:HE21	1.84	0.42
1:g:357:HIS:HA	1:h:439:GLN:HA	2.01	0.42
1:g:617:ALA:HB3	1:g:630:PRO:HG3	2.01	0.42
1:i:429:LEU:O	1:i:432:LEU:HD13	2.19	0.42
1:m:439:GLN:HA	1:n:357:HIS:HA	2.01	0.42
1:m:478:GLY:HA3	1:m:604:TRP:HB3	2.01	0.42
1:n:403:ARG:H	1:n:406:ASN:HD22	1.68	0.42
1:q:296:GLN:NE2	1:x:697:GLN:HG2	2.33	0.42
1:q:478:GLY:HA3	1:q:604:TRP:HB3	2.01	0.42
1:q:603:VAL:HG12	1:r:625[B]:HIS:HD2	1.85	0.42
1:r:584:SER:HA	1:s:494:ASN:HA	2.02	0.42
1:s:403:ARG:H	1:s:406:ASN:HD22	1.68	0.42
1:t:401:MET:H	1:y:226:ASN:HD22	1.67	0.42
1:t:567:ASN:OD1	1:t:604:TRP:HB2	2.19	0.42
1:1:439:GLN:HA	1:2:357:HIS:HA	2.01	0.42
1:1:584:SER:HA	1:2:494:ASN:HA	2.01	0.42
1:5:285:ARG:NH2	1:5:612:GLN:HB2	2.35	0.42
1:5:561:GLU:HG2	1:5:564:ARG:NE	2.34	0.42
1:8:561:GLU:HG2	1:8:564:ARG:NE	2.34	0.42
1:B:285:ARG:NH2	1:B:612:GLN:HB2	2.35	0.42
1:B:439:GLN:HA	1:J:357:HIS:HA	2.01	0.42
1:C:357:HIS:HA	1:M:439:GLN:HA	2.01	0.42
1:E:353:LEU:HD23	1:E:643:GLN:HE21	1.85	0.42
1:F:226:ASN:HD22	1:G:401:MET:H	1.67	0.42
1:I:353:LEU:HD23	1:I:643:GLN:HE21	1.84	0.42
1:J:561:GLU:HG2	1:J:564:ARG:NE	2.34	0.42
1:K:435:PRO:HB3	1:a:377:LEU:HD21	2.01	0.42
1:K:439:GLN:HA	1:a:357:HIS:HA	2.01	0.42
1:N:429:LEU:O	1:N:432:LEU:HD13	2.19	0.42
1:N:478:GLY:HA3	1:N:604:TRP:HB3	2.01	0.42
1:O:285:ARG:NH2	1:O:612:GLN:HB2	2.35	0.42
1:O:357:HIS:HA	1:n:439:GLN:HA	2.01	0.42
1:O:499:PRO:O	1:O:503:ALA:HB2	2.19	0.42
1:O:514:LEU:HD13	1:n:470:LEU:HD23	2.00	0.42
1:O:561:GLU:HG2	1:O:564:ARG:NE	2.34	0.42
1:P:617:ALA:HB3	1:P:630:PRO:HG3	2.01	0.42
1:T:357:HIS:HA	1:l:439:GLN:HA	2.01	0.42
1:T:478:GLY:HA3	1:T:604:TRP:HB3	2.01	0.42
1:V:604:TRP:HE1	1:V:627:HIS:CE1	2.36	0.42
1:d:403:ARG:H	1:d:406:ASN:HD22	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:470:LEU:HD23	1:l:514:LEU:HD13	2.00	0.42
1:e:429:LEU:O	1:e:432:LEU:HD13	2.19	0.42
1:k:429:LEU:O	1:k:432:LEU:HD13	2.19	0.42
1:l:561:GLU:HG2	1:l:564:ARG:NE	2.34	0.42
1:n:499:PRO:O	1:n:503:ALA:HB2	2.19	0.42
1:o:567:ASN:OD1	1:o:604:TRP:HB2	2.18	0.42
1:q:494:ASN:HA	1:s:584:SER:HA	2.01	0.42
1:r:403:ARG:H	1:r:406:ASN:HD22	1.68	0.42
1:t:584:SER:HA	1:u:494:ASN:HA	2.01	0.42
1:w:562:GLU:HG3	1:x:388:ARG:NH2	2.34	0.42
1:y:228[A]:HIS:O	1:y:243:THR:OG1	2.25	0.42
1:z:567:ASN:OD1	1:z:604:TRP:HB2	2.19	0.42
1:1:285:ARG:NH2	1:1:612:GLN:HB2	2.35	0.42
1:3:377:LEU:HD21	1:4:435:PRO:HB3	2.01	0.42
1:3:429:LEU:O	1:3:432:LEU:HD13	2.19	0.42
1:4:429:LEU:O	1:4:432:LEU:HD13	2.19	0.42
1:4:561:GLU:HG2	1:4:564:ARG:NE	2.34	0.42
1:5:403:ARG:H	1:5:406:ASN:HD22	1.68	0.42
1:A:499:PRO:O	1:A:503:ALA:HB2	2.19	0.42
1:A:697:GLN:HG2	1:F:296:GLN:NE2	2.34	0.42
1:C:577:VAL:O	1:C:590:THR:OG1	2.33	0.42
1:D:603:VAL:HG12	1:N:625[B]:HIS:HD2	1.85	0.42
1:J:403:ARG:H	1:J:406:ASN:HD22	1.68	0.42
1:J:499:PRO:O	1:J:503:ALA:HB2	2.19	0.42
1:K:561:GLU:HG2	1:K:564:ARG:NE	2.34	0.42
1:O:439:GLN:HA	1:m:357:HIS:HA	2.01	0.42
1:P:285:ARG:NH2	1:P:612:GLN:HB2	2.35	0.42
1:R:429:LEU:O	1:R:432:LEU:HD13	2.19	0.42
1:R:478:GLY:HA3	1:R:604:TRP:HB3	2.01	0.42
1:S:285:ARG:NH2	1:S:612:GLN:HB2	2.35	0.42
1:S:403:ARG:H	1:S:406:ASN:HD22	1.68	0.42
1:V:403:ARG:H	1:V:406:ASN:HD22	1.68	0.42
1:X:567:ASN:OD1	1:X:604:TRP:HB2	2.18	0.42
1:Y:403:ARG:H	1:Y:406:ASN:HD22	1.68	0.42
1:Z:285:ARG:NH2	1:Z:612:GLN:HB2	2.35	0.42
1:Z:357:HIS:HA	1:3:439:GLN:HA	2.00	0.42
1:b:285:ARG:NH2	1:b:612:GLN:HB2	2.35	0.42
1:b:353:LEU:HD23	1:b:643:GLN:HE21	1.85	0.42
1:f:285:ARG:NH2	1:f:612:GLN:HB2	2.35	0.42
1:f:353:LEU:HD23	1:f:643:GLN:HE21	1.84	0.42
1:g:377:LEU:HD21	1:h:435:PRO:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:429:LEU:O	1:j:432:LEU:HD13	2.19	0.42
1:j:617:ALA:HB3	1:j:630:PRO:HG3	2.01	0.42
1:k:499:PRO:O	1:k:503:ALA:HB2	2.19	0.42
1:l:285:ARG:NH2	1:l:612:GLN:HB2	2.35	0.42
1:l:499:PRO:O	1:l:503:ALA:HB2	2.19	0.42
1:u:353:LEU:HD23	1:u:643:GLN:HE21	1.85	0.42
1:v:499:PRO:O	1:v:503:ALA:HB2	2.19	0.42
1:w:285:ARG:NH2	1:w:612:GLN:HB2	2.35	0.42
1:w:562:GLU:HA	1:x:388:ARG:HH12	1.83	0.42
1:w:625[B]:HIS:HD2	1:y:603:VAL:HG12	1.84	0.42
1:y:285:ARG:NH2	1:y:612:GLN:HB2	2.35	0.42
1:2:403:ARG:H	1:2:406:ASN:HD22	1.68	0.42
1:2:561:GLU:HG2	1:2:564:ARG:NE	2.34	0.42
1:A:561:GLU:HG2	1:A:564:ARG:NE	2.34	0.42
1:B:561:GLU:HG2	1:B:564:ARG:NE	2.34	0.42
1:C:377:LEU:HD21	1:M:435:PRO:HB3	2.02	0.42
1:D:429:LEU:O	1:D:432:LEU:HD13	2.19	0.42
1:D:487:SER:O	1:D:493:ASN:ND2	2.41	0.42
1:E:499:PRO:O	1:E:503:ALA:HB2	2.19	0.42
1:F:285:ARG:NH2	1:F:612:GLN:HB2	2.35	0.42
1:H:603:VAL:HG12	1:W:625[B]:HIS:HD2	1.85	0.42
1:I:561:GLU:HG2	1:I:564:ARG:NE	2.34	0.42
1:J:603:VAL:HG12	1:L:625[B]:HIS:HD2	1.85	0.42
1:M:625[B]:HIS:HD2	1:b:603:VAL:HG12	1.85	0.42
1:R:285:ARG:NH2	1:R:612:GLN:HB2	2.35	0.42
1:R:617:ALA:HB3	1:R:630:PRO:HG3	2.01	0.42
1:U:561:GLU:HG2	1:U:564:ARG:NE	2.34	0.42
1:V:285:ARG:NH2	1:V:612:GLN:HB2	2.35	0.42
1:V:561:GLU:HG2	1:V:564:ARG:NE	2.34	0.42
1:V:603:VAL:HG12	1:e:625[B]:HIS:HD2	1.85	0.42
1:Y:499:PRO:O	1:Y:503:ALA:HB2	2.19	0.42
1:Y:567:ASN:OD1	1:Y:604:TRP:HB2	2.18	0.42
1:Z:435:PRO:HB3	1:4:377:LEU:HD21	2.02	0.42
1:a:567:ASN:OD1	1:a:604:TRP:HB2	2.19	0.42
1:c:429:LEU:O	1:c:432:LEU:HD13	2.19	0.42
1:d:439:GLN:HA	1:l:357:HIS:HA	2.01	0.42
1:f:603:VAL:HG12	1:h:625[B]:HIS:HD2	1.85	0.42
1:h:228[A]:HIS:O	1:h:243:THR:OG1	2.25	0.42
1:i:285:ARG:NH2	1:i:612:GLN:HB2	2.35	0.42
1:j:285:ARG:NH2	1:j:612:GLN:HB2	2.35	0.42
1:m:285:ARG:NH2	1:m:612:GLN:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:226:ASN:HD22	1:q:401:MET:H	1.68	0.42
1:p:285:ARG:NH2	1:p:612:GLN:HB2	2.35	0.42
1:p:403:ARG:H	1:p:406:ASN:HD22	1.68	0.42
1:r:285:ARG:NH2	1:r:612:GLN:HB2	2.35	0.42
1:s:561:GLU:HG2	1:s:564:ARG:NE	2.34	0.42
1:t:353:LEU:HD23	1:t:643:GLN:HE21	1.85	0.42
1:w:499:PRO:O	1:w:503:ALA:HB2	2.19	0.42
1:w:631:LEU:CD1	1:y:476:LEU:HD23	2.50	0.42
1:1:429:LEU:O	1:1:432:LEU:HD13	2.19	0.42
1:2:499:PRO:O	1:2:503:ALA:HB2	2.19	0.42
1:3:285:ARG:NH2	1:3:612:GLN:HB2	2.35	0.42
1:3:353:LEU:HD23	1:3:643:GLN:HE21	1.84	0.42
1:3:567:ASN:OD1	1:3:604:TRP:HB2	2.19	0.42
1:3:617:ALA:HB3	1:3:630:PRO:HG3	2.01	0.42
1:4:617:ALA:HB3	1:4:630:PRO:HG3	2.01	0.42
1:7:403:ARG:H	1:7:406:ASN:HD22	1.68	0.42
1:7:561:GLU:HG2	1:7:564:ARG:NE	2.34	0.42
1:8:285:ARG:NH2	1:8:612:GLN:HB2	2.35	0.42
1:A:476:LEU:HD23	1:G:631:LEU:CD1	2.50	0.42
1:A:487:SER:O	1:A:493:ASN:ND2	2.41	0.42
1:D:403:ARG:H	1:D:406:ASN:HD22	1.68	0.42
1:D:439:GLN:HA	1:N:357:HIS:HA	2.01	0.42
1:E:285:ARG:NH2	1:E:612:GLN:HB2	2.35	0.42
1:E:562:GLU:HA	1:Q:388:ARG:HH12	1.83	0.42
1:H:470:LEU:HD23	1:W:514:LEU:HD13	2.00	0.42
1:K:357:HIS:HA	1:8:439:GLN:HA	2.01	0.42
1:K:499:PRO:O	1:K:503:ALA:HB2	2.19	0.42
1:K:584:SER:HA	1:a:494:ASN:HA	2.01	0.42
1:K:603:VAL:HG12	1:a:625[B]:HIS:HD2	1.85	0.42
1:K:617:ALA:HB3	1:K:630:PRO:HG3	2.01	0.42
1:L:403:ARG:H	1:L:406:ASN:HD22	1.68	0.42
1:N:285:ARG:NH2	1:N:612:GLN:HB2	2.35	0.42
1:N:435:PRO:HB3	1:P:377:LEU:HD21	2.01	0.42
1:P:429:LEU:O	1:P:432:LEU:HD13	2.19	0.42
1:R:401:MET:H	1:V:226:ASN:HD22	1.68	0.42
1:R:439:GLN:HA	1:S:357:HIS:HA	2.01	0.42
1:T:285:ARG:NH2	1:T:612:GLN:HB2	2.35	0.42
1:W:429:LEU:O	1:W:432:LEU:HD13	2.19	0.42
1:X:285:ARG:NH2	1:X:612:GLN:HB2	2.35	0.42
1:Y:561:GLU:HG2	1:Y:564:ARG:NE	2.34	0.42
1:a:285:ARG:NH2	1:a:612:GLN:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:353:LEU:HD23	1:a:643:GLN:HE21	1.84	0.42
1:a:439:GLN:HA	1:8:357:HIS:HA	2.01	0.42
1:c:625[B]:HIS:HD2	1:p:603:VAL:HG12	1.85	0.42
1:i:357:HIS:HA	1:k:439:GLN:HA	2.01	0.42
1:i:625[B]:HIS:HD2	1:k:603:VAL:HG12	1.85	0.42
1:o:285:ARG:NH2	1:o:612:GLN:HB2	2.35	0.42
1:p:561:GLU:HG2	1:p:564:ARG:NE	2.34	0.42
1:q:285:ARG:NH2	1:q:612:GLN:HB2	2.35	0.42
1:q:439:GLN:HA	1:r:357:HIS:HA	2.01	0.42
1:t:285:ARG:NH2	1:t:612:GLN:HB2	2.35	0.42
1:t:403:ARG:H	1:t:406:ASN:HD22	1.68	0.42
1:u:561:GLU:HG2	1:u:564:ARG:NE	2.34	0.42
1:v:561:GLU:HG2	1:v:564:ARG:NE	2.34	0.42
1:w:403:ARG:H	1:w:406:ASN:HD22	1.68	0.42
1:x:285:ARG:NH2	1:x:612:GLN:HB2	2.35	0.42
1:z:625[B]:HIS:HD2	1:2:603:VAL:HG12	1.85	0.42
1:3:494:ASN:HA	1:4:584:SER:HA	2.01	0.42
1:3:625[B]:HIS:HD2	1:4:603:VAL:HG12	1.85	0.42
1:4:499:PRO:O	1:4:503:ALA:HB2	2.19	0.42
1:5:470:LEU:HD23	1:6:514:LEU:HD13	2.01	0.42
1:7:228[A]:HIS:O	1:7:243:THR:OG1	2.25	0.42
1:7:285:ARG:NH2	1:7:612:GLN:HB2	2.35	0.42
1:7:376:TYR:HH	1:7:392:TYR:H	1.66	0.42
1:7:499:PRO:O	1:7:503:ALA:HB2	2.19	0.42
1:7:567:ASN:OD1	1:7:604:TRP:HB2	2.18	0.42
1:A:226:ASN:HD22	1:E:401:MET:H	1.68	0.42
1:A:401:MET:H	1:B:226:ASN:HD22	1.68	0.42
1:B:429:LEU:O	1:B:432:LEU:HD13	2.19	0.42
1:C:499:PRO:O	1:C:503:ALA:HB2	2.19	0.42
1:C:567:ASN:OD1	1:C:604:TRP:HB2	2.18	0.42
1:D:435:PRO:HB3	1:N:377:LEU:HD21	2.01	0.42
1:D:561:GLU:HG2	1:D:564:ARG:NE	2.34	0.42
1:D:584:SER:HA	1:N:494:ASN:HA	2.01	0.42
1:E:631:LEU:CD1	1:F:476:LEU:HD23	2.50	0.42
1:G:285:ARG:NH2	1:G:612:GLN:HB2	2.35	0.42
1:G:403:ARG:H	1:G:406:ASN:HD22	1.68	0.42
1:K:226:ASN:HD22	1:L:401:MET:H	1.68	0.42
1:L:285:ARG:NH2	1:L:612:GLN:HB2	2.35	0.42
1:N:353:LEU:HD23	1:N:643:GLN:HE21	1.85	0.42
1:S:353:LEU:HA	1:S:353:LEU:HD13	1.66	0.42
1:V:435:PRO:HB3	1:e:377:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:226:ASN:HD22	1:Y:401:MET:H	1.68	0.42
1:X:494:ASN:HA	1:e:584:SER:HA	2.01	0.42
1:Y:285:ARG:NH2	1:Y:612:GLN:HB2	2.35	0.42
1:Y:352:VAL:H	1:Y:643:GLN:NE2	2.18	0.42
1:Z:482:ARG:HD3	1:3:578:SER:O	2.18	0.42
1:a:617:ALA:HB3	1:a:630:PRO:HG3	2.01	0.42
1:b:352:VAL:H	1:b:643:GLN:NE2	2.18	0.42
1:c:285:ARG:NH2	1:c:612:GLN:HB2	2.35	0.42
1:c:435:PRO:HB3	1:o:377:LEU:HD21	2.00	0.42
1:c:584:SER:HA	1:o:494:ASN:HA	2.01	0.42
1:d:285:ARG:NH2	1:d:612:GLN:HB2	2.35	0.42
1:d:353:LEU:HD23	1:d:643:GLN:HE21	1.85	0.42
1:e:285:ARG:NH2	1:e:612:GLN:HB2	2.35	0.42
1:g:499:PRO:O	1:g:503:ALA:HB2	2.19	0.42
1:g:567:ASN:OD1	1:g:604:TRP:HB2	2.18	0.42
1:h:285:ARG:NH2	1:h:612:GLN:HB2	2.35	0.42
1:i:353:LEU:HD23	1:i:643:GLN:HE21	1.85	0.42
1:i:435:PRO:HB3	1:j:377:LEU:HD21	2.01	0.42
1:i:494:ASN:HA	1:k:584:SER:HA	2.01	0.42
1:k:403:ARG:H	1:k:406:ASN:HD22	1.68	0.42
1:k:561:GLU:HG2	1:k:564:ARG:NE	2.34	0.42
1:q:429:LEU:O	1:q:432:LEU:HD13	2.19	0.42
1:u:603:VAL:HG12	1:v:625[B]:HIS:HD2	1.85	0.42
1:z:403:ARG:H	1:z:406:ASN:HD22	1.68	0.42
1:1:561:GLU:HG2	1:1:564:ARG:NE	2.34	0.42
1:1:603:VAL:HG12	1:2:625[B]:HIS:HD2	1.85	0.42
1:5:353:LEU:HD23	1:5:643:GLN:HE21	1.85	0.42
1:5:603:VAL:HG12	1:6:625[B]:HIS:HD2	1.85	0.42
1:6:429:LEU:O	1:6:432:LEU:HD13	2.19	0.42
1:E:403:ARG:H	1:E:406:ASN:HD22	1.68	0.42
1:E:561:GLU:HG2	1:E:564:ARG:NE	2.34	0.42
1:E:625[B]:HIS:HD2	1:F:603:VAL:HG12	1.85	0.42
1:H:353:LEU:HD23	1:H:643:GLN:HE21	1.84	0.42
1:J:226:ASN:HD22	1:a:401:MET:H	1.68	0.42
1:K:494:ASN:HA	1:8:584:SER:HA	2.01	0.42
1:L:478:GLY:HA3	1:L:604:TRP:HB3	2.01	0.42
1:M:377:LEU:HD21	1:b:435:PRO:HB3	2.01	0.42
1:O:494:ASN:HA	1:n:584:SER:HA	2.01	0.42
1:P:352:VAL:H	1:P:643:GLN:NE2	2.18	0.42
1:P:403:ARG:H	1:P:406:ASN:HD22	1.68	0.42
1:Q:285:ARG:NH2	1:Q:612:GLN:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:478:GLY:HA3	1:Q:604:TRP:HB3	2.01	0.42
1:S:226:ASN:HD22	1:d:401:MET:H	1.68	0.42
1:S:478:GLY:HA3	1:S:604:TRP:HB3	2.01	0.42
1:S:603:VAL:HG12	1:U:625[B]:HIS:HD2	1.85	0.42
1:U:352:VAL:H	1:U:643:GLN:NE2	2.18	0.42
1:U:353:LEU:HD23	1:U:643:GLN:HE21	1.85	0.42
1:V:631:LEU:CD1	1:X:476:LEU:HD23	2.50	0.42
1:Y:226:ASN:HD22	1:4:401:MET:H	1.68	0.42
1:Y:376:TYR:HH	1:Y:392:TYR:H	1.66	0.42
1:Y:617:ALA:HB3	1:Y:630:PRO:HG3	2.01	0.42
1:c:377:LEU:HD21	1:p:435:PRO:HB3	2.01	0.42
1:c:561:GLU:HG2	1:c:564:ARG:NE	2.34	0.42
1:d:584:SER:HA	1:l:494:ASN:HA	2.01	0.42
1:f:352:VAL:H	1:f:643:GLN:NE2	2.18	0.42
1:f:435:PRO:HB3	1:h:377:LEU:HD21	2.01	0.42
1:g:226:ASN:HD22	1:1:401:MET:H	1.68	0.42
1:h:318:GLN:HE22	1:i:337:SER:HA	1.85	0.42
1:j:352:VAL:H	1:j:643:GLN:NE2	2.18	0.42
1:j:403:ARG:H	1:j:406:ASN:HD22	1.68	0.42
1:n:285:ARG:NH2	1:n:612:GLN:HB2	2.35	0.42
1:n:401:MET:H	1:r:226:ASN:HD22	1.68	0.42
1:o:226:ASN:HD22	1:7:401:MET:H	1.67	0.42
1:o:476:LEU:HD23	1:p:631:LEU:CD1	2.50	0.42
1:q:617:ALA:HB3	1:q:630:PRO:HG3	2.01	0.42
1:r:603:VAL:HG12	1:s:625[B]:HIS:HD2	1.85	0.42
1:t:631:LEU:CD1	1:v:476:LEU:HD23	2.50	0.42
1:u:435:PRO:HB3	1:v:377:LEU:HD21	2.02	0.42
1:u:584:SER:HA	1:v:494:ASN:HA	2.02	0.42
1:v:487:SER:O	1:v:493:ASN:ND2	2.41	0.42
1:x:478:GLY:HA3	1:x:604:TRP:HB3	2.01	0.42
1:z:285:ARG:NH2	1:z:612:GLN:HB2	2.35	0.42
1:z:401:MET:H	1:4:226:ASN:HD22	1.68	0.42
1:1:403:ARG:H	1:1:406:ASN:HD22	1.68	0.42
1:2:226:ASN:HD22	1:3:401:MET:H	1.68	0.42
1:6:499:PRO:O	1:6:503:ALA:HB2	2.19	0.42
1:A:352:VAL:H	1:A:643:GLN:NE2	2.18	0.41
1:B:403:ARG:H	1:B:406:ASN:HD22	1.68	0.41
1:E:478:GLY:HA3	1:E:604:TRP:HB3	2.01	0.41
1:F:377:LEU:HD21	1:Q:435:PRO:HB3	2.02	0.41
1:H:617:ALA:HB3	1:H:630:PRO:HG3	2.01	0.41
1:H:625[B]:HIS:HD2	1:Y:603:VAL:HG12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:691:ARG:NH1	1:H:695:GLU:HG2	2.35	0.41
1:K:691:ARG:NH1	1:K:695:GLU:HG2	2.35	0.41
1:M:228[A]:HIS:O	1:M:243:THR:OG1	2.25	0.41
1:M:285:ARG:NH2	1:M:612:GLN:HB2	2.35	0.41
1:M:318:GLN:HE22	1:N:337:SER:HA	1.85	0.41
1:M:617:ALA:HB3	1:M:630:PRO:HG3	2.01	0.41
1:N:561:GLU:HG2	1:N:564:ARG:NE	2.34	0.41
1:O:353:LEU:HD23	1:O:643:GLN:HE21	1.85	0.41
1:O:435:PRO:HB3	1:m:377:LEU:HD21	2.01	0.41
1:T:377:LEU:HD21	1:l:435:PRO:HB3	2.01	0.41
1:V:584:SER:HA	1:e:494:ASN:HA	2.01	0.41
1:V:617:ALA:HB3	1:V:630:PRO:HG3	2.01	0.41
1:a:478:GLY:HA3	1:a:604:TRP:HB3	2.01	0.41
1:a:561:GLU:HG2	1:a:564:ARG:NE	2.34	0.41
1:d:478:GLY:HA3	1:d:604:TRP:HB3	2.01	0.41
1:e:353:LEU:HD23	1:e:643:GLN:HE21	1.85	0.41
1:e:403:ARG:H	1:e:406:ASN:HD22	1.68	0.41
1:e:499:PRO:O	1:e:503:ALA:HB2	2.19	0.41
1:g:352:VAL:H	1:g:643:GLN:NE2	2.18	0.41
1:g:625[B]:HIS:HD2	1:h:603:VAL:HG12	1.85	0.41
1:i:352:VAL:H	1:i:643:GLN:NE2	2.18	0.41
1:i:377:LEU:HD21	1:k:435:PRO:HB3	2.01	0.41
1:i:561:GLU:HG2	1:i:564:ARG:NE	2.34	0.41
1:k:487:SER:O	1:k:493:ASN:ND2	2.41	0.41
1:l:353:LEU:HD23	1:l:643:GLN:HE21	1.85	0.41
1:n:353:LEU:HD23	1:n:643:GLN:HE21	1.85	0.41
1:n:478:GLY:HA3	1:n:604:TRP:HB3	2.01	0.41
1:o:603:VAL:HG12	1:p:625[B]:HIS:HD2	1.85	0.41
1:p:617:ALA:HB3	1:p:630:PRO:HG3	2.01	0.41
1:q:562:GLU:HG3	1:r:388:ARG:NH2	2.33	0.41
1:r:478:GLY:HA3	1:r:604:TRP:HB3	2.01	0.41
1:s:352:VAL:H	1:s:643:GLN:NE2	2.18	0.41
1:s:353:LEU:HD23	1:s:643:GLN:HE21	1.85	0.41
1:v:352:VAL:H	1:v:643:GLN:NE2	2.18	0.41
1:w:478:GLY:HA3	1:w:604:TRP:HB3	2.01	0.41
1:x:435:PRO:HB3	1:y:377:LEU:HD21	2.02	0.41
1:y:352:VAL:H	1:y:643:GLN:NE2	2.18	0.41
1:z:478:GLY:HA3	1:z:604:TRP:HB3	2.01	0.41
1:z:691:ARG:NH1	1:z:695:GLU:HG2	2.35	0.41
1:1:470:LEU:HD23	1:2:514:LEU:HD13	2.00	0.41
1:2:617:ALA:HB3	1:2:630:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:625[B]:HIS:HD2	1:7:603:VAL:HG12	1.85	0.41
1:6:603:VAL:HG12	1:7:625[B]:HIS:HD2	1.85	0.41
1:7:352:VAL:H	1:7:643:GLN:NE2	2.18	0.41
1:7:617:ALA:HB3	1:7:630:PRO:HG3	2.01	0.41
1:A:403:ARG:H	1:A:406:ASN:HD22	1.68	0.41
1:A:631:LEU:CD1	1:I:476:LEU:HD23	2.50	0.41
1:B:352:VAL:H	1:B:643:GLN:NE2	2.18	0.41
1:B:401:MET:H	1:C:226:ASN:HD22	1.68	0.41
1:B:499:PRO:O	1:B:503:ALA:HB2	2.19	0.41
1:B:603:VAL:HG12	1:J:625[B]:HIS:HD2	1.85	0.41
1:C:352:VAL:H	1:C:643:GLN:NE2	2.18	0.41
1:D:478:GLY:HA3	1:D:604:TRP:HB3	2.01	0.41
1:F:352:VAL:H	1:F:643:GLN:NE2	2.18	0.41
1:F:494:ASN:HA	1:Q:584:SER:HA	2.02	0.41
1:F:691:ARG:NH1	1:F:695:GLU:HG2	2.36	0.41
1:I:318:GLN:HE22	1:J:337:SER:HA	1.85	0.41
1:J:470:LEU:HD23	1:L:514:LEU:HD13	2.01	0.41
1:J:617:ALA:HB3	1:J:630:PRO:HG3	2.01	0.41
1:K:401:MET:H	1:7:226:ASN:HD22	1.68	0.41
1:K:403:ARG:H	1:K:406:ASN:HD22	1.68	0.41
1:L:691:ARG:NH1	1:L:695:GLU:HG2	2.35	0.41
1:N:352:VAL:H	1:N:643:GLN:NE2	2.18	0.41
1:O:603:VAL:HG12	1:m:625[B]:HIS:HD2	1.85	0.41
1:R:353:LEU:HD23	1:R:643:GLN:HE21	1.85	0.41
1:R:562:GLU:HG3	1:S:388:ARG:NH2	2.33	0.41
1:T:625[B]:HIS:HD2	1:l:603:VAL:HG12	1.85	0.41
1:V:352:VAL:H	1:V:643:GLN:NE2	2.18	0.41
1:V:377:LEU:HD21	1:X:435:PRO:HB3	2.02	0.41
1:V:625[B]:HIS:HD2	1:X:603:VAL:HG12	1.85	0.41
1:W:478:GLY:HA3	1:W:604:TRP:HB3	2.01	0.41
1:Y:353:LEU:HD23	1:Y:643:GLN:HE21	1.84	0.41
1:Z:476:LEU:HD23	1:4:631:LEU:CD1	2.50	0.41
1:c:353:LEU:HD23	1:c:643:GLN:HE21	1.85	0.41
1:c:403:ARG:H	1:c:406:ASN:HD22	1.68	0.41
1:c:494:ASN:HA	1:p:584:SER:HA	2.01	0.41
1:c:499:PRO:O	1:c:503:ALA:HB2	2.19	0.41
1:d:691:ARG:NH1	1:d:695:GLU:HG2	2.36	0.41
1:e:561:GLU:HG2	1:e:564:ARG:NE	2.34	0.41
1:h:617:ALA:HB3	1:h:630:PRO:HG3	2.01	0.41
1:n:691:ARG:NH1	1:n:695:GLU:HG2	2.36	0.41
1:o:435:PRO:HB3	1:p:377:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:352:VAL:H	1:p:643:GLN:NE2	2.18	0.41
1:r:499:PRO:O	1:r:503:ALA:HB2	2.19	0.41
1:u:562:GLU:HG3	1:v:388:ARG:NH2	2.33	0.41
1:v:318:GLN:HE22	1:w:337:SER:HA	1.85	0.41
1:v:403:ARG:H	1:v:406:ASN:HD22	1.68	0.41
1:w:561:GLU:HG2	1:w:564:ARG:NE	2.34	0.41
1:w:691:ARG:NH1	1:w:695:GLU:HG2	2.36	0.41
1:x:476:LEU:HD23	1:y:631:LEU:CD1	2.50	0.41
1:x:584:SER:HA	1:y:494:ASN:HA	2.02	0.41
1:y:691:ARG:NH1	1:y:695:GLU:HG2	2.36	0.41
1:z:514:LEU:HD13	1:2:470:LEU:HD23	2.01	0.41
1:1:352:VAL:H	1:1:643:GLN:NE2	2.18	0.41
1:3:478:GLY:HA3	1:3:604:TRP:HB3	2.01	0.41
1:4:352:VAL:H	1:4:643:GLN:NE2	2.18	0.41
1:4:691:ARG:NH1	1:4:695:GLU:HG2	2.36	0.41
1:5:617:ALA:HB3	1:5:630:PRO:HG3	2.01	0.41
1:5:691:ARG:NH1	1:5:695:GLU:HG2	2.36	0.41
1:6:285:ARG:NH2	1:6:612:GLN:HB2	2.35	0.41
1:6:478:GLY:HA3	1:6:604:TRP:HB3	2.01	0.41
1:6:561:GLU:HG2	1:6:564:ARG:NE	2.34	0.41
1:B:470:LEU:HD23	1:J:514:LEU:HD13	2.01	0.41
1:C:603:VAL:HG12	1:b:625[B]:HIS:HD2	1.85	0.41
1:E:691:ARG:NH1	1:E:695:GLU:HG2	2.36	0.41
1:F:631:LEU:CD1	1:Q:476:LEU:HD23	2.50	0.41
1:H:352:VAL:H	1:H:643:GLN:NE2	2.18	0.41
1:J:285:ARG:NH2	1:J:612:GLN:HB2	2.35	0.41
1:P:353:LEU:HD23	1:P:643:GLN:HE21	1.85	0.41
1:U:226:ASN:HD22	1:e:401:MET:H	1.68	0.41
1:W:499:PRO:O	1:W:503:ALA:HB2	2.19	0.41
1:W:561:GLU:HG2	1:W:564:ARG:NE	2.34	0.41
1:X:352:VAL:H	1:X:643:GLN:NE2	2.18	0.41
1:X:377:LEU:HD21	1:e:435:PRO:HB3	2.01	0.41
1:c:352:VAL:H	1:c:643:GLN:NE2	2.18	0.41
1:e:691:ARG:NH1	1:e:695:GLU:HG2	2.36	0.41
1:i:603:VAL:HG12	1:j:625[B]:HIS:HD2	1.85	0.41
1:m:355:SER:HB2	1:m:357:HIS:CD2	2.56	0.41
1:q:353:LEU:HD23	1:q:643:GLN:HE21	1.85	0.41
1:r:337:SER:HA	1:x:318:GLN:HE22	1.85	0.41
1:r:337:SER:HA	1:x:318:GLN:NE2	2.36	0.41
1:s:355:SER:HB2	1:s:357:HIS:CD2	2.56	0.41
1:t:388:ARG:NH2	1:v:562:GLU:HG3	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:561:GLU:HG2	1:t:564:ARG:NE	2.34	0.41
1:u:318:GLN:HE22	1:2:337:SER:HA	1.85	0.41
1:u:476:LEU:HD23	1:v:631:LEU:CD1	2.50	0.41
1:v:318:GLN:NE2	1:w:337:SER:HA	2.35	0.41
1:v:353:LEU:HD23	1:v:643:GLN:HE21	1.85	0.41
1:v:376:TYR:HH	1:v:392:TYR:H	1.66	0.41
1:x:691:ARG:NH1	1:x:695:GLU:HG2	2.35	0.41
1:y:617:ALA:HB3	1:y:630:PRO:HG3	2.01	0.41
1:2:285:ARG:NH2	1:2:612:GLN:HB2	2.35	0.41
1:4:403:ARG:H	1:4:406:ASN:HD22	1.68	0.41
1:7:353:LEU:HD23	1:7:643:GLN:HE21	1.85	0.41
1:7:691:ARG:NH1	1:7:695:GLU:HG2	2.36	0.41
1:A:285:ARG:NH2	1:A:612:GLN:HB2	2.35	0.41
1:A:377:LEU:HD21	1:I:435:PRO:HB3	2.02	0.41
1:B:494:ASN:HA	1:L:584:SER:HA	2.01	0.41
1:C:285:ARG:NH2	1:C:612:GLN:HB2	2.35	0.41
1:C:625[B]:HIS:HD2	1:M:603:VAL:HG12	1.85	0.41
1:E:353:LEU:HD13	1:E:353:LEU:HA	1.66	0.41
1:E:435:PRO:HB3	1:Q:377:LEU:HD21	2.01	0.41
1:F:355:SER:HB2	1:F:357:HIS:CD2	2.56	0.41
1:F:403:ARG:H	1:F:406:ASN:HD22	1.68	0.41
1:F:617:ALA:HB3	1:F:630:PRO:HG3	2.01	0.41
1:G:422:SER:HA	1:G:726:THR:HG23	2.03	0.41
1:G:561:GLU:HG2	1:G:564:ARG:NE	2.34	0.41
1:K:352:VAL:H	1:K:643:GLN:NE2	2.18	0.41
1:K:625[B]:HIS:HD2	1:8:603:VAL:HG12	1.85	0.41
1:M:478:GLY:HA3	1:M:604:TRP:HB3	2.01	0.41
1:N:603:VAL:HG12	1:P:625[B]:HIS:HD2	1.85	0.41
1:Q:318:GLN:HE22	1:S:337:SER:HA	1.86	0.41
1:Q:318:GLN:NE2	1:S:337:SER:HA	2.36	0.41
1:R:337:SER:HA	1:V:318:GLN:HE22	1.86	0.41
1:R:561:GLU:HG2	1:R:564:ARG:NE	2.34	0.41
1:S:499:PRO:O	1:S:503:ALA:HB2	2.19	0.41
1:T:352:VAL:H	1:T:643:GLN:NE2	2.18	0.41
1:T:355:SER:HB2	1:T:357:HIS:CD2	2.56	0.41
1:T:422:SER:HA	1:T:726:THR:HG23	2.03	0.41
1:U:355:SER:HB2	1:U:357:HIS:CD2	2.56	0.41
1:V:470:LEU:HD23	1:e:514:LEU:HD13	2.01	0.41
1:W:285:ARG:NH2	1:W:612:GLN:HB2	2.35	0.41
1:W:603:VAL:HG12	1:Y:625[B]:HIS:HD2	1.85	0.41
1:X:691:ARG:NH1	1:X:695:GLU:HG2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:691:ARG:NH1	1:Y:695:GLU:HG2	2.36	0.41
1:a:403:ARG:H	1:a:406:ASN:HD22	1.68	0.41
1:c:401:MET:H	1:s:226:ASN:HD22	1.68	0.41
1:c:691:ARG:NH1	1:c:695:GLU:HG2	2.36	0.41
1:e:352:VAL:H	1:e:643:GLN:NE2	2.18	0.41
1:f:625[B]:HIS:HD2	1:g:603:VAL:HG12	1.85	0.41
1:f:691:ARG:NH1	1:f:695:GLU:HG2	2.36	0.41
1:h:478:GLY:HA3	1:h:604:TRP:HB3	2.01	0.41
1:j:691:ARG:NH1	1:j:695:GLU:HG2	2.35	0.41
1:k:478:GLY:HA3	1:k:604:TRP:HB3	2.01	0.41
1:o:352:VAL:H	1:o:643:GLN:NE2	2.18	0.41
1:o:691:ARG:NH1	1:o:695:GLU:HG2	2.35	0.41
1:q:625[B]:HIS:HD2	1:s:603:VAL:HG12	1.85	0.41
1:v:285:ARG:NH2	1:v:612:GLN:HB2	2.35	0.41
1:y:355:SER:HB2	1:y:357:HIS:CD2	2.56	0.41
1:y:403:ARG:H	1:y:406:ASN:HD22	1.68	0.41
1:z:337:SER:HA	1:4:318:GLN:HE22	1.85	0.41
1:z:494:ASN:HA	1:2:584:SER:HA	2.02	0.41
1:1:499:PRO:O	1:1:503:ALA:HB2	2.19	0.41
1:3:403:ARG:H	1:3:406:ASN:HD22	1.68	0.41
1:3:561:GLU:HG2	1:3:564:ARG:NE	2.34	0.41
1:5:337:SER:HA	1:8:318:GLN:HE22	1.86	0.41
1:5:352:VAL:H	1:5:643:GLN:NE2	2.18	0.41
1:7:364:PHE:HA	1:7:365:PRO:HD3	1.96	0.41
1:A:318:GLN:HE22	1:E:337:SER:HA	1.86	0.41
1:A:353:LEU:HD23	1:A:643:GLN:HE21	1.85	0.41
1:A:355:SER:HB2	1:A:357:HIS:CD2	2.56	0.41
1:D:340:GLN:O	1:D:646:ILE:HA	2.21	0.41
1:D:352:VAL:H	1:D:643:GLN:NE2	2.18	0.41
1:D:691:ARG:NH1	1:D:695:GLU:HG2	2.36	0.41
1:E:476:LEU:HD23	1:Q:631:LEU:CD1	2.51	0.41
1:G:318:GLN:HE22	1:W:337:SER:HA	1.86	0.41
1:G:355:SER:HB2	1:G:357:HIS:CD2	2.56	0.41
1:J:584:SER:HA	1:L:494:ASN:HA	2.02	0.41
1:N:226:ASN:HD22	1:m:401:MET:H	1.68	0.41
1:P:691:ARG:NH1	1:P:695:GLU:HG2	2.35	0.41
1:Q:691:ARG:NH1	1:Q:695:GLU:HG2	2.36	0.41
1:R:625[B]:HIS:HD2	1:U:603:VAL:HG12	1.85	0.41
1:V:476:LEU:HD23	1:e:631:LEU:CD1	2.51	0.41
1:W:691:ARG:NH1	1:W:695:GLU:HG2	2.35	0.41
1:X:403:ARG:H	1:X:406:ASN:HD22	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:352:VAL:H	1:Z:643:GLN:NE2	2.18	0.41
1:Z:440:TYR:CE1	1:4:285:ARG:NH1	2.88	0.41
1:c:514:LEU:HD13	1:p:470:LEU:HD23	2.01	0.41
1:c:631:LEU:CD1	1:p:476:LEU:HD23	2.51	0.41
1:g:494:ASN:HA	1:h:584:SER:HA	2.03	0.41
1:h:318:GLN:NE2	1:i:337:SER:HA	2.35	0.41
1:h:487:SER:O	1:h:493:ASN:ND2	2.41	0.41
1:j:353:LEU:HD23	1:j:643:GLN:HE21	1.85	0.41
1:k:224:SER:HG	1:k:316:ASN:H	1.67	0.41
1:k:691:ARG:NH1	1:k:695:GLU:HG2	2.36	0.41
1:m:352:VAL:H	1:m:643:GLN:NE2	2.18	0.41
1:m:422:SER:HA	1:m:726:THR:HG23	2.03	0.41
1:n:355:SER:HB2	1:n:357:HIS:CD2	2.56	0.41
1:o:318:GLN:NE2	1:7:337:SER:HA	2.35	0.41
1:o:403:ARG:H	1:o:406:ASN:HD22	1.68	0.41
1:p:318:GLN:HE22	1:q:337:SER:HA	1.86	0.41
1:p:340:GLN:O	1:p:646:ILE:HA	2.21	0.41
1:p:353:LEU:HD23	1:p:643:GLN:HE21	1.84	0.41
1:q:561:GLU:HG2	1:q:564:ARG:NE	2.34	0.41
1:t:337:SER:HA	1:y:318:GLN:NE2	2.36	0.41
1:t:355:SER:HB2	1:t:357:HIS:CD2	2.56	0.41
1:t:422:SER:HA	1:t:726:THR:HG23	2.03	0.41
1:u:352:VAL:H	1:u:643:GLN:NE2	2.18	0.41
1:v:355:SER:HB2	1:v:357:HIS:CD2	2.56	0.41
1:w:285:ARG:NH1	1:y:440:TYR:CE1	2.89	0.41
1:w:435:PRO:HB3	1:x:377:LEU:HD21	2.01	0.41
1:z:584:SER:HA	1:1:494:ASN:HA	2.01	0.41
1:4:285:ARG:NH2	1:4:612:GLN:HB2	2.35	0.41
1:6:691:ARG:NH1	1:6:695:GLU:HG2	2.36	0.41
1:A:625[B]:HIS:HD2	1:I:603:VAL:HG12	1.85	0.41
1:A:691:ARG:NH1	1:A:695:GLU:HG2	2.36	0.41
1:B:617:ALA:HB3	1:B:630:PRO:HG3	2.01	0.41
1:C:494:ASN:HA	1:M:584:SER:HA	2.03	0.41
1:D:285:ARG:NH2	1:D:612:GLN:HB2	2.35	0.41
1:E:285:ARG:NH1	1:F:440:TYR:CE1	2.89	0.41
1:E:355:SER:HB2	1:E:357:HIS:CD2	2.56	0.41
1:F:285:ARG:NH1	1:Q:440:TYR:CE1	2.89	0.41
1:F:318:GLN:NE2	1:G:337:SER:HA	2.36	0.41
1:H:318:GLN:HE22	1:I:337:SER:HA	1.86	0.41
1:J:318:GLN:HE22	1:a:337:SER:HA	1.86	0.41
1:J:691:ARG:NH1	1:J:695:GLU:HG2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:318:GLN:NE2	1:N:337:SER:HA	2.35	0.41
1:O:403:ARG:H	1:O:406:ASN:HD22	1.68	0.41
1:P:355:SER:HB2	1:P:357:HIS:CD2	2.56	0.41
1:Q:228[A]:HIS:O	1:Q:243:THR:OG1	2.25	0.41
1:Q:352:VAL:H	1:Q:643:GLN:NE2	2.18	0.41
1:Q:355:SER:HB2	1:Q:357:HIS:CD2	2.56	0.41
1:Q:422:SER:HA	1:Q:726:THR:HG23	2.03	0.41
1:R:691:ARG:NH1	1:R:695:GLU:HG2	2.36	0.41
1:S:355:SER:HB2	1:S:357:HIS:CD2	2.56	0.41
1:T:226:ASN:HD22	1:U:401:MET:H	1.68	0.41
1:V:353:LEU:HD23	1:V:643:GLN:HE21	1.84	0.41
1:W:355:SER:HB2	1:W:357:HIS:CD2	2.56	0.41
1:Z:403:ARG:H	1:Z:406:ASN:HD22	1.68	0.41
1:b:691:ARG:NH1	1:b:695:GLU:HG2	2.36	0.41
1:d:355:SER:HB2	1:d:357:HIS:CD2	2.56	0.41
1:g:285:ARG:NH2	1:g:612:GLN:HB2	2.35	0.41
1:h:340:GLN:O	1:h:646:ILE:HA	2.21	0.41
1:j:355:SER:HB2	1:j:357:HIS:CD2	2.56	0.41
1:k:340:GLN:O	1:k:646:ILE:HA	2.21	0.41
1:k:352:VAL:H	1:k:643:GLN:NE2	2.18	0.41
1:k:353:LEU:HD23	1:k:643:GLN:HE21	1.85	0.41
1:l:352:VAL:H	1:l:643:GLN:NE2	2.18	0.41
1:l:403:ARG:H	1:l:406:ASN:HD22	1.68	0.41
1:m:226:ASN:HD22	1:s:401:MET:H	1.68	0.41
1:m:603:VAL:HG12	1:n:625[B]:HIS:HD2	1.85	0.41
1:t:318:GLN:HE22	1:6:337:SER:HA	1.86	0.41
1:v:401:MET:H	1:1:226:ASN:HD22	1.68	0.41
1:v:691:ARG:NH1	1:v:695:GLU:HG2	2.36	0.41
1:w:355:SER:HB2	1:w:357:HIS:CD2	2.56	0.41
1:x:355:SER:HB2	1:x:357:HIS:CD2	2.56	0.41
1:x:440:TYR:CE1	1:y:285:ARG:NH1	2.89	0.41
1:z:340:GLN:O	1:z:646:ILE:HA	2.21	0.41
1:z:353:LEU:HD23	1:z:643:GLN:HE21	1.84	0.41
1:z:377:LEU:HD21	1:2:435:PRO:HB3	2.01	0.41
1:8:352:VAL:H	1:8:643:GLN:NE2	2.18	0.41
1:8:403:ARG:H	1:8:406:ASN:HD22	1.68	0.41
1:A:340:GLN:O	1:A:646:ILE:HA	2.21	0.41
1:A:445:ASN:O	1:G:499:PRO:HG2	2.21	0.41
1:B:691:ARG:NH1	1:B:695:GLU:HG2	2.35	0.41
1:C:285:ARG:NH1	1:M:440:TYR:CE1	2.89	0.41
1:H:337:SER:HA	1:Z:318:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:401:MET:H	1:Z:226:ASN:HD22	1.67	0.41
1:I:318:GLN:NE2	1:J:337:SER:HA	2.36	0.41
1:I:352:VAL:H	1:I:643:GLN:NE2	2.18	0.41
1:K:285:ARG:NH2	1:K:612:GLN:HB2	2.35	0.41
1:K:318:GLN:HE22	1:L:337:SER:HA	1.86	0.41
1:L:353:LEU:HD23	1:L:643:GLN:HE21	1.85	0.41
1:M:340:GLN:O	1:M:646:ILE:HA	2.21	0.41
1:M:401:MET:H	1:c:226:ASN:HD22	1.69	0.41
1:O:318:GLN:NE2	1:P:337:SER:HA	2.36	0.41
1:O:352:VAL:H	1:O:643:GLN:NE2	2.18	0.41
1:T:401:MET:H	1:i:226:ASN:HD22	1.68	0.41
1:T:603:VAL:HG12	1:d:625[B]:HIS:HD2	1.85	0.41
1:U:285:ARG:NH2	1:U:612:GLN:HB2	2.35	0.41
1:X:318:GLN:NE2	1:Y:337:SER:HA	2.35	0.41
1:X:625[B]:HIS:HD2	1:e:603:VAL:HG12	1.85	0.41
1:a:603:VAL:HG12	1:8:625[B]:HIS:HD2	1.85	0.41
1:b:340:GLN:O	1:b:646:ILE:HA	2.21	0.41
1:e:422:SER:HA	1:e:726:THR:HG23	2.03	0.41
1:f:340:GLN:O	1:f:646:ILE:HA	2.21	0.41
1:f:562:GLU:HG3	1:h:388:ARG:NH2	2.34	0.41
1:g:285:ARG:NH1	1:h:440:TYR:CE1	2.89	0.41
1:g:422:SER:HA	1:g:726:THR:HG23	2.03	0.41
1:j:337:SER:HA	1:l:318:GLN:NE2	2.36	0.41
1:p:577:VAL:O	1:p:590:THR:OG1	2.33	0.41
1:q:403:ARG:H	1:q:406:ASN:HD22	1.68	0.41
1:q:422:SER:HA	1:q:726:THR:HG23	2.03	0.41
1:q:691:ARG:NH1	1:q:695:GLU:HG2	2.36	0.41
1:r:353:LEU:HA	1:r:353:LEU:HD13	1.66	0.41
1:r:355:SER:HB2	1:r:357:HIS:CD2	2.56	0.41
1:r:435:PRO:HB3	1:s:377:LEU:HD21	2.01	0.41
1:s:285:ARG:NH2	1:s:612:GLN:HB2	2.35	0.41
1:u:318:GLN:NE2	1:2:337:SER:HA	2.36	0.41
1:u:337:SER:HA	1:5:318:GLN:HE22	1.86	0.41
1:v:340:GLN:O	1:v:646:ILE:HA	2.21	0.41
1:w:476:LEU:HD23	1:x:631:LEU:CD1	2.51	0.41
1:x:228[A]:HIS:O	1:x:243:THR:OG1	2.25	0.41
1:x:352:VAL:H	1:x:643:GLN:NE2	2.18	0.41
1:2:318:GLN:HE22	1:3:337:SER:HA	1.86	0.41
1:2:355:SER:HB2	1:2:357:HIS:CD2	2.56	0.41
1:2:691:ARG:NH1	1:2:695:GLU:HG2	2.35	0.41
1:5:337:SER:HA	1:8:318:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:355:SER:HB2	1:6:357:HIS:CD2	2.56	0.41
1:8:691:ARG:NH1	1:8:695:GLU:HG2	2.36	0.41
1:A:388:ARG:NH2	1:I:562:GLU:HG3	2.33	0.41
1:A:494:ASN:HA	1:I:584:SER:HA	2.03	0.41
1:B:625[B]:HIS:HD2	1:L:603:VAL:HG12	1.85	0.41
1:D:224:SER:HG	1:D:316:ASN:H	1.67	0.41
1:D:355:SER:HB2	1:D:357:HIS:CD2	2.56	0.41
1:F:353:LEU:HA	1:F:353:LEU:HD13	1.66	0.41
1:J:352:VAL:H	1:J:643:GLN:NE2	2.18	0.41
1:J:355:SER:HB2	1:J:357:HIS:CD2	2.56	0.41
1:K:340:GLN:O	1:K:646:ILE:HA	2.21	0.41
1:L:340:GLN:O	1:L:646:ILE:HA	2.21	0.41
1:L:422:SER:HA	1:L:726:THR:HG23	2.03	0.41
1:N:340:GLN:O	1:N:646:ILE:HA	2.21	0.41
1:O:631:LEU:CD1	1:n:476:LEU:HD23	2.51	0.41
1:Q:353:LEU:HD23	1:Q:643:GLN:HE21	1.85	0.41
1:Q:403:ARG:H	1:Q:406:ASN:HD22	1.68	0.41
1:R:422:SER:HA	1:R:726:THR:HG23	2.03	0.41
1:S:435:PRO:HB3	1:U:377:LEU:HD21	2.01	0.41
1:T:337:SER:HA	1:i:318:GLN:NE2	2.36	0.41
1:V:340:GLN:O	1:V:646:ILE:HA	2.21	0.41
1:W:403:ARG:H	1:W:406:ASN:HD22	1.68	0.41
1:Y:364:PHE:HA	1:Y:365:PRO:HD3	1.96	0.41
1:Z:584:SER:HA	1:4:494:ASN:HA	2.02	0.41
1:Z:617:ALA:HB3	1:Z:630:PRO:HG3	2.01	0.41
1:Z:691:ARG:NH1	1:Z:695:GLU:HG2	2.36	0.41
1:c:422:SER:HA	1:c:726:THR:HG23	2.03	0.41
1:d:476:LEU:HD23	1:l:631:LEU:CD1	2.51	0.41
1:g:403:ARG:H	1:g:406:ASN:HD22	1.68	0.41
1:g:691:ARG:NH1	1:g:695:GLU:HG2	2.35	0.41
1:j:476:LEU:HD23	1:k:631:LEU:CD1	2.51	0.41
1:j:603:VAL:HG12	1:k:625[B]:HIS:HD2	1.85	0.41
1:k:285:ARG:NH2	1:k:612:GLN:HB2	2.35	0.41
1:o:355:SER:HB2	1:o:357:HIS:CD2	2.56	0.41
1:p:355:SER:HB2	1:p:357:HIS:CD2	2.56	0.41
1:p:422:SER:HA	1:p:726:THR:HG23	2.03	0.41
1:t:337:SER:HA	1:y:318:GLN:HE22	1.86	0.41
1:u:285:ARG:NH2	1:u:612:GLN:HB2	2.35	0.41
1:w:353:LEU:HD13	1:w:353:LEU:HA	1.66	0.41
1:x:422:SER:HA	1:x:726:THR:HG23	2.03	0.41
1:z:352:VAL:H	1:z:643:GLN:NE2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:422:SER:HA	1:z:726:THR:HG23	2.03	0.41
1:1:228[B]:HIS:O	1:1:243:THR:OG1	2.27	0.41
1:1:617:ALA:HB3	1:1:630:PRO:HG3	2.01	0.41
1:1:691:ARG:NH1	1:1:695:GLU:HG2	2.36	0.41
1:2:352:VAL:H	1:2:643:GLN:NE2	2.18	0.41
1:7:422:SER:HA	1:7:726:THR:HG23	2.03	0.41
1:A:318:GLN:NE2	1:E:337:SER:HA	2.36	0.41
1:A:562:GLU:HG3	1:G:388:ARG:NH2	2.34	0.41
1:B:228[B]:HIS:O	1:B:243:THR:OG1	2.27	0.41
1:C:285:ARG:HD3	1:C:360:CYS:HB2	2.03	0.41
1:C:337:SER:HA	1:D:318:GLN:HE22	1.86	0.41
1:C:337:SER:HA	1:D:318:GLN:NE2	2.36	0.41
1:C:403:ARG:H	1:C:406:ASN:HD22	1.68	0.41
1:C:422:SER:HA	1:C:726:THR:HG23	2.03	0.41
1:C:476:LEU:HD23	1:b:631:LEU:CD1	2.51	0.41
1:C:691:ARG:NH1	1:C:695:GLU:HG2	2.36	0.41
1:D:298:LEU:HD21	1:D:305:PHE:CD2	2.56	0.41
1:D:353:LEU:HD23	1:D:643:GLN:HE21	1.85	0.41
1:D:625[B]:HIS:HD2	1:P:603:VAL:HG12	1.85	0.41
1:D:631:LEU:CD1	1:P:476:LEU:HD23	2.51	0.41
1:E:298:LEU:HD21	1:E:305:PHE:CD2	2.56	0.41
1:E:499:PRO:HG2	1:F:445:ASN:O	2.21	0.41
1:E:625[A]:HIS:HD2	1:E:628:PRO:HD3	1.86	0.41
1:F:353:LEU:HD23	1:F:643:GLN:HE21	1.85	0.41
1:H:337:SER:HA	1:Z:318:GLN:HE22	1.86	0.41
1:H:340:GLN:O	1:H:646:ILE:HA	2.21	0.41
1:I:285:ARG:HD3	1:I:360:CYS:HB2	2.03	0.41
1:I:285:ARG:NH2	1:I:612:GLN:HB2	2.35	0.41
1:I:691:ARG:NH1	1:I:695:GLU:HG2	2.35	0.41
1:J:435:PRO:HB3	1:L:377:LEU:HD21	2.01	0.41
1:J:476:LEU:HD23	1:L:631:LEU:CD1	2.51	0.41
1:L:352:VAL:H	1:L:643:GLN:NE2	2.18	0.41
1:L:625[A]:HIS:HD2	1:L:628:PRO:HD3	1.86	0.41
1:M:355:SER:HB2	1:M:357:HIS:CD2	2.56	0.41
1:M:388:ARG:NH2	1:b:562:GLU:HG3	2.34	0.41
1:M:487:SER:O	1:M:493:ASN:ND2	2.41	0.41
1:N:318:GLN:NE2	1:m:337:SER:HA	2.36	0.41
1:N:403:ARG:H	1:N:406:ASN:HD22	1.68	0.41
1:N:691:ARG:NH1	1:N:695:GLU:HG2	2.36	0.41
1:P:226:ASN:HD22	1:Q:401:MET:H	1.69	0.41
1:Q:351:TYR:CZ	1:Q:353:LEU:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:403:ARG:H	1:R:406:ASN:HD22	1.68	0.41
1:S:254:HIS:HD2	1:S:650:PRO:HG3	1.86	0.41
1:S:353:LEU:HD23	1:S:643:GLN:HE21	1.85	0.41
1:T:353:LEU:HD23	1:T:643:GLN:HE21	1.84	0.41
1:T:403:ARG:H	1:T:406:ASN:HD22	1.68	0.41
1:U:298:LEU:HD21	1:U:305:PHE:CD2	2.56	0.41
1:V:298:LEU:HD21	1:V:305:PHE:CD2	2.56	0.41
1:V:355:SER:HB2	1:V:357:HIS:CD2	2.56	0.41
1:V:422:SER:HA	1:V:726:THR:HG23	2.03	0.41
1:V:499:PRO:HG2	1:X:445:ASN:O	2.21	0.41
1:W:352:VAL:H	1:W:643:GLN:NE2	2.18	0.41
1:W:353:LEU:HD23	1:W:643:GLN:HE21	1.85	0.41
1:W:584:SER:HA	1:Y:494:ASN:HA	2.01	0.41
1:X:353:LEU:HD23	1:X:643:GLN:HE21	1.85	0.41
1:Y:422:SER:HA	1:Y:726:THR:HG23	2.03	0.41
1:Z:254:HIS:HD2	1:Z:650:PRO:HG3	1.86	0.41
1:Z:337:SER:HA	1:a:318:GLN:HE22	1.86	0.41
1:Z:353:LEU:HD23	1:Z:643:GLN:HE21	1.85	0.41
1:c:603:VAL:HG12	1:o:625[B]:HIS:HD2	1.85	0.41
1:e:226:ASN:HD22	1:h:401:MET:H	1.69	0.41
1:f:337:SER:HA	1:z:318:GLN:HE22	1.86	0.41
1:f:494:ASN:HA	1:g:584:SER:HA	2.01	0.41
1:f:625[A]:HIS:HD2	1:f:628:PRO:HD3	1.86	0.41
1:f:631:LEU:CD1	1:g:476:LEU:HD23	2.51	0.41
1:g:285:ARG:HD3	1:g:360:CYS:HB2	2.03	0.41
1:g:401:MET:H	1:k:226:ASN:HD22	1.68	0.41
1:h:355:SER:HB2	1:h:357:HIS:CD2	2.56	0.41
1:i:340:GLN:O	1:i:646:ILE:HA	2.21	0.41
1:i:403:ARG:H	1:i:406:ASN:HD22	1.68	0.41
1:j:226:ASN:HD22	1:x:401:MET:H	1.68	0.41
1:k:355:SER:HB2	1:k:357:HIS:CD2	2.56	0.41
1:l:401:MET:H	1:n:226:ASN:HD22	1.68	0.41
1:m:353:LEU:HD23	1:m:643:GLN:HE21	1.85	0.41
1:m:403:ARG:H	1:m:406:ASN:HD22	1.68	0.41
1:o:353:LEU:HD23	1:o:643:GLN:HE21	1.85	0.41
1:p:298:LEU:HD21	1:p:305:PHE:CD2	2.56	0.41
1:r:254:HIS:HD2	1:r:650:PRO:HG3	1.86	0.41
1:r:691:ARG:NH1	1:r:695:GLU:HG2	2.35	0.41
1:s:298:LEU:HD21	1:s:305:PHE:CD2	2.56	0.41
1:s:340:GLN:O	1:s:646:ILE:HA	2.21	0.41
1:t:254:HIS:HD2	1:t:650:PRO:HG3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:494:ASN:HA	1:v:584:SER:HA	2.02	0.41
1:u:285:ARG:HD3	1:u:360:CYS:HB2	2.03	0.41
1:u:691:ARG:NH1	1:u:695:GLU:HG2	2.35	0.41
1:w:340:GLN:O	1:w:646:ILE:HA	2.21	0.41
1:w:499:PRO:HG2	1:y:445:ASN:O	2.21	0.41
1:w:625[A]:HIS:HD2	1:w:628:PRO:HD3	1.86	0.41
1:x:340:GLN:O	1:x:646:ILE:HA	2.21	0.41
1:x:353:LEU:HD23	1:x:643:GLN:HE21	1.84	0.41
1:x:403:ARG:H	1:x:406:ASN:HD22	1.68	0.41
1:x:603:VAL:HG12	1:y:625[B]:HIS:HD2	1.85	0.41
1:y:353:LEU:HD23	1:y:643:GLN:HE21	1.85	0.41
1:z:603:VAL:HG12	1:1:625[B]:HIS:HD2	1.85	0.41
1:z:631:LEU:CD1	1:2:476:LEU:HD23	2.51	0.41
1:1:355:SER:HB2	1:1:357:HIS:CD2	2.56	0.41
1:3:318:GLN:HE22	1:8:337:SER:HA	1.86	0.41
1:4:340:GLN:O	1:4:646:ILE:HA	2.21	0.41
1:4:355:SER:HB2	1:4:357:HIS:CD2	2.56	0.41
1:5:298:LEU:HD21	1:5:305:PHE:CD2	2.56	0.41
1:5:340:GLN:O	1:5:646:ILE:HA	2.21	0.41
1:5:625[A]:HIS:HD2	1:5:628:PRO:HD3	1.86	0.41
1:6:352:VAL:H	1:6:643:GLN:NE2	2.18	0.41
1:6:403:ARG:H	1:6:406:ASN:HD22	1.68	0.41
1:7:355:SER:HB2	1:7:357:HIS:CD2	2.56	0.41
1:8:254:HIS:HD2	1:8:650:PRO:HG3	1.86	0.41
1:8:353:LEU:HD23	1:8:643:GLN:HE21	1.85	0.41
1:8:422:SER:HA	1:8:726:THR:HG23	2.03	0.41
1:8:617:ALA:HB3	1:8:630:PRO:HG3	2.01	0.41
1:A:285:ARG:HD3	1:A:360:CYS:HB2	2.03	0.41
1:A:422:SER:HA	1:A:726:THR:HG23	2.03	0.41
1:B:355:SER:HB2	1:B:357:HIS:CD2	2.56	0.41
1:D:285:ARG:NH1	1:P:440:TYR:CE1	2.89	0.41
1:E:340:GLN:O	1:E:646:ILE:HA	2.21	0.41
1:E:422:SER:HA	1:E:726:THR:HG23	2.03	0.41
1:E:603:VAL:HG12	1:Q:625[B]:HIS:HD2	1.85	0.41
1:F:625[B]:HIS:HD2	1:Q:603:VAL:HG12	1.85	0.41
1:G:254:HIS:HD2	1:G:650:PRO:HG3	1.86	0.41
1:G:285:ARG:HD3	1:G:360:CYS:HB2	2.03	0.41
1:G:318:GLN:NE2	1:W:337:SER:HA	2.36	0.41
1:G:340:GLN:O	1:G:646:ILE:HA	2.21	0.41
1:G:691:ARG:NH1	1:G:695:GLU:HG2	2.35	0.41
1:H:298:LEU:HD21	1:H:305:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:476:LEU:HD23	1:W:631:LEU:CD1	2.51	0.41
1:H:625[A]:HIS:HD2	1:H:628:PRO:HD3	1.86	0.41
1:K:355:SER:HB2	1:K:357:HIS:CD2	2.56	0.41
1:K:476:LEU:HD23	1:a:631:LEU:CD1	2.51	0.41
1:L:318:GLN:HE22	1:b:337:SER:HA	1.86	0.41
1:L:355:SER:HB2	1:L:357:HIS:CD2	2.56	0.41
1:M:298:LEU:HD21	1:M:305:PHE:CD2	2.56	0.41
1:N:285:ARG:HD3	1:N:360:CYS:HB2	2.03	0.41
1:N:355:SER:HB2	1:N:357:HIS:CD2	2.56	0.41
1:N:625[A]:HIS:HD2	1:N:628:PRO:HD3	1.86	0.41
1:O:401:MET:H	1:d:226:ASN:HD22	1.68	0.41
1:O:422:SER:HA	1:O:726:THR:HG23	2.03	0.41
1:P:298:LEU:HD21	1:P:305:PHE:CD2	2.56	0.41
1:Q:340:GLN:O	1:Q:646:ILE:HA	2.21	0.41
1:R:298:LEU:HD21	1:R:305:PHE:CD2	2.56	0.41
1:R:352:VAL:H	1:R:643:GLN:NE2	2.18	0.41
1:R:631:LEU:CD1	1:U:476:LEU:HD23	2.51	0.41
1:S:298:LEU:HD21	1:S:305:PHE:CD2	2.56	0.41
1:T:691:ARG:NH1	1:T:695:GLU:HG2	2.36	0.41
1:U:340:GLN:O	1:U:646:ILE:HA	2.21	0.41
1:V:337:SER:HA	1:W:318:GLN:NE2	2.36	0.41
1:V:481:TYR:O	1:V:521:MET:HE1	2.21	0.41
1:X:355:SER:HB2	1:X:357:HIS:CD2	2.56	0.41
1:X:625[A]:HIS:HD2	1:X:628:PRO:HD3	1.87	0.41
1:Y:351:TYR:CZ	1:Y:353:LEU:HB2	2.56	0.41
1:a:298:LEU:HD21	1:a:305:PHE:CD2	2.56	0.41
1:a:352:VAL:H	1:a:643:GLN:NE2	2.18	0.41
1:b:298:LEU:HD21	1:b:305:PHE:CD2	2.56	0.41
1:b:625[A]:HIS:HD2	1:b:628:PRO:HD3	1.86	0.41
1:d:422:SER:HA	1:d:726:THR:HG23	2.03	0.41
1:d:625[A]:HIS:HD2	1:d:628:PRO:HD3	1.86	0.41
1:f:298:LEU:HD21	1:f:305:PHE:CD2	2.56	0.41
1:g:337:SER:HA	1:k:318:GLN:HE22	1.86	0.41
1:h:285:ARG:HD3	1:h:360:CYS:HB2	2.03	0.41
1:h:422:SER:HA	1:h:726:THR:HG23	2.03	0.41
1:i:355:SER:HB2	1:i:357:HIS:CD2	2.56	0.41
1:i:691:ARG:NH1	1:i:695:GLU:HG2	2.36	0.41
1:j:298:LEU:HD21	1:j:305:PHE:CD2	2.56	0.41
1:j:318:GLN:NE2	1:x:337:SER:HA	2.36	0.41
1:j:440:TYR:CE1	1:k:285:ARG:NH1	2.89	0.41
1:k:298:LEU:HD21	1:k:305:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:481:TYR:O	1:k:521:MET:HE1	2.22	0.41
1:m:298:LEU:HD21	1:m:305:PHE:CD2	2.56	0.41
1:n:422:SER:HA	1:n:726:THR:HG23	2.03	0.41
1:o:440:TYR:CE1	1:p:285:ARG:NH1	2.89	0.41
1:o:445:ASN:O	1:p:499:PRO:HG2	2.21	0.41
1:o:625[A]:HIS:HD2	1:o:628:PRO:HD3	1.86	0.41
1:p:481:TYR:O	1:p:521:MET:HE1	2.21	0.41
1:q:340:GLN:O	1:q:646:ILE:HA	2.21	0.41
1:q:352:VAL:H	1:q:643:GLN:NE2	2.18	0.41
1:q:625[A]:HIS:HD2	1:q:628:PRO:HD3	1.86	0.41
1:q:631:LEU:CD1	1:s:476:LEU:HD23	2.51	0.41
1:r:298:LEU:HD21	1:r:305:PHE:CD2	2.56	0.41
1:r:364:PHE:HA	1:r:365:PRO:HD3	1.96	0.41
1:t:285:ARG:HD3	1:t:360:CYS:HB2	2.03	0.41
1:v:285:ARG:HD3	1:v:360:CYS:HB2	2.03	0.41
1:w:298:LEU:HD21	1:w:305:PHE:CD2	2.56	0.41
1:x:351:TYR:CZ	1:x:353:LEU:HB2	2.56	0.41
1:z:254:HIS:HD2	1:z:650:PRO:HG3	1.86	0.41
1:z:355:SER:HB2	1:z:357:HIS:CD2	2.56	0.41
1:z:625[A]:HIS:HD2	1:z:628:PRO:HD3	1.86	0.41
1:1:285:ARG:HD3	1:1:360:CYS:HB2	2.03	0.41
1:1:440:TYR:CE1	1:2:285:ARG:NH1	2.89	0.41
1:3:298:LEU:HD21	1:3:305:PHE:CD2	2.56	0.41
1:3:631:LEU:CD1	1:4:476:LEU:HD23	2.51	0.41
1:4:353:LEU:HD23	1:4:643:GLN:HE21	1.84	0.41
1:5:476:LEU:HD23	1:6:631:LEU:CD1	2.51	0.41
1:6:353:LEU:HD23	1:6:643:GLN:HE21	1.85	0.41
1:6:584:SER:HA	1:7:494:ASN:HA	2.01	0.41
1:7:351:TYR:CZ	1:7:353:LEU:HB2	2.56	0.41
1:A:285:ARG:NH1	1:I:440:TYR:CE1	2.89	0.40
1:A:376:TYR:HH	1:A:392:TYR:H	1.67	0.40
1:B:285:ARG:HD3	1:B:360:CYS:HB2	2.03	0.40
1:B:285:ARG:NH1	1:L:440:TYR:CE1	2.89	0.40
1:B:631:LEU:CD1	1:L:476:LEU:HD23	2.51	0.40
1:C:355:SER:HB2	1:C:357:HIS:CD2	2.56	0.40
1:C:401:MET:H	1:D:226:ASN:HD22	1.68	0.40
1:C:584:SER:HA	1:b:494:ASN:HA	2.01	0.40
1:D:285:ARG:HD3	1:D:360:CYS:HB2	2.03	0.40
1:D:337:SER:HA	1:E:318:GLN:HE22	1.86	0.40
1:D:481:TYR:O	1:D:521:MET:HE1	2.22	0.40
1:F:337:SER:HA	1:R:318:GLN:HE22	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:440:TYR:CE1	1:I:285:ARG:NH1	2.90	0.40
1:I:422:SER:HA	1:I:726:THR:HG23	2.03	0.40
1:L:254:HIS:HD2	1:L:650:PRO:HG3	1.86	0.40
1:L:351:TYR:CZ	1:L:353:LEU:HB2	2.56	0.40
1:L:481:TYR:O	1:L:521:MET:HE1	2.21	0.40
1:M:285:ARG:HD3	1:M:360:CYS:HB2	2.03	0.40
1:M:352:VAL:H	1:M:643:GLN:NE2	2.18	0.40
1:M:422:SER:HA	1:M:726:THR:HG23	2.03	0.40
1:O:340:GLN:O	1:O:646:ILE:HA	2.21	0.40
1:R:340:GLN:O	1:R:646:ILE:HA	2.21	0.40
1:R:476:LEU:HD23	1:S:631:LEU:CD1	2.51	0.40
1:R:625[A]:HIS:HD2	1:R:628:PRO:HD3	1.86	0.40
1:S:351:TYR:CZ	1:S:353:LEU:HB2	2.56	0.40
1:S:691:ARG:NH1	1:S:695:GLU:HG2	2.36	0.40
1:T:285:ARG:HD3	1:T:360:CYS:HB2	2.03	0.40
1:T:298:LEU:HD21	1:T:305:PHE:CD2	2.56	0.40
1:V:285:ARG:NH1	1:X:440:TYR:CE1	2.89	0.40
1:X:285:ARG:NH1	1:e:440:TYR:CE1	2.89	0.40
1:Y:355:SER:HB2	1:Y:357:HIS:CD2	2.56	0.40
1:Z:340:GLN:O	1:Z:646:ILE:HA	2.21	0.40
1:Z:422:SER:HA	1:Z:726:THR:HG23	2.03	0.40
1:a:351:TYR:CZ	1:a:353:LEU:HB2	2.56	0.40
1:b:226:ASN:HD22	1:o:401:MET:H	1.69	0.40
1:b:254:HIS:HD2	1:b:650:PRO:HG3	1.86	0.40
1:d:298:LEU:HD21	1:d:305:PHE:CD2	2.56	0.40
1:f:337:SER:HA	1:z:318:GLN:NE2	2.36	0.40
1:g:337:SER:HA	1:k:318:GLN:NE2	2.36	0.40
1:g:355:SER:HB2	1:g:357:HIS:CD2	2.56	0.40
1:h:298:LEU:HD21	1:h:305:PHE:CD2	2.56	0.40
1:h:352:VAL:H	1:h:643:GLN:NE2	2.18	0.40
1:i:285:ARG:HD3	1:i:360:CYS:HB2	2.03	0.40
1:i:285:ARG:NH1	1:k:440:TYR:CE1	2.90	0.40
1:i:422:SER:HA	1:i:726:THR:HG23	2.03	0.40
1:i:625[A]:HIS:HD2	1:i:628:PRO:HD3	1.87	0.40
1:k:285:ARG:HD3	1:k:360:CYS:HB2	2.03	0.40
1:l:340:GLN:O	1:l:646:ILE:HA	2.21	0.40
1:l:422:SER:HA	1:l:726:THR:HG23	2.03	0.40
1:m:285:ARG:HD3	1:m:360:CYS:HB2	2.03	0.40
1:m:691:ARG:NH1	1:m:695:GLU:HG2	2.36	0.40
1:n:298:LEU:HD21	1:n:305:PHE:CD2	2.56	0.40
1:n:625[A]:HIS:HD2	1:n:628:PRO:HD3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:337:SER:HA	1:6:318:GLN:NE2	2.36	0.40
1:q:285:ARG:HD3	1:q:360:CYS:HB2	2.03	0.40
1:q:298:LEU:HD21	1:q:305:PHE:CD2	2.56	0.40
1:q:318:GLN:HE22	1:y:337:SER:HA	1.87	0.40
1:q:351:TYR:CZ	1:q:353:LEU:HB2	2.56	0.40
1:q:476:LEU:HD23	1:r:631:LEU:CD1	2.51	0.40
1:r:353:LEU:HD23	1:r:643:GLN:HE21	1.85	0.40
1:t:318:GLN:NE2	1:6:337:SER:HA	2.36	0.40
1:t:340:GLN:O	1:t:646:ILE:HA	2.21	0.40
1:t:499:PRO:HG2	1:v:445:ASN:O	2.21	0.40
1:u:440:TYR:CE1	1:v:285:ARG:NH1	2.89	0.40
1:v:422:SER:HA	1:v:726:THR:HG23	2.03	0.40
1:v:481:TYR:O	1:v:521:MET:HE1	2.22	0.40
1:w:422:SER:HA	1:w:726:THR:HG23	2.03	0.40
1:z:351:TYR:CZ	1:z:353:LEU:HB2	2.56	0.40
1:z:481:TYR:O	1:z:521:MET:HE1	2.21	0.40
1:1:481:TYR:O	1:1:521:MET:HE1	2.22	0.40
1:3:351:TYR:CZ	1:3:353:LEU:HB2	2.57	0.40
1:3:352:VAL:H	1:3:643:GLN:NE2	2.18	0.40
1:5:422:SER:HA	1:5:726:THR:HG23	2.03	0.40
1:5:440:TYR:CE1	1:6:285:ARG:NH1	2.89	0.40
1:8:340:GLN:O	1:8:646:ILE:HA	2.21	0.40
1:A:481:TYR:O	1:A:521:MET:HE1	2.22	0.40
1:B:440:TYR:CE1	1:J:285:ARG:NH1	2.89	0.40
1:B:481:TYR:O	1:B:521:MET:HE1	2.22	0.40
1:D:440:TYR:CE1	1:N:285:ARG:NH1	2.90	0.40
1:E:440:TYR:CE1	1:Q:285:ARG:NH1	2.90	0.40
1:F:318:GLN:HE22	1:G:337:SER:HA	1.86	0.40
1:G:351:TYR:CZ	1:G:353:LEU:HB2	2.57	0.40
1:G:481:TYR:O	1:G:521:MET:HE1	2.21	0.40
1:H:285:ARG:HD3	1:H:360:CYS:HB2	2.03	0.40
1:H:440:TYR:CE1	1:W:285:ARG:NH1	2.89	0.40
1:K:337:SER:HA	1:7:318:GLN:NE2	2.36	0.40
1:L:226:ASN:HD22	1:b:401:MET:H	1.68	0.40
1:L:298:LEU:HD21	1:L:305:PHE:CD2	2.56	0.40
1:L:318:GLN:NE2	1:b:337:SER:HA	2.36	0.40
1:M:691:ARG:NH1	1:M:695:GLU:HG2	2.35	0.40
1:N:422:SER:HA	1:N:726:THR:HG23	2.03	0.40
1:N:440:TYR:CE1	1:P:285:ARG:NH1	2.89	0.40
1:O:364:PHE:HA	1:O:365:PRO:HD3	1.96	0.40
1:O:625[B]:HIS:HD2	1:n:603:VAL:HG12	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:318:GLN:NE2	1:Q:337:SER:HA	2.36	0.40
1:P:340:GLN:O	1:P:646:ILE:HA	2.21	0.40
1:T:625[A]:HIS:HD2	1:T:628:PRO:HD3	1.86	0.40
1:V:494:ASN:HA	1:X:584:SER:HA	2.03	0.40
1:X:298:LEU:HD21	1:X:305:PHE:CD2	2.56	0.40
1:Y:318:GLN:NE2	1:4:337:SER:HA	2.36	0.40
1:b:481:TYR:O	1:b:521:MET:HE1	2.21	0.40
1:c:487:SER:O	1:c:493:ASN:ND2	2.41	0.40
1:d:340:GLN:O	1:d:646:ILE:HA	2.21	0.40
1:d:603:VAL:HG12	1:l:625[B]:HIS:HD2	1.85	0.40
1:e:285:ARG:HD3	1:e:360:CYS:HB2	2.03	0.40
1:f:481:TYR:O	1:f:521:MET:HE1	2.21	0.40
1:h:351:TYR:CZ	1:h:353:LEU:HB2	2.56	0.40
1:j:340:GLN:O	1:j:646:ILE:HA	2.21	0.40
1:k:337:SER:HA	1:w:318:GLN:HE22	1.86	0.40
1:m:625[A]:HIS:HD2	1:m:628:PRO:HD3	1.86	0.40
1:o:298:LEU:HD21	1:o:305:PHE:CD2	2.56	0.40
1:o:584:SER:HA	1:p:494:ASN:HA	2.03	0.40
1:q:285:ARG:NH1	1:s:440:TYR:CE1	2.89	0.40
1:r:351:TYR:CZ	1:r:353:LEU:HB2	2.57	0.40
1:t:351:TYR:CZ	1:t:353:LEU:HB2	2.56	0.40
1:t:440:TYR:CE1	1:u:285:ARG:NH1	2.90	0.40
1:t:691:ARG:NH1	1:t:695:GLU:HG2	2.36	0.40
1:w:603:VAL:HG12	1:x:625[B]:HIS:HD2	1.86	0.40
1:x:625[A]:HIS:HD2	1:x:628:PRO:HD3	1.86	0.40
1:y:625[A]:HIS:HD2	1:y:628:PRO:HD3	1.86	0.40
1:5:285:ARG:NH1	1:7:440:TYR:CE1	2.89	0.40
1:A:337:SER:HA	1:B:318:GLN:NE2	2.36	0.40
1:A:584:SER:HA	1:G:494:ASN:HA	2.02	0.40
1:B:340:GLN:O	1:B:646:ILE:HA	2.21	0.40
1:C:298:LEU:HD21	1:C:305:PHE:CD2	2.56	0.40
1:C:631:LEU:CD1	1:M:476:LEU:HD23	2.50	0.40
1:D:422:SER:HA	1:D:726:THR:HG23	2.03	0.40
1:E:285:ARG:HD3	1:E:360:CYS:HB2	2.03	0.40
1:E:494:ASN:HA	1:F:584:SER:HA	2.03	0.40
1:F:351:TYR:CZ	1:F:353:LEU:HB2	2.56	0.40
1:G:352:VAL:H	1:G:643:GLN:NE2	2.18	0.40
1:H:285:ARG:NH1	1:Y:440:TYR:CE1	2.89	0.40
1:H:422:SER:HA	1:H:726:THR:HG23	2.03	0.40
1:I:351:TYR:CZ	1:I:353:LEU:HB2	2.56	0.40
1:I:355:SER:HB2	1:I:357:HIS:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:422:SER:HA	1:J:726:THR:HG23	2.03	0.40
1:K:353:LEU:HD23	1:K:643:GLN:HE21	1.84	0.40
1:K:481:TYR:O	1:K:521:MET:HE1	2.21	0.40
1:M:285:ARG:NH1	1:b:440:TYR:CE1	2.89	0.40
1:M:337:SER:HA	1:c:318:GLN:NE2	2.37	0.40
1:M:351:TYR:CZ	1:M:353:LEU:HB2	2.56	0.40
1:M:625[A]:HIS:HD2	1:M:628:PRO:HD3	1.86	0.40
1:N:476:LEU:HD23	1:P:631:LEU:CD1	2.51	0.40
1:O:476:LEU:HD23	1:m:631:LEU:CD1	2.51	0.40
1:P:351:TYR:CZ	1:P:353:LEU:HB2	2.56	0.40
1:Q:298:LEU:HD21	1:Q:305:PHE:CD2	2.56	0.40
1:Q:625[A]:HIS:HD2	1:Q:628:PRO:HD3	1.86	0.40
1:R:285:ARG:HD3	1:R:360:CYS:HB2	2.03	0.40
1:R:285:ARG:NH1	1:U:440:TYR:CE1	2.89	0.40
1:R:351:TYR:CZ	1:R:353:LEU:HB2	2.57	0.40
1:S:625[A]:HIS:HD2	1:S:628:PRO:HD3	1.86	0.40
1:T:318:GLN:NE2	1:U:337:SER:HA	2.36	0.40
1:T:476:LEU:HD23	1:d:631:LEU:CD1	2.51	0.40
1:U:228[A]:HIS:O	1:U:243:THR:OG1	2.25	0.40
1:U:318:GLN:NE2	1:e:337:SER:HA	2.36	0.40
1:W:625[A]:HIS:HD2	1:W:628:PRO:HD3	1.86	0.40
1:X:223:SER:H	1:Y:406:ASN:ND2	2.19	0.40
1:X:401:MET:H	1:f:226:ASN:HD22	1.69	0.40
1:Y:298:LEU:HD21	1:Y:305:PHE:CD2	2.56	0.40
1:Y:481:TYR:O	1:Y:521:MET:HE1	2.22	0.40
1:Y:625[A]:HIS:HD2	1:Y:628:PRO:HD3	1.86	0.40
1:Z:625[B]:HIS:HD2	1:3:603:VAL:HG12	1.85	0.40
1:a:476:LEU:HD23	1:8:631:LEU:CD1	2.51	0.40
1:a:691:ARG:NH1	1:a:695:GLU:HG2	2.36	0.40
1:c:285:ARG:HD3	1:c:360:CYS:HB2	2.03	0.40
1:c:337:SER:HA	1:s:318:GLN:NE2	2.36	0.40
1:c:351:TYR:CZ	1:c:353:LEU:HB2	2.57	0.40
1:c:440:TYR:CE1	1:o:285:ARG:NH1	2.89	0.40
1:e:318:GLN:NE2	1:h:337:SER:HA	2.37	0.40
1:f:401:MET:H	1:z:226:ASN:HD22	1.68	0.40
1:h:625[A]:HIS:HD2	1:h:628:PRO:HD3	1.86	0.40
1:i:440:TYR:CE1	1:j:285:ARG:NH1	2.89	0.40
1:j:401:MET:H	1:l:226:ASN:HD22	1.68	0.40
1:l:337:SER:HA	1:n:318:GLN:NE2	2.37	0.40
1:t:352:VAL:H	1:t:643:GLN:NE2	2.18	0.40
1:t:481:TYR:O	1:t:521:MET:HE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:355:SER:HB2	1:u:357:HIS:CD2	2.56	0.40
1:u:422:SER:HA	1:u:726:THR:HG23	2.03	0.40
1:w:352:VAL:H	1:w:643:GLN:NE2	2.18	0.40
1:w:440:TYR:CE1	1:x:285:ARG:NH1	2.90	0.40
1:w:445:ASN:O	1:x:499:PRO:HG2	2.22	0.40
1:w:494:ASN:HA	1:y:584:SER:HA	2.03	0.40
1:x:298:LEU:HD21	1:x:305:PHE:CD2	2.56	0.40
1:y:351:TYR:CZ	1:y:353:LEU:HB2	2.56	0.40
1:z:298:LEU:HD21	1:z:305:PHE:CD2	2.56	0.40
1:z:337:SER:HA	1:4:318:GLN:NE2	2.36	0.40
1:z:440:TYR:CE1	1:1:285:ARG:NH1	2.89	0.40
1:z:476:LEU:HD23	1:1:631:LEU:CD1	2.51	0.40
1:3:625[A]:HIS:HD2	1:3:628:PRO:HD3	1.86	0.40
1:5:285:ARG:HD3	1:5:360:CYS:HB2	2.03	0.40
1:7:481:TYR:O	1:7:521:MET:HE1	2.22	0.40
1:8:355:SER:HB2	1:8:357:HIS:CD2	2.56	0.40
1:A:298:LEU:HD21	1:A:305:PHE:CD2	2.56	0.40
1:D:625[A]:HIS:HD2	1:D:628:PRO:HD3	1.86	0.40
1:E:445:ASN:O	1:Q:499:PRO:HG2	2.22	0.40
1:F:376:TYR:HH	1:F:392:TYR:H	1.67	0.40
1:F:481:TYR:O	1:F:521:MET:HE1	2.22	0.40
1:F:625[A]:HIS:HD2	1:F:628:PRO:HD3	1.86	0.40
1:G:603:VAL:HG12	1:I:625[B]:HIS:HD2	1.85	0.40
1:I:287:HIS:HD2	1:I:612:GLN:CB	2.35	0.40
1:I:298:LEU:HD21	1:I:305:PHE:CD2	2.56	0.40
1:J:298:LEU:HD21	1:J:305:PHE:CD2	2.56	0.40
1:K:631:LEU:CD1	1:8:476:LEU:HD23	2.51	0.40
1:M:631:LEU:CD1	1:b:476:LEU:HD23	2.51	0.40
1:N:298:LEU:HD21	1:N:305:PHE:CD2	2.56	0.40
1:O:226:ASN:HD22	1:P:401:MET:H	1.68	0.40
1:O:318:GLN:HE22	1:P:337:SER:HA	1.86	0.40
1:O:337:SER:HA	1:d:318:GLN:NE2	2.37	0.40
1:O:691:ARG:NH1	1:O:695:GLU:HG2	2.36	0.40
1:Q:285:ARG:HD3	1:Q:360:CYS:HB2	2.03	0.40
1:R:355:SER:HB2	1:R:357:HIS:CD2	2.56	0.40
1:S:364:PHE:HA	1:S:365:PRO:HD3	1.96	0.40
1:V:351:TYR:CZ	1:V:353:LEU:HB2	2.56	0.40
1:W:351:TYR:CZ	1:W:353:LEU:HB2	2.56	0.40
1:X:631:LEU:CD1	1:e:476:LEU:HD23	2.51	0.40
1:Z:355:SER:HB2	1:Z:357:HIS:CD2	2.56	0.40
1:a:625[A]:HIS:HD2	1:a:628:PRO:HD3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:318:GLN:HE22	1:o:337:SER:HA	1.86	0.40
1:b:355:SER:HB2	1:b:357:HIS:CD2	2.56	0.40
1:e:351:TYR:CZ	1:e:353:LEU:HB2	2.57	0.40
1:e:355:SER:HB2	1:e:357:HIS:CD2	2.56	0.40
1:f:440:TYR:CE1	1:h:285:ARG:NH1	2.89	0.40
1:g:298:LEU:HD21	1:g:305:PHE:CD2	2.56	0.40
1:g:631:LEU:CD1	1:h:476:LEU:HD23	2.50	0.40
1:h:481:TYR:O	1:h:521:MET:HE1	2.21	0.40
1:h:691:ARG:NH1	1:h:695:GLU:HG2	2.36	0.40
1:i:298:LEU:HD21	1:i:305:PHE:CD2	2.56	0.40
1:i:476:LEU:HD23	1:j:631:LEU:CD1	2.51	0.40
1:j:351:TYR:CZ	1:j:353:LEU:HB2	2.56	0.40
1:l:625[A]:HIS:HD2	1:l:628:PRO:HD3	1.86	0.40
1:m:318:GLN:NE2	1:s:337:SER:HA	2.36	0.40
1:m:476:LEU:HD23	1:n:631:LEU:CD1	2.51	0.40
1:n:337:SER:HA	1:r:318:GLN:HE22	1.86	0.40
1:n:352:VAL:H	1:n:643:GLN:NE2	2.18	0.40
1:o:223:SER:H	1:7:406:ASN:ND2	2.19	0.40
1:r:476:LEU:HD23	1:s:631:LEU:CD1	2.51	0.40
1:r:625[A]:HIS:HD2	1:r:628:PRO:HD3	1.86	0.40
1:s:691:ARG:NH1	1:s:695:GLU:HG2	2.36	0.40
1:t:476:LEU:HD23	1:u:631:LEU:CD1	2.51	0.40
1:t:603:VAL:HG12	1:u:625[B]:HIS:HD2	1.85	0.40
1:y:376:TYR:HH	1:y:392:TYR:H	1.67	0.40
1:y:481:TYR:O	1:y:521:MET:HE1	2.22	0.40
1:1:340:GLN:O	1:1:646:ILE:HA	2.21	0.40
1:2:318:GLN:NE2	1:3:337:SER:HA	2.36	0.40
1:2:422:SER:HA	1:2:726:THR:HG23	2.03	0.40
1:3:318:GLN:NE2	1:8:337:SER:HA	2.36	0.40
1:5:497:ASN:HA	1:7:447:THR:OG1	2.22	0.40
1:6:625[A]:HIS:HD2	1:6:628:PRO:HD3	1.86	0.40
1:7:298:LEU:HD21	1:7:305:PHE:CD2	2.56	0.40
1:7:625[A]:HIS:HD2	1:7:628:PRO:HD3	1.86	0.40
1:A:440:TYR:CE1	1:G:285:ARG:NH1	2.89	0.40
1:B:337:SER:HA	1:C:318:GLN:NE2	2.36	0.40
1:B:337:SER:HA	1:C:318:GLN:HE22	1.86	0.40
1:B:625[A]:HIS:HD2	1:B:628:PRO:HD3	1.86	0.40
1:E:351:TYR:CZ	1:E:353:LEU:HB2	2.57	0.40
1:E:352:VAL:H	1:E:643:GLN:NE2	2.18	0.40
1:F:282:ASP:OD1	1:F:282:ASP:N	2.55	0.40
1:F:285:ARG:HD3	1:F:360:CYS:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:476:LEU:HD23	1:I:631:LEU:CD1	2.51	0.40
1:I:340:GLN:O	1:I:646:ILE:HA	2.21	0.40
1:I:481:TYR:O	1:I:521:MET:HE1	2.21	0.40
1:J:318:GLN:NE2	1:a:337:SER:HA	2.36	0.40
1:J:353:LEU:HD23	1:J:643:GLN:HE21	1.84	0.40
1:J:440:TYR:CE1	1:L:285:ARG:NH1	2.89	0.40
1:N:447:THR:OG1	1:P:497:ASN:HA	2.22	0.40
1:O:351:TYR:CZ	1:O:353:LEU:HB2	2.56	0.40
1:O:631:LEU:HD23	1:O:631:LEU:HA	1.94	0.40
1:P:481:TYR:O	1:P:521:MET:HE1	2.22	0.40
1:Q:226:ASN:HD22	1:S:401:MET:H	1.68	0.40
1:R:337:SER:HA	1:V:318:GLN:NE2	2.36	0.40
1:S:318:GLN:HE22	1:d:337:SER:HA	1.86	0.40
1:T:340:GLN:O	1:T:646:ILE:HA	2.21	0.40
1:T:577:VAL:O	1:T:590:THR:OG1	2.33	0.40
1:T:631:LEU:CD1	1:l:476:LEU:HD23	2.51	0.40
1:V:285:ARG:HD3	1:V:360:CYS:HB2	2.03	0.40
1:X:337:SER:HA	1:f:318:GLN:HE22	1.87	0.40
1:X:481:TYR:O	1:X:521:MET:HE1	2.21	0.40
1:Z:351:TYR:CZ	1:Z:353:LEU:HB2	2.56	0.40
1:a:422:SER:HA	1:a:726:THR:HG23	2.03	0.40
1:b:351:TYR:CZ	1:b:353:LEU:HB2	2.56	0.40
1:c:287:HIS:HD2	1:c:612:GLN:CB	2.35	0.40
1:c:355:SER:HB2	1:c:357:HIS:CD2	2.56	0.40
1:f:351:TYR:CZ	1:f:353:LEU:HB2	2.57	0.40
1:f:476:LEU:HD23	1:h:631:LEU:CD1	2.51	0.40
1:g:318:GLN:NE2	1:l:337:SER:HA	2.36	0.40
1:k:422:SER:HA	1:k:726:THR:HG23	2.03	0.40
1:l:298:LEU:HD21	1:l:305:PHE:CD2	2.56	0.40
1:l:351:TYR:CZ	1:l:353:LEU:HB2	2.56	0.40
1:l:691:ARG:NH1	1:l:695:GLU:HG2	2.36	0.40
1:m:340:GLN:O	1:m:646:ILE:HA	2.21	0.40
1:n:340:GLN:O	1:n:646:ILE:HA	2.21	0.40
1:p:285:ARG:HD3	1:p:360:CYS:HB2	2.03	0.40
1:q:226:ASN:HD22	1:y:401:MET:H	1.68	0.40
1:r:481:TYR:O	1:r:521:MET:HE1	2.22	0.40
1:u:287:HIS:HD2	1:u:612:GLN:CB	2.35	0.40
1:u:351:TYR:CZ	1:u:353:LEU:HB2	2.56	0.40
1:u:625[A]:HIS:HD2	1:u:628:PRO:HD3	1.86	0.40
1:v:298:LEU:HD21	1:v:305:PHE:CD2	2.56	0.40
1:w:254:HIS:HD2	1:w:650:PRO:HG3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:285:ARG:HD3	1:w:360:CYS:HB2	2.03	0.40
1:x:285:ARG:HD3	1:x:360:CYS:HB2	2.03	0.40
1:y:282:ASP:OD1	1:y:282:ASP:N	2.55	0.40
1:y:285:ARG:HD3	1:y:360:CYS:HB2	2.03	0.40
1:2:353:LEU:HD23	1:2:643:GLN:HE21	1.84	0.40
1:3:422:SER:HA	1:3:726:THR:HG23	2.03	0.40
1:3:691:ARG:NH1	1:3:695:GLU:HG2	2.36	0.40
1:6:351:TYR:CZ	1:6:353:LEU:HB2	2.56	0.40
1:8:351:TYR:CZ	1:8:353:LEU:HB2	2.56	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	2	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	3	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	4	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	5	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	6	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	7	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	8	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	A	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	B	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	C	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	D	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	E	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	G	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	H	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	I	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	J	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	K	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	L	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	M	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	N	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	O	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	P	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	Q	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	R	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	S	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	T	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	U	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	V	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	W	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	X	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	Y	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	Z	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	a	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	b	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	c	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	d	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	e	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	f	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	g	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	h	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	i	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	j	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	k	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	l	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	m	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	n	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	o	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	p	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	q	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	r	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	s	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	t	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	u	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	v	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	w	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	x	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	y	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
1	z	518/517 (100%)	507 (98%)	10 (2%)	1 (0%)	44	77
All	All	31080/31020 (100%)	30420 (98%)	600 (2%)	60 (0%)	45	77

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	628	PRO
1	B	628	PRO
1	C	628	PRO
1	D	628	PRO
1	E	628	PRO
1	F	628	PRO
1	G	628	PRO
1	H	628	PRO
1	I	628	PRO
1	J	628	PRO
1	K	628	PRO
1	L	628	PRO
1	M	628	PRO
1	N	628	PRO
1	O	628	PRO

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Mol	Chain	Res	Type
1	P	628	PRO
1	Q	628	PRO
1	R	628	PRO
1	S	628	PRO
1	T	628	PRO
1	U	628	PRO
1	V	628	PRO
1	W	628	PRO
1	X	628	PRO
1	Y	628	PRO
1	Z	628	PRO
1	a	628	PRO
1	b	628	PRO
1	c	628	PRO
1	d	628	PRO
1	e	628	PRO
1	f	628	PRO
1	g	628	PRO
1	h	628	PRO
1	i	628	PRO
1	j	628	PRO
1	k	628	PRO
1	l	628	PRO
1	m	628	PRO
1	n	628	PRO
1	o	628	PRO
1	p	628	PRO
1	q	628	PRO
1	r	628	PRO
1	s	628	PRO
1	t	628	PRO
1	u	628	PRO
1	v	628	PRO
1	w	628	PRO
1	x	628	PRO
1	y	628	PRO
1	z	628	PRO
1	1	628	PRO
1	2	628	PRO
1	3	628	PRO
1	4	628	PRO
1	5	628	PRO

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Mol	Chain	Res	Type
1	6	628	PRO
1	7	628	PRO
1	8	628	PRO

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	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	2	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	3	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	4	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	5	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	6	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	7	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	8	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	A	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	B	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	C	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	D	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	E	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	F	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	G	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	H	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	I	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	J	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	K	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	L	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	M	458/455 (101%)	457 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	N	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	O	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	P	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	Q	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	R	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	S	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	T	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	U	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	V	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	W	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	X	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	Y	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	Z	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	a	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	b	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	c	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	d	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	e	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	f	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	g	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	h	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	i	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	j	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	k	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	l	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	m	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	n	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	o	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	p	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	q	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	r	458/455 (101%)	457 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	s	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	t	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	u	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	v	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	w	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	x	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	y	458/455 (101%)	457 (100%)	1 (0%)	92	97
1	z	458/455 (101%)	457 (100%)	1 (0%)	92	97
All	All	27480/27300 (101%)	27420 (100%)	60 (0%)	91	97

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	622	THR
1	B	622	THR
1	C	622	THR
1	D	622	THR
1	E	622	THR
1	F	622	THR
1	G	622	THR
1	H	622	THR
1	I	622	THR
1	J	622	THR
1	K	622	THR
1	L	622	THR
1	M	622	THR
1	N	622	THR
1	O	622	THR
1	P	622	THR
1	Q	622	THR
1	R	622	THR
1	S	622	THR
1	T	622	THR
1	U	622	THR
1	V	622	THR
1	W	622	THR
1	X	622	THR
1	Y	622	THR
1	Z	622	THR

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Mol	Chain	Res	Type
1	a	622	THR
1	b	622	THR
1	c	622	THR
1	d	622	THR
1	e	622	THR
1	f	622	THR
1	g	622	THR
1	h	622	THR
1	i	622	THR
1	j	622	THR
1	k	622	THR
1	l	622	THR
1	m	622	THR
1	n	622	THR
1	o	622	THR
1	p	622	THR
1	q	622	THR
1	r	622	THR
1	s	622	THR
1	t	622	THR
1	u	622	THR
1	v	622	THR
1	w	622	THR
1	x	622	THR
1	y	622	THR
1	z	622	THR
1	1	622	THR
1	2	622	THR
1	3	622	THR
1	4	622	THR
1	5	622	THR
1	6	622	THR
1	7	622	THR
1	8	622	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1072) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	226	ASN
1	A	289	HIS
1	A	318	GLN
1	A	348	GLN

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Mol	Chain	Res	Type
1	A	406	ASN
1	A	427	GLN
1	A	454	GLN
1	A	455	GLN
1	A	507	HIS
1	A	524	HIS
1	A	535	HIS
1	A	549	ASN
1	A	582	GLN
1	A	605	GLN
1	A	621	HIS
1	A	627	HIS
1	A	643	GLN
1	A	715	ASN
1	B	226	ASN
1	B	289	HIS
1	B	318	GLN
1	B	348	GLN
1	B	406	ASN
1	B	427	GLN
1	B	454	GLN
1	B	455	GLN
1	B	507	HIS
1	B	524	HIS
1	B	535	HIS
1	B	549	ASN
1	B	582	GLN
1	B	605	GLN
1	B	621	HIS
1	B	627	HIS
1	B	643	GLN
1	B	715	ASN
1	C	226	ASN
1	C	289	HIS
1	C	318	GLN
1	C	348	GLN
1	C	406	ASN
1	C	427	GLN
1	C	454	GLN
1	C	455	GLN
1	C	507	HIS
1	C	524	HIS

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Mol	Chain	Res	Type
1	C	535	HIS
1	C	549	ASN
1	C	582	GLN
1	C	605	GLN
1	C	621	HIS
1	C	627	HIS
1	C	643	GLN
1	C	715	ASN
1	D	226	ASN
1	D	289	HIS
1	D	318	GLN
1	D	348	GLN
1	D	406	ASN
1	D	427	GLN
1	D	454	GLN
1	D	455	GLN
1	D	507	HIS
1	D	524	HIS
1	D	535	HIS
1	D	549	ASN
1	D	582	GLN
1	D	605	GLN
1	D	621	HIS
1	D	627	HIS
1	D	643	GLN
1	D	715	ASN
1	E	226	ASN
1	E	289	HIS
1	E	318	GLN
1	E	348	GLN
1	E	406	ASN
1	E	427	GLN
1	E	454	GLN
1	E	455	GLN
1	E	507	HIS
1	E	524	HIS
1	E	535	HIS
1	E	549	ASN
1	E	582	GLN
1	E	605	GLN
1	E	621	HIS
1	E	627	HIS

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Mol	Chain	Res	Type
1	E	643	GLN
1	F	226	ASN
1	F	289	HIS
1	F	316	ASN
1	F	318	GLN
1	F	348	GLN
1	F	406	ASN
1	F	427	GLN
1	F	454	GLN
1	F	455	GLN
1	F	507	HIS
1	F	524	HIS
1	F	535	HIS
1	F	549	ASN
1	F	582	GLN
1	F	605	GLN
1	F	621	HIS
1	F	627	HIS
1	F	643	GLN
1	F	715	ASN
1	G	226	ASN
1	G	289	HIS
1	G	318	GLN
1	G	348	GLN
1	G	406	ASN
1	G	427	GLN
1	G	454	GLN
1	G	455	GLN
1	G	507	HIS
1	G	524	HIS
1	G	535	HIS
1	G	549	ASN
1	G	582	GLN
1	G	605	GLN
1	G	621	HIS
1	G	627	HIS
1	G	643	GLN
1	G	715	ASN
1	H	226	ASN
1	H	289	HIS
1	H	318	GLN
1	H	348	GLN

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Mol	Chain	Res	Type
1	H	406	ASN
1	H	427	GLN
1	H	454	GLN
1	H	455	GLN
1	H	507	HIS
1	H	524	HIS
1	H	535	HIS
1	H	549	ASN
1	H	582	GLN
1	H	605	GLN
1	H	621	HIS
1	H	627	HIS
1	H	643	GLN
1	H	715	ASN
1	I	226	ASN
1	I	289	HIS
1	I	318	GLN
1	I	348	GLN
1	I	406	ASN
1	I	427	GLN
1	I	454	GLN
1	I	455	GLN
1	I	507	HIS
1	I	524	HIS
1	I	535	HIS
1	I	549	ASN
1	I	582	GLN
1	I	605	GLN
1	I	621	HIS
1	I	627	HIS
1	I	643	GLN
1	J	226	ASN
1	J	289	HIS
1	J	318	GLN
1	J	348	GLN
1	J	406	ASN
1	J	427	GLN
1	J	454	GLN
1	J	455	GLN
1	J	507	HIS
1	J	524	HIS
1	J	535	HIS

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Mol	Chain	Res	Type
1	J	549	ASN
1	J	582	GLN
1	J	605	GLN
1	J	621	HIS
1	J	627	HIS
1	J	643	GLN
1	J	715	ASN
1	K	226	ASN
1	K	289	HIS
1	K	318	GLN
1	K	348	GLN
1	K	406	ASN
1	K	427	GLN
1	K	454	GLN
1	K	455	GLN
1	K	507	HIS
1	K	524	HIS
1	K	535	HIS
1	K	549	ASN
1	K	582	GLN
1	K	605	GLN
1	K	621	HIS
1	K	627	HIS
1	K	643	GLN
1	K	715	ASN
1	L	226	ASN
1	L	289	HIS
1	L	318	GLN
1	L	348	GLN
1	L	406	ASN
1	L	427	GLN
1	L	454	GLN
1	L	455	GLN
1	L	507	HIS
1	L	524	HIS
1	L	535	HIS
1	L	549	ASN
1	L	582	GLN
1	L	605	GLN
1	L	621	HIS
1	L	627	HIS
1	L	643	GLN

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Mol	Chain	Res	Type
1	L	715	ASN
1	M	226	ASN
1	M	289	HIS
1	M	318	GLN
1	M	348	GLN
1	M	406	ASN
1	M	427	GLN
1	M	454	GLN
1	M	455	GLN
1	M	507	HIS
1	M	524	HIS
1	M	535	HIS
1	M	549	ASN
1	M	582	GLN
1	M	605	GLN
1	M	621	HIS
1	M	627	HIS
1	M	643	GLN
1	N	226	ASN
1	N	289	HIS
1	N	318	GLN
1	N	348	GLN
1	N	406	ASN
1	N	427	GLN
1	N	454	GLN
1	N	455	GLN
1	N	507	HIS
1	N	524	HIS
1	N	535	HIS
1	N	549	ASN
1	N	582	GLN
1	N	605	GLN
1	N	621	HIS
1	N	627	HIS
1	N	643	GLN
1	N	715	ASN
1	O	226	ASN
1	O	254	HIS
1	O	289	HIS
1	O	318	GLN
1	O	348	GLN
1	O	406	ASN

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Mol	Chain	Res	Type
1	O	427	GLN
1	O	454	GLN
1	O	455	GLN
1	O	507	HIS
1	O	524	HIS
1	O	535	HIS
1	O	549	ASN
1	O	582	GLN
1	O	605	GLN
1	O	621	HIS
1	O	627	HIS
1	O	643	GLN
1	O	715	ASN
1	P	226	ASN
1	P	289	HIS
1	P	318	GLN
1	P	348	GLN
1	P	406	ASN
1	P	427	GLN
1	P	454	GLN
1	P	455	GLN
1	P	507	HIS
1	P	524	HIS
1	P	535	HIS
1	P	549	ASN
1	P	582	GLN
1	P	605	GLN
1	P	621	HIS
1	P	627	HIS
1	P	643	GLN
1	Q	226	ASN
1	Q	289	HIS
1	Q	318	GLN
1	Q	348	GLN
1	Q	406	ASN
1	Q	427	GLN
1	Q	454	GLN
1	Q	455	GLN
1	Q	507	HIS
1	Q	524	HIS
1	Q	535	HIS
1	Q	549	ASN

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Mol	Chain	Res	Type
1	Q	582	GLN
1	Q	605	GLN
1	Q	621	HIS
1	Q	627	HIS
1	Q	643	GLN
1	R	226	ASN
1	R	289	HIS
1	R	316	ASN
1	R	318	GLN
1	R	348	GLN
1	R	406	ASN
1	R	427	GLN
1	R	454	GLN
1	R	455	GLN
1	R	507	HIS
1	R	524	HIS
1	R	535	HIS
1	R	549	ASN
1	R	582	GLN
1	R	605	GLN
1	R	621	HIS
1	R	627	HIS
1	R	643	GLN
1	R	715	ASN
1	S	226	ASN
1	S	289	HIS
1	S	318	GLN
1	S	348	GLN
1	S	406	ASN
1	S	427	GLN
1	S	454	GLN
1	S	455	GLN
1	S	507	HIS
1	S	524	HIS
1	S	535	HIS
1	S	549	ASN
1	S	582	GLN
1	S	605	GLN
1	S	621	HIS
1	S	627	HIS
1	S	643	GLN
1	S	715	ASN

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Mol	Chain	Res	Type
1	T	226	ASN
1	T	289	HIS
1	T	318	GLN
1	T	348	GLN
1	T	406	ASN
1	T	427	GLN
1	T	454	GLN
1	T	455	GLN
1	T	507	HIS
1	T	524	HIS
1	T	535	HIS
1	T	549	ASN
1	T	582	GLN
1	T	605	GLN
1	T	621	HIS
1	T	627	HIS
1	T	643	GLN
1	U	226	ASN
1	U	289	HIS
1	U	318	GLN
1	U	348	GLN
1	U	406	ASN
1	U	427	GLN
1	U	454	GLN
1	U	455	GLN
1	U	507	HIS
1	U	524	HIS
1	U	535	HIS
1	U	549	ASN
1	U	582	GLN
1	U	605	GLN
1	U	621	HIS
1	U	627	HIS
1	U	643	GLN
1	V	226	ASN
1	V	289	HIS
1	V	318	GLN
1	V	348	GLN
1	V	406	ASN
1	V	427	GLN
1	V	454	GLN
1	V	455	GLN

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Mol	Chain	Res	Type
1	V	507	HIS
1	V	524	HIS
1	V	535	HIS
1	V	549	ASN
1	V	582	GLN
1	V	605	GLN
1	V	621	HIS
1	V	627	HIS
1	V	643	GLN
1	V	715	ASN
1	W	226	ASN
1	W	289	HIS
1	W	318	GLN
1	W	348	GLN
1	W	406	ASN
1	W	427	GLN
1	W	454	GLN
1	W	455	GLN
1	W	507	HIS
1	W	524	HIS
1	W	535	HIS
1	W	549	ASN
1	W	582	GLN
1	W	605	GLN
1	W	621	HIS
1	W	627	HIS
1	W	643	GLN
1	X	226	ASN
1	X	289	HIS
1	X	318	GLN
1	X	348	GLN
1	X	406	ASN
1	X	427	GLN
1	X	454	GLN
1	X	455	GLN
1	X	507	HIS
1	X	524	HIS
1	X	535	HIS
1	X	549	ASN
1	X	582	GLN
1	X	605	GLN
1	X	621	HIS

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Mol	Chain	Res	Type
1	X	627	HIS
1	X	643	GLN
1	X	715	ASN
1	Y	226	ASN
1	Y	289	HIS
1	Y	318	GLN
1	Y	348	GLN
1	Y	406	ASN
1	Y	427	GLN
1	Y	454	GLN
1	Y	455	GLN
1	Y	507	HIS
1	Y	524	HIS
1	Y	535	HIS
1	Y	549	ASN
1	Y	582	GLN
1	Y	605	GLN
1	Y	621	HIS
1	Y	627	HIS
1	Y	643	GLN
1	Y	715	ASN
1	Z	226	ASN
1	Z	289	HIS
1	Z	316	ASN
1	Z	318	GLN
1	Z	348	GLN
1	Z	406	ASN
1	Z	427	GLN
1	Z	454	GLN
1	Z	455	GLN
1	Z	507	HIS
1	Z	524	HIS
1	Z	535	HIS
1	Z	549	ASN
1	Z	582	GLN
1	Z	605	GLN
1	Z	621	HIS
1	Z	627	HIS
1	Z	643	GLN
1	Z	715	ASN
1	a	226	ASN
1	a	289	HIS

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Mol	Chain	Res	Type
1	a	318	GLN
1	a	348	GLN
1	a	406	ASN
1	a	427	GLN
1	a	454	GLN
1	a	455	GLN
1	a	507	HIS
1	a	524	HIS
1	a	535	HIS
1	a	549	ASN
1	a	582	GLN
1	a	605	GLN
1	a	621	HIS
1	a	627	HIS
1	a	643	GLN
1	a	715	ASN
1	b	226	ASN
1	b	289	HIS
1	b	318	GLN
1	b	348	GLN
1	b	406	ASN
1	b	427	GLN
1	b	454	GLN
1	b	455	GLN
1	b	507	HIS
1	b	524	HIS
1	b	535	HIS
1	b	549	ASN
1	b	582	GLN
1	b	605	GLN
1	b	621	HIS
1	b	627	HIS
1	b	643	GLN
1	c	226	ASN
1	c	289	HIS
1	c	348	GLN
1	c	406	ASN
1	c	427	GLN
1	c	454	GLN
1	c	455	GLN
1	c	507	HIS
1	c	524	HIS

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Mol	Chain	Res	Type
1	c	535	HIS
1	c	549	ASN
1	c	582	GLN
1	c	605	GLN
1	c	621	HIS
1	c	627	HIS
1	c	643	GLN
1	c	715	ASN
1	d	226	ASN
1	d	289	HIS
1	d	316	ASN
1	d	318	GLN
1	d	348	GLN
1	d	406	ASN
1	d	427	GLN
1	d	454	GLN
1	d	455	GLN
1	d	507	HIS
1	d	524	HIS
1	d	535	HIS
1	d	549	ASN
1	d	582	GLN
1	d	605	GLN
1	d	621	HIS
1	d	627	HIS
1	d	643	GLN
1	e	226	ASN
1	e	289	HIS
1	e	348	GLN
1	e	406	ASN
1	e	427	GLN
1	e	454	GLN
1	e	455	GLN
1	e	507	HIS
1	e	524	HIS
1	e	535	HIS
1	e	549	ASN
1	e	582	GLN
1	e	605	GLN
1	e	621	HIS
1	e	627	HIS
1	e	643	GLN

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Mol	Chain	Res	Type
1	e	715	ASN
1	f	226	ASN
1	f	289	HIS
1	f	318	GLN
1	f	348	GLN
1	f	406	ASN
1	f	427	GLN
1	f	454	GLN
1	f	455	GLN
1	f	507	HIS
1	f	524	HIS
1	f	535	HIS
1	f	549	ASN
1	f	582	GLN
1	f	605	GLN
1	f	621	HIS
1	f	627	HIS
1	f	643	GLN
1	g	226	ASN
1	g	289	HIS
1	g	318	GLN
1	g	348	GLN
1	g	406	ASN
1	g	427	GLN
1	g	454	GLN
1	g	455	GLN
1	g	507	HIS
1	g	524	HIS
1	g	535	HIS
1	g	549	ASN
1	g	582	GLN
1	g	605	GLN
1	g	621	HIS
1	g	627	HIS
1	g	643	GLN
1	g	715	ASN
1	h	226	ASN
1	h	289	HIS
1	h	318	GLN
1	h	348	GLN
1	h	406	ASN
1	h	427	GLN

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Mol	Chain	Res	Type
1	h	454	GLN
1	h	455	GLN
1	h	507	HIS
1	h	524	HIS
1	h	535	HIS
1	h	549	ASN
1	h	582	GLN
1	h	605	GLN
1	h	621	HIS
1	h	627	HIS
1	h	643	GLN
1	i	226	ASN
1	i	289	HIS
1	i	318	GLN
1	i	348	GLN
1	i	406	ASN
1	i	427	GLN
1	i	454	GLN
1	i	455	GLN
1	i	507	HIS
1	i	524	HIS
1	i	535	HIS
1	i	549	ASN
1	i	582	GLN
1	i	605	GLN
1	i	621	HIS
1	i	627	HIS
1	i	643	GLN
1	i	715	ASN
1	j	226	ASN
1	j	289	HIS
1	j	318	GLN
1	j	348	GLN
1	j	406	ASN
1	j	427	GLN
1	j	454	GLN
1	j	455	GLN
1	j	507	HIS
1	j	524	HIS
1	j	535	HIS
1	j	549	ASN
1	j	582	GLN

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Mol	Chain	Res	Type
1	j	605	GLN
1	j	621	HIS
1	j	627	HIS
1	j	643	GLN
1	j	715	ASN
1	k	226	ASN
1	k	289	HIS
1	k	318	GLN
1	k	325	ASN
1	k	348	GLN
1	k	406	ASN
1	k	427	GLN
1	k	454	GLN
1	k	455	GLN
1	k	507	HIS
1	k	524	HIS
1	k	535	HIS
1	k	549	ASN
1	k	582	GLN
1	k	605	GLN
1	k	621	HIS
1	k	627	HIS
1	k	643	GLN
1	k	715	ASN
1	l	226	ASN
1	l	254	HIS
1	l	289	HIS
1	l	318	GLN
1	l	348	GLN
1	l	406	ASN
1	l	427	GLN
1	l	454	GLN
1	l	455	GLN
1	l	507	HIS
1	l	524	HIS
1	l	535	HIS
1	l	549	ASN
1	l	582	GLN
1	l	605	GLN
1	l	621	HIS
1	l	627	HIS
1	l	643	GLN

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Mol	Chain	Res	Type
1	l	715	ASN
1	m	226	ASN
1	m	289	HIS
1	m	318	GLN
1	m	348	GLN
1	m	406	ASN
1	m	427	GLN
1	m	454	GLN
1	m	455	GLN
1	m	507	HIS
1	m	524	HIS
1	m	535	HIS
1	m	549	ASN
1	m	582	GLN
1	m	605	GLN
1	m	621	HIS
1	m	627	HIS
1	m	643	GLN
1	n	226	ASN
1	n	289	HIS
1	n	316	ASN
1	n	318	GLN
1	n	348	GLN
1	n	406	ASN
1	n	427	GLN
1	n	454	GLN
1	n	455	GLN
1	n	507	HIS
1	n	524	HIS
1	n	535	HIS
1	n	549	ASN
1	n	582	GLN
1	n	605	GLN
1	n	621	HIS
1	n	627	HIS
1	n	643	GLN
1	o	226	ASN
1	o	289	HIS
1	o	318	GLN
1	o	348	GLN
1	o	406	ASN
1	o	427	GLN

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Mol	Chain	Res	Type
1	o	454	GLN
1	o	455	GLN
1	o	507	HIS
1	o	524	HIS
1	o	535	HIS
1	o	549	ASN
1	o	582	GLN
1	o	605	GLN
1	o	621	HIS
1	o	627	HIS
1	o	643	GLN
1	o	715	ASN
1	p	226	ASN
1	p	289	HIS
1	p	318	GLN
1	p	348	GLN
1	p	406	ASN
1	p	427	GLN
1	p	454	GLN
1	p	455	GLN
1	p	507	HIS
1	p	524	HIS
1	p	535	HIS
1	p	549	ASN
1	p	582	GLN
1	p	605	GLN
1	p	621	HIS
1	p	627	HIS
1	p	643	GLN
1	p	715	ASN
1	q	226	ASN
1	q	289	HIS
1	q	316	ASN
1	q	318	GLN
1	q	348	GLN
1	q	406	ASN
1	q	427	GLN
1	q	454	GLN
1	q	455	GLN
1	q	507	HIS
1	q	524	HIS
1	q	535	HIS

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Mol	Chain	Res	Type
1	q	549	ASN
1	q	582	GLN
1	q	605	GLN
1	q	621	HIS
1	q	627	HIS
1	q	643	GLN
1	q	715	ASN
1	r	226	ASN
1	r	289	HIS
1	r	318	GLN
1	r	348	GLN
1	r	406	ASN
1	r	427	GLN
1	r	454	GLN
1	r	455	GLN
1	r	507	HIS
1	r	524	HIS
1	r	535	HIS
1	r	549	ASN
1	r	582	GLN
1	r	605	GLN
1	r	621	HIS
1	r	627	HIS
1	r	643	GLN
1	r	715	ASN
1	s	226	ASN
1	s	289	HIS
1	s	318	GLN
1	s	348	GLN
1	s	406	ASN
1	s	427	GLN
1	s	454	GLN
1	s	455	GLN
1	s	507	HIS
1	s	524	HIS
1	s	535	HIS
1	s	549	ASN
1	s	582	GLN
1	s	605	GLN
1	s	621	HIS
1	s	627	HIS
1	s	643	GLN

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Mol	Chain	Res	Type
1	t	226	ASN
1	t	289	HIS
1	t	318	GLN
1	t	348	GLN
1	t	406	ASN
1	t	427	GLN
1	t	454	GLN
1	t	455	GLN
1	t	507	HIS
1	t	524	HIS
1	t	535	HIS
1	t	549	ASN
1	t	582	GLN
1	t	605	GLN
1	t	621	HIS
1	t	627	HIS
1	t	643	GLN
1	t	715	ASN
1	u	226	ASN
1	u	289	HIS
1	u	318	GLN
1	u	348	GLN
1	u	406	ASN
1	u	427	GLN
1	u	454	GLN
1	u	455	GLN
1	u	507	HIS
1	u	524	HIS
1	u	535	HIS
1	u	549	ASN
1	u	582	GLN
1	u	605	GLN
1	u	621	HIS
1	u	627	HIS
1	u	643	GLN
1	u	715	ASN
1	v	226	ASN
1	v	289	HIS
1	v	318	GLN
1	v	348	GLN
1	v	406	ASN
1	v	427	GLN

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Mol	Chain	Res	Type
1	v	454	GLN
1	v	455	GLN
1	v	507	HIS
1	v	524	HIS
1	v	535	HIS
1	v	549	ASN
1	v	582	GLN
1	v	605	GLN
1	v	621	HIS
1	v	627	HIS
1	v	643	GLN
1	v	715	ASN
1	w	226	ASN
1	w	289	HIS
1	w	318	GLN
1	w	348	GLN
1	w	406	ASN
1	w	427	GLN
1	w	454	GLN
1	w	455	GLN
1	w	507	HIS
1	w	524	HIS
1	w	535	HIS
1	w	549	ASN
1	w	582	GLN
1	w	605	GLN
1	w	621	HIS
1	w	627	HIS
1	w	643	GLN
1	x	226	ASN
1	x	289	HIS
1	x	318	GLN
1	x	348	GLN
1	x	406	ASN
1	x	427	GLN
1	x	454	GLN
1	x	455	GLN
1	x	507	HIS
1	x	524	HIS
1	x	535	HIS
1	x	549	ASN
1	x	582	GLN

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Mol	Chain	Res	Type
1	x	605	GLN
1	x	621	HIS
1	x	627	HIS
1	x	643	GLN
1	y	226	ASN
1	y	289	HIS
1	y	318	GLN
1	y	348	GLN
1	y	406	ASN
1	y	427	GLN
1	y	454	GLN
1	y	455	GLN
1	y	507	HIS
1	y	524	HIS
1	y	535	HIS
1	y	549	ASN
1	y	582	GLN
1	y	605	GLN
1	y	621	HIS
1	y	627	HIS
1	y	643	GLN
1	y	715	ASN
1	z	226	ASN
1	z	289	HIS
1	z	318	GLN
1	z	348	GLN
1	z	406	ASN
1	z	427	GLN
1	z	454	GLN
1	z	455	GLN
1	z	507	HIS
1	z	524	HIS
1	z	535	HIS
1	z	549	ASN
1	z	582	GLN
1	z	605	GLN
1	z	621	HIS
1	z	627	HIS
1	z	643	GLN
1	z	715	ASN
1	1	226	ASN
1	1	289	HIS

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Mol	Chain	Res	Type
1	1	318	GLN
1	1	348	GLN
1	1	406	ASN
1	1	427	GLN
1	1	454	GLN
1	1	455	GLN
1	1	507	HIS
1	1	524	HIS
1	1	535	HIS
1	1	549	ASN
1	1	582	GLN
1	1	605	GLN
1	1	621	HIS
1	1	627	HIS
1	1	643	GLN
1	1	715	ASN
1	2	226	ASN
1	2	289	HIS
1	2	316	ASN
1	2	318	GLN
1	2	348	GLN
1	2	406	ASN
1	2	427	GLN
1	2	454	GLN
1	2	455	GLN
1	2	507	HIS
1	2	524	HIS
1	2	535	HIS
1	2	549	ASN
1	2	582	GLN
1	2	605	GLN
1	2	621	HIS
1	2	627	HIS
1	2	643	GLN
1	2	715	ASN
1	3	226	ASN
1	3	289	HIS
1	3	318	GLN
1	3	348	GLN
1	3	406	ASN
1	3	427	GLN
1	3	454	GLN

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Mol	Chain	Res	Type
1	3	455	GLN
1	3	507	HIS
1	3	524	HIS
1	3	535	HIS
1	3	549	ASN
1	3	582	GLN
1	3	605	GLN
1	3	621	HIS
1	3	627	HIS
1	3	643	GLN
1	3	715	ASN
1	4	226	ASN
1	4	289	HIS
1	4	318	GLN
1	4	348	GLN
1	4	406	ASN
1	4	427	GLN
1	4	454	GLN
1	4	455	GLN
1	4	507	HIS
1	4	524	HIS
1	4	535	HIS
1	4	549	ASN
1	4	582	GLN
1	4	605	GLN
1	4	621	HIS
1	4	627	HIS
1	4	643	GLN
1	4	715	ASN
1	5	226	ASN
1	5	289	HIS
1	5	316	ASN
1	5	318	GLN
1	5	348	GLN
1	5	406	ASN
1	5	427	GLN
1	5	454	GLN
1	5	455	GLN
1	5	507	HIS
1	5	524	HIS
1	5	535	HIS
1	5	549	ASN

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Mol	Chain	Res	Type
1	5	582	GLN
1	5	605	GLN
1	5	621	HIS
1	5	627	HIS
1	5	643	GLN
1	5	715	ASN
1	6	226	ASN
1	6	289	HIS
1	6	318	GLN
1	6	348	GLN
1	6	406	ASN
1	6	427	GLN
1	6	454	GLN
1	6	455	GLN
1	6	507	HIS
1	6	524	HIS
1	6	535	HIS
1	6	549	ASN
1	6	582	GLN
1	6	605	GLN
1	6	621	HIS
1	6	627	HIS
1	6	643	GLN
1	7	226	ASN
1	7	289	HIS
1	7	318	GLN
1	7	348	GLN
1	7	406	ASN
1	7	427	GLN
1	7	454	GLN
1	7	455	GLN
1	7	507	HIS
1	7	524	HIS
1	7	535	HIS
1	7	549	ASN
1	7	582	GLN
1	7	605	GLN
1	7	621	HIS
1	7	627	HIS
1	7	643	GLN
1	7	715	ASN
1	8	226	ASN

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Mol	Chain	Res	Type
1	8	289	HIS
1	8	316	ASN
1	8	318	GLN
1	8	348	GLN
1	8	406	ASN
1	8	427	GLN
1	8	454	GLN
1	8	455	GLN
1	8	507	HIS
1	8	524	HIS
1	8	535	HIS
1	8	549	ASN
1	8	582	GLN
1	8	605	GLN
1	8	621	HIS
1	8	627	HIS
1	8	643	GLN
1	8	715	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

60 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the

expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	D5M	d	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	N	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	I	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	z	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	M	801	-	21,24,24	0.80	0	24,36,36	0.76	2 (8%)
2	D5M	5	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	i	801	-	21,24,24	0.80	0	24,36,36	0.75	1 (4%)
2	D5M	A	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	6	801	-	21,24,24	0.81	0	24,36,36	0.76	1 (4%)
2	D5M	R	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	H	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	Q	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	8	801	-	21,24,24	0.80	0	24,36,36	0.76	1 (4%)
2	D5M	E	801	-	21,24,24	0.80	0	24,36,36	0.76	1 (4%)
2	D5M	Y	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	r	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	a	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	B	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	O	801	-	21,24,24	0.81	0	24,36,36	0.76	2 (8%)
2	D5M	2	801	-	21,24,24	0.80	0	24,36,36	0.75	2 (8%)
2	D5M	l	801	-	21,24,24	0.81	0	24,36,36	0.76	2 (8%)
2	D5M	W	801	-	21,24,24	0.81	0	24,36,36	0.75	2 (8%)
2	D5M	o	801	-	21,24,24	0.80	0	24,36,36	0.75	1 (4%)
2	D5M	f	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	s	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	j	801	-	21,24,24	0.80	0	24,36,36	0.76	1 (4%)
2	D5M	K	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	c	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	V	801	-	21,24,24	0.81	0	24,36,36	0.76	2 (8%)
2	D5M	b	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	e	801	-	21,24,24	0.81	0	24,36,36	0.76	2 (8%)
2	D5M	k	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	4	801	-	21,24,24	0.80	0	24,36,36	0.75	2 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	D5M	J	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	P	801	-	21,24,24	0.80	0	24,36,36	0.76	1 (4%)
2	D5M	t	801	-	21,24,24	0.81	0	24,36,36	0.76	2 (8%)
2	D5M	q	801	-	21,24,24	0.80	0	24,36,36	0.75	1 (4%)
2	D5M	v	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	U	801	-	21,24,24	0.80	0	24,36,36	0.75	2 (8%)
2	D5M	h	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	T	801	-	21,24,24	0.81	0	24,36,36	0.76	1 (4%)
2	D5M	u	801	-	21,24,24	0.80	0	24,36,36	0.76	2 (8%)
2	D5M	7	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	p	801	-	21,24,24	0.80	0	24,36,36	0.76	1 (4%)
2	D5M	L	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	w	801	-	21,24,24	0.80	0	24,36,36	0.75	1 (4%)
2	D5M	X	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	n	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	F	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	x	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	3	801	-	21,24,24	0.80	0	24,36,36	0.75	1 (4%)
2	D5M	C	801	-	21,24,24	0.80	0	24,36,36	0.76	2 (8%)
2	D5M	y	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	m	801	-	21,24,24	0.81	0	24,36,36	0.76	2 (8%)
2	D5M	G	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	D	801	-	21,24,24	0.80	0	24,36,36	0.75	1 (4%)
2	D5M	1	801	-	21,24,24	0.80	0	24,36,36	0.75	1 (4%)
2	D5M	g	801	-	21,24,24	0.81	0	24,36,36	0.76	1 (4%)
2	D5M	S	801	-	21,24,24	0.81	0	24,36,36	0.75	1 (4%)
2	D5M	Z	801	-	21,24,24	0.81	0	24,36,36	0.76	1 (4%)

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	d	801	-	-	3/6/22/22	0/3/3/3
2	D5M	N	801	-	-	3/6/22/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	I	801	-	-	3/6/22/22	0/3/3/3
2	D5M	z	801	-	-	3/6/22/22	0/3/3/3
2	D5M	M	801	-	-	3/6/22/22	0/3/3/3
2	D5M	5	801	-	-	3/6/22/22	0/3/3/3
2	D5M	i	801	-	-	3/6/22/22	0/3/3/3
2	D5M	A	801	-	-	3/6/22/22	0/3/3/3
2	D5M	6	801	-	-	3/6/22/22	0/3/3/3
2	D5M	R	801	-	-	3/6/22/22	0/3/3/3
2	D5M	H	801	-	-	3/6/22/22	0/3/3/3
2	D5M	Q	801	-	-	3/6/22/22	0/3/3/3
2	D5M	8	801	-	-	3/6/22/22	0/3/3/3
2	D5M	E	801	-	-	3/6/22/22	0/3/3/3
2	D5M	Y	801	-	-	3/6/22/22	0/3/3/3
2	D5M	r	801	-	-	3/6/22/22	0/3/3/3
2	D5M	a	801	-	-	3/6/22/22	0/3/3/3
2	D5M	B	801	-	-	3/6/22/22	0/3/3/3
2	D5M	O	801	-	-	3/6/22/22	0/3/3/3
2	D5M	2	801	-	-	3/6/22/22	0/3/3/3
2	D5M	l	801	-	-	3/6/22/22	0/3/3/3
2	D5M	W	801	-	-	3/6/22/22	0/3/3/3
2	D5M	o	801	-	-	3/6/22/22	0/3/3/3
2	D5M	f	801	-	-	3/6/22/22	0/3/3/3
2	D5M	s	801	-	-	3/6/22/22	0/3/3/3
2	D5M	j	801	-	-	3/6/22/22	0/3/3/3
2	D5M	K	801	-	-	3/6/22/22	0/3/3/3
2	D5M	c	801	-	-	3/6/22/22	0/3/3/3
2	D5M	V	801	-	-	3/6/22/22	0/3/3/3
2	D5M	b	801	-	-	3/6/22/22	0/3/3/3
2	D5M	e	801	-	-	3/6/22/22	0/3/3/3
2	D5M	k	801	-	-	3/6/22/22	0/3/3/3
2	D5M	4	801	-	-	3/6/22/22	0/3/3/3
2	D5M	J	801	-	-	3/6/22/22	0/3/3/3
2	D5M	P	801	-	-	3/6/22/22	0/3/3/3
2	D5M	t	801	-	-	3/6/22/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	q	801	-	-	3/6/22/22	0/3/3/3
2	D5M	v	801	-	-	3/6/22/22	0/3/3/3
2	D5M	U	801	-	-	3/6/22/22	0/3/3/3
2	D5M	h	801	-	-	3/6/22/22	0/3/3/3
2	D5M	T	801	-	-	3/6/22/22	0/3/3/3
2	D5M	u	801	-	-	3/6/22/22	0/3/3/3
2	D5M	7	801	-	-	3/6/22/22	0/3/3/3
2	D5M	p	801	-	-	3/6/22/22	0/3/3/3
2	D5M	L	801	-	-	3/6/22/22	0/3/3/3
2	D5M	w	801	-	-	3/6/22/22	0/3/3/3
2	D5M	X	801	-	-	3/6/22/22	0/3/3/3
2	D5M	n	801	-	-	3/6/22/22	0/3/3/3
2	D5M	F	801	-	-	3/6/22/22	0/3/3/3
2	D5M	x	801	-	-	3/6/22/22	0/3/3/3
2	D5M	3	801	-	-	3/6/22/22	0/3/3/3
2	D5M	C	801	-	-	3/6/22/22	0/3/3/3
2	D5M	y	801	-	-	3/6/22/22	0/3/3/3
2	D5M	m	801	-	-	3/6/22/22	0/3/3/3
2	D5M	G	801	-	-	3/6/22/22	0/3/3/3
2	D5M	D	801	-	-	3/6/22/22	0/3/3/3
2	D5M	1	801	-	-	3/6/22/22	0/3/3/3
2	D5M	g	801	-	-	3/6/22/22	0/3/3/3
2	D5M	S	801	-	-	3/6/22/22	0/3/3/3
2	D5M	Z	801	-	-	3/6/22/22	0/3/3/3

There are no bond length outliers.

All (73) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	801	D5M	O2P-P-O1P	2.07	118.88	110.83
2	w	801	D5M	O2P-P-O1P	2.07	118.88	110.83
2	8	801	D5M	O2P-P-O1P	2.07	118.88	110.83
2	j	801	D5M	O2P-P-O1P	2.06	118.87	110.83
2	S	801	D5M	O2P-P-O1P	2.06	118.86	110.83
2	Y	801	D5M	O2P-P-O1P	2.06	118.86	110.83
2	i	801	D5M	O2P-P-O1P	2.06	118.85	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	h	801	D5M	O2P-P-O1P	2.05	118.84	110.83
2	J	801	D5M	O2P-P-O1P	2.05	118.84	110.83
2	W	801	D5M	O2P-P-O1P	2.05	118.84	110.83
2	r	801	D5M	O2P-P-O1P	2.05	118.84	110.83
2	5	801	D5M	O2P-P-O1P	2.05	118.84	110.83
2	X	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	c	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	o	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	H	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	N	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	7	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	q	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	z	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	g	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	P	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	M	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	Z	801	D5M	O2P-P-O1P	2.05	118.83	110.83
2	C	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	T	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	V	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	m	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	p	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	e	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	4	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	L	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	A	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	F	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	b	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	f	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	v	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	y	801	D5M	O2P-P-O1P	2.05	118.82	110.83
2	2	801	D5M	O2P-P-O1P	2.05	118.81	110.83
2	O	801	D5M	O2P-P-O1P	2.05	118.81	110.83
2	a	801	D5M	O2P-P-O1P	2.05	118.81	110.83
2	d	801	D5M	O2P-P-O1P	2.05	118.81	110.83
2	n	801	D5M	O2P-P-O1P	2.05	118.81	110.83
2	3	801	D5M	O2P-P-O1P	2.04	118.80	110.83
2	B	801	D5M	O2P-P-O1P	2.04	118.80	110.83
2	6	801	D5M	O2P-P-O1P	2.04	118.80	110.83
2	E	801	D5M	O2P-P-O1P	2.04	118.80	110.83
2	Q	801	D5M	O2P-P-O1P	2.04	118.80	110.83
2	x	801	D5M	O2P-P-O1P	2.04	118.80	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	l	801	D5M	O2P-P-O1P	2.04	118.80	110.83
2	t	801	D5M	O2P-P-O1P	2.04	118.79	110.83
2	I	801	D5M	O2P-P-O1P	2.04	118.79	110.83
2	K	801	D5M	O2P-P-O1P	2.04	118.79	110.83
2	u	801	D5M	O2P-P-O1P	2.04	118.79	110.83
2	U	801	D5M	O2P-P-O1P	2.04	118.78	110.83
2	l	801	D5M	O2P-P-O1P	2.04	118.78	110.83
2	k	801	D5M	O2P-P-O1P	2.04	118.78	110.83
2	s	801	D5M	O2P-P-O1P	2.04	118.78	110.83
2	D	801	D5M	O2P-P-O1P	2.04	118.77	110.83
2	C	801	D5M	C5-C6-N6	2.04	123.41	120.31
2	R	801	D5M	O2P-P-O1P	2.03	118.76	110.83
2	u	801	D5M	C5-C6-N6	2.02	123.39	120.31
2	m	801	D5M	C5-C6-N6	2.02	123.39	120.31
2	W	801	D5M	C5-C6-N6	2.02	123.39	120.31
2	U	801	D5M	C5-C6-N6	2.02	123.38	120.31
2	2	801	D5M	C5-C6-N6	2.02	123.38	120.31
2	O	801	D5M	C5-C6-N6	2.01	123.38	120.31
2	V	801	D5M	C5-C6-N6	2.01	123.37	120.31
2	4	801	D5M	C5-C6-N6	2.01	123.37	120.31
2	M	801	D5M	C5-C6-N6	2.01	123.37	120.31
2	l	801	D5M	C5-C6-N6	2.01	123.37	120.31
2	e	801	D5M	C5-C6-N6	2.01	123.37	120.31
2	t	801	D5M	C5-C6-N6	2.00	123.36	120.31

There are no chirality outliers.

All (180) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	D5M	C5'-O5'-P-O3P
2	A	801	D5M	C5'-O5'-P-O2P
2	B	801	D5M	C5'-O5'-P-O3P
2	B	801	D5M	C5'-O5'-P-O2P
2	C	801	D5M	C5'-O5'-P-O3P
2	C	801	D5M	C5'-O5'-P-O2P
2	D	801	D5M	C5'-O5'-P-O3P
2	D	801	D5M	C5'-O5'-P-O2P
2	E	801	D5M	C5'-O5'-P-O3P
2	E	801	D5M	C5'-O5'-P-O2P
2	F	801	D5M	C5'-O5'-P-O3P
2	F	801	D5M	C5'-O5'-P-O2P
2	G	801	D5M	C5'-O5'-P-O3P

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Mol	Chain	Res	Type	Atoms
2	G	801	D5M	C5'-O5'-P-O2P
2	H	801	D5M	C5'-O5'-P-O3P
2	H	801	D5M	C5'-O5'-P-O2P
2	I	801	D5M	C5'-O5'-P-O3P
2	I	801	D5M	C5'-O5'-P-O2P
2	J	801	D5M	C5'-O5'-P-O3P
2	J	801	D5M	C5'-O5'-P-O2P
2	K	801	D5M	C5'-O5'-P-O3P
2	K	801	D5M	C5'-O5'-P-O2P
2	L	801	D5M	C5'-O5'-P-O3P
2	L	801	D5M	C5'-O5'-P-O2P
2	M	801	D5M	C5'-O5'-P-O3P
2	M	801	D5M	C5'-O5'-P-O2P
2	N	801	D5M	C5'-O5'-P-O3P
2	N	801	D5M	C5'-O5'-P-O2P
2	O	801	D5M	C5'-O5'-P-O3P
2	O	801	D5M	C5'-O5'-P-O2P
2	P	801	D5M	C5'-O5'-P-O3P
2	P	801	D5M	C5'-O5'-P-O2P
2	Q	801	D5M	C5'-O5'-P-O3P
2	Q	801	D5M	C5'-O5'-P-O2P
2	R	801	D5M	C5'-O5'-P-O3P
2	R	801	D5M	C5'-O5'-P-O2P
2	S	801	D5M	C5'-O5'-P-O3P
2	S	801	D5M	C5'-O5'-P-O2P
2	T	801	D5M	C5'-O5'-P-O3P
2	T	801	D5M	C5'-O5'-P-O2P
2	U	801	D5M	C5'-O5'-P-O3P
2	U	801	D5M	C5'-O5'-P-O2P
2	V	801	D5M	C5'-O5'-P-O3P
2	V	801	D5M	C5'-O5'-P-O2P
2	W	801	D5M	C5'-O5'-P-O3P
2	W	801	D5M	C5'-O5'-P-O2P
2	X	801	D5M	C5'-O5'-P-O3P
2	X	801	D5M	C5'-O5'-P-O2P
2	Y	801	D5M	C5'-O5'-P-O3P
2	Y	801	D5M	C5'-O5'-P-O2P
2	Z	801	D5M	C5'-O5'-P-O3P
2	Z	801	D5M	C5'-O5'-P-O2P
2	a	801	D5M	C5'-O5'-P-O3P
2	a	801	D5M	C5'-O5'-P-O2P
2	b	801	D5M	C5'-O5'-P-O3P

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Mol	Chain	Res	Type	Atoms
2	b	801	D5M	C5'-O5'-P-O2P
2	c	801	D5M	C5'-O5'-P-O3P
2	c	801	D5M	C5'-O5'-P-O2P
2	d	801	D5M	C5'-O5'-P-O3P
2	d	801	D5M	C5'-O5'-P-O2P
2	e	801	D5M	C5'-O5'-P-O3P
2	e	801	D5M	C5'-O5'-P-O2P
2	f	801	D5M	C5'-O5'-P-O3P
2	f	801	D5M	C5'-O5'-P-O2P
2	g	801	D5M	C5'-O5'-P-O3P
2	g	801	D5M	C5'-O5'-P-O2P
2	h	801	D5M	C5'-O5'-P-O3P
2	h	801	D5M	C5'-O5'-P-O2P
2	i	801	D5M	C5'-O5'-P-O3P
2	i	801	D5M	C5'-O5'-P-O2P
2	j	801	D5M	C5'-O5'-P-O3P
2	j	801	D5M	C5'-O5'-P-O2P
2	k	801	D5M	C5'-O5'-P-O3P
2	k	801	D5M	C5'-O5'-P-O2P
2	l	801	D5M	C5'-O5'-P-O3P
2	l	801	D5M	C5'-O5'-P-O2P
2	m	801	D5M	C5'-O5'-P-O3P
2	m	801	D5M	C5'-O5'-P-O2P
2	n	801	D5M	C5'-O5'-P-O3P
2	n	801	D5M	C5'-O5'-P-O2P
2	o	801	D5M	C5'-O5'-P-O3P
2	o	801	D5M	C5'-O5'-P-O2P
2	p	801	D5M	C5'-O5'-P-O3P
2	p	801	D5M	C5'-O5'-P-O2P
2	q	801	D5M	C5'-O5'-P-O3P
2	q	801	D5M	C5'-O5'-P-O2P
2	r	801	D5M	C5'-O5'-P-O3P
2	r	801	D5M	C5'-O5'-P-O2P
2	s	801	D5M	C5'-O5'-P-O3P
2	s	801	D5M	C5'-O5'-P-O2P
2	t	801	D5M	C5'-O5'-P-O3P
2	t	801	D5M	C5'-O5'-P-O2P
2	u	801	D5M	C5'-O5'-P-O3P
2	u	801	D5M	C5'-O5'-P-O2P
2	v	801	D5M	C5'-O5'-P-O3P
2	v	801	D5M	C5'-O5'-P-O2P
2	w	801	D5M	C5'-O5'-P-O3P

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Mol	Chain	Res	Type	Atoms
2	w	801	D5M	C5'-O5'-P-O2P
2	x	801	D5M	C5'-O5'-P-O3P
2	x	801	D5M	C5'-O5'-P-O2P
2	y	801	D5M	C5'-O5'-P-O3P
2	y	801	D5M	C5'-O5'-P-O2P
2	z	801	D5M	C5'-O5'-P-O3P
2	z	801	D5M	C5'-O5'-P-O2P
2	1	801	D5M	C5'-O5'-P-O3P
2	1	801	D5M	C5'-O5'-P-O2P
2	2	801	D5M	C5'-O5'-P-O3P
2	2	801	D5M	C5'-O5'-P-O2P
2	3	801	D5M	C5'-O5'-P-O3P
2	3	801	D5M	C5'-O5'-P-O2P
2	4	801	D5M	C5'-O5'-P-O3P
2	4	801	D5M	C5'-O5'-P-O2P
2	5	801	D5M	C5'-O5'-P-O3P
2	5	801	D5M	C5'-O5'-P-O2P
2	6	801	D5M	C5'-O5'-P-O3P
2	6	801	D5M	C5'-O5'-P-O2P
2	7	801	D5M	C5'-O5'-P-O3P
2	7	801	D5M	C5'-O5'-P-O2P
2	8	801	D5M	C5'-O5'-P-O3P
2	8	801	D5M	C5'-O5'-P-O2P
2	A	801	D5M	C5'-O5'-P-O1P
2	B	801	D5M	C5'-O5'-P-O1P
2	C	801	D5M	C5'-O5'-P-O1P
2	D	801	D5M	C5'-O5'-P-O1P
2	E	801	D5M	C5'-O5'-P-O1P
2	F	801	D5M	C5'-O5'-P-O1P
2	G	801	D5M	C5'-O5'-P-O1P
2	H	801	D5M	C5'-O5'-P-O1P
2	I	801	D5M	C5'-O5'-P-O1P
2	J	801	D5M	C5'-O5'-P-O1P
2	K	801	D5M	C5'-O5'-P-O1P
2	L	801	D5M	C5'-O5'-P-O1P
2	M	801	D5M	C5'-O5'-P-O1P
2	N	801	D5M	C5'-O5'-P-O1P
2	O	801	D5M	C5'-O5'-P-O1P
2	P	801	D5M	C5'-O5'-P-O1P
2	Q	801	D5M	C5'-O5'-P-O1P
2	R	801	D5M	C5'-O5'-P-O1P
2	S	801	D5M	C5'-O5'-P-O1P

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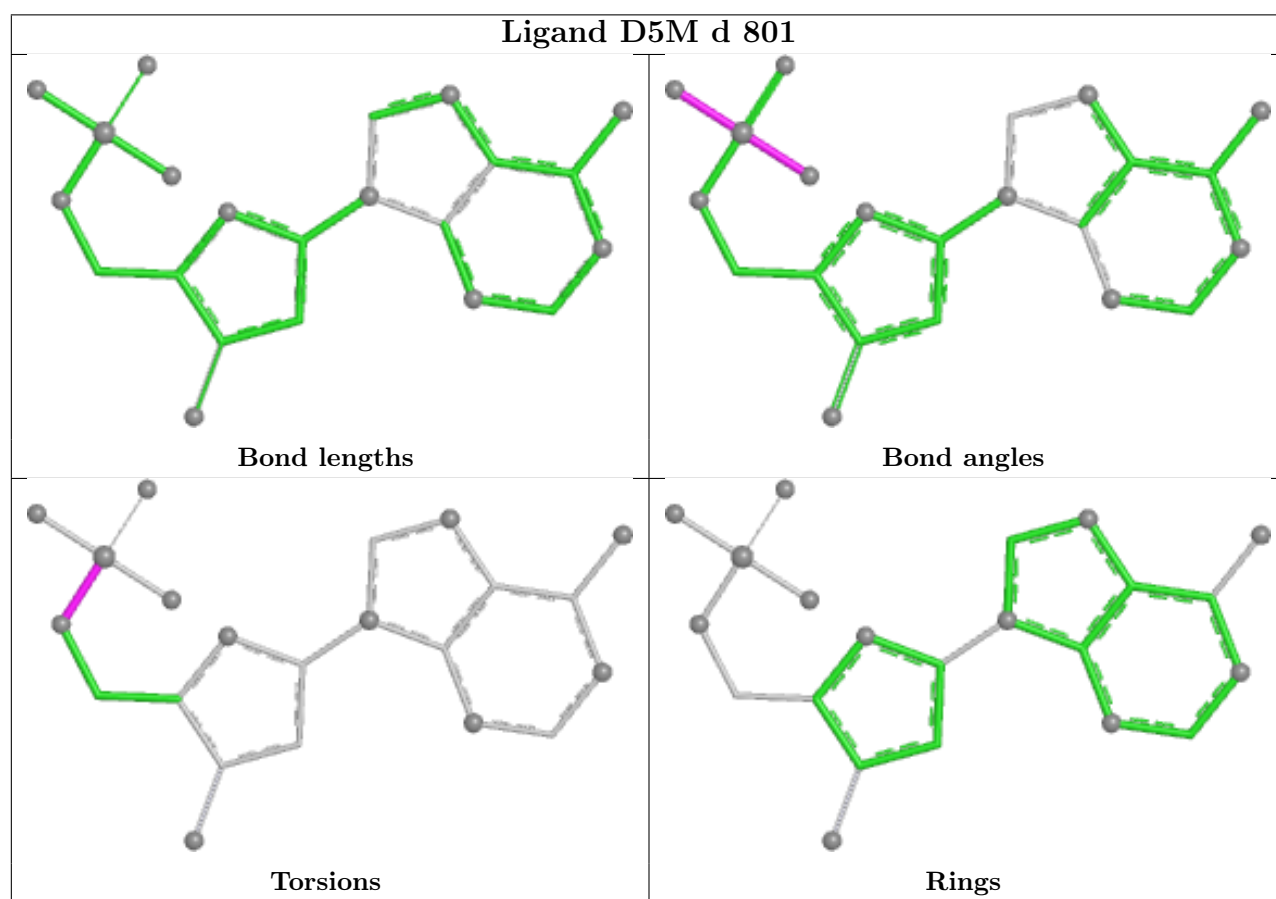
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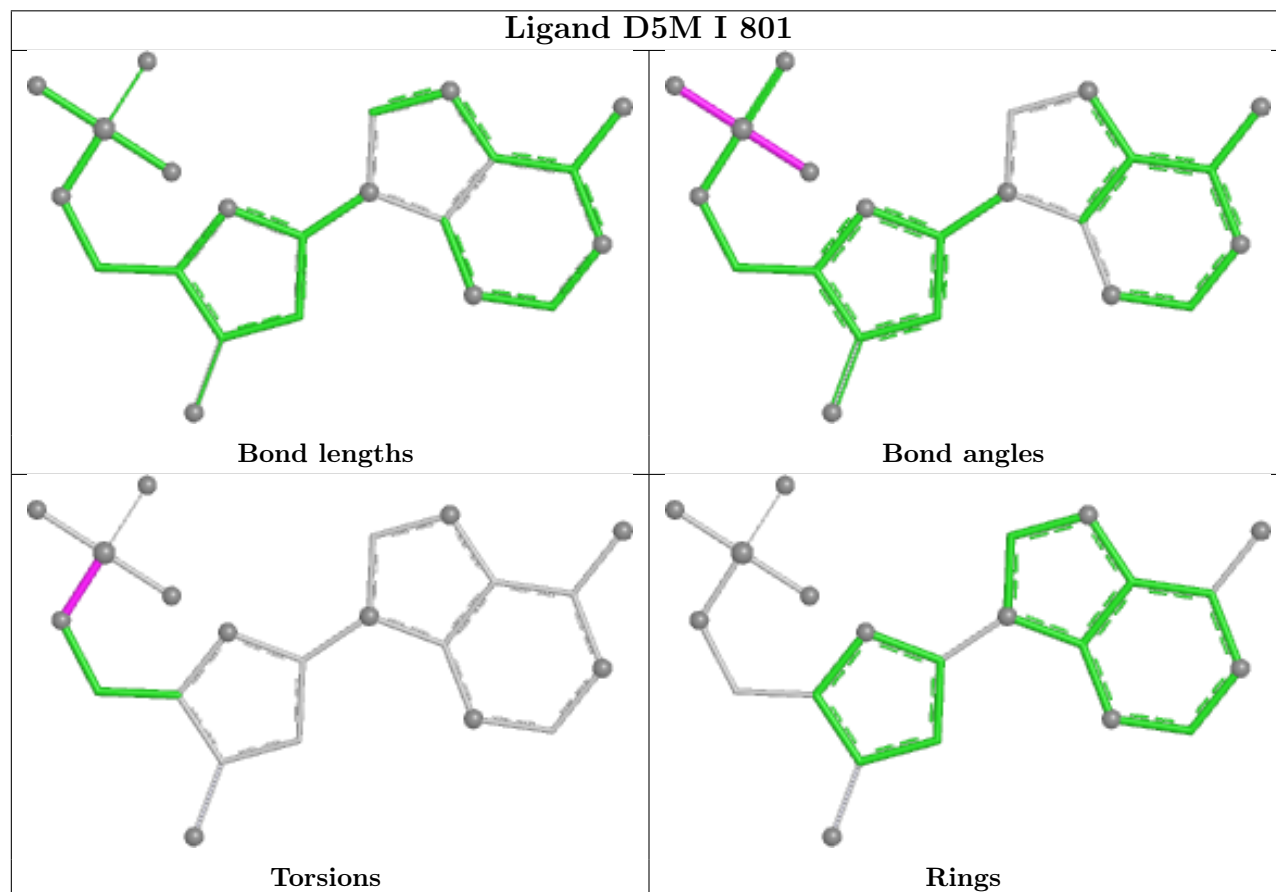
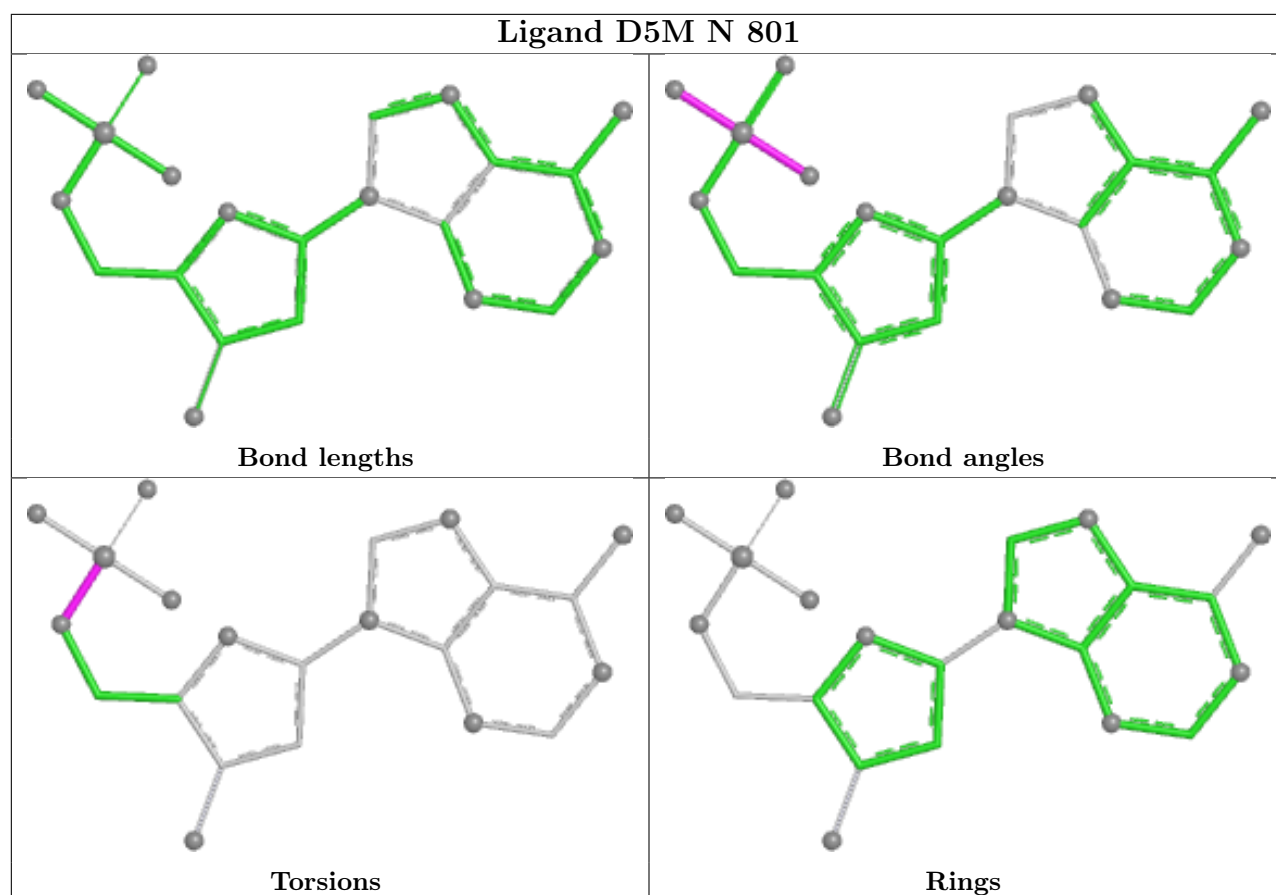
Mol	Chain	Res	Type	Atoms
2	T	801	D5M	C5'-O5'-P-O1P
2	U	801	D5M	C5'-O5'-P-O1P
2	V	801	D5M	C5'-O5'-P-O1P
2	W	801	D5M	C5'-O5'-P-O1P
2	X	801	D5M	C5'-O5'-P-O1P
2	Y	801	D5M	C5'-O5'-P-O1P
2	Z	801	D5M	C5'-O5'-P-O1P
2	a	801	D5M	C5'-O5'-P-O1P
2	b	801	D5M	C5'-O5'-P-O1P
2	c	801	D5M	C5'-O5'-P-O1P
2	d	801	D5M	C5'-O5'-P-O1P
2	e	801	D5M	C5'-O5'-P-O1P
2	f	801	D5M	C5'-O5'-P-O1P
2	g	801	D5M	C5'-O5'-P-O1P
2	h	801	D5M	C5'-O5'-P-O1P
2	i	801	D5M	C5'-O5'-P-O1P
2	j	801	D5M	C5'-O5'-P-O1P
2	k	801	D5M	C5'-O5'-P-O1P
2	l	801	D5M	C5'-O5'-P-O1P
2	m	801	D5M	C5'-O5'-P-O1P
2	n	801	D5M	C5'-O5'-P-O1P
2	o	801	D5M	C5'-O5'-P-O1P
2	p	801	D5M	C5'-O5'-P-O1P
2	q	801	D5M	C5'-O5'-P-O1P
2	r	801	D5M	C5'-O5'-P-O1P
2	s	801	D5M	C5'-O5'-P-O1P
2	t	801	D5M	C5'-O5'-P-O1P
2	u	801	D5M	C5'-O5'-P-O1P
2	v	801	D5M	C5'-O5'-P-O1P
2	w	801	D5M	C5'-O5'-P-O1P
2	x	801	D5M	C5'-O5'-P-O1P
2	y	801	D5M	C5'-O5'-P-O1P
2	z	801	D5M	C5'-O5'-P-O1P
2	1	801	D5M	C5'-O5'-P-O1P
2	2	801	D5M	C5'-O5'-P-O1P
2	3	801	D5M	C5'-O5'-P-O1P
2	4	801	D5M	C5'-O5'-P-O1P
2	5	801	D5M	C5'-O5'-P-O1P
2	6	801	D5M	C5'-O5'-P-O1P
2	7	801	D5M	C5'-O5'-P-O1P
2	8	801	D5M	C5'-O5'-P-O1P

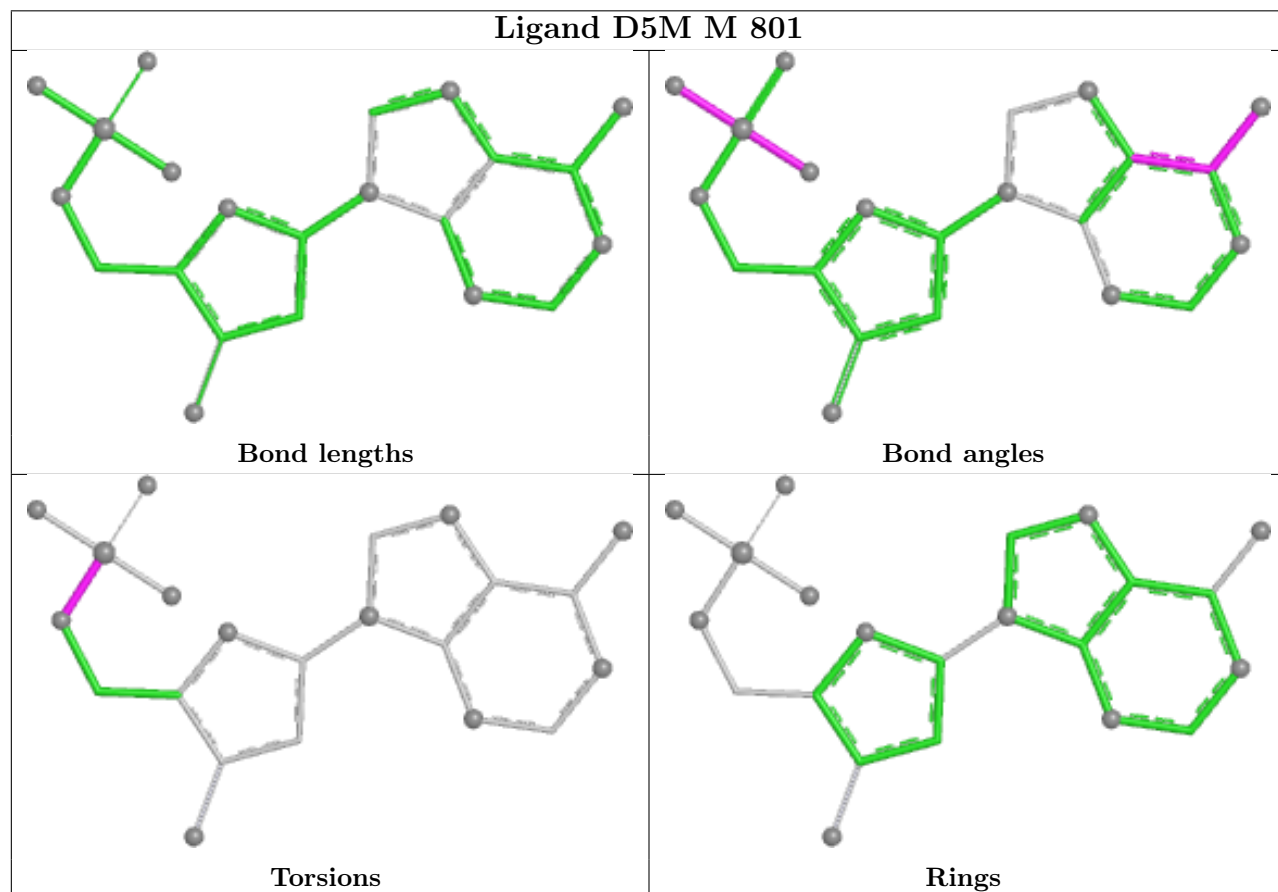
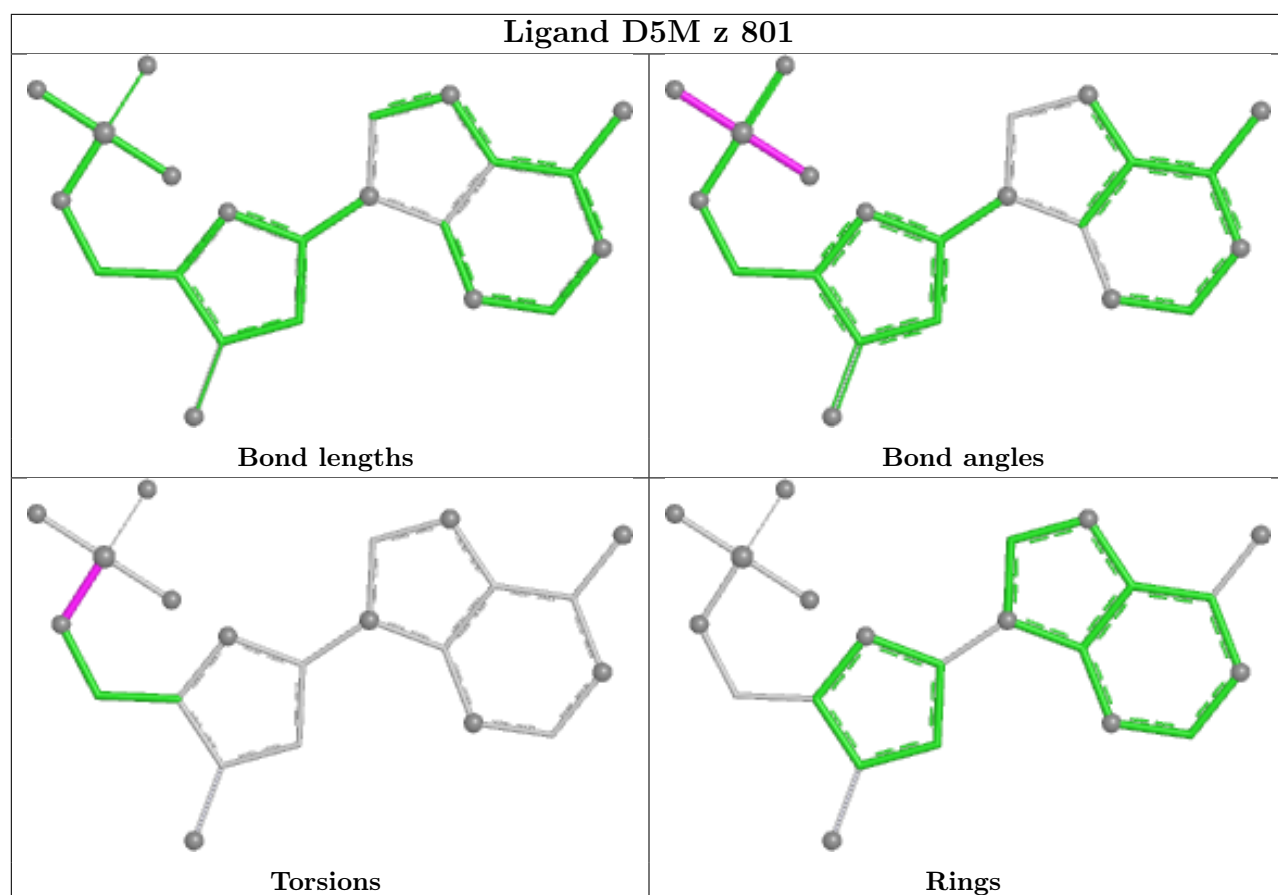
There are no ring outliers.

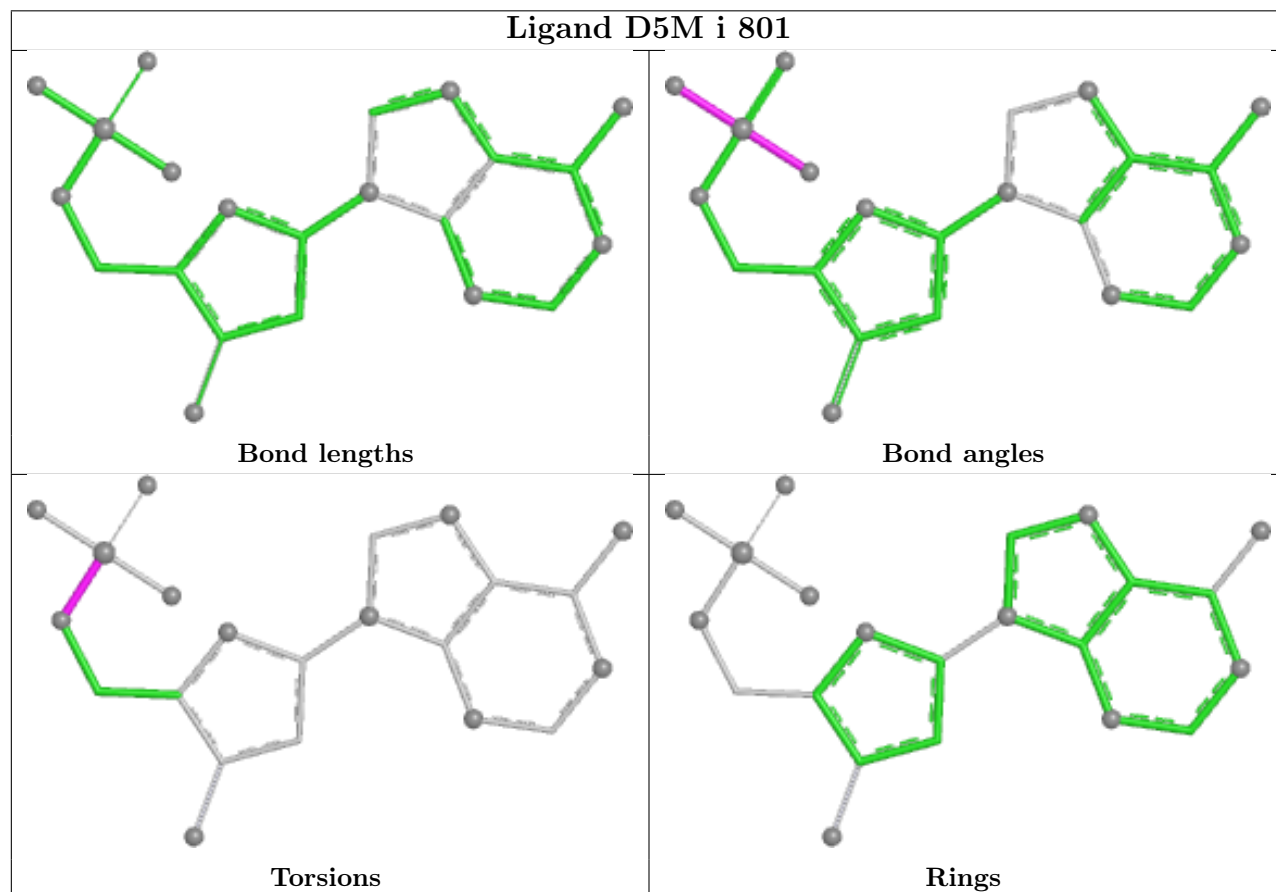
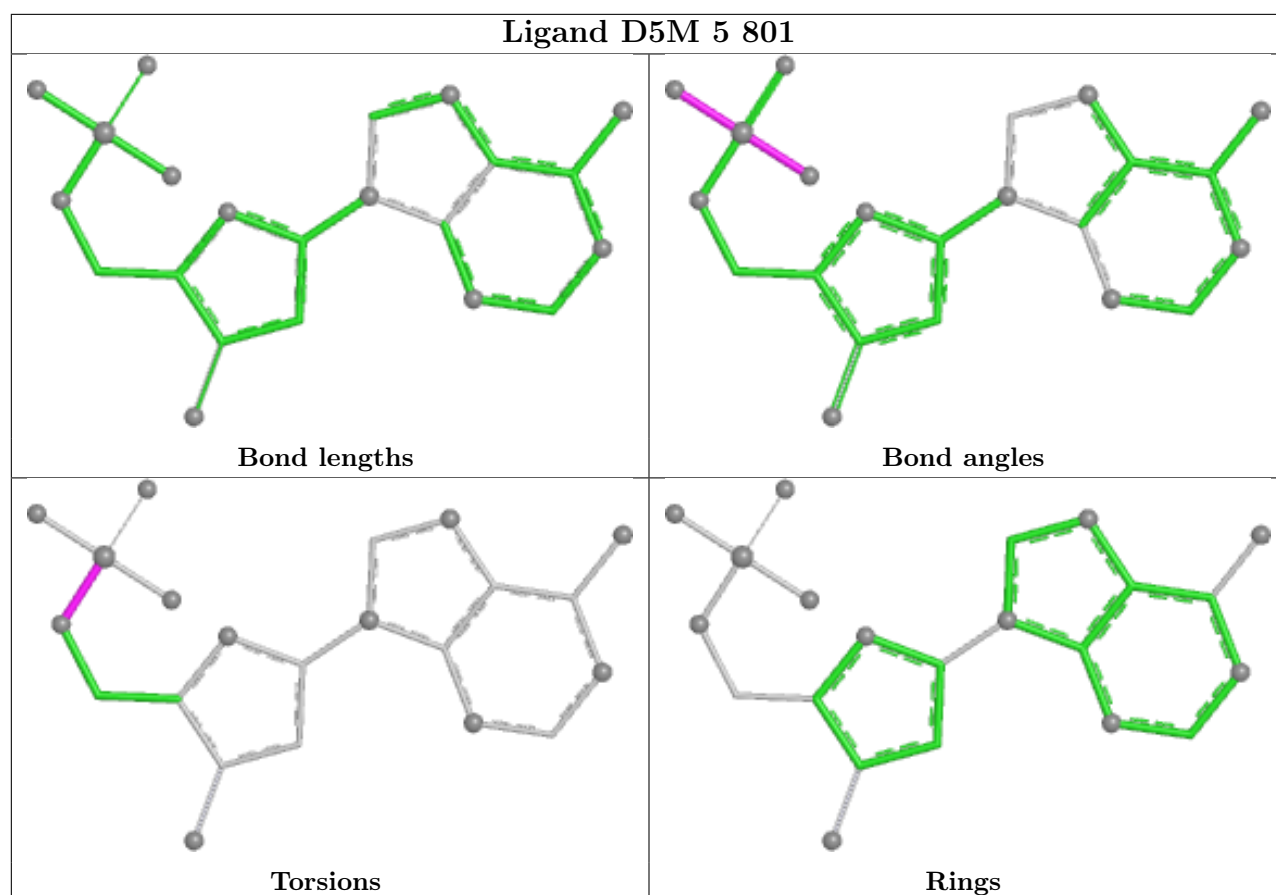
No monomer is involved in short contacts.

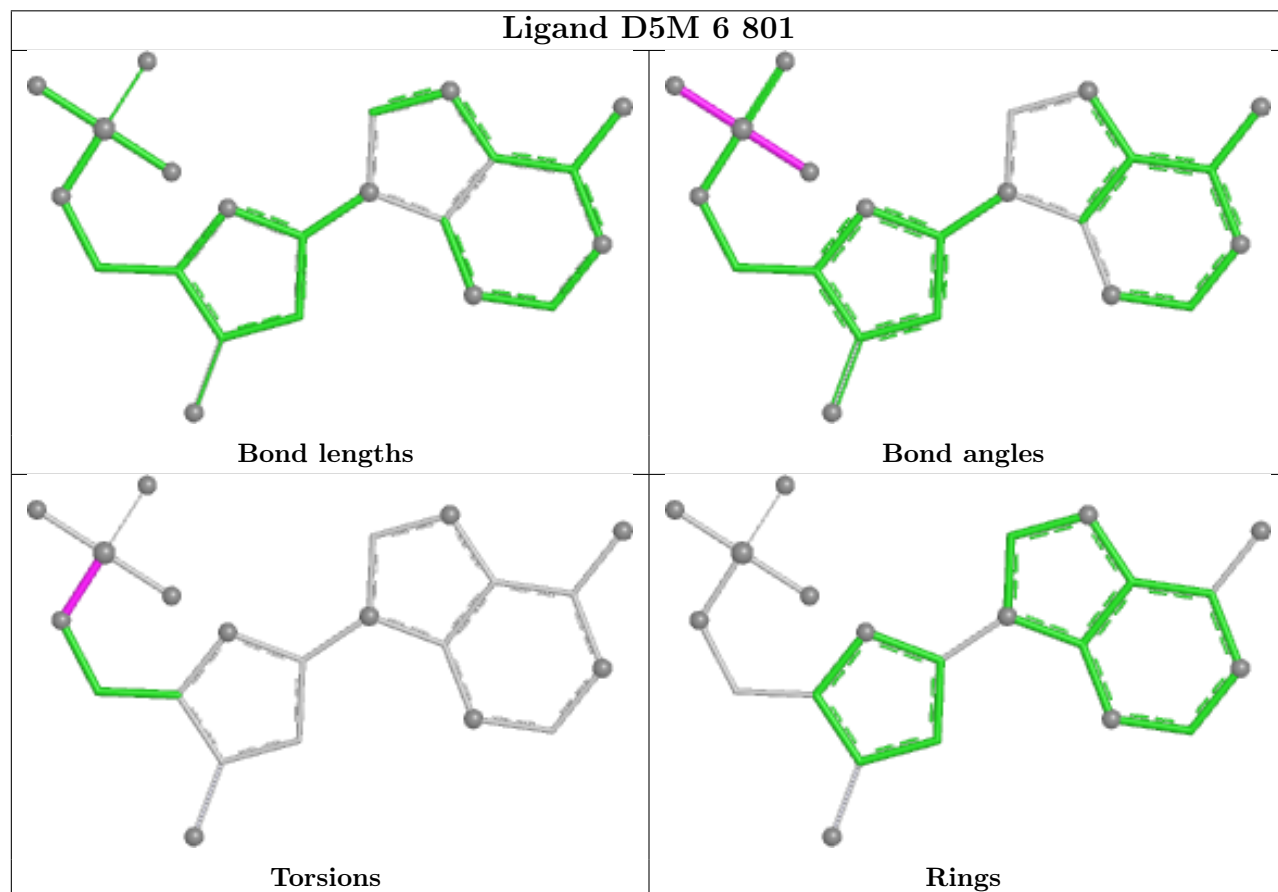
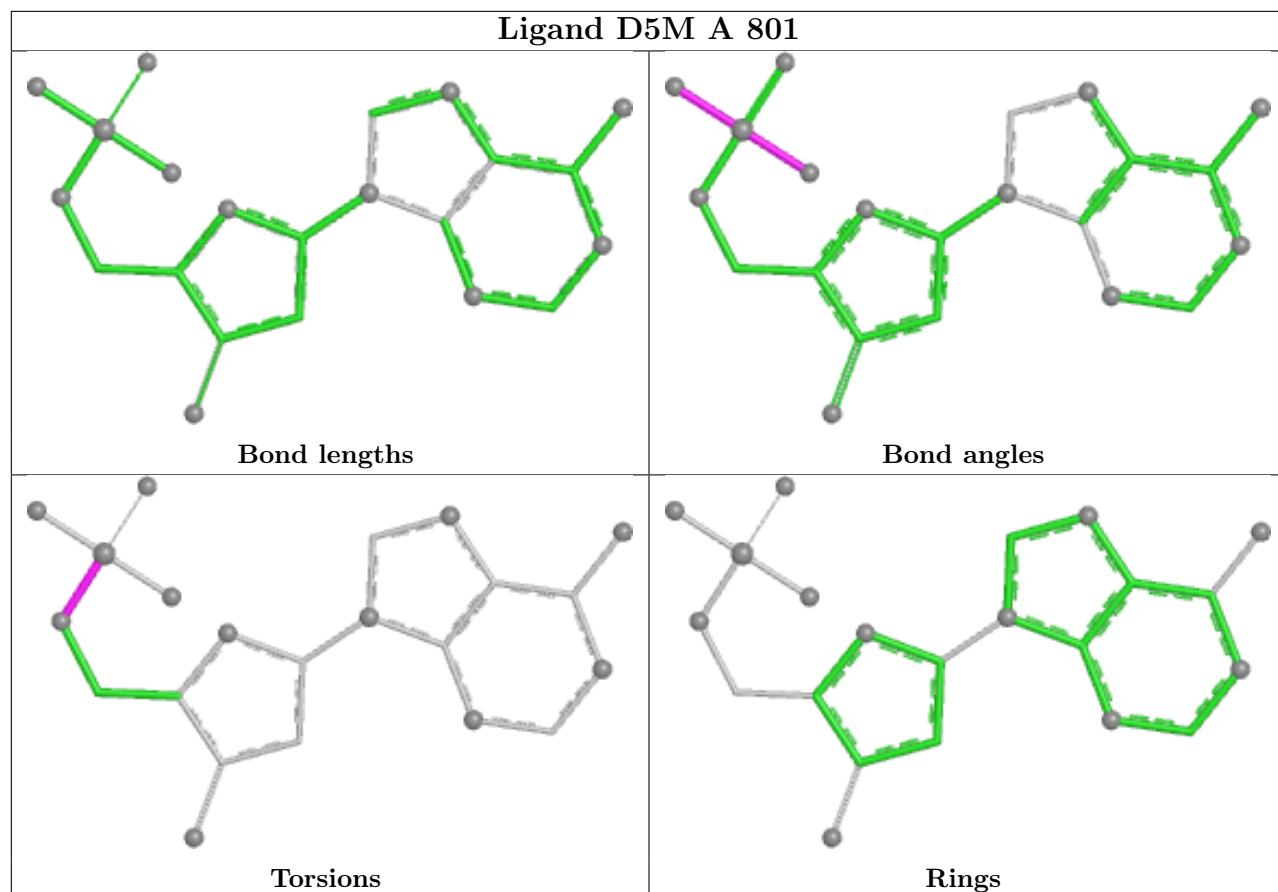
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

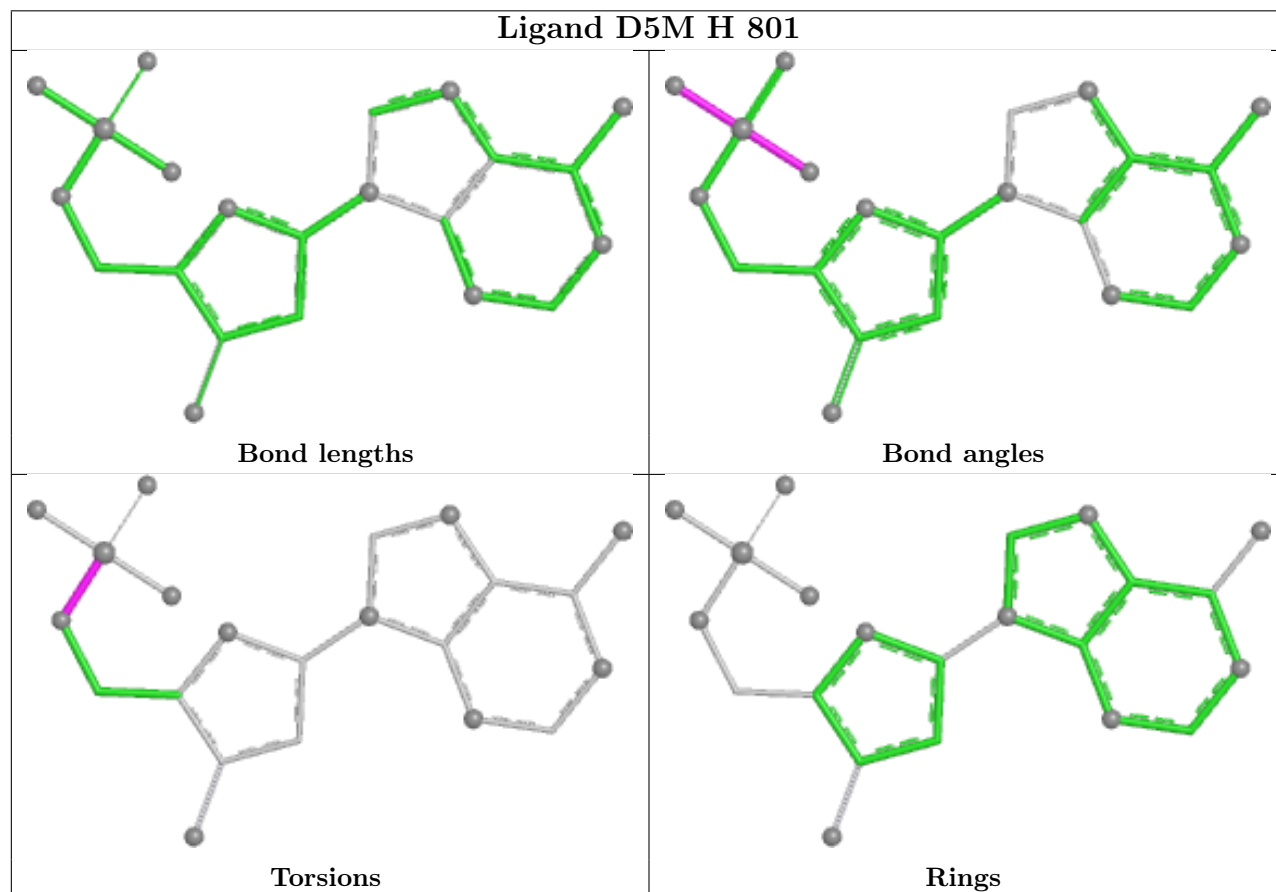
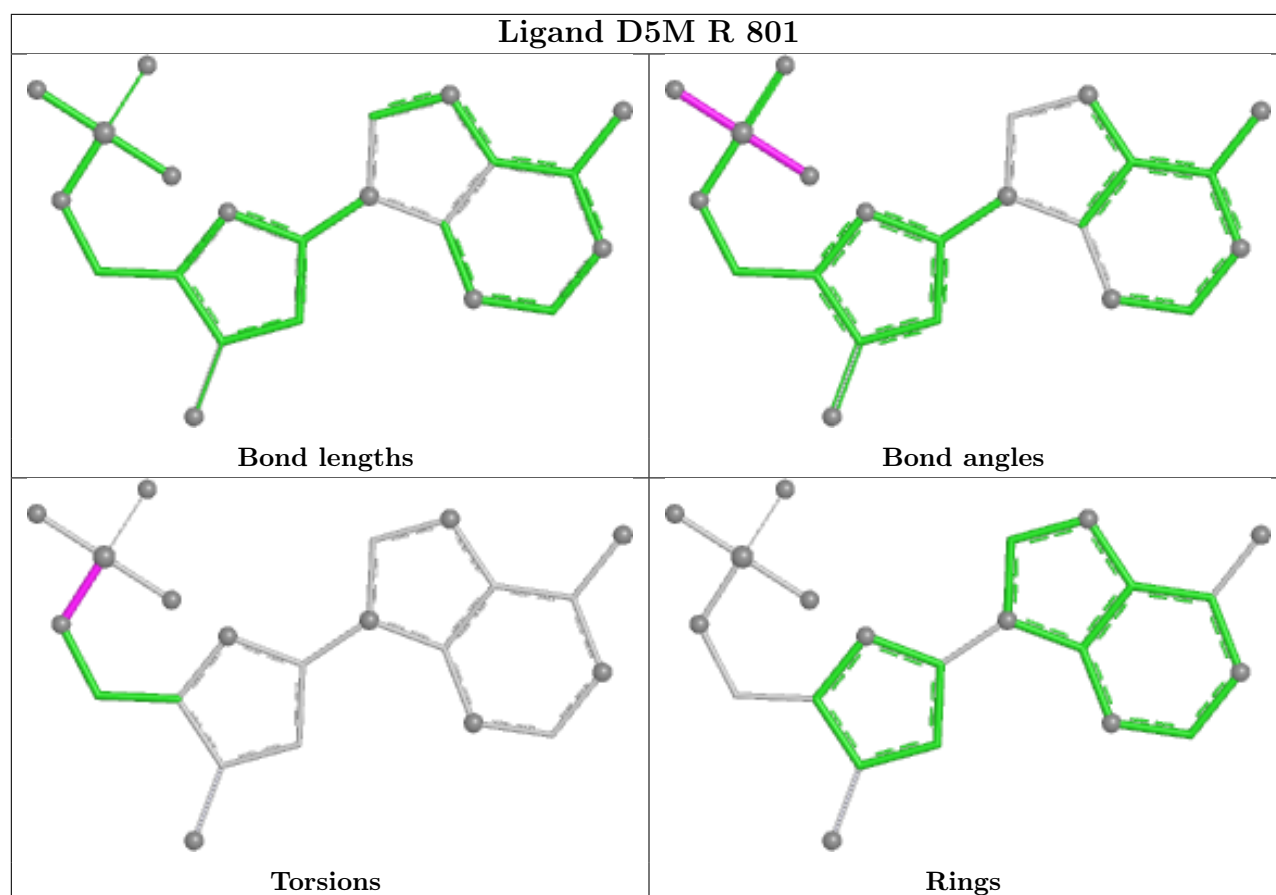


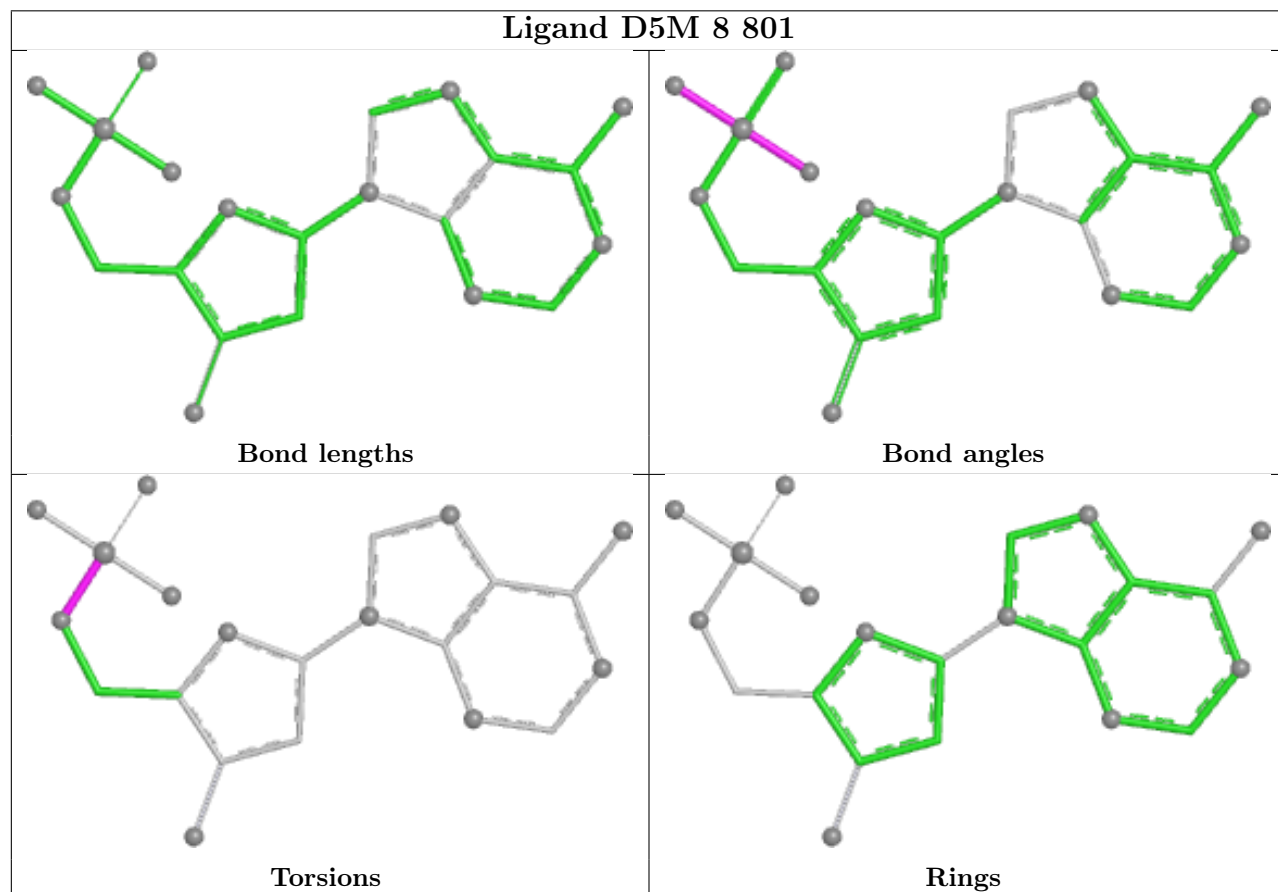
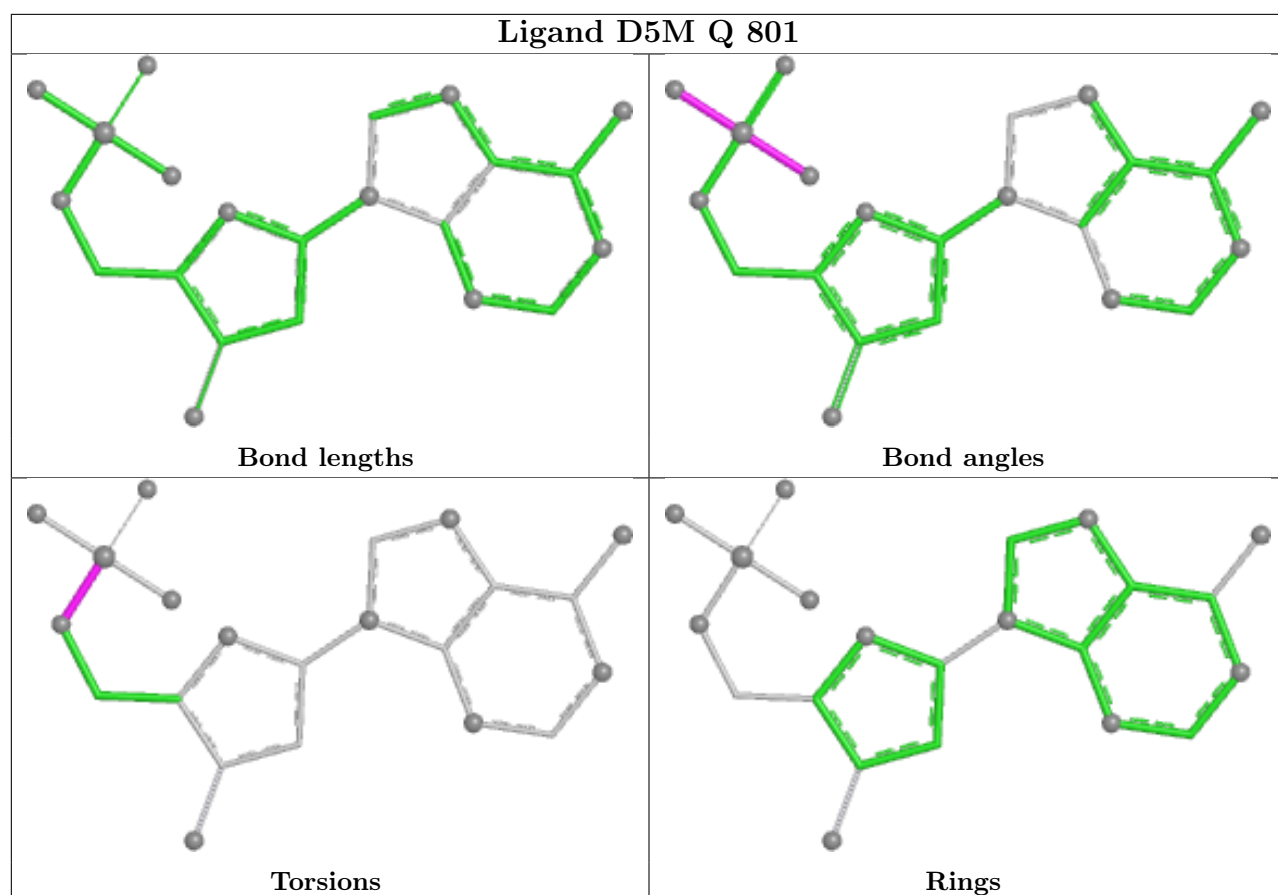


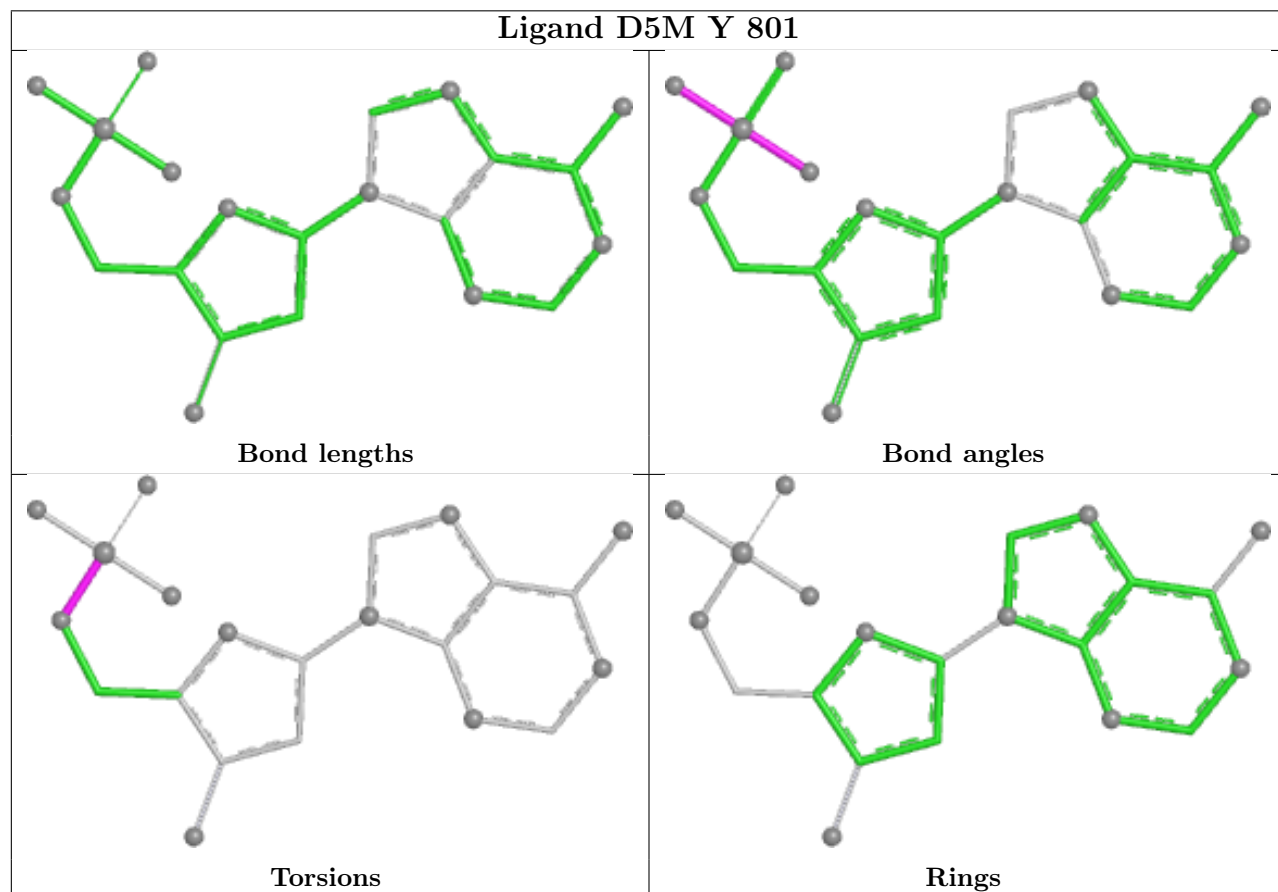
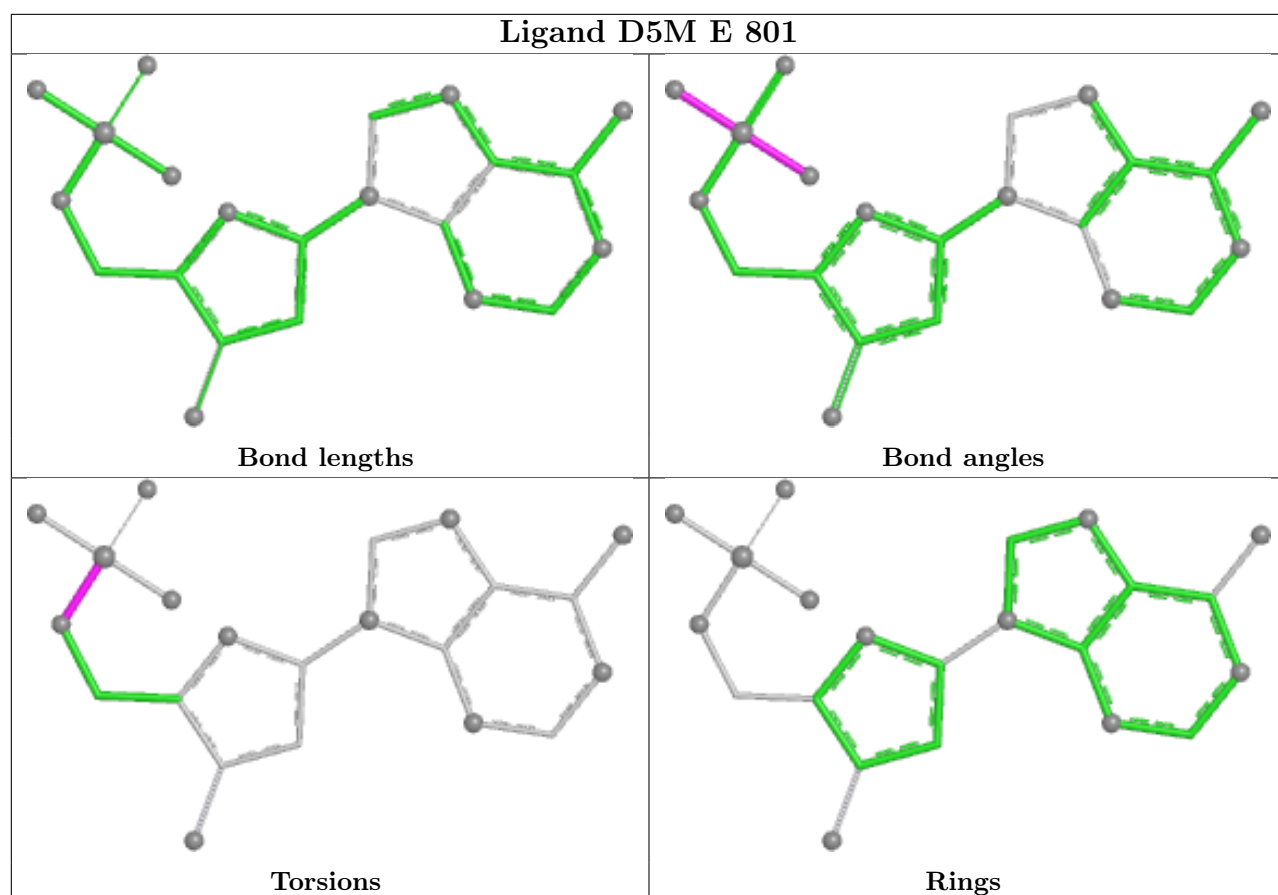


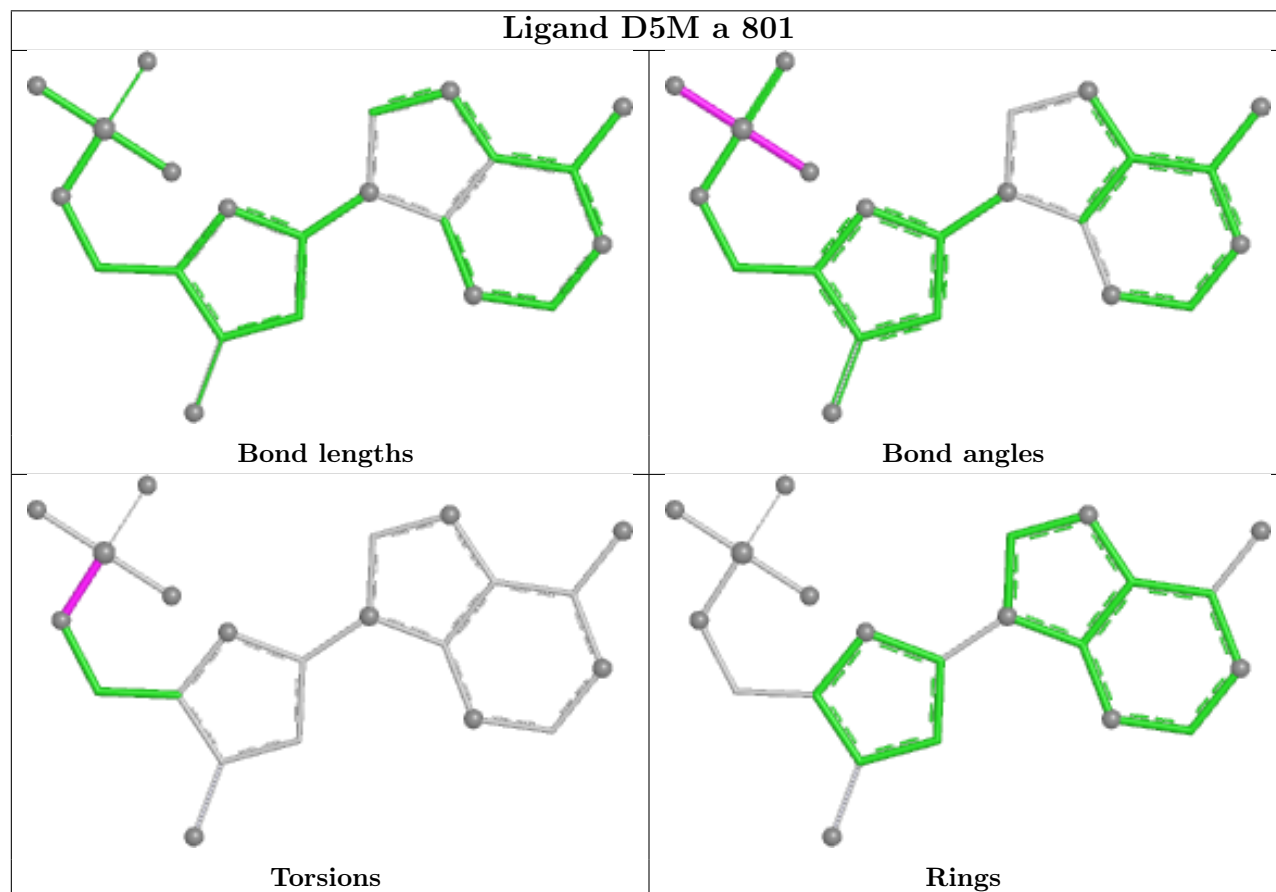
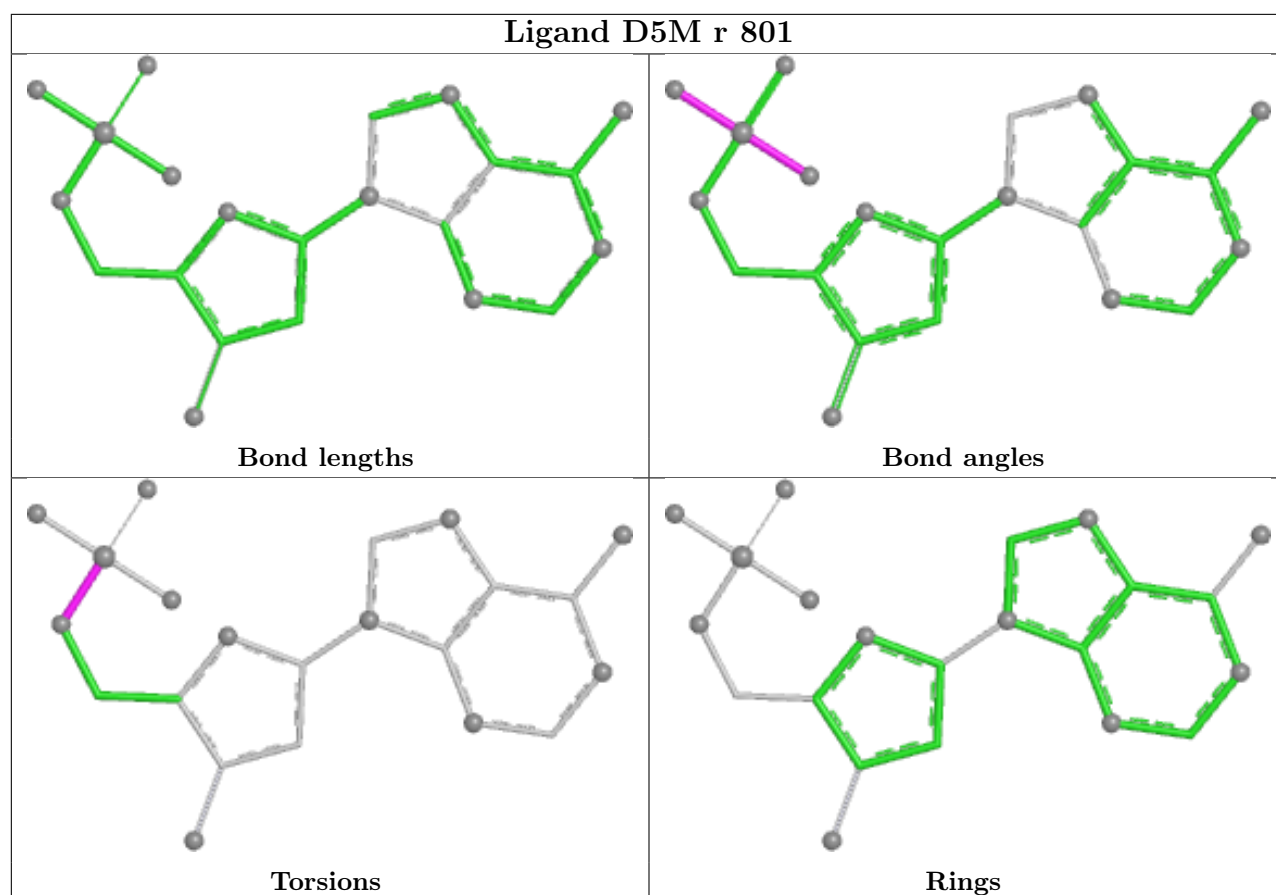


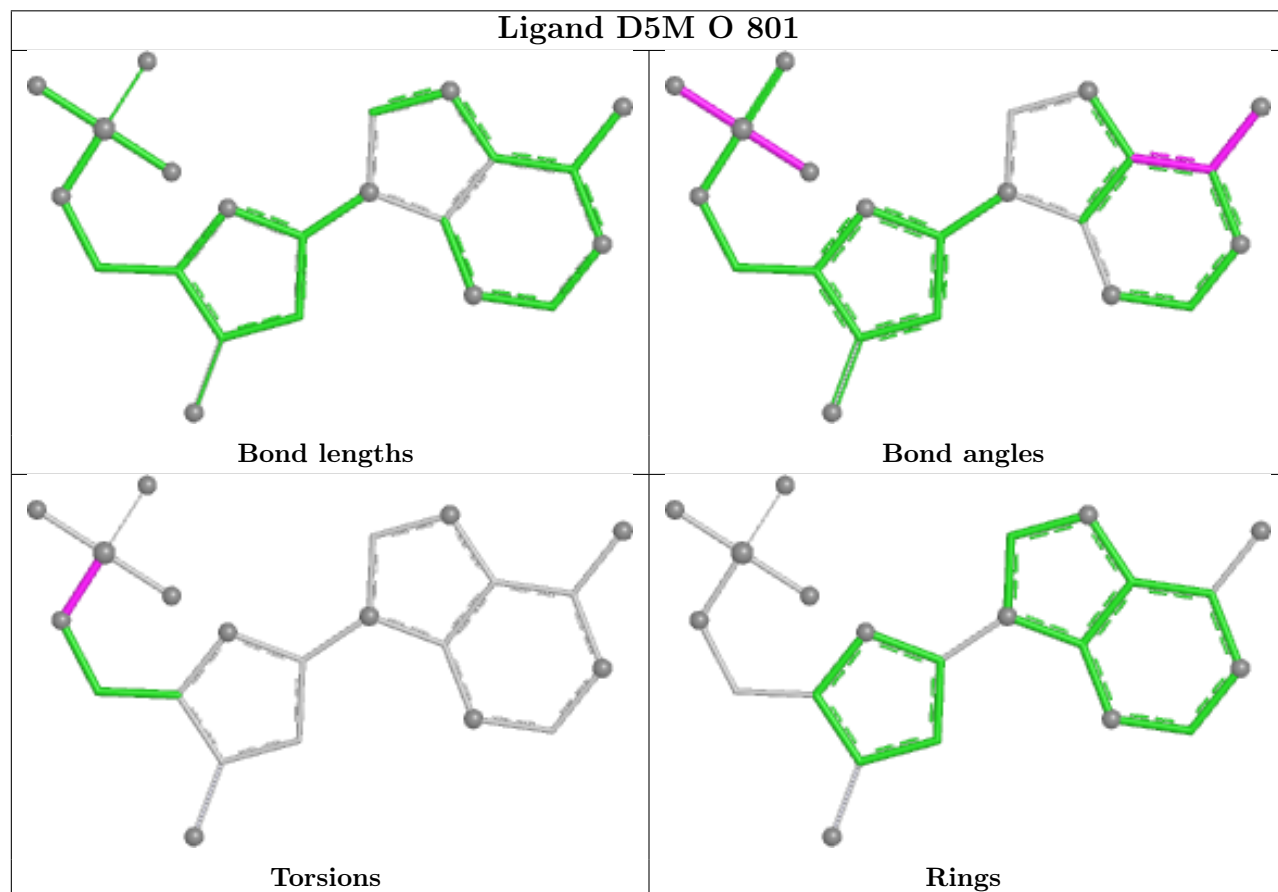
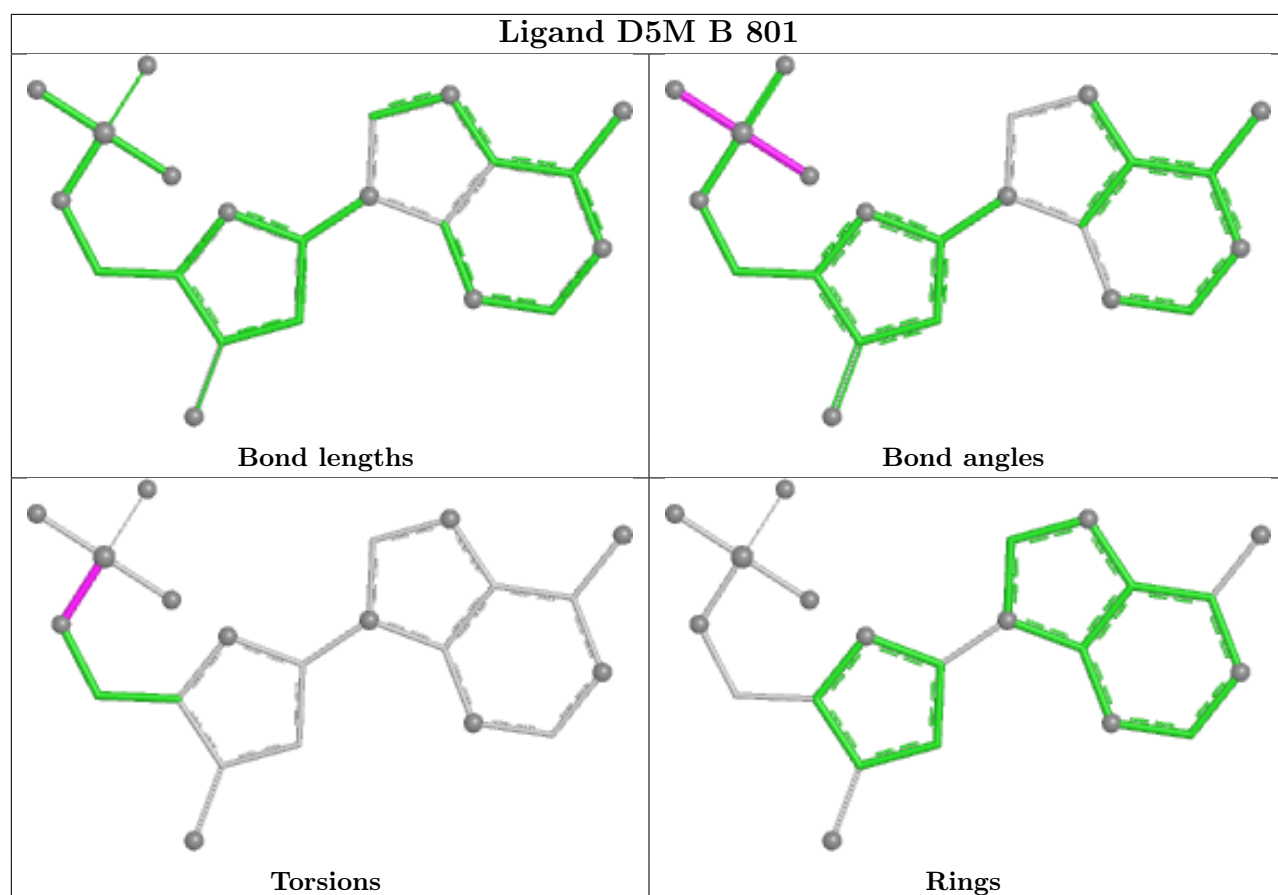


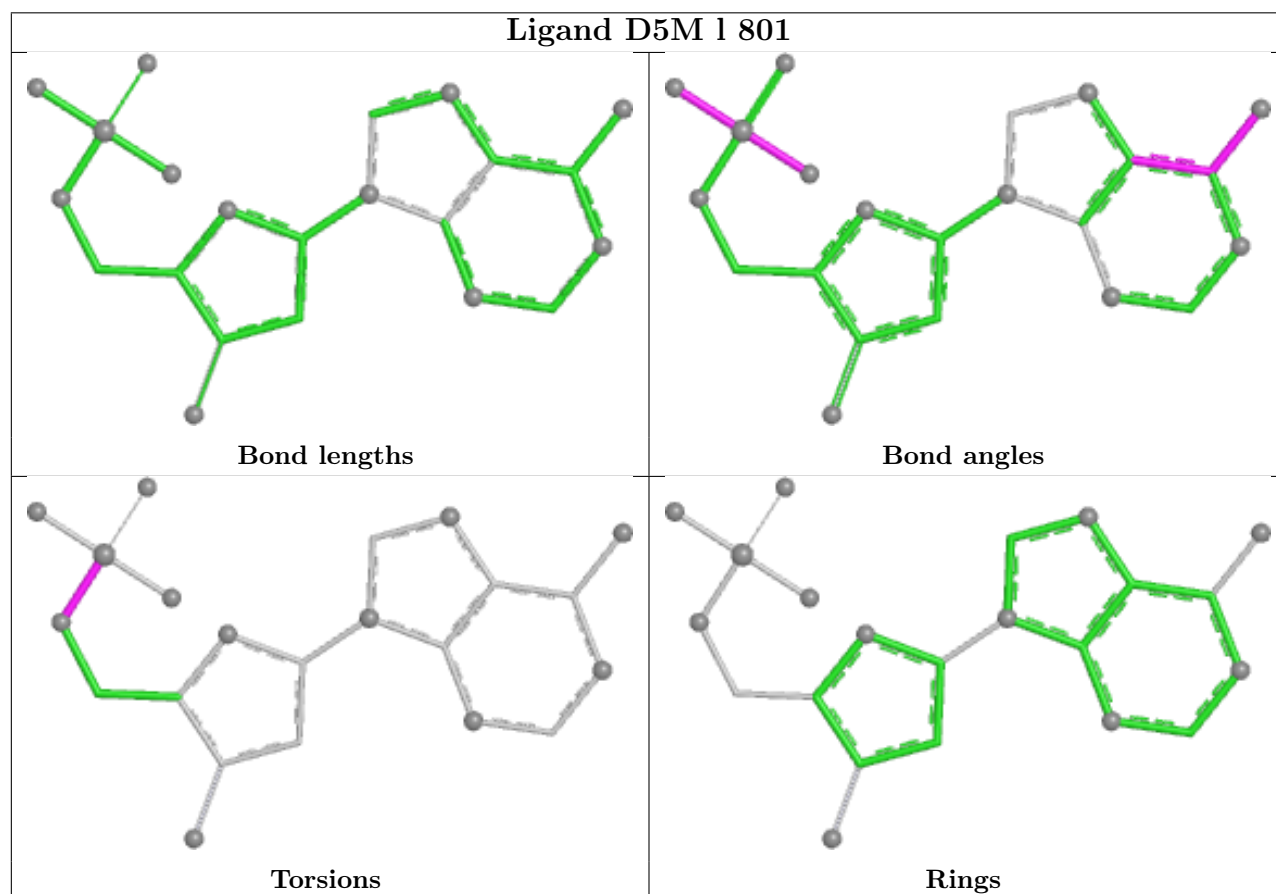
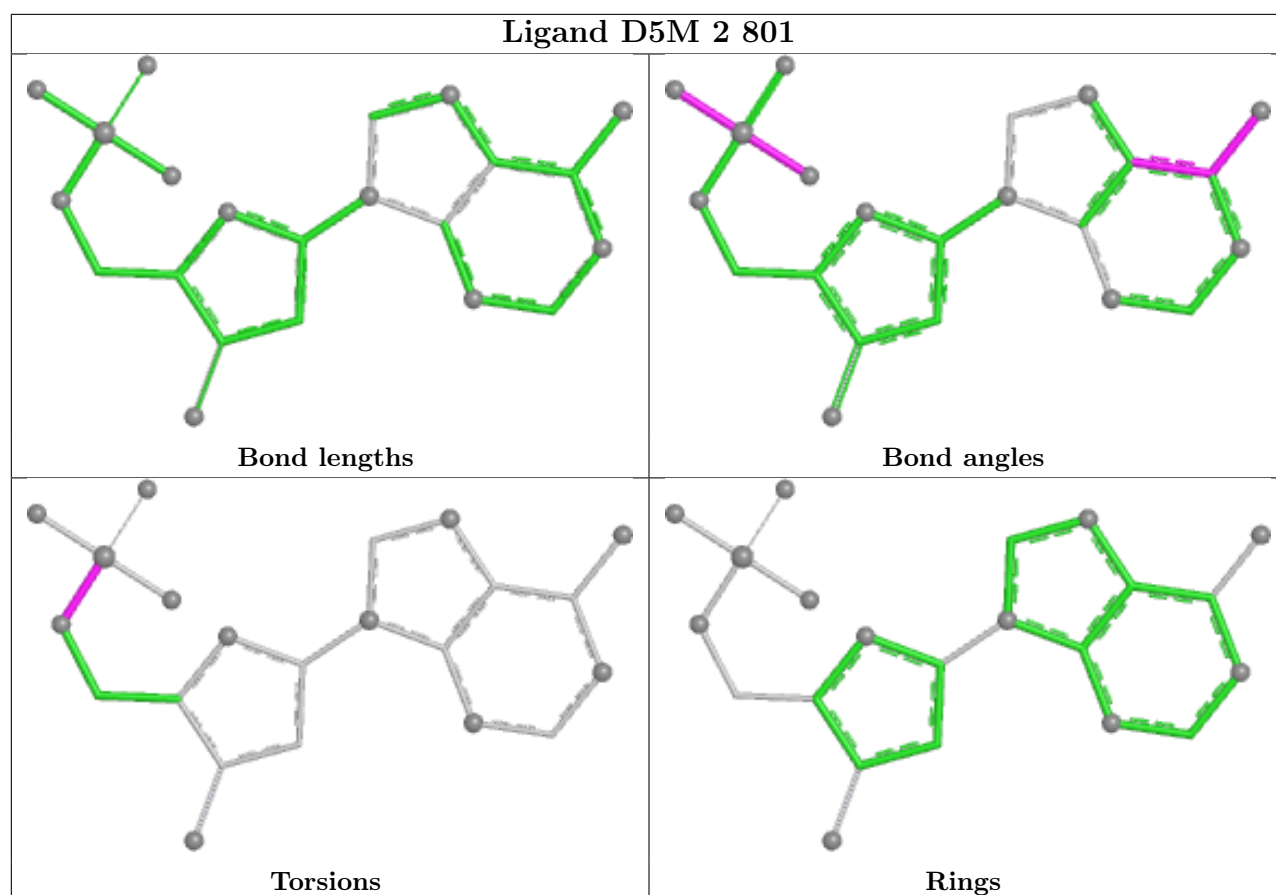


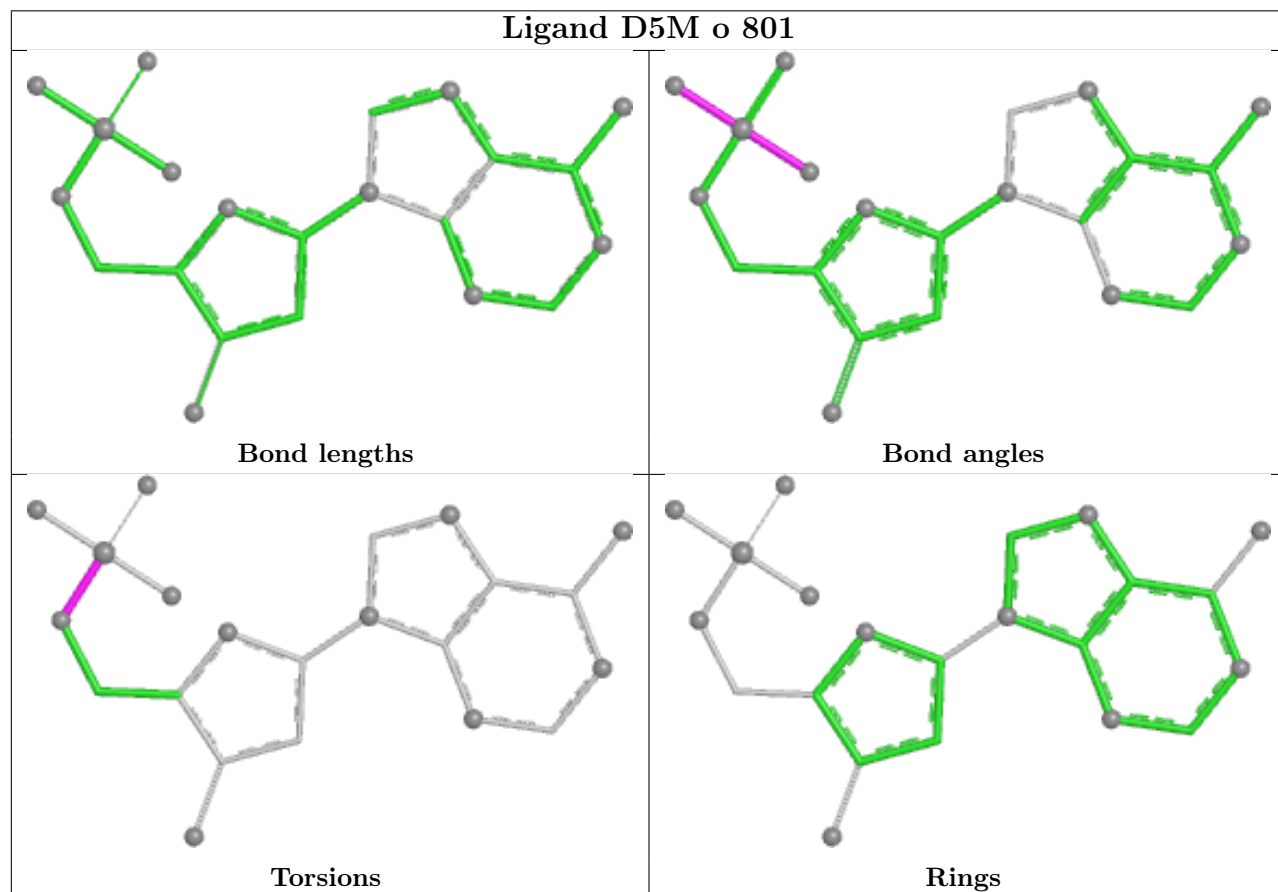
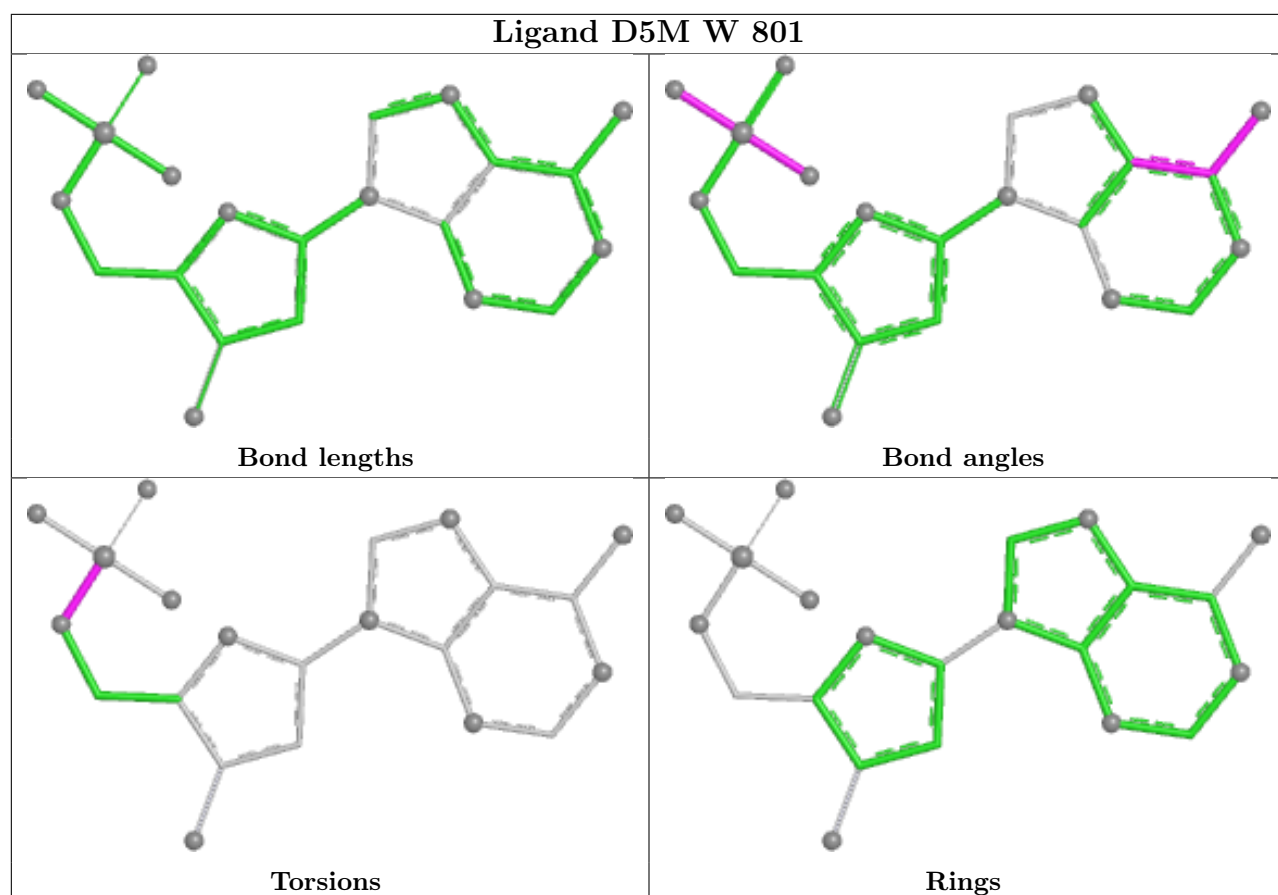


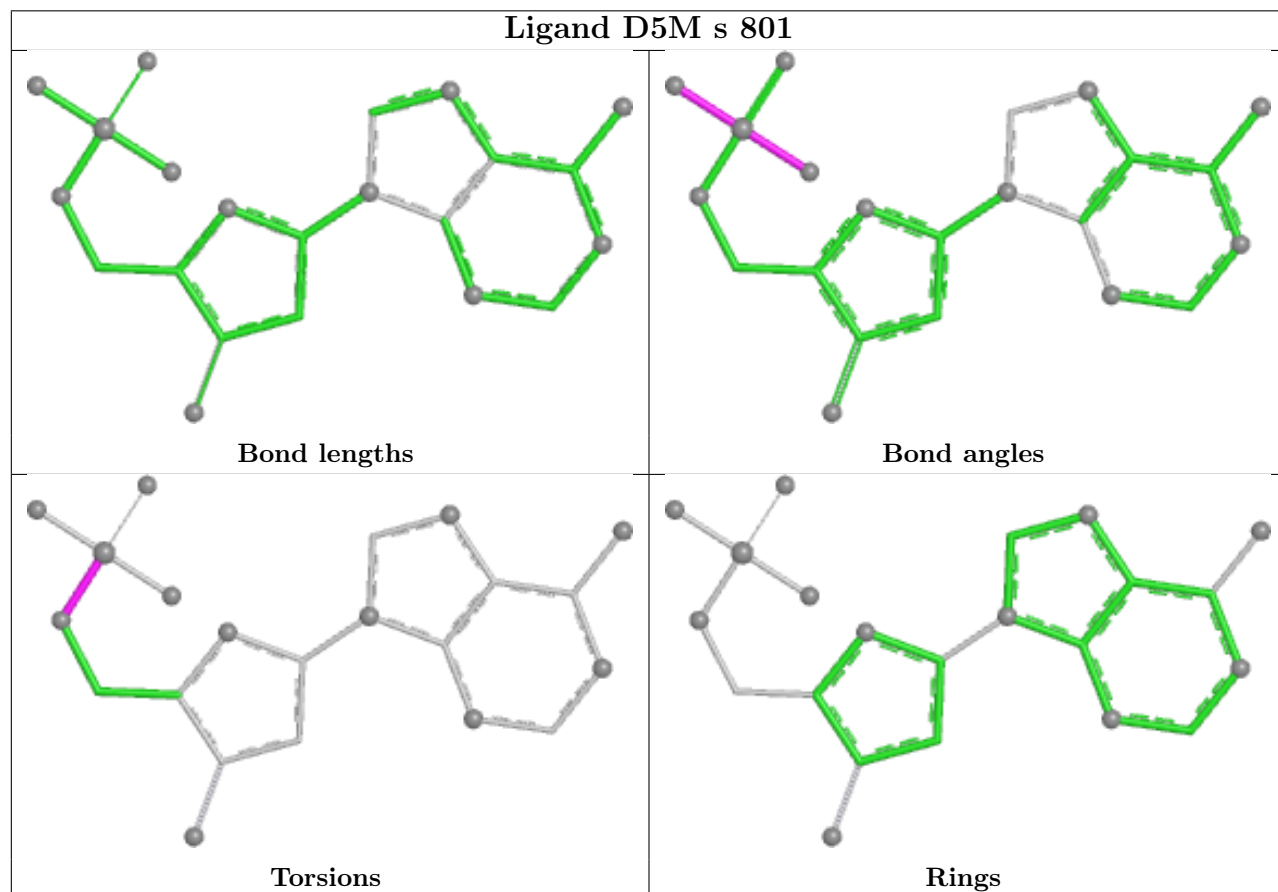
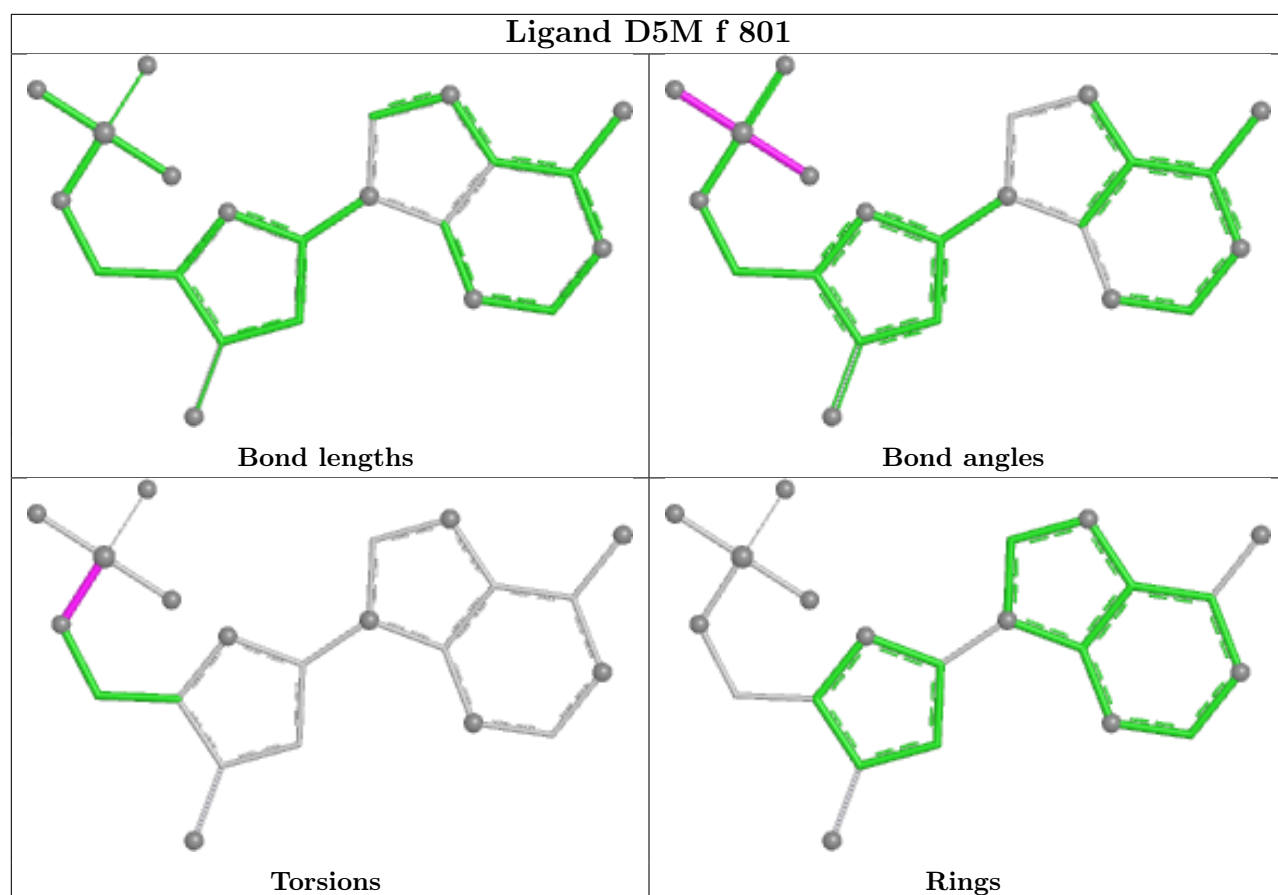




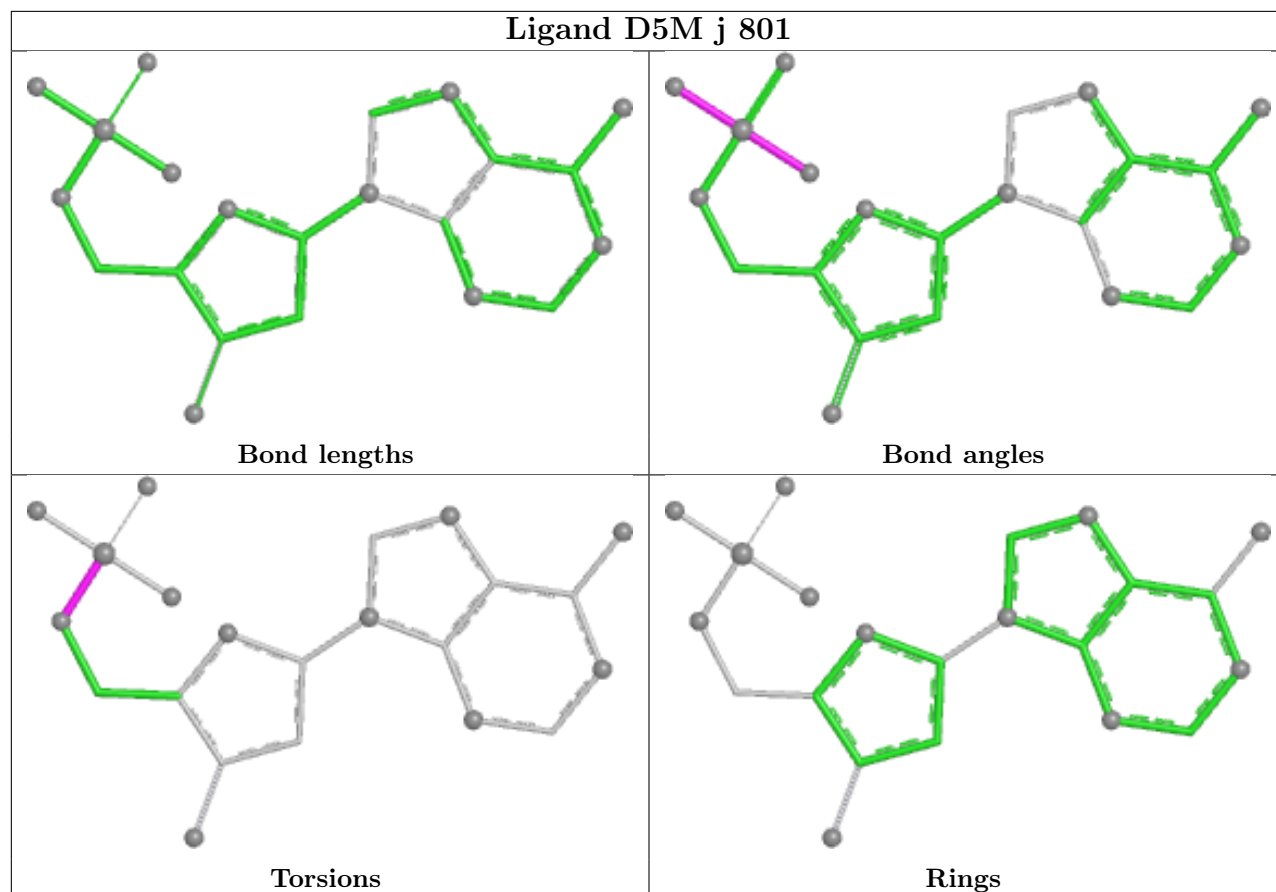




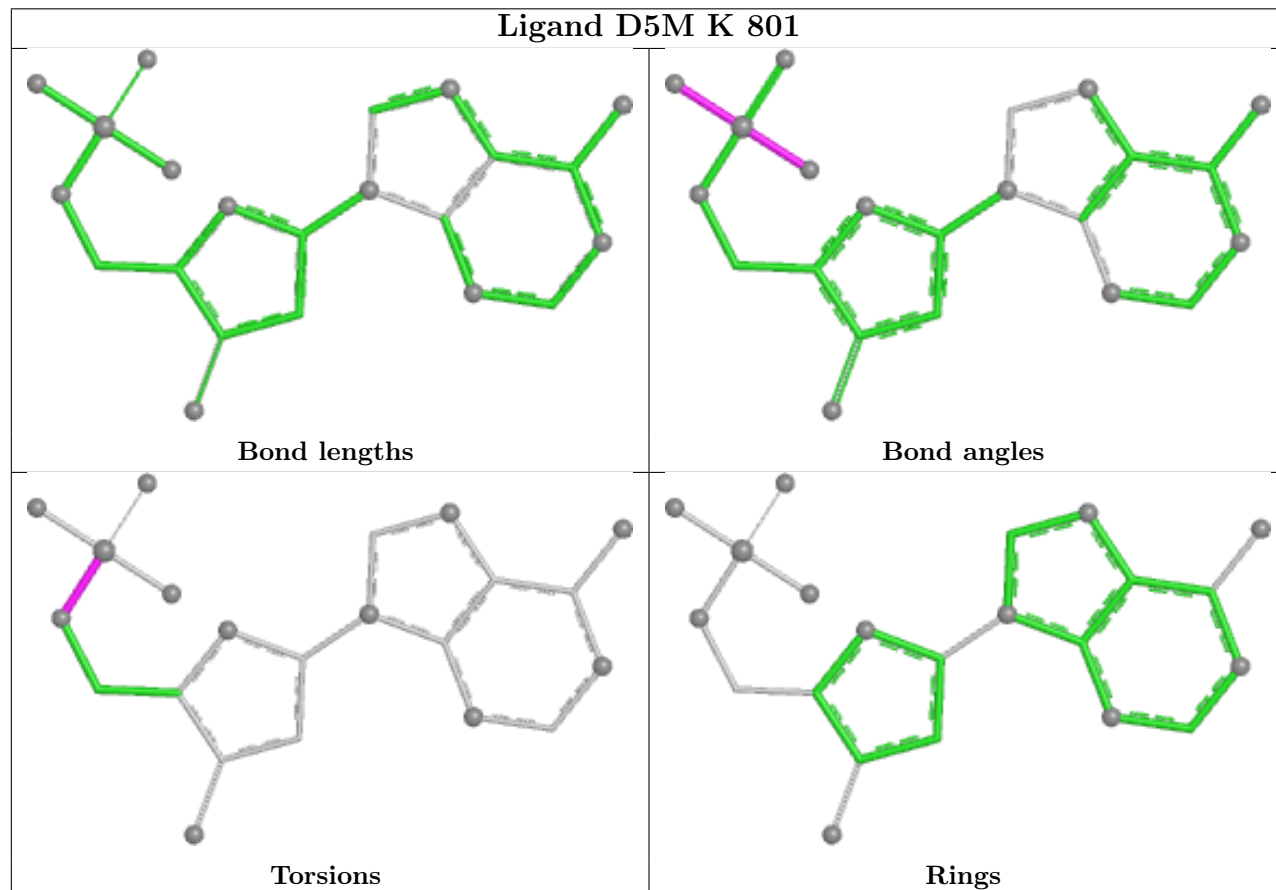


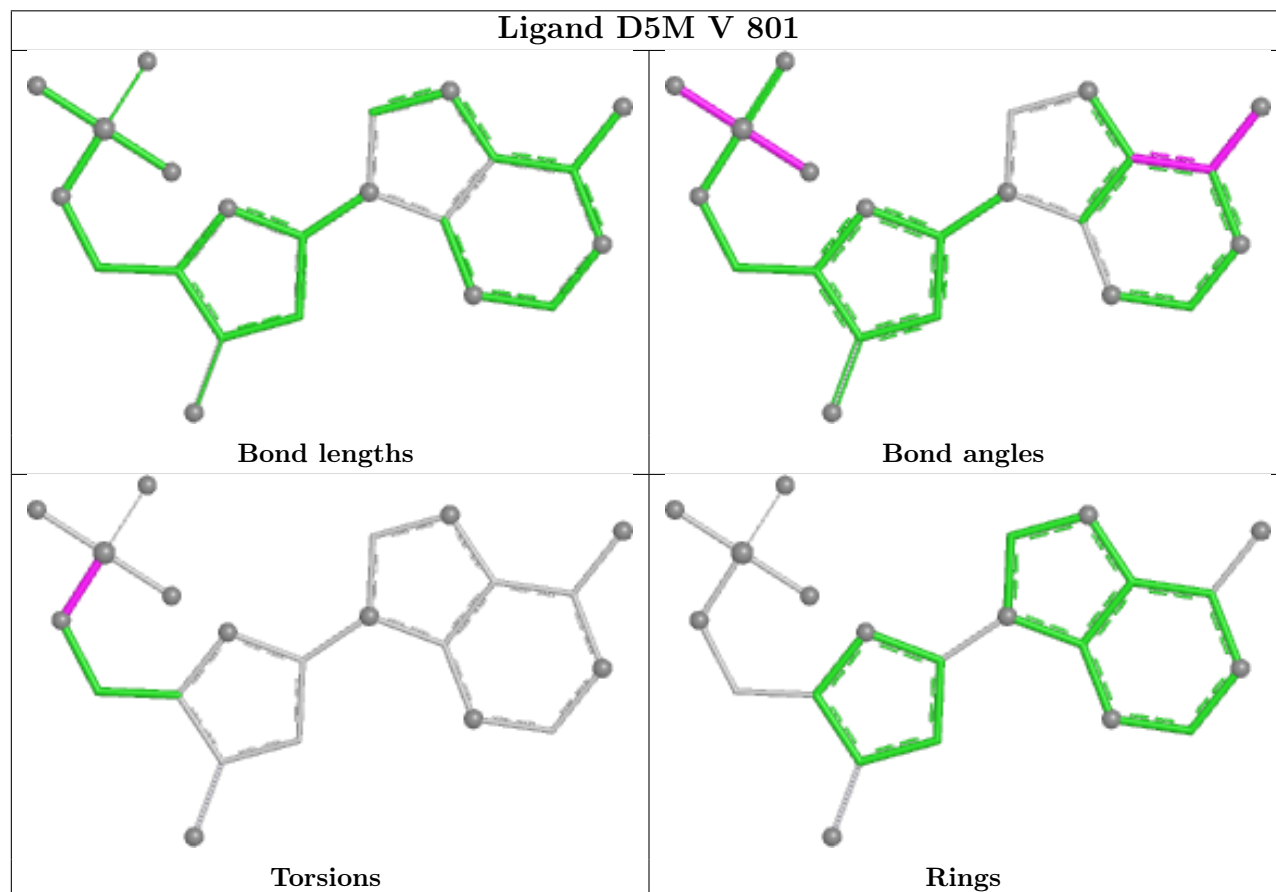
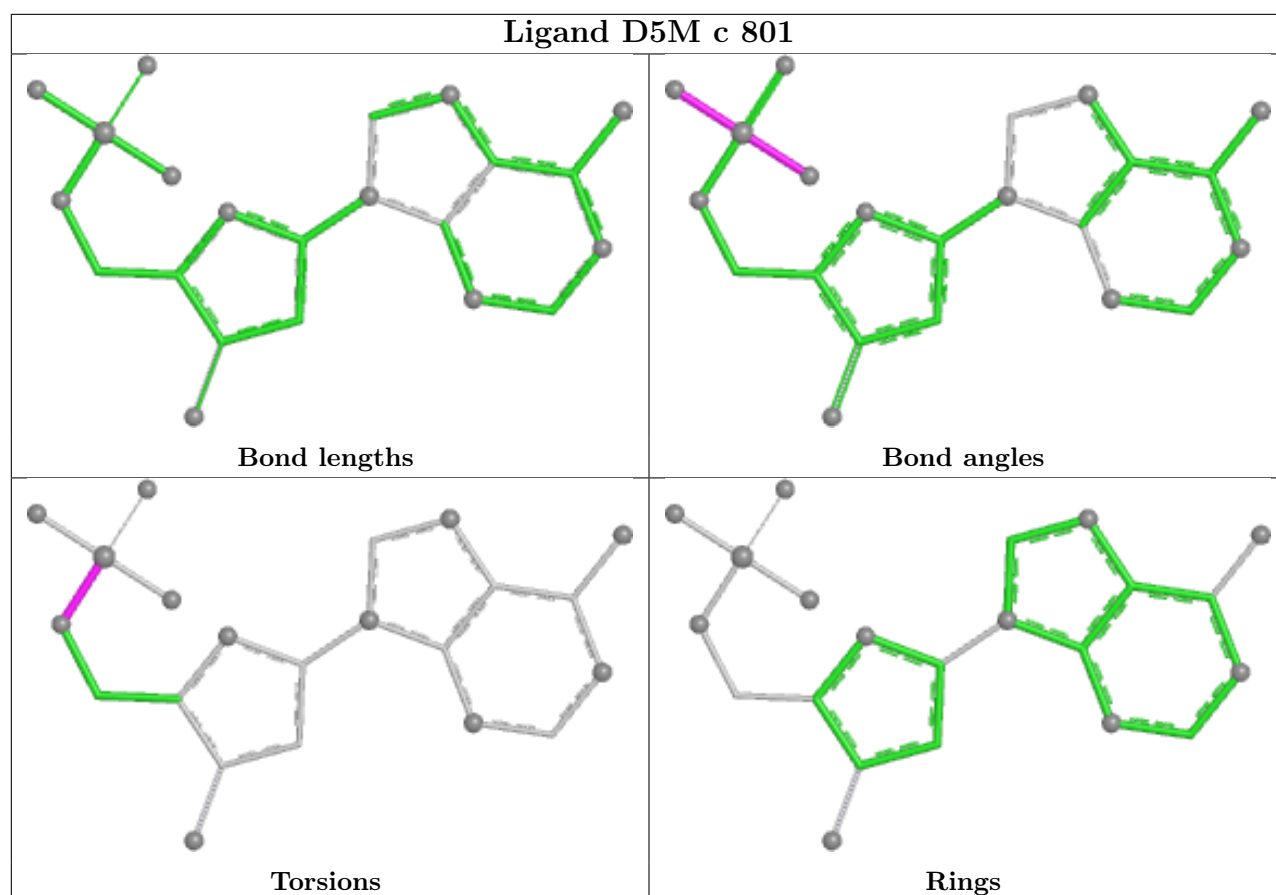


Ligand D5M j 801

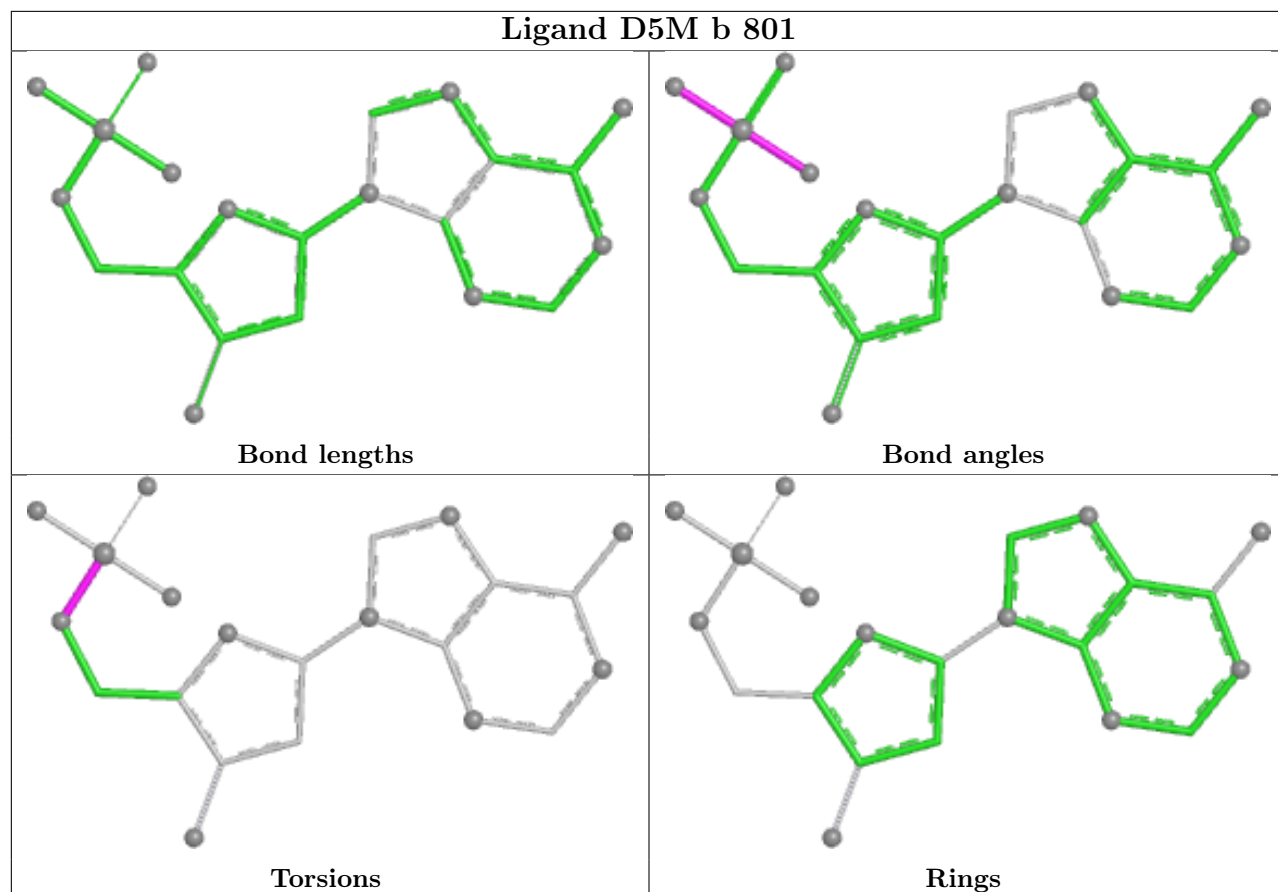


Ligand D5M K 801

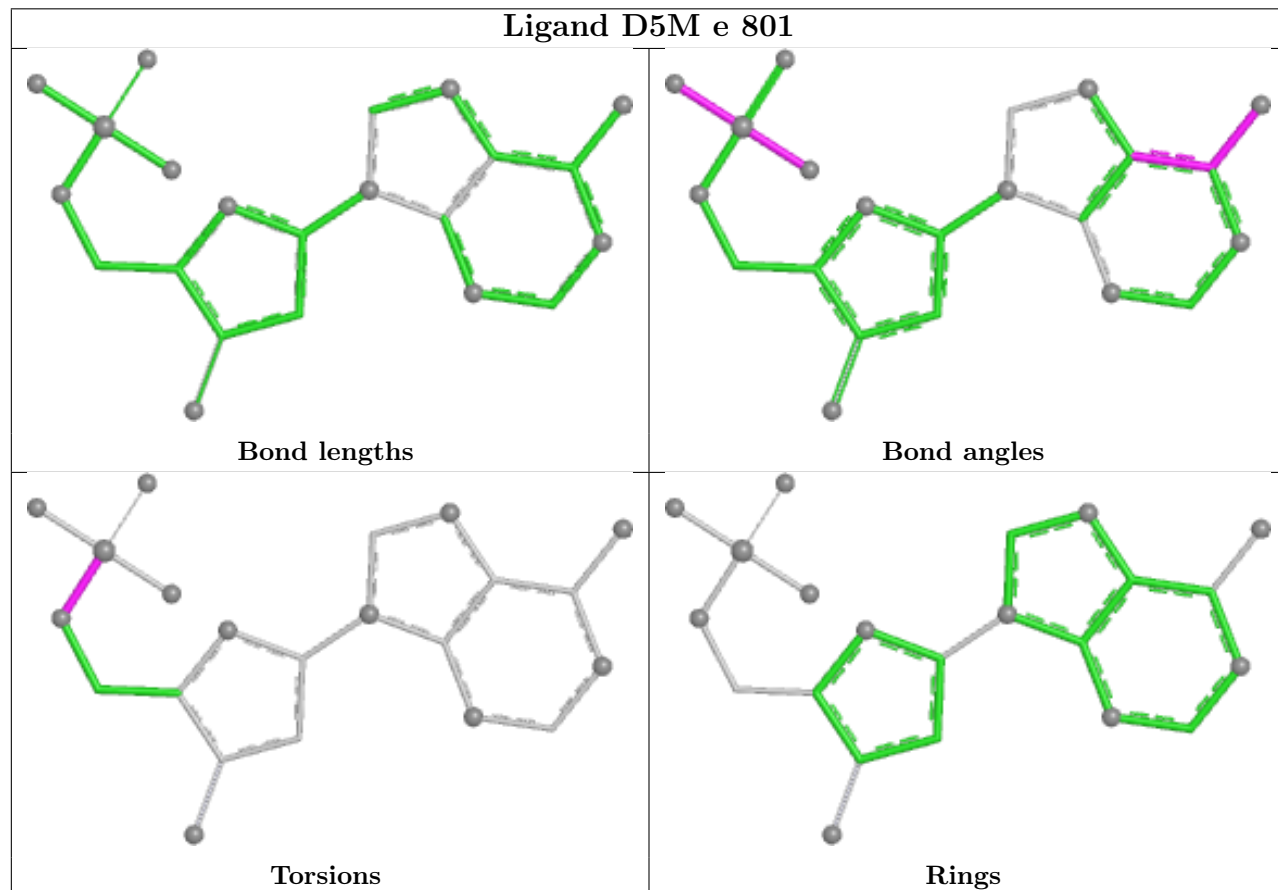


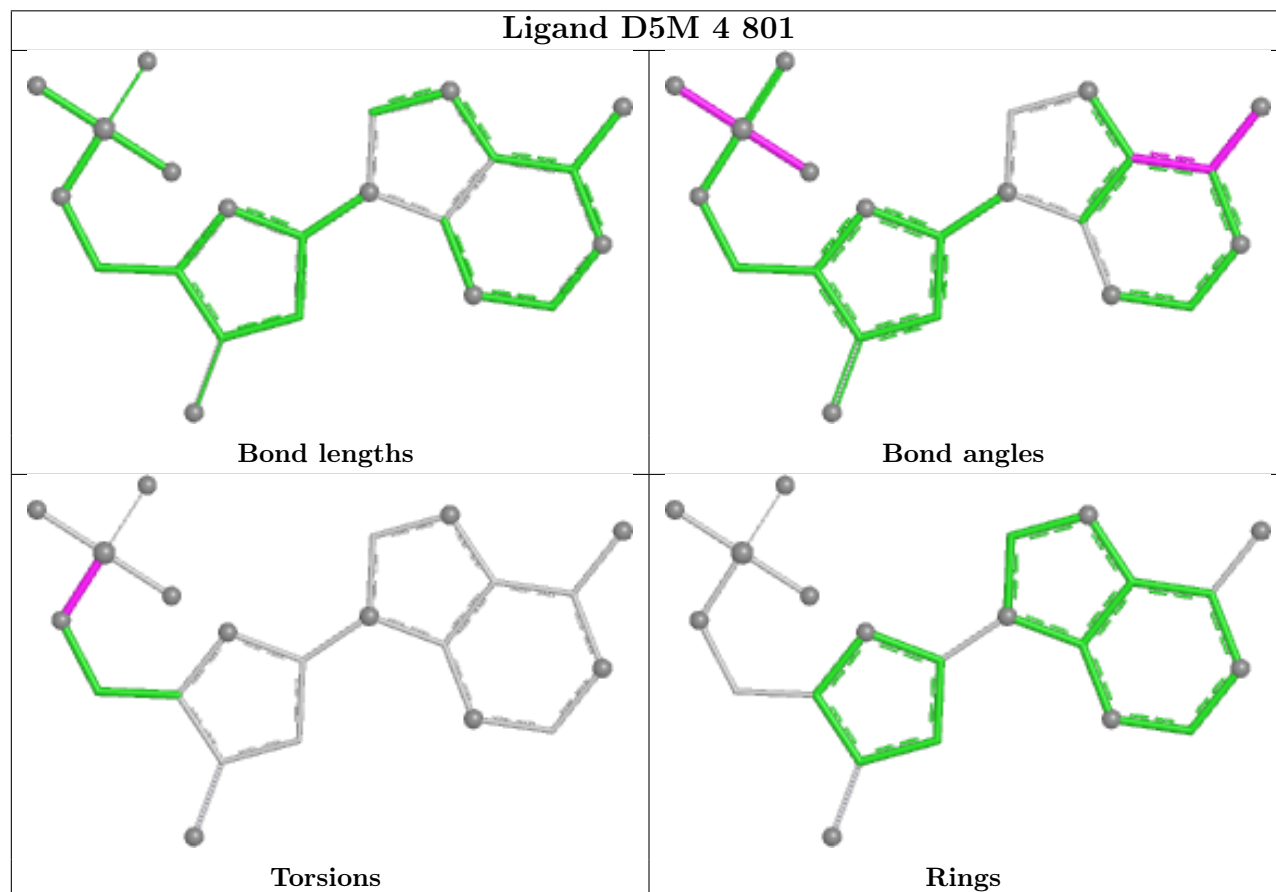
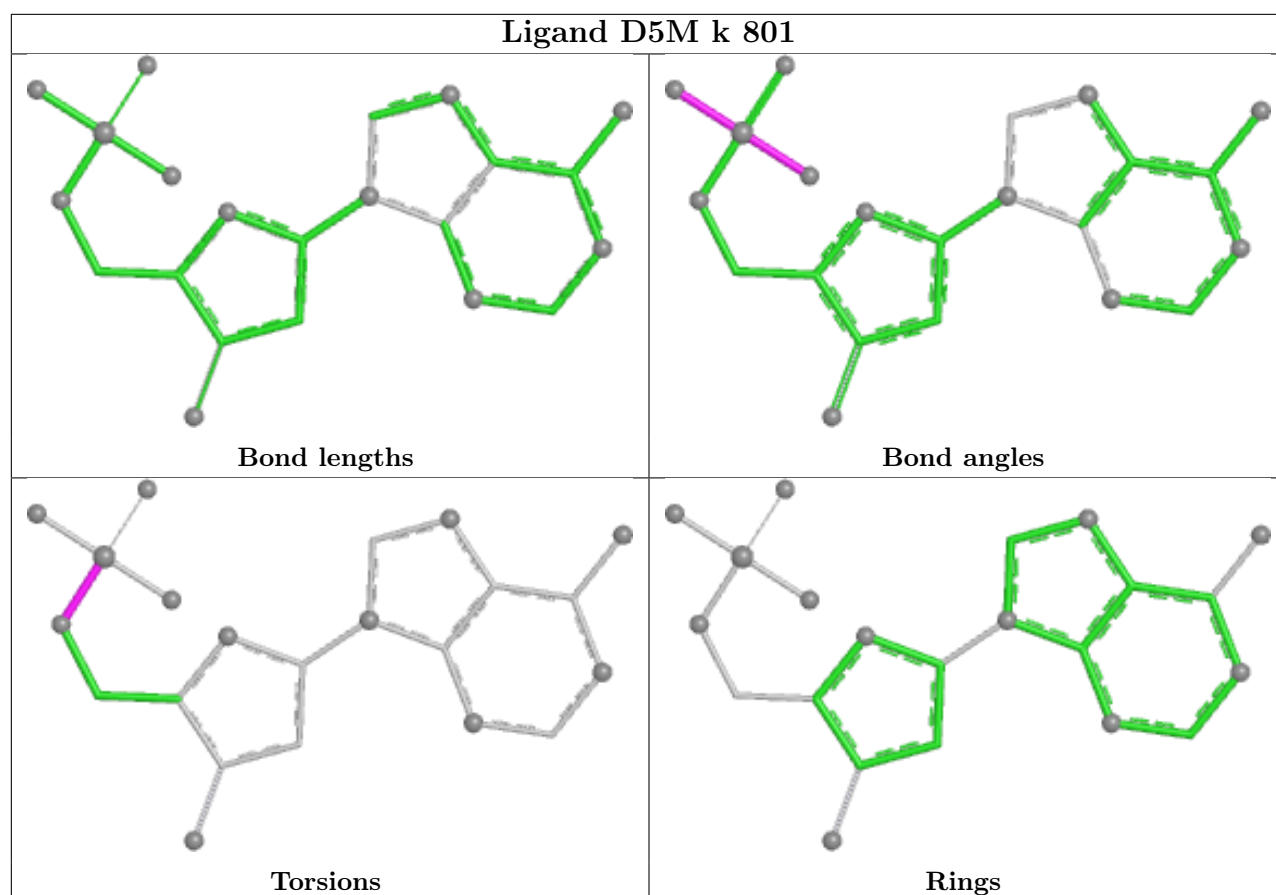


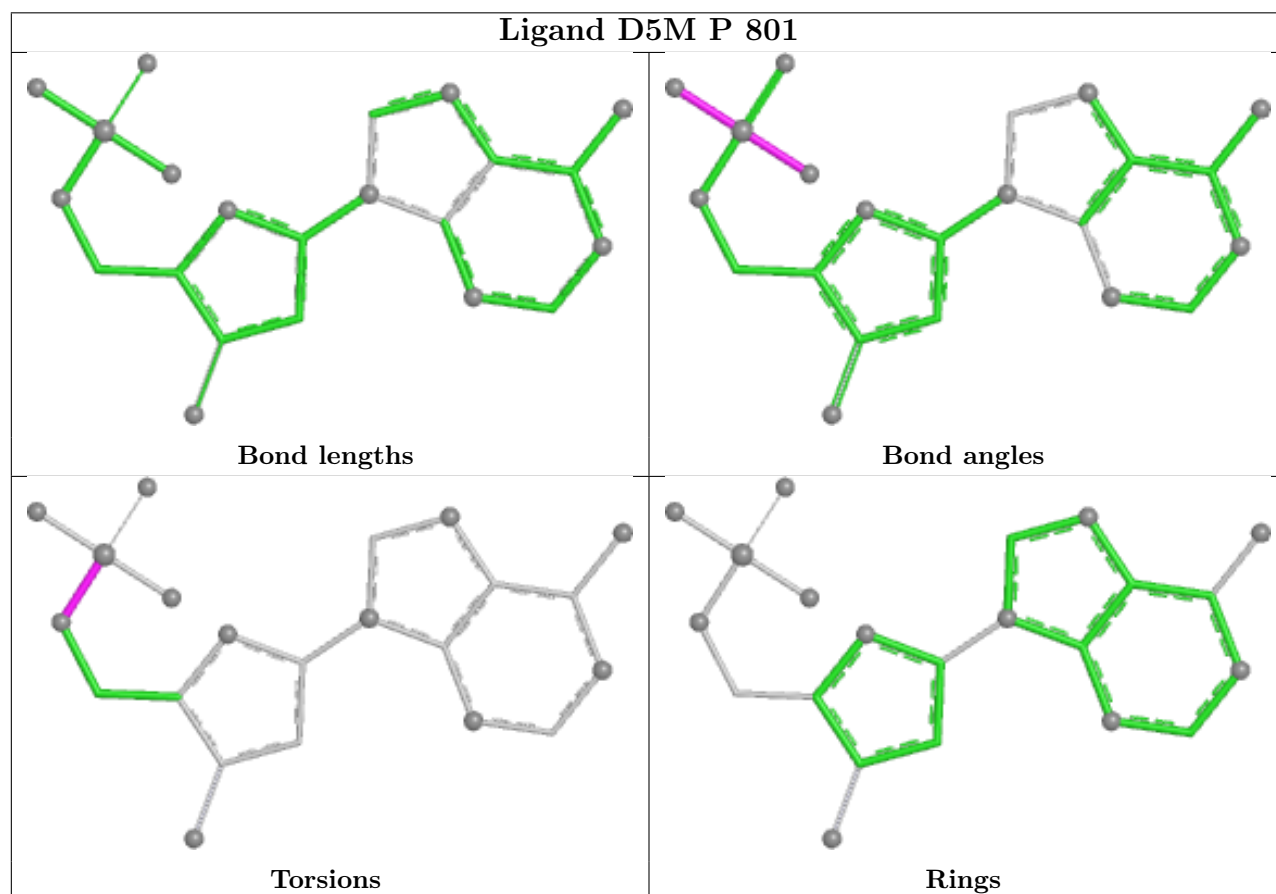
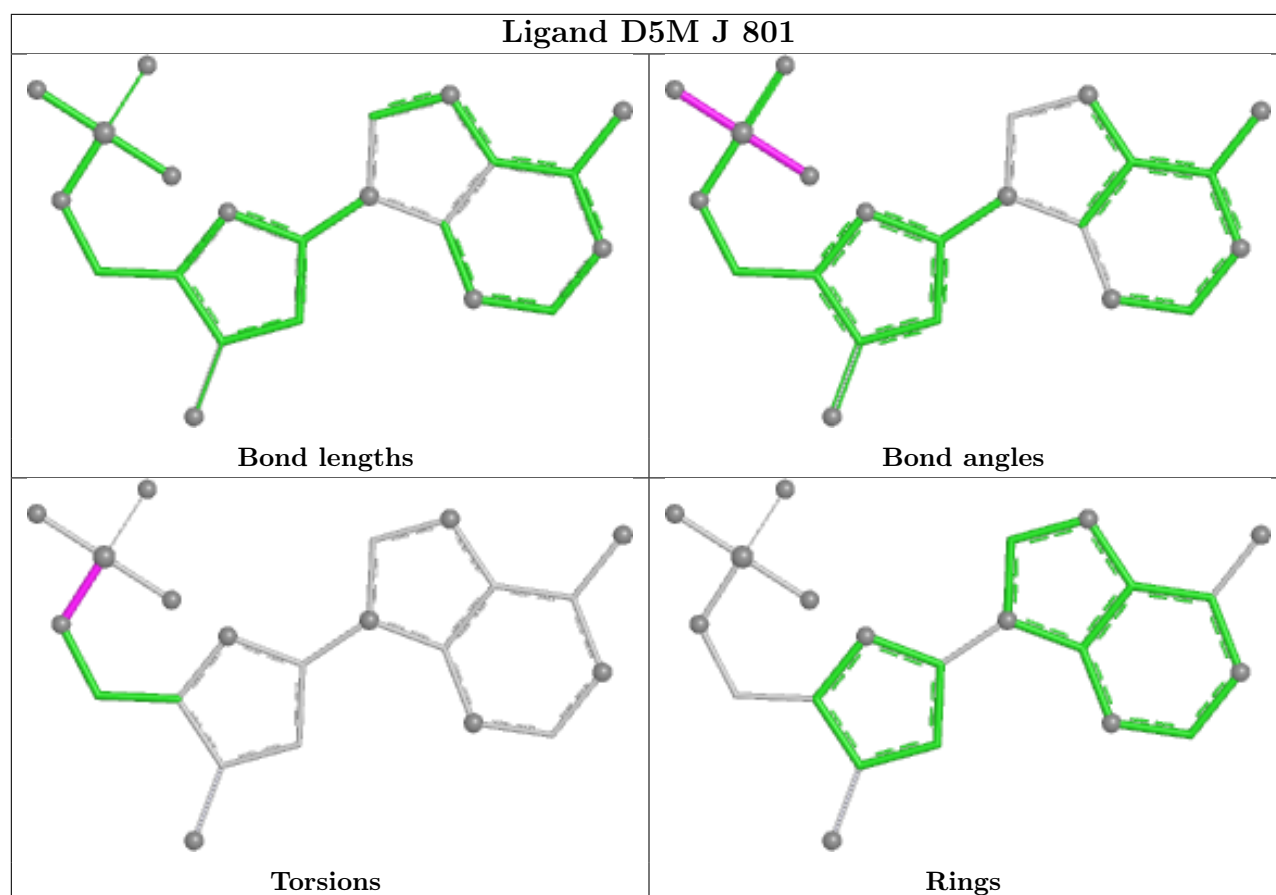
Ligand D5M b 801

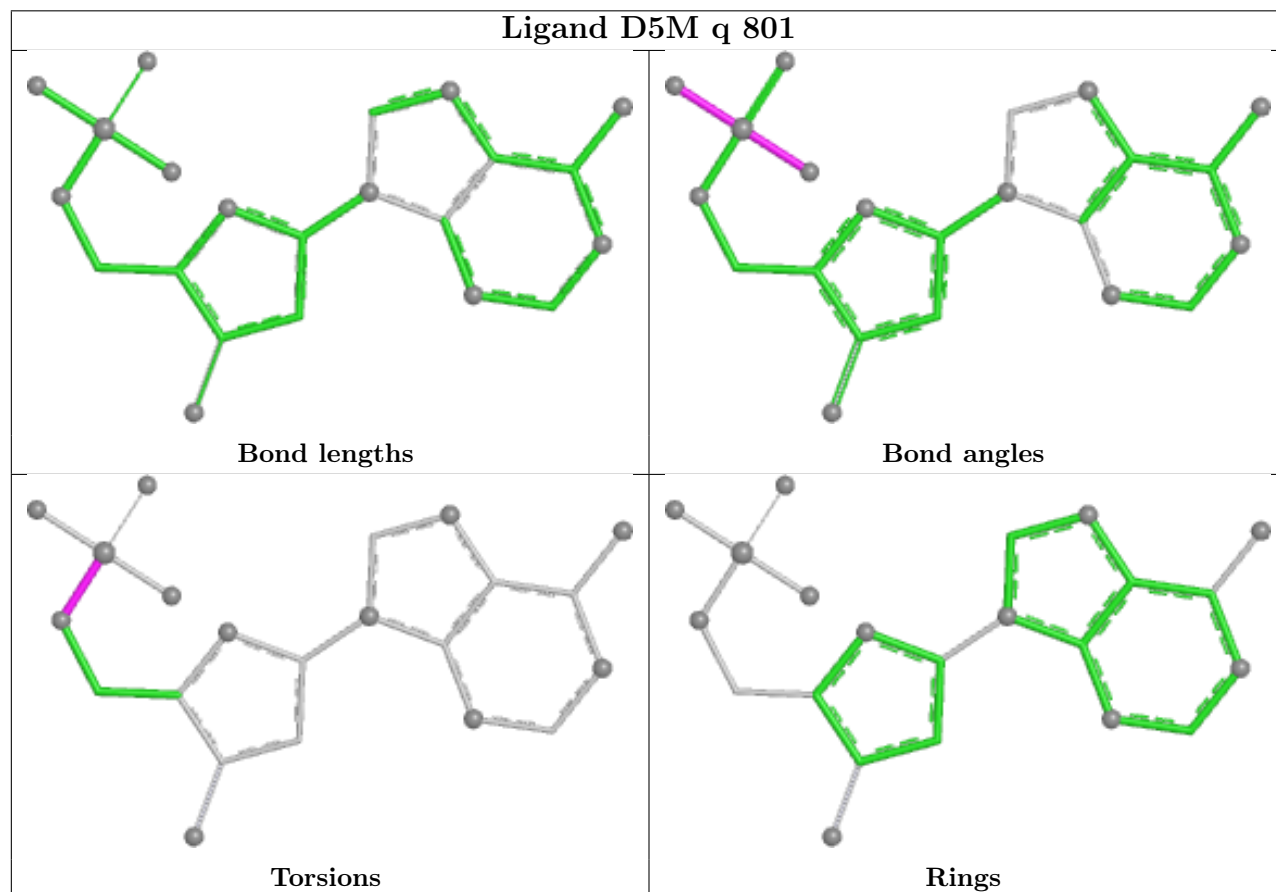
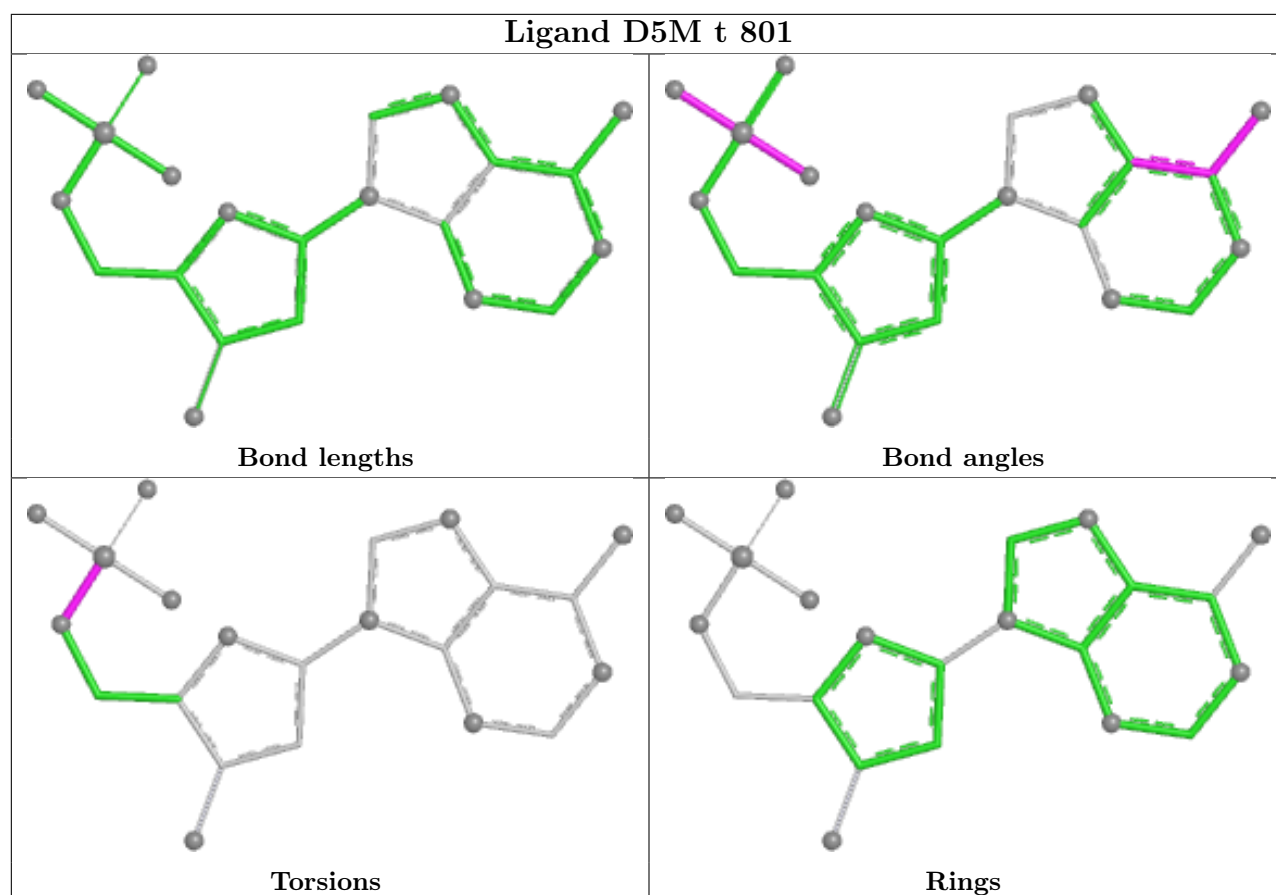


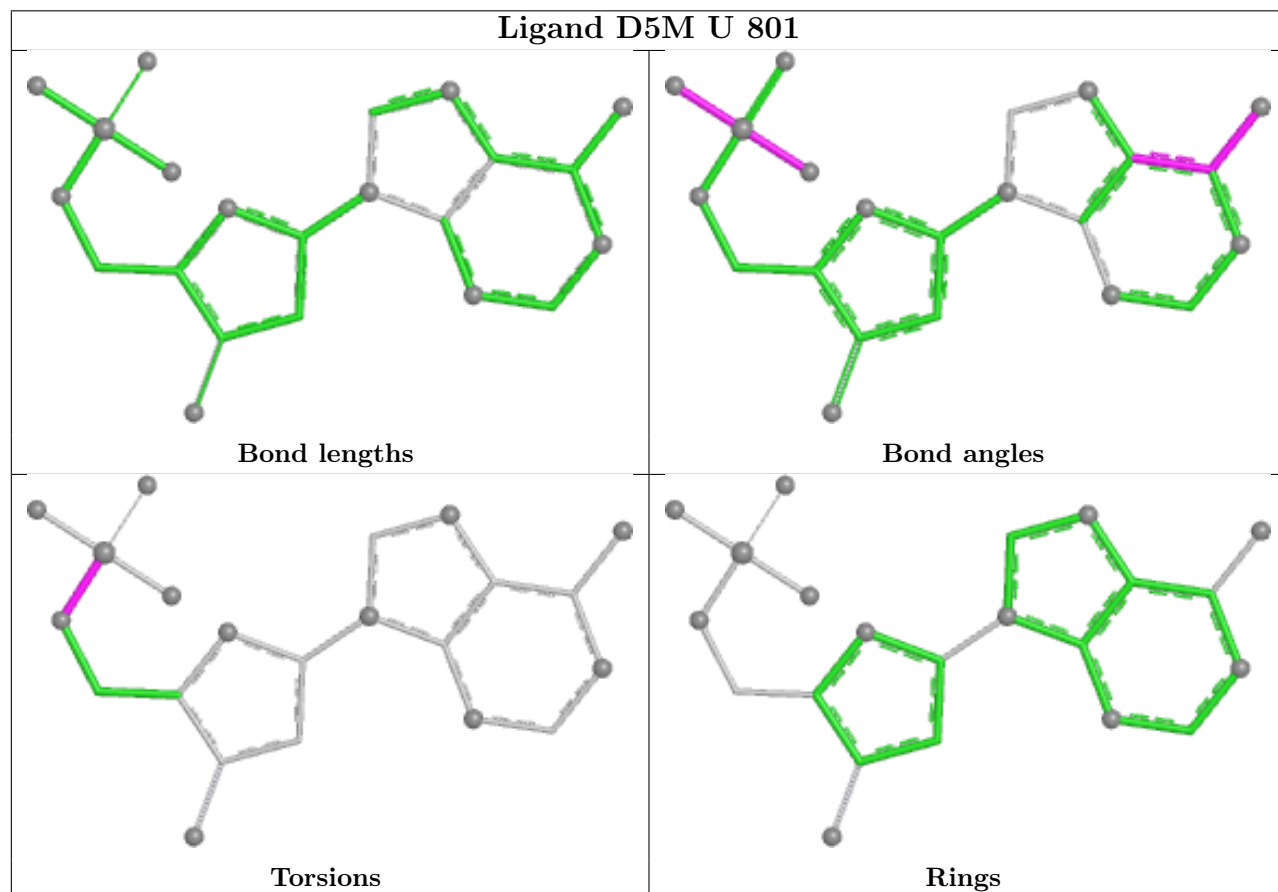
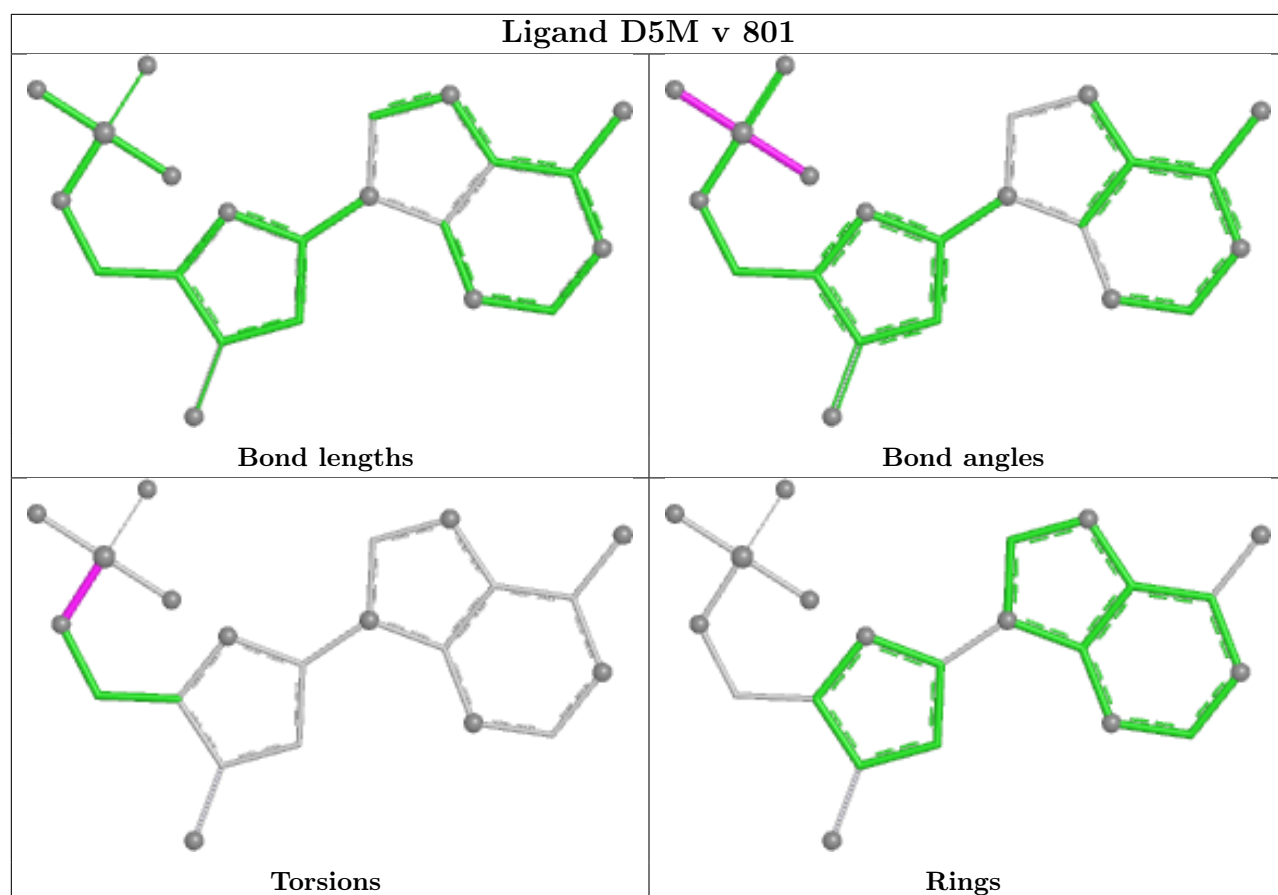
Ligand D5M e 801

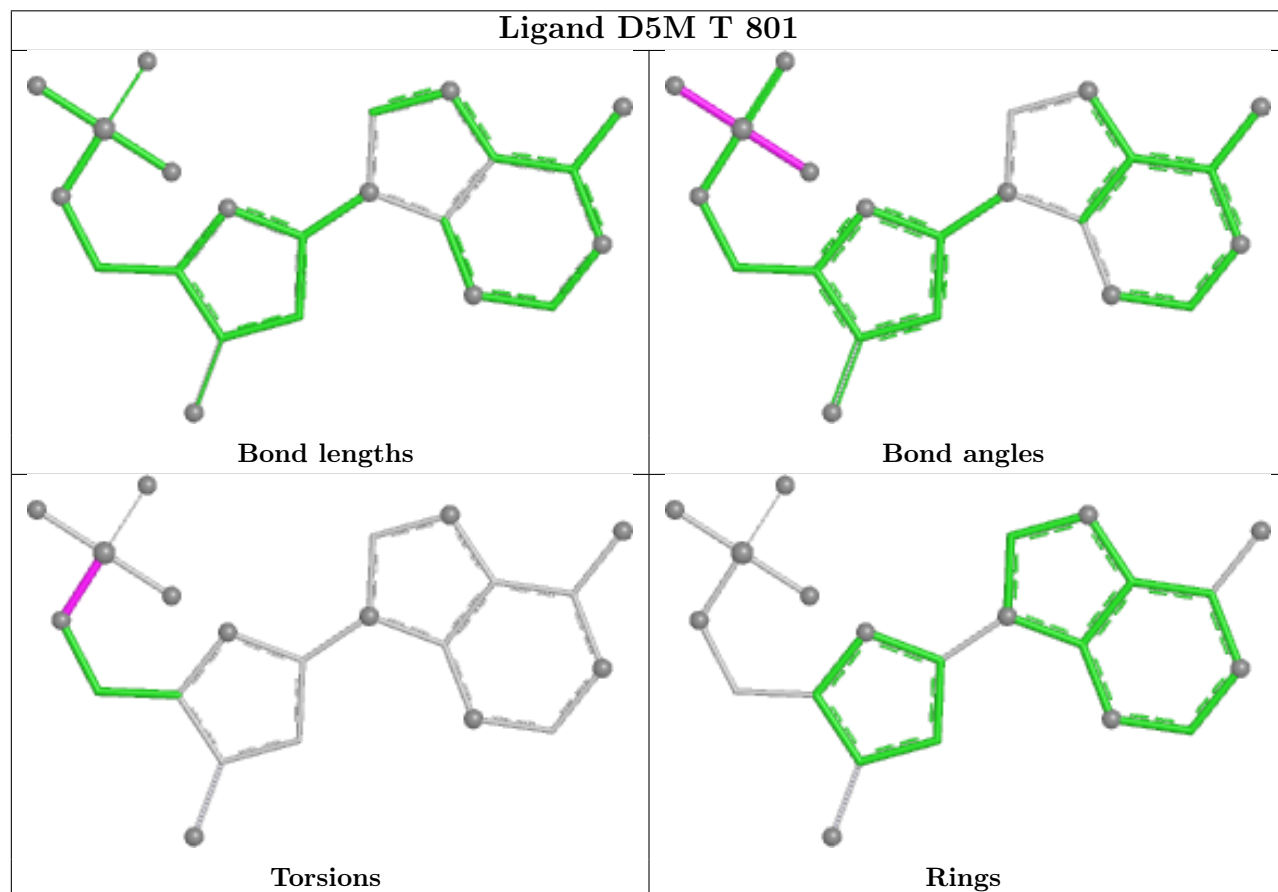
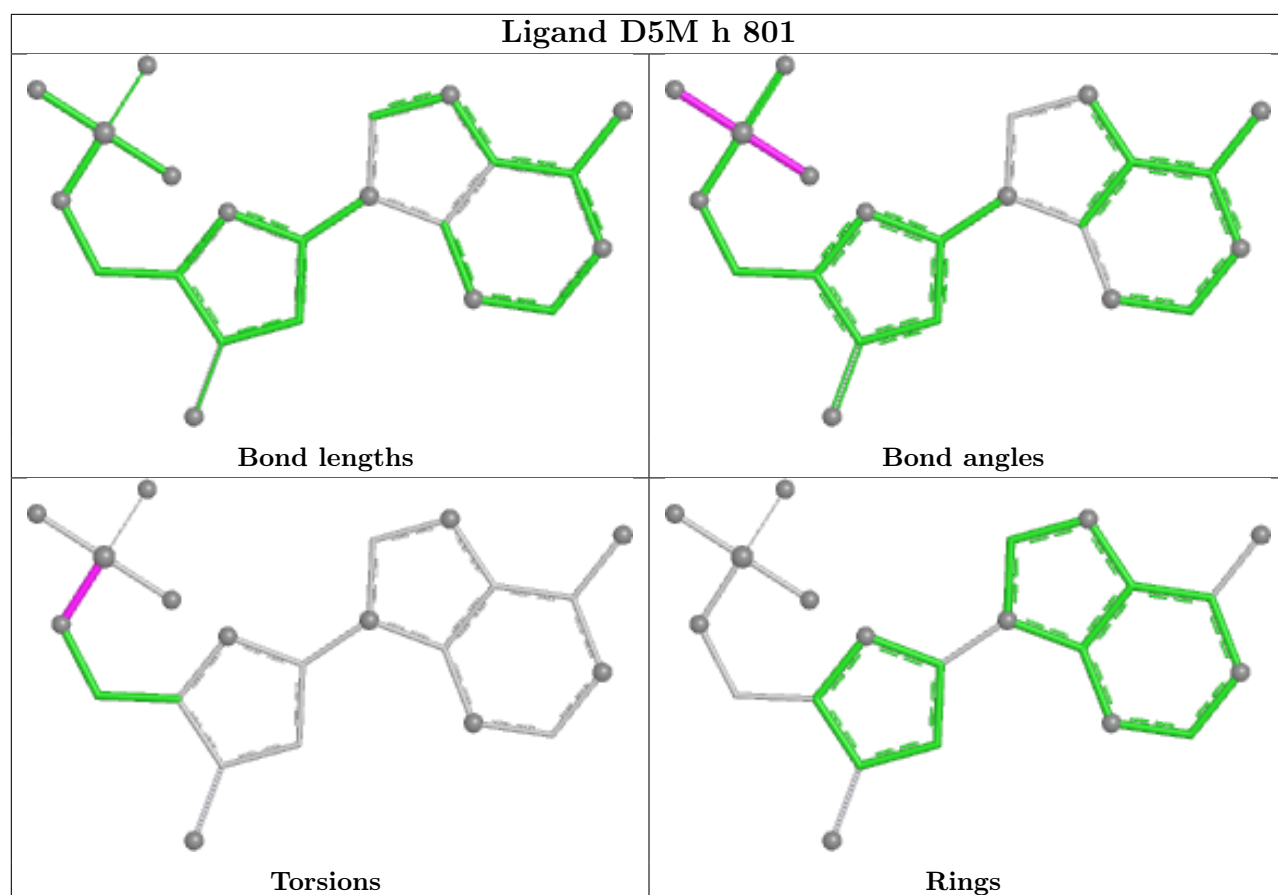


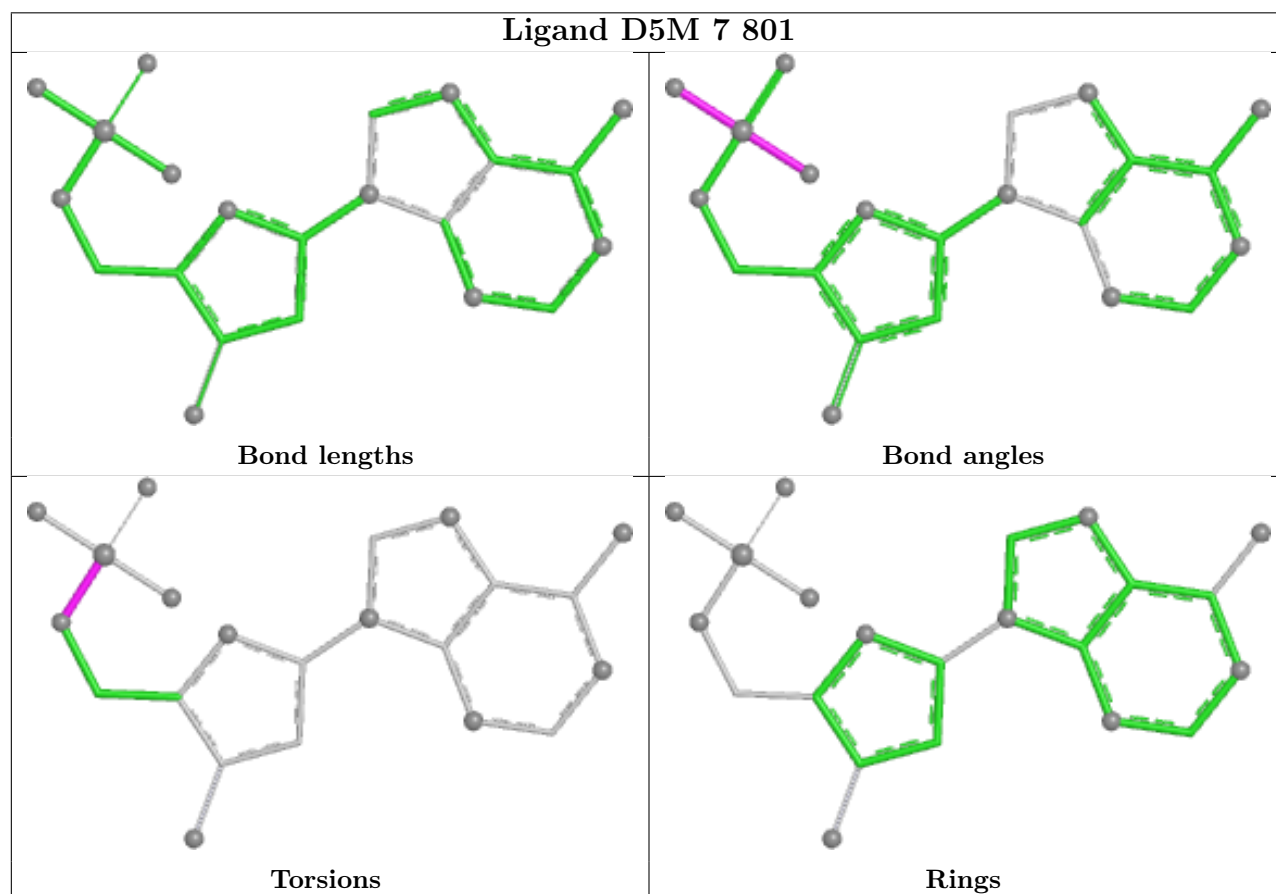
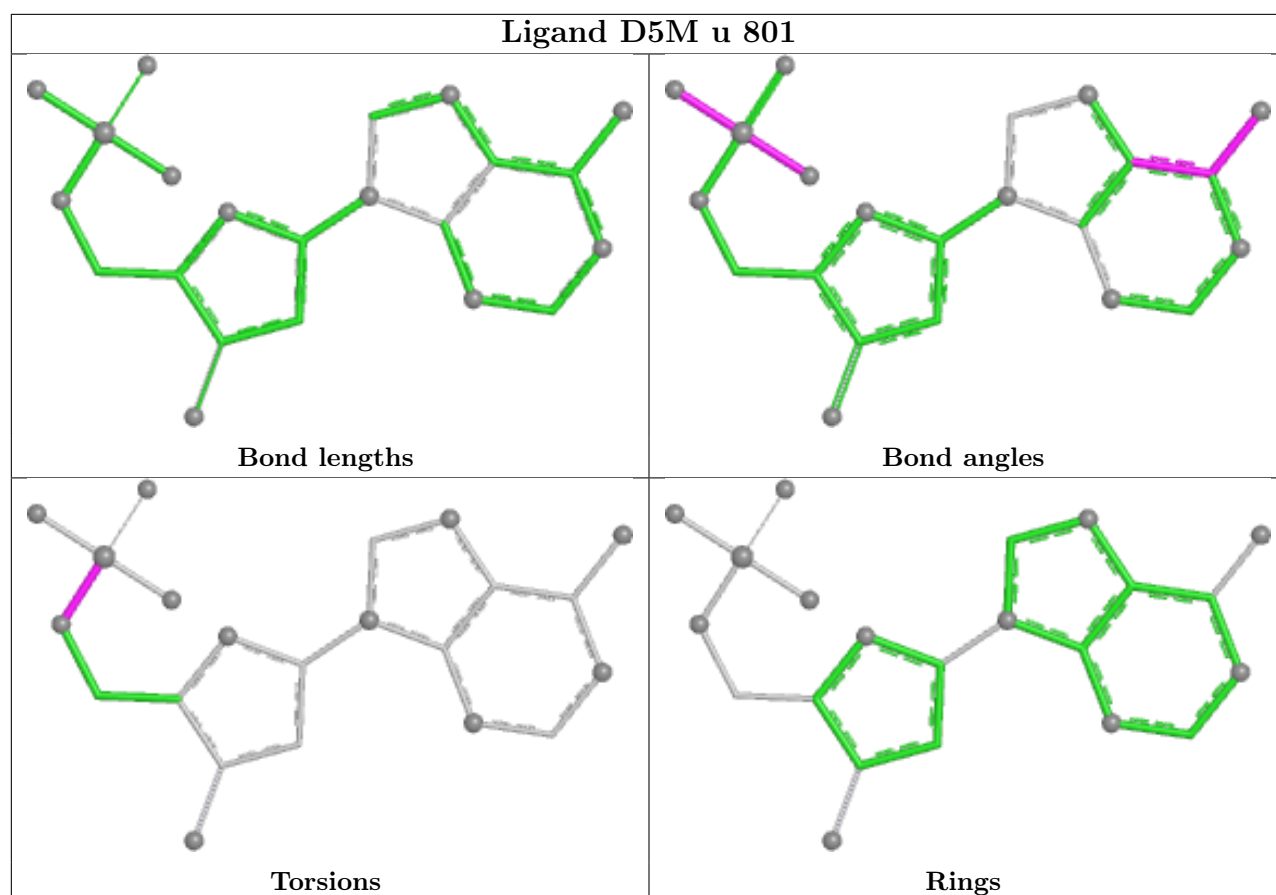


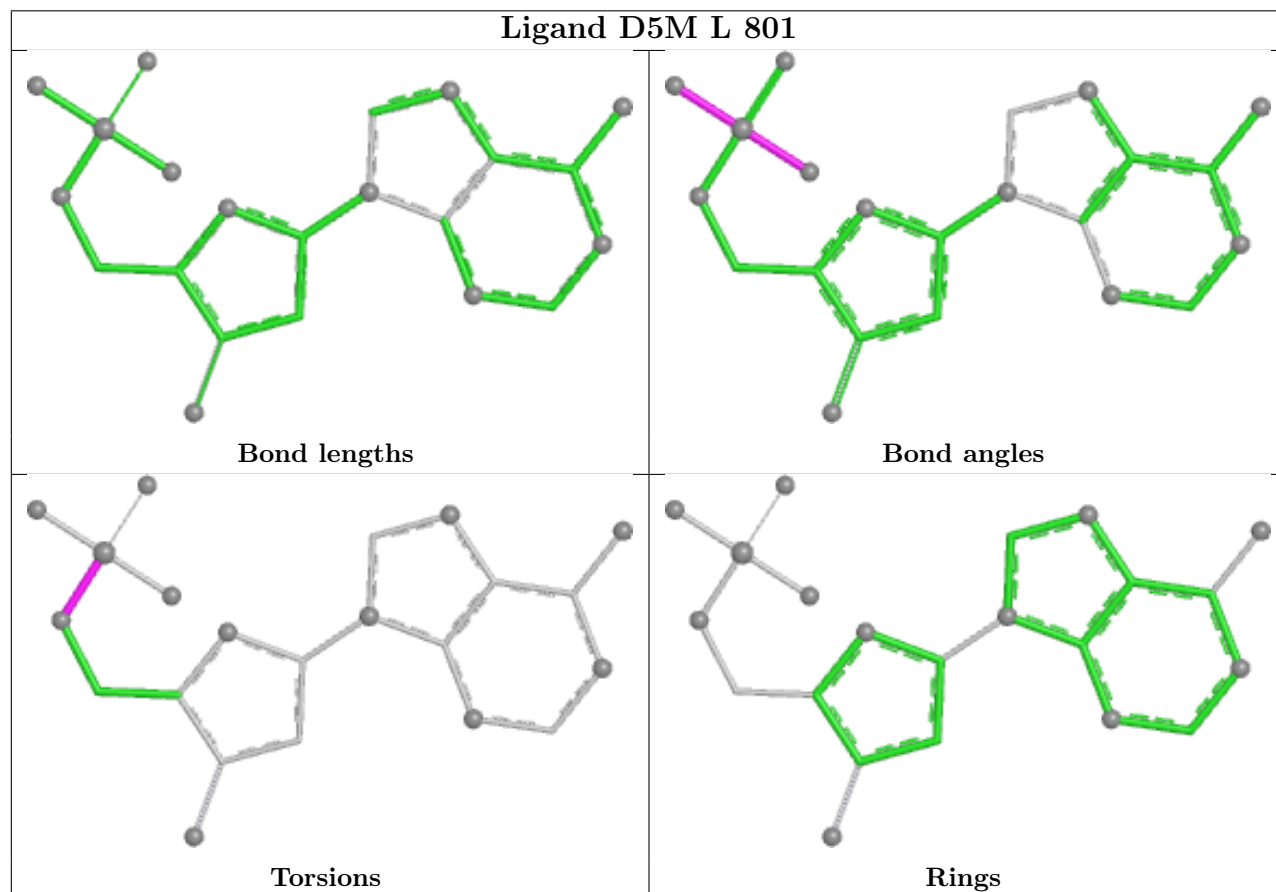
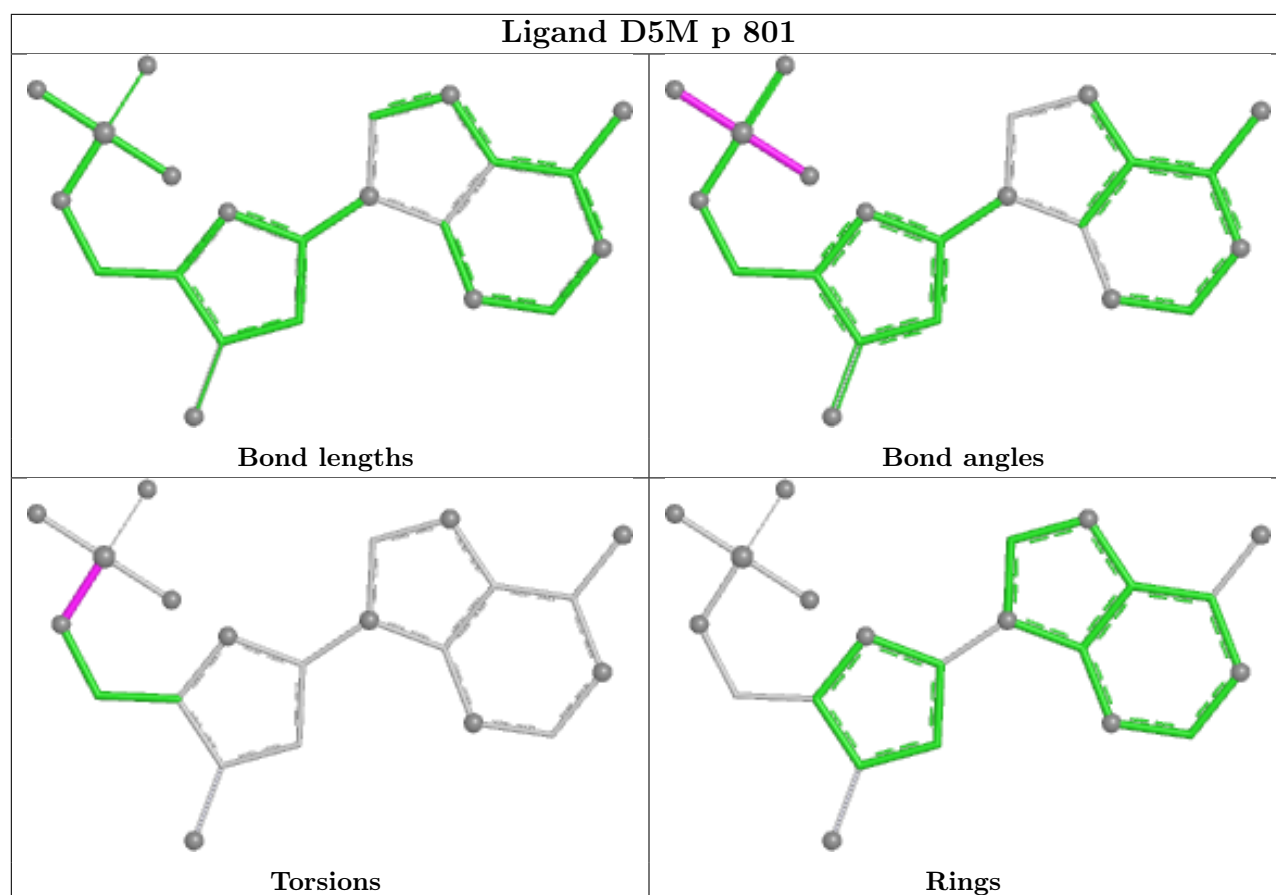


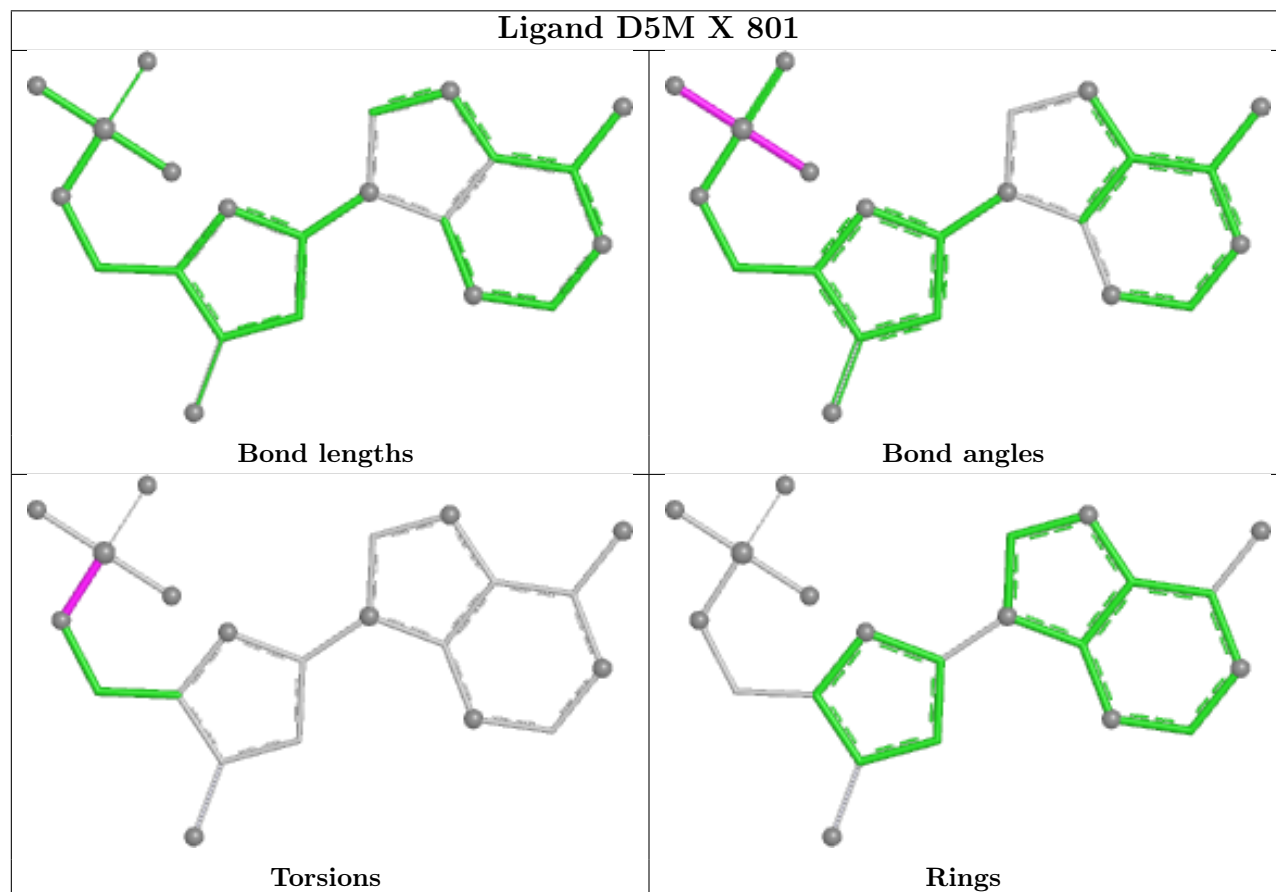
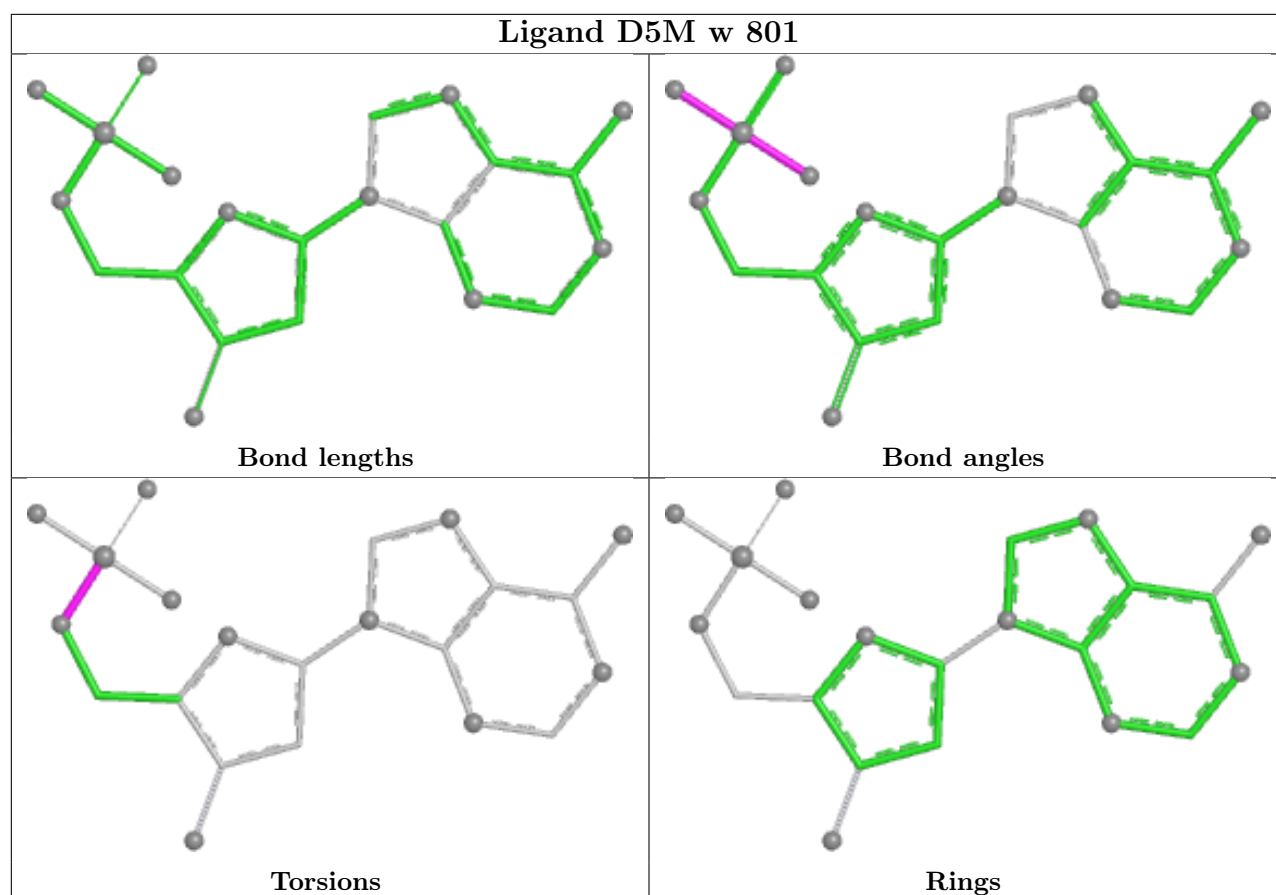


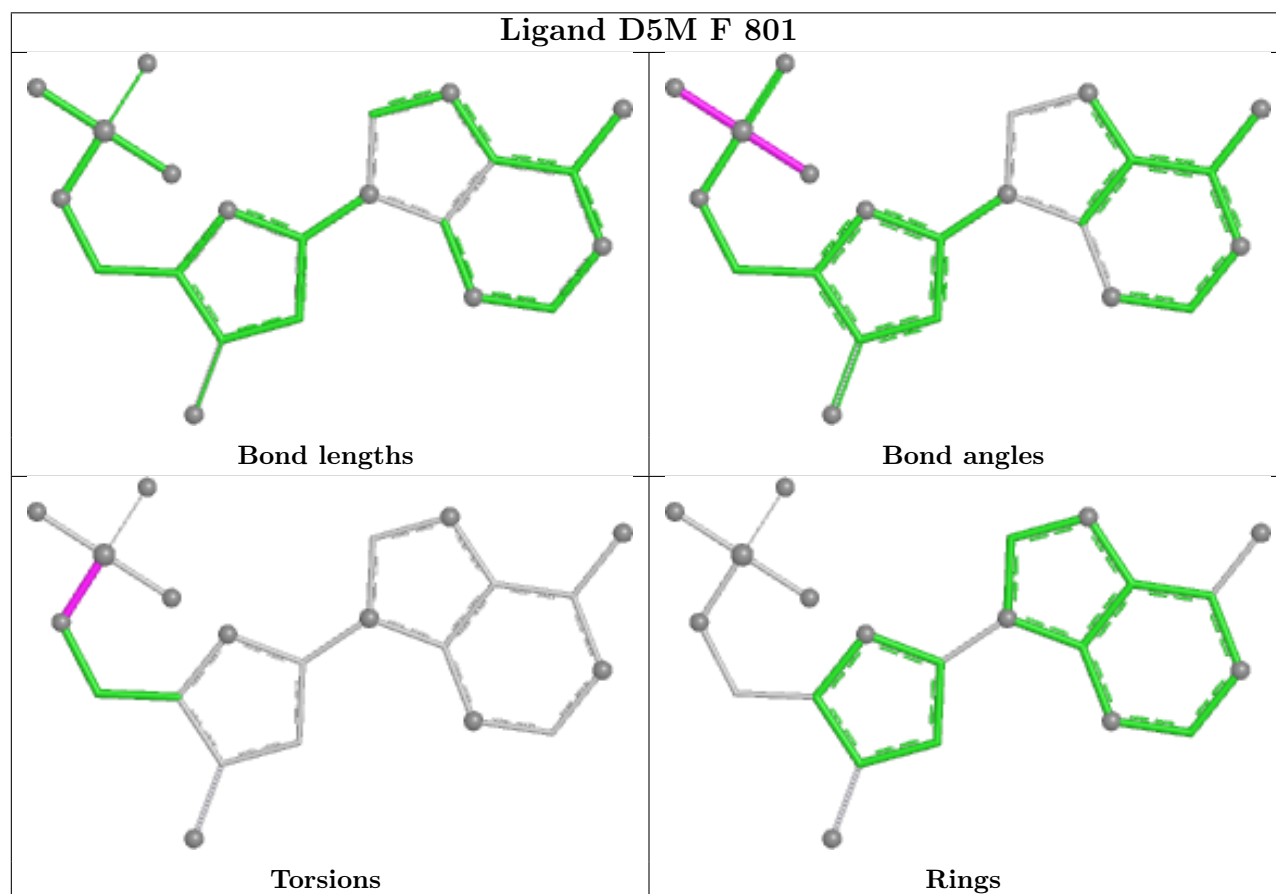
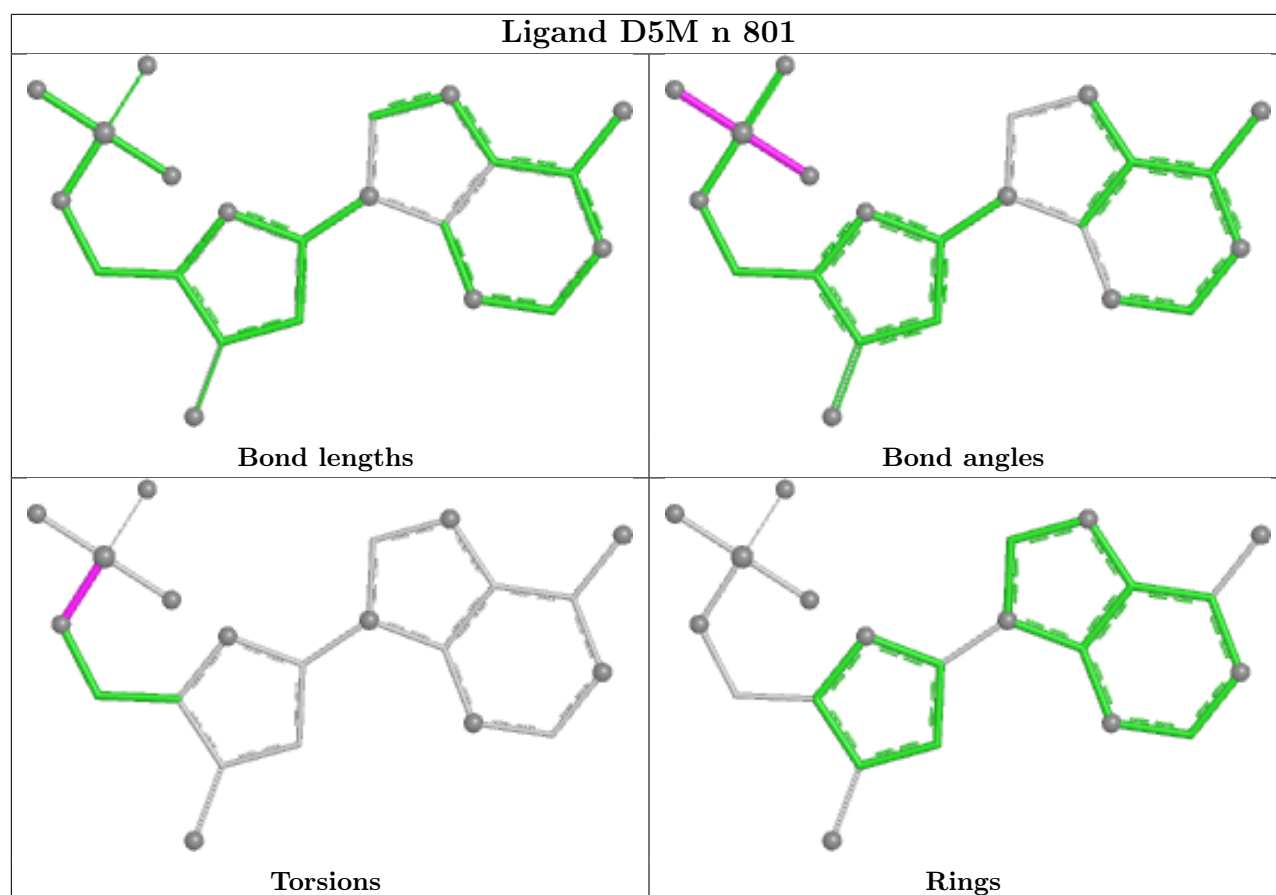


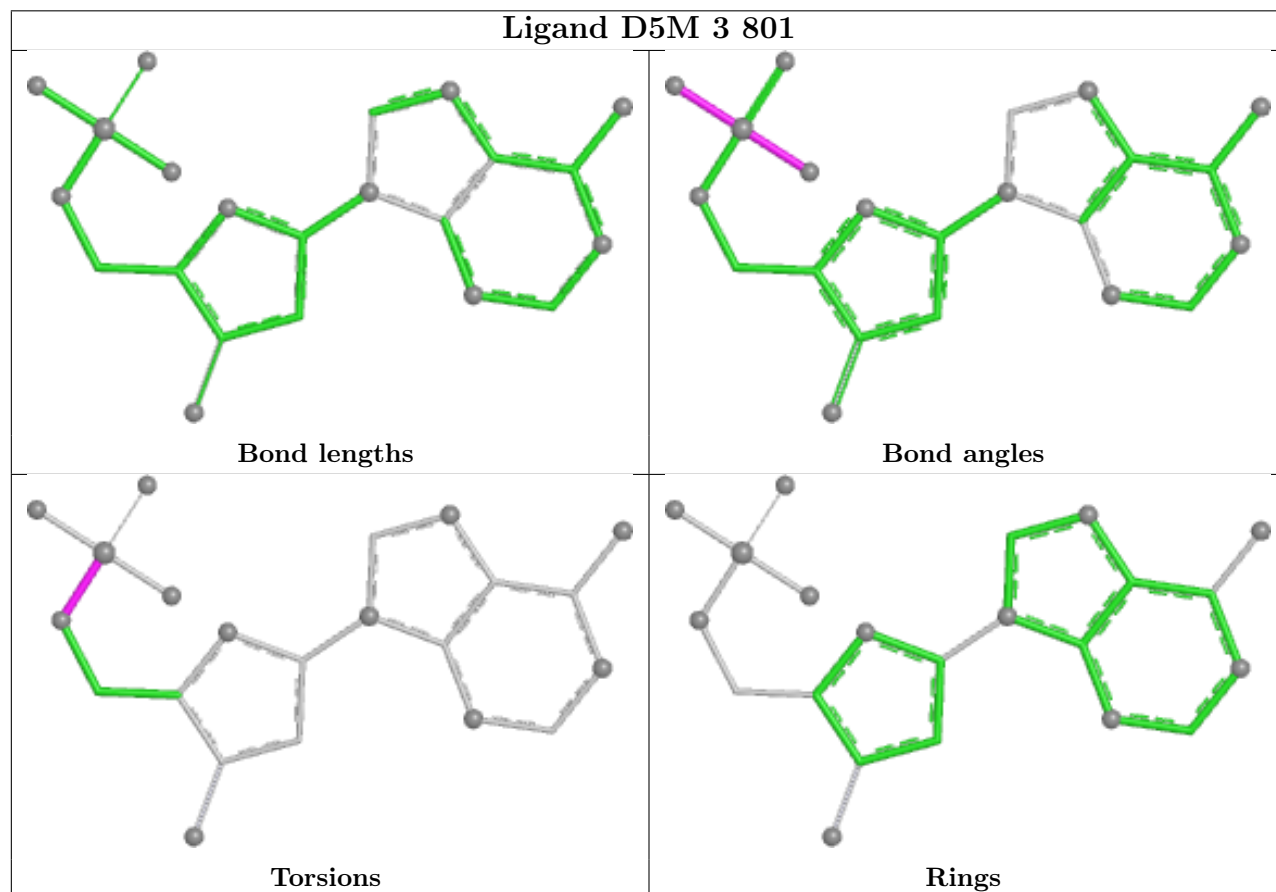
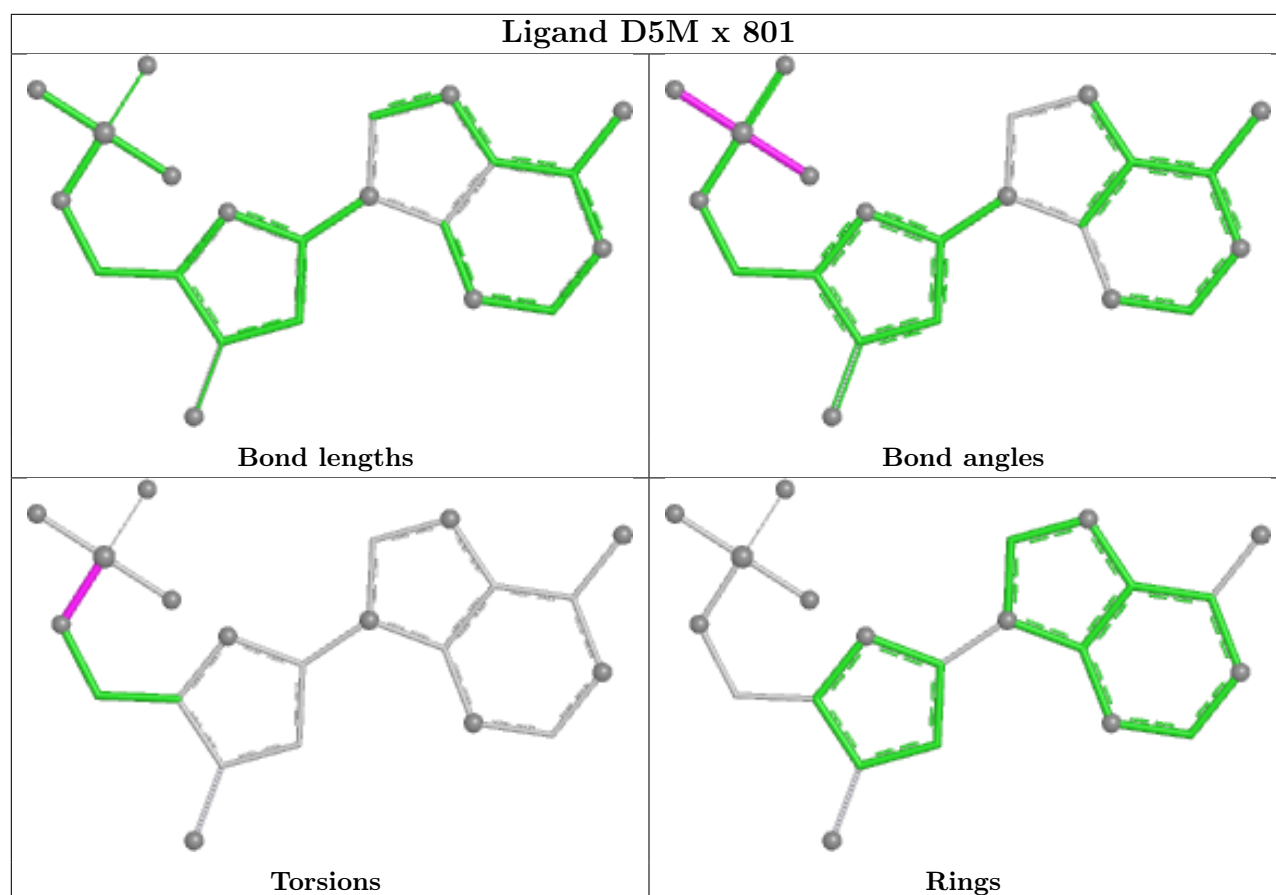


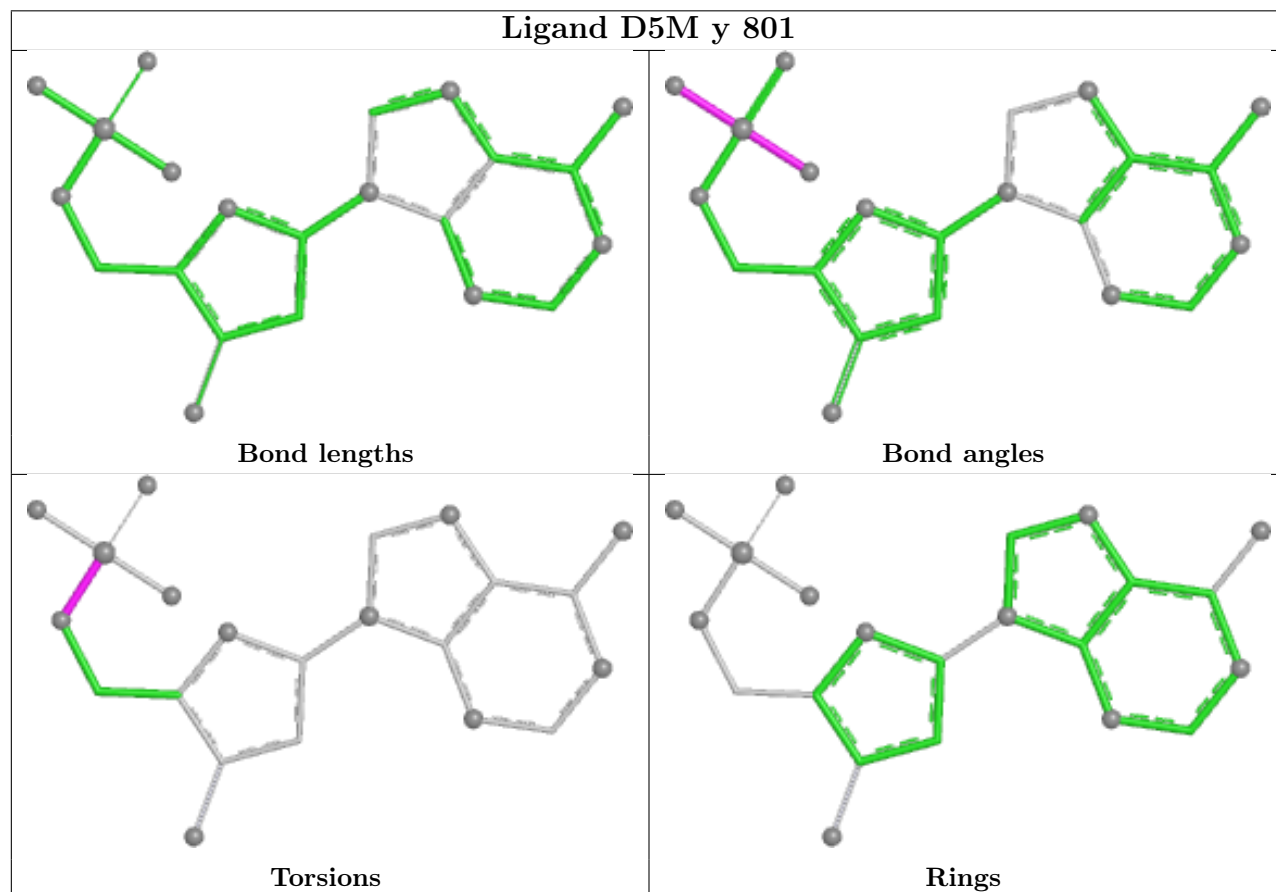
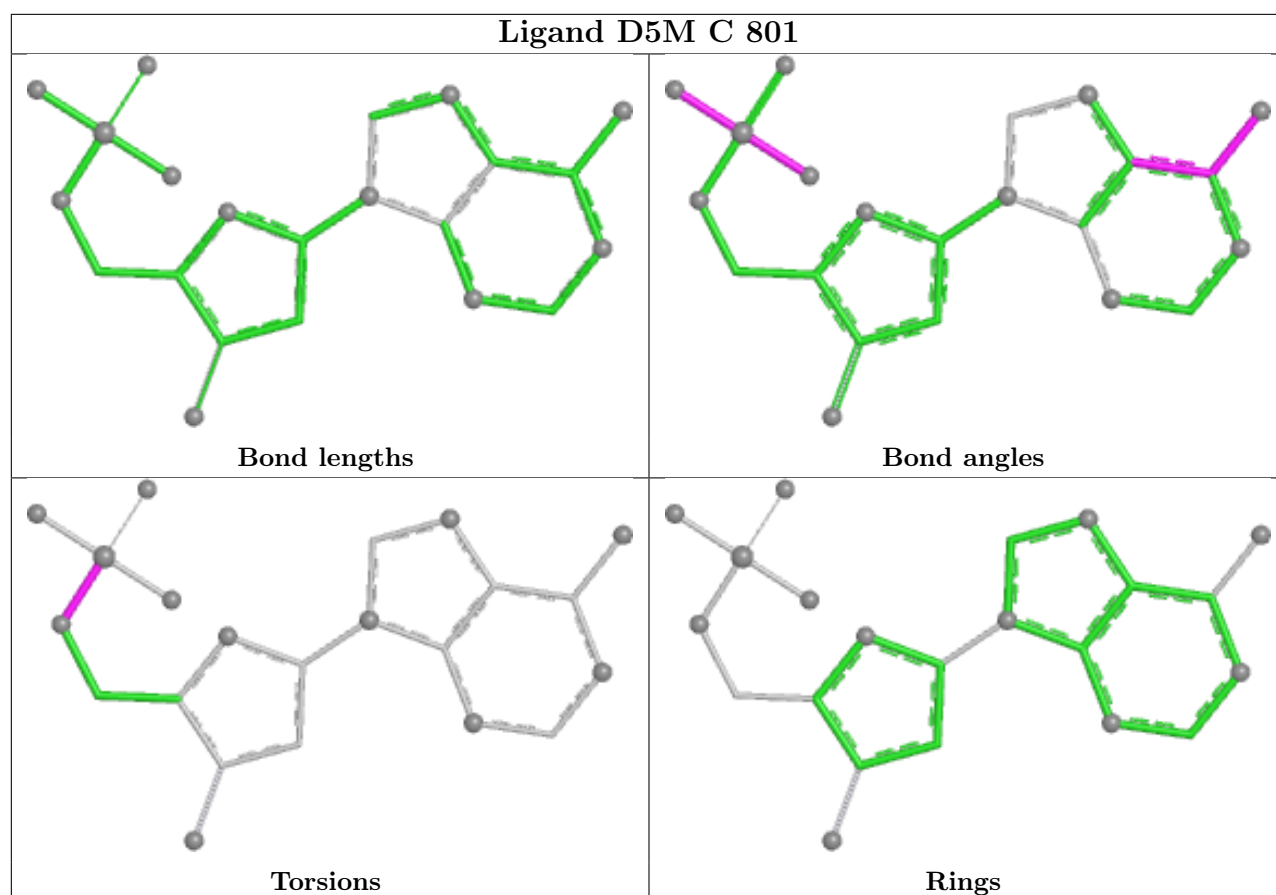


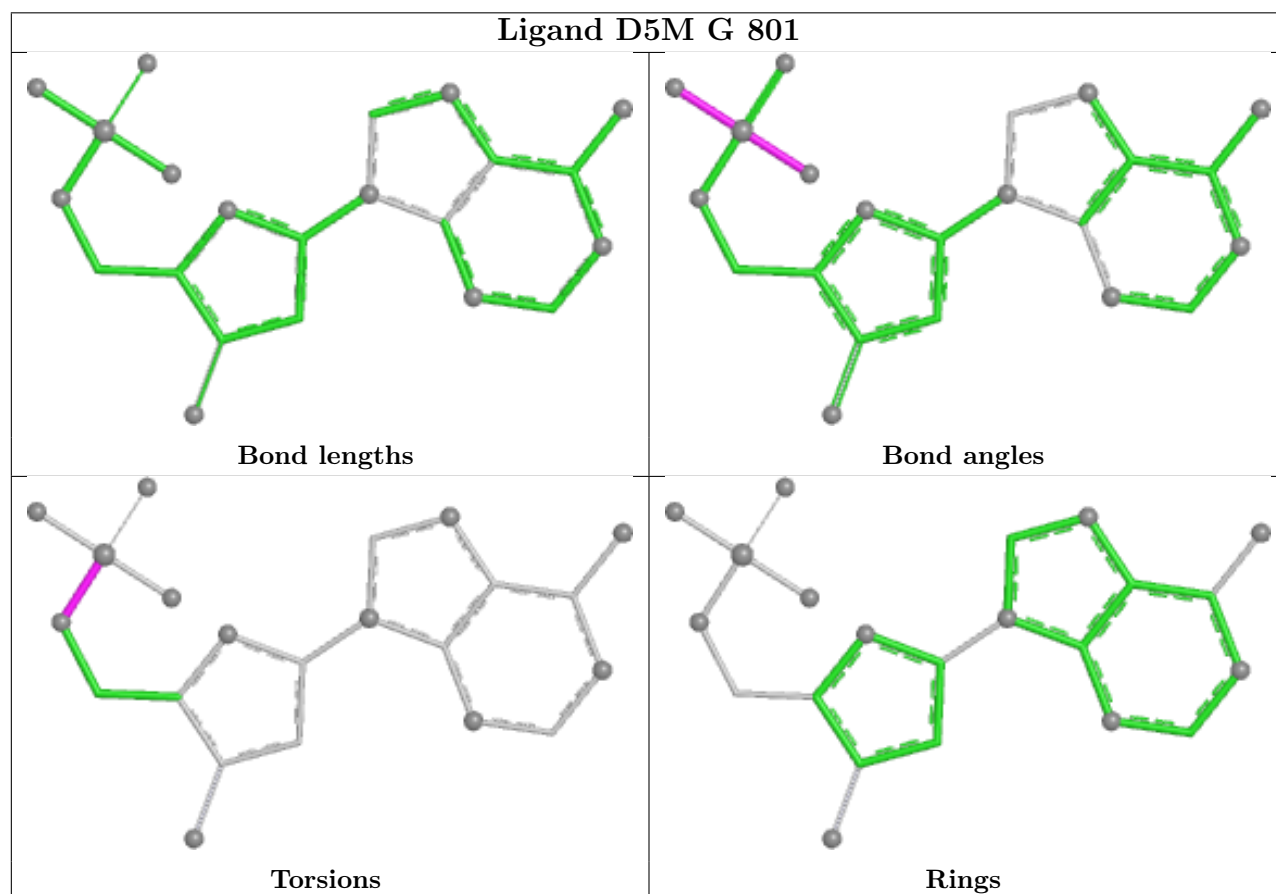
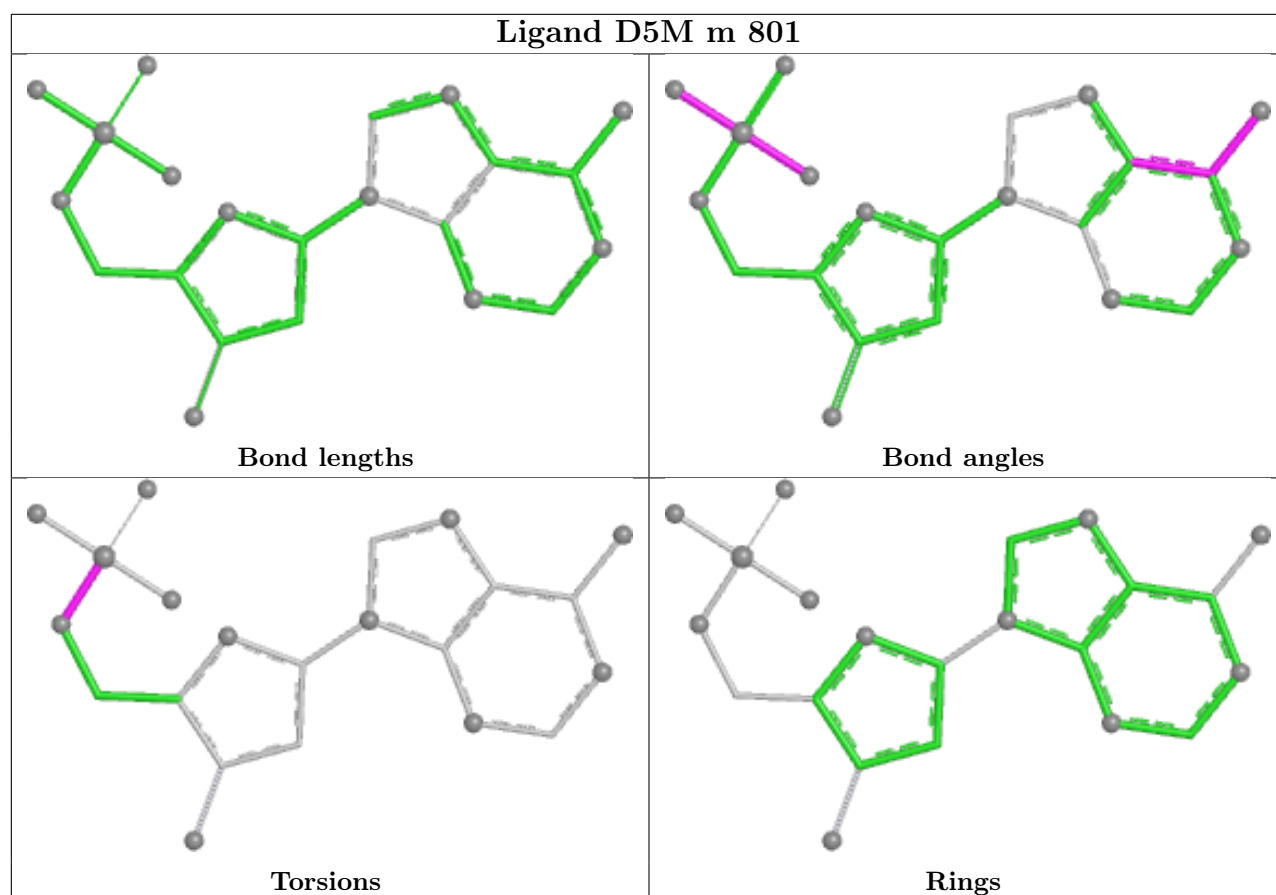


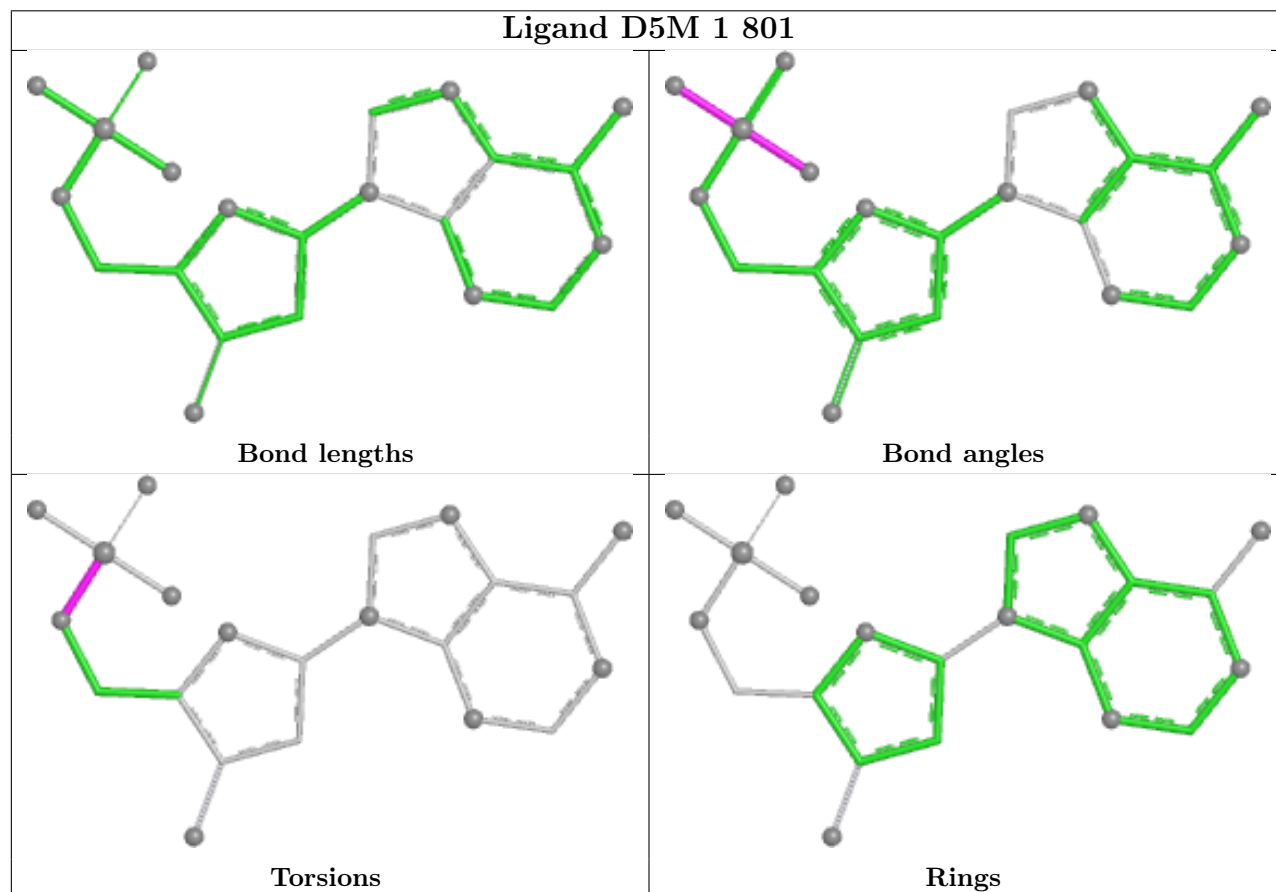
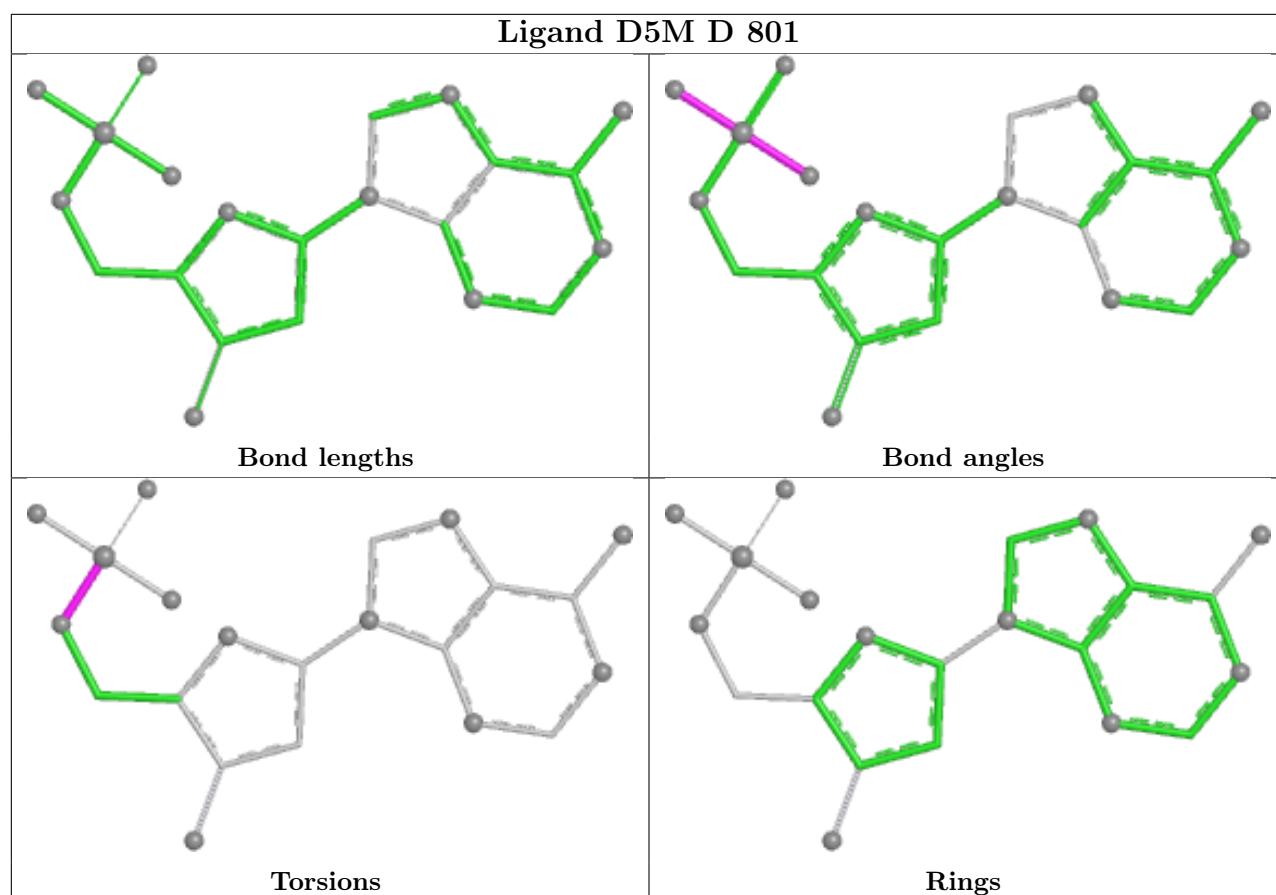


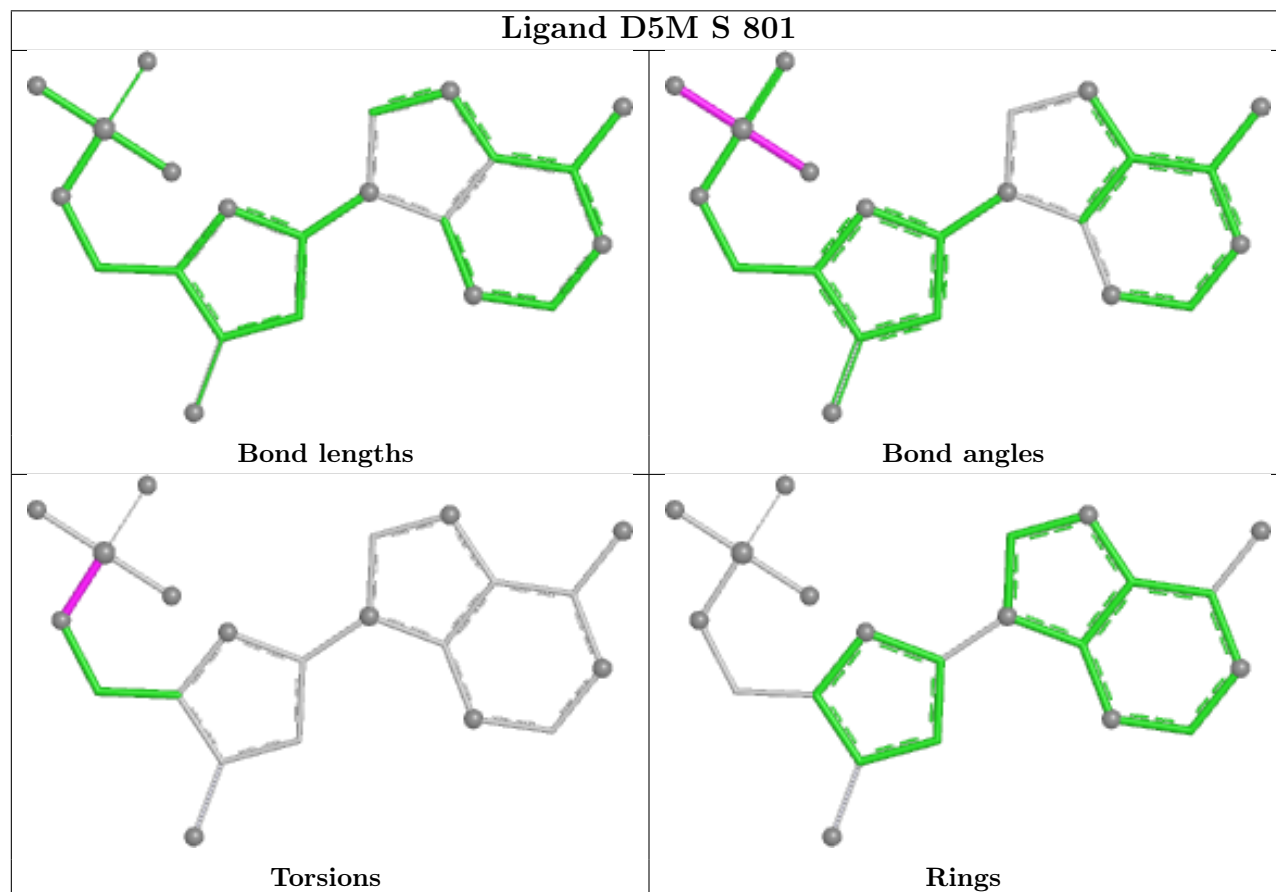
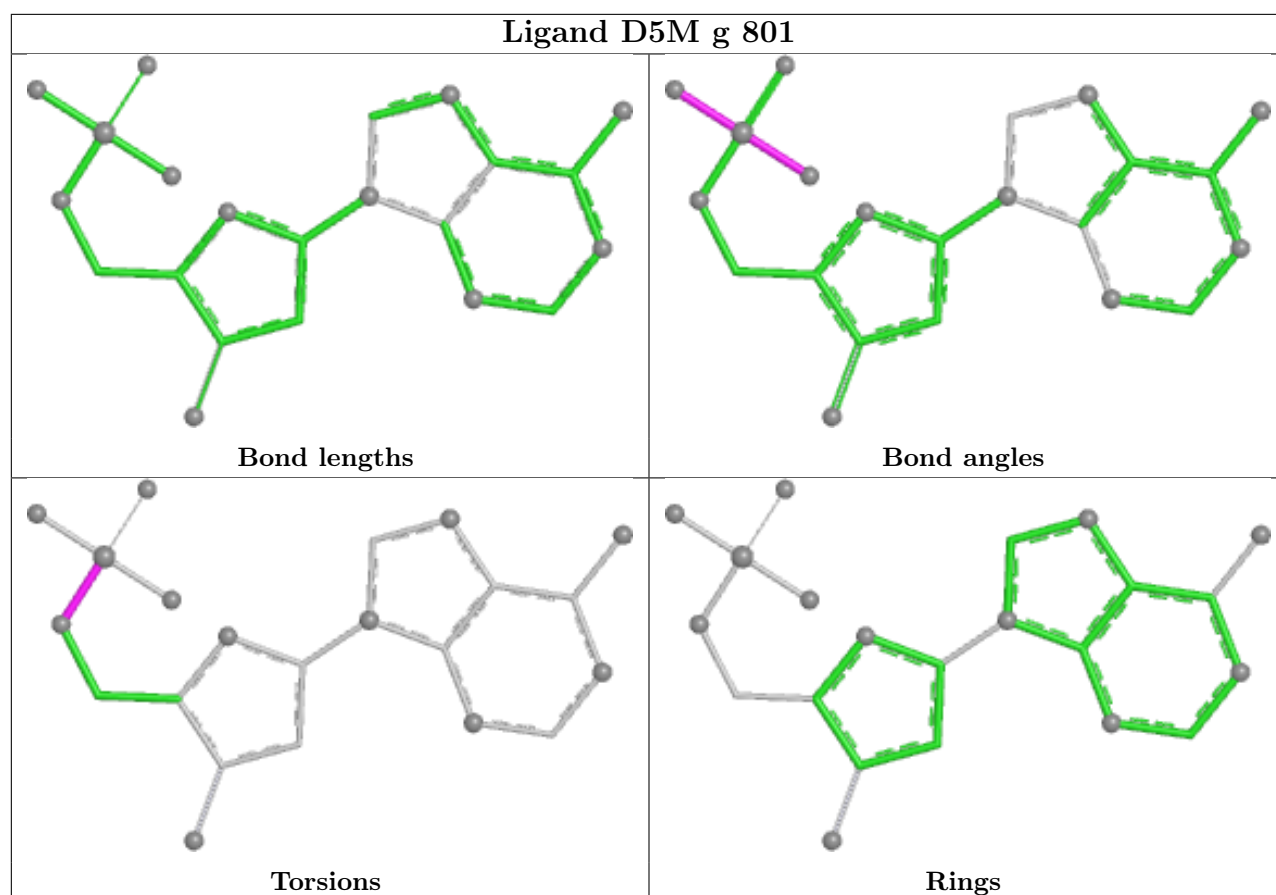


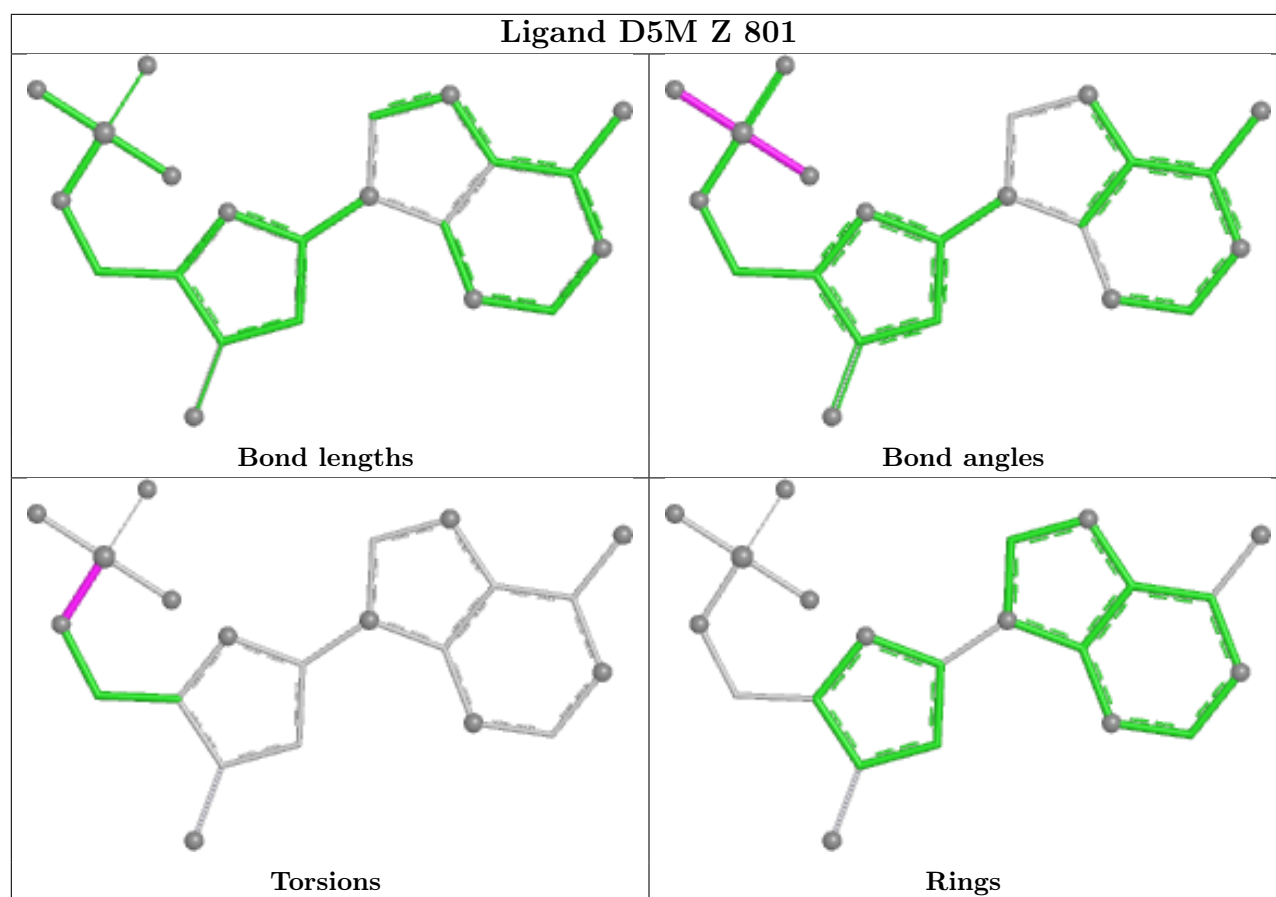












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

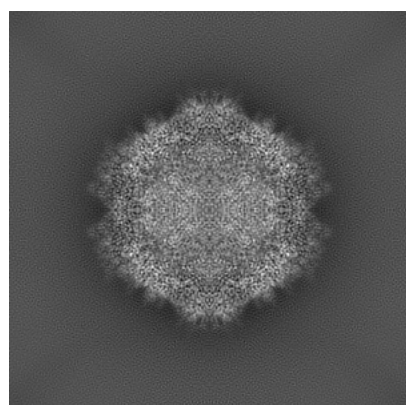
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23204. These allow visual inspection of the internal detail of the map and identification of artifacts.

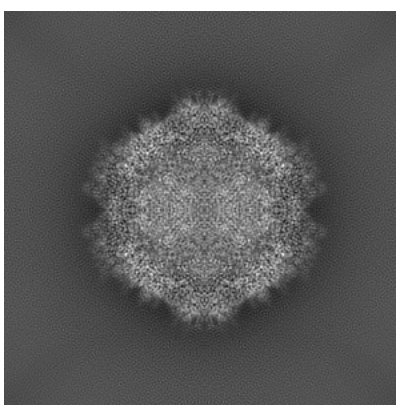
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

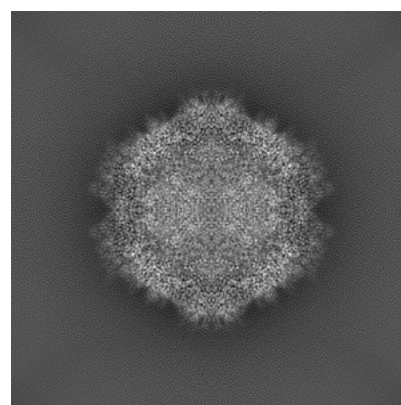
6.1.1 Primary map



X



Y

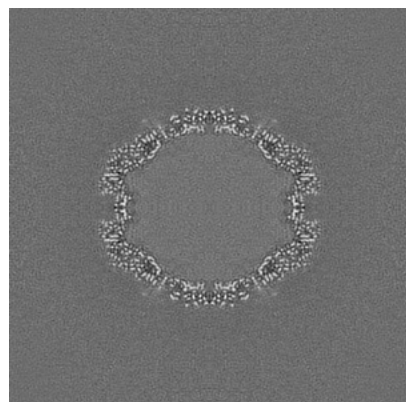


Z

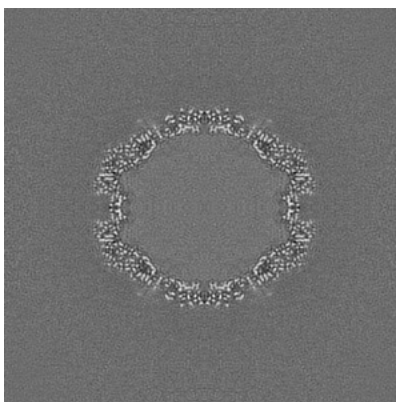
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

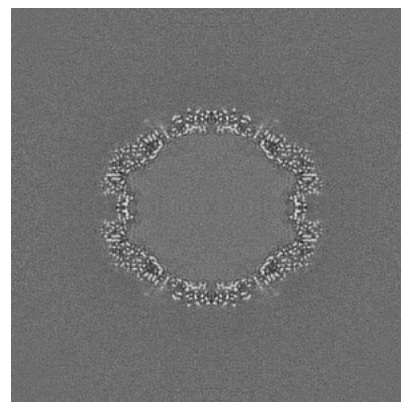
6.2.1 Primary map



X Index: 210



Y Index: 210

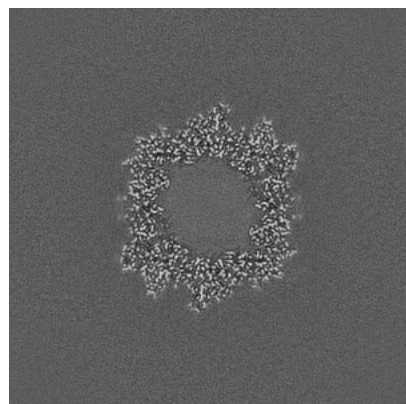


Z Index: 210

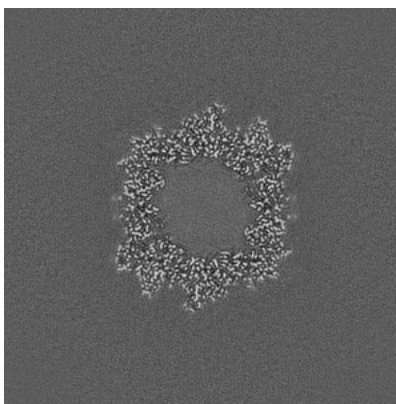
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

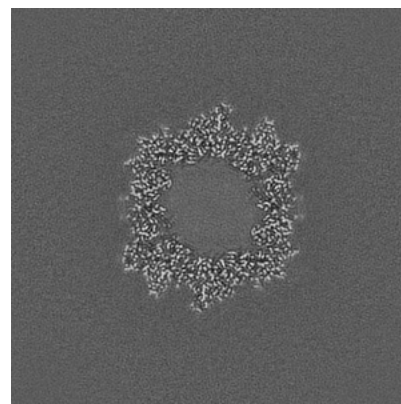
6.3.1 Primary map



X Index: 271



Y Index: 271

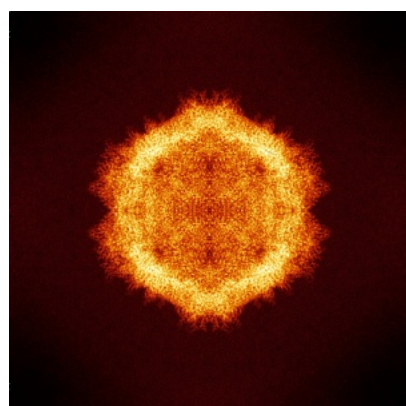


Z Index: 271

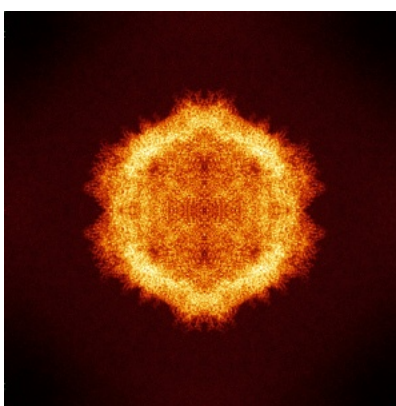
The images above show the largest variance slices of the map in three orthogonal directions.

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

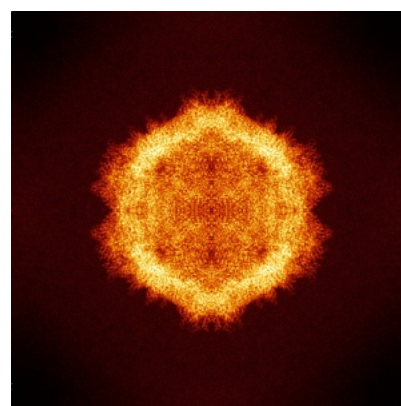
6.4.1 Primary map



X



Y

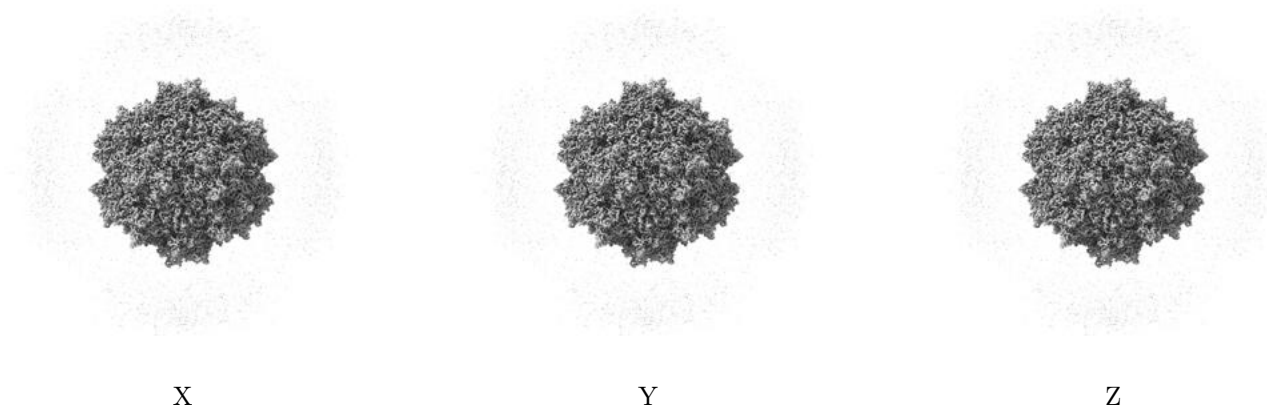


Z

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 [i](#)

6.5.1 Primary map



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

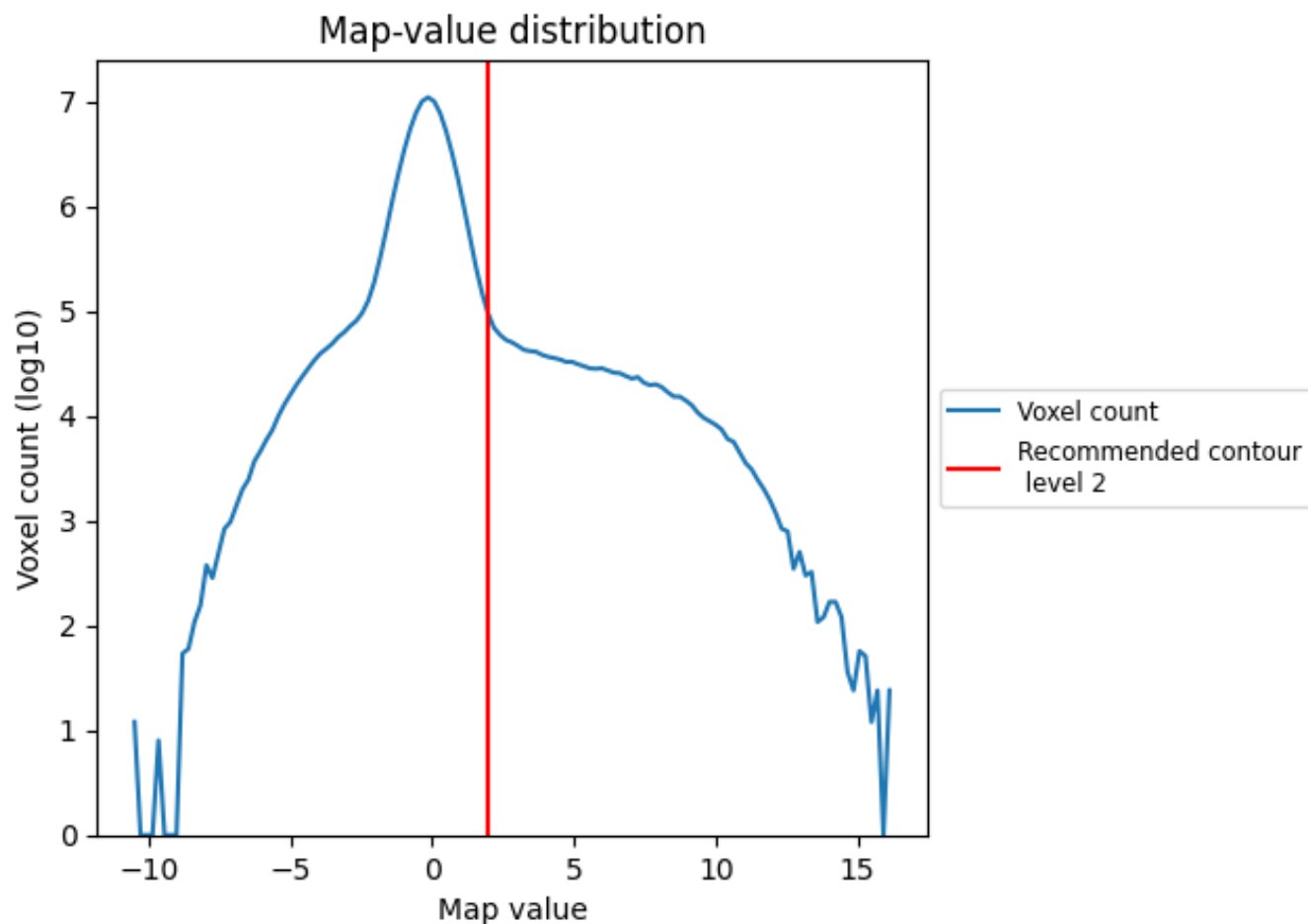
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

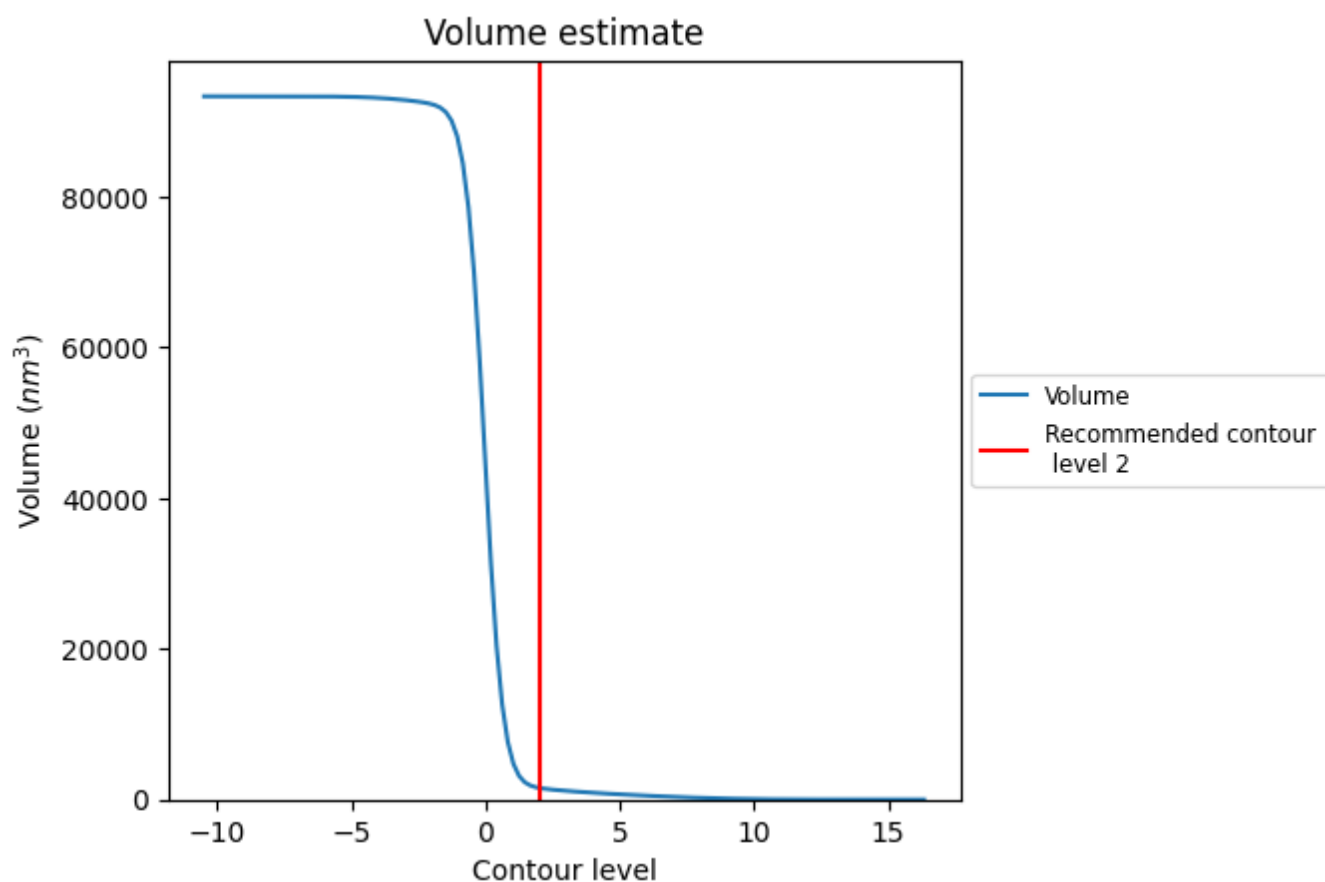
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

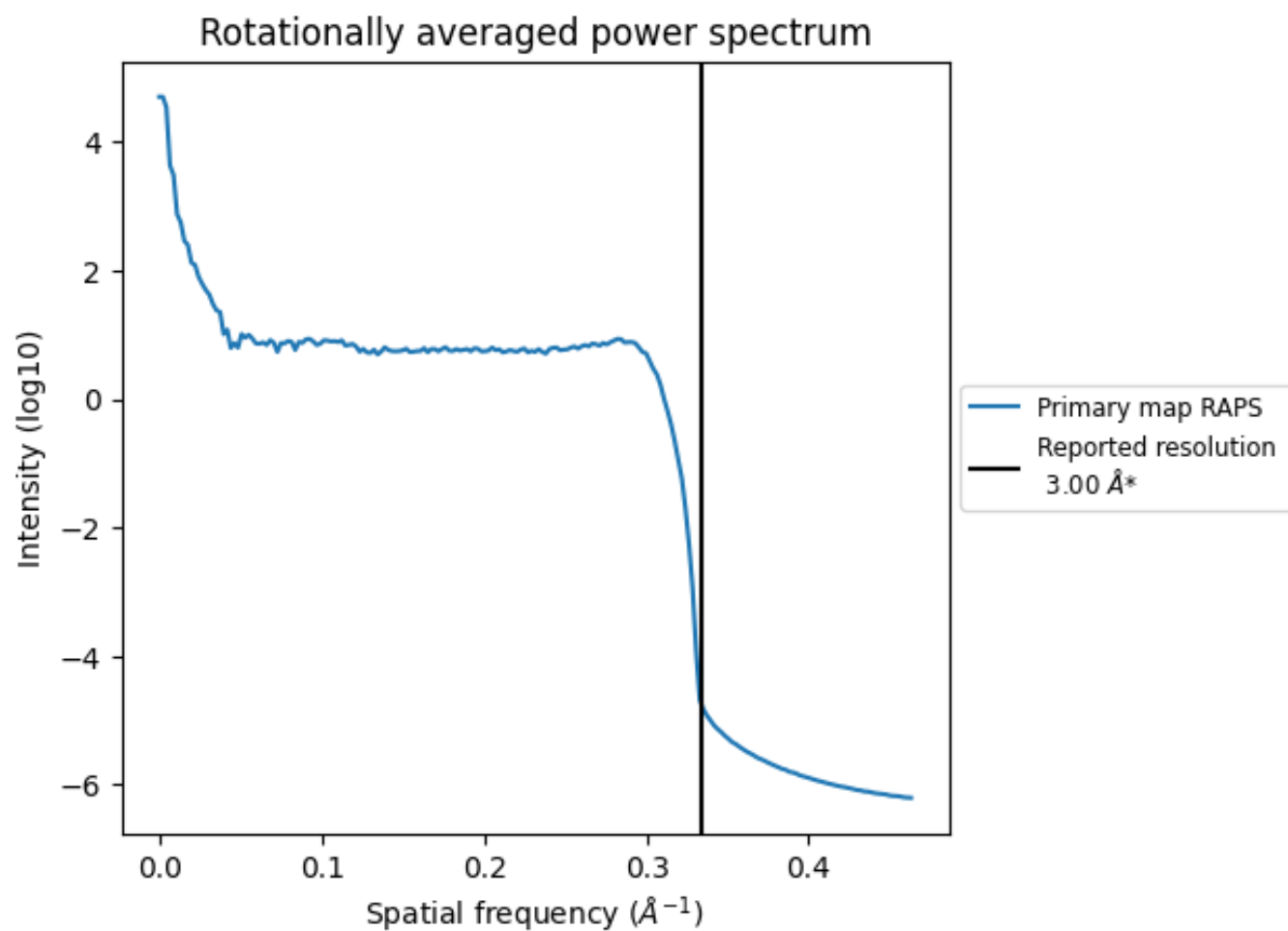
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1546 nm³; this corresponds to an approximate mass of 1396 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 0.333 Å⁻¹

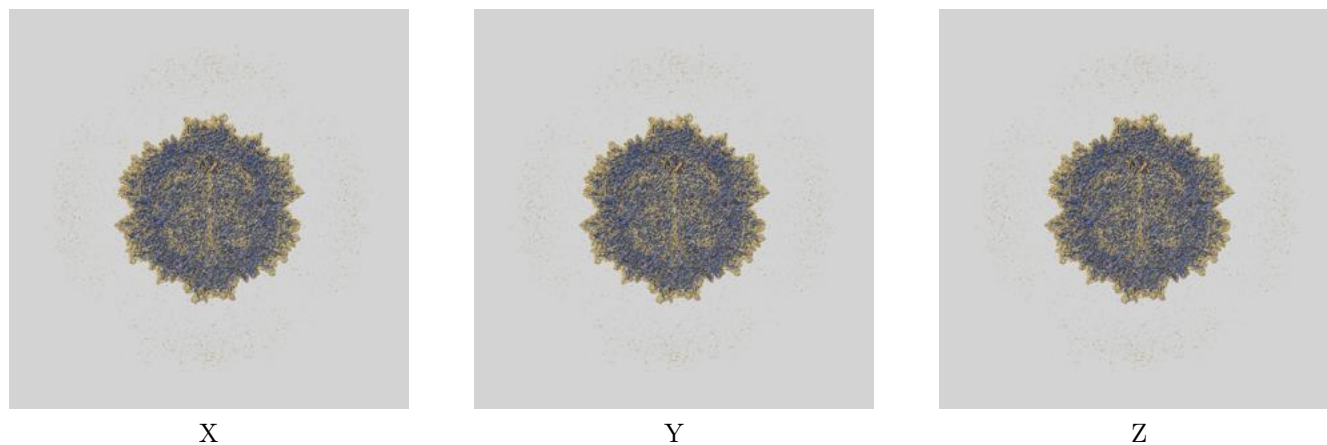
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

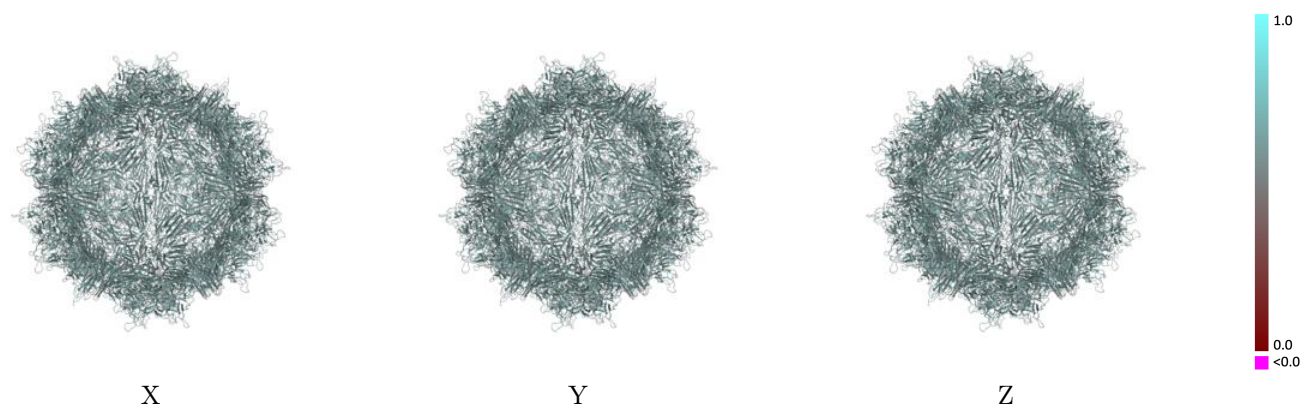
This section contains information regarding the fit between EMDB map EMD-23204 and PDB model 7L6H. Per-residue inclusion information can be found in [section 3](#) on [page 13](#).

9.1 Map-model overlay [i](#)



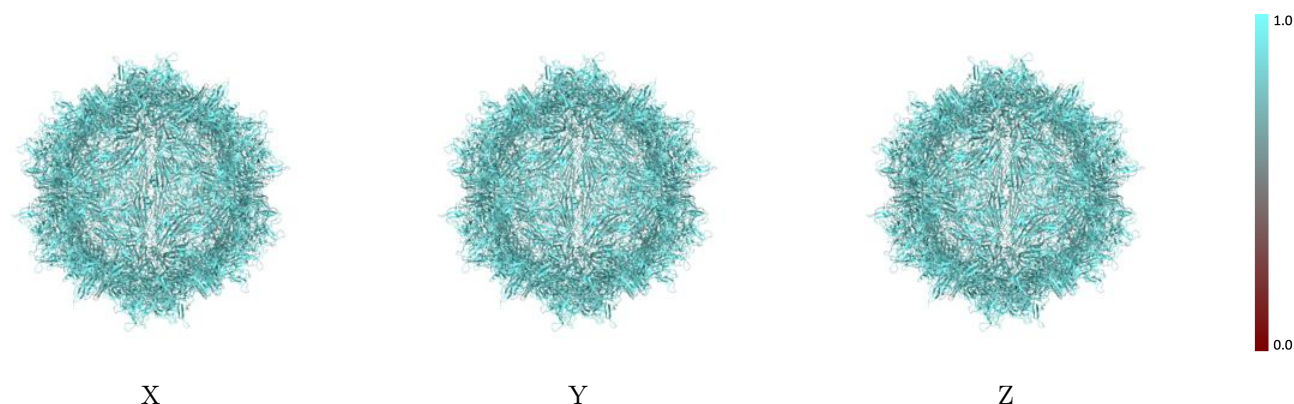
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



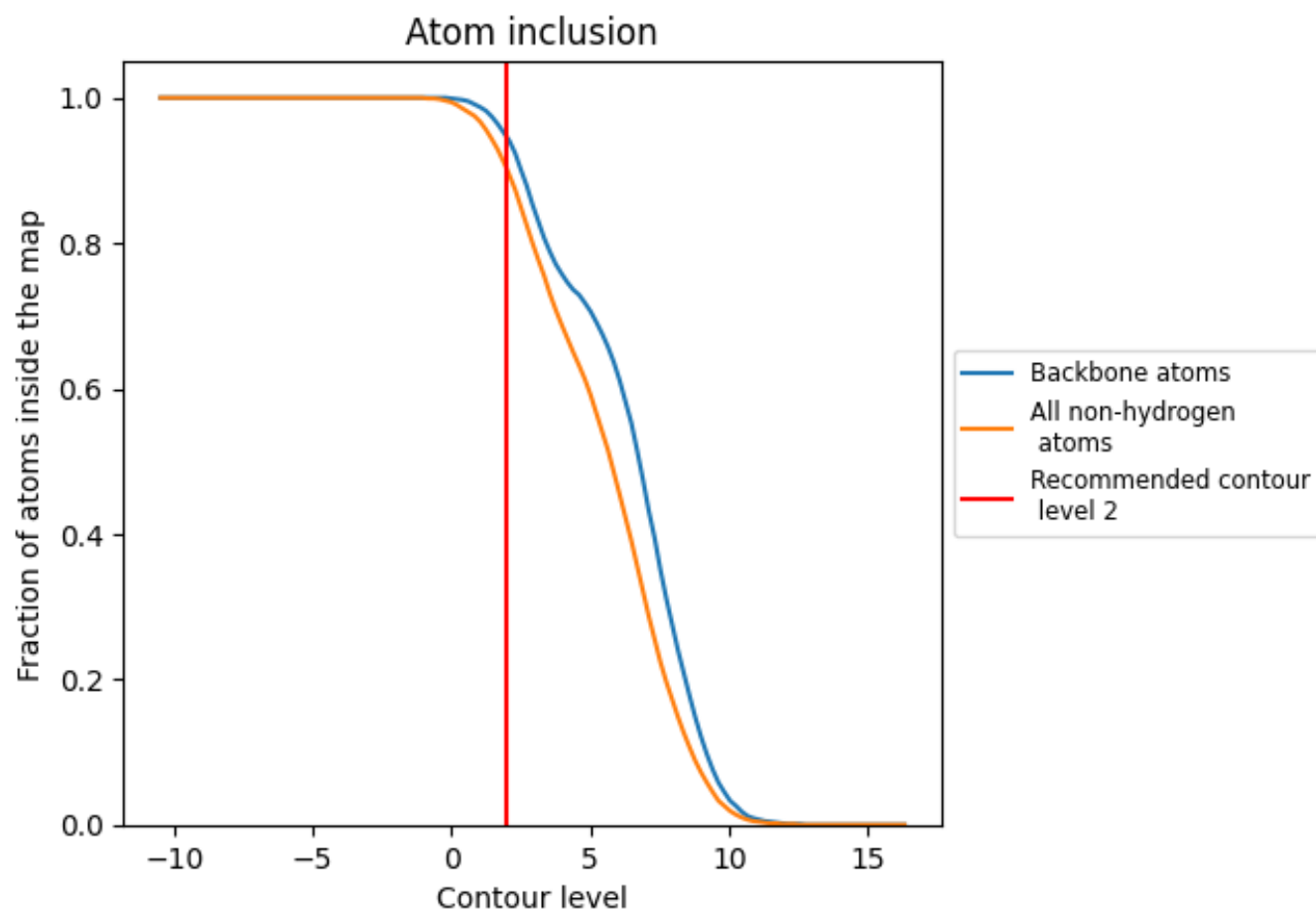
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 95% of all backbone atoms, 90% 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	 0.9020	 0.5830
1	 0.9020	 0.5840
2	 0.9020	 0.5820
3	 0.9000	 0.5840
4	 0.9010	 0.5840
5	 0.9030	 0.5830
6	 0.9020	 0.5820
7	 0.9030	 0.5830
8	 0.9040	 0.5840
A	 0.9010	 0.5830
B	 0.9020	 0.5830
C	 0.9010	 0.5830
D	 0.9030	 0.5840
E	 0.9030	 0.5840
F	 0.9010	 0.5840
G	 0.9030	 0.5830
H	 0.9030	 0.5840
I	 0.9010	 0.5830
J	 0.9020	 0.5830
K	 0.9010	 0.5830
L	 0.9020	 0.5830
M	 0.9040	 0.5840
N	 0.9020	 0.5830
O	 0.9030	 0.5840
P	 0.9030	 0.5830
Q	 0.9010	 0.5830
R	 0.9020	 0.5820
S	 0.9020	 0.5830
T	 0.9010	 0.5840
U	 0.9010	 0.5840
V	 0.9010	 0.5830
W	 0.9020	 0.5830
X	 0.9040	 0.5830
Y	 0.9020	 0.5840
Z	 0.9040	 0.5840



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Chain	Atom inclusion	Q-score
a	 0.9000	 0.5830
b	 0.9000	 0.5840
c	 0.9000	 0.5840
d	 0.9000	 0.5850
e	 0.9000	 0.5840
f	 0.9000	 0.5840
g	 0.9010	 0.5830
h	 0.9040	 0.5840
i	 0.9020	 0.5830
j	 0.9030	 0.5840
k	 0.9020	 0.5840
l	 0.9030	 0.5840
m	 0.9010	 0.5840
n	 0.9000	 0.5840
o	 0.9040	 0.5830
p	 0.9010	 0.5830
q	 0.9020	 0.5820
r	 0.9020	 0.5830
s	 0.9010	 0.5830
t	 0.9030	 0.5830
u	 0.9010	 0.5820
v	 0.9010	 0.5840
w	 0.9040	 0.5830
x	 0.9010	 0.5830
y	 0.9010	 0.5830
z	 0.9020	 0.5820