



Full wwPDB EM Validation Report ⓘ

May 26, 2025 – 11:45 PM EDT

PDB ID : 7L6E / pdb_00007l6e
EMDB ID : EMD-23202
Title : The genome-containing AAV11 capsid
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-12-23
Resolution : 3.15 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

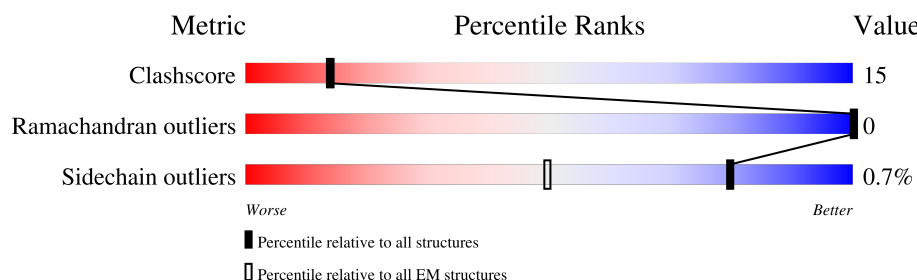
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.15 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	521	67% 33%
1	2	521	68% 32%
1	3	521	68% 32%
1	4	521	67% 33%
1	5	521	66% 33%
1	6	521	67% 33%
1	7	521	67% 33%
1	8	521	67% 32%

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Mol	Chain	Length	Quality of chain	
1	A	521		
1	B	521		
1	C	521		
1	D	521		
1	E	521		
1	F	521		
1	G	521		
1	H	521		
1	I	521		
1	J	521		
1	K	521		
1	L	521		
1	M	521		
1	N	521		
1	O	521		
1	P	521		
1	Q	521		
1	R	521		
1	S	521		
1	T	521		
1	U	521		
1	V	521		
1	W	521		
1	X	521		
1	Y	521		

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Mol	Chain	Length	Quality of chain	
1	Z	521		
1	a	521		
1	b	521		
1	c	521		
1	d	521		
1	e	521		
1	f	521		
1	g	521		
1	h	521		
1	i	521		
1	j	521		
1	k	521		
1	l	521		
1	m	521		
1	n	521		
1	o	521		
1	p	521		
1	q	521		
1	r	521		
1	s	521		
1	t	521		
1	u	521		
1	v	521		
1	w	521		
1	x	521		

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Mol	Chain	Length	Quality of chain
1	y	521	 66%34%
1	z	521	 67%33%

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 248700 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	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	B	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	C	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	D	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	E	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	F	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	G	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	H	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	I	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	J	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	K	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	L	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	M	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	N	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	O	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	P	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		
1	Q	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	S	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	T	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	U	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	V	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	W	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	X	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	Y	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	Z	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	a	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	b	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	c	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	d	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	e	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	f	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	g	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	h	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	i	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	j	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	k	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	l	521	Total 4123	C 2607	N 712	O 787	S 17	0	0

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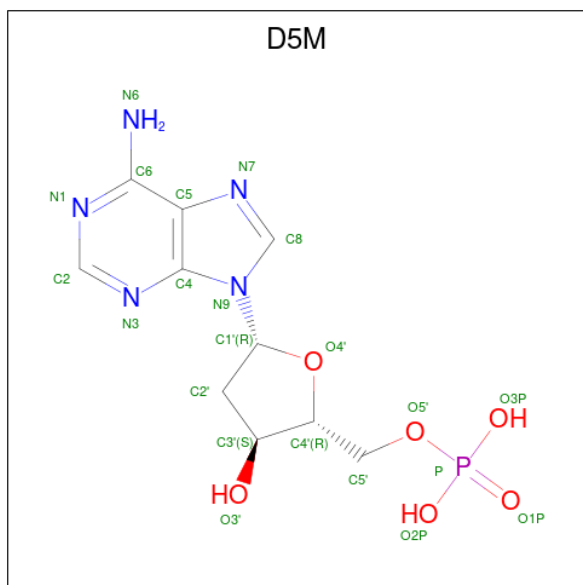
Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	n	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	o	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	p	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	q	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	r	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	s	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	t	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	u	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	v	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	w	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	x	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	y	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	z	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	1	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	2	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	3	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	4	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	5	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	6	521	Total 4123	C 2607	N 712	O 787	S 17	0	0
1	7	521	Total 4123	C 2607	N 712	O 787	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	0	0
			4123	2607	712	787	17		

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



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			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 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
2	a	1	Total 22	C 10	N 5	O 6	P 1	0
2	b	1	Total 22	C 10	N 5	O 6	P 1	0
2	c	1	Total 22	C 10	N 5	O 6	P 1	0
2	d	1	Total 22	C 10	N 5	O 6	P 1	0
2	e	1	Total 22	C 10	N 5	O 6	P 1	0

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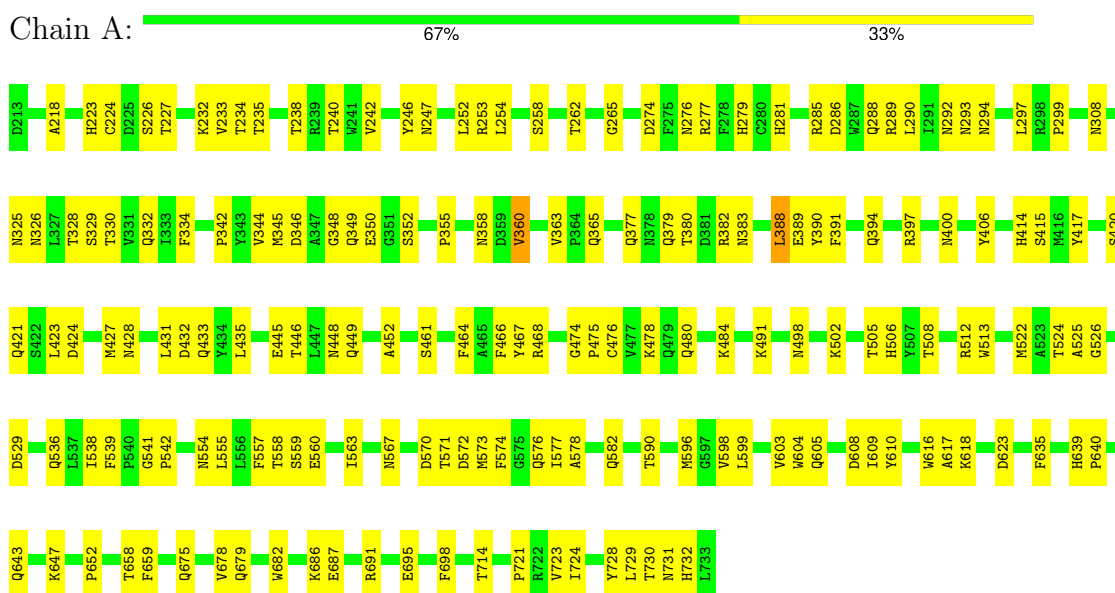
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Mol	Chain	Residues	Atoms					AltConf
2	1	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	2	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	3	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	4	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	5	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	6	1	Total	C	N	O	P	0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

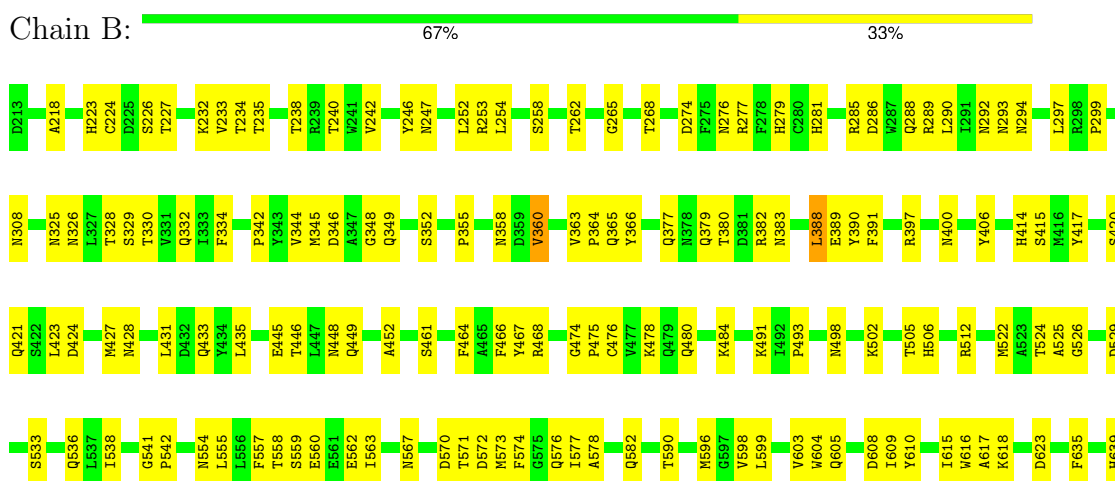
3 Residue-property plots

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



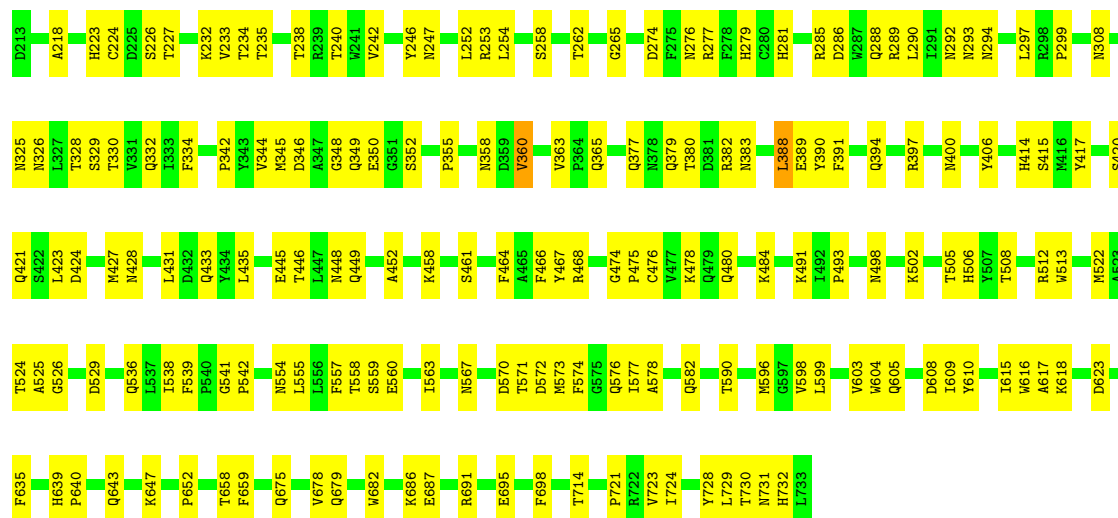
- Molecule 1: Capsid protein





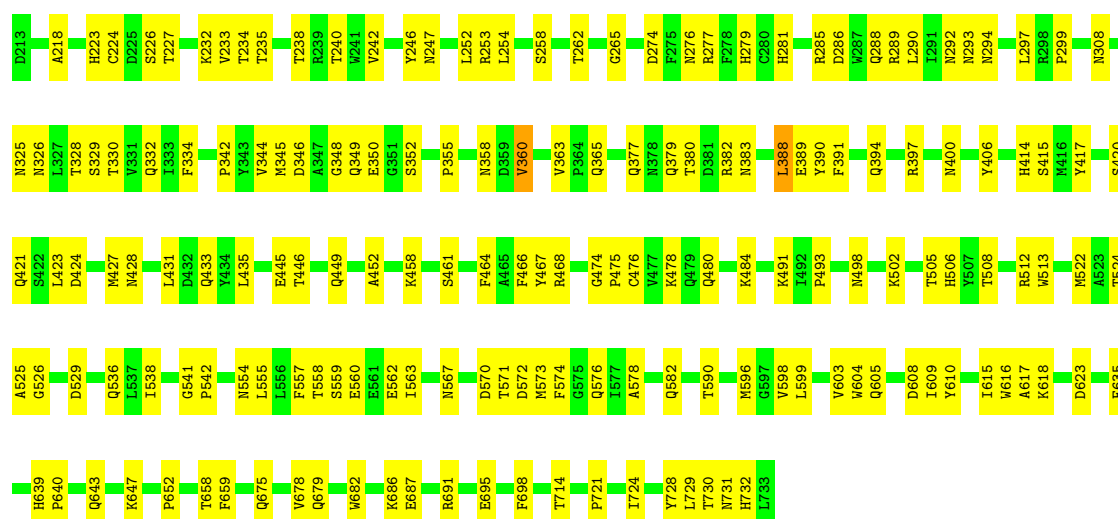
• Molecule 1: Capsid protein

Chain C: 66% 33%



• Molecule 1: Capsid protein

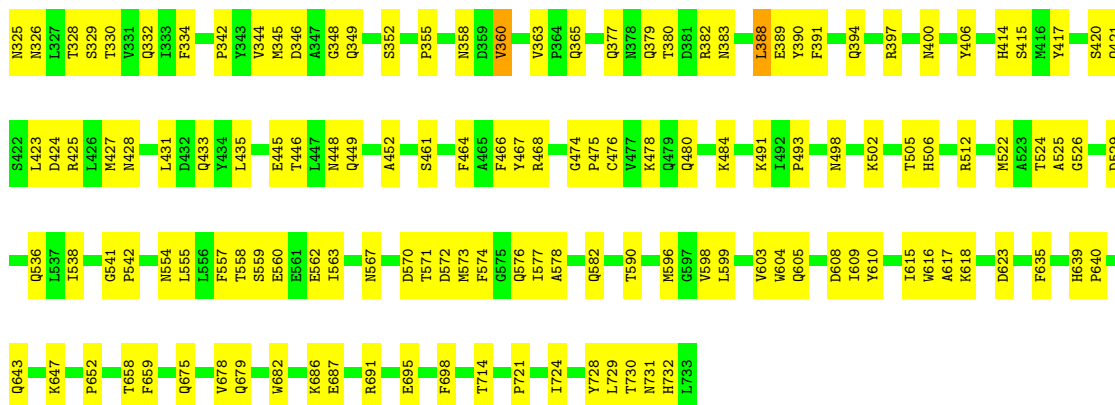
Chain D: 67% 33%



• Molecule 1: Capsid protein

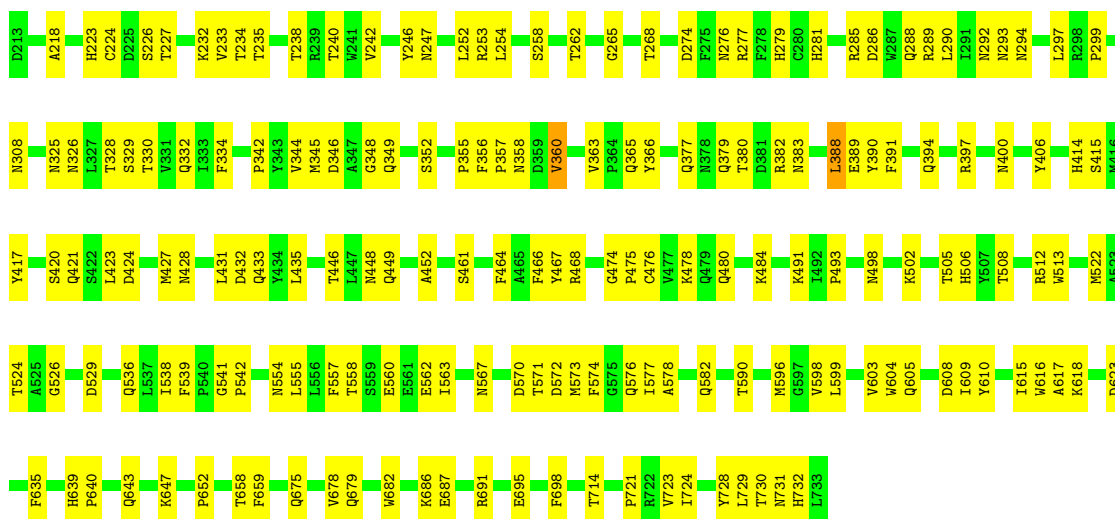
Chain E: 67% 32%





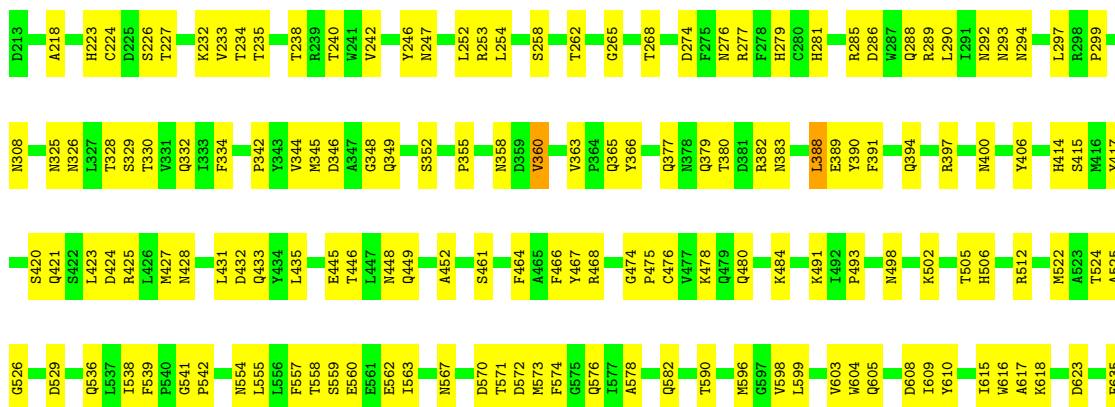
• Molecule 1: Capsid protein

Chain F: 66% 33%



• Molecule 1: Capsid protein

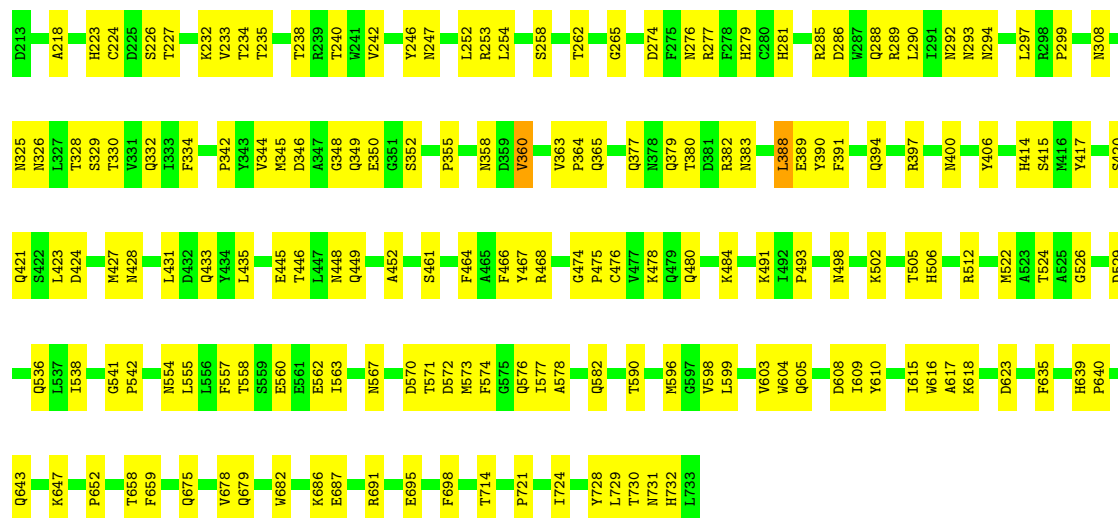
Chain G: 66% 33%





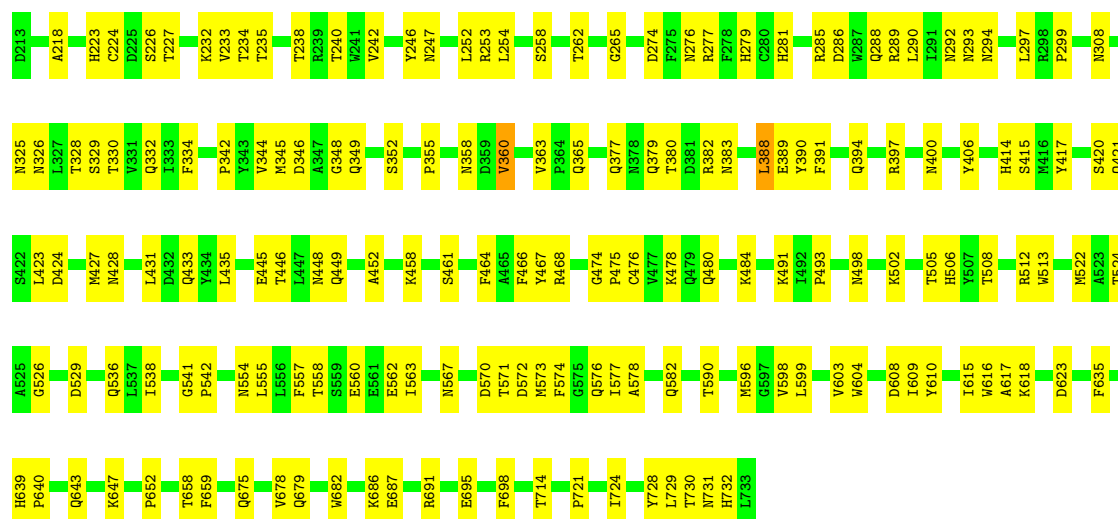
• Molecule 1: Capsid protein

Chain H: 67% 32%



• Molecule 1: Capsid protein

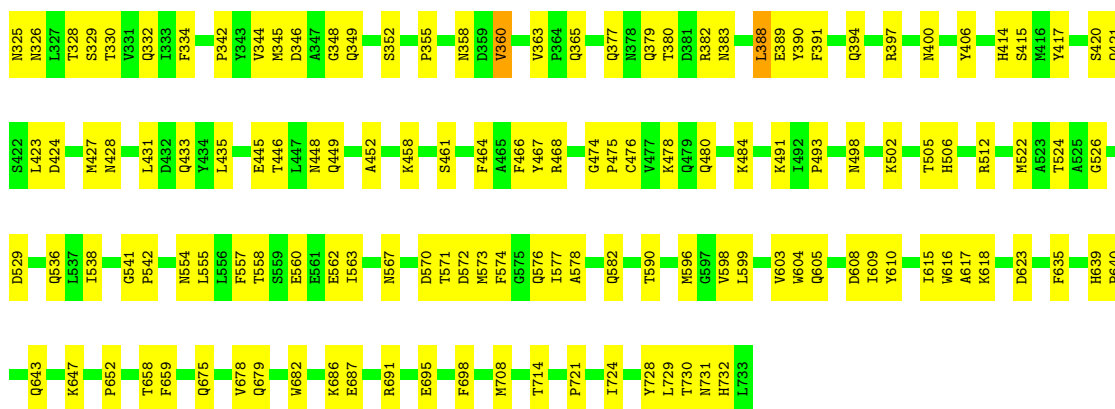
Chain I: 67% 32%



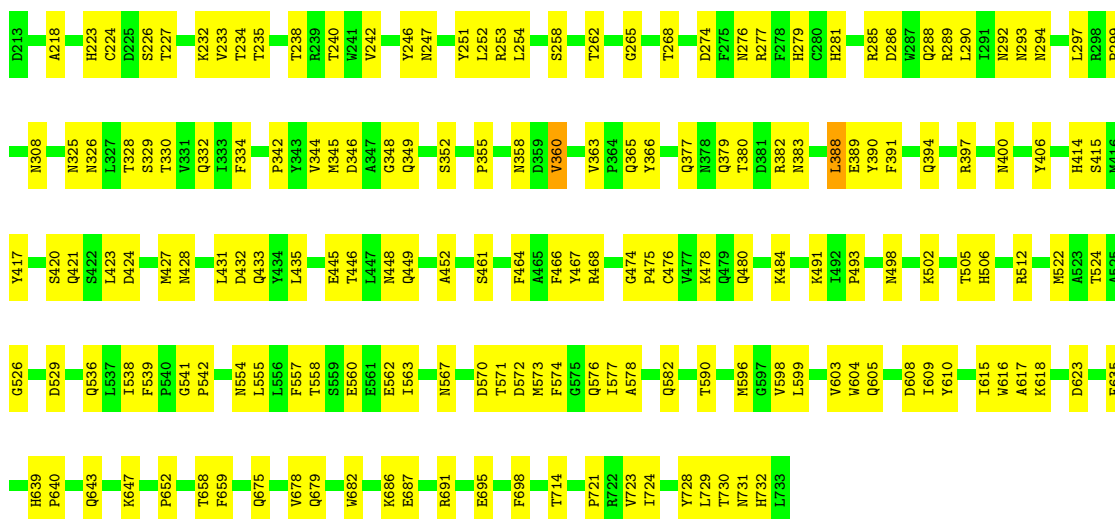
• Molecule 1: Capsid protein

Chain J: 67% 32%

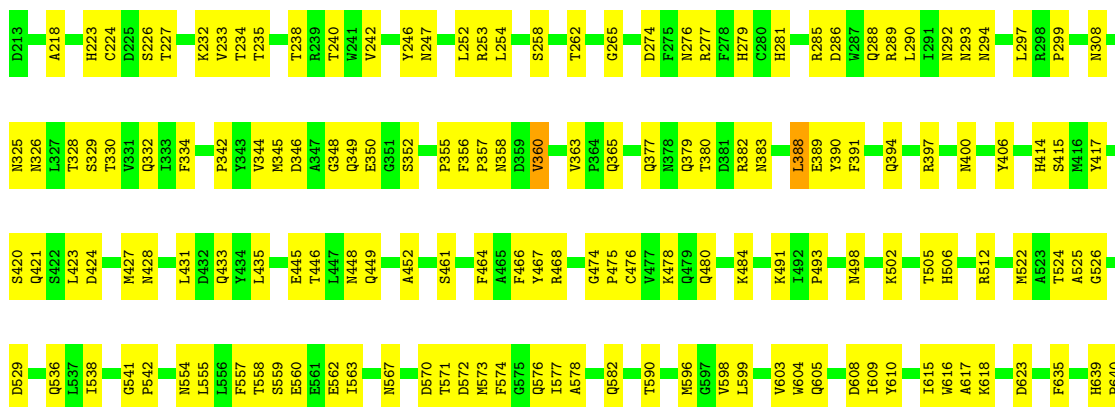




• Molecule 1: Capsid protein



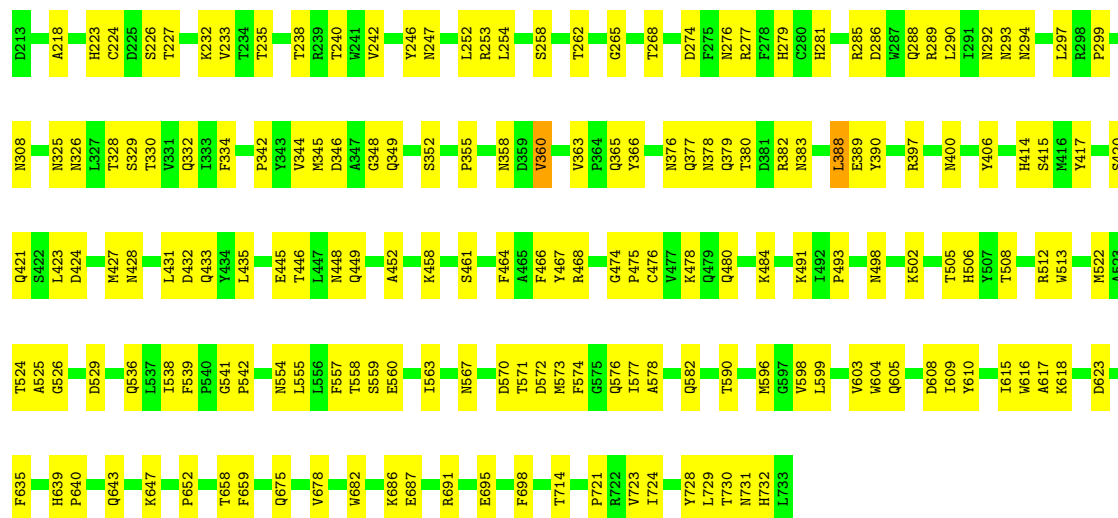
• Molecule 1: Capsid protein





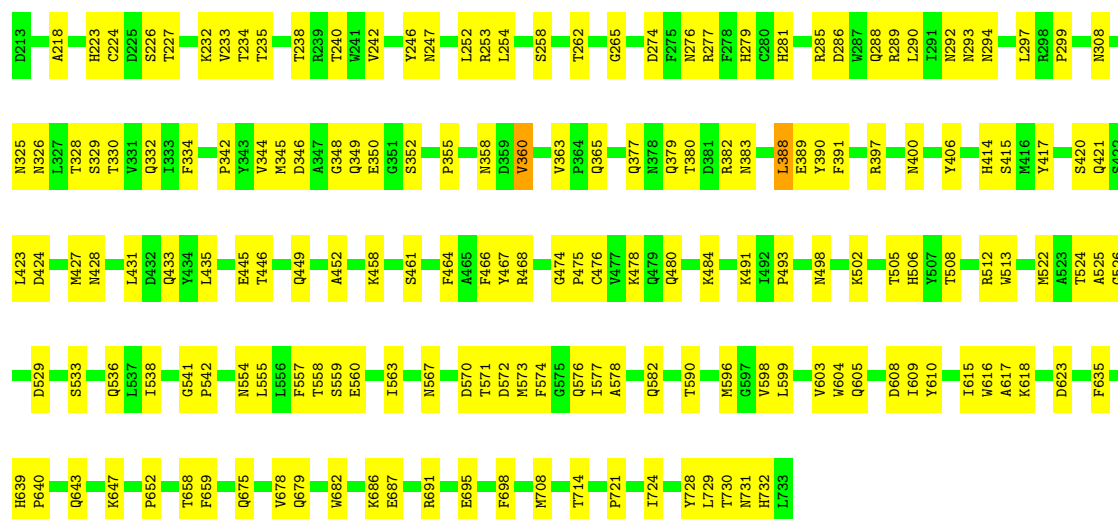
• Molecule 1: Capsid protein

Chain M: 66% 33%



• Molecule 1: Capsid protein

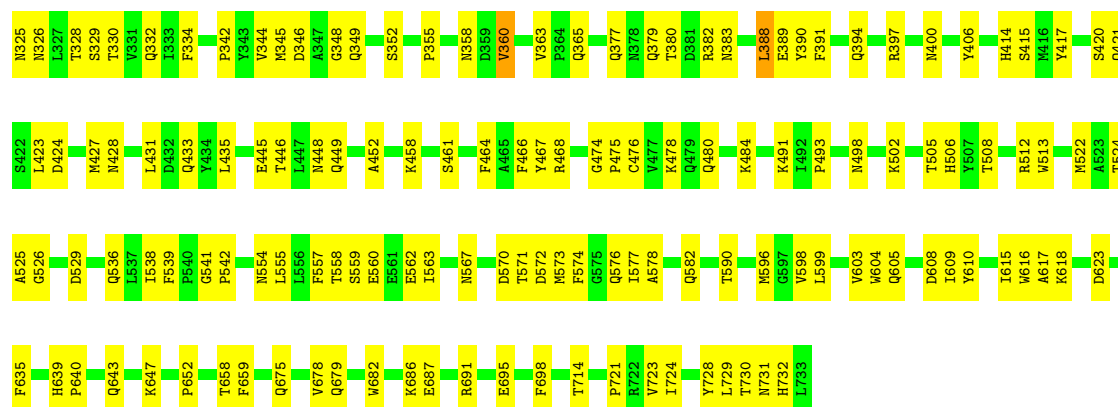
Chain N: 67% 33%



• Molecule 1: Capsid protein

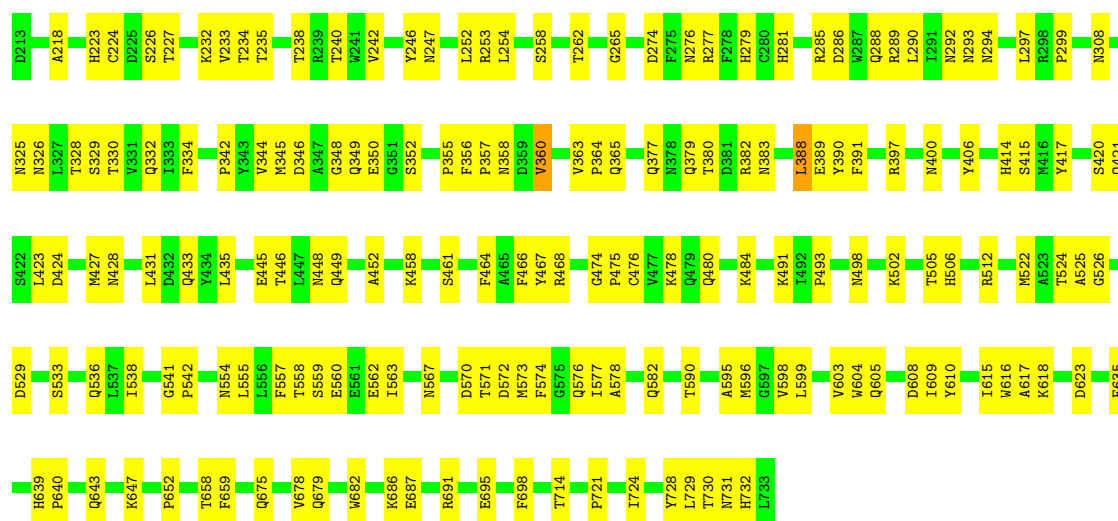
Chain O: 66% 33%





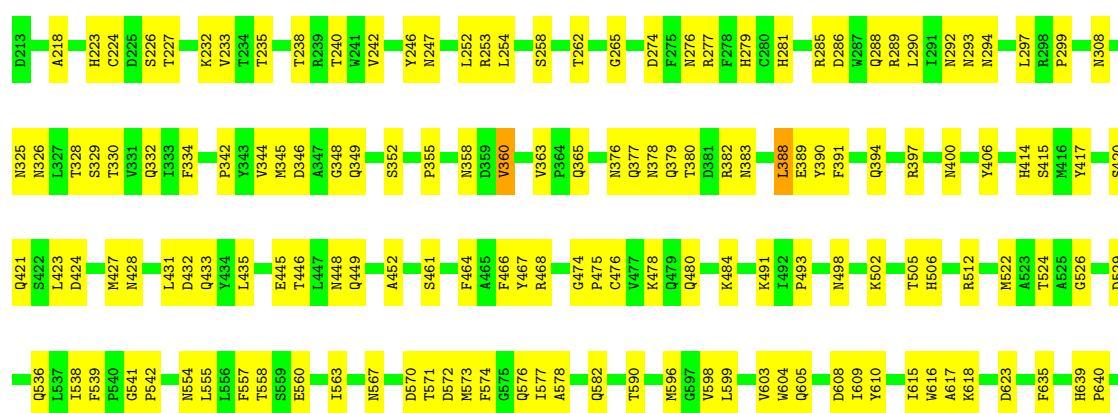
• Molecule 1: Capsid protein

Chain P: 66% 33%



• Molecule 1: Capsid protein

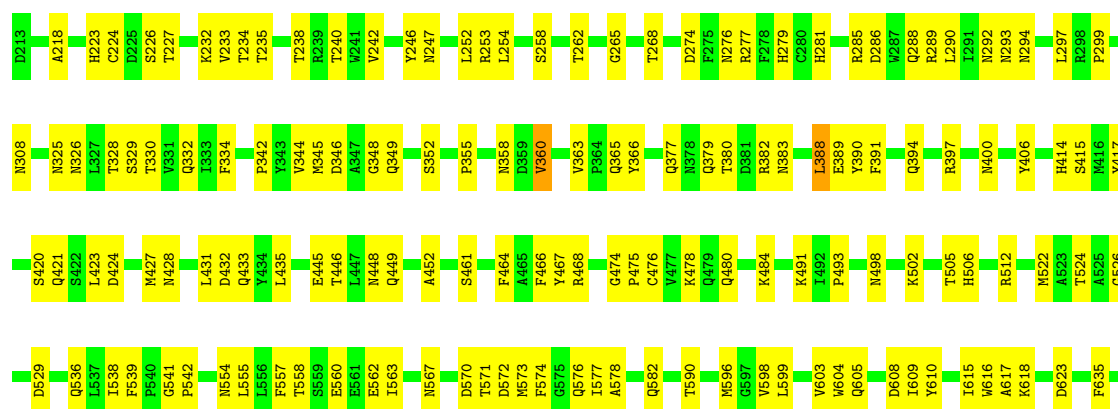
Chain Q: 67% 32%





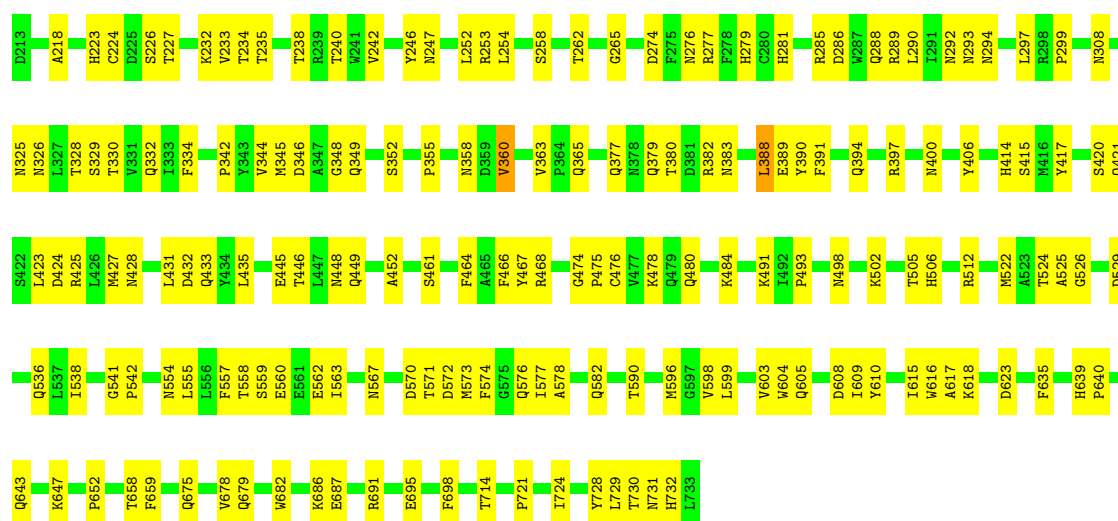
• Molecule 1: Capsid protein

Chain R: 67% 33%



• Molecule 1: Capsid protein

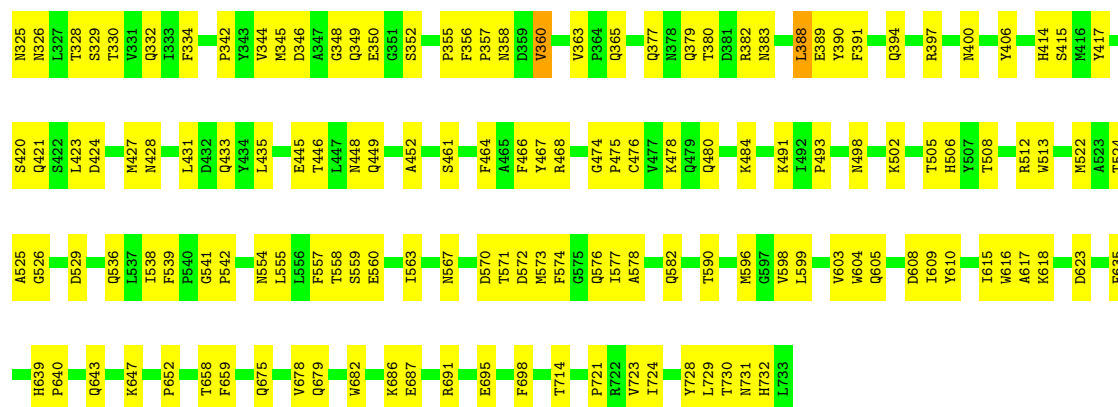
Chain S: 67% 33%



• Molecule 1: Capsid protein

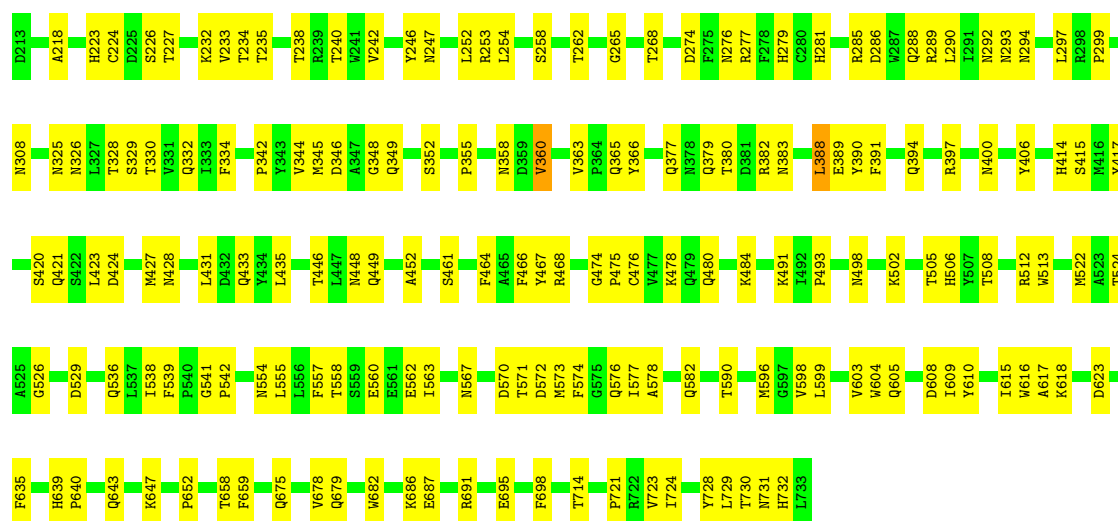
Chain T: 66% 33%





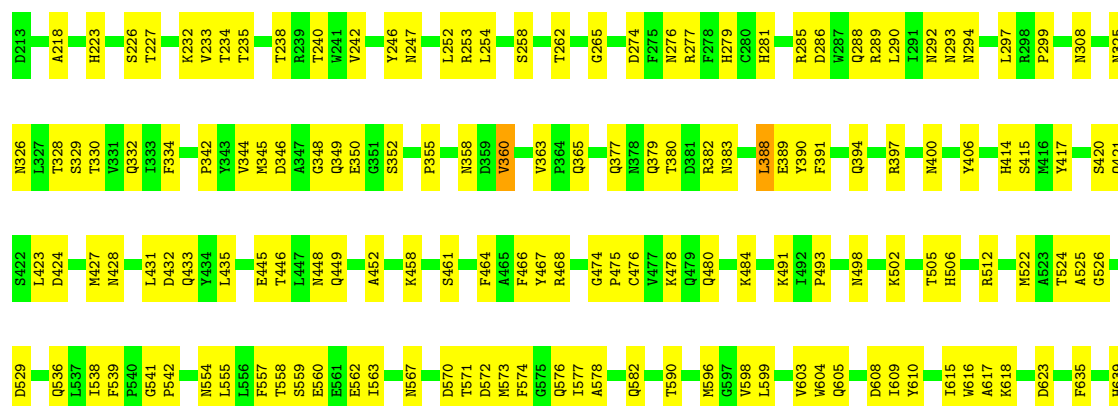
• Molecule 1: Capsid protein

Chain U: 67% 33%



• Molecule 1: Capsid protein

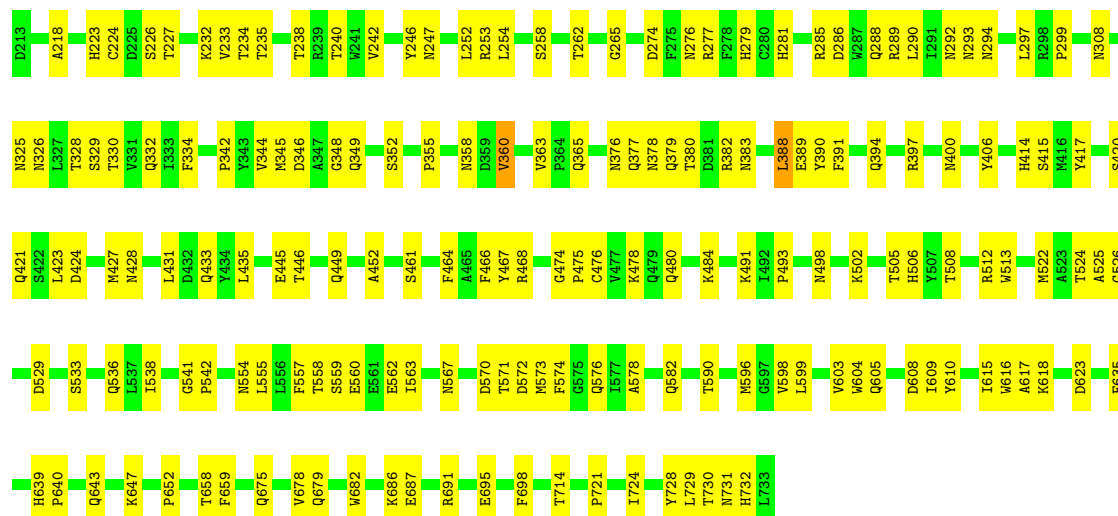
Chain V: 67% 33%





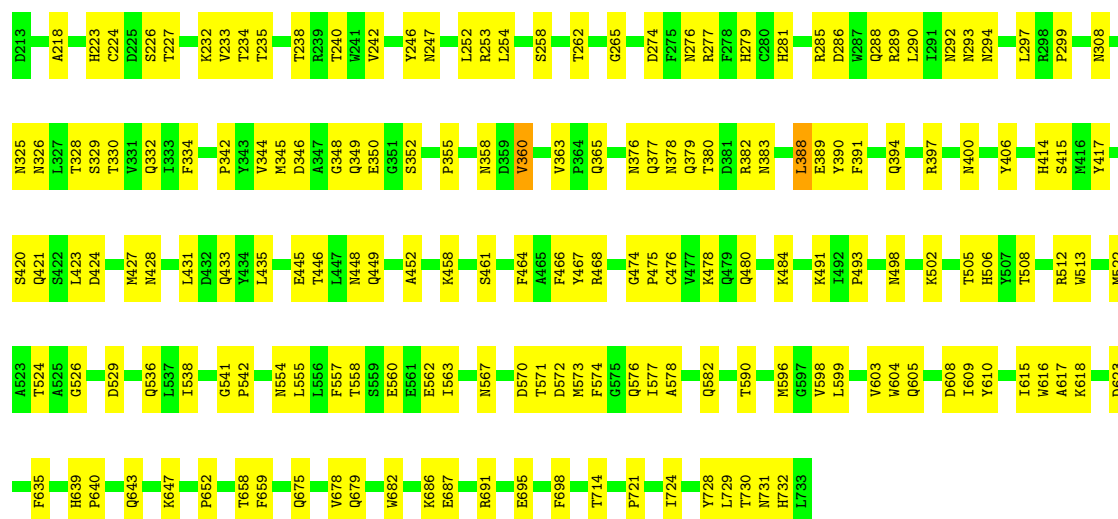
• Molecule 1: Capsid protein

Chain W: 67% 33%



• Molecule 1: Capsid protein

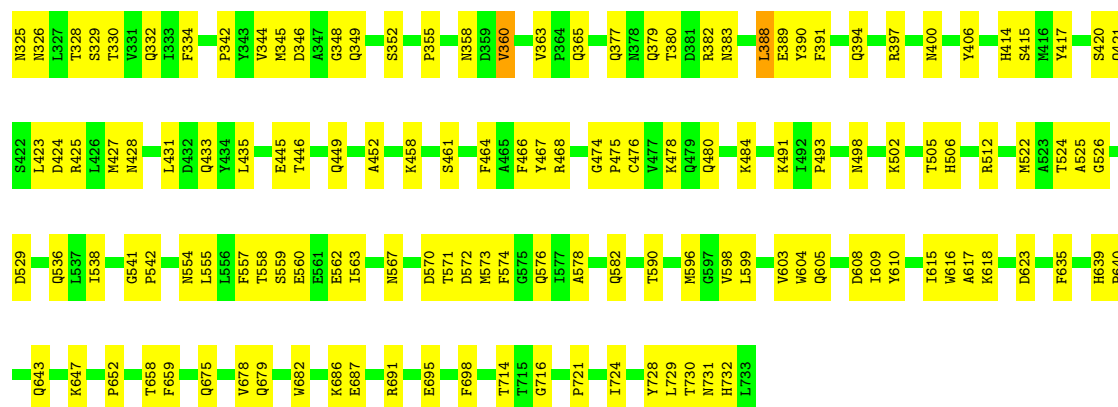
Chain X: 67% 33%



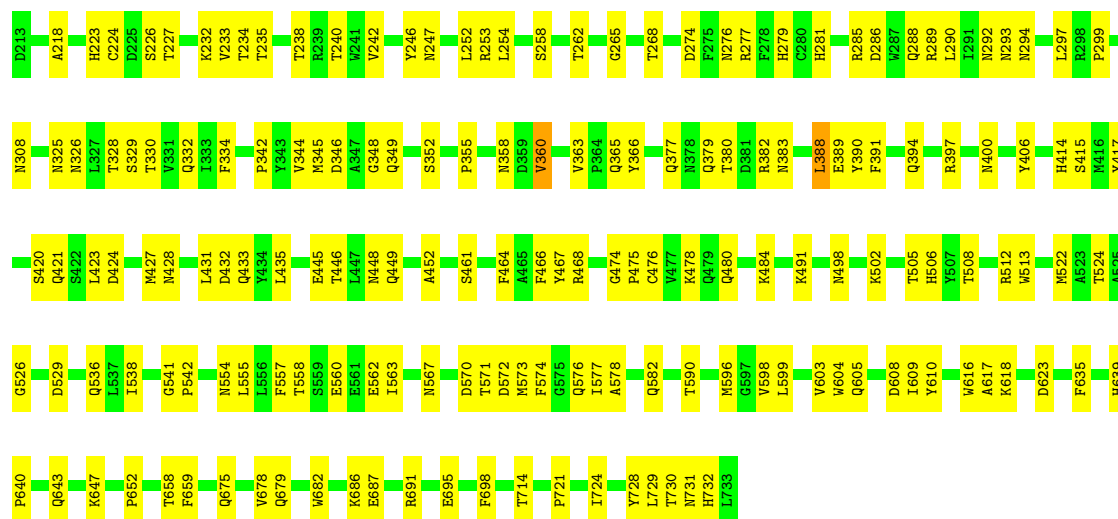
• Molecule 1: Capsid protein

Chain Y: 67% 32%

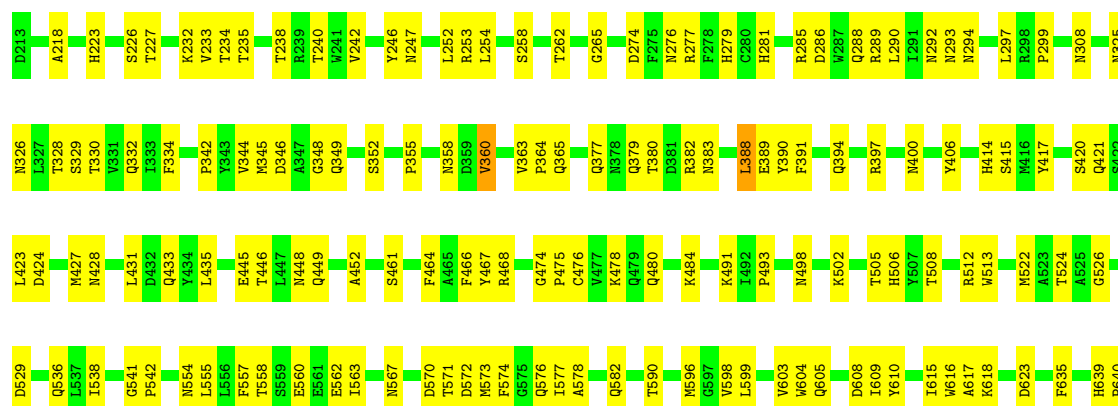




• Molecule 1: Capsid protein

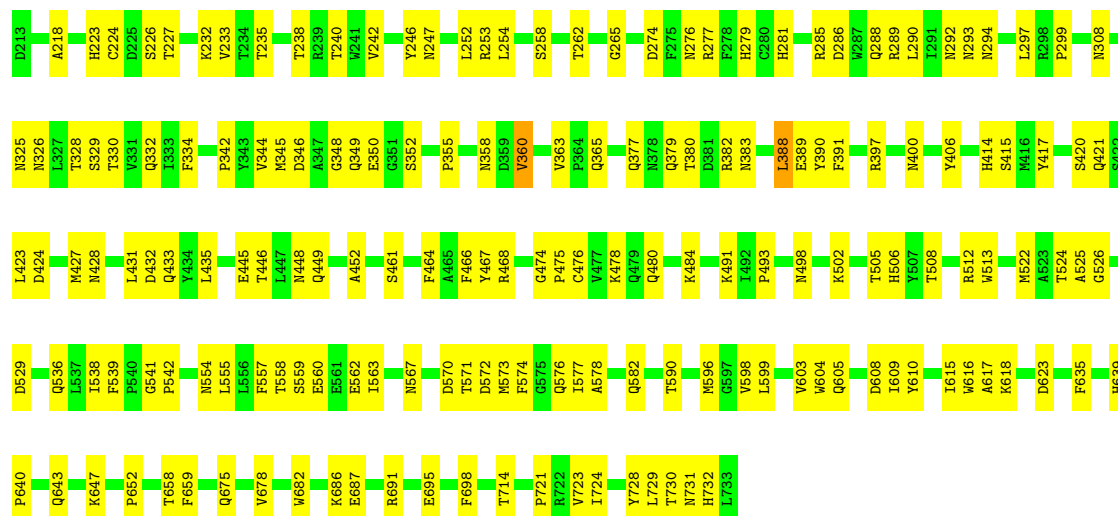


• Molecule 1: Capsid protein

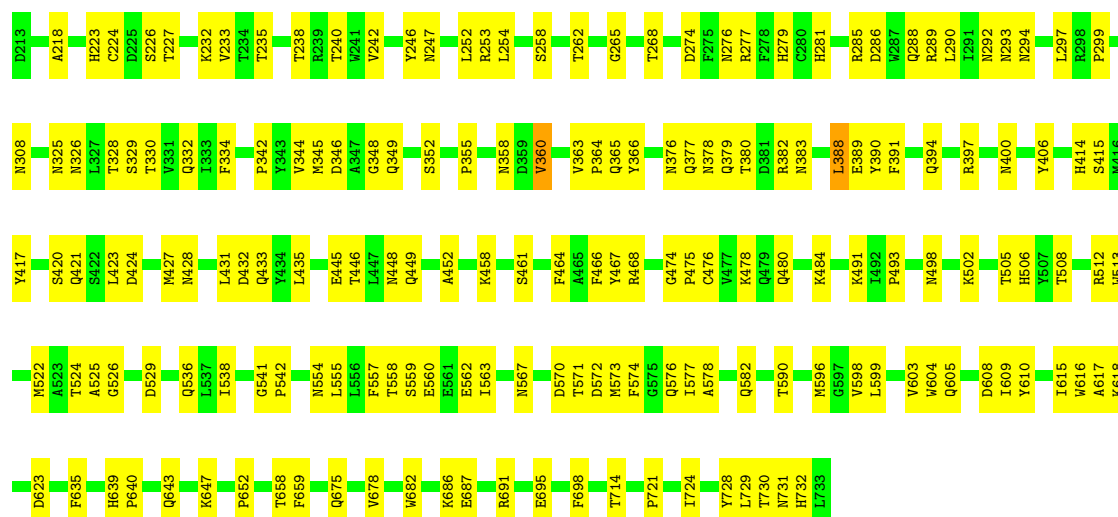




• Molecule 1: Capsid protein

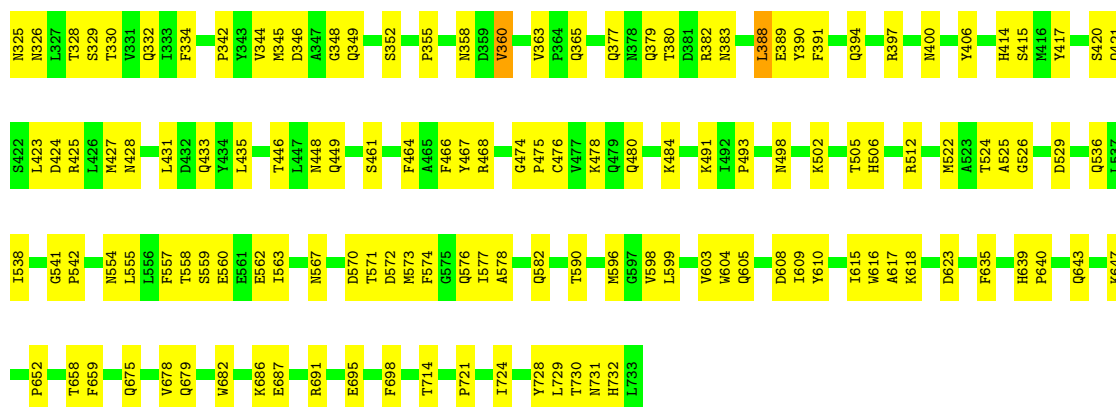


• Molecule 1: Capsid protein



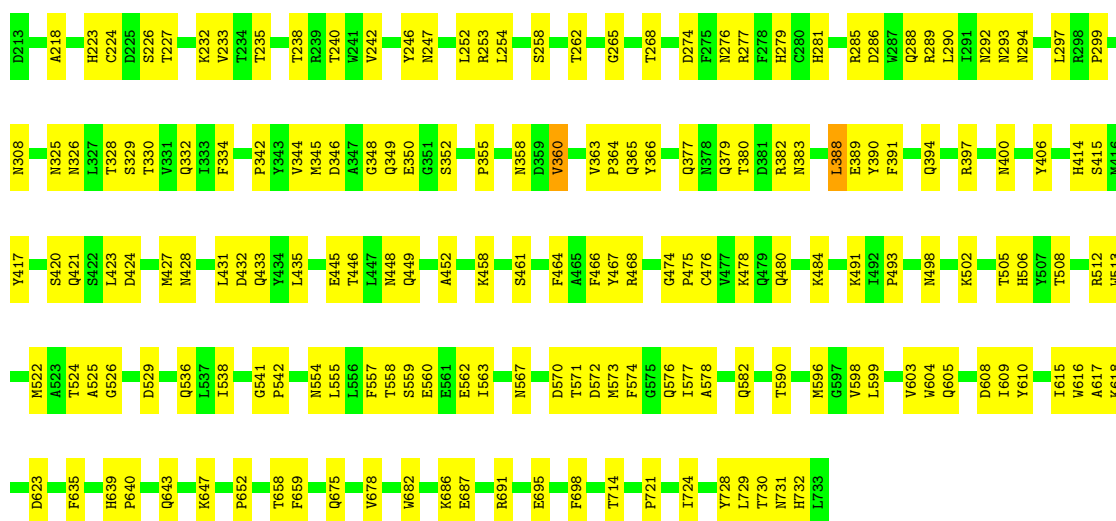
• Molecule 1: Capsid protein





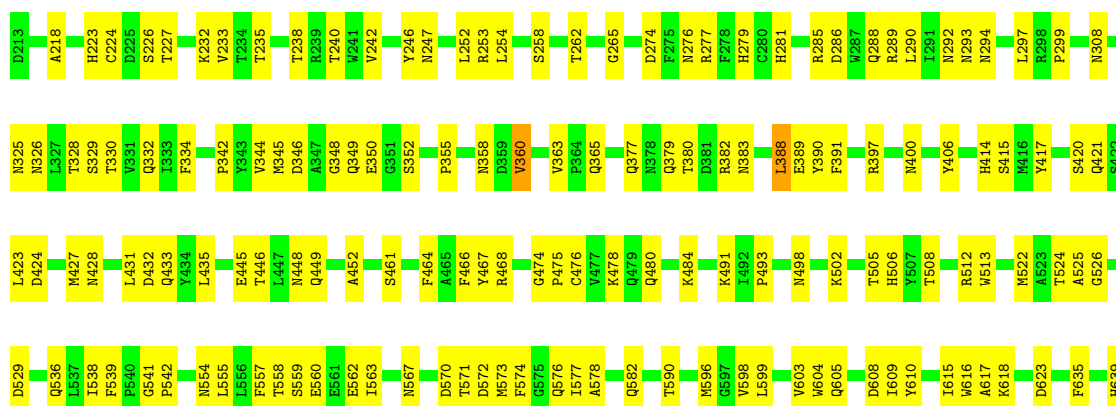
• Molecule 1: Capsid protein

Chain e: 66% 33%



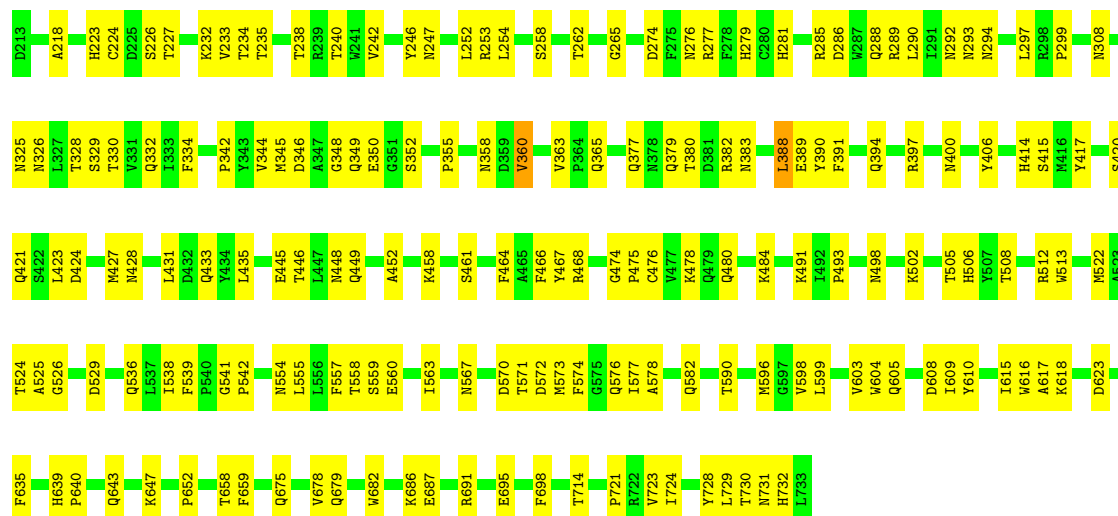
• Molecule 1: Capsid protein

Chain f: 67% 33%

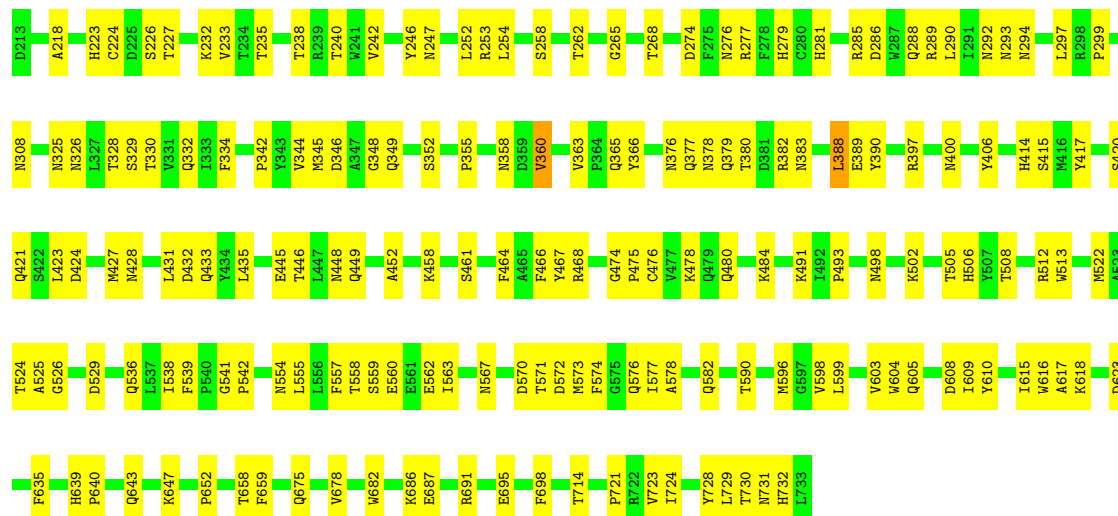




• Molecule 1: Capsid protein

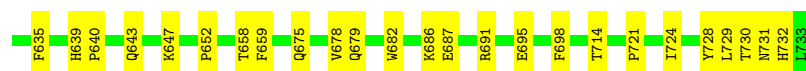


• Molecule 1: Capsid protein

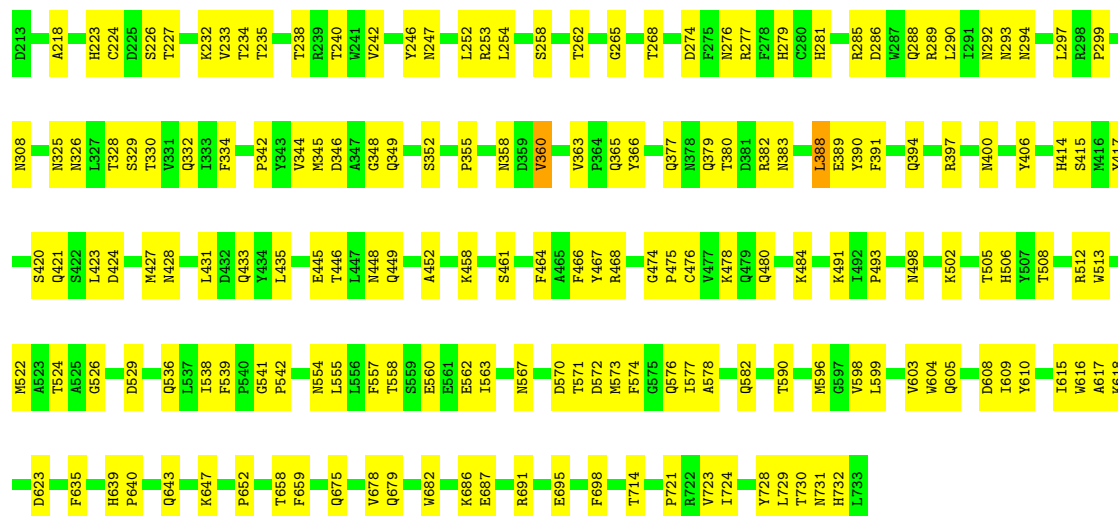


• Molecule 1: Capsid protein

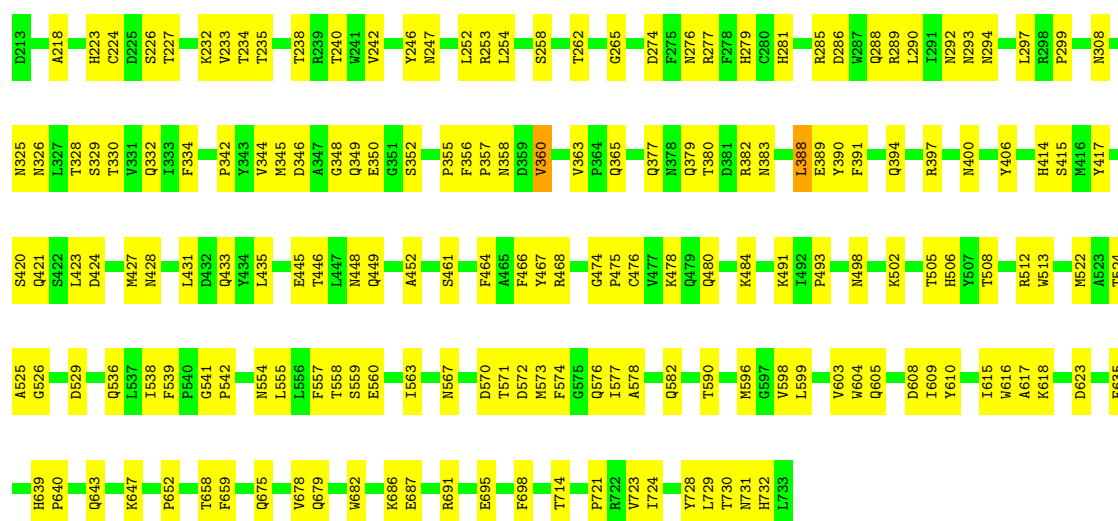




• Molecule 1: Capsid protein

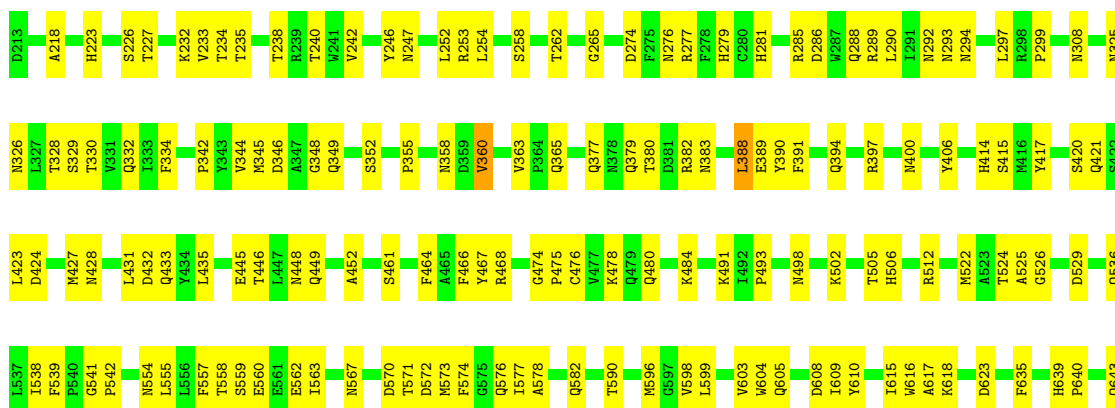


• Molecule 1: Capsid protein



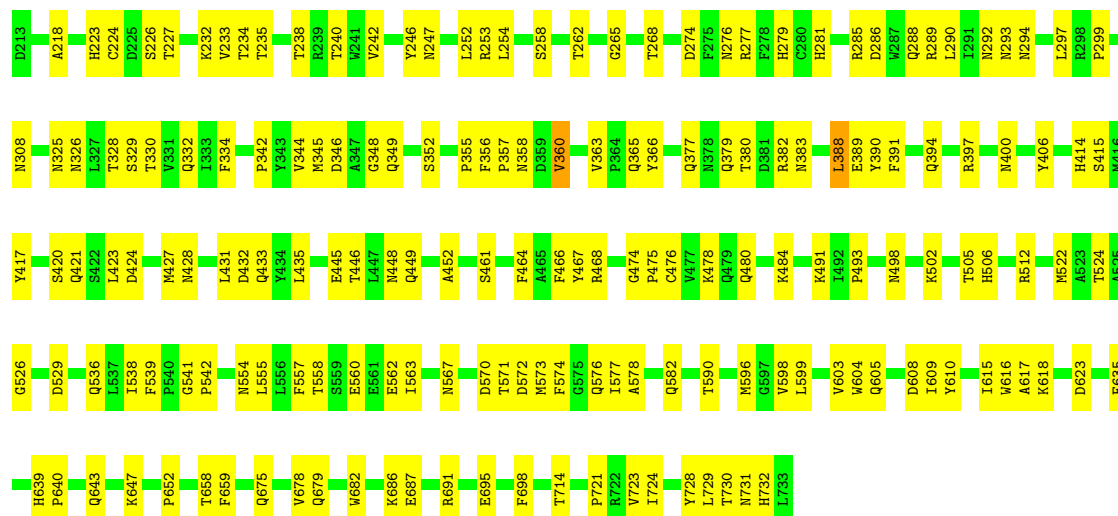
• Molecule 1: Capsid protein



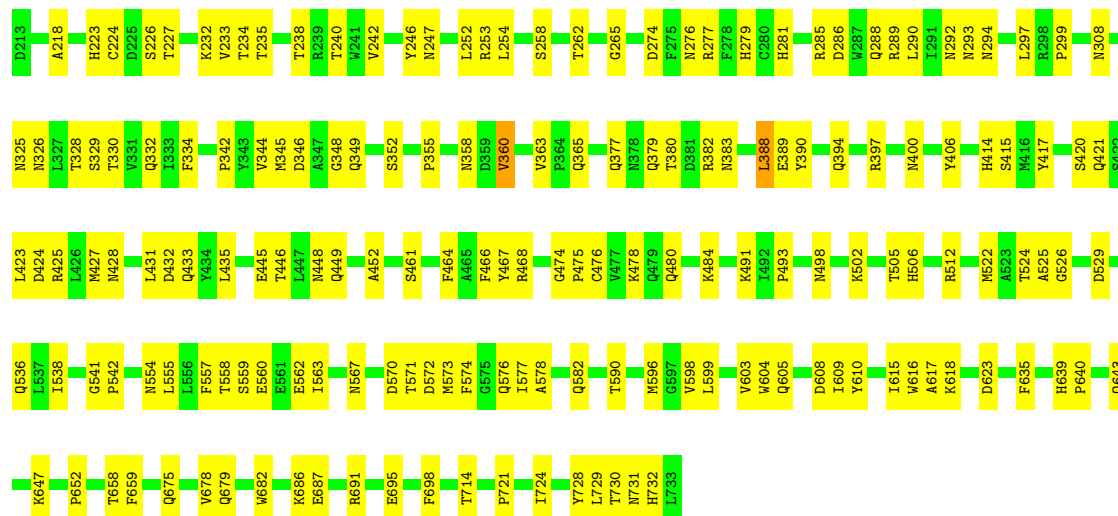




• Molecule 1: Capsid protein

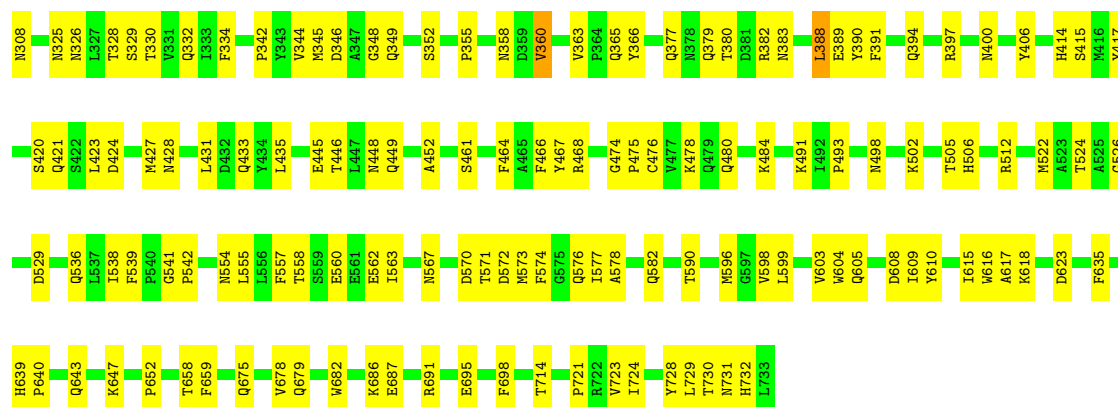


• Molecule 1: Capsid protein



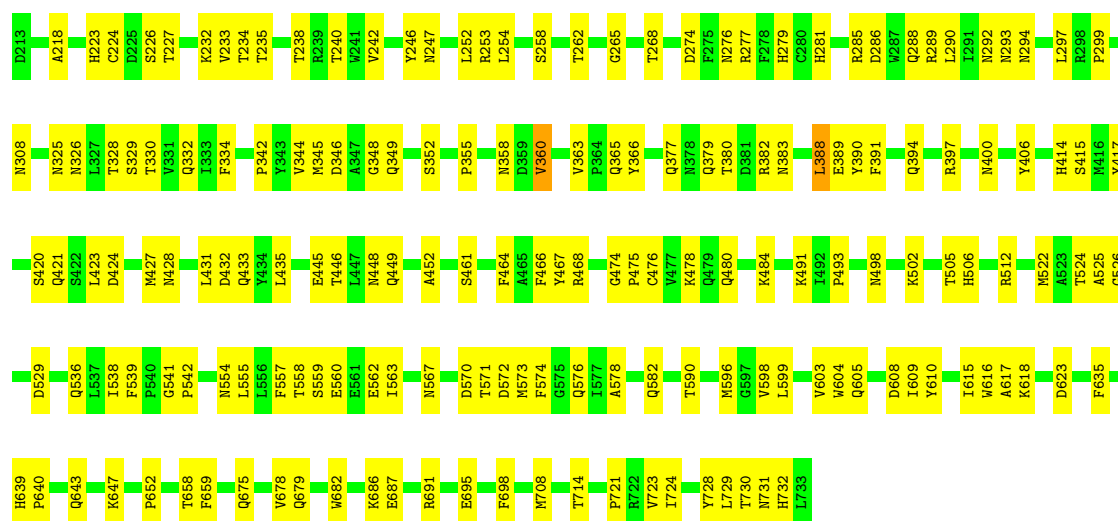
• Molecule 1: Capsid protein





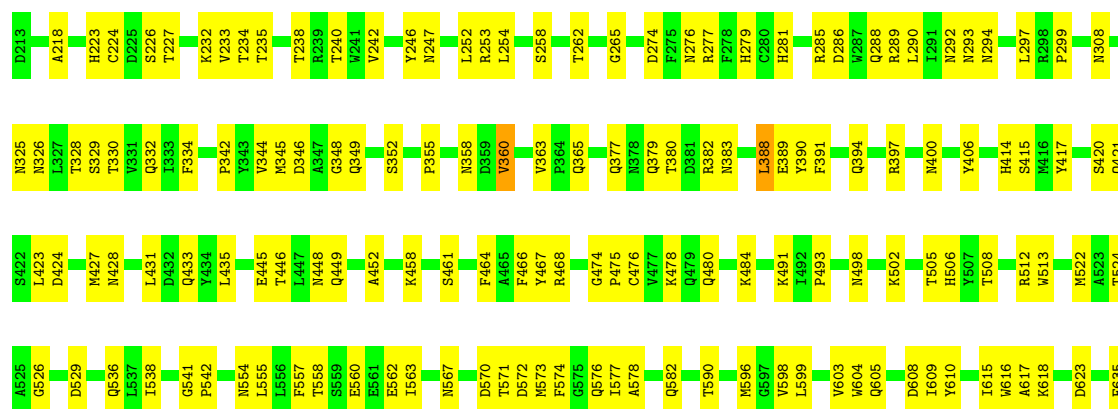
• Molecule 1: Capsid protein

Chain t: 66% 33%



• Molecule 1: Capsid protein

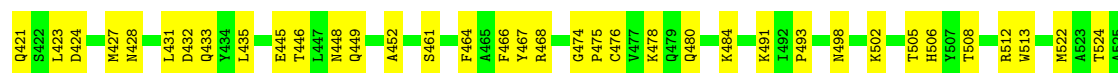
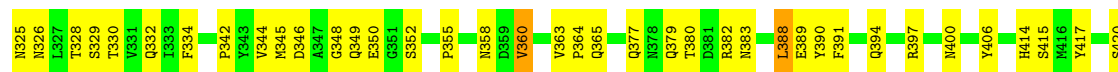
Chain u: 67% 32%





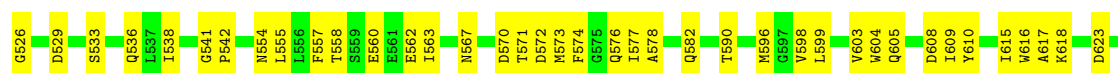
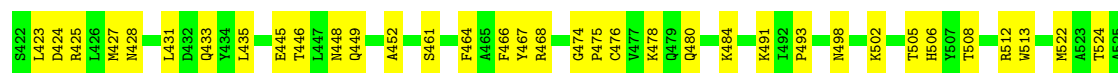
• Molecule 1: Capsid protein

Chain v: 67% 33%



• Molecule 1: Capsid protein

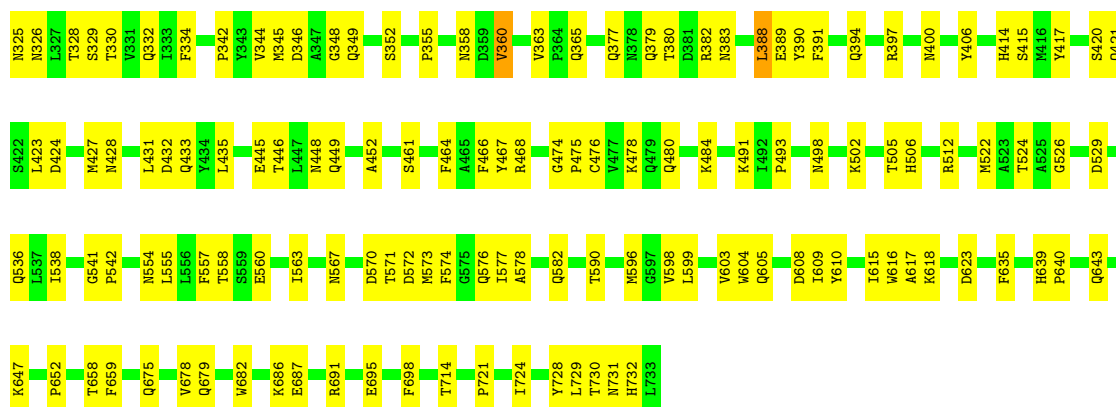
Chain w: 67% 33%



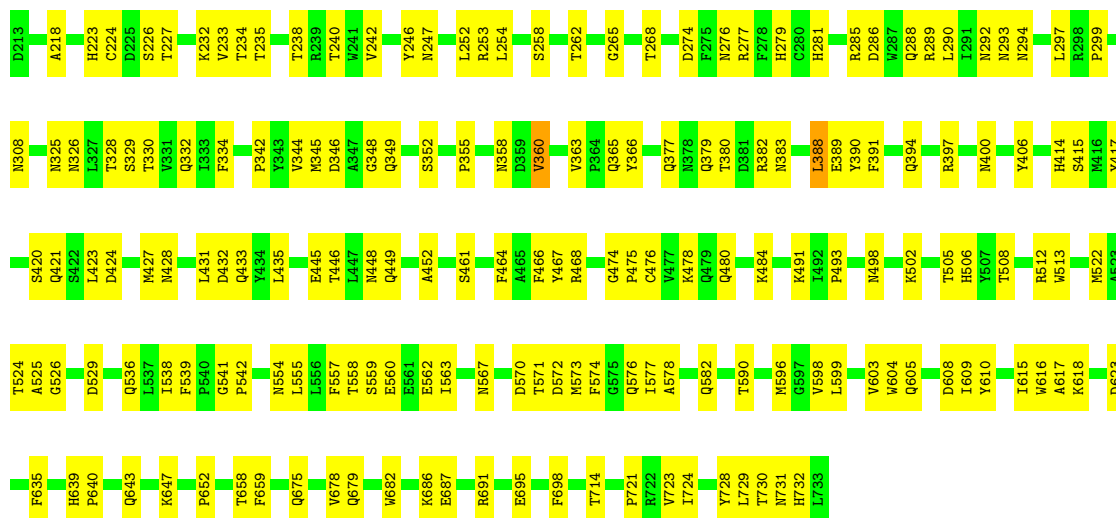
• Molecule 1: Capsid protein

Chain x: 68% 32%

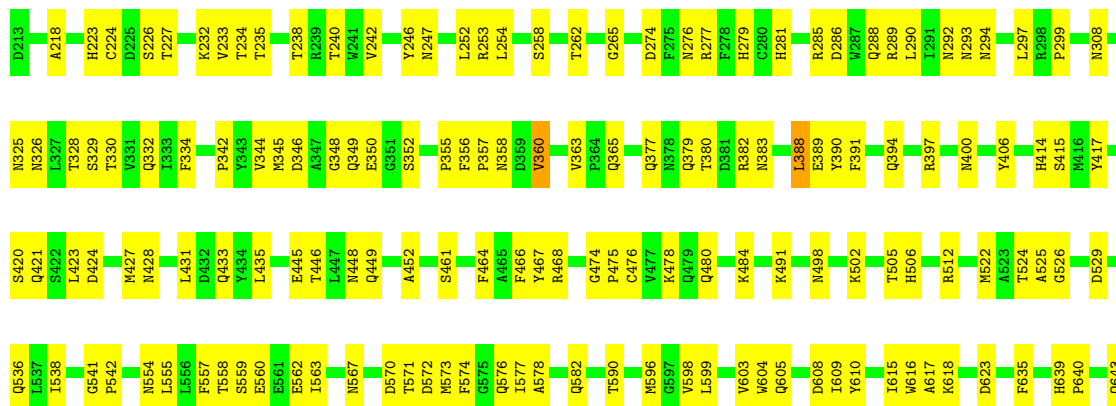




• Molecule 1: Capsid protein

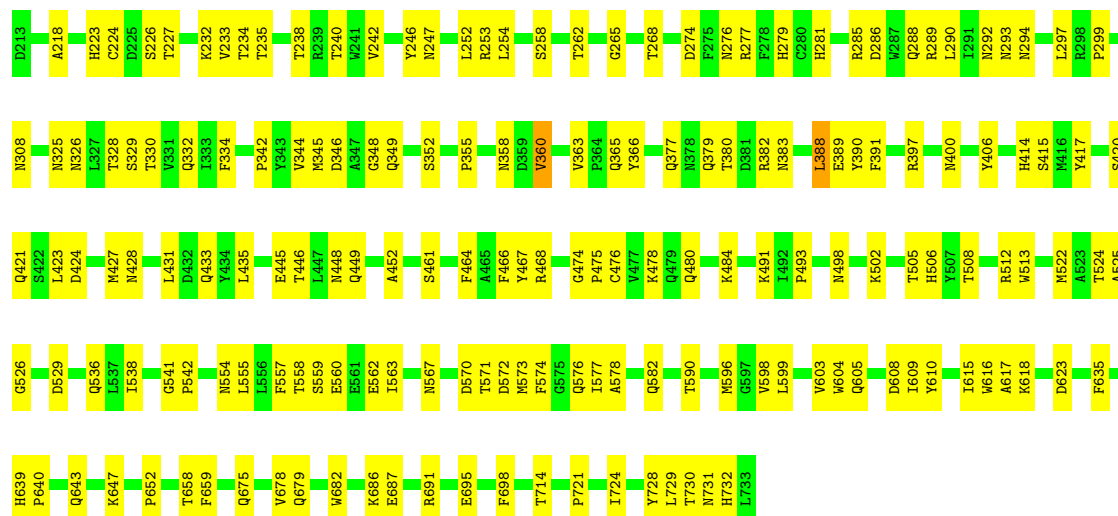


• Molecule 1: Capsid protein

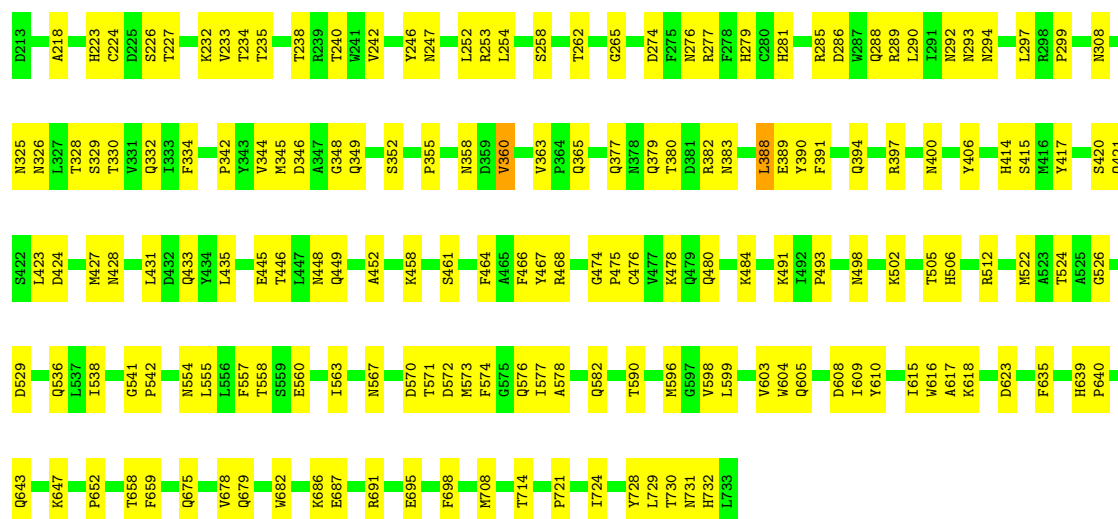




• Molecule 1: Capsid protein

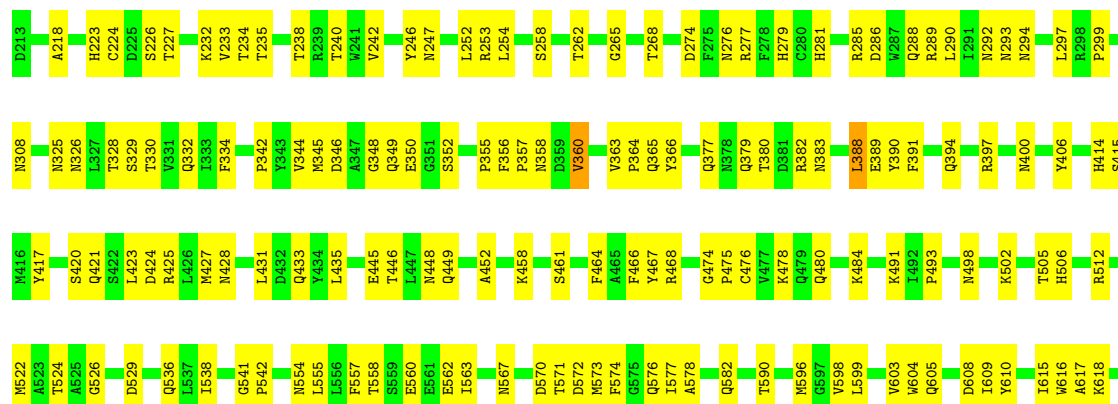


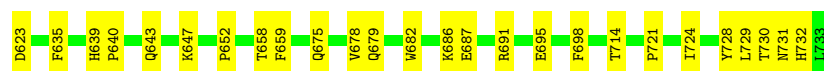
• Molecule 1: Capsid protein



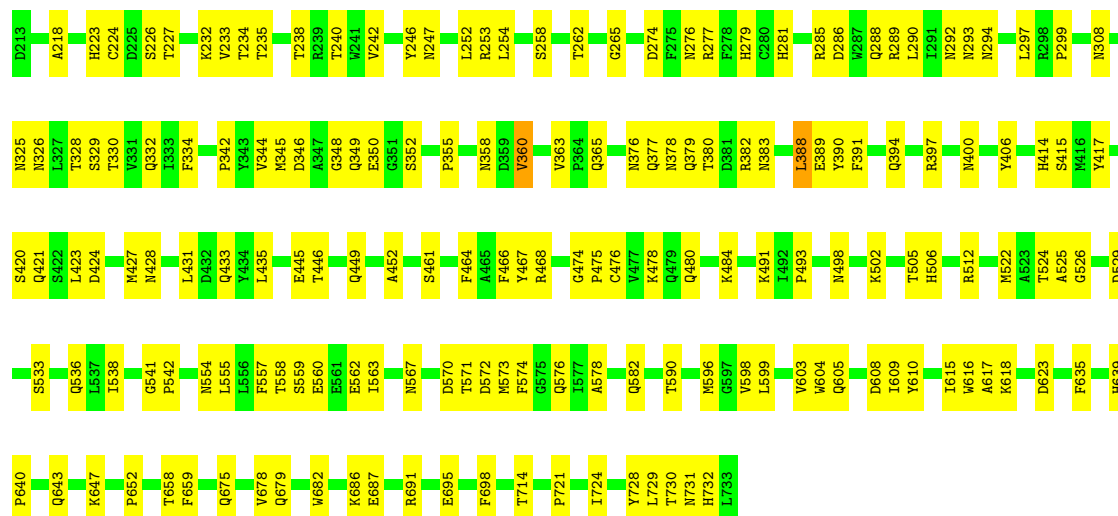
• Molecule 1: Capsid protein



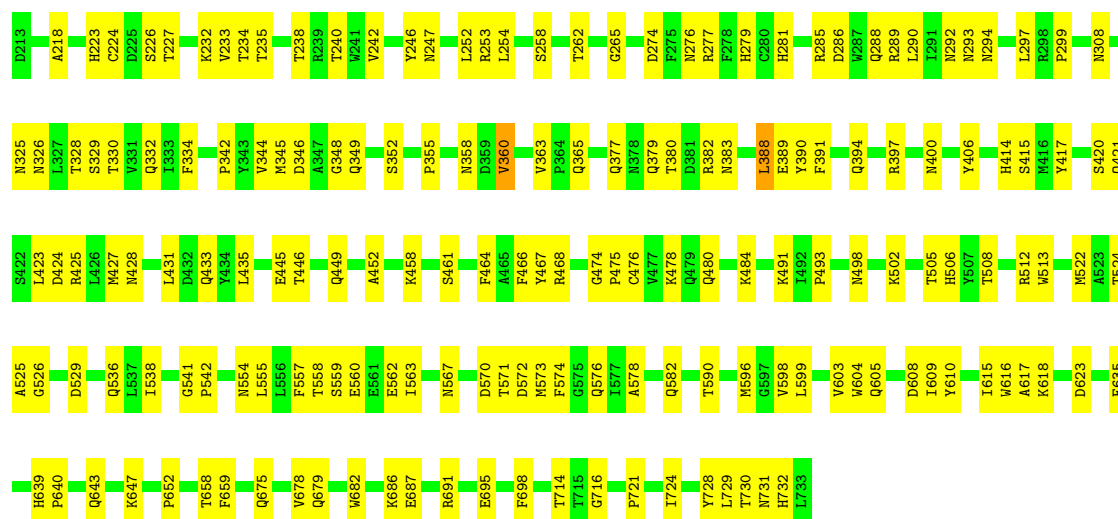




• Molecule 1: Capsid protein



• Molecule 1: Capsid protein



• Molecule 1: Capsid protein



N325	N326	L327	T328	S329	T330	Y331	Q332	I333	F334	P342	Y343	V344	M345	D346	A347	G348	Q349	S352	P355	N358	D359	V360	V363	P364	Q365	Q377	N378	Q379	T380	D381	R382	N383	L388	E389	Y390	F391	Q394	R397	M400	Y406	H414	S415	M416	Y417	S420	Q421
S422	L423	D424	M427	N428	L431	D432	Q433	Y434	L435	E445	T446	L447	N448	Q449	A452	S461	F464	A465	F466	Y467	R468	G474	P475	C476	V477	K478	Q479	Q480	K484	K491	N498	K502	T505	H506	Y507	T508	R512	W513	M522	A523	T524	A525	G526	D529		
Q536	L537	I538	G541	P542	N554	L555	L556	F557	T558	S559	E560	E561	E562	I563	N567	D570	T571	D572	M573	F574	G575	Q576	I577	A578	Q582	T590	M596	G597	V598	L599	V603	W604	Q605	D608	I609	Y610	I615	W616	A617	K618	D623	F635	H639	P640		
Q643	K647	P652	T658	F659	Q675	V678	Q679	W682	K686	E687	R691	E695	F698	T714	P721	I724	Y728	L729	T730	N731	H732	L733																								

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	10429	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	18.201	Depositor
Minimum map value	-9.648	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	468.05002, 468.05002, 468.05002	wwPDB
Map dimensions	550, 550, 550	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.851, 0.851, 0.851	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	0.46	0/4251	0.51	0/5806
1	2	0.46	0/4251	0.51	0/5806
1	3	0.46	0/4251	0.51	0/5806
1	4	0.46	0/4251	0.51	0/5806
1	5	0.46	0/4251	0.51	0/5806
1	6	0.46	0/4251	0.51	0/5806
1	7	0.46	0/4251	0.51	0/5806
1	8	0.46	0/4251	0.51	0/5806
1	A	0.46	0/4251	0.51	0/5806
1	B	0.46	0/4251	0.51	0/5806
1	C	0.46	0/4251	0.51	0/5806
1	D	0.46	0/4251	0.51	0/5806
1	E	0.46	0/4251	0.51	0/5806
1	F	0.46	0/4251	0.51	0/5806
1	G	0.46	0/4251	0.51	0/5806
1	H	0.46	0/4251	0.51	0/5806
1	I	0.46	0/4251	0.51	0/5806
1	J	0.46	0/4251	0.51	0/5806
1	K	0.46	0/4251	0.51	0/5806
1	L	0.46	0/4251	0.51	0/5806
1	M	0.46	0/4251	0.51	0/5806
1	N	0.46	0/4251	0.51	0/5806
1	O	0.46	0/4251	0.51	0/5806
1	P	0.46	0/4251	0.51	0/5806
1	Q	0.46	0/4251	0.51	0/5806
1	R	0.46	0/4251	0.51	0/5806
1	S	0.46	0/4251	0.51	0/5806
1	T	0.46	0/4251	0.51	0/5806
1	U	0.46	0/4251	0.51	0/5806
1	V	0.46	0/4251	0.51	0/5806
1	W	0.46	0/4251	0.51	0/5806
1	X	0.46	0/4251	0.51	0/5806

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	0.46	0/4251	0.51	0/5806
1	Z	0.46	0/4251	0.51	0/5806
1	a	0.46	0/4251	0.51	0/5806
1	b	0.46	0/4251	0.51	0/5806
1	c	0.46	0/4251	0.51	0/5806
1	d	0.46	0/4251	0.51	0/5806
1	e	0.46	0/4251	0.51	0/5806
1	f	0.46	0/4251	0.51	0/5806
1	g	0.46	0/4251	0.51	0/5806
1	h	0.46	0/4251	0.51	0/5806
1	i	0.46	0/4251	0.51	0/5806
1	j	0.46	0/4251	0.51	0/5806
1	k	0.46	0/4251	0.51	0/5806
1	l	0.46	0/4251	0.51	0/5806
1	m	0.46	0/4251	0.51	0/5806
1	n	0.46	0/4251	0.51	0/5806
1	o	0.46	0/4251	0.51	0/5806
1	p	0.46	0/4251	0.51	0/5806
1	q	0.46	0/4251	0.51	0/5806
1	r	0.46	0/4251	0.51	0/5806
1	s	0.46	0/4251	0.51	0/5806
1	t	0.46	0/4251	0.51	0/5806
1	u	0.46	0/4251	0.51	0/5806
1	v	0.46	0/4251	0.51	0/5806
1	w	0.46	0/4251	0.51	0/5806
1	x	0.46	0/4251	0.51	0/5806
1	y	0.46	0/4251	0.51	0/5806
1	z	0.46	0/4251	0.51	0/5806
All	All	0.46	0/255060	0.51	0/348360

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4123	0	3886	152	0
1	2	4123	0	3886	148	0
1	3	4123	0	3886	148	0
1	4	4123	0	3886	151	0
1	5	4123	0	3886	153	0
1	6	4123	0	3886	152	0
1	7	4123	0	3886	147	0
1	8	4123	0	3886	150	0
1	A	4123	0	3886	151	0
1	B	4123	0	3886	153	0
1	C	4123	0	3886	156	0
1	D	4123	0	3886	152	0
1	E	4123	0	3886	150	0
1	F	4123	0	3886	152	0
1	G	4123	0	3886	155	0
1	H	4123	0	3886	150	0
1	I	4123	0	3886	150	0
1	J	4123	0	3886	150	0
1	K	4123	0	3886	152	0
1	L	4123	0	3886	152	0
1	M	4123	0	3886	154	0
1	N	4123	0	3886	153	0
1	O	4123	0	3886	151	0
1	P	4123	0	3886	153	0
1	Q	4123	0	3886	151	0
1	R	4123	0	3886	152	0
1	S	4123	0	3886	153	0
1	T	4123	0	3886	155	0
1	U	4123	0	3886	152	0
1	V	4123	0	3886	152	0
1	W	4123	0	3886	151	0
1	X	4123	0	3886	154	0
1	Y	4123	0	3886	146	0
1	Z	4123	0	3886	150	0
1	a	4123	0	3886	151	0
1	b	4123	0	3886	152	0
1	c	4123	0	3886	157	0
1	d	4123	0	3886	150	0
1	e	4123	0	3886	157	0
1	f	4123	0	3886	152	0
1	g	4123	0	3886	156	0
1	h	4123	0	3886	155	0
1	i	4123	0	3886	151	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4123	0	3886	149	0
1	k	4123	0	3886	153	0
1	l	4123	0	3886	152	0
1	m	4123	0	3886	155	0
1	n	4123	0	3886	154	0
1	o	4123	0	3886	154	0
1	p	4123	0	3886	150	0
1	q	4123	0	3886	153	0
1	r	4123	0	3886	151	0
1	s	4123	0	3886	151	0
1	t	4123	0	3886	154	0
1	u	4123	0	3886	151	0
1	v	4123	0	3886	151	0
1	w	4123	0	3886	151	0
1	x	4123	0	3886	150	0
1	y	4123	0	3886	153	0
1	z	4123	0	3886	152	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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	R	22	0	12	0	0
2	S	22	0	12	0	0
2	T	22	0	12	0	0
2	U	22	0	12	0	0
2	V	22	0	12	0	0
2	W	22	0	12	0	0
2	X	22	0	12	0	0
2	Y	22	0	12	0	0
2	Z	22	0	12	0	0
2	a	22	0	12	0	0
2	b	22	0	12	0	0
2	c	22	0	12	0	0
2	d	22	0	12	0	0
2	e	22	0	12	0	0
2	f	22	0	12	0	0
2	g	22	0	12	0	0
2	h	22	0	12	0	0
2	i	22	0	12	0	0
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	248700	0	233880	7474	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 15.

All (7474) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:285:ARG:NH2	1:O:687:GLU:OE1	1.75	1.19
1:Y:285:ARG:NH2	1:Z:687:GLU:OE1	1.75	1.19
1:i:285:ARG:NH2	1:l:687:GLU:OE1	1.76	1.19
1:j:285:ARG:NH2	1:w:687:GLU:OE1	1.75	1.19
1:7:285:ARG:NH2	1:8:687:GLU:OE1	1.75	1.19
1:J:285:ARG:NH2	1:K:687:GLU:OE1	1.78	1.17
1:C:687:GLU:OE1	1:L:285:ARG:NH2	1.78	1.17
1:W:687:GLU:OE1	1:X:285:ARG:NH2	1.78	1.17
1:a:285:ARG:NH2	1:3:687:GLU:OE1	1.78	1.17
1:g:687:GLU:OE1	1:z:285:ARG:NH2	1.78	1.17
1:o:285:ARG:NH2	1:6:687:GLU:OE1	1.78	1.17
1:2:285:ARG:NH2	1:4:687:GLU:OE1	1.78	1.17
1:a:687:GLU:OE1	1:3:285:ARG:NH2	1.78	1.16
1:E:285:ARG:NH2	1:P:687:GLU:OE1	1.78	1.16
1:U:687:GLU:OE1	1:V:285:ARG:NH2	1.78	1.16
1:b:285:ARG:NH2	1:c:687:GLU:OE1	1.78	1.16
1:e:687:GLU:OE1	1:f:285:ARG:NH2	1.78	1.16
1:p:285:ARG:NH2	1:s:687:GLU:OE1	1.78	1.16
1:p:687:GLU:OE1	1:s:285:ARG:NH2	1.78	1.16
1:u:687:GLU:OE1	1:l:285:ARG:NH2	1.78	1.16
1:B:285:ARG:NH2	1:I:687:GLU:OE1	1.78	1.16
1:S:285:ARG:NH2	1:T:687:GLU:OE1	1.78	1.16
1:U:285:ARG:NH2	1:V:687:GLU:OE1	1.78	1.16
1:C:285:ARG:NH2	1:L:687:GLU:OE1	1.78	1.16
1:W:285:ARG:NH2	1:X:687:GLU:OE1	1.78	1.16
1:g:285:ARG:NH2	1:z:687:GLU:OE1	1.78	1.16
1:m:687:GLU:OE1	1:r:285:ARG:NH2	1.78	1.16
1:J:687:GLU:OE1	1:K:285:ARG:NH2	1.79	1.16
1:o:687:GLU:OE1	1:6:285:ARG:NH2	1.78	1.16
1:G:687:GLU:OE1	1:H:285:ARG:NH2	1.79	1.15
1:2:687:GLU:OE1	1:4:285:ARG:NH2	1.79	1.15
1:h:285:ARG:NH2	1:k:687:GLU:OE1	1.78	1.15
1:t:285:ARG:NH2	1:5:687:GLU:OE1	1.78	1.15
1:t:687:GLU:OE1	1:5:285:ARG:NH2	1.79	1.15
1:A:285:ARG:NH2	1:F:687:GLU:OE1	1.78	1.15
1:D:285:ARG:NH2	1:M:687:GLU:OE1	1.78	1.15
1:G:285:ARG:NH2	1:H:687:GLU:OE1	1.78	1.15
1:b:687:GLU:OE1	1:c:285:ARG:NH2	1.78	1.15
1:v:285:ARG:NH2	1:y:687:GLU:OE1	1.78	1.15
1:D:687:GLU:OE1	1:M:285:ARG:NH2	1.78	1.15
1:E:687:GLU:OE1	1:P:285:ARG:NH2	1.79	1.15
1:e:285:ARG:NH2	1:f:687:GLU:OE1	1.78	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:687:GLU:OE1	1:k:285:ARG:NH2	1.79	1.15
1:i:687:GLU:OE1	1:l:285:ARG:NH2	1.80	1.15
1:A:687:GLU:OE1	1:F:285:ARG:NH2	1.78	1.15
1:B:687:GLU:OE1	1:I:285:ARG:NH2	1.78	1.15
1:N:687:GLU:OE1	1:O:285:ARG:NH2	1.80	1.15
1:u:285:ARG:NH2	1:1:687:GLU:OE1	1.78	1.15
1:7:687:GLU:OE1	1:8:285:ARG:NH2	1.80	1.15
1:Q:687:GLU:OE1	1:R:285:ARG:NH2	1.78	1.14
1:Y:687:GLU:OE1	1:Z:285:ARG:NH2	1.81	1.14
1:d:285:ARG:NH2	1:n:687:GLU:OE1	1.78	1.14
1:q:285:ARG:NH2	1:x:687:GLU:OE1	1.78	1.14
1:d:687:GLU:OE1	1:n:285:ARG:NH2	1.78	1.14
1:v:687:GLU:OE1	1:y:285:ARG:NH2	1.78	1.14
1:j:687:GLU:OE1	1:w:285:ARG:NH2	1.81	1.13
1:q:687:GLU:OE1	1:x:285:ARG:NH2	1.78	1.13
1:Q:285:ARG:NH2	1:R:687:GLU:OE1	1.78	1.13
1:S:687:GLU:OE1	1:T:285:ARG:NH2	1.79	1.12
1:m:285:ARG:NH2	1:r:687:GLU:OE1	1.79	1.12
1:K:389:GLU:OE1	1:7:358:ASN:HA	1.62	1.00
1:Y:358:ASN:HA	1:4:389:GLU:OE1	1.61	1.00
1:j:358:ASN:HA	1:x:389:GLU:OE1	1.62	1.00
1:B:334:PHE:HZ	1:B:388:LEU:CD2	1.75	1.00
1:b:334:PHE:HZ	1:b:388:LEU:CD2	1.75	1.00
1:1:334:PHE:HZ	1:1:388:LEU:CD2	1.75	1.00
1:8:334:PHE:HZ	1:8:388:LEU:CD2	1.75	1.00
1:P:334:PHE:HZ	1:P:388:LEU:CD2	1.75	0.99
1:Z:334:PHE:HZ	1:Z:388:LEU:CD2	1.75	0.99
1:h:358:ASN:HA	1:i:389:GLU:OE1	1.62	0.99
1:j:334:PHE:HZ	1:j:388:LEU:CD2	1.75	0.99
1:M:358:ASN:HA	1:N:389:GLU:OE1	1.62	0.99
1:f:334:PHE:HZ	1:f:388:LEU:CD2	1.75	0.99
1:C:389:GLU:OE1	1:D:358:ASN:HA	1.63	0.99
1:W:334:PHE:HZ	1:W:388:LEU:CD2	1.75	0.99
1:X:334:PHE:HZ	1:X:388:LEU:CD2	1.75	0.99
1:g:389:GLU:OE1	1:k:358:ASN:HA	1.63	0.99
1:o:334:PHE:HZ	1:o:388:LEU:CD2	1.75	0.99
1:C:334:PHE:HZ	1:C:388:LEU:CD2	1.75	0.99
1:F:334:PHE:HZ	1:F:388:LEU:CD2	1.75	0.99
1:p:389:GLU:OE1	1:6:358:ASN:HA	1.63	0.99
1:6:334:PHE:HZ	1:6:388:LEU:CD2	1.75	0.99
1:G:334:PHE:HZ	1:G:388:LEU:CD2	1.75	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:334:PHE:HZ	1:R:388:LEU:CD2	1.75	0.99
1:V:389:GLU:OE1	1:W:358:ASN:HA	1.63	0.99
1:g:334:PHE:HZ	1:g:388:LEU:CD2	1.75	0.99
1:t:334:PHE:HZ	1:t:388:LEU:CD2	1.75	0.99
1:y:334:PHE:HZ	1:y:388:LEU:CD2	1.75	0.99
1:O:389:GLU:OE1	1:d:358:ASN:HA	1.62	0.99
1:3:334:PHE:HZ	1:3:388:LEU:CD2	1.75	0.99
1:H:334:PHE:HZ	1:H:388:LEU:CD2	1.75	0.99
1:O:334:PHE:HZ	1:O:388:LEU:CD2	1.75	0.99
1:Q:358:ASN:HA	1:S:389:GLU:OE1	1.63	0.99
1:a:334:PHE:HZ	1:a:388:LEU:CD2	1.75	0.99
1:p:334:PHE:HZ	1:p:388:LEU:CD2	1.75	0.99
1:v:389:GLU:OE1	1:1:358:ASN:HA	1.62	0.99
1:P:358:ASN:HA	1:Q:389:GLU:OE1	1.63	0.99
1:T:334:PHE:HZ	1:T:388:LEU:CD2	1.75	0.99
1:m:334:PHE:HZ	1:m:388:LEU:CD2	1.75	0.99
1:n:334:PHE:HZ	1:n:388:LEU:CD2	1.75	0.99
1:5:334:PHE:HZ	1:5:388:LEU:CD2	1.75	0.99
1:B:389:GLU:OE1	1:C:358:ASN:HA	1.63	0.99
1:I:334:PHE:HZ	1:I:388:LEU:CD2	1.75	0.99
1:J:334:PHE:HZ	1:J:388:LEU:CD2	1.75	0.99
1:O:358:ASN:HA	1:P:389:GLU:OE1	1.62	0.99
1:V:334:PHE:HZ	1:V:388:LEU:CD2	1.75	0.99
1:d:334:PHE:HZ	1:d:388:LEU:CD2	1.75	0.99
1:i:334:PHE:HZ	1:i:388:LEU:CD2	1.75	0.99
1:l:334:PHE:HZ	1:l:388:LEU:CD2	1.75	0.99
1:q:334:PHE:HZ	1:q:388:LEU:CD2	1.75	0.99
1:r:389:GLU:OE1	1:x:358:ASN:HA	1.63	0.99
1:H:389:GLU:OE1	1:Z:358:ASN:HA	1.62	0.99
1:N:334:PHE:HZ	1:N:388:LEU:CD2	1.75	0.99
1:Q:334:PHE:HZ	1:Q:388:LEU:CD2	1.75	0.99
1:g:358:ASN:HA	1:1:389:GLU:OE1	1.63	0.99
1:l:389:GLU:OE1	1:n:358:ASN:HA	1.63	0.99
1:r:334:PHE:HZ	1:r:388:LEU:CD2	1.75	0.99
1:u:334:PHE:HZ	1:u:388:LEU:CD2	1.75	0.99
1:I:358:ASN:HA	1:J:389:GLU:OE1	1.63	0.98
1:k:389:GLU:OE1	1:w:358:ASN:HA	1.62	0.98
1:2:334:PHE:HZ	1:2:388:LEU:CD2	1.75	0.98
1:5:389:GLU:OE1	1:8:358:ASN:HA	1.62	0.98
1:M:389:GLU:OE1	1:c:358:ASN:HA	1.63	0.98
1:S:334:PHE:HZ	1:S:388:LEU:CD2	1.75	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:358:ASN:HA	1:Y:389:GLU:OE1	1.62	0.98
1:Z:389:GLU:OE1	1:a:358:ASN:HA	1.63	0.98
1:o:358:ASN:HA	1:7:389:GLU:OE1	1.62	0.98
1:u:358:ASN:HA	1:2:389:GLU:OE1	1.63	0.98
1:x:334:PHE:HZ	1:x:388:LEU:CD2	1.75	0.98
1:3:358:ASN:HA	1:8:389:GLU:OE1	1.62	0.98
1:A:389:GLU:OE1	1:B:358:ASN:HA	1.63	0.98
1:e:358:ASN:HA	1:h:389:GLU:OE1	1.63	0.98
1:N:358:ASN:HA	1:m:389:GLU:OE1	1.62	0.98
1:w:334:PHE:HZ	1:w:388:LEU:CD2	1.75	0.98
1:D:389:GLU:OE1	1:E:358:ASN:HA	1.63	0.98
1:E:334:PHE:HZ	1:E:388:LEU:CD2	1.75	0.98
1:j:389:GLU:OE1	1:l:358:ASN:HA	1.62	0.98
1:z:389:GLU:OE1	1:4:358:ASN:HA	1.63	0.98
1:K:358:ASN:HA	1:L:389:GLU:OE1	1.62	0.98
1:n:389:GLU:OE1	1:r:358:ASN:HA	1.62	0.98
1:D:334:PHE:HZ	1:D:388:LEU:CD2	1.75	0.98
1:F:389:GLU:OE1	1:R:358:ASN:HA	1.62	0.98
1:T:389:GLU:OE1	1:i:358:ASN:HA	1.62	0.98
1:U:334:PHE:HZ	1:U:388:LEU:CD2	1.75	0.98
1:q:358:ASN:HA	1:y:389:GLU:OE1	1.62	0.98
1:t:389:GLU:OE1	1:y:358:ASN:HA	1.63	0.98
1:s:334:PHE:HZ	1:s:388:LEU:CD2	1.75	0.98
1:K:334:PHE:HZ	1:K:388:LEU:CD2	1.75	0.97
1:S:358:ASN:HA	1:d:389:GLU:OE1	1.62	0.97
1:k:334:PHE:HZ	1:k:388:LEU:CD2	1.75	0.97
1:m:358:ASN:HA	1:s:389:GLU:OE1	1.62	0.97
1:F:358:ASN:HA	1:G:389:GLU:OE1	1.63	0.97
1:G:358:ASN:HA	1:W:389:GLU:OE1	1.62	0.97
1:Y:334:PHE:HZ	1:Y:388:LEU:CD2	1.75	0.97
1:4:334:PHE:HZ	1:4:388:LEU:CD2	1.75	0.97
1:7:334:PHE:HZ	1:7:388:LEU:CD2	1.75	0.97
1:A:334:PHE:HZ	1:A:388:LEU:CD2	1.75	0.97
1:T:358:ASN:HA	1:U:389:GLU:OE1	1.62	0.97
1:c:334:PHE:HZ	1:c:388:LEU:CD2	1.75	0.97
1:2:358:ASN:HA	1:3:389:GLU:OE1	1.62	0.97
1:J:358:ASN:HA	1:a:389:GLU:OE1	1.62	0.97
1:c:389:GLU:OE1	1:s:358:ASN:HA	1.62	0.97
1:e:334:PHE:HZ	1:e:388:LEU:CD2	1.75	0.97
1:h:334:PHE:HZ	1:h:388:LEU:CD2	1.75	0.97
1:v:334:PHE:HZ	1:v:388:LEU:CD2	1.75	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:334:PHE:HZ	1:z:388:LEU:CD2	1.75	0.97
1:U:358:ASN:HA	1:e:389:GLU:OE1	1.62	0.97
1:p:358:ASN:HA	1:q:389:GLU:OE1	1.63	0.97
1:t:358:ASN:HA	1:6:389:GLU:OE1	1.63	0.97
1:A:358:ASN:HA	1:E:389:GLU:OE1	1.63	0.97
1:L:334:PHE:HZ	1:L:388:LEU:CD2	1.75	0.97
1:M:334:PHE:HZ	1:M:388:LEU:CD2	1.75	0.97
1:R:389:GLU:OE1	1:V:358:ASN:HA	1.63	0.97
1:u:389:GLU:OE1	1:5:358:ASN:HA	1.63	0.97
1:X:389:GLU:OE1	1:f:358:ASN:HA	1.63	0.96
1:v:358:ASN:HA	1:w:389:GLU:OE1	1.63	0.96
1:H:358:ASN:HA	1:I:389:GLU:OE1	1.63	0.96
1:L:358:ASN:HA	1:b:389:GLU:OE1	1.62	0.96
1:b:358:ASN:HA	1:o:389:GLU:OE1	1.63	0.96
1:f:389:GLU:OE1	1:z:358:ASN:HA	1.62	0.96
1:U:253:ARG:HH21	1:U:379:GLN:HE22	1.18	0.91
1:s:253:ARG:HH21	1:s:379:GLN:HE22	1.18	0.91
1:d:253:ARG:HH21	1:d:379:GLN:HE22	1.18	0.91
1:x:253:ARG:HH21	1:x:379:GLN:HE22	1.18	0.91
1:N:253:ARG:HH21	1:N:379:GLN:HE22	1.18	0.91
1:Q:253:ARG:HH21	1:Q:379:GLN:HE22	1.18	0.91
1:v:253:ARG:HH21	1:v:379:GLN:HE22	1.18	0.91
1:P:253:ARG:HH21	1:P:379:GLN:HE22	1.18	0.91
1:i:253:ARG:HH21	1:i:379:GLN:HE22	1.18	0.91
1:n:253:ARG:HH21	1:n:379:GLN:HE22	1.18	0.91
1:W:253:ARG:HH21	1:W:379:GLN:HE22	1.18	0.91
1:j:253:ARG:HH21	1:j:379:GLN:HE22	1.18	0.91
1:A:253:ARG:HH21	1:A:379:GLN:HE22	1.18	0.91
1:6:253:ARG:HH21	1:6:379:GLN:HE22	1.18	0.91
1:E:253:ARG:HH21	1:E:379:GLN:HE22	1.18	0.91
1:l:253:ARG:HH21	1:l:379:GLN:HE22	1.18	0.91
1:O:253:ARG:HH21	1:O:379:GLN:HE22	1.18	0.91
1:w:253:ARG:HH21	1:w:379:GLN:HE22	1.18	0.90
1:C:253:ARG:HH21	1:C:379:GLN:HE22	1.18	0.90
1:L:253:ARG:HH21	1:L:379:GLN:HE22	1.18	0.90
1:R:253:ARG:HH21	1:R:379:GLN:HE22	1.18	0.90
1:z:253:ARG:HH21	1:z:379:GLN:HE22	1.18	0.90
1:5:253:ARG:HH21	1:5:379:GLN:HE22	1.18	0.90
1:a:253:ARG:HH21	1:a:379:GLN:HE22	1.18	0.90
1:g:253:ARG:HH21	1:g:379:GLN:HE22	1.18	0.90
1:q:253:ARG:HH21	1:q:379:GLN:HE22	1.18	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:253:ARG:HH21	1:I:379:GLN:HE22	1.18	0.90
1:H:253:ARG:HH21	1:H:379:GLN:HE22	1.18	0.90
1:c:253:ARG:HH21	1:c:379:GLN:HE22	1.18	0.90
1:u:253:ARG:HH21	1:u:379:GLN:HE22	1.18	0.90
1:3:253:ARG:HH21	1:3:379:GLN:HE22	1.18	0.90
1:G:253:ARG:HH21	1:G:379:GLN:HE22	1.18	0.90
1:e:253:ARG:HH21	1:e:379:GLN:HE22	1.18	0.89
1:h:253:ARG:HH21	1:h:379:GLN:HE22	1.18	0.89
1:t:253:ARG:HH21	1:t:379:GLN:HE22	1.18	0.89
1:M:253:ARG:HH21	1:M:379:GLN:HE22	1.18	0.89
1:Z:253:ARG:HH21	1:Z:379:GLN:HE22	1.18	0.89
1:8:253:ARG:HH21	1:8:379:GLN:HE22	1.18	0.89
1:m:253:ARG:HH21	1:m:379:GLN:HE22	1.18	0.89
1:T:253:ARG:HH21	1:T:379:GLN:HE22	1.18	0.88
1:S:253:ARG:HH21	1:S:379:GLN:HE22	1.18	0.88
1:Y:253:ARG:HH21	1:Y:379:GLN:HE22	1.18	0.88
1:7:253:ARG:HH21	1:7:379:GLN:HE22	1.18	0.88
1:F:253:ARG:HH21	1:F:379:GLN:HE22	1.18	0.88
1:y:253:ARG:HH21	1:y:379:GLN:HE22	1.18	0.88
1:r:253:ARG:HH21	1:r:379:GLN:HE22	1.18	0.88
1:4:253:ARG:HH21	1:4:379:GLN:HE22	1.18	0.87
1:K:253:ARG:HH21	1:K:379:GLN:HE22	1.18	0.87
1:Y:334:PHE:HZ	1:Y:388:LEU:HD23	1.40	0.87
1:o:334:PHE:HZ	1:o:388:LEU:HD23	1.40	0.87
1:7:334:PHE:HZ	1:7:388:LEU:HD23	1.40	0.87
1:X:334:PHE:HZ	1:X:388:LEU:HD23	1.40	0.87
1:E:334:PHE:HZ	1:E:388:LEU:HD23	1.40	0.87
1:V:253:ARG:HH21	1:V:379:GLN:HE22	1.18	0.87
1:b:334:PHE:HZ	1:b:388:LEU:HD23	1.40	0.87
1:w:334:PHE:HZ	1:w:388:LEU:HD23	1.40	0.87
1:f:334:PHE:HZ	1:f:388:LEU:HD23	1.40	0.87
1:p:253:ARG:HH21	1:p:379:GLN:HE22	1.18	0.87
1:D:253:ARG:HH21	1:D:379:GLN:HE22	1.18	0.87
1:N:253:ARG:HH22	1:N:377:GLN:HE21	1.23	0.87
1:i:253:ARG:HH22	1:i:377:GLN:HE21	1.23	0.87
1:k:253:ARG:HH21	1:k:379:GLN:HE22	1.18	0.87
1:B:253:ARG:HH22	1:B:377:GLN:HE21	1.23	0.87
1:C:253:ARG:HH22	1:C:377:GLN:HE21	1.23	0.87
1:G:253:ARG:HH22	1:G:377:GLN:HE21	1.23	0.87
1:c:253:ARG:HH22	1:c:377:GLN:HE21	1.23	0.87
1:e:253:ARG:HH22	1:e:377:GLN:HE21	1.23	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:253:ARG:HH22	1:g:377:GLN:HE21	1.23	0.87
1:l:253:ARG:HH22	1:l:377:GLN:HE21	1.23	0.87
1:s:334:PHE:HZ	1:s:388:LEU:HD23	1.40	0.87
1:t:253:ARG:HH22	1:t:377:GLN:HE21	1.23	0.87
1:B:334:PHE:HZ	1:B:388:LEU:HD23	1.40	0.86
1:U:334:PHE:HZ	1:U:388:LEU:HD23	1.40	0.86
1:1:334:PHE:HZ	1:1:388:LEU:HD23	1.40	0.86
1:T:334:PHE:HZ	1:T:388:LEU:HD23	1.40	0.86
1:Y:253:ARG:HH22	1:Y:377:GLN:HE21	1.23	0.86
1:m:334:PHE:HZ	1:m:388:LEU:HD23	1.40	0.86
1:x:334:PHE:HZ	1:x:388:LEU:HD23	1.40	0.86
1:7:253:ARG:HH22	1:7:377:GLN:HE21	1.23	0.86
1:5:334:PHE:HZ	1:5:388:LEU:HD23	1.40	0.86
1:d:334:PHE:HZ	1:d:388:LEU:HD23	1.40	0.86
1:t:334:PHE:HZ	1:t:388:LEU:HD23	1.40	0.86
1:A:334:PHE:HZ	1:A:388:LEU:HD23	1.40	0.86
1:G:334:PHE:HZ	1:G:388:LEU:HD23	1.40	0.86
1:H:334:PHE:HZ	1:H:388:LEU:HD23	1.40	0.86
1:n:334:PHE:HZ	1:n:388:LEU:HD23	1.40	0.86
1:L:253:ARG:HH22	1:L:377:GLN:HE21	1.23	0.86
1:Q:334:PHE:HZ	1:Q:388:LEU:HD23	1.40	0.86
1:J:253:ARG:HH21	1:J:379:GLN:HE22	1.18	0.86
1:v:334:PHE:HZ	1:v:388:LEU:HD23	1.40	0.86
1:z:253:ARG:HH22	1:z:377:GLN:HE21	1.23	0.86
1:b:253:ARG:HH21	1:b:379:GLN:HE22	1.18	0.86
1:K:334:PHE:HZ	1:K:388:LEU:HD23	1.40	0.86
1:f:253:ARG:HH21	1:f:379:GLN:HE22	1.18	0.86
1:Q:253:ARG:HH22	1:Q:377:GLN:HE21	1.23	0.85
1:x:253:ARG:HH22	1:x:377:GLN:HE21	1.23	0.85
1:4:253:ARG:HH22	1:4:377:GLN:HE21	1.23	0.85
1:C:334:PHE:HZ	1:C:388:LEU:HD23	1.40	0.85
1:2:253:ARG:HH21	1:2:379:GLN:HE22	1.18	0.85
1:I:334:PHE:HZ	1:I:388:LEU:HD23	1.40	0.85
1:o:253:ARG:HH21	1:o:379:GLN:HE22	1.18	0.85
1:4:334:PHE:HZ	1:4:388:LEU:HD23	1.40	0.85
1:J:253:ARG:HH22	1:J:377:GLN:HE21	1.23	0.85
1:K:253:ARG:HH22	1:K:377:GLN:HE21	1.23	0.85
1:a:334:PHE:HZ	1:a:388:LEU:HD23	1.40	0.85
1:h:334:PHE:HZ	1:h:388:LEU:HD23	1.40	0.85
1:y:253:ARG:HH22	1:y:377:GLN:HE21	1.23	0.85
1:2:334:PHE:HZ	1:2:388:LEU:HD23	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:334:PHE:HZ	1:3:388:LEU:HD23	1.40	0.85
1:F:253:ARG:HH22	1:F:377:GLN:HE21	1.23	0.85
1:J:334:PHE:HZ	1:J:388:LEU:HD23	1.40	0.85
1:M:334:PHE:HZ	1:M:388:LEU:HD23	1.40	0.85
1:g:334:PHE:HZ	1:g:388:LEU:HD23	1.40	0.85
1:u:334:PHE:HZ	1:u:388:LEU:HD23	1.40	0.85
1:3:253:ARG:HH22	1:3:377:GLN:HE21	1.23	0.85
1:X:253:ARG:HH22	1:X:377:GLN:HE21	1.23	0.85
1:p:253:ARG:HH22	1:p:377:GLN:HE21	1.23	0.85
1:w:253:ARG:HH22	1:w:377:GLN:HE21	1.23	0.85
1:F:334:PHE:HZ	1:F:388:LEU:HD23	1.40	0.85
1:X:253:ARG:HH21	1:X:379:GLN:HE22	1.18	0.85
1:a:253:ARG:HH22	1:a:377:GLN:HE21	1.23	0.85
1:y:334:PHE:HZ	1:y:388:LEU:HD23	1.40	0.85
1:2:253:ARG:HH22	1:2:377:GLN:HE21	1.23	0.85
1:6:253:ARG:HH22	1:6:377:GLN:HE21	1.23	0.85
1:E:253:ARG:HH22	1:E:377:GLN:HE21	1.23	0.85
1:E:596:MET:HE3	1:E:599:LEU:HD11	1.59	0.85
1:Q:596:MET:HE3	1:Q:599:LEU:HD11	1.59	0.85
1:V:253:ARG:HH22	1:V:377:GLN:HE21	1.23	0.85
1:d:596:MET:HE3	1:d:599:LEU:HD11	1.59	0.85
1:h:596:MET:HE3	1:h:599:LEU:HD11	1.59	0.85
1:n:596:MET:HE3	1:n:599:LEU:HD11	1.59	0.85
1:q:253:ARG:HH22	1:q:377:GLN:HE21	1.23	0.85
1:F:596:MET:HE3	1:F:599:LEU:HD11	1.59	0.85
1:M:596:MET:HE3	1:M:599:LEU:HD11	1.59	0.85
1:S:334:PHE:HZ	1:S:388:LEU:HD23	1.40	0.85
1:W:253:ARG:HH22	1:W:377:GLN:HE21	1.23	0.85
1:a:596:MET:HE3	1:a:599:LEU:HD11	1.59	0.85
1:e:334:PHE:HZ	1:e:388:LEU:HD23	1.40	0.85
1:o:253:ARG:HH22	1:o:377:GLN:HE21	1.23	0.85
1:t:596:MET:HE3	1:t:599:LEU:HD11	1.59	0.85
1:w:596:MET:HE3	1:w:599:LEU:HD11	1.59	0.85
1:y:596:MET:HE3	1:y:599:LEU:HD11	1.59	0.85
1:3:596:MET:HE3	1:3:599:LEU:HD11	1.59	0.85
1:G:596:MET:HE3	1:G:599:LEU:HD11	1.59	0.85
1:H:596:MET:HE3	1:H:599:LEU:HD11	1.59	0.85
1:Y:596:MET:HE3	1:Y:599:LEU:HD11	1.59	0.85
1:s:596:MET:HE3	1:s:599:LEU:HD11	1.59	0.85
1:x:596:MET:HE3	1:x:599:LEU:HD11	1.59	0.85
1:1:596:MET:HE3	1:1:599:LEU:HD11	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:596:MET:HE3	1:5:599:LEU:HD11	1.59	0.85
1:7:596:MET:HE3	1:7:599:LEU:HD11	1.59	0.85
1:B:253:ARG:HH21	1:B:379:GLN:HE22	1.18	0.84
1:B:596:MET:HE3	1:B:599:LEU:HD11	1.59	0.84
1:R:253:ARG:HH22	1:R:377:GLN:HE21	1.23	0.84
1:R:334:PHE:HZ	1:R:388:LEU:HD23	1.40	0.84
1:U:596:MET:HE3	1:U:599:LEU:HD11	1.59	0.84
1:r:334:PHE:HZ	1:r:388:LEU:HD23	1.40	0.84
1:L:334:PHE:HZ	1:L:388:LEU:HD23	1.40	0.84
1:P:334:PHE:HZ	1:P:388:LEU:HD23	1.40	0.84
1:c:334:PHE:HZ	1:c:388:LEU:HD23	1.40	0.84
1:f:596:MET:HE3	1:f:599:LEU:HD11	1.59	0.84
1:O:596:MET:HE3	1:O:599:LEU:HD11	1.59	0.84
1:V:334:PHE:HZ	1:V:388:LEU:HD23	1.40	0.84
1:W:596:MET:HE3	1:W:599:LEU:HD11	1.59	0.84
1:6:596:MET:HE3	1:6:599:LEU:HD11	1.59	0.84
1:Z:253:ARG:HH22	1:Z:377:GLN:HE21	1.23	0.84
1:b:596:MET:HE3	1:b:599:LEU:HD11	1.59	0.84
1:j:334:PHE:HZ	1:j:388:LEU:HD23	1.40	0.84
1:n:253:ARG:HH22	1:n:377:GLN:HE21	1.23	0.84
1:J:596:MET:HE3	1:J:599:LEU:HD11	1.59	0.84
1:S:253:ARG:HH22	1:S:377:GLN:HE21	1.23	0.84
1:U:253:ARG:HH22	1:U:377:GLN:HE21	1.23	0.84
1:l:596:MET:HE3	1:l:599:LEU:HD11	1.59	0.84
1:q:334:PHE:HZ	1:q:388:LEU:HD23	1.40	0.84
1:1:253:ARG:HH21	1:1:379:GLN:HE22	1.18	0.84
1:8:253:ARG:HH22	1:8:377:GLN:HE21	1.23	0.84
1:p:334:PHE:HZ	1:p:388:LEU:HD23	1.40	0.84
1:z:334:PHE:HZ	1:z:388:LEU:HD23	1.40	0.84
1:d:253:ARG:HH22	1:d:377:GLN:HE21	1.23	0.84
1:g:596:MET:HE3	1:g:599:LEU:HD11	1.59	0.84
1:r:253:ARG:HH22	1:r:377:GLN:HE21	1.23	0.84
1:s:253:ARG:HH22	1:s:377:GLN:HE21	1.23	0.84
1:2:596:MET:HE3	1:2:599:LEU:HD11	1.59	0.84
1:5:253:ARG:HH22	1:5:377:GLN:HE21	1.23	0.84
1:J:258:SER:O	1:J:262:THR:OG1	1.96	0.84
1:W:334:PHE:HZ	1:W:388:LEU:HD23	1.40	0.84
1:g:258:SER:O	1:g:262:THR:OG1	1.96	0.84
1:2:258:SER:O	1:2:262:THR:OG1	1.96	0.84
1:6:334:PHE:HZ	1:6:388:LEU:HD23	1.40	0.84
1:8:334:PHE:HZ	1:8:388:LEU:HD23	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:258:SER:O	1:C:262:THR:OG1	1.96	0.84
1:C:596:MET:HE3	1:C:599:LEU:HD11	1.59	0.84
1:P:253:ARG:HH22	1:P:377:GLN:HE21	1.23	0.84
1:S:596:MET:HE3	1:S:599:LEU:HD11	1.59	0.84
1:A:258:SER:O	1:A:262:THR:OG1	1.96	0.84
1:N:258:SER:O	1:N:262:THR:OG1	1.96	0.84
1:b:253:ARG:HH22	1:b:377:GLN:HE21	1.23	0.84
1:c:596:MET:HE3	1:c:599:LEU:HD11	1.59	0.84
1:f:253:ARG:HH22	1:f:377:GLN:HE21	1.23	0.84
1:i:258:SER:O	1:i:262:THR:OG1	1.96	0.84
1:i:596:MET:HE3	1:i:599:LEU:HD11	1.59	0.84
1:l:334:PHE:HZ	1:l:388:LEU:HD23	1.40	0.84
1:v:258:SER:O	1:v:262:THR:OG1	1.96	0.84
1:H:253:ARG:HH22	1:H:377:GLN:HE21	1.23	0.83
1:N:596:MET:HE3	1:N:599:LEU:HD11	1.59	0.83
1:O:334:PHE:HZ	1:O:388:LEU:HD23	1.40	0.83
1:Z:334:PHE:HZ	1:Z:388:LEU:HD23	1.40	0.83
1:Z:334:PHE:CZ	1:Z:388:LEU:CD2	2.61	0.83
1:e:596:MET:HE3	1:e:599:LEU:HD11	1.59	0.83
1:r:596:MET:HE3	1:r:599:LEU:HD11	1.59	0.83
1:8:334:PHE:CZ	1:8:388:LEU:CD2	2.61	0.83
1:L:334:PHE:CZ	1:L:388:LEU:CD2	2.61	0.83
1:m:258:SER:O	1:m:262:THR:OG1	1.96	0.83
1:m:596:MET:HE3	1:m:599:LEU:HD11	1.59	0.83
1:A:334:PHE:CZ	1:A:388:LEU:CD2	2.62	0.83
1:B:258:SER:O	1:B:262:THR:OG1	1.96	0.83
1:G:334:PHE:CZ	1:G:388:LEU:CD2	2.62	0.83
1:R:334:PHE:CZ	1:R:388:LEU:CD2	2.61	0.83
1:T:258:SER:O	1:T:262:THR:OG1	1.96	0.83
1:h:258:SER:O	1:h:262:THR:OG1	1.96	0.83
1:j:253:ARG:HH22	1:j:377:GLN:HE21	1.23	0.83
1:t:334:PHE:CZ	1:t:388:LEU:CD2	2.62	0.83
1:z:334:PHE:CZ	1:z:388:LEU:CD2	2.62	0.83
1:4:596:MET:HE3	1:4:599:LEU:HD11	1.59	0.83
1:C:334:PHE:CZ	1:C:388:LEU:CD2	2.62	0.83
1:o:286:ASP:OD2	1:7:390:TYR:OH	1.96	0.83
1:q:334:PHE:CZ	1:q:388:LEU:CD2	2.61	0.83
1:F:258:SER:O	1:F:262:THR:OG1	1.96	0.83
1:F:334:PHE:CZ	1:F:388:LEU:CD2	2.62	0.83
1:K:596:MET:HE3	1:K:599:LEU:HD11	1.59	0.83
1:M:258:SER:O	1:M:262:THR:OG1	1.96	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:334:PHE:CZ	1:T:388:LEU:CD2	2.62	0.83
1:T:596:MET:HE3	1:T:599:LEU:HD11	1.59	0.83
1:X:286:ASP:OD2	1:Y:390:TYR:OH	1.96	0.83
1:g:334:PHE:CZ	1:g:388:LEU:CD2	2.62	0.83
1:m:334:PHE:CZ	1:m:388:LEU:CD2	2.62	0.83
1:v:334:PHE:CZ	1:v:388:LEU:CD2	2.62	0.83
1:1:258:SER:O	1:1:262:THR:OG1	1.96	0.83
1:8:596:MET:HE3	1:8:599:LEU:HD11	1.59	0.83
1:Y:334:PHE:CZ	1:Y:388:LEU:CD2	2.61	0.83
1:Z:596:MET:HE3	1:Z:599:LEU:HD11	1.59	0.83
1:r:258:SER:O	1:r:262:THR:OG1	1.96	0.83
1:y:258:SER:O	1:y:262:THR:OG1	1.96	0.83
1:y:334:PHE:CZ	1:y:388:LEU:CD2	2.62	0.83
1:z:258:SER:O	1:z:262:THR:OG1	1.96	0.83
1:G:258:SER:O	1:G:262:THR:OG1	1.96	0.83
1:N:334:PHE:HZ	1:N:388:LEU:HD23	1.40	0.83
1:S:258:SER:O	1:S:262:THR:OG1	1.96	0.83
1:Z:258:SER:O	1:Z:262:THR:OG1	1.96	0.83
1:h:286:ASP:OD2	1:i:390:TYR:OH	1.96	0.83
1:o:334:PHE:CZ	1:o:388:LEU:CD2	2.62	0.83
1:t:258:SER:O	1:t:262:THR:OG1	1.96	0.83
1:7:334:PHE:CZ	1:7:388:LEU:CD2	2.61	0.83
1:D:258:SER:O	1:D:262:THR:OG1	1.96	0.83
1:L:258:SER:O	1:L:262:THR:OG1	1.96	0.83
1:O:258:SER:O	1:O:262:THR:OG1	1.96	0.83
1:X:334:PHE:CZ	1:X:388:LEU:CD2	2.62	0.83
1:i:334:PHE:HZ	1:i:388:LEU:HD23	1.40	0.83
1:p:334:PHE:CZ	1:p:388:LEU:CD2	2.62	0.83
1:u:258:SER:O	1:u:262:THR:OG1	1.96	0.83
1:6:334:PHE:CZ	1:6:388:LEU:CD2	2.62	0.83
1:M:286:ASP:OD2	1:N:390:TYR:OH	1.96	0.83
1:P:258:SER:O	1:P:262:THR:OG1	1.96	0.83
1:V:334:PHE:CZ	1:V:388:LEU:CD2	2.62	0.83
1:W:334:PHE:CZ	1:W:388:LEU:CD2	2.62	0.83
1:j:334:PHE:CZ	1:j:388:LEU:CD2	2.62	0.83
1:k:258:SER:O	1:k:262:THR:OG1	1.96	0.83
1:k:334:PHE:HZ	1:k:388:LEU:HD23	1.40	0.83
1:v:253:ARG:HH22	1:v:377:GLN:HE21	1.23	0.83
1:8:258:SER:O	1:8:262:THR:OG1	1.96	0.83
1:A:253:ARG:HH22	1:A:377:GLN:HE21	1.23	0.83
1:I:258:SER:O	1:I:262:THR:OG1	1.96	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:596:MET:HE3	1:L:599:LEU:HD11	1.59	0.83
1:P:334:PHE:CZ	1:P:388:LEU:CD2	2.62	0.83
1:W:258:SER:O	1:W:262:THR:OG1	1.96	0.83
1:j:258:SER:O	1:j:262:THR:OG1	1.96	0.83
1:l:258:SER:O	1:l:262:THR:OG1	1.96	0.83
1:6:258:SER:O	1:6:262:THR:OG1	1.96	0.83
1:7:258:SER:O	1:7:262:THR:OG1	1.96	0.83
1:E:258:SER:O	1:E:262:THR:OG1	1.96	0.82
1:N:334:PHE:CZ	1:N:388:LEU:CD2	2.61	0.82
1:z:596:MET:HE3	1:z:599:LEU:HD11	1.59	0.82
1:3:334:PHE:CZ	1:3:388:LEU:CD2	2.62	0.82
1:A:596:MET:HE3	1:A:599:LEU:HD11	1.59	0.82
1:P:596:MET:HE3	1:P:599:LEU:HD11	1.59	0.82
1:Y:258:SER:O	1:Y:262:THR:OG1	1.96	0.82
1:a:334:PHE:CZ	1:a:388:LEU:CD2	2.62	0.82
1:c:258:SER:O	1:c:262:THR:OG1	1.96	0.82
1:f:334:PHE:CZ	1:f:388:LEU:CD2	2.62	0.82
1:q:596:MET:HE3	1:q:599:LEU:HD11	1.59	0.82
1:w:258:SER:O	1:w:262:THR:OG1	1.96	0.82
1:D:334:PHE:HZ	1:D:388:LEU:HD23	1.40	0.82
1:M:334:PHE:CZ	1:M:388:LEU:CD2	2.62	0.82
1:U:334:PHE:CZ	1:U:388:LEU:CD2	2.61	0.82
1:b:334:PHE:CZ	1:b:388:LEU:CD2	2.62	0.82
1:i:334:PHE:CZ	1:i:388:LEU:CD2	2.62	0.82
1:n:334:PHE:CZ	1:n:388:LEU:CD2	2.62	0.82
1:M:253:ARG:HH22	1:M:377:GLN:HE21	1.23	0.82
1:O:334:PHE:CZ	1:O:388:LEU:CD2	2.61	0.82
1:R:596:MET:HE3	1:R:599:LEU:HD11	1.59	0.82
1:d:258:SER:O	1:d:262:THR:OG1	1.96	0.82
1:e:258:SER:O	1:e:262:THR:OG1	1.96	0.82
1:h:334:PHE:CZ	1:h:388:LEU:CD2	2.62	0.82
1:j:596:MET:HE3	1:j:599:LEU:HD11	1.59	0.82
1:l:334:PHE:CZ	1:l:388:LEU:CD2	2.61	0.82
1:s:334:PHE:CZ	1:s:388:LEU:CD2	2.61	0.82
1:E:334:PHE:CZ	1:E:388:LEU:CD2	2.62	0.82
1:I:253:ARG:HH22	1:I:377:GLN:HE21	1.23	0.82
1:I:596:MET:HE3	1:I:599:LEU:HD11	1.59	0.82
1:K:258:SER:O	1:K:262:THR:OG1	1.96	0.82
1:X:596:MET:HE3	1:X:599:LEU:HD11	1.59	0.82
1:d:334:PHE:CZ	1:d:388:LEU:CD2	2.61	0.82
1:m:253:ARG:HH22	1:m:377:GLN:HE21	1.23	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:258:SER:O	1:n:262:THR:OG1	1.96	0.82
1:o:596:MET:HE3	1:o:599:LEU:HD11	1.59	0.82
1:u:253:ARG:HH22	1:u:377:GLN:HE21	1.23	0.82
1:w:334:PHE:CZ	1:w:388:LEU:CD2	2.62	0.82
1:R:258:SER:O	1:R:262:THR:OG1	1.96	0.82
1:X:258:SER:O	1:X:262:THR:OG1	1.96	0.82
1:h:253:ARG:HH22	1:h:377:GLN:HE21	1.23	0.82
1:j:390:TYR:OH	1:l:286:ASP:OD2	1.96	0.82
1:v:596:MET:HE3	1:v:599:LEU:HD11	1.59	0.82
1:4:258:SER:O	1:4:262:THR:OG1	1.96	0.82
1:4:334:PHE:CZ	1:4:388:LEU:CD2	2.62	0.82
1:H:334:PHE:CZ	1:H:388:LEU:CD2	2.62	0.82
1:K:334:PHE:CZ	1:K:388:LEU:CD2	2.62	0.82
1:U:258:SER:O	1:U:262:THR:OG1	1.96	0.82
1:o:258:SER:O	1:o:262:THR:OG1	1.96	0.82
1:s:258:SER:O	1:s:262:THR:OG1	1.96	0.82
1:u:596:MET:HE3	1:u:599:LEU:HD11	1.59	0.82
1:T:253:ARG:HH22	1:T:377:GLN:HE21	1.23	0.82
1:B:334:PHE:CZ	1:B:388:LEU:CD2	2.61	0.82
1:q:258:SER:O	1:q:262:THR:OG1	1.96	0.82
1:5:334:PHE:CZ	1:5:388:LEU:CD2	2.62	0.82
1:H:258:SER:O	1:H:262:THR:OG1	1.96	0.82
1:k:334:PHE:CZ	1:k:388:LEU:CD2	2.62	0.82
1:p:258:SER:O	1:p:262:THR:OG1	1.96	0.82
1:D:596:MET:HE3	1:D:599:LEU:HD11	1.59	0.81
1:p:596:MET:HE3	1:p:599:LEU:HD11	1.59	0.81
1:1:334:PHE:CZ	1:1:388:LEU:CD2	2.61	0.81
1:5:258:SER:O	1:5:262:THR:OG1	1.96	0.81
1:D:334:PHE:CZ	1:D:388:LEU:CD2	2.62	0.81
1:V:258:SER:O	1:V:262:THR:OG1	1.96	0.81
1:V:596:MET:HE3	1:V:599:LEU:HD11	1.59	0.81
1:c:334:PHE:CZ	1:c:388:LEU:CD2	2.62	0.81
1:k:596:MET:HE3	1:k:599:LEU:HD11	1.59	0.81
1:Q:286:ASP:OD2	1:S:390:TYR:OH	1.99	0.81
1:e:334:PHE:CZ	1:e:388:LEU:CD2	2.62	0.81
1:f:258:SER:O	1:f:262:THR:OG1	1.96	0.81
1:l:253:ARG:HH22	1:l:377:GLN:HE21	1.23	0.81
1:r:334:PHE:CZ	1:r:388:LEU:CD2	2.62	0.81
1:r:390:TYR:OH	1:x:286:ASP:OD2	1.99	0.81
1:u:334:PHE:CZ	1:u:388:LEU:CD2	2.62	0.81
1:I:334:PHE:CZ	1:I:388:LEU:CD2	2.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:390:TYR:OH	1:n:286:ASP:OD2	1.99	0.81
1:O:253:ARG:HH22	1:O:377:GLN:HE21	1.23	0.81
1:O:390:TYR:OH	1:d:286:ASP:OD2	1.99	0.81
1:R:390:TYR:OH	1:V:286:ASP:OD2	1.99	0.81
1:S:334:PHE:CZ	1:S:388:LEU:CD2	2.62	0.81
1:b:258:SER:O	1:b:262:THR:OG1	1.96	0.81
1:k:253:ARG:HH22	1:k:377:GLN:HE21	1.23	0.81
1:I:326:ASN:ND2	1:I:329:SER:OG	2.14	0.81
1:J:326:ASN:ND2	1:J:329:SER:OG	2.14	0.81
1:J:334:PHE:CZ	1:J:388:LEU:CD2	2.62	0.81
1:T:286:ASP:OD2	1:U:390:TYR:OH	1.99	0.81
1:U:286:ASP:OD2	1:e:390:TYR:OH	1.99	0.81
1:X:390:TYR:OH	1:f:286:ASP:OD2	1.99	0.81
1:a:326:ASN:ND2	1:a:329:SER:OG	2.14	0.81
1:b:286:ASP:OD2	1:o:390:TYR:OH	1.99	0.81
1:c:390:TYR:OH	1:s:286:ASP:OD2	1.99	0.81
1:g:326:ASN:ND2	1:g:329:SER:OG	2.14	0.81
1:p:286:ASP:OD2	1:q:390:TYR:OH	1.99	0.81
1:u:326:ASN:ND2	1:u:329:SER:OG	2.14	0.81
1:y:326:ASN:ND2	1:y:329:SER:OG	2.14	0.81
1:2:326:ASN:ND2	1:2:329:SER:OG	2.14	0.81
1:3:326:ASN:ND2	1:3:329:SER:OG	2.14	0.81
1:C:326:ASN:ND2	1:C:329:SER:OG	2.14	0.81
1:F:326:ASN:ND2	1:F:329:SER:OG	2.14	0.81
1:F:390:TYR:OH	1:R:286:ASP:OD2	1.99	0.81
1:d:326:ASN:ND2	1:d:329:SER:OG	2.14	0.81
1:m:286:ASP:OD2	1:s:390:TYR:OH	1.99	0.81
1:n:326:ASN:ND2	1:n:329:SER:OG	2.14	0.81
1:q:286:ASP:OD2	1:y:390:TYR:OH	1.99	0.81
1:r:326:ASN:ND2	1:r:329:SER:OG	2.14	0.81
1:2:334:PHE:CZ	1:2:388:LEU:CD2	2.62	0.81
1:5:390:TYR:OH	1:8:286:ASP:OD2	1.99	0.81
1:H:390:TYR:OH	1:Z:286:ASP:OD2	1.99	0.81
1:Q:258:SER:O	1:Q:262:THR:OG1	1.96	0.81
1:Q:326:ASN:ND2	1:Q:329:SER:OG	2.14	0.81
1:Q:334:PHE:CZ	1:Q:388:LEU:CD2	2.62	0.81
1:S:326:ASN:ND2	1:S:329:SER:OG	2.14	0.81
1:X:326:ASN:ND2	1:X:329:SER:OG	2.14	0.81
1:i:326:ASN:ND2	1:i:329:SER:OG	2.14	0.81
1:o:326:ASN:ND2	1:o:329:SER:OG	2.14	0.81
1:x:326:ASN:ND2	1:x:329:SER:OG	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:ARG:HH22	1:D:377:GLN:HE21	1.23	0.81
1:I:286:ASP:OD2	1:J:390:TYR:OH	1.99	0.81
1:K:390:TYR:OH	1:7:286:ASP:OD2	1.98	0.81
1:a:258:SER:O	1:a:262:THR:OG1	1.96	0.81
1:v:286:ASP:OD2	1:w:390:TYR:OH	1.99	0.81
1:3:258:SER:O	1:3:262:THR:OG1	1.96	0.81
1:N:326:ASN:ND2	1:N:329:SER:OG	2.14	0.81
1:P:326:ASN:ND2	1:P:329:SER:OG	2.14	0.81
1:Y:286:ASP:OD2	1:4:390:TYR:OH	1.98	0.81
1:m:326:ASN:ND2	1:m:329:SER:OG	2.14	0.81
1:u:286:ASP:OD2	1:2:390:TYR:OH	1.99	0.81
1:x:258:SER:O	1:x:262:THR:OG1	1.96	0.81
1:x:334:PHE:CZ	1:x:388:LEU:CD2	2.62	0.81
1:E:326:ASN:ND2	1:E:329:SER:OG	2.14	0.80
1:L:326:ASN:ND2	1:L:329:SER:OG	2.14	0.80
1:M:326:ASN:ND2	1:M:329:SER:OG	2.14	0.80
1:N:286:ASP:OD2	1:m:390:TYR:OH	1.98	0.80
1:S:286:ASP:OD2	1:d:390:TYR:OH	1.99	0.80
1:T:326:ASN:ND2	1:T:329:SER:OG	2.14	0.80
1:T:390:TYR:OH	1:i:286:ASP:OD2	1.98	0.80
1:Y:326:ASN:ND2	1:Y:329:SER:OG	2.14	0.80
1:h:326:ASN:ND2	1:h:329:SER:OG	2.14	0.80
1:n:390:TYR:OH	1:r:286:ASP:OD2	1.99	0.80
1:w:326:ASN:ND2	1:w:329:SER:OG	2.14	0.80
1:z:326:ASN:ND2	1:z:329:SER:OG	2.14	0.80
1:5:326:ASN:ND2	1:5:329:SER:OG	2.14	0.80
1:7:326:ASN:ND2	1:7:329:SER:OG	2.14	0.80
1:A:286:ASP:OD2	1:E:390:TYR:OH	1.99	0.80
1:H:326:ASN:ND2	1:H:329:SER:OG	2.14	0.80
1:j:326:ASN:ND2	1:j:329:SER:OG	2.14	0.80
1:F:286:ASP:OD2	1:G:390:TYR:OH	1.99	0.80
1:G:326:ASN:ND2	1:G:329:SER:OG	2.14	0.80
1:c:326:ASN:ND2	1:c:329:SER:OG	2.14	0.80
1:q:326:ASN:ND2	1:q:329:SER:OG	2.14	0.80
1:t:390:TYR:OH	1:y:286:ASP:OD2	1.99	0.80
1:B:326:ASN:ND2	1:B:329:SER:OG	2.14	0.80
1:R:326:ASN:ND2	1:R:329:SER:OG	2.14	0.80
1:V:326:ASN:ND2	1:V:329:SER:OG	2.14	0.80
1:e:326:ASN:ND2	1:e:329:SER:OG	2.14	0.80
1:k:390:TYR:OH	1:w:286:ASP:OD2	1.99	0.80
1:p:326:ASN:ND2	1:p:329:SER:OG	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:326:ASN:ND2	1:t:329:SER:OG	2.14	0.80
1:P:286:ASP:OD2	1:Q:390:TYR:OH	1.99	0.80
1:k:326:ASN:ND2	1:k:329:SER:OG	2.14	0.80
1:1:326:ASN:ND2	1:1:329:SER:OG	2.14	0.80
1:D:326:ASN:ND2	1:D:329:SER:OG	2.14	0.80
1:K:286:ASP:OD2	1:L:390:TYR:OH	1.99	0.80
1:U:326:ASN:ND2	1:U:329:SER:OG	2.14	0.80
1:j:286:ASP:OD2	1:x:390:TYR:OH	1.99	0.80
1:p:390:TYR:OH	1:6:286:ASP:OD2	1.99	0.80
1:s:326:ASN:ND2	1:s:329:SER:OG	2.14	0.80
1:z:390:TYR:OH	1:4:286:ASP:OD2	1.99	0.80
1:3:286:ASP:OD2	1:8:390:TYR:OH	1.99	0.80
1:D:390:TYR:OH	1:E:286:ASP:OD2	1.99	0.80
1:V:390:TYR:OH	1:W:286:ASP:OD2	1.99	0.80
1:f:326:ASN:ND2	1:f:329:SER:OG	2.14	0.80
1:J:286:ASP:OD2	1:a:390:TYR:OH	1.99	0.80
1:Z:390:TYR:OH	1:a:286:ASP:OD2	1.99	0.80
1:u:390:TYR:OH	1:5:286:ASP:OD2	1.99	0.80
1:8:326:ASN:ND2	1:8:329:SER:OG	2.14	0.80
1:A:390:TYR:OH	1:B:286:ASP:OD2	1.99	0.80
1:H:286:ASP:OD2	1:I:390:TYR:OH	1.99	0.80
1:Z:326:ASN:ND2	1:Z:329:SER:OG	2.14	0.80
1:b:326:ASN:ND2	1:b:329:SER:OG	2.14	0.80
1:f:390:TYR:OH	1:z:286:ASP:OD2	1.99	0.80
1:4:326:ASN:ND2	1:4:329:SER:OG	2.14	0.80
1:v:326:ASN:ND2	1:v:329:SER:OG	2.14	0.80
1:2:286:ASP:OD2	1:3:390:TYR:OH	1.99	0.80
1:K:326:ASN:ND2	1:K:329:SER:OG	2.14	0.79
1:W:326:ASN:ND2	1:W:329:SER:OG	2.14	0.79
1:e:286:ASP:OD2	1:h:390:TYR:OH	1.99	0.79
1:6:326:ASN:ND2	1:6:329:SER:OG	2.14	0.79
1:A:326:ASN:ND2	1:A:329:SER:OG	2.14	0.79
1:B:390:TYR:OH	1:C:286:ASP:OD2	1.99	0.79
1:L:286:ASP:OD2	1:b:390:TYR:OH	1.99	0.79
1:M:390:TYR:OH	1:c:286:ASP:OD2	1.99	0.79
1:O:326:ASN:ND2	1:O:329:SER:OG	2.14	0.79
1:t:286:ASP:OD2	1:6:390:TYR:OH	1.99	0.79
1:C:390:TYR:OH	1:D:286:ASP:OD2	1.99	0.79
1:G:286:ASP:OD2	1:W:390:TYR:OH	1.99	0.79
1:g:286:ASP:OD2	1:1:390:TYR:OH	1.99	0.79
1:g:390:TYR:OH	1:k:286:ASP:OD2	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:326:ASN:ND2	1:l:329:SER:OG	2.14	0.79
1:v:390:TYR:OH	1:1:286:ASP:OD2	1.99	0.79
1:O:286:ASP:OD2	1:P:390:TYR:OH	1.99	0.78
1:N:358:ASN:CA	1:m:389:GLU:OE1	2.31	0.78
1:X:358:ASN:CA	1:Y:389:GLU:OE1	2.32	0.78
1:T:389:GLU:OE1	1:i:358:ASN:CA	2.31	0.78
1:o:358:ASN:CA	1:7:389:GLU:OE1	2.32	0.77
1:K:389:GLU:OE1	1:7:358:ASN:CA	2.31	0.77
1:Y:358:ASN:CA	1:4:389:GLU:OE1	2.31	0.77
1:f:389:GLU:OE1	1:z:358:ASN:CA	2.33	0.77
1:j:358:ASN:CA	1:x:389:GLU:OE1	2.31	0.77
1:j:389:GLU:OE1	1:l:358:ASN:CA	2.32	0.77
1:L:358:ASN:CA	1:b:389:GLU:OE1	2.33	0.77
1:A:358:ASN:CA	1:E:389:GLU:OE1	2.33	0.77
1:D:389:GLU:OE1	1:E:358:ASN:CA	2.33	0.77
1:k:389:GLU:OE1	1:w:358:ASN:CA	2.33	0.77
1:X:389:GLU:OE1	1:f:358:ASN:CA	2.33	0.77
1:b:358:ASN:CA	1:o:389:GLU:OE1	2.33	0.77
1:v:358:ASN:CA	1:w:389:GLU:OE1	2.33	0.77
1:F:358:ASN:CA	1:G:389:GLU:OE1	2.33	0.77
1:Z:389:GLU:OE1	1:a:358:ASN:CA	2.33	0.77
1:t:389:GLU:OE1	1:y:358:ASN:CA	2.33	0.77
1:u:389:GLU:OE1	1:5:358:ASN:CA	2.33	0.77
1:3:358:ASN:CA	1:8:389:GLU:OE1	2.33	0.77
1:H:358:ASN:CA	1:I:389:GLU:OE1	2.33	0.77
1:M:358:ASN:CA	1:N:389:GLU:OE1	2.32	0.77
1:O:358:ASN:CA	1:P:389:GLU:OE1	2.33	0.77
1:h:358:ASN:CA	1:i:389:GLU:OE1	2.32	0.76
1:6:582:GLN:OE1	1:7:480:GLN:NE2	2.18	0.76
1:B:389:GLU:OE1	1:C:358:ASN:CA	2.33	0.76
1:U:358:ASN:CA	1:e:389:GLU:OE1	2.33	0.76
1:W:582:GLN:OE1	1:Y:480:GLN:NE2	2.18	0.76
1:c:389:GLU:OE1	1:s:358:ASN:CA	2.33	0.76
1:i:480:GLN:NE2	1:k:582:GLN:OE1	2.18	0.76
1:n:389:GLU:OE1	1:r:358:ASN:CA	2.33	0.76
1:D:582:GLN:OE1	1:N:480:GLN:NE2	2.18	0.76
1:S:358:ASN:CA	1:d:389:GLU:OE1	2.33	0.76
1:g:358:ASN:CA	1:l:389:GLU:OE1	2.33	0.76
1:Q:358:ASN:CA	1:S:389:GLU:OE1	2.33	0.76
1:p:358:ASN:CA	1:q:389:GLU:OE1	2.33	0.76
1:R:389:GLU:OE1	1:V:358:ASN:CA	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:389:GLU:OE1	1:x:358:ASN:CA	2.33	0.76
1:T:358:ASN:CA	1:U:389:GLU:OE1	2.33	0.76
1:p:389:GLU:OE1	1:6:358:ASN:CA	2.33	0.76
1:v:389:GLU:OE1	1:1:358:ASN:CA	2.33	0.76
1:V:389:GLU:OE1	1:W:358:ASN:CA	2.33	0.76
1:m:358:ASN:CA	1:s:389:GLU:OE1	2.33	0.76
1:O:389:GLU:OE1	1:d:358:ASN:CA	2.33	0.76
1:l:389:GLU:OE1	1:n:358:ASN:CA	2.33	0.76
1:F:389:GLU:OE1	1:R:358:ASN:CA	2.33	0.75
1:P:358:ASN:CA	1:Q:389:GLU:OE1	2.33	0.75
1:q:358:ASN:CA	1:y:389:GLU:OE1	2.33	0.75
1:C:389:GLU:OE1	1:D:358:ASN:CA	2.33	0.75
1:I:358:ASN:CA	1:J:389:GLU:OE1	2.33	0.75
1:g:389:GLU:OE1	1:k:358:ASN:CA	2.33	0.75
1:G:358:ASN:CA	1:W:389:GLU:OE1	2.33	0.75
1:u:358:ASN:CA	1:2:389:GLU:OE1	2.33	0.75
1:H:389:GLU:OE1	1:Z:358:ASN:CA	2.33	0.75
1:2:358:ASN:CA	1:3:389:GLU:OE1	2.33	0.75
1:J:358:ASN:CA	1:a:389:GLU:OE1	2.33	0.75
1:t:358:ASN:CA	1:6:389:GLU:OE1	2.33	0.75
1:A:389:GLU:OE1	1:B:358:ASN:CA	2.33	0.75
1:5:389:GLU:OE1	1:8:358:ASN:CA	2.33	0.75
1:K:358:ASN:CA	1:L:389:GLU:OE1	2.33	0.74
1:i:582:GLN:OE1	1:j:480:GLN:NE2	2.20	0.74
1:M:389:GLU:OE1	1:c:358:ASN:CA	2.33	0.74
1:e:358:ASN:CA	1:h:389:GLU:OE1	2.33	0.74
1:z:389:GLU:OE1	1:4:358:ASN:CA	2.33	0.74
1:i:578:ALA:H	1:j:505:THR:HG22	1.53	0.74
1:6:578:ALA:H	1:7:505:THR:HG22	1.53	0.74
1:c:578:ALA:H	1:o:505:THR:HG22	1.53	0.74
1:W:578:ALA:H	1:Y:505:THR:HG22	1.53	0.74
1:X:505:THR:HG22	1:e:578:ALA:H	1.53	0.74
1:F:480:GLN:NE2	1:Q:582:GLN:OE1	2.22	0.73
1:R:480:GLN:NE2	1:U:582:GLN:OE1	2.21	0.73
1:Z:480:GLN:NE2	1:3:582:GLN:OE1	2.21	0.73
1:x:582:GLN:OE1	1:y:480:GLN:NE2	2.21	0.73
1:D:480:GLN:NE2	1:P:582:GLN:OE1	2.21	0.73
1:M:480:GLN:NE2	1:b:582:GLN:OE1	2.21	0.73
1:O:480:GLN:NE2	1:n:582:GLN:OE1	2.21	0.73
1:V:582:GLN:OE1	1:e:480:GLN:NE2	2.21	0.73
1:f:582:GLN:OE1	1:h:480:GLN:NE2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:480:GLN:NE2	1:s:582:GLN:OE1	2.21	0.73
1:D:578:ALA:H	1:N:505:THR:HG22	1.53	0.73
1:J:582:GLN:OE1	1:L:480:GLN:NE2	2.21	0.73
1:O:582:GLN:OE1	1:m:480:GLN:NE2	2.21	0.73
1:R:505:THR:HG22	1:U:578:ALA:H	1.54	0.73
1:a:582:GLN:OE1	1:8:480:GLN:NE2	2.21	0.73
1:c:480:GLN:NE2	1:p:582:GLN:OE1	2.21	0.73
1:d:582:GLN:OE1	1:l:480:GLN:NE2	2.21	0.73
1:i:505:THR:HG22	1:k:578:ALA:H	1.53	0.73
1:C:582:GLN:OE1	1:b:480:GLN:NE2	2.21	0.73
1:E:578:ALA:H	1:Q:505:THR:HG22	1.54	0.73
1:M:505:THR:HG22	1:b:578:ALA:H	1.53	0.73
1:T:582:GLN:OE1	1:d:480:GLN:NE2	2.22	0.73
1:d:334:PHE:CZ	1:d:388:LEU:HD23	2.24	0.73
1:f:480:GLN:NE2	1:g:582:GLN:OE1	2.21	0.73
1:f:578:ALA:H	1:h:505:THR:HG22	1.53	0.73
1:m:582:GLN:OE1	1:n:480:GLN:NE2	2.22	0.73
1:q:505:THR:HG22	1:s:578:ALA:H	1.54	0.73
1:t:505:THR:HG22	1:v:578:ALA:H	1.53	0.73
1:z:480:GLN:NE2	1:2:582:GLN:OE1	2.22	0.73
1:A:578:ALA:H	1:G:505:THR:HG22	1.53	0.73
1:F:505:THR:HG22	1:Q:578:ALA:H	1.54	0.73
1:H:582:GLN:OE1	1:W:480:GLN:NE2	2.21	0.73
1:O:505:THR:HG22	1:n:578:ALA:H	1.53	0.73
1:R:582:GLN:OE1	1:S:480:GLN:NE2	2.21	0.73
1:T:480:GLN:NE2	1:l:582:GLN:OE1	2.21	0.73
1:V:334:PHE:CZ	1:V:388:LEU:HD23	2.24	0.73
1:c:334:PHE:CZ	1:c:388:LEU:HD23	2.24	0.73
1:d:578:ALA:H	1:l:505:THR:HG22	1.53	0.73
1:p:334:PHE:CZ	1:p:388:LEU:HD23	2.24	0.73
1:q:582:GLN:OE1	1:r:480:GLN:NE2	2.21	0.73
1:z:582:GLN:OE1	1:l:480:GLN:NE2	2.21	0.73
1:C:480:GLN:NE2	1:M:582:GLN:OE1	2.21	0.73
1:e:334:PHE:CZ	1:e:388:LEU:HD23	2.24	0.73
1:n:334:PHE:CZ	1:n:388:LEU:HD23	2.24	0.73
1:w:578:ALA:H	1:x:505:THR:HG22	1.54	0.73
1:x:578:ALA:H	1:y:505:THR:HG22	1.54	0.73
1:z:578:ALA:H	1:l:505:THR:HG22	1.53	0.73
1:5:582:GLN:OE1	1:6:480:GLN:NE2	2.21	0.73
1:B:505:THR:HG22	1:L:578:ALA:H	1.54	0.73
1:J:578:ALA:H	1:L:505:THR:HG22	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:334:PHE:CZ	1:L:388:LEU:HD23	2.24	0.73
1:Z:274:ASP:OD2	1:Z:352:SER:OG	2.07	0.73
1:Z:582:GLN:OE1	1:4:480:GLN:NE2	2.21	0.73
1:8:274:ASP:OD2	1:8:352:SER:OG	2.07	0.73
1:K:480:GLN:NE2	1:8:582:GLN:OE1	2.21	0.73
1:N:578:ALA:H	1:P:505:THR:HG22	1.54	0.73
1:Z:505:THR:HG22	1:3:578:ALA:H	1.53	0.73
1:g:480:GLN:NE2	1:h:582:GLN:OE1	2.21	0.73
1:o:334:PHE:CZ	1:o:388:LEU:HD23	2.24	0.73
1:u:582:GLN:OE1	1:v:480:GLN:NE2	2.22	0.73
1:z:334:PHE:CZ	1:z:388:LEU:HD23	2.24	0.73
1:3:480:GLN:NE2	1:4:582:GLN:OE1	2.22	0.73
1:5:578:ALA:H	1:6:505:THR:HG22	1.54	0.73
1:B:480:GLN:NE2	1:L:582:GLN:OE1	2.21	0.73
1:H:480:GLN:NE2	1:Y:582:GLN:OE1	2.22	0.73
1:H:578:ALA:H	1:W:505:THR:HG22	1.54	0.73
1:J:334:PHE:CZ	1:J:388:LEU:HD23	2.24	0.73
1:K:582:GLN:OE1	1:a:480:GLN:NE2	2.22	0.73
1:T:578:ALA:H	1:d:505:THR:HG22	1.54	0.73
1:X:334:PHE:CZ	1:X:388:LEU:HD23	2.24	0.73
1:a:578:ALA:H	1:8:505:THR:HG22	1.53	0.73
1:n:274:ASP:OD2	1:n:352:SER:OG	2.07	0.73
1:s:334:PHE:CZ	1:s:388:LEU:HD23	2.24	0.73
1:w:563:ILE:HD12	1:w:567:ASN:HD22	1.54	0.73
1:z:505:THR:HG22	1:2:578:ALA:H	1.54	0.73
1:2:334:PHE:CZ	1:2:388:LEU:HD23	2.24	0.73
1:A:480:GLN:NE2	1:I:582:GLN:OE1	2.22	0.73
1:E:563:ILE:HD12	1:E:567:ASN:HD22	1.54	0.73
1:H:505:THR:HG22	1:Y:578:ALA:H	1.54	0.73
1:J:563:ILE:HD12	1:J:567:ASN:HD22	1.54	0.73
1:S:582:GLN:OE1	1:U:480:GLN:NE2	2.21	0.73
1:U:334:PHE:CZ	1:U:388:LEU:HD23	2.24	0.73
1:V:505:THR:HG22	1:X:578:ALA:H	1.54	0.73
1:d:274:ASP:OD2	1:d:352:SER:OG	2.07	0.73
1:m:578:ALA:H	1:n:505:THR:HG22	1.54	0.73
1:n:563:ILE:HD12	1:n:567:ASN:HD22	1.54	0.73
1:2:563:ILE:HD12	1:2:567:ASN:HD22	1.54	0.73
1:5:480:GLN:NE2	1:7:582:GLN:OE1	2.22	0.73
1:5:505:THR:HG22	1:7:578:ALA:H	1.54	0.73
1:A:582:GLN:OE1	1:G:480:GLN:NE2	2.21	0.72
1:D:274:ASP:OD2	1:D:352:SER:OG	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:505:THR:HG22	1:F:578:ALA:H	1.53	0.72
1:E:582:GLN:OE1	1:Q:480:GLN:NE2	2.21	0.72
1:K:563:ILE:HD12	1:K:567:ASN:HD22	1.54	0.72
1:P:563:ILE:HD12	1:P:567:ASN:HD22	1.54	0.72
1:a:334:PHE:CZ	1:a:388:LEU:HD23	2.24	0.72
1:d:563:ILE:HD12	1:d:567:ASN:HD22	1.54	0.72
1:h:563:ILE:HD12	1:h:567:ASN:HD22	1.54	0.72
1:j:563:ILE:HD12	1:j:567:ASN:HD22	1.54	0.72
1:j:582:GLN:OE1	1:k:480:GLN:NE2	2.22	0.72
1:o:578:ALA:H	1:p:505:THR:HG22	1.54	0.72
1:r:582:GLN:OE1	1:s:480:GLN:NE2	2.21	0.72
1:1:582:GLN:OE1	1:2:480:GLN:NE2	2.21	0.72
1:3:505:THR:HG22	1:4:578:ALA:H	1.54	0.72
1:4:563:ILE:HD12	1:4:567:ASN:HD22	1.54	0.72
1:B:334:PHE:CZ	1:B:388:LEU:HD23	2.24	0.72
1:M:563:ILE:HD12	1:M:567:ASN:HD22	1.54	0.72
1:V:480:GLN:NE2	1:X:582:GLN:OE1	2.21	0.72
1:e:563:ILE:HD12	1:e:567:ASN:HD22	1.55	0.72
1:j:274:ASP:OD2	1:j:352:SER:OG	2.07	0.72
1:p:563:ILE:HD12	1:p:567:ASN:HD22	1.54	0.72
1:t:480:GLN:NE2	1:v:582:GLN:OE1	2.21	0.72
1:3:334:PHE:CZ	1:3:388:LEU:HD23	2.24	0.72
1:B:582:GLN:OE1	1:J:480:GLN:NE2	2.21	0.72
1:K:578:ALA:H	1:a:505:THR:HG22	1.54	0.72
1:V:563:ILE:HD12	1:V:567:ASN:HD22	1.54	0.72
1:V:578:ALA:H	1:e:505:THR:HG22	1.54	0.72
1:W:563:ILE:HD12	1:W:567:ASN:HD22	1.54	0.72
1:b:274:ASP:OD2	1:b:352:SER:OG	2.07	0.72
1:c:563:ILE:HD12	1:c:567:ASN:HD22	1.55	0.72
1:f:274:ASP:OD2	1:f:352:SER:OG	2.07	0.72
1:w:505:THR:HG22	1:y:578:ALA:H	1.53	0.72
1:w:582:GLN:OE1	1:x:480:GLN:NE2	2.21	0.72
1:A:563:ILE:HD12	1:A:567:ASN:HD22	1.54	0.72
1:C:563:ILE:HD12	1:C:567:ASN:HD22	1.54	0.72
1:P:274:ASP:OD2	1:P:352:SER:OG	2.07	0.72
1:o:582:GLN:OE1	1:p:480:GLN:NE2	2.21	0.72
1:s:563:ILE:HD12	1:s:567:ASN:HD22	1.54	0.72
1:1:334:PHE:CZ	1:1:388:LEU:HD23	2.24	0.72
1:2:274:ASP:OD2	1:2:352:SER:OG	2.07	0.72
1:6:563:ILE:HD12	1:6:567:ASN:HD22	1.54	0.72
1:J:274:ASP:OD2	1:J:352:SER:OG	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:563:ILE:HD12	1:L:567:ASN:HD22	1.54	0.72
1:U:563:ILE:HD12	1:U:567:ASN:HD22	1.54	0.72
1:X:480:GLN:NE2	1:e:582:GLN:OE1	2.21	0.72
1:c:505:THR:HG22	1:p:578:ALA:H	1.54	0.72
1:c:582:GLN:OE1	1:o:480:GLN:NE2	2.21	0.72
1:g:563:ILE:HD12	1:g:567:ASN:HD22	1.54	0.72
1:w:274:ASP:OD2	1:w:352:SER:OG	2.07	0.72
1:z:563:ILE:HD12	1:z:567:ASN:HD22	1.54	0.72
1:N:582:GLN:OE1	1:P:480:GLN:NE2	2.22	0.72
1:v:563:ILE:HD12	1:v:567:ASN:HD22	1.54	0.72
1:A:505:THR:HG22	1:I:578:ALA:H	1.54	0.72
1:C:578:ALA:H	1:b:505:THR:HG22	1.54	0.72
1:E:274:ASP:OD2	1:E:352:SER:OG	2.07	0.72
1:G:578:ALA:H	1:I:505:THR:HG22	1.54	0.72
1:T:563:ILE:HD12	1:T:567:ASN:HD22	1.54	0.72
1:Y:563:ILE:HD12	1:Y:567:ASN:HD22	1.54	0.72
1:m:563:ILE:HD12	1:m:567:ASN:HD22	1.54	0.72
1:t:578:ALA:H	1:u:505:THR:HG22	1.54	0.72
1:7:563:ILE:HD12	1:7:567:ASN:HD22	1.54	0.72
1:E:480:GLN:NE2	1:F:582:GLN:OE1	2.21	0.72
1:f:505:THR:HG22	1:g:578:ALA:H	1.54	0.72
1:o:563:ILE:HD12	1:o:567:ASN:HD22	1.54	0.72
1:q:578:ALA:H	1:r:505:THR:HG22	1.54	0.72
1:r:274:ASP:OD2	1:r:352:SER:OG	2.07	0.72
1:u:578:ALA:H	1:v:505:THR:HG22	1.54	0.72
1:w:480:GLN:NE2	1:y:582:GLN:OE1	2.21	0.72
1:H:334:PHE:CZ	1:H:388:LEU:HD23	2.24	0.72
1:M:274:ASP:OD2	1:M:352:SER:OG	2.07	0.72
1:g:505:THR:HG22	1:h:578:ALA:H	1.54	0.72
1:h:274:ASP:OD2	1:h:352:SER:OG	2.07	0.72
1:t:582:GLN:OE1	1:u:480:GLN:NE2	2.21	0.72
1:x:274:ASP:OD2	1:x:352:SER:OG	2.07	0.72
1:5:334:PHE:CZ	1:5:388:LEU:HD23	2.24	0.72
1:G:582:GLN:OE1	1:I:480:GLN:NE2	2.21	0.72
1:O:563:ILE:HD12	1:O:567:ASN:HD22	1.54	0.72
1:R:578:ALA:H	1:S:505:THR:HG22	1.54	0.72
1:S:274:ASP:OD2	1:S:352:SER:OG	2.07	0.72
1:X:563:ILE:HD12	1:X:567:ASN:HD22	1.54	0.72
1:C:505:THR:HG22	1:M:578:ALA:H	1.54	0.71
1:Q:274:ASP:OD2	1:Q:352:SER:OG	2.07	0.71
1:U:274:ASP:OD2	1:U:352:SER:OG	2.07	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:334:PHE:CZ	1:b:388:LEU:HD23	2.24	0.71
1:f:334:PHE:CZ	1:f:388:LEU:HD23	2.24	0.71
1:f:563:ILE:HD12	1:f:567:ASN:HD22	1.55	0.71
1:k:563:ILE:HD12	1:k:567:ASN:HD22	1.54	0.71
1:l:563:ILE:HD12	1:l:567:ASN:HD22	1.54	0.71
1:s:274:ASP:OD2	1:s:352:SER:OG	2.07	0.71
1:Q:563:ILE:HD12	1:Q:567:ASN:HD22	1.54	0.71
1:b:563:ILE:HD12	1:b:567:ASN:HD22	1.55	0.71
1:x:563:ILE:HD12	1:x:567:ASN:HD22	1.54	0.71
1:8:563:ILE:HD12	1:8:567:ASN:HD22	1.54	0.71
1:D:563:ILE:HD12	1:D:567:ASN:HD22	1.54	0.71
1:q:274:ASP:OD2	1:q:352:SER:OG	2.07	0.71
1:4:731:ASN:OD1	1:4:732:HIS:N	2.24	0.71
1:7:334:PHE:CZ	1:7:388:LEU:HD23	2.24	0.71
1:I:731:ASN:OD1	1:I:732:HIS:N	2.24	0.71
1:J:731:ASN:OD1	1:J:732:HIS:N	2.24	0.71
1:K:731:ASN:OD1	1:K:732:HIS:N	2.24	0.71
1:L:731:ASN:OD1	1:L:732:HIS:N	2.24	0.71
1:R:274:ASP:OD2	1:R:352:SER:OG	2.07	0.71
1:S:334:PHE:CZ	1:S:388:LEU:HD23	2.24	0.71
1:Y:334:PHE:CZ	1:Y:388:LEU:HD23	2.24	0.71
1:Z:563:ILE:HD12	1:Z:567:ASN:HD22	1.54	0.71
1:t:274:ASP:OD2	1:t:352:SER:OG	2.07	0.71
1:z:731:ASN:OD1	1:z:732:HIS:N	2.24	0.71
1:2:731:ASN:OD1	1:2:732:HIS:N	2.24	0.71
1:C:731:ASN:OD1	1:C:732:HIS:N	2.24	0.71
1:F:334:PHE:CZ	1:F:388:LEU:HD23	2.24	0.71
1:g:731:ASN:OD1	1:g:732:HIS:N	2.24	0.71
1:q:334:PHE:CZ	1:q:388:LEU:HD23	2.24	0.71
1:r:334:PHE:CZ	1:r:388:LEU:HD23	2.24	0.71
1:u:334:PHE:CZ	1:u:388:LEU:HD23	2.24	0.71
1:u:731:ASN:OD1	1:u:732:HIS:N	2.24	0.71
1:y:334:PHE:CZ	1:y:388:LEU:HD23	2.24	0.71
1:5:563:ILE:HD12	1:5:567:ASN:HD22	1.54	0.71
1:C:274:ASP:OD2	1:C:352:SER:OG	2.07	0.71
1:D:505:THR:HG22	1:P:578:ALA:H	1.54	0.71
1:E:334:PHE:CZ	1:E:388:LEU:HD23	2.24	0.71
1:G:274:ASP:OD2	1:G:352:SER:OG	2.07	0.71
1:H:563:ILE:HD12	1:H:567:ASN:HD22	1.54	0.71
1:N:563:ILE:HD12	1:N:567:ASN:HD22	1.54	0.71
1:S:563:ILE:HD12	1:S:567:ASN:HD22	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:505:THR:HG22	1:l:578:ALA:H	1.54	0.71
1:a:731:ASN:OD1	1:a:732:HIS:N	2.24	0.71
1:g:274:ASP:OD2	1:g:352:SER:OG	2.07	0.71
1:i:563:ILE:HD12	1:i:567:ASN:HD22	1.54	0.71
1:i:731:ASN:OD1	1:i:732:HIS:N	2.24	0.71
1:w:334:PHE:CZ	1:w:388:LEU:HD23	2.24	0.71
1:x:334:PHE:CZ	1:x:388:LEU:HD23	2.24	0.71
1:B:563:ILE:HD12	1:B:567:ASN:HD22	1.54	0.71
1:D:731:ASN:OD1	1:D:732:HIS:N	2.24	0.71
1:F:563:ILE:HD12	1:F:567:ASN:HD22	1.54	0.71
1:F:731:ASN:OD1	1:F:732:HIS:N	2.24	0.71
1:K:505:THR:HG22	1:8:578:ALA:H	1.54	0.71
1:O:578:ALA:H	1:m:505:THR:HG22	1.54	0.71
1:R:731:ASN:OD1	1:R:732:HIS:N	2.24	0.71
1:k:731:ASN:OD1	1:k:732:HIS:N	2.24	0.71
1:q:731:ASN:OD1	1:q:732:HIS:N	2.24	0.71
1:y:731:ASN:OD1	1:y:732:HIS:N	2.24	0.71
1:3:731:ASN:OD1	1:3:732:HIS:N	2.24	0.71
1:H:731:ASN:OD1	1:H:732:HIS:N	2.24	0.71
1:I:334:PHE:CZ	1:I:388:LEU:HD23	2.24	0.71
1:W:334:PHE:CZ	1:W:388:LEU:HD23	2.24	0.71
1:i:334:PHE:CZ	1:i:388:LEU:HD23	2.24	0.71
1:j:578:ALA:H	1:k:505:THR:HG22	1.54	0.71
1:y:563:ILE:HD12	1:y:567:ASN:HD22	1.54	0.71
1:1:578:ALA:H	1:2:505:THR:HG22	1.54	0.71
1:5:731:ASN:OD1	1:5:732:HIS:N	2.24	0.71
1:B:578:ALA:H	1:J:505:THR:HG22	1.54	0.71
1:K:334:PHE:CZ	1:K:388:LEU:HD23	2.24	0.71
1:Q:334:PHE:CZ	1:Q:388:LEU:HD23	2.24	0.71
1:m:334:PHE:CZ	1:m:388:LEU:HD23	2.24	0.71
1:r:563:ILE:HD12	1:r:567:ASN:HD22	1.54	0.71
1:r:578:ALA:H	1:s:505:THR:HG22	1.54	0.71
1:1:563:ILE:HD12	1:1:567:ASN:HD22	1.54	0.71
1:4:334:PHE:CZ	1:4:388:LEU:HD23	2.24	0.71
1:6:334:PHE:CZ	1:6:388:LEU:HD23	2.24	0.71
1:M:334:PHE:CZ	1:M:388:LEU:HD23	2.24	0.71
1:Z:578:ALA:H	1:4:505:THR:HG22	1.54	0.71
1:d:731:ASN:OD1	1:d:732:HIS:N	2.24	0.71
1:n:731:ASN:OD1	1:n:732:HIS:N	2.24	0.71
1:N:334:PHE:CZ	1:N:388:LEU:HD23	2.24	0.70
1:S:578:ALA:H	1:U:505:THR:HG22	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:334:PHE:CZ	1:T:388:LEU:HD23	2.24	0.70
1:c:274:ASP:OD2	1:c:352:SER:OG	2.07	0.70
1:h:334:PHE:CZ	1:h:388:LEU:HD23	2.24	0.70
1:G:731:ASN:OD1	1:G:732:HIS:N	2.24	0.70
1:a:563:ILE:HD12	1:a:567:ASN:HD22	1.54	0.70
1:h:731:ASN:OD1	1:h:732:HIS:N	2.24	0.70
1:t:731:ASN:OD1	1:t:732:HIS:N	2.24	0.70
1:M:731:ASN:OD1	1:M:732:HIS:N	2.24	0.70
1:R:563:ILE:HD12	1:R:567:ASN:HD22	1.54	0.70
1:V:274:ASP:OD2	1:V:352:SER:OG	2.07	0.70
1:e:274:ASP:OD2	1:e:352:SER:OG	2.07	0.70
1:p:274:ASP:OD2	1:p:352:SER:OG	2.07	0.70
1:u:274:ASP:OD2	1:u:352:SER:OG	2.07	0.70
1:G:563:ILE:HD12	1:G:567:ASN:HD22	1.54	0.70
1:b:731:ASN:OD1	1:b:732:HIS:N	2.24	0.70
1:f:731:ASN:OD1	1:f:732:HIS:N	2.24	0.70
1:3:563:ILE:HD12	1:3:567:ASN:HD22	1.54	0.70
1:4:274:ASP:OD2	1:4:352:SER:OG	2.07	0.70
1:e:731:ASN:OD1	1:e:732:HIS:N	2.24	0.70
1:q:563:ILE:HD12	1:q:567:ASN:HD22	1.54	0.70
1:I:274:ASP:OD2	1:I:352:SER:OG	2.07	0.70
1:X:274:ASP:OD2	1:X:352:SER:OG	2.07	0.70
1:a:274:ASP:OD2	1:a:352:SER:OG	2.07	0.70
1:c:731:ASN:OD1	1:c:732:HIS:N	2.24	0.70
1:t:563:ILE:HD12	1:t:567:ASN:HD22	1.54	0.70
1:u:563:ILE:HD12	1:u:567:ASN:HD22	1.54	0.70
1:1:731:ASN:OD1	1:1:732:HIS:N	2.24	0.70
1:B:731:ASN:OD1	1:B:732:HIS:N	2.24	0.70
1:E:731:ASN:OD1	1:E:732:HIS:N	2.24	0.70
1:H:512:ARG:NH1	1:Y:424:ASP:OD2	2.25	0.70
1:i:424:ASP:OD2	1:j:512:ARG:NH1	2.25	0.70
1:3:274:ASP:OD2	1:3:352:SER:OG	2.07	0.70
1:5:512:ARG:NH1	1:7:424:ASP:OD2	2.25	0.70
1:I:563:ILE:HD12	1:I:567:ASN:HD22	1.54	0.70
1:Q:731:ASN:OD1	1:Q:732:HIS:N	2.24	0.70
1:V:731:ASN:OD1	1:V:732:HIS:N	2.24	0.70
1:j:334:PHE:CZ	1:j:388:LEU:HD23	2.24	0.70
1:o:274:ASP:OD2	1:o:352:SER:OG	2.07	0.70
1:w:731:ASN:OD1	1:w:732:HIS:N	2.24	0.70
1:x:731:ASN:OD1	1:x:732:HIS:N	2.24	0.70
1:5:274:ASP:OD2	1:5:352:SER:OG	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:424:ASP:OD2	1:P:512:ARG:NH1	2.25	0.70
1:p:731:ASN:OD1	1:p:732:HIS:N	2.24	0.70
1:v:274:ASP:OD2	1:v:352:SER:OG	2.07	0.70
1:P:334:PHE:CZ	1:P:388:LEU:HD23	2.24	0.69
1:Z:731:ASN:OD1	1:Z:732:HIS:N	2.24	0.69
1:6:274:ASP:OD2	1:6:352:SER:OG	2.07	0.69
1:A:334:PHE:CZ	1:A:388:LEU:HD23	2.24	0.69
1:H:274:ASP:OD2	1:H:352:SER:OG	2.07	0.69
1:S:731:ASN:OD1	1:S:732:HIS:N	2.24	0.69
1:X:731:ASN:OD1	1:X:732:HIS:N	2.24	0.69
1:o:731:ASN:OD1	1:o:732:HIS:N	2.24	0.69
1:8:731:ASN:OD1	1:8:732:HIS:N	2.24	0.69
1:A:274:ASP:OD2	1:A:352:SER:OG	2.07	0.69
1:T:728:TYR:O	1:d:382:ARG:NH2	2.26	0.69
1:m:728:TYR:O	1:n:382:ARG:NH2	2.26	0.69
1:F:382:ARG:NH2	1:Q:728:TYR:O	2.26	0.69
1:U:731:ASN:OD1	1:U:732:HIS:N	2.24	0.69
1:W:274:ASP:OD2	1:W:352:SER:OG	2.07	0.69
1:Y:731:ASN:OD1	1:Y:732:HIS:N	2.24	0.69
1:Z:334:PHE:CZ	1:Z:388:LEU:HD23	2.24	0.69
1:r:731:ASN:OD1	1:r:732:HIS:N	2.24	0.69
1:v:334:PHE:CZ	1:v:388:LEU:HD23	2.24	0.69
1:z:382:ARG:NH2	1:2:728:TYR:O	2.25	0.69
1:B:382:ARG:NH2	1:L:728:TYR:O	2.26	0.69
1:f:382:ARG:NH2	1:g:728:TYR:O	2.26	0.69
1:s:731:ASN:OD1	1:s:732:HIS:N	2.24	0.69
1:t:728:TYR:O	1:u:382:ARG:NH2	2.26	0.69
1:x:728:TYR:O	1:y:382:ARG:NH2	2.26	0.69
1:y:274:ASP:OD2	1:y:352:SER:OG	2.07	0.69
1:A:382:ARG:NH2	1:I:728:TYR:O	2.25	0.69
1:C:382:ARG:NH2	1:M:728:TYR:O	2.26	0.69
1:C:728:TYR:O	1:b:382:ARG:NH2	2.26	0.69
1:G:728:TYR:O	1:I:382:ARG:NH2	2.26	0.69
1:R:382:ARG:NH2	1:U:728:TYR:O	2.26	0.69
1:g:382:ARG:NH2	1:h:728:TYR:O	2.26	0.69
1:j:424:ASP:OD2	1:k:512:ARG:NH1	2.25	0.69
1:z:728:TYR:O	1:1:382:ARG:NH2	2.26	0.69
1:K:382:ARG:NH2	1:8:728:TYR:O	2.26	0.69
1:O:274:ASP:OD2	1:O:352:SER:OG	2.07	0.69
1:R:728:TYR:O	1:S:382:ARG:NH2	2.26	0.69
1:q:382:ARG:NH2	1:s:728:TYR:O	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:382:ARG:NH2	1:4:728:TYR:O	2.26	0.69
1:7:731:ASN:OD1	1:7:732:HIS:N	2.24	0.69
1:8:334:PHE:CZ	1:8:388:LEU:HD23	2.24	0.69
1:E:728:TYR:O	1:Q:382:ARG:NH2	2.26	0.69
1:F:274:ASP:OD2	1:F:352:SER:OG	2.07	0.69
1:K:728:TYR:O	1:a:382:ARG:NH2	2.26	0.69
1:O:728:TYR:O	1:m:382:ARG:NH2	2.26	0.69
1:R:334:PHE:CZ	1:R:388:LEU:HD23	2.24	0.69
1:T:274:ASP:OD2	1:T:352:SER:OG	2.07	0.69
1:T:382:ARG:NH2	1:l:728:TYR:O	2.26	0.69
1:V:728:TYR:O	1:e:382:ARG:NH2	2.26	0.69
1:Z:728:TYR:O	1:4:382:ARG:NH2	2.26	0.69
1:c:382:ARG:NH2	1:p:728:TYR:O	2.26	0.69
1:l:274:ASP:OD2	1:l:352:SER:OG	2.07	0.69
1:q:728:TYR:O	1:r:382:ARG:NH2	2.26	0.69
1:u:728:TYR:O	1:v:382:ARG:NH2	2.26	0.69
1:w:728:TYR:O	1:x:382:ARG:NH2	2.25	0.69
1:6:731:ASN:OD1	1:6:732:HIS:N	2.24	0.69
1:B:728:TYR:O	1:J:382:ARG:NH2	2.26	0.69
1:D:382:ARG:NH2	1:P:728:TYR:O	2.26	0.69
1:J:728:TYR:O	1:L:382:ARG:NH2	2.26	0.69
1:L:325:ASN:ND2	1:b:328:THR:OG1	2.26	0.69
1:O:424:ASP:OD2	1:m:512:ARG:NH1	2.26	0.69
1:T:512:ARG:NH1	1:l:424:ASP:OD2	2.26	0.69
1:m:274:ASP:OD2	1:m:352:SER:OG	2.07	0.69
1:m:731:ASN:OD1	1:m:732:HIS:N	2.24	0.69
1:w:382:ARG:NH2	1:y:728:TYR:O	2.26	0.69
1:B:424:ASP:OD2	1:J:512:ARG:NH1	2.26	0.69
1:C:512:ARG:NH1	1:M:424:ASP:OD2	2.26	0.69
1:D:328:THR:OG1	1:E:325:ASN:ND2	2.26	0.69
1:E:382:ARG:NH2	1:F:728:TYR:O	2.26	0.69
1:K:274:ASP:OD2	1:K:352:SER:OG	2.07	0.69
1:W:731:ASN:OD1	1:W:732:HIS:N	2.24	0.69
1:f:328:THR:OG1	1:z:325:ASN:ND2	2.26	0.69
1:1:424:ASP:OD2	1:2:512:ARG:NH1	2.26	0.69
1:1:728:TYR:O	1:2:382:ARG:NH2	2.26	0.69
1:X:382:ARG:NH2	1:e:728:TYR:O	2.26	0.68
1:g:512:ARG:NH1	1:h:424:ASP:OD2	2.26	0.68
1:k:328:THR:OG1	1:w:325:ASN:ND2	2.26	0.68
1:A:728:TYR:O	1:G:382:ARG:NH2	2.26	0.68
1:G:424:ASP:OD2	1:I:512:ARG:NH1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:731:ASN:OD1	1:T:732:HIS:N	2.24	0.68
1:c:728:TYR:O	1:o:382:ARG:NH2	2.26	0.68
1:l:334:PHE:CZ	1:l:388:LEU:HD23	2.24	0.68
1:t:424:ASP:OD2	1:u:512:ARG:NH1	2.26	0.68
1:H:728:TYR:O	1:W:382:ARG:NH2	2.26	0.68
1:N:325:ASN:ND2	1:m:328:THR:OG1	2.27	0.68
1:O:334:PHE:CZ	1:O:388:LEU:HD23	2.24	0.68
1:i:512:ARG:NH1	1:k:424:ASP:OD2	2.26	0.68
1:5:728:TYR:O	1:6:382:ARG:NH2	2.26	0.68
1:A:512:ARG:NH1	1:I:424:ASP:OD2	2.26	0.68
1:D:424:ASP:OD2	1:N:512:ARG:NH1	2.26	0.68
1:K:424:ASP:OD2	1:a:512:ARG:NH1	2.26	0.68
1:T:328:THR:OG1	1:i:325:ASN:ND2	2.27	0.68
1:V:382:ARG:NH2	1:X:728:TYR:O	2.26	0.68
1:f:728:TYR:O	1:h:382:ARG:NH2	2.26	0.68
1:n:328:THR:OG1	1:r:325:ASN:ND2	2.26	0.68
1:o:728:TYR:O	1:p:382:ARG:NH2	2.26	0.68
1:E:512:ARG:NH1	1:F:424:ASP:OD2	2.27	0.68
1:G:334:PHE:CZ	1:G:388:LEU:HD23	2.24	0.68
1:M:328:THR:OG1	1:c:325:ASN:ND2	2.27	0.68
1:M:382:ARG:NH2	1:b:728:TYR:O	2.26	0.68
1:O:382:ARG:NH2	1:n:728:TYR:O	2.26	0.68
1:S:325:ASN:ND2	1:d:328:THR:OG1	2.26	0.68
1:t:334:PHE:CZ	1:t:388:LEU:HD23	2.24	0.68
1:t:382:ARG:NH2	1:v:728:TYR:O	2.26	0.68
1:u:424:ASP:OD2	1:v:512:ARG:NH1	2.26	0.68
1:D:512:ARG:NH1	1:P:424:ASP:OD2	2.27	0.68
1:O:512:ARG:NH1	1:n:424:ASP:OD2	2.27	0.68
1:c:512:ARG:NH1	1:p:424:ASP:OD2	2.26	0.68
1:d:424:ASP:OD2	1:l:512:ARG:NH1	2.27	0.68
1:e:325:ASN:ND2	1:h:328:THR:OG1	2.27	0.68
1:j:731:ASN:OD1	1:j:732:HIS:N	2.24	0.68
1:v:731:ASN:OD1	1:v:732:HIS:N	2.24	0.68
1:w:512:ARG:NH1	1:y:424:ASP:OD2	2.27	0.68
1:3:512:ARG:NH1	1:4:424:ASP:OD2	2.26	0.68
1:L:274:ASP:OD2	1:L:352:SER:OG	2.07	0.68
1:T:424:ASP:OD2	1:d:512:ARG:NH1	2.26	0.68
1:V:424:ASP:OD2	1:e:512:ARG:NH1	2.26	0.68
1:d:728:TYR:O	1:l:382:ARG:NH2	2.26	0.68
1:G:325:ASN:ND2	1:W:328:THR:OG1	2.26	0.68
1:H:325:ASN:ND2	1:I:328:THR:OG1	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:325:ASN:ND2	1:U:328:THR:OG1	2.26	0.68
1:m:424:ASP:OD2	1:n:512:ARG:NH1	2.26	0.68
1:r:728:TYR:O	1:s:382:ARG:NH2	2.26	0.68
1:u:328:THR:OG1	1:5:325:ASN:ND2	2.27	0.68
1:z:274:ASP:OD2	1:z:352:SER:OG	2.07	0.68
1:A:731:ASN:OD1	1:A:732:HIS:N	2.24	0.68
1:P:731:ASN:OD1	1:P:732:HIS:N	2.24	0.68
1:V:328:THR:OG1	1:W:325:ASN:ND2	2.27	0.68
1:m:325:ASN:ND2	1:s:328:THR:OG1	2.26	0.68
1:t:325:ASN:ND2	1:6:328:THR:OG1	2.26	0.68
1:z:328:THR:OG1	1:4:325:ASN:ND2	2.26	0.68
1:A:424:ASP:OD2	1:G:512:ARG:NH1	2.26	0.68
1:F:512:ARG:NH1	1:Q:424:ASP:OD2	2.26	0.68
1:H:424:ASP:OD2	1:W:512:ARG:NH1	2.27	0.68
1:J:325:ASN:ND2	1:a:328:THR:OG1	2.26	0.68
1:K:325:ASN:ND2	1:L:328:THR:OG1	2.26	0.68
1:O:328:THR:OG1	1:d:325:ASN:ND2	2.27	0.68
1:R:328:THR:OG1	1:V:325:ASN:ND2	2.27	0.68
1:S:728:TYR:O	1:U:382:ARG:NH2	2.26	0.68
1:p:325:ASN:ND2	1:q:328:THR:OG1	2.27	0.68
1:p:328:THR:OG1	1:6:325:ASN:ND2	2.27	0.68
1:1:274:ASP:OD2	1:1:352:SER:OG	2.07	0.68
1:A:325:ASN:ND2	1:E:328:THR:OG1	2.27	0.67
1:B:512:ARG:NH1	1:L:424:ASP:OD2	2.26	0.67
1:O:325:ASN:ND2	1:P:328:THR:OG1	2.26	0.67
1:j:325:ASN:ND2	1:x:328:THR:OG1	2.26	0.67
1:q:424:ASP:OD2	1:r:512:ARG:NH1	2.26	0.67
1:5:328:THR:OG1	1:8:325:ASN:ND2	2.26	0.67
1:5:424:ASP:OD2	1:6:512:ARG:NH1	2.27	0.67
1:M:218:ALA:H	1:N:400:ASN:HD21	1.42	0.67
1:R:424:ASP:OD2	1:S:512:ARG:NH1	2.26	0.67
1:l:328:THR:OG1	1:n:325:ASN:ND2	2.27	0.67
1:l:731:ASN:OD1	1:l:732:HIS:N	2.24	0.67
1:v:328:THR:OG1	1:1:325:ASN:ND2	2.26	0.67
1:x:424:ASP:OD2	1:y:512:ARG:NH1	2.26	0.67
1:2:325:ASN:ND2	1:3:328:THR:OG1	2.26	0.67
1:5:382:ARG:NH2	1:7:728:TYR:O	2.27	0.67
1:B:274:ASP:OD2	1:B:352:SER:OG	2.07	0.67
1:H:328:THR:OG1	1:Z:325:ASN:ND2	2.26	0.67
1:c:328:THR:OG1	1:s:325:ASN:ND2	2.26	0.67
1:h:218:ALA:H	1:i:400:ASN:HD21	1.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:325:ASN:ND2	1:y:328:THR:OG1	2.26	0.67
1:t:512:ARG:NH1	1:v:424:ASP:OD2	2.27	0.67
1:v:325:ASN:ND2	1:w:328:THR:OG1	2.27	0.67
1:z:424:ASP:OD2	1:1:512:ARG:NH1	2.26	0.67
1:3:325:ASN:ND2	1:8:328:THR:OG1	2.27	0.67
1:N:731:ASN:OD1	1:N:732:HIS:N	2.24	0.67
1:u:325:ASN:ND2	1:2:328:THR:OG1	2.27	0.67
1:z:512:ARG:NH1	1:2:424:ASP:OD2	2.26	0.67
1:1:223:HIS:O	1:1:238:THR:OG1	2.12	0.67
1:B:223:HIS:O	1:B:238:THR:OG1	2.12	0.67
1:C:334:PHE:CZ	1:C:388:LEU:HD23	2.24	0.67
1:F:328:THR:OG1	1:R:325:ASN:ND2	2.26	0.67
1:H:382:ARG:NH2	1:Y:728:TYR:O	2.28	0.67
1:I:325:ASN:ND2	1:J:328:THR:OG1	2.27	0.67
1:J:424:ASP:OD2	1:L:512:ARG:NH1	2.26	0.67
1:K:328:THR:OG1	1:7:325:ASN:ND2	2.27	0.67
1:O:731:ASN:OD1	1:O:732:HIS:N	2.24	0.67
1:U:325:ASN:ND2	1:e:328:THR:OG1	2.26	0.67
1:Y:325:ASN:ND2	1:4:328:THR:OG1	2.27	0.67
1:Z:328:THR:OG1	1:a:325:ASN:ND2	2.27	0.67
1:Z:512:ARG:NH1	1:3:424:ASP:OD2	2.27	0.67
1:a:424:ASP:OD2	1:8:512:ARG:NH1	2.27	0.67
1:a:728:TYR:O	1:8:382:ARG:NH2	2.26	0.67
1:g:325:ASN:ND2	1:1:328:THR:OG1	2.27	0.67
1:i:274:ASP:OD2	1:i:352:SER:OG	2.07	0.67
1:B:328:THR:OG1	1:C:325:ASN:ND2	2.27	0.67
1:N:274:ASP:OD2	1:N:352:SER:OG	2.07	0.67
1:Z:382:ARG:NH2	1:3:728:TYR:O	2.26	0.67
1:b:325:ASN:ND2	1:o:328:THR:OG1	2.27	0.67
1:q:512:ARG:NH1	1:s:424:ASP:OD2	2.26	0.67
1:F:325:ASN:ND2	1:G:328:THR:OG1	2.27	0.67
1:N:728:TYR:O	1:P:382:ARG:NH2	2.27	0.67
1:X:512:ARG:NH1	1:e:424:ASP:OD2	2.27	0.67
1:w:424:ASP:OD2	1:x:512:ARG:NH1	2.26	0.67
1:D:334:PHE:CZ	1:D:388:LEU:HD23	2.24	0.67
1:X:328:THR:OG1	1:f:325:ASN:ND2	2.27	0.67
1:g:334:PHE:CZ	1:g:388:LEU:HD23	2.24	0.67
1:j:400:ASN:HD21	1:l:218:ALA:H	1.42	0.67
1:6:424:ASP:OD2	1:7:512:ARG:NH1	2.26	0.67
1:E:424:ASP:OD2	1:Q:512:ARG:NH1	2.26	0.67
1:W:424:ASP:OD2	1:Y:512:ARG:NH1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:424:ASP:OD2	1:o:512:ARG:NH1	2.27	0.67
1:t:328:THR:OG1	1:y:325:ASN:ND2	2.27	0.67
1:A:328:THR:OG1	1:B:325:ASN:ND2	2.27	0.67
1:K:512:ARG:NH1	1:8:424:ASP:OD2	2.26	0.67
1:P:325:ASN:ND2	1:Q:328:THR:OG1	2.27	0.67
1:S:424:ASP:OD2	1:U:512:ARG:NH1	2.26	0.67
1:Z:424:ASP:OD2	1:4:512:ARG:NH1	2.26	0.66
1:j:728:TYR:O	1:k:382:ARG:NH2	2.27	0.66
1:k:334:PHE:CZ	1:k:388:LEU:HD23	2.24	0.66
1:r:328:THR:OG1	1:x:325:ASN:ND2	2.27	0.66
1:r:424:ASP:OD2	1:s:512:ARG:NH1	2.26	0.66
1:g:328:THR:OG1	1:k:325:ASN:ND2	2.27	0.66
1:k:274:ASP:OD2	1:k:352:SER:OG	2.07	0.66
1:C:328:THR:OG1	1:D:325:ASN:ND2	2.27	0.66
1:Q:325:ASN:ND2	1:S:328:THR:OG1	2.27	0.66
1:U:223:HIS:O	1:U:238:THR:OG1	2.12	0.66
1:h:325:ASN:ND2	1:i:328:THR:OG1	2.29	0.66
1:M:325:ASN:ND2	1:N:328:THR:OG1	2.29	0.66
1:f:512:ARG:NH1	1:g:424:ASP:OD2	2.26	0.66
1:s:223:HIS:O	1:s:238:THR:OG1	2.12	0.66
1:7:223:HIS:O	1:7:238:THR:OG1	2.12	0.66
1:C:424:ASP:OD2	1:b:512:ARG:NH1	2.26	0.66
1:k:223:HIS:O	1:k:238:THR:OG1	2.12	0.66
1:F:400:ASN:HD21	1:R:218:ALA:H	1.44	0.66
1:X:218:ALA:H	1:Y:400:ASN:HD21	1.42	0.66
1:n:223:HIS:O	1:n:238:THR:OG1	2.12	0.66
1:q:218:ALA:H	1:y:400:ASN:HD21	1.44	0.66
1:q:223:HIS:O	1:q:238:THR:OG1	2.12	0.66
1:R:223:HIS:O	1:R:238:THR:OG1	2.12	0.66
1:4:223:HIS:O	1:4:238:THR:OG1	2.12	0.66
1:D:223:HIS:O	1:D:238:THR:OG1	2.12	0.65
1:K:223:HIS:O	1:K:238:THR:OG1	2.12	0.65
1:S:223:HIS:O	1:S:238:THR:OG1	2.12	0.65
1:f:400:ASN:HD21	1:z:218:ALA:H	1.44	0.65
1:o:218:ALA:H	1:7:400:ASN:HD21	1.42	0.65
1:t:218:ALA:H	1:6:400:ASN:HD21	1.44	0.65
1:G:218:ALA:H	1:W:400:ASN:HD21	1.44	0.65
1:O:332:GLN:HE21	1:O:647:LYS:HD3	1.62	0.65
1:R:512:ARG:NH1	1:U:424:ASP:OD2	2.26	0.65
1:d:223:HIS:O	1:d:238:THR:OG1	2.12	0.65
1:n:332:GLN:HE21	1:n:647:LYS:HD3	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:223:HIS:O	1:r:238:THR:OG1	2.12	0.65
1:L:218:ALA:H	1:b:400:ASN:HD21	1.44	0.65
1:Q:332:GLN:HE21	1:Q:647:LYS:HD3	1.62	0.65
1:V:332:GLN:HE21	1:V:647:LYS:HD3	1.62	0.65
1:d:332:GLN:HE21	1:d:647:LYS:HD3	1.62	0.65
1:l:223:HIS:O	1:l:238:THR:OG1	2.12	0.65
1:l:332:GLN:HE21	1:l:647:LYS:HD3	1.62	0.65
1:p:332:GLN:HE21	1:p:647:LYS:HD3	1.62	0.65
1:x:332:GLN:HE21	1:x:647:LYS:HD3	1.62	0.65
1:z:400:ASN:HD21	1:4:218:ALA:H	1.45	0.65
1:5:332:GLN:HE21	1:5:647:LYS:HD3	1.62	0.65
1:H:332:GLN:HE21	1:H:647:LYS:HD3	1.62	0.65
1:K:218:ALA:H	1:L:400:ASN:HD21	1.45	0.65
1:P:218:ALA:H	1:Q:400:ASN:HD21	1.45	0.65
1:T:218:ALA:H	1:U:400:ASN:HD21	1.45	0.65
1:Z:400:ASN:HD21	1:a:218:ALA:H	1.45	0.65
1:3:218:ALA:H	1:8:400:ASN:HD21	1.45	0.65
1:D:406:TYR:OH	1:D:639:HIS:O	2.15	0.65
1:I:332:GLN:HE21	1:I:647:LYS:HD3	1.62	0.65
1:O:223:HIS:O	1:O:238:THR:OG1	2.12	0.65
1:X:325:ASN:ND2	1:Y:328:THR:OG1	2.29	0.65
1:Y:274:ASP:OD2	1:Y:352:SER:OG	2.07	0.65
1:b:218:ALA:H	1:o:400:ASN:HD21	1.45	0.65
1:m:218:ALA:H	1:s:400:ASN:HD21	1.45	0.65
1:v:400:ASN:HD21	1:1:218:ALA:H	1.44	0.65
1:7:274:ASP:OD2	1:7:352:SER:OG	2.07	0.65
1:8:406:TYR:OH	1:8:639:HIS:O	2.15	0.65
1:D:332:GLN:HE21	1:D:647:LYS:HD3	1.62	0.65
1:G:290:LEU:HD21	1:G:297:LEU:HD22	1.79	0.65
1:Z:406:TYR:OH	1:Z:639:HIS:O	2.15	0.65
1:k:332:GLN:HE21	1:k:647:LYS:HD3	1.62	0.65
1:k:406:TYR:OH	1:k:639:HIS:O	2.15	0.65
1:t:290:LEU:HD21	1:t:297:LEU:HD22	1.79	0.65
1:A:400:ASN:HD21	1:B:218:ALA:H	1.45	0.65
1:E:223:HIS:O	1:E:238:THR:OG1	2.12	0.65
1:H:218:ALA:H	1:I:400:ASN:HD21	1.45	0.65
1:I:223:HIS:O	1:I:238:THR:OG1	2.12	0.65
1:W:290:LEU:HD21	1:W:297:LEU:HD22	1.79	0.65
1:W:728:TYR:O	1:Y:382:ARG:NH2	2.30	0.65
1:b:406:TYR:OH	1:b:639:HIS:O	2.15	0.65
1:n:406:TYR:OH	1:n:639:HIS:O	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:406:TYR:OH	1:o:639:HIS:O	2.15	0.65
1:r:400:ASN:HD21	1:x:218:ALA:H	1.44	0.65
1:t:406:TYR:OH	1:t:639:HIS:O	2.15	0.65
1:u:223:HIS:O	1:u:238:THR:OG1	2.12	0.65
1:u:332:GLN:HE21	1:u:647:LYS:HD3	1.62	0.65
1:6:290:LEU:HD21	1:6:297:LEU:HD22	1.79	0.65
1:G:406:TYR:OH	1:G:639:HIS:O	2.15	0.65
1:J:332:GLN:HE21	1:J:647:LYS:HD3	1.62	0.65
1:Q:218:ALA:H	1:S:400:ASN:HD21	1.44	0.65
1:X:400:ASN:HD21	1:f:218:ALA:H	1.45	0.65
1:X:406:TYR:OH	1:X:639:HIS:O	2.15	0.65
1:Y:406:TYR:OH	1:Y:639:HIS:O	2.15	0.65
1:c:400:ASN:HD21	1:s:218:ALA:H	1.44	0.65
1:f:406:TYR:OH	1:f:639:HIS:O	2.15	0.65
1:o:325:ASN:ND2	1:7:328:THR:OG1	2.29	0.65
1:u:400:ASN:HD21	1:5:218:ALA:H	1.45	0.65
1:2:332:GLN:HE21	1:2:647:LYS:HD3	1.62	0.65
1:E:332:GLN:HE21	1:E:647:LYS:HD3	1.62	0.65
1:O:290:LEU:HD21	1:O:297:LEU:HD22	1.79	0.65
1:S:290:LEU:HD21	1:S:297:LEU:HD22	1.79	0.65
1:U:218:ALA:H	1:e:400:ASN:HD21	1.44	0.65
1:U:406:TYR:OH	1:U:639:HIS:O	2.15	0.65
1:d:406:TYR:OH	1:d:639:HIS:O	2.15	0.65
1:g:218:ALA:H	1:1:400:ASN:HD21	1.45	0.65
1:j:328:THR:OG1	1:l:325:ASN:ND2	2.30	0.65
1:s:406:TYR:OH	1:s:639:HIS:O	2.15	0.65
1:v:218:ALA:H	1:w:400:ASN:HD21	1.45	0.65
1:w:223:HIS:O	1:w:238:THR:OG1	2.12	0.65
1:2:406:TYR:OH	1:2:639:HIS:O	2.15	0.65
1:6:406:TYR:OH	1:6:639:HIS:O	2.15	0.65
1:6:728:TYR:O	1:7:382:ARG:NH2	2.30	0.65
1:7:406:TYR:OH	1:7:639:HIS:O	2.15	0.65
1:A:218:ALA:H	1:E:400:ASN:HD21	1.45	0.65
1:B:400:ASN:HD21	1:C:218:ALA:H	1.45	0.65
1:J:290:LEU:HD21	1:J:297:LEU:HD22	1.79	0.65
1:J:406:TYR:OH	1:J:639:HIS:O	2.15	0.65
1:W:406:TYR:OH	1:W:639:HIS:O	2.15	0.65
1:l:290:LEU:HD21	1:l:297:LEU:HD22	1.79	0.65
1:n:290:LEU:HD21	1:n:297:LEU:HD22	1.79	0.65
1:r:290:LEU:HD21	1:r:297:LEU:HD22	1.79	0.65
1:2:290:LEU:HD21	1:2:297:LEU:HD22	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:290:LEU:HD21	1:5:297:LEU:HD22	1.79	0.65
1:6:332:GLN:HE21	1:6:647:LYS:HD3	1.62	0.65
1:B:290:LEU:HD21	1:B:297:LEU:HD22	1.79	0.64
1:D:400:ASN:HD21	1:E:218:ALA:H	1.44	0.64
1:F:332:GLN:HE21	1:F:647:LYS:HD3	1.62	0.64
1:H:290:LEU:HD21	1:H:297:LEU:HD22	1.79	0.64
1:I:290:LEU:HD21	1:I:297:LEU:HD22	1.79	0.64
1:P:332:GLN:HE21	1:P:647:LYS:HD3	1.62	0.64
1:Z:332:GLN:HE21	1:Z:647:LYS:HD3	1.62	0.64
1:d:290:LEU:HD21	1:d:297:LEU:HD22	1.79	0.64
1:i:382:ARG:NH2	1:k:728:TYR:O	2.30	0.64
1:v:332:GLN:HE21	1:v:647:LYS:HD3	1.62	0.64
1:w:332:GLN:HE21	1:w:647:LYS:HD3	1.62	0.64
1:3:223:HIS:O	1:3:238:THR:OG1	2.12	0.64
1:R:400:ASN:HD21	1:V:218:ALA:H	1.45	0.64
1:W:332:GLN:HE21	1:W:647:LYS:HD3	1.62	0.64
1:j:290:LEU:HD21	1:j:297:LEU:HD22	1.79	0.64
1:j:406:TYR:OH	1:j:639:HIS:O	2.15	0.64
1:k:400:ASN:HD21	1:w:218:ALA:H	1.45	0.64
1:o:332:GLN:HE21	1:o:647:LYS:HD3	1.62	0.64
1:p:218:ALA:H	1:q:400:ASN:HD21	1.45	0.64
1:q:332:GLN:HE21	1:q:647:LYS:HD3	1.62	0.64
1:u:290:LEU:HD21	1:u:297:LEU:HD22	1.79	0.64
1:u:406:TYR:OH	1:u:639:HIS:O	2.15	0.64
1:y:332:GLN:HE21	1:y:647:LYS:HD3	1.62	0.64
1:1:290:LEU:HD21	1:1:297:LEU:HD22	1.79	0.64
1:3:332:GLN:HE21	1:3:647:LYS:HD3	1.62	0.64
1:6:223:HIS:O	1:6:238:THR:OG1	2.12	0.64
1:8:332:GLN:HE21	1:8:647:LYS:HD3	1.62	0.64
1:A:332:GLN:HE21	1:A:647:LYS:HD3	1.62	0.64
1:B:332:GLN:HE21	1:B:647:LYS:HD3	1.62	0.64
1:I:406:TYR:OH	1:I:639:HIS:O	2.15	0.64
1:P:290:LEU:HD21	1:P:297:LEU:HD22	1.79	0.64
1:R:332:GLN:HE21	1:R:647:LYS:HD3	1.62	0.64
1:W:223:HIS:O	1:W:238:THR:OG1	2.12	0.64
1:a:223:HIS:O	1:a:238:THR:OG1	2.12	0.64
1:i:332:GLN:HE21	1:i:647:LYS:HD3	1.62	0.64
1:j:332:GLN:HE21	1:j:647:LYS:HD3	1.62	0.64
1:l:406:TYR:OH	1:l:639:HIS:O	2.15	0.64
1:t:223:HIS:O	1:t:238:THR:OG1	2.12	0.64
1:D:728:TYR:O	1:N:382:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:223:HIS:O	1:L:238:THR:OG1	2.12	0.64
1:N:332:GLN:HE21	1:N:647:LYS:HD3	1.62	0.64
1:O:406:TYR:OH	1:O:639:HIS:O	2.15	0.64
1:P:406:TYR:OH	1:P:639:HIS:O	2.15	0.64
1:X:332:GLN:HE21	1:X:647:LYS:HD3	1.62	0.64
1:Z:290:LEU:HD21	1:Z:297:LEU:HD22	1.79	0.64
1:a:332:GLN:HE21	1:a:647:LYS:HD3	1.62	0.64
1:c:406:TYR:OH	1:c:639:HIS:O	2.15	0.64
1:e:406:TYR:OH	1:e:639:HIS:O	2.15	0.64
1:t:400:ASN:HD21	1:y:218:ALA:H	1.45	0.64
1:z:290:LEU:HD21	1:z:297:LEU:HD22	1.79	0.64
1:z:332:GLN:HE21	1:z:647:LYS:HD3	1.62	0.64
1:C:332:GLN:HE21	1:C:647:LYS:HD3	1.62	0.64
1:D:290:LEU:HD21	1:D:297:LEU:HD22	1.79	0.64
1:E:290:LEU:HD21	1:E:297:LEU:HD22	1.79	0.64
1:H:400:ASN:HD21	1:Z:218:ALA:H	1.45	0.64
1:J:223:HIS:O	1:J:238:THR:OG1	2.12	0.64
1:h:332:GLN:HE21	1:h:647:LYS:HD3	1.62	0.64
1:m:223:HIS:O	1:m:238:THR:OG1	2.12	0.64
1:t:332:GLN:HE21	1:t:647:LYS:HD3	1.62	0.64
1:v:223:HIS:O	1:v:238:THR:OG1	2.12	0.64
1:8:223:HIS:O	1:8:238:THR:OG1	2.12	0.64
1:8:290:LEU:HD21	1:8:297:LEU:HD22	1.79	0.64
1:F:218:ALA:H	1:G:400:ASN:HD21	1.45	0.64
1:G:223:HIS:O	1:G:238:THR:OG1	2.12	0.64
1:L:290:LEU:HD21	1:L:297:LEU:HD22	1.79	0.64
1:L:332:GLN:HE21	1:L:647:LYS:HD3	1.62	0.64
1:M:290:LEU:HD21	1:M:297:LEU:HD22	1.79	0.64
1:M:512:ARG:NH1	1:b:424:ASP:OD2	2.27	0.64
1:V:512:ARG:NH1	1:X:424:ASP:OD2	2.26	0.64
1:g:332:GLN:HE21	1:g:647:LYS:HD3	1.62	0.64
1:h:290:LEU:HD21	1:h:297:LEU:HD22	1.79	0.64
1:k:290:LEU:HD21	1:k:297:LEU:HD22	1.79	0.64
1:o:290:LEU:HD21	1:o:297:LEU:HD22	1.79	0.64
1:w:290:LEU:HD21	1:w:297:LEU:HD22	1.79	0.64
1:1:332:GLN:HE21	1:1:647:LYS:HD3	1.62	0.64
1:5:223:HIS:O	1:5:238:THR:OG1	2.12	0.64
1:5:400:ASN:HD21	1:8:218:ALA:H	1.45	0.64
1:7:332:GLN:HE21	1:7:647:LYS:HD3	1.62	0.64
1:G:332:GLN:HE21	1:G:647:LYS:HD3	1.62	0.64
1:M:332:GLN:HE21	1:M:647:LYS:HD3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:290:LEU:HD21	1:Q:297:LEU:HD22	1.79	0.64
1:T:223:HIS:O	1:T:238:THR:OG1	2.12	0.64
1:U:290:LEU:HD21	1:U:297:LEU:HD22	1.79	0.64
1:X:290:LEU:HD21	1:X:297:LEU:HD22	1.79	0.64
1:Z:223:HIS:O	1:Z:238:THR:OG1	2.12	0.64
1:a:293:ASN:ND2	1:3:293:ASN:OD1	2.31	0.64
1:a:293:ASN:OD1	1:3:293:ASN:ND2	2.31	0.64
1:i:290:LEU:HD21	1:i:297:LEU:HD22	1.79	0.64
1:s:290:LEU:HD21	1:s:297:LEU:HD22	1.79	0.64
1:z:223:HIS:O	1:z:238:THR:OG1	2.12	0.64
1:A:223:HIS:O	1:A:238:THR:OG1	2.12	0.64
1:H:223:HIS:O	1:H:238:THR:OG1	2.12	0.64
1:b:290:LEU:HD21	1:b:297:LEU:HD22	1.79	0.64
1:g:293:ASN:OD1	1:z:293:ASN:ND2	2.31	0.64
1:g:406:TYR:OH	1:g:639:HIS:O	2.15	0.64
1:x:290:LEU:HD21	1:x:297:LEU:HD22	1.79	0.64
1:2:223:HIS:O	1:2:238:THR:OG1	2.12	0.64
1:C:406:TYR:OH	1:C:639:HIS:O	2.15	0.64
1:D:293:ASN:ND2	1:M:293:ASN:OD1	2.31	0.64
1:N:290:LEU:HD21	1:N:297:LEU:HD22	1.79	0.64
1:O:218:ALA:H	1:P:400:ASN:HD21	1.45	0.64
1:Y:290:LEU:HD21	1:Y:297:LEU:HD22	1.79	0.64
1:Y:332:GLN:HE21	1:Y:647:LYS:HD3	1.62	0.64
1:a:290:LEU:HD21	1:a:297:LEU:HD22	1.79	0.64
1:e:293:ASN:OD1	1:f:293:ASN:ND2	2.31	0.64
1:f:424:ASP:OD2	1:h:512:ARG:NH1	2.27	0.64
1:3:290:LEU:HD21	1:3:297:LEU:HD22	1.79	0.64
1:7:290:LEU:HD21	1:7:297:LEU:HD22	1.79	0.64
1:C:293:ASN:OD1	1:L:293:ASN:ND2	2.31	0.64
1:H:406:TYR:OH	1:H:639:HIS:O	2.15	0.64
1:T:290:LEU:HD21	1:T:297:LEU:HD22	1.79	0.64
1:T:332:GLN:HE21	1:T:647:LYS:HD3	1.62	0.64
1:b:293:ASN:ND2	1:c:293:ASN:OD1	2.31	0.64
1:b:332:GLN:HE21	1:b:647:LYS:HD3	1.62	0.64
1:f:290:LEU:HD21	1:f:297:LEU:HD22	1.79	0.64
1:h:293:ASN:OD1	1:k:293:ASN:ND2	2.31	0.64
1:o:424:ASP:OD2	1:p:512:ARG:NH1	2.26	0.64
1:3:406:TYR:OH	1:3:639:HIS:O	2.15	0.64
1:C:290:LEU:HD21	1:C:297:LEU:HD22	1.79	0.63
1:J:218:ALA:H	1:a:400:ASN:HD21	1.44	0.63
1:V:290:LEU:HD21	1:V:297:LEU:HD22	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:406:TYR:OH	1:a:639:HIS:O	2.15	0.63
1:c:332:GLN:HE21	1:c:647:LYS:HD3	1.62	0.63
1:m:332:GLN:HE21	1:m:647:LYS:HD3	1.62	0.63
1:p:223:HIS:O	1:p:238:THR:OG1	2.12	0.63
1:p:290:LEU:HD21	1:p:297:LEU:HD22	1.79	0.63
1:r:332:GLN:HE21	1:r:647:LYS:HD3	1.62	0.63
1:2:218:ALA:H	1:3:400:ASN:HD21	1.44	0.63
1:5:406:TYR:OH	1:5:639:HIS:O	2.15	0.63
1:d:293:ASN:ND2	1:n:293:ASN:OD1	2.31	0.63
1:g:290:LEU:HD21	1:g:297:LEU:HD22	1.79	0.63
1:m:290:LEU:HD21	1:m:297:LEU:HD22	1.79	0.63
1:F:223:HIS:O	1:F:238:THR:OG1	2.12	0.63
1:J:293:ASN:ND2	1:K:293:ASN:OD1	2.31	0.63
1:K:332:GLN:HE21	1:K:647:LYS:HD3	1.62	0.63
1:U:293:ASN:ND2	1:V:293:ASN:OD1	2.31	0.63
1:V:223:HIS:O	1:V:238:THR:OG1	2.12	0.63
1:d:293:ASN:OD1	1:n:293:ASN:ND2	2.31	0.63
1:e:290:LEU:HD21	1:e:297:LEU:HD22	1.79	0.63
1:e:332:GLN:HE21	1:e:647:LYS:HD3	1.62	0.63
1:f:332:GLN:HE21	1:f:647:LYS:HD3	1.62	0.63
1:i:293:ASN:ND2	1:l:293:ASN:OD1	2.32	0.63
1:y:290:LEU:HD21	1:y:297:LEU:HD22	1.79	0.63
1:4:332:GLN:HE21	1:4:647:LYS:HD3	1.62	0.63
1:B:293:ASN:ND2	1:I:293:ASN:OD1	2.31	0.63
1:F:290:LEU:HD21	1:F:297:LEU:HD22	1.79	0.63
1:N:293:ASN:ND2	1:O:293:ASN:OD1	2.32	0.63
1:S:293:ASN:OD1	1:T:293:ASN:ND2	2.31	0.63
1:S:332:GLN:HE21	1:S:647:LYS:HD3	1.62	0.63
1:W:293:ASN:OD1	1:X:293:ASN:ND2	2.31	0.63
1:m:293:ASN:ND2	1:r:293:ASN:OD1	2.31	0.63
1:p:293:ASN:OD1	1:s:293:ASN:ND2	2.31	0.63
1:t:293:ASN:OD1	1:5:293:ASN:ND2	2.31	0.63
1:v:290:LEU:HD21	1:v:297:LEU:HD22	1.79	0.63
1:2:293:ASN:ND2	1:4:293:ASN:OD1	2.31	0.63
1:A:290:LEU:HD21	1:A:297:LEU:HD22	1.79	0.63
1:E:293:ASN:ND2	1:P:293:ASN:OD1	2.31	0.63
1:G:293:ASN:OD1	1:H:293:ASN:ND2	2.31	0.63
1:O:400:ASN:HD21	1:d:218:ALA:H	1.45	0.63
1:c:290:LEU:HD21	1:c:297:LEU:HD22	1.79	0.63
1:i:728:TYR:O	1:j:382:ARG:NH2	2.31	0.63
1:l:400:ASN:HD21	1:n:218:ALA:H	1.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:293:ASN:OD1	1:6:293:ASN:ND2	2.31	0.63
1:o:293:ASN:ND2	1:6:293:ASN:OD1	2.31	0.63
1:u:293:ASN:OD1	1:1:293:ASN:ND2	2.31	0.63
1:y:223:HIS:O	1:y:238:THR:OG1	2.12	0.63
1:2:293:ASN:OD1	1:4:293:ASN:ND2	2.31	0.63
1:J:293:ASN:OD1	1:K:293:ASN:ND2	2.31	0.63
1:M:400:ASN:HD21	1:c:218:ALA:H	1.45	0.63
1:W:293:ASN:ND2	1:X:293:ASN:OD1	2.31	0.63
1:e:218:ALA:H	1:h:400:ASN:HD21	1.45	0.63
1:i:406:TYR:OH	1:i:639:HIS:O	2.15	0.63
1:v:293:ASN:ND2	1:y:293:ASN:OD1	2.31	0.63
1:A:293:ASN:ND2	1:F:293:ASN:OD1	2.31	0.63
1:K:290:LEU:HD21	1:K:297:LEU:HD22	1.79	0.63
1:U:293:ASN:OD1	1:V:293:ASN:ND2	2.31	0.63
1:U:332:GLN:HE21	1:U:647:LYS:HD3	1.62	0.63
1:n:400:ASN:HD21	1:r:218:ALA:H	1.44	0.63
1:p:293:ASN:ND2	1:s:293:ASN:OD1	2.31	0.63
1:q:293:ASN:OD1	1:x:293:ASN:ND2	2.31	0.63
1:v:293:ASN:OD1	1:y:293:ASN:ND2	2.31	0.63
1:7:293:ASN:OD1	1:8:293:ASN:ND2	2.32	0.63
1:N:406:TYR:OH	1:N:639:HIS:O	2.15	0.63
1:Y:293:ASN:OD1	1:Z:293:ASN:ND2	2.32	0.63
1:j:218:ALA:H	1:x:400:ASN:HD21	1.47	0.63
1:s:332:GLN:HE21	1:s:647:LYS:HD3	1.62	0.63
1:A:293:ASN:OD1	1:F:293:ASN:ND2	2.31	0.63
1:B:293:ASN:OD1	1:I:293:ASN:ND2	2.31	0.63
1:L:406:TYR:OH	1:L:639:HIS:O	2.15	0.63
1:Q:293:ASN:ND2	1:R:293:ASN:OD1	2.31	0.63
1:4:290:LEU:HD21	1:4:297:LEU:HD22	1.79	0.63
1:T:406:TYR:OH	1:T:639:HIS:O	2.15	0.62
1:Y:218:ALA:H	1:4:400:ASN:HD21	1.46	0.62
1:e:293:ASN:ND2	1:f:293:ASN:OD1	2.31	0.62
1:u:293:ASN:ND2	1:1:293:ASN:OD1	2.31	0.62
1:z:397:ARG:H	1:z:400:ASN:HD22	1.47	0.62
1:1:406:TYR:OH	1:1:639:HIS:O	2.15	0.62
1:E:293:ASN:OD1	1:P:293:ASN:ND2	2.31	0.62
1:E:406:TYR:OH	1:E:639:HIS:O	2.15	0.62
1:L:397:ARG:H	1:L:400:ASN:HD22	1.48	0.62
1:M:524:THR:HB	1:M:536:GLN:HE21	1.65	0.62
1:Y:293:ASN:ND2	1:Z:293:ASN:OD1	2.32	0.62
1:b:293:ASN:OD1	1:c:293:ASN:ND2	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:524:THR:HB	1:h:536:GLN:HE21	1.65	0.62
1:t:293:ASN:ND2	1:5:293:ASN:OD1	2.31	0.62
1:z:406:TYR:OH	1:z:639:HIS:O	2.15	0.62
1:7:293:ASN:ND2	1:8:293:ASN:OD1	2.32	0.62
1:A:524:THR:HB	1:A:536:GLN:HE21	1.64	0.62
1:D:397:ARG:H	1:D:400:ASN:HD22	1.48	0.62
1:G:293:ASN:ND2	1:H:293:ASN:OD1	2.31	0.62
1:I:218:ALA:H	1:J:400:ASN:HD21	1.44	0.62
1:S:218:ALA:H	1:d:400:ASN:HD21	1.45	0.62
1:m:406:TYR:OH	1:m:639:HIS:O	2.15	0.62
1:q:406:TYR:OH	1:q:639:HIS:O	2.15	0.62
1:v:524:THR:HB	1:v:536:GLN:HE21	1.65	0.62
1:w:406:TYR:OH	1:w:639:HIS:O	2.15	0.62
1:B:406:TYR:OH	1:B:639:HIS:O	2.15	0.62
1:C:400:ASN:HD21	1:D:218:ALA:H	1.45	0.62
1:C:524:THR:HB	1:C:536:GLN:HE21	1.65	0.62
1:D:293:ASN:OD1	1:M:293:ASN:ND2	2.31	0.62
1:E:397:ARG:H	1:E:400:ASN:HD22	1.47	0.62
1:K:400:ASN:HD21	1:7:218:ALA:H	1.46	0.62
1:Y:397:ARG:H	1:Y:400:ASN:HD22	1.48	0.62
1:g:524:THR:HB	1:g:536:GLN:HE21	1.65	0.62
1:k:397:ARG:H	1:k:400:ASN:HD22	1.48	0.62
1:o:397:ARG:H	1:o:400:ASN:HD22	1.48	0.62
1:p:406:TYR:OH	1:p:639:HIS:O	2.15	0.62
1:7:397:ARG:H	1:7:400:ASN:HD22	1.48	0.62
1:N:223:HIS:O	1:N:238:THR:OG1	2.12	0.62
1:N:397:ARG:H	1:N:400:ASN:HD22	1.48	0.62
1:X:397:ARG:H	1:X:400:ASN:HD22	1.48	0.62
1:e:524:THR:HB	1:e:536:GLN:HE21	1.65	0.62
1:o:524:THR:HB	1:o:536:GLN:HE21	1.65	0.62
1:q:293:ASN:ND2	1:x:293:ASN:OD1	2.31	0.62
1:s:397:ARG:H	1:s:400:ASN:HD22	1.48	0.62
1:u:218:ALA:H	1:2:400:ASN:HD21	1.44	0.62
1:v:406:TYR:OH	1:v:639:HIS:O	2.15	0.62
1:w:397:ARG:H	1:w:400:ASN:HD22	1.48	0.62
1:J:524:THR:HB	1:J:536:GLN:HE21	1.65	0.62
1:P:524:THR:HB	1:P:536:GLN:HE21	1.65	0.62
1:Q:293:ASN:OD1	1:R:293:ASN:ND2	2.31	0.62
1:R:290:LEU:HD21	1:R:297:LEU:HD22	1.79	0.62
1:R:406:TYR:OH	1:R:639:HIS:O	2.15	0.62
1:U:397:ARG:H	1:U:400:ASN:HD22	1.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:406:TYR:OH	1:V:639:HIS:O	2.15	0.62
1:X:524:THR:HB	1:X:536:GLN:HE21	1.65	0.62
1:c:524:THR:HB	1:c:536:GLN:HE21	1.65	0.62
1:h:293:ASN:ND2	1:k:293:ASN:OD1	2.31	0.62
1:i:223:HIS:O	1:i:238:THR:OG1	2.12	0.62
1:i:397:ARG:H	1:i:400:ASN:HD22	1.48	0.62
1:m:524:THR:HB	1:m:536:GLN:HE21	1.65	0.62
1:N:524:THR:HB	1:N:536:GLN:HE21	1.65	0.62
1:T:524:THR:HB	1:T:536:GLN:HE21	1.65	0.62
1:e:397:ARG:H	1:e:400:ASN:HD22	1.47	0.62
1:g:400:ASN:HD21	1:k:218:ALA:H	1.45	0.62
1:h:223:HIS:O	1:h:238:THR:OG1	2.12	0.62
1:j:524:THR:HB	1:j:536:GLN:HE21	1.65	0.62
1:l:397:ARG:H	1:l:400:ASN:HD22	1.47	0.62
1:p:400:ASN:HD21	1:6:218:ALA:H	1.45	0.62
1:r:406:TYR:OH	1:r:639:HIS:O	2.15	0.62
1:u:397:ARG:H	1:u:400:ASN:HD22	1.48	0.62
1:2:524:THR:HB	1:2:536:GLN:HE21	1.65	0.62
1:A:406:TYR:OH	1:A:639:HIS:O	2.15	0.62
1:I:397:ARG:H	1:I:400:ASN:HD22	1.48	0.62
1:K:406:TYR:OH	1:K:639:HIS:O	2.15	0.62
1:Q:406:TYR:OH	1:Q:639:HIS:O	2.15	0.62
1:R:524:THR:HB	1:R:536:GLN:HE21	1.65	0.62
1:i:524:THR:HB	1:i:536:GLN:HE21	1.65	0.62
1:q:524:THR:HB	1:q:536:GLN:HE21	1.65	0.62
1:x:406:TYR:OH	1:x:639:HIS:O	2.15	0.62
1:4:397:ARG:H	1:4:400:ASN:HD22	1.48	0.62
1:4:406:TYR:OH	1:4:639:HIS:O	2.15	0.62
1:D:524:THR:HB	1:D:536:GLN:HE21	1.65	0.62
1:M:223:HIS:O	1:M:238:THR:OG1	2.12	0.62
1:N:218:ALA:H	1:m:400:ASN:HD21	1.46	0.62
1:O:397:ARG:H	1:O:400:ASN:HD22	1.48	0.62
1:S:293:ASN:ND2	1:T:293:ASN:OD1	2.31	0.62
1:S:406:TYR:OH	1:S:639:HIS:O	2.15	0.62
1:c:397:ARG:H	1:c:400:ASN:HD22	1.47	0.62
1:f:524:THR:HB	1:f:536:GLN:HE21	1.65	0.62
1:g:293:ASN:ND2	1:z:293:ASN:OD1	2.31	0.62
1:m:293:ASN:OD1	1:r:293:ASN:ND2	2.31	0.62
1:p:524:THR:HB	1:p:536:GLN:HE21	1.65	0.62
1:q:290:LEU:HD21	1:q:297:LEU:HD22	1.79	0.62
1:8:397:ARG:H	1:8:400:ASN:HD22	1.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:691:ARG:NH1	1:A:730:THR:OG1	2.33	0.62
1:C:691:ARG:NH1	1:C:730:THR:OG1	2.33	0.62
1:K:397:ARG:H	1:K:400:ASN:HD22	1.48	0.62
1:V:400:ASN:HD21	1:W:218:ALA:H	1.45	0.62
1:X:691:ARG:NH1	1:X:730:THR:OG1	2.33	0.62
1:Z:397:ARG:H	1:Z:400:ASN:HD22	1.48	0.62
1:b:524:THR:HB	1:b:536:GLN:HE21	1.65	0.62
1:c:691:ARG:NH1	1:c:730:THR:OG1	2.33	0.62
1:g:691:ARG:NH1	1:g:730:THR:OG1	2.33	0.62
1:i:293:ASN:OD1	1:l:293:ASN:ND2	2.32	0.62
1:k:524:THR:HB	1:k:536:GLN:HE21	1.65	0.62
1:r:524:THR:HB	1:r:536:GLN:HE21	1.65	0.62
1:v:691:ARG:NH1	1:v:730:THR:OG1	2.33	0.62
1:6:397:ARG:H	1:6:400:ASN:HD22	1.48	0.62
1:8:524:THR:HB	1:8:536:GLN:HE21	1.64	0.62
1:J:397:ARG:H	1:J:400:ASN:HD22	1.48	0.61
1:K:691:ARG:NH1	1:K:730:THR:OG1	2.33	0.61
1:S:524:THR:HB	1:S:536:GLN:HE21	1.65	0.61
1:V:524:THR:HB	1:V:536:GLN:HE21	1.65	0.61
1:W:397:ARG:H	1:W:400:ASN:HD22	1.48	0.61
1:a:691:ARG:NH1	1:a:730:THR:OG1	2.33	0.61
1:b:476:CYS:SG	1:b:574:PHE:HB2	2.40	0.61
1:e:691:ARG:NH1	1:e:730:THR:OG1	2.33	0.61
1:f:476:CYS:SG	1:f:574:PHE:HB2	2.40	0.61
1:m:397:ARG:H	1:m:400:ASN:HD22	1.48	0.61
1:o:691:ARG:NH1	1:o:730:THR:OG1	2.33	0.61
1:z:524:THR:HB	1:z:536:GLN:HE21	1.65	0.61
1:2:397:ARG:H	1:2:400:ASN:HD22	1.48	0.61
1:4:691:ARG:NH1	1:4:730:THR:OG1	2.33	0.61
1:5:691:ARG:NH1	1:5:730:THR:OG1	2.33	0.61
1:7:476:CYS:SG	1:7:574:PHE:HB2	2.40	0.61
1:C:293:ASN:ND2	1:L:293:ASN:OD1	2.31	0.61
1:H:691:ARG:NH1	1:H:730:THR:OG1	2.33	0.61
1:T:397:ARG:H	1:T:400:ASN:HD22	1.48	0.61
1:Y:476:CYS:SG	1:Y:574:PHE:HB2	2.41	0.61
1:Z:524:THR:HB	1:Z:536:GLN:HE21	1.64	0.61
1:j:293:ASN:OD1	1:w:293:ASN:ND2	2.33	0.61
1:u:476:CYS:SG	1:u:574:PHE:HB2	2.41	0.61
1:y:406:TYR:OH	1:y:639:HIS:O	2.15	0.61
1:3:691:ARG:NH1	1:3:730:THR:OG1	2.33	0.61
1:7:691:ARG:NH1	1:7:730:THR:OG1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:476:CYS:SG	1:I:574:PHE:HB2	2.41	0.61
1:M:691:ARG:NH1	1:M:730:THR:OG1	2.33	0.61
1:N:293:ASN:OD1	1:O:293:ASN:ND2	2.32	0.61
1:Q:223:HIS:O	1:Q:238:THR:OG1	2.12	0.61
1:S:691:ARG:NH1	1:S:730:THR:OG1	2.33	0.61
1:U:691:ARG:NH1	1:U:730:THR:OG1	2.33	0.61
1:W:691:ARG:NH1	1:W:730:THR:OG1	2.33	0.61
1:Y:691:ARG:NH1	1:Y:730:THR:OG1	2.33	0.61
1:Z:476:CYS:SG	1:Z:574:PHE:HB2	2.40	0.61
1:a:476:CYS:SG	1:a:574:PHE:HB2	2.40	0.61
1:l:691:ARG:NH1	1:l:730:THR:OG1	2.33	0.61
1:q:420:SER:N	1:q:731:ASN:O	2.32	0.61
1:y:524:THR:HB	1:y:536:GLN:HE21	1.65	0.61
1:6:524:THR:HB	1:6:536:GLN:HE21	1.65	0.61
1:6:691:ARG:NH1	1:6:730:THR:OG1	2.33	0.61
1:C:397:ARG:H	1:C:400:ASN:HD22	1.48	0.61
1:F:476:CYS:SG	1:F:574:PHE:HB2	2.40	0.61
1:L:524:THR:HB	1:L:536:GLN:HE21	1.65	0.61
1:N:476:CYS:SG	1:N:574:PHE:HB2	2.40	0.61
1:O:691:ARG:NH1	1:O:730:THR:OG1	2.33	0.61
1:R:691:ARG:NH1	1:R:730:THR:OG1	2.33	0.61
1:T:400:ASN:HD21	1:i:218:ALA:H	1.46	0.61
1:T:691:ARG:NH1	1:T:730:THR:OG1	2.33	0.61
1:V:476:CYS:SG	1:V:574:PHE:HB2	2.41	0.61
1:f:397:ARG:H	1:f:400:ASN:HD22	1.47	0.61
1:h:691:ARG:NH1	1:h:730:THR:OG1	2.33	0.61
1:i:476:CYS:SG	1:i:574:PHE:HB2	2.41	0.61
1:j:223:HIS:O	1:j:238:THR:OG1	2.12	0.61
1:j:691:ARG:NH1	1:j:730:THR:OG1	2.33	0.61
1:m:691:ARG:NH1	1:m:730:THR:OG1	2.33	0.61
1:p:476:CYS:SG	1:p:574:PHE:HB2	2.41	0.61
1:r:691:ARG:NH1	1:r:730:THR:OG1	2.33	0.61
1:s:524:THR:HB	1:s:536:GLN:HE21	1.65	0.61
1:s:691:ARG:NH1	1:s:730:THR:OG1	2.33	0.61
1:t:476:CYS:SG	1:t:574:PHE:HB2	2.40	0.61
1:u:691:ARG:NH1	1:u:730:THR:OG1	2.33	0.61
1:3:476:CYS:SG	1:3:574:PHE:HB2	2.40	0.61
1:5:524:THR:HB	1:5:536:GLN:HE21	1.65	0.61
1:8:476:CYS:SG	1:8:574:PHE:HB2	2.40	0.61
1:E:476:CYS:SG	1:E:574:PHE:HB2	2.40	0.61
1:F:406:TYR:OH	1:F:639:HIS:O	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:476:CYS:SG	1:G:574:PHE:HB2	2.40	0.61
1:G:691:ARG:NH1	1:G:730:THR:OG1	2.33	0.61
1:H:524:THR:HB	1:H:536:GLN:HE21	1.65	0.61
1:I:691:ARG:NH1	1:I:730:THR:OG1	2.33	0.61
1:P:691:ARG:NH1	1:P:730:THR:OG1	2.33	0.61
1:Q:476:CYS:SG	1:Q:574:PHE:HB2	2.41	0.61
1:Q:691:ARG:NH1	1:Q:730:THR:OG1	2.33	0.61
1:R:420:SER:N	1:R:731:ASN:O	2.32	0.61
1:W:524:THR:HB	1:W:536:GLN:HE21	1.65	0.61
1:X:476:CYS:SG	1:X:574:PHE:HB2	2.40	0.61
1:b:397:ARG:H	1:b:400:ASN:HD22	1.47	0.61
1:c:476:CYS:SG	1:c:574:PHE:HB2	2.40	0.61
1:e:476:CYS:SG	1:e:574:PHE:HB2	2.40	0.61
1:j:293:ASN:ND2	1:w:293:ASN:OD1	2.32	0.61
1:o:476:CYS:SG	1:o:574:PHE:HB2	2.40	0.61
1:q:691:ARG:NH1	1:q:730:THR:OG1	2.33	0.61
1:v:397:ARG:H	1:v:400:ASN:HD22	1.48	0.61
1:x:476:CYS:SG	1:x:574:PHE:HB2	2.41	0.61
1:y:420:SER:N	1:y:731:ASN:O	2.32	0.61
1:y:476:CYS:SG	1:y:574:PHE:HB2	2.41	0.61
1:z:476:CYS:SG	1:z:574:PHE:HB2	2.40	0.61
1:A:397:ARG:H	1:A:400:ASN:HD22	1.48	0.61
1:F:524:THR:HB	1:F:536:GLN:HE21	1.65	0.61
1:J:691:ARG:NH1	1:J:730:THR:OG1	2.33	0.61
1:L:476:CYS:SG	1:L:574:PHE:HB2	2.40	0.61
1:U:524:THR:HB	1:U:536:GLN:HE21	1.65	0.61
1:W:476:CYS:SG	1:W:574:PHE:HB2	2.41	0.61
1:Y:524:THR:HB	1:Y:536:GLN:HE21	1.65	0.61
1:d:524:THR:HB	1:d:536:GLN:HE21	1.65	0.61
1:n:524:THR:HB	1:n:536:GLN:HE21	1.65	0.61
1:n:691:ARG:NH1	1:n:730:THR:OG1	2.33	0.61
1:t:525:ALA:O	1:t:559:SER:OG	2.18	0.61
1:t:691:ARG:NH1	1:t:730:THR:OG1	2.33	0.61
1:x:691:ARG:NH1	1:x:730:THR:OG1	2.33	0.61
1:5:397:ARG:H	1:5:400:ASN:HD22	1.48	0.61
1:E:524:THR:HB	1:E:536:GLN:HE21	1.64	0.61
1:E:691:ARG:NH1	1:E:730:THR:OG1	2.33	0.61
1:F:420:SER:N	1:F:731:ASN:O	2.32	0.61
1:G:525:ALA:O	1:G:559:SER:OG	2.18	0.61
1:d:691:ARG:NH1	1:d:730:THR:OG1	2.33	0.61
1:g:397:ARG:H	1:g:400:ASN:HD22	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:476:CYS:SG	1:w:574:PHE:HB2	2.41	0.61
1:w:691:ARG:NH1	1:w:730:THR:OG1	2.33	0.61
1:x:223:HIS:O	1:x:238:THR:OG1	2.12	0.61
1:6:476:CYS:SG	1:6:574:PHE:HB2	2.41	0.61
1:7:524:THR:HB	1:7:536:GLN:HE21	1.64	0.61
1:K:476:CYS:SG	1:K:574:PHE:HB2	2.40	0.61
1:M:406:TYR:OH	1:M:639:HIS:O	2.15	0.61
1:P:223:HIS:O	1:P:238:THR:OG1	2.12	0.61
1:R:476:CYS:SG	1:R:574:PHE:HB2	2.41	0.61
1:h:406:TYR:OH	1:h:639:HIS:O	2.15	0.61
1:q:476:CYS:SG	1:q:574:PHE:HB2	2.41	0.61
1:v:476:CYS:SG	1:v:574:PHE:HB2	2.40	0.61
1:z:691:ARG:NH1	1:z:730:THR:OG1	2.33	0.61
1:2:691:ARG:NH1	1:2:730:THR:OG1	2.33	0.61
1:4:476:CYS:SG	1:4:574:PHE:HB2	2.40	0.61
1:A:476:CYS:SG	1:A:574:PHE:HB2	2.41	0.61
1:H:397:ARG:H	1:H:400:ASN:HD22	1.48	0.61
1:L:691:ARG:NH1	1:L:730:THR:OG1	2.33	0.61
1:Q:524:THR:HB	1:Q:536:GLN:HE21	1.65	0.61
1:k:476:CYS:SG	1:k:574:PHE:HB2	2.40	0.61
1:l:476:CYS:SG	1:l:574:PHE:HB2	2.40	0.61
1:x:524:THR:HB	1:x:536:GLN:HE21	1.65	0.61
1:y:691:ARG:NH1	1:y:730:THR:OG1	2.33	0.61
1:B:476:CYS:SG	1:B:574:PHE:HB2	2.41	0.61
1:D:476:CYS:SG	1:D:574:PHE:HB2	2.41	0.61
1:G:420:SER:N	1:G:731:ASN:O	2.32	0.61
1:M:476:CYS:SG	1:M:574:PHE:HB2	2.40	0.61
1:O:476:CYS:SG	1:O:574:PHE:HB2	2.40	0.61
1:T:476:CYS:SG	1:T:574:PHE:HB2	2.40	0.61
1:U:476:CYS:SG	1:U:574:PHE:HB2	2.40	0.61
1:V:691:ARG:NH1	1:V:730:THR:OG1	2.33	0.61
1:j:420:SER:N	1:j:731:ASN:O	2.32	0.61
1:s:476:CYS:SG	1:s:574:PHE:HB2	2.40	0.61
1:w:524:THR:HB	1:w:536:GLN:HE21	1.65	0.61
1:1:476:CYS:SG	1:1:574:PHE:HB2	2.41	0.61
1:B:691:ARG:NH1	1:B:730:THR:OG1	2.33	0.60
1:F:397:ARG:H	1:F:400:ASN:HD22	1.48	0.60
1:F:691:ARG:NH1	1:F:730:THR:OG1	2.33	0.60
1:J:476:CYS:SG	1:J:574:PHE:HB2	2.41	0.60
1:K:524:THR:HB	1:K:536:GLN:HE21	1.65	0.60
1:Z:691:ARG:NH1	1:Z:730:THR:OG1	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:397:ARG:H	1:a:400:ASN:HD22	1.48	0.60
1:h:476:CYS:SG	1:h:574:PHE:HB2	2.40	0.60
1:m:476:CYS:SG	1:m:574:PHE:HB2	2.40	0.60
1:q:397:ARG:H	1:q:400:ASN:HD22	1.48	0.60
1:y:397:ARG:H	1:y:400:ASN:HD22	1.48	0.60
1:1:691:ARG:NH1	1:1:730:THR:OG1	2.33	0.60
1:3:397:ARG:H	1:3:400:ASN:HD22	1.48	0.60
1:I:524:THR:HB	1:I:536:GLN:HE21	1.65	0.60
1:N:691:ARG:NH1	1:N:730:THR:OG1	2.33	0.60
1:R:397:ARG:H	1:R:400:ASN:HD22	1.48	0.60
1:T:526:GLY:N	1:T:529:ASP:OD2	2.35	0.60
1:d:397:ARG:H	1:d:400:ASN:HD22	1.48	0.60
1:h:420:SER:N	1:h:731:ASN:O	2.32	0.60
1:m:526:GLY:N	1:m:529:ASP:OD2	2.35	0.60
1:p:691:ARG:NH1	1:p:730:THR:OG1	2.33	0.60
1:t:420:SER:N	1:t:731:ASN:O	2.32	0.60
1:t:524:THR:HB	1:t:536:GLN:HE21	1.64	0.60
1:4:524:THR:HB	1:4:536:GLN:HE21	1.65	0.60
1:8:691:ARG:NH1	1:8:730:THR:OG1	2.33	0.60
1:B:397:ARG:H	1:B:400:ASN:HD22	1.48	0.60
1:P:420:SER:N	1:P:731:ASN:O	2.32	0.60
1:i:691:ARG:NH1	1:i:730:THR:OG1	2.33	0.60
1:m:420:SER:N	1:m:731:ASN:O	2.32	0.60
1:n:397:ARG:H	1:n:400:ASN:HD22	1.48	0.60
1:2:476:CYS:SG	1:2:574:PHE:HB2	2.41	0.60
1:3:524:THR:HB	1:3:536:GLN:HE21	1.65	0.60
1:B:524:THR:HB	1:B:536:GLN:HE21	1.65	0.60
1:G:524:THR:HB	1:G:536:GLN:HE21	1.64	0.60
1:H:476:CYS:SG	1:H:574:PHE:HB2	2.41	0.60
1:M:397:ARG:H	1:M:400:ASN:HD22	1.48	0.60
1:M:420:SER:N	1:M:731:ASN:O	2.32	0.60
1:P:476:CYS:SG	1:P:574:PHE:HB2	2.40	0.60
1:g:420:SER:N	1:g:731:ASN:O	2.32	0.60
1:h:397:ARG:H	1:h:400:ASN:HD22	1.48	0.60
1:u:524:THR:HB	1:u:536:GLN:HE21	1.65	0.60
1:C:420:SER:N	1:C:731:ASN:O	2.32	0.60
1:C:476:CYS:SG	1:C:574:PHE:HB2	2.41	0.60
1:G:397:ARG:H	1:G:400:ASN:HD22	1.47	0.60
1:M:525:ALA:O	1:M:559:SER:OG	2.18	0.60
1:T:420:SER:N	1:T:731:ASN:O	2.32	0.60
1:g:476:CYS:SG	1:g:574:PHE:HB2	2.41	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:476:CYS:SG	1:j:574:PHE:HB2	2.40	0.60
1:k:691:ARG:NH1	1:k:730:THR:OG1	2.33	0.60
1:t:397:ARG:H	1:t:400:ASN:HD22	1.47	0.60
1:5:476:CYS:SG	1:5:574:PHE:HB2	2.40	0.60
1:J:420:SER:N	1:J:731:ASN:O	2.32	0.60
1:S:476:CYS:SG	1:S:574:PHE:HB2	2.41	0.60
1:V:397:ARG:H	1:V:400:ASN:HD22	1.48	0.60
1:a:524:THR:HB	1:a:536:GLN:HE21	1.65	0.60
1:h:525:ALA:O	1:h:559:SER:OG	2.18	0.60
1:p:397:ARG:H	1:p:400:ASN:HD22	1.48	0.60
1:r:476:CYS:SG	1:r:574:PHE:HB2	2.41	0.60
1:1:397:ARG:H	1:1:400:ASN:HD22	1.48	0.60
1:1:524:THR:HB	1:1:536:GLN:HE21	1.65	0.60
1:M:526:GLY:N	1:M:529:ASP:OD2	2.35	0.60
1:N:526:GLY:N	1:N:529:ASP:OD2	2.35	0.60
1:O:524:THR:HB	1:O:536:GLN:HE21	1.65	0.60
1:h:526:GLY:N	1:h:529:ASP:OD2	2.35	0.60
1:i:526:GLY:N	1:i:529:ASP:OD2	2.35	0.60
1:D:691:ARG:NH1	1:D:730:THR:OG1	2.33	0.60
1:I:420:SER:N	1:I:731:ASN:O	2.32	0.60
1:d:476:CYS:SG	1:d:574:PHE:HB2	2.40	0.60
1:2:420:SER:N	1:2:731:ASN:O	2.32	0.60
1:n:476:CYS:SG	1:n:574:PHE:HB2	2.40	0.60
1:b:691:ARG:NH1	1:b:730:THR:OG1	2.33	0.60
1:l:524:THR:HB	1:l:536:GLN:HE21	1.64	0.60
1:x:397:ARG:H	1:x:400:ASN:HD22	1.48	0.60
1:S:397:ARG:H	1:S:400:ASN:HD22	1.48	0.59
1:u:420:SER:N	1:u:731:ASN:O	2.32	0.59
1:5:420:SER:N	1:5:731:ASN:O	2.32	0.59
1:A:525:ALA:O	1:A:559:SER:OG	2.18	0.59
1:Q:397:ARG:H	1:Q:400:ASN:HD22	1.48	0.59
1:f:691:ARG:NH1	1:f:730:THR:OG1	2.33	0.59
1:g:526:GLY:N	1:g:529:ASP:OD2	2.35	0.59
1:r:397:ARG:H	1:r:400:ASN:HD22	1.48	0.59
1:w:526:GLY:N	1:w:529:ASP:OD2	2.35	0.59
1:y:525:ALA:O	1:y:559:SER:OG	2.18	0.59
1:2:526:GLY:N	1:2:529:ASP:OD2	2.35	0.59
1:C:526:GLY:N	1:C:529:ASP:OD2	2.35	0.59
1:E:526:GLY:N	1:E:529:ASP:OD2	2.35	0.59
1:K:415:SER:HB2	1:K:417:TYR:CE2	2.38	0.59
1:L:415:SER:HB2	1:L:417:TYR:CE2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:415:SER:HB2	1:U:417:TYR:CE2	2.38	0.59
1:g:223:HIS:O	1:g:238:THR:OG1	2.12	0.59
1:s:415:SER:HB2	1:s:417:TYR:CE2	2.38	0.59
1:z:415:SER:HB2	1:z:417:TYR:CE2	2.38	0.59
1:4:415:SER:HB2	1:4:417:TYR:CE2	2.38	0.59
1:A:526:GLY:N	1:A:529:ASP:OD2	2.35	0.59
1:E:415:SER:HB2	1:E:417:TYR:CE2	2.38	0.59
1:H:420:SER:N	1:H:731:ASN:O	2.32	0.59
1:J:246:TYR:OH	1:J:363:VAL:O	2.21	0.59
1:J:526:GLY:N	1:J:529:ASP:OD2	2.35	0.59
1:L:276:ASN:O	1:L:277:ARG:HG3	2.03	0.59
1:N:276:ASN:O	1:N:277:ARG:HG3	2.03	0.59
1:R:415:SER:HB2	1:R:417:TYR:CE2	2.38	0.59
1:X:276:ASN:O	1:X:277:ARG:HG3	2.03	0.59
1:Y:276:ASN:O	1:Y:277:ARG:HG3	2.03	0.59
1:d:246:TYR:OH	1:d:363:VAL:O	2.21	0.59
1:d:276:ASN:O	1:d:277:ARG:HG3	2.03	0.59
1:g:276:ASN:O	1:g:277:ARG:HG3	2.03	0.59
1:i:276:ASN:O	1:i:277:ARG:HG3	2.03	0.59
1:j:397:ARG:H	1:j:400:ASN:HD22	1.48	0.59
1:n:276:ASN:O	1:n:277:ARG:HG3	2.03	0.59
1:q:276:ASN:O	1:q:277:ARG:HG3	2.03	0.59
1:q:415:SER:HB2	1:q:417:TYR:CE2	2.38	0.59
1:v:415:SER:HB2	1:v:417:TYR:CE2	2.38	0.59
1:2:246:TYR:OH	1:2:363:VAL:O	2.21	0.59
1:7:276:ASN:O	1:7:277:ARG:HG3	2.03	0.59
1:A:415:SER:HB2	1:A:417:TYR:CE2	2.38	0.59
1:B:276:ASN:O	1:B:277:ARG:HG3	2.03	0.59
1:C:223:HIS:O	1:C:238:THR:OG1	2.12	0.59
1:C:276:ASN:O	1:C:277:ARG:HG3	2.03	0.59
1:D:415:SER:HB2	1:D:417:TYR:CE2	2.38	0.59
1:O:276:ASN:O	1:O:277:ARG:HG3	2.03	0.59
1:O:415:SER:HB2	1:O:417:TYR:CE2	2.38	0.59
1:Q:420:SER:N	1:Q:731:ASN:O	2.32	0.59
1:R:276:ASN:O	1:R:277:ARG:HG3	2.03	0.59
1:a:415:SER:HB2	1:a:417:TYR:CE2	2.38	0.59
1:k:415:SER:HB2	1:k:417:TYR:CE2	2.38	0.59
1:l:246:TYR:OH	1:l:363:VAL:O	2.21	0.59
1:l:276:ASN:O	1:l:277:ARG:HG3	2.03	0.59
1:l:415:SER:HB2	1:l:417:TYR:CE2	2.38	0.59
1:n:246:TYR:OH	1:n:363:VAL:O	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:276:ASN:O	1:o:277:ARG:HG3	2.03	0.59
1:v:526:GLY:N	1:v:529:ASP:OD2	2.35	0.59
1:w:415:SER:HB2	1:w:417:TYR:CE2	2.38	0.59
1:x:420:SER:N	1:x:731:ASN:O	2.32	0.59
1:z:276:ASN:O	1:z:277:ARG:HG3	2.03	0.59
1:3:415:SER:HB2	1:3:417:TYR:CE2	2.38	0.59
1:D:526:GLY:N	1:D:529:ASP:OD2	2.35	0.59
1:F:246:TYR:OH	1:F:363:VAL:O	2.21	0.59
1:G:276:ASN:O	1:G:277:ARG:HG3	2.03	0.59
1:K:276:ASN:O	1:K:277:ARG:HG3	2.03	0.59
1:L:420:SER:N	1:L:731:ASN:O	2.32	0.59
1:O:526:GLY:N	1:O:529:ASP:OD2	2.35	0.59
1:P:397:ARG:H	1:P:400:ASN:HD22	1.48	0.59
1:X:526:GLY:N	1:X:529:ASP:OD2	2.35	0.59
1:Y:415:SER:HB2	1:Y:417:TYR:CE2	2.38	0.59
1:a:276:ASN:O	1:a:277:ARG:HG3	2.03	0.59
1:d:420:SER:N	1:d:731:ASN:O	2.32	0.59
1:k:526:GLY:N	1:k:529:ASP:OD2	2.35	0.59
1:n:420:SER:N	1:n:731:ASN:O	2.32	0.59
1:z:420:SER:N	1:z:731:ASN:O	2.32	0.59
1:z:526:GLY:N	1:z:529:ASP:OD2	2.35	0.59
1:1:276:ASN:O	1:1:277:ARG:HG3	2.03	0.59
1:3:276:ASN:O	1:3:277:ARG:HG3	2.03	0.59
1:4:276:ASN:O	1:4:277:ARG:HG3	2.03	0.59
1:A:276:ASN:O	1:A:277:ARG:HG3	2.03	0.59
1:B:415:SER:HB2	1:B:417:TYR:CE2	2.38	0.59
1:G:526:GLY:N	1:G:529:ASP:OD2	2.35	0.59
1:H:246:TYR:OH	1:H:363:VAL:O	2.21	0.59
1:M:276:ASN:O	1:M:277:ARG:HG3	2.03	0.59
1:P:246:TYR:OH	1:P:363:VAL:O	2.21	0.59
1:V:276:ASN:O	1:V:277:ARG:HG3	2.03	0.59
1:W:276:ASN:O	1:W:277:ARG:HG3	2.03	0.59
1:h:276:ASN:O	1:h:277:ARG:HG3	2.03	0.59
1:h:415:SER:HB2	1:h:417:TYR:CE2	2.38	0.59
1:j:246:TYR:OH	1:j:363:VAL:O	2.21	0.59
1:l:526:GLY:N	1:l:529:ASP:OD2	2.35	0.59
1:o:526:GLY:N	1:o:529:ASP:OD2	2.35	0.59
1:t:276:ASN:O	1:t:277:ARG:HG3	2.03	0.59
1:t:526:GLY:N	1:t:529:ASP:OD2	2.35	0.59
1:1:415:SER:HB2	1:1:417:TYR:CE2	2.38	0.59
1:5:246:TYR:OH	1:5:363:VAL:O	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:415:SER:HB2	1:7:417:TYR:CE2	2.38	0.59
1:M:246:TYR:OH	1:M:363:VAL:O	2.21	0.59
1:M:415:SER:HB2	1:M:417:TYR:CE2	2.38	0.59
1:S:415:SER:HB2	1:S:417:TYR:CE2	2.38	0.59
1:h:246:TYR:OH	1:h:363:VAL:O	2.21	0.59
1:p:276:ASN:O	1:p:277:ARG:HG3	2.03	0.59
1:6:276:ASN:O	1:6:277:ARG:HG3	2.03	0.59
1:G:415:SER:HB2	1:G:417:TYR:CE2	2.38	0.59
1:L:526:GLY:N	1:L:529:ASP:OD2	2.35	0.59
1:P:276:ASN:O	1:P:277:ARG:HG3	2.03	0.59
1:Q:276:ASN:O	1:Q:277:ARG:HG3	2.03	0.59
1:Q:415:SER:HB2	1:Q:417:TYR:CE2	2.38	0.59
1:g:415:SER:HB2	1:g:417:TYR:CE2	2.38	0.59
1:r:415:SER:HB2	1:r:417:TYR:CE2	2.38	0.59
1:t:415:SER:HB2	1:t:417:TYR:CE2	2.38	0.59
1:u:276:ASN:O	1:u:277:ARG:HG3	2.03	0.59
1:v:276:ASN:O	1:v:277:ARG:HG3	2.03	0.59
1:x:276:ASN:O	1:x:277:ARG:HG3	2.03	0.59
1:x:415:SER:HB2	1:x:417:TYR:CE2	2.38	0.59
1:2:415:SER:HB2	1:2:417:TYR:CE2	2.38	0.59
1:8:687:GLU:HG3	1:8:687:GLU:O	2.03	0.59
1:B:526:GLY:N	1:B:529:ASP:OD2	2.35	0.59
1:C:415:SER:HB2	1:C:417:TYR:CE2	2.38	0.59
1:J:415:SER:HB2	1:J:417:TYR:CE2	2.38	0.59
1:T:415:SER:HB2	1:T:417:TYR:CE2	2.38	0.59
1:Z:687:GLU:HG3	1:Z:687:GLU:O	2.03	0.59
1:b:276:ASN:O	1:b:277:ARG:HG3	2.03	0.59
1:f:276:ASN:O	1:f:277:ARG:HG3	2.03	0.59
1:j:276:ASN:O	1:j:277:ARG:HG3	2.03	0.59
1:m:415:SER:HB2	1:m:417:TYR:CE2	2.38	0.59
1:o:415:SER:HB2	1:o:417:TYR:CE2	2.38	0.59
1:7:526:GLY:N	1:7:529:ASP:OD2	2.35	0.59
1:I:276:ASN:O	1:I:277:ARG:HG3	2.03	0.58
1:N:246:TYR:OH	1:N:363:VAL:O	2.21	0.58
1:R:246:TYR:OH	1:R:363:VAL:O	2.21	0.58
1:U:276:ASN:O	1:U:277:ARG:HG3	2.03	0.58
1:X:415:SER:HB2	1:X:417:TYR:CE2	2.38	0.58
1:c:276:ASN:O	1:c:277:ARG:HG3	2.03	0.58
1:c:415:SER:HB2	1:c:417:TYR:CE2	2.38	0.58
1:e:415:SER:HB2	1:e:417:TYR:CE2	2.38	0.58
1:i:246:TYR:OH	1:i:363:VAL:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:276:ASN:O	1:s:277:ARG:HG3	2.03	0.58
1:w:687:GLU:HG3	1:w:687:GLU:O	2.03	0.58
1:y:276:ASN:O	1:y:277:ARG:HG3	2.03	0.58
1:7:246:TYR:OH	1:7:363:VAL:O	2.21	0.58
1:D:276:ASN:O	1:D:277:ARG:HG3	2.03	0.58
1:E:687:GLU:O	1:E:687:GLU:HG3	2.03	0.58
1:F:276:ASN:O	1:F:277:ARG:HG3	2.03	0.58
1:K:687:GLU:HG3	1:K:687:GLU:O	2.03	0.58
1:Q:246:TYR:OH	1:Q:363:VAL:O	2.21	0.58
1:Z:415:SER:HB2	1:Z:417:TYR:CE2	2.38	0.58
1:e:276:ASN:O	1:e:277:ARG:HG3	2.03	0.58
1:k:276:ASN:O	1:k:277:ARG:HG3	2.03	0.58
1:q:246:TYR:OH	1:q:363:VAL:O	2.21	0.58
1:x:246:TYR:OH	1:x:363:VAL:O	2.21	0.58
1:1:526:GLY:N	1:1:529:ASP:OD2	2.35	0.58
1:4:687:GLU:HG3	1:4:687:GLU:O	2.03	0.58
1:N:334:PHE:CZ	1:N:388:LEU:HD22	2.39	0.58
1:O:687:GLU:HG3	1:O:687:GLU:O	2.03	0.58
1:Q:526:GLY:N	1:Q:529:ASP:OD2	2.35	0.58
1:Y:246:TYR:OH	1:Y:363:VAL:O	2.21	0.58
1:Y:526:GLY:N	1:Y:529:ASP:OD2	2.35	0.58
1:f:415:SER:HB2	1:f:417:TYR:CE2	2.38	0.58
1:i:415:SER:HB2	1:i:417:TYR:CE2	2.38	0.58
1:l:687:GLU:HG3	1:l:687:GLU:O	2.03	0.58
1:q:526:GLY:N	1:q:529:ASP:OD2	2.35	0.58
1:1:525:ALA:O	1:1:559:SER:OG	2.18	0.58
1:8:415:SER:HB2	1:8:417:TYR:CE2	2.38	0.58
1:N:415:SER:HB2	1:N:417:TYR:CE2	2.38	0.58
1:R:526:GLY:N	1:R:529:ASP:OD2	2.35	0.58
1:Z:420:SER:N	1:Z:731:ASN:O	2.32	0.58
1:b:415:SER:HB2	1:b:417:TYR:CE2	2.38	0.58
1:i:334:PHE:CZ	1:i:388:LEU:HD22	2.39	0.58
1:n:415:SER:HB2	1:n:417:TYR:CE2	2.38	0.58
1:r:526:GLY:N	1:r:529:ASP:OD2	2.35	0.58
1:t:246:TYR:OH	1:t:363:VAL:O	2.21	0.58
1:x:526:GLY:N	1:x:529:ASP:OD2	2.35	0.58
1:B:525:ALA:O	1:B:559:SER:OG	2.18	0.58
1:F:415:SER:HB2	1:F:417:TYR:CE2	2.38	0.58
1:G:246:TYR:OH	1:G:363:VAL:O	2.21	0.58
1:I:415:SER:HB2	1:I:417:TYR:CE2	2.38	0.58
1:K:246:TYR:OH	1:K:363:VAL:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:334:PHE:CZ	1:K:388:LEU:HD22	2.39	0.58
1:P:415:SER:HB2	1:P:417:TYR:CE2	2.38	0.58
1:Q:334:PHE:CZ	1:Q:388:LEU:HD22	2.39	0.58
1:S:526:GLY:N	1:S:529:ASP:OD2	2.35	0.58
1:V:334:PHE:CZ	1:V:388:LEU:HD22	2.39	0.58
1:Z:526:GLY:N	1:Z:529:ASP:OD2	2.35	0.58
1:a:246:TYR:OH	1:a:363:VAL:O	2.21	0.58
1:a:420:SER:N	1:a:731:ASN:O	2.32	0.58
1:b:420:SER:N	1:b:731:ASN:O	2.32	0.58
1:d:334:PHE:CZ	1:d:388:LEU:HD22	2.39	0.58
1:d:415:SER:HB2	1:d:417:TYR:CE2	2.38	0.58
1:e:334:PHE:CZ	1:e:388:LEU:HD22	2.39	0.58
1:j:415:SER:HB2	1:j:417:TYR:CE2	2.38	0.58
1:p:334:PHE:CZ	1:p:388:LEU:HD22	2.39	0.58
1:u:334:PHE:CZ	1:u:388:LEU:HD22	2.39	0.58
1:4:334:PHE:CZ	1:4:388:LEU:HD22	2.39	0.58
1:B:334:PHE:CZ	1:B:388:LEU:HD22	2.39	0.58
1:I:334:PHE:CZ	1:I:388:LEU:HD22	2.39	0.58
1:P:526:GLY:N	1:P:529:ASP:OD2	2.35	0.58
1:X:687:GLU:HG3	1:X:687:GLU:O	2.03	0.58
1:c:334:PHE:CZ	1:c:388:LEU:HD22	2.39	0.58
1:n:334:PHE:CZ	1:n:388:LEU:HD22	2.39	0.58
1:r:334:PHE:CZ	1:r:388:LEU:HD22	2.39	0.58
1:u:246:TYR:OH	1:u:363:VAL:O	2.21	0.58
1:u:415:SER:HB2	1:u:417:TYR:CE2	2.38	0.58
1:w:246:TYR:OH	1:w:363:VAL:O	2.21	0.58
1:1:334:PHE:CZ	1:1:388:LEU:HD22	2.39	0.58
1:3:246:TYR:OH	1:3:363:VAL:O	2.21	0.58
1:3:420:SER:N	1:3:731:ASN:O	2.32	0.58
1:4:246:TYR:OH	1:4:363:VAL:O	2.21	0.58
1:8:420:SER:N	1:8:731:ASN:O	2.32	0.58
1:8:526:GLY:N	1:8:529:ASP:OD2	2.35	0.58
1:H:687:GLU:HG3	1:H:687:GLU:O	2.04	0.58
1:Q:687:GLU:HG3	1:Q:687:GLU:O	2.03	0.58
1:S:334:PHE:CZ	1:S:388:LEU:HD22	2.39	0.58
1:Y:525:ALA:O	1:Y:559:SER:OG	2.18	0.58
1:Z:484:LYS:HE2	1:Z:557:PHE:CE2	2.39	0.58
1:i:687:GLU:HG3	1:i:687:GLU:O	2.03	0.58
1:o:687:GLU:HG3	1:o:687:GLU:O	2.03	0.58
1:x:334:PHE:CZ	1:x:388:LEU:HD22	2.39	0.58
1:y:415:SER:HB2	1:y:417:TYR:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:484:LYS:HE2	1:z:557:PHE:CE2	2.39	0.58
1:2:276:ASN:O	1:2:277:ARG:HG3	2.03	0.58
1:4:420:SER:N	1:4:731:ASN:O	2.32	0.58
1:6:334:PHE:CZ	1:6:388:LEU:HD22	2.39	0.58
1:8:276:ASN:O	1:8:277:ARG:HG3	2.03	0.58
1:8:484:LYS:HE2	1:8:557:PHE:CE2	2.39	0.58
1:D:420:SER:N	1:D:731:ASN:O	2.32	0.58
1:E:246:TYR:OH	1:E:363:VAL:O	2.21	0.58
1:E:484:LYS:HE2	1:E:557:PHE:CE2	2.39	0.58
1:I:246:TYR:OH	1:I:363:VAL:O	2.21	0.58
1:J:276:ASN:O	1:J:277:ARG:HG3	2.03	0.58
1:U:334:PHE:CZ	1:U:388:LEU:HD22	2.39	0.58
1:W:334:PHE:CZ	1:W:388:LEU:HD22	2.39	0.58
1:W:415:SER:HB2	1:W:417:TYR:CE2	2.38	0.58
1:W:484:LYS:HE2	1:W:557:PHE:CE2	2.39	0.58
1:Z:276:ASN:O	1:Z:277:ARG:HG3	2.03	0.58
1:f:420:SER:N	1:f:731:ASN:O	2.32	0.58
1:j:526:GLY:N	1:j:529:ASP:OD2	2.35	0.58
1:k:246:TYR:OH	1:k:363:VAL:O	2.21	0.58
1:r:276:ASN:O	1:r:277:ARG:HG3	2.03	0.58
1:u:526:GLY:N	1:u:529:ASP:OD2	2.35	0.58
1:w:484:LYS:HE2	1:w:557:PHE:CE2	2.39	0.58
1:x:687:GLU:O	1:x:687:GLU:HG3	2.03	0.58
1:5:687:GLU:HG3	1:5:687:GLU:O	2.04	0.58
1:6:415:SER:HB2	1:6:417:TYR:CE2	2.38	0.58
1:6:484:LYS:HE2	1:6:557:PHE:CE2	2.39	0.58
1:A:334:PHE:CZ	1:A:388:LEU:HD22	2.39	0.58
1:B:484:LYS:HE2	1:B:557:PHE:CE2	2.39	0.58
1:D:246:TYR:OH	1:D:363:VAL:O	2.21	0.58
1:E:525:ALA:O	1:E:559:SER:OG	2.18	0.58
1:I:687:GLU:HG3	1:I:687:GLU:O	2.03	0.58
1:L:484:LYS:HE2	1:L:557:PHE:CE2	2.39	0.58
1:N:687:GLU:HG3	1:N:687:GLU:O	2.03	0.58
1:S:276:ASN:O	1:S:277:ARG:HG3	2.03	0.58
1:T:276:ASN:O	1:T:277:ARG:HG3	2.03	0.58
1:a:484:LYS:HE2	1:a:557:PHE:CE2	2.39	0.58
1:a:687:GLU:HG3	1:a:687:GLU:O	2.03	0.58
1:d:484:LYS:HE2	1:d:557:PHE:CE2	2.39	0.58
1:k:420:SER:N	1:k:731:ASN:O	2.32	0.58
1:k:687:GLU:HG3	1:k:687:GLU:O	2.03	0.58
1:n:484:LYS:HE2	1:n:557:PHE:CE2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:415:SER:HB2	1:p:417:TYR:CE2	2.38	0.58
1:s:246:TYR:OH	1:s:363:VAL:O	2.21	0.58
1:u:687:GLU:HG3	1:u:687:GLU:O	2.03	0.58
1:1:420:SER:N	1:1:731:ASN:O	2.32	0.58
1:6:246:TYR:OH	1:6:363:VAL:O	2.21	0.58
1:D:484:LYS:HE2	1:D:557:PHE:CE2	2.39	0.58
1:G:484:LYS:HE2	1:G:557:PHE:CE2	2.39	0.58
1:H:415:SER:HB2	1:H:417:TYR:CE2	2.38	0.58
1:I:526:GLY:N	1:I:529:ASP:OD2	2.35	0.58
1:K:420:SER:N	1:K:731:ASN:O	2.32	0.58
1:U:246:TYR:OH	1:U:363:VAL:O	2.21	0.58
1:V:415:SER:HB2	1:V:417:TYR:CE2	2.38	0.58
1:V:526:GLY:N	1:V:529:ASP:OD2	2.35	0.58
1:m:276:ASN:O	1:m:277:ARG:HG3	2.03	0.58
1:s:334:PHE:CZ	1:s:388:LEU:HD22	2.39	0.58
1:t:484:LYS:HE2	1:t:557:PHE:CE2	2.39	0.58
1:1:484:LYS:HE2	1:1:557:PHE:CE2	2.39	0.58
1:3:484:LYS:HE2	1:3:557:PHE:CE2	2.39	0.58
1:3:687:GLU:HG3	1:3:687:GLU:O	2.03	0.58
1:5:276:ASN:O	1:5:277:ARG:HG3	2.03	0.58
1:5:415:SER:HB2	1:5:417:TYR:CE2	2.38	0.58
1:B:420:SER:N	1:B:731:ASN:O	2.32	0.57
1:D:687:GLU:HG3	1:D:687:GLU:O	2.04	0.57
1:E:420:SER:N	1:E:731:ASN:O	2.32	0.57
1:H:484:LYS:HE2	1:H:557:PHE:CE2	2.39	0.57
1:V:687:GLU:HG3	1:V:687:GLU:O	2.03	0.57
1:W:246:TYR:OH	1:W:363:VAL:O	2.21	0.57
1:g:484:LYS:HE2	1:g:557:PHE:CE2	2.39	0.57
1:k:484:LYS:HE2	1:k:557:PHE:CE2	2.39	0.57
1:v:334:PHE:CZ	1:v:388:LEU:HD22	2.39	0.57
1:y:687:GLU:HG3	1:y:687:GLU:O	2.03	0.57
1:z:334:PHE:CZ	1:z:388:LEU:HD22	2.39	0.57
1:5:484:LYS:HE2	1:5:557:PHE:CE2	2.39	0.57
1:C:484:LYS:HE2	1:C:557:PHE:CE2	2.39	0.57
1:H:276:ASN:O	1:H:277:ARG:HG3	2.03	0.57
1:L:334:PHE:CZ	1:L:388:LEU:HD22	2.39	0.57
1:e:484:LYS:HE2	1:e:557:PHE:CE2	2.39	0.57
1:g:687:GLU:HG3	1:g:687:GLU:O	2.03	0.57
1:p:687:GLU:O	1:p:687:GLU:HG3	2.03	0.57
1:A:687:GLU:HG3	1:A:687:GLU:O	2.03	0.57
1:C:687:GLU:HG3	1:C:687:GLU:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:687:GLU:HG3	1:F:687:GLU:O	2.03	0.57
1:O:484:LYS:HE2	1:O:557:PHE:CE2	2.39	0.57
1:S:484:LYS:HE2	1:S:557:PHE:CE2	2.39	0.57
1:X:484:LYS:HE2	1:X:557:PHE:CE2	2.39	0.57
1:a:334:PHE:CZ	1:a:388:LEU:HD22	2.39	0.57
1:b:223:HIS:O	1:b:238:THR:OG1	2.12	0.57
1:c:484:LYS:HE2	1:c:557:PHE:CE2	2.39	0.57
1:c:526:GLY:N	1:c:529:ASP:OD2	2.35	0.57
1:d:526:GLY:N	1:d:529:ASP:OD2	2.35	0.57
1:n:526:GLY:N	1:n:529:ASP:OD2	2.35	0.57
1:o:246:TYR:OH	1:o:363:VAL:O	2.21	0.57
1:p:526:GLY:N	1:p:529:ASP:OD2	2.35	0.57
1:r:484:LYS:HE2	1:r:557:PHE:CE2	2.39	0.57
1:t:334:PHE:CZ	1:t:388:LEU:HD22	2.39	0.57
1:w:420:SER:N	1:w:731:ASN:O	2.32	0.57
1:F:334:PHE:CZ	1:F:388:LEU:HD22	2.39	0.57
1:G:334:PHE:CZ	1:G:388:LEU:HD22	2.39	0.57
1:I:484:LYS:HE2	1:I:557:PHE:CE2	2.39	0.57
1:L:279:HIS:CD2	1:L:355:PRO:HB3	2.40	0.57
1:P:484:LYS:HE2	1:P:557:PHE:CE2	2.39	0.57
1:T:687:GLU:HG3	1:T:687:GLU:O	2.03	0.57
1:c:246:TYR:OH	1:c:363:VAL:O	2.21	0.57
1:c:279:HIS:CD2	1:c:355:PRO:HB3	2.40	0.57
1:e:279:HIS:CD2	1:e:355:PRO:HB3	2.40	0.57
1:h:334:PHE:CZ	1:h:388:LEU:HD22	2.39	0.57
1:j:334:PHE:CZ	1:j:388:LEU:HD22	2.39	0.57
1:l:484:LYS:HE2	1:l:557:PHE:CE2	2.39	0.57
1:m:687:GLU:O	1:m:687:GLU:HG3	2.03	0.57
1:o:484:LYS:HE2	1:o:557:PHE:CE2	2.39	0.57
1:u:484:LYS:HE2	1:u:557:PHE:CE2	2.39	0.57
1:y:334:PHE:CZ	1:y:388:LEU:HD22	2.39	0.57
1:y:484:LYS:HE2	1:y:557:PHE:CE2	2.39	0.57
1:z:279:HIS:CD2	1:z:355:PRO:HB3	2.40	0.57
1:7:279:HIS:CD2	1:7:355:PRO:HB3	2.40	0.57
1:E:538:ILE:HG21	1:E:555:LEU:HD23	1.87	0.57
1:K:279:HIS:CD2	1:K:355:PRO:HB3	2.40	0.57
1:K:526:GLY:N	1:K:529:ASP:OD2	2.35	0.57
1:P:334:PHE:CZ	1:P:388:LEU:HD22	2.39	0.57
1:P:687:GLU:HG3	1:P:687:GLU:O	2.04	0.57
1:R:538:ILE:HG21	1:R:555:LEU:HD23	1.87	0.57
1:S:420:SER:N	1:S:731:ASN:O	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:246:TYR:OH	1:X:363:VAL:O	2.21	0.57
1:Y:279:HIS:CD2	1:Y:355:PRO:HB3	2.40	0.57
1:a:279:HIS:CD2	1:a:355:PRO:HB3	2.40	0.57
1:b:246:TYR:OH	1:b:363:VAL:O	2.21	0.57
1:e:526:GLY:N	1:e:529:ASP:OD2	2.35	0.57
1:j:484:LYS:HE2	1:j:557:PHE:CE2	2.39	0.57
1:k:538:ILE:HG21	1:k:555:LEU:HD23	1.87	0.57
1:v:687:GLU:HG3	1:v:687:GLU:O	2.03	0.57
1:w:276:ASN:O	1:w:277:ARG:HG3	2.03	0.57
1:w:538:ILE:HG21	1:w:555:LEU:HD23	1.87	0.57
1:3:279:HIS:CD2	1:3:355:PRO:HB3	2.40	0.57
1:3:334:PHE:CZ	1:3:388:LEU:HD22	2.39	0.57
1:7:484:LYS:HE2	1:7:557:PHE:CE2	2.39	0.57
1:8:538:ILE:HG21	1:8:555:LEU:HD23	1.87	0.57
1:D:538:ILE:HG21	1:D:555:LEU:HD23	1.87	0.57
1:F:484:LYS:HE2	1:F:557:PHE:CE2	2.39	0.57
1:J:484:LYS:HE2	1:J:557:PHE:CE2	2.39	0.57
1:M:334:PHE:CZ	1:M:388:LEU:HD22	2.39	0.57
1:O:279:HIS:CD2	1:O:355:PRO:HB3	2.40	0.57
1:R:687:GLU:O	1:R:687:GLU:HG3	2.03	0.57
1:X:279:HIS:CD2	1:X:355:PRO:HB3	2.40	0.57
1:Y:484:LYS:HE2	1:Y:557:PHE:CE2	2.39	0.57
1:Y:687:GLU:HG3	1:Y:687:GLU:O	2.03	0.57
1:Z:538:ILE:HG21	1:Z:555:LEU:HD23	1.87	0.57
1:e:246:TYR:OH	1:e:363:VAL:O	2.21	0.57
1:h:279:HIS:CD2	1:h:355:PRO:HB3	2.40	0.57
1:i:484:LYS:HE2	1:i:557:PHE:CE2	2.39	0.57
1:l:279:HIS:CD2	1:l:355:PRO:HB3	2.40	0.57
1:o:279:HIS:CD2	1:o:355:PRO:HB3	2.40	0.57
1:q:538:ILE:HG21	1:q:555:LEU:HD23	1.87	0.57
1:1:246:TYR:OH	1:1:363:VAL:O	2.21	0.57
1:7:687:GLU:HG3	1:7:687:GLU:O	2.03	0.57
1:A:538:ILE:HG21	1:A:555:LEU:HD23	1.87	0.57
1:B:246:TYR:OH	1:B:363:VAL:O	2.21	0.57
1:D:279:HIS:CD2	1:D:355:PRO:HB3	2.40	0.57
1:E:276:ASN:O	1:E:277:ARG:HG3	2.03	0.57
1:J:687:GLU:O	1:J:687:GLU:HG3	2.03	0.57
1:M:279:HIS:CD2	1:M:355:PRO:HB3	2.40	0.57
1:V:279:HIS:CD2	1:V:355:PRO:HB3	2.40	0.57
1:b:484:LYS:HE2	1:b:557:PHE:CE2	2.39	0.57
1:b:538:ILE:HG21	1:b:555:LEU:HD23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:223:HIS:O	1:f:238:THR:OG1	2.12	0.57
1:f:246:TYR:OH	1:f:363:VAL:O	2.21	0.57
1:f:526:GLY:N	1:f:529:ASP:OD2	2.35	0.57
1:g:538:ILE:HG21	1:g:555:LEU:HD23	1.87	0.57
1:j:687:GLU:HG3	1:j:687:GLU:O	2.04	0.57
1:m:279:HIS:CD2	1:m:355:PRO:HB3	2.40	0.57
1:p:279:HIS:CD2	1:p:355:PRO:HB3	2.40	0.57
1:v:538:ILE:HG21	1:v:555:LEU:HD23	1.87	0.57
1:2:484:LYS:HE2	1:2:557:PHE:CE2	2.39	0.57
1:4:279:HIS:CD2	1:4:355:PRO:HB3	2.40	0.57
1:A:484:LYS:HE2	1:A:557:PHE:CE2	2.39	0.57
1:C:538:ILE:HG21	1:C:555:LEU:HD23	1.87	0.57
1:O:334:PHE:CZ	1:O:388:LEU:HD22	2.39	0.57
1:P:538:ILE:HG21	1:P:555:LEU:HD23	1.87	0.57
1:Q:484:LYS:HE2	1:Q:557:PHE:CE2	2.39	0.57
1:T:279:HIS:CD2	1:T:355:PRO:HB3	2.40	0.57
1:U:687:GLU:O	1:U:687:GLU:HG3	2.03	0.57
1:V:484:LYS:HE2	1:V:557:PHE:CE2	2.39	0.57
1:Y:223:HIS:O	1:Y:238:THR:OG1	2.12	0.57
1:a:254:LEU:N	1:a:265:GLY:O	2.35	0.57
1:c:687:GLU:HG3	1:c:687:GLU:O	2.03	0.57
1:f:484:LYS:HE2	1:f:557:PHE:CE2	2.39	0.57
1:f:538:ILE:HG21	1:f:555:LEU:HD23	1.87	0.57
1:j:538:ILE:HG21	1:j:555:LEU:HD23	1.87	0.57
1:k:279:HIS:CD2	1:k:355:PRO:HB3	2.40	0.57
1:p:484:LYS:HE2	1:p:557:PHE:CE2	2.39	0.57
1:q:484:LYS:HE2	1:q:557:PHE:CE2	2.39	0.57
1:q:687:GLU:HG3	1:q:687:GLU:O	2.03	0.57
1:v:246:TYR:OH	1:v:363:VAL:O	2.21	0.57
1:x:484:LYS:HE2	1:x:557:PHE:CE2	2.39	0.57
1:2:687:GLU:O	1:2:687:GLU:HG3	2.03	0.57
1:4:526:GLY:N	1:4:529:ASP:OD2	2.35	0.57
1:A:246:TYR:OH	1:A:363:VAL:O	2.21	0.57
1:B:279:HIS:CD2	1:B:355:PRO:HB3	2.40	0.57
1:F:538:ILE:HG21	1:F:555:LEU:HD23	1.87	0.57
1:M:687:GLU:O	1:M:687:GLU:HG3	2.03	0.57
1:N:279:HIS:CD2	1:N:355:PRO:HB3	2.40	0.57
1:N:484:LYS:HE2	1:N:557:PHE:CE2	2.39	0.57
1:O:538:ILE:HG21	1:O:555:LEU:HD23	1.87	0.57
1:Q:538:ILE:HG21	1:Q:555:LEU:HD23	1.87	0.57
1:R:484:LYS:HE2	1:R:557:PHE:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:484:LYS:HE2	1:U:557:PHE:CE2	2.39	0.57
1:e:687:GLU:O	1:e:687:GLU:HG3	2.03	0.57
1:i:279:HIS:CD2	1:i:355:PRO:HB3	2.40	0.57
1:l:334:PHE:CZ	1:l:388:LEU:HD22	2.39	0.57
1:l:538:ILE:HG21	1:l:555:LEU:HD23	1.87	0.57
1:r:420:SER:N	1:r:731:ASN:O	2.32	0.57
1:s:484:LYS:HE2	1:s:557:PHE:CE2	2.39	0.57
1:s:526:GLY:N	1:s:529:ASP:OD2	2.35	0.57
1:v:484:LYS:HE2	1:v:557:PHE:CE2	2.39	0.57
1:z:538:ILE:HG21	1:z:555:LEU:HD23	1.87	0.57
1:1:279:HIS:CD2	1:1:355:PRO:HB3	2.40	0.57
1:5:279:HIS:CD2	1:5:355:PRO:HB3	2.40	0.57
1:H:279:HIS:CD2	1:H:355:PRO:HB3	2.40	0.57
1:I:279:HIS:CD2	1:I:355:PRO:HB3	2.40	0.57
1:I:538:ILE:HG21	1:I:555:LEU:HD23	1.87	0.57
1:J:538:ILE:HG21	1:J:555:LEU:HD23	1.87	0.57
1:L:538:ILE:HG21	1:L:555:LEU:HD23	1.87	0.57
1:T:538:ILE:HG21	1:T:555:LEU:HD23	1.87	0.57
1:U:526:GLY:N	1:U:529:ASP:OD2	2.35	0.57
1:b:526:GLY:N	1:b:529:ASP:OD2	2.35	0.57
1:h:687:GLU:O	1:h:687:GLU:HG3	2.03	0.57
1:o:525:ALA:O	1:o:559:SER:OG	2.18	0.57
1:s:687:GLU:HG3	1:s:687:GLU:O	2.03	0.57
1:u:279:HIS:CD2	1:u:355:PRO:HB3	2.40	0.57
1:x:538:ILE:HG21	1:x:555:LEU:HD23	1.87	0.57
1:y:538:ILE:HG21	1:y:555:LEU:HD23	1.87	0.57
1:2:538:ILE:HG21	1:2:555:LEU:HD23	1.87	0.57
1:C:279:HIS:CD2	1:C:355:PRO:HB3	2.40	0.56
1:J:279:HIS:CD2	1:J:355:PRO:HB3	2.40	0.56
1:R:279:HIS:CD2	1:R:355:PRO:HB3	2.40	0.56
1:S:538:ILE:HG21	1:S:555:LEU:HD23	1.87	0.56
1:T:254:LEU:N	1:T:265:GLY:O	2.35	0.56
1:W:687:GLU:HG3	1:W:687:GLU:O	2.04	0.56
1:Z:246:TYR:OH	1:Z:363:VAL:O	2.21	0.56
1:b:334:PHE:CZ	1:b:388:LEU:HD22	2.39	0.56
1:f:334:PHE:CZ	1:f:388:LEU:HD22	2.39	0.56
1:m:538:ILE:HG21	1:m:555:LEU:HD23	1.87	0.56
1:q:279:HIS:CD2	1:q:355:PRO:HB3	2.40	0.56
1:r:279:HIS:CD2	1:r:355:PRO:HB3	2.40	0.56
1:r:538:ILE:HG21	1:r:555:LEU:HD23	1.87	0.56
1:x:279:HIS:CD2	1:x:355:PRO:HB3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:279:HIS:CD2	1:2:355:PRO:HB3	2.40	0.56
1:3:254:LEU:N	1:3:265:GLY:O	2.35	0.56
1:6:279:HIS:CD2	1:6:355:PRO:HB3	2.40	0.56
1:6:687:GLU:HG3	1:6:687:GLU:O	2.04	0.56
1:C:344:VAL:H	1:C:643:GLN:HE22	1.54	0.56
1:E:279:HIS:CD2	1:E:355:PRO:HB3	2.40	0.56
1:G:279:HIS:CD2	1:G:355:PRO:HB3	2.40	0.56
1:H:526:GLY:N	1:H:529:ASP:OD2	2.35	0.56
1:H:538:ILE:HG21	1:H:555:LEU:HD23	1.87	0.56
1:M:484:LYS:HE2	1:M:557:PHE:CE2	2.39	0.56
1:S:279:HIS:CD2	1:S:355:PRO:HB3	2.40	0.56
1:S:687:GLU:HG3	1:S:687:GLU:O	2.03	0.56
1:V:538:ILE:HG21	1:V:555:LEU:HD23	1.87	0.56
1:Y:538:ILE:HG21	1:Y:555:LEU:HD23	1.87	0.56
1:d:279:HIS:CD2	1:d:355:PRO:HB3	2.40	0.56
1:g:279:HIS:CD2	1:g:355:PRO:HB3	2.40	0.56
1:g:344:VAL:H	1:g:643:GLN:HE22	1.54	0.56
1:l:420:SER:N	1:l:731:ASN:O	2.32	0.56
1:n:279:HIS:CD2	1:n:355:PRO:HB3	2.40	0.56
1:p:538:ILE:HG21	1:p:555:LEU:HD23	1.87	0.56
1:r:687:GLU:HG3	1:r:687:GLU:O	2.03	0.56
1:s:279:HIS:CD2	1:s:355:PRO:HB3	2.40	0.56
1:u:538:ILE:HG21	1:u:555:LEU:HD23	1.87	0.56
1:3:538:ILE:HG21	1:3:555:LEU:HD23	1.87	0.56
1:5:538:ILE:HG21	1:5:555:LEU:HD23	1.87	0.56
1:8:246:TYR:OH	1:8:363:VAL:O	2.21	0.56
1:F:279:HIS:CD2	1:F:355:PRO:HB3	2.40	0.56
1:G:687:GLU:HG3	1:G:687:GLU:O	2.03	0.56
1:J:478:LYS:O	1:J:505:THR:HG21	2.06	0.56
1:L:687:GLU:HG3	1:L:687:GLU:O	2.03	0.56
1:N:344:VAL:H	1:N:643:GLN:HE22	1.53	0.56
1:N:538:ILE:HG21	1:N:555:LEU:HD23	1.87	0.56
1:O:420:SER:N	1:O:731:ASN:O	2.32	0.56
1:P:344:VAL:H	1:P:643:GLN:HE22	1.54	0.56
1:Q:279:HIS:CD2	1:Q:355:PRO:HB3	2.40	0.56
1:U:279:HIS:CD2	1:U:355:PRO:HB3	2.40	0.56
1:W:279:HIS:CD2	1:W:355:PRO:HB3	2.40	0.56
1:Z:334:PHE:CZ	1:Z:388:LEU:HD22	2.39	0.56
1:a:526:GLY:N	1:a:529:ASP:OD2	2.35	0.56
1:a:538:ILE:HG21	1:a:555:LEU:HD23	1.87	0.56
1:b:344:VAL:H	1:b:643:GLN:HE22	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:687:GLU:HG3	1:b:687:GLU:O	2.03	0.56
1:d:538:ILE:HG21	1:d:555:LEU:HD23	1.87	0.56
1:f:279:HIS:CD2	1:f:355:PRO:HB3	2.40	0.56
1:f:344:VAL:H	1:f:643:GLN:HE22	1.54	0.56
1:f:687:GLU:HG3	1:f:687:GLU:O	2.03	0.56
1:h:484:LYS:HE2	1:h:557:PHE:CE2	2.39	0.56
1:i:478:LYS:O	1:i:505:THR:HG21	2.06	0.56
1:i:538:ILE:HG21	1:i:555:LEU:HD23	1.87	0.56
1:j:344:VAL:H	1:j:643:GLN:HE22	1.54	0.56
1:m:484:LYS:HE2	1:m:557:PHE:CE2	2.39	0.56
1:n:538:ILE:HG21	1:n:555:LEU:HD23	1.87	0.56
1:r:478:LYS:O	1:r:505:THR:HG21	2.06	0.56
1:t:279:HIS:CD2	1:t:355:PRO:HB3	2.40	0.56
1:w:279:HIS:CD2	1:w:355:PRO:HB3	2.40	0.56
1:1:344:VAL:H	1:1:643:GLN:HE22	1.54	0.56
1:3:526:GLY:N	1:3:529:ASP:OD2	2.35	0.56
1:7:538:ILE:HG21	1:7:555:LEU:HD23	1.87	0.56
1:B:344:VAL:H	1:B:643:GLN:HE22	1.54	0.56
1:E:334:PHE:CZ	1:E:388:LEU:HD22	2.39	0.56
1:E:478:LYS:O	1:E:505:THR:HG21	2.06	0.56
1:K:484:LYS:HE2	1:K:557:PHE:CE2	2.39	0.56
1:M:344:VAL:H	1:M:643:GLN:HE22	1.54	0.56
1:S:478:LYS:O	1:S:505:THR:HG21	2.06	0.56
1:T:478:LYS:O	1:T:505:THR:HG21	2.06	0.56
1:U:538:ILE:HG21	1:U:555:LEU:HD23	1.87	0.56
1:X:344:VAL:H	1:X:643:GLN:HE22	1.54	0.56
1:X:538:ILE:HG21	1:X:555:LEU:HD23	1.87	0.56
1:b:279:HIS:CD2	1:b:355:PRO:HB3	2.40	0.56
1:h:344:VAL:H	1:h:643:GLN:HE22	1.54	0.56
1:h:478:LYS:O	1:h:505:THR:HG21	2.06	0.56
1:m:478:LYS:O	1:m:505:THR:HG21	2.06	0.56
1:o:334:PHE:CZ	1:o:388:LEU:HD22	2.39	0.56
1:o:344:VAL:H	1:o:643:GLN:HE22	1.54	0.56
1:s:538:ILE:HG21	1:s:555:LEU:HD23	1.87	0.56
1:v:344:VAL:H	1:v:643:GLN:HE22	1.54	0.56
1:y:279:HIS:CD2	1:y:355:PRO:HB3	2.40	0.56
1:2:478:LYS:O	1:2:505:THR:HG21	2.06	0.56
1:5:526:GLY:N	1:5:529:ASP:OD2	2.35	0.56
1:8:334:PHE:CZ	1:8:388:LEU:HD22	2.39	0.56
1:A:344:VAL:H	1:A:643:GLN:HE22	1.54	0.56
1:I:478:LYS:O	1:I:505:THR:HG21	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:478:LYS:O	1:M:505:THR:HG21	2.06	0.56
1:N:478:LYS:O	1:N:505:THR:HG21	2.06	0.56
1:S:344:VAL:H	1:S:643:GLN:HE22	1.54	0.56
1:T:484:LYS:HE2	1:T:557:PHE:CE2	2.39	0.56
1:X:334:PHE:CZ	1:X:388:LEU:HD22	2.39	0.56
1:d:478:LYS:O	1:d:505:THR:HG21	2.06	0.56
1:e:344:VAL:H	1:e:643:GLN:HE22	1.54	0.56
1:i:344:VAL:H	1:i:643:GLN:HE22	1.54	0.56
1:j:279:HIS:CD2	1:j:355:PRO:HB3	2.40	0.56
1:j:478:LYS:O	1:j:505:THR:HG21	2.06	0.56
1:n:478:LYS:O	1:n:505:THR:HG21	2.06	0.56
1:n:687:GLU:HG3	1:n:687:GLU:O	2.03	0.56
1:t:478:LYS:O	1:t:505:THR:HG21	2.06	0.56
1:t:687:GLU:HG3	1:t:687:GLU:O	2.03	0.56
1:u:478:LYS:O	1:u:505:THR:HG21	2.06	0.56
1:v:279:HIS:CD2	1:v:355:PRO:HB3	2.40	0.56
1:w:334:PHE:CZ	1:w:388:LEU:HD22	2.39	0.56
1:w:478:LYS:O	1:w:505:THR:HG21	2.06	0.56
1:z:687:GLU:HG3	1:z:687:GLU:O	2.03	0.56
1:4:484:LYS:HE2	1:4:557:PHE:CE2	2.39	0.56
1:A:279:HIS:CD2	1:A:355:PRO:HB3	2.40	0.56
1:C:253:ARG:HH21	1:C:379:GLN:NE2	1.98	0.56
1:G:478:LYS:O	1:G:505:THR:HG21	2.06	0.56
1:J:334:PHE:CZ	1:J:388:LEU:HD22	2.39	0.56
1:L:253:ARG:HH21	1:L:379:GLN:NE2	1.99	0.56
1:M:538:ILE:HG21	1:M:555:LEU:HD23	1.87	0.56
1:O:254:LEU:N	1:O:265:GLY:O	2.35	0.56
1:Q:478:LYS:O	1:Q:505:THR:HG21	2.06	0.56
1:U:478:LYS:O	1:U:505:THR:HG21	2.06	0.56
1:c:344:VAL:H	1:c:643:GLN:HE22	1.54	0.56
1:d:687:GLU:HG3	1:d:687:GLU:O	2.03	0.56
1:g:253:ARG:HH21	1:g:379:GLN:NE2	1.98	0.56
1:o:538:ILE:HG21	1:o:555:LEU:HD23	1.87	0.56
1:r:344:VAL:H	1:r:643:GLN:HE22	1.54	0.56
1:x:478:LYS:O	1:x:505:THR:HG21	2.06	0.56
1:1:478:LYS:O	1:1:505:THR:HG21	2.06	0.56
1:6:254:LEU:N	1:6:265:GLY:O	2.35	0.56
1:8:279:HIS:CD2	1:8:355:PRO:HB3	2.40	0.56
1:B:478:LYS:O	1:B:505:THR:HG21	2.06	0.56
1:B:687:GLU:O	1:B:687:GLU:HG3	2.03	0.56
1:F:478:LYS:O	1:F:505:THR:HG21	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:478:LYS:O	1:H:505:THR:HG21	2.06	0.56
1:J:344:VAL:H	1:J:643:GLN:HE22	1.54	0.56
1:K:478:LYS:O	1:K:505:THR:HG21	2.06	0.56
1:P:279:HIS:CD2	1:P:355:PRO:HB3	2.40	0.56
1:P:478:LYS:O	1:P:505:THR:HG21	2.06	0.56
1:V:246:TYR:OH	1:V:363:VAL:O	2.21	0.56
1:W:254:LEU:N	1:W:265:GLY:O	2.35	0.56
1:W:420:SER:N	1:W:731:ASN:O	2.32	0.56
1:Y:420:SER:N	1:Y:731:ASN:O	2.32	0.56
1:a:478:LYS:O	1:a:505:THR:HG21	2.06	0.56
1:h:538:ILE:HG21	1:h:555:LEU:HD23	1.87	0.56
1:k:344:VAL:H	1:k:643:GLN:HE22	1.54	0.56
1:n:344:VAL:H	1:n:643:GLN:HE22	1.54	0.56
1:o:254:LEU:N	1:o:265:GLY:O	2.35	0.56
1:p:246:TYR:OH	1:p:363:VAL:O	2.21	0.56
1:q:344:VAL:H	1:q:643:GLN:HE22	1.54	0.56
1:s:478:LYS:O	1:s:505:THR:HG21	2.06	0.56
1:y:478:LYS:O	1:y:505:THR:HG21	2.06	0.56
1:z:253:ARG:HH21	1:z:379:GLN:NE2	1.99	0.56
1:2:344:VAL:H	1:2:643:GLN:HE22	1.54	0.56
1:6:344:VAL:H	1:6:643:GLN:HE22	1.54	0.56
1:7:334:PHE:CZ	1:7:388:LEU:HD22	2.39	0.56
1:A:420:SER:N	1:A:731:ASN:O	2.32	0.56
1:G:538:ILE:HG21	1:G:555:LEU:HD23	1.87	0.56
1:J:558:THR:HG23	1:J:610:TYR:OH	2.06	0.56
1:R:344:VAL:H	1:R:643:GLN:HE22	1.54	0.56
1:W:344:VAL:H	1:W:643:GLN:HE22	1.54	0.56
1:W:526:GLY:N	1:W:529:ASP:OD2	2.35	0.56
1:Z:254:LEU:N	1:Z:265:GLY:O	2.35	0.56
1:Z:279:HIS:CD2	1:Z:355:PRO:HB3	2.40	0.56
1:d:344:VAL:H	1:d:643:GLN:HE22	1.54	0.56
1:e:420:SER:N	1:e:731:ASN:O	2.32	0.56
1:l:254:LEU:N	1:l:265:GLY:O	2.35	0.56
1:v:254:LEU:N	1:v:265:GLY:O	2.35	0.56
1:v:420:SER:N	1:v:731:ASN:O	2.32	0.56
1:1:558:THR:HG23	1:1:610:TYR:OH	2.06	0.56
1:2:558:THR:HG23	1:2:610:TYR:OH	2.06	0.56
1:3:478:LYS:O	1:3:505:THR:HG21	2.06	0.56
1:4:478:LYS:O	1:4:505:THR:HG21	2.06	0.56
1:5:478:LYS:O	1:5:505:THR:HG21	2.06	0.56
1:6:526:GLY:N	1:6:529:ASP:OD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:558:THR:HG23	1:B:610:TYR:OH	2.06	0.56
1:D:334:PHE:CZ	1:D:388:LEU:HD22	2.39	0.56
1:D:344:VAL:H	1:D:643:GLN:HE22	1.54	0.56
1:K:558:THR:HG23	1:K:610:TYR:OH	2.06	0.56
1:T:558:THR:HG23	1:T:610:TYR:OH	2.06	0.56
1:X:254:LEU:N	1:X:265:GLY:O	2.35	0.56
1:Y:334:PHE:CZ	1:Y:388:LEU:HD22	2.39	0.56
1:j:558:THR:HG23	1:j:610:TYR:OH	2.06	0.56
1:k:334:PHE:CZ	1:k:388:LEU:HD22	2.39	0.56
1:l:478:LYS:O	1:l:505:THR:HG21	2.06	0.56
1:n:558:THR:HG23	1:n:610:TYR:OH	2.06	0.56
1:q:334:PHE:CZ	1:q:388:LEU:HD22	2.39	0.56
1:t:538:ILE:HG21	1:t:555:LEU:HD23	1.87	0.56
1:2:334:PHE:CZ	1:2:388:LEU:HD22	2.39	0.56
1:4:558:THR:HG23	1:4:610:TYR:OH	2.06	0.56
1:5:334:PHE:CZ	1:5:388:LEU:HD22	2.39	0.56
1:8:254:LEU:N	1:8:265:GLY:O	2.35	0.56
1:A:254:LEU:N	1:A:265:GLY:O	2.35	0.56
1:E:558:THR:HG23	1:E:610:TYR:OH	2.06	0.56
1:L:558:THR:HG23	1:L:610:TYR:OH	2.06	0.56
1:P:558:THR:HG23	1:P:610:TYR:OH	2.06	0.56
1:d:558:THR:HG23	1:d:610:TYR:OH	2.06	0.56
1:e:538:ILE:HG21	1:e:555:LEU:HD23	1.87	0.56
1:g:558:THR:HG23	1:g:610:TYR:OH	2.06	0.56
1:m:558:THR:HG23	1:m:610:TYR:OH	2.06	0.56
1:o:223:HIS:O	1:o:238:THR:OG1	2.12	0.56
1:z:558:THR:HG23	1:z:610:TYR:OH	2.06	0.56
1:1:687:GLU:HG3	1:1:687:GLU:O	2.03	0.56
1:7:420:SER:N	1:7:731:ASN:O	2.32	0.56
1:B:538:ILE:HG21	1:B:555:LEU:HD23	1.87	0.55
1:C:558:THR:HG23	1:C:610:TYR:OH	2.06	0.55
1:O:478:LYS:O	1:O:505:THR:HG21	2.06	0.55
1:R:334:PHE:CZ	1:R:388:LEU:HD22	2.39	0.55
1:R:478:LYS:O	1:R:505:THR:HG21	2.06	0.55
1:V:558:THR:HG23	1:V:610:TYR:OH	2.06	0.55
1:c:538:ILE:HG21	1:c:555:LEU:HD23	1.87	0.55
1:e:223:HIS:O	1:e:238:THR:OG1	2.12	0.55
1:p:558:THR:HG23	1:p:610:TYR:OH	2.06	0.55
1:t:253:ARG:HH21	1:t:379:GLN:NE2	1.99	0.55
1:w:558:THR:HG23	1:w:610:TYR:OH	2.06	0.55
1:z:478:LYS:O	1:z:505:THR:HG21	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:538:ILE:HG21	1:1:555:LEU:HD23	1.87	0.55
1:6:420:SER:N	1:6:731:ASN:O	2.32	0.55
1:H:334:PHE:CZ	1:H:388:LEU:HD22	2.39	0.55
1:X:223:HIS:O	1:X:238:THR:OG1	2.12	0.55
1:Y:253:ARG:HH21	1:Y:379:GLN:NE2	1.99	0.55
1:c:420:SER:N	1:c:731:ASN:O	2.32	0.55
1:m:246:TYR:OH	1:m:363:VAL:O	2.21	0.55
1:q:478:LYS:O	1:q:505:THR:HG21	2.06	0.55
1:6:538:ILE:HG21	1:6:555:LEU:HD23	1.87	0.55
1:C:427:MET:SD	1:C:464:PHE:HD1	2.30	0.55
1:E:344:VAL:H	1:E:643:GLN:HE22	1.54	0.55
1:L:478:LYS:O	1:L:505:THR:HG21	2.06	0.55
1:T:246:TYR:OH	1:T:363:VAL:O	2.21	0.55
1:W:478:LYS:O	1:W:505:THR:HG21	2.06	0.55
1:W:538:ILE:HG21	1:W:555:LEU:HD23	1.87	0.55
1:Z:427:MET:SD	1:Z:464:PHE:HD1	2.30	0.55
1:Z:558:THR:HG23	1:Z:610:TYR:OH	2.06	0.55
1:d:254:LEU:N	1:d:265:GLY:O	2.35	0.55
1:g:427:MET:SD	1:g:464:PHE:HD1	2.30	0.55
1:g:478:LYS:O	1:g:505:THR:HG21	2.06	0.55
1:h:558:THR:HG23	1:h:610:TYR:OH	2.06	0.55
1:k:478:LYS:O	1:k:505:THR:HG21	2.06	0.55
1:t:558:THR:HG23	1:t:610:TYR:OH	2.06	0.55
1:w:344:VAL:H	1:w:643:GLN:HE22	1.54	0.55
1:4:538:ILE:HG21	1:4:555:LEU:HD23	1.87	0.55
1:8:427:MET:SD	1:8:464:PHE:HD1	2.30	0.55
1:8:558:THR:HG23	1:8:610:TYR:OH	2.06	0.55
1:C:478:LYS:O	1:C:505:THR:HG21	2.06	0.55
1:D:427:MET:SD	1:D:464:PHE:HD1	2.30	0.55
1:G:558:THR:HG23	1:G:610:TYR:OH	2.06	0.55
1:H:344:VAL:H	1:H:643:GLN:HE22	1.54	0.55
1:K:538:ILE:HG21	1:K:555:LEU:HD23	1.87	0.55
1:M:558:THR:HG23	1:M:610:TYR:OH	2.06	0.55
1:b:254:LEU:N	1:b:265:GLY:O	2.35	0.55
1:b:427:MET:SD	1:b:464:PHE:HD1	2.30	0.55
1:e:558:THR:HG23	1:e:610:TYR:OH	2.06	0.55
1:f:254:LEU:N	1:f:265:GLY:O	2.35	0.55
1:f:427:MET:SD	1:f:464:PHE:HD1	2.30	0.55
1:o:558:THR:HG23	1:o:610:TYR:OH	2.06	0.55
1:5:344:VAL:H	1:5:643:GLN:HE22	1.54	0.55
1:6:478:LYS:O	1:6:505:THR:HG21	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:253:ARG:HH21	1:7:379:GLN:NE2	1.99	0.55
1:D:478:LYS:O	1:D:505:THR:HG21	2.06	0.55
1:G:344:VAL:H	1:G:643:GLN:HE22	1.54	0.55
1:I:427:MET:SD	1:I:464:PHE:HD1	2.30	0.55
1:L:427:MET:SD	1:L:464:PHE:HD1	2.30	0.55
1:M:427:MET:SD	1:M:464:PHE:HD1	2.30	0.55
1:O:427:MET:SD	1:O:464:PHE:HD1	2.30	0.55
1:X:558:THR:HG23	1:X:610:TYR:OH	2.06	0.55
1:Y:344:VAL:H	1:Y:643:GLN:HE22	1.54	0.55
1:b:558:THR:HG23	1:b:610:TYR:OH	2.06	0.55
1:c:478:LYS:O	1:c:505:THR:HG21	2.06	0.55
1:c:558:THR:HG23	1:c:610:TYR:OH	2.06	0.55
1:f:558:THR:HG23	1:f:610:TYR:OH	2.06	0.55
1:i:421:GLN:HE22	1:j:342:PRO:HB3	1.72	0.55
1:k:427:MET:SD	1:k:464:PHE:HD1	2.30	0.55
1:u:427:MET:SD	1:u:464:PHE:HD1	2.30	0.55
1:z:427:MET:SD	1:z:464:PHE:HD1	2.30	0.55
1:A:558:THR:HG23	1:A:610:TYR:OH	2.06	0.55
1:F:558:THR:HG23	1:F:610:TYR:OH	2.06	0.55
1:K:427:MET:SD	1:K:464:PHE:HD1	2.30	0.55
1:Q:427:MET:SD	1:Q:464:PHE:HD1	2.30	0.55
1:V:344:VAL:H	1:V:643:GLN:HE22	1.54	0.55
1:Z:478:LYS:O	1:Z:505:THR:HG21	2.06	0.55
1:e:253:ARG:HH21	1:e:379:GLN:NE2	1.99	0.55
1:h:427:MET:SD	1:h:464:PHE:HD1	2.30	0.55
1:l:427:MET:SD	1:l:464:PHE:HD1	2.30	0.55
1:p:344:VAL:H	1:p:643:GLN:HE22	1.54	0.55
1:t:344:VAL:H	1:t:643:GLN:HE22	1.54	0.55
1:5:254:LEU:N	1:5:265:GLY:O	2.35	0.55
1:7:344:VAL:H	1:7:643:GLN:HE22	1.53	0.55
1:G:427:MET:SD	1:G:464:PHE:HD1	2.30	0.55
1:O:560:GLU:O	1:O:563:ILE:HG12	2.07	0.55
1:T:334:PHE:CZ	1:T:388:LEU:HD22	2.39	0.55
1:W:427:MET:SD	1:W:464:PHE:HD1	2.30	0.55
1:X:478:LYS:O	1:X:505:THR:HG21	2.06	0.55
1:b:478:LYS:O	1:b:505:THR:HG21	2.06	0.55
1:d:427:MET:SD	1:d:464:PHE:HD1	2.30	0.55
1:e:478:LYS:O	1:e:505:THR:HG21	2.06	0.55
1:l:560:GLU:O	1:l:563:ILE:HG12	2.07	0.55
1:m:334:PHE:CZ	1:m:388:LEU:HD22	2.39	0.55
1:n:254:LEU:N	1:n:265:GLY:O	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:427:MET:SD	1:n:464:PHE:HD1	2.30	0.55
1:o:420:SER:N	1:o:731:ASN:O	2.32	0.55
1:o:427:MET:SD	1:o:464:PHE:HD1	2.30	0.55
1:p:427:MET:SD	1:p:464:PHE:HD1	2.30	0.55
1:s:427:MET:SD	1:s:464:PHE:HD1	2.30	0.55
1:t:427:MET:SD	1:t:464:PHE:HD1	2.30	0.55
1:v:558:THR:HG23	1:v:610:TYR:OH	2.06	0.55
1:x:427:MET:SD	1:x:464:PHE:HD1	2.30	0.55
1:y:246:TYR:OH	1:y:363:VAL:O	2.21	0.55
1:y:558:THR:HG23	1:y:610:TYR:OH	2.06	0.55
1:4:427:MET:SD	1:4:464:PHE:HD1	2.30	0.55
1:7:427:MET:SD	1:7:464:PHE:HD1	2.30	0.55
1:8:478:LYS:O	1:8:505:THR:HG21	2.06	0.55
1:A:478:LYS:O	1:A:505:THR:HG21	2.06	0.55
1:C:334:PHE:CZ	1:C:388:LEU:HD22	2.39	0.55
1:D:560:GLU:O	1:D:563:ILE:HG12	2.07	0.55
1:Q:344:VAL:H	1:Q:643:GLN:HE22	1.53	0.55
1:S:560:GLU:O	1:S:563:ILE:HG12	2.07	0.55
1:U:560:GLU:O	1:U:563:ILE:HG12	2.07	0.55
1:V:427:MET:SD	1:V:464:PHE:HD1	2.30	0.55
1:X:427:MET:SD	1:X:464:PHE:HD1	2.30	0.55
1:Y:427:MET:SD	1:Y:464:PHE:HD1	2.30	0.55
1:Y:478:LYS:O	1:Y:505:THR:HG21	2.06	0.55
1:f:478:LYS:O	1:f:505:THR:HG21	2.06	0.55
1:g:525:ALA:O	1:g:559:SER:OG	2.18	0.55
1:k:560:GLU:O	1:k:563:ILE:HG12	2.07	0.55
1:m:344:VAL:H	1:m:643:GLN:HE22	1.53	0.55
1:s:560:GLU:O	1:s:563:ILE:HG12	2.07	0.55
1:v:478:LYS:O	1:v:505:THR:HG21	2.06	0.55
1:v:560:GLU:O	1:v:563:ILE:HG12	2.07	0.55
1:w:254:LEU:N	1:w:265:GLY:O	2.35	0.55
1:y:344:VAL:H	1:y:643:GLN:HE22	1.54	0.55
1:3:558:THR:HG23	1:3:610:TYR:OH	2.06	0.55
1:5:558:THR:HG23	1:5:610:TYR:OH	2.06	0.55
1:6:427:MET:SD	1:6:464:PHE:HD1	2.30	0.55
1:7:478:LYS:O	1:7:505:THR:HG21	2.06	0.55
1:A:560:GLU:O	1:A:563:ILE:HG12	2.07	0.55
1:H:254:LEU:N	1:H:265:GLY:O	2.35	0.55
1:H:558:THR:HG23	1:H:610:TYR:OH	2.06	0.55
1:I:344:VAL:H	1:I:643:GLN:HE22	1.53	0.55
1:I:560:GLU:O	1:I:563:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:427:MET:SD	1:J:464:PHE:HD1	2.30	0.55
1:N:420:SER:N	1:N:731:ASN:O	2.32	0.55
1:T:344:VAL:H	1:T:643:GLN:HE22	1.53	0.55
1:U:558:THR:HG23	1:U:610:TYR:OH	2.06	0.55
1:a:558:THR:HG23	1:a:610:TYR:OH	2.06	0.55
1:o:478:LYS:O	1:o:505:THR:HG21	2.06	0.55
1:r:560:GLU:O	1:r:563:ILE:HG12	2.07	0.55
1:s:558:THR:HG23	1:s:610:TYR:OH	2.06	0.55
1:u:560:GLU:O	1:u:563:ILE:HG12	2.07	0.55
1:x:558:THR:HG23	1:x:610:TYR:OH	2.06	0.55
1:2:427:MET:SD	1:2:464:PHE:HD1	2.30	0.55
1:4:560:GLU:O	1:4:563:ILE:HG12	2.07	0.55
1:7:558:THR:HG23	1:7:610:TYR:OH	2.06	0.55
1:8:344:VAL:H	1:8:643:GLN:HE22	1.54	0.55
1:E:254:LEU:N	1:E:265:GLY:O	2.35	0.55
1:F:344:VAL:H	1:F:643:GLN:HE22	1.54	0.55
1:F:427:MET:SD	1:F:464:PHE:HD1	2.30	0.55
1:I:558:THR:HG23	1:I:610:TYR:OH	2.06	0.55
1:K:560:GLU:O	1:K:563:ILE:HG12	2.07	0.55
1:N:427:MET:SD	1:N:464:PHE:HD1	2.30	0.55
1:R:427:MET:SD	1:R:464:PHE:HD1	2.30	0.55
1:Z:344:VAL:H	1:Z:643:GLN:HE22	1.54	0.55
1:c:253:ARG:HH21	1:c:379:GLN:NE2	1.99	0.55
1:c:427:MET:SD	1:c:464:PHE:HD1	2.30	0.55
1:e:427:MET:SD	1:e:464:PHE:HD1	2.30	0.55
1:g:334:PHE:CZ	1:g:388:LEU:HD22	2.39	0.55
1:i:420:SER:N	1:i:731:ASN:O	2.32	0.55
1:i:427:MET:SD	1:i:464:PHE:HD1	2.30	0.55
1:o:253:ARG:HH21	1:o:379:GLN:NE2	1.99	0.55
1:p:478:LYS:O	1:p:505:THR:HG21	2.06	0.55
1:q:427:MET:SD	1:q:464:PHE:HD1	2.30	0.55
1:r:246:TYR:OH	1:r:363:VAL:O	2.21	0.55
1:r:558:THR:HG23	1:r:610:TYR:OH	2.06	0.55
1:u:344:VAL:H	1:u:643:GLN:HE22	1.53	0.55
1:u:558:THR:HG23	1:u:610:TYR:OH	2.06	0.55
1:6:558:THR:HG23	1:6:610:TYR:OH	2.06	0.55
1:A:427:MET:SD	1:A:464:PHE:HD1	2.30	0.54
1:H:427:MET:SD	1:H:464:PHE:HD1	2.30	0.54
1:J:560:GLU:O	1:J:563:ILE:HG12	2.07	0.54
1:O:525:ALA:O	1:O:559:SER:OG	2.18	0.54
1:Q:558:THR:HG23	1:Q:610:TYR:OH	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:246:TYR:OH	1:S:363:VAL:O	2.21	0.54
1:U:344:VAL:H	1:U:643:GLN:HE22	1.54	0.54
1:U:427:MET:SD	1:U:464:PHE:HD1	2.30	0.54
1:X:420:SER:N	1:X:731:ASN:O	2.32	0.54
1:X:560:GLU:O	1:X:563:ILE:HG12	2.07	0.54
1:Y:558:THR:HG23	1:Y:610:TYR:OH	2.06	0.54
1:a:427:MET:SD	1:a:464:PHE:HD1	2.30	0.54
1:a:498:ASN:OD1	1:a:502:LYS:NZ	2.40	0.54
1:o:560:GLU:O	1:o:563:ILE:HG12	2.07	0.54
1:s:344:VAL:H	1:s:643:GLN:HE22	1.54	0.54
1:v:427:MET:SD	1:v:464:PHE:HD1	2.30	0.54
1:y:427:MET:SD	1:y:464:PHE:HD1	2.30	0.54
1:2:560:GLU:O	1:2:563:ILE:HG12	2.07	0.54
1:3:427:MET:SD	1:3:464:PHE:HD1	2.30	0.54
1:5:427:MET:SD	1:5:464:PHE:HD1	2.30	0.54
1:C:525:ALA:O	1:C:559:SER:OG	2.18	0.54
1:E:427:MET:SD	1:E:464:PHE:HD1	2.30	0.54
1:E:498:ASN:OD1	1:E:502:LYS:NZ	2.40	0.54
1:M:560:GLU:O	1:M:563:ILE:HG12	2.07	0.54
1:S:558:THR:HG23	1:S:610:TYR:OH	2.06	0.54
1:V:478:LYS:O	1:V:505:THR:HG21	2.06	0.54
1:W:558:THR:HG23	1:W:610:TYR:OH	2.06	0.54
1:X:253:ARG:HH21	1:X:379:GLN:NE2	1.99	0.54
1:Z:560:GLU:O	1:Z:563:ILE:HG12	2.07	0.54
1:h:254:LEU:N	1:h:265:GLY:O	2.35	0.54
1:h:560:GLU:O	1:h:563:ILE:HG12	2.07	0.54
1:k:558:THR:HG23	1:k:610:TYR:OH	2.06	0.54
1:x:344:VAL:H	1:x:643:GLN:HE22	1.54	0.54
1:3:498:ASN:OD1	1:3:502:LYS:NZ	2.40	0.54
1:8:560:GLU:O	1:8:563:ILE:HG12	2.07	0.54
1:C:246:TYR:OH	1:C:363:VAL:O	2.21	0.54
1:F:560:GLU:O	1:F:563:ILE:HG12	2.07	0.54
1:J:498:ASN:OD1	1:J:502:LYS:NZ	2.40	0.54
1:K:344:VAL:H	1:K:643:GLN:HE22	1.53	0.54
1:N:558:THR:HG23	1:N:610:TYR:OH	2.06	0.54
1:T:427:MET:SD	1:T:464:PHE:HD1	2.30	0.54
1:T:560:GLU:O	1:T:563:ILE:HG12	2.07	0.54
1:i:558:THR:HG23	1:i:610:TYR:OH	2.06	0.54
1:m:427:MET:SD	1:m:464:PHE:HD1	2.30	0.54
1:w:427:MET:SD	1:w:464:PHE:HD1	2.30	0.54
1:w:498:ASN:OD1	1:w:502:LYS:NZ	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:253:ARG:HH21	1:x:379:GLN:NE2	1.99	0.54
1:y:560:GLU:O	1:y:563:ILE:HG12	2.07	0.54
1:2:498:ASN:OD1	1:2:502:LYS:NZ	2.40	0.54
1:D:558:THR:HG23	1:D:610:TYR:OH	2.06	0.54
1:E:560:GLU:O	1:E:563:ILE:HG12	2.07	0.54
1:P:560:GLU:O	1:P:563:ILE:HG12	2.07	0.54
1:Q:253:ARG:HH21	1:Q:379:GLN:NE2	1.99	0.54
1:U:420:SER:N	1:U:731:ASN:O	2.32	0.54
1:W:421:GLN:HE22	1:Y:342:PRO:HB3	1.73	0.54
1:c:498:ASN:OD1	1:c:502:LYS:NZ	2.40	0.54
1:e:498:ASN:OD1	1:e:502:LYS:NZ	2.40	0.54
1:j:560:GLU:O	1:j:563:ILE:HG12	2.07	0.54
1:m:560:GLU:O	1:m:563:ILE:HG12	2.07	0.54
1:q:254:LEU:N	1:q:265:GLY:O	2.35	0.54
1:s:498:ASN:OD1	1:s:502:LYS:NZ	2.40	0.54
1:w:560:GLU:O	1:w:563:ILE:HG12	2.07	0.54
1:y:526:GLY:N	1:y:529:ASP:OD2	2.35	0.54
1:z:525:ALA:O	1:z:559:SER:OG	2.18	0.54
1:3:344:VAL:H	1:3:643:GLN:HE22	1.54	0.54
1:4:344:VAL:H	1:4:643:GLN:HE22	1.53	0.54
1:6:421:GLN:HE22	1:7:342:PRO:HB3	1.72	0.54
1:B:560:GLU:O	1:B:563:ILE:HG12	2.07	0.54
1:F:526:GLY:N	1:F:529:ASP:OD2	2.35	0.54
1:M:254:LEU:N	1:M:265:GLY:O	2.35	0.54
1:R:558:THR:HG23	1:R:610:TYR:OH	2.06	0.54
1:U:498:ASN:OD1	1:U:502:LYS:NZ	2.40	0.54
1:c:560:GLU:O	1:c:563:ILE:HG12	2.07	0.54
1:d:560:GLU:O	1:d:563:ILE:HG12	2.07	0.54
1:e:560:GLU:O	1:e:563:ILE:HG12	2.07	0.54
1:n:560:GLU:O	1:n:563:ILE:HG12	2.07	0.54
1:s:420:SER:N	1:s:731:ASN:O	2.32	0.54
1:x:254:LEU:N	1:x:265:GLY:O	2.35	0.54
1:x:560:GLU:O	1:x:563:ILE:HG12	2.07	0.54
1:5:560:GLU:O	1:5:563:ILE:HG12	2.07	0.54
1:C:560:GLU:O	1:C:563:ILE:HG12	2.07	0.54
1:D:421:GLN:HE22	1:N:342:PRO:HB3	1.72	0.54
1:I:253:ARG:HH21	1:I:379:GLN:NE2	1.99	0.54
1:O:558:THR:HG23	1:O:610:TYR:OH	2.06	0.54
1:V:560:GLU:O	1:V:563:ILE:HG12	2.07	0.54
1:a:344:VAL:H	1:a:643:GLN:HE22	1.54	0.54
1:a:560:GLU:O	1:a:563:ILE:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:560:GLU:O	1:g:563:ILE:HG12	2.07	0.54
1:i:342:PRO:HB3	1:k:421:GLN:HE22	1.72	0.54
1:j:427:MET:SD	1:j:464:PHE:HD1	2.30	0.54
1:l:344:VAL:H	1:l:643:GLN:HE22	1.54	0.54
1:1:560:GLU:O	1:1:563:ILE:HG12	2.07	0.54
1:3:560:GLU:O	1:3:563:ILE:HG12	2.07	0.54
1:7:560:GLU:O	1:7:563:ILE:HG12	2.07	0.54
1:H:560:GLU:O	1:H:563:ILE:HG12	2.07	0.54
1:O:344:VAL:H	1:O:643:GLN:HE22	1.54	0.54
1:Q:560:GLU:O	1:Q:563:ILE:HG12	2.07	0.54
1:S:498:ASN:OD1	1:S:502:LYS:NZ	2.40	0.54
1:g:246:TYR:OH	1:g:363:VAL:O	2.21	0.54
1:l:558:THR:HG23	1:l:610:TYR:OH	2.06	0.54
1:p:560:GLU:O	1:p:563:ILE:HG12	2.07	0.54
1:q:558:THR:HG23	1:q:610:TYR:OH	2.06	0.54
1:t:254:LEU:N	1:t:265:GLY:O	2.35	0.54
1:z:344:VAL:H	1:z:643:GLN:HE22	1.54	0.54
1:B:427:MET:SD	1:B:464:PHE:HD1	2.30	0.54
1:B:475:PRO:HG3	1:B:598:VAL:HG12	1.90	0.54
1:D:475:PRO:HG3	1:D:598:VAL:HG12	1.90	0.54
1:L:344:VAL:H	1:L:643:GLN:HE22	1.54	0.54
1:N:560:GLU:O	1:N:563:ILE:HG12	2.07	0.54
1:R:254:LEU:N	1:R:265:GLY:O	2.35	0.54
1:Y:560:GLU:O	1:Y:563:ILE:HG12	2.07	0.54
1:i:560:GLU:O	1:i:563:ILE:HG12	2.07	0.54
1:k:475:PRO:HG3	1:k:598:VAL:HG12	1.90	0.54
1:r:498:ASN:OD1	1:r:502:LYS:NZ	2.40	0.54
1:u:253:ARG:HH21	1:u:379:GLN:NE2	1.99	0.54
1:z:475:PRO:HG3	1:z:598:VAL:HG12	1.90	0.54
1:1:475:PRO:HG3	1:1:598:VAL:HG12	1.90	0.54
1:E:253:ARG:HH21	1:E:379:GLN:NE2	1.99	0.54
1:H:342:PRO:HB3	1:Y:421:GLN:HE22	1.73	0.54
1:P:427:MET:SD	1:P:464:PHE:HD1	2.30	0.54
1:Q:254:LEU:N	1:Q:265:GLY:O	2.35	0.54
1:b:560:GLU:O	1:b:563:ILE:HG12	2.07	0.54
1:c:475:PRO:HG3	1:c:598:VAL:HG12	1.90	0.54
1:e:475:PRO:HG3	1:e:598:VAL:HG12	1.90	0.54
1:r:427:MET:SD	1:r:464:PHE:HD1	2.30	0.54
1:v:498:ASN:OD1	1:v:502:LYS:NZ	2.40	0.54
1:1:427:MET:SD	1:1:464:PHE:HD1	2.30	0.54
1:A:498:ASN:OD1	1:A:502:LYS:NZ	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:254:LEU:N	1:G:265:GLY:O	2.35	0.54
1:L:475:PRO:HG3	1:L:598:VAL:HG12	1.90	0.54
1:O:475:PRO:HG3	1:O:598:VAL:HG12	1.90	0.54
1:R:560:GLU:O	1:R:563:ILE:HG12	2.07	0.54
1:V:420:SER:N	1:V:731:ASN:O	2.32	0.54
1:f:560:GLU:O	1:f:563:ILE:HG12	2.07	0.54
1:q:475:PRO:HG3	1:q:598:VAL:HG12	1.90	0.54
1:6:560:GLU:O	1:6:563:ILE:HG12	2.07	0.54
1:A:421:GLN:HE22	1:G:342:PRO:HB3	1.74	0.53
1:C:475:PRO:HG3	1:C:598:VAL:HG12	1.90	0.53
1:E:475:PRO:HG3	1:E:598:VAL:HG12	1.90	0.53
1:N:421:GLN:HE22	1:P:342:PRO:HB3	1.73	0.53
1:O:246:TYR:OH	1:O:363:VAL:O	2.21	0.53
1:S:427:MET:SD	1:S:464:PHE:HD1	2.30	0.53
1:W:560:GLU:O	1:W:563:ILE:HG12	2.07	0.53
1:d:498:ASN:OD1	1:d:502:LYS:NZ	2.40	0.53
1:j:253:ARG:HH21	1:j:379:GLN:NE2	1.99	0.53
1:l:475:PRO:HG3	1:l:598:VAL:HG12	1.90	0.53
1:t:342:PRO:HB3	1:v:421:GLN:HE22	1.74	0.53
1:w:475:PRO:HG3	1:w:598:VAL:HG12	1.90	0.53
1:L:560:GLU:O	1:L:563:ILE:HG12	2.07	0.53
1:R:475:PRO:HG3	1:R:598:VAL:HG12	1.90	0.53
1:c:223:HIS:O	1:c:238:THR:OG1	2.12	0.53
1:g:475:PRO:HG3	1:g:598:VAL:HG12	1.90	0.53
1:n:475:PRO:HG3	1:n:598:VAL:HG12	1.90	0.53
1:n:498:ASN:OD1	1:n:502:LYS:NZ	2.40	0.53
1:q:560:GLU:O	1:q:563:ILE:HG12	2.07	0.53
1:z:246:TYR:OH	1:z:363:VAL:O	2.21	0.53
1:5:342:PRO:HB3	1:7:421:GLN:HE22	1.73	0.53
1:A:475:PRO:HG3	1:A:598:VAL:HG12	1.90	0.53
1:Y:475:PRO:HG3	1:Y:598:VAL:HG12	1.90	0.53
1:d:475:PRO:HG3	1:d:598:VAL:HG12	1.90	0.53
1:i:421:GLN:NE2	1:j:342:PRO:HB3	2.23	0.53
1:v:475:PRO:HG3	1:v:598:VAL:HG12	1.90	0.53
1:w:253:ARG:HH21	1:w:379:GLN:NE2	1.99	0.53
1:7:424:ASP:N	1:7:424:ASP:OD1	2.42	0.53
1:D:424:ASP:N	1:D:424:ASP:OD1	2.42	0.53
1:G:560:GLU:O	1:G:563:ILE:HG12	2.07	0.53
1:H:424:ASP:N	1:H:424:ASP:OD1	2.42	0.53
1:V:254:LEU:N	1:V:265:GLY:O	2.35	0.53
1:W:475:PRO:HG3	1:W:598:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:424:ASP:OD1	1:Y:424:ASP:N	2.42	0.53
1:f:446:THR:HG23	1:f:449:GLN:HB2	1.91	0.53
1:k:424:ASP:N	1:k:424:ASP:OD1	2.41	0.53
1:k:446:THR:HG23	1:k:449:GLN:HB2	1.91	0.53
1:z:421:GLN:HE22	1:1:342:PRO:HB3	1.74	0.53
1:z:560:GLU:O	1:z:563:ILE:HG12	2.07	0.53
1:4:254:LEU:N	1:4:265:GLY:O	2.35	0.53
1:5:424:ASP:N	1:5:424:ASP:OD1	2.42	0.53
1:7:475:PRO:HG3	1:7:598:VAL:HG12	1.90	0.53
1:B:342:PRO:HB3	1:L:421:GLN:HE22	1.74	0.53
1:K:446:THR:HG23	1:K:449:GLN:HB2	1.91	0.53
1:L:446:THR:HG23	1:L:449:GLN:HB2	1.91	0.53
1:Q:446:THR:HG23	1:Q:449:GLN:HB2	1.91	0.53
1:T:618:LYS:HB2	1:T:640:PRO:HG3	1.91	0.53
1:W:446:THR:HG23	1:W:449:GLN:HB2	1.91	0.53
1:X:446:THR:HG23	1:X:449:GLN:HB2	1.91	0.53
1:X:475:PRO:HG3	1:X:598:VAL:HG12	1.90	0.53
1:b:446:THR:HG23	1:b:449:GLN:HB2	1.91	0.53
1:c:421:GLN:HE22	1:o:342:PRO:HB3	1.74	0.53
1:g:446:THR:HG23	1:g:449:GLN:HB2	1.91	0.53
1:o:446:THR:HG23	1:o:449:GLN:HB2	1.91	0.53
1:p:420:SER:N	1:p:731:ASN:O	2.32	0.53
1:q:342:PRO:HB3	1:s:421:GLN:HE22	1.74	0.53
1:x:446:THR:HG23	1:x:449:GLN:HB2	1.91	0.53
1:x:475:PRO:HG3	1:x:598:VAL:HG12	1.90	0.53
1:z:446:THR:HG23	1:z:449:GLN:HB2	1.91	0.53
1:6:475:PRO:HG3	1:6:598:VAL:HG12	1.90	0.53
1:C:421:GLN:HE22	1:b:342:PRO:HB3	1.74	0.53
1:C:446:THR:HG23	1:C:449:GLN:HB2	1.91	0.53
1:D:446:THR:HG23	1:D:449:GLN:HB2	1.91	0.53
1:G:446:THR:HG23	1:G:449:GLN:HB2	1.91	0.53
1:L:246:TYR:OH	1:L:363:VAL:O	2.21	0.53
1:P:253:ARG:HH21	1:P:379:GLN:NE2	1.99	0.53
1:Q:475:PRO:HG3	1:Q:598:VAL:HG12	1.90	0.53
1:R:342:PRO:HB3	1:U:421:GLN:HE22	1.74	0.53
1:U:618:LYS:HB2	1:U:640:PRO:HG3	1.91	0.53
1:X:342:PRO:HB3	1:e:421:GLN:HE22	1.74	0.53
1:f:342:PRO:HB3	1:g:421:GLN:HE22	1.74	0.53
1:h:618:LYS:HB2	1:h:640:PRO:HG3	1.91	0.53
1:o:475:PRO:HG3	1:o:598:VAL:HG12	1.90	0.53
1:s:618:LYS:HB2	1:s:640:PRO:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:446:THR:HG23	1:t:449:GLN:HB2	1.91	0.53
1:t:560:GLU:O	1:t:563:ILE:HG12	2.07	0.53
1:3:618:LYS:HB2	1:3:640:PRO:HG3	1.91	0.53
1:4:446:THR:HG23	1:4:449:GLN:HB2	1.91	0.53
1:6:446:THR:HG23	1:6:449:GLN:HB2	1.91	0.53
1:A:542:PRO:HG3	1:A:721:PRO:HA	1.91	0.53
1:D:254:LEU:N	1:D:265:GLY:O	2.35	0.53
1:D:618:LYS:HB2	1:D:640:PRO:HG3	1.91	0.53
1:G:618:LYS:HB2	1:G:640:PRO:HG3	1.91	0.53
1:H:475:PRO:HG3	1:H:598:VAL:HG12	1.90	0.53
1:K:254:LEU:N	1:K:265:GLY:O	2.35	0.53
1:K:475:PRO:HG3	1:K:598:VAL:HG12	1.90	0.53
1:K:618:LYS:HB2	1:K:640:PRO:HG3	1.91	0.53
1:M:618:LYS:HB2	1:M:640:PRO:HG3	1.91	0.53
1:T:542:PRO:HG3	1:T:721:PRO:HA	1.91	0.53
1:Z:342:PRO:HB3	1:3:421:GLN:HE22	1.74	0.53
1:a:421:GLN:HE22	1:8:342:PRO:HB3	1.74	0.53
1:a:618:LYS:HB2	1:a:640:PRO:HG3	1.91	0.53
1:d:446:THR:HG23	1:d:449:GLN:HB2	1.91	0.53
1:i:618:LYS:HB2	1:i:640:PRO:HG3	1.91	0.53
1:m:542:PRO:HG3	1:m:721:PRO:HA	1.91	0.53
1:m:618:LYS:HB2	1:m:640:PRO:HG3	1.91	0.53
1:n:446:THR:HG23	1:n:449:GLN:HB2	1.91	0.53
1:t:618:LYS:HB2	1:t:640:PRO:HG3	1.91	0.53
1:v:542:PRO:HG3	1:v:721:PRO:HA	1.91	0.53
1:3:475:PRO:HG3	1:3:598:VAL:HG12	1.90	0.53
1:4:475:PRO:HG3	1:4:598:VAL:HG12	1.90	0.53
1:4:618:LYS:HB2	1:4:640:PRO:HG3	1.91	0.53
1:5:475:PRO:HG3	1:5:598:VAL:HG12	1.90	0.53
1:J:475:PRO:HG3	1:J:598:VAL:HG12	1.90	0.53
1:L:618:LYS:HB2	1:L:640:PRO:HG3	1.91	0.53
1:M:342:PRO:HB3	1:b:421:GLN:HE22	1.74	0.53
1:M:542:PRO:HG3	1:M:721:PRO:HA	1.91	0.53
1:N:618:LYS:HB2	1:N:640:PRO:HG3	1.91	0.53
1:R:542:PRO:HG3	1:R:721:PRO:HA	1.91	0.53
1:R:658:THR:HG22	1:R:659:PHE:H	1.74	0.53
1:V:475:PRO:HG3	1:V:598:VAL:HG12	1.90	0.53
1:a:475:PRO:HG3	1:a:598:VAL:HG12	1.90	0.53
1:c:342:PRO:HB3	1:p:421:GLN:HE22	1.74	0.53
1:f:421:GLN:HE22	1:h:342:PRO:HB3	1.74	0.53
1:h:542:PRO:HG3	1:h:721:PRO:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:498:ASN:OD1	1:j:502:LYS:NZ	2.40	0.53
1:k:618:LYS:HB2	1:k:640:PRO:HG3	1.91	0.53
1:n:618:LYS:HB2	1:n:640:PRO:HG3	1.91	0.53
1:p:254:LEU:N	1:p:265:GLY:O	2.35	0.53
1:p:475:PRO:HG3	1:p:598:VAL:HG12	1.90	0.53
1:q:542:PRO:HG3	1:q:721:PRO:HA	1.91	0.53
1:q:658:THR:HG22	1:q:659:PHE:H	1.74	0.53
1:w:421:GLN:HE22	1:x:342:PRO:HB3	1.74	0.53
1:w:446:THR:HG23	1:w:449:GLN:HB2	1.91	0.53
1:w:618:LYS:HB2	1:w:640:PRO:HG3	1.91	0.53
1:2:475:PRO:HG3	1:2:598:VAL:HG12	1.90	0.53
1:3:342:PRO:HB3	1:4:421:GLN:HE22	1.74	0.53
1:B:421:GLN:HE22	1:J:342:PRO:HB3	1.74	0.53
1:E:446:THR:HG23	1:E:449:GLN:HB2	1.91	0.53
1:E:618:LYS:HB2	1:E:640:PRO:HG3	1.91	0.53
1:F:446:THR:HG23	1:F:449:GLN:HB2	1.91	0.53
1:I:658:THR:HG22	1:I:659:PHE:H	1.74	0.53
1:K:421:GLN:HE22	1:a:342:PRO:HB3	1.74	0.53
1:N:424:ASP:OD1	1:N:424:ASP:N	2.42	0.53
1:O:421:GLN:HE22	1:m:342:PRO:HB3	1.74	0.53
1:T:342:PRO:HB3	1:l:421:GLN:HE22	1.74	0.53
1:T:421:GLN:HE22	1:d:342:PRO:HB3	1.74	0.53
1:V:421:GLN:HE22	1:e:342:PRO:HB3	1.74	0.53
1:b:618:LYS:HB2	1:b:640:PRO:HG3	1.91	0.53
1:d:542:PRO:HG3	1:d:721:PRO:HA	1.91	0.53
1:f:525:ALA:O	1:f:559:SER:OG	2.18	0.53
1:f:618:LYS:HB2	1:f:640:PRO:HG3	1.91	0.53
1:l:253:ARG:HH21	1:l:379:GLN:NE2	1.99	0.53
1:m:421:GLN:HE22	1:n:342:PRO:HB3	1.74	0.53
1:r:658:THR:HG22	1:r:659:PHE:H	1.74	0.53
1:s:475:PRO:HG3	1:s:598:VAL:HG12	1.90	0.53
1:u:475:PRO:HG3	1:u:598:VAL:HG12	1.90	0.53
1:u:658:THR:HG22	1:u:659:PHE:H	1.74	0.53
1:w:342:PRO:HB3	1:y:421:GLN:HE22	1.74	0.53
1:w:542:PRO:HG3	1:w:721:PRO:HA	1.91	0.53
1:B:446:THR:HG23	1:B:449:GLN:HB2	1.91	0.53
1:E:342:PRO:HB3	1:F:421:GLN:HE22	1.74	0.53
1:E:421:GLN:HE22	1:Q:342:PRO:HB3	1.74	0.53
1:H:421:GLN:HE22	1:W:342:PRO:HB3	1.74	0.53
1:I:475:PRO:HG3	1:I:598:VAL:HG12	1.90	0.53
1:N:525:ALA:O	1:N:559:SER:OG	2.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:253:ARG:HH21	1:O:379:GLN:NE2	1.99	0.53
1:O:658:THR:HG22	1:O:659:PHE:H	1.74	0.53
1:P:498:ASN:OD1	1:P:502:LYS:NZ	2.40	0.53
1:S:658:THR:HG22	1:S:659:PHE:H	1.74	0.53
1:U:475:PRO:HG3	1:U:598:VAL:HG12	1.90	0.53
1:Y:446:THR:HG23	1:Y:449:GLN:HB2	1.91	0.53
1:d:618:LYS:HB2	1:d:640:PRO:HG3	1.91	0.53
1:i:424:ASP:OD1	1:i:424:ASP:N	2.42	0.53
1:l:658:THR:HG22	1:l:659:PHE:H	1.74	0.53
1:n:542:PRO:HG3	1:n:721:PRO:HA	1.91	0.53
1:o:424:ASP:OD1	1:o:424:ASP:N	2.42	0.53
1:y:446:THR:HG23	1:y:449:GLN:HB2	1.91	0.53
1:z:618:LYS:HB2	1:z:640:PRO:HG3	1.91	0.53
1:1:446:THR:HG23	1:1:449:GLN:HB2	1.91	0.53
1:4:658:THR:HG22	1:4:659:PHE:H	1.74	0.53
1:6:618:LYS:HB2	1:6:640:PRO:HG3	1.91	0.53
1:A:342:PRO:HB3	1:I:421:GLN:HE22	1.74	0.52
1:D:421:GLN:NE2	1:N:342:PRO:HB3	2.24	0.52
1:E:542:PRO:HG3	1:E:721:PRO:HA	1.91	0.52
1:G:421:GLN:HE22	1:I:342:PRO:HB3	1.74	0.52
1:K:658:THR:HG22	1:K:659:PHE:H	1.74	0.52
1:M:446:THR:HG23	1:M:449:GLN:HB2	1.91	0.52
1:S:421:GLN:HE22	1:U:342:PRO:HB3	1.74	0.52
1:V:542:PRO:HG3	1:V:721:PRO:HA	1.91	0.52
1:W:618:LYS:HB2	1:W:640:PRO:HG3	1.91	0.52
1:W:658:THR:HG22	1:W:659:PHE:H	1.75	0.52
1:X:424:ASP:N	1:X:424:ASP:OD1	2.42	0.52
1:Y:542:PRO:HG3	1:Y:721:PRO:HA	1.91	0.52
1:a:446:THR:HG23	1:a:449:GLN:HB2	1.91	0.52
1:b:475:PRO:HG3	1:b:598:VAL:HG12	1.90	0.52
1:f:424:ASP:OD1	1:f:424:ASP:N	2.42	0.52
1:h:446:THR:HG23	1:h:449:GLN:HB2	1.91	0.52
1:i:254:LEU:N	1:i:265:GLY:O	2.35	0.52
1:i:475:PRO:HG3	1:i:598:VAL:HG12	1.90	0.52
1:k:254:LEU:N	1:k:265:GLY:O	2.35	0.52
1:p:542:PRO:HG3	1:p:721:PRO:HA	1.91	0.52
1:p:658:THR:HG22	1:p:659:PHE:H	1.74	0.52
1:t:421:GLN:HE22	1:u:342:PRO:HB3	1.74	0.52
1:1:421:GLN:HE22	1:2:342:PRO:HB3	1.74	0.52
1:3:446:THR:HG23	1:3:449:GLN:HB2	1.91	0.52
1:5:421:GLN:HE22	1:6:342:PRO:HB3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:618:LYS:HB2	1:5:640:PRO:HG3	1.91	0.52
1:6:658:THR:HG22	1:6:659:PHE:H	1.75	0.52
1:7:446:THR:HG23	1:7:449:GLN:HB2	1.91	0.52
1:C:498:ASN:OD1	1:C:502:LYS:NZ	2.40	0.52
1:E:658:THR:HG22	1:E:659:PHE:H	1.74	0.52
1:F:475:PRO:HG3	1:F:598:VAL:HG12	1.90	0.52
1:H:618:LYS:HB2	1:H:640:PRO:HG3	1.91	0.52
1:L:542:PRO:HG3	1:L:721:PRO:HA	1.91	0.52
1:N:254:LEU:N	1:N:265:GLY:O	2.35	0.52
1:N:475:PRO:HG3	1:N:598:VAL:HG12	1.90	0.52
1:Q:542:PRO:HG3	1:Q:721:PRO:HA	1.91	0.52
1:S:542:PRO:HG3	1:S:721:PRO:HA	1.91	0.52
1:V:658:THR:HG22	1:V:659:PHE:H	1.74	0.52
1:Z:268:THR:OG1	1:Z:366:TYR:O	2.24	0.52
1:b:424:ASP:N	1:b:424:ASP:OD1	2.42	0.52
1:e:446:THR:HG23	1:e:449:GLN:HB2	1.91	0.52
1:f:475:PRO:HG3	1:f:598:VAL:HG12	1.90	0.52
1:g:498:ASN:OD1	1:g:502:LYS:NZ	2.40	0.52
1:i:342:PRO:HB3	1:k:421:GLN:NE2	2.24	0.52
1:n:658:THR:HG22	1:n:659:PHE:H	1.74	0.52
1:r:446:THR:HG23	1:r:449:GLN:HB2	1.91	0.52
1:r:542:PRO:HG3	1:r:721:PRO:HA	1.91	0.52
1:s:446:THR:HG23	1:s:449:GLN:HB2	1.91	0.52
1:z:542:PRO:HG3	1:z:721:PRO:HA	1.91	0.52
1:7:542:PRO:HG3	1:7:721:PRO:HA	1.91	0.52
1:8:475:PRO:HG3	1:8:598:VAL:HG12	1.90	0.52
1:C:618:LYS:HB2	1:C:640:PRO:HG3	1.91	0.52
1:I:618:LYS:HB2	1:I:640:PRO:HG3	1.91	0.52
1:K:342:PRO:HB3	1:8:421:GLN:HE22	1.74	0.52
1:K:498:ASN:OD1	1:K:502:LYS:NZ	2.40	0.52
1:U:446:THR:HG23	1:U:449:GLN:HB2	1.91	0.52
1:U:658:THR:HG22	1:U:659:PHE:H	1.74	0.52
1:Z:475:PRO:HG3	1:Z:598:VAL:HG12	1.90	0.52
1:Z:658:THR:HG22	1:Z:659:PHE:H	1.74	0.52
1:c:446:THR:HG23	1:c:449:GLN:HB2	1.91	0.52
1:d:658:THR:HG22	1:d:659:PHE:H	1.75	0.52
1:g:618:LYS:HB2	1:g:640:PRO:HG3	1.91	0.52
1:m:446:THR:HG23	1:m:449:GLN:HB2	1.91	0.52
1:r:421:GLN:HE22	1:s:342:PRO:HB3	1.74	0.52
1:u:618:LYS:HB2	1:u:640:PRO:HG3	1.91	0.52
1:w:658:THR:HG22	1:w:659:PHE:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:542:PRO:HG3	1:y:721:PRO:HA	1.91	0.52
1:7:498:ASN:OD1	1:7:502:LYS:NZ	2.40	0.52
1:A:658:THR:HG22	1:A:659:PHE:H	1.74	0.52
1:F:542:PRO:HG3	1:F:721:PRO:HA	1.91	0.52
1:J:421:GLN:HE22	1:L:342:PRO:HB3	1.74	0.52
1:L:424:ASP:OD1	1:L:424:ASP:N	2.42	0.52
1:L:658:THR:HG22	1:L:659:PHE:H	1.74	0.52
1:R:623:ASP:OD1	1:U:415:SER:OG	2.28	0.52
1:S:446:THR:HG23	1:S:449:GLN:HB2	1.91	0.52
1:T:446:THR:HG23	1:T:449:GLN:HB2	1.91	0.52
1:e:618:LYS:HB2	1:e:640:PRO:HG3	1.91	0.52
1:g:342:PRO:HB3	1:h:421:GLN:HE22	1.74	0.52
1:i:525:ALA:O	1:i:559:SER:OG	2.18	0.52
1:m:658:THR:HG22	1:m:659:PHE:H	1.74	0.52
1:r:475:PRO:HG3	1:r:598:VAL:HG12	1.90	0.52
1:s:254:LEU:N	1:s:265:GLY:O	2.35	0.52
1:x:542:PRO:HG3	1:x:721:PRO:HA	1.91	0.52
1:y:475:PRO:HG3	1:y:598:VAL:HG12	1.90	0.52
1:z:658:THR:HG22	1:z:659:PHE:H	1.74	0.52
1:3:253:ARG:HH21	1:3:379:GLN:NE2	1.98	0.52
1:4:498:ASN:OD1	1:4:502:LYS:NZ	2.40	0.52
1:6:421:GLN:NE2	1:7:342:PRO:HB3	2.24	0.52
1:8:658:THR:HG22	1:8:659:PHE:H	1.74	0.52
1:C:342:PRO:HB3	1:M:421:GLN:HE22	1.74	0.52
1:E:522:MET:HE2	1:E:570:ASP:HA	1.92	0.52
1:L:522:MET:HE2	1:L:570:ASP:HA	1.92	0.52
1:O:542:PRO:HG3	1:O:721:PRO:HA	1.91	0.52
1:P:475:PRO:HG3	1:P:598:VAL:HG12	1.90	0.52
1:R:618:LYS:HB2	1:R:640:PRO:HG3	1.91	0.52
1:T:658:THR:HG22	1:T:659:PHE:H	1.74	0.52
1:W:253:ARG:HH21	1:W:379:GLN:NE2	1.99	0.52
1:W:421:GLN:NE2	1:Y:342:PRO:HB3	2.24	0.52
1:Y:498:ASN:OD1	1:Y:502:LYS:NZ	2.40	0.52
1:Z:421:GLN:HE22	1:4:342:PRO:HB3	1.74	0.52
1:c:618:LYS:HB2	1:c:640:PRO:HG3	1.91	0.52
1:j:475:PRO:HG3	1:j:598:VAL:HG12	1.90	0.52
1:k:658:THR:HG22	1:k:659:PHE:H	1.75	0.52
1:q:618:LYS:HB2	1:q:640:PRO:HG3	1.91	0.52
1:s:658:THR:HG22	1:s:659:PHE:H	1.74	0.52
1:u:421:GLN:HE22	1:v:342:PRO:HB3	1.74	0.52
1:v:658:THR:HG22	1:v:659:PHE:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:424:ASP:N	1:x:424:ASP:OD1	2.42	0.52
1:y:618:LYS:HB2	1:y:640:PRO:HG3	1.91	0.52
1:z:342:PRO:HB3	1:2:421:GLN:HE22	1.74	0.52
1:z:424:ASP:N	1:z:424:ASP:OD1	2.42	0.52
1:2:658:THR:HG22	1:2:659:PHE:H	1.74	0.52
1:D:658:THR:HG22	1:D:659:PHE:H	1.75	0.52
1:F:618:LYS:HB2	1:F:640:PRO:HG3	1.91	0.52
1:I:446:THR:HG23	1:I:449:GLN:HB2	1.91	0.52
1:M:475:PRO:HG3	1:M:598:VAL:HG12	1.90	0.52
1:N:658:THR:HG22	1:N:659:PHE:H	1.74	0.52
1:Q:424:ASP:OD1	1:Q:424:ASP:N	2.42	0.52
1:S:475:PRO:HG3	1:S:598:VAL:HG12	1.90	0.52
1:V:342:PRO:HB3	1:X:421:GLN:HE22	1.74	0.52
1:X:618:LYS:HB2	1:X:640:PRO:HG3	1.91	0.52
1:Z:446:THR:HG23	1:Z:449:GLN:HB2	1.91	0.52
1:c:658:THR:HG22	1:c:659:PHE:H	1.75	0.52
1:e:658:THR:HG22	1:e:659:PHE:H	1.75	0.52
1:f:542:PRO:HG3	1:f:721:PRO:HA	1.91	0.52
1:g:658:THR:HG22	1:g:659:PHE:H	1.74	0.52
1:h:253:ARG:HH21	1:h:379:GLN:NE2	1.99	0.52
1:l:542:PRO:HG3	1:l:721:PRO:HA	1.91	0.52
1:o:421:GLN:HE22	1:p:342:PRO:HB3	1.74	0.52
1:o:618:LYS:HB2	1:o:640:PRO:HG3	1.91	0.52
1:u:446:THR:HG23	1:u:449:GLN:HB2	1.91	0.52
1:v:446:THR:HG23	1:v:449:GLN:HB2	1.91	0.52
1:w:522:MET:HE2	1:w:570:ASP:HA	1.92	0.52
1:z:522:MET:HE2	1:z:570:ASP:HA	1.92	0.52
1:4:542:PRO:HG3	1:4:721:PRO:HA	1.91	0.52
1:8:446:THR:HG23	1:8:449:GLN:HB2	1.91	0.52
1:A:446:THR:HG23	1:A:449:GLN:HB2	1.91	0.52
1:C:658:THR:HG22	1:C:659:PHE:H	1.74	0.52
1:F:342:PRO:HB3	1:Q:421:GLN:HE22	1.74	0.52
1:G:542:PRO:HG3	1:G:721:PRO:HA	1.91	0.52
1:J:658:THR:HG22	1:J:659:PHE:H	1.74	0.52
1:K:542:PRO:HG3	1:K:721:PRO:HA	1.91	0.52
1:T:415:SER:OG	1:d:623:ASP:OD1	2.28	0.52
1:X:542:PRO:HG3	1:X:721:PRO:HA	1.91	0.52
1:a:253:ARG:HH21	1:a:379:GLN:NE2	1.99	0.52
1:b:542:PRO:HG3	1:b:721:PRO:HA	1.91	0.52
1:h:475:PRO:HG3	1:h:598:VAL:HG12	1.90	0.52
1:h:522:MET:HE2	1:h:570:ASP:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:658:THR:HG22	1:i:659:PHE:H	1.74	0.52
1:j:618:LYS:HB2	1:j:640:PRO:HG3	1.91	0.52
1:m:424:ASP:N	1:m:424:ASP:OD1	2.42	0.52
1:o:542:PRO:HG3	1:o:721:PRO:HA	1.91	0.52
1:p:446:THR:HG23	1:p:449:GLN:HB2	1.91	0.52
1:u:254:LEU:N	1:u:265:GLY:O	2.35	0.52
1:5:446:THR:HG23	1:5:449:GLN:HB2	1.91	0.52
1:8:618:LYS:HB2	1:8:640:PRO:HG3	1.91	0.52
1:H:446:THR:HG23	1:H:449:GLN:HB2	1.91	0.52
1:I:254:LEU:N	1:I:265:GLY:O	2.35	0.52
1:I:522:MET:HE2	1:I:570:ASP:HA	1.92	0.52
1:L:524:THR:HG1	1:L:560:GLU:H	1.54	0.52
1:M:522:MET:HE2	1:M:570:ASP:HA	1.92	0.52
1:P:618:LYS:HB2	1:P:640:PRO:HG3	1.91	0.52
1:U:254:LEU:N	1:U:265:GLY:O	2.35	0.52
1:Y:658:THR:HG22	1:Y:659:PHE:H	1.74	0.52
1:Z:618:LYS:HB2	1:Z:640:PRO:HG3	1.91	0.52
1:Z:623:ASP:OD1	1:3:415:SER:OG	2.28	0.52
1:t:542:PRO:HG3	1:t:721:PRO:HA	1.91	0.52
1:u:522:MET:HE2	1:u:570:ASP:HA	1.92	0.52
1:1:658:THR:HG22	1:1:659:PHE:H	1.74	0.52
1:B:658:THR:HG22	1:B:659:PHE:H	1.74	0.52
1:G:475:PRO:HG3	1:G:598:VAL:HG12	1.90	0.52
1:N:522:MET:HE2	1:N:570:ASP:HA	1.92	0.52
1:N:542:PRO:HG3	1:N:721:PRO:HA	1.91	0.52
1:T:424:ASP:OD1	1:T:424:ASP:N	2.42	0.52
1:V:446:THR:HG23	1:V:449:GLN:HB2	1.91	0.52
1:j:415:SER:OG	1:k:623:ASP:OD1	2.27	0.52
1:j:421:GLN:NE2	1:k:342:PRO:HB3	2.25	0.52
1:k:542:PRO:HG3	1:k:721:PRO:HA	1.91	0.52
1:y:658:THR:HG22	1:y:659:PHE:H	1.74	0.52
1:1:542:PRO:HG3	1:1:721:PRO:HA	1.91	0.52
1:7:658:THR:HG22	1:7:659:PHE:H	1.74	0.52
1:8:522:MET:HE2	1:8:570:ASP:HA	1.92	0.52
1:B:542:PRO:HG3	1:B:721:PRO:HA	1.91	0.52
1:D:542:PRO:HG3	1:D:721:PRO:HA	1.91	0.52
1:F:658:THR:HG22	1:F:659:PHE:H	1.74	0.52
1:M:253:ARG:HH21	1:M:379:GLN:NE2	1.99	0.52
1:M:658:THR:HG22	1:M:659:PHE:H	1.74	0.52
1:N:421:GLN:NE2	1:P:342:PRO:HB3	2.25	0.52
1:O:522:MET:HE2	1:O:570:ASP:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:424:ASP:N	1:P:424:ASP:OD1	2.42	0.52
1:Q:658:THR:HG22	1:Q:659:PHE:H	1.74	0.52
1:T:525:ALA:O	1:T:559:SER:OG	2.18	0.52
1:U:522:MET:HE2	1:U:570:ASP:HA	1.92	0.52
1:Z:522:MET:HE2	1:Z:570:ASP:HA	1.92	0.52
1:a:522:MET:HE2	1:a:570:ASP:HA	1.92	0.52
1:d:421:GLN:HE22	1:l:342:PRO:HB3	1.74	0.52
1:i:522:MET:HE2	1:i:570:ASP:HA	1.92	0.52
1:i:542:PRO:HG3	1:i:721:PRO:HA	1.91	0.52
1:l:446:THR:HG23	1:l:449:GLN:HB2	1.91	0.52
1:s:253:ARG:HH21	1:s:379:GLN:NE2	1.99	0.52
1:s:522:MET:HE2	1:s:570:ASP:HA	1.92	0.52
1:t:342:PRO:HB3	1:v:421:GLN:NE2	2.25	0.52
1:t:475:PRO:HG3	1:t:598:VAL:HG12	1.90	0.52
1:x:421:GLN:HE22	1:y:342:PRO:HB3	1.74	0.52
1:z:498:ASN:OD1	1:z:502:LYS:NZ	2.40	0.52
1:6:253:ARG:HH21	1:6:379:GLN:NE2	1.99	0.52
1:A:421:GLN:NE2	1:G:342:PRO:HB3	2.25	0.51
1:A:618:LYS:HB2	1:A:640:PRO:HG3	1.91	0.51
1:B:421:GLN:NE2	1:J:342:PRO:HB3	2.26	0.51
1:D:522:MET:HE2	1:D:570:ASP:HA	1.92	0.51
1:L:498:ASN:OD1	1:L:502:LYS:NZ	2.40	0.51
1:O:342:PRO:HB3	1:n:421:GLN:HE22	1.74	0.51
1:O:424:ASP:N	1:O:424:ASP:OD1	2.42	0.51
1:O:446:THR:HG23	1:O:449:GLN:HB2	1.91	0.51
1:P:525:ALA:O	1:P:559:SER:OG	2.18	0.51
1:Q:522:MET:HE2	1:Q:570:ASP:HA	1.92	0.51
1:Q:618:LYS:HB2	1:Q:640:PRO:HG3	1.91	0.51
1:S:618:LYS:HB2	1:S:640:PRO:HG3	1.91	0.51
1:U:253:ARG:HH21	1:U:379:GLN:NE2	1.99	0.51
1:W:542:PRO:HG3	1:W:721:PRO:HA	1.91	0.51
1:Z:342:PRO:HB3	1:3:421:GLN:NE2	2.25	0.51
1:a:421:GLN:NE2	1:8:342:PRO:HB3	2.25	0.51
1:k:522:MET:HE2	1:k:570:ASP:HA	1.92	0.51
1:l:522:MET:HE2	1:l:570:ASP:HA	1.92	0.51
1:v:253:ARG:HH21	1:v:379:GLN:NE2	1.98	0.51
1:x:522:MET:HE2	1:x:570:ASP:HA	1.92	0.51
1:x:618:LYS:HB2	1:x:640:PRO:HG3	1.91	0.51
1:1:421:GLN:NE2	1:2:342:PRO:HB3	2.26	0.51
1:1:522:MET:HE2	1:1:570:ASP:HA	1.92	0.51
1:3:424:ASP:OD1	1:3:424:ASP:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:542:PRO:HG3	1:6:721:PRO:HA	1.91	0.51
1:A:253:ARG:HH21	1:A:379:GLN:NE2	1.99	0.51
1:B:522:MET:HE2	1:B:570:ASP:HA	1.92	0.51
1:H:342:PRO:HB3	1:Y:421:GLN:NE2	2.25	0.51
1:H:522:MET:HE2	1:H:570:ASP:HA	1.92	0.51
1:J:542:PRO:HG3	1:J:721:PRO:HA	1.91	0.51
1:M:342:PRO:HB3	1:b:421:GLN:NE2	2.25	0.51
1:P:658:THR:HG22	1:P:659:PHE:H	1.74	0.51
1:R:424:ASP:N	1:R:424:ASP:OD1	2.42	0.51
1:T:475:PRO:HG3	1:T:598:VAL:HG12	1.90	0.51
1:V:421:GLN:NE2	1:e:342:PRO:HB3	2.26	0.51
1:c:342:PRO:HB3	1:p:421:GLN:NE2	2.26	0.51
1:f:421:GLN:NE2	1:h:342:PRO:HB3	2.25	0.51
1:h:658:THR:HG22	1:h:659:PHE:H	1.74	0.51
1:j:421:GLN:HE22	1:k:342:PRO:HB3	1.74	0.51
1:j:658:THR:HG22	1:j:659:PHE:H	1.74	0.51
1:l:424:ASP:OD1	1:l:424:ASP:N	2.42	0.51
1:m:475:PRO:HG3	1:m:598:VAL:HG12	1.90	0.51
1:m:525:ALA:O	1:m:559:SER:OG	2.18	0.51
1:p:424:ASP:N	1:p:424:ASP:OD1	2.42	0.51
1:q:424:ASP:OD1	1:q:424:ASP:N	2.42	0.51
1:t:658:THR:HG22	1:t:659:PHE:H	1.74	0.51
1:v:618:LYS:HB2	1:v:640:PRO:HG3	1.91	0.51
1:w:424:ASP:OD1	1:w:424:ASP:N	2.42	0.51
1:x:658:THR:HG22	1:x:659:PHE:H	1.74	0.51
1:2:542:PRO:HG3	1:2:721:PRO:HA	1.91	0.51
1:G:421:GLN:NE2	1:I:342:PRO:HB3	2.26	0.51
1:K:421:GLN:NE2	1:a:342:PRO:HB3	2.26	0.51
1:P:542:PRO:HG3	1:P:721:PRO:HA	1.91	0.51
1:R:342:PRO:HB3	1:U:421:GLN:NE2	2.26	0.51
1:V:424:ASP:OD1	1:V:424:ASP:N	2.42	0.51
1:W:424:ASP:N	1:W:424:ASP:OD1	2.42	0.51
1:d:424:ASP:OD1	1:d:424:ASP:N	2.42	0.51
1:f:623:ASP:OD1	1:g:415:SER:OG	2.28	0.51
1:j:424:ASP:N	1:j:424:ASP:OD1	2.42	0.51
1:j:446:THR:HG23	1:j:449:GLN:HB2	1.91	0.51
1:j:525:ALA:O	1:j:559:SER:OG	2.18	0.51
1:j:542:PRO:HG3	1:j:721:PRO:HA	1.91	0.51
1:q:342:PRO:HB3	1:s:421:GLN:NE2	2.26	0.51
1:r:618:LYS:HB2	1:r:640:PRO:HG3	1.91	0.51
1:s:424:ASP:N	1:s:424:ASP:OD1	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:522:MET:HE2	1:3:570:ASP:HA	1.92	0.51
1:3:542:PRO:HG3	1:3:721:PRO:HA	1.91	0.51
1:5:498:ASN:OD1	1:5:502:LYS:NZ	2.40	0.51
1:5:522:MET:HE2	1:5:570:ASP:HA	1.92	0.51
1:A:342:PRO:HB3	1:I:421:GLN:NE2	2.26	0.51
1:C:623:ASP:OD1	1:M:415:SER:OG	2.28	0.51
1:D:342:PRO:HB3	1:P:421:GLN:HE22	1.74	0.51
1:E:424:ASP:N	1:E:424:ASP:OD1	2.42	0.51
1:F:342:PRO:HB3	1:Q:421:GLN:NE2	2.26	0.51
1:F:498:ASN:OD1	1:F:502:LYS:NZ	2.40	0.51
1:G:658:THR:HG22	1:G:659:PHE:H	1.74	0.51
1:K:522:MET:HE2	1:K:570:ASP:HA	1.92	0.51
1:P:446:THR:HG23	1:P:449:GLN:HB2	1.91	0.51
1:R:421:GLN:NE2	1:S:342:PRO:HB3	2.25	0.51
1:U:542:PRO:HG3	1:U:721:PRO:HA	1.91	0.51
1:a:424:ASP:OD1	1:a:424:ASP:N	2.42	0.51
1:a:542:PRO:HG3	1:a:721:PRO:HA	1.91	0.51
1:i:446:THR:HG23	1:i:449:GLN:HB2	1.91	0.51
1:j:522:MET:HE2	1:j:570:ASP:HA	1.92	0.51
1:l:618:LYS:HB2	1:l:640:PRO:HG3	1.91	0.51
1:q:253:ARG:HH21	1:q:379:GLN:NE2	1.99	0.51
1:t:421:GLN:NE2	1:u:342:PRO:HB3	2.26	0.51
1:u:421:GLN:NE2	1:v:342:PRO:HB3	2.26	0.51
1:w:421:GLN:NE2	1:x:342:PRO:HB3	2.26	0.51
1:x:421:GLN:NE2	1:y:342:PRO:HB3	2.26	0.51
1:y:498:ASN:OD1	1:y:502:LYS:NZ	2.40	0.51
1:3:342:PRO:HB3	1:4:421:GLN:NE2	2.26	0.51
1:4:522:MET:HE2	1:4:570:ASP:HA	1.92	0.51
1:5:342:PRO:HB3	1:7:421:GLN:NE2	2.25	0.51
1:7:525:ALA:O	1:7:559:SER:OG	2.18	0.51
1:C:342:PRO:HB3	1:M:421:GLN:NE2	2.26	0.51
1:D:342:PRO:HB3	1:P:421:GLN:NE2	2.26	0.51
1:E:421:GLN:NE2	1:Q:342:PRO:HB3	2.26	0.51
1:R:522:MET:HE2	1:R:570:ASP:HA	1.92	0.51
1:T:522:MET:HE2	1:T:570:ASP:HA	1.92	0.51
1:U:424:ASP:N	1:U:424:ASP:OD1	2.42	0.51
1:d:253:ARG:HH21	1:d:379:GLN:NE2	1.99	0.51
1:g:342:PRO:HB3	1:h:421:GLN:NE2	2.26	0.51
1:n:424:ASP:OD1	1:n:424:ASP:N	2.42	0.51
1:q:421:GLN:NE2	1:r:342:PRO:HB3	2.26	0.51
1:q:522:MET:HE2	1:q:570:ASP:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:415:SER:OG	1:u:623:ASP:OD1	2.28	0.51
1:t:424:ASP:OD1	1:t:424:ASP:N	2.42	0.51
1:u:424:ASP:N	1:u:424:ASP:OD1	2.42	0.51
1:w:342:PRO:HB3	1:y:421:GLN:NE2	2.25	0.51
1:G:424:ASP:N	1:G:424:ASP:OD1	2.42	0.51
1:G:498:ASN:OD1	1:G:502:LYS:NZ	2.40	0.51
1:H:498:ASN:OD1	1:H:502:LYS:NZ	2.40	0.51
1:H:542:PRO:HG3	1:H:721:PRO:HA	1.91	0.51
1:O:618:LYS:HB2	1:O:640:PRO:HG3	1.91	0.51
1:S:522:MET:HE2	1:S:570:ASP:HA	1.92	0.51
1:X:522:MET:HE2	1:X:570:ASP:HA	1.92	0.51
1:Y:618:LYS:HB2	1:Y:640:PRO:HG3	1.91	0.51
1:a:658:THR:HG22	1:a:659:PHE:H	1.74	0.51
1:c:424:ASP:OD1	1:c:424:ASP:N	2.42	0.51
1:c:522:MET:HE2	1:c:570:ASP:HA	1.92	0.51
1:d:522:MET:HE2	1:d:570:ASP:HA	1.92	0.51
1:g:424:ASP:N	1:g:424:ASP:OD1	2.42	0.51
1:n:253:ARG:HH21	1:n:379:GLN:NE2	1.99	0.51
1:n:522:MET:HE2	1:n:570:ASP:HA	1.92	0.51
1:o:522:MET:HE2	1:o:570:ASP:HA	1.92	0.51
1:s:542:PRO:HG3	1:s:721:PRO:HA	1.91	0.51
1:5:542:PRO:HG3	1:5:721:PRO:HA	1.91	0.51
1:6:424:ASP:OD1	1:6:424:ASP:N	2.42	0.51
1:7:618:LYS:HB2	1:7:640:PRO:HG3	1.91	0.51
1:C:542:PRO:HG3	1:C:721:PRO:HA	1.91	0.51
1:E:342:PRO:HB3	1:F:421:GLN:NE2	2.25	0.51
1:F:424:ASP:OD1	1:F:424:ASP:N	2.42	0.51
1:G:415:SER:OG	1:I:623:ASP:OD1	2.28	0.51
1:I:542:PRO:HG3	1:I:721:PRO:HA	1.91	0.51
1:J:446:THR:HG23	1:J:449:GLN:HB2	1.91	0.51
1:N:446:THR:HG23	1:N:449:GLN:HB2	1.91	0.51
1:P:522:MET:HE2	1:P:570:ASP:HA	1.92	0.51
1:R:253:ARG:HH21	1:R:379:GLN:NE2	1.99	0.51
1:R:421:GLN:HE22	1:S:342:PRO:HB3	1.74	0.51
1:T:342:PRO:HB3	1:l:421:GLN:NE2	2.26	0.51
1:V:253:ARG:HH21	1:V:379:GLN:NE2	1.98	0.51
1:V:342:PRO:HB3	1:X:421:GLN:NE2	2.26	0.51
1:X:658:THR:HG22	1:X:659:PHE:H	1.74	0.51
1:c:421:GLN:NE2	1:o:342:PRO:HB3	2.25	0.51
1:e:522:MET:HE2	1:e:570:ASP:HA	1.92	0.51
1:m:522:MET:HE2	1:m:570:ASP:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:658:THR:HG22	1:o:659:PHE:H	1.74	0.51
1:q:421:GLN:HE22	1:r:342:PRO:HB3	1.74	0.51
1:r:522:MET:HE2	1:r:570:ASP:HA	1.92	0.51
1:t:498:ASN:OD1	1:t:502:LYS:NZ	2.40	0.51
1:t:522:MET:HE2	1:t:570:ASP:HA	1.92	0.51
1:y:424:ASP:OD1	1:y:424:ASP:N	2.42	0.51
1:2:618:LYS:HB2	1:2:640:PRO:HG3	1.91	0.51
1:5:421:GLN:NE2	1:6:342:PRO:HB3	2.26	0.51
1:6:525:ALA:O	1:6:559:SER:OG	2.18	0.51
1:A:522:MET:HE2	1:A:570:ASP:HA	1.92	0.51
1:C:424:ASP:OD1	1:C:424:ASP:N	2.42	0.51
1:D:623:ASP:OD1	1:P:415:SER:OG	2.28	0.51
1:G:522:MET:HE2	1:G:570:ASP:HA	1.92	0.51
1:H:421:GLN:NE2	1:W:342:PRO:HB3	2.26	0.51
1:I:424:ASP:OD1	1:I:424:ASP:N	2.42	0.51
1:X:342:PRO:HB3	1:e:421:GLN:NE2	2.25	0.51
1:Z:542:PRO:HG3	1:Z:721:PRO:HA	1.91	0.51
1:b:525:ALA:O	1:b:559:SER:OG	2.18	0.51
1:i:498:ASN:OD1	1:i:502:LYS:NZ	2.40	0.51
1:o:421:GLN:NE2	1:p:342:PRO:HB3	2.26	0.51
1:q:446:THR:HG23	1:q:449:GLN:HB2	1.91	0.51
1:3:658:THR:HG22	1:3:659:PHE:H	1.74	0.51
1:J:618:LYS:HB2	1:J:640:PRO:HG3	1.91	0.51
1:K:424:ASP:OD1	1:K:424:ASP:N	2.42	0.51
1:M:424:ASP:N	1:M:424:ASP:OD1	2.42	0.51
1:O:421:GLN:NE2	1:m:342:PRO:HB3	2.26	0.51
1:V:618:LYS:HB2	1:V:640:PRO:HG3	1.91	0.51
1:b:522:MET:HE2	1:b:570:ASP:HA	1.92	0.51
1:e:424:ASP:N	1:e:424:ASP:OD1	2.42	0.51
1:g:542:PRO:HG3	1:g:721:PRO:HA	1.91	0.51
1:u:542:PRO:HG3	1:u:721:PRO:HA	1.91	0.51
1:v:424:ASP:OD1	1:v:424:ASP:N	2.42	0.51
1:7:522:MET:HE2	1:7:570:ASP:HA	1.92	0.51
1:8:542:PRO:HG3	1:8:721:PRO:HA	1.91	0.51
1:B:342:PRO:HB3	1:L:421:GLN:NE2	2.26	0.51
1:B:618:LYS:HB2	1:B:640:PRO:HG3	1.91	0.51
1:N:498:ASN:OD1	1:N:502:LYS:NZ	2.40	0.51
1:O:342:PRO:HB3	1:n:421:GLN:NE2	2.25	0.51
1:R:446:THR:HG23	1:R:449:GLN:HB2	1.91	0.51
1:U:524:THR:HG1	1:U:560:GLU:H	1.56	0.51
1:W:498:ASN:OD1	1:W:502:LYS:NZ	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:424:ASP:N	1:Z:424:ASP:OD1	2.42	0.51
1:f:522:MET:HE2	1:f:570:ASP:HA	1.92	0.51
1:h:424:ASP:N	1:h:424:ASP:OD1	2.42	0.51
1:q:498:ASN:OD1	1:q:502:LYS:NZ	2.40	0.51
1:v:522:MET:HE2	1:v:570:ASP:HA	1.92	0.51
1:y:522:MET:HE2	1:y:570:ASP:HA	1.92	0.51
1:z:421:GLN:NE2	1:1:342:PRO:HB3	2.26	0.51
1:1:253:ARG:HH21	1:1:379:GLN:NE2	1.99	0.51
1:2:446:THR:HG23	1:2:449:GLN:HB2	1.91	0.51
1:8:424:ASP:OD1	1:8:424:ASP:N	2.42	0.51
1:J:421:GLN:NE2	1:L:342:PRO:HB3	2.25	0.50
1:V:415:SER:OG	1:e:623:ASP:OD1	2.28	0.50
1:c:542:PRO:HG3	1:c:721:PRO:HA	1.91	0.50
1:c:623:ASP:OD1	1:p:415:SER:OG	2.28	0.50
1:m:421:GLN:NE2	1:n:342:PRO:HB3	2.26	0.50
1:p:618:LYS:HB2	1:p:640:PRO:HG3	1.91	0.50
1:A:424:ASP:OD1	1:A:424:ASP:N	2.42	0.50
1:F:522:MET:HE2	1:F:570:ASP:HA	1.92	0.50
1:O:415:SER:OG	1:m:623:ASP:OD1	2.28	0.50
1:W:522:MET:HE2	1:W:570:ASP:HA	1.92	0.50
1:W:525:ALA:O	1:W:559:SER:OG	2.18	0.50
1:Y:522:MET:HE2	1:Y:570:ASP:HA	1.92	0.50
1:b:658:THR:HG22	1:b:659:PHE:H	1.75	0.50
1:d:421:GLN:NE2	1:l:342:PRO:HB3	2.25	0.50
1:e:542:PRO:HG3	1:e:721:PRO:HA	1.91	0.50
1:f:658:THR:HG22	1:f:659:PHE:H	1.75	0.50
1:p:253:ARG:HH21	1:p:379:GLN:NE2	1.98	0.50
1:r:424:ASP:N	1:r:424:ASP:OD1	2.42	0.50
1:1:618:LYS:HB2	1:1:640:PRO:HG3	1.91	0.50
1:4:424:ASP:N	1:4:424:ASP:OD1	2.42	0.50
1:6:498:ASN:OD1	1:6:502:LYS:NZ	2.40	0.50
1:6:522:MET:HE2	1:6:570:ASP:HA	1.92	0.50
1:B:253:ARG:HH21	1:B:379:GLN:NE2	1.99	0.50
1:B:424:ASP:N	1:B:424:ASP:OD1	2.42	0.50
1:K:342:PRO:HB3	1:8:421:GLN:NE2	2.26	0.50
1:R:498:ASN:OD1	1:R:502:LYS:NZ	2.40	0.50
1:T:421:GLN:NE2	1:d:342:PRO:HB3	2.26	0.50
1:T:623:ASP:OD1	1:l:415:SER:OG	2.28	0.50
1:V:522:MET:HE2	1:V:570:ASP:HA	1.92	0.50
1:Z:421:GLN:NE2	1:4:342:PRO:HB3	2.26	0.50
1:e:254:LEU:N	1:e:265:GLY:O	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:254:LEU:N	1:z:265:GLY:O	2.35	0.50
1:1:424:ASP:OD1	1:1:424:ASP:N	2.42	0.50
1:2:424:ASP:N	1:2:424:ASP:OD1	2.42	0.50
1:D:695:GLU:OE1	1:D:729:LEU:HD22	2.12	0.50
1:H:695:GLU:OE1	1:H:729:LEU:HD22	2.12	0.50
1:J:695:GLU:OE1	1:J:729:LEU:HD22	2.12	0.50
1:S:421:GLN:NE2	1:U:342:PRO:HB3	2.25	0.50
1:S:424:ASP:OD1	1:S:424:ASP:N	2.42	0.50
1:d:695:GLU:OE1	1:d:729:LEU:HD22	2.12	0.50
1:k:695:GLU:OE1	1:k:729:LEU:HD22	2.12	0.50
1:m:254:LEU:N	1:m:265:GLY:O	2.35	0.50
1:m:695:GLU:OE1	1:m:729:LEU:HD22	2.12	0.50
1:n:695:GLU:OE1	1:n:729:LEU:HD22	2.12	0.50
1:r:421:GLN:NE2	1:s:342:PRO:HB3	2.25	0.50
1:2:695:GLU:OE1	1:2:729:LEU:HD22	2.12	0.50
1:5:695:GLU:OE1	1:5:729:LEU:HD22	2.12	0.50
1:J:522:MET:HE2	1:J:570:ASP:HA	1.92	0.50
1:T:695:GLU:OE1	1:T:729:LEU:HD22	2.12	0.50
1:c:254:LEU:N	1:c:265:GLY:O	2.35	0.50
1:p:522:MET:HE2	1:p:570:ASP:HA	1.92	0.50
1:5:658:THR:HG22	1:5:659:PHE:H	1.74	0.50
1:C:415:SER:OG	1:b:623:ASP:OD1	2.28	0.50
1:D:525:ALA:O	1:D:559:SER:OG	2.18	0.50
1:G:695:GLU:OE1	1:G:729:LEU:HD22	2.12	0.50
1:J:424:ASP:N	1:J:424:ASP:OD1	2.42	0.50
1:K:415:SER:OG	1:a:623:ASP:OD1	2.28	0.50
1:Q:498:ASN:OD1	1:Q:502:LYS:NZ	2.40	0.50
1:g:522:MET:HE2	1:g:570:ASP:HA	1.92	0.50
1:l:695:GLU:OE1	1:l:729:LEU:HD22	2.12	0.50
1:m:498:ASN:OD1	1:m:502:LYS:NZ	2.40	0.50
1:x:498:ASN:OD1	1:x:502:LYS:NZ	2.40	0.50
1:z:342:PRO:HB3	1:2:421:GLN:NE2	2.26	0.50
1:1:254:LEU:N	1:1:265:GLY:O	2.35	0.50
1:2:522:MET:HE2	1:2:570:ASP:HA	1.92	0.50
1:3:623:ASP:OD1	1:4:415:SER:OG	2.28	0.50
1:C:421:GLN:NE2	1:b:342:PRO:HB3	2.26	0.50
1:E:570:ASP:OD1	1:E:571:THR:N	2.45	0.50
1:F:695:GLU:OE1	1:F:729:LEU:HD22	2.12	0.50
1:G:570:ASP:OD1	1:G:571:THR:N	2.45	0.50
1:H:658:THR:HG22	1:H:659:PHE:H	1.74	0.50
1:K:570:ASP:OD1	1:K:571:THR:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:254:LEU:N	1:L:265:GLY:O	2.35	0.50
1:O:695:GLU:OE1	1:O:729:LEU:HD22	2.12	0.50
1:S:695:GLU:OE1	1:S:729:LEU:HD22	2.12	0.50
1:f:342:PRO:HB3	1:g:421:GLN:NE2	2.26	0.50
1:j:695:GLU:OE1	1:j:729:LEU:HD22	2.12	0.50
1:m:253:ARG:HH21	1:m:379:GLN:NE2	1.99	0.50
1:r:254:LEU:N	1:r:265:GLY:O	2.35	0.50
1:t:570:ASP:OD1	1:t:571:THR:N	2.45	0.50
1:t:695:GLU:OE1	1:t:729:LEU:HD22	2.12	0.50
1:w:570:ASP:OD1	1:w:571:THR:N	2.45	0.50
1:5:253:ARG:HH21	1:5:379:GLN:NE2	1.99	0.50
1:B:695:GLU:OE1	1:B:729:LEU:HD22	2.12	0.50
1:C:522:MET:HE2	1:C:570:ASP:HA	1.92	0.50
1:C:695:GLU:OE1	1:C:729:LEU:HD22	2.12	0.50
1:J:253:ARG:HH21	1:J:379:GLN:NE2	1.99	0.50
1:O:570:ASP:OD1	1:O:571:THR:N	2.45	0.50
1:P:695:GLU:OE1	1:P:729:LEU:HD22	2.12	0.50
1:S:254:LEU:N	1:S:265:GLY:O	2.35	0.50
1:T:498:ASN:OD1	1:T:502:LYS:NZ	2.40	0.50
1:X:695:GLU:OE1	1:X:729:LEU:HD22	2.12	0.50
1:Z:570:ASP:OD1	1:Z:571:THR:N	2.45	0.50
1:r:695:GLU:OE1	1:r:729:LEU:HD22	2.12	0.50
1:y:695:GLU:OE1	1:y:729:LEU:HD22	2.12	0.50
1:1:695:GLU:OE1	1:1:729:LEU:HD22	2.12	0.50
1:4:570:ASP:OD1	1:4:571:THR:N	2.45	0.50
1:7:254:LEU:N	1:7:265:GLY:O	2.35	0.50
1:8:570:ASP:OD1	1:8:571:THR:N	2.45	0.50
1:B:570:ASP:OD1	1:B:571:THR:N	2.45	0.50
1:D:498:ASN:OD1	1:D:502:LYS:NZ	2.40	0.50
1:Q:570:ASP:OD1	1:Q:571:THR:N	2.45	0.50
1:V:695:GLU:OE1	1:V:729:LEU:HD22	2.12	0.50
1:Y:570:ASP:OD1	1:Y:571:THR:N	2.45	0.50
1:Z:576:GLN:HB3	1:Z:590:THR:HG22	1.94	0.50
1:g:695:GLU:OE1	1:g:729:LEU:HD22	2.12	0.50
1:h:570:ASP:OD1	1:h:571:THR:N	2.45	0.50
1:l:570:ASP:OD1	1:l:571:THR:N	2.45	0.50
1:n:570:ASP:OD1	1:n:571:THR:N	2.45	0.50
1:o:695:GLU:OE1	1:o:729:LEU:HD22	2.12	0.50
1:p:695:GLU:OE1	1:p:729:LEU:HD22	2.12	0.50
1:1:570:ASP:OD1	1:1:571:THR:N	2.45	0.50
1:6:695:GLU:OE1	1:6:729:LEU:HD22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:576:GLN:HB3	1:8:590:THR:HG22	1.94	0.50
1:C:254:LEU:N	1:C:265:GLY:O	2.35	0.49
1:L:570:ASP:OD1	1:L:571:THR:N	2.45	0.49
1:M:570:ASP:OD1	1:M:571:THR:N	2.45	0.49
1:V:525:ALA:O	1:V:559:SER:OG	2.18	0.49
1:W:695:GLU:OE1	1:W:729:LEU:HD22	2.12	0.49
1:Y:695:GLU:OE1	1:Y:729:LEU:HD22	2.12	0.49
1:d:570:ASP:OD1	1:d:571:THR:N	2.45	0.49
1:j:570:ASP:OD1	1:j:571:THR:N	2.45	0.49
1:l:576:GLN:HB3	1:l:590:THR:HG22	1.94	0.49
1:x:570:ASP:OD1	1:x:571:THR:N	2.45	0.49
1:1:498:ASN:OD1	1:1:502:LYS:NZ	2.40	0.49
1:7:570:ASP:OD1	1:7:571:THR:N	2.45	0.49
1:7:695:GLU:OE1	1:7:729:LEU:HD22	2.12	0.49
1:B:254:LEU:N	1:B:265:GLY:O	2.35	0.49
1:E:695:GLU:OE1	1:E:729:LEU:HD22	2.12	0.49
1:O:576:GLN:HB3	1:O:590:THR:HG22	1.94	0.49
1:P:570:ASP:OD1	1:P:571:THR:N	2.45	0.49
1:P:576:GLN:HB3	1:P:590:THR:HG22	1.94	0.49
1:T:253:ARG:HH21	1:T:379:GLN:NE2	1.99	0.49
1:a:253:ARG:NH2	1:a:379:GLN:HE22	2.00	0.49
1:h:576:GLN:HB3	1:h:590:THR:HG22	1.94	0.49
1:k:498:ASN:OD1	1:k:502:LYS:NZ	2.40	0.49
1:u:498:ASN:OD1	1:u:502:LYS:NZ	2.40	0.49
1:y:254:LEU:N	1:y:265:GLY:O	2.35	0.49
1:z:570:ASP:OD1	1:z:571:THR:N	2.45	0.49
1:z:695:GLU:OE1	1:z:729:LEU:HD22	2.12	0.49
1:H:253:ARG:HH21	1:H:379:GLN:NE2	1.99	0.49
1:I:498:ASN:OD1	1:I:502:LYS:NZ	2.40	0.49
1:I:695:GLU:OE1	1:I:729:LEU:HD22	2.12	0.49
1:M:576:GLN:HB3	1:M:590:THR:HG22	1.94	0.49
1:Q:695:GLU:OE1	1:Q:729:LEU:HD22	2.12	0.49
1:U:576:GLN:HB3	1:U:590:THR:HG22	1.95	0.49
1:Y:254:LEU:N	1:Y:265:GLY:O	2.35	0.49
1:j:576:GLN:HB3	1:j:590:THR:HG22	1.94	0.49
1:k:570:ASP:OD1	1:k:571:THR:N	2.45	0.49
1:p:570:ASP:OD1	1:p:571:THR:N	2.45	0.49
1:s:576:GLN:HB3	1:s:590:THR:HG22	1.95	0.49
1:w:695:GLU:OE1	1:w:729:LEU:HD22	2.12	0.49
1:x:576:GLN:HB3	1:x:590:THR:HG22	1.94	0.49
1:2:253:ARG:HH21	1:2:379:GLN:NE2	1.99	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:570:ASP:OD1	1:D:571:THR:N	2.45	0.49
1:K:695:GLU:OE1	1:K:729:LEU:HD22	2.12	0.49
1:L:695:GLU:OE1	1:L:729:LEU:HD22	2.12	0.49
1:N:253:ARG:HH21	1:N:379:GLN:NE2	1.99	0.49
1:Q:576:GLN:HB3	1:Q:590:THR:HG22	1.94	0.49
1:R:695:GLU:OE1	1:R:729:LEU:HD22	2.12	0.49
1:T:570:ASP:OD1	1:T:571:THR:N	2.45	0.49
1:U:695:GLU:OE1	1:U:729:LEU:HD22	2.12	0.49
1:V:576:GLN:HB3	1:V:590:THR:HG22	1.95	0.49
1:a:570:ASP:OD1	1:a:571:THR:N	2.45	0.49
1:m:570:ASP:OD1	1:m:571:THR:N	2.45	0.49
1:p:525:ALA:O	1:p:559:SER:OG	2.18	0.49
1:p:576:GLN:HB3	1:p:590:THR:HG22	1.95	0.49
1:u:570:ASP:OD1	1:u:571:THR:N	2.45	0.49
1:u:695:GLU:OE1	1:u:729:LEU:HD22	2.12	0.49
1:x:695:GLU:OE1	1:x:729:LEU:HD22	2.12	0.49
1:3:253:ARG:NH2	1:3:379:GLN:HE22	2.00	0.49
1:B:498:ASN:OD1	1:B:502:LYS:NZ	2.40	0.49
1:I:570:ASP:OD1	1:I:571:THR:N	2.45	0.49
1:J:572:ASP:OD1	1:J:573:MET:N	2.46	0.49
1:R:576:GLN:HB3	1:R:590:THR:HG22	1.94	0.49
1:c:695:GLU:OE1	1:c:729:LEU:HD22	2.12	0.49
1:h:498:ASN:OD1	1:h:502:LYS:NZ	2.40	0.49
1:i:253:ARG:HH21	1:i:379:GLN:NE2	1.99	0.49
1:n:576:GLN:HB3	1:n:590:THR:HG22	1.94	0.49
1:q:695:GLU:OE1	1:q:729:LEU:HD22	2.12	0.49
1:s:695:GLU:OE1	1:s:729:LEU:HD22	2.12	0.49
1:v:695:GLU:OE1	1:v:729:LEU:HD22	2.12	0.49
1:y:268:THR:OG1	1:y:366:TYR:O	2.24	0.49
1:z:433:GLN:HG3	1:z:467:TYR:CE1	2.48	0.49
1:1:433:GLN:HG3	1:1:467:TYR:CE1	2.48	0.49
1:2:572:ASP:OD1	1:2:573:MET:N	2.46	0.49
1:3:570:ASP:OD1	1:3:571:THR:N	2.45	0.49
1:3:695:GLU:OE1	1:3:729:LEU:HD22	2.12	0.49
1:4:433:GLN:HG3	1:4:467:TYR:CE1	2.48	0.49
1:4:695:GLU:OE1	1:4:729:LEU:HD22	2.12	0.49
1:A:695:GLU:OE1	1:A:729:LEU:HD22	2.12	0.49
1:B:433:GLN:HG3	1:B:467:TYR:CE1	2.48	0.49
1:D:576:GLN:HB3	1:D:590:THR:HG22	1.94	0.49
1:F:254:LEU:N	1:F:265:GLY:O	2.35	0.49
1:K:433:GLN:HG3	1:K:467:TYR:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:433:GLN:HG3	1:L:467:TYR:CE1	2.48	0.49
1:N:572:ASP:OD1	1:N:573:MET:N	2.46	0.49
1:N:695:GLU:OE1	1:N:729:LEU:HD22	2.12	0.49
1:U:570:ASP:OD1	1:U:571:THR:N	2.45	0.49
1:a:695:GLU:OE1	1:a:729:LEU:HD22	2.12	0.49
1:b:570:ASP:OD1	1:b:571:THR:N	2.45	0.49
1:e:695:GLU:OE1	1:e:729:LEU:HD22	2.12	0.49
1:g:254:LEU:N	1:g:265:GLY:O	2.35	0.49
1:k:576:GLN:HB3	1:k:590:THR:HG22	1.94	0.49
1:q:576:GLN:HB3	1:q:590:THR:HG22	1.94	0.49
1:t:576:GLN:HB3	1:t:590:THR:HG22	1.94	0.49
1:4:253:ARG:HH21	1:4:379:GLN:NE2	1.99	0.49
1:K:572:ASP:OD1	1:K:573:MET:N	2.46	0.49
1:S:576:GLN:HB3	1:S:590:THR:HG22	1.94	0.49
1:V:623:ASP:OD1	1:X:415:SER:OG	2.28	0.49
1:d:576:GLN:HB3	1:d:590:THR:HG22	1.94	0.49
1:f:570:ASP:OD1	1:f:571:THR:N	2.45	0.49
1:i:572:ASP:OD1	1:i:573:MET:N	2.46	0.49
1:i:623:ASP:OD1	1:k:415:SER:OG	2.29	0.49
1:i:695:GLU:OE1	1:i:729:LEU:HD22	2.12	0.49
1:r:576:GLN:HB3	1:r:590:THR:HG22	1.94	0.49
1:s:570:ASP:OD1	1:s:571:THR:N	2.45	0.49
1:4:572:ASP:OD1	1:4:573:MET:N	2.46	0.49
1:F:268:THR:OG1	1:F:366:TYR:O	2.24	0.49
1:G:576:GLN:HB3	1:G:590:THR:HG22	1.95	0.49
1:J:570:ASP:OD1	1:J:571:THR:N	2.45	0.49
1:N:433:GLN:HG3	1:N:467:TYR:CE1	2.48	0.49
1:O:498:ASN:OD1	1:O:502:LYS:NZ	2.40	0.49
1:V:570:ASP:OD1	1:V:571:THR:N	2.45	0.49
1:Z:433:GLN:HG3	1:Z:467:TYR:CE1	2.48	0.49
1:b:498:ASN:OD1	1:b:502:LYS:NZ	2.40	0.49
1:i:433:GLN:HG3	1:i:467:TYR:CE1	2.48	0.49
1:l:498:ASN:OD1	1:l:502:LYS:NZ	2.40	0.49
1:w:433:GLN:HG3	1:w:467:TYR:CE1	2.48	0.49
1:7:572:ASP:OD1	1:7:573:MET:N	2.46	0.49
1:F:570:ASP:OD1	1:F:571:THR:N	2.45	0.49
1:K:253:ARG:HH21	1:K:379:GLN:NE2	1.99	0.49
1:M:498:ASN:OD1	1:M:502:LYS:NZ	2.40	0.49
1:M:695:GLU:OE1	1:M:729:LEU:HD22	2.12	0.49
1:S:433:GLN:HG3	1:S:467:TYR:CE1	2.48	0.49
1:S:570:ASP:OD1	1:S:571:THR:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:572:ASP:OD1	1:U:573:MET:N	2.46	0.49
1:V:498:ASN:OD1	1:V:502:LYS:NZ	2.40	0.49
1:X:433:GLN:HG3	1:X:467:TYR:CE1	2.48	0.49
1:X:570:ASP:OD1	1:X:571:THR:N	2.45	0.49
1:Y:572:ASP:OD1	1:Y:573:MET:N	2.46	0.49
1:b:695:GLU:OE1	1:b:729:LEU:HD22	2.12	0.49
1:f:498:ASN:OD1	1:f:502:LYS:NZ	2.40	0.49
1:g:572:ASP:OD1	1:g:573:MET:N	2.46	0.49
1:o:415:SER:OG	1:p:623:ASP:OD1	2.28	0.49
1:o:433:GLN:HG3	1:o:467:TYR:CE1	2.48	0.49
1:o:570:ASP:OD1	1:o:571:THR:N	2.45	0.49
1:t:433:GLN:HG3	1:t:467:TYR:CE1	2.48	0.49
1:y:570:ASP:OD1	1:y:571:THR:N	2.45	0.49
1:2:570:ASP:OD1	1:2:571:THR:N	2.45	0.49
1:5:570:ASP:OD1	1:5:571:THR:N	2.45	0.49
1:8:433:GLN:HG3	1:8:467:TYR:CE1	2.48	0.49
1:8:572:ASP:OD1	1:8:573:MET:N	2.46	0.49
1:A:433:GLN:HG3	1:A:467:TYR:CE1	2.48	0.49
1:A:572:ASP:OD1	1:A:573:MET:N	2.46	0.49
1:C:433:GLN:HG3	1:C:467:TYR:CE1	2.48	0.49
1:C:572:ASP:OD1	1:C:573:MET:N	2.46	0.49
1:E:433:GLN:HG3	1:E:467:TYR:CE1	2.48	0.49
1:G:433:GLN:HG3	1:G:467:TYR:CE1	2.48	0.49
1:H:570:ASP:OD1	1:H:571:THR:N	2.45	0.49
1:J:458:LYS:NZ	1:L:350:GLU:OE2	2.44	0.49
1:R:433:GLN:HG3	1:R:467:TYR:CE1	2.48	0.49
1:Z:572:ASP:OD1	1:Z:573:MET:N	2.46	0.49
1:e:433:GLN:HG3	1:e:467:TYR:CE1	2.48	0.49
1:e:576:GLN:HB3	1:e:590:THR:HG22	1.94	0.49
1:f:695:GLU:OE1	1:f:729:LEU:HD22	2.12	0.49
1:g:433:GLN:HG3	1:g:467:TYR:CE1	2.48	0.49
1:i:576:GLN:HB3	1:i:590:THR:HG22	1.94	0.49
1:l:433:GLN:HG3	1:l:467:TYR:CE1	2.48	0.49
1:r:433:GLN:HG3	1:r:467:TYR:CE1	2.48	0.49
1:r:570:ASP:OD1	1:r:571:THR:N	2.45	0.49
1:s:572:ASP:OD1	1:s:573:MET:N	2.46	0.49
1:v:572:ASP:OD1	1:v:573:MET:N	2.46	0.49
1:8:498:ASN:OD1	1:8:502:LYS:NZ	2.40	0.49
1:A:570:ASP:OD1	1:A:571:THR:N	2.45	0.48
1:C:570:ASP:OD1	1:C:571:THR:N	2.45	0.48
1:P:433:GLN:HG3	1:P:467:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:433:GLN:HG3	1:T:467:TYR:CE1	2.48	0.48
1:V:433:GLN:HG3	1:V:467:TYR:CE1	2.48	0.48
1:Z:498:ASN:OD1	1:Z:502:LYS:NZ	2.40	0.48
1:c:433:GLN:HG3	1:c:467:TYR:CE1	2.48	0.48
1:f:433:GLN:HG3	1:f:467:TYR:CE1	2.48	0.48
1:h:695:GLU:OE1	1:h:729:LEU:HD22	2.12	0.48
1:j:254:LEU:N	1:j:265:GLY:O	2.35	0.48
1:n:268:THR:OG1	1:n:366:TYR:O	2.24	0.48
1:o:576:GLN:HB3	1:o:590:THR:HG22	1.94	0.48
1:q:433:GLN:HG3	1:q:467:TYR:CE1	2.48	0.48
1:q:570:ASP:OD1	1:q:571:THR:N	2.45	0.48
1:u:572:ASP:OD1	1:u:573:MET:N	2.46	0.48
1:z:350:GLU:OE2	1:2:458:LYS:NZ	2.45	0.48
1:6:433:GLN:HG3	1:6:467:TYR:CE1	2.48	0.48
1:8:695:GLU:OE1	1:8:729:LEU:HD22	2.12	0.48
1:B:415:SER:OG	1:J:623:ASP:OD1	2.28	0.48
1:M:433:GLN:HG3	1:M:467:TYR:CE1	2.48	0.48
1:O:433:GLN:HG3	1:O:467:TYR:CE1	2.48	0.48
1:R:570:ASP:OD1	1:R:571:THR:N	2.45	0.48
1:U:233:VAL:HG13	1:U:682:TRP:HB2	1.96	0.48
1:W:433:GLN:HG3	1:W:467:TYR:CE1	2.48	0.48
1:W:570:ASP:OD1	1:W:571:THR:N	2.45	0.48
1:X:576:GLN:HB3	1:X:590:THR:HG22	1.94	0.48
1:b:433:GLN:HG3	1:b:467:TYR:CE1	2.48	0.48
1:c:576:GLN:HB3	1:c:590:THR:HG22	1.94	0.48
1:d:433:GLN:HG3	1:d:467:TYR:CE1	2.48	0.48
1:g:570:ASP:OD1	1:g:571:THR:N	2.45	0.48
1:k:433:GLN:HG3	1:k:467:TYR:CE1	2.48	0.48
1:l:233:VAL:HG13	1:l:682:TRP:HB2	1.96	0.48
1:m:433:GLN:HG3	1:m:467:TYR:CE1	2.48	0.48
1:p:433:GLN:HG3	1:p:467:TYR:CE1	2.48	0.48
1:p:498:ASN:OD1	1:p:502:LYS:NZ	2.40	0.48
1:s:233:VAL:HG13	1:s:682:TRP:HB2	1.96	0.48
1:u:433:GLN:HG3	1:u:467:TYR:CE1	2.48	0.48
1:v:433:GLN:HG3	1:v:467:TYR:CE1	2.48	0.48
1:v:570:ASP:OD1	1:v:571:THR:N	2.45	0.48
1:5:433:GLN:HG3	1:5:467:TYR:CE1	2.48	0.48
1:F:576:GLN:HB3	1:F:590:THR:HG22	1.94	0.48
1:H:433:GLN:HG3	1:H:467:TYR:CE1	2.48	0.48
1:I:433:GLN:HG3	1:I:467:TYR:CE1	2.48	0.48
1:I:572:ASP:OD1	1:I:573:MET:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:233:VAL:HG13	1:N:682:TRP:HB2	1.96	0.48
1:N:576:GLN:HB3	1:N:590:THR:HG22	1.94	0.48
1:O:233:VAL:HG13	1:O:682:TRP:HB2	1.96	0.48
1:U:433:GLN:HG3	1:U:467:TYR:CE1	2.48	0.48
1:W:576:GLN:HB3	1:W:590:THR:HG22	1.94	0.48
1:Z:695:GLU:OE1	1:Z:729:LEU:HD22	2.12	0.48
1:a:576:GLN:HB3	1:a:590:THR:HG22	1.94	0.48
1:c:572:ASP:OD1	1:c:573:MET:N	2.46	0.48
1:d:233:VAL:HG13	1:d:682:TRP:HB2	1.96	0.48
1:h:433:GLN:HG3	1:h:467:TYR:CE1	2.48	0.48
1:i:570:ASP:OD1	1:i:571:THR:N	2.45	0.48
1:j:433:GLN:HG3	1:j:467:TYR:CE1	2.48	0.48
1:n:233:VAL:HG13	1:n:682:TRP:HB2	1.96	0.48
1:n:433:GLN:HG3	1:n:467:TYR:CE1	2.48	0.48
1:q:233:VAL:HG13	1:q:682:TRP:HB2	1.96	0.48
1:s:433:GLN:HG3	1:s:467:TYR:CE1	2.48	0.48
1:w:576:GLN:HB3	1:w:590:THR:HG22	1.95	0.48
1:y:433:GLN:HG3	1:y:467:TYR:CE1	2.48	0.48
1:3:576:GLN:HB3	1:3:590:THR:HG22	1.94	0.48
1:6:572:ASP:OD1	1:6:573:MET:N	2.46	0.48
1:E:576:GLN:HB3	1:E:590:THR:HG22	1.94	0.48
1:F:433:GLN:HG3	1:F:467:TYR:CE1	2.48	0.48
1:H:576:GLN:HB3	1:H:590:THR:HG22	1.94	0.48
1:I:233:VAL:HG13	1:I:682:TRP:HB2	1.96	0.48
1:M:233:VAL:HG13	1:M:682:TRP:HB2	1.96	0.48
1:R:233:VAL:HG13	1:R:682:TRP:HB2	1.96	0.48
1:T:233:VAL:HG13	1:T:682:TRP:HB2	1.96	0.48
1:W:572:ASP:OD1	1:W:573:MET:N	2.46	0.48
1:Y:576:GLN:HB3	1:Y:590:THR:HG22	1.94	0.48
1:c:570:ASP:OD1	1:c:571:THR:N	2.45	0.48
1:e:570:ASP:OD1	1:e:571:THR:N	2.45	0.48
1:e:572:ASP:OD1	1:e:573:MET:N	2.46	0.48
1:h:233:VAL:HG13	1:h:682:TRP:HB2	1.96	0.48
1:i:233:VAL:HG13	1:i:682:TRP:HB2	1.96	0.48
1:m:233:VAL:HG13	1:m:682:TRP:HB2	1.96	0.48
1:p:572:ASP:OD1	1:p:573:MET:N	2.46	0.48
1:u:233:VAL:HG13	1:u:682:TRP:HB2	1.96	0.48
1:y:576:GLN:HB3	1:y:590:THR:HG22	1.94	0.48
1:z:576:GLN:HB3	1:z:590:THR:HG22	1.94	0.48
1:6:570:ASP:OD1	1:6:571:THR:N	2.45	0.48
1:6:576:GLN:HB3	1:6:590:THR:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:233:VAL:HG13	1:7:682:TRP:HB2	1.96	0.48
1:A:233:VAL:HG13	1:A:682:TRP:HB2	1.96	0.48
1:C:576:GLN:HB3	1:C:590:THR:HG22	1.95	0.48
1:D:433:GLN:HG3	1:D:467:TYR:CE1	2.48	0.48
1:L:233:VAL:HG13	1:L:682:TRP:HB2	1.96	0.48
1:L:576:GLN:HB3	1:L:590:THR:HG22	1.95	0.48
1:N:570:ASP:OD1	1:N:571:THR:N	2.45	0.48
1:P:254:LEU:N	1:P:265:GLY:O	2.35	0.48
1:V:572:ASP:OD1	1:V:573:MET:N	2.46	0.48
1:Y:233:VAL:HG13	1:Y:682:TRP:HB2	1.96	0.48
1:j:714:THR:O	1:x:252:LEU:HD22	2.14	0.48
1:o:498:ASN:OD1	1:o:502:LYS:NZ	2.40	0.48
1:z:233:VAL:HG13	1:z:682:TRP:HB2	1.96	0.48
1:1:415:SER:OG	1:2:623:ASP:OD1	2.28	0.48
1:2:433:GLN:HG3	1:2:467:TYR:CE1	2.48	0.48
1:5:576:GLN:HB3	1:5:590:THR:HG22	1.94	0.48
1:I:277:ARG:NH2	1:I:279:HIS:HE1	2.12	0.48
1:J:433:GLN:HG3	1:J:467:TYR:CE1	2.48	0.48
1:K:576:GLN:HB3	1:K:590:THR:HG22	1.95	0.48
1:M:572:ASP:OD1	1:M:573:MET:N	2.46	0.48
1:U:277:ARG:NH2	1:U:279:HIS:HE1	2.12	0.48
1:g:576:GLN:HB3	1:g:590:THR:HG22	1.95	0.48
1:h:572:ASP:OD1	1:h:573:MET:N	2.46	0.48
1:j:277:ARG:NH2	1:j:279:HIS:HE1	2.12	0.48
1:s:277:ARG:NH2	1:s:279:HIS:HE1	2.12	0.48
1:v:233:VAL:HG13	1:v:682:TRP:HB2	1.96	0.48
1:7:576:GLN:HB3	1:7:590:THR:HG22	1.94	0.48
1:A:277:ARG:NH2	1:A:279:HIS:HE1	2.12	0.48
1:C:277:ARG:NH2	1:C:279:HIS:HE1	2.12	0.48
1:O:348:GLY:O	1:n:433:GLN:HG2	2.14	0.48
1:P:277:ARG:NH2	1:P:279:HIS:HE1	2.12	0.48
1:Q:433:GLN:HG3	1:Q:467:TYR:CE1	2.48	0.48
1:S:277:ARG:NH2	1:S:279:HIS:HE1	2.12	0.48
1:X:572:ASP:OD1	1:X:573:MET:N	2.46	0.48
1:Y:433:GLN:HG3	1:Y:467:TYR:CE1	2.48	0.48
1:a:433:GLN:HG3	1:a:467:TYR:CE1	2.48	0.48
1:b:253:ARG:HH21	1:b:379:GLN:NE2	1.99	0.48
1:b:576:GLN:HB3	1:b:590:THR:HG22	1.94	0.48
1:i:452:ALA:HB2	1:j:491:LYS:HE2	1.96	0.48
1:q:276:ASN:OD1	1:q:615:ILE:N	2.46	0.48
1:u:277:ARG:NH2	1:u:279:HIS:HE1	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:433:GLN:HG3	1:x:467:TYR:CE1	2.48	0.48
1:4:576:GLN:HB3	1:4:590:THR:HG22	1.95	0.48
1:E:233:VAL:HG13	1:E:682:TRP:HB2	1.96	0.48
1:E:281:HIS:HE1	1:E:678:VAL:HG11	1.79	0.48
1:G:253:ARG:NH2	1:G:379:GLN:HE22	2.00	0.48
1:L:277:ARG:NH2	1:L:279:HIS:HE1	2.12	0.48
1:N:714:THR:O	1:m:252:LEU:HD22	2.14	0.48
1:P:466:PHE:O	1:P:468:ARG:NH1	2.47	0.48
1:T:277:ARG:NH2	1:T:279:HIS:HE1	2.12	0.48
1:Y:466:PHE:O	1:Y:468:ARG:NH1	2.47	0.48
1:f:576:GLN:HB3	1:f:590:THR:HG22	1.94	0.48
1:g:277:ARG:NH2	1:g:279:HIS:HE1	2.12	0.48
1:l:281:HIS:HE1	1:l:678:VAL:HG11	1.79	0.48
1:l:572:ASP:OD1	1:l:573:MET:N	2.46	0.48
1:m:277:ARG:NH2	1:m:279:HIS:HE1	2.12	0.48
1:n:277:ARG:NH2	1:n:279:HIS:HE1	2.12	0.48
1:o:233:VAL:HG13	1:o:682:TRP:HB2	1.96	0.48
1:p:466:PHE:O	1:p:468:ARG:NH1	2.47	0.48
1:r:277:ARG:NH2	1:r:279:HIS:HE1	2.12	0.48
1:u:576:GLN:HB3	1:u:590:THR:HG22	1.94	0.48
1:v:277:ARG:NH2	1:v:279:HIS:HE1	2.12	0.48
1:w:276:ASN:OD1	1:w:615:ILE:N	2.46	0.48
1:w:281:HIS:HE1	1:w:678:VAL:HG11	1.79	0.48
1:z:277:ARG:NH2	1:z:279:HIS:HE1	2.12	0.48
1:z:281:HIS:HE1	1:z:678:VAL:HG11	1.79	0.48
1:7:433:GLN:HG3	1:7:467:TYR:CE1	2.48	0.48
1:7:466:PHE:O	1:7:468:ARG:NH1	2.47	0.48
1:C:281:HIS:HE1	1:C:678:VAL:HG11	1.79	0.48
1:F:233:VAL:HG13	1:F:682:TRP:HB2	1.96	0.48
1:F:623:ASP:OD1	1:Q:415:SER:OG	2.28	0.48
1:G:277:ARG:NH2	1:G:279:HIS:HE1	2.12	0.48
1:L:281:HIS:HE1	1:L:678:VAL:HG11	1.79	0.48
1:O:281:HIS:HE1	1:O:678:VAL:HG11	1.79	0.48
1:O:572:ASP:OD1	1:O:573:MET:N	2.46	0.48
1:R:276:ASN:OD1	1:R:615:ILE:N	2.46	0.48
1:T:466:PHE:O	1:T:468:ARG:NH1	2.47	0.48
1:V:466:PHE:O	1:V:468:ARG:NH1	2.47	0.48
1:X:233:VAL:HG13	1:X:682:TRP:HB2	1.96	0.48
1:X:277:ARG:NH2	1:X:279:HIS:HE1	2.12	0.48
1:X:498:ASN:OD1	1:X:502:LYS:NZ	2.40	0.48
1:Z:277:ARG:NH2	1:Z:279:HIS:HE1	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:466:PHE:O	1:c:468:ARG:NH1	2.47	0.48
1:d:277:ARG:NH2	1:d:279:HIS:HE1	2.12	0.48
1:d:433:GLN:HG2	1:l:348:GLY:O	2.14	0.48
1:e:466:PHE:O	1:e:468:ARG:NH1	2.47	0.48
1:g:281:HIS:HE1	1:g:678:VAL:HG11	1.79	0.48
1:j:466:PHE:O	1:j:468:ARG:NH1	2.47	0.48
1:o:277:ARG:NH2	1:o:279:HIS:HE1	2.12	0.48
1:o:572:ASP:OD1	1:o:573:MET:N	2.46	0.48
1:w:233:VAL:HG13	1:w:682:TRP:HB2	1.96	0.48
1:3:433:GLN:HG3	1:3:467:TYR:CE1	2.48	0.48
1:4:466:PHE:O	1:4:468:ARG:NH1	2.47	0.48
1:5:466:PHE:O	1:5:468:ARG:NH1	2.47	0.48
1:8:277:ARG:NH2	1:8:279:HIS:HE1	2.12	0.48
1:A:576:GLN:HB3	1:A:590:THR:HG22	1.94	0.48
1:B:576:GLN:HB3	1:B:590:THR:HG22	1.94	0.48
1:D:277:ARG:NH2	1:D:279:HIS:HE1	2.12	0.48
1:E:415:SER:OG	1:Q:623:ASP:OD1	2.28	0.48
1:F:281:HIS:HE1	1:F:678:VAL:HG11	1.79	0.48
1:H:466:PHE:O	1:H:468:ARG:NH1	2.47	0.48
1:I:576:GLN:HB3	1:I:590:THR:HG22	1.95	0.48
1:J:233:VAL:HG13	1:J:682:TRP:HB2	1.96	0.48
1:K:466:PHE:O	1:K:468:ARG:NH1	2.47	0.48
1:O:277:ARG:NH2	1:O:279:HIS:HE1	2.12	0.48
1:S:466:PHE:O	1:S:468:ARG:NH1	2.47	0.48
1:S:525:ALA:O	1:S:559:SER:OG	2.18	0.48
1:T:252:LEU:HD22	1:i:714:THR:O	2.14	0.48
1:T:572:ASP:OD1	1:T:573:MET:N	2.46	0.48
1:T:576:GLN:HB3	1:T:590:THR:HG22	1.95	0.48
1:X:466:PHE:O	1:X:468:ARG:NH1	2.47	0.48
1:b:466:PHE:O	1:b:468:ARG:NH1	2.47	0.48
1:c:281:HIS:HE1	1:c:678:VAL:HG11	1.79	0.48
1:f:466:PHE:O	1:f:468:ARG:NH1	2.47	0.48
1:k:277:ARG:NH2	1:k:279:HIS:HE1	2.12	0.48
1:m:466:PHE:O	1:m:468:ARG:NH1	2.47	0.48
1:m:576:GLN:HB3	1:m:590:THR:HG22	1.95	0.48
1:o:466:PHE:O	1:o:468:ARG:NH1	2.47	0.48
1:t:277:ARG:NH2	1:t:279:HIS:HE1	2.12	0.48
1:v:466:PHE:O	1:v:468:ARG:NH1	2.47	0.48
1:y:233:VAL:HG13	1:y:682:TRP:HB2	1.96	0.48
1:1:576:GLN:HB3	1:1:590:THR:HG22	1.94	0.48
1:3:281:HIS:HE1	1:3:678:VAL:HG11	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:233:VAL:HG13	1:6:682:TRP:HB2	1.96	0.48
1:A:466:PHE:O	1:A:468:ARG:NH1	2.47	0.47
1:B:466:PHE:O	1:B:468:ARG:NH1	2.47	0.47
1:E:276:ASN:OD1	1:E:615:ILE:N	2.46	0.47
1:K:252:LEU:HD22	1:7:714:THR:O	2.14	0.47
1:N:281:HIS:HE1	1:N:678:VAL:HG11	1.79	0.47
1:R:277:ARG:NH2	1:R:279:HIS:HE1	2.12	0.47
1:R:466:PHE:O	1:R:468:ARG:NH1	2.47	0.47
1:T:281:HIS:HE1	1:T:678:VAL:HG11	1.79	0.47
1:W:233:VAL:HG13	1:W:682:TRP:HB2	1.96	0.47
1:W:466:PHE:O	1:W:468:ARG:NH1	2.47	0.47
1:a:466:PHE:O	1:a:468:ARG:NH1	2.47	0.47
1:e:281:HIS:HE1	1:e:678:VAL:HG11	1.79	0.47
1:f:233:VAL:HG13	1:f:682:TRP:HB2	1.96	0.47
1:f:253:ARG:HH21	1:f:379:GLN:NE2	1.99	0.47
1:l:277:ARG:NH2	1:l:279:HIS:HE1	2.12	0.47
1:m:281:HIS:HE1	1:m:678:VAL:HG11	1.79	0.47
1:m:572:ASP:OD1	1:m:573:MET:N	2.46	0.47
1:q:466:PHE:O	1:q:468:ARG:NH1	2.47	0.47
1:r:466:PHE:O	1:r:468:ARG:NH1	2.47	0.47
1:s:281:HIS:HE1	1:s:678:VAL:HG11	1.79	0.47
1:t:253:ARG:NH2	1:t:379:GLN:HE22	2.00	0.47
1:t:276:ASN:OD1	1:t:615:ILE:N	2.46	0.47
1:v:576:GLN:HB3	1:v:590:THR:HG22	1.94	0.47
1:y:281:HIS:HE1	1:y:678:VAL:HG11	1.79	0.47
1:3:466:PHE:O	1:3:468:ARG:NH1	2.47	0.47
1:6:466:PHE:O	1:6:468:ARG:NH1	2.47	0.47
1:7:277:ARG:NH2	1:7:279:HIS:HE1	2.12	0.47
1:A:253:ARG:NH2	1:A:379:GLN:HE22	2.00	0.47
1:A:415:SER:OG	1:G:623:ASP:OD1	2.28	0.47
1:B:233:VAL:HG13	1:B:682:TRP:HB2	1.96	0.47
1:F:466:PHE:O	1:F:468:ARG:NH1	2.47	0.47
1:I:253:ARG:NH2	1:I:379:GLN:HE22	2.00	0.47
1:J:247:ASN:OD1	1:J:365:GLN:NE2	2.48	0.47
1:U:247:ASN:OD1	1:U:365:GLN:NE2	2.48	0.47
1:U:281:HIS:HE1	1:U:678:VAL:HG11	1.79	0.47
1:V:247:ASN:OD1	1:V:365:GLN:NE2	2.48	0.47
1:Y:277:ARG:NH2	1:Y:279:HIS:HE1	2.12	0.47
1:Y:714:THR:O	1:4:252:LEU:HD22	2.14	0.47
1:Z:247:ASN:OD1	1:Z:365:GLN:NE2	2.48	0.47
1:b:233:VAL:HG13	1:b:682:TRP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:281:HIS:HE1	1:b:678:VAL:HG11	1.79	0.47
1:i:276:ASN:OD1	1:i:615:ILE:N	2.46	0.47
1:i:277:ARG:NH2	1:i:279:HIS:HE1	2.12	0.47
1:n:247:ASN:OD1	1:n:365:GLN:NE2	2.48	0.47
1:p:247:ASN:OD1	1:p:365:GLN:NE2	2.48	0.47
1:q:277:ARG:NH2	1:q:279:HIS:HE1	2.12	0.47
1:x:415:SER:OG	1:y:623:ASP:OD1	2.28	0.47
1:y:466:PHE:O	1:y:468:ARG:NH1	2.47	0.47
1:1:233:VAL:HG13	1:1:682:TRP:HB2	1.96	0.47
1:1:466:PHE:O	1:1:468:ARG:NH1	2.47	0.47
1:2:233:VAL:HG13	1:2:682:TRP:HB2	1.96	0.47
1:2:247:ASN:OD1	1:2:365:GLN:NE2	2.48	0.47
1:8:247:ASN:OD1	1:8:365:GLN:NE2	2.48	0.47
1:E:466:PHE:O	1:E:468:ARG:NH1	2.47	0.47
1:G:276:ASN:OD1	1:G:615:ILE:N	2.46	0.47
1:G:281:HIS:HE1	1:G:678:VAL:HG11	1.79	0.47
1:I:466:PHE:O	1:I:468:ARG:NH1	2.47	0.47
1:J:466:PHE:O	1:J:468:ARG:NH1	2.47	0.47
1:M:276:ASN:OD1	1:M:615:ILE:N	2.46	0.47
1:N:276:ASN:OD1	1:N:615:ILE:N	2.46	0.47
1:Q:247:ASN:OD1	1:Q:365:GLN:NE2	2.48	0.47
1:R:349:GLN:OE1	1:U:428:ASN:HB3	2.15	0.47
1:V:348:GLY:O	1:X:433:GLN:HG2	2.15	0.47
1:Z:281:HIS:HE1	1:Z:678:VAL:HG11	1.79	0.47
1:a:281:HIS:HE1	1:a:678:VAL:HG11	1.79	0.47
1:d:247:ASN:OD1	1:d:365:GLN:NE2	2.48	0.47
1:f:281:HIS:HE1	1:f:678:VAL:HG11	1.79	0.47
1:h:276:ASN:OD1	1:h:615:ILE:N	2.46	0.47
1:i:281:HIS:HE1	1:i:678:VAL:HG11	1.79	0.47
1:n:466:PHE:O	1:n:468:ARG:NH1	2.47	0.47
1:o:433:GLN:HG2	1:p:348:GLY:O	2.15	0.47
1:q:349:GLN:OE1	1:s:428:ASN:HB3	2.15	0.47
1:s:247:ASN:OD1	1:s:365:GLN:NE2	2.48	0.47
1:s:253:ARG:NH2	1:s:379:GLN:HE22	2.00	0.47
1:t:281:HIS:HE1	1:t:678:VAL:HG11	1.79	0.47
1:t:466:PHE:O	1:t:468:ARG:NH1	2.47	0.47
1:v:253:ARG:NH2	1:v:379:GLN:HE22	2.00	0.47
1:w:466:PHE:O	1:w:468:ARG:NH1	2.47	0.47
1:x:247:ASN:OD1	1:x:365:GLN:NE2	2.48	0.47
1:x:466:PHE:O	1:x:468:ARG:NH1	2.47	0.47
1:z:349:GLN:OE1	1:2:428:ASN:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:466:PHE:O	1:2:468:ARG:NH1	2.47	0.47
1:2:576:GLN:HB3	1:2:590:THR:HG22	1.94	0.47
1:7:281:HIS:HE1	1:7:678:VAL:HG11	1.79	0.47
1:A:281:HIS:HE1	1:A:678:VAL:HG11	1.79	0.47
1:B:277:ARG:NH2	1:B:279:HIS:HE1	2.12	0.47
1:C:348:GLY:O	1:M:433:GLN:HG2	2.15	0.47
1:G:433:GLN:HG2	1:I:348:GLY:O	2.15	0.47
1:H:433:GLN:HG2	1:W:348:GLY:O	2.15	0.47
1:M:466:PHE:O	1:M:468:ARG:NH1	2.47	0.47
1:N:277:ARG:NH2	1:N:279:HIS:HE1	2.12	0.47
1:O:414:HIS:HB2	1:O:635:PHE:CE1	2.50	0.47
1:P:247:ASN:OD1	1:P:365:GLN:NE2	2.48	0.47
1:Q:466:PHE:O	1:Q:468:ARG:NH1	2.47	0.47
1:R:281:HIS:HE1	1:R:678:VAL:HG11	1.79	0.47
1:S:247:ASN:OD1	1:S:365:GLN:NE2	2.48	0.47
1:T:247:ASN:OD1	1:T:365:GLN:NE2	2.48	0.47
1:X:247:ASN:OD1	1:X:365:GLN:NE2	2.48	0.47
1:Y:281:HIS:HE1	1:Y:678:VAL:HG11	1.79	0.47
1:a:277:ARG:NH2	1:a:279:HIS:HE1	2.12	0.47
1:d:466:PHE:O	1:d:468:ARG:NH1	2.47	0.47
1:g:348:GLY:O	1:h:433:GLN:HG2	2.15	0.47
1:h:466:PHE:O	1:h:468:ARG:NH1	2.47	0.47
1:l:414:HIS:HB2	1:l:635:PHE:CE1	2.50	0.47
1:l:466:PHE:O	1:l:468:ARG:NH1	2.47	0.47
1:m:247:ASN:OD1	1:m:365:GLN:NE2	2.48	0.47
1:q:281:HIS:HE1	1:q:678:VAL:HG11	1.79	0.47
1:r:247:ASN:OD1	1:r:365:GLN:NE2	2.48	0.47
1:t:433:GLN:HG2	1:u:348:GLY:O	2.15	0.47
1:u:466:PHE:O	1:u:468:ARG:NH1	2.47	0.47
1:v:281:HIS:HE1	1:v:678:VAL:HG11	1.79	0.47
1:v:288:GLN:NE2	1:v:698:PHE:O	2.47	0.47
1:x:288:GLN:NE2	1:x:698:PHE:O	2.47	0.47
1:y:277:ARG:NH2	1:y:279:HIS:HE1	2.12	0.47
1:1:277:ARG:NH2	1:1:279:HIS:HE1	2.12	0.47
1:3:277:ARG:NH2	1:3:279:HIS:HE1	2.12	0.47
1:5:433:GLN:HG2	1:6:348:GLY:O	2.15	0.47
1:8:281:HIS:HE1	1:8:678:VAL:HG11	1.79	0.47
1:A:414:HIS:HB2	1:A:635:PHE:CE1	2.50	0.47
1:B:348:GLY:O	1:L:433:GLN:HG2	2.15	0.47
1:C:349:GLN:OE1	1:M:428:ASN:HB3	2.15	0.47
1:D:433:GLN:HG2	1:N:348:GLY:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:466:PHE:O	1:D:468:ARG:NH1	2.47	0.47
1:E:349:GLN:OE1	1:F:428:ASN:HB3	2.15	0.47
1:E:428:ASN:HB3	1:Q:349:GLN:OE1	2.15	0.47
1:E:433:GLN:HG2	1:Q:348:GLY:O	2.15	0.47
1:F:277:ARG:NH2	1:F:279:HIS:HE1	2.12	0.47
1:G:414:HIS:HB2	1:G:635:PHE:CE1	2.50	0.47
1:G:466:PHE:O	1:G:468:ARG:NH1	2.47	0.47
1:G:572:ASP:OD1	1:G:573:MET:N	2.46	0.47
1:H:277:ARG:NH2	1:H:279:HIS:HE1	2.12	0.47
1:I:380:THR:H	1:I:383:ASN:ND2	2.13	0.47
1:J:576:GLN:HB3	1:J:590:THR:HG22	1.94	0.47
1:K:277:ARG:NH2	1:K:279:HIS:HE1	2.12	0.47
1:L:466:PHE:O	1:L:468:ARG:NH1	2.47	0.47
1:O:466:PHE:O	1:O:468:ARG:NH1	2.47	0.47
1:Q:572:ASP:OD1	1:Q:573:MET:N	2.46	0.47
1:S:281:HIS:HE1	1:S:678:VAL:HG11	1.79	0.47
1:U:253:ARG:NH2	1:U:379:GLN:HE22	2.00	0.47
1:b:277:ARG:NH2	1:b:279:HIS:HE1	2.12	0.47
1:d:414:HIS:HB2	1:d:635:PHE:CE1	2.50	0.47
1:g:349:GLN:OE1	1:h:428:ASN:HB3	2.15	0.47
1:h:281:HIS:HE1	1:h:678:VAL:HG11	1.79	0.47
1:j:247:ASN:OD1	1:j:365:GLN:NE2	2.48	0.47
1:n:414:HIS:HB2	1:n:635:PHE:CE1	2.50	0.47
1:o:247:ASN:OD1	1:o:365:GLN:NE2	2.48	0.47
1:r:281:HIS:HE1	1:r:678:VAL:HG11	1.79	0.47
1:t:414:HIS:HB2	1:t:635:PHE:CE1	2.50	0.47
1:t:623:ASP:OD1	1:v:415:SER:OG	2.28	0.47
1:u:253:ARG:NH2	1:u:379:GLN:HE22	2.00	0.47
1:u:380:THR:H	1:u:383:ASN:ND2	2.13	0.47
1:v:414:HIS:HB2	1:v:635:PHE:CE1	2.50	0.47
1:w:349:GLN:OE1	1:y:428:ASN:HB3	2.15	0.47
1:w:433:GLN:HG2	1:x:348:GLY:O	2.15	0.47
1:z:466:PHE:O	1:z:468:ARG:NH1	2.47	0.47
1:4:277:ARG:NH2	1:4:279:HIS:HE1	2.12	0.47
1:4:380:THR:H	1:4:383:ASN:ND2	2.13	0.47
1:5:277:ARG:NH2	1:5:279:HIS:HE1	2.12	0.47
1:B:281:HIS:HE1	1:B:678:VAL:HG11	1.79	0.47
1:B:433:GLN:HG2	1:J:348:GLY:O	2.15	0.47
1:C:247:ASN:OD1	1:C:365:GLN:NE2	2.48	0.47
1:C:466:PHE:O	1:C:468:ARG:NH1	2.47	0.47
1:E:414:HIS:HB2	1:E:635:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:380:THR:H	1:F:383:ASN:ND2	2.13	0.47
1:G:233:VAL:HG13	1:G:682:TRP:HB2	1.96	0.47
1:G:253:ARG:HH21	1:G:379:GLN:NE2	1.99	0.47
1:J:254:LEU:N	1:J:265:GLY:O	2.35	0.47
1:J:428:ASN:HB3	1:L:349:GLN:OE1	2.15	0.47
1:K:380:THR:H	1:K:383:ASN:ND2	2.13	0.47
1:L:247:ASN:OD1	1:L:365:GLN:NE2	2.48	0.47
1:L:414:HIS:HB2	1:L:635:PHE:CE1	2.50	0.47
1:M:380:THR:H	1:M:383:ASN:ND2	2.13	0.47
1:N:247:ASN:OD1	1:N:365:GLN:NE2	2.48	0.47
1:O:428:ASN:HB3	1:m:349:GLN:OE1	2.15	0.47
1:Q:414:HIS:HB2	1:Q:635:PHE:CE1	2.50	0.47
1:R:348:GLY:O	1:U:433:GLN:HG2	2.15	0.47
1:T:349:GLN:OE1	1:l:428:ASN:HB3	2.15	0.47
1:X:414:HIS:HB2	1:X:635:PHE:CE1	2.50	0.47
1:Z:348:GLY:O	1:3:433:GLN:HG2	2.14	0.47
1:b:572:ASP:OD1	1:b:573:MET:N	2.46	0.47
1:c:247:ASN:OD1	1:c:365:GLN:NE2	2.48	0.47
1:d:428:ASN:HB3	1:l:349:GLN:OE1	2.15	0.47
1:f:277:ARG:NH2	1:f:279:HIS:HE1	2.12	0.47
1:g:466:PHE:O	1:g:468:ARG:NH1	2.47	0.47
1:h:380:THR:H	1:h:383:ASN:ND2	2.13	0.47
1:i:247:ASN:OD1	1:i:365:GLN:NE2	2.48	0.47
1:i:466:PHE:O	1:i:468:ARG:NH1	2.47	0.47
1:k:466:PHE:O	1:k:468:ARG:NH1	2.47	0.47
1:o:414:HIS:HB2	1:o:635:PHE:CE1	2.50	0.47
1:p:233:VAL:HG13	1:p:682:TRP:HB2	1.96	0.47
1:q:253:ARG:NH2	1:q:379:GLN:HE22	2.00	0.47
1:q:348:GLY:O	1:s:433:GLN:HG2	2.15	0.47
1:q:433:GLN:HG2	1:r:348:GLY:O	2.15	0.47
1:r:525:ALA:O	1:r:559:SER:OG	2.18	0.47
1:x:414:HIS:HB2	1:x:635:PHE:CE1	2.50	0.47
1:x:572:ASP:OD1	1:x:573:MET:N	2.46	0.47
1:y:276:ASN:OD1	1:y:615:ILE:N	2.46	0.47
1:y:380:THR:H	1:y:383:ASN:ND2	2.13	0.47
1:z:414:HIS:HB2	1:z:635:PHE:CE1	2.50	0.47
1:2:277:ARG:NH2	1:2:279:HIS:HE1	2.12	0.47
1:3:380:THR:H	1:3:383:ASN:ND2	2.13	0.47
1:7:691:ARG:HD3	1:7:695:GLU:HG3	1.97	0.47
1:A:380:THR:H	1:A:383:ASN:ND2	2.13	0.47
1:A:558:THR:HG23	1:A:610:TYR:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:428:ASN:HB3	1:J:349:GLN:OE1	2.15	0.47
1:C:380:THR:H	1:C:383:ASN:ND2	2.13	0.47
1:C:691:ARG:HD3	1:C:695:GLU:HG3	1.97	0.47
1:D:281:HIS:HE1	1:D:678:VAL:HG11	1.79	0.47
1:D:288:GLN:NE2	1:D:698:PHE:O	2.47	0.47
1:E:247:ASN:OD1	1:E:365:GLN:NE2	2.48	0.47
1:F:276:ASN:OD1	1:F:615:ILE:N	2.46	0.47
1:F:348:GLY:O	1:Q:433:GLN:HG2	2.15	0.47
1:H:233:VAL:HG13	1:H:682:TRP:HB2	1.96	0.47
1:H:349:GLN:HE21	1:Y:467:TYR:HE1	1.63	0.47
1:H:414:HIS:HB2	1:H:635:PHE:CE1	2.50	0.47
1:I:247:ASN:OD1	1:I:365:GLN:NE2	2.48	0.47
1:J:277:ARG:NH2	1:J:279:HIS:HE1	2.12	0.47
1:J:414:HIS:HB2	1:J:635:PHE:CE1	2.50	0.47
1:J:433:GLN:HG2	1:L:348:GLY:O	2.15	0.47
1:K:233:VAL:HG13	1:K:682:TRP:HB2	1.96	0.47
1:K:349:GLN:OE1	1:8:428:ASN:HB3	2.15	0.47
1:M:281:HIS:HE1	1:M:678:VAL:HG11	1.79	0.47
1:M:558:THR:HG23	1:M:610:TYR:CZ	2.50	0.47
1:N:466:PHE:O	1:N:468:ARG:NH1	2.47	0.47
1:N:467:TYR:HE1	1:P:349:GLN:HE21	1.63	0.47
1:O:240:THR:O	1:O:360:VAL:HG23	2.15	0.47
1:O:349:GLN:OE1	1:n:428:ASN:HB3	2.15	0.47
1:P:233:VAL:HG13	1:P:682:TRP:HB2	1.96	0.47
1:P:691:ARG:HD3	1:P:695:GLU:HG3	1.97	0.47
1:Q:558:THR:HG23	1:Q:610:TYR:CZ	2.50	0.47
1:R:247:ASN:OD1	1:R:365:GLN:NE2	2.48	0.47
1:R:428:ASN:HB3	1:S:349:GLN:OE1	2.15	0.47
1:R:433:GLN:HG2	1:S:348:GLY:O	2.15	0.47
1:S:288:GLN:NE2	1:S:698:PHE:O	2.47	0.47
1:S:415:SER:OG	1:U:623:ASP:OD1	2.28	0.47
1:T:276:ASN:OD1	1:T:615:ILE:N	2.46	0.47
1:U:466:PHE:O	1:U:468:ARG:NH1	2.47	0.47
1:V:233:VAL:HG13	1:V:682:TRP:HB2	1.96	0.47
1:V:277:ARG:NH2	1:V:279:HIS:HE1	2.12	0.47
1:V:281:HIS:HE1	1:V:678:VAL:HG11	1.79	0.47
1:W:247:ASN:OD1	1:W:365:GLN:NE2	2.48	0.47
1:X:691:ARG:HD3	1:X:695:GLU:HG3	1.97	0.47
1:Y:691:ARG:HD3	1:Y:695:GLU:HG3	1.97	0.47
1:Z:428:ASN:HB3	1:4:349:GLN:OE1	2.15	0.47
1:a:233:VAL:HG13	1:a:682:TRP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:380:THR:H	1:a:383:ASN:ND2	2.13	0.47
1:a:414:HIS:HB2	1:a:635:PHE:CE1	2.50	0.47
1:a:433:GLN:HG2	1:8:348:GLY:O	2.14	0.47
1:a:467:TYR:HE1	1:8:349:GLN:HE21	1.63	0.47
1:a:558:THR:HG23	1:a:610:TYR:CZ	2.50	0.47
1:b:380:THR:H	1:b:383:ASN:ND2	2.13	0.47
1:c:428:ASN:HB3	1:o:349:GLN:OE1	2.15	0.47
1:c:691:ARG:HD3	1:c:695:GLU:HG3	1.97	0.47
1:d:691:ARG:HD3	1:d:695:GLU:HG3	1.97	0.47
1:e:233:VAL:HG13	1:e:682:TRP:HB2	1.96	0.47
1:e:247:ASN:OD1	1:e:365:GLN:NE2	2.48	0.47
1:e:691:ARG:HD3	1:e:695:GLU:HG3	1.97	0.47
1:f:380:THR:H	1:f:383:ASN:ND2	2.13	0.47
1:f:572:ASP:OD1	1:f:573:MET:N	2.46	0.47
1:g:247:ASN:OD1	1:g:365:GLN:NE2	2.48	0.47
1:g:380:THR:H	1:g:383:ASN:ND2	2.13	0.47
1:g:691:ARG:HD3	1:g:695:GLU:HG3	1.97	0.47
1:h:558:THR:HG23	1:h:610:TYR:CZ	2.50	0.47
1:i:348:GLY:O	1:k:433:GLN:HG2	2.15	0.47
1:i:467:TYR:HE1	1:j:349:GLN:HE21	1.63	0.47
1:j:691:ARG:HD3	1:j:695:GLU:HG3	1.97	0.47
1:k:281:HIS:HE1	1:k:678:VAL:HG11	1.79	0.47
1:k:288:GLN:NE2	1:k:698:PHE:O	2.47	0.47
1:k:380:THR:H	1:k:383:ASN:ND2	2.13	0.47
1:l:240:THR:O	1:l:360:VAL:HG23	2.15	0.47
1:l:608:ASP:OD1	1:l:609:ILE:N	2.48	0.47
1:n:691:ARG:HD3	1:n:695:GLU:HG3	1.97	0.47
1:p:277:ARG:NH2	1:p:279:HIS:HE1	2.12	0.47
1:q:247:ASN:OD1	1:q:365:GLN:NE2	2.48	0.47
1:q:428:ASN:HB3	1:r:349:GLN:OE1	2.15	0.47
1:r:415:SER:OG	1:s:623:ASP:OD1	2.28	0.47
1:r:428:ASN:HB3	1:s:349:GLN:OE1	2.15	0.47
1:s:466:PHE:O	1:s:468:ARG:NH1	2.47	0.47
1:t:233:VAL:HG13	1:t:682:TRP:HB2	1.96	0.47
1:t:380:THR:H	1:t:383:ASN:ND2	2.13	0.47
1:t:572:ASP:OD1	1:t:573:MET:N	2.46	0.47
1:t:691:ARG:HD3	1:t:695:GLU:HG3	1.97	0.47
1:u:247:ASN:OD1	1:u:365:GLN:NE2	2.48	0.47
1:v:558:THR:HG23	1:v:610:TYR:CZ	2.50	0.47
1:w:247:ASN:OD1	1:w:365:GLN:NE2	2.48	0.47
1:w:277:ARG:NH2	1:w:279:HIS:HE1	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:414:HIS:HB2	1:w:635:PHE:CE1	2.50	0.47
1:w:428:ASN:HB3	1:x:349:GLN:OE1	2.15	0.47
1:x:428:ASN:HB3	1:y:349:GLN:OE1	2.15	0.47
1:x:433:GLN:HG2	1:y:348:GLY:O	2.15	0.47
1:x:558:THR:HG23	1:x:610:TYR:CZ	2.50	0.47
1:z:247:ASN:OD1	1:z:365:GLN:NE2	2.48	0.47
1:z:433:GLN:HG2	1:1:348:GLY:O	2.15	0.47
1:1:281:HIS:HE1	1:1:678:VAL:HG11	1.79	0.47
1:1:380:THR:H	1:1:383:ASN:ND2	2.13	0.47
1:1:428:ASN:HB3	1:2:349:GLN:OE1	2.15	0.47
1:1:433:GLN:HG2	1:2:348:GLY:O	2.15	0.47
1:1:572:ASP:OD1	1:1:573:MET:N	2.46	0.47
1:2:254:LEU:N	1:2:265:GLY:O	2.35	0.47
1:2:414:HIS:HB2	1:2:635:PHE:CE1	2.50	0.47
1:3:233:VAL:HG13	1:3:682:TRP:HB2	1.96	0.47
1:3:414:HIS:HB2	1:3:635:PHE:CE1	2.50	0.47
1:3:558:THR:HG23	1:3:610:TYR:CZ	2.50	0.47
1:3:572:ASP:OD1	1:3:573:MET:N	2.46	0.47
1:4:233:VAL:HG13	1:4:682:TRP:HB2	1.96	0.47
1:5:414:HIS:HB2	1:5:635:PHE:CE1	2.50	0.47
1:5:428:ASN:HB3	1:6:349:GLN:OE1	2.15	0.47
1:6:247:ASN:OD1	1:6:365:GLN:NE2	2.48	0.47
1:7:414:HIS:HB2	1:7:635:PHE:CE1	2.50	0.47
1:B:349:GLN:OE1	1:L:428:ASN:HB3	2.15	0.47
1:B:380:THR:H	1:B:383:ASN:ND2	2.13	0.47
1:B:414:HIS:HB2	1:B:635:PHE:CE1	2.50	0.47
1:B:572:ASP:OD1	1:B:573:MET:N	2.46	0.47
1:D:349:GLN:OE1	1:P:428:ASN:HB3	2.15	0.47
1:F:247:ASN:OD1	1:F:365:GLN:NE2	2.48	0.47
1:G:380:THR:H	1:G:383:ASN:ND2	2.13	0.47
1:G:691:ARG:HD3	1:G:695:GLU:HG3	1.97	0.47
1:H:281:HIS:HE1	1:H:678:VAL:HG11	1.79	0.47
1:H:428:ASN:HB3	1:W:349:GLN:OE1	2.15	0.47
1:I:558:THR:HG23	1:I:610:TYR:CZ	2.50	0.47
1:J:299:PRO:HD3	1:J:635:PHE:CE2	2.50	0.47
1:L:558:THR:HG23	1:L:610:TYR:CZ	2.50	0.47
1:L:572:ASP:OD1	1:L:573:MET:N	2.46	0.47
1:M:348:GLY:O	1:b:433:GLN:HG2	2.14	0.47
1:N:414:HIS:HB2	1:N:635:PHE:CE1	2.50	0.47
1:O:608:ASP:OD1	1:O:609:ILE:N	2.48	0.47
1:R:253:ARG:NH2	1:R:379:GLN:HE22	2.00	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:380:THR:H	1:S:383:ASN:ND2	2.13	0.47
1:S:414:HIS:HB2	1:S:635:PHE:CE1	2.50	0.47
1:S:428:ASN:HB3	1:U:349:GLN:OE1	2.15	0.47
1:T:414:HIS:HB2	1:T:635:PHE:CE1	2.50	0.47
1:U:691:ARG:HD3	1:U:695:GLU:HG3	1.97	0.47
1:V:349:GLN:OE1	1:X:428:ASN:HB3	2.15	0.47
1:W:414:HIS:HB2	1:W:635:PHE:CE1	2.50	0.47
1:X:349:GLN:OE1	1:e:428:ASN:HB3	2.15	0.47
1:Y:414:HIS:HB2	1:Y:635:PHE:CE1	2.50	0.47
1:Z:233:VAL:HG13	1:Z:682:TRP:HB2	1.96	0.47
1:Z:466:PHE:O	1:Z:468:ARG:NH1	2.47	0.47
1:a:240:THR:O	1:a:360:VAL:HG23	2.15	0.47
1:c:233:VAL:HG13	1:c:682:TRP:HB2	1.96	0.47
1:c:240:THR:O	1:c:360:VAL:HG23	2.15	0.47
1:c:414:HIS:HB2	1:c:635:PHE:CE1	2.50	0.47
1:d:276:ASN:OD1	1:d:615:ILE:N	2.46	0.47
1:h:691:ARG:HD3	1:h:695:GLU:HG3	1.97	0.47
1:i:414:HIS:HB2	1:i:635:PHE:CE1	2.50	0.47
1:j:233:VAL:HG13	1:j:682:TRP:HB2	1.96	0.47
1:j:572:ASP:OD1	1:j:573:MET:N	2.46	0.47
1:m:414:HIS:HB2	1:m:635:PHE:CE1	2.50	0.47
1:n:276:ASN:OD1	1:n:615:ILE:N	2.46	0.47
1:n:525:ALA:O	1:n:559:SER:OG	2.18	0.47
1:o:428:ASN:HB3	1:p:349:GLN:OE1	2.15	0.47
1:o:691:ARG:HD3	1:o:695:GLU:HG3	1.97	0.47
1:p:281:HIS:HE1	1:p:678:VAL:HG11	1.79	0.47
1:r:380:THR:H	1:r:383:ASN:ND2	2.13	0.47
1:s:558:THR:HG23	1:s:610:TYR:CZ	2.50	0.47
1:u:558:THR:HG23	1:u:610:TYR:CZ	2.50	0.47
1:v:380:THR:H	1:v:383:ASN:ND2	2.13	0.47
1:x:233:VAL:HG13	1:x:682:TRP:HB2	1.96	0.47
1:z:348:GLY:O	1:2:433:GLN:HG2	2.15	0.47
1:z:558:THR:HG23	1:z:610:TYR:CZ	2.50	0.47
1:1:247:ASN:OD1	1:1:365:GLN:NE2	2.48	0.47
1:3:240:THR:O	1:3:360:VAL:HG23	2.15	0.47
1:4:247:ASN:OD1	1:4:365:GLN:NE2	2.48	0.47
1:4:281:HIS:HE1	1:4:678:VAL:HG11	1.79	0.47
1:5:233:VAL:HG13	1:5:682:TRP:HB2	1.96	0.47
1:5:281:HIS:HE1	1:5:678:VAL:HG11	1.79	0.47
1:6:414:HIS:HB2	1:6:635:PHE:CE1	2.50	0.47
1:7:247:ASN:OD1	1:7:365:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:233:VAL:HG13	1:8:682:TRP:HB2	1.96	0.47
1:8:466:PHE:O	1:8:468:ARG:NH1	2.47	0.47
1:B:247:ASN:OD1	1:B:365:GLN:NE2	2.48	0.47
1:C:233:VAL:HG13	1:C:682:TRP:HB2	1.96	0.47
1:D:558:THR:HG23	1:D:610:TYR:CZ	2.50	0.47
1:F:253:ARG:HH21	1:F:379:GLN:NE2	1.98	0.47
1:F:349:GLN:OE1	1:Q:428:ASN:HB3	2.15	0.47
1:G:428:ASN:HB3	1:I:349:GLN:OE1	2.15	0.47
1:H:558:THR:HG23	1:H:610:TYR:CZ	2.50	0.47
1:I:691:ARG:HD3	1:I:695:GLU:HG3	1.97	0.47
1:J:558:THR:HG23	1:J:610:TYR:CZ	2.50	0.47
1:J:691:ARG:HD3	1:J:695:GLU:HG3	1.97	0.47
1:K:247:ASN:OD1	1:K:365:GLN:NE2	2.48	0.47
1:K:276:ASN:OD1	1:K:615:ILE:N	2.46	0.47
1:K:288:GLN:NE2	1:K:698:PHE:O	2.47	0.47
1:L:608:ASP:OD1	1:L:609:ILE:N	2.48	0.47
1:L:691:ARG:HD3	1:L:695:GLU:HG3	1.97	0.47
1:M:691:ARG:HD3	1:M:695:GLU:HG3	1.97	0.47
1:P:572:ASP:OD1	1:P:573:MET:N	2.46	0.47
1:Q:233:VAL:HG13	1:Q:682:TRP:HB2	1.96	0.47
1:S:608:ASP:OD1	1:S:609:ILE:N	2.48	0.47
1:U:558:THR:HG23	1:U:610:TYR:CZ	2.50	0.47
1:W:277:ARG:NH2	1:W:279:HIS:HE1	2.12	0.47
1:W:299:PRO:HD3	1:W:635:PHE:CE2	2.50	0.47
1:X:299:PRO:HD3	1:X:635:PHE:CE2	2.50	0.47
1:Y:247:ASN:OD1	1:Y:365:GLN:NE2	2.48	0.47
1:Y:380:THR:H	1:Y:383:ASN:ND2	2.13	0.47
1:Z:349:GLN:HE21	1:3:467:TYR:HE1	1.63	0.47
1:Z:414:HIS:HB2	1:Z:635:PHE:CE1	2.50	0.47
1:a:572:ASP:OD1	1:a:573:MET:N	2.46	0.47
1:b:247:ASN:OD1	1:b:365:GLN:NE2	2.48	0.47
1:b:608:ASP:OD1	1:b:609:ILE:N	2.48	0.47
1:b:691:ARG:HD3	1:b:695:GLU:HG3	1.97	0.47
1:e:240:THR:O	1:e:360:VAL:HG23	2.15	0.47
1:e:414:HIS:HB2	1:e:635:PHE:CE1	2.50	0.47
1:f:247:ASN:OD1	1:f:365:GLN:NE2	2.48	0.47
1:f:433:GLN:HG2	1:h:348:GLY:O	2.14	0.47
1:f:608:ASP:OD1	1:f:609:ILE:N	2.48	0.47
1:g:233:VAL:HG13	1:g:682:TRP:HB2	1.96	0.47
1:j:281:HIS:HE1	1:j:678:VAL:HG11	1.79	0.47
1:j:652:PRO:HG2	1:l:242:VAL:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:558:THR:HG23	1:k:610:TYR:CZ	2.50	0.47
1:l:299:PRO:HD3	1:l:635:PHE:CE2	2.50	0.47
1:m:276:ASN:OD1	1:m:615:ILE:N	2.46	0.47
1:q:623:ASP:OD1	1:s:415:SER:OG	2.28	0.47
1:r:414:HIS:HB2	1:r:635:PHE:CE1	2.50	0.47
1:r:608:ASP:OD1	1:r:609:ILE:N	2.48	0.47
1:s:691:ARG:HD3	1:s:695:GLU:HG3	1.97	0.47
1:t:247:ASN:OD1	1:t:365:GLN:NE2	2.48	0.47
1:u:691:ARG:HD3	1:u:695:GLU:HG3	1.97	0.47
1:v:247:ASN:OD1	1:v:365:GLN:NE2	2.48	0.47
1:w:348:GLY:O	1:y:433:GLN:HG2	2.14	0.47
1:y:253:ARG:HH21	1:y:379:GLN:NE2	1.98	0.47
1:z:608:ASP:OD1	1:z:609:ILE:N	2.48	0.47
1:z:691:ARG:HD3	1:z:695:GLU:HG3	1.97	0.47
1:1:414:HIS:HB2	1:1:635:PHE:CE1	2.50	0.47
1:2:299:PRO:HD3	1:2:635:PHE:CE2	2.50	0.47
1:5:349:GLN:HE21	1:7:467:TYR:HE1	1.63	0.47
1:5:558:THR:HG23	1:5:610:TYR:CZ	2.50	0.47
1:6:299:PRO:HD3	1:6:635:PHE:CE2	2.50	0.47
1:A:247:ASN:OD1	1:A:365:GLN:NE2	2.48	0.47
1:A:349:GLN:OE1	1:I:428:ASN:HB3	2.15	0.47
1:C:558:THR:HG23	1:C:610:TYR:CZ	2.50	0.47
1:D:380:THR:H	1:D:383:ASN:ND2	2.13	0.47
1:D:608:ASP:OD1	1:D:609:ILE:N	2.48	0.47
1:E:277:ARG:NH2	1:E:279:HIS:HE1	2.12	0.47
1:E:572:ASP:OD1	1:E:573:MET:N	2.46	0.47
1:F:558:THR:HG23	1:F:610:TYR:CZ	2.50	0.47
1:G:247:ASN:OD1	1:G:365:GLN:NE2	2.48	0.47
1:H:247:ASN:OD1	1:H:365:GLN:NE2	2.48	0.47
1:I:281:HIS:HE1	1:I:678:VAL:HG11	1.79	0.47
1:J:240:THR:O	1:J:360:VAL:HG23	2.15	0.47
1:K:281:HIS:HE1	1:K:678:VAL:HG11	1.79	0.47
1:O:299:PRO:HD3	1:O:635:PHE:CE2	2.50	0.47
1:P:240:THR:O	1:P:360:VAL:HG23	2.15	0.47
1:P:281:HIS:HE1	1:P:678:VAL:HG11	1.79	0.47
1:P:608:ASP:OD1	1:P:609:ILE:N	2.48	0.47
1:Q:277:ARG:NH2	1:Q:279:HIS:HE1	2.12	0.47
1:T:240:THR:O	1:T:360:VAL:HG23	2.15	0.47
1:U:608:ASP:OD1	1:U:609:ILE:N	2.48	0.47
1:W:288:GLN:NE2	1:W:698:PHE:O	2.47	0.47
1:W:608:ASP:OD1	1:W:609:ILE:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:380:THR:H	1:X:383:ASN:ND2	2.13	0.47
1:Z:349:GLN:OE1	1:3:428:ASN:HB3	2.15	0.47
1:a:247:ASN:OD1	1:a:365:GLN:NE2	2.48	0.47
1:a:428:ASN:HB3	1:8:349:GLN:OE1	2.15	0.47
1:c:277:ARG:NH2	1:c:279:HIS:HE1	2.12	0.47
1:d:299:PRO:HD3	1:d:635:PHE:CE2	2.50	0.47
1:f:691:ARG:HD3	1:f:695:GLU:HG3	1.97	0.47
1:h:247:ASN:OD1	1:h:365:GLN:NE2	2.48	0.47
1:i:240:THR:O	1:i:360:VAL:HG23	2.15	0.47
1:i:299:PRO:HD3	1:i:635:PHE:CE2	2.50	0.47
1:i:558:THR:HG23	1:i:610:TYR:CZ	2.50	0.47
1:j:428:ASN:HB3	1:k:349:GLN:OE1	2.15	0.47
1:j:608:ASP:OD1	1:j:609:ILE:N	2.48	0.47
1:k:233:VAL:HG13	1:k:682:TRP:HB2	1.96	0.47
1:m:240:THR:O	1:m:360:VAL:HG23	2.15	0.47
1:m:380:THR:H	1:m:383:ASN:ND2	2.13	0.47
1:n:299:PRO:HD3	1:n:635:PHE:CE2	2.50	0.47
1:o:299:PRO:HD3	1:o:635:PHE:CE2	2.50	0.47
1:p:380:THR:H	1:p:383:ASN:ND2	2.13	0.47
1:r:233:VAL:HG13	1:r:682:TRP:HB2	1.96	0.47
1:s:299:PRO:HD3	1:s:635:PHE:CE2	2.50	0.47
1:s:445:GLU:OE1	1:s:445:GLU:N	2.47	0.47
1:s:608:ASP:OD1	1:s:609:ILE:N	2.48	0.47
1:t:428:ASN:HB3	1:u:349:GLN:OE1	2.15	0.47
1:w:572:ASP:OD1	1:w:573:MET:N	2.46	0.47
1:x:277:ARG:NH2	1:x:279:HIS:HE1	2.12	0.47
1:y:247:ASN:OD1	1:y:365:GLN:NE2	2.48	0.47
1:y:572:ASP:OD1	1:y:573:MET:N	2.46	0.47
1:y:691:ARG:HD3	1:y:695:GLU:HG3	1.97	0.47
1:z:428:ASN:HB3	1:1:349:GLN:OE1	2.15	0.47
1:z:467:TYR:HE1	1:1:349:GLN:HE21	1.63	0.47
1:2:240:THR:O	1:2:360:VAL:HG23	2.15	0.47
1:2:558:THR:HG23	1:2:610:TYR:CZ	2.50	0.47
1:2:691:ARG:HD3	1:2:695:GLU:HG3	1.97	0.47
1:3:247:ASN:OD1	1:3:365:GLN:NE2	2.48	0.47
1:4:288:GLN:NE2	1:4:698:PHE:O	2.47	0.47
1:4:558:THR:HG23	1:4:610:TYR:CZ	2.50	0.47
1:6:277:ARG:NH2	1:6:279:HIS:HE1	2.12	0.47
1:6:288:GLN:NE2	1:6:698:PHE:O	2.47	0.47
1:8:414:HIS:HB2	1:8:635:PHE:CE1	2.50	0.47
1:A:608:ASP:OD1	1:A:609:ILE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:299:PRO:HD3	1:B:635:PHE:CE2	2.50	0.46
1:B:349:GLN:HE21	1:L:467:TYR:HE1	1.64	0.46
1:B:558:THR:HG23	1:B:610:TYR:CZ	2.50	0.46
1:C:414:HIS:HB2	1:C:635:PHE:CE1	2.50	0.46
1:D:247:ASN:OD1	1:D:365:GLN:NE2	2.48	0.46
1:E:348:GLY:O	1:F:433:GLN:HG2	2.14	0.46
1:F:414:HIS:HB2	1:F:635:PHE:CE1	2.50	0.46
1:F:691:ARG:HD3	1:F:695:GLU:HG3	1.97	0.46
1:K:558:THR:HG23	1:K:610:TYR:CZ	2.50	0.46
1:M:247:ASN:OD1	1:M:365:GLN:NE2	2.48	0.46
1:N:558:THR:HG23	1:N:610:TYR:CZ	2.50	0.46
1:O:247:ASN:OD1	1:O:365:GLN:NE2	2.48	0.46
1:O:288:GLN:NE2	1:O:698:PHE:O	2.47	0.46
1:Q:281:HIS:HE1	1:Q:678:VAL:HG11	1.79	0.46
1:T:348:GLY:O	1:l:433:GLN:HG2	2.15	0.46
1:T:380:THR:H	1:T:383:ASN:ND2	2.13	0.46
1:T:433:GLN:HG2	1:d:348:GLY:O	2.15	0.46
1:T:691:ARG:HD3	1:T:695:GLU:HG3	1.97	0.46
1:U:299:PRO:HD3	1:U:635:PHE:CE2	2.50	0.46
1:V:299:PRO:HD3	1:V:635:PHE:CE2	2.50	0.46
1:V:380:THR:H	1:V:383:ASN:ND2	2.13	0.46
1:Z:415:SER:OG	1:4:623:ASP:OD1	2.28	0.46
1:b:558:THR:HG23	1:b:610:TYR:CZ	2.50	0.46
1:c:433:GLN:HG2	1:o:348:GLY:O	2.14	0.46
1:c:558:THR:HG23	1:c:610:TYR:CZ	2.50	0.46
1:d:240:THR:O	1:d:360:VAL:HG23	2.15	0.46
1:e:558:THR:HG23	1:e:610:TYR:CZ	2.50	0.46
1:f:349:GLN:HE21	1:g:467:TYR:HE1	1.63	0.46
1:g:414:HIS:HB2	1:g:635:PHE:CE1	2.50	0.46
1:g:558:THR:HG23	1:g:610:TYR:CZ	2.50	0.46
1:j:240:THR:O	1:j:360:VAL:HG23	2.15	0.46
1:j:380:THR:H	1:j:383:ASN:ND2	2.13	0.46
1:j:558:THR:HG23	1:j:610:TYR:CZ	2.50	0.46
1:k:608:ASP:OD1	1:k:609:ILE:N	2.48	0.46
1:l:247:ASN:OD1	1:l:365:GLN:NE2	2.48	0.46
1:m:433:GLN:HG2	1:n:348:GLY:O	2.15	0.46
1:m:558:THR:HG23	1:m:610:TYR:CZ	2.50	0.46
1:m:691:ARG:HD3	1:m:695:GLU:HG3	1.97	0.46
1:n:558:THR:HG23	1:n:610:TYR:CZ	2.50	0.46
1:o:380:THR:H	1:o:383:ASN:ND2	2.13	0.46
1:o:558:THR:HG23	1:o:610:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:299:PRO:HD3	1:p:635:PHE:CE2	2.50	0.46
1:q:558:THR:HG23	1:q:610:TYR:CZ	2.50	0.46
1:t:558:THR:HG23	1:t:610:TYR:CZ	2.50	0.46
1:u:428:ASN:HB3	1:v:349:GLN:OE1	2.15	0.46
1:v:608:ASP:OD1	1:v:609:ILE:N	2.48	0.46
1:x:691:ARG:HD3	1:x:695:GLU:HG3	1.97	0.46
1:y:414:HIS:HB2	1:y:635:PHE:CE1	2.50	0.46
1:z:572:ASP:OD1	1:z:573:MET:N	2.46	0.46
1:1:299:PRO:HD3	1:1:635:PHE:CE2	2.50	0.46
1:3:608:ASP:OD1	1:3:609:ILE:N	2.48	0.46
1:4:276:ASN:OD1	1:4:615:ILE:N	2.46	0.46
1:6:608:ASP:OD1	1:6:609:ILE:N	2.48	0.46
1:7:380:THR:H	1:7:383:ASN:ND2	2.13	0.46
1:C:433:GLN:HG2	1:b:348:GLY:O	2.15	0.46
1:C:467:TYR:HE1	1:b:349:GLN:HE21	1.63	0.46
1:E:240:THR:O	1:E:360:VAL:HG23	2.15	0.46
1:F:572:ASP:OD1	1:F:573:MET:N	2.46	0.46
1:G:558:THR:HG23	1:G:610:TYR:CZ	2.50	0.46
1:G:608:ASP:OD1	1:G:609:ILE:N	2.48	0.46
1:L:299:PRO:HD3	1:L:635:PHE:CE2	2.50	0.46
1:M:277:ARG:NH2	1:M:279:HIS:HE1	2.12	0.46
1:M:414:HIS:HB2	1:M:635:PHE:CE1	2.50	0.46
1:N:240:THR:O	1:N:360:VAL:HG23	2.15	0.46
1:N:299:PRO:HD3	1:N:635:PHE:CE2	2.50	0.46
1:N:428:ASN:HB3	1:P:349:GLN:OE1	2.16	0.46
1:N:691:ARG:HD3	1:N:695:GLU:HG3	1.97	0.46
1:P:288:GLN:NE2	1:P:698:PHE:O	2.47	0.46
1:P:380:THR:H	1:P:383:ASN:ND2	2.13	0.46
1:P:414:HIS:HB2	1:P:635:PHE:CE1	2.50	0.46
1:P:558:THR:HG23	1:P:610:TYR:CZ	2.50	0.46
1:Q:380:THR:H	1:Q:383:ASN:ND2	2.13	0.46
1:Q:691:ARG:HD3	1:Q:695:GLU:HG3	1.97	0.46
1:R:558:THR:HG23	1:R:610:TYR:CZ	2.50	0.46
1:S:233:VAL:HG13	1:S:682:TRP:HB2	1.96	0.46
1:S:240:THR:O	1:S:360:VAL:HG23	2.15	0.46
1:T:349:GLN:HE21	1:l:467:TYR:HE1	1.64	0.46
1:V:433:GLN:HG2	1:e:348:GLY:O	2.15	0.46
1:V:558:THR:HG23	1:V:610:TYR:CZ	2.50	0.46
1:X:348:GLY:O	1:e:433:GLN:HG2	2.14	0.46
1:X:558:THR:HG23	1:X:610:TYR:CZ	2.50	0.46
1:Y:240:THR:O	1:Y:360:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:558:THR:HG23	1:Y:610:TYR:CZ	2.50	0.46
1:a:608:ASP:OD1	1:a:609:ILE:N	2.48	0.46
1:d:558:THR:HG23	1:d:610:TYR:CZ	2.50	0.46
1:d:608:ASP:OD1	1:d:609:ILE:N	2.48	0.46
1:e:277:ARG:NH2	1:e:279:HIS:HE1	2.12	0.46
1:f:558:THR:HG23	1:f:610:TYR:CZ	2.50	0.46
1:i:691:ARG:HD3	1:i:695:GLU:HG3	1.97	0.46
1:j:414:HIS:HB2	1:j:635:PHE:CE1	2.50	0.46
1:k:247:ASN:OD1	1:k:365:GLN:NE2	2.48	0.46
1:n:240:THR:O	1:n:360:VAL:HG23	2.15	0.46
1:o:281:HIS:HE1	1:o:678:VAL:HG11	1.79	0.46
1:r:240:THR:O	1:r:360:VAL:HG23	2.15	0.46
1:t:299:PRO:HD3	1:t:635:PHE:CE2	2.50	0.46
1:t:608:ASP:OD1	1:t:609:ILE:N	2.48	0.46
1:w:240:THR:O	1:w:360:VAL:HG23	2.15	0.46
1:x:281:HIS:HE1	1:x:678:VAL:HG11	1.79	0.46
1:y:558:THR:HG23	1:y:610:TYR:CZ	2.50	0.46
1:1:558:THR:HG23	1:1:610:TYR:CZ	2.50	0.46
1:2:380:THR:H	1:2:383:ASN:ND2	2.13	0.46
1:5:247:ASN:OD1	1:5:365:GLN:NE2	2.48	0.46
1:5:299:PRO:HD3	1:5:635:PHE:CE2	2.50	0.46
1:5:458:LYS:NZ	1:6:350:GLU:OE2	2.44	0.46
1:7:240:THR:O	1:7:360:VAL:HG23	2.15	0.46
1:8:558:THR:HG23	1:8:610:TYR:CZ	2.50	0.46
1:A:348:GLY:O	1:I:433:GLN:HG2	2.15	0.46
1:D:233:VAL:HG13	1:D:682:TRP:HB2	1.96	0.46
1:E:299:PRO:HD3	1:E:635:PHE:CE2	2.50	0.46
1:F:240:THR:O	1:F:360:VAL:HG23	2.15	0.46
1:G:299:PRO:HD3	1:G:635:PHE:CE2	2.50	0.46
1:H:299:PRO:HD3	1:H:635:PHE:CE2	2.50	0.46
1:H:608:ASP:OD1	1:H:609:ILE:N	2.48	0.46
1:I:299:PRO:HD3	1:I:635:PHE:CE2	2.50	0.46
1:J:380:THR:H	1:J:383:ASN:ND2	2.13	0.46
1:K:240:THR:O	1:K:360:VAL:HG23	2.15	0.46
1:K:299:PRO:HD3	1:K:635:PHE:CE2	2.50	0.46
1:K:433:GLN:HG2	1:a:348:GLY:O	2.15	0.46
1:M:608:ASP:OD1	1:M:609:ILE:N	2.48	0.46
1:O:433:GLN:HG2	1:m:348:GLY:O	2.15	0.46
1:O:467:TYR:HE1	1:m:349:GLN:HE21	1.64	0.46
1:W:428:ASN:HB3	1:Y:349:GLN:OE1	2.15	0.46
1:Z:467:TYR:HE1	1:4:349:GLN:HE21	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:558:THR:HG23	1:Z:610:TYR:CZ	2.50	0.46
1:Z:691:ARG:HD3	1:Z:695:GLU:HG3	1.97	0.46
1:b:240:THR:O	1:b:360:VAL:HG23	2.15	0.46
1:d:281:HIS:HE1	1:d:678:VAL:HG11	1.79	0.46
1:d:525:ALA:O	1:d:559:SER:OG	2.18	0.46
1:f:276:ASN:OD1	1:f:615:ILE:N	2.46	0.46
1:f:348:GLY:O	1:g:433:GLN:HG2	2.15	0.46
1:h:277:ARG:NH2	1:h:279:HIS:HE1	2.12	0.46
1:h:414:HIS:HB2	1:h:635:PHE:CE1	2.50	0.46
1:i:428:ASN:HB3	1:j:349:GLN:OE1	2.16	0.46
1:k:414:HIS:HB2	1:k:635:PHE:CE1	2.50	0.46
1:l:288:GLN:NE2	1:l:698:PHE:O	2.47	0.46
1:n:281:HIS:HE1	1:n:678:VAL:HG11	1.79	0.46
1:n:608:ASP:OD1	1:n:609:ILE:N	2.48	0.46
1:o:467:TYR:HE1	1:p:349:GLN:HE21	1.63	0.46
1:p:558:THR:HG23	1:p:610:TYR:CZ	2.50	0.46
1:q:572:ASP:OD1	1:q:573:MET:N	2.46	0.46
1:u:281:HIS:HE1	1:u:678:VAL:HG11	1.79	0.46
1:u:433:GLN:HG2	1:v:348:GLY:O	2.15	0.46
1:x:380:THR:H	1:x:383:ASN:ND2	2.13	0.46
1:z:299:PRO:HD3	1:z:635:PHE:CE2	2.50	0.46
1:1:276:ASN:OD1	1:1:615:ILE:N	2.46	0.46
1:3:348:GLY:O	1:4:433:GLN:HG2	2.15	0.46
1:4:608:ASP:OD1	1:4:609:ILE:N	2.48	0.46
1:6:281:HIS:HE1	1:6:678:VAL:HG11	1.79	0.46
1:8:691:ARG:HD3	1:8:695:GLU:HG3	1.97	0.46
1:B:276:ASN:OD1	1:B:615:ILE:N	2.46	0.46
1:D:414:HIS:HB2	1:D:635:PHE:CE1	2.50	0.46
1:D:428:ASN:HB3	1:N:349:GLN:OE1	2.15	0.46
1:G:240:THR:O	1:G:360:VAL:HG23	2.15	0.46
1:H:240:THR:O	1:H:360:VAL:HG23	2.15	0.46
1:I:240:THR:O	1:I:360:VAL:HG23	2.15	0.46
1:J:281:HIS:HE1	1:J:678:VAL:HG11	1.79	0.46
1:K:348:GLY:O	1:8:433:GLN:HG2	2.15	0.46
1:K:349:GLN:HE21	1:8:467:TYR:HE1	1.64	0.46
1:K:414:HIS:HB2	1:K:635:PHE:CE1	2.50	0.46
1:K:445:GLU:OE1	1:K:445:GLU:N	2.47	0.46
1:K:608:ASP:OD1	1:K:609:ILE:N	2.48	0.46
1:M:623:ASP:OD1	1:b:415:SER:OG	2.28	0.46
1:N:380:THR:H	1:N:383:ASN:ND2	2.13	0.46
1:O:558:THR:HG23	1:O:610:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:349:GLN:HE21	1:U:467:TYR:HE1	1.64	0.46
1:S:253:ARG:HH21	1:S:379:GLN:NE2	1.99	0.46
1:S:558:THR:HG23	1:S:610:TYR:CZ	2.50	0.46
1:T:558:THR:HG23	1:T:610:TYR:CZ	2.50	0.46
1:U:240:THR:O	1:U:360:VAL:HG23	2.15	0.46
1:V:288:GLN:NE2	1:V:698:PHE:O	2.47	0.46
1:V:349:GLN:HE21	1:X:467:TYR:HE1	1.63	0.46
1:W:281:HIS:HE1	1:W:678:VAL:HG11	1.79	0.46
1:X:281:HIS:HE1	1:X:678:VAL:HG11	1.79	0.46
1:X:349:GLN:HE21	1:e:467:TYR:HE1	1.63	0.46
1:Z:240:THR:O	1:Z:360:VAL:HG23	2.15	0.46
1:c:348:GLY:O	1:p:433:GLN:HG2	2.15	0.46
1:c:349:GLN:OE1	1:p:428:ASN:HB3	2.15	0.46
1:c:380:THR:H	1:c:383:ASN:ND2	2.13	0.46
1:c:608:ASP:OD1	1:c:609:ILE:N	2.48	0.46
1:f:240:THR:O	1:f:360:VAL:HG23	2.15	0.46
1:h:608:ASP:OD1	1:h:609:ILE:N	2.48	0.46
1:i:349:GLN:OE1	1:k:428:ASN:HB3	2.15	0.46
1:j:288:GLN:NE2	1:j:698:PHE:O	2.47	0.46
1:p:608:ASP:OD1	1:p:609:ILE:N	2.48	0.46
1:r:299:PRO:HD3	1:r:635:PHE:CE2	2.50	0.46
1:s:240:THR:O	1:s:360:VAL:HG23	2.15	0.46
1:s:414:HIS:HB2	1:s:635:PHE:CE1	2.50	0.46
1:t:240:THR:O	1:t:360:VAL:HG23	2.15	0.46
1:u:240:THR:O	1:u:360:VAL:HG23	2.15	0.46
1:u:299:PRO:HD3	1:u:635:PHE:CE2	2.50	0.46
1:2:281:HIS:HE1	1:2:678:VAL:HG11	1.79	0.46
1:2:445:GLU:OE1	1:2:445:GLU:N	2.47	0.46
1:3:299:PRO:HD3	1:3:635:PHE:CE2	2.50	0.46
1:3:349:GLN:OE1	1:4:428:ASN:HB3	2.15	0.46
1:4:240:THR:O	1:4:360:VAL:HG23	2.15	0.46
1:4:299:PRO:HD3	1:4:635:PHE:CE2	2.50	0.46
1:4:414:HIS:HB2	1:4:635:PHE:CE1	2.50	0.46
1:5:240:THR:O	1:5:360:VAL:HG23	2.15	0.46
1:5:276:ASN:OD1	1:5:615:ILE:N	2.46	0.46
1:5:608:ASP:OD1	1:5:609:ILE:N	2.48	0.46
1:6:240:THR:O	1:6:360:VAL:HG23	2.15	0.46
1:7:299:PRO:HD3	1:7:635:PHE:CE2	2.50	0.46
1:7:558:THR:HG23	1:7:610:TYR:CZ	2.50	0.46
1:8:445:GLU:OE1	1:8:445:GLU:N	2.47	0.46
1:B:623:ASP:OD1	1:L:415:SER:OG	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:428:ASN:HB3	1:b:349:GLN:OE1	2.15	0.46
1:D:240:THR:O	1:D:360:VAL:HG23	2.15	0.46
1:D:299:PRO:HD3	1:D:635:PHE:CE2	2.50	0.46
1:D:691:ARG:HD3	1:D:695:GLU:HG3	1.97	0.46
1:E:349:GLN:HE21	1:F:467:TYR:HE1	1.63	0.46
1:E:608:ASP:OD1	1:E:609:ILE:N	2.48	0.46
1:F:299:PRO:HD3	1:F:635:PHE:CE2	2.50	0.46
1:G:288:GLN:NE2	1:G:698:PHE:O	2.47	0.46
1:K:253:ARG:NH2	1:K:379:GLN:HE22	2.00	0.46
1:K:623:ASP:OD1	1:8:415:SER:OG	2.28	0.46
1:R:572:ASP:OD1	1:R:573:MET:N	2.46	0.46
1:S:299:PRO:HD3	1:S:635:PHE:CE2	2.50	0.46
1:T:299:PRO:HD3	1:T:635:PHE:CE2	2.50	0.46
1:U:414:HIS:HB2	1:U:635:PHE:CE1	2.50	0.46
1:V:428:ASN:HB3	1:e:349:GLN:OE1	2.15	0.46
1:V:608:ASP:OD1	1:V:609:ILE:N	2.48	0.46
1:W:240:THR:O	1:W:360:VAL:HG23	2.15	0.46
1:W:558:THR:HG23	1:W:610:TYR:CZ	2.50	0.46
1:X:240:THR:O	1:X:360:VAL:HG23	2.15	0.46
1:Y:299:PRO:HD3	1:Y:635:PHE:CE2	2.50	0.46
1:Z:299:PRO:HD3	1:Z:635:PHE:CE2	2.50	0.46
1:Z:433:GLN:HG2	1:4:348:GLY:O	2.15	0.46
1:a:299:PRO:HD3	1:a:635:PHE:CE2	2.50	0.46
1:e:380:THR:H	1:e:383:ASN:ND2	2.13	0.46
1:e:608:ASP:OD1	1:e:609:ILE:N	2.48	0.46
1:k:240:THR:O	1:k:360:VAL:HG23	2.15	0.46
1:k:299:PRO:HD3	1:k:635:PHE:CE2	2.50	0.46
1:k:691:ARG:HD3	1:k:695:GLU:HG3	1.97	0.46
1:l:558:THR:HG23	1:l:610:TYR:CZ	2.50	0.46
1:l:691:ARG:HD3	1:l:695:GLU:HG3	1.97	0.46
1:m:299:PRO:HD3	1:m:635:PHE:CE2	2.50	0.46
1:o:240:THR:O	1:o:360:VAL:HG23	2.15	0.46
1:p:288:GLN:NE2	1:p:698:PHE:O	2.47	0.46
1:q:349:GLN:HE21	1:s:467:TYR:HE1	1.64	0.46
1:r:558:THR:HG23	1:r:610:TYR:CZ	2.50	0.46
1:u:467:TYR:HE1	1:v:349:GLN:HE21	1.63	0.46
1:w:299:PRO:HD3	1:w:635:PHE:CE2	2.50	0.46
1:y:240:THR:O	1:y:360:VAL:HG23	2.15	0.46
1:y:299:PRO:HD3	1:y:635:PHE:CE2	2.50	0.46
1:4:445:GLU:OE1	1:4:445:GLU:N	2.47	0.46
1:6:428:ASN:HB3	1:7:349:GLN:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:608:ASP:OD1	1:7:609:ILE:N	2.48	0.46
1:8:240:THR:O	1:8:360:VAL:HG23	2.15	0.46
1:8:299:PRO:HD3	1:8:635:PHE:CE2	2.50	0.46
1:A:299:PRO:HD3	1:A:635:PHE:CE2	2.50	0.46
1:B:240:THR:O	1:B:360:VAL:HG23	2.15	0.46
1:E:380:THR:H	1:E:383:ASN:ND2	2.13	0.46
1:F:608:ASP:OD1	1:F:609:ILE:N	2.48	0.46
1:H:348:GLY:O	1:Y:433:GLN:HG2	2.16	0.46
1:H:349:GLN:OE1	1:Y:428:ASN:HB3	2.16	0.46
1:I:414:HIS:HB2	1:I:635:PHE:CE1	2.50	0.46
1:J:445:GLU:OE1	1:J:445:GLU:N	2.47	0.46
1:J:467:TYR:HE1	1:L:349:GLN:HE21	1.64	0.46
1:K:428:ASN:HB3	1:a:349:GLN:OE1	2.15	0.46
1:O:349:GLN:HE21	1:n:467:TYR:HE1	1.63	0.46
1:O:380:THR:H	1:O:383:ASN:ND2	2.13	0.46
1:O:691:ARG:HD3	1:O:695:GLU:HG3	1.97	0.46
1:S:433:GLN:HG2	1:U:348:GLY:O	2.15	0.46
1:V:350:GLU:OE2	1:X:458:LYS:NZ	2.44	0.46
1:V:458:LYS:NZ	1:e:350:GLU:OE2	2.44	0.46
1:W:691:ARG:HD3	1:W:695:GLU:HG3	1.97	0.46
1:Z:445:GLU:OE1	1:Z:445:GLU:N	2.47	0.46
1:b:276:ASN:OD1	1:b:615:ILE:N	2.46	0.46
1:c:467:TYR:HE1	1:o:349:GLN:HE21	1.63	0.46
1:f:414:HIS:HB2	1:f:635:PHE:CE1	2.50	0.46
1:h:240:THR:O	1:h:360:VAL:HG23	2.15	0.46
1:i:380:THR:H	1:i:383:ASN:ND2	2.13	0.46
1:m:428:ASN:HB3	1:n:349:GLN:OE1	2.15	0.46
1:q:240:THR:O	1:q:360:VAL:HG23	2.15	0.46
1:t:349:GLN:OE1	1:v:428:ASN:HB3	2.15	0.46
1:v:691:ARG:HD3	1:v:695:GLU:HG3	1.97	0.46
1:w:349:GLN:HE21	1:y:467:TYR:HE1	1.63	0.46
1:w:691:ARG:HD3	1:w:695:GLU:HG3	1.97	0.46
1:x:299:PRO:HD3	1:x:635:PHE:CE2	2.50	0.46
1:z:240:THR:O	1:z:360:VAL:HG23	2.15	0.46
1:z:380:THR:H	1:z:383:ASN:ND2	2.13	0.46
1:1:467:TYR:HE1	1:2:349:GLN:HE21	1.63	0.46
1:5:349:GLN:OE1	1:7:428:ASN:HB3	2.16	0.46
1:6:380:THR:H	1:6:383:ASN:ND2	2.13	0.46
1:6:558:THR:HG23	1:6:610:TYR:CZ	2.50	0.46
1:A:428:ASN:HB3	1:G:349:GLN:OE1	2.15	0.46
1:A:691:ARG:HD3	1:A:695:GLU:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:467:TYR:HE1	1:J:349:GLN:HE21	1.63	0.46
1:E:691:ARG:HD3	1:E:695:GLU:HG3	1.97	0.46
1:G:467:TYR:HE1	1:I:349:GLN:HE21	1.64	0.46
1:H:276:ASN:OD1	1:H:615:ILE:N	2.46	0.46
1:H:691:ARG:HD3	1:H:695:GLU:HG3	1.97	0.46
1:I:445:GLU:OE1	1:I:445:GLU:N	2.47	0.46
1:M:240:THR:O	1:M:360:VAL:HG23	2.15	0.46
1:M:299:PRO:HD3	1:M:635:PHE:CE2	2.50	0.46
1:M:349:GLN:OE1	1:b:428:ASN:HB3	2.15	0.46
1:Q:299:PRO:HD3	1:Q:635:PHE:CE2	2.50	0.46
1:S:572:ASP:OD1	1:S:573:MET:N	2.46	0.46
1:V:414:HIS:HB2	1:V:635:PHE:CE1	2.50	0.46
1:Y:608:ASP:OD1	1:Y:609:ILE:N	2.48	0.46
1:d:467:TYR:HE1	1:l:349:GLN:HE21	1.63	0.46
1:f:349:GLN:OE1	1:g:428:ASN:HB3	2.15	0.46
1:g:240:THR:O	1:g:360:VAL:HG23	2.15	0.46
1:l:380:THR:H	1:l:383:ASN:ND2	2.13	0.46
1:r:433:GLN:HG2	1:s:348:GLY:O	2.15	0.46
1:t:288:GLN:NE2	1:t:698:PHE:O	2.47	0.46
1:t:348:GLY:O	1:v:433:GLN:HG2	2.14	0.46
1:t:349:GLN:HE21	1:v:467:TYR:HE1	1.63	0.46
1:u:414:HIS:HB2	1:u:635:PHE:CE1	2.50	0.46
1:v:299:PRO:HD3	1:v:635:PHE:CE2	2.50	0.46
1:w:380:THR:H	1:w:383:ASN:ND2	2.13	0.46
1:w:558:THR:HG23	1:w:610:TYR:CZ	2.50	0.46
1:w:608:ASP:OD1	1:w:609:ILE:N	2.48	0.46
1:y:608:ASP:OD1	1:y:609:ILE:N	2.48	0.46
1:z:415:SER:OG	1:1:623:ASP:OD1	2.28	0.46
1:5:691:ARG:HD3	1:5:695:GLU:HG3	1.97	0.46
1:6:691:ARG:HD3	1:6:695:GLU:HG3	1.97	0.46
1:C:608:ASP:OD1	1:C:609:ILE:N	2.48	0.46
1:D:348:GLY:O	1:P:433:GLN:HG2	2.15	0.46
1:E:558:THR:HG23	1:E:610:TYR:CZ	2.50	0.46
1:K:691:ARG:HD3	1:K:695:GLU:HG3	1.97	0.46
1:L:240:THR:O	1:L:360:VAL:HG23	2.15	0.46
1:L:380:THR:H	1:L:383:ASN:ND2	2.13	0.46
1:N:608:ASP:OD1	1:N:609:ILE:N	2.48	0.46
1:R:240:THR:O	1:R:360:VAL:HG23	2.15	0.46
1:T:288:GLN:NE2	1:T:698:PHE:O	2.47	0.46
1:T:428:ASN:HB3	1:d:349:GLN:OE1	2.15	0.46
1:W:380:THR:H	1:W:383:ASN:ND2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:414:HIS:HB2	1:b:635:PHE:CE1	2.50	0.46
1:f:299:PRO:HD3	1:f:635:PHE:CE2	2.50	0.46
1:f:415:SER:OG	1:h:623:ASP:OD1	2.28	0.46
1:f:428:ASN:HB3	1:h:349:GLN:OE1	2.15	0.46
1:g:608:ASP:OD1	1:g:609:ILE:N	2.48	0.46
1:h:299:PRO:HD3	1:h:635:PHE:CE2	2.50	0.46
1:o:608:ASP:OD1	1:o:609:ILE:N	2.48	0.46
1:q:608:ASP:OD1	1:q:609:ILE:N	2.48	0.46
1:r:572:ASP:OD1	1:r:573:MET:N	2.46	0.46
1:t:467:TYR:HE1	1:u:349:GLN:HE21	1.64	0.46
1:u:445:GLU:OE1	1:u:445:GLU:N	2.47	0.46
1:u:608:ASP:OD1	1:u:609:ILE:N	2.48	0.46
1:z:349:GLN:HE21	1:2:467:TYR:HE1	1.64	0.46
1:1:240:THR:O	1:1:360:VAL:HG23	2.15	0.46
1:4:691:ARG:HD3	1:4:695:GLU:HG3	1.97	0.46
1:5:348:GLY:O	1:7:433:GLN:HG2	2.16	0.46
1:A:467:TYR:HE1	1:G:349:GLN:HE21	1.63	0.46
1:C:240:THR:O	1:C:360:VAL:HG23	2.15	0.46
1:H:380:THR:H	1:H:383:ASN:ND2	2.13	0.46
1:I:608:ASP:OD1	1:I:609:ILE:N	2.48	0.46
1:R:380:THR:H	1:R:383:ASN:ND2	2.13	0.46
1:R:414:HIS:HB2	1:R:635:PHE:CE1	2.50	0.46
1:R:608:ASP:OD1	1:R:609:ILE:N	2.48	0.46
1:T:608:ASP:OD1	1:T:609:ILE:N	2.48	0.46
1:V:240:THR:O	1:V:360:VAL:HG23	2.15	0.46
1:X:608:ASP:OD1	1:X:609:ILE:N	2.48	0.46
1:b:299:PRO:HD3	1:b:635:PHE:CE2	2.50	0.46
1:o:253:ARG:NH2	1:o:379:GLN:HE22	2.00	0.46
1:p:240:THR:O	1:p:360:VAL:HG23	2.15	0.46
1:p:414:HIS:HB2	1:p:635:PHE:CE1	2.50	0.46
1:r:253:ARG:HH21	1:r:379:GLN:NE2	1.99	0.46
1:x:608:ASP:OD1	1:x:609:ILE:N	2.48	0.46
1:5:253:ARG:NH2	1:5:379:GLN:HE22	2.00	0.46
1:A:349:GLN:HE21	1:I:467:TYR:HE1	1.64	0.46
1:A:433:GLN:HG2	1:G:348:GLY:O	2.15	0.46
1:G:308:ASN:HB2	1:G:675:GLN:HG2	1.98	0.46
1:N:452:ALA:HB2	1:P:491:LYS:HE2	1.98	0.46
1:Q:608:ASP:OD1	1:Q:609:ILE:N	2.48	0.46
1:T:445:GLU:OE1	1:T:445:GLU:N	2.47	0.46
1:U:288:GLN:NE2	1:U:698:PHE:O	2.47	0.46
1:d:380:THR:H	1:d:383:ASN:ND2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:608:ASP:OD1	1:i:609:ILE:N	2.48	0.46
1:l:541:GLY:HA3	1:l:554:ASN:O	2.16	0.46
1:m:288:GLN:NE2	1:m:698:PHE:O	2.47	0.46
1:m:445:GLU:OE1	1:m:445:GLU:N	2.47	0.46
1:m:467:TYR:HE1	1:n:349:GLN:HE21	1.63	0.46
1:m:608:ASP:OD1	1:m:609:ILE:N	2.48	0.46
1:n:380:THR:H	1:n:383:ASN:ND2	2.13	0.46
1:q:414:HIS:HB2	1:q:635:PHE:CE1	2.50	0.46
1:t:308:ASN:HB2	1:t:675:GLN:HG2	1.98	0.46
1:v:240:THR:O	1:v:360:VAL:HG23	2.15	0.46
1:1:253:ARG:NH2	1:1:379:GLN:HE22	2.00	0.46
1:1:608:ASP:OD1	1:1:609:ILE:N	2.48	0.46
1:5:380:THR:H	1:5:383:ASN:ND2	2.13	0.46
1:8:380:THR:H	1:8:383:ASN:ND2	2.13	0.46
1:G:445:GLU:OE1	1:G:445:GLU:N	2.47	0.45
1:K:467:TYR:HE1	1:a:349:GLN:HE21	1.63	0.45
1:N:445:GLU:OE1	1:N:445:GLU:N	2.47	0.45
1:O:242:VAL:HB	1:P:652:PRO:HG2	1.99	0.45
1:O:541:GLY:HA3	1:O:554:ASN:O	2.17	0.45
1:R:299:PRO:HD3	1:R:635:PHE:CE2	2.50	0.45
1:R:691:ARG:HD3	1:R:695:GLU:HG3	1.97	0.45
1:S:691:ARG:HD3	1:S:695:GLU:HG3	1.97	0.45
1:Y:294:ASN:OD1	1:Y:686:LYS:HD3	2.16	0.45
1:Z:294:ASN:OD1	1:Z:686:LYS:HD3	2.17	0.45
1:Z:380:THR:H	1:Z:383:ASN:ND2	2.13	0.45
1:c:308:ASN:HB2	1:c:675:GLN:HG2	1.99	0.45
1:c:349:GLN:HE21	1:p:467:TYR:HE1	1.63	0.45
1:e:308:ASN:HB2	1:e:675:GLN:HG2	1.99	0.45
1:k:572:ASP:OD1	1:k:573:MET:N	2.46	0.45
1:n:572:ASP:OD1	1:n:573:MET:N	2.46	0.45
1:o:276:ASN:OD1	1:o:615:ILE:N	2.46	0.45
1:p:242:VAL:HB	1:q:652:PRO:HG2	1.99	0.45
1:q:380:THR:H	1:q:383:ASN:ND2	2.13	0.45
1:q:691:ARG:HD3	1:q:695:GLU:HG3	1.97	0.45
1:r:691:ARG:HD3	1:r:695:GLU:HG3	1.97	0.45
1:s:288:GLN:NE2	1:s:698:PHE:O	2.47	0.45
1:s:380:THR:H	1:s:383:ASN:ND2	2.13	0.45
1:t:445:GLU:OE1	1:t:445:GLU:N	2.47	0.45
1:y:294:ASN:OD1	1:y:686:LYS:HD3	2.16	0.45
1:z:294:ASN:OD1	1:z:686:LYS:HD3	2.17	0.45
1:5:415:SER:OG	1:6:623:ASP:OD1	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:294:ASN:OD1	1:7:686:LYS:HD3	2.16	0.45
1:8:294:ASN:OD1	1:8:686:LYS:HD3	2.17	0.45
1:B:308:ASN:HB2	1:B:675:GLN:HG2	1.99	0.45
1:B:608:ASP:OD1	1:B:609:ILE:N	2.48	0.45
1:C:652:PRO:HG2	1:D:242:VAL:HB	1.99	0.45
1:D:572:ASP:OD1	1:D:573:MET:N	2.46	0.45
1:F:294:ASN:OD1	1:F:686:LYS:HD3	2.16	0.45
1:F:541:GLY:HA3	1:F:554:ASN:O	2.17	0.45
1:H:253:ARG:NH2	1:H:379:GLN:HE22	2.00	0.45
1:H:467:TYR:HE1	1:W:349:GLN:HE21	1.64	0.45
1:L:294:ASN:OD1	1:L:686:LYS:HD3	2.17	0.45
1:R:652:PRO:HG2	1:V:242:VAL:HB	1.99	0.45
1:U:380:THR:H	1:U:383:ASN:ND2	2.13	0.45
1:V:467:TYR:HE1	1:e:349:GLN:HE21	1.63	0.45
1:c:541:GLY:HA3	1:c:554:ASN:O	2.17	0.45
1:e:541:GLY:HA3	1:e:554:ASN:O	2.17	0.45
1:f:294:ASN:OD1	1:f:686:LYS:HD3	2.17	0.45
1:g:652:PRO:HG2	1:k:242:VAL:HB	1.99	0.45
1:h:294:ASN:OD1	1:h:686:LYS:HD3	2.16	0.45
1:i:445:GLU:OE1	1:i:445:GLU:N	2.47	0.45
1:l:276:ASN:OD1	1:l:615:ILE:N	2.46	0.45
1:q:299:PRO:HD3	1:q:635:PHE:CE2	2.50	0.45
1:1:541:GLY:HA3	1:1:554:ASN:O	2.16	0.45
1:3:349:GLN:HE21	1:4:467:TYR:HE1	1.63	0.45
1:A:240:THR:O	1:A:360:VAL:HG23	2.15	0.45
1:A:652:PRO:HG2	1:B:242:VAL:HB	1.98	0.45
1:B:541:GLY:HA3	1:B:554:ASN:O	2.16	0.45
1:E:308:ASN:HB2	1:E:675:GLN:HG2	1.98	0.45
1:F:242:VAL:HB	1:G:652:PRO:HG2	1.99	0.45
1:G:242:VAL:HB	1:W:652:PRO:HG2	1.99	0.45
1:G:294:ASN:OD1	1:G:686:LYS:HD3	2.16	0.45
1:H:308:ASN:HB2	1:H:675:GLN:HG2	1.99	0.45
1:H:658:THR:HG22	1:H:659:PHE:N	2.32	0.45
1:I:308:ASN:HB2	1:I:675:GLN:HG2	1.98	0.45
1:J:608:ASP:OD1	1:J:609:ILE:N	2.48	0.45
1:N:576:GLN:HB2	1:P:506:HIS:CE1	2.52	0.45
1:O:276:ASN:OD1	1:O:615:ILE:N	2.46	0.45
1:R:308:ASN:HB2	1:R:675:GLN:HG2	1.99	0.45
1:V:652:PRO:HG2	1:W:242:VAL:HB	1.99	0.45
1:V:691:ARG:HD3	1:V:695:GLU:HG3	1.97	0.45
1:X:253:ARG:NH2	1:X:379:GLN:HE22	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:658:THR:HG22	1:X:659:PHE:N	2.32	0.45
1:b:294:ASN:OD1	1:b:686:LYS:HD3	2.17	0.45
1:b:541:GLY:HA3	1:b:554:ASN:O	2.17	0.45
1:d:572:ASP:OD1	1:d:573:MET:N	2.46	0.45
1:f:541:GLY:HA3	1:f:554:ASN:O	2.17	0.45
1:g:253:ARG:NH2	1:g:379:GLN:HE22	2.00	0.45
1:k:294:ASN:OD1	1:k:686:LYS:HD3	2.16	0.45
1:n:652:PRO:HG2	1:r:242:VAL:HB	1.99	0.45
1:n:658:THR:HG22	1:n:659:PHE:N	2.32	0.45
1:o:658:THR:HG22	1:o:659:PHE:N	2.32	0.45
1:p:276:ASN:OD1	1:p:615:ILE:N	2.46	0.45
1:p:652:PRO:HG2	1:6:242:VAL:HB	1.99	0.45
1:p:691:ARG:HD3	1:p:695:GLU:HG3	1.97	0.45
1:q:308:ASN:HB2	1:q:675:GLN:HG2	1.99	0.45
1:u:308:ASN:HB2	1:u:675:GLN:HG2	1.98	0.45
1:w:308:ASN:HB2	1:w:675:GLN:HG2	1.98	0.45
1:x:658:THR:HG22	1:x:659:PHE:N	2.32	0.45
1:y:541:GLY:HA3	1:y:554:ASN:O	2.17	0.45
1:1:308:ASN:HB2	1:1:675:GLN:HG2	1.99	0.45
1:5:308:ASN:HB2	1:5:675:GLN:HG2	1.99	0.45
1:5:467:TYR:HE1	1:6:349:GLN:HE21	1.64	0.45
1:5:658:THR:HG22	1:5:659:PHE:N	2.32	0.45
1:B:652:PRO:HG2	1:C:242:VAL:HB	1.99	0.45
1:D:294:ASN:OD1	1:D:686:LYS:HD3	2.16	0.45
1:G:541:GLY:HA3	1:G:554:ASN:O	2.17	0.45
1:M:294:ASN:OD1	1:M:686:LYS:HD3	2.17	0.45
1:M:308:ASN:HB2	1:M:675:GLN:HG2	1.99	0.45
1:P:658:THR:HG22	1:P:659:PHE:N	2.32	0.45
1:S:242:VAL:HB	1:d:652:PRO:HG2	1.99	0.45
1:T:467:TYR:HE1	1:d:349:GLN:HE21	1.63	0.45
1:W:294:ASN:OD1	1:W:686:LYS:HD3	2.16	0.45
1:W:467:TYR:HE1	1:Y:349:GLN:HE21	1.63	0.45
1:X:242:VAL:HB	1:Y:652:PRO:HG2	1.97	0.45
1:X:276:ASN:OD1	1:X:615:ILE:N	2.46	0.45
1:X:541:GLY:HA3	1:X:554:ASN:O	2.17	0.45
1:a:308:ASN:HB2	1:a:675:GLN:HG2	1.98	0.45
1:h:308:ASN:HB2	1:h:675:GLN:HG2	1.98	0.45
1:h:541:GLY:HA3	1:h:554:ASN:O	2.17	0.45
1:j:658:THR:HG22	1:j:659:PHE:N	2.32	0.45
1:o:242:VAL:HB	1:7:652:PRO:HG2	1.97	0.45
1:t:242:VAL:HB	1:6:652:PRO:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:294:ASN:OD1	1:t:686:LYS:HD3	2.16	0.45
1:t:652:PRO:HG2	1:y:242:VAL:HB	1.99	0.45
1:u:541:GLY:HA3	1:u:554:ASN:O	2.16	0.45
1:v:242:VAL:HB	1:w:652:PRO:HG2	1.99	0.45
1:v:294:ASN:OD1	1:v:686:LYS:HD3	2.16	0.45
1:v:541:GLY:HA3	1:v:554:ASN:O	2.17	0.45
1:x:240:THR:O	1:x:360:VAL:HG23	2.15	0.45
1:x:467:TYR:HE1	1:y:349:GLN:HE21	1.63	0.45
1:3:242:VAL:HB	1:8:652:PRO:HG2	1.99	0.45
1:5:491:LYS:HE2	1:7:452:ALA:HB2	1.98	0.45
1:5:652:PRO:HG2	1:8:242:VAL:HB	1.99	0.45
1:6:433:GLN:HG2	1:7:348:GLY:O	2.15	0.45
1:6:467:TYR:HE1	1:7:349:GLN:HE21	1.63	0.45
1:8:308:ASN:HB2	1:8:675:GLN:HG2	1.98	0.45
1:8:608:ASP:OD1	1:8:609:ILE:N	2.48	0.45
1:A:308:ASN:HB2	1:A:675:GLN:HG2	1.98	0.45
1:A:541:GLY:HA3	1:A:554:ASN:O	2.17	0.45
1:B:253:ARG:NH2	1:B:379:GLN:HE22	2.00	0.45
1:B:691:ARG:HD3	1:B:695:GLU:HG3	1.97	0.45
1:D:253:ARG:NH2	1:D:379:GLN:HE22	2.00	0.45
1:D:467:TYR:HE1	1:N:349:GLN:HE21	1.63	0.45
1:F:349:GLN:HE21	1:Q:467:TYR:HE1	1.63	0.45
1:F:658:THR:HG22	1:F:659:PHE:N	2.32	0.45
1:H:652:PRO:HG2	1:Z:242:VAL:HB	1.99	0.45
1:I:294:ASN:OD1	1:I:686:LYS:HD3	2.16	0.45
1:L:288:GLN:NE2	1:L:698:PHE:O	2.47	0.45
1:M:541:GLY:HA3	1:M:554:ASN:O	2.17	0.45
1:N:433:GLN:HG2	1:P:348:GLY:O	2.16	0.45
1:Q:240:THR:O	1:Q:360:VAL:HG23	2.15	0.45
1:Q:658:THR:HG22	1:Q:659:PHE:N	2.32	0.45
1:T:658:THR:HG22	1:T:659:PHE:N	2.32	0.45
1:U:294:ASN:OD1	1:U:686:LYS:HD3	2.17	0.45
1:V:276:ASN:OD1	1:V:615:ILE:N	2.46	0.45
1:V:308:ASN:HB2	1:V:675:GLN:HG2	1.99	0.45
1:W:433:GLN:HG2	1:Y:348:GLY:O	2.15	0.45
1:Y:276:ASN:OD1	1:Y:615:ILE:N	2.46	0.45
1:Z:308:ASN:HB2	1:Z:675:GLN:HG2	1.98	0.45
1:Z:608:ASP:OD1	1:Z:609:ILE:N	2.48	0.45
1:Z:652:PRO:HG2	1:a:242:VAL:HB	1.99	0.45
1:a:691:ARG:HD3	1:a:695:GLU:HG3	1.97	0.45
1:b:658:THR:HG22	1:b:659:PHE:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:658:THR:HG22	1:d:659:PHE:N	2.32	0.45
1:e:294:ASN:OD1	1:e:686:LYS:HD3	2.17	0.45
1:e:299:PRO:HD3	1:e:635:PHE:CE2	2.50	0.45
1:f:658:THR:HG22	1:f:659:PHE:N	2.32	0.45
1:g:242:VAL:HB	1:l:652:PRO:HG2	1.99	0.45
1:g:308:ASN:HB2	1:g:675:GLN:HG2	1.99	0.45
1:m:294:ASN:OD1	1:m:686:LYS:HD3	2.16	0.45
1:o:541:GLY:HA3	1:o:554:ASN:O	2.17	0.45
1:p:308:ASN:HB2	1:p:675:GLN:HG2	1.99	0.45
1:s:276:ASN:OD1	1:s:615:ILE:N	2.46	0.45
1:t:541:GLY:HA3	1:t:554:ASN:O	2.17	0.45
1:v:652:PRO:HG2	1:l:242:VAL:HB	1.99	0.45
1:w:467:TYR:HE1	1:x:349:GLN:HE21	1.64	0.45
1:z:308:ASN:HB2	1:z:675:GLN:HG2	1.99	0.45
1:1:691:ARG:HD3	1:1:695:GLU:HG3	1.97	0.45
1:2:288:GLN:NE2	1:2:698:PHE:O	2.47	0.45
1:2:294:ASN:OD1	1:2:686:LYS:HD3	2.16	0.45
1:2:608:ASP:OD1	1:2:609:ILE:N	2.48	0.45
1:3:308:ASN:HB2	1:3:675:GLN:HG2	1.98	0.45
1:3:691:ARG:HD3	1:3:695:GLU:HG3	1.97	0.45
1:6:294:ASN:OD1	1:6:686:LYS:HD3	2.16	0.45
1:7:276:ASN:OD1	1:7:615:ILE:N	2.46	0.45
1:A:242:VAL:HB	1:E:652:PRO:HG2	1.99	0.45
1:A:294:ASN:OD1	1:A:686:LYS:HD3	2.16	0.45
1:C:308:ASN:HB2	1:C:675:GLN:HG2	1.99	0.45
1:D:349:GLN:HE21	1:P:467:TYR:HE1	1.64	0.45
1:E:253:ARG:NH2	1:E:379:GLN:HE22	2.00	0.45
1:E:467:TYR:HE1	1:Q:349:GLN:HE21	1.64	0.45
1:H:491:LYS:HE2	1:Y:452:ALA:HB2	1.98	0.45
1:H:541:GLY:HA3	1:H:554:ASN:O	2.17	0.45
1:I:288:GLN:NE2	1:I:698:PHE:O	2.47	0.45
1:I:541:GLY:HA3	1:I:554:ASN:O	2.17	0.45
1:J:288:GLN:NE2	1:J:698:PHE:O	2.47	0.45
1:J:294:ASN:OD1	1:J:686:LYS:HD3	2.16	0.45
1:J:541:GLY:HA3	1:J:554:ASN:O	2.16	0.45
1:J:658:THR:HG22	1:J:659:PHE:N	2.32	0.45
1:K:541:GLY:HA3	1:K:554:ASN:O	2.17	0.45
1:L:541:GLY:HA3	1:L:554:ASN:O	2.17	0.45
1:L:658:THR:HG22	1:L:659:PHE:N	2.32	0.45
1:O:294:ASN:OD1	1:O:686:LYS:HD3	2.17	0.45
1:P:242:VAL:HB	1:Q:652:PRO:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:467:TYR:HE1	1:U:349:GLN:HE21	1.64	0.45
1:S:541:GLY:HA3	1:S:554:ASN:O	2.16	0.45
1:T:294:ASN:OD1	1:T:686:LYS:HD3	2.17	0.45
1:W:541:GLY:HA3	1:W:554:ASN:O	2.17	0.45
1:X:652:PRO:HG2	1:f:242:VAL:HB	1.99	0.45
1:b:242:VAL:HB	1:o:652:PRO:HG2	1.99	0.45
1:c:294:ASN:OD1	1:c:686:LYS:HD3	2.17	0.45
1:c:299:PRO:HD3	1:c:635:PHE:CE2	2.50	0.45
1:d:253:ARG:NH2	1:d:379:GLN:HE22	2.00	0.45
1:h:658:THR:HG22	1:h:659:PHE:N	2.32	0.45
1:i:349:GLN:HE21	1:k:467:TYR:HE1	1.63	0.45
1:j:299:PRO:HD3	1:j:635:PHE:CE2	2.50	0.45
1:j:433:GLN:HG2	1:k:348:GLY:O	2.15	0.45
1:j:467:TYR:HE1	1:k:349:GLN:HE21	1.63	0.45
1:m:658:THR:HG22	1:m:659:PHE:N	2.32	0.45
1:r:541:GLY:HA3	1:r:554:ASN:O	2.16	0.45
1:s:294:ASN:OD1	1:s:686:LYS:HD3	2.17	0.45
1:u:294:ASN:OD1	1:u:686:LYS:HD3	2.16	0.45
1:v:308:ASN:HB2	1:v:675:GLN:HG2	1.99	0.45
1:y:658:THR:HG22	1:y:659:PHE:N	2.32	0.45
1:2:276:ASN:OD1	1:2:615:ILE:N	2.46	0.45
1:2:658:THR:HG22	1:2:659:PHE:N	2.32	0.45
1:4:541:GLY:HA3	1:4:554:ASN:O	2.17	0.45
1:4:658:THR:HG22	1:4:659:PHE:N	2.32	0.45
1:5:541:GLY:HA3	1:5:554:ASN:O	2.17	0.45
1:6:308:ASN:HB2	1:6:675:GLN:HG2	1.99	0.45
1:8:541:GLY:HA3	1:8:554:ASN:O	2.17	0.45
1:C:658:THR:HG22	1:C:659:PHE:N	2.32	0.45
1:D:415:SER:OG	1:N:623:ASP:OD1	2.28	0.45
1:E:623:ASP:OD1	1:F:415:SER:OG	2.28	0.45
1:I:242:VAL:HB	1:J:652:PRO:HG2	1.99	0.45
1:J:276:ASN:OD1	1:J:615:ILE:N	2.46	0.45
1:K:330:THR:HG22	1:K:397:ARG:HG3	1.99	0.45
1:K:658:THR:HG22	1:K:659:PHE:N	2.32	0.45
1:L:308:ASN:HB2	1:L:675:GLN:HG2	1.99	0.45
1:M:349:GLN:HE21	1:b:467:TYR:HE1	1.63	0.45
1:M:658:THR:HG22	1:M:659:PHE:N	2.32	0.45
1:O:435:LEU:HD13	1:O:468:ARG:HG3	1.99	0.45
1:P:299:PRO:HD3	1:P:635:PHE:CE2	2.50	0.45
1:Q:227:THR:HG23	1:Q:227:THR:O	2.17	0.45
1:R:294:ASN:OD1	1:R:686:LYS:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:294:ASN:OD1	1:S:686:LYS:HD3	2.16	0.45
1:T:541:GLY:HA3	1:T:554:ASN:O	2.16	0.45
1:W:308:ASN:HB2	1:W:675:GLN:HG2	1.99	0.45
1:W:658:THR:HG22	1:W:659:PHE:N	2.32	0.45
1:Y:658:THR:HG22	1:Y:659:PHE:N	2.32	0.45
1:Z:541:GLY:HA3	1:Z:554:ASN:O	2.17	0.45
1:g:294:ASN:OD1	1:g:686:LYS:HD3	2.16	0.45
1:g:445:GLU:OE1	1:g:445:GLU:N	2.47	0.45
1:g:541:GLY:HA3	1:g:554:ASN:O	2.17	0.45
1:i:491:LYS:HE2	1:k:452:ALA:HB2	1.99	0.45
1:j:435:LEU:HD13	1:j:468:ARG:HG3	1.99	0.45
1:l:435:LEU:HD13	1:l:468:ARG:HG3	1.99	0.45
1:r:467:TYR:HE1	1:s:349:GLN:HE21	1.64	0.45
1:s:658:THR:HG22	1:s:659:PHE:N	2.32	0.45
1:x:227:THR:HG23	1:x:227:THR:O	2.17	0.45
1:z:288:GLN:NE2	1:z:698:PHE:O	2.47	0.45
1:z:658:THR:HG22	1:z:659:PHE:N	2.32	0.45
1:4:308:ASN:HB2	1:4:675:GLN:HG2	1.98	0.45
1:4:330:THR:HG22	1:4:397:ARG:HG3	1.99	0.45
1:6:541:GLY:HA3	1:6:554:ASN:O	2.17	0.45
1:6:658:THR:HG22	1:6:659:PHE:N	2.32	0.45
1:A:330:THR:HG22	1:A:397:ARG:HG3	1.99	0.45
1:C:253:ARG:NH2	1:C:379:GLN:HE22	2.00	0.45
1:C:294:ASN:OD1	1:C:686:LYS:HD3	2.16	0.45
1:C:541:GLY:HA3	1:C:554:ASN:O	2.17	0.45
1:E:541:GLY:HA3	1:E:554:ASN:O	2.17	0.45
1:F:464:PHE:HA	1:F:467:TYR:CD2	2.52	0.45
1:G:464:PHE:HA	1:G:467:TYR:CD2	2.52	0.45
1:H:435:LEU:HD13	1:H:468:ARG:HG3	1.99	0.45
1:I:658:THR:HG22	1:I:659:PHE:N	2.32	0.45
1:K:308:ASN:HB2	1:K:675:GLN:HG2	1.98	0.45
1:R:330:THR:HG22	1:R:397:ARG:HG3	1.99	0.45
1:U:276:ASN:OD1	1:U:615:ILE:N	2.46	0.45
1:U:541:GLY:HA3	1:U:554:ASN:O	2.17	0.45
1:U:658:THR:HG22	1:U:659:PHE:N	2.32	0.45
1:X:714:THR:O	1:Y:252:LEU:HD22	2.17	0.45
1:Z:658:THR:HG22	1:Z:659:PHE:N	2.32	0.45
1:a:276:ASN:OD1	1:a:615:ILE:N	2.46	0.45
1:c:464:PHE:HA	1:c:467:TYR:CD2	2.52	0.45
1:c:658:THR:HG22	1:c:659:PHE:N	2.32	0.45
1:e:464:PHE:HA	1:e:467:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:484:LYS:HE2	1:e:557:PHE:HE2	1.82	0.45
1:e:658:THR:HG22	1:e:659:PHE:N	2.32	0.45
1:f:467:TYR:HE1	1:h:349:GLN:HE21	1.63	0.45
1:g:299:PRO:HD3	1:g:635:PHE:CE2	2.50	0.45
1:g:349:GLN:HE21	1:h:467:TYR:HE1	1.63	0.45
1:g:658:THR:HG22	1:g:659:PHE:N	2.32	0.45
1:i:464:PHE:HA	1:i:467:TYR:CD2	2.52	0.45
1:l:294:ASN:OD1	1:l:686:LYS:HD3	2.17	0.45
1:o:464:PHE:HA	1:o:467:TYR:CD2	2.52	0.45
1:o:714:THR:O	1:7:252:LEU:HD22	2.17	0.45
1:q:294:ASN:OD1	1:q:686:LYS:HD3	2.17	0.45
1:q:330:THR:HG22	1:q:397:ARG:HG3	1.99	0.45
1:r:276:ASN:OD1	1:r:615:ILE:N	2.46	0.45
1:s:541:GLY:HA3	1:s:554:ASN:O	2.17	0.45
1:t:464:PHE:HA	1:t:467:TYR:CD2	2.52	0.45
1:u:242:VAL:HB	1:2:652:PRO:HG2	1.99	0.45
1:u:288:GLN:NE2	1:u:698:PHE:O	2.47	0.45
1:u:435:LEU:HD13	1:u:468:ARG:HG3	1.99	0.45
1:u:658:THR:HG22	1:u:659:PHE:N	2.32	0.45
1:w:541:GLY:HA3	1:w:554:ASN:O	2.17	0.45
1:y:330:THR:HG22	1:y:397:ARG:HG3	1.99	0.45
1:y:464:PHE:HA	1:y:467:TYR:CD2	2.52	0.45
1:z:541:GLY:HA3	1:z:554:ASN:O	2.17	0.45
1:1:435:LEU:HD13	1:1:468:ARG:HG3	1.99	0.45
1:1:464:PHE:HA	1:1:467:TYR:CD2	2.52	0.45
1:2:242:VAL:HB	1:3:652:PRO:HG2	1.99	0.45
1:2:541:GLY:HA3	1:2:554:ASN:O	2.16	0.45
1:7:658:THR:HG22	1:7:659:PHE:N	2.32	0.45
1:A:435:LEU:HD13	1:A:468:ARG:HG3	1.99	0.45
1:B:435:LEU:HD13	1:B:468:ARG:HG3	1.99	0.45
1:B:464:PHE:HA	1:B:467:TYR:CD2	2.52	0.45
1:C:299:PRO:HD3	1:C:635:PHE:CE2	2.50	0.45
1:C:349:GLN:HE21	1:M:467:TYR:HE1	1.63	0.45
1:C:445:GLU:OE1	1:C:445:GLU:N	2.47	0.45
1:D:452:ALA:HB2	1:N:491:LYS:HE2	1.99	0.45
1:E:435:LEU:HD13	1:E:468:ARG:HG3	1.99	0.45
1:F:330:THR:HG22	1:F:397:ARG:HG3	1.99	0.45
1:I:435:LEU:HD13	1:I:468:ARG:HG3	1.99	0.45
1:J:242:VAL:HB	1:a:652:PRO:HG2	1.99	0.45
1:L:464:PHE:HA	1:L:467:TYR:CD2	2.52	0.45
1:N:464:PHE:HA	1:N:467:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:435:LEU:HD13	1:P:468:ARG:HG3	1.99	0.45
1:T:308:ASN:HB2	1:T:675:GLN:HG2	1.98	0.45
1:W:464:PHE:HA	1:W:467:TYR:CD2	2.52	0.45
1:X:464:PHE:HA	1:X:467:TYR:CD2	2.52	0.45
1:Y:330:THR:HG22	1:Y:397:ARG:HG3	1.99	0.45
1:Y:445:GLU:OE1	1:Y:445:GLU:N	2.47	0.45
1:Y:541:GLY:HA3	1:Y:554:ASN:O	2.17	0.45
1:c:484:LYS:HE2	1:c:557:PHE:HE2	1.82	0.45
1:d:541:GLY:HA3	1:d:554:ASN:O	2.17	0.45
1:f:288:GLN:NE2	1:f:698:PHE:O	2.47	0.45
1:h:242:VAL:HB	1:i:652:PRO:HG2	1.97	0.45
1:j:541:GLY:HA3	1:j:554:ASN:O	2.16	0.45
1:n:253:ARG:NH2	1:n:379:GLN:HE22	2.00	0.45
1:r:308:ASN:HB2	1:r:675:GLN:HG2	1.99	0.45
1:t:344:VAL:HB	1:v:428:ASN:HB2	1.99	0.45
1:t:658:THR:HG22	1:t:659:PHE:N	2.32	0.45
1:u:276:ASN:OD1	1:u:615:ILE:N	2.46	0.45
1:u:464:PHE:HA	1:u:467:TYR:CD2	2.52	0.45
1:v:330:THR:HG22	1:v:397:ARG:HG3	1.99	0.45
1:v:435:LEU:HD13	1:v:468:ARG:HG3	1.99	0.45
1:z:464:PHE:HA	1:z:467:TYR:CD2	2.52	0.45
1:z:652:PRO:HG2	1:4:242:VAL:HB	1.98	0.45
1:3:294:ASN:OD1	1:3:686:LYS:HD3	2.17	0.45
1:5:435:LEU:HD13	1:5:468:ARG:HG3	1.99	0.45
1:6:464:PHE:HA	1:6:467:TYR:CD2	2.52	0.45
1:7:330:THR:HG22	1:7:397:ARG:HG3	1.99	0.45
1:7:445:GLU:OE1	1:7:445:GLU:N	2.47	0.45
1:8:253:ARG:HH21	1:8:379:GLN:NE2	1.99	0.45
1:8:658:THR:HG22	1:8:659:PHE:N	2.32	0.45
1:B:658:THR:HG22	1:B:659:PHE:N	2.32	0.45
1:D:308:ASN:HB2	1:D:675:GLN:HG2	1.99	0.45
1:G:658:THR:HG22	1:G:659:PHE:N	2.32	0.45
1:I:464:PHE:HA	1:I:467:TYR:CD2	2.52	0.45
1:L:435:LEU:HD13	1:L:468:ARG:HG3	1.99	0.45
1:O:464:PHE:HA	1:O:467:TYR:CD2	2.52	0.45
1:P:541:GLY:HA3	1:P:554:ASN:O	2.17	0.45
1:Q:242:VAL:HB	1:S:652:PRO:HG2	1.99	0.45
1:Q:294:ASN:OD1	1:Q:686:LYS:HD3	2.16	0.45
1:S:308:ASN:HB2	1:S:675:GLN:HG2	1.99	0.45
1:S:330:THR:HG22	1:S:397:ARG:HG3	1.99	0.45
1:Z:464:PHE:HA	1:Z:467:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:294:ASN:OD1	1:a:686:LYS:HD3	2.17	0.45
1:e:445:GLU:OE1	1:e:445:GLU:N	2.47	0.45
1:g:435:LEU:HD13	1:g:468:ARG:HG3	1.99	0.45
1:h:325:ASN:HD21	1:i:328:THR:HG1	1.62	0.45
1:i:541:GLY:HA3	1:i:554:ASN:O	2.17	0.45
1:i:658:THR:HG22	1:i:659:PHE:N	2.32	0.45
1:j:330:THR:HG22	1:j:397:ARG:HG3	1.99	0.45
1:k:227:THR:O	1:k:227:THR:HG23	2.17	0.45
1:k:308:ASN:HB2	1:k:675:GLN:HG2	1.98	0.45
1:l:464:PHE:HA	1:l:467:TYR:CD2	2.52	0.45
1:m:308:ASN:HB2	1:m:675:GLN:HG2	1.98	0.45
1:m:541:GLY:HA3	1:m:554:ASN:O	2.17	0.45
1:n:541:GLY:HA3	1:n:554:ASN:O	2.17	0.45
1:q:541:GLY:HA3	1:q:554:ASN:O	2.16	0.45
1:r:294:ASN:OD1	1:r:686:LYS:HD3	2.16	0.45
1:r:330:THR:HG22	1:r:397:ARG:HG3	1.99	0.45
1:r:652:PRO:HG2	1:x:242:VAL:HB	1.99	0.45
1:t:268:THR:OG1	1:t:366:TYR:O	2.24	0.45
1:w:253:ARG:NH2	1:w:379:GLN:HE22	2.00	0.45
1:w:294:ASN:OD1	1:w:686:LYS:HD3	2.16	0.45
1:x:294:ASN:OD1	1:x:686:LYS:HD3	2.17	0.45
1:6:445:GLU:OE1	1:6:445:GLU:N	2.47	0.45
1:8:464:PHE:HA	1:8:467:TYR:CD2	2.52	0.45
1:C:288:GLN:NE2	1:C:698:PHE:O	2.47	0.44
1:C:435:LEU:HD13	1:C:468:ARG:HG3	1.99	0.44
1:D:227:THR:O	1:D:227:THR:HG23	2.17	0.44
1:H:330:THR:HG22	1:H:397:ARG:HG3	1.99	0.44
1:J:227:THR:O	1:J:227:THR:HG23	2.17	0.44
1:J:435:LEU:HD13	1:J:468:ARG:HG3	1.99	0.44
1:J:464:PHE:HA	1:J:467:TYR:CD2	2.52	0.44
1:K:242:VAL:HB	1:L:652:PRO:HG2	1.99	0.44
1:K:484:LYS:HE2	1:K:557:PHE:HE2	1.82	0.44
1:M:242:VAL:HB	1:N:652:PRO:HG2	1.97	0.44
1:M:464:PHE:HA	1:M:467:TYR:CD2	2.52	0.44
1:N:541:GLY:HA3	1:N:554:ASN:O	2.17	0.44
1:N:658:THR:HG22	1:N:659:PHE:N	2.32	0.44
1:O:652:PRO:HG2	1:d:242:VAL:HB	1.99	0.44
1:P:330:THR:HG22	1:P:397:ARG:HG3	1.99	0.44
1:Q:541:GLY:HA3	1:Q:554:ASN:O	2.16	0.44
1:R:227:THR:O	1:R:227:THR:HG23	2.17	0.44
1:R:464:PHE:HA	1:R:467:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:541:GLY:HA3	1:R:554:ASN:O	2.16	0.44
1:S:276:ASN:OD1	1:S:615:ILE:N	2.46	0.44
1:T:484:LYS:HE2	1:T:557:PHE:HE2	1.82	0.44
1:V:464:PHE:HA	1:V:467:TYR:CD2	2.52	0.44
1:Z:435:LEU:HD13	1:Z:468:ARG:HG3	1.99	0.44
1:b:308:ASN:HB2	1:b:675:GLN:HG2	1.99	0.44
1:b:484:LYS:HE2	1:b:557:PHE:HE2	1.82	0.44
1:c:435:LEU:HD13	1:c:468:ARG:HG3	1.99	0.44
1:c:445:GLU:OE1	1:c:445:GLU:N	2.47	0.44
1:d:294:ASN:OD1	1:d:686:LYS:HD3	2.16	0.44
1:d:484:LYS:HE2	1:d:557:PHE:HE2	1.82	0.44
1:e:253:ARG:NH2	1:e:379:GLN:HE22	2.00	0.44
1:e:435:LEU:HD13	1:e:468:ARG:HG3	1.99	0.44
1:f:308:ASN:HB2	1:f:675:GLN:HG2	1.99	0.44
1:f:330:THR:HG22	1:f:397:ARG:HG3	1.99	0.44
1:f:484:LYS:HE2	1:f:557:PHE:HE2	1.82	0.44
1:f:652:PRO:HG2	1:z:242:VAL:HB	1.99	0.44
1:h:464:PHE:HA	1:h:467:TYR:CD2	2.52	0.44
1:i:308:ASN:HB2	1:i:675:GLN:HG2	1.98	0.44
1:i:433:GLN:HG2	1:j:348:GLY:O	2.17	0.44
1:k:253:ARG:NH2	1:k:379:GLN:HE22	2.00	0.44
1:l:652:PRO:HG2	1:n:242:VAL:HB	1.99	0.44
1:m:484:LYS:HE2	1:m:557:PHE:HE2	1.82	0.44
1:n:435:LEU:HD13	1:n:468:ARG:HG3	1.99	0.44
1:n:484:LYS:HE2	1:n:557:PHE:HE2	1.82	0.44
1:p:294:ASN:OD1	1:p:686:LYS:HD3	2.16	0.44
1:p:464:PHE:HA	1:p:467:TYR:CD2	2.52	0.44
1:q:227:THR:O	1:q:227:THR:HG23	2.17	0.44
1:v:445:GLU:OE1	1:v:445:GLU:N	2.47	0.44
1:w:288:GLN:NE2	1:w:698:PHE:O	2.47	0.44
1:w:435:LEU:HD13	1:w:468:ARG:HG3	1.99	0.44
1:x:541:GLY:HA3	1:x:554:ASN:O	2.17	0.44
1:1:658:THR:HG22	1:1:659:PHE:N	2.32	0.44
1:2:227:THR:O	1:2:227:THR:HG23	2.17	0.44
1:2:435:LEU:HD13	1:2:468:ARG:HG3	1.99	0.44
1:2:464:PHE:HA	1:2:467:TYR:CD2	2.52	0.44
1:7:288:GLN:NE2	1:7:698:PHE:O	2.47	0.44
1:7:541:GLY:HA3	1:7:554:ASN:O	2.17	0.44
1:E:288:GLN:NE2	1:E:698:PHE:O	2.47	0.44
1:E:294:ASN:OD1	1:E:686:LYS:HD3	2.16	0.44
1:E:330:THR:HG22	1:E:397:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:276:ASN:OD1	1:I:615:ILE:N	2.46	0.44
1:K:294:ASN:OD1	1:K:686:LYS:HD3	2.17	0.44
1:K:344:VAL:HB	1:8:428:ASN:HB2	2.00	0.44
1:K:435:LEU:HD13	1:K:468:ARG:HG3	1.99	0.44
1:L:242:VAL:HB	1:b:652:PRO:HG2	1.99	0.44
1:N:308:ASN:HB2	1:N:675:GLN:HG2	1.98	0.44
1:O:658:THR:HG22	1:O:659:PHE:N	2.32	0.44
1:P:276:ASN:OD1	1:P:615:ILE:N	2.46	0.44
1:P:484:LYS:HE2	1:P:557:PHE:HE2	1.82	0.44
1:Q:435:LEU:HD13	1:Q:468:ARG:HG3	1.99	0.44
1:R:428:ASN:HB2	1:S:344:VAL:HB	2.00	0.44
1:T:330:THR:HG22	1:T:397:ARG:HG3	1.99	0.44
1:W:428:ASN:HB2	1:Y:344:VAL:HB	1.99	0.44
1:W:435:LEU:HD13	1:W:468:ARG:HG3	1.99	0.44
1:W:445:GLU:OE1	1:W:445:GLU:N	2.47	0.44
1:Z:227:THR:O	1:Z:227:THR:HG23	2.17	0.44
1:Z:428:ASN:HB2	1:4:344:VAL:HB	2.00	0.44
1:b:288:GLN:NE2	1:b:698:PHE:O	2.47	0.44
1:b:330:THR:HG22	1:b:397:ARG:HG3	1.99	0.44
1:d:308:ASN:HB2	1:d:675:GLN:HG2	1.98	0.44
1:d:435:LEU:HD13	1:d:468:ARG:HG3	1.99	0.44
1:g:288:GLN:NE2	1:g:698:PHE:O	2.47	0.44
1:q:428:ASN:HB2	1:r:344:VAL:HB	2.00	0.44
1:q:464:PHE:HA	1:q:467:TYR:CD2	2.52	0.44
1:x:276:ASN:OD1	1:x:615:ILE:N	2.46	0.44
1:x:435:LEU:HD13	1:x:468:ARG:HG3	1.99	0.44
1:x:464:PHE:HA	1:x:467:TYR:CD2	2.52	0.44
1:z:435:LEU:HD13	1:z:468:ARG:HG3	1.99	0.44
1:3:541:GLY:HA3	1:3:554:ASN:O	2.17	0.44
1:4:294:ASN:OD1	1:4:686:LYS:HD3	2.16	0.44
1:4:484:LYS:HE2	1:4:557:PHE:HE2	1.82	0.44
1:5:330:THR:HG22	1:5:397:ARG:HG3	1.99	0.44
1:6:435:LEU:HD13	1:6:468:ARG:HG3	1.99	0.44
1:7:308:ASN:HB2	1:7:675:GLN:HG2	1.98	0.44
1:7:464:PHE:HA	1:7:467:TYR:CD2	2.52	0.44
1:8:435:LEU:HD13	1:8:468:ARG:HG3	1.99	0.44
1:A:714:THR:O	1:E:252:LEU:HD22	2.18	0.44
1:H:428:ASN:HB2	1:W:344:VAL:HB	2.00	0.44
1:I:714:THR:O	1:J:252:LEU:HD22	2.18	0.44
1:M:288:GLN:NE2	1:M:698:PHE:O	2.47	0.44
1:M:325:ASN:HD21	1:N:328:THR:HG1	1.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:330:THR:HG22	1:M:397:ARG:HG3	1.99	0.44
1:M:435:LEU:HD13	1:M:468:ARG:HG3	1.99	0.44
1:M:652:PRO:HG2	1:c:242:VAL:HB	1.99	0.44
1:O:330:THR:HG22	1:O:397:ARG:HG3	1.99	0.44
1:Q:308:ASN:HB2	1:Q:675:GLN:HG2	1.98	0.44
1:Q:464:PHE:HA	1:Q:467:TYR:CD2	2.52	0.44
1:V:294:ASN:OD1	1:V:686:LYS:HD3	2.16	0.44
1:W:605:GLN:HA	1:Y:623:ASP:HB2	1.99	0.44
1:Y:288:GLN:NE2	1:Y:698:PHE:O	2.47	0.44
1:Y:308:ASN:HB2	1:Y:675:GLN:HG2	1.99	0.44
1:Z:330:THR:HG22	1:Z:397:ARG:HG3	1.99	0.44
1:c:330:THR:HG22	1:c:397:ARG:HG3	1.99	0.44
1:c:428:ASN:HB2	1:o:344:VAL:HB	1.99	0.44
1:d:227:THR:O	1:d:227:THR:HG23	2.17	0.44
1:e:242:VAL:HB	1:h:652:PRO:HG2	1.99	0.44
1:e:330:THR:HG22	1:e:397:ARG:HG3	1.99	0.44
1:h:253:ARG:NH2	1:h:379:GLN:HE22	2.00	0.44
1:h:435:LEU:HD13	1:h:468:ARG:HG3	1.99	0.44
1:i:330:THR:HG22	1:i:397:ARG:HG3	1.99	0.44
1:i:576:GLN:HB2	1:j:506:HIS:CE1	2.53	0.44
1:j:276:ASN:OD1	1:j:615:ILE:N	2.46	0.44
1:m:330:THR:HG22	1:m:397:ARG:HG3	1.99	0.44
1:n:252:LEU:HD22	1:r:714:THR:O	2.18	0.44
1:n:288:GLN:NE2	1:n:698:PHE:O	2.47	0.44
1:n:294:ASN:OD1	1:n:686:LYS:HD3	2.16	0.44
1:r:435:LEU:HD13	1:r:468:ARG:HG3	1.99	0.44
1:w:330:THR:HG22	1:w:397:ARG:HG3	1.99	0.44
1:y:308:ASN:HB2	1:y:675:GLN:HG2	1.99	0.44
1:1:330:THR:HG22	1:1:397:ARG:HG3	1.99	0.44
1:2:308:ASN:HB2	1:2:675:GLN:HG2	1.99	0.44
1:6:428:ASN:HB2	1:7:344:VAL:HB	1.99	0.44
1:8:227:THR:O	1:8:227:THR:HG23	2.17	0.44
1:A:428:ASN:HB2	1:G:344:VAL:HB	2.00	0.44
1:A:445:GLU:OE1	1:A:445:GLU:N	2.47	0.44
1:B:330:THR:HG22	1:B:397:ARG:HG3	1.99	0.44
1:B:344:VAL:HB	1:L:428:ASN:HB2	2.00	0.44
1:F:308:ASN:HB2	1:F:675:GLN:HG2	1.99	0.44
1:G:330:THR:HG22	1:G:397:ARG:HG3	1.99	0.44
1:H:242:VAL:HB	1:I:652:PRO:HG2	1.98	0.44
1:H:294:ASN:OD1	1:H:686:LYS:HD3	2.17	0.44
1:H:464:PHE:HA	1:H:467:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:484:LYS:HE2	1:H:557:PHE:HE2	1.82	0.44
1:J:308:ASN:HB2	1:J:675:GLN:HG2	1.99	0.44
1:M:253:ARG:NH2	1:M:379:GLN:HE22	2.00	0.44
1:N:330:THR:HG22	1:N:397:ARG:HG3	1.99	0.44
1:Q:276:ASN:OD1	1:Q:615:ILE:N	2.46	0.44
1:R:288:GLN:NE2	1:R:698:PHE:O	2.47	0.44
1:S:435:LEU:HD13	1:S:468:ARG:HG3	1.99	0.44
1:S:714:THR:O	1:d:252:LEU:HD22	2.18	0.44
1:W:452:ALA:HB2	1:Y:491:LYS:HE2	1.99	0.44
1:X:344:VAL:HB	1:e:428:ASN:HB2	1.99	0.44
1:Y:464:PHE:HA	1:Y:467:TYR:CD2	2.52	0.44
1:a:435:LEU:HD13	1:a:468:ARG:HG3	1.99	0.44
1:a:541:GLY:HA3	1:a:554:ASN:O	2.17	0.44
1:f:252:LEU:HD22	1:z:714:THR:O	2.18	0.44
1:i:294:ASN:OD1	1:i:686:LYS:HD3	2.16	0.44
1:l:658:THR:HG22	1:l:659:PHE:N	2.32	0.44
1:n:227:THR:O	1:n:227:THR:HG23	2.17	0.44
1:n:308:ASN:HB2	1:n:675:GLN:HG2	1.98	0.44
1:q:268:THR:OG1	1:q:366:TYR:O	2.24	0.44
1:u:714:THR:O	1:2:252:LEU:HD22	2.18	0.44
1:v:464:PHE:HA	1:v:467:TYR:CD2	2.52	0.44
1:x:308:ASN:HB2	1:x:675:GLN:HG2	1.99	0.44
1:x:330:THR:HG22	1:x:397:ARG:HG3	1.99	0.44
1:z:428:ASN:HB2	1:1:344:VAL:HB	2.00	0.44
1:1:227:THR:O	1:1:227:THR:HG23	2.17	0.44
1:4:435:LEU:HD13	1:4:468:ARG:HG3	1.99	0.44
1:4:464:PHE:HA	1:4:467:TYR:CD2	2.52	0.44
1:5:294:ASN:OD1	1:5:686:LYS:HD3	2.17	0.44
1:5:428:ASN:HB2	1:6:344:VAL:HB	2.00	0.44
1:5:506:HIS:CE1	1:7:576:GLN:HB2	2.52	0.44
1:6:484:LYS:HE2	1:6:557:PHE:HE2	1.82	0.44
1:6:605:GLN:HA	1:7:623:ASP:HB2	1.99	0.44
1:8:330:THR:HG22	1:8:397:ARG:HG3	1.99	0.44
1:A:506:HIS:CE1	1:I:576:GLN:HB2	2.53	0.44
1:G:268:THR:OG1	1:G:366:TYR:O	2.24	0.44
1:H:227:THR:O	1:H:227:THR:HG23	2.17	0.44
1:H:252:LEU:HD22	1:Z:714:THR:O	2.18	0.44
1:K:428:ASN:HB2	1:a:344:VAL:HB	2.00	0.44
1:K:464:PHE:HA	1:K:467:TYR:CD2	2.52	0.44
1:L:714:THR:O	1:b:252:LEU:HD22	2.18	0.44
1:O:623:ASP:OD1	1:n:415:SER:OG	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:464:PHE:HA	1:P:467:TYR:CD2	2.52	0.44
1:Q:330:THR:HG22	1:Q:397:ARG:HG3	1.99	0.44
1:S:227:THR:O	1:S:227:THR:HG23	2.17	0.44
1:W:484:LYS:HE2	1:W:557:PHE:HE2	1.82	0.44
1:Z:253:ARG:HH21	1:Z:379:GLN:NE2	1.99	0.44
1:d:415:SER:OG	1:l:623:ASP:OD1	2.28	0.44
1:d:464:PHE:HA	1:d:467:TYR:CD2	2.52	0.44
1:f:464:PHE:HA	1:f:467:TYR:CD2	2.52	0.44
1:h:330:THR:HG22	1:h:397:ARG:HG3	1.99	0.44
1:i:605:GLN:HA	1:j:623:ASP:HB2	2.00	0.44
1:j:227:THR:HG23	1:j:227:THR:O	2.17	0.44
1:j:484:LYS:HE2	1:j:557:PHE:HE2	1.82	0.44
1:l:330:THR:HG22	1:l:397:ARG:HG3	1.99	0.44
1:m:464:PHE:HA	1:m:467:TYR:CD2	2.52	0.44
1:m:714:THR:O	1:s:252:LEU:HD22	2.18	0.44
1:n:464:PHE:HA	1:n:467:TYR:CD2	2.52	0.44
1:q:288:GLN:NE2	1:q:698:PHE:O	2.47	0.44
1:q:467:TYR:HE1	1:r:349:GLN:HE21	1.63	0.44
1:r:227:THR:O	1:r:227:THR:HG23	2.17	0.44
1:t:330:THR:HG22	1:t:397:ARG:HG3	1.99	0.44
1:3:344:VAL:HB	1:4:428:ASN:HB2	2.00	0.44
1:3:435:LEU:HD13	1:3:468:ARG:HG3	1.99	0.44
1:5:252:LEU:HD22	1:8:714:THR:O	2.18	0.44
1:5:464:PHE:HA	1:5:467:TYR:CD2	2.52	0.44
1:5:484:LYS:HE2	1:5:557:PHE:HE2	1.82	0.44
1:5:572:ASP:OD1	1:5:573:MET:N	2.46	0.44
1:A:464:PHE:HA	1:A:467:TYR:CD2	2.52	0.44
1:B:227:THR:HG23	1:B:227:THR:O	2.17	0.44
1:B:428:ASN:HB2	1:J:344:VAL:HB	2.00	0.44
1:D:464:PHE:HA	1:D:467:TYR:CD2	2.52	0.44
1:E:658:THR:HG22	1:E:659:PHE:N	2.32	0.44
1:K:652:PRO:HG2	1:7:242:VAL:HB	1.99	0.44
1:N:294:ASN:OD1	1:N:686:LYS:HD3	2.16	0.44
1:P:227:THR:O	1:P:227:THR:HG23	2.17	0.44
1:R:467:TYR:HE1	1:S:349:GLN:HE21	1.63	0.44
1:T:464:PHE:HA	1:T:467:TYR:CD2	2.52	0.44
1:T:714:THR:O	1:U:252:LEU:HD22	2.18	0.44
1:U:714:THR:O	1:e:252:LEU:HD22	2.18	0.44
1:V:541:GLY:HA3	1:V:554:ASN:O	2.17	0.44
1:X:227:THR:O	1:X:227:THR:HG23	2.17	0.44
1:Y:242:VAL:HB	1:4:652:PRO:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:435:LEU:HD13	1:Y:468:ARG:HG3	1.99	0.44
1:b:464:PHE:HA	1:b:467:TYR:CD2	2.52	0.44
1:c:253:ARG:NH2	1:c:379:GLN:HE22	2.00	0.44
1:c:288:GLN:NE2	1:c:698:PHE:O	2.47	0.44
1:c:524:THR:HG1	1:c:560:GLU:H	1.59	0.44
1:d:288:GLN:NE2	1:d:698:PHE:O	2.47	0.44
1:d:576:GLN:HB2	1:l:506:HIS:CE1	2.53	0.44
1:e:288:GLN:NE2	1:e:698:PHE:O	2.47	0.44
1:h:288:GLN:NE2	1:h:698:PHE:O	2.47	0.44
1:i:484:LYS:HE2	1:i:557:PHE:HE2	1.82	0.44
1:j:242:VAL:HB	1:x:652:PRO:HG2	2.00	0.44
1:m:576:GLN:HB2	1:n:506:HIS:CE1	2.53	0.44
1:o:227:THR:O	1:o:227:THR:HG23	2.17	0.44
1:p:541:GLY:HA3	1:p:554:ASN:O	2.17	0.44
1:r:464:PHE:HA	1:r:467:TYR:CD2	2.52	0.44
1:u:652:PRO:HG2	1:5:242:VAL:HB	1.98	0.44
1:v:252:LEU:HD22	1:l:714:THR:O	2.18	0.44
1:v:714:THR:O	1:w:252:LEU:HD22	2.18	0.44
1:1:428:ASN:HB2	1:2:344:VAL:HB	2.00	0.44
1:3:276:ASN:OD1	1:3:615:ILE:N	2.46	0.44
1:5:227:THR:O	1:5:227:THR:HG23	2.17	0.44
1:6:452:ALA:HB2	1:7:491:LYS:HE2	1.99	0.44
1:A:252:LEU:HD22	1:B:714:THR:O	2.18	0.44
1:A:623:ASP:OD1	1:I:415:SER:OG	2.28	0.44
1:C:226:SER:HB2	1:C:235:THR:HG22	2.00	0.44
1:D:435:LEU:HD13	1:D:468:ARG:HG3	1.99	0.44
1:D:652:PRO:HG2	1:E:242:VAL:HB	1.99	0.44
1:F:252:LEU:HD22	1:R:714:THR:O	2.18	0.44
1:H:506:HIS:CE1	1:Y:576:GLN:HB2	2.52	0.44
1:J:576:GLN:HB2	1:L:506:HIS:CE1	2.53	0.44
1:N:435:LEU:HD13	1:N:468:ARG:HG3	1.99	0.44
1:O:506:HIS:CE1	1:n:576:GLN:HB2	2.53	0.44
1:P:308:ASN:HB2	1:P:675:GLN:HG2	1.99	0.44
1:P:714:THR:O	1:Q:252:LEU:HD22	2.18	0.44
1:S:464:PHE:HA	1:S:467:TYR:CD2	2.52	0.44
1:T:576:GLN:HB2	1:d:506:HIS:CE1	2.53	0.44
1:V:576:GLN:HB2	1:e:506:HIS:CE1	2.53	0.44
1:c:252:LEU:HD22	1:s:714:THR:O	2.18	0.44
1:c:414:HIS:HB2	1:c:635:PHE:HE1	1.83	0.44
1:c:506:HIS:CE1	1:p:576:GLN:HB2	2.53	0.44
1:f:344:VAL:HB	1:g:428:ASN:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:226:SER:HB2	1:g:235:THR:HG22	2.00	0.44
1:i:435:LEU:HD13	1:i:468:ARG:HG3	1.99	0.44
1:j:464:PHE:HA	1:j:467:TYR:CD2	2.52	0.44
1:j:576:GLN:HB2	1:k:506:HIS:CE1	2.52	0.44
1:k:464:PHE:HA	1:k:467:TYR:CD2	2.52	0.44
1:l:423:LEU:HD21	1:l:603:VAL:HG21	2.00	0.44
1:q:242:VAL:HB	1:y:652:PRO:HG2	1.99	0.44
1:q:714:THR:O	1:y:252:LEU:HD22	2.18	0.44
1:s:308:ASN:HB2	1:s:675:GLN:HG2	1.99	0.44
1:t:435:LEU:HD13	1:t:468:ARG:HG3	1.99	0.44
1:u:415:SER:OG	1:v:623:ASP:OD1	2.28	0.44
1:u:576:GLN:HB2	1:v:506:HIS:CE1	2.53	0.44
1:w:415:SER:OG	1:x:623:ASP:OD1	2.28	0.44
1:w:658:THR:HG22	1:w:659:PHE:N	2.32	0.44
1:3:464:PHE:HA	1:3:467:TYR:CD2	2.52	0.44
1:B:294:ASN:OD1	1:B:686:LYS:HD3	2.17	0.44
1:C:344:VAL:HB	1:M:428:ASN:HB2	2.00	0.44
1:C:428:ASN:HB2	1:b:344:VAL:HB	2.00	0.44
1:D:253:ARG:HH21	1:D:379:GLN:NE2	1.99	0.44
1:D:541:GLY:HA3	1:D:554:ASN:O	2.17	0.44
1:F:484:LYS:HE2	1:F:557:PHE:HE2	1.82	0.44
1:F:652:PRO:HG2	1:R:242:VAL:HB	1.99	0.44
1:G:435:LEU:HD13	1:G:468:ARG:HG3	1.99	0.44
1:H:572:ASP:OD1	1:H:573:MET:N	2.46	0.44
1:I:423:LEU:HD21	1:I:603:VAL:HG21	2.00	0.44
1:K:714:THR:O	1:L:252:LEU:HD22	2.18	0.44
1:L:227:THR:O	1:L:227:THR:HG23	2.17	0.44
1:N:242:VAL:HB	1:m:652:PRO:HG2	1.99	0.44
1:N:484:LYS:HE2	1:N:557:PHE:HE2	1.82	0.44
1:O:252:LEU:HD22	1:d:714:THR:O	2.18	0.44
1:O:308:ASN:HB2	1:O:675:GLN:HG2	1.98	0.44
1:P:294:ASN:OD1	1:P:686:LYS:HD3	2.17	0.44
1:S:226:SER:HB2	1:S:235:THR:HG22	2.00	0.44
1:S:253:ARG:NH2	1:S:379:GLN:HE22	2.00	0.44
1:U:308:ASN:HB2	1:U:675:GLN:HG2	1.99	0.44
1:U:414:HIS:HB2	1:U:635:PHE:HE1	1.83	0.44
1:U:435:LEU:HD13	1:U:468:ARG:HG3	1.99	0.44
1:V:435:LEU:HD13	1:V:468:ARG:HG3	1.99	0.44
1:X:294:ASN:OD1	1:X:686:LYS:HD3	2.17	0.44
1:a:227:THR:O	1:a:227:THR:HG23	2.17	0.44
1:a:464:PHE:HA	1:a:467:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:227:THR:O	1:c:227:THR:HG23	2.17	0.44
1:e:227:THR:HG23	1:e:227:THR:O	2.17	0.44
1:e:414:HIS:HB2	1:e:635:PHE:HE1	1.83	0.44
1:e:524:THR:HG1	1:e:560:GLU:H	1.59	0.44
1:j:252:LEU:HD22	1:l:714:THR:O	2.17	0.44
1:j:308:ASN:HB2	1:j:675:GLN:HG2	1.98	0.44
1:k:435:LEU:HD13	1:k:468:ARG:HG3	1.99	0.44
1:k:652:PRO:HG2	1:w:242:VAL:HB	1.99	0.44
1:l:308:ASN:HB2	1:l:675:GLN:HG2	1.99	0.44
1:z:227:THR:O	1:z:227:THR:HG23	2.17	0.44
1:z:506:HIS:CE1	1:2:576:GLN:HB2	2.53	0.44
1:1:294:ASN:OD1	1:1:686:LYS:HD3	2.17	0.44
1:3:658:THR:HG22	1:3:659:PHE:N	2.32	0.44
1:7:435:LEU:HD13	1:7:468:ARG:HG3	1.99	0.44
1:B:484:LYS:HE2	1:B:557:PHE:HE2	1.82	0.44
1:B:576:GLN:HB2	1:J:506:HIS:CE1	2.53	0.44
1:C:506:HIS:CE1	1:M:576:GLN:HB2	2.53	0.44
1:D:605:GLN:HA	1:N:623:ASP:HB2	1.99	0.44
1:D:658:THR:HG22	1:D:659:PHE:N	2.32	0.44
1:G:286:ASP:OD1	1:G:289:ARG:NH1	2.51	0.44
1:H:288:GLN:NE2	1:H:698:PHE:O	2.47	0.44
1:M:445:GLU:OE1	1:M:445:GLU:N	2.47	0.44
1:M:506:HIS:CE1	1:b:576:GLN:HB2	2.53	0.44
1:O:423:LEU:HD21	1:O:603:VAL:HG21	2.00	0.44
1:P:286:ASP:OD1	1:P:289:ARG:NH1	2.51	0.44
1:R:226:SER:HB2	1:R:235:THR:HG22	2.00	0.44
1:R:268:THR:OG1	1:R:366:TYR:O	2.24	0.44
1:R:484:LYS:HE2	1:R:557:PHE:HE2	1.82	0.44
1:S:428:ASN:HB2	1:U:344:VAL:HB	2.00	0.44
1:S:658:THR:HG22	1:S:659:PHE:N	2.32	0.44
1:T:242:VAL:HB	1:U:652:PRO:HG2	1.99	0.44
1:T:652:PRO:HG2	1:i:242:VAL:HB	1.99	0.44
1:U:330:THR:HG22	1:U:397:ARG:HG3	1.99	0.44
1:V:330:THR:HG22	1:V:397:ARG:HG3	1.99	0.44
1:V:414:HIS:HB2	1:V:635:PHE:HE1	1.83	0.44
1:W:423:LEU:HD21	1:W:603:VAL:HG21	2.00	0.44
1:Y:226:SER:HB2	1:Y:235:THR:HG22	2.00	0.44
1:Y:227:THR:HG23	1:Y:227:THR:O	2.17	0.44
1:b:435:LEU:HD13	1:b:468:ARG:HG3	1.99	0.44
1:c:346:ASP:HB2	1:c:617:ALA:HA	2.00	0.44
1:d:414:HIS:HB2	1:d:635:PHE:HE1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:346:ASP:HB2	1:e:617:ALA:HA	2.00	0.44
1:f:227:THR:O	1:f:227:THR:HG23	2.17	0.44
1:f:435:LEU:HD13	1:f:468:ARG:HG3	1.99	0.44
1:g:344:VAL:HB	1:h:428:ASN:HB2	2.00	0.44
1:j:294:ASN:OD1	1:j:686:LYS:HD3	2.16	0.44
1:l:252:LEU:HD22	1:n:714:THR:O	2.18	0.44
1:m:242:VAL:HB	1:s:652:PRO:HG2	1.99	0.44
1:m:253:ARG:NH2	1:m:379:GLN:HE22	2.00	0.44
1:n:414:HIS:HB2	1:n:635:PHE:HE1	1.83	0.44
1:o:294:ASN:OD1	1:o:686:LYS:HD3	2.17	0.44
1:p:414:HIS:HB2	1:p:635:PHE:HE1	1.83	0.44
1:p:435:LEU:HD13	1:p:468:ARG:HG3	1.99	0.44
1:q:226:SER:HB2	1:q:235:THR:HG22	2.00	0.44
1:q:286:ASP:OD1	1:q:289:ARG:NH1	2.51	0.44
1:r:226:SER:HB2	1:r:235:THR:HG22	2.00	0.44
1:r:428:ASN:HB2	1:s:344:VAL:HB	2.00	0.44
1:s:414:HIS:HB2	1:s:635:PHE:HE1	1.83	0.44
1:s:435:LEU:HD13	1:s:468:ARG:HG3	1.99	0.44
1:t:286:ASP:OD1	1:t:289:ARG:NH1	2.51	0.44
1:u:423:LEU:HD21	1:u:603:VAL:HG21	2.00	0.44
1:w:464:PHE:HA	1:w:467:TYR:CD2	2.52	0.44
1:y:484:LYS:HE2	1:y:557:PHE:HE2	1.82	0.44
1:1:576:GLN:HB2	1:2:506:HIS:CE1	2.53	0.44
1:3:286:ASP:OD1	1:3:289:ARG:NH1	2.51	0.44
1:3:330:THR:HG22	1:3:397:ARG:HG3	1.99	0.44
1:5:423:LEU:HD21	1:5:603:VAL:HG21	2.00	0.44
1:6:423:LEU:HD21	1:6:603:VAL:HG21	2.00	0.44
1:7:226:SER:HB2	1:7:235:THR:HG22	2.00	0.44
1:A:346:ASP:HB2	1:A:617:ALA:HA	2.00	0.43
1:B:346:ASP:HB2	1:B:617:ALA:HA	2.00	0.43
1:E:464:PHE:HA	1:E:467:TYR:CD2	2.52	0.43
1:E:506:HIS:CE1	1:F:576:GLN:HB2	2.53	0.43
1:H:423:LEU:HD21	1:H:603:VAL:HG21	2.00	0.43
1:I:227:THR:O	1:I:227:THR:HG23	2.17	0.43
1:K:346:ASP:HB2	1:K:617:ALA:HA	2.00	0.43
1:M:252:LEU:HD22	1:c:714:THR:O	2.18	0.43
1:N:226:SER:HB2	1:N:235:THR:HG22	2.00	0.43
1:O:576:GLN:HB2	1:m:506:HIS:CE1	2.53	0.43
1:P:414:HIS:HB2	1:P:635:PHE:HE1	1.83	0.43
1:P:423:LEU:HD21	1:P:603:VAL:HG21	2.00	0.43
1:Q:226:SER:HB2	1:Q:235:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:286:ASP:OD1	1:R:289:ARG:NH1	2.51	0.43
1:S:432:ASP:OD1	1:S:461:SER:N	2.40	0.43
1:T:344:VAL:HB	1:l:428:ASN:HB2	2.00	0.43
1:T:506:HIS:CE1	1:l:576:GLN:HB2	2.53	0.43
1:U:484:LYS:HE2	1:U:557:PHE:HE2	1.82	0.43
1:V:227:THR:O	1:V:227:THR:HG23	2.17	0.43
1:V:252:LEU:HD22	1:W:714:THR:O	2.18	0.43
1:W:227:THR:O	1:W:227:THR:HG23	2.17	0.43
1:W:286:ASP:OD1	1:W:289:ARG:NH1	2.51	0.43
1:X:286:ASP:OD1	1:X:289:ARG:NH1	2.51	0.43
1:Z:288:GLN:NE2	1:Z:698:PHE:O	2.47	0.43
1:a:428:ASN:HB2	1:8:344:VAL:HB	1.99	0.43
1:a:658:THR:HG22	1:a:659:PHE:N	2.32	0.43
1:c:276:ASN:OD1	1:c:615:ILE:N	2.46	0.43
1:d:286:ASP:OD1	1:d:289:ARG:NH1	2.51	0.43
1:e:714:THR:O	1:h:252:LEU:HD22	2.18	0.43
1:f:576:GLN:HB2	1:h:506:HIS:CE1	2.53	0.43
1:g:506:HIS:CE1	1:h:576:GLN:HB2	2.53	0.43
1:g:714:THR:O	1:l:252:LEU:HD22	2.18	0.43
1:j:286:ASP:OD1	1:j:289:ARG:NH1	2.51	0.43
1:j:414:HIS:HB2	1:j:635:PHE:HE1	1.83	0.43
1:j:452:ALA:HB2	1:k:491:LYS:HE2	1.98	0.43
1:k:541:GLY:HA3	1:k:554:ASN:O	2.17	0.43
1:k:658:THR:HG22	1:k:659:PHE:N	2.32	0.43
1:n:286:ASP:OD1	1:n:289:ARG:NH1	2.51	0.43
1:o:286:ASP:OD1	1:o:289:ARG:NH1	2.51	0.43
1:o:414:HIS:HB2	1:o:635:PHE:HE1	1.83	0.43
1:p:330:THR:HG22	1:p:397:ARG:HG3	1.99	0.43
1:r:658:THR:HG22	1:r:659:PHE:N	2.32	0.43
1:s:484:LYS:HE2	1:s:557:PHE:HE2	1.82	0.43
1:t:428:ASN:HB2	1:u:344:VAL:HB	2.00	0.43
1:u:428:ASN:HB2	1:v:344:VAL:HB	2.00	0.43
1:w:506:HIS:CE1	1:y:576:GLN:HB2	2.53	0.43
1:l:484:LYS:HE2	1:l:557:PHE:HE2	1.82	0.43
1:3:227:THR:O	1:3:227:THR:HG23	2.17	0.43
1:4:227:THR:O	1:4:227:THR:HG23	2.17	0.43
1:4:346:ASP:HB2	1:4:617:ALA:HA	2.00	0.43
1:6:286:ASP:OD1	1:6:289:ARG:NH1	2.51	0.43
1:B:252:LEU:HD22	1:C:714:THR:O	2.18	0.43
1:C:464:PHE:HA	1:C:467:TYR:CD2	2.52	0.43
1:D:226:SER:HB2	1:D:235:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:226:SER:HB2	1:E:235:THR:HG22	2.00	0.43
1:F:435:LEU:HD13	1:F:468:ARG:HG3	1.99	0.43
1:G:428:ASN:HB2	1:I:344:VAL:HB	2.00	0.43
1:K:227:THR:O	1:K:227:THR:HG23	2.17	0.43
1:M:714:THR:O	1:N:252:LEU:HD22	2.17	0.43
1:O:428:ASN:HB2	1:m:344:VAL:HB	2.00	0.43
1:R:435:LEU:HD13	1:R:468:ARG:HG3	1.99	0.43
1:S:576:GLN:HB2	1:U:506:HIS:CE1	2.53	0.43
1:U:226:SER:HB2	1:U:235:THR:HG22	2.00	0.43
1:V:658:THR:HG22	1:V:659:PHE:N	2.32	0.43
1:X:414:HIS:HB2	1:X:635:PHE:HE1	1.83	0.43
1:Z:344:VAL:HB	1:3:428:ASN:HB2	1.99	0.43
1:Z:346:ASP:HB2	1:Z:617:ALA:HA	2.01	0.43
1:a:286:ASP:OD1	1:a:289:ARG:NH1	2.51	0.43
1:a:330:THR:HG22	1:a:397:ARG:HG3	1.99	0.43
1:b:227:THR:O	1:b:227:THR:HG23	2.17	0.43
1:e:276:ASN:OD1	1:e:615:ILE:N	2.46	0.43
1:g:464:PHE:HA	1:g:467:TYR:CD2	2.52	0.43
1:h:445:GLU:OE1	1:h:445:GLU:N	2.47	0.43
1:i:226:SER:HB2	1:i:235:THR:HG22	2.00	0.43
1:i:346:ASP:HB2	1:i:617:ALA:HA	2.00	0.43
1:i:623:ASP:HB2	1:k:605:GLN:HA	1.99	0.43
1:j:423:LEU:HD21	1:j:603:VAL:HG21	2.00	0.43
1:k:226:SER:HB2	1:k:235:THR:HG22	2.00	0.43
1:k:286:ASP:OD1	1:k:289:ARG:NH1	2.51	0.43
1:m:415:SER:OG	1:n:623:ASP:OD1	2.28	0.43
1:p:252:LEU:HD22	1:6:714:THR:O	2.18	0.43
1:p:445:GLU:OE1	1:p:445:GLU:N	2.47	0.43
1:p:714:THR:O	1:q:252:LEU:HD22	2.18	0.43
1:q:423:LEU:HD21	1:q:603:VAL:HG21	2.00	0.43
1:q:435:LEU:HD13	1:q:468:ARG:HG3	1.99	0.43
1:q:484:LYS:HE2	1:q:557:PHE:HE2	1.82	0.43
1:s:226:SER:HB2	1:s:235:THR:HG22	2.00	0.43
1:s:330:THR:HG22	1:s:397:ARG:HG3	1.99	0.43
1:u:227:THR:O	1:u:227:THR:HG23	2.17	0.43
1:v:346:ASP:HB2	1:v:617:ALA:HA	2.00	0.43
1:w:226:SER:HB2	1:w:235:THR:HG22	2.00	0.43
1:y:423:LEU:HD21	1:y:603:VAL:HG21	2.00	0.43
1:z:252:LEU:HD22	1:4:714:THR:O	2.18	0.43
1:1:346:ASP:HB2	1:1:617:ALA:HA	2.00	0.43
1:5:268:THR:OG1	1:5:366:TYR:O	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:288:GLN:NE2	1:5:698:PHE:O	2.47	0.43
1:6:226:SER:HB2	1:6:235:THR:HG22	2.00	0.43
1:7:227:THR:HG23	1:7:227:THR:O	2.17	0.43
1:7:286:ASP:OD1	1:7:289:ARG:NH1	2.51	0.43
1:8:346:ASP:HB2	1:8:617:ALA:HA	2.01	0.43
1:C:423:LEU:HD21	1:C:603:VAL:HG21	2.00	0.43
1:C:576:GLN:HB2	1:b:506:HIS:CE1	2.53	0.43
1:D:286:ASP:OD1	1:D:289:ARG:NH1	2.51	0.43
1:G:714:THR:O	1:W:252:LEU:HD22	2.18	0.43
1:H:714:THR:O	1:I:252:LEU:HD22	2.18	0.43
1:J:286:ASP:OD1	1:J:289:ARG:NH1	2.51	0.43
1:M:226:SER:HB2	1:M:235:THR:HG22	2.00	0.43
1:N:346:ASP:HB2	1:N:617:ALA:HA	2.01	0.43
1:O:227:THR:O	1:O:227:THR:HG23	2.17	0.43
1:O:458:LYS:NZ	1:m:350:GLU:OE2	2.44	0.43
1:R:252:LEU:HD22	1:V:714:THR:O	2.18	0.43
1:R:506:HIS:CE1	1:U:576:GLN:HB2	2.53	0.43
1:T:253:ARG:NH2	1:T:379:GLN:HE22	2.00	0.43
1:W:226:SER:HB2	1:W:235:THR:HG22	2.00	0.43
1:Y:286:ASP:OD1	1:Y:289:ARG:NH1	2.51	0.43
1:Z:252:LEU:HD22	1:a:714:THR:O	2.18	0.43
1:a:415:SER:OG	1:8:623:ASP:OD1	2.28	0.43
1:a:427:MET:SD	1:a:464:PHE:CD1	3.12	0.43
1:b:286:ASP:OD1	1:b:289:ARG:NH1	2.51	0.43
1:f:286:ASP:OD1	1:f:289:ARG:NH1	2.51	0.43
1:f:506:HIS:CE1	1:g:576:GLN:HB2	2.53	0.43
1:h:226:SER:HB2	1:h:235:THR:HG22	2.00	0.43
1:h:714:THR:O	1:i:252:LEU:HD22	2.17	0.43
1:k:252:LEU:HD22	1:w:714:THR:O	2.18	0.43
1:k:414:HIS:HB2	1:k:635:PHE:HE1	1.83	0.43
1:l:346:ASP:HB2	1:l:617:ALA:HA	2.00	0.43
1:p:227:THR:O	1:p:227:THR:HG23	2.17	0.43
1:p:658:THR:HG22	1:p:659:PHE:N	2.32	0.43
1:q:344:VAL:HB	1:s:428:ASN:HB2	2.00	0.43
1:q:506:HIS:CE1	1:s:576:GLN:HB2	2.53	0.43
1:r:414:HIS:HB2	1:r:635:PHE:HE1	1.83	0.43
1:r:576:GLN:HB2	1:s:506:HIS:CE1	2.53	0.43
1:s:464:PHE:HA	1:s:467:TYR:CD2	2.52	0.43
1:u:252:LEU:HD22	1:5:714:THR:O	2.18	0.43
1:u:346:ASP:HB2	1:u:617:ALA:HA	2.00	0.43
1:w:286:ASP:OD1	1:w:289:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:226:SER:HB2	1:x:235:THR:HG22	2.00	0.43
1:y:435:LEU:HD13	1:y:468:ARG:HG3	1.99	0.43
1:2:226:SER:HB2	1:2:235:THR:HG22	2.00	0.43
1:2:286:ASP:OD1	1:2:289:ARG:NH1	2.51	0.43
1:3:226:SER:HB2	1:3:235:THR:HG22	2.00	0.43
1:3:714:THR:O	1:8:252:LEU:HD22	2.18	0.43
1:6:227:THR:O	1:6:227:THR:HG23	2.17	0.43
1:A:427:MET:SD	1:A:464:PHE:CD1	3.12	0.43
1:A:658:THR:HG22	1:A:659:PHE:N	2.32	0.43
1:C:227:THR:O	1:C:227:THR:HG23	2.17	0.43
1:C:414:HIS:HB2	1:C:635:PHE:HE1	1.83	0.43
1:D:414:HIS:HB2	1:D:635:PHE:HE1	1.83	0.43
1:E:286:ASP:OD1	1:E:289:ARG:NH1	2.51	0.43
1:F:423:LEU:HD21	1:F:603:VAL:HG21	2.00	0.43
1:G:576:GLN:HB2	1:I:506:HIS:CE1	2.53	0.43
1:I:346:ASP:HB2	1:I:617:ALA:HA	2.00	0.43
1:J:226:SER:HB2	1:J:235:THR:HG22	2.00	0.43
1:J:346:ASP:HB2	1:J:617:ALA:HA	2.01	0.43
1:K:423:LEU:HD21	1:K:603:VAL:HG21	2.00	0.43
1:Q:714:THR:O	1:S:252:LEU:HD22	2.18	0.43
1:R:344:VAL:HB	1:U:428:ASN:HB2	2.00	0.43
1:R:423:LEU:HD21	1:R:603:VAL:HG21	2.00	0.43
1:U:464:PHE:HA	1:U:467:TYR:CD2	2.52	0.43
1:V:445:GLU:OE1	1:V:445:GLU:N	2.47	0.43
1:X:252:LEU:HD22	1:f:714:THR:O	2.18	0.43
1:a:226:SER:HB2	1:a:235:THR:HG22	2.00	0.43
1:b:346:ASP:HB2	1:b:617:ALA:HA	2.00	0.43
1:b:714:THR:O	1:o:252:LEU:HD22	2.18	0.43
1:c:423:LEU:HD21	1:c:603:VAL:HG21	2.00	0.43
1:c:652:PRO:HG2	1:s:242:VAL:HB	1.99	0.43
1:d:226:SER:HB2	1:d:235:THR:HG22	2.00	0.43
1:d:428:ASN:HB2	1:l:344:VAL:HB	1.99	0.43
1:e:423:LEU:HD21	1:e:603:VAL:HG21	2.00	0.43
1:f:346:ASP:HB2	1:f:617:ALA:HA	2.00	0.43
1:f:414:HIS:HB2	1:f:635:PHE:HE1	1.83	0.43
1:g:423:LEU:HD21	1:g:603:VAL:HG21	2.00	0.43
1:h:227:THR:HG23	1:h:227:THR:O	2.17	0.43
1:k:253:ARG:HH21	1:k:379:GLN:NE2	1.99	0.43
1:k:330:THR:HG22	1:k:397:ARG:HG3	1.99	0.43
1:m:226:SER:HB2	1:m:235:THR:HG22	2.00	0.43
1:m:428:ASN:HB2	1:n:344:VAL:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:330:THR:HG22	1:n:397:ARG:HG3	1.99	0.43
1:q:445:GLU:OE1	1:q:445:GLU:N	2.47	0.43
1:r:252:LEU:HD22	1:x:714:THR:O	2.18	0.43
1:r:253:ARG:NH2	1:r:379:GLN:HE22	2.00	0.43
1:r:432:ASP:OD1	1:r:461:SER:N	2.40	0.43
1:t:714:THR:O	1:6:252:LEU:HD22	2.18	0.43
1:v:427:MET:SD	1:v:464:PHE:CD1	3.12	0.43
1:v:658:THR:HG22	1:v:659:PHE:N	2.32	0.43
1:w:227:THR:O	1:w:227:THR:HG23	2.17	0.43
1:w:423:LEU:HD21	1:w:603:VAL:HG21	2.00	0.43
1:2:346:ASP:HB2	1:2:617:ALA:HA	2.01	0.43
1:6:346:ASP:HB2	1:6:617:ALA:HA	2.01	0.43
1:8:288:GLN:NE2	1:8:698:PHE:O	2.47	0.43
1:B:268:THR:OG1	1:B:366:TYR:O	2.24	0.43
1:B:506:HIS:CE1	1:L:576:GLN:HB2	2.53	0.43
1:D:330:THR:HG22	1:D:397:ARG:HG3	1.99	0.43
1:E:423:LEU:HD21	1:E:603:VAL:HG21	2.00	0.43
1:F:288:GLN:NE2	1:F:698:PHE:O	2.47	0.43
1:F:344:VAL:HB	1:Q:428:ASN:HB2	2.00	0.43
1:G:227:THR:O	1:G:227:THR:HG23	2.17	0.43
1:H:286:ASP:OD1	1:H:289:ARG:NH1	2.51	0.43
1:I:427:MET:SD	1:I:464:PHE:CD1	3.12	0.43
1:J:714:THR:O	1:a:252:LEU:HD22	2.18	0.43
1:K:286:ASP:OD1	1:K:289:ARG:NH1	2.51	0.43
1:L:286:ASP:OD1	1:L:289:ARG:NH1	2.51	0.43
1:M:227:THR:HG23	1:M:227:THR:O	2.17	0.43
1:O:344:VAL:HB	1:n:428:ASN:HB2	1.99	0.43
1:O:346:ASP:HB2	1:O:617:ALA:HA	2.01	0.43
1:O:414:HIS:HB2	1:O:635:PHE:HE1	1.83	0.43
1:R:414:HIS:HB2	1:R:635:PHE:HE1	1.83	0.43
1:S:414:HIS:HB2	1:S:635:PHE:HE1	1.83	0.43
1:T:226:SER:HB2	1:T:235:THR:HG22	2.00	0.43
1:T:428:ASN:HB2	1:d:344:VAL:HB	2.00	0.43
1:U:286:ASP:OD1	1:U:289:ARG:NH1	2.51	0.43
1:W:346:ASP:HB2	1:W:617:ALA:HA	2.01	0.43
1:Z:226:SER:HB2	1:Z:235:THR:HG22	2.00	0.43
1:b:414:HIS:HB2	1:b:635:PHE:HE1	1.83	0.43
1:c:576:GLN:HB2	1:o:506:HIS:CE1	2.53	0.43
1:d:330:THR:HG22	1:d:397:ARG:HG3	1.99	0.43
1:d:423:LEU:HD21	1:d:603:VAL:HG21	2.00	0.43
1:e:286:ASP:OD1	1:e:289:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:227:THR:O	1:g:227:THR:HG23	2.17	0.43
1:g:414:HIS:HB2	1:g:635:PHE:HE1	1.83	0.43
1:l:227:THR:O	1:l:227:THR:HG23	2.17	0.43
1:l:268:THR:OG1	1:l:366:TYR:O	2.24	0.43
1:n:226:SER:HB2	1:n:235:THR:HG22	2.00	0.43
1:t:576:GLN:HB2	1:u:506:HIS:CE1	2.53	0.43
1:u:330:THR:HG22	1:u:397:ARG:HG3	1.99	0.43
1:u:427:MET:SD	1:u:464:PHE:CD1	3.11	0.43
1:x:428:ASN:HB2	1:y:344:VAL:HB	2.00	0.43
1:z:286:ASP:OD1	1:z:289:ARG:NH1	2.51	0.43
1:2:714:THR:O	1:3:252:LEU:HD22	2.18	0.43
1:3:427:MET:SD	1:3:464:PHE:CD1	3.12	0.43
1:4:414:HIS:HB2	1:4:635:PHE:HE1	1.83	0.43
1:4:423:LEU:HD21	1:4:603:VAL:HG21	2.00	0.43
1:6:276:ASN:OD1	1:6:615:ILE:N	2.46	0.43
1:8:226:SER:HB2	1:8:235:THR:HG22	2.00	0.43
1:A:286:ASP:OD1	1:A:289:ARG:NH1	2.51	0.43
1:A:344:VAL:HB	1:I:428:ASN:HB2	2.00	0.43
1:B:533:SER:OG	1:B:570:ASP:OD2	2.32	0.43
1:D:252:LEU:HD22	1:E:714:THR:O	2.18	0.43
1:E:227:THR:O	1:E:227:THR:HG23	2.17	0.43
1:E:344:VAL:HB	1:F:428:ASN:HB2	1.99	0.43
1:E:349:GLN:HA	1:F:433:GLN:HA	2.01	0.43
1:F:227:THR:O	1:F:227:THR:HG23	2.17	0.43
1:F:506:HIS:CE1	1:Q:576:GLN:HB2	2.53	0.43
1:K:414:HIS:HB2	1:K:635:PHE:HE1	1.83	0.43
1:L:423:LEU:HD21	1:L:603:VAL:HG21	2.00	0.43
1:N:227:THR:O	1:N:227:THR:HG23	2.17	0.43
1:Q:253:ARG:NH2	1:Q:379:GLN:HE22	2.00	0.43
1:U:242:VAL:HB	1:e:652:PRO:HG2	1.99	0.43
1:W:330:THR:HG22	1:W:397:ARG:HG3	1.99	0.43
1:X:435:LEU:HD13	1:X:468:ARG:HG3	1.99	0.43
1:X:506:HIS:CE1	1:e:576:GLN:HB2	2.53	0.43
1:c:286:ASP:OD1	1:c:289:ARG:NH1	2.51	0.43
1:d:346:ASP:HB2	1:d:617:ALA:HA	2.00	0.43
1:g:252:LEU:HD22	1:k:714:THR:O	2.18	0.43
1:l:414:HIS:HB2	1:l:635:PHE:HE1	1.83	0.43
1:o:435:LEU:HD13	1:o:468:ARG:HG3	1.99	0.43
1:q:414:HIS:HB2	1:q:635:PHE:HE1	1.83	0.43
1:s:227:THR:O	1:s:227:THR:HG23	2.17	0.43
1:s:286:ASP:OD1	1:s:289:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:344:VAL:HB	1:y:428:ASN:HB2	1.99	0.43
1:w:349:GLN:HA	1:y:433:GLN:HA	2.01	0.43
1:w:428:ASN:HB2	1:x:344:VAL:HB	2.00	0.43
1:y:227:THR:O	1:y:227:THR:HG23	2.17	0.43
1:y:288:GLN:NE2	1:y:698:PHE:O	2.47	0.43
1:z:346:ASP:HB2	1:z:617:ALA:HA	2.00	0.43
1:z:423:LEU:HD21	1:z:603:VAL:HG21	2.00	0.43
1:z:427:MET:SD	1:z:464:PHE:CD1	3.12	0.43
1:z:576:GLN:HB2	1:1:506:HIS:CE1	2.53	0.43
1:4:286:ASP:OD1	1:4:289:ARG:NH1	2.51	0.43
1:5:286:ASP:OD1	1:5:289:ARG:NH1	2.51	0.43
1:6:330:THR:HG22	1:6:397:ARG:HG3	1.99	0.43
1:8:423:LEU:HD21	1:8:603:VAL:HG21	2.00	0.43
1:B:288:GLN:NE2	1:B:698:PHE:O	2.47	0.43
1:C:252:LEU:HD22	1:D:714:THR:O	2.18	0.43
1:D:428:ASN:HB2	1:N:344:VAL:HB	1.99	0.43
1:I:330:THR:HG22	1:I:397:ARG:HG3	1.99	0.43
1:L:226:SER:HB2	1:L:235:THR:HG22	2.00	0.43
1:L:330:THR:HG22	1:L:397:ARG:HG3	1.99	0.43
1:L:427:MET:SD	1:L:464:PHE:CD1	3.12	0.43
1:M:344:VAL:HB	1:b:428:ASN:HB2	1.99	0.43
1:M:423:LEU:HD21	1:M:603:VAL:HG21	2.00	0.43
1:Q:346:ASP:HB2	1:Q:617:ALA:HA	2.00	0.43
1:R:415:SER:OG	1:S:623:ASP:OD1	2.28	0.43
1:R:445:GLU:OE1	1:R:445:GLU:N	2.47	0.43
1:S:346:ASP:HB2	1:S:617:ALA:HA	2.00	0.43
1:T:435:LEU:HD13	1:T:468:ARG:HG3	1.99	0.43
1:T:452:ALA:HB2	1:d:491:LYS:HE2	2.01	0.43
1:V:428:ASN:HB2	1:e:344:VAL:HB	2.00	0.43
1:V:506:HIS:CE1	1:X:576:GLN:HB2	2.53	0.43
1:X:308:ASN:HB2	1:X:675:GLN:HG2	1.99	0.43
1:X:349:GLN:HA	1:e:433:GLN:HA	2.01	0.43
1:Z:423:LEU:HD21	1:Z:603:VAL:HG21	2.00	0.43
1:c:344:VAL:HB	1:p:428:ASN:HB2	2.00	0.43
1:c:433:GLN:HA	1:o:349:GLN:HA	2.01	0.43
1:f:428:ASN:HB2	1:h:344:VAL:HB	1.99	0.43
1:h:423:LEU:HD21	1:h:603:VAL:HG21	2.00	0.43
1:i:227:THR:O	1:i:227:THR:HG23	2.17	0.43
1:j:226:SER:HB2	1:j:235:THR:HG22	2.00	0.43
1:m:435:LEU:HD13	1:m:468:ARG:HG3	1.99	0.43
1:m:452:ALA:HB2	1:n:491:LYS:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:346:ASP:HB2	1:n:617:ALA:HA	2.00	0.43
1:n:423:LEU:HD21	1:n:603:VAL:HG21	2.00	0.43
1:o:308:ASN:HB2	1:o:675:GLN:HG2	1.99	0.43
1:o:576:GLN:HB2	1:p:506:HIS:CE1	2.53	0.43
1:t:227:THR:O	1:t:227:THR:HG23	2.17	0.43
1:t:506:HIS:CE1	1:v:576:GLN:HB2	2.53	0.43
1:w:576:GLN:HB2	1:x:506:HIS:CE1	2.53	0.43
1:z:226:SER:HB2	1:z:235:THR:HG22	2.00	0.43
1:2:423:LEU:HD21	1:2:603:VAL:HG21	2.00	0.43
1:3:506:HIS:CE1	1:4:576:GLN:HB2	2.53	0.43
1:A:414:HIS:HB2	1:A:635:PHE:HE1	1.83	0.43
1:B:414:HIS:HB2	1:B:635:PHE:HE1	1.83	0.43
1:D:427:MET:SD	1:D:464:PHE:CD1	3.11	0.43
1:E:414:HIS:HB2	1:E:635:PHE:HE1	1.83	0.43
1:E:428:ASN:HB2	1:Q:344:VAL:HB	2.00	0.43
1:E:576:GLN:HB2	1:Q:506:HIS:CE1	2.53	0.43
1:F:226:SER:HB2	1:F:235:THR:HG22	2.00	0.43
1:H:344:VAL:HB	1:Y:428:ASN:HB2	2.00	0.43
1:H:415:SER:OG	1:W:623:ASP:OD1	2.28	0.43
1:J:423:LEU:HD21	1:J:603:VAL:HG21	2.00	0.43
1:K:576:GLN:HB2	1:a:506:HIS:CE1	2.53	0.43
1:L:346:ASP:HB2	1:L:617:ALA:HA	2.01	0.43
1:Q:286:ASP:OD1	1:Q:289:ARG:NH1	2.51	0.43
1:R:452:ALA:HB2	1:S:491:LYS:HE2	2.01	0.43
1:T:350:GLU:OE2	1:l:458:LYS:NZ	2.45	0.43
1:X:226:SER:HB2	1:X:235:THR:HG22	2.00	0.43
1:X:330:THR:HG22	1:X:397:ARG:HG3	1.99	0.43
1:X:346:ASP:HB2	1:X:617:ALA:HA	2.00	0.43
1:f:433:GLN:HA	1:h:349:GLN:HA	2.01	0.43
1:o:330:THR:HG22	1:o:397:ARG:HG3	1.99	0.43
1:q:452:ALA:HB2	1:r:491:LYS:HE2	2.01	0.43
1:v:286:ASP:OD1	1:v:289:ARG:NH1	2.51	0.43
1:w:414:HIS:HB2	1:w:635:PHE:HE1	1.83	0.43
1:x:346:ASP:HB2	1:x:617:ALA:HA	2.01	0.43
1:x:576:GLN:HB2	1:y:506:HIS:CE1	2.53	0.43
1:1:423:LEU:HD21	1:1:603:VAL:HG21	2.00	0.43
1:7:414:HIS:HB2	1:7:635:PHE:HE1	1.83	0.43
1:A:576:GLN:HB2	1:G:506:HIS:CE1	2.53	0.43
1:B:286:ASP:OD1	1:B:289:ARG:NH1	2.51	0.43
1:C:330:THR:HG22	1:C:397:ARG:HG3	1.99	0.43
1:D:344:VAL:HB	1:P:428:ASN:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:445:GLU:OE1	1:E:445:GLU:N	2.47	0.43
1:F:346:ASP:HB2	1:F:617:ALA:HA	2.00	0.43
1:F:714:THR:O	1:G:252:LEU:HD22	2.18	0.43
1:H:414:HIS:HB2	1:H:635:PHE:HE1	1.83	0.43
1:J:330:THR:HG22	1:J:397:ARG:HG3	1.99	0.43
1:M:349:GLN:HA	1:b:433:GLN:HA	2.01	0.43
1:O:226:SER:HB2	1:O:235:THR:HG22	2.00	0.43
1:O:714:THR:O	1:P:252:LEU:HD22	2.18	0.43
1:P:226:SER:HB2	1:P:235:THR:HG22	2.00	0.43
1:T:227:THR:O	1:T:227:THR:HG23	2.17	0.43
1:U:227:THR:O	1:U:227:THR:HG23	2.17	0.43
1:V:226:SER:HB2	1:V:235:THR:HG22	2.00	0.43
1:W:276:ASN:OD1	1:W:615:ILE:N	2.46	0.43
1:c:349:GLN:HA	1:p:433:GLN:HA	2.01	0.43
1:i:344:VAL:HB	1:k:428:ASN:HB2	2.00	0.43
1:l:226:SER:HB2	1:l:235:THR:HG22	2.00	0.43
1:o:226:SER:HB2	1:o:235:THR:HG22	2.00	0.43
1:o:346:ASP:HB2	1:o:617:ALA:HA	2.00	0.43
1:r:346:ASP:HB2	1:r:617:ALA:HA	2.01	0.43
1:t:252:LEU:HD22	1:y:714:THR:O	2.18	0.43
1:x:253:ARG:NH2	1:x:379:GLN:HE22	2.00	0.43
1:x:286:ASP:OD1	1:x:289:ARG:NH1	2.51	0.43
1:y:346:ASP:HB2	1:y:617:ALA:HA	2.00	0.43
1:5:414:HIS:HB2	1:5:635:PHE:HE1	1.83	0.43
1:5:576:GLN:HB2	1:6:506:HIS:CE1	2.53	0.43
1:B:423:LEU:HD21	1:B:603:VAL:HG21	2.00	0.43
1:C:276:ASN:OD1	1:C:615:ILE:N	2.46	0.43
1:D:423:LEU:HD21	1:D:603:VAL:HG21	2.00	0.43
1:H:576:GLN:HB2	1:W:506:HIS:CE1	2.53	0.43
1:J:414:HIS:HB2	1:J:635:PHE:HE1	1.83	0.43
1:J:433:GLN:HA	1:L:349:GLN:HA	2.01	0.43
1:J:484:LYS:HE2	1:J:557:PHE:HE2	1.82	0.43
1:Q:423:LEU:HD21	1:Q:603:VAL:HG21	2.00	0.43
1:R:576:GLN:HB2	1:S:506:HIS:CE1	2.53	0.43
1:T:414:HIS:HB2	1:T:635:PHE:HE1	1.83	0.43
1:V:423:LEU:HD21	1:V:603:VAL:HG21	2.00	0.43
1:V:433:GLN:HA	1:e:349:GLN:HA	2.01	0.43
1:X:623:ASP:OD1	1:e:415:SER:OG	2.28	0.43
1:Y:414:HIS:HB2	1:Y:635:PHE:HE1	1.83	0.43
1:Z:474:GLY:HA3	1:Z:604:TRP:HB3	2.01	0.43
1:Z:506:HIS:CE1	1:3:576:GLN:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:576:GLN:HB2	1:8:506:HIS:CE1	2.53	0.43
1:b:226:SER:HB2	1:b:235:THR:HG22	2.00	0.43
1:e:226:SER:HB2	1:e:235:THR:HG22	2.00	0.43
1:g:276:ASN:OD1	1:g:615:ILE:N	2.46	0.43
1:g:330:THR:HG22	1:g:397:ARG:HG3	1.99	0.43
1:i:423:LEU:HD21	1:i:603:VAL:HG21	2.00	0.43
1:k:423:LEU:HD21	1:k:603:VAL:HG21	2.00	0.43
1:m:227:THR:O	1:m:227:THR:HG23	2.17	0.43
1:p:226:SER:HB2	1:p:235:THR:HG22	2.00	0.43
1:p:346:ASP:HB2	1:p:617:ALA:HA	2.01	0.43
1:p:423:LEU:HD21	1:p:603:VAL:HG21	2.00	0.43
1:q:576:GLN:HB2	1:r:506:HIS:CE1	2.53	0.43
1:r:474:GLY:HA3	1:r:604:TRP:HB3	2.01	0.43
1:t:349:GLN:HA	1:v:433:GLN:HA	2.01	0.43
1:v:226:SER:HB2	1:v:235:THR:HG22	2.00	0.43
1:v:227:THR:O	1:v:227:THR:HG23	2.17	0.43
1:v:414:HIS:HB2	1:v:635:PHE:HE1	1.83	0.43
1:x:423:LEU:HD21	1:x:603:VAL:HG21	2.00	0.43
1:y:226:SER:HB2	1:y:235:THR:HG22	2.00	0.43
1:1:286:ASP:OD1	1:1:289:ARG:NH1	2.51	0.43
1:1:288:GLN:NE2	1:1:698:PHE:O	2.47	0.43
1:1:345:MET:HE3	1:1:616:TRP:HZ2	1.84	0.43
1:1:414:HIS:HB2	1:1:635:PHE:HE1	1.83	0.43
1:2:330:THR:HG22	1:2:397:ARG:HG3	1.99	0.43
1:7:345:MET:HE3	1:7:616:TRP:HZ2	1.84	0.43
1:8:474:GLY:HA3	1:8:604:TRP:HB3	2.01	0.43
1:B:345:MET:HE3	1:B:616:TRP:HZ2	1.84	0.42
1:B:605:GLN:HA	1:J:623:ASP:HB2	2.01	0.42
1:C:286:ASP:OD1	1:C:289:ARG:NH1	2.51	0.42
1:C:474:GLY:HA3	1:C:604:TRP:HB3	2.01	0.42
1:F:286:ASP:OD1	1:F:289:ARG:NH1	2.51	0.42
1:G:423:LEU:HD21	1:G:603:VAL:HG21	2.00	0.42
1:I:226:SER:HB2	1:I:235:THR:HG22	2.00	0.42
1:K:452:ALA:HB2	1:a:491:LYS:HE2	2.01	0.42
1:L:414:HIS:HB2	1:L:635:PHE:HE1	1.83	0.42
1:M:286:ASP:OD1	1:M:289:ARG:NH1	2.51	0.42
1:M:491:LYS:HB2	1:b:448:ASN:HA	2.01	0.42
1:N:286:ASP:OD1	1:N:289:ARG:NH1	2.51	0.42
1:N:423:LEU:HD21	1:N:603:VAL:HG21	2.00	0.42
1:R:658:THR:HG22	1:R:659:PHE:N	2.32	0.42
1:S:423:LEU:HD21	1:S:603:VAL:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:452:ALA:HB2	1:U:491:LYS:HE2	2.01	0.42
1:S:474:GLY:HA3	1:S:604:TRP:HB3	2.01	0.42
1:V:349:GLN:HA	1:X:433:GLN:HA	2.01	0.42
1:V:452:ALA:HB2	1:e:491:LYS:HE2	2.01	0.42
1:Y:345:MET:HE3	1:Y:616:TRP:HZ2	1.84	0.42
1:b:432:ASP:OD1	1:b:461:SER:N	2.40	0.42
1:c:226:SER:HB2	1:c:235:THR:HG22	2.00	0.42
1:c:491:LYS:HE2	1:p:452:ALA:HB2	2.01	0.42
1:d:345:MET:HE3	1:d:616:TRP:HZ2	1.84	0.42
1:g:286:ASP:OD1	1:g:289:ARG:NH1	2.51	0.42
1:g:474:GLY:HA3	1:g:604:TRP:HB3	2.01	0.42
1:i:286:ASP:OD1	1:i:289:ARG:NH1	2.51	0.42
1:i:474:GLY:HA3	1:i:604:TRP:HB3	2.01	0.42
1:j:428:ASN:HB2	1:k:344:VAL:HB	2.00	0.42
1:k:427:MET:SD	1:k:464:PHE:CD1	3.12	0.42
1:n:345:MET:HE3	1:n:616:TRP:HZ2	1.84	0.42
1:o:268:THR:OG1	1:o:366:TYR:O	2.24	0.42
1:o:433:GLN:HA	1:p:349:GLN:HA	2.01	0.42
1:p:345:MET:HE3	1:p:616:TRP:HZ2	1.84	0.42
1:q:415:SER:OG	1:r:623:ASP:OD1	2.28	0.42
1:q:605:GLN:HA	1:r:623:ASP:HB2	2.01	0.42
1:q:658:THR:HG22	1:q:659:PHE:N	2.32	0.42
1:r:452:ALA:HB2	1:s:491:LYS:HE2	2.01	0.42
1:t:423:LEU:HD21	1:t:603:VAL:HG21	2.00	0.42
1:u:226:SER:HB2	1:u:235:THR:HG22	2.00	0.42
1:u:414:HIS:HB2	1:u:635:PHE:HE1	1.83	0.42
1:w:445:GLU:OE1	1:w:445:GLU:N	2.47	0.42
1:y:286:ASP:OD1	1:y:289:ARG:NH1	2.51	0.42
1:z:330:THR:HG22	1:z:397:ARG:HG3	1.99	0.42
1:1:605:GLN:HA	1:2:623:ASP:HB2	2.01	0.42
1:2:414:HIS:HB2	1:2:635:PHE:HE1	1.83	0.42
1:3:491:LYS:HE2	1:4:452:ALA:HB2	2.01	0.42
1:5:344:VAL:HB	1:7:428:ASN:HB2	2.00	0.42
1:7:484:LYS:HE2	1:7:557:PHE:HE2	1.82	0.42
1:A:226:SER:HB2	1:A:235:THR:HG22	2.00	0.42
1:A:345:MET:HE3	1:A:616:TRP:HZ2	1.84	0.42
1:A:423:LEU:HD21	1:A:603:VAL:HG21	2.00	0.42
1:A:433:GLN:HA	1:G:349:GLN:HA	2.01	0.42
1:D:349:GLN:HA	1:P:433:GLN:HA	2.01	0.42
1:E:345:MET:HE3	1:E:616:TRP:HZ2	1.84	0.42
1:G:433:GLN:HA	1:I:349:GLN:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:431:LEU:O	1:H:461:SER:HB3	2.20	0.42
1:H:433:GLN:HA	1:W:349:GLN:HA	2.01	0.42
1:I:414:HIS:HB2	1:I:635:PHE:HE1	1.83	0.42
1:J:345:MET:HE3	1:J:616:TRP:HZ2	1.84	0.42
1:J:452:ALA:HB2	1:L:491:LYS:HE2	2.01	0.42
1:K:491:LYS:HE2	1:8:452:ALA:HB2	2.01	0.42
1:N:474:GLY:HA3	1:N:604:TRP:HB3	2.01	0.42
1:R:349:GLN:HA	1:U:433:GLN:HA	2.01	0.42
1:R:427:MET:SD	1:R:464:PHE:CD1	3.12	0.42
1:R:474:GLY:HA3	1:R:604:TRP:HB3	2.01	0.42
1:R:605:GLN:HA	1:S:623:ASP:HB2	2.01	0.42
1:T:474:GLY:HA3	1:T:604:TRP:HB3	2.01	0.42
1:V:253:ARG:NH2	1:V:379:GLN:HE22	2.00	0.42
1:V:286:ASP:OD1	1:V:289:ARG:NH1	2.51	0.42
1:V:345:MET:HE3	1:V:616:TRP:HZ2	1.85	0.42
1:V:346:ASP:HB2	1:V:617:ALA:HA	2.01	0.42
1:W:253:ARG:NH2	1:W:379:GLN:HE22	2.00	0.42
1:X:445:GLU:OE1	1:X:445:GLU:N	2.47	0.42
1:Z:286:ASP:OD1	1:Z:289:ARG:NH1	2.51	0.42
1:c:345:MET:HE3	1:c:616:TRP:HZ2	1.85	0.42
1:e:345:MET:HE3	1:e:616:TRP:HZ2	1.85	0.42
1:f:226:SER:HB2	1:f:235:THR:HG22	2.00	0.42
1:f:448:ASN:HA	1:h:491:LYS:HB2	2.01	0.42
1:h:286:ASP:OD1	1:h:289:ARG:NH1	2.51	0.42
1:k:276:ASN:OD1	1:k:615:ILE:N	2.46	0.42
1:l:431:LEU:O	1:l:461:SER:HB3	2.20	0.42
1:l:445:GLU:OE1	1:l:445:GLU:N	2.47	0.42
1:m:345:MET:HE3	1:m:616:TRP:HZ2	1.84	0.42
1:m:414:HIS:HB2	1:m:635:PHE:HE1	1.83	0.42
1:m:423:LEU:HD21	1:m:603:VAL:HG21	2.00	0.42
1:p:253:ARG:NH2	1:p:379:GLN:HE22	2.00	0.42
1:p:286:ASP:OD1	1:p:289:ARG:NH1	2.51	0.42
1:q:349:GLN:HA	1:s:433:GLN:HA	2.01	0.42
1:q:427:MET:SD	1:q:464:PHE:CD1	3.12	0.42
1:r:423:LEU:HD21	1:r:603:VAL:HG21	2.00	0.42
1:r:431:LEU:O	1:r:461:SER:HB3	2.20	0.42
1:t:433:GLN:HA	1:u:349:GLN:HA	2.01	0.42
1:v:423:LEU:HD21	1:v:603:VAL:HG21	2.00	0.42
1:w:345:MET:HE3	1:w:616:TRP:HZ2	1.84	0.42
1:x:414:HIS:HB2	1:x:635:PHE:HE1	1.83	0.42
1:x:524:THR:HG1	1:x:560:GLU:H	1.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:491:LYS:HE2	1:2:452:ALA:HB2	2.01	0.42
1:2:345:MET:HE3	1:2:616:TRP:HZ2	1.84	0.42
1:4:226:SER:HB2	1:4:235:THR:HG22	2.00	0.42
1:5:431:LEU:O	1:5:461:SER:HB3	2.20	0.42
1:5:433:GLN:HA	1:6:349:GLN:HA	2.01	0.42
1:8:286:ASP:OD1	1:8:289:ARG:NH1	2.51	0.42
1:A:474:GLY:HA3	1:A:604:TRP:HB3	2.01	0.42
1:D:446:THR:O	1:N:493:PRO:HG3	2.19	0.42
1:E:431:LEU:O	1:E:461:SER:HB3	2.20	0.42
1:F:253:ARG:NH2	1:F:379:GLN:HE22	2.00	0.42
1:I:286:ASP:OD1	1:I:289:ARG:NH1	2.51	0.42
1:K:226:SER:HB2	1:K:235:THR:HG22	2.00	0.42
1:K:474:GLY:HA3	1:K:604:TRP:HB3	2.01	0.42
1:N:428:ASN:HB2	1:P:344:VAL:HB	2.00	0.42
1:O:286:ASP:OD1	1:O:289:ARG:NH1	2.51	0.42
1:O:427:MET:SD	1:O:464:PHE:CD1	3.11	0.42
1:O:431:LEU:O	1:O:461:SER:HB3	2.20	0.42
1:R:431:LEU:O	1:R:461:SER:HB3	2.20	0.42
1:S:431:LEU:O	1:S:461:SER:HB3	2.20	0.42
1:T:345:MET:HE3	1:T:616:TRP:HZ2	1.84	0.42
1:T:423:LEU:HD21	1:T:603:VAL:HG21	2.00	0.42
1:W:292:ASN:O	1:W:729:LEU:HD21	2.20	0.42
1:X:423:LEU:HD21	1:X:603:VAL:HG21	2.00	0.42
1:Z:427:MET:SD	1:Z:464:PHE:CD1	3.11	0.42
1:Z:452:ALA:HB2	1:4:491:LYS:HE2	2.01	0.42
1:b:431:LEU:O	1:b:461:SER:HB3	2.20	0.42
1:b:474:GLY:HA3	1:b:604:TRP:HB3	2.01	0.42
1:b:524:THR:HG1	1:b:560:GLU:H	1.61	0.42
1:f:431:LEU:O	1:f:461:SER:HB3	2.20	0.42
1:f:432:ASP:OD1	1:f:461:SER:N	2.40	0.42
1:f:474:GLY:HA3	1:f:604:TRP:HB3	2.01	0.42
1:g:345:MET:HE3	1:g:616:TRP:HZ2	1.85	0.42
1:j:445:GLU:OE1	1:j:445:GLU:N	2.47	0.42
1:l:427:MET:SD	1:l:464:PHE:CD1	3.12	0.42
1:m:474:GLY:HA3	1:m:604:TRP:HB3	2.01	0.42
1:q:474:GLY:HA3	1:q:604:TRP:HB3	2.01	0.42
1:u:286:ASP:OD1	1:u:289:ARG:NH1	2.51	0.42
1:v:345:MET:HE3	1:v:616:TRP:HZ2	1.85	0.42
1:w:427:MET:SD	1:w:464:PHE:CD1	3.11	0.42
1:w:431:LEU:O	1:w:461:SER:HB3	2.20	0.42
1:w:491:LYS:HB2	1:y:448:ASN:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:253:ARG:NH2	1:y:379:GLN:HE22	2.00	0.42
1:z:605:GLN:HA	1:1:623:ASP:HB2	2.01	0.42
1:3:484:LYS:HE2	1:3:557:PHE:HE2	1.82	0.42
1:6:292:ASN:O	1:6:729:LEU:HD21	2.20	0.42
1:6:446:THR:O	1:7:493:PRO:HG3	2.19	0.42
1:7:423:LEU:HD21	1:7:603:VAL:HG21	2.00	0.42
1:8:427:MET:SD	1:8:464:PHE:CD1	3.11	0.42
1:A:227:THR:O	1:A:227:THR:HG23	2.17	0.42
1:B:226:SER:HB2	1:B:235:THR:HG22	2.00	0.42
1:C:345:MET:HE3	1:C:616:TRP:HZ2	1.84	0.42
1:C:491:LYS:HB2	1:M:448:ASN:HA	2.02	0.42
1:D:276:ASN:OD1	1:D:615:ILE:N	2.46	0.42
1:D:491:LYS:HB2	1:P:448:ASN:HA	2.02	0.42
1:E:491:LYS:HB2	1:F:448:ASN:HA	2.01	0.42
1:G:292:ASN:O	1:G:729:LEU:HD21	2.20	0.42
1:G:414:HIS:HB2	1:G:635:PHE:HE1	1.83	0.42
1:H:448:ASN:HA	1:W:491:LYS:HB2	2.02	0.42
1:M:218:ALA:H	1:N:400:ASN:ND2	2.14	0.42
1:M:474:GLY:HA3	1:M:604:TRP:HB3	2.02	0.42
1:O:433:GLN:HA	1:m:349:GLN:HA	2.02	0.42
1:O:445:GLU:OE1	1:O:445:GLU:N	2.47	0.42
1:O:605:GLN:HA	1:m:623:ASP:HB2	2.02	0.42
1:P:292:ASN:O	1:P:729:LEU:HD21	2.20	0.42
1:P:445:GLU:OE1	1:P:445:GLU:N	2.47	0.42
1:T:286:ASP:OD1	1:T:289:ARG:NH1	2.51	0.42
1:V:344:VAL:HB	1:X:428:ASN:HB2	2.00	0.42
1:V:431:LEU:O	1:V:461:SER:HB3	2.20	0.42
1:V:605:GLN:HA	1:e:623:ASP:HB2	2.02	0.42
1:W:345:MET:HE3	1:W:616:TRP:HZ2	1.84	0.42
1:Y:292:ASN:O	1:Y:729:LEU:HD21	2.20	0.42
1:Y:423:LEU:HD21	1:Y:603:VAL:HG21	2.00	0.42
1:Y:484:LYS:HE2	1:Y:557:PHE:HE2	1.82	0.42
1:Z:491:LYS:HB2	1:3:448:ASN:HA	2.01	0.42
1:a:292:ASN:O	1:a:729:LEU:HD21	2.20	0.42
1:a:423:LEU:HD21	1:a:603:VAL:HG21	2.00	0.42
1:a:433:GLN:HA	1:8:349:GLN:HA	2.01	0.42
1:a:448:ASN:HA	1:8:491:LYS:HB2	2.01	0.42
1:a:605:GLN:HA	1:8:623:ASP:HB2	2.01	0.42
1:c:415:SER:OG	1:o:623:ASP:OD1	2.28	0.42
1:c:623:ASP:HB2	1:p:605:GLN:HA	2.02	0.42
1:d:232:LYS:HB2	1:d:682:TRP:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:474:GLY:HA3	1:h:604:TRP:HB3	2.02	0.42
1:j:292:ASN:O	1:j:729:LEU:HD21	2.20	0.42
1:l:286:ASP:OD1	1:l:289:ARG:NH1	2.51	0.42
1:n:232:LYS:HB2	1:n:682:TRP:O	2.20	0.42
1:o:423:LEU:HD21	1:o:603:VAL:HG21	2.00	0.42
1:p:431:LEU:O	1:p:461:SER:HB3	2.20	0.42
1:q:431:LEU:O	1:q:461:SER:HB3	2.20	0.42
1:r:448:ASN:HA	1:s:491:LYS:HB2	2.02	0.42
1:r:484:LYS:HE2	1:r:557:PHE:HE2	1.82	0.42
1:s:346:ASP:HB2	1:s:617:ALA:HA	2.01	0.42
1:u:452:ALA:HB2	1:v:491:LYS:HE2	2.01	0.42
1:v:474:GLY:HA3	1:v:604:TRP:HB3	2.01	0.42
1:w:346:ASP:HB2	1:w:617:ALA:HA	2.01	0.42
1:z:349:GLN:HA	1:2:433:GLN:HA	2.02	0.42
1:z:414:HIS:HB2	1:z:635:PHE:HE1	1.83	0.42
1:3:292:ASN:O	1:3:729:LEU:HD21	2.20	0.42
1:4:474:GLY:HA3	1:4:604:TRP:HB3	2.01	0.42
1:6:253:ARG:NH2	1:6:379:GLN:HE22	2.00	0.42
1:8:276:ASN:OD1	1:8:615:ILE:N	2.46	0.42
1:A:491:LYS:HE2	1:I:452:ALA:HB2	2.01	0.42
1:A:605:GLN:HA	1:G:623:ASP:HB2	2.01	0.42
1:E:346:ASP:HB2	1:E:617:ALA:HA	2.00	0.42
1:E:427:MET:SD	1:E:464:PHE:CD1	3.12	0.42
1:F:491:LYS:HE2	1:Q:452:ALA:HB2	2.01	0.42
1:H:345:MET:HE3	1:H:616:TRP:HZ2	1.84	0.42
1:H:427:MET:SD	1:H:464:PHE:CD1	3.12	0.42
1:H:623:ASP:HB2	1:Y:605:GLN:HA	2.02	0.42
1:J:232:LYS:HB2	1:J:682:TRP:O	2.20	0.42
1:J:428:ASN:HB2	1:L:344:VAL:HB	2.00	0.42
1:L:232:LYS:HB2	1:L:682:TRP:O	2.20	0.42
1:N:414:HIS:HB2	1:N:635:PHE:HE1	1.83	0.42
1:Q:414:HIS:HB2	1:Q:635:PHE:HE1	1.83	0.42
1:S:448:ASN:HA	1:U:491:LYS:HB2	2.02	0.42
1:T:349:GLN:HA	1:l:433:GLN:HA	2.02	0.42
1:T:623:ASP:HB2	1:l:605:GLN:HA	2.02	0.42
1:U:346:ASP:HB2	1:U:617:ALA:HA	2.01	0.42
1:U:431:LEU:O	1:U:461:SER:HB3	2.20	0.42
1:V:623:ASP:HB2	1:X:605:GLN:HA	2.02	0.42
1:W:446:THR:O	1:Y:493:PRO:HG3	2.20	0.42
1:W:576:GLN:HB2	1:Y:506:HIS:CE1	2.55	0.42
1:X:474:GLY:HA3	1:X:604:TRP:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:605:GLN:HA	1:4:623:ASP:HB2	2.02	0.42
1:a:414:HIS:HB2	1:a:635:PHE:HE1	1.83	0.42
1:a:484:LYS:HE2	1:a:557:PHE:HE2	1.82	0.42
1:d:605:GLN:HA	1:l:623:ASP:HB2	2.01	0.42
1:g:491:LYS:HB2	1:h:448:ASN:HA	2.02	0.42
1:m:286:ASP:OD1	1:m:289:ARG:NH1	2.51	0.42
1:o:428:ASN:HB2	1:p:344:VAL:HB	2.00	0.42
1:o:445:GLU:OE1	1:o:445:GLU:N	2.47	0.42
1:o:474:GLY:HA3	1:o:604:TRP:HB3	2.02	0.42
1:o:605:GLN:HA	1:p:623:ASP:HB2	2.02	0.42
1:q:356:PHE:HA	1:q:357:PRO:HD3	1.95	0.42
1:s:431:LEU:O	1:s:461:SER:HB3	2.20	0.42
1:t:292:ASN:O	1:t:729:LEU:HD21	2.20	0.42
1:t:623:ASP:HB2	1:v:605:GLN:HA	2.01	0.42
1:u:345:MET:HE3	1:u:616:TRP:HZ2	1.84	0.42
1:u:433:GLN:HA	1:v:349:GLN:HA	2.01	0.42
1:x:452:ALA:HB2	1:y:491:LYS:HE2	2.01	0.42
1:z:232:LYS:HB2	1:z:682:TRP:O	2.20	0.42
1:1:433:GLN:HA	1:2:349:GLN:HA	2.02	0.42
1:3:423:LEU:HD21	1:3:603:VAL:HG21	2.00	0.42
1:5:345:MET:HE3	1:5:616:TRP:HZ2	1.84	0.42
1:5:356:PHE:HA	1:5:357:PRO:HD3	1.95	0.42
1:5:427:MET:SD	1:5:464:PHE:CD1	3.12	0.42
1:5:448:ASN:HA	1:6:491:LYS:HB2	2.02	0.42
1:5:452:ALA:HB2	1:6:491:LYS:HE2	2.01	0.42
1:7:292:ASN:O	1:7:729:LEU:HD21	2.20	0.42
1:8:274:ASP:OD1	1:8:345:MET:HG3	2.20	0.42
1:B:433:GLN:HA	1:J:349:GLN:HA	2.02	0.42
1:B:623:ASP:HB2	1:L:605:GLN:HA	2.02	0.42
1:C:577:ILE:HA	1:b:505:THR:HG22	2.02	0.42
1:D:506:HIS:CE1	1:P:576:GLN:HB2	2.53	0.42
1:E:452:ALA:HB2	1:Q:491:LYS:HE2	2.01	0.42
1:E:491:LYS:HE2	1:F:452:ALA:HB2	2.02	0.42
1:E:623:ASP:HB2	1:F:605:GLN:HA	2.01	0.42
1:F:274:ASP:OD1	1:F:345:MET:HG3	2.20	0.42
1:F:623:ASP:HB2	1:Q:605:GLN:HA	2.02	0.42
1:G:474:GLY:HA3	1:G:604:TRP:HB3	2.01	0.42
1:H:226:SER:HB2	1:H:235:THR:HG22	2.00	0.42
1:H:274:ASP:OD1	1:H:345:MET:HG3	2.20	0.42
1:H:346:ASP:HB2	1:H:617:ALA:HA	2.00	0.42
1:H:349:GLN:HA	1:Y:433:GLN:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:452:ALA:HB2	1:W:491:LYS:HE2	2.01	0.42
1:I:232:LYS:HB2	1:I:682:TRP:O	2.20	0.42
1:I:345:MET:HE3	1:I:616:TRP:HZ2	1.84	0.42
1:J:431:LEU:O	1:J:461:SER:HB3	2.20	0.42
1:J:474:GLY:HA3	1:J:604:TRP:HB3	2.01	0.42
1:K:506:HIS:CE1	1:8:576:GLN:HB2	2.53	0.42
1:K:623:ASP:HB2	1:8:605:GLN:HA	2.02	0.42
1:L:292:ASN:O	1:L:729:LEU:HD21	2.20	0.42
1:M:292:ASN:O	1:M:729:LEU:HD21	2.20	0.42
1:O:474:GLY:HA3	1:O:604:TRP:HB3	2.01	0.42
1:Q:474:GLY:HA3	1:Q:604:TRP:HB3	2.01	0.42
1:R:232:LYS:HB2	1:R:682:TRP:O	2.20	0.42
1:T:346:ASP:HB2	1:T:617:ALA:HA	2.00	0.42
1:T:448:ASN:HA	1:d:491:LYS:HB2	2.02	0.42
1:T:491:LYS:HE2	1:l:452:ALA:HB2	2.01	0.42
1:U:292:ASN:O	1:U:729:LEU:HD21	2.20	0.42
1:V:232:LYS:HB2	1:V:682:TRP:O	2.20	0.42
1:X:274:ASP:OD1	1:X:345:MET:HG3	2.20	0.42
1:Y:232:LYS:HB2	1:Y:682:TRP:O	2.20	0.42
1:Y:474:GLY:HA3	1:Y:604:TRP:HB3	2.01	0.42
1:Z:292:ASN:O	1:Z:729:LEU:HD21	2.20	0.42
1:Z:349:GLN:HA	1:3:433:GLN:HA	2.01	0.42
1:Z:623:ASP:HB2	1:3:605:GLN:HA	2.01	0.42
1:a:232:LYS:HB2	1:a:682:TRP:O	2.20	0.42
1:c:605:GLN:HA	1:o:623:ASP:HB2	2.01	0.42
1:e:232:LYS:HB2	1:e:682:TRP:O	2.20	0.42
1:f:505:THR:HG22	1:g:577:ILE:HA	2.02	0.42
1:h:218:ALA:H	1:i:400:ASN:ND2	2.14	0.42
1:h:232:LYS:HB2	1:h:682:TRP:O	2.20	0.42
1:h:414:HIS:HB2	1:h:635:PHE:HE1	1.83	0.42
1:i:274:ASP:OD1	1:i:345:MET:HG3	2.20	0.42
1:i:414:HIS:HB2	1:i:635:PHE:HE1	1.83	0.42
1:i:493:PRO:HG3	1:k:446:THR:O	2.20	0.42
1:j:253:ARG:NH2	1:j:379:GLN:HE22	2.00	0.42
1:l:274:ASP:OD1	1:l:345:MET:HG3	2.20	0.42
1:m:448:ASN:HA	1:n:491:LYS:HB2	2.02	0.42
1:o:274:ASP:OD1	1:o:345:MET:HG3	2.20	0.42
1:q:232:LYS:HB2	1:q:682:TRP:O	2.20	0.42
1:r:286:ASP:OD1	1:r:289:ARG:NH1	2.51	0.42
1:s:292:ASN:O	1:s:729:LEU:HD21	2.20	0.42
1:t:226:SER:HB2	1:t:235:THR:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:345:MET:HE3	1:t:616:TRP:HZ2	1.84	0.42
1:t:414:HIS:HB2	1:t:635:PHE:HE1	1.83	0.42
1:u:232:LYS:HB2	1:u:682:TRP:O	2.20	0.42
1:w:491:LYS:HE2	1:y:452:ALA:HB2	2.02	0.42
1:w:623:ASP:HB2	1:y:605:GLN:HA	2.01	0.42
1:y:274:ASP:OD1	1:y:345:MET:HG3	2.20	0.42
1:z:292:ASN:O	1:z:729:LEU:HD21	2.20	0.42
1:1:226:SER:HB2	1:1:235:THR:HG22	2.00	0.42
1:2:232:LYS:HB2	1:2:682:TRP:O	2.20	0.42
1:2:431:LEU:O	1:2:461:SER:HB3	2.20	0.42
1:2:474:GLY:HA3	1:2:604:TRP:HB3	2.01	0.42
1:3:232:LYS:HB2	1:3:682:TRP:O	2.20	0.42
1:5:226:SER:HB2	1:5:235:THR:HG22	2.00	0.42
1:5:274:ASP:OD1	1:5:345:MET:HG3	2.20	0.42
1:6:345:MET:HE3	1:6:616:TRP:HZ2	1.84	0.42
1:6:414:HIS:HB2	1:6:635:PHE:HE1	1.83	0.42
1:6:576:GLN:HB2	1:7:506:HIS:CE1	2.55	0.42
1:7:232:LYS:HB2	1:7:682:TRP:O	2.20	0.42
1:7:431:LEU:O	1:7:461:SER:HB3	2.20	0.42
1:8:292:ASN:O	1:8:729:LEU:HD21	2.20	0.42
1:A:274:ASP:OD1	1:A:345:MET:HG3	2.20	0.42
1:C:274:ASP:OD1	1:C:345:MET:HG3	2.20	0.42
1:C:505:THR:HG22	1:M:577:ILE:HA	2.02	0.42
1:E:274:ASP:OD1	1:E:345:MET:HG3	2.20	0.42
1:E:448:ASN:HA	1:Q:491:LYS:HB2	2.02	0.42
1:I:431:LEU:O	1:I:461:SER:HB3	2.20	0.42
1:M:232:LYS:HB2	1:M:682:TRP:O	2.20	0.42
1:N:253:ARG:NH2	1:N:379:GLN:HE22	2.00	0.42
1:N:345:MET:HE3	1:N:616:TRP:HZ2	1.84	0.42
1:O:274:ASP:OD1	1:O:345:MET:HG3	2.20	0.42
1:O:577:ILE:HA	1:m:505:THR:HG22	2.02	0.42
1:O:623:ASP:HB2	1:n:605:GLN:HA	2.01	0.42
1:P:346:ASP:HB2	1:P:617:ALA:HA	2.00	0.42
1:Q:292:ASN:O	1:Q:729:LEU:HD21	2.20	0.42
1:R:623:ASP:HB2	1:U:605:GLN:HA	2.02	0.42
1:S:274:ASP:OD1	1:S:345:MET:HG3	2.20	0.42
1:S:286:ASP:OD1	1:S:289:ARG:NH1	2.51	0.42
1:S:427:MET:SD	1:S:464:PHE:CD1	3.12	0.42
1:S:484:LYS:HE2	1:S:557:PHE:HE2	1.82	0.42
1:T:505:THR:HG22	1:l:577:ILE:HA	2.02	0.42
1:V:448:ASN:HA	1:e:491:LYS:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:414:HIS:HB2	1:W:635:PHE:HE1	1.83	0.42
1:X:623:ASP:HB2	1:e:605:GLN:HA	2.01	0.42
1:Y:431:LEU:O	1:Y:461:SER:HB3	2.20	0.42
1:Z:274:ASP:OD1	1:Z:345:MET:HG3	2.20	0.42
1:Z:431:LEU:O	1:Z:461:SER:HB3	2.20	0.42
1:a:274:ASP:OD1	1:a:345:MET:HG3	2.20	0.42
1:a:345:MET:HE3	1:a:616:TRP:HZ2	1.84	0.42
1:b:274:ASP:OD1	1:b:345:MET:HG3	2.20	0.42
1:c:232:LYS:HB2	1:c:682:TRP:O	2.20	0.42
1:c:431:LEU:O	1:c:461:SER:HB3	2.20	0.42
1:e:427:MET:SD	1:e:464:PHE:CD1	3.12	0.42
1:e:431:LEU:O	1:e:461:SER:HB3	2.20	0.42
1:g:274:ASP:OD1	1:g:345:MET:HG3	2.20	0.42
1:g:400:ASN:ND2	1:k:218:ALA:H	2.16	0.42
1:g:505:THR:HG22	1:h:577:ILE:HA	2.02	0.42
1:h:292:ASN:O	1:h:729:LEU:HD21	2.20	0.42
1:i:506:HIS:CE1	1:k:576:GLN:HB2	2.55	0.42
1:i:533:SER:OG	1:i:570:ASP:OD2	2.32	0.42
1:j:346:ASP:HB2	1:j:617:ALA:HA	2.00	0.42
1:k:346:ASP:HB2	1:k:617:ALA:HA	2.00	0.42
1:l:474:GLY:HA3	1:l:604:TRP:HB3	2.01	0.42
1:m:346:ASP:HB2	1:m:617:ALA:HA	2.00	0.42
1:p:232:LYS:HB2	1:p:682:TRP:O	2.20	0.42
1:p:292:ASN:O	1:p:729:LEU:HD21	2.20	0.42
1:p:427:MET:SD	1:p:464:PHE:CD1	3.11	0.42
1:q:346:ASP:HB2	1:q:617:ALA:HA	2.00	0.42
1:q:623:ASP:HB2	1:s:605:GLN:HA	2.02	0.42
1:r:274:ASP:OD1	1:r:345:MET:HG3	2.20	0.42
1:t:232:LYS:HB2	1:t:682:TRP:O	2.20	0.42
1:t:346:ASP:HB2	1:t:617:ALA:HA	2.00	0.42
1:t:474:GLY:HA3	1:t:604:TRP:HB3	2.02	0.42
1:v:274:ASP:OD1	1:v:345:MET:HG3	2.20	0.42
1:w:448:ASN:HA	1:x:491:LYS:HB2	2.02	0.42
1:x:474:GLY:HA3	1:x:604:TRP:HB3	2.01	0.42
1:x:605:GLN:HA	1:y:623:ASP:HB2	2.02	0.42
1:z:431:LEU:O	1:z:461:SER:HB3	2.20	0.42
1:3:345:MET:HE3	1:3:616:TRP:HZ2	1.84	0.42
1:7:474:GLY:HA3	1:7:604:TRP:HB3	2.01	0.42
1:8:431:LEU:O	1:8:461:SER:HB3	2.20	0.42
1:8:484:LYS:HE2	1:8:557:PHE:HE2	1.82	0.42
1:B:474:GLY:HA3	1:B:604:TRP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:346:ASP:HB2	1:C:617:ALA:HA	2.01	0.42
1:C:400:ASN:ND2	1:D:218:ALA:H	2.16	0.42
1:C:431:LEU:O	1:C:461:SER:HB3	2.20	0.42
1:C:605:GLN:HA	1:b:623:ASP:HB2	2.02	0.42
1:D:505:THR:HG22	1:P:577:ILE:HA	2.02	0.42
1:D:576:GLN:HB2	1:N:506:HIS:CE1	2.55	0.42
1:F:292:ASN:O	1:F:729:LEU:HD21	2.20	0.42
1:F:474:GLY:HA3	1:F:604:TRP:HB3	2.01	0.42
1:G:226:SER:HB2	1:G:235:THR:HG22	2.00	0.42
1:G:232:LYS:HB2	1:G:682:TRP:O	2.20	0.42
1:G:274:ASP:OD1	1:G:345:MET:HG3	2.20	0.42
1:G:345:MET:HE3	1:G:616:TRP:HZ2	1.84	0.42
1:G:346:ASP:HB2	1:G:617:ALA:HA	2.01	0.42
1:G:427:MET:SD	1:G:464:PHE:CD1	3.12	0.42
1:H:577:ILE:HA	1:W:505:THR:HG22	2.02	0.42
1:I:484:LYS:HE2	1:I:557:PHE:HE2	1.82	0.42
1:K:292:ASN:O	1:K:729:LEU:HD21	2.20	0.42
1:K:427:MET:SD	1:K:464:PHE:CD1	3.12	0.42
1:L:445:GLU:OE1	1:L:445:GLU:N	2.47	0.42
1:M:345:MET:HE3	1:M:616:TRP:HZ2	1.85	0.42
1:M:414:HIS:HB2	1:M:635:PHE:HE1	1.83	0.42
1:N:274:ASP:OD1	1:N:345:MET:HG3	2.20	0.42
1:O:232:LYS:HB2	1:O:682:TRP:O	2.20	0.42
1:O:491:LYS:HB2	1:n:448:ASN:HA	2.01	0.42
1:Q:445:GLU:OE1	1:Q:445:GLU:N	2.47	0.42
1:R:346:ASP:HB2	1:R:617:ALA:HA	2.00	0.42
1:R:505:THR:HG22	1:U:577:ILE:HA	2.02	0.42
1:S:345:MET:HE3	1:S:616:TRP:HZ2	1.84	0.42
1:V:292:ASN:O	1:V:729:LEU:HD21	2.20	0.42
1:W:274:ASP:OD1	1:W:345:MET:HG3	2.20	0.42
1:X:288:GLN:NE2	1:X:698:PHE:O	2.47	0.42
1:X:427:MET:SD	1:X:464:PHE:CD1	3.12	0.42
1:Z:232:LYS:HB2	1:Z:682:TRP:O	2.20	0.42
1:Z:576:GLN:HB2	1:4:506:HIS:CE1	2.53	0.42
1:c:427:MET:SD	1:c:464:PHE:CD1	3.12	0.42
1:c:491:LYS:HB2	1:p:448:ASN:HA	2.02	0.42
1:e:268:THR:OG1	1:e:366:TYR:O	2.24	0.42
1:f:274:ASP:OD1	1:f:345:MET:HG3	2.20	0.42
1:f:345:MET:HE3	1:f:616:TRP:HZ2	1.84	0.42
1:g:431:LEU:O	1:g:461:SER:HB3	2.20	0.42
1:i:288:GLN:NE2	1:i:698:PHE:O	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:445:GLU:OE1	1:k:445:GLU:N	2.47	0.42
1:k:474:GLY:HA3	1:k:604:TRP:HB3	2.01	0.42
1:l:232:LYS:HB2	1:l:682:TRP:O	2.20	0.42
1:m:431:LEU:O	1:m:461:SER:HB3	2.20	0.42
1:o:427:MET:SD	1:o:464:PHE:CD1	3.12	0.42
1:q:505:THR:HG22	1:s:577:ILE:HA	2.02	0.42
1:s:232:LYS:HB2	1:s:682:TRP:O	2.20	0.42
1:t:274:ASP:OD1	1:t:345:MET:HG3	2.20	0.42
1:t:427:MET:SD	1:t:464:PHE:CD1	3.12	0.42
1:u:431:LEU:O	1:u:461:SER:HB3	2.20	0.42
1:v:292:ASN:O	1:v:729:LEU:HD21	2.20	0.42
1:w:274:ASP:OD1	1:w:345:MET:HG3	2.20	0.42
1:w:452:ALA:HB2	1:x:491:LYS:HE2	2.01	0.42
1:x:292:ASN:O	1:x:729:LEU:HD21	2.20	0.42
1:x:445:GLU:OE1	1:x:445:GLU:N	2.47	0.42
1:y:474:GLY:HA3	1:y:604:TRP:HB3	2.01	0.42
1:1:474:GLY:HA3	1:1:604:TRP:HB3	2.01	0.42
1:2:427:MET:SD	1:2:464:PHE:CD1	3.12	0.42
1:3:274:ASP:OD1	1:3:345:MET:HG3	2.20	0.42
1:3:414:HIS:HB2	1:3:635:PHE:HE1	1.83	0.42
1:5:292:ASN:O	1:5:729:LEU:HD21	2.20	0.42
1:5:346:ASP:HB2	1:5:617:ALA:HA	2.00	0.42
1:5:623:ASP:HB2	1:7:605:GLN:HA	2.02	0.42
1:A:292:ASN:O	1:A:729:LEU:HD21	2.20	0.42
1:A:349:GLN:HA	1:I:433:GLN:HA	2.02	0.42
1:B:452:ALA:HB2	1:J:491:LYS:HE2	2.01	0.42
1:B:491:LYS:HB2	1:L:448:ASN:HA	2.02	0.42
1:D:346:ASP:HB2	1:D:617:ALA:HA	2.01	0.42
1:D:474:GLY:HA3	1:D:604:TRP:HB3	2.01	0.42
1:D:623:ASP:HB2	1:P:605:GLN:HA	2.02	0.42
1:H:292:ASN:O	1:H:729:LEU:HD21	2.20	0.42
1:J:448:ASN:HA	1:L:491:LYS:HB2	2.02	0.42
1:L:431:LEU:O	1:L:461:SER:HB3	2.20	0.42
1:M:493:PRO:HG3	1:b:446:THR:O	2.20	0.42
1:M:505:THR:HG22	1:b:577:ILE:HA	2.02	0.42
1:N:288:GLN:NE2	1:N:698:PHE:O	2.47	0.42
1:N:431:LEU:O	1:N:461:SER:HB3	2.20	0.42
1:N:533:SER:OG	1:N:570:ASP:OD2	2.32	0.42
1:O:448:ASN:HA	1:m:491:LYS:HB2	2.02	0.42
1:O:452:ALA:HB2	1:m:491:LYS:HE2	2.01	0.42
1:Q:274:ASP:OD1	1:Q:345:MET:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:288:GLN:NE2	1:Q:698:PHE:O	2.47	0.42
1:R:277:ARG:NH2	1:R:279:HIS:CE1	2.88	0.42
1:R:448:ASN:HA	1:S:491:LYS:HB2	2.02	0.42
1:S:292:ASN:O	1:S:729:LEU:HD21	2.20	0.42
1:S:433:GLN:HA	1:U:349:GLN:HA	2.01	0.42
1:T:431:LEU:O	1:T:461:SER:HB3	2.20	0.42
1:T:491:LYS:HB2	1:l:448:ASN:HA	2.02	0.42
1:U:232:LYS:HB2	1:U:682:TRP:O	2.20	0.42
1:U:277:ARG:NH2	1:U:279:HIS:CE1	2.88	0.42
1:U:474:GLY:HA3	1:U:604:TRP:HB3	2.01	0.42
1:V:491:LYS:HB2	1:X:448:ASN:HA	2.02	0.42
1:W:232:LYS:HB2	1:W:682:TRP:O	2.20	0.42
1:Y:346:ASP:HB2	1:Y:617:ALA:HA	2.00	0.42
1:Z:484:LYS:HE2	1:Z:557:PHE:HE2	1.82	0.42
1:b:445:GLU:OE1	1:b:445:GLU:N	2.47	0.42
1:c:268:THR:OG1	1:c:366:TYR:O	2.24	0.42
1:c:458:LYS:NZ	1:o:350:GLU:OE2	2.44	0.42
1:d:448:ASN:HA	1:l:491:LYS:HB2	2.01	0.42
1:e:432:ASP:OD1	1:e:461:SER:N	2.40	0.42
1:f:446:THR:O	1:h:493:PRO:HG3	2.20	0.42
1:f:623:ASP:HB2	1:g:605:GLN:HA	2.02	0.42
1:g:346:ASP:HB2	1:g:617:ALA:HA	2.01	0.42
1:h:345:MET:HE3	1:h:616:TRP:HZ2	1.85	0.42
1:i:345:MET:HE3	1:i:616:TRP:HZ2	1.85	0.42
1:k:484:LYS:HE2	1:k:557:PHE:HE2	1.82	0.42
1:q:277:ARG:NH2	1:q:279:HIS:CE1	2.88	0.42
1:q:577:ILE:HA	1:r:505:THR:HG22	2.02	0.42
1:r:427:MET:SD	1:r:464:PHE:CD1	3.12	0.42
1:s:277:ARG:NH2	1:s:279:HIS:CE1	2.88	0.42
1:s:474:GLY:HA3	1:s:604:TRP:HB3	2.01	0.42
1:t:484:LYS:HE2	1:t:557:PHE:HE2	1.82	0.42
1:u:474:GLY:HA3	1:u:604:TRP:HB3	2.01	0.42
1:y:292:ASN:O	1:y:729:LEU:HD21	2.20	0.42
1:z:344:VAL:HB	1:2:428:ASN:HB2	2.00	0.42
1:z:491:LYS:HB2	1:2:448:ASN:HA	2.02	0.42
1:1:445:GLU:OE1	1:1:445:GLU:N	2.47	0.42
1:1:452:ALA:HB2	1:2:491:LYS:HE2	2.01	0.42
1:3:445:GLU:OE1	1:3:445:GLU:N	2.47	0.42
1:4:232:LYS:HB2	1:4:682:TRP:O	2.20	0.42
1:4:292:ASN:O	1:4:729:LEU:HD21	2.20	0.42
1:5:349:GLN:HA	1:7:433:GLN:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:577:ILE:HA	1:6:505:THR:HG22	2.02	0.42
1:6:274:ASP:OD1	1:6:345:MET:HG3	2.20	0.42
1:8:232:LYS:HB2	1:8:682:TRP:O	2.20	0.42
1:A:234:THR:HG21	1:A:679:GLN:HE21	1.85	0.42
1:A:277:ARG:NH2	1:A:279:HIS:CE1	2.88	0.42
1:C:484:LYS:HE2	1:C:557:PHE:HE2	1.82	0.42
1:C:623:ASP:HB2	1:M:605:GLN:HA	2.02	0.42
1:D:431:LEU:O	1:D:461:SER:HB3	2.20	0.42
1:D:445:GLU:OE1	1:D:445:GLU:N	2.47	0.42
1:F:345:MET:HE3	1:F:616:TRP:HZ2	1.85	0.42
1:F:349:GLN:HA	1:Q:433:GLN:HA	2.01	0.42
1:K:232:LYS:HB2	1:K:682:TRP:O	2.20	0.42
1:M:268:THR:OG1	1:M:366:TYR:O	2.24	0.42
1:M:274:ASP:OD1	1:M:345:MET:HG3	2.20	0.42
1:N:232:LYS:HB2	1:N:682:TRP:O	2.20	0.42
1:O:484:LYS:HE2	1:O:557:PHE:HE2	1.82	0.42
1:R:274:ASP:OD1	1:R:345:MET:HG3	2.20	0.42
1:R:577:ILE:HA	1:S:505:THR:HG22	2.02	0.42
1:V:427:MET:SD	1:V:464:PHE:CD1	3.11	0.42
1:X:345:MET:HE3	1:X:616:TRP:HZ2	1.85	0.42
1:Z:414:HIS:HB2	1:Z:635:PHE:HE1	1.83	0.42
1:d:277:ARG:NH2	1:d:279:HIS:CE1	2.88	0.42
1:f:445:GLU:OE1	1:f:445:GLU:N	2.47	0.42
1:f:577:ILE:HA	1:h:505:THR:HG22	2.02	0.42
1:g:623:ASP:HB2	1:h:605:GLN:HA	2.02	0.42
1:i:232:LYS:HB2	1:i:682:TRP:O	2.20	0.42
1:i:253:ARG:NH2	1:i:379:GLN:HE22	2.00	0.42
1:i:428:ASN:HB2	1:j:344:VAL:HB	2.01	0.42
1:i:431:LEU:O	1:i:461:SER:HB3	2.20	0.42
1:n:277:ARG:NH2	1:n:279:HIS:CE1	2.88	0.42
1:o:448:ASN:HA	1:p:491:LYS:HB2	2.02	0.42
1:q:274:ASP:OD1	1:q:345:MET:HG3	2.20	0.42
1:q:448:ASN:HA	1:r:491:LYS:HB2	2.02	0.42
1:r:433:GLN:HA	1:s:349:GLN:HA	2.01	0.42
1:v:277:ARG:NH2	1:v:279:HIS:CE1	2.88	0.42
1:x:274:ASP:OD1	1:x:345:MET:HG3	2.20	0.42
1:z:448:ASN:HA	1:1:491:LYS:HB2	2.02	0.42
1:z:474:GLY:HA3	1:z:604:TRP:HB3	2.01	0.42
1:3:346:ASP:HB2	1:3:617:ALA:HA	2.00	0.42
1:4:345:MET:HE3	1:4:616:TRP:HZ2	1.84	0.42
1:6:232:LYS:HB2	1:6:682:TRP:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:234:THR:HG21	1:7:679:GLN:HE21	1.85	0.42
1:7:346:ASP:HB2	1:7:617:ALA:HA	2.01	0.42
1:A:232:LYS:HB2	1:A:682:TRP:O	2.20	0.41
1:B:445:GLU:OE1	1:B:445:GLU:N	2.47	0.41
1:C:349:GLN:HA	1:M:433:GLN:HA	2.01	0.41
1:D:391:PHE:N	1:D:391:PHE:CD1	2.88	0.41
1:D:484:LYS:HE2	1:D:557:PHE:HE2	1.82	0.41
1:F:277:ARG:NH2	1:F:279:HIS:CE1	2.88	0.41
1:F:427:MET:SD	1:F:464:PHE:CD1	3.12	0.41
1:G:484:LYS:HE2	1:G:557:PHE:HE2	1.82	0.41
1:I:474:GLY:HA3	1:I:604:TRP:HB3	2.01	0.41
1:J:277:ARG:NH2	1:J:279:HIS:CE1	2.88	0.41
1:J:427:MET:SD	1:J:464:PHE:CD1	3.12	0.41
1:K:345:MET:HE3	1:K:616:TRP:HZ2	1.84	0.41
1:L:277:ARG:NH2	1:L:279:HIS:CE1	2.88	0.41
1:M:346:ASP:HB2	1:M:617:ALA:HA	2.00	0.41
1:M:491:LYS:HE2	1:b:452:ALA:HB2	2.02	0.41
1:N:292:ASN:O	1:N:729:LEU:HD21	2.20	0.41
1:O:277:ARG:NH2	1:O:279:HIS:CE1	2.88	0.41
1:O:493:PRO:HG3	1:n:446:THR:O	2.20	0.41
1:P:234:THR:HG21	1:P:679:GLN:HE21	1.85	0.41
1:P:253:ARG:NH2	1:P:379:GLN:HE22	2.00	0.41
1:Q:232:LYS:HB2	1:Q:682:TRP:O	2.20	0.41
1:R:491:LYS:HB2	1:U:448:ASN:HA	2.02	0.41
1:V:274:ASP:OD1	1:V:345:MET:HG3	2.20	0.41
1:V:491:LYS:HE2	1:X:452:ALA:HB2	2.01	0.41
1:X:292:ASN:O	1:X:729:LEU:HD21	2.20	0.41
1:Y:234:THR:HG21	1:Y:679:GLN:HE21	1.85	0.41
1:Z:345:MET:HE3	1:Z:616:TRP:HZ2	1.84	0.41
1:a:288:GLN:NE2	1:a:698:PHE:O	2.47	0.41
1:a:431:LEU:O	1:a:461:SER:HB3	2.20	0.41
1:b:345:MET:HE3	1:b:616:TRP:HZ2	1.85	0.41
1:b:423:LEU:HD21	1:b:603:VAL:HG21	2.00	0.41
1:d:234:THR:HG21	1:d:679:GLN:HE21	1.85	0.41
1:f:452:ALA:HB2	1:h:491:LYS:HE2	2.02	0.41
1:g:349:GLN:HA	1:h:433:GLN:HA	2.01	0.41
1:h:274:ASP:OD1	1:h:345:MET:HG3	2.20	0.41
1:i:234:THR:HG21	1:i:679:GLN:HE21	1.85	0.41
1:i:292:ASN:O	1:i:729:LEU:HD21	2.20	0.41
1:i:446:THR:O	1:j:493:PRO:HG3	2.20	0.41
1:j:234:THR:HG21	1:j:679:GLN:HE21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:431:LEU:O	1:j:461:SER:HB3	2.20	0.41
1:j:433:GLN:HA	1:k:349:GLN:HA	2.02	0.41
1:j:605:GLN:HA	1:k:623:ASP:HB2	2.02	0.41
1:k:391:PHE:CD1	1:k:391:PHE:N	2.88	0.41
1:k:431:LEU:O	1:k:461:SER:HB3	2.20	0.41
1:l:277:ARG:NH2	1:l:279:HIS:CE1	2.88	0.41
1:n:234:THR:HG21	1:n:679:GLN:HE21	1.85	0.41
1:n:292:ASN:O	1:n:729:LEU:HD21	2.20	0.41
1:o:288:GLN:NE2	1:o:698:PHE:O	2.47	0.41
1:o:577:ILE:HA	1:p:505:THR:HG22	2.02	0.41
1:r:292:ASN:O	1:r:729:LEU:HD21	2.20	0.41
1:r:345:MET:HE3	1:r:616:TRP:HZ2	1.84	0.41
1:s:427:MET:SD	1:s:464:PHE:CD1	3.12	0.41
1:u:484:LYS:HE2	1:u:557:PHE:HE2	1.82	0.41
1:v:234:THR:HG21	1:v:679:GLN:HE21	1.85	0.41
1:y:234:THR:HG21	1:y:679:GLN:HE21	1.85	0.41
1:y:345:MET:HE3	1:y:616:TRP:HZ2	1.85	0.41
1:y:427:MET:SD	1:y:464:PHE:CD1	3.12	0.41
1:z:277:ARG:NH2	1:z:279:HIS:CE1	2.88	0.41
1:z:433:GLN:HA	1:1:349:GLN:HA	2.01	0.41
1:z:445:GLU:OE1	1:z:445:GLU:N	2.47	0.41
1:1:274:ASP:OD1	1:1:345:MET:HG3	2.20	0.41
1:2:234:THR:HG21	1:2:679:GLN:HE21	1.85	0.41
1:2:274:ASP:OD1	1:2:345:MET:HG3	2.20	0.41
1:2:277:ARG:NH2	1:2:279:HIS:CE1	2.88	0.41
1:2:391:PHE:CD1	1:2:391:PHE:N	2.88	0.41
1:3:431:LEU:O	1:3:461:SER:HB3	2.20	0.41
1:8:345:MET:HE3	1:8:616:TRP:HZ2	1.84	0.41
1:8:414:HIS:HB2	1:8:635:PHE:HE1	1.83	0.41
1:B:274:ASP:OD1	1:B:345:MET:HG3	2.20	0.41
1:B:349:GLN:HA	1:L:433:GLN:HA	2.01	0.41
1:C:391:PHE:CD1	1:C:391:PHE:N	2.88	0.41
1:D:224:CYS:O	1:D:224:CYS:SG	2.79	0.41
1:D:433:GLN:HA	1:N:349:GLN:HA	2.01	0.41
1:E:234:THR:HG21	1:E:679:GLN:HE21	1.85	0.41
1:E:425:ARG:HD3	1:E:425:ARG:HA	1.90	0.41
1:F:234:THR:HG21	1:F:679:GLN:HE21	1.85	0.41
1:G:391:PHE:N	1:G:391:PHE:CD1	2.89	0.41
1:H:232:LYS:HB2	1:H:682:TRP:O	2.20	0.41
1:H:474:GLY:HA3	1:H:604:TRP:HB3	2.01	0.41
1:I:391:PHE:CD1	1:I:391:PHE:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:234:THR:HG21	1:J:679:GLN:HE21	1.85	0.41
1:J:274:ASP:OD1	1:J:345:MET:HG3	2.20	0.41
1:J:391:PHE:CD1	1:J:391:PHE:N	2.89	0.41
1:J:415:SER:OG	1:L:623:ASP:OD1	2.28	0.41
1:K:349:GLN:HA	1:8:433:GLN:HA	2.02	0.41
1:K:577:ILE:HA	1:a:505:THR:HG22	2.02	0.41
1:L:474:GLY:HA3	1:L:604:TRP:HB3	2.01	0.41
1:O:224:CYS:O	1:O:224:CYS:SG	2.79	0.41
1:O:292:ASN:O	1:O:729:LEU:HD21	2.20	0.41
1:P:224:CYS:O	1:P:224:CYS:SG	2.79	0.41
1:R:234:THR:HG21	1:R:679:GLN:HE21	1.85	0.41
1:T:234:THR:HG21	1:T:679:GLN:HE21	1.85	0.41
1:T:391:PHE:N	1:T:391:PHE:CD1	2.88	0.41
1:U:423:LEU:HD21	1:U:603:VAL:HG21	2.00	0.41
1:U:427:MET:SD	1:U:464:PHE:CD1	3.12	0.41
1:V:277:ARG:NH2	1:V:279:HIS:CE1	2.88	0.41
1:V:505:THR:HG22	1:X:577:ILE:HA	2.02	0.41
1:X:491:LYS:HB2	1:e:448:ASN:HA	2.01	0.41
1:Z:234:THR:HG21	1:Z:679:GLN:HE21	1.85	0.41
1:Z:577:ILE:HA	1:4:505:THR:HG22	2.02	0.41
1:a:346:ASP:HB2	1:a:617:ALA:HA	2.00	0.41
1:a:445:GLU:OE1	1:a:445:GLU:N	2.47	0.41
1:d:292:ASN:O	1:d:729:LEU:HD21	2.20	0.41
1:d:446:THR:O	1:l:493:PRO:HG3	2.20	0.41
1:d:577:ILE:HA	1:l:505:THR:HG22	2.02	0.41
1:f:349:GLN:HA	1:g:433:GLN:HA	2.01	0.41
1:f:423:LEU:HD21	1:f:603:VAL:HG21	2.00	0.41
1:g:391:PHE:CD1	1:g:391:PHE:N	2.88	0.41
1:g:484:LYS:HE2	1:g:557:PHE:HE2	1.82	0.41
1:j:345:MET:HE3	1:j:616:TRP:HZ2	1.85	0.41
1:k:274:ASP:OD1	1:k:345:MET:HG3	2.20	0.41
1:l:224:CYS:SG	1:l:224:CYS:O	2.79	0.41
1:l:380:THR:H	1:l:383:ASN:HD22	1.69	0.41
1:m:234:THR:HG21	1:m:679:GLN:HE21	1.85	0.41
1:o:292:ASN:O	1:o:729:LEU:HD21	2.20	0.41
1:o:345:MET:HE3	1:o:616:TRP:HZ2	1.85	0.41
1:p:274:ASP:OD1	1:p:345:MET:HG3	2.20	0.41
1:p:277:ARG:NH2	1:p:279:HIS:CE1	2.88	0.41
1:t:431:LEU:O	1:t:461:SER:HB3	2.20	0.41
1:w:474:GLY:HA3	1:w:604:TRP:HB3	2.01	0.41
1:w:493:PRO:HG3	1:y:446:THR:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:232:LYS:HB2	1:x:682:TRP:O	2.20	0.41
1:x:433:GLN:HA	1:y:349:GLN:HA	2.01	0.41
1:y:277:ARG:NH2	1:y:279:HIS:CE1	2.88	0.41
1:1:234:THR:HG21	1:1:679:GLN:HE21	1.85	0.41
1:1:391:PHE:N	1:1:391:PHE:CD1	2.89	0.41
1:3:288:GLN:NE2	1:3:698:PHE:O	2.47	0.41
1:4:427:MET:SD	1:4:464:PHE:CD1	3.12	0.41
1:4:431:LEU:O	1:4:461:SER:HB3	2.20	0.41
1:7:427:MET:SD	1:7:464:PHE:CD1	3.11	0.41
1:A:452:ALA:HB2	1:G:491:LYS:HE2	2.02	0.41
1:B:234:THR:HG21	1:B:679:GLN:HE21	1.85	0.41
1:B:391:PHE:N	1:B:391:PHE:CD1	2.89	0.41
1:B:491:LYS:HE2	1:L:452:ALA:HB2	2.01	0.41
1:B:505:THR:HG22	1:L:577:ILE:HA	2.02	0.41
1:C:232:LYS:HB2	1:C:682:TRP:O	2.20	0.41
1:C:292:ASN:O	1:C:729:LEU:HD21	2.20	0.41
1:C:380:THR:H	1:C:383:ASN:HD22	1.69	0.41
1:C:433:GLN:HA	1:b:349:GLN:HA	2.01	0.41
1:C:446:THR:O	1:b:493:PRO:HG3	2.21	0.41
1:D:274:ASP:OD1	1:D:345:MET:HG3	2.20	0.41
1:D:292:ASN:O	1:D:729:LEU:HD21	2.20	0.41
1:E:433:GLN:HA	1:Q:349:GLN:HA	2.01	0.41
1:E:474:GLY:HA3	1:E:604:TRP:HB3	2.02	0.41
1:E:493:PRO:HG3	1:F:446:THR:O	2.20	0.41
1:F:391:PHE:N	1:F:391:PHE:CD1	2.89	0.41
1:F:431:LEU:O	1:F:461:SER:HB3	2.20	0.41
1:G:431:LEU:O	1:G:461:SER:HB3	2.20	0.41
1:H:224:CYS:O	1:H:224:CYS:SG	2.79	0.41
1:I:292:ASN:O	1:I:729:LEU:HD21	2.20	0.41
1:K:431:LEU:O	1:K:461:SER:HB3	2.20	0.41
1:N:234:THR:HG21	1:N:679:GLN:HE21	1.85	0.41
1:O:380:THR:H	1:O:383:ASN:HD22	1.69	0.41
1:P:345:MET:HE3	1:P:616:TRP:HZ2	1.84	0.41
1:P:474:GLY:HA3	1:P:604:TRP:HB3	2.01	0.41
1:T:577:ILE:HA	1:d:505:THR:HG22	2.02	0.41
1:X:431:LEU:O	1:X:461:SER:HB3	2.20	0.41
1:Y:427:MET:SD	1:Y:464:PHE:CD1	3.12	0.41
1:Z:391:PHE:CD1	1:Z:391:PHE:N	2.88	0.41
1:Z:433:GLN:HA	1:4:349:GLN:HA	2.02	0.41
1:c:432:ASP:OD1	1:c:461:SER:N	2.40	0.41
1:c:448:ASN:HA	1:o:491:LYS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:474:GLY:HA3	1:e:604:TRP:HB3	2.01	0.41
1:f:232:LYS:HB2	1:f:682:TRP:O	2.20	0.41
1:f:493:PRO:HG3	1:g:446:THR:O	2.21	0.41
1:h:346:ASP:HB2	1:h:617:ALA:HA	2.00	0.41
1:j:224:CYS:O	1:j:224:CYS:SG	2.79	0.41
1:k:224:CYS:O	1:k:224:CYS:SG	2.79	0.41
1:k:292:ASN:O	1:k:729:LEU:HD21	2.20	0.41
1:k:345:MET:HE3	1:k:616:TRP:HZ2	1.84	0.41
1:l:484:LYS:HE2	1:l:557:PHE:HE2	1.82	0.41
1:m:391:PHE:N	1:m:391:PHE:CD1	2.89	0.41
1:o:452:ALA:HB2	1:p:491:LYS:HE2	2.01	0.41
1:q:234:THR:HG21	1:q:679:GLN:HE21	1.85	0.41
1:q:491:LYS:HB2	1:s:448:ASN:HA	2.02	0.41
1:r:232:LYS:HB2	1:r:682:TRP:O	2.20	0.41
1:r:234:THR:HG21	1:r:679:GLN:HE21	1.85	0.41
1:r:288:GLN:NE2	1:r:698:PHE:O	2.47	0.41
1:s:423:LEU:HD21	1:s:603:VAL:HG21	2.00	0.41
1:t:391:PHE:N	1:t:391:PHE:CD1	2.89	0.41
1:t:491:LYS:HB2	1:v:448:ASN:HA	2.01	0.41
1:t:524:THR:HG1	1:t:560:GLU:H	1.64	0.41
1:u:391:PHE:CD1	1:u:391:PHE:N	2.88	0.41
1:v:232:LYS:HB2	1:v:682:TRP:O	2.20	0.41
1:y:391:PHE:N	1:y:391:PHE:CD1	2.89	0.41
1:y:431:LEU:O	1:y:461:SER:HB3	2.20	0.41
1:2:292:ASN:O	1:2:729:LEU:HD21	2.20	0.41
1:3:474:GLY:HA3	1:3:604:TRP:HB3	2.02	0.41
1:3:505:THR:HG22	1:4:577:ILE:HA	2.02	0.41
1:4:253:ARG:NH2	1:4:379:GLN:HE22	2.00	0.41
1:5:224:CYS:O	1:5:224:CYS:SG	2.79	0.41
1:5:232:LYS:HB2	1:5:682:TRP:O	2.20	0.41
1:5:425:ARG:HA	1:5:425:ARG:HD3	1.90	0.41
1:8:234:THR:HG21	1:8:679:GLN:HE21	1.85	0.41
1:8:391:PHE:CD1	1:8:391:PHE:N	2.88	0.41
1:A:491:LYS:HB2	1:I:448:ASN:HA	2.02	0.41
1:B:446:THR:O	1:J:493:PRO:HG3	2.21	0.41
1:C:448:ASN:HA	1:b:491:LYS:HB2	2.02	0.41
1:D:345:MET:HE3	1:D:616:TRP:HZ2	1.84	0.41
1:F:491:LYS:HB2	1:Q:448:ASN:HA	2.02	0.41
1:G:448:ASN:HA	1:I:491:LYS:HB2	2.02	0.41
1:H:391:PHE:CD1	1:H:391:PHE:N	2.88	0.41
1:J:292:ASN:O	1:J:729:LEU:HD21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:224:CYS:O	1:K:224:CYS:SG	2.79	0.41
1:K:277:ARG:NH2	1:K:279:HIS:CE1	2.88	0.41
1:K:505:THR:HG22	1:8:577:ILE:HA	2.02	0.41
1:L:391:PHE:N	1:L:391:PHE:CD1	2.88	0.41
1:M:224:CYS:O	1:M:224:CYS:SG	2.79	0.41
1:M:508:THR:HG1	1:M:513:TRP:CD1	2.39	0.41
1:N:277:ARG:NH2	1:N:279:HIS:CE1	2.88	0.41
1:O:505:THR:HG22	1:n:577:ILE:HA	2.02	0.41
1:P:380:THR:H	1:P:383:ASN:HD22	1.69	0.41
1:P:431:LEU:O	1:P:461:SER:HB3	2.20	0.41
1:Q:224:CYS:O	1:Q:224:CYS:SG	2.79	0.41
1:R:493:PRO:HG3	1:U:446:THR:O	2.21	0.41
1:S:232:LYS:HB2	1:S:682:TRP:O	2.20	0.41
1:S:234:THR:HG21	1:S:679:GLN:HE21	1.85	0.41
1:S:445:GLU:OE1	1:S:445:GLU:N	2.47	0.41
1:T:493:PRO:HG3	1:l:446:THR:O	2.21	0.41
1:V:234:THR:HG21	1:V:679:GLN:HE21	1.86	0.41
1:V:577:ILE:HA	1:e:505:THR:HG22	2.02	0.41
1:X:234:THR:HG21	1:X:679:GLN:HE21	1.85	0.41
1:X:350:GLU:OE2	1:e:458:LYS:NZ	2.44	0.41
1:X:505:THR:HG22	1:e:577:ILE:HA	2.02	0.41
1:Z:277:ARG:NH2	1:Z:279:HIS:CE1	2.88	0.41
1:a:474:GLY:HA3	1:a:604:TRP:HB3	2.02	0.41
1:b:232:LYS:HB2	1:b:682:TRP:O	2.20	0.41
1:c:277:ARG:NH2	1:c:279:HIS:CE1	2.88	0.41
1:c:474:GLY:HA3	1:c:604:TRP:HB3	2.01	0.41
1:c:505:THR:HG22	1:p:577:ILE:HA	2.02	0.41
1:c:508:THR:HG1	1:c:513:TRP:CD1	2.39	0.41
1:e:277:ARG:NH2	1:e:279:HIS:CE1	2.88	0.41
1:f:491:LYS:HB2	1:g:448:ASN:HA	2.02	0.41
1:g:232:LYS:HB2	1:g:682:TRP:O	2.20	0.41
1:h:268:THR:OG1	1:h:366:TYR:O	2.24	0.41
1:i:277:ARG:NH2	1:i:279:HIS:CE1	2.88	0.41
1:j:400:ASN:ND2	1:l:218:ALA:H	2.14	0.41
1:l:292:ASN:O	1:l:729:LEU:HD21	2.20	0.41
1:m:292:ASN:O	1:m:729:LEU:HD21	2.20	0.41
1:m:577:ILE:HA	1:n:505:THR:HG22	2.02	0.41
1:o:277:ARG:NH2	1:o:279:HIS:CE1	2.88	0.41
1:o:431:LEU:O	1:o:461:SER:HB3	2.20	0.41
1:p:474:GLY:HA3	1:p:604:TRP:HB3	2.01	0.41
1:q:493:PRO:HG3	1:s:446:THR:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:448:ASN:HA	1:u:491:LYS:HB2	2.02	0.41
1:t:452:ALA:HB2	1:u:491:LYS:HE2	2.01	0.41
1:t:493:PRO:HG3	1:v:446:THR:O	2.20	0.41
1:w:234:THR:HG21	1:w:679:GLN:HE21	1.85	0.41
1:w:391:PHE:CD1	1:w:391:PHE:N	2.88	0.41
1:w:433:GLN:HA	1:x:349:GLN:HA	2.01	0.41
1:z:446:THR:O	1:1:493:PRO:HG3	2.20	0.41
1:z:577:ILE:HA	1:1:505:THR:HG22	2.02	0.41
1:1:232:LYS:HB2	1:1:682:TRP:O	2.20	0.41
1:1:431:LEU:O	1:1:461:SER:HB3	2.20	0.41
1:3:349:GLN:HA	1:4:433:GLN:HA	2.01	0.41
1:4:224:CYS:O	1:4:224:CYS:SG	2.79	0.41
1:4:277:ARG:NH2	1:4:279:HIS:CE1	2.88	0.41
1:5:391:PHE:CD1	1:5:391:PHE:N	2.88	0.41
1:5:446:THR:O	1:6:493:PRO:HG3	2.21	0.41
1:5:474:GLY:HA3	1:5:604:TRP:HB3	2.01	0.41
1:8:277:ARG:NH2	1:8:279:HIS:CE1	2.88	0.41
1:8:380:THR:H	1:8:383:ASN:HD22	1.69	0.41
1:A:446:THR:O	1:G:493:PRO:HG3	2.20	0.41
1:B:232:LYS:HB2	1:B:682:TRP:O	2.20	0.41
1:B:493:PRO:HG3	1:L:446:THR:O	2.21	0.41
1:C:427:MET:SD	1:C:464:PHE:CD1	3.11	0.41
1:E:391:PHE:CD1	1:E:391:PHE:N	2.89	0.41
1:G:452:ALA:HB2	1:I:491:LYS:HE2	2.01	0.41
1:H:446:THR:O	1:W:493:PRO:HG3	2.21	0.41
1:K:234:THR:HG21	1:K:679:GLN:HE21	1.85	0.41
1:K:433:GLN:HA	1:a:349:GLN:HA	2.01	0.41
1:N:391:PHE:CD1	1:N:391:PHE:N	2.88	0.41
1:N:605:GLN:HA	1:P:623:ASP:HB2	2.02	0.41
1:O:446:THR:O	1:m:493:PRO:HG3	2.21	0.41
1:R:224:CYS:O	1:R:224:CYS:SG	2.79	0.41
1:T:277:ARG:NH2	1:T:279:HIS:CE1	2.88	0.41
1:T:446:THR:O	1:d:493:PRO:HG3	2.21	0.41
1:U:224:CYS:O	1:U:224:CYS:SG	2.79	0.41
1:V:474:GLY:HA3	1:V:604:TRP:HB3	2.01	0.41
1:X:224:CYS:O	1:X:224:CYS:SG	2.79	0.41
1:X:277:ARG:NH2	1:X:279:HIS:CE1	2.88	0.41
1:Y:224:CYS:SG	1:Y:224:CYS:O	2.79	0.41
1:Z:380:THR:H	1:Z:383:ASN:HD22	1.69	0.41
1:c:292:ASN:O	1:c:729:LEU:HD21	2.20	0.41
1:d:380:THR:H	1:d:383:ASN:HD22	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:391:PHE:N	1:d:391:PHE:CD1	2.88	0.41
1:e:292:ASN:O	1:e:729:LEU:HD21	2.20	0.41
1:g:292:ASN:O	1:g:729:LEU:HD21	2.20	0.41
1:h:224:CYS:O	1:h:224:CYS:SG	2.79	0.41
1:i:349:GLN:HA	1:k:433:GLN:HA	2.02	0.41
1:i:508:THR:HG1	1:i:513:TRP:CD1	2.39	0.41
1:j:274:ASP:OD1	1:j:345:MET:HG3	2.20	0.41
1:m:274:ASP:OD1	1:m:345:MET:HG3	2.20	0.41
1:m:277:ARG:NH2	1:m:279:HIS:CE1	2.88	0.41
1:m:446:THR:O	1:n:493:PRO:HG3	2.21	0.41
1:n:224:CYS:O	1:n:224:CYS:SG	2.79	0.41
1:n:474:GLY:HA3	1:n:604:TRP:HB3	2.01	0.41
1:o:224:CYS:SG	1:o:224:CYS:O	2.79	0.41
1:o:234:THR:HG21	1:o:679:GLN:HE21	1.85	0.41
1:p:234:THR:HG21	1:p:679:GLN:HE21	1.86	0.41
1:q:224:CYS:O	1:q:224:CYS:SG	2.79	0.41
1:q:345:MET:HE3	1:q:616:TRP:HZ2	1.84	0.41
1:q:391:PHE:N	1:q:391:PHE:CD1	2.89	0.41
1:q:433:GLN:HA	1:r:349:GLN:HA	2.02	0.41
1:r:445:GLU:OE1	1:r:445:GLU:N	2.47	0.41
1:s:224:CYS:O	1:s:224:CYS:SG	2.79	0.41
1:s:345:MET:HE3	1:s:616:TRP:HZ2	1.84	0.41
1:u:224:CYS:O	1:u:224:CYS:SG	2.79	0.41
1:x:224:CYS:O	1:x:224:CYS:SG	2.79	0.41
1:z:391:PHE:N	1:z:391:PHE:CD1	2.88	0.41
1:1:427:MET:SD	1:1:464:PHE:CD1	3.12	0.41
1:1:446:THR:O	1:2:493:PRO:HG3	2.21	0.41
1:3:491:LYS:HB2	1:4:448:ASN:HA	2.02	0.41
1:4:234:THR:HG21	1:4:679:GLN:HE21	1.85	0.41
1:7:224:CYS:O	1:7:224:CYS:SG	2.79	0.41
1:B:427:MET:SD	1:B:464:PHE:CD1	3.12	0.41
1:B:431:LEU:O	1:B:461:SER:HB3	2.20	0.41
1:B:448:ASN:HA	1:J:491:LYS:HB2	2.02	0.41
1:C:458:LYS:NZ	1:b:350:GLU:OE2	2.44	0.41
1:D:234:THR:HG21	1:D:679:GLN:HE21	1.85	0.41
1:D:277:ARG:NH2	1:D:279:HIS:CE1	2.88	0.41
1:D:332:GLN:HA	1:D:394:GLN:O	2.21	0.41
1:D:350:GLU:OE2	1:P:458:LYS:NZ	2.44	0.41
1:F:224:CYS:O	1:F:224:CYS:SG	2.79	0.41
1:F:493:PRO:HG3	1:Q:446:THR:O	2.21	0.41
1:G:277:ARG:NH2	1:G:279:HIS:CE1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:560:GLU:O	1:G:562:GLU:N	2.54	0.41
1:H:445:GLU:OE1	1:H:445:GLU:N	2.47	0.41
1:I:224:CYS:SG	1:I:224:CYS:O	2.79	0.41
1:J:224:CYS:O	1:J:224:CYS:SG	2.79	0.41
1:J:605:GLN:HA	1:L:623:ASP:HB2	2.02	0.41
1:K:274:ASP:OD1	1:K:345:MET:HG3	2.20	0.41
1:K:448:ASN:HA	1:a:491:LYS:HB2	2.02	0.41
1:Q:432:ASP:OD1	1:Q:461:SER:N	2.40	0.41
1:Q:484:LYS:HE2	1:Q:557:PHE:HE2	1.82	0.41
1:R:391:PHE:N	1:R:391:PHE:CD1	2.89	0.41
1:T:224:CYS:SG	1:T:224:CYS:O	2.79	0.41
1:T:274:ASP:OD1	1:T:345:MET:HG3	2.20	0.41
1:T:292:ASN:O	1:T:729:LEU:HD21	2.20	0.41
1:T:356:PHE:HA	1:T:357:PRO:HD3	1.95	0.41
1:T:605:GLN:HA	1:d:623:ASP:HB2	2.02	0.41
1:U:234:THR:HG21	1:U:679:GLN:HE21	1.85	0.41
1:U:268:THR:OG1	1:U:366:TYR:O	2.24	0.41
1:X:491:LYS:HE2	1:e:452:ALA:HB2	2.02	0.41
1:Y:560:GLU:O	1:Y:562:GLU:N	2.54	0.41
1:Z:224:CYS:O	1:Z:224:CYS:SG	2.79	0.41
1:a:560:GLU:O	1:a:562:GLU:N	2.54	0.41
1:b:277:ARG:NH2	1:b:279:HIS:CE1	2.88	0.41
1:c:332:GLN:HA	1:c:394:GLN:O	2.21	0.41
1:c:577:ILE:HA	1:o:505:THR:HG22	2.02	0.41
1:d:224:CYS:SG	1:d:224:CYS:O	2.79	0.41
1:d:474:GLY:HA3	1:d:604:TRP:HB3	2.02	0.41
1:e:332:GLN:HA	1:e:394:GLN:O	2.21	0.41
1:f:277:ARG:NH2	1:f:279:HIS:CE1	2.88	0.41
1:i:391:PHE:CD1	1:i:391:PHE:N	2.88	0.41
1:j:474:GLY:HA3	1:j:604:TRP:HB3	2.02	0.41
1:k:277:ARG:NH2	1:k:279:HIS:CE1	2.88	0.41
1:l:345:MET:HE3	1:l:616:TRP:HZ2	1.85	0.41
1:m:224:CYS:SG	1:m:224:CYS:O	2.79	0.41
1:m:433:GLN:HA	1:n:349:GLN:HA	2.01	0.41
1:n:380:THR:H	1:n:383:ASN:HD22	1.69	0.41
1:n:391:PHE:CD1	1:n:391:PHE:N	2.88	0.41
1:p:432:ASP:OD1	1:p:461:SER:N	2.40	0.41
1:r:224:CYS:O	1:r:224:CYS:SG	2.79	0.41
1:r:425:ARG:HA	1:r:425:ARG:HD3	1.90	0.41
1:t:277:ARG:NH2	1:t:279:HIS:CE1	2.88	0.41
1:t:491:LYS:HE2	1:v:452:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:560:GLU:O	1:t:562:GLU:N	2.54	0.41
1:u:277:ARG:NH2	1:u:279:HIS:CE1	2.88	0.41
1:u:292:ASN:O	1:u:729:LEU:HD21	2.20	0.41
1:u:380:THR:H	1:u:383:ASN:HD22	1.69	0.41
1:v:224:CYS:O	1:v:224:CYS:SG	2.79	0.41
1:x:484:LYS:HE2	1:x:557:PHE:HE2	1.82	0.41
1:1:268:THR:OG1	1:1:366:TYR:O	2.24	0.41
1:3:560:GLU:O	1:3:562:GLU:N	2.54	0.41
1:5:445:GLU:OE1	1:5:445:GLU:N	2.47	0.41
1:6:431:LEU:O	1:6:461:SER:HB3	2.20	0.41
1:7:332:GLN:HA	1:7:394:GLN:O	2.21	0.41
1:7:560:GLU:O	1:7:562:GLU:N	2.54	0.41
1:8:432:ASP:OD1	1:8:461:SER:N	2.41	0.41
1:A:224:CYS:SG	1:A:224:CYS:O	2.79	0.41
1:A:350:GLU:OE2	1:I:458:LYS:NZ	2.44	0.41
1:A:448:ASN:HA	1:G:491:LYS:HB2	2.02	0.41
1:C:350:GLU:OE2	1:M:458:LYS:NZ	2.44	0.41
1:C:452:ALA:HB2	1:b:491:LYS:HE2	2.01	0.41
1:D:491:LYS:HE2	1:P:452:ALA:HB2	2.01	0.41
1:E:232:LYS:HB2	1:E:682:TRP:O	2.20	0.41
1:E:446:THR:O	1:Q:493:PRO:HG3	2.21	0.41
1:G:234:THR:HG21	1:G:679:GLN:HE21	1.85	0.41
1:G:332:GLN:HA	1:G:394:GLN:O	2.21	0.41
1:H:277:ARG:NH2	1:H:279:HIS:CE1	2.88	0.41
1:H:380:THR:H	1:H:383:ASN:HD22	1.69	0.41
1:H:400:ASN:ND2	1:Z:218:ALA:H	2.16	0.41
1:H:493:PRO:HG3	1:Y:446:THR:O	2.21	0.41
1:I:234:THR:HG21	1:I:679:GLN:HE21	1.86	0.41
1:I:277:ARG:NH2	1:I:279:HIS:CE1	2.88	0.41
1:I:332:GLN:HA	1:I:394:GLN:O	2.21	0.41
1:I:380:THR:H	1:I:383:ASN:HD22	1.69	0.41
1:L:274:ASP:OD1	1:L:345:MET:HG3	2.20	0.41
1:M:431:LEU:O	1:M:461:SER:HB3	2.20	0.41
1:N:446:THR:O	1:P:493:PRO:HG3	2.21	0.41
1:O:345:MET:HE3	1:O:616:TRP:HZ2	1.84	0.41
1:P:274:ASP:OD1	1:P:345:MET:HG3	2.20	0.41
1:P:391:PHE:N	1:P:391:PHE:CD1	2.88	0.41
1:R:292:ASN:O	1:R:729:LEU:HD21	2.20	0.41
1:R:332:GLN:HA	1:R:394:GLN:O	2.21	0.41
1:R:345:MET:HE3	1:R:616:TRP:HZ2	1.84	0.41
1:R:433:GLN:HA	1:S:349:GLN:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:224:CYS:O	1:S:224:CYS:SG	2.79	0.41
1:T:433:GLN:HA	1:d:349:GLN:HA	2.02	0.41
1:U:345:MET:HE3	1:U:616:TRP:HZ2	1.84	0.41
1:V:391:PHE:CD1	1:V:391:PHE:N	2.88	0.41
1:V:446:THR:O	1:e:493:PRO:HG3	2.21	0.41
1:W:332:GLN:HA	1:W:394:GLN:O	2.21	0.41
1:X:232:LYS:HB2	1:X:682:TRP:O	2.20	0.41
1:a:391:PHE:N	1:a:391:PHE:CD1	2.88	0.41
1:b:292:ASN:O	1:b:729:LEU:HD21	2.20	0.41
1:b:391:PHE:CD1	1:b:391:PHE:N	2.88	0.41
1:c:380:THR:H	1:c:383:ASN:HD22	1.69	0.41
1:c:391:PHE:CD1	1:c:391:PHE:N	2.88	0.41
1:c:452:ALA:HB2	1:o:491:LYS:HE2	2.02	0.41
1:c:493:PRO:HG3	1:p:446:THR:O	2.21	0.41
1:c:560:GLU:O	1:c:562:GLU:N	2.54	0.41
1:d:433:GLN:HA	1:l:349:GLN:HA	2.01	0.41
1:e:560:GLU:O	1:e:562:GLU:N	2.54	0.41
1:f:350:GLU:OE2	1:g:458:LYS:NZ	2.44	0.41
1:f:391:PHE:CD1	1:f:391:PHE:N	2.88	0.41
1:f:491:LYS:HE2	1:g:452:ALA:HB2	2.01	0.41
1:h:508:THR:HG1	1:h:513:TRP:CD1	2.39	0.41
1:j:391:PHE:N	1:j:391:PHE:CD1	2.88	0.41
1:j:446:THR:O	1:k:493:PRO:HG3	2.21	0.41
1:k:332:GLN:HA	1:k:394:GLN:O	2.21	0.41
1:p:391:PHE:CD1	1:p:391:PHE:N	2.88	0.41
1:r:605:GLN:HA	1:s:623:ASP:HB2	2.02	0.41
1:s:234:THR:HG21	1:s:679:GLN:HE21	1.85	0.41
1:u:274:ASP:OD1	1:u:345:MET:HG3	2.20	0.41
1:u:332:GLN:HA	1:u:394:GLN:O	2.21	0.41
1:v:431:LEU:O	1:v:461:SER:HB3	2.20	0.41
1:w:232:LYS:HB2	1:w:682:TRP:O	2.20	0.41
1:w:446:THR:O	1:x:493:PRO:HG3	2.21	0.41
1:w:505:THR:HG22	1:y:577:ILE:HA	2.02	0.41
1:w:533:SER:OG	1:w:570:ASP:OD2	2.32	0.41
1:w:577:ILE:HA	1:x:505:THR:HG22	2.02	0.41
1:x:446:THR:O	1:y:493:PRO:HG3	2.21	0.41
1:x:448:ASN:HA	1:y:491:LYS:HB2	2.02	0.41
1:y:224:CYS:O	1:y:224:CYS:SG	2.79	0.41
1:z:274:ASP:OD1	1:z:345:MET:HG3	2.20	0.41
1:z:452:ALA:HB2	1:l:491:LYS:HE2	2.02	0.41
1:z:623:ASP:OD1	1:2:415:SER:OG	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:448:ASN:HA	1:2:491:LYS:HB2	2.02	0.41
1:2:224:CYS:O	1:2:224:CYS:SG	2.79	0.41
1:3:234:THR:HG21	1:3:679:GLN:HE21	1.85	0.41
1:5:234:THR:HG21	1:5:679:GLN:HE21	1.85	0.41
1:5:277:ARG:NH2	1:5:279:HIS:CE1	2.88	0.41
1:5:380:THR:H	1:5:383:ASN:HD22	1.69	0.41
1:6:332:GLN:HA	1:6:394:GLN:O	2.21	0.41
1:8:224:CYS:O	1:8:224:CYS:SG	2.79	0.41
1:8:332:GLN:HA	1:8:394:GLN:O	2.21	0.41
1:A:332:GLN:HA	1:A:394:GLN:O	2.21	0.41
1:A:431:LEU:O	1:A:461:SER:HB3	2.20	0.41
1:B:292:ASN:O	1:B:729:LEU:HD21	2.20	0.41
1:B:380:THR:H	1:B:383:ASN:HD22	1.69	0.41
1:C:508:THR:HG1	1:C:513:TRP:CD1	2.39	0.41
1:D:493:PRO:HG3	1:P:446:THR:O	2.21	0.41
1:E:292:ASN:O	1:E:729:LEU:HD21	2.20	0.41
1:G:538:ILE:HG12	1:G:557:PHE:CD1	2.56	0.41
1:H:234:THR:HG21	1:H:679:GLN:HE21	1.85	0.41
1:I:274:ASP:OD1	1:I:345:MET:HG3	2.20	0.41
1:I:560:GLU:O	1:I:562:GLU:N	2.54	0.41
1:K:268:THR:OG1	1:K:366:TYR:O	2.24	0.41
1:M:623:ASP:HB2	1:b:605:GLN:HA	2.01	0.41
1:N:224:CYS:O	1:N:224:CYS:SG	2.79	0.41
1:N:433:GLN:HA	1:P:349:GLN:HA	2.02	0.41
1:O:349:GLN:HA	1:n:433:GLN:HA	2.01	0.41
1:Q:345:MET:HE3	1:Q:616:TRP:HZ2	1.84	0.41
1:Q:431:LEU:O	1:Q:461:SER:HB3	2.20	0.41
1:R:491:LYS:HE2	1:U:452:ALA:HB2	2.01	0.41
1:R:560:GLU:O	1:R:562:GLU:N	2.54	0.41
1:S:380:THR:H	1:S:383:ASN:HD22	1.69	0.41
1:W:431:LEU:O	1:W:461:SER:HB3	2.20	0.41
1:W:474:GLY:HA3	1:W:604:TRP:HB3	2.01	0.41
1:X:332:GLN:HA	1:X:394:GLN:O	2.21	0.41
1:X:560:GLU:O	1:X:562:GLU:N	2.54	0.41
1:Y:332:GLN:HA	1:Y:394:GLN:O	2.21	0.41
1:Z:332:GLN:HA	1:Z:394:GLN:O	2.21	0.41
1:a:577:ILE:HA	1:8:505:THR:HG22	2.02	0.41
1:b:380:THR:H	1:b:383:ASN:HD22	1.69	0.41
1:d:332:GLN:HA	1:d:394:GLN:O	2.21	0.41
1:d:560:GLU:O	1:d:562:GLU:N	2.54	0.41
1:e:224:CYS:O	1:e:224:CYS:SG	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:380:THR:H	1:e:383:ASN:HD22	1.69	0.41
1:e:391:PHE:CD1	1:e:391:PHE:N	2.88	0.41
1:f:292:ASN:O	1:f:729:LEU:HD21	2.20	0.41
1:f:380:THR:H	1:f:383:ASN:HD22	1.69	0.41
1:f:605:GLN:HA	1:h:623:ASP:HB2	2.01	0.41
1:g:350:GLU:OE2	1:h:458:LYS:NZ	2.44	0.41
1:i:224:CYS:SG	1:i:224:CYS:O	2.79	0.41
1:k:234:THR:HG21	1:k:679:GLN:HE21	1.85	0.41
1:l:391:PHE:N	1:l:391:PHE:CD1	2.88	0.41
1:n:560:GLU:O	1:n:562:GLU:N	2.54	0.41
1:o:232:LYS:HB2	1:o:682:TRP:O	2.20	0.41
1:o:560:GLU:O	1:o:562:GLU:N	2.54	0.41
1:q:292:ASN:O	1:q:729:LEU:HD21	2.20	0.41
1:q:332:GLN:HA	1:q:394:GLN:O	2.21	0.41
1:t:234:THR:HG21	1:t:679:GLN:HE21	1.85	0.41
1:t:332:GLN:HA	1:t:394:GLN:O	2.21	0.41
1:t:538:ILE:HG12	1:t:557:PHE:CD1	2.56	0.41
1:u:234:THR:HG21	1:u:679:GLN:HE21	1.86	0.41
1:u:458:LYS:NZ	1:v:350:GLU:OE2	2.44	0.41
1:u:560:GLU:O	1:u:562:GLU:N	2.54	0.41
1:v:332:GLN:HA	1:v:394:GLN:O	2.21	0.41
1:w:224:CYS:SG	1:w:224:CYS:O	2.79	0.41
1:w:425:ARG:HD3	1:w:425:ARG:HA	1.90	0.41
1:x:277:ARG:NH2	1:x:279:HIS:CE1	2.88	0.41
1:x:345:MET:HE3	1:x:616:TRP:HZ2	1.85	0.41
1:y:414:HIS:HB2	1:y:635:PHE:HE1	1.83	0.41
1:z:623:ASP:HB2	1:2:605:GLN:HA	2.02	0.41
1:1:292:ASN:O	1:1:729:LEU:HD21	2.20	0.41
1:3:380:THR:H	1:3:383:ASN:HD22	1.69	0.41
1:3:391:PHE:N	1:3:391:PHE:CD1	2.88	0.41
1:4:274:ASP:OD1	1:4:345:MET:HG3	2.20	0.41
1:5:605:GLN:HA	1:6:623:ASP:HB2	2.02	0.41
1:6:474:GLY:HA3	1:6:604:TRP:HB3	2.01	0.41
1:A:391:PHE:CD1	1:A:391:PHE:N	2.88	0.41
1:A:432:ASP:OD1	1:A:461:SER:N	2.40	0.41
1:A:505:THR:HG22	1:I:577:ILE:HA	2.02	0.41
1:B:277:ARG:NH2	1:B:279:HIS:CE1	2.88	0.41
1:B:538:ILE:HG12	1:B:557:PHE:CD1	2.56	0.41
1:C:277:ARG:NH2	1:C:279:HIS:CE1	2.88	0.41
1:C:491:LYS:HE2	1:M:452:ALA:HB2	2.01	0.41
1:C:493:PRO:HG3	1:M:446:THR:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:281:HIS:HD2	1:D:615:ILE:HD11	1.86	0.41
1:E:224:CYS:O	1:E:224:CYS:SG	2.79	0.41
1:E:505:THR:HG22	1:F:577:ILE:HA	2.02	0.41
1:E:577:ILE:HA	1:Q:505:THR:HG22	2.02	0.41
1:E:605:GLN:HA	1:Q:623:ASP:HB2	2.02	0.41
1:F:232:LYS:HB2	1:F:682:TRP:O	2.20	0.41
1:F:414:HIS:HB2	1:F:635:PHE:HE1	1.83	0.41
1:F:538:ILE:HG12	1:F:557:PHE:CD1	2.56	0.41
1:F:560:GLU:O	1:F:562:GLU:N	2.54	0.41
1:G:446:THR:O	1:I:493:PRO:HG3	2.21	0.41
1:G:605:GLN:HA	1:I:623:ASP:HB2	2.02	0.41
1:H:538:ILE:HG12	1:H:557:PHE:CD1	2.56	0.41
1:H:605:GLN:HA	1:W:623:ASP:HB2	2.02	0.41
1:J:253:ARG:NH2	1:J:379:GLN:HE22	2.00	0.41
1:J:577:ILE:HA	1:L:505:THR:HG22	2.02	0.41
1:K:332:GLN:HA	1:K:394:GLN:O	2.21	0.41
1:K:391:PHE:N	1:K:391:PHE:CD1	2.89	0.41
1:K:560:GLU:O	1:K:562:GLU:N	2.54	0.41
1:L:234:THR:HG21	1:L:679:GLN:HE21	1.85	0.41
1:M:277:ARG:NH2	1:M:279:HIS:CE1	2.88	0.41
1:N:380:THR:H	1:N:383:ASN:HD22	1.69	0.41
1:N:577:ILE:HA	1:P:505:THR:HG22	2.03	0.41
1:N:708:MET:HE2	1:m:383:ASN:HB3	2.03	0.41
1:O:332:GLN:HA	1:O:394:GLN:O	2.21	0.41
1:O:391:PHE:N	1:O:391:PHE:CD1	2.88	0.41
1:P:538:ILE:HG12	1:P:557:PHE:CD1	2.56	0.41
1:P:560:GLU:O	1:P:562:GLU:N	2.54	0.41
1:Q:277:ARG:NH2	1:Q:279:HIS:CE1	2.88	0.41
1:Q:391:PHE:N	1:Q:391:PHE:CD1	2.88	0.41
1:R:538:ILE:HG12	1:R:557:PHE:CD1	2.56	0.41
1:S:425:ARG:HA	1:S:425:ARG:HD3	1.90	0.41
1:S:446:THR:O	1:U:493:PRO:HG3	2.21	0.41
1:S:538:ILE:HG12	1:S:557:PHE:CD1	2.56	0.41
1:S:605:GLN:HA	1:U:623:ASP:HB2	2.02	0.41
1:T:232:LYS:HB2	1:T:682:TRP:O	2.20	0.41
1:T:383:ASN:HB3	1:i:708:MET:HE2	2.03	0.41
1:U:274:ASP:OD1	1:U:345:MET:HG3	2.20	0.41
1:U:332:GLN:HA	1:U:394:GLN:O	2.21	0.41
1:U:538:ILE:HG12	1:U:557:PHE:CD1	2.56	0.41
1:V:432:ASP:OD1	1:V:461:SER:N	2.40	0.41
1:W:224:CYS:O	1:W:224:CYS:SG	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:234:THR:HG21	1:W:679:GLN:HE21	1.85	0.41
1:W:427:MET:SD	1:W:464:PHE:CD1	3.11	0.41
1:Y:380:THR:H	1:Y:383:ASN:HD22	1.69	0.41
1:Y:391:PHE:N	1:Y:391:PHE:CD1	2.88	0.41
1:Y:425:ARG:HD3	1:Y:425:ARG:HA	1.90	0.41
1:Z:432:ASP:OD1	1:Z:461:SER:N	2.41	0.41
1:Z:446:THR:O	1:4:493:PRO:HG3	2.21	0.41
1:Z:505:THR:HG22	1:3:577:ILE:HA	2.02	0.41
1:a:234:THR:HG21	1:a:679:GLN:HE21	1.85	0.41
1:a:332:GLN:HA	1:a:394:GLN:O	2.21	0.41
1:a:380:THR:H	1:a:383:ASN:HD22	1.69	0.41
1:b:224:CYS:O	1:b:224:CYS:SG	2.79	0.41
1:b:560:GLU:O	1:b:562:GLU:N	2.54	0.41
1:c:224:CYS:O	1:c:224:CYS:SG	2.79	0.41
1:c:274:ASP:OD1	1:c:345:MET:HG3	2.20	0.41
1:d:435:LEU:HA	1:d:435:LEU:HD23	1.91	0.41
1:e:508:THR:HG1	1:e:513:TRP:CD1	2.39	0.41
1:f:224:CYS:O	1:f:224:CYS:SG	2.79	0.41
1:f:560:GLU:O	1:f:562:GLU:N	2.54	0.41
1:g:332:GLN:HA	1:g:394:GLN:O	2.21	0.41
1:g:427:MET:SD	1:g:464:PHE:CD1	3.11	0.41
1:g:493:PRO:HG3	1:h:446:THR:O	2.21	0.41
1:g:508:THR:HG1	1:g:513:TRP:CD1	2.39	0.41
1:h:277:ARG:NH2	1:h:279:HIS:CE1	2.88	0.41
1:h:431:LEU:O	1:h:461:SER:HB3	2.20	0.41
1:i:380:THR:H	1:i:383:ASN:HD22	1.69	0.41
1:j:577:ILE:HA	1:k:505:THR:HG22	2.03	0.41
1:k:508:THR:HG1	1:k:513:TRP:CD1	2.39	0.41
1:m:232:LYS:HB2	1:m:682:TRP:O	2.20	0.41
1:m:281:HIS:HD2	1:m:615:ILE:HD11	1.86	0.41
1:m:356:PHE:HA	1:m:357:PRO:HD3	1.95	0.41
1:m:605:GLN:HA	1:n:623:ASP:HB2	2.02	0.41
1:n:274:ASP:OD1	1:n:345:MET:HG3	2.20	0.41
1:n:332:GLN:HA	1:n:394:GLN:O	2.21	0.41
1:o:332:GLN:HA	1:o:394:GLN:O	2.21	0.41
1:o:380:THR:H	1:o:383:ASN:HD22	1.69	0.41
1:o:391:PHE:N	1:o:391:PHE:CD1	2.88	0.41
1:o:538:ILE:HG12	1:o:557:PHE:CD1	2.56	0.41
1:q:491:LYS:HE2	1:s:452:ALA:HB2	2.01	0.41
1:q:560:GLU:O	1:q:562:GLU:N	2.54	0.41
1:r:380:THR:H	1:r:383:ASN:HD22	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:446:THR:O	1:s:493:PRO:HG3	2.21	0.41
1:r:538:ILE:HG12	1:r:557:PHE:CD1	2.56	0.41
1:s:538:ILE:HG12	1:s:557:PHE:CD1	2.56	0.41
1:t:446:THR:O	1:u:493:PRO:HG3	2.21	0.41
1:t:605:GLN:HA	1:u:623:ASP:HB2	2.02	0.41
1:u:448:ASN:HA	1:v:491:LYS:HB2	2.02	0.41
1:w:277:ARG:NH2	1:w:279:HIS:CE1	2.88	0.41
1:w:292:ASN:O	1:w:729:LEU:HD21	2.20	0.41
1:w:508:THR:HG1	1:w:513:TRP:CD1	2.39	0.41
1:w:605:GLN:HA	1:x:623:ASP:HB2	2.02	0.41
1:x:431:LEU:O	1:x:461:SER:HB3	2.20	0.41
1:y:232:LYS:HB2	1:y:682:TRP:O	2.20	0.41
1:y:538:ILE:HG12	1:y:557:PHE:CD1	2.56	0.41
1:y:560:GLU:O	1:y:562:GLU:N	2.54	0.41
1:z:345:MET:HE3	1:z:616:TRP:HZ2	1.84	0.41
1:z:356:PHE:HA	1:z:357:PRO:HD3	1.95	0.41
1:z:484:LYS:HE2	1:z:557:PHE:HE2	1.82	0.41
1:1:380:THR:H	1:1:383:ASN:HD22	1.69	0.41
1:3:332:GLN:HA	1:3:394:GLN:O	2.21	0.41
1:4:332:GLN:HA	1:4:394:GLN:O	2.21	0.41
1:4:391:PHE:N	1:4:391:PHE:CD1	2.89	0.41
1:4:560:GLU:O	1:4:562:GLU:N	2.54	0.41
1:5:493:PRO:HG3	1:7:446:THR:O	2.21	0.41
1:5:538:ILE:HG12	1:5:557:PHE:CD1	2.56	0.41
1:6:224:CYS:SG	1:6:224:CYS:O	2.79	0.41
1:6:234:THR:HG21	1:6:679:GLN:HE21	1.85	0.41
1:7:274:ASP:OD1	1:7:345:MET:HG3	2.20	0.41
1:7:277:ARG:NH2	1:7:279:HIS:CE1	2.88	0.41
1:7:380:THR:H	1:7:383:ASN:HD22	1.69	0.41
1:7:391:PHE:N	1:7:391:PHE:CD1	2.88	0.41
1:A:508:THR:HG1	1:A:513:TRP:CD1	2.39	0.41
1:C:332:GLN:HA	1:C:394:GLN:O	2.21	0.41
1:D:232:LYS:HB2	1:D:682:TRP:O	2.20	0.41
1:D:508:THR:HG1	1:D:513:TRP:CD1	2.39	0.41
1:D:538:ILE:HG12	1:D:557:PHE:CD1	2.56	0.41
1:E:277:ARG:NH2	1:E:279:HIS:CE1	2.88	0.41
1:G:281:HIS:HD2	1:G:615:ILE:HD11	1.87	0.41
1:G:432:ASP:OD1	1:G:461:SER:N	2.41	0.41
1:H:332:GLN:HA	1:H:394:GLN:O	2.21	0.41
1:K:432:ASP:OD1	1:K:461:SER:N	2.40	0.41
1:K:493:PRO:HG3	1:8:446:THR:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:525:ALA:O	1:L:559:SER:OG	2.18	0.41
1:M:432:ASP:OD1	1:M:461:SER:N	2.40	0.41
1:M:538:ILE:HG12	1:M:557:PHE:CD1	2.56	0.41
1:O:508:THR:HG1	1:O:513:TRP:CD1	2.39	0.41
1:S:391:PHE:CD1	1:S:391:PHE:N	2.89	0.41
1:S:577:ILE:HA	1:U:505:THR:HG22	2.02	0.41
1:T:281:HIS:HD2	1:T:615:ILE:HD11	1.86	0.41
1:T:427:MET:SD	1:T:464:PHE:CD1	3.12	0.41
1:W:277:ARG:NH2	1:W:279:HIS:CE1	2.88	0.41
1:W:281:HIS:HD2	1:W:615:ILE:HD11	1.86	0.41
1:W:538:ILE:HG12	1:W:557:PHE:CD1	2.56	0.41
1:X:218:ALA:H	1:Y:400:ASN:ND2	2.14	0.41
1:X:380:THR:H	1:X:383:ASN:HD22	1.69	0.41
1:X:391:PHE:N	1:X:391:PHE:CD1	2.88	0.41
1:X:538:ILE:HG12	1:X:557:PHE:CD1	2.56	0.41
1:Y:274:ASP:OD1	1:Y:345:MET:HG3	2.20	0.41
1:Y:277:ARG:NH2	1:Y:279:HIS:CE1	2.88	0.41
1:c:281:HIS:HD2	1:c:615:ILE:HD11	1.86	0.41
1:d:274:ASP:OD1	1:d:345:MET:HG3	2.20	0.41
1:d:281:HIS:HD2	1:d:615:ILE:HD11	1.86	0.41
1:d:427:MET:SD	1:d:464:PHE:CD1	3.12	0.41
1:e:281:HIS:HD2	1:e:615:ILE:HD11	1.86	0.41
1:e:525:ALA:O	1:e:559:SER:OG	2.18	0.41
1:g:277:ARG:NH2	1:g:279:HIS:CE1	2.88	0.41
1:h:538:ILE:HG12	1:h:557:PHE:CD1	2.56	0.41
1:j:232:LYS:HB2	1:j:682:TRP:O	2.20	0.41
1:j:538:ILE:HG12	1:j:557:PHE:CD1	2.56	0.41
1:j:560:GLU:O	1:j:562:GLU:N	2.54	0.41
1:j:596:MET:HE1	1:k:595:ALA:HB1	2.03	0.41
1:k:281:HIS:HD2	1:k:615:ILE:HD11	1.87	0.41
1:k:538:ILE:HG12	1:k:557:PHE:CD1	2.56	0.41
1:l:332:GLN:HA	1:l:394:GLN:O	2.21	0.41
1:l:508:THR:HG1	1:l:513:TRP:CD1	2.39	0.41
1:l:538:ILE:HG12	1:l:557:PHE:CD1	2.56	0.41
1:m:427:MET:SD	1:m:464:PHE:CD1	3.12	0.41
1:n:281:HIS:HD2	1:n:615:ILE:HD11	1.86	0.41
1:n:427:MET:SD	1:n:464:PHE:CD1	3.12	0.41
1:n:435:LEU:HA	1:n:435:LEU:HD23	1.91	0.41
1:q:538:ILE:HG12	1:q:557:PHE:CD1	2.56	0.41
1:s:332:GLN:HA	1:s:394:GLN:O	2.21	0.41
1:t:281:HIS:HD2	1:t:615:ILE:HD11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:538:ILE:HG12	1:w:557:PHE:CD1	2.56	0.41
1:w:560:GLU:O	1:w:562:GLU:N	2.54	0.41
1:x:391:PHE:N	1:x:391:PHE:CD1	2.88	0.41
1:y:332:GLN:HA	1:y:394:GLN:O	2.21	0.41
1:z:234:THR:HG21	1:z:679:GLN:HE21	1.85	0.41
1:z:276:ASN:OD1	1:z:615:ILE:N	2.46	0.41
1:z:505:THR:HG22	1:2:577:ILE:HA	2.02	0.41
1:1:538:ILE:HG12	1:1:557:PHE:CD1	2.56	0.41
1:1:577:ILE:HA	1:2:505:THR:HG22	2.02	0.41
1:4:538:ILE:HG12	1:4:557:PHE:CD1	2.56	0.41
1:6:277:ARG:NH2	1:6:279:HIS:CE1	2.88	0.41
1:6:427:MET:SD	1:6:464:PHE:CD1	3.11	0.41
1:6:538:ILE:HG12	1:6:557:PHE:CD1	2.56	0.41
1:7:425:ARG:HD3	1:7:425:ARG:HA	1.90	0.41
1:A:288:GLN:NE2	1:A:698:PHE:O	2.47	0.40
1:C:224:CYS:O	1:C:224:CYS:SG	2.79	0.40
1:C:281:HIS:HD2	1:C:615:ILE:HD11	1.87	0.40
1:E:281:HIS:HD2	1:E:615:ILE:HD11	1.86	0.40
1:E:560:GLU:O	1:E:562:GLU:N	2.54	0.40
1:F:332:GLN:HA	1:F:394:GLN:O	2.21	0.40
1:G:224:CYS:O	1:G:224:CYS:SG	2.79	0.40
1:G:425:ARG:HA	1:G:425:ARG:HD3	1.90	0.40
1:H:560:GLU:O	1:H:562:GLU:N	2.54	0.40
1:J:332:GLN:HA	1:J:394:GLN:O	2.21	0.40
1:K:538:ILE:HG12	1:K:557:PHE:CD1	2.56	0.40
1:L:345:MET:HE3	1:L:616:TRP:HZ2	1.84	0.40
1:O:538:ILE:HG12	1:O:557:PHE:CD1	2.56	0.40
1:P:232:LYS:HB2	1:P:682:TRP:O	2.20	0.40
1:Q:332:GLN:HA	1:Q:394:GLN:O	2.21	0.40
1:R:446:THR:O	1:S:493:PRO:HG3	2.21	0.40
1:S:277:ARG:NH2	1:S:279:HIS:CE1	2.88	0.40
1:U:281:HIS:HD2	1:U:615:ILE:HD11	1.87	0.40
1:V:484:LYS:HE2	1:V:557:PHE:HE2	1.82	0.40
1:V:493:PRO:HG3	1:X:446:THR:O	2.21	0.40
1:X:508:THR:HG1	1:X:513:TRP:CD1	2.39	0.40
1:b:538:ILE:HG12	1:b:557:PHE:CD1	2.56	0.40
1:c:446:THR:O	1:o:493:PRO:HG3	2.20	0.40
1:d:425:ARG:HD3	1:d:425:ARG:HA	1.90	0.40
1:e:274:ASP:OD1	1:e:345:MET:HG3	2.20	0.40
1:g:218:ALA:H	1:1:400:ASN:ND2	2.16	0.40
1:g:224:CYS:SG	1:g:224:CYS:O	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:234:THR:HG21	1:g:679:GLN:HE21	1.86	0.40
1:g:281:HIS:HD2	1:g:615:ILE:HD11	1.87	0.40
1:g:491:LYS:HE2	1:h:452:ALA:HB2	2.01	0.40
1:h:432:ASP:OD1	1:h:461:SER:N	2.40	0.40
1:k:232:LYS:HB2	1:k:682:TRP:O	2.20	0.40
1:k:268:THR:OG1	1:k:366:TYR:O	2.24	0.40
1:m:508:THR:HG1	1:m:513:TRP:CD1	2.39	0.40
1:n:432:ASP:OD1	1:n:461:SER:N	2.40	0.40
1:q:446:THR:O	1:r:493:PRO:HG3	2.21	0.40
1:s:268:THR:OG1	1:s:366:TYR:O	2.24	0.40
1:s:274:ASP:OD1	1:s:345:MET:HG3	2.20	0.40
1:s:281:HIS:HD2	1:s:615:ILE:HD11	1.87	0.40
1:s:391:PHE:CD1	1:s:391:PHE:N	2.88	0.40
1:u:577:ILE:HA	1:v:505:THR:HG22	2.02	0.40
1:v:391:PHE:CD1	1:v:391:PHE:N	2.89	0.40
1:v:538:ILE:HG12	1:v:557:PHE:CD1	2.56	0.40
1:w:281:HIS:HD2	1:w:615:ILE:HD11	1.86	0.40
1:w:332:GLN:HA	1:w:394:GLN:O	2.21	0.40
1:x:427:MET:SD	1:x:464:PHE:CD1	3.12	0.40
1:x:432:ASP:OD1	1:x:461:SER:N	2.40	0.40
1:y:432:ASP:OD1	1:y:461:SER:N	2.40	0.40
1:y:445:GLU:OE1	1:y:445:GLU:N	2.47	0.40
1:z:524:THR:HG1	1:z:560:GLU:H	1.64	0.40
1:2:332:GLN:HA	1:2:394:GLN:O	2.21	0.40
1:3:493:PRO:HG3	1:4:446:THR:O	2.21	0.40
1:4:432:ASP:OD1	1:4:461:SER:N	2.40	0.40
1:5:332:GLN:HA	1:5:394:GLN:O	2.21	0.40
1:6:281:HIS:HD2	1:6:615:ILE:HD11	1.86	0.40
1:7:508:THR:HG1	1:7:513:TRP:CD1	2.39	0.40
1:A:538:ILE:HG12	1:A:557:PHE:CD1	2.56	0.40
1:B:577:ILE:HA	1:J:505:THR:HG22	2.02	0.40
1:C:538:ILE:HG12	1:C:557:PHE:CD1	2.56	0.40
1:E:332:GLN:HA	1:E:394:GLN:O	2.21	0.40
1:E:538:ILE:HG12	1:E:557:PHE:CD1	2.56	0.40
1:F:432:ASP:OD1	1:F:461:SER:N	2.40	0.40
1:J:446:THR:O	1:L:493:PRO:HG3	2.21	0.40
1:K:605:GLN:HA	1:a:623:ASP:HB2	2.02	0.40
1:L:484:LYS:HE2	1:L:557:PHE:HE2	1.82	0.40
1:M:427:MET:SD	1:M:464:PHE:CD1	3.12	0.40
1:N:538:ILE:HG12	1:N:557:PHE:CD1	2.56	0.40
1:P:533:SER:OG	1:P:570:ASP:OD2	2.32	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:538:ILE:HG12	1:Q:557:PHE:CD1	2.56	0.40
1:T:508:THR:HG1	1:T:513:TRP:CD1	2.39	0.40
1:V:538:ILE:HG12	1:V:557:PHE:CD1	2.56	0.40
1:W:391:PHE:CD1	1:W:391:PHE:N	2.88	0.40
1:W:533:SER:OG	1:W:570:ASP:OD2	2.32	0.40
1:X:484:LYS:HE2	1:X:557:PHE:HE2	1.82	0.40
1:X:493:PRO:HG3	1:e:446:THR:O	2.20	0.40
1:Z:448:ASN:HA	1:4:491:LYS:HB2	2.02	0.40
1:Z:508:THR:HG1	1:Z:513:TRP:CD1	2.40	0.40
1:a:508:THR:HG1	1:a:513:TRP:CD1	2.39	0.40
1:b:539:PHE:HD2	1:b:723:VAL:HG21	1.87	0.40
1:c:525:ALA:O	1:c:559:SER:OG	2.18	0.40
1:e:538:ILE:HG12	1:e:557:PHE:CD1	2.56	0.40
1:f:538:ILE:HG12	1:f:557:PHE:CD1	2.56	0.40
1:f:539:PHE:HD2	1:f:723:VAL:HG21	1.87	0.40
1:g:538:ILE:HG12	1:g:557:PHE:CD1	2.56	0.40
1:g:623:ASP:OD1	1:h:415:SER:OG	2.28	0.40
1:h:427:MET:SD	1:h:464:PHE:CD1	3.12	0.40
1:i:427:MET:SD	1:i:464:PHE:CD1	3.11	0.40
1:j:427:MET:SD	1:j:464:PHE:CD1	3.11	0.40
1:k:560:GLU:O	1:k:562:GLU:N	2.54	0.40
1:n:425:ARG:HD3	1:n:425:ARG:HA	1.89	0.40
1:o:446:THR:O	1:p:493:PRO:HG3	2.21	0.40
1:o:484:LYS:HE2	1:o:557:PHE:HE2	1.82	0.40
1:p:484:LYS:HE2	1:p:557:PHE:HE2	1.82	0.40
1:q:432:ASP:OD1	1:q:461:SER:N	2.40	0.40
1:r:277:ARG:NH2	1:r:279:HIS:CE1	2.88	0.40
1:r:560:GLU:O	1:r:562:GLU:N	2.54	0.40
1:r:577:ILE:HA	1:s:505:THR:HG22	2.02	0.40
1:t:224:CYS:O	1:t:224:CYS:SG	2.79	0.40
1:v:432:ASP:OD1	1:v:461:SER:N	2.40	0.40
1:v:508:THR:HG1	1:v:513:TRP:CD1	2.39	0.40
1:x:332:GLN:HA	1:x:394:GLN:O	2.21	0.40
1:x:538:ILE:HG12	1:x:557:PHE:CD1	2.56	0.40
1:z:659:PHE:CD1	1:4:364:PRO:HA	2.57	0.40
1:5:350:GLU:OE2	1:7:458:LYS:NZ	2.45	0.40
1:5:560:GLU:O	1:5:562:GLU:N	2.54	0.40
1:6:560:GLU:O	1:6:562:GLU:N	2.54	0.40
1:B:400:ASN:ND2	1:C:218:ALA:H	2.16	0.40
1:C:234:THR:HG21	1:C:679:GLN:HE21	1.86	0.40
1:C:539:PHE:HD2	1:C:723:VAL:HG21	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:508:THR:HG1	1:F:513:TRP:CD1	2.39	0.40
1:G:380:THR:H	1:G:383:ASN:HD22	1.69	0.40
1:G:539:PHE:HD2	1:G:723:VAL:HG21	1.87	0.40
1:I:508:THR:HG1	1:I:513:TRP:CD1	2.39	0.40
1:J:708:MET:HE2	1:a:383:ASN:HB3	2.04	0.40
1:K:446:THR:O	1:a:493:PRO:HG3	2.21	0.40
1:K:539:PHE:HD2	1:K:723:VAL:HG21	1.87	0.40
1:L:356:PHE:HA	1:L:357:PRO:HD3	1.95	0.40
1:M:281:HIS:HD2	1:M:615:ILE:HD11	1.87	0.40
1:N:596:MET:HE1	1:P:595:ALA:HB1	2.03	0.40
1:O:234:THR:HG21	1:O:679:GLN:HE21	1.85	0.40
1:P:277:ARG:NH2	1:P:279:HIS:CE1	2.88	0.40
1:P:356:PHE:HA	1:P:357:PRO:HD3	1.95	0.40
1:P:427:MET:SD	1:P:464:PHE:CD1	3.12	0.40
1:R:432:ASP:OD1	1:R:461:SER:N	2.40	0.40
1:S:332:GLN:HA	1:S:394:GLN:O	2.21	0.40
1:S:560:GLU:O	1:S:562:GLU:N	2.54	0.40
1:U:391:PHE:CD1	1:U:391:PHE:N	2.88	0.40
1:U:560:GLU:O	1:U:562:GLU:N	2.54	0.40
1:V:332:GLN:HA	1:V:394:GLN:O	2.21	0.40
1:W:560:GLU:O	1:W:562:GLU:N	2.54	0.40
1:b:508:THR:HG1	1:b:513:TRP:CD1	2.39	0.40
1:c:538:ILE:HG12	1:c:557:PHE:CD1	2.56	0.40
1:i:524:THR:HG1	1:i:560:GLU:H	1.64	0.40
1:k:380:THR:H	1:k:383:ASN:HD22	1.69	0.40
1:l:560:GLU:O	1:l:562:GLU:N	2.54	0.40
1:m:380:THR:H	1:m:383:ASN:HD22	1.69	0.40
1:n:431:LEU:O	1:n:461:SER:HB3	2.20	0.40
1:p:538:ILE:HG12	1:p:557:PHE:CD1	2.56	0.40
1:t:380:THR:H	1:t:383:ASN:HD22	1.69	0.40
1:t:539:PHE:HD2	1:t:723:VAL:HG21	1.87	0.40
1:u:446:THR:O	1:v:493:PRO:HG3	2.21	0.40
1:u:508:THR:HG1	1:u:513:TRP:CD1	2.39	0.40
1:u:659:PHE:CD1	1:5:364:PRO:HA	2.57	0.40
1:v:276:ASN:OD1	1:v:615:ILE:N	2.46	0.40
1:x:234:THR:HG21	1:x:679:GLN:HE21	1.85	0.40
1:x:380:THR:H	1:x:383:ASN:HD22	1.69	0.40
1:z:332:GLN:HA	1:z:394:GLN:O	2.21	0.40
1:z:435:LEU:HD23	1:z:435:LEU:HA	1.91	0.40
1:1:224:CYS:O	1:1:224:CYS:SG	2.79	0.40
1:1:277:ARG:NH2	1:1:279:HIS:CE1	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:508:THR:HG1	1:1:513:TRP:CD1	2.39	0.40
1:1:560:GLU:O	1:1:562:GLU:N	2.54	0.40
1:2:281:HIS:HD2	1:2:615:ILE:HD11	1.86	0.40
1:2:708:MET:HE2	1:3:383:ASN:HB3	2.04	0.40
1:4:539:PHE:HD2	1:4:723:VAL:HG21	1.87	0.40
1:6:391:PHE:CD1	1:6:391:PHE:N	2.88	0.40
1:6:433:GLN:HA	1:7:349:GLN:HA	2.01	0.40
1:8:560:GLU:O	1:8:562:GLU:N	2.54	0.40
1:A:435:LEU:HA	1:A:435:LEU:HD23	1.91	0.40
1:B:224:CYS:O	1:B:224:CYS:SG	2.79	0.40
1:B:560:GLU:O	1:B:562:GLU:N	2.54	0.40
1:D:560:GLU:O	1:D:562:GLU:N	2.54	0.40
1:F:505:THR:HG22	1:Q:577:ILE:HA	2.02	0.40
1:F:539:PHE:HD2	1:F:723:VAL:HG21	1.87	0.40
1:H:281:HIS:HD2	1:H:615:ILE:HD11	1.87	0.40
1:H:350:GLU:OE2	1:Y:458:LYS:NZ	2.44	0.40
1:H:364:PRO:HA	1:I:659:PHE:CD1	2.57	0.40
1:I:281:HIS:HD2	1:I:615:ILE:HD11	1.87	0.40
1:J:281:HIS:HD2	1:J:615:ILE:HD11	1.86	0.40
1:K:491:LYS:HB2	1:8:448:ASN:HA	2.02	0.40
1:L:224:CYS:SG	1:L:224:CYS:O	2.79	0.40
1:L:276:ASN:OD1	1:L:615:ILE:N	2.46	0.40
1:L:332:GLN:HA	1:L:394:GLN:O	2.21	0.40
1:L:538:ILE:HG12	1:L:557:PHE:CD1	2.56	0.40
1:L:560:GLU:O	1:L:562:GLU:N	2.54	0.40
1:N:281:HIS:HD2	1:N:615:ILE:HD11	1.86	0.40
1:N:508:THR:HG1	1:N:513:TRP:CD1	2.40	0.40
1:O:539:PHE:HD2	1:O:723:VAL:HG21	1.87	0.40
1:O:560:GLU:O	1:O:562:GLU:N	2.54	0.40
1:P:364:PRO:HA	1:Q:659:PHE:CD1	2.57	0.40
1:R:539:PHE:HD2	1:R:723:VAL:HG21	1.87	0.40
1:T:380:THR:H	1:T:383:ASN:HD22	1.69	0.40
1:U:508:THR:HG1	1:U:513:TRP:CD1	2.39	0.40
1:U:539:PHE:HD2	1:U:723:VAL:HG21	1.87	0.40
1:V:539:PHE:HD2	1:V:723:VAL:HG21	1.87	0.40
1:V:560:GLU:O	1:V:562:GLU:N	2.54	0.40
1:Y:716:GLY:HA2	1:4:251:TYR:O	2.22	0.40
1:Z:383:ASN:HB3	1:a:708:MET:HE2	2.04	0.40
1:Z:560:GLU:O	1:Z:562:GLU:N	2.54	0.40
1:a:281:HIS:HD2	1:a:615:ILE:HD11	1.86	0.40
1:e:364:PRO:HA	1:h:659:PHE:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:281:HIS:HD2	1:f:615:ILE:HD11	1.86	0.40
1:g:380:THR:H	1:g:383:ASN:HD22	1.69	0.40
1:g:539:PHE:HD2	1:g:723:VAL:HG21	1.87	0.40
1:h:281:HIS:HD2	1:h:615:ILE:HD11	1.87	0.40
1:h:560:GLU:O	1:h:562:GLU:N	2.54	0.40
1:i:433:GLN:HA	1:j:349:GLN:HA	2.03	0.40
1:i:538:ILE:HG12	1:i:557:PHE:CD1	2.56	0.40
1:j:448:ASN:HA	1:k:491:LYS:HB2	2.04	0.40
1:j:458:LYS:NZ	1:k:350:GLU:OE2	2.45	0.40
1:l:234:THR:HG21	1:l:679:GLN:HE21	1.85	0.40
1:l:539:PHE:HD2	1:l:723:VAL:HG21	1.87	0.40
1:m:538:ILE:HG12	1:m:557:PHE:CD1	2.56	0.40
1:m:539:PHE:HD2	1:m:723:VAL:HG21	1.87	0.40
1:n:445:GLU:OE1	1:n:445:GLU:N	2.47	0.40
1:o:218:ALA:H	1:7:400:ASN:ND2	2.14	0.40
1:o:376:ASN:HD21	1:o:378:ASN:ND2	2.20	0.40
1:p:332:GLN:HA	1:p:394:GLN:O	2.21	0.40
1:p:539:PHE:HD2	1:p:723:VAL:HG21	1.87	0.40
1:p:560:GLU:O	1:p:562:GLU:N	2.54	0.40
1:q:281:HIS:HD2	1:q:615:ILE:HD11	1.87	0.40
1:q:539:PHE:HD2	1:q:723:VAL:HG21	1.87	0.40
1:r:332:GLN:HA	1:r:394:GLN:O	2.21	0.40
1:s:539:PHE:HD2	1:s:723:VAL:HG21	1.87	0.40
1:s:560:GLU:O	1:s:562:GLU:N	2.54	0.40
1:t:432:ASP:OD1	1:t:461:SER:N	2.41	0.40
1:u:605:GLN:HA	1:v:623:ASP:HB2	2.02	0.40
1:v:539:PHE:HD2	1:v:723:VAL:HG21	1.87	0.40
1:x:577:ILE:HA	1:y:505:THR:HG22	2.02	0.40
1:y:508:THR:HG1	1:y:513:TRP:CD1	2.39	0.40
1:y:539:PHE:HD2	1:y:723:VAL:HG21	1.87	0.40
1:z:224:CYS:SG	1:z:224:CYS:O	2.79	0.40
1:z:538:ILE:HG12	1:z:557:PHE:CD1	2.56	0.40
1:2:253:ARG:NH2	1:2:379:GLN:HE22	2.00	0.40
1:3:281:HIS:HD2	1:3:615:ILE:HD11	1.86	0.40
1:5:281:HIS:HD2	1:5:615:ILE:HD11	1.87	0.40
1:A:382:ARG:HH22	1:I:728:TYR:HA	1.87	0.40
1:A:539:PHE:HD2	1:A:723:VAL:HG21	1.87	0.40
1:A:577:ILE:HA	1:G:505:THR:HG22	2.02	0.40
1:A:659:PHE:CD1	1:B:364:PRO:HA	2.56	0.40
1:D:458:LYS:NZ	1:N:350:GLU:OE2	2.45	0.40
1:F:356:PHE:HA	1:F:357:PRO:HD3	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:708:MET:HE2	1:W:383:ASN:HB3	2.04	0.40
1:J:560:GLU:O	1:J:562:GLU:N	2.54	0.40
1:K:251:TYR:O	1:7:716:GLY:HA2	2.22	0.40
1:L:435:LEU:HD23	1:L:435:LEU:HA	1.91	0.40
1:M:376:ASN:HD21	1:M:378:ASN:ND2	2.20	0.40
1:M:539:PHE:HD2	1:M:723:VAL:HG21	1.87	0.40
1:M:659:PHE:CD1	1:c:364:PRO:HA	2.57	0.40
1:N:427:MET:SD	1:N:464:PHE:CD1	3.11	0.40
1:N:458:LYS:NZ	1:P:350:GLU:OE2	2.45	0.40
1:Q:376:ASN:HD21	1:Q:378:ASN:ND2	2.20	0.40
1:Q:380:THR:H	1:Q:383:ASN:HD22	1.69	0.40
1:Q:427:MET:SD	1:Q:464:PHE:CD1	3.11	0.40
1:Q:539:PHE:HD2	1:Q:723:VAL:HG21	1.87	0.40
1:R:281:HIS:HD2	1:R:615:ILE:HD11	1.87	0.40
1:S:281:HIS:HD2	1:S:615:ILE:HD11	1.86	0.40
1:T:332:GLN:HA	1:T:394:GLN:O	2.21	0.40
1:T:538:ILE:HG12	1:T:557:PHE:CD1	2.56	0.40
1:T:539:PHE:HD2	1:T:723:VAL:HG21	1.87	0.40
1:W:376:ASN:HD21	1:W:378:ASN:ND2	2.20	0.40
1:W:380:THR:H	1:W:383:ASN:HD22	1.69	0.40
1:W:508:THR:HG1	1:W:513:TRP:CD1	2.40	0.40
1:X:376:ASN:HD21	1:X:378:ASN:ND2	2.20	0.40
1:Y:253:ARG:NH2	1:Y:379:GLN:HE22	2.00	0.40
1:Z:659:PHE:CD1	1:a:364:PRO:HA	2.57	0.40
1:a:452:ALA:HB2	1:8:491:LYS:HE2	2.02	0.40
1:a:649:THR:HA	1:a:650:PRO:HD3	1.99	0.40
1:b:281:HIS:HD2	1:b:615:ILE:HD11	1.86	0.40
1:c:376:ASN:HD21	1:c:378:ASN:ND2	2.20	0.40
1:d:431:LEU:O	1:d:461:SER:HB3	2.20	0.40
1:f:427:MET:SD	1:f:464:PHE:CD1	3.12	0.40
1:f:508:THR:HG1	1:f:513:TRP:CD1	2.39	0.40
1:h:376:ASN:HD21	1:h:378:ASN:ND2	2.20	0.40
1:h:539:PHE:HD2	1:h:723:VAL:HG21	1.87	0.40
1:i:268:THR:OG1	1:i:366:TYR:O	2.24	0.40
1:i:281:HIS:HD2	1:i:615:ILE:HD11	1.87	0.40
1:j:277:ARG:NH2	1:j:279:HIS:CE1	2.88	0.40
1:j:524:THR:HG1	1:j:560:GLU:H	1.64	0.40
1:m:332:GLN:HA	1:m:394:GLN:O	2.21	0.40
1:n:376:ASN:HD21	1:n:378:ASN:ND2	2.20	0.40
1:t:708:MET:HE2	1:6:383:ASN:HB3	2.04	0.40
1:u:281:HIS:HD2	1:u:615:ILE:HD11	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:364:PRO:HA	1:w:659:PHE:CD1	2.57	0.40
1:v:695:GLU:OE1	1:y:285:ARG:NE	2.55	0.40
1:z:560:GLU:O	1:z:562:GLU:N	2.54	0.40
1:2:538:ILE:HG12	1:2:557:PHE:CD1	2.56	0.40
1:3:224:CYS:SG	1:3:224:CYS:O	2.79	0.40
1:3:364:PRO:HA	1:8:659:PHE:CD1	2.57	0.40
1:3:708:MET:HE2	1:8:383:ASN:HB3	2.04	0.40
1:6:376:ASN:HD21	1:6:378:ASN:ND2	2.20	0.40
1:6:380:THR:H	1:6:383:ASN:HD22	1.69	0.40
1:6:533:SER:OG	1:6:570:ASP:OD2	2.32	0.40
1:8:508:THR:HG1	1:8:513:TRP:CD1	2.40	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	2	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	3	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	4	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	5	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	6	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	7	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	8	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	A	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	B	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	C	519/521 (100%)	505 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	E	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	F	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	G	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	H	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	I	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	J	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	K	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	L	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	M	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	N	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	O	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	P	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	Q	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	R	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	S	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	T	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	U	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	V	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	W	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	X	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	Y	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	Z	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	a	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	b	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	c	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	d	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	e	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	f	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	g	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	h	519/521 (100%)	505 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	i	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	j	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	k	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	l	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	m	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	n	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	o	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	p	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	q	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	r	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	s	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	t	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	u	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	v	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	w	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	x	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	y	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
1	z	519/521 (100%)	505 (97%)	14 (3%)	0	100	100
All	All	31140/31260 (100%)	30300 (97%)	840 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	2	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	3	448/448 (100%)	445 (99%)	3 (1%)	81	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	4	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	5	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	6	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	7	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	8	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	A	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	B	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	C	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	D	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	E	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	F	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	G	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	H	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	I	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	J	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	K	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	L	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	M	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	N	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	O	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	P	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	Q	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	R	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	S	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	T	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	U	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	V	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	W	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	X	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	Y	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	Z	448/448 (100%)	445 (99%)	3 (1%)	81	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	b	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	c	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	d	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	e	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	f	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	g	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	h	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	i	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	j	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	k	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	l	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	m	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	n	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	o	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	p	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	q	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	r	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	s	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	t	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	u	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	v	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	w	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	x	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	y	448/448 (100%)	445 (99%)	3 (1%)	81	90
1	z	448/448 (100%)	445 (99%)	3 (1%)	81	90
All	All	26880/26880 (100%)	26700 (99%)	180 (1%)	80	90

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

Mol	Chain	Res	Type
1	A	360	VAL
1	A	388	LEU

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Mol	Chain	Res	Type
1	A	724	ILE
1	B	360	VAL
1	B	388	LEU
1	B	724	ILE
1	C	360	VAL
1	C	388	LEU
1	C	724	ILE
1	D	360	VAL
1	D	388	LEU
1	D	724	ILE
1	E	360	VAL
1	E	388	LEU
1	E	724	ILE
1	F	360	VAL
1	F	388	LEU
1	F	724	ILE
1	G	360	VAL
1	G	388	LEU
1	G	724	ILE
1	H	360	VAL
1	H	388	LEU
1	H	724	ILE
1	I	360	VAL
1	I	388	LEU
1	I	724	ILE
1	J	360	VAL
1	J	388	LEU
1	J	724	ILE
1	K	360	VAL
1	K	388	LEU
1	K	724	ILE
1	L	360	VAL
1	L	388	LEU
1	L	724	ILE
1	M	360	VAL
1	M	388	LEU
1	M	724	ILE
1	N	360	VAL
1	N	388	LEU
1	N	724	ILE
1	O	360	VAL
1	O	388	LEU

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Mol	Chain	Res	Type
1	O	724	ILE
1	P	360	VAL
1	P	388	LEU
1	P	724	ILE
1	Q	360	VAL
1	Q	388	LEU
1	Q	724	ILE
1	R	360	VAL
1	R	388	LEU
1	R	724	ILE
1	S	360	VAL
1	S	388	LEU
1	S	724	ILE
1	T	360	VAL
1	T	388	LEU
1	T	724	ILE
1	U	360	VAL
1	U	388	LEU
1	U	724	ILE
1	V	360	VAL
1	V	388	LEU
1	V	724	ILE
1	W	360	VAL
1	W	388	LEU
1	W	724	ILE
1	X	360	VAL
1	X	388	LEU
1	X	724	ILE
1	Y	360	VAL
1	Y	388	LEU
1	Y	724	ILE
1	Z	360	VAL
1	Z	388	LEU
1	Z	724	ILE
1	a	360	VAL
1	a	388	LEU
1	a	724	ILE
1	b	360	VAL
1	b	388	LEU
1	b	724	ILE
1	c	360	VAL
1	c	388	LEU

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Mol	Chain	Res	Type
1	c	724	ILE
1	d	360	VAL
1	d	388	LEU
1	d	724	ILE
1	e	360	VAL
1	e	388	LEU
1	e	724	ILE
1	f	360	VAL
1	f	388	LEU
1	f	724	ILE
1	g	360	VAL
1	g	388	LEU
1	g	724	ILE
1	h	360	VAL
1	h	388	LEU
1	h	724	ILE
1	i	360	VAL
1	i	388	LEU
1	i	724	ILE
1	j	360	VAL
1	j	388	LEU
1	j	724	ILE
1	k	360	VAL
1	k	388	LEU
1	k	724	ILE
1	l	360	VAL
1	l	388	LEU
1	l	724	ILE
1	m	360	VAL
1	m	388	LEU
1	m	724	ILE
1	n	360	VAL
1	n	388	LEU
1	n	724	ILE
1	o	360	VAL
1	o	388	LEU
1	o	724	ILE
1	p	360	VAL
1	p	388	LEU
1	p	724	ILE
1	q	360	VAL
1	q	388	LEU

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Mol	Chain	Res	Type
1	q	724	ILE
1	r	360	VAL
1	r	388	LEU
1	r	724	ILE
1	s	360	VAL
1	s	388	LEU
1	s	724	ILE
1	t	360	VAL
1	t	388	LEU
1	t	724	ILE
1	u	360	VAL
1	u	388	LEU
1	u	724	ILE
1	v	360	VAL
1	v	388	LEU
1	v	724	ILE
1	w	360	VAL
1	w	388	LEU
1	w	724	ILE
1	x	360	VAL
1	x	388	LEU
1	x	724	ILE
1	y	360	VAL
1	y	388	LEU
1	y	724	ILE
1	z	360	VAL
1	z	388	LEU
1	z	724	ILE
1	1	360	VAL
1	1	388	LEU
1	1	724	ILE
1	2	360	VAL
1	2	388	LEU
1	2	724	ILE
1	3	360	VAL
1	3	388	LEU
1	3	724	ILE
1	4	360	VAL
1	4	388	LEU
1	4	724	ILE
1	5	360	VAL
1	5	388	LEU

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Mol	Chain	Res	Type
1	5	724	ILE
1	6	360	VAL
1	6	388	LEU
1	6	724	ILE
1	7	360	VAL
1	7	388	LEU
1	7	724	ILE
1	8	360	VAL
1	8	388	LEU
1	8	724	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1048) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	217	ASN
1	A	248	ASN
1	A	261	ASN
1	A	279	HIS
1	A	281	HIS
1	A	326	ASN
1	A	332	GLN
1	A	377	GLN
1	A	378	ASN
1	A	383	ASN
1	A	400	ASN
1	A	419	HIS
1	A	421	GLN
1	A	470	ASN
1	A	621	HIS
1	A	627	HIS
1	A	643	GLN
1	A	679	GLN
1	B	217	ASN
1	B	248	ASN
1	B	261	ASN
1	B	281	HIS
1	B	326	ASN
1	B	332	GLN
1	B	376	ASN
1	B	377	GLN
1	B	383	ASN
1	B	400	ASN

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Mol	Chain	Res	Type
1	B	419	HIS
1	B	421	GLN
1	B	470	ASN
1	B	511	ASN
1	B	621	HIS
1	B	627	HIS
1	B	643	GLN
1	B	679	GLN
1	C	217	ASN
1	C	248	ASN
1	C	261	ASN
1	C	281	HIS
1	C	326	ASN
1	C	332	GLN
1	C	377	GLN
1	C	378	ASN
1	C	383	ASN
1	C	400	ASN
1	C	419	HIS
1	C	421	GLN
1	C	470	ASN
1	C	511	ASN
1	C	621	HIS
1	C	627	HIS
1	C	643	GLN
1	C	679	GLN
1	D	217	ASN
1	D	261	ASN
1	D	279	HIS
1	D	281	HIS
1	D	326	ASN
1	D	332	GLN
1	D	377	GLN
1	D	378	ASN
1	D	383	ASN
1	D	400	ASN
1	D	419	HIS
1	D	421	GLN
1	D	470	ASN
1	D	511	ASN
1	D	621	HIS
1	D	627	HIS

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Mol	Chain	Res	Type
1	D	643	GLN
1	D	679	GLN
1	E	217	ASN
1	E	248	ASN
1	E	261	ASN
1	E	281	HIS
1	E	326	ASN
1	E	332	GLN
1	E	377	GLN
1	E	378	ASN
1	E	383	ASN
1	E	400	ASN
1	E	419	HIS
1	E	421	GLN
1	E	470	ASN
1	E	621	HIS
1	E	627	HIS
1	E	643	GLN
1	E	679	GLN
1	F	217	ASN
1	F	248	ASN
1	F	261	ASN
1	F	281	HIS
1	F	326	ASN
1	F	332	GLN
1	F	376	ASN
1	F	377	GLN
1	F	383	ASN
1	F	400	ASN
1	F	419	HIS
1	F	421	GLN
1	F	470	ASN
1	F	621	HIS
1	F	627	HIS
1	F	643	GLN
1	F	679	GLN
1	G	217	ASN
1	G	248	ASN
1	G	261	ASN
1	G	281	HIS
1	G	326	ASN
1	G	332	GLN

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Mol	Chain	Res	Type
1	G	376	ASN
1	G	377	GLN
1	G	383	ASN
1	G	400	ASN
1	G	419	HIS
1	G	421	GLN
1	G	470	ASN
1	G	621	HIS
1	G	627	HIS
1	G	643	GLN
1	G	679	GLN
1	H	217	ASN
1	H	248	ASN
1	H	261	ASN
1	H	281	HIS
1	H	326	ASN
1	H	332	GLN
1	H	377	GLN
1	H	378	ASN
1	H	383	ASN
1	H	400	ASN
1	H	419	HIS
1	H	421	GLN
1	H	470	ASN
1	H	621	HIS
1	H	627	HIS
1	H	643	GLN
1	H	679	GLN
1	I	217	ASN
1	I	248	ASN
1	I	261	ASN
1	I	281	HIS
1	I	326	ASN
1	I	332	GLN
1	I	377	GLN
1	I	378	ASN
1	I	383	ASN
1	I	400	ASN
1	I	419	HIS
1	I	421	GLN
1	I	470	ASN
1	I	621	HIS

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Mol	Chain	Res	Type
1	I	627	HIS
1	I	643	GLN
1	I	679	GLN
1	J	217	ASN
1	J	281	HIS
1	J	326	ASN
1	J	332	GLN
1	J	376	ASN
1	J	377	GLN
1	J	383	ASN
1	J	400	ASN
1	J	419	HIS
1	J	421	GLN
1	J	470	ASN
1	J	511	ASN
1	J	621	HIS
1	J	627	HIS
1	J	643	GLN
1	J	679	GLN
1	K	217	ASN
1	K	248	ASN
1	K	261	ASN
1	K	281	HIS
1	K	326	ASN
1	K	332	GLN
1	K	377	GLN
1	K	378	ASN
1	K	379	GLN
1	K	383	ASN
1	K	400	ASN
1	K	419	HIS
1	K	421	GLN
1	K	470	ASN
1	K	511	ASN
1	K	621	HIS
1	K	627	HIS
1	K	643	GLN
1	K	679	GLN
1	L	217	ASN
1	L	248	ASN
1	L	261	ASN
1	L	281	HIS

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Mol	Chain	Res	Type
1	L	326	ASN
1	L	332	GLN
1	L	376	ASN
1	L	377	GLN
1	L	383	ASN
1	L	400	ASN
1	L	419	HIS
1	L	421	GLN
1	L	470	ASN
1	L	621	HIS
1	L	627	HIS
1	L	643	GLN
1	L	679	GLN
1	M	248	ASN
1	M	261	ASN
1	M	279	HIS
1	M	281	HIS
1	M	325	ASN
1	M	326	ASN
1	M	332	GLN
1	M	376	ASN
1	M	377	GLN
1	M	383	ASN
1	M	400	ASN
1	M	419	HIS
1	M	421	GLN
1	M	470	ASN
1	M	621	HIS
1	M	627	HIS
1	M	643	GLN
1	M	679	GLN
1	N	217	ASN
1	N	248	ASN
1	N	261	ASN
1	N	281	HIS
1	N	326	ASN
1	N	332	GLN
1	N	376	ASN
1	N	377	GLN
1	N	383	ASN
1	N	400	ASN
1	N	419	HIS

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Mol	Chain	Res	Type
1	N	421	GLN
1	N	470	ASN
1	N	621	HIS
1	N	627	HIS
1	N	643	GLN
1	N	679	GLN
1	O	217	ASN
1	O	248	ASN
1	O	261	ASN
1	O	281	HIS
1	O	326	ASN
1	O	332	GLN
1	O	376	ASN
1	O	377	GLN
1	O	379	GLN
1	O	383	ASN
1	O	400	ASN
1	O	419	HIS
1	O	421	GLN
1	O	470	ASN
1	O	511	ASN
1	O	621	HIS
1	O	627	HIS
1	O	643	GLN
1	O	679	GLN
1	P	217	ASN
1	P	248	ASN
1	P	261	ASN
1	P	281	HIS
1	P	326	ASN
1	P	332	GLN
1	P	376	ASN
1	P	377	GLN
1	P	383	ASN
1	P	400	ASN
1	P	419	HIS
1	P	421	GLN
1	P	470	ASN
1	P	511	ASN
1	P	621	HIS
1	P	627	HIS
1	P	643	GLN

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Mol	Chain	Res	Type
1	P	679	GLN
1	Q	217	ASN
1	Q	248	ASN
1	Q	261	ASN
1	Q	281	HIS
1	Q	326	ASN
1	Q	332	GLN
1	Q	376	ASN
1	Q	377	GLN
1	Q	383	ASN
1	Q	400	ASN
1	Q	419	HIS
1	Q	421	GLN
1	Q	470	ASN
1	Q	621	HIS
1	Q	627	HIS
1	Q	643	GLN
1	Q	679	GLN
1	R	217	ASN
1	R	248	ASN
1	R	261	ASN
1	R	281	HIS
1	R	326	ASN
1	R	332	GLN
1	R	377	GLN
1	R	378	ASN
1	R	383	ASN
1	R	400	ASN
1	R	419	HIS
1	R	421	GLN
1	R	470	ASN
1	R	511	ASN
1	R	621	HIS
1	R	627	HIS
1	R	643	GLN
1	R	679	GLN
1	S	217	ASN
1	S	248	ASN
1	S	261	ASN
1	S	281	HIS
1	S	326	ASN
1	S	332	GLN

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Mol	Chain	Res	Type
1	S	377	GLN
1	S	378	ASN
1	S	383	ASN
1	S	400	ASN
1	S	419	HIS
1	S	421	GLN
1	S	470	ASN
1	S	621	HIS
1	S	627	HIS
1	S	643	GLN
1	S	679	GLN
1	T	217	ASN
1	T	248	ASN
1	T	261	ASN
1	T	281	HIS
1	T	326	ASN
1	T	332	GLN
1	T	376	ASN
1	T	377	GLN
1	T	383	ASN
1	T	400	ASN
1	T	419	HIS
1	T	421	GLN
1	T	470	ASN
1	T	511	ASN
1	T	621	HIS
1	T	627	HIS
1	T	643	GLN
1	T	679	GLN
1	U	217	ASN
1	U	248	ASN
1	U	261	ASN
1	U	281	HIS
1	U	326	ASN
1	U	332	GLN
1	U	377	GLN
1	U	378	ASN
1	U	383	ASN
1	U	400	ASN
1	U	419	HIS
1	U	421	GLN
1	U	470	ASN

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Mol	Chain	Res	Type
1	U	621	HIS
1	U	627	HIS
1	U	643	GLN
1	U	679	GLN
1	V	217	ASN
1	V	248	ASN
1	V	261	ASN
1	V	281	HIS
1	V	326	ASN
1	V	332	GLN
1	V	376	ASN
1	V	377	GLN
1	V	383	ASN
1	V	400	ASN
1	V	419	HIS
1	V	421	GLN
1	V	470	ASN
1	V	621	HIS
1	V	627	HIS
1	V	643	GLN
1	V	679	GLN
1	W	217	ASN
1	W	248	ASN
1	W	261	ASN
1	W	281	HIS
1	W	326	ASN
1	W	332	GLN
1	W	377	GLN
1	W	378	ASN
1	W	383	ASN
1	W	400	ASN
1	W	419	HIS
1	W	421	GLN
1	W	470	ASN
1	W	621	HIS
1	W	627	HIS
1	W	643	GLN
1	W	679	GLN
1	X	217	ASN
1	X	248	ASN
1	X	261	ASN
1	X	281	HIS

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Mol	Chain	Res	Type
1	X	326	ASN
1	X	332	GLN
1	X	377	GLN
1	X	378	ASN
1	X	383	ASN
1	X	400	ASN
1	X	419	HIS
1	X	421	GLN
1	X	470	ASN
1	X	511	ASN
1	X	621	HIS
1	X	627	HIS
1	X	643	GLN
1	X	679	GLN
1	Y	217	ASN
1	Y	248	ASN
1	Y	261	ASN
1	Y	281	HIS
1	Y	326	ASN
1	Y	332	GLN
1	Y	376	ASN
1	Y	377	GLN
1	Y	383	ASN
1	Y	400	ASN
1	Y	419	HIS
1	Y	421	GLN
1	Y	470	ASN
1	Y	621	HIS
1	Y	627	HIS
1	Y	643	GLN
1	Y	679	GLN
1	Z	217	ASN
1	Z	248	ASN
1	Z	261	ASN
1	Z	281	HIS
1	Z	326	ASN
1	Z	332	GLN
1	Z	376	ASN
1	Z	377	GLN
1	Z	383	ASN
1	Z	400	ASN
1	Z	419	HIS

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Mol	Chain	Res	Type
1	Z	421	GLN
1	Z	470	ASN
1	Z	621	HIS
1	Z	627	HIS
1	Z	643	GLN
1	Z	679	GLN
1	a	217	ASN
1	a	248	ASN
1	a	261	ASN
1	a	279	HIS
1	a	281	HIS
1	a	326	ASN
1	a	332	GLN
1	a	376	ASN
1	a	377	GLN
1	a	383	ASN
1	a	400	ASN
1	a	419	HIS
1	a	421	GLN
1	a	470	ASN
1	a	511	ASN
1	a	621	HIS
1	a	627	HIS
1	a	643	GLN
1	a	679	GLN
1	b	217	ASN
1	b	248	ASN
1	b	261	ASN
1	b	281	HIS
1	b	326	ASN
1	b	332	GLN
1	b	376	ASN
1	b	377	GLN
1	b	383	ASN
1	b	400	ASN
1	b	419	HIS
1	b	421	GLN
1	b	470	ASN
1	b	621	HIS
1	b	627	HIS
1	b	643	GLN
1	b	679	GLN

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Mol	Chain	Res	Type
1	c	217	ASN
1	c	248	ASN
1	c	261	ASN
1	c	281	HIS
1	c	326	ASN
1	c	332	GLN
1	c	376	ASN
1	c	377	GLN
1	c	383	ASN
1	c	400	ASN
1	c	419	HIS
1	c	421	GLN
1	c	470	ASN
1	c	621	HIS
1	c	627	HIS
1	c	643	GLN
1	c	679	GLN
1	d	217	ASN
1	d	248	ASN
1	d	261	ASN
1	d	281	HIS
1	d	326	ASN
1	d	332	GLN
1	d	376	ASN
1	d	377	GLN
1	d	383	ASN
1	d	400	ASN
1	d	419	HIS
1	d	421	GLN
1	d	470	ASN
1	d	511	ASN
1	d	621	HIS
1	d	627	HIS
1	d	643	GLN
1	d	679	GLN
1	e	217	ASN
1	e	248	ASN
1	e	261	ASN
1	e	281	HIS
1	e	326	ASN
1	e	332	GLN
1	e	376	ASN

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Mol	Chain	Res	Type
1	e	377	GLN
1	e	383	ASN
1	e	400	ASN
1	e	419	HIS
1	e	421	GLN
1	e	470	ASN
1	e	621	HIS
1	e	627	HIS
1	e	643	GLN
1	e	679	GLN
1	f	217	ASN
1	f	248	ASN
1	f	261	ASN
1	f	281	HIS
1	f	326	ASN
1	f	332	GLN
1	f	376	ASN
1	f	377	GLN
1	f	383	ASN
1	f	400	ASN
1	f	419	HIS
1	f	421	GLN
1	f	470	ASN
1	f	621	HIS
1	f	627	HIS
1	f	643	GLN
1	f	679	GLN
1	g	217	ASN
1	g	248	ASN
1	g	261	ASN
1	g	281	HIS
1	g	326	ASN
1	g	332	GLN
1	g	377	GLN
1	g	378	ASN
1	g	383	ASN
1	g	400	ASN
1	g	419	HIS
1	g	421	GLN
1	g	470	ASN
1	g	511	ASN
1	g	621	HIS

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Mol	Chain	Res	Type
1	g	627	HIS
1	g	643	GLN
1	g	679	GLN
1	h	248	ASN
1	h	261	ASN
1	h	281	HIS
1	h	325	ASN
1	h	326	ASN
1	h	332	GLN
1	h	376	ASN
1	h	377	GLN
1	h	383	ASN
1	h	400	ASN
1	h	419	HIS
1	h	421	GLN
1	h	470	ASN
1	h	621	HIS
1	h	627	HIS
1	h	643	GLN
1	h	679	GLN
1	i	217	ASN
1	i	248	ASN
1	i	261	ASN
1	i	281	HIS
1	i	326	ASN
1	i	332	GLN
1	i	376	ASN
1	i	377	GLN
1	i	383	ASN
1	i	400	ASN
1	i	419	HIS
1	i	421	GLN
1	i	470	ASN
1	i	621	HIS
1	i	627	HIS
1	i	643	GLN
1	i	679	GLN
1	j	217	ASN
1	j	248	ASN
1	j	261	ASN
1	j	281	HIS
1	j	326	ASN

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Mol	Chain	Res	Type
1	j	332	GLN
1	j	376	ASN
1	j	377	GLN
1	j	383	ASN
1	j	400	ASN
1	j	419	HIS
1	j	421	GLN
1	j	470	ASN
1	j	511	ASN
1	j	621	HIS
1	j	627	HIS
1	j	643	GLN
1	j	679	GLN
1	k	217	ASN
1	k	248	ASN
1	k	261	ASN
1	k	281	HIS
1	k	326	ASN
1	k	332	GLN
1	k	377	GLN
1	k	378	ASN
1	k	383	ASN
1	k	400	ASN
1	k	419	HIS
1	k	421	GLN
1	k	470	ASN
1	k	511	ASN
1	k	621	HIS
1	k	627	HIS
1	k	643	GLN
1	k	679	GLN
1	l	217	ASN
1	l	248	ASN
1	l	261	ASN
1	l	281	HIS
1	l	326	ASN
1	l	332	GLN
1	l	376	ASN
1	l	377	GLN
1	l	383	ASN
1	l	400	ASN
1	l	419	HIS

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Mol	Chain	Res	Type
1	l	421	GLN
1	l	470	ASN
1	l	511	ASN
1	l	621	HIS
1	l	627	HIS
1	l	643	GLN
1	l	679	GLN
1	m	217	ASN
1	m	248	ASN
1	m	261	ASN
1	m	281	HIS
1	m	326	ASN
1	m	332	GLN
1	m	376	ASN
1	m	377	GLN
1	m	383	ASN
1	m	400	ASN
1	m	419	HIS
1	m	421	GLN
1	m	470	ASN
1	m	511	ASN
1	m	621	HIS
1	m	627	HIS
1	m	643	GLN
1	m	679	GLN
1	n	217	ASN
1	n	248	ASN
1	n	261	ASN
1	n	281	HIS
1	n	326	ASN
1	n	332	GLN
1	n	376	ASN
1	n	377	GLN
1	n	383	ASN
1	n	400	ASN
1	n	419	HIS
1	n	421	GLN
1	n	470	ASN
1	n	511	ASN
1	n	621	HIS
1	n	627	HIS
1	n	643	GLN

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Mol	Chain	Res	Type
1	n	679	GLN
1	o	217	ASN
1	o	248	ASN
1	o	261	ASN
1	o	281	HIS
1	o	326	ASN
1	o	332	GLN
1	o	377	GLN
1	o	378	ASN
1	o	383	ASN
1	o	400	ASN
1	o	419	HIS
1	o	421	GLN
1	o	470	ASN
1	o	511	ASN
1	o	621	HIS
1	o	627	HIS
1	o	643	GLN
1	o	679	GLN
1	p	217	ASN
1	p	248	ASN
1	p	261	ASN
1	p	281	HIS
1	p	326	ASN
1	p	332	GLN
1	p	376	ASN
1	p	377	GLN
1	p	383	ASN
1	p	400	ASN
1	p	419	HIS
1	p	421	GLN
1	p	470	ASN
1	p	621	HIS
1	p	627	HIS
1	p	643	GLN
1	p	679	GLN
1	q	217	ASN
1	q	248	ASN
1	q	261	ASN
1	q	281	HIS
1	q	326	ASN
1	q	332	GLN

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Mol	Chain	Res	Type
1	q	377	GLN
1	q	378	ASN
1	q	383	ASN
1	q	400	ASN
1	q	419	HIS
1	q	421	GLN
1	q	470	ASN
1	q	511	ASN
1	q	621	HIS
1	q	627	HIS
1	q	643	GLN
1	q	679	GLN
1	r	217	ASN
1	r	248	ASN
1	r	261	ASN
1	r	281	HIS
1	r	326	ASN
1	r	332	GLN
1	r	377	GLN
1	r	378	ASN
1	r	383	ASN
1	r	400	ASN
1	r	419	HIS
1	r	421	GLN
1	r	470	ASN
1	r	621	HIS
1	r	627	HIS
1	r	643	GLN
1	r	679	GLN
1	s	217	ASN
1	s	248	ASN
1	s	261	ASN
1	s	281	HIS
1	s	326	ASN
1	s	332	GLN
1	s	377	GLN
1	s	378	ASN
1	s	383	ASN
1	s	400	ASN
1	s	419	HIS
1	s	421	GLN
1	s	470	ASN

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Mol	Chain	Res	Type
1	s	621	HIS
1	s	627	HIS
1	s	643	GLN
1	s	679	GLN
1	t	217	ASN
1	t	248	ASN
1	t	261	ASN
1	t	281	HIS
1	t	326	ASN
1	t	332	GLN
1	t	376	ASN
1	t	377	GLN
1	t	383	ASN
1	t	400	ASN
1	t	419	HIS
1	t	421	GLN
1	t	470	ASN
1	t	621	HIS
1	t	627	HIS
1	t	643	GLN
1	t	679	GLN
1	u	217	ASN
1	u	248	ASN
1	u	261	ASN
1	u	281	HIS
1	u	326	ASN
1	u	332	GLN
1	u	377	GLN
1	u	378	ASN
1	u	383	ASN
1	u	400	ASN
1	u	419	HIS
1	u	421	GLN
1	u	470	ASN
1	u	621	HIS
1	u	627	HIS
1	u	643	GLN
1	u	679	GLN
1	v	217	ASN
1	v	248	ASN
1	v	261	ASN
1	v	279	HIS

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Mol	Chain	Res	Type
1	v	281	HIS
1	v	326	ASN
1	v	332	GLN
1	v	377	GLN
1	v	378	ASN
1	v	383	ASN
1	v	400	ASN
1	v	419	HIS
1	v	421	GLN
1	v	470	ASN
1	v	621	HIS
1	v	627	HIS
1	v	643	GLN
1	v	679	GLN
1	w	217	ASN
1	w	248	ASN
1	w	261	ASN
1	w	281	HIS
1	w	326	ASN
1	w	332	GLN
1	w	377	GLN
1	w	378	ASN
1	w	383	ASN
1	w	400	ASN
1	w	419	HIS
1	w	421	GLN
1	w	470	ASN
1	w	621	HIS
1	w	627	HIS
1	w	643	GLN
1	w	679	GLN
1	x	217	ASN
1	x	248	ASN
1	x	261	ASN
1	x	281	HIS
1	x	326	ASN
1	x	332	GLN
1	x	376	ASN
1	x	377	GLN
1	x	383	ASN
1	x	400	ASN
1	x	419	HIS

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Mol	Chain	Res	Type
1	x	421	GLN
1	x	470	ASN
1	x	621	HIS
1	x	627	HIS
1	x	643	GLN
1	x	679	GLN
1	y	217	ASN
1	y	248	ASN
1	y	261	ASN
1	y	281	HIS
1	y	326	ASN
1	y	332	GLN
1	y	377	GLN
1	y	378	ASN
1	y	383	ASN
1	y	400	ASN
1	y	419	HIS
1	y	421	GLN
1	y	470	ASN
1	y	621	HIS
1	y	627	HIS
1	y	643	GLN
1	y	679	GLN
1	z	217	ASN
1	z	248	ASN
1	z	261	ASN
1	z	281	HIS
1	z	326	ASN
1	z	332	GLN
1	z	376	ASN
1	z	377	GLN
1	z	383	ASN
1	z	400	ASN
1	z	419	HIS
1	z	421	GLN
1	z	470	ASN
1	z	621	HIS
1	z	627	HIS
1	z	643	GLN
1	z	679	GLN
1	1	217	ASN
1	1	248	ASN

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Mol	Chain	Res	Type
1	1	261	ASN
1	1	281	HIS
1	1	326	ASN
1	1	332	GLN
1	1	376	ASN
1	1	377	GLN
1	1	383	ASN
1	1	400	ASN
1	1	419	HIS
1	1	421	GLN
1	1	470	ASN
1	1	511	ASN
1	1	621	HIS
1	1	627	HIS
1	1	643	GLN
1	1	679	GLN
1	2	217	ASN
1	2	261	ASN
1	2	281	HIS
1	2	326	ASN
1	2	332	GLN
1	2	376	ASN
1	2	377	GLN
1	2	383	ASN
1	2	400	ASN
1	2	419	HIS
1	2	421	GLN
1	2	470	ASN
1	2	511	ASN
1	2	621	HIS
1	2	627	HIS
1	2	643	GLN
1	2	679	GLN
1	3	217	ASN
1	3	248	ASN
1	3	261	ASN
1	3	279	HIS
1	3	281	HIS
1	3	326	ASN
1	3	332	GLN
1	3	376	ASN
1	3	377	GLN

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Mol	Chain	Res	Type
1	3	383	ASN
1	3	400	ASN
1	3	419	HIS
1	3	421	GLN
1	3	470	ASN
1	3	621	HIS
1	3	627	HIS
1	3	643	GLN
1	3	679	GLN
1	4	217	ASN
1	4	248	ASN
1	4	261	ASN
1	4	279	HIS
1	4	281	HIS
1	4	326	ASN
1	4	332	GLN
1	4	377	GLN
1	4	378	ASN
1	4	383	ASN
1	4	400	ASN
1	4	419	HIS
1	4	421	GLN
1	4	470	ASN
1	4	511	ASN
1	4	621	HIS
1	4	627	HIS
1	4	643	GLN
1	4	679	GLN
1	5	217	ASN
1	5	248	ASN
1	5	261	ASN
1	5	281	HIS
1	5	326	ASN
1	5	332	GLN
1	5	377	GLN
1	5	378	ASN
1	5	383	ASN
1	5	400	ASN
1	5	419	HIS
1	5	421	GLN
1	5	470	ASN
1	5	621	HIS

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Mol	Chain	Res	Type
1	5	627	HIS
1	5	643	GLN
1	5	679	GLN
1	6	217	ASN
1	6	248	ASN
1	6	261	ASN
1	6	281	HIS
1	6	326	ASN
1	6	332	GLN
1	6	377	GLN
1	6	378	ASN
1	6	383	ASN
1	6	400	ASN
1	6	419	HIS
1	6	421	GLN
1	6	470	ASN
1	6	621	HIS
1	6	627	HIS
1	6	643	GLN
1	6	679	GLN
1	7	217	ASN
1	7	248	ASN
1	7	261	ASN
1	7	281	HIS
1	7	326	ASN
1	7	332	GLN
1	7	376	ASN
1	7	377	GLN
1	7	383	ASN
1	7	400	ASN
1	7	419	HIS
1	7	421	GLN
1	7	470	ASN
1	7	621	HIS
1	7	627	HIS
1	7	643	GLN
1	7	679	GLN
1	8	217	ASN
1	8	248	ASN
1	8	261	ASN
1	8	281	HIS
1	8	326	ASN

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Mol	Chain	Res	Type
1	8	332	GLN
1	8	376	ASN
1	8	377	GLN
1	8	383	ASN
1	8	400	ASN
1	8	419	HIS
1	8	421	GLN
1	8	470	ASN
1	8	621	HIS
1	8	627	HIS
1	8	643	GLN
1	8	679	GLN

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	u	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	D5M	e	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	S	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	C	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	T	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	W	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	A	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	s	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	r	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	6	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	l	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	1	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	i	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	Z	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	7	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	4	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	L	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	v	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	G	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	d	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	g	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	y	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	h	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	F	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	V	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	K	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	8	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	Y	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	o	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	3	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	B	801	-	21,24,24	0.74	0	24,36,36	1.05	2 (8%)
2	D5M	p	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	q	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	m	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	n	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	M	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	D5M	X	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	R	801	-	21,24,24	0.74	0	24,36,36	1.05	2 (8%)
2	D5M	k	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	Q	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	t	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	I	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	O	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	H	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	a	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	j	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	E	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	N	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	P	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	U	801	-	21,24,24	0.75	0	24,36,36	1.05	2 (8%)
2	D5M	b	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	w	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	z	801	-	21,24,24	0.74	0	24,36,36	1.05	2 (8%)
2	D5M	x	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	D	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	2	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)
2	D5M	f	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	5	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	c	801	-	21,24,24	0.74	0	24,36,36	1.04	2 (8%)
2	D5M	J	801	-	21,24,24	0.75	0	24,36,36	1.04	2 (8%)

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	u	801	-	-	2/6/22/22	0/3/3/3
2	D5M	e	801	-	-	2/6/22/22	0/3/3/3
2	D5M	S	801	-	-	2/6/22/22	0/3/3/3
2	D5M	C	801	-	-	2/6/22/22	0/3/3/3
2	D5M	T	801	-	-	2/6/22/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	W	801	-	-	2/6/22/22	0/3/3/3
2	D5M	A	801	-	-	2/6/22/22	0/3/3/3
2	D5M	s	801	-	-	2/6/22/22	0/3/3/3
2	D5M	r	801	-	-	2/6/22/22	0/3/3/3
2	D5M	6	801	-	-	2/6/22/22	0/3/3/3
2	D5M	l	801	-	-	2/6/22/22	0/3/3/3
2	D5M	1	801	-	-	2/6/22/22	0/3/3/3
2	D5M	i	801	-	-	2/6/22/22	0/3/3/3
2	D5M	Z	801	-	-	2/6/22/22	0/3/3/3
2	D5M	7	801	-	-	2/6/22/22	0/3/3/3
2	D5M	4	801	-	-	2/6/22/22	0/3/3/3
2	D5M	L	801	-	-	2/6/22/22	0/3/3/3
2	D5M	v	801	-	-	2/6/22/22	0/3/3/3
2	D5M	G	801	-	-	2/6/22/22	0/3/3/3
2	D5M	d	801	-	-	2/6/22/22	0/3/3/3
2	D5M	g	801	-	-	2/6/22/22	0/3/3/3
2	D5M	y	801	-	-	2/6/22/22	0/3/3/3
2	D5M	h	801	-	-	2/6/22/22	0/3/3/3
2	D5M	F	801	-	-	2/6/22/22	0/3/3/3
2	D5M	V	801	-	-	2/6/22/22	0/3/3/3
2	D5M	K	801	-	-	2/6/22/22	0/3/3/3
2	D5M	8	801	-	-	2/6/22/22	0/3/3/3
2	D5M	Y	801	-	-	2/6/22/22	0/3/3/3
2	D5M	o	801	-	-	2/6/22/22	0/3/3/3
2	D5M	3	801	-	-	2/6/22/22	0/3/3/3
2	D5M	B	801	-	-	2/6/22/22	0/3/3/3
2	D5M	p	801	-	-	2/6/22/22	0/3/3/3
2	D5M	q	801	-	-	2/6/22/22	0/3/3/3
2	D5M	m	801	-	-	2/6/22/22	0/3/3/3
2	D5M	n	801	-	-	2/6/22/22	0/3/3/3
2	D5M	M	801	-	-	2/6/22/22	0/3/3/3
2	D5M	X	801	-	-	2/6/22/22	0/3/3/3
2	D5M	R	801	-	-	2/6/22/22	0/3/3/3
2	D5M	k	801	-	-	2/6/22/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	Q	801	-	-	2/6/22/22	0/3/3/3
2	D5M	t	801	-	-	2/6/22/22	0/3/3/3
2	D5M	I	801	-	-	2/6/22/22	0/3/3/3
2	D5M	O	801	-	-	2/6/22/22	0/3/3/3
2	D5M	H	801	-	-	2/6/22/22	0/3/3/3
2	D5M	a	801	-	-	2/6/22/22	0/3/3/3
2	D5M	j	801	-	-	2/6/22/22	0/3/3/3
2	D5M	E	801	-	-	2/6/22/22	0/3/3/3
2	D5M	N	801	-	-	2/6/22/22	0/3/3/3
2	D5M	P	801	-	-	2/6/22/22	0/3/3/3
2	D5M	U	801	-	-	2/6/22/22	0/3/3/3
2	D5M	b	801	-	-	2/6/22/22	0/3/3/3
2	D5M	w	801	-	-	2/6/22/22	0/3/3/3
2	D5M	z	801	-	-	2/6/22/22	0/3/3/3
2	D5M	x	801	-	-	2/6/22/22	0/3/3/3
2	D5M	D	801	-	-	2/6/22/22	0/3/3/3
2	D5M	2	801	-	-	2/6/22/22	0/3/3/3
2	D5M	f	801	-	-	2/6/22/22	0/3/3/3
2	D5M	5	801	-	-	2/6/22/22	0/3/3/3
2	D5M	c	801	-	-	2/6/22/22	0/3/3/3
2	D5M	J	801	-	-	2/6/22/22	0/3/3/3

There are no bond length outliers.

All (120) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	S	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	r	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	z	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	2	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	k	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	Q	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	u	801	D5M	O2P-P-O1P	2.25	119.61	110.83
2	j	801	D5M	O2P-P-O1P	2.25	119.60	110.83
2	I	801	D5M	O2P-P-O1P	2.25	119.60	110.83
2	G	801	D5M	O2P-P-O1P	2.25	119.60	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	Z	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	l	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	8	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	P	801	D5M	O2P-P-O1P	2.25	119.59	110.83
2	L	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	U	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	s	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	K	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	T	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	m	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	4	801	D5M	O2P-P-O1P	2.25	119.58	110.83
2	B	801	D5M	C5-C6-N6	2.25	123.73	120.31
2	L	801	D5M	C5-C6-N6	2.25	123.73	120.31
2	R	801	D5M	C5-C6-N6	2.25	123.73	120.31
2	U	801	D5M	C5-C6-N6	2.25	123.73	120.31
2	q	801	D5M	C5-C6-N6	2.25	123.73	120.31
2	s	801	D5M	C5-C6-N6	2.25	123.73	120.31
2	l	801	D5M	C5-C6-N6	2.25	123.73	120.31
2	E	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	t	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	A	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	a	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	b	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	c	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	d	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	e	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	f	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	n	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	3	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	Y	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	i	801	D5M	O2P-P-O1P	2.24	119.57	110.83
2	B	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	R	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	q	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	l	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	H	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	5	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	M	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	X	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	h	801	D5M	O2P-P-O1P	2.24	119.56	110.83
2	o	801	D5M	O2P-P-O1P	2.24	119.56	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	W	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	6	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	C	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	V	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	g	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	p	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	x	801	D5M	O2P-P-O1P	2.24	119.55	110.83
2	w	801	D5M	O2P-P-O1P	2.23	119.54	110.83
2	F	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	v	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	y	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	N	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	7	801	D5M	O2P-P-O1P	2.23	119.53	110.83
2	i	801	D5M	C5-C6-N6	2.21	123.69	120.31
2	D	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	W	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	6	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	Y	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	G	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	J	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	S	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	r	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	2	801	D5M	C5-C6-N6	2.21	123.68	120.31
2	z	801	D5M	C5-C6-N6	2.20	123.67	120.31
2	K	801	D5M	C5-C6-N6	2.20	123.67	120.31
2	T	801	D5M	C5-C6-N6	2.20	123.67	120.31
2	m	801	D5M	C5-C6-N6	2.20	123.67	120.31
2	4	801	D5M	C5-C6-N6	2.20	123.67	120.31
2	M	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	X	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	h	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	o	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	I	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	Q	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	u	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	7	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	k	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	x	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	A	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	F	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	a	801	D5M	C5-C6-N6	2.20	123.66	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	b	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	c	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	d	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	e	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	f	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	n	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	v	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	y	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	3	801	D5M	C5-C6-N6	2.20	123.66	120.31
2	N	801	D5M	C5-C6-N6	2.19	123.65	120.31
2	j	801	D5M	C5-C6-N6	2.19	123.65	120.31
2	E	801	D5M	C5-C6-N6	2.19	123.65	120.31
2	O	801	D5M	C5-C6-N6	2.19	123.65	120.31
2	Z	801	D5M	C5-C6-N6	2.19	123.65	120.31
2	l	801	D5M	C5-C6-N6	2.19	123.65	120.31
2	t	801	D5M	C5-C6-N6	2.19	123.65	120.31
2	8	801	D5M	C5-C6-N6	2.19	123.65	120.31
2	C	801	D5M	C5-C6-N6	2.18	123.63	120.31
2	V	801	D5M	C5-C6-N6	2.18	123.63	120.31
2	g	801	D5M	C5-C6-N6	2.18	123.63	120.31
2	p	801	D5M	C5-C6-N6	2.18	123.63	120.31
2	w	801	D5M	C5-C6-N6	2.16	123.61	120.31
2	H	801	D5M	C5-C6-N6	2.16	123.60	120.31
2	P	801	D5M	C5-C6-N6	2.16	123.60	120.31
2	5	801	D5M	C5-C6-N6	2.16	123.60	120.31

There are no chirality outliers.

All (120) 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

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Mol	Chain	Res	Type	Atoms
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
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

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Mol	Chain	Res	Type	Atoms
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
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

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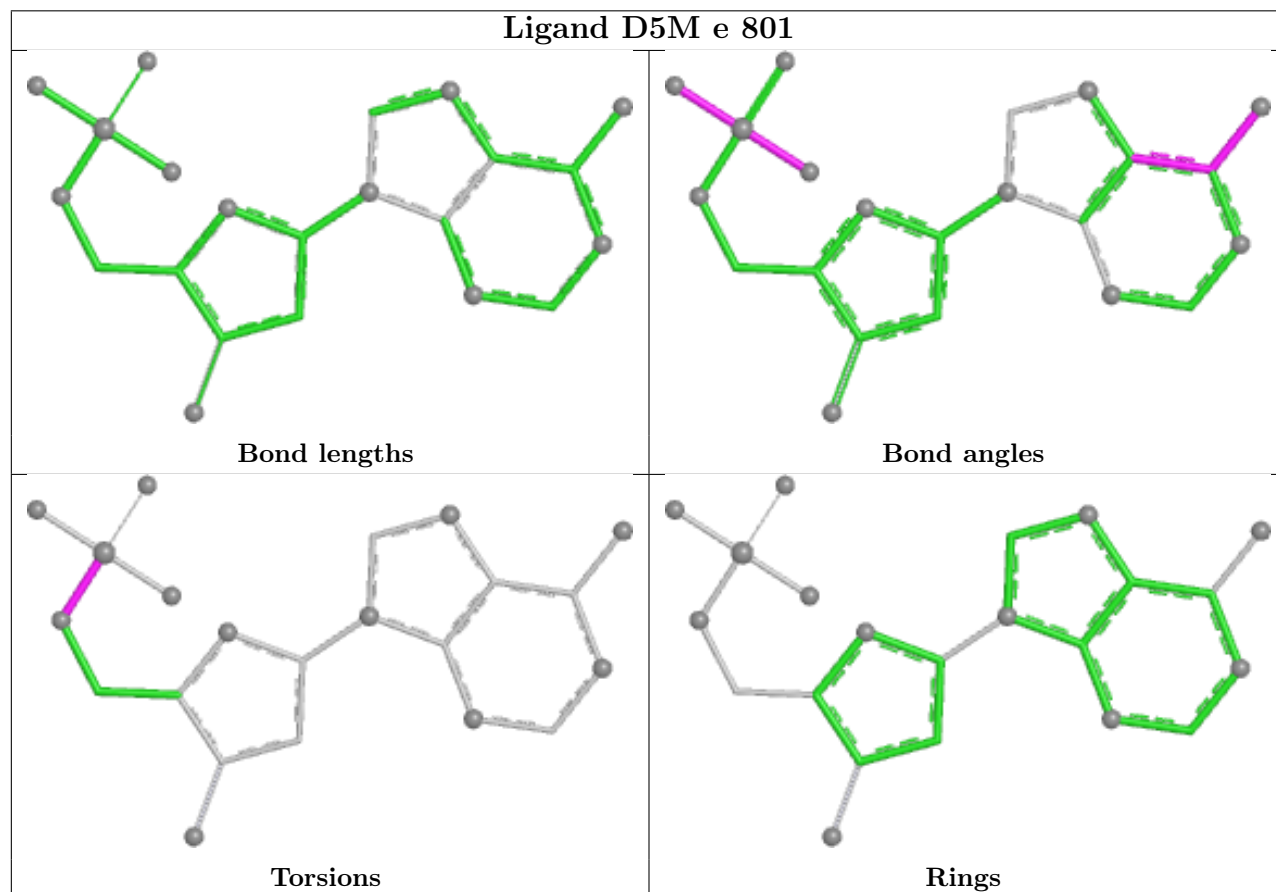
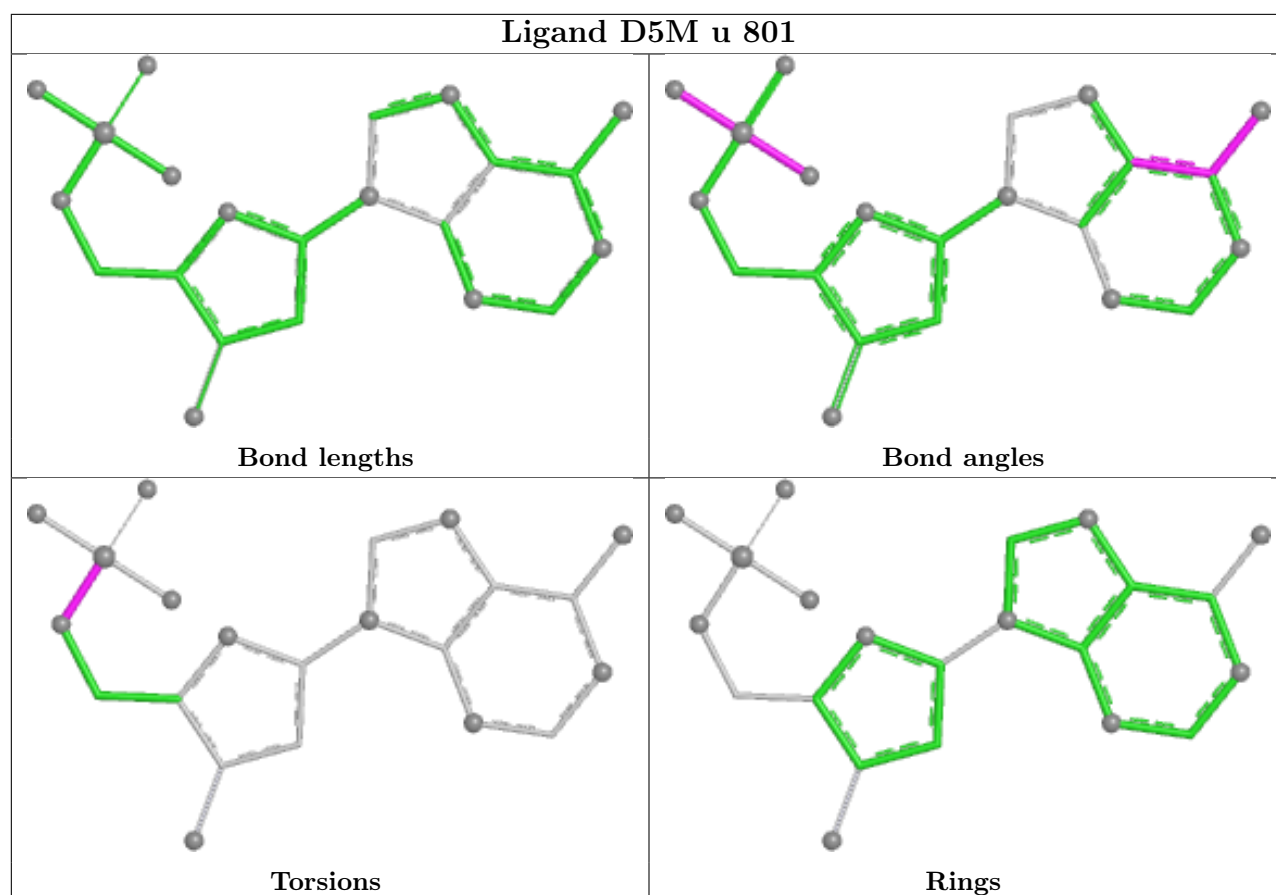
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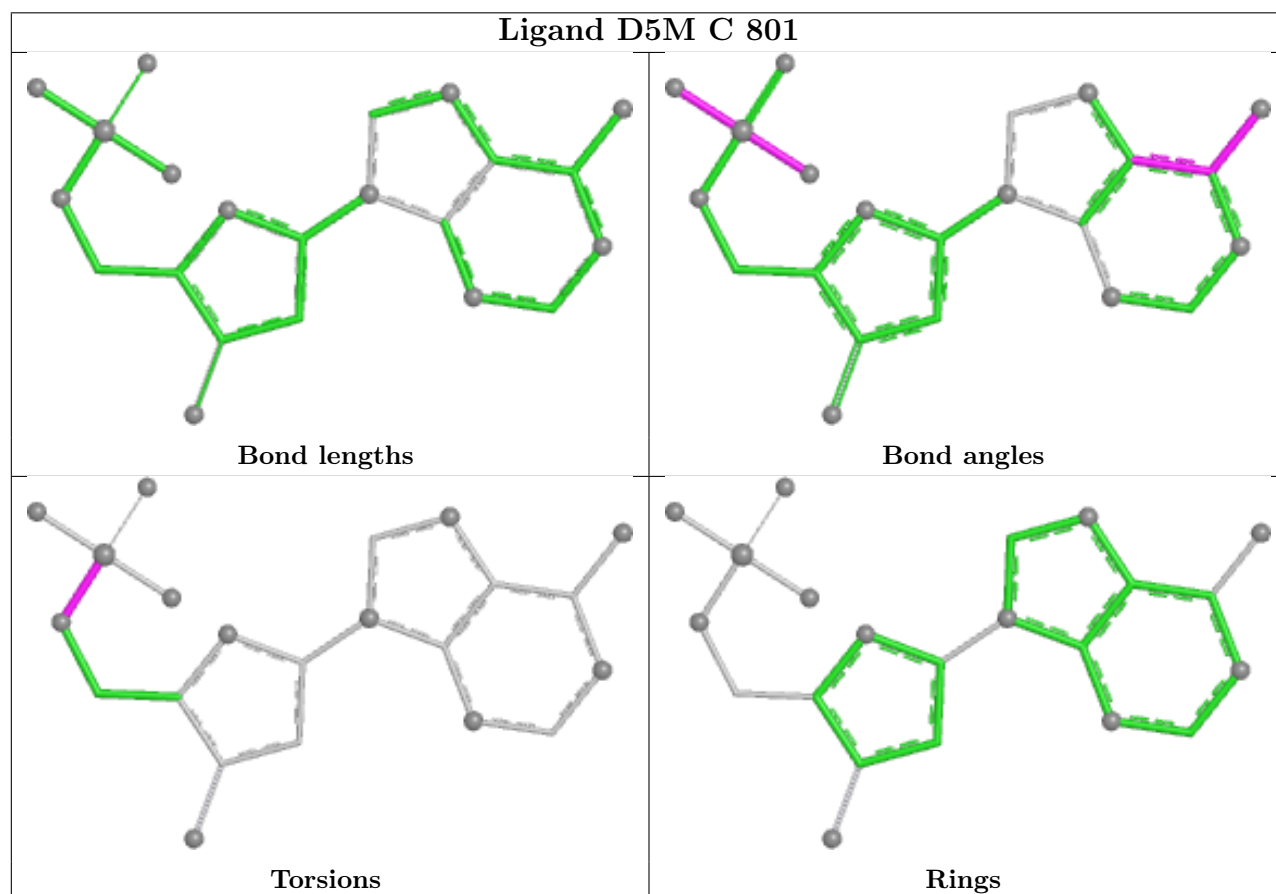
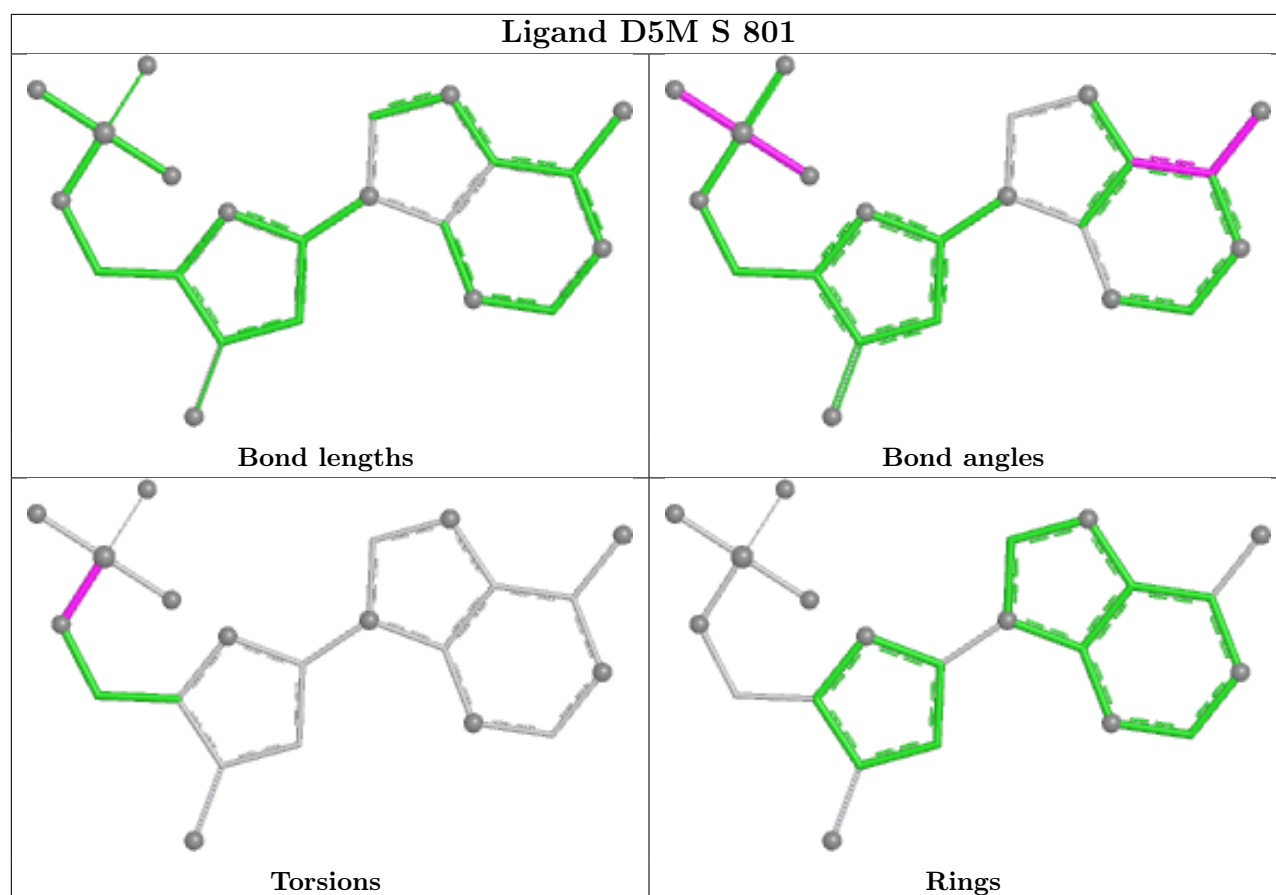
Mol	Chain	Res	Type	Atoms
2	w	801	D5M	C5'-O5'-P-O3P
2	w	801	D5M	C5'-O5'-P-O2P
2	x	801	D5M	C5'-O5'-P-O3P
2	x	801	D5M	C5'-O5'-P-O2P
2	y	801	D5M	C5'-O5'-P-O3P
2	y	801	D5M	C5'-O5'-P-O2P
2	z	801	D5M	C5'-O5'-P-O3P
2	z	801	D5M	C5'-O5'-P-O2P
2	1	801	D5M	C5'-O5'-P-O3P
2	1	801	D5M	C5'-O5'-P-O2P
2	2	801	D5M	C5'-O5'-P-O3P
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

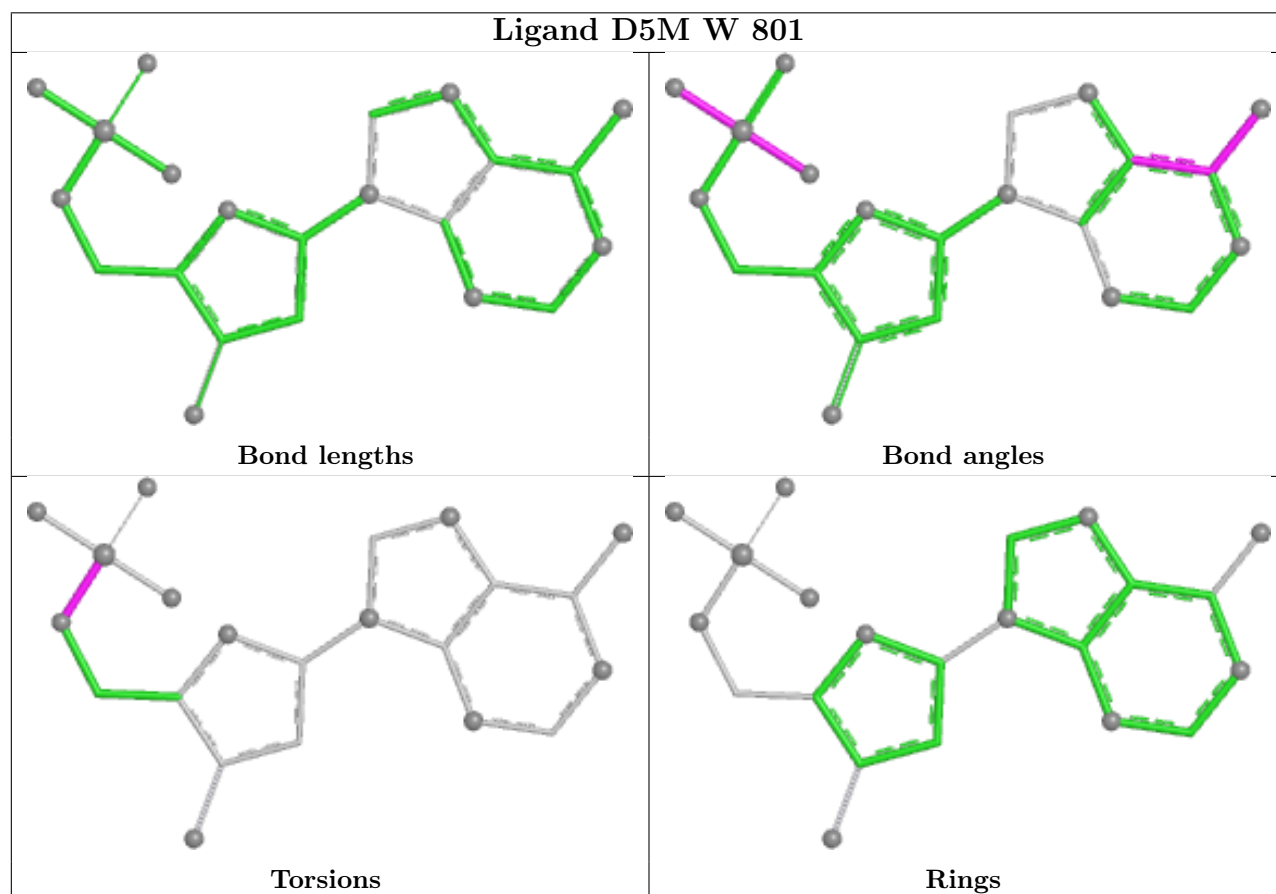
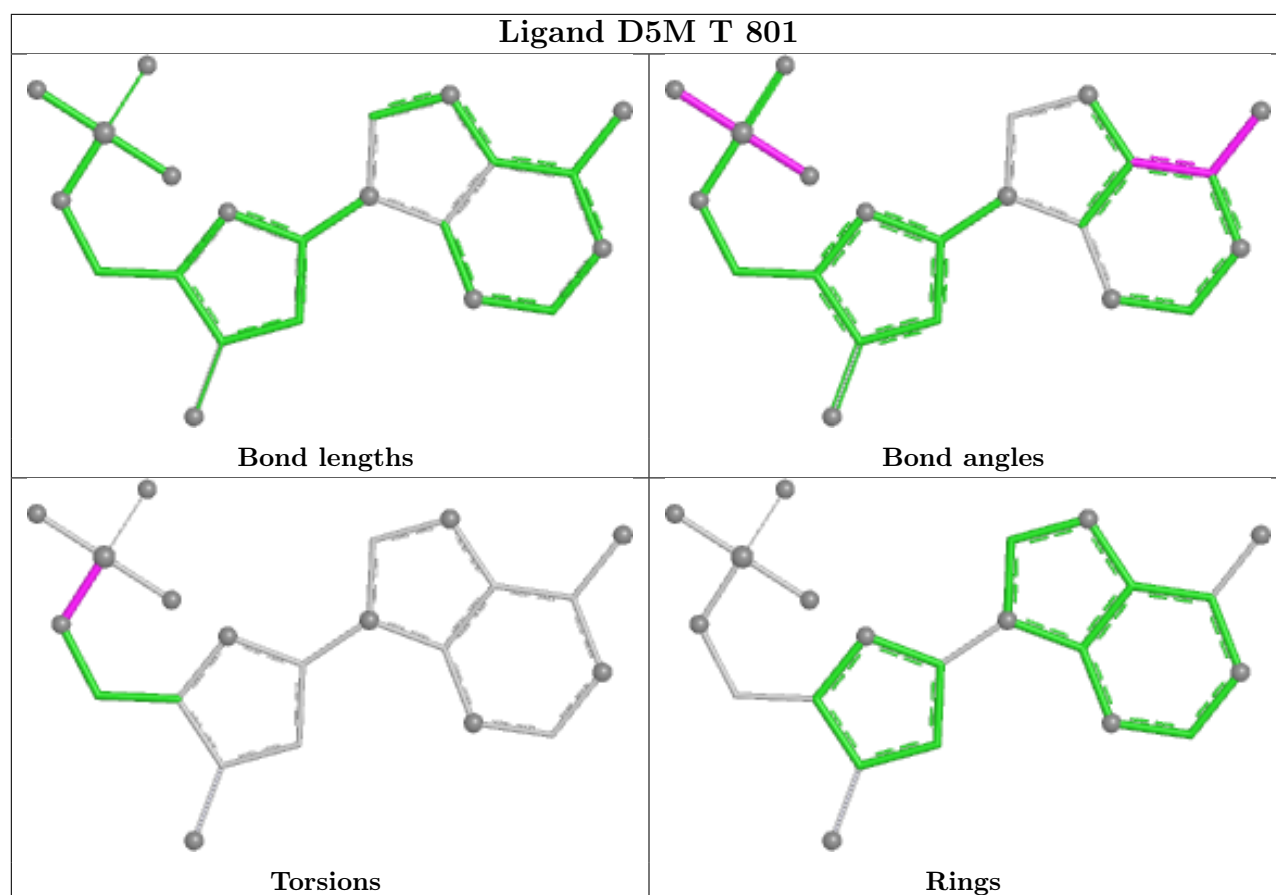
There are no ring outliers.

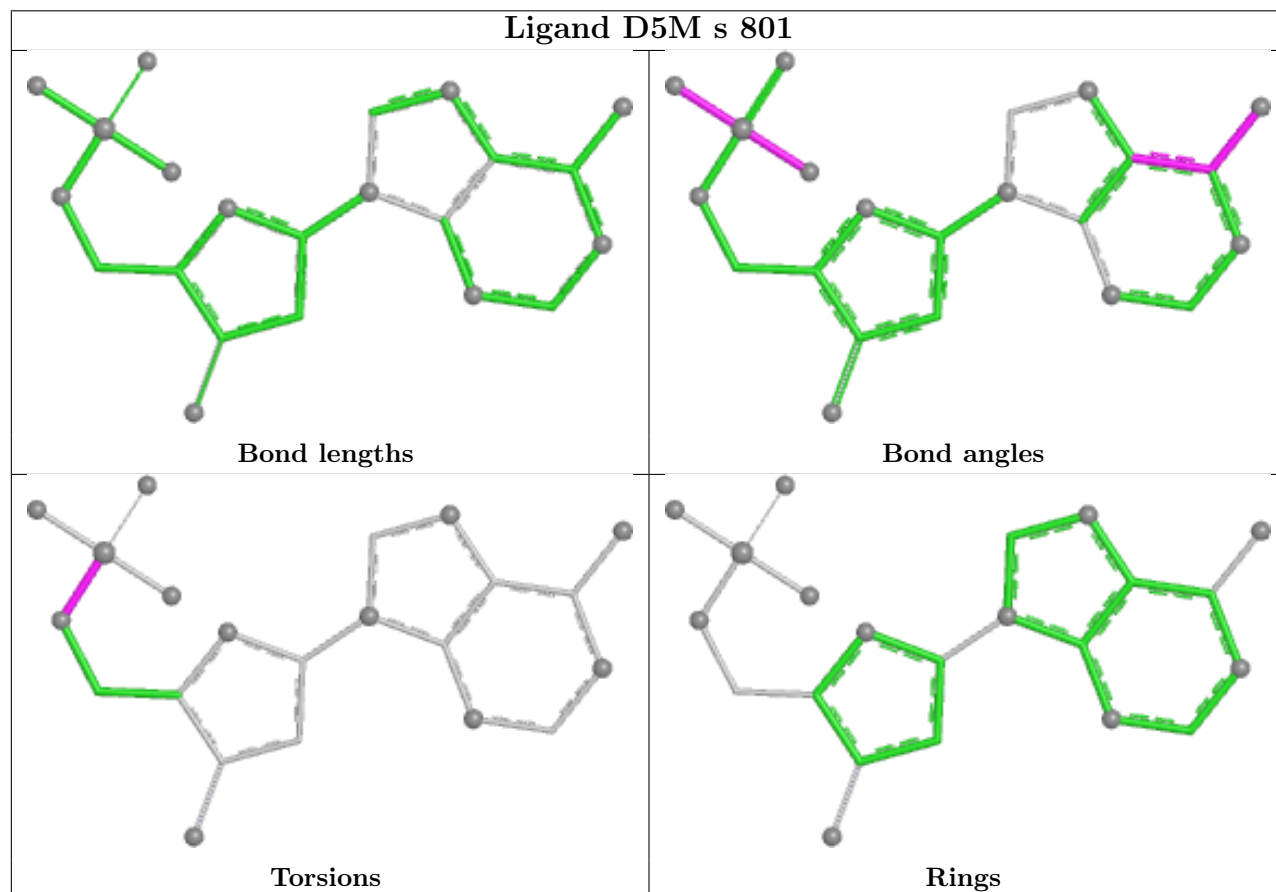
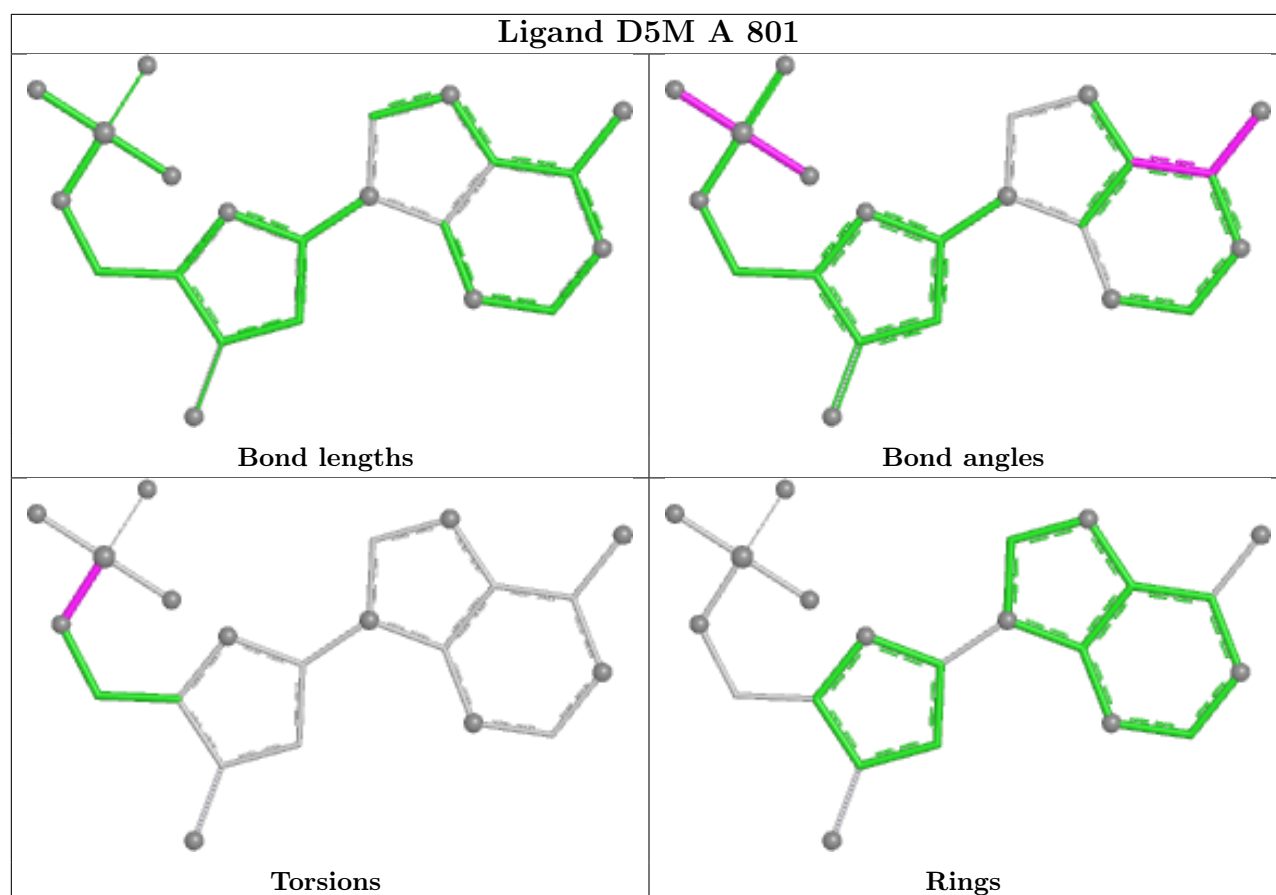
No monomer is involved in short contacts.

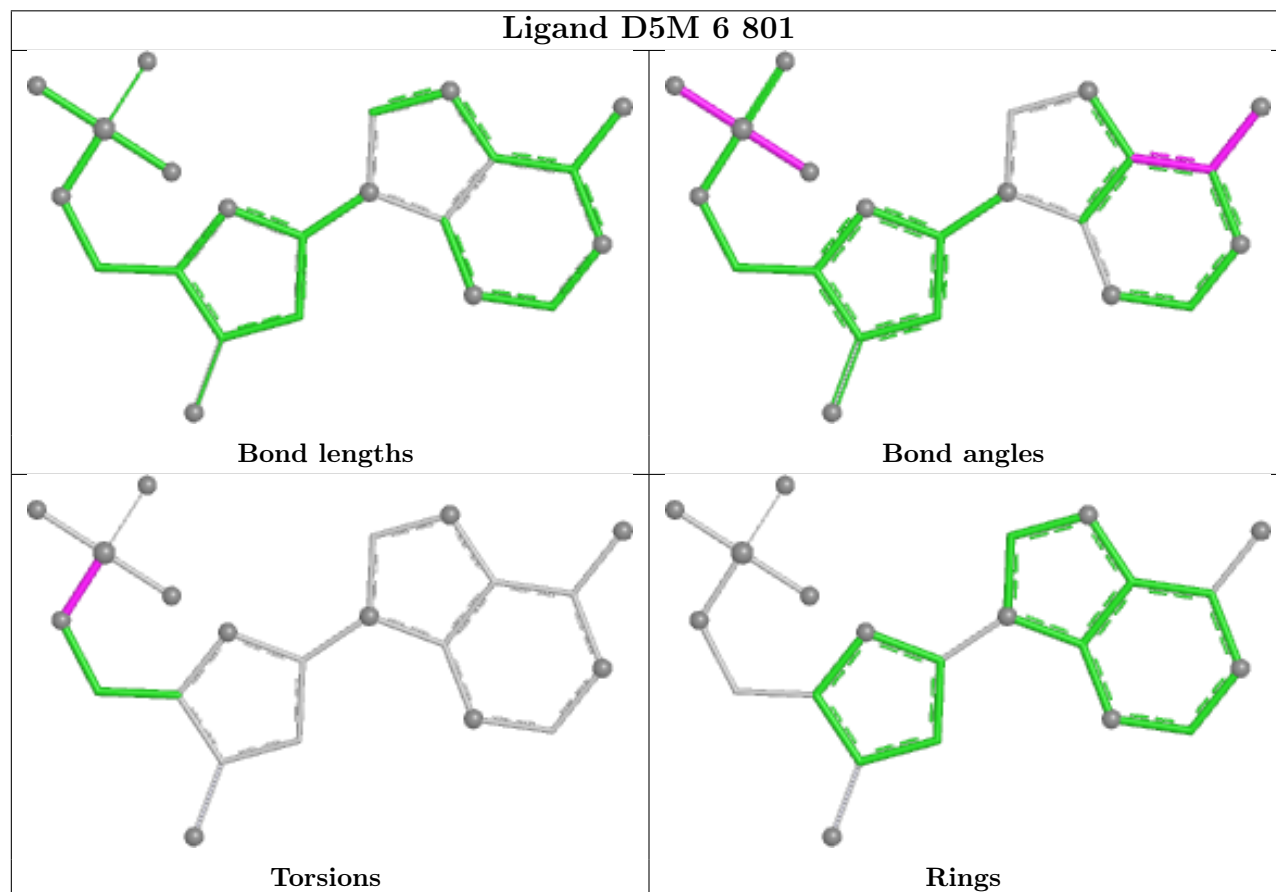
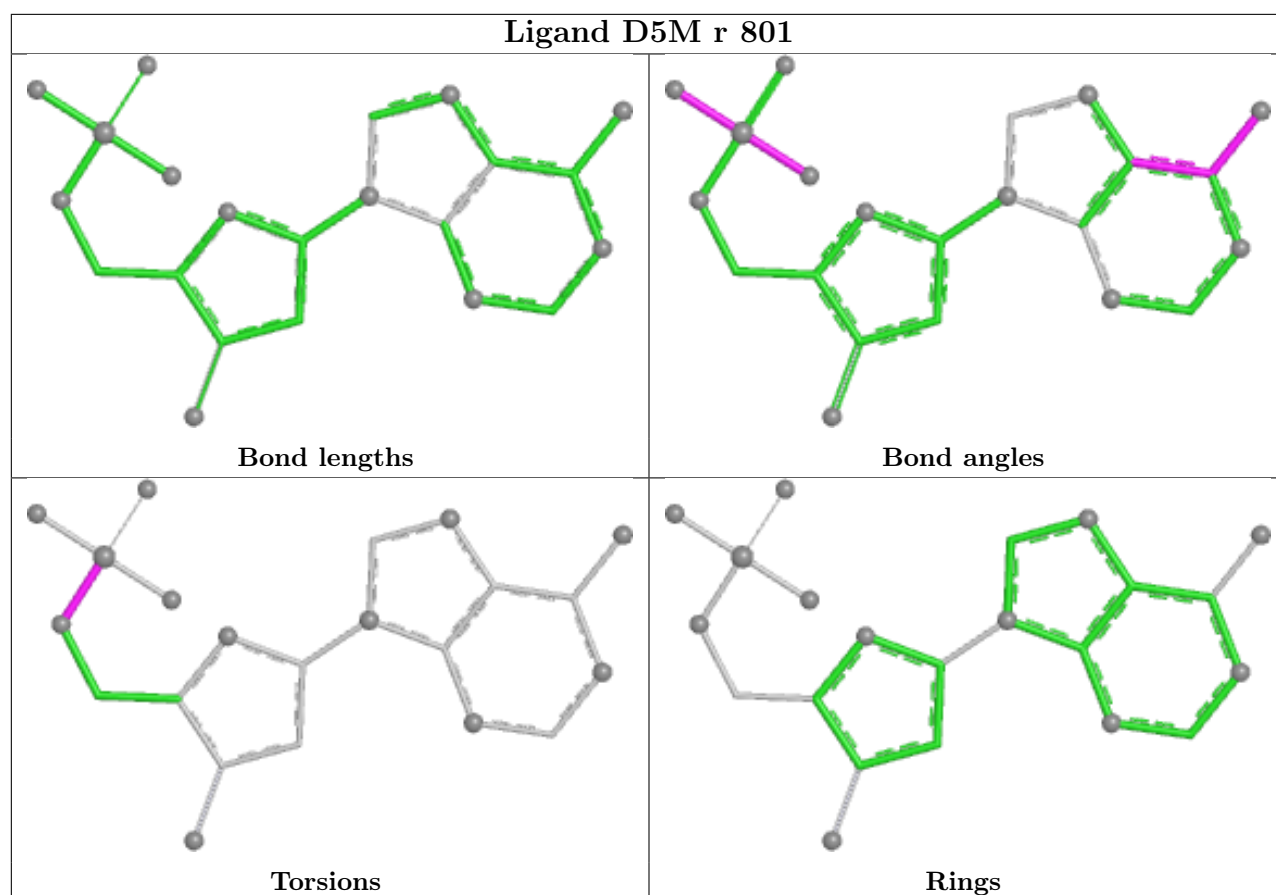
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

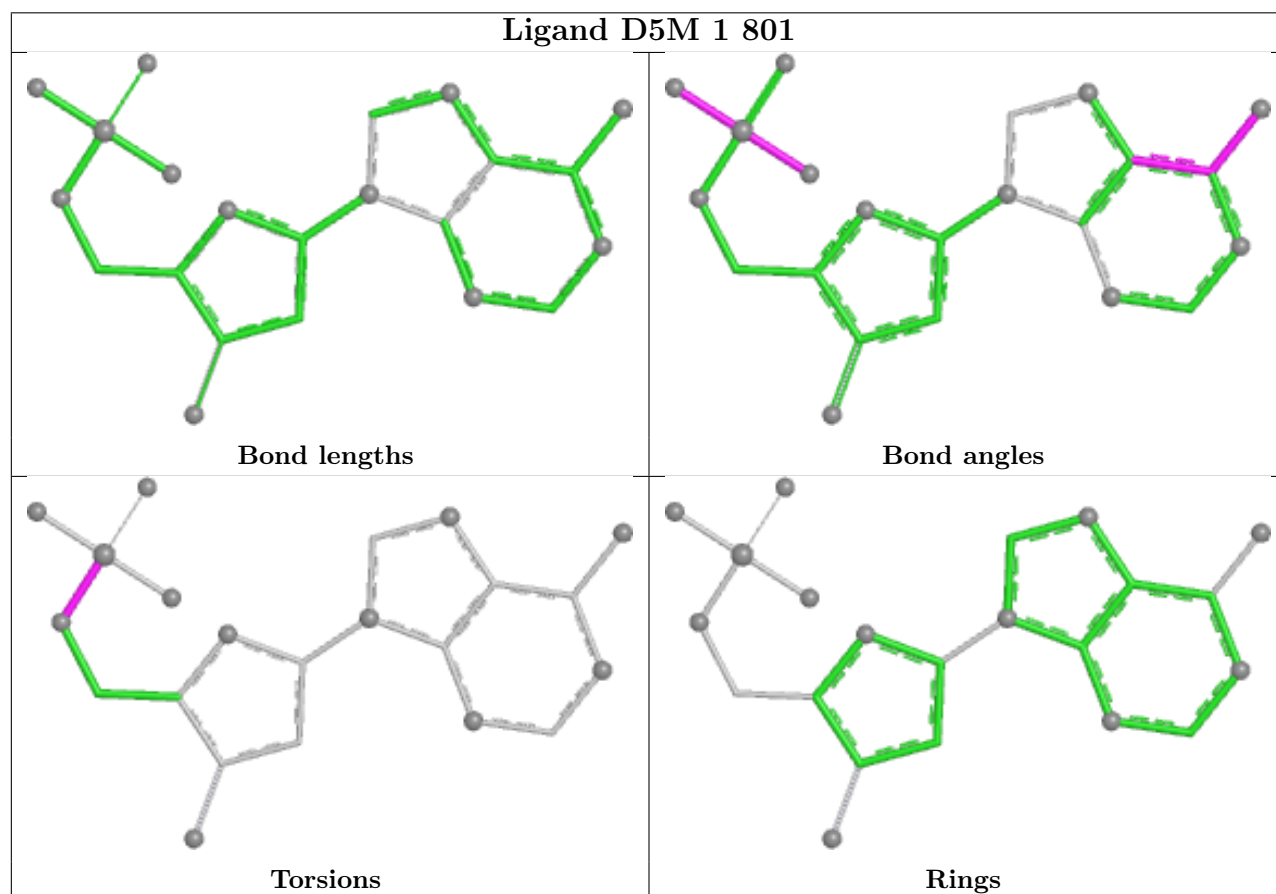
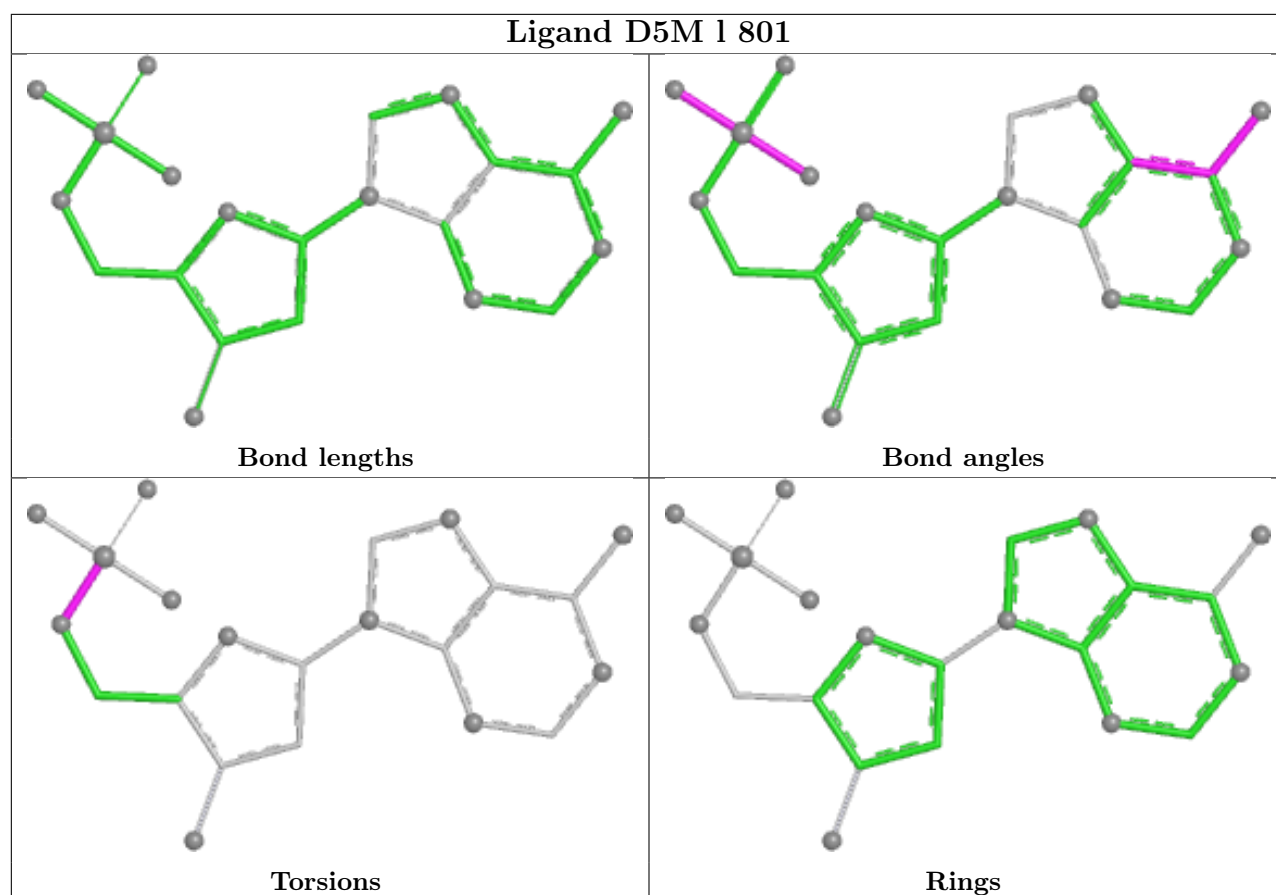




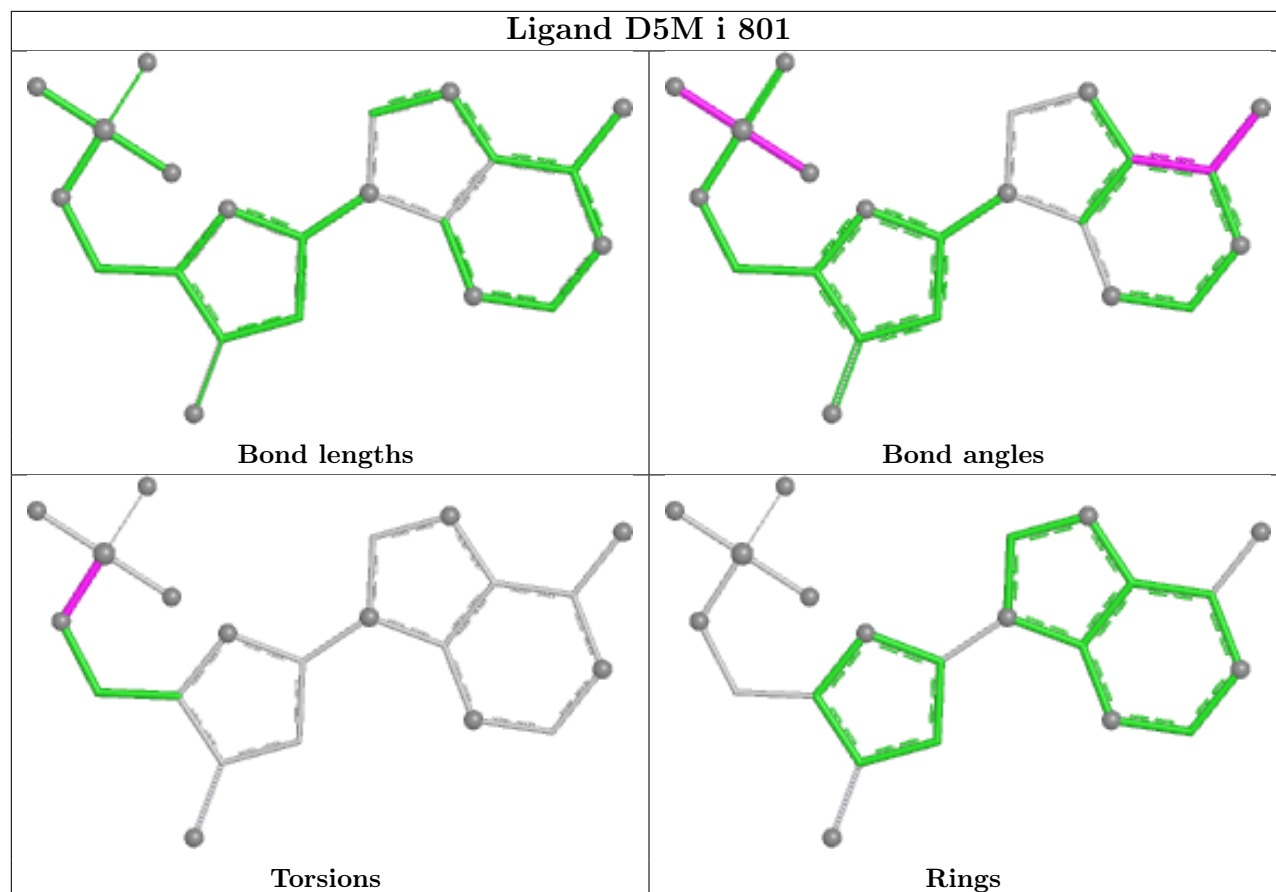




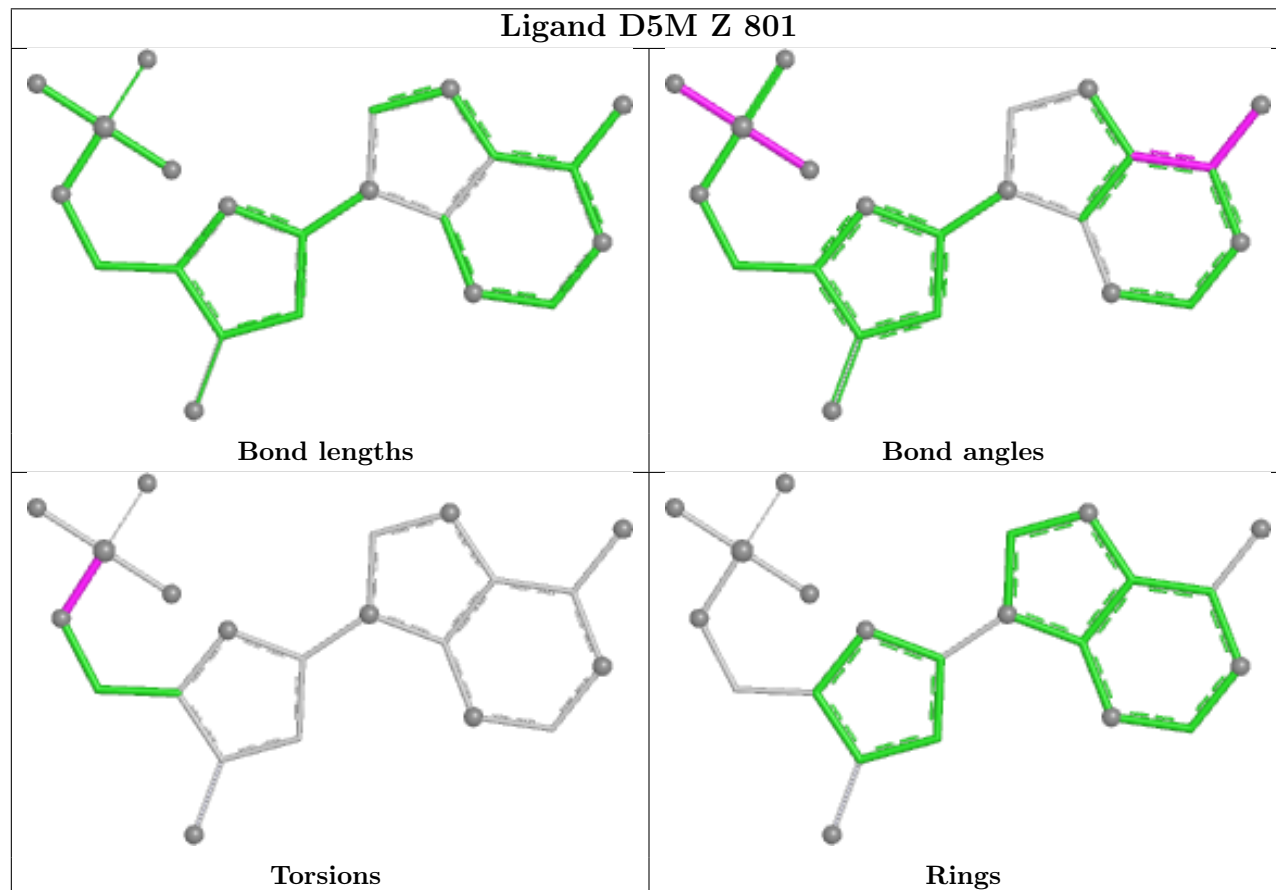




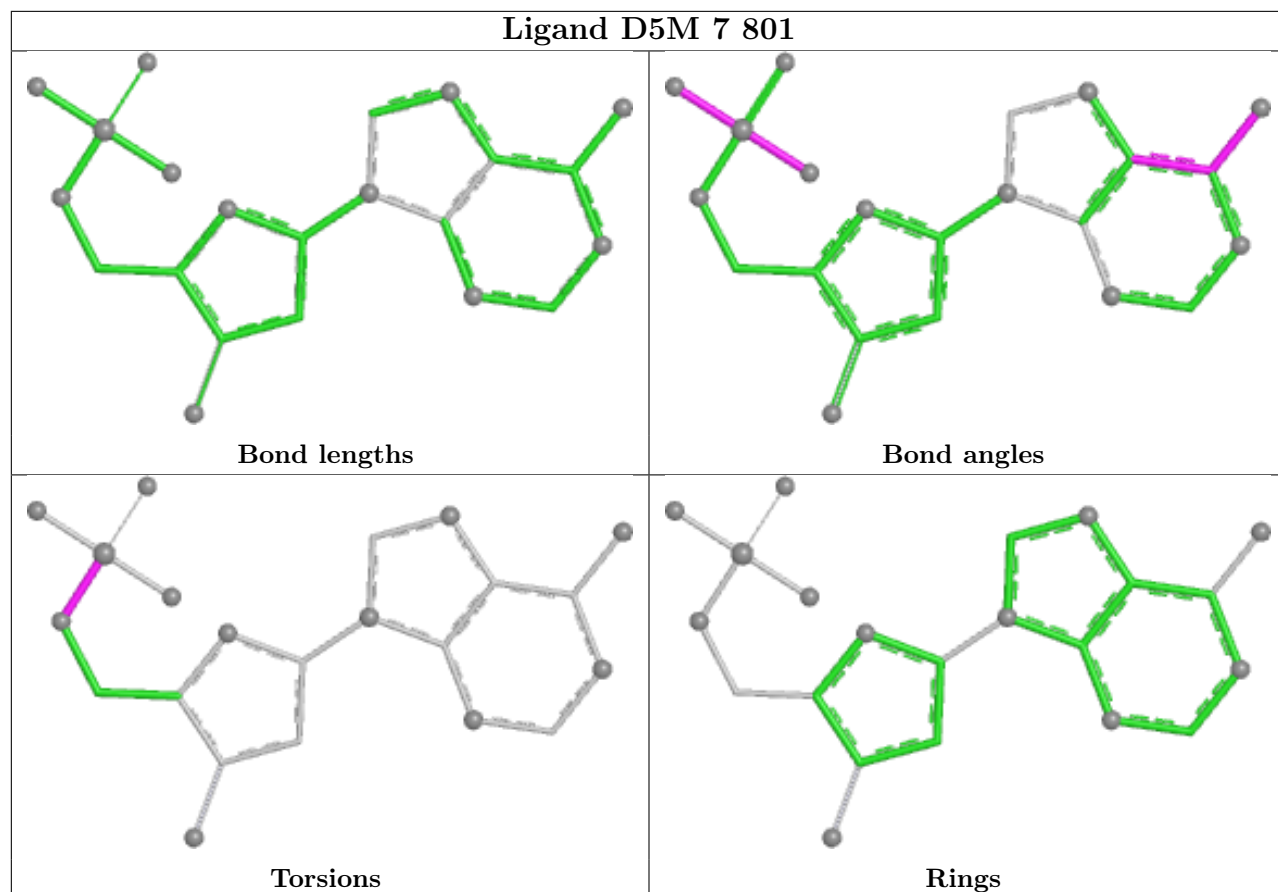
Ligand D5M i 801



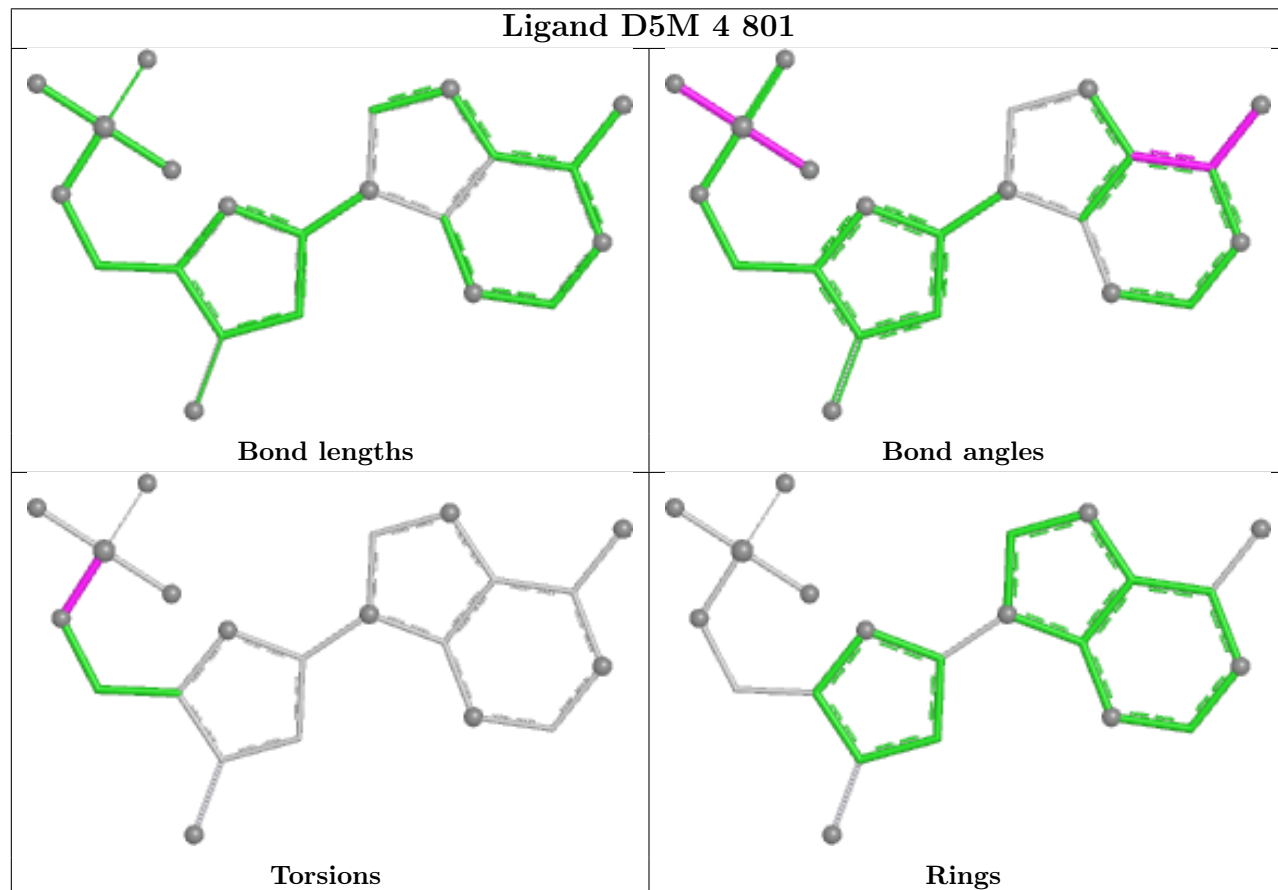
Ligand D5M Z 801

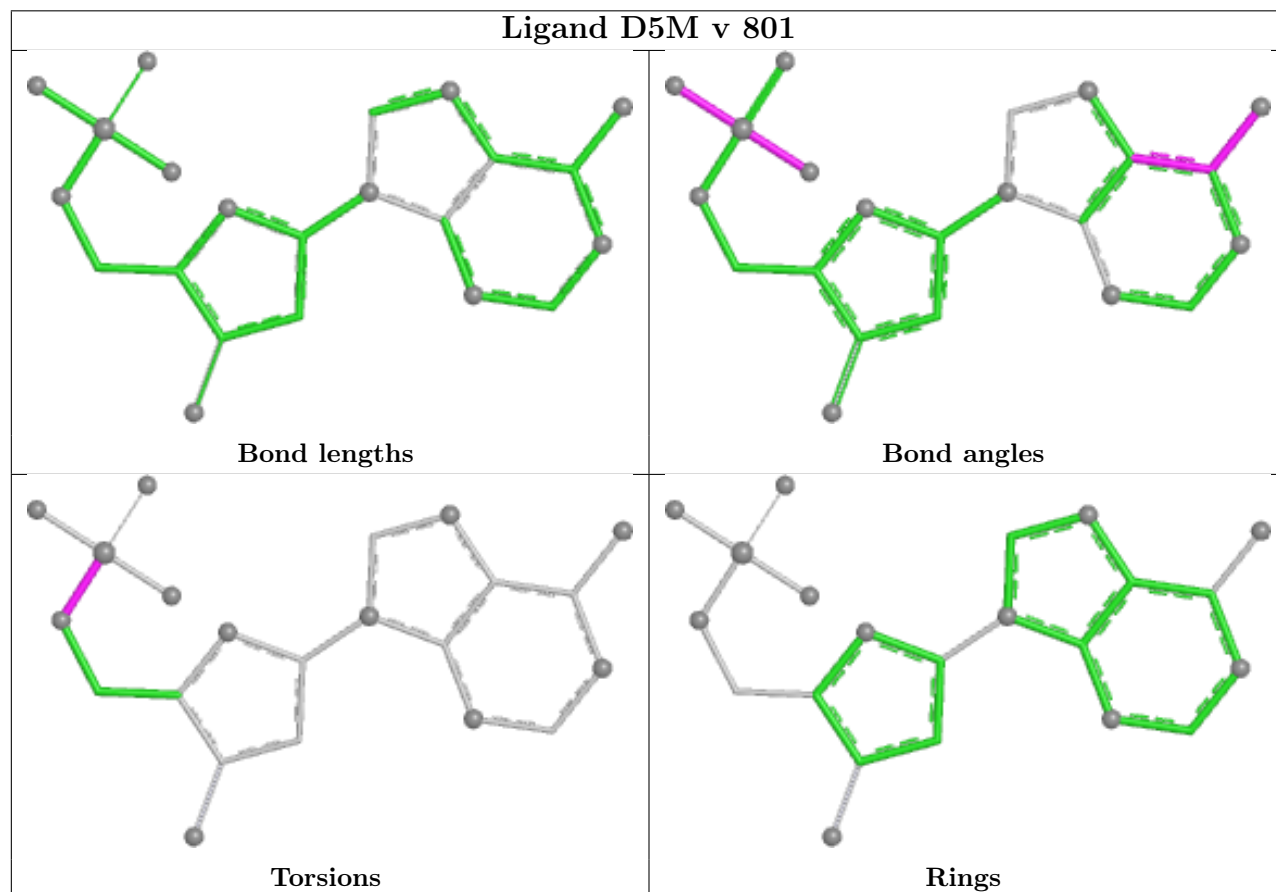
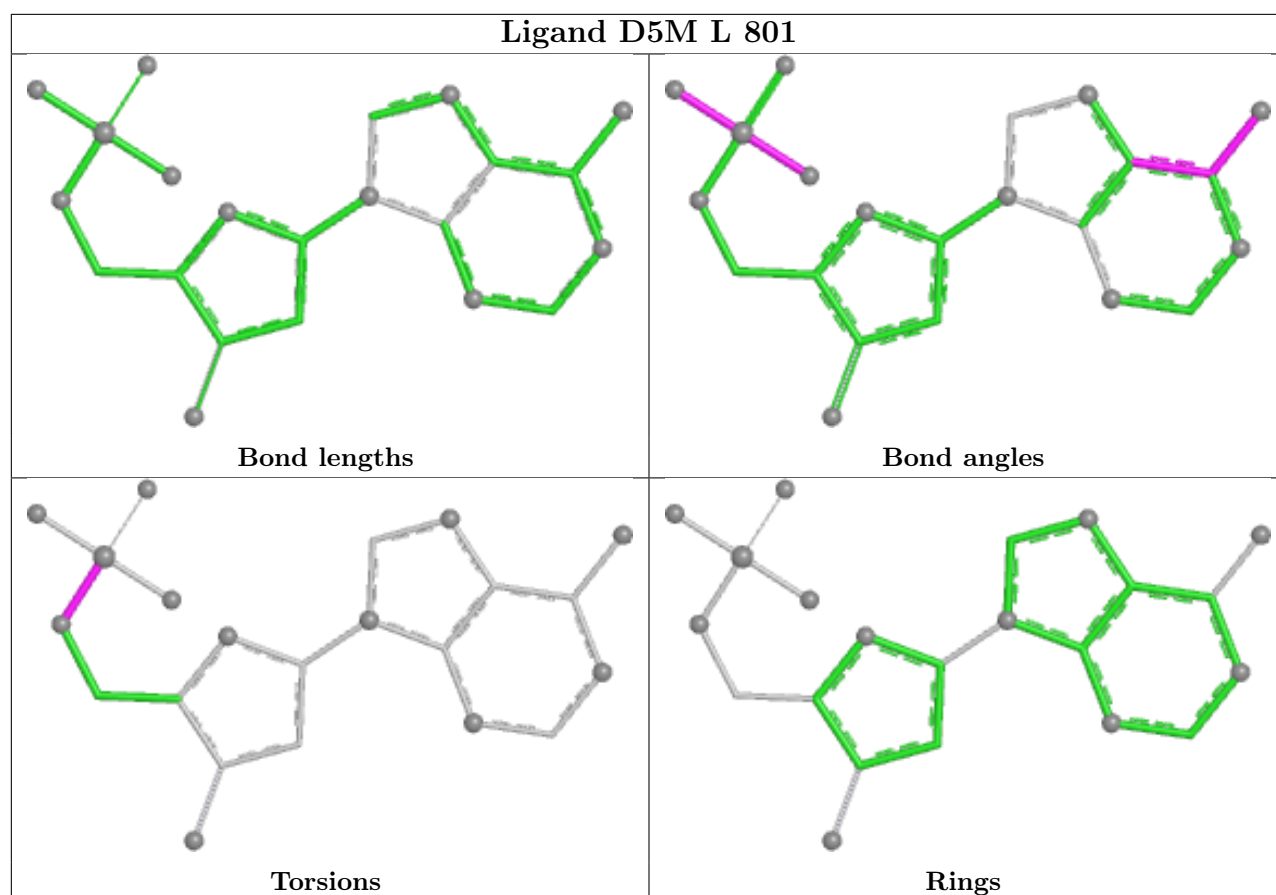


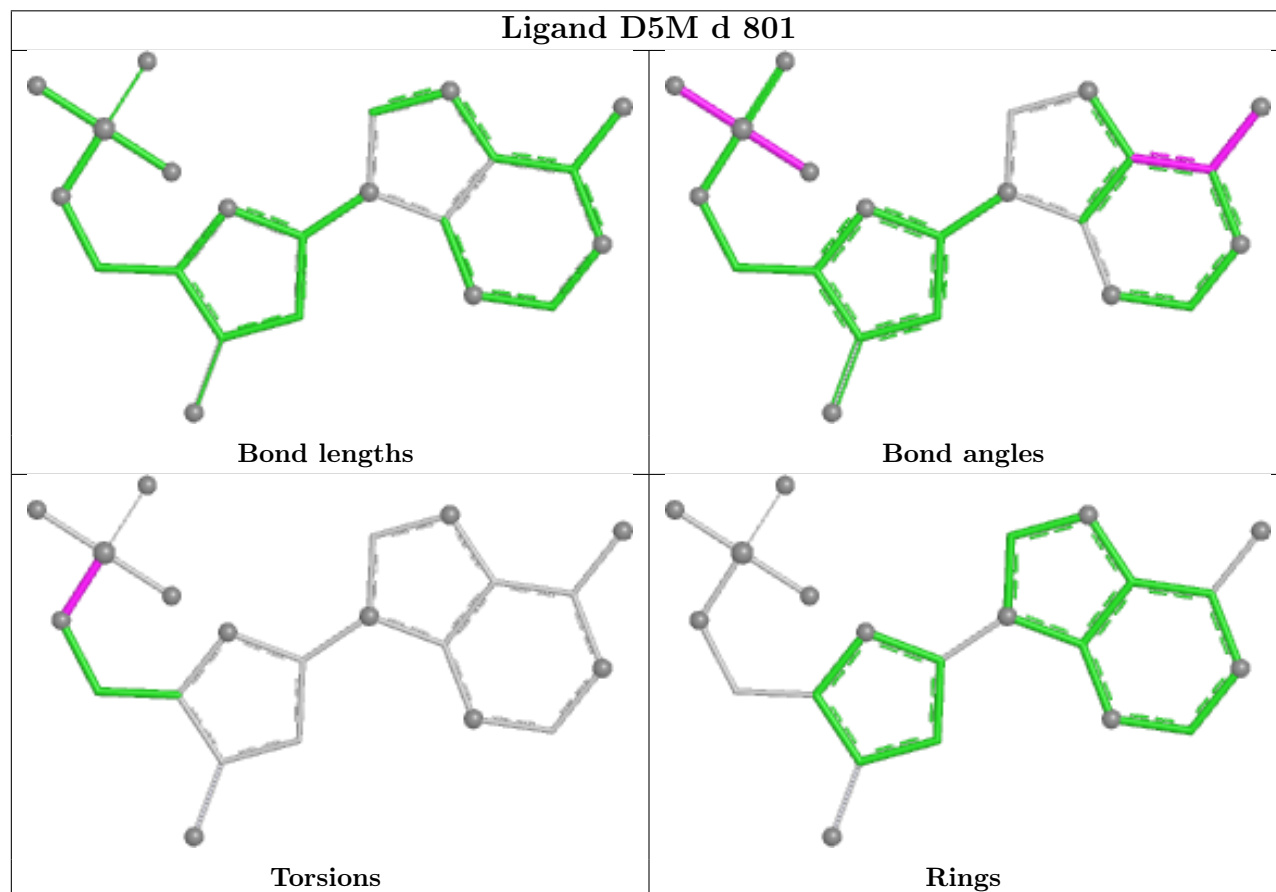
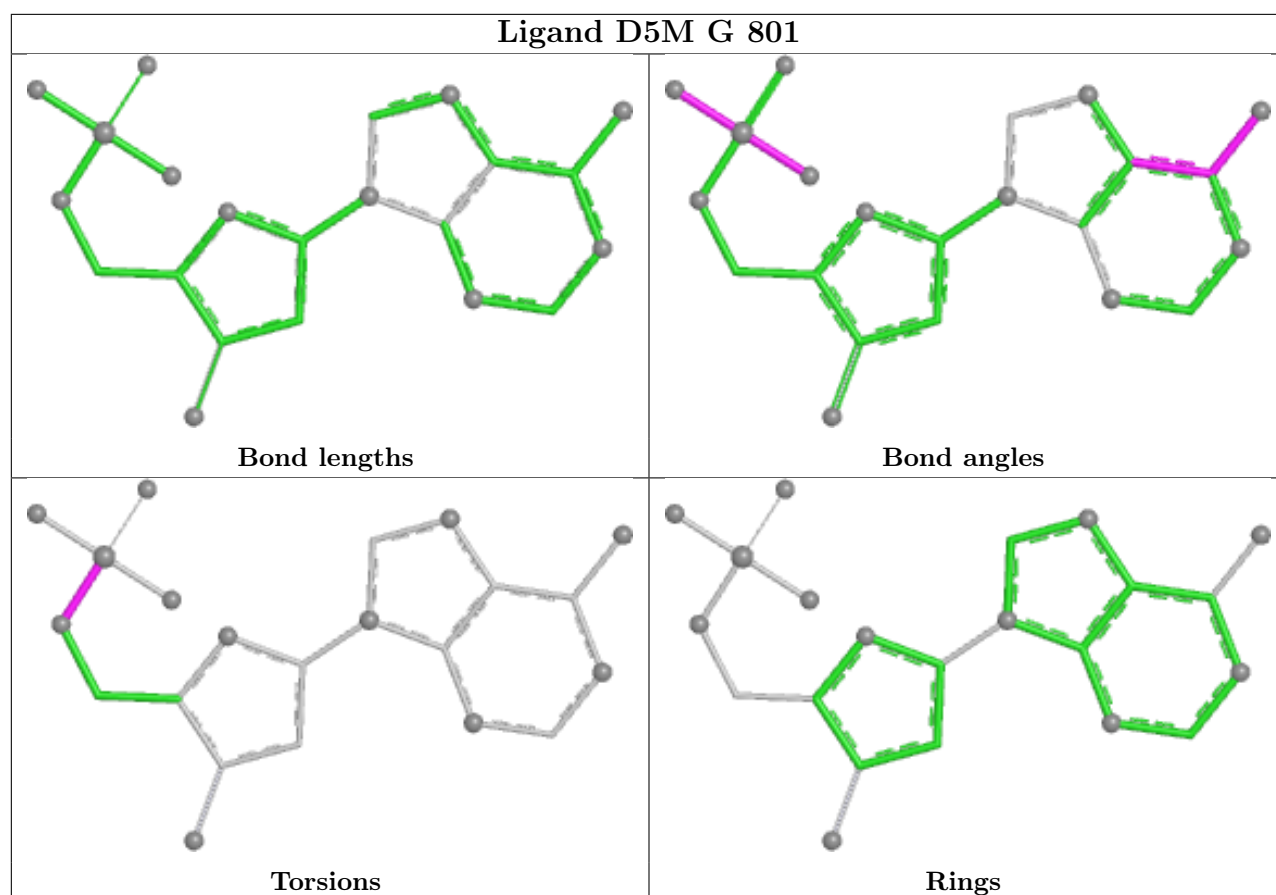
Ligand D5M 7 801

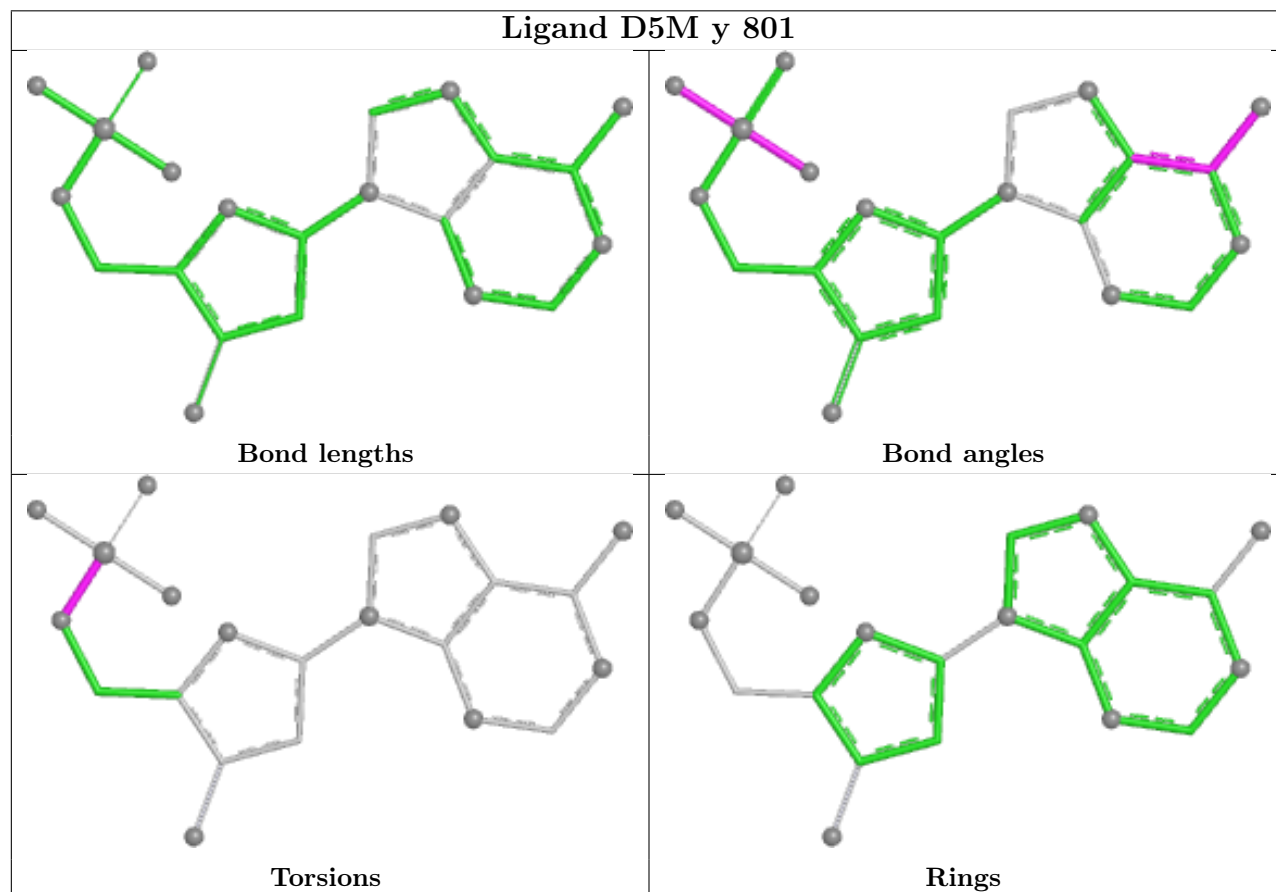
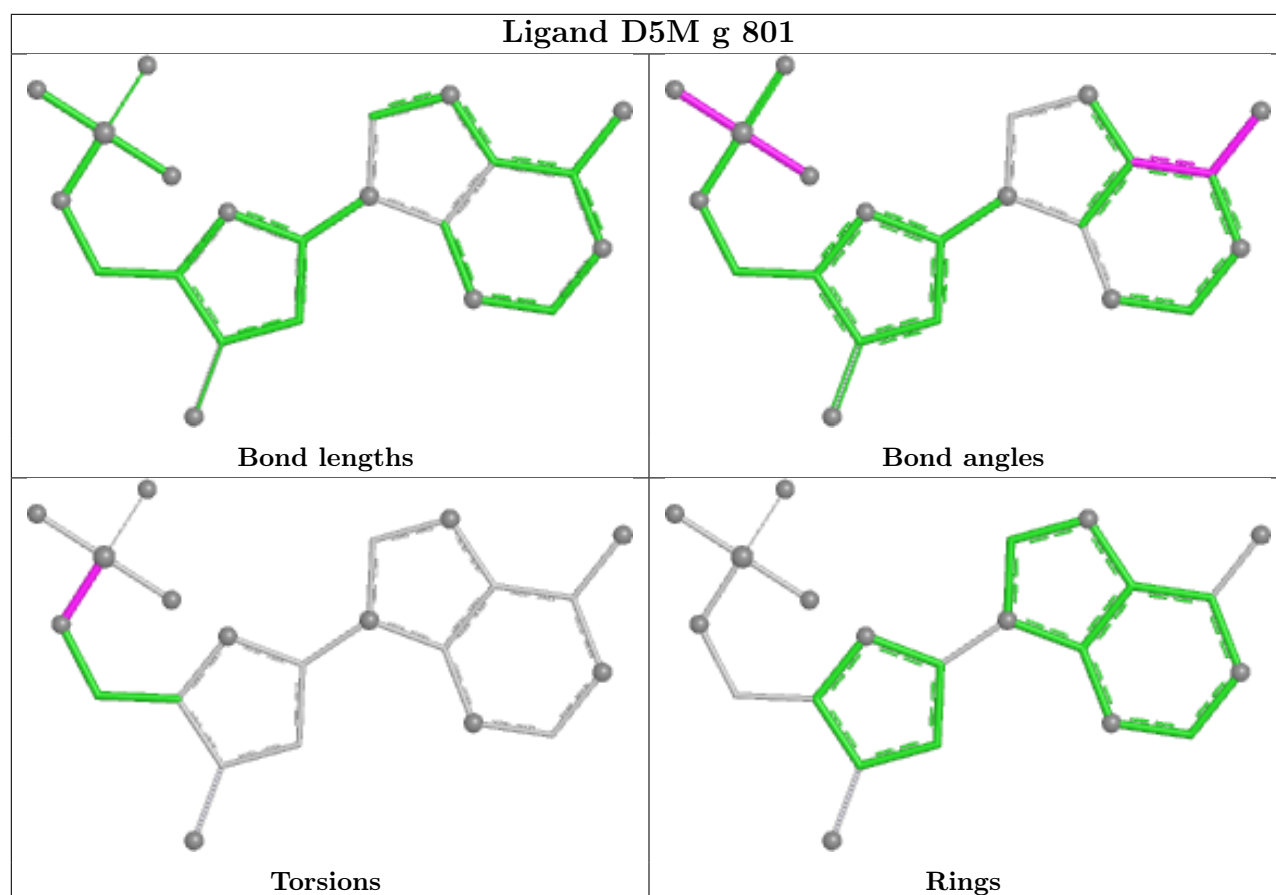


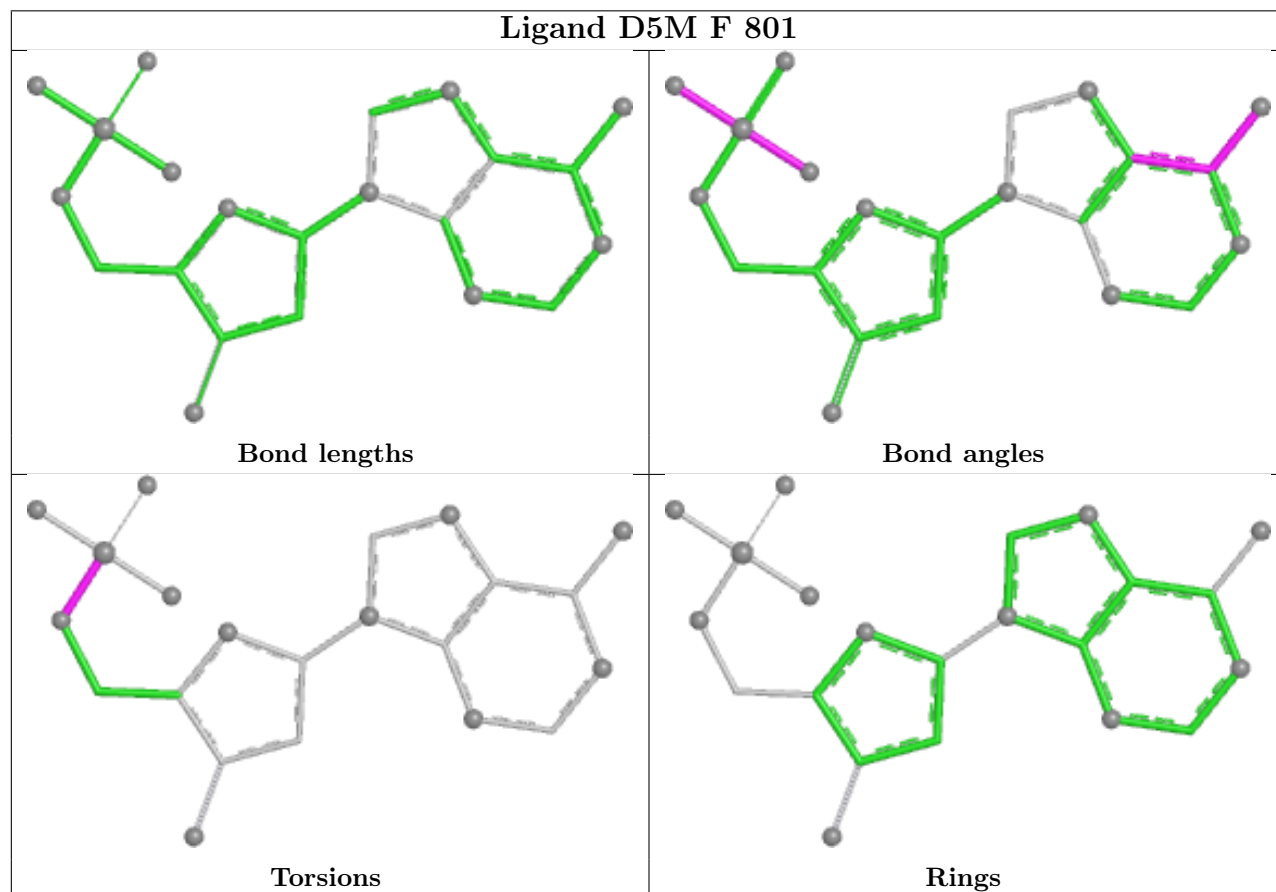
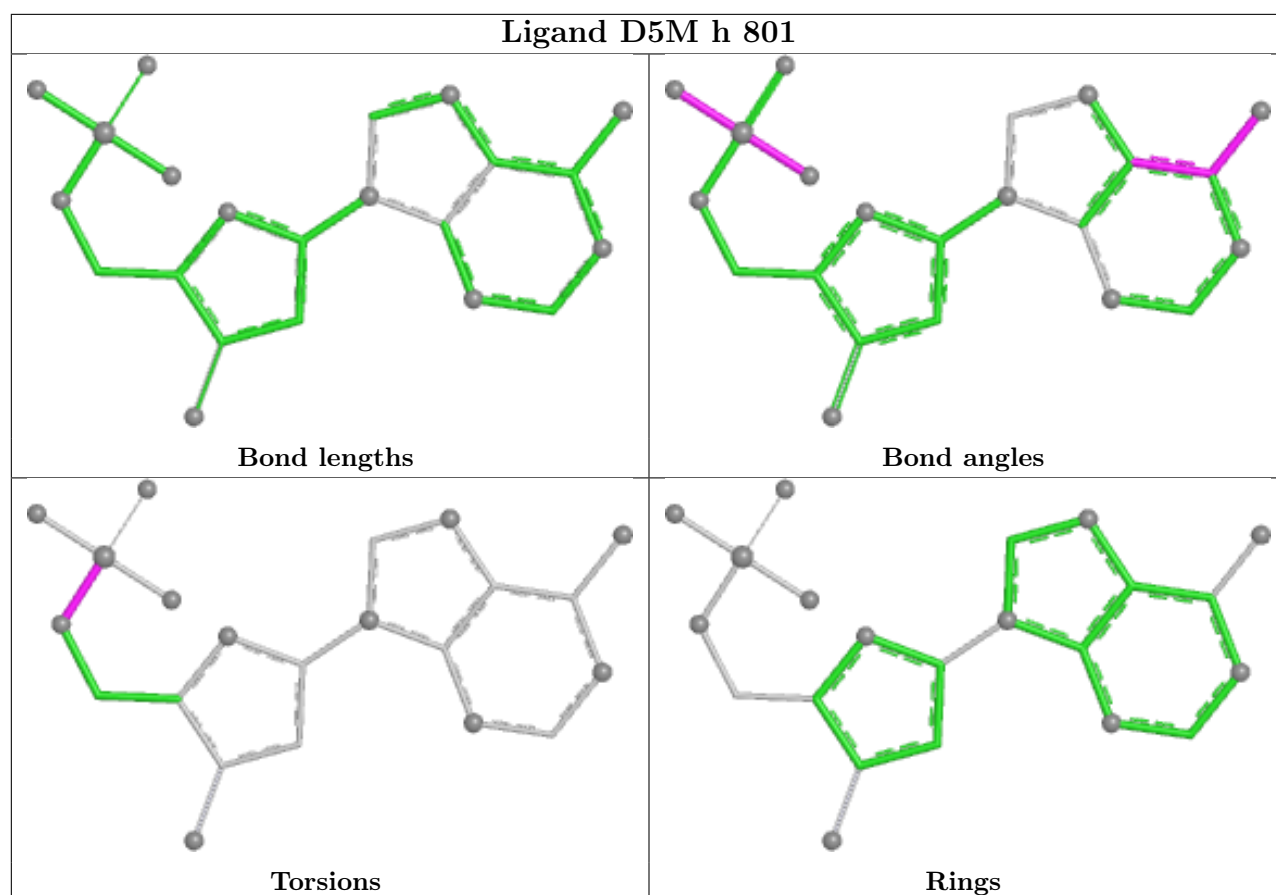
Ligand D5M 4 801

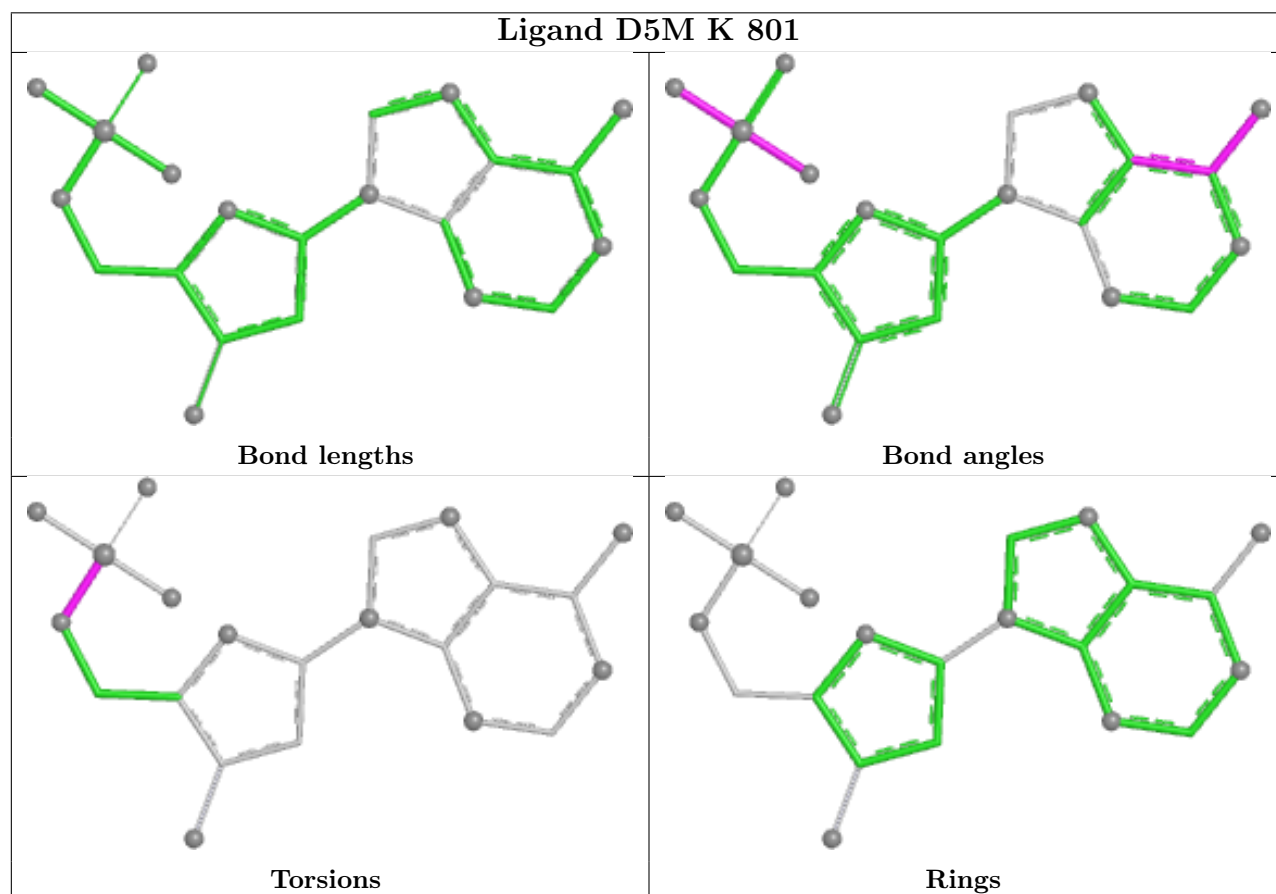
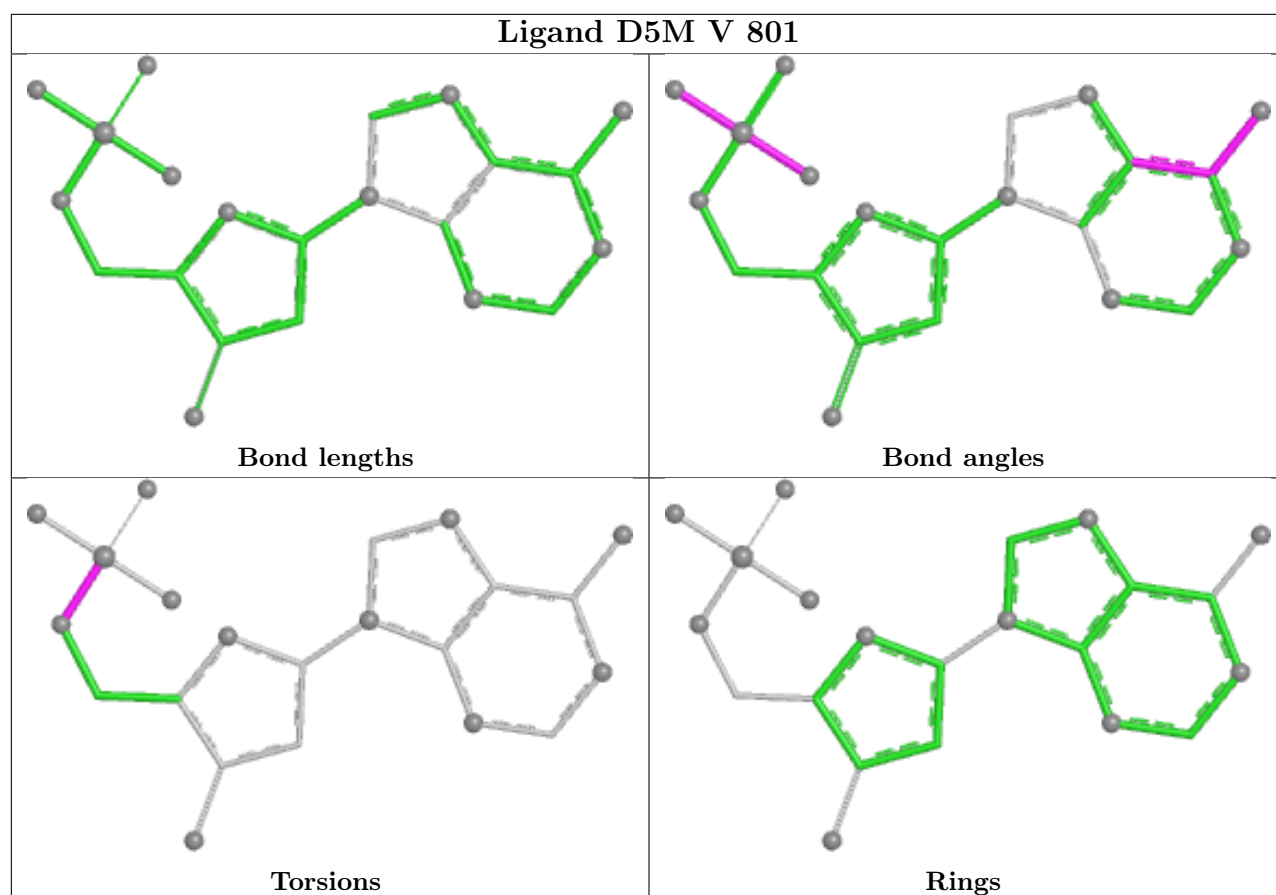


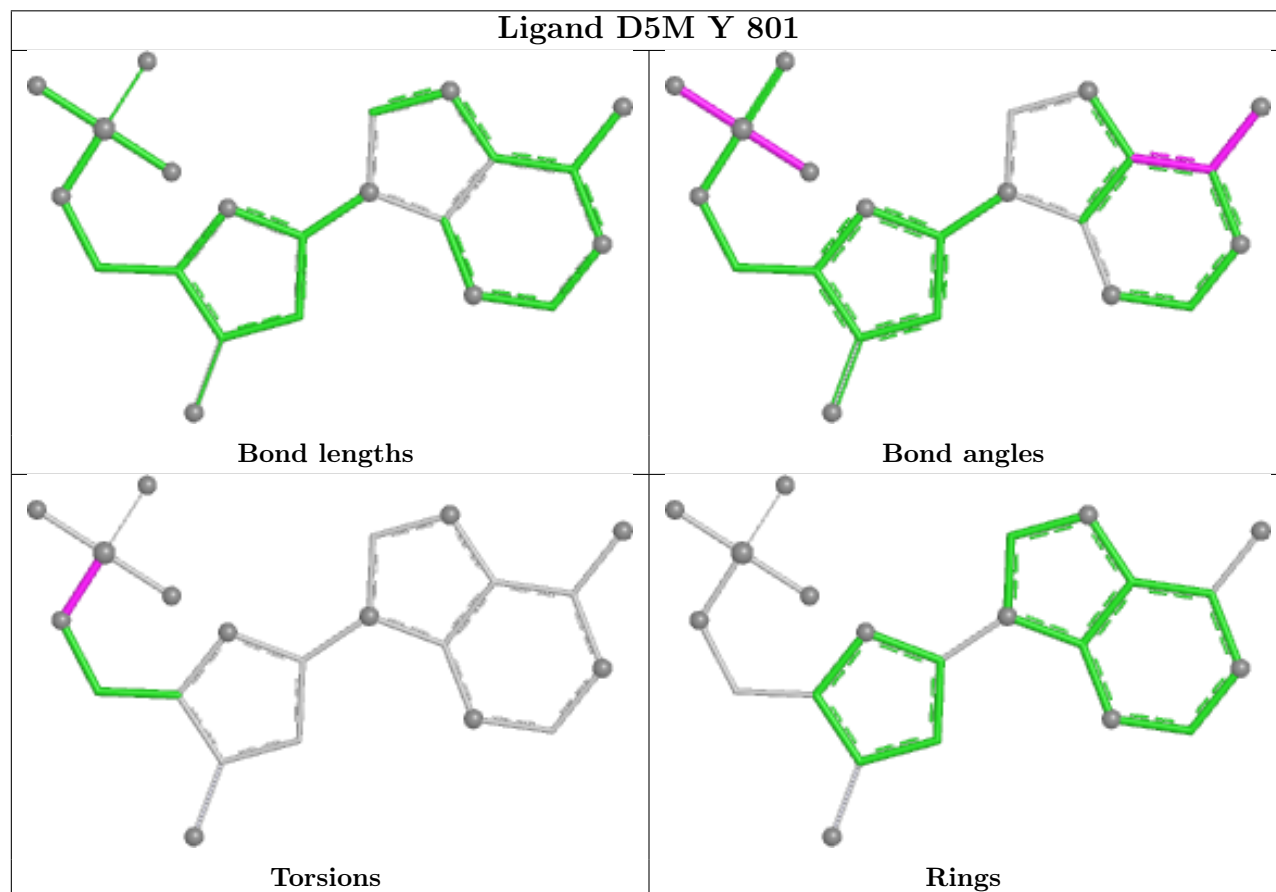
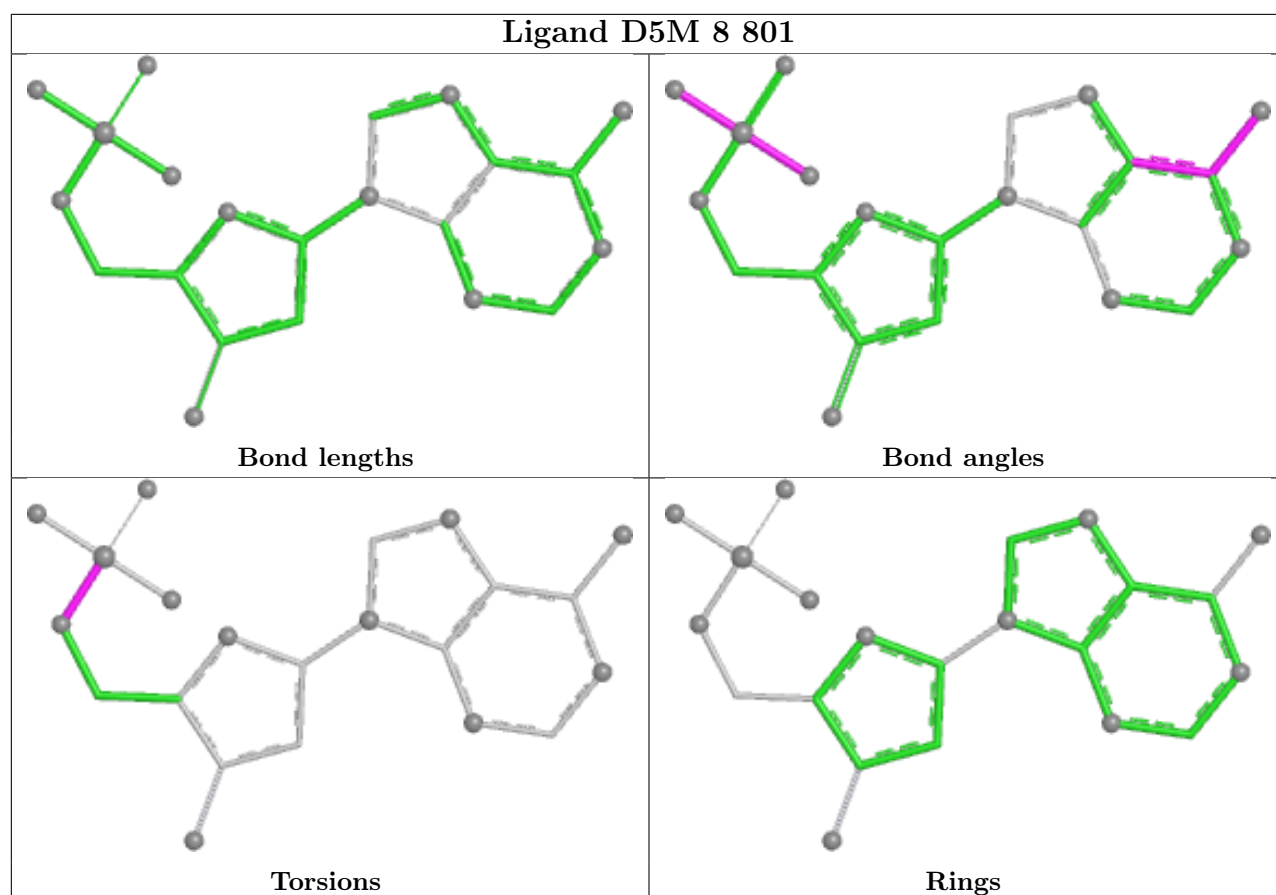


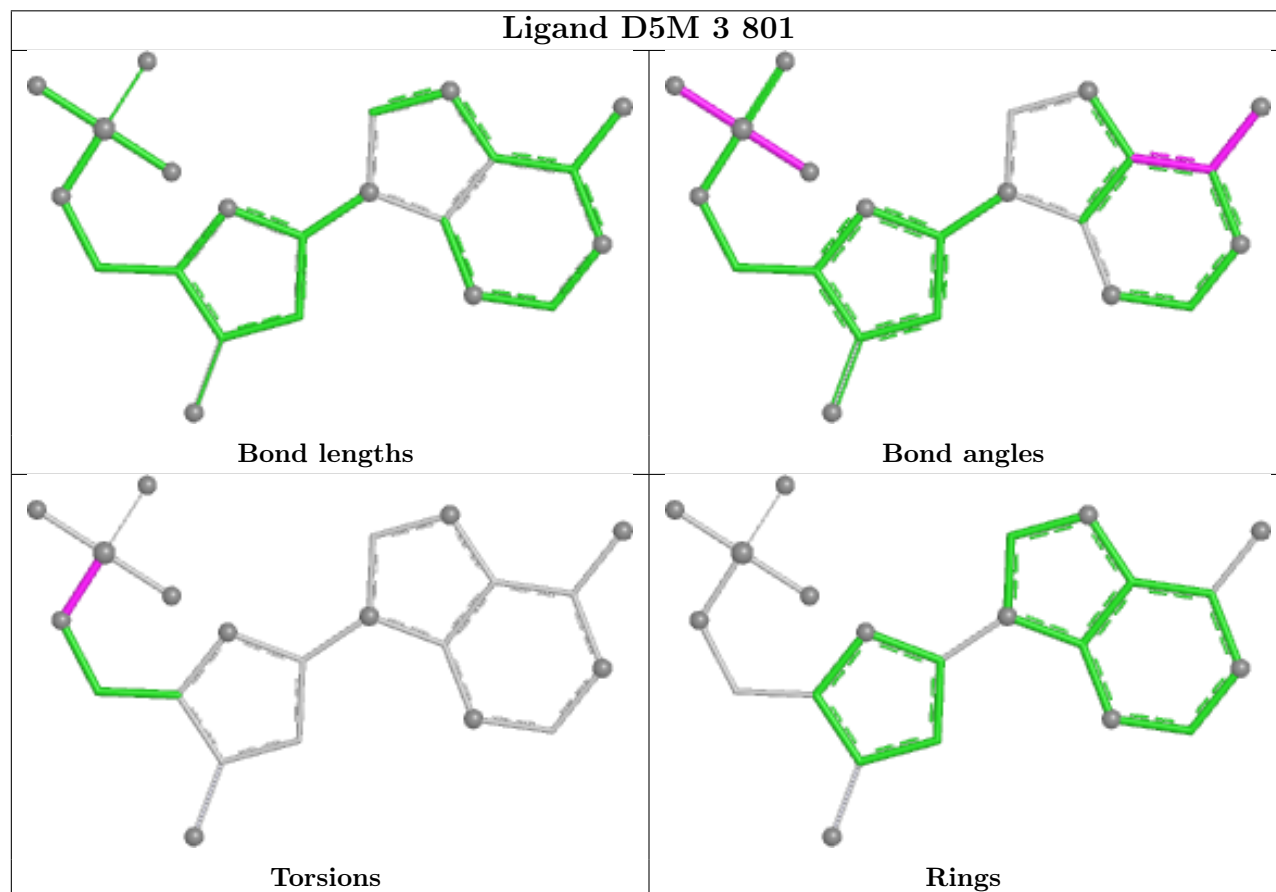
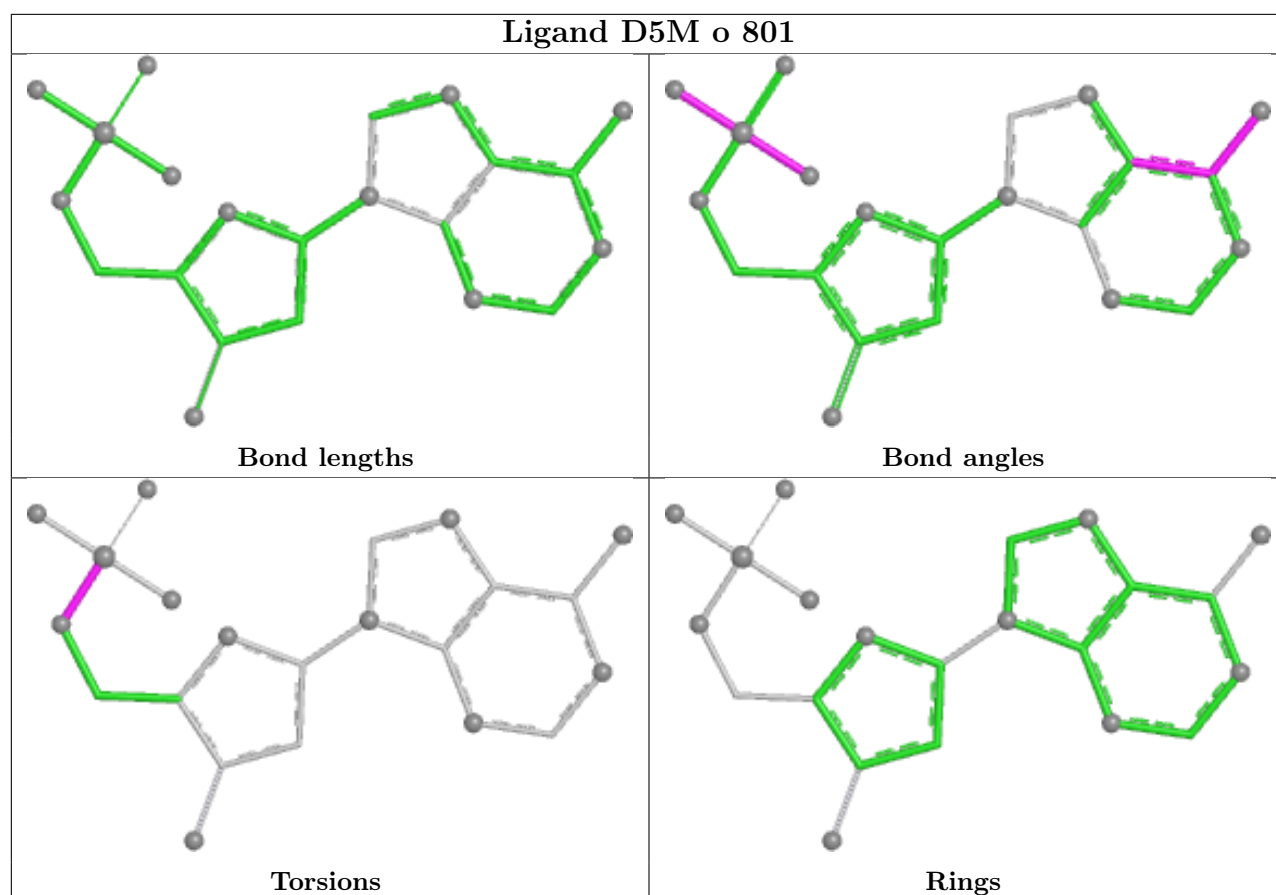


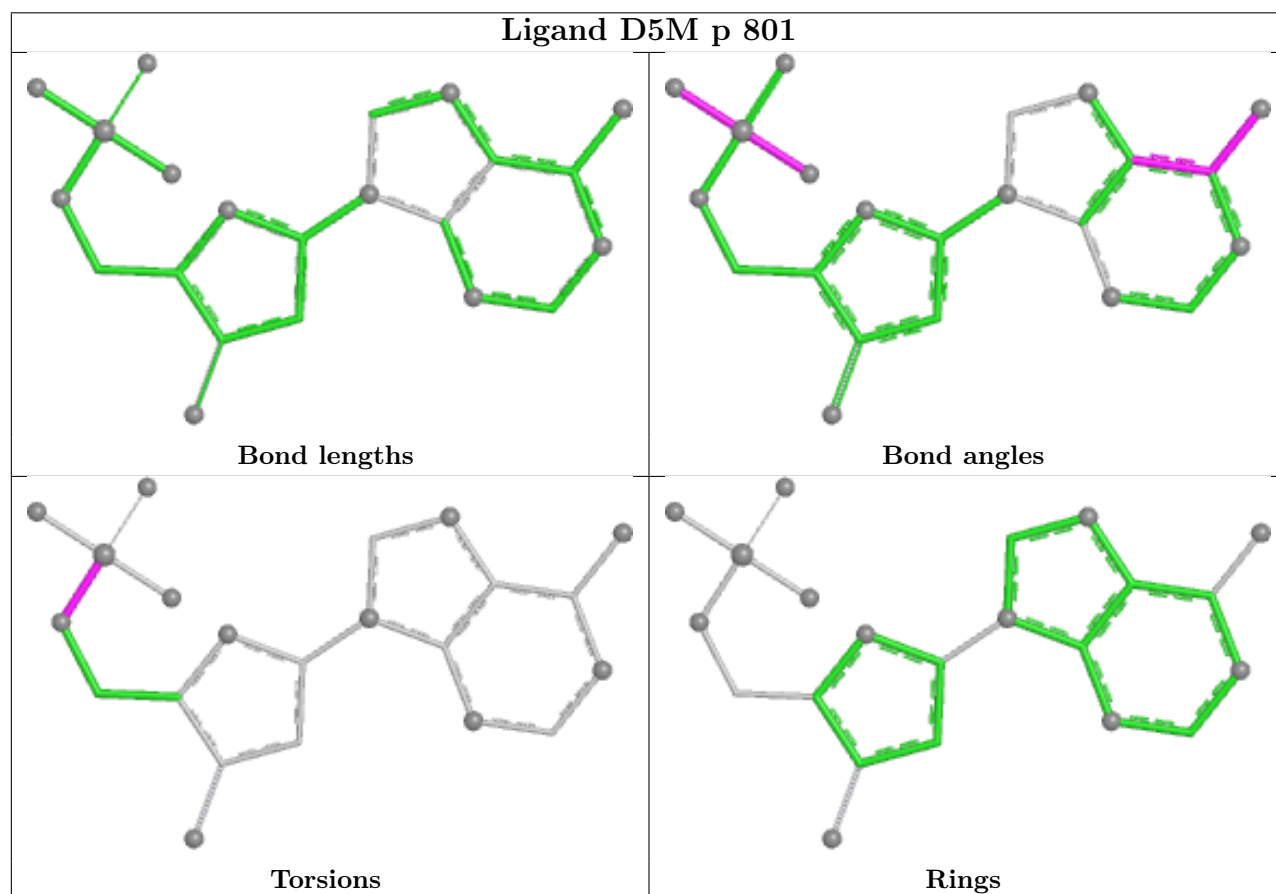
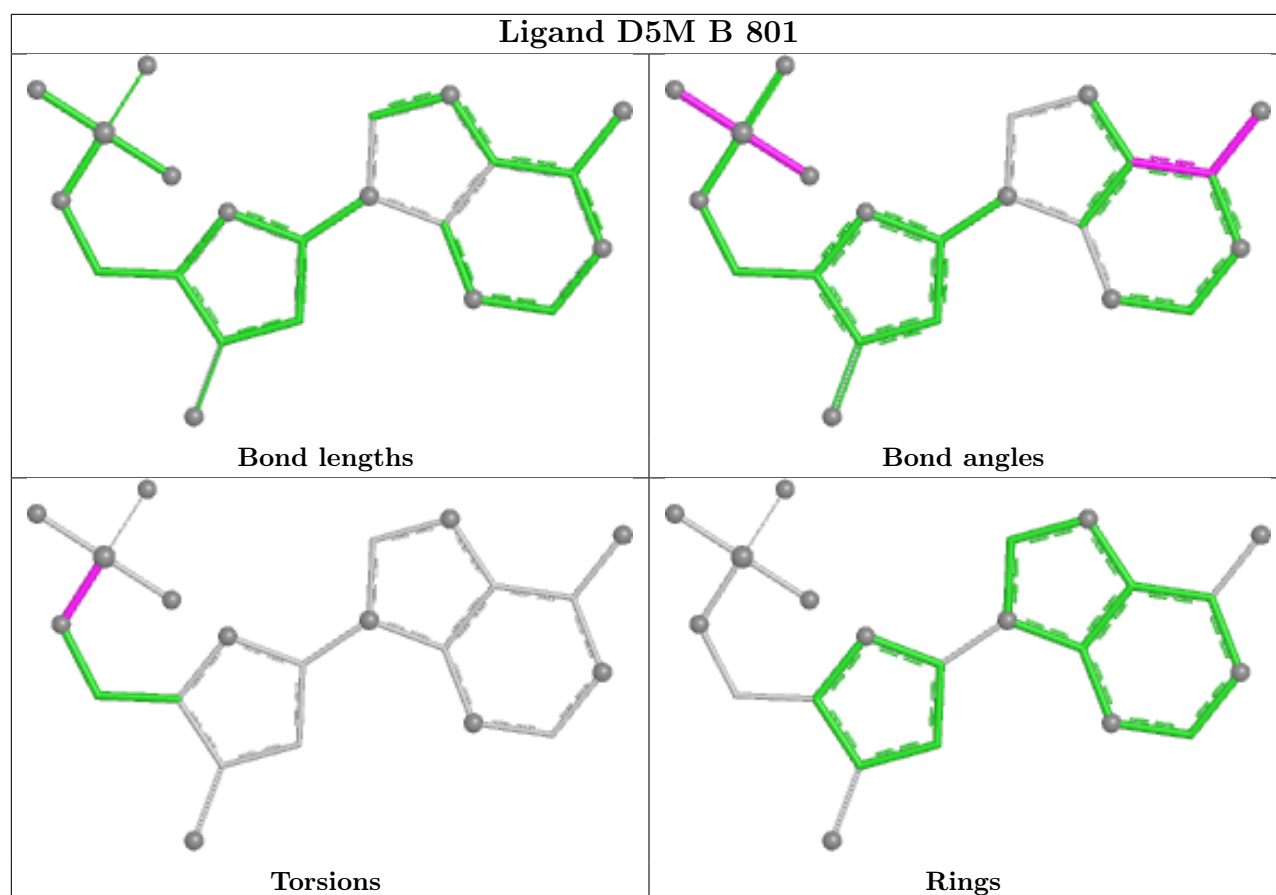


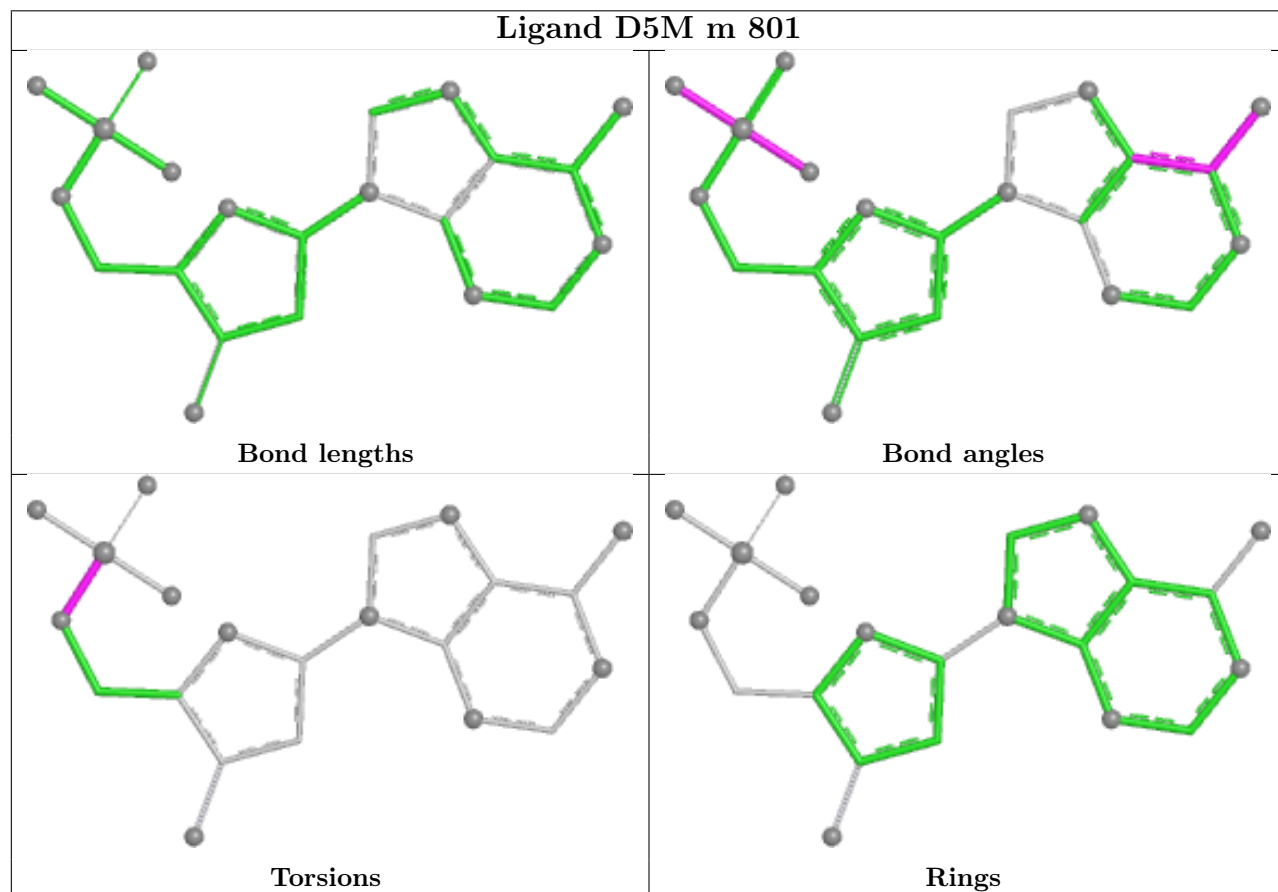
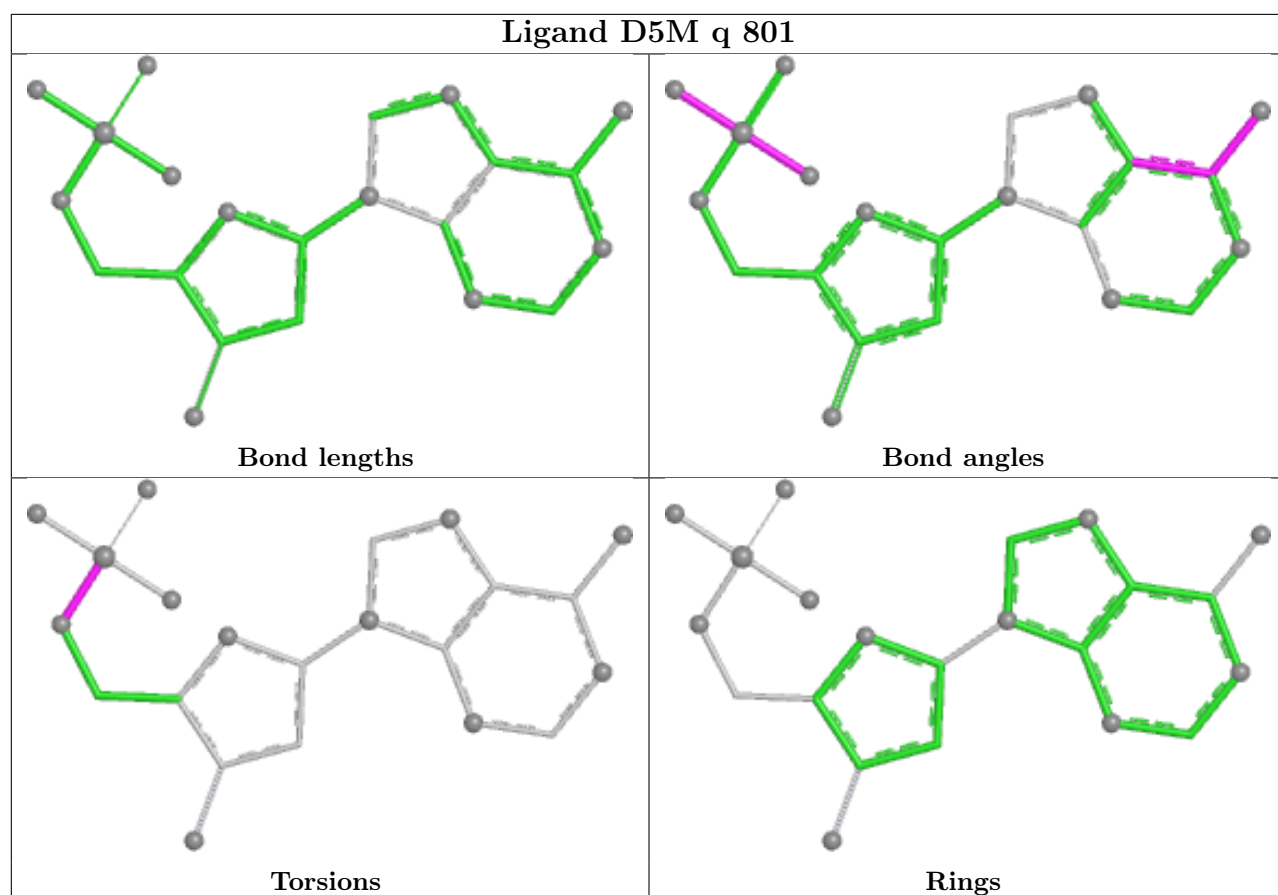


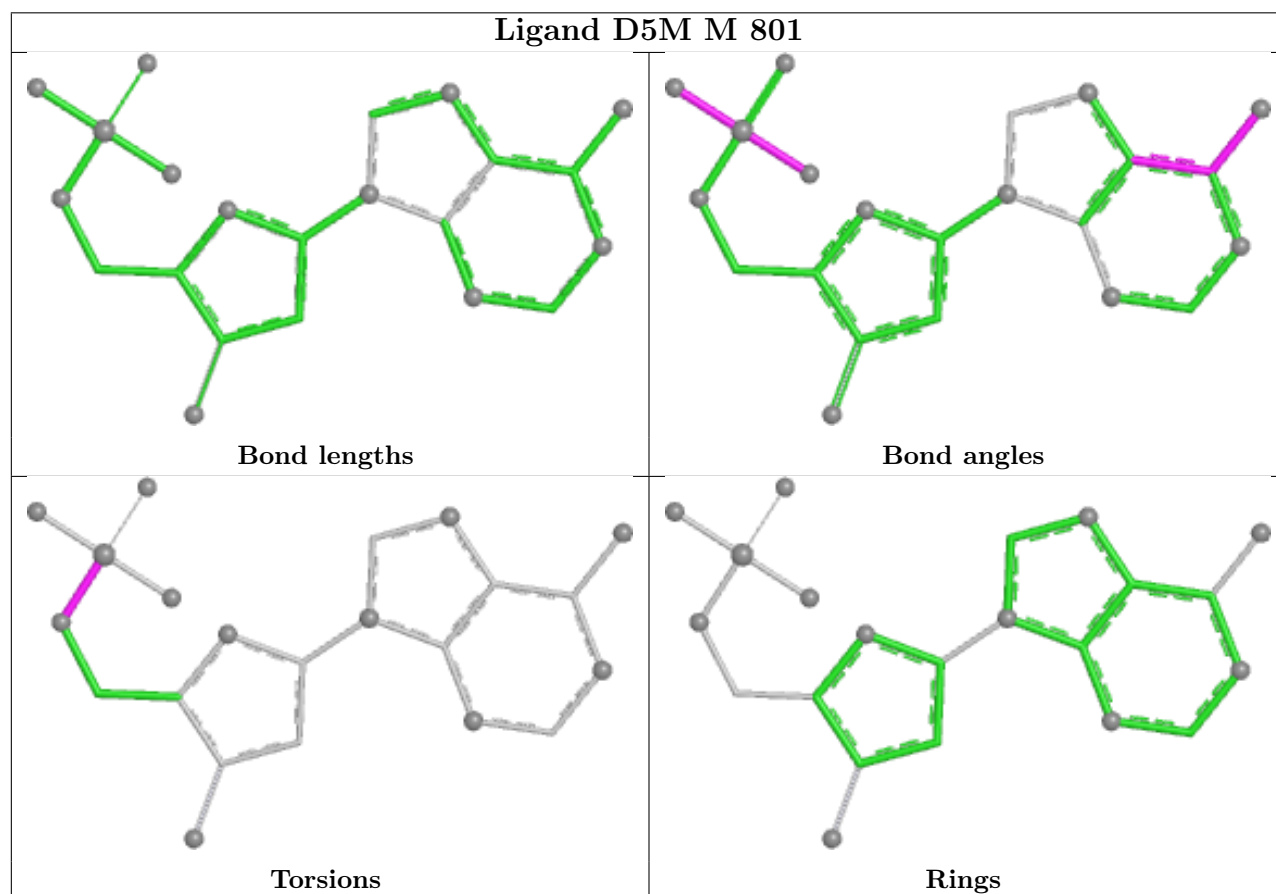
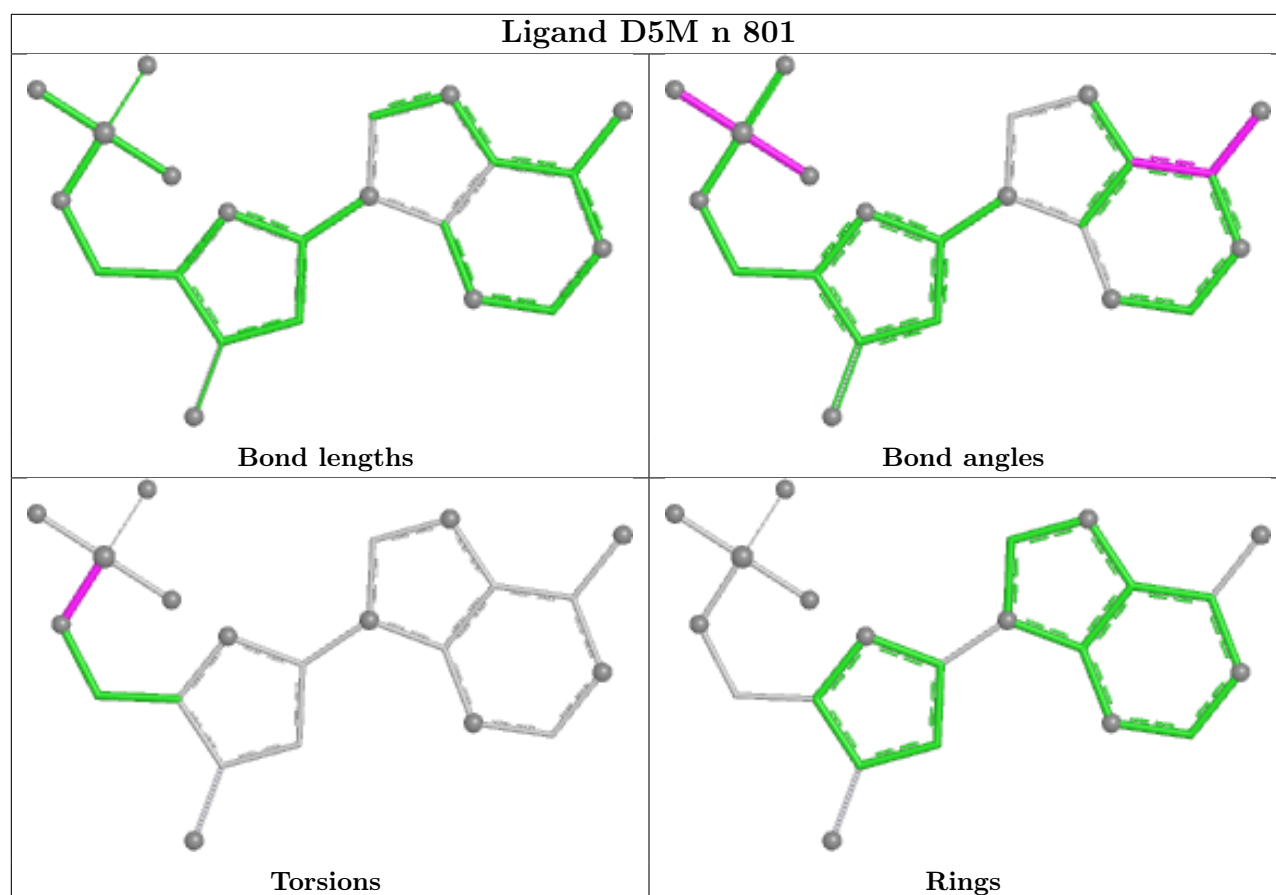


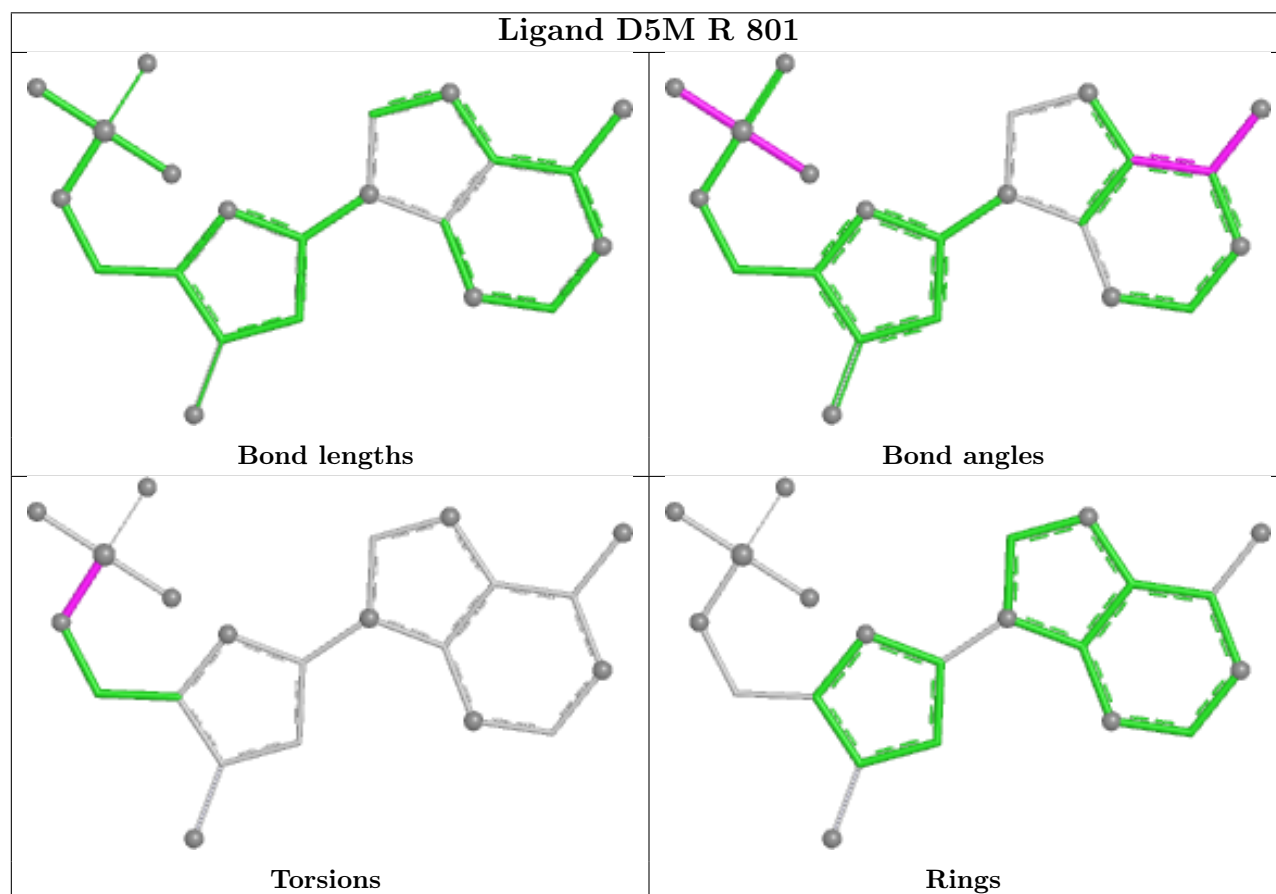
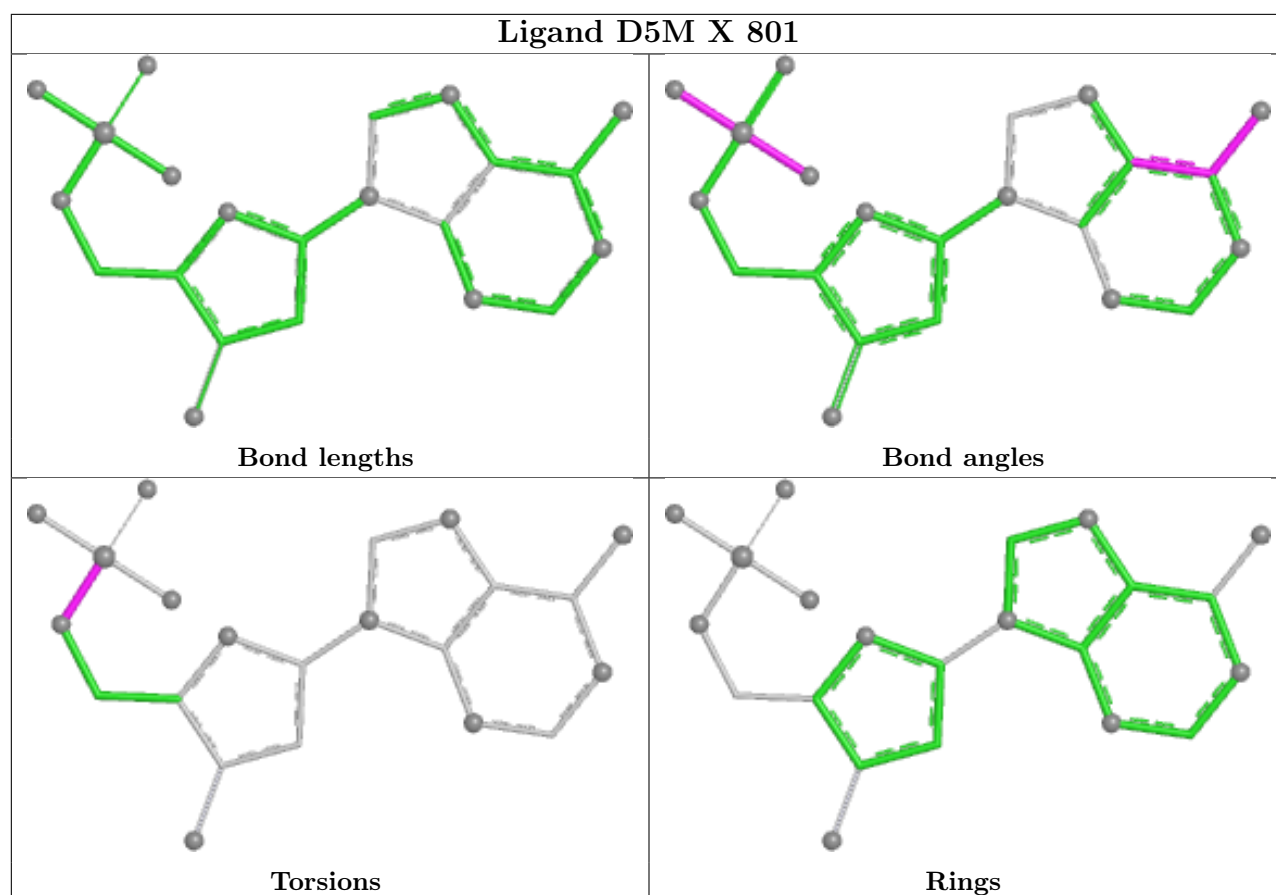


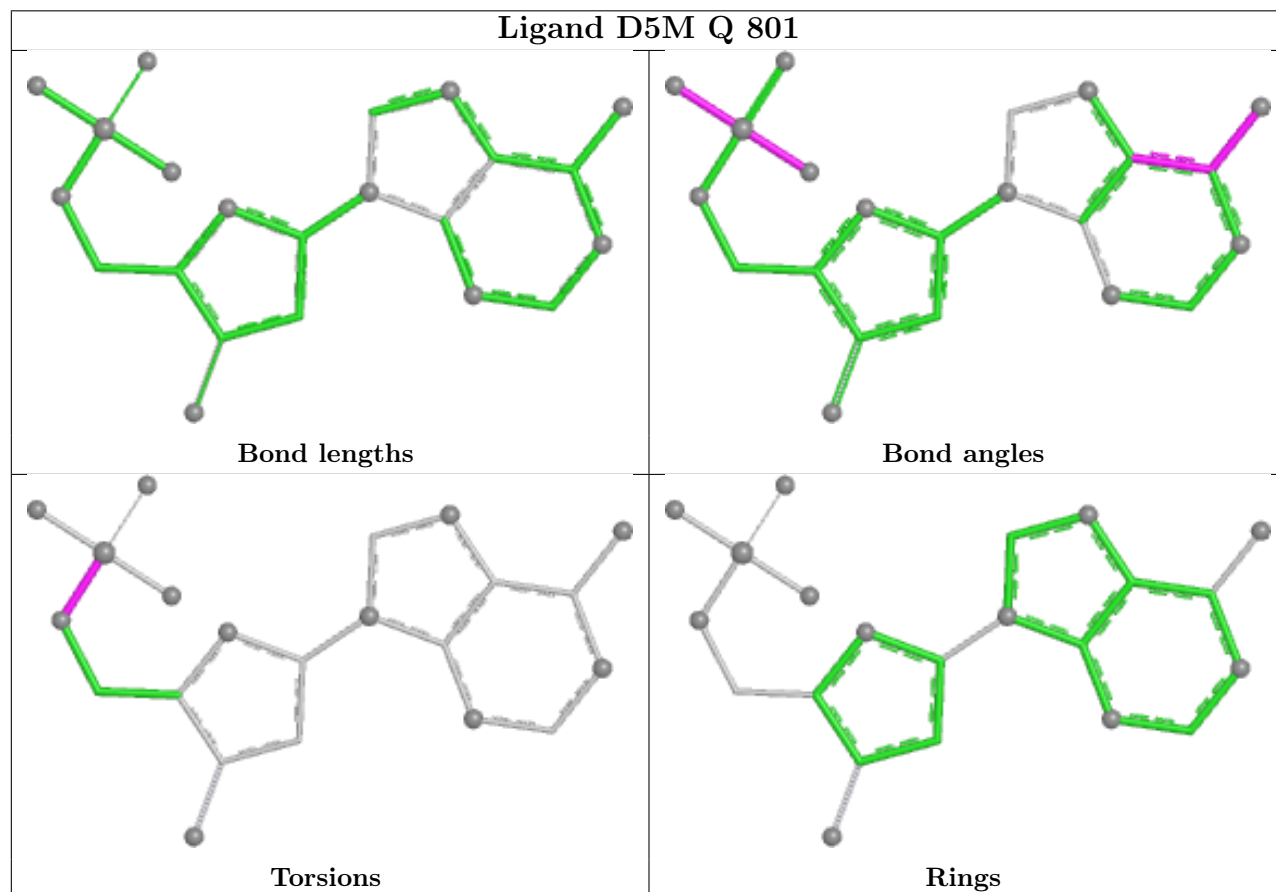
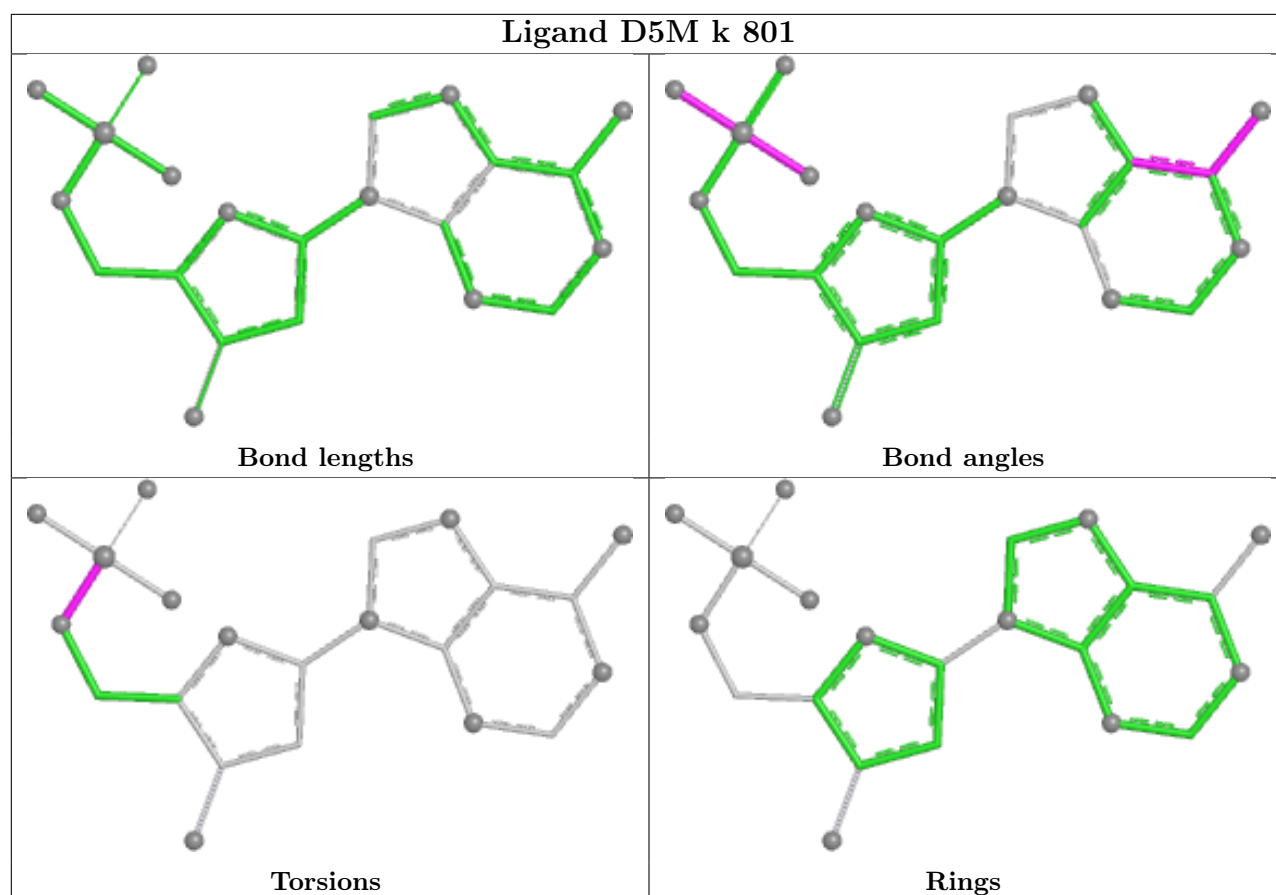


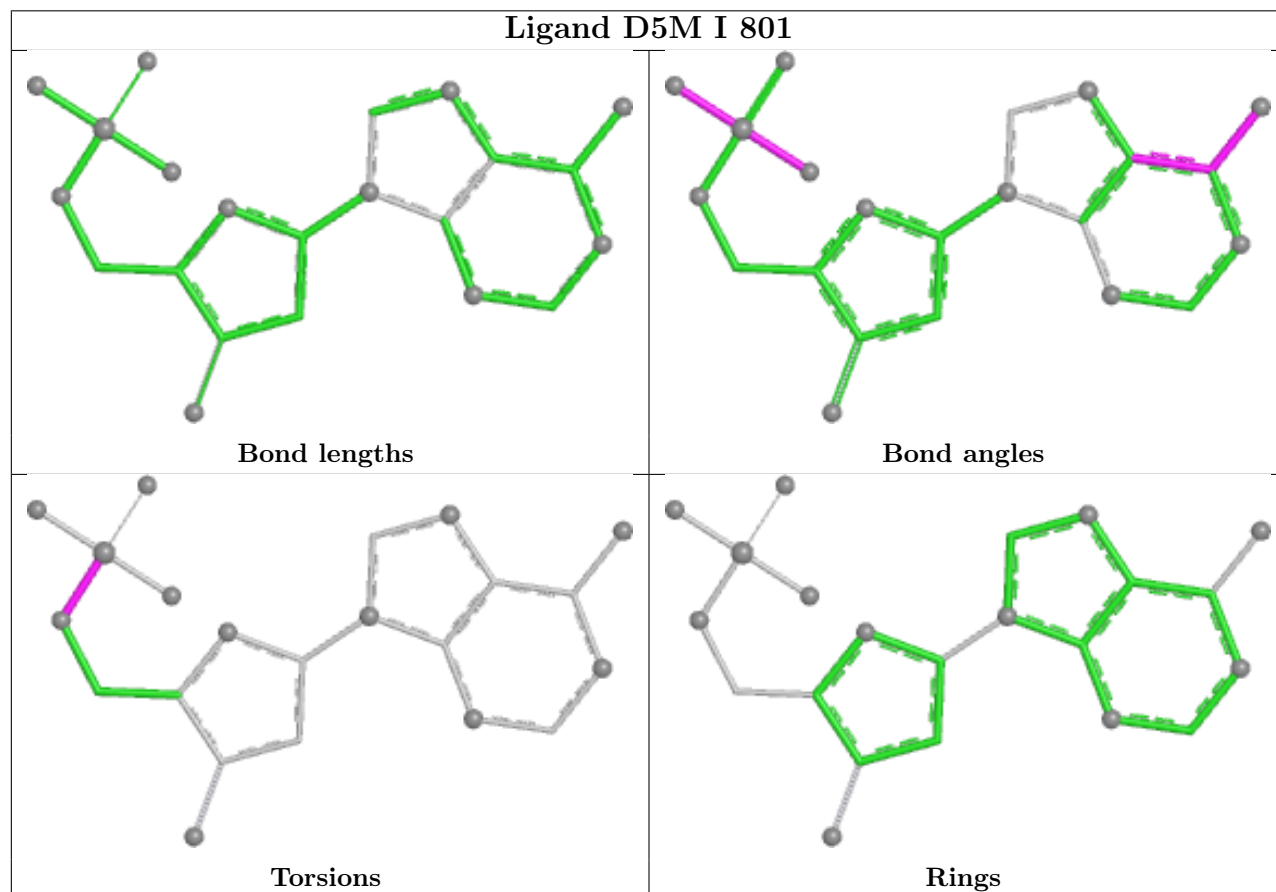
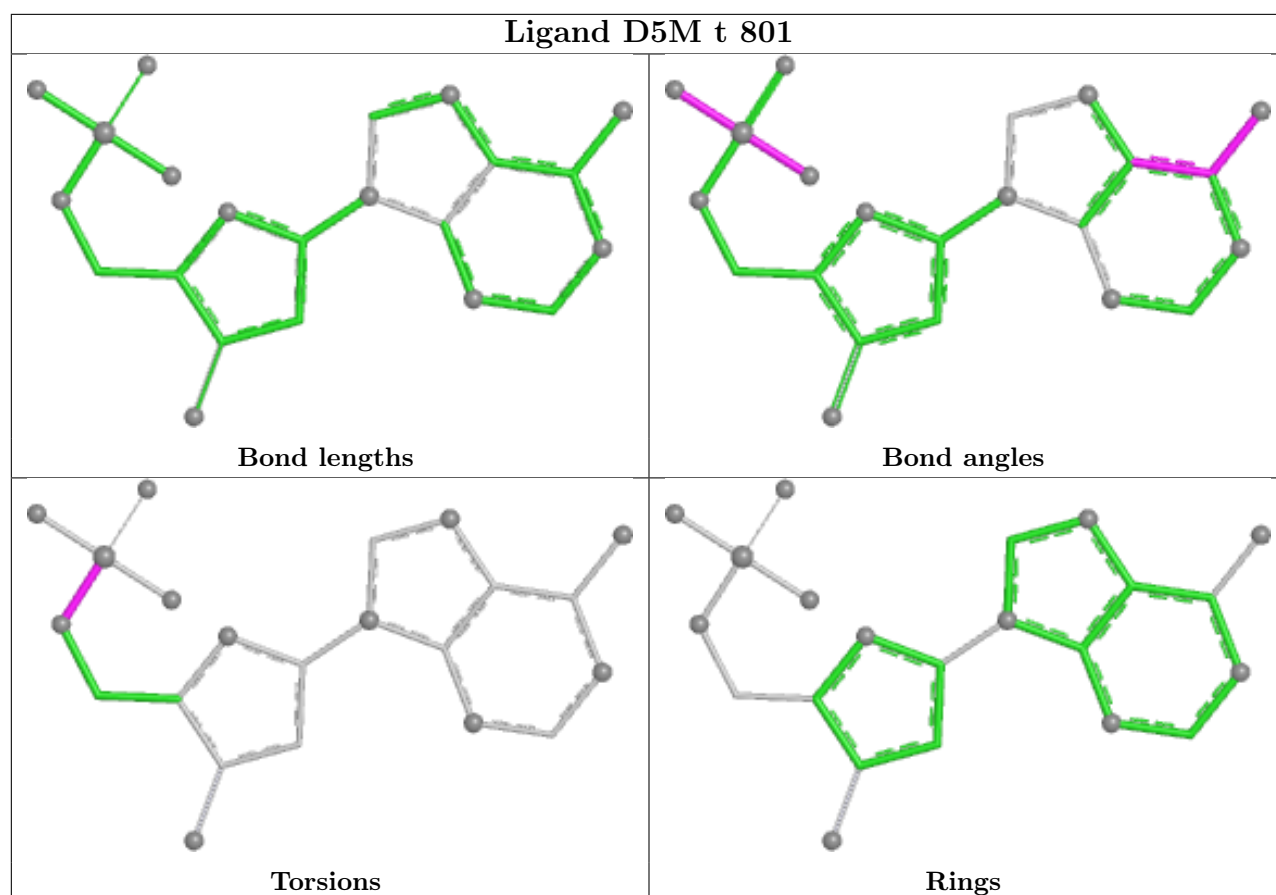


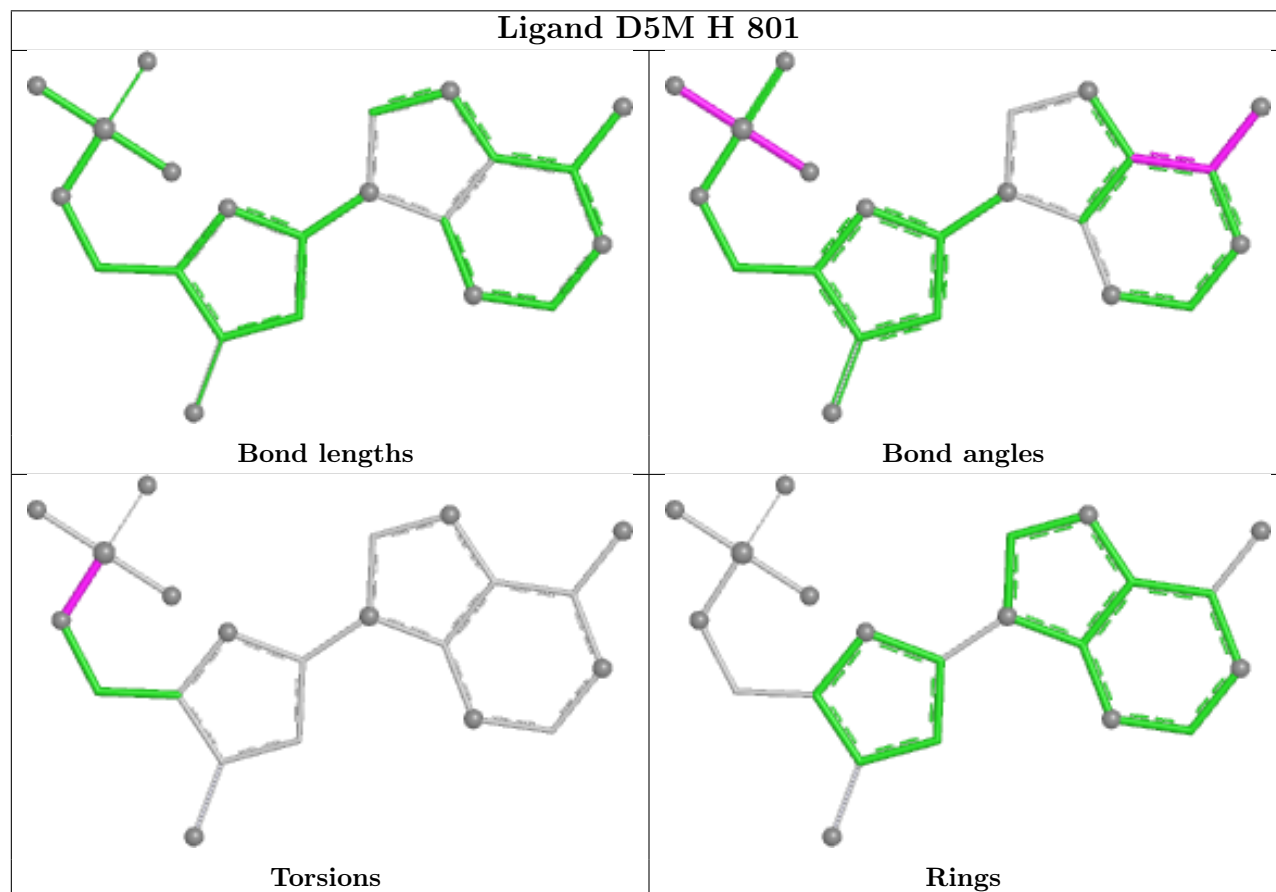
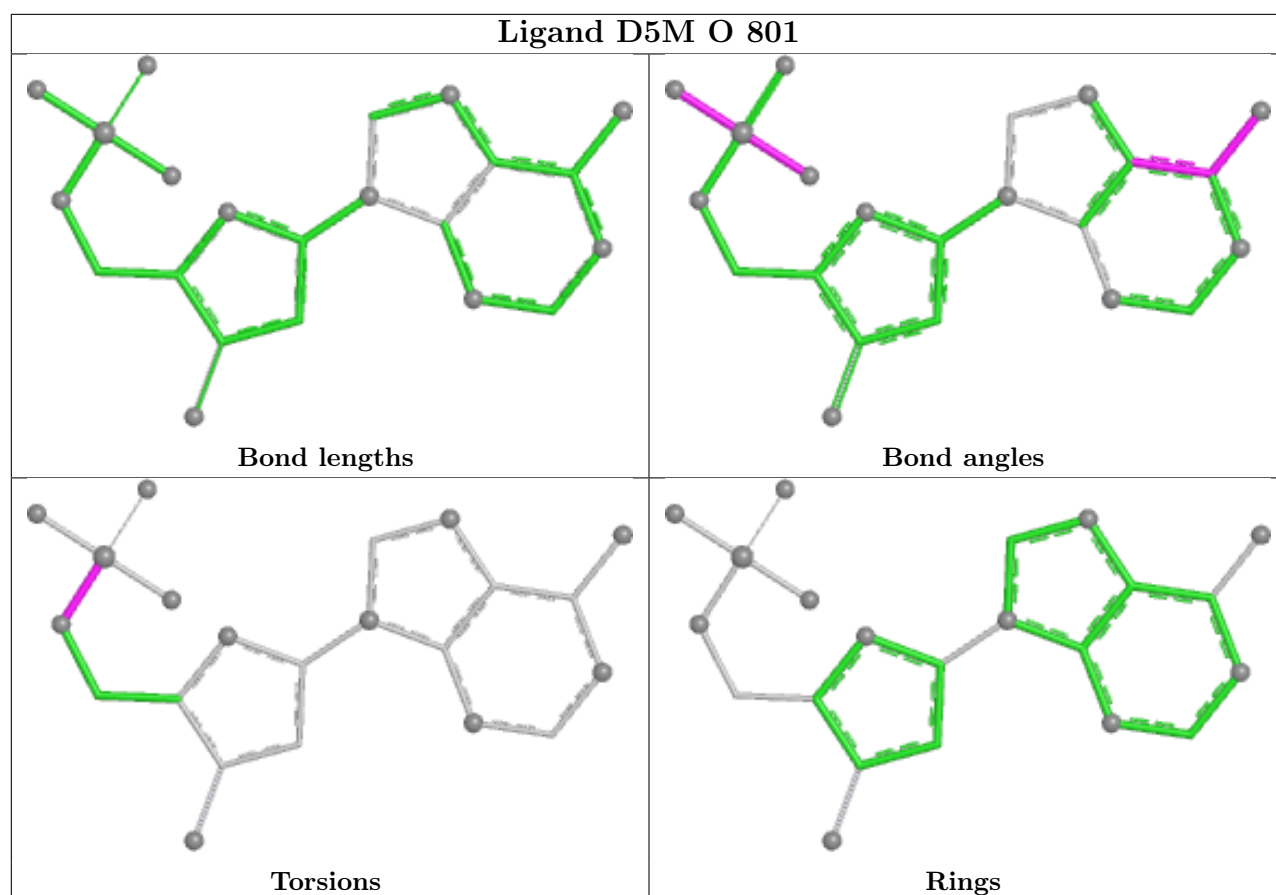


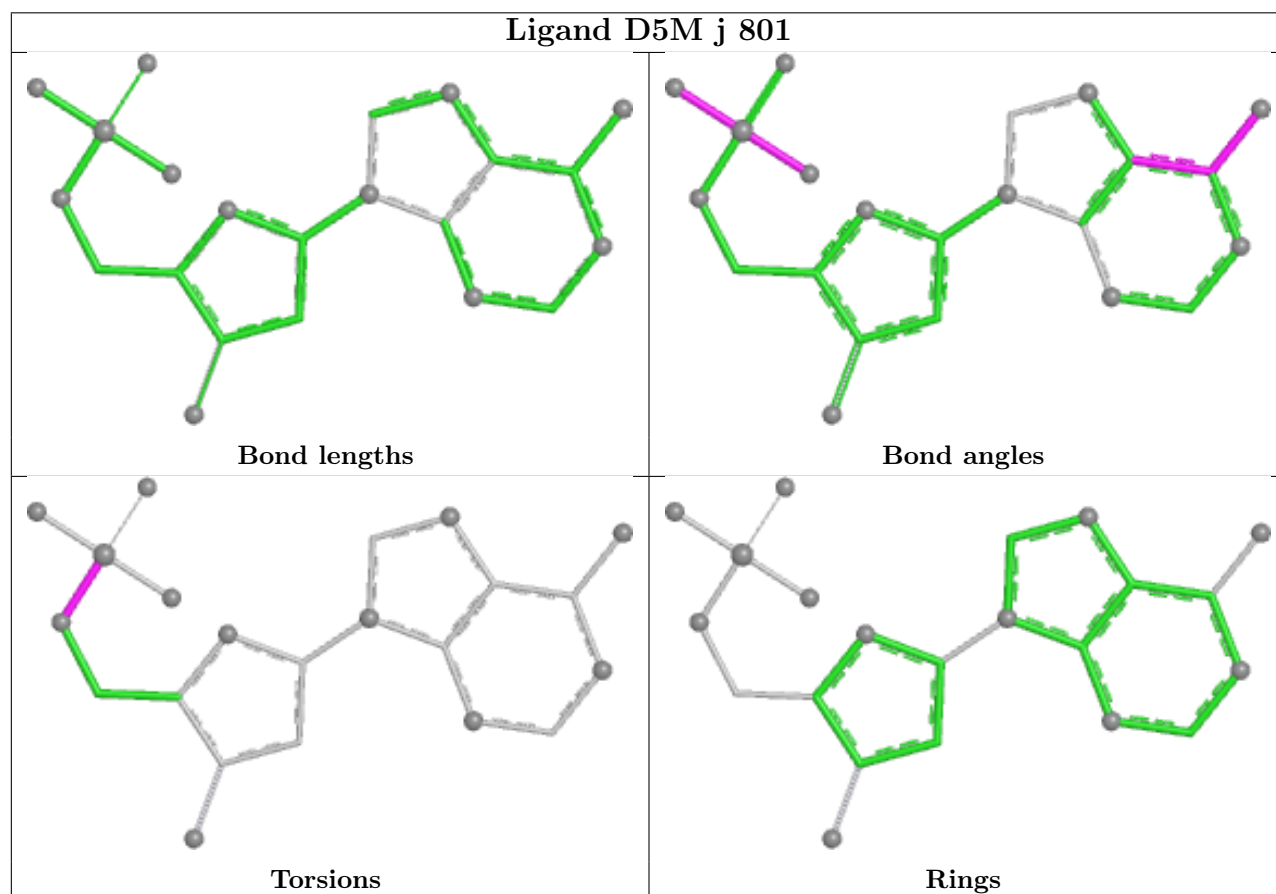
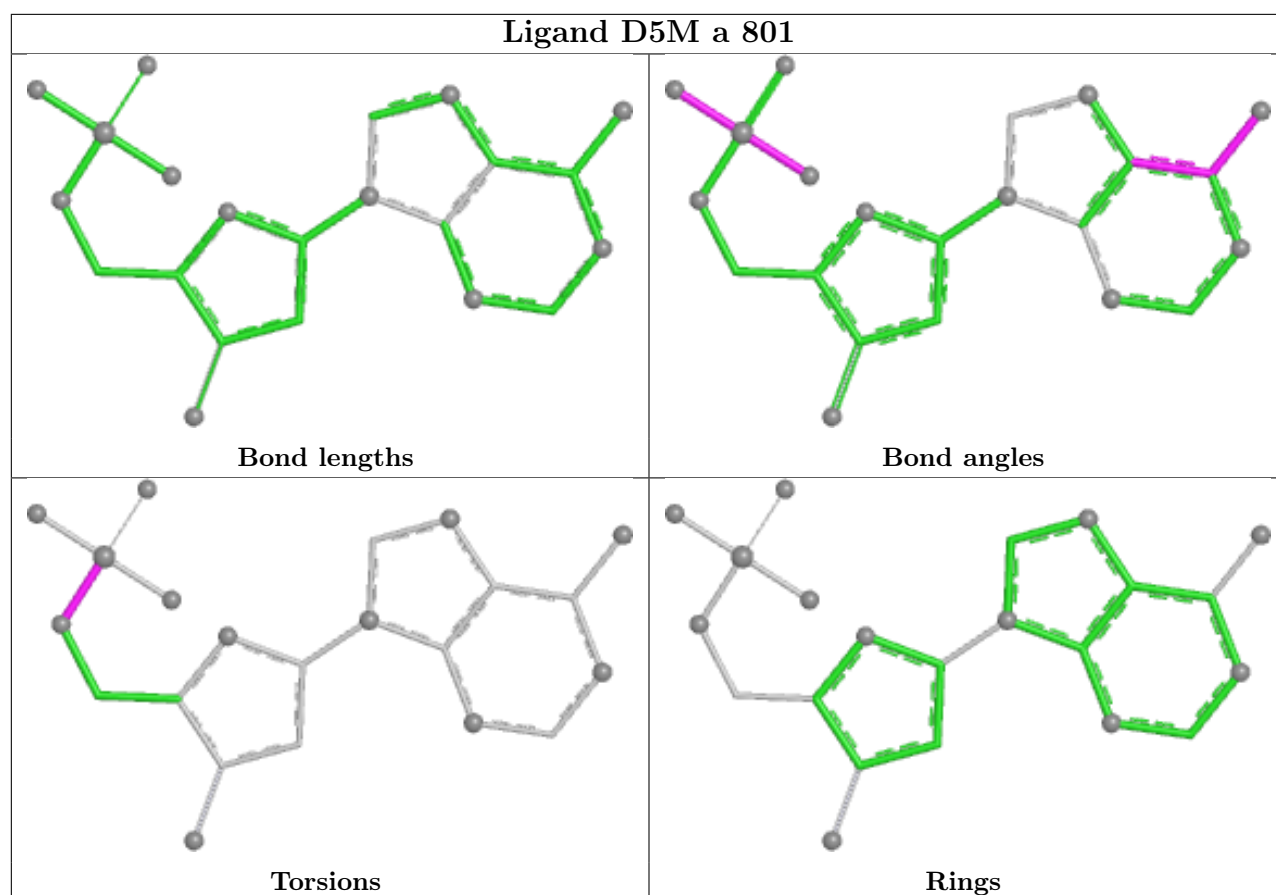


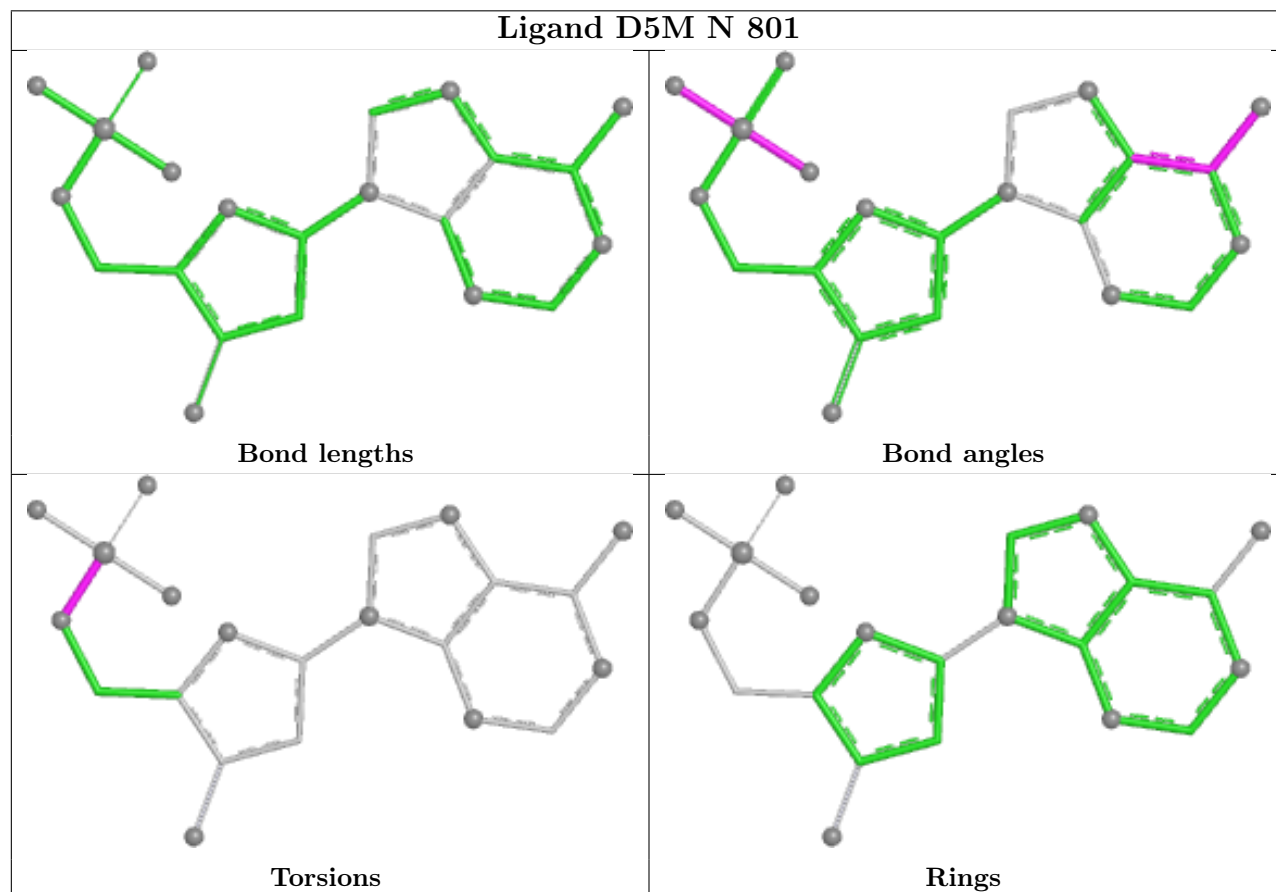
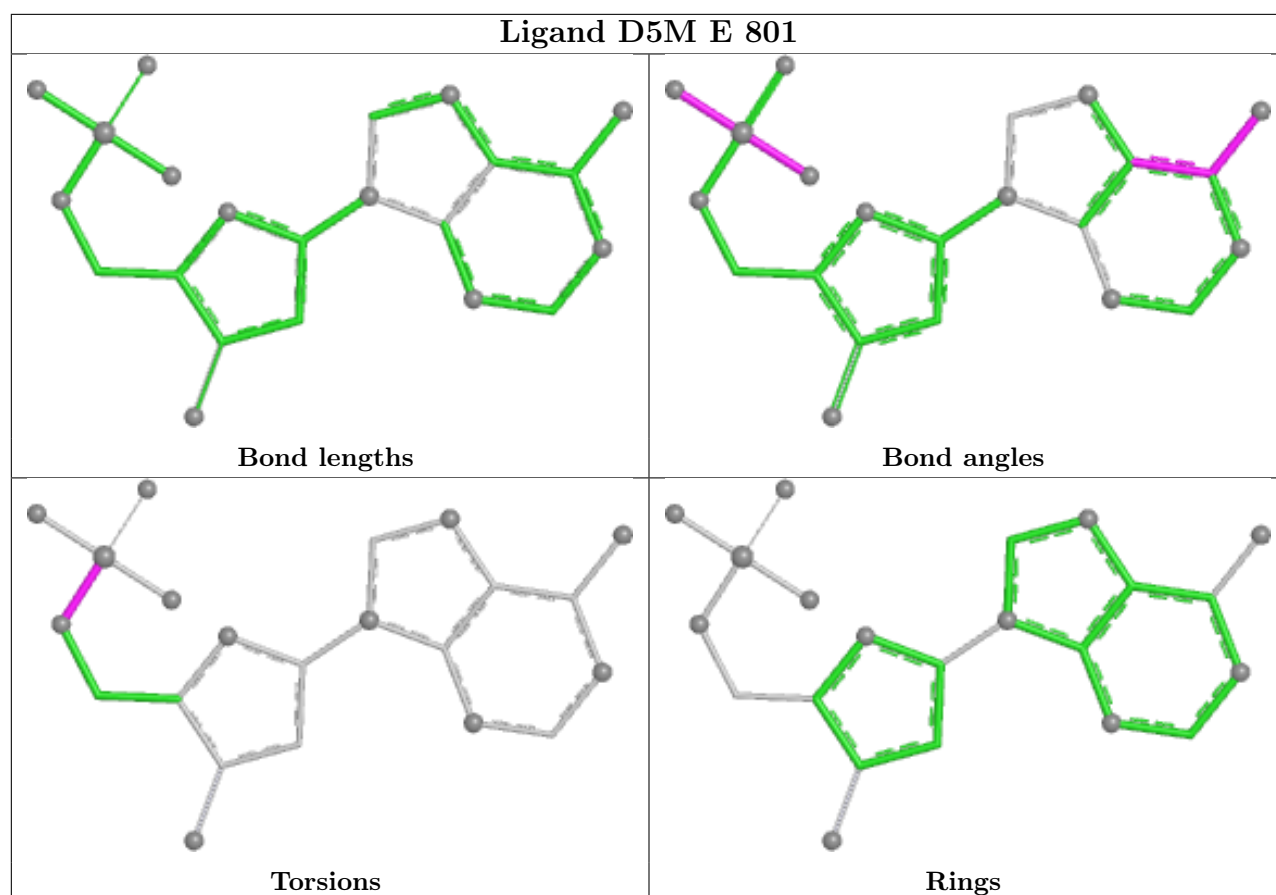


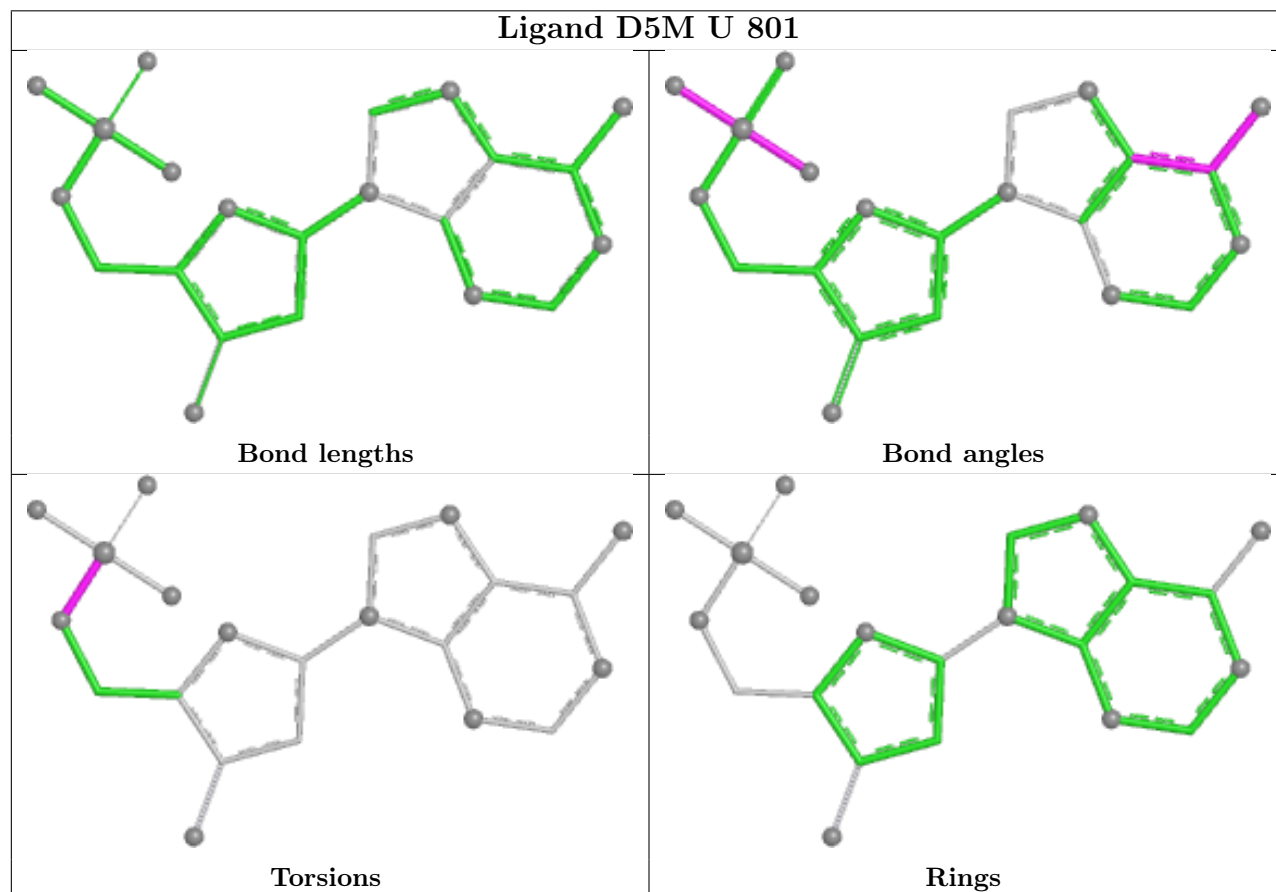
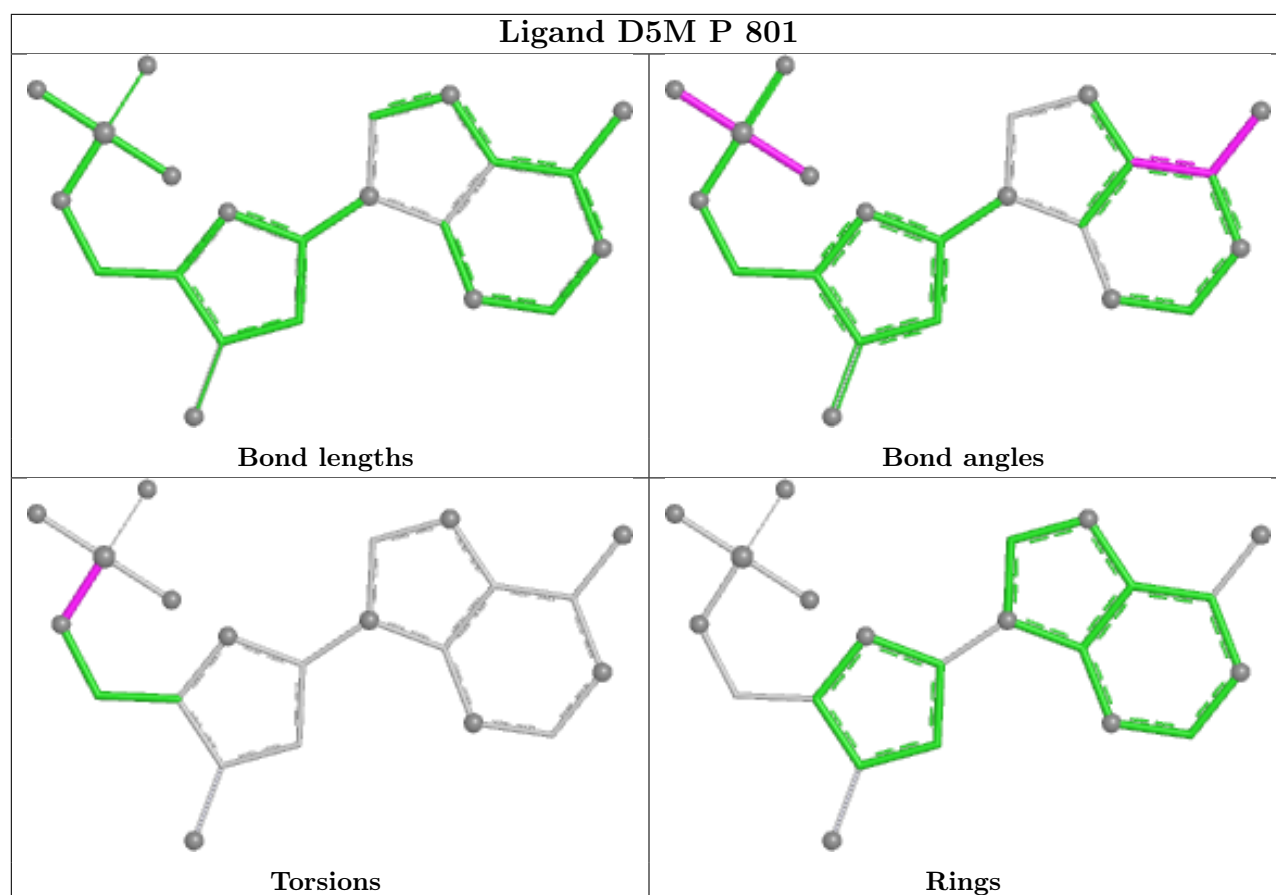


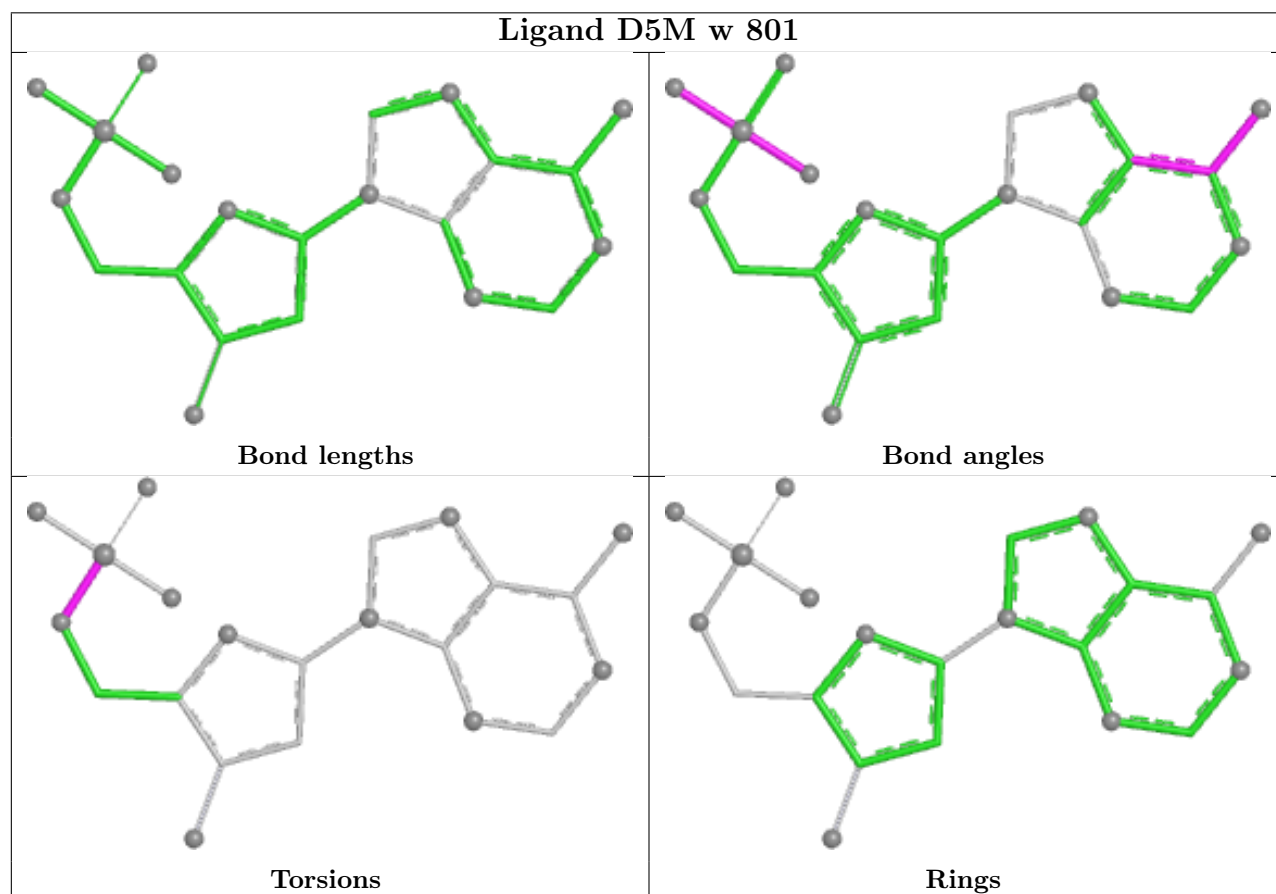
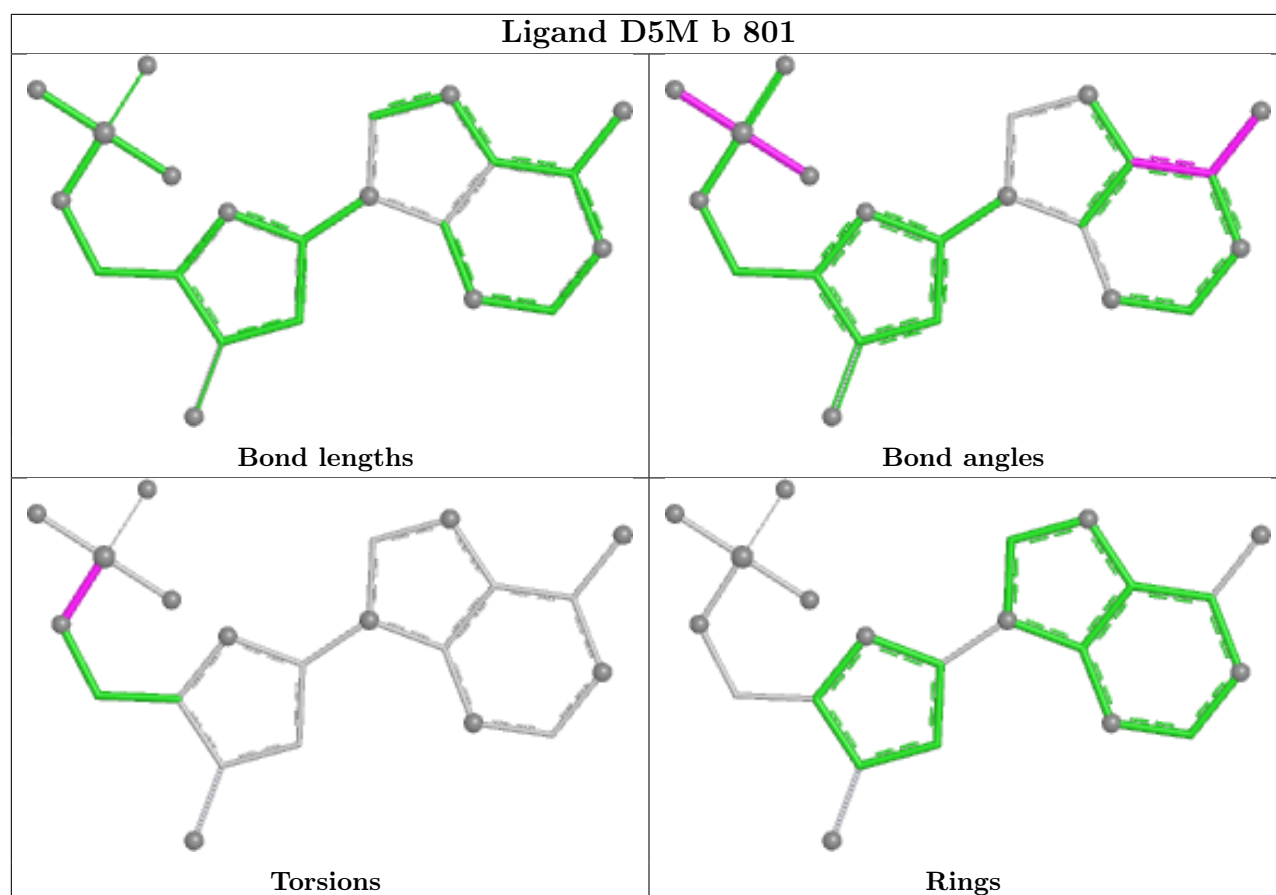


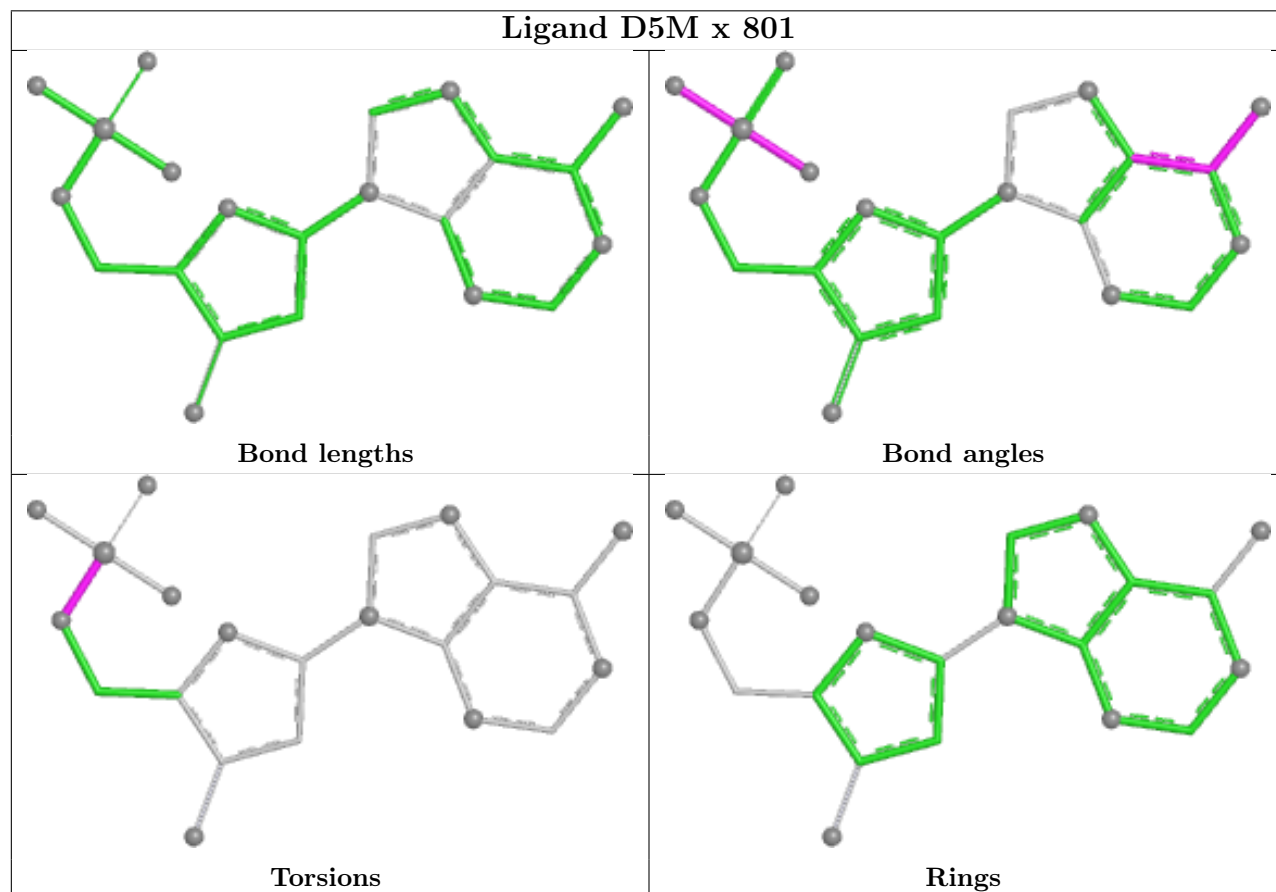
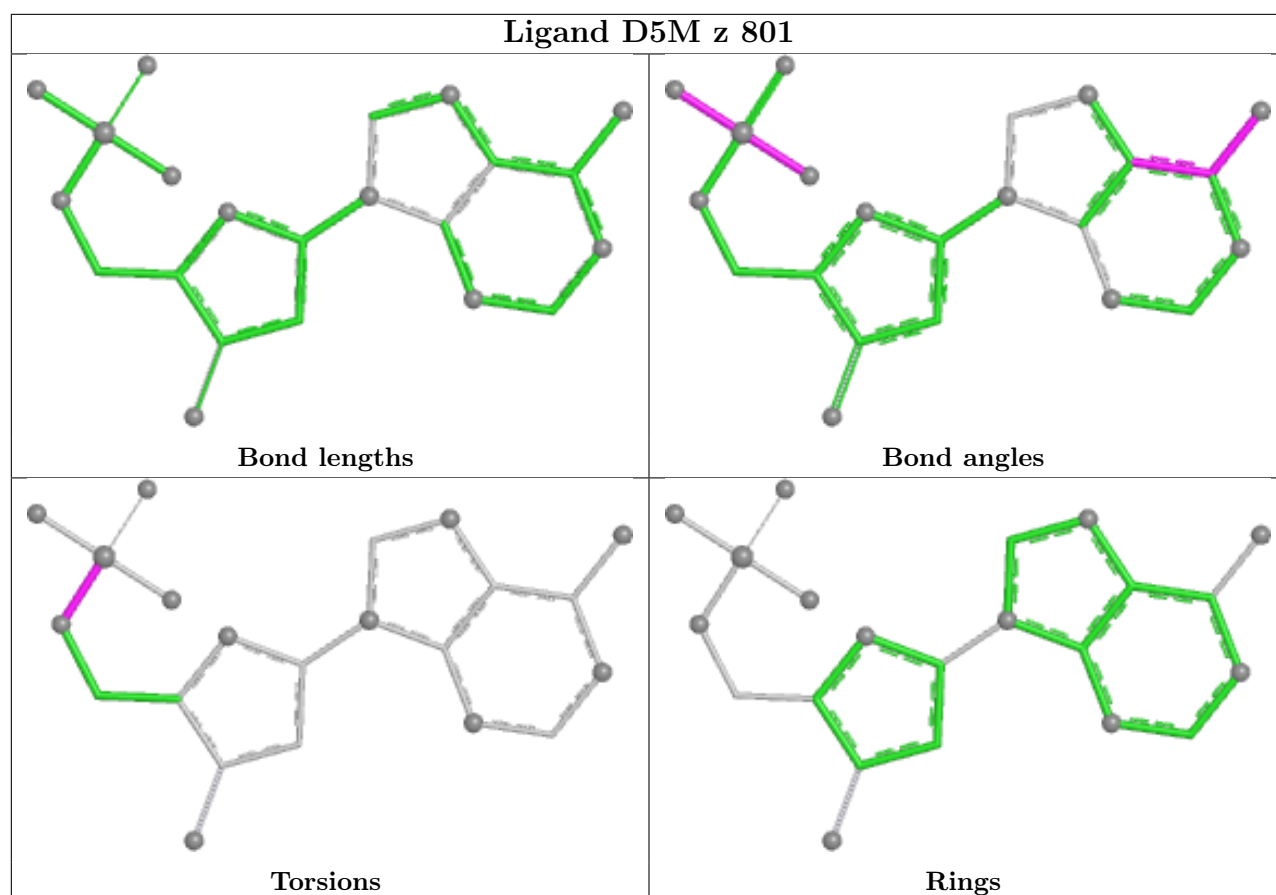


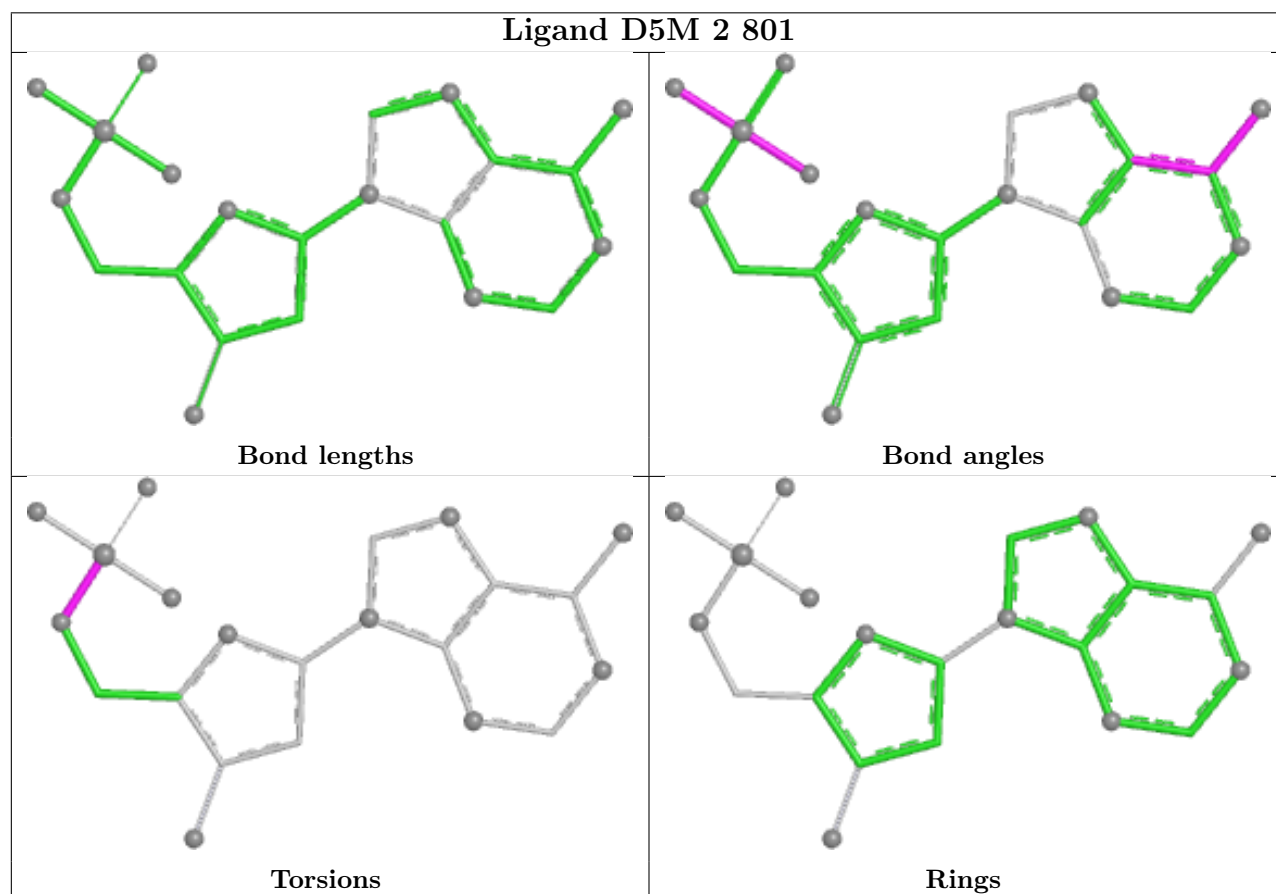
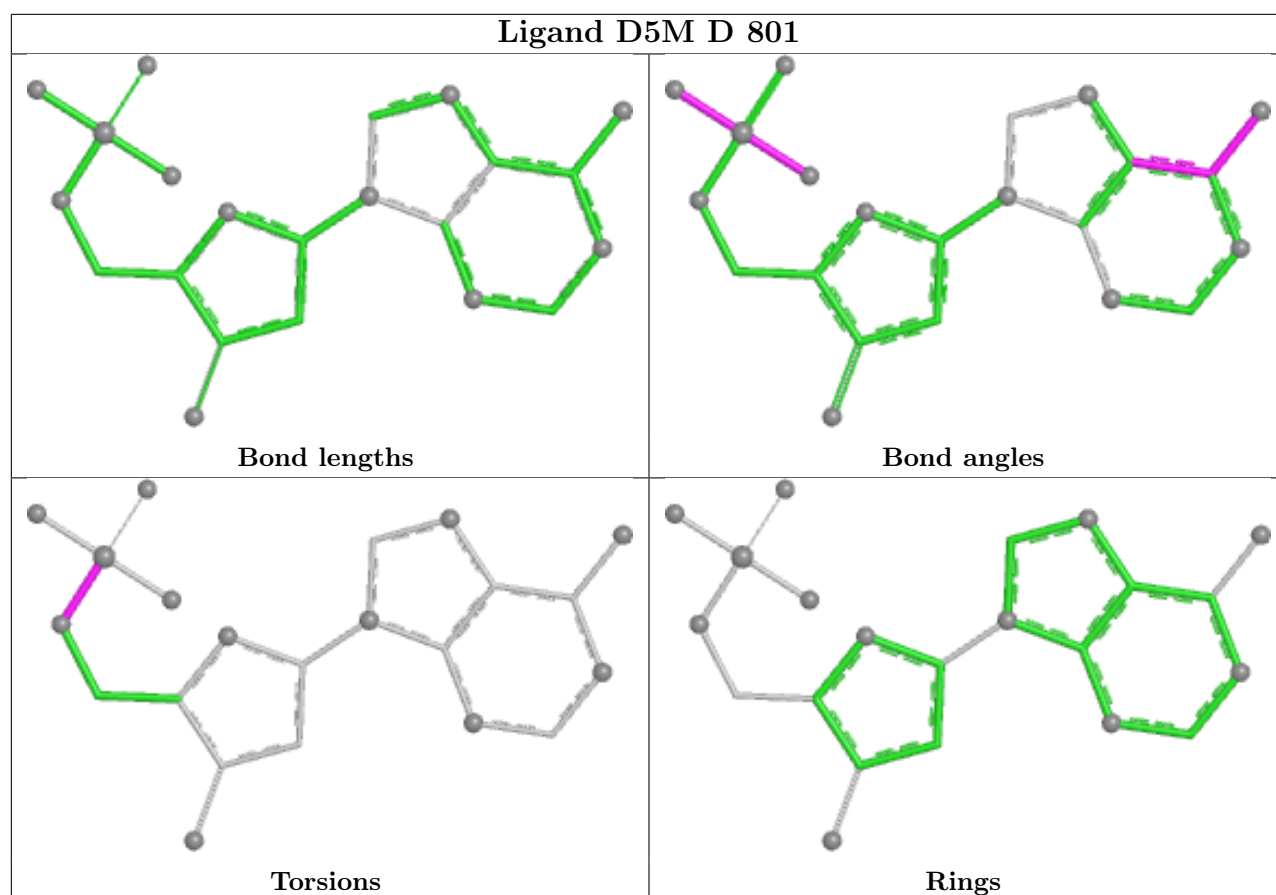




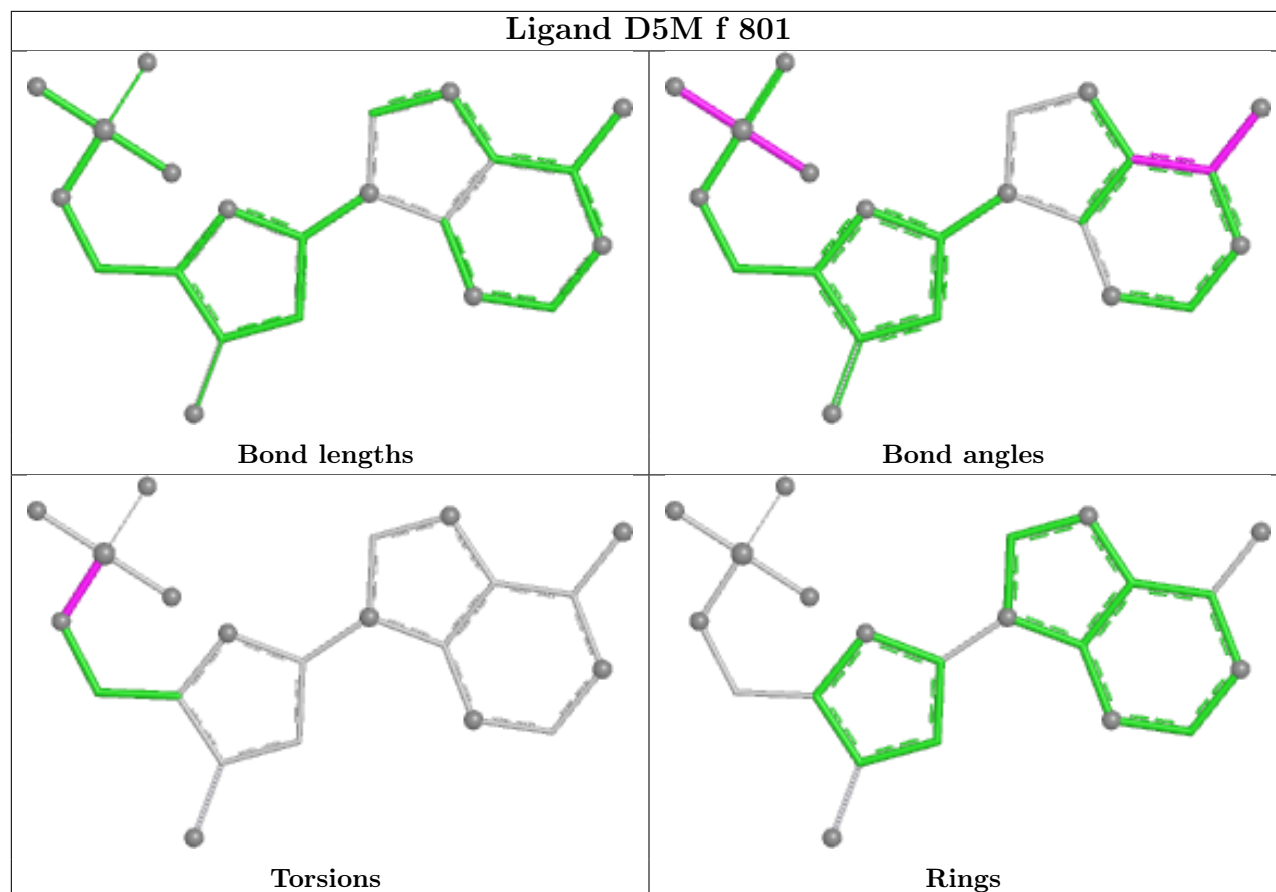




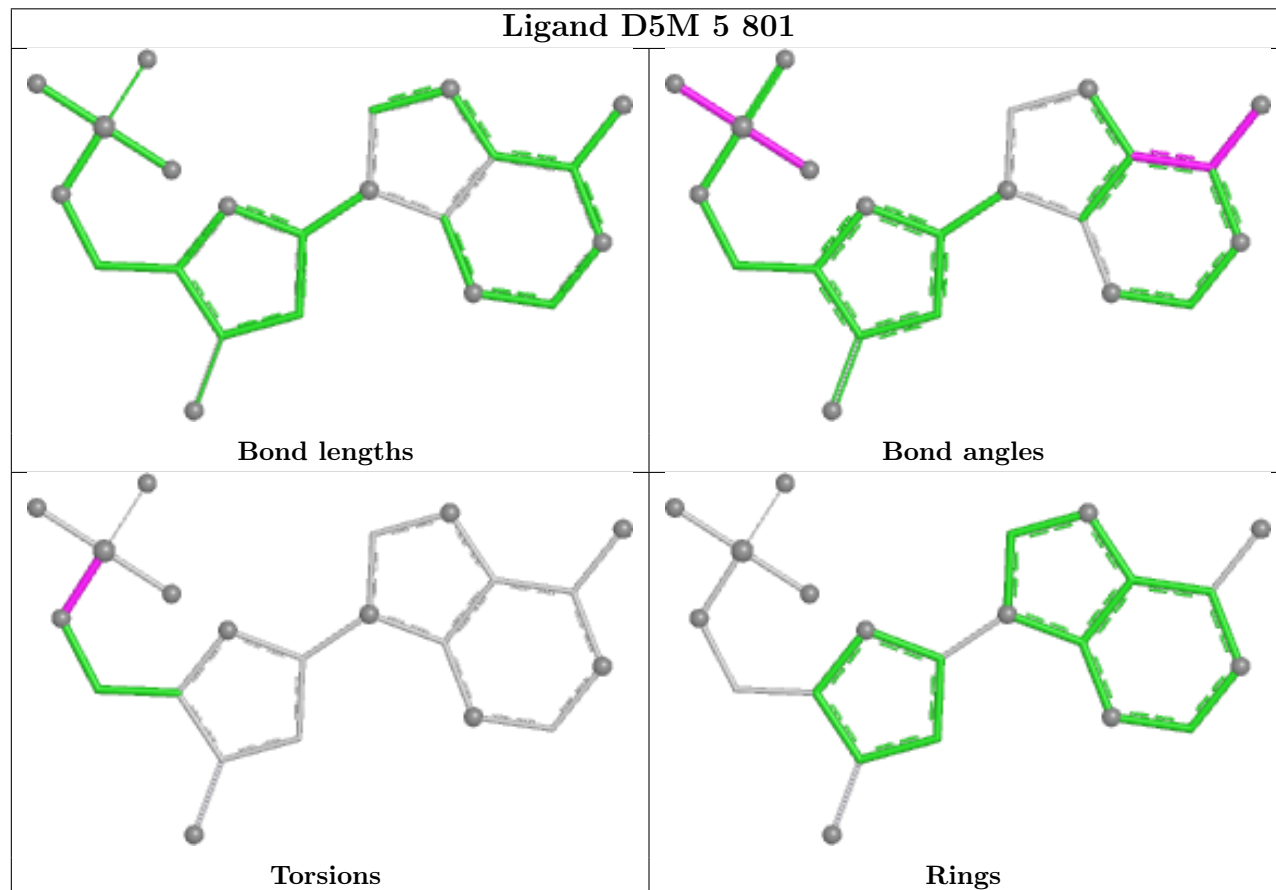


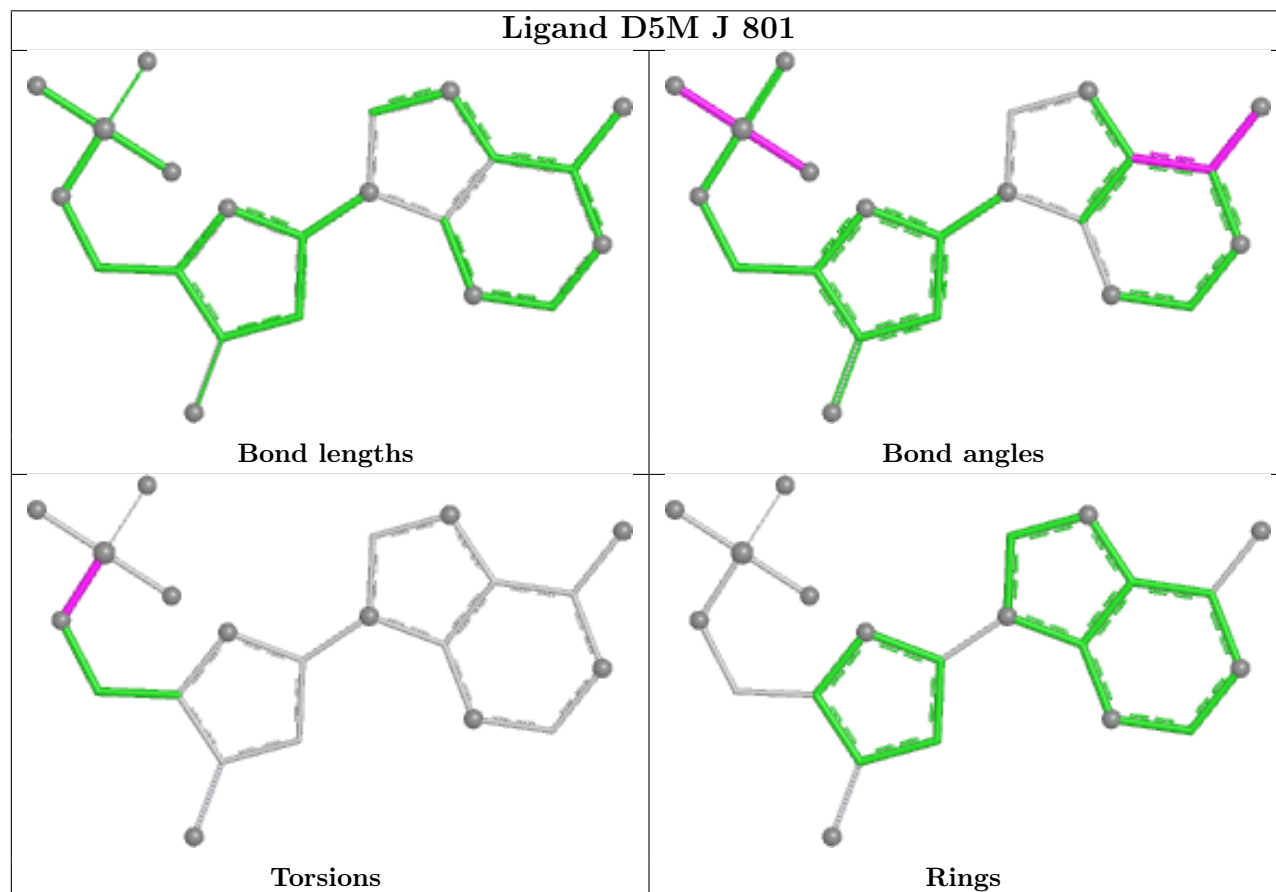
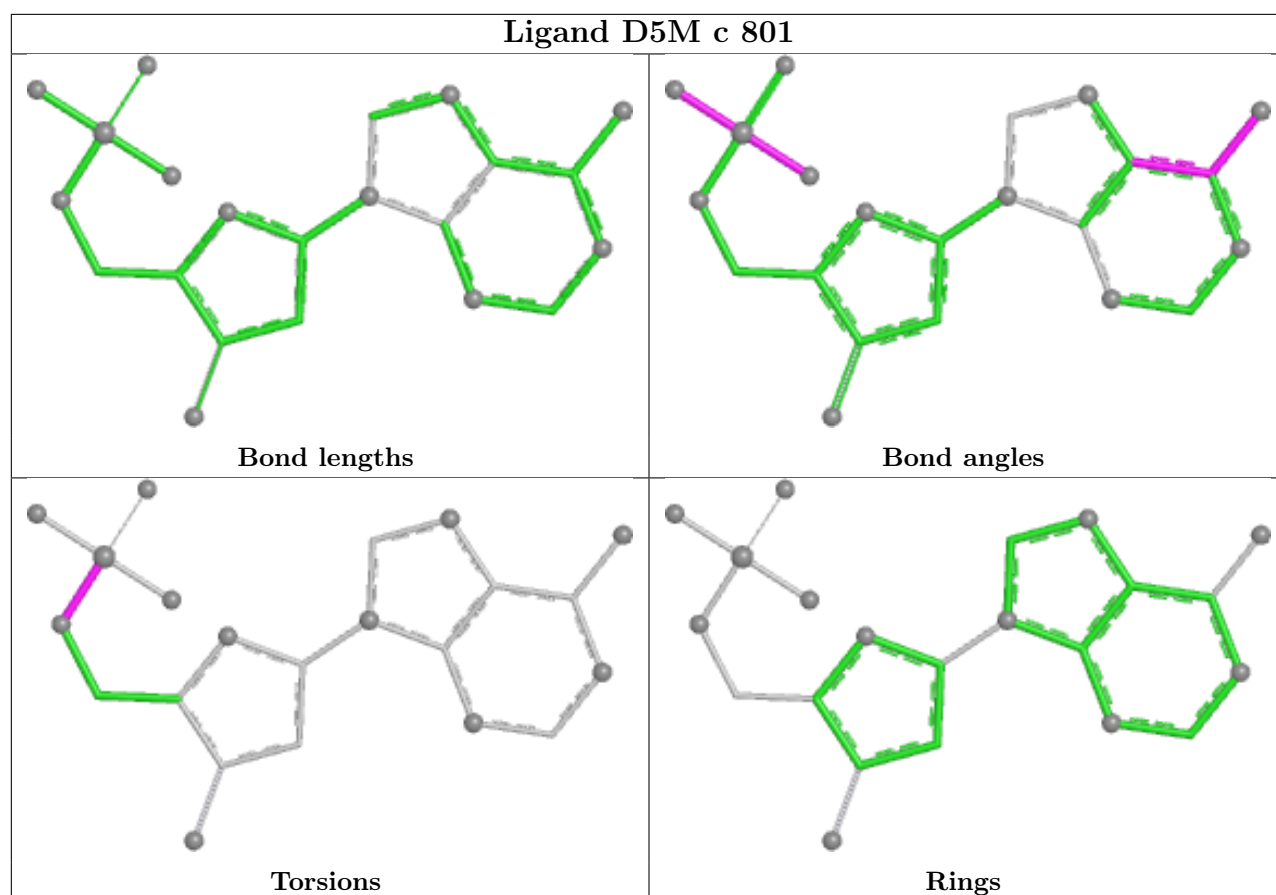


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5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

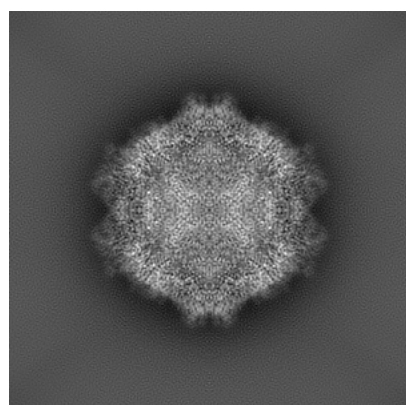
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23202. These allow visual inspection of the internal detail of the map and identification of artifacts.

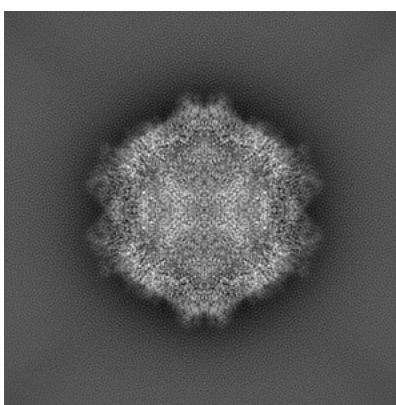
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

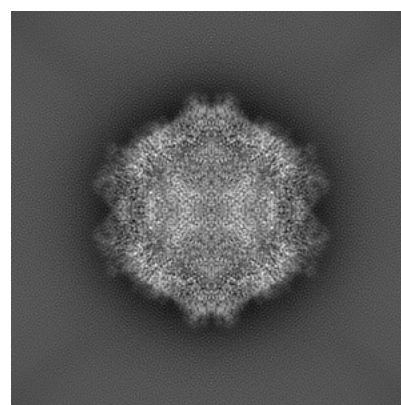
6.1.1 Primary map



X



Y

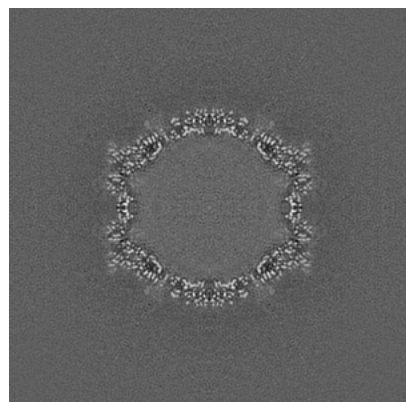


Z

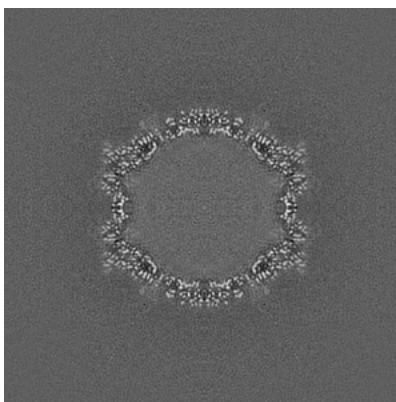
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

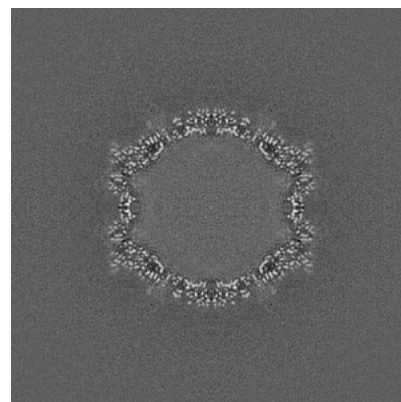
6.2.1 Primary map



X Index: 275



Y Index: 275

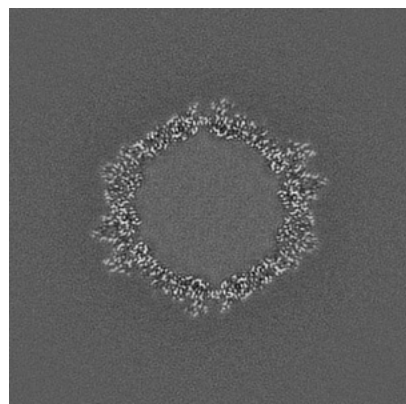


Z Index: 275

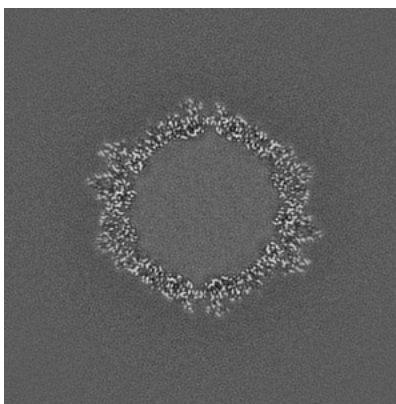
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

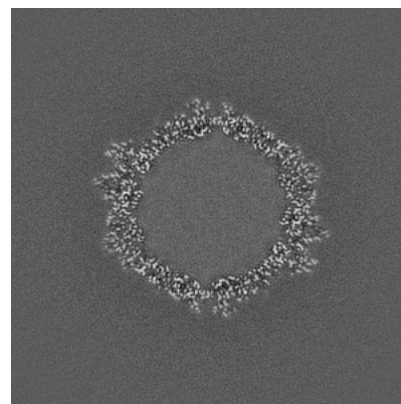
6.3.1 Primary map



X Index: 292



Y Index: 258

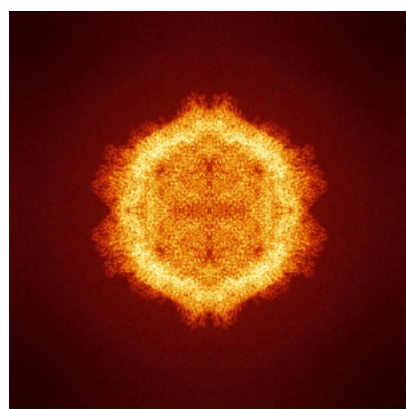


Z Index: 258

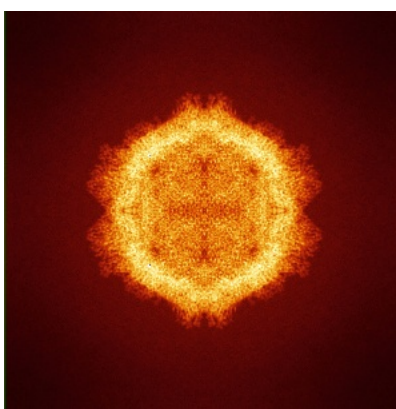
The images above show the largest variance slices of the map in three orthogonal directions.

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

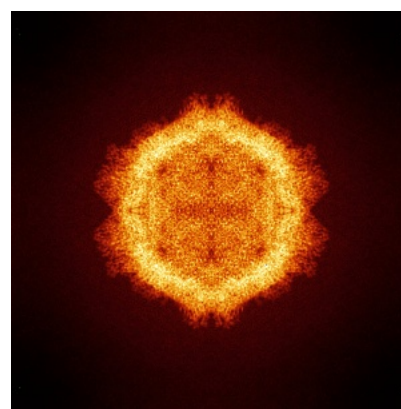
6.4.1 Primary map



X



Y

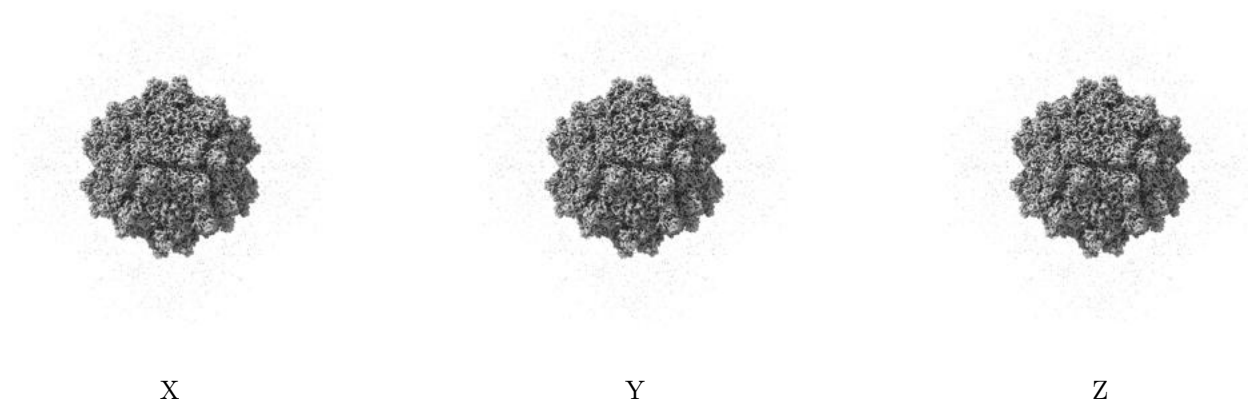


Z

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.

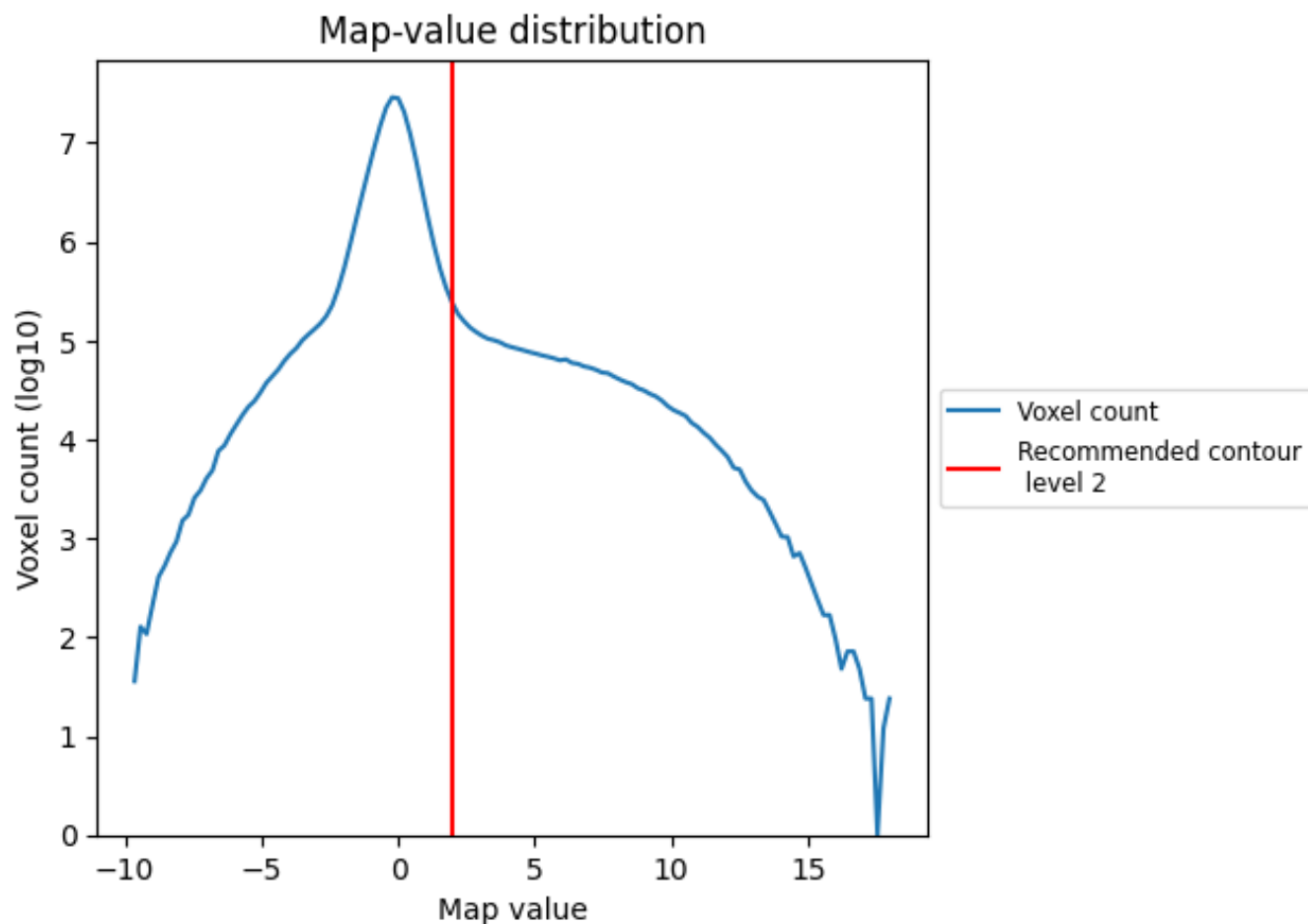
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

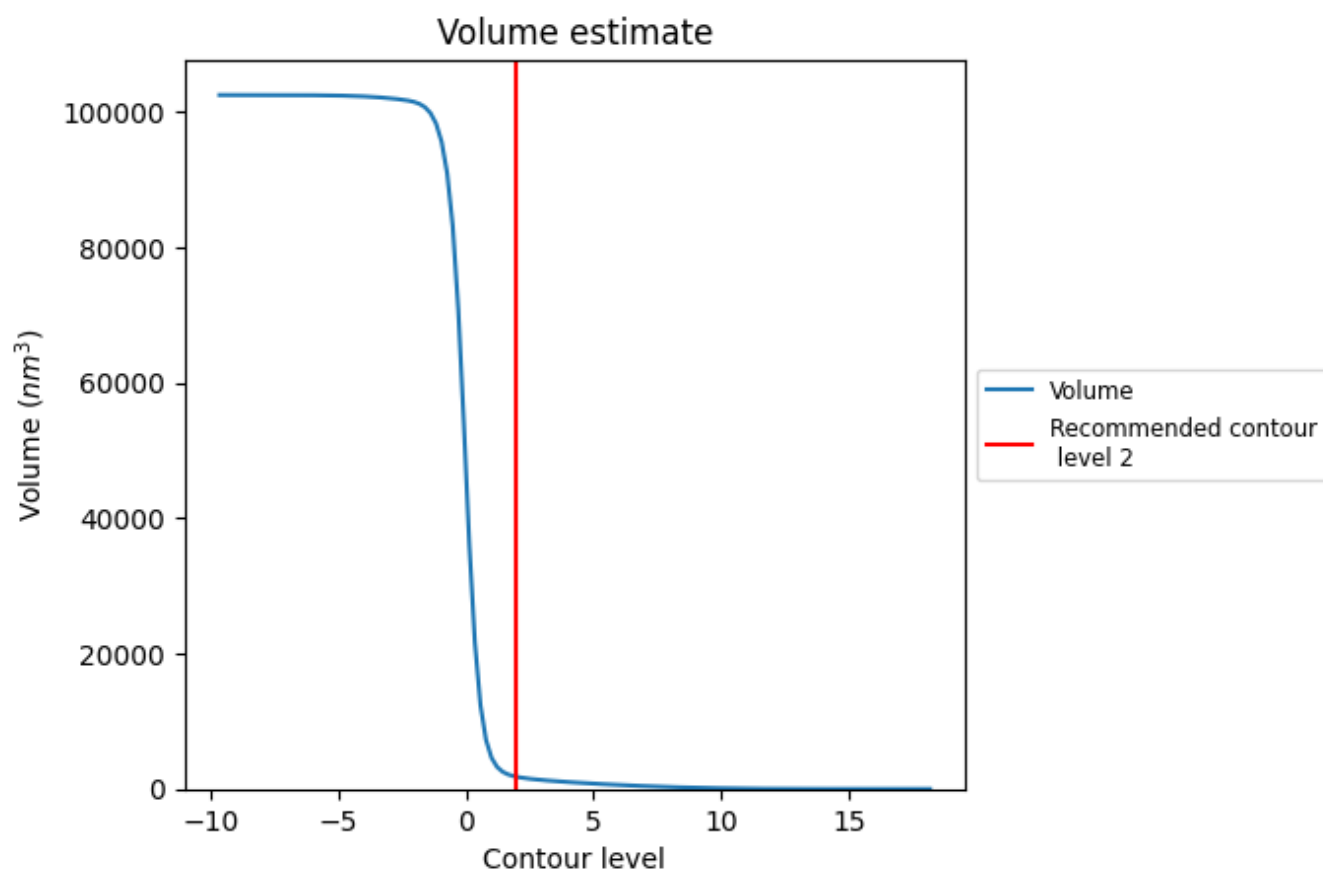
This section contains the results of statistical analysis of the map.

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.

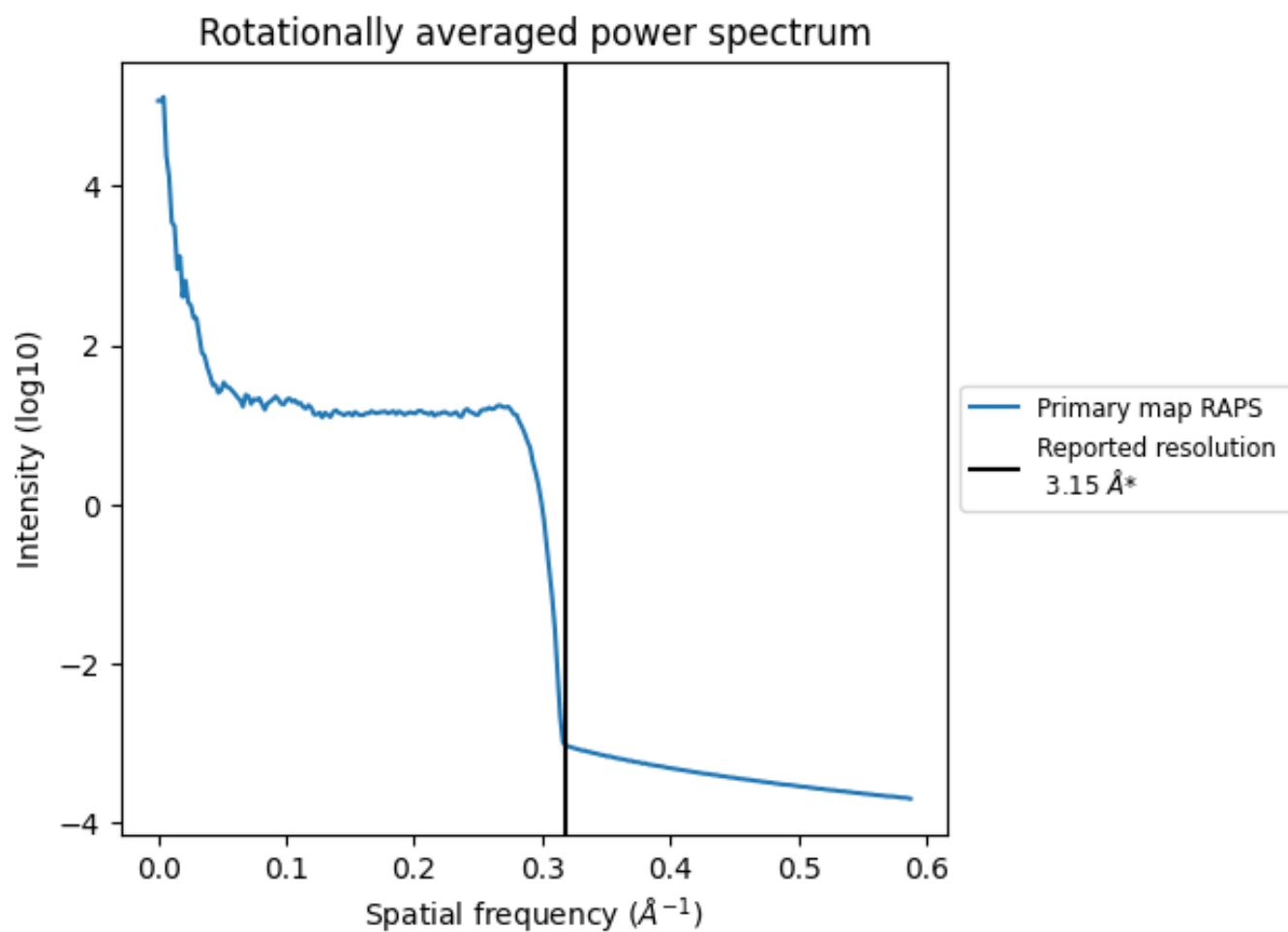
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1797 nm^3 ; this corresponds to an approximate mass of 1623 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 0.317 Å⁻¹

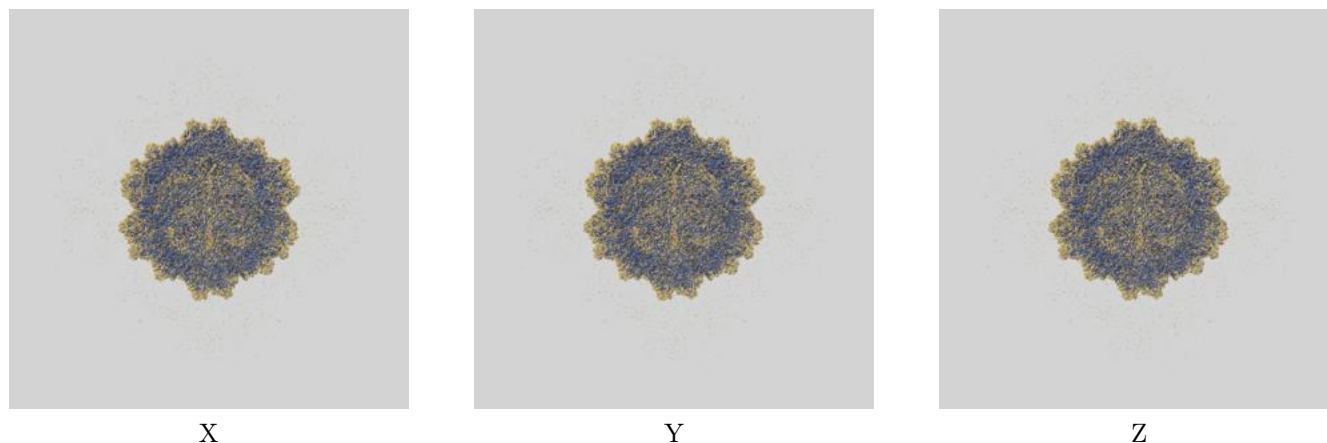
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

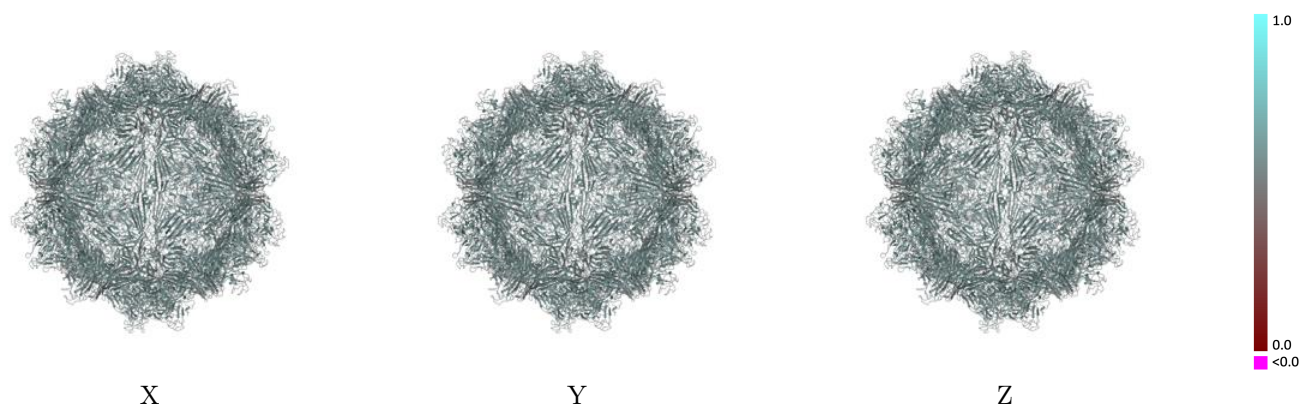
This section contains information regarding the fit between EMDB map EMD-23202 and PDB model 7L6E. Per-residue inclusion information can be found in [section 3](#) on [page 13](#).

9.1 Map-model overlay [i](#)



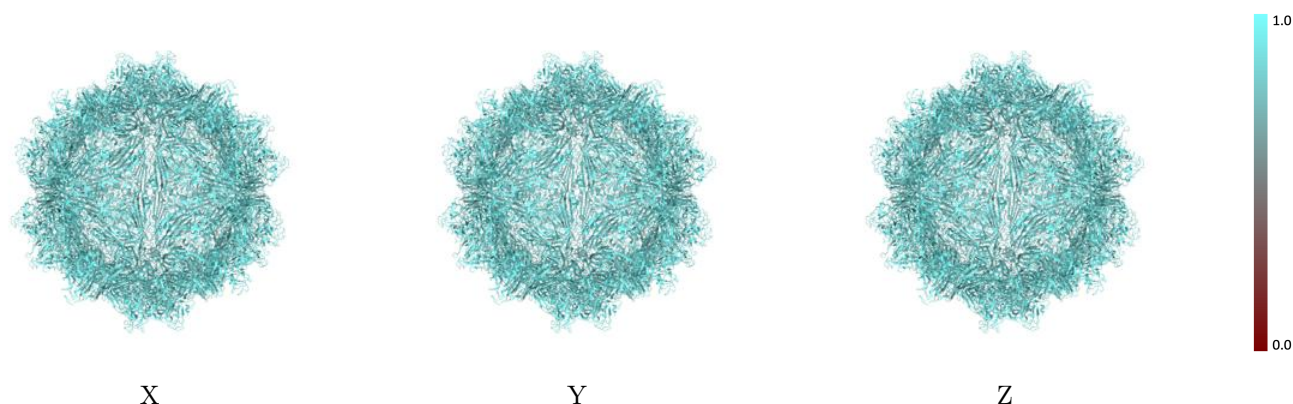
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



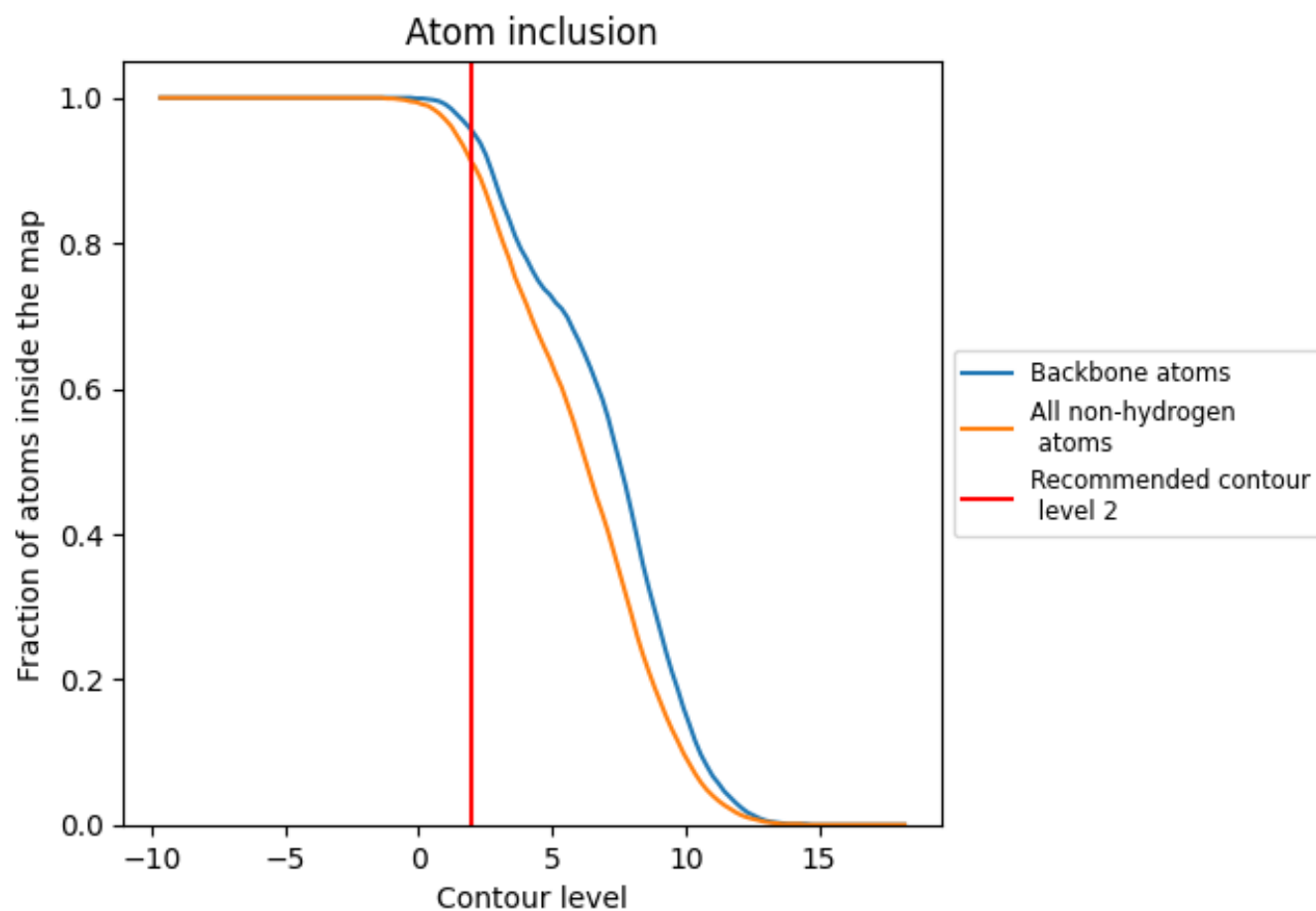
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 96% of all backbone atoms, 91% 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	 0.9110	 0.5610
1	 0.9110	 0.5620
2	 0.9120	 0.5610
3	 0.9130	 0.5610
4	 0.9110	 0.5610
5	 0.9120	 0.5620
6	 0.9110	 0.5600
7	 0.9120	 0.5610
8	 0.9100	 0.5610
A	 0.9130	 0.5600
B	 0.9110	 0.5600
C	 0.9110	 0.5620
D	 0.9110	 0.5610
E	 0.9100	 0.5600
F	 0.9130	 0.5610
G	 0.9100	 0.5590
H	 0.9120	 0.5610
I	 0.9110	 0.5600
J	 0.9120	 0.5610
K	 0.9110	 0.5610
L	 0.9110	 0.5620
M	 0.9110	 0.5610
N	 0.9120	 0.5610
O	 0.9100	 0.5610
P	 0.9120	 0.5600
Q	 0.9110	 0.5610
R	 0.9110	 0.5620
S	 0.9120	 0.5620
T	 0.9110	 0.5610
U	 0.9110	 0.5620
V	 0.9110	 0.5600
W	 0.9110	 0.5610
X	 0.9110	 0.5600
Y	 0.9120	 0.5610
Z	 0.9100	 0.5610



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Chain	Atom inclusion	Q-score
a	 0.9130	 0.5620
b	 0.9130	 0.5610
c	 0.9130	 0.5620
d	 0.9130	 0.5620
e	 0.9130	 0.5610
f	 0.9130	 0.5610
g	 0.9110	 0.5610
h	 0.9110	 0.5610
i	 0.9120	 0.5620
j	 0.9130	 0.5610
k	 0.9110	 0.5620
l	 0.9100	 0.5610
m	 0.9110	 0.5610
n	 0.9130	 0.5620
o	 0.9110	 0.5600
p	 0.9110	 0.5610
q	 0.9110	 0.5610
r	 0.9120	 0.5610
s	 0.9110	 0.5610
t	 0.9100	 0.5600
u	 0.9110	 0.5600
v	 0.9130	 0.5600
w	 0.9100	 0.5580
x	 0.9110	 0.5600
y	 0.9130	 0.5600
z	 0.9110	 0.5610