Full wwPDB EM Validation Report ⓘ

May 27, 2025 – 12:17 AM EDT

PDB ID	:	7L6A / pdb_0000716a
EMDB ID	:	EMD-23200
Title	:	The genome-containing AAV12 capsid
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2020-12-23
Resolution	:	2.67 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:

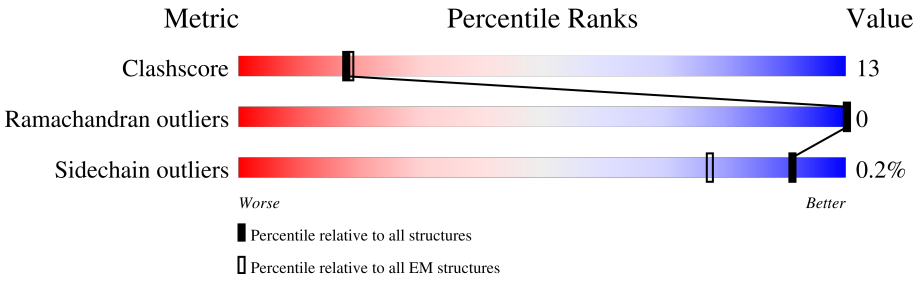
EMDB validation analysis	:	0.0.1.dev118
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0rc1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal 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 2.67 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 <=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	72% 28%
1	2	521	71% 29%
1	3	521	72% 28%
1	4	521	72% 28%
1	5	521	72% 27%
1	6	521	71% 28%
1	7	521	72% 28%
1	8	521	72% 27%

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Mol	Chain	Length	Quality of chain
1	A	521	72% 28%
1	B	521	72% 28%
1	C	521	71% 29%
1	D	521	72% 28%
1	E	521	73% 27%
1	F	521	72% 28%
1	G	521	72% 28%
1	H	521	72% 28%
1	I	521	72% 28%
1	J	521	71% 29%
1	K	521	72% 28%
1	L	521	72% 28%
1	M	521	72% 28%
1	N	521	71% 28%
1	O	521	73% 27%
1	P	521	72% 28%
1	Q	521	72% 28%
1	R	521	72% 28%
1	S	521	72% 27%
1	T	521	72% 27%
1	U	521	72% 28%
1	V	521	72% 28%
1	W	521	71% 29%
1	X	521	72% 28%
1	Y	521	72% 27%

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Mol	Chain	Length	Quality of chain
1	Z	521	72% 28%
1	a	521	71% 29%
1	b	521	71% 28%
1	c	521	72% 28%
1	d	521	72% 28%
1	e	521	72% 28%
1	f	521	72% 28%
1	g	521	72% 28%
1	h	521	72% 28%
1	i	521	71% 28%
1	j	521	72% 28%
1	k	521	71% 28%
1	l	521	72% 28%
1	m	521	72% 27%
1	n	521	72% 28%
1	o	521	72% 28%
1	p	521	71% 28%
1	q	521	72% 28%
1	r	521	73% 27%
1	s	521	72% 28%
1	t	521	72% 28%
1	u	521	72% 28%
1	v	521	71% 28%
1	w	521	73% 27%
1	x	521	72% 28%

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Mol	Chain	Length	Quality of chain
1	y	521	
1	z	521	

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 250440 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	B	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	C	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	D	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	E	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	F	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	G	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	H	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	I	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	J	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	K	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	L	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	M	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	N	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	O	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	P	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	Q	521	Total 4152	C 2616	N 726	O 791	S 19	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	S	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	T	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	U	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	V	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	W	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	X	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	Y	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	Z	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	a	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	b	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	c	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	d	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	e	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	f	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	g	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	h	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	i	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	j	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	k	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		
1	l	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	n	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	o	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	p	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	q	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	r	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	s	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	t	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	u	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	v	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	w	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	x	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	y	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	z	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	1	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	2	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	3	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	4	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	5	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	6	521	Total 4152	C 2616	N 726	O 791	S 19	2	0
1	7	521	Total 4152	C 2616	N 726	O 791	S 19	2	0

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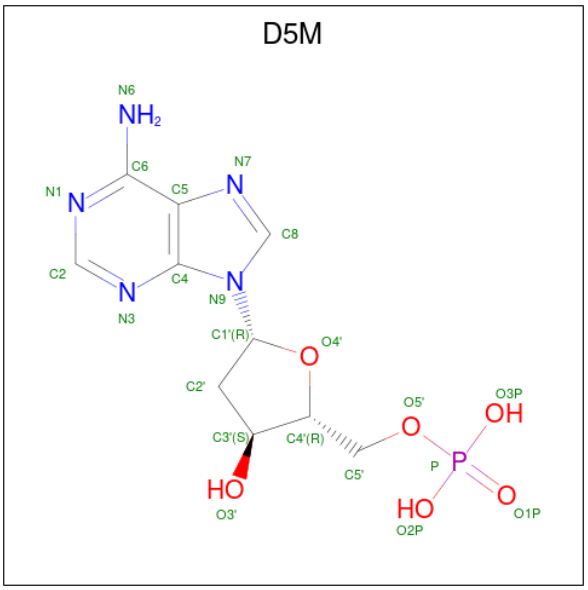
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	2	0
			4152	2616	726	791	19		

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



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	B	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	C	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	D	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	E	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	F	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	G	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	H	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	I	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	J	1	Total	C	N	O	P	0
			22	10	5	6	1	

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

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

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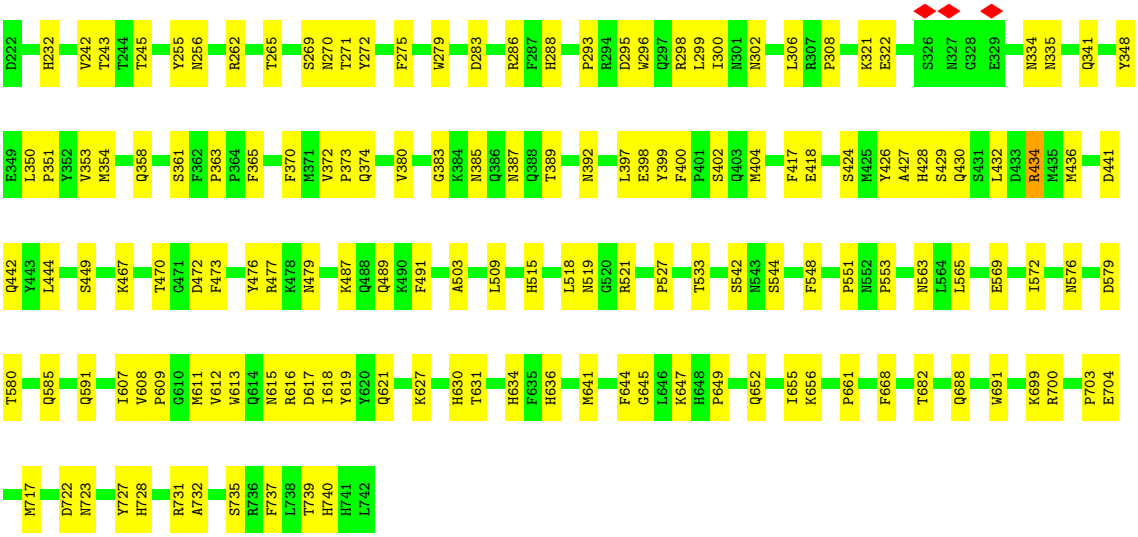
Mol	Chain	Residues	Atoms					AltConf
2	1	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	2	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	3	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	4	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	5	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	6	1	Total	C	N	O	P	0
			22	10	5	6	1	
2	7	1	Total	C	N	O	P	0
			22	10	5	6	1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

3 Residue-property plots (i)

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

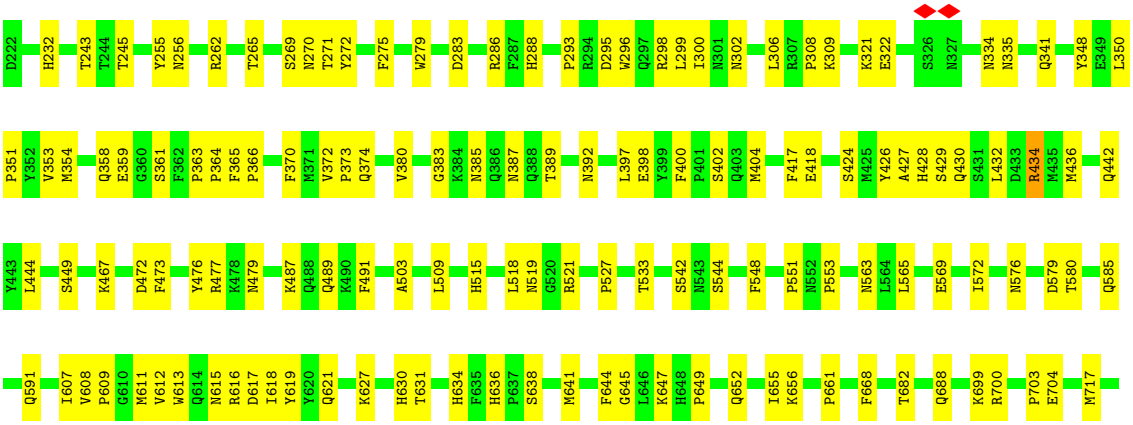
- Molecule 1: VP1

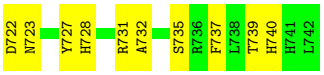
Chain A:



- Molecule 1: VP1

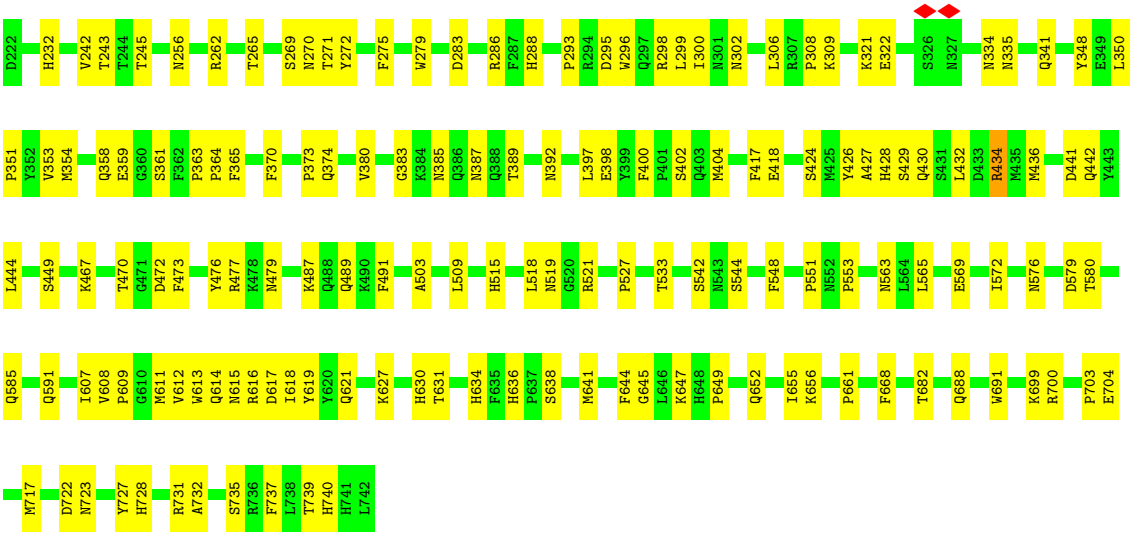
Chain B:





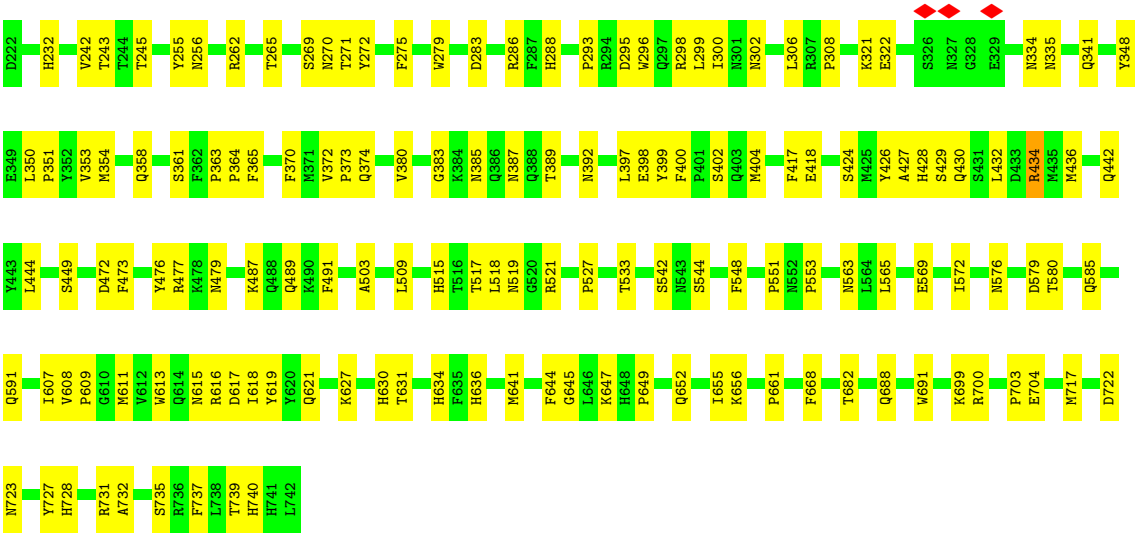
• Molecule 1: VP1

Chain C:



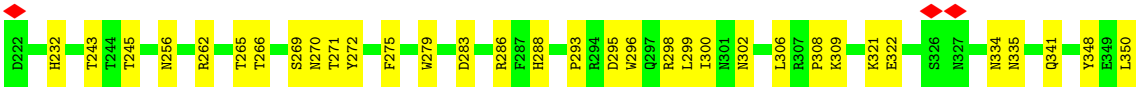
• Molecule 1: VP1

Chain D:



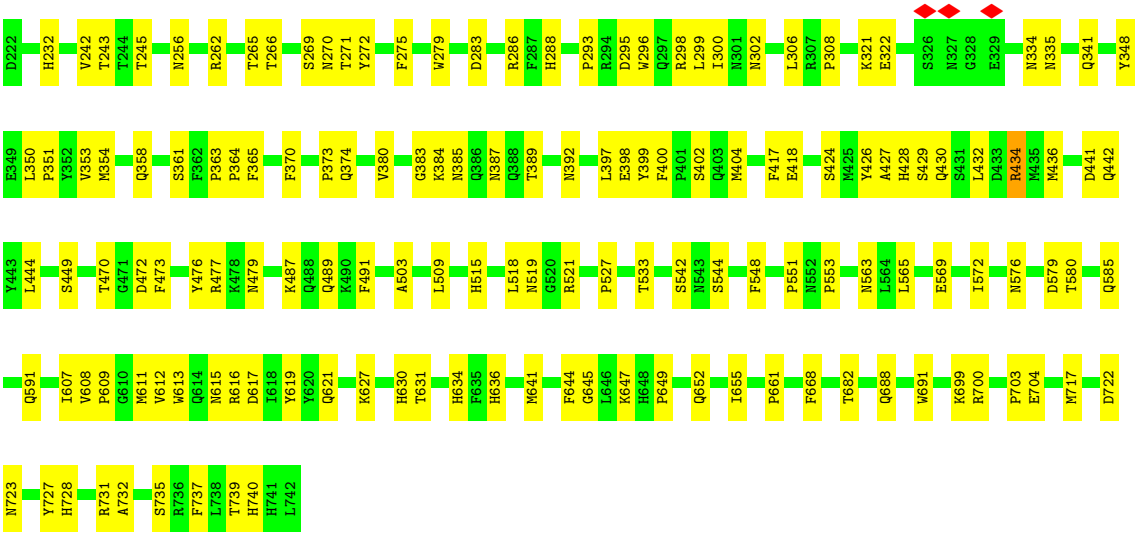
• Molecule 1: VP1

Chain E:



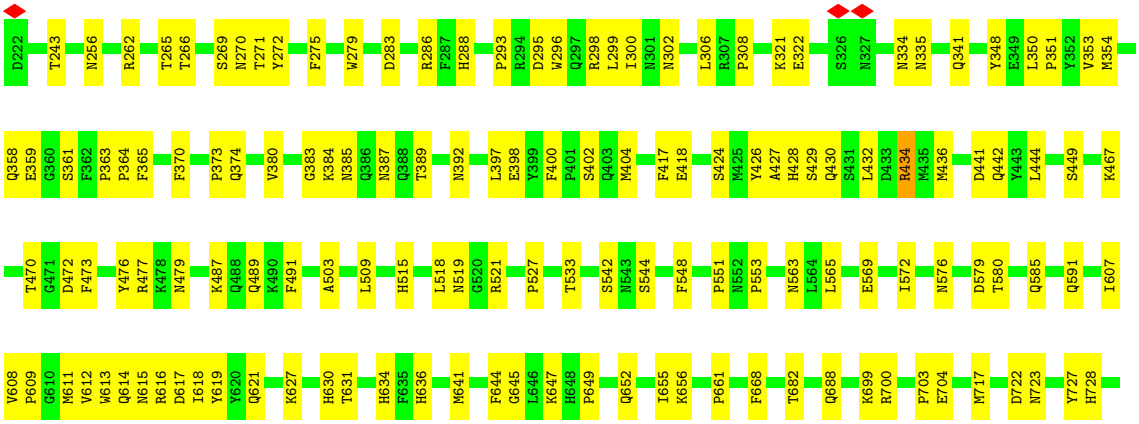
• Molecule 1: VP1

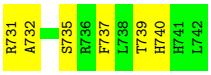
Chain F:



• Molecule 1: VP1

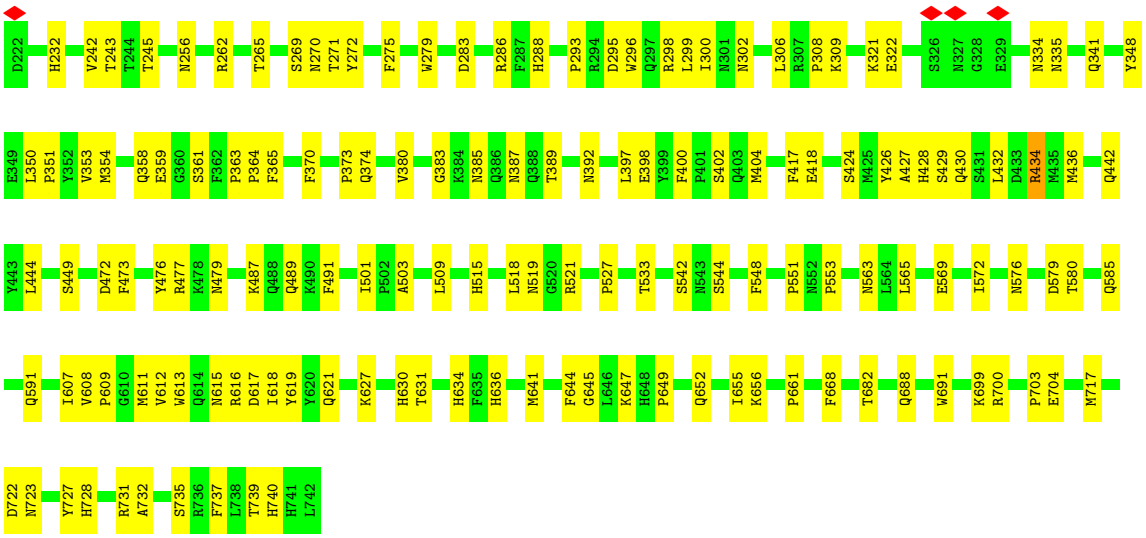
Chain G:





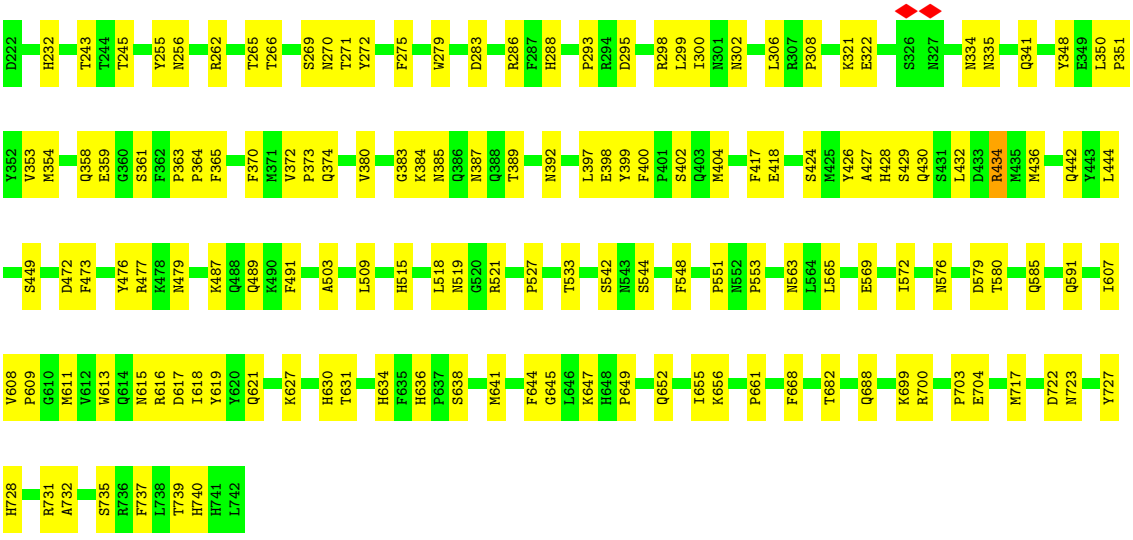
• Molecule 1: VP1

Chain H:



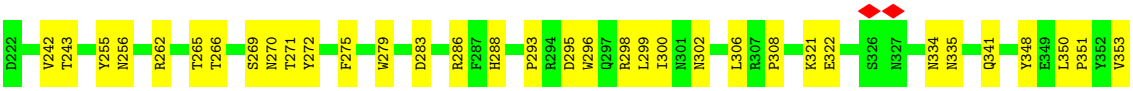
• Molecule 1: VP1

Chain I:



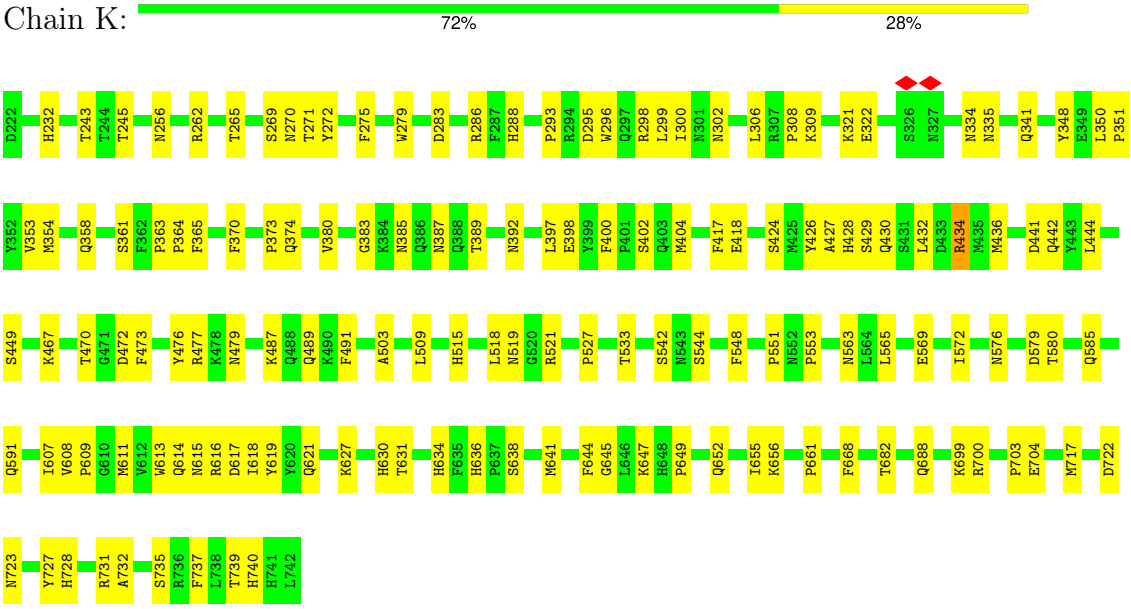
• Molecule 1: VP1

Chain J:



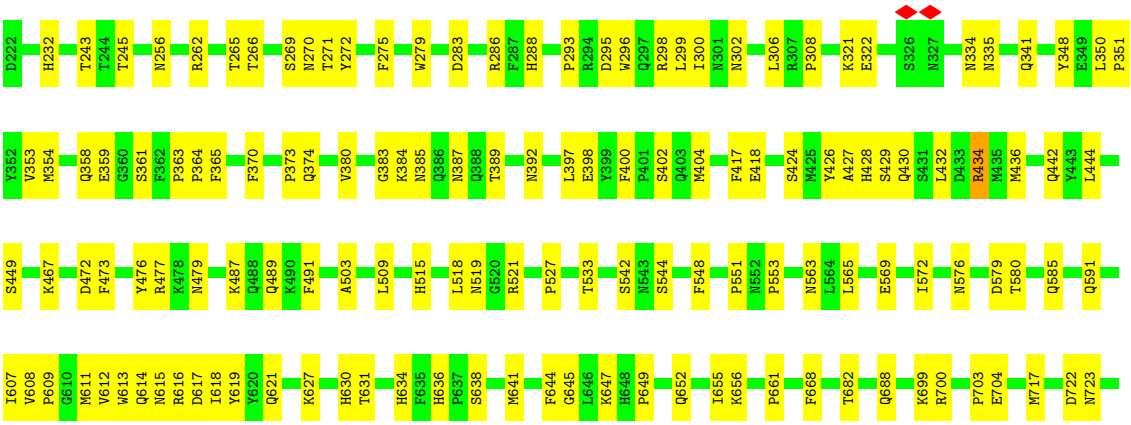
• Molecule 1: VP1

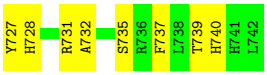
Chain K:



• Molecule 1: VP1

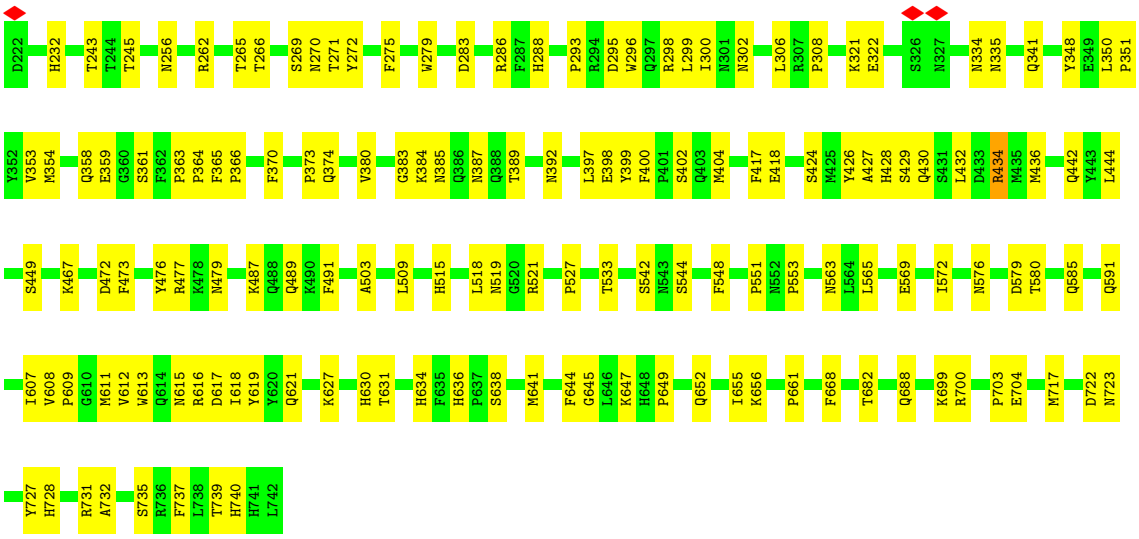
Chain L:





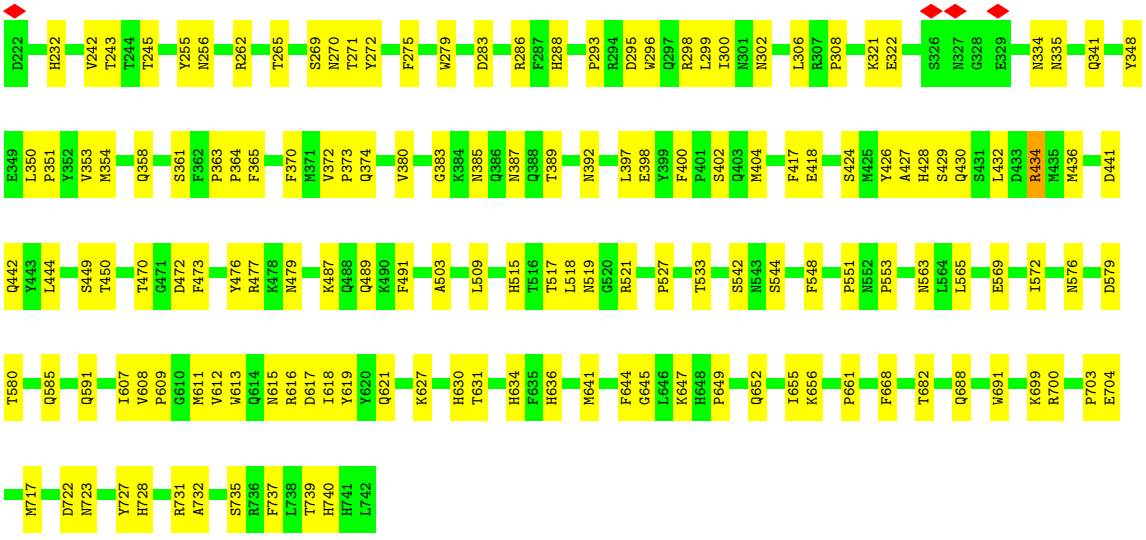
• Molecule 1: VP1

Chain M:



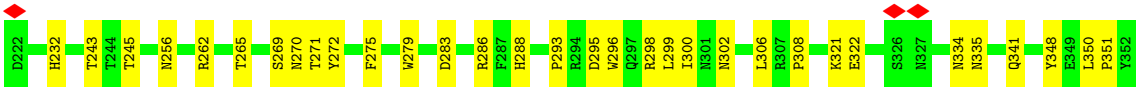
• Molecule 1: VP1

Chain N:



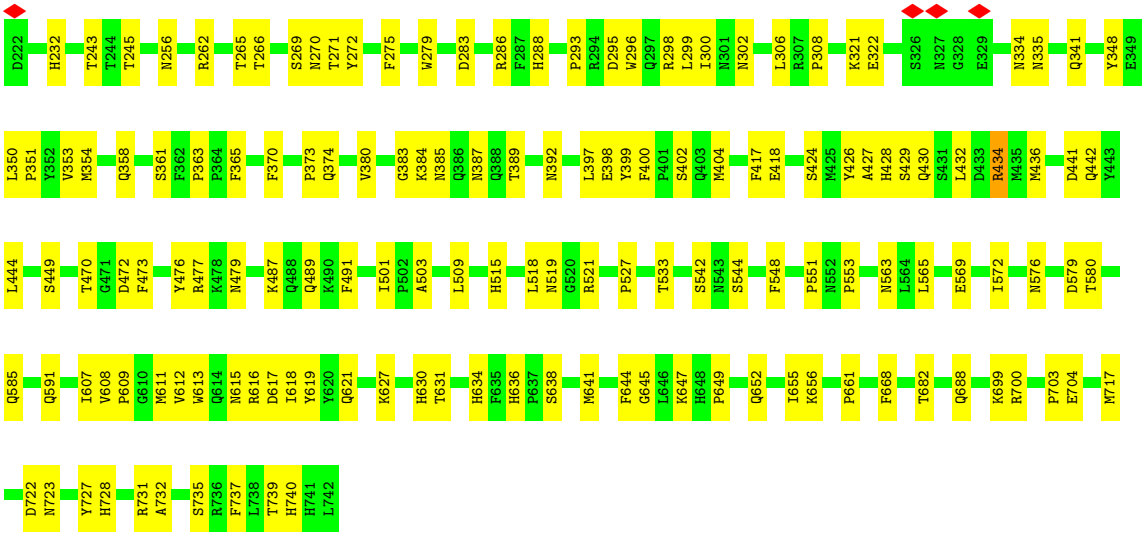
• Molecule 1: VP1

Chain O:



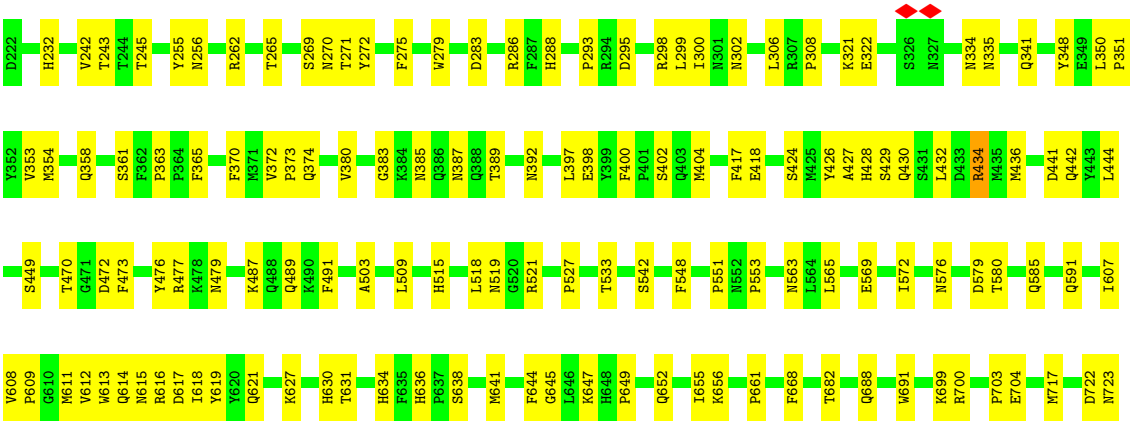
• Molecule 1: VP1

Chain P:



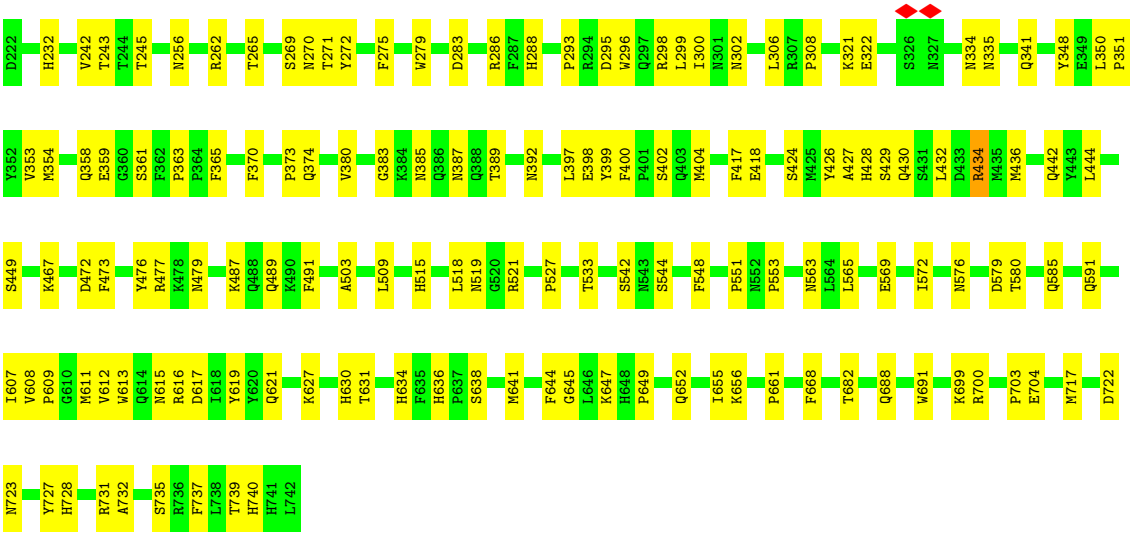
• Molecule 1: VP1

Chain Q:



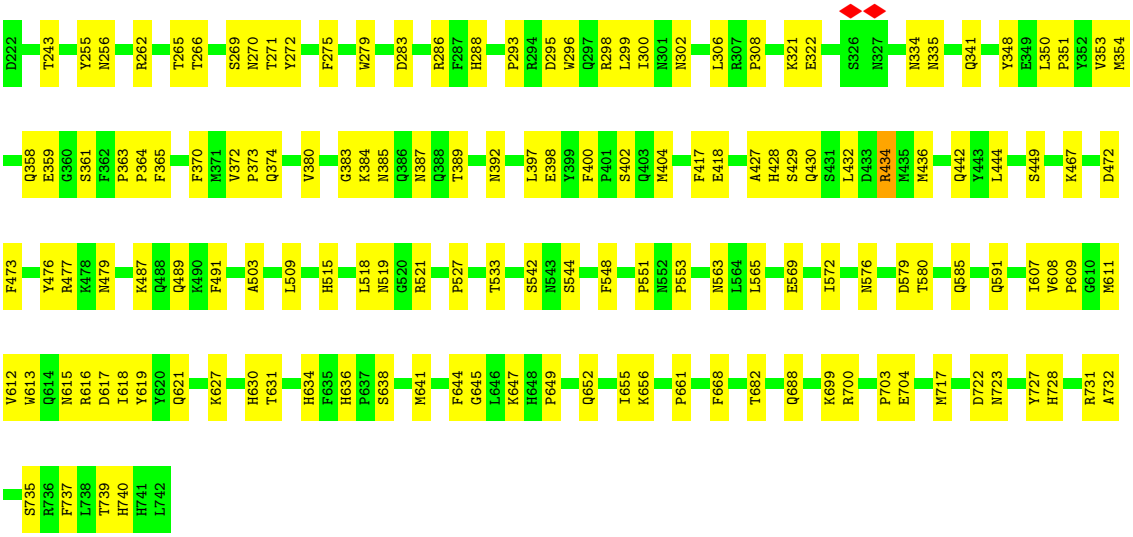
• Molecule 1: VP1

Chain R:



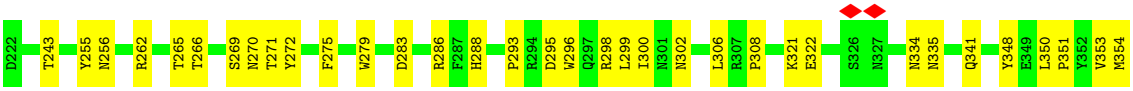
• Molecule 1: VP1

Chain S:



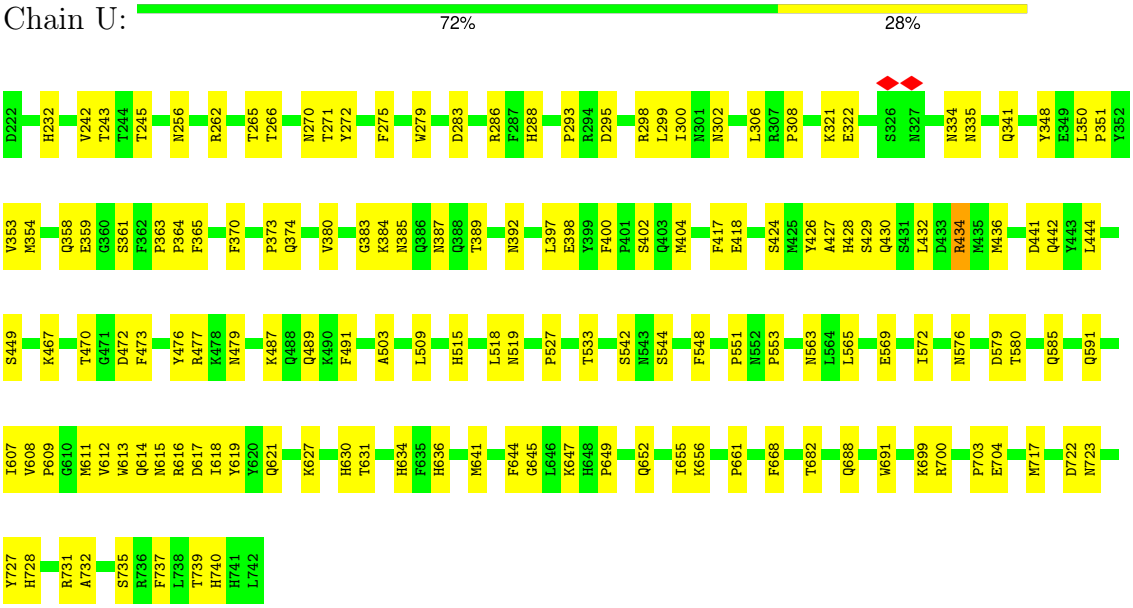
• Molecule 1: VP1

Chain T:



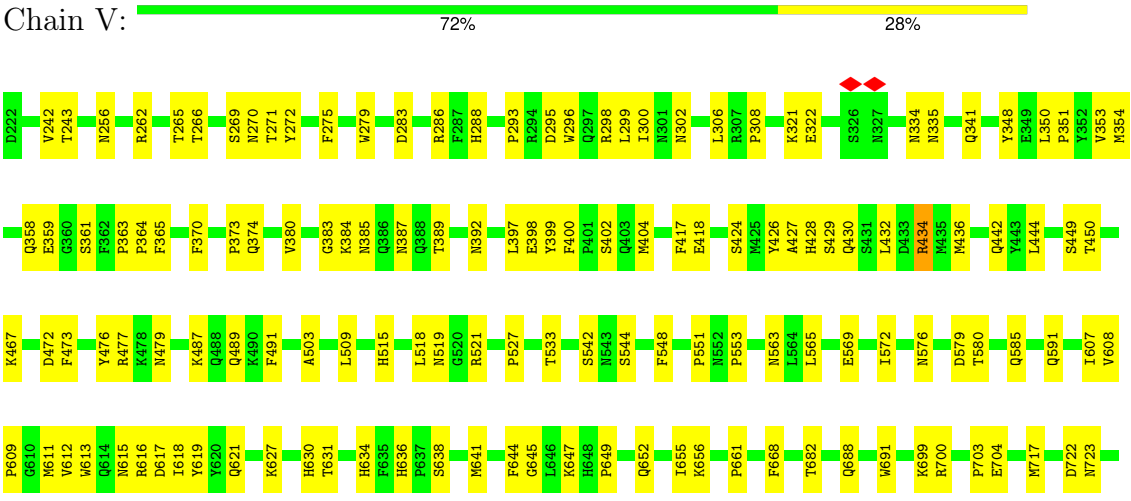
• Molecule 1: VP1

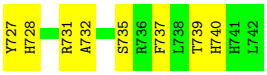
Chain U:



• Molecule 1: VP1

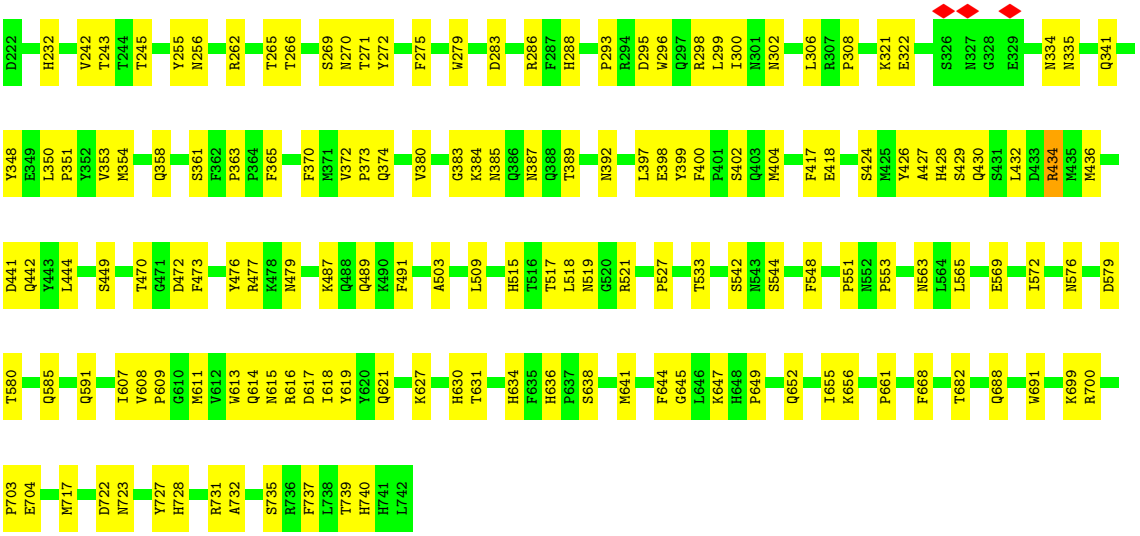
Chain V:





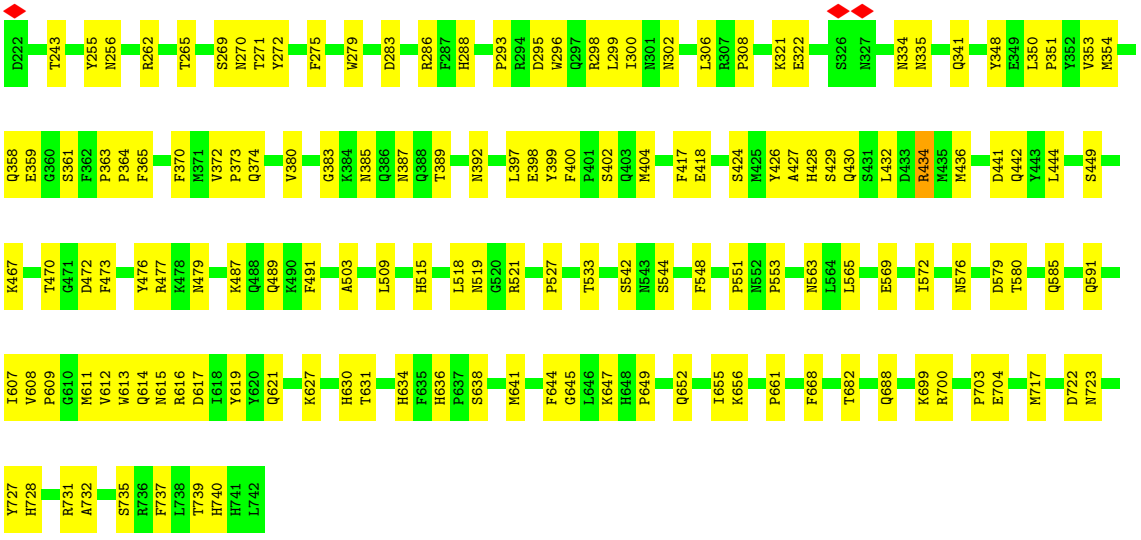
• Molecule 1: VP1

Chain W:



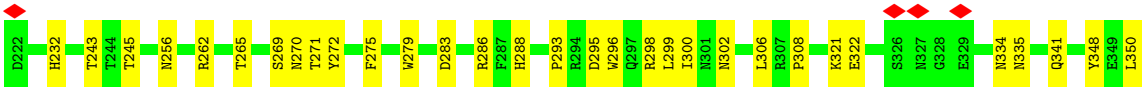
• Molecule 1: VP1

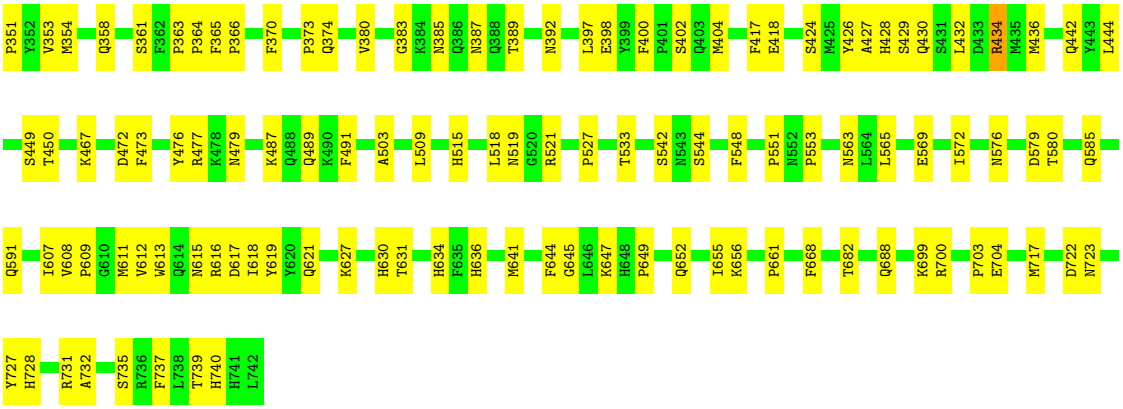
Chain X:



• Molecule 1: VP1

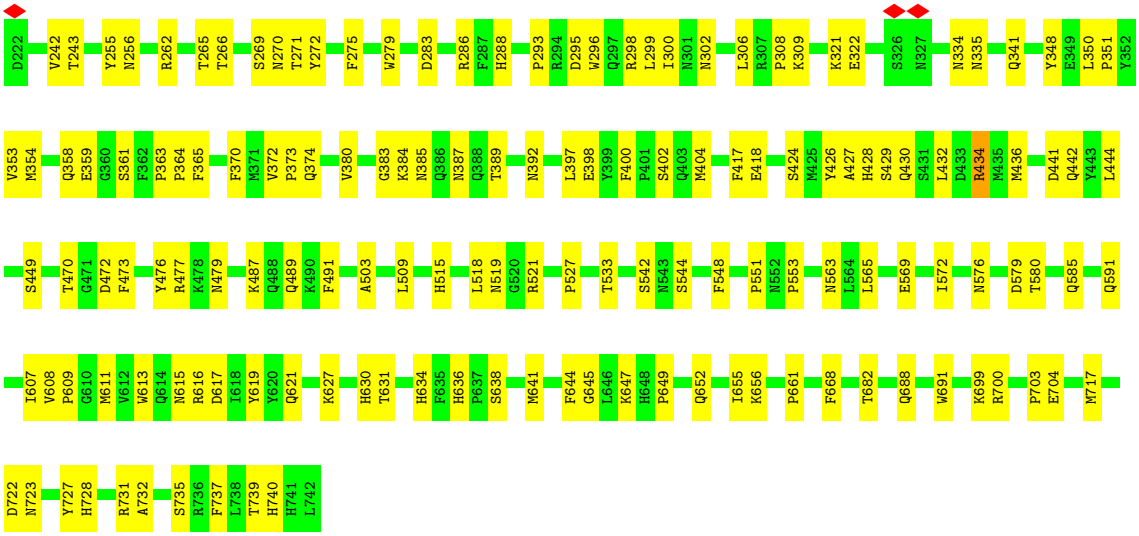
Chain Y:





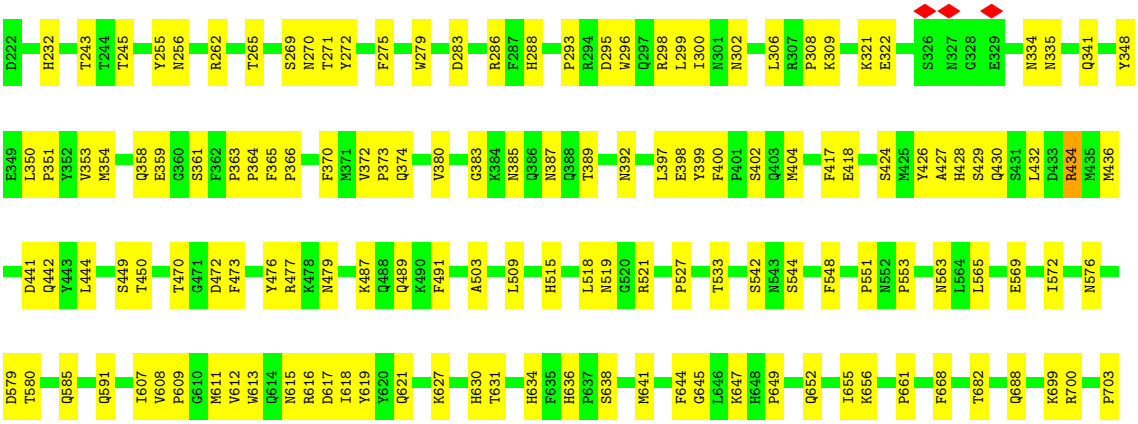
• Molecule 1: VP1

Chain Z:



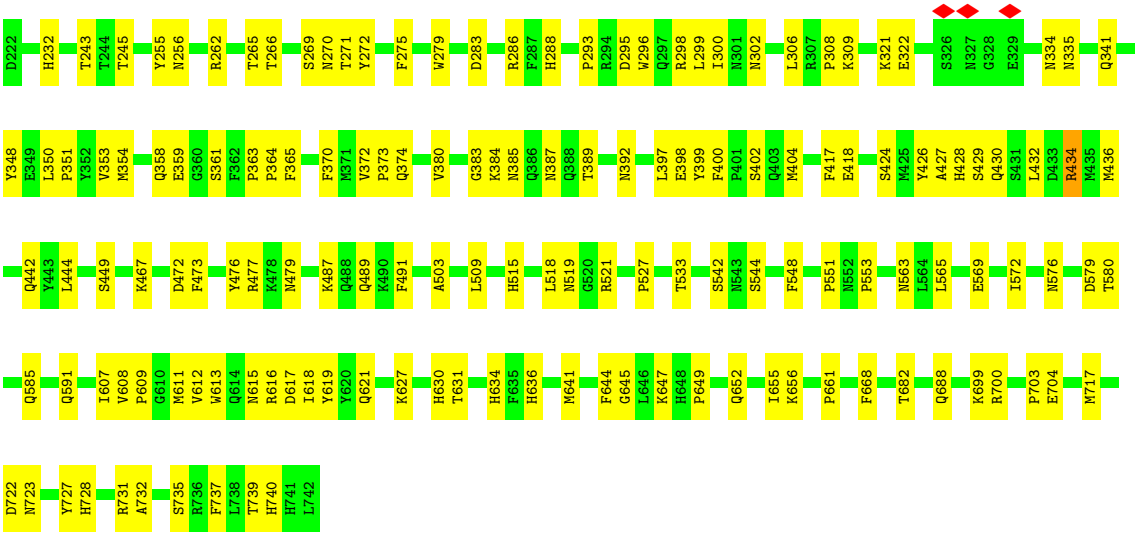
• Molecule 1: VP1

Chain a:



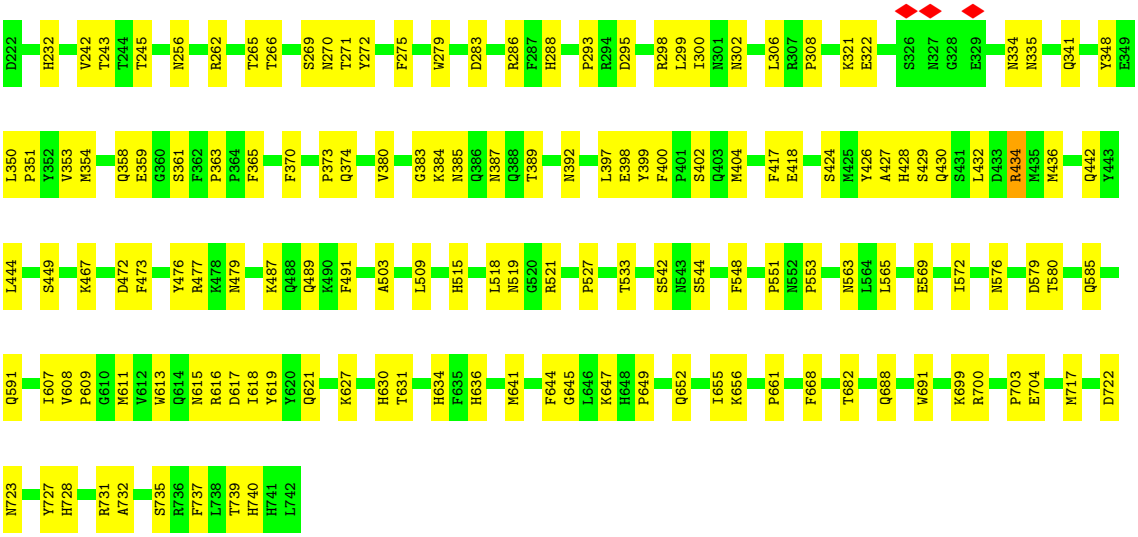
• Molecule 1: VP1

Chain b:



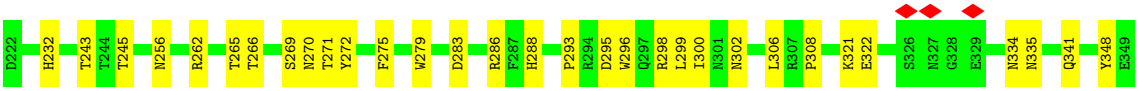
• Molecule 1: VP1

Chain c:



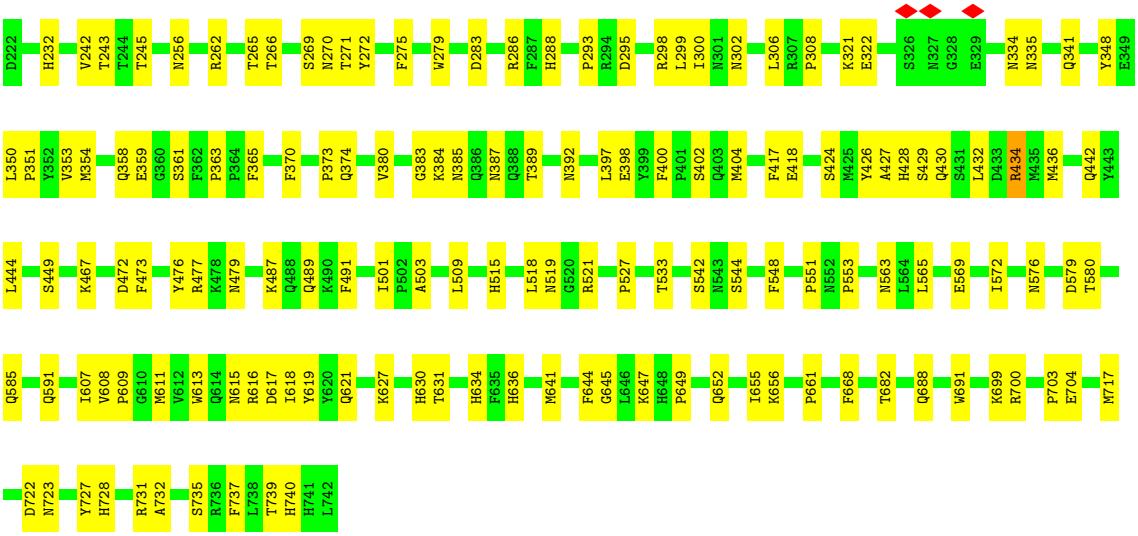
• Molecule 1: VP1

Chain d:



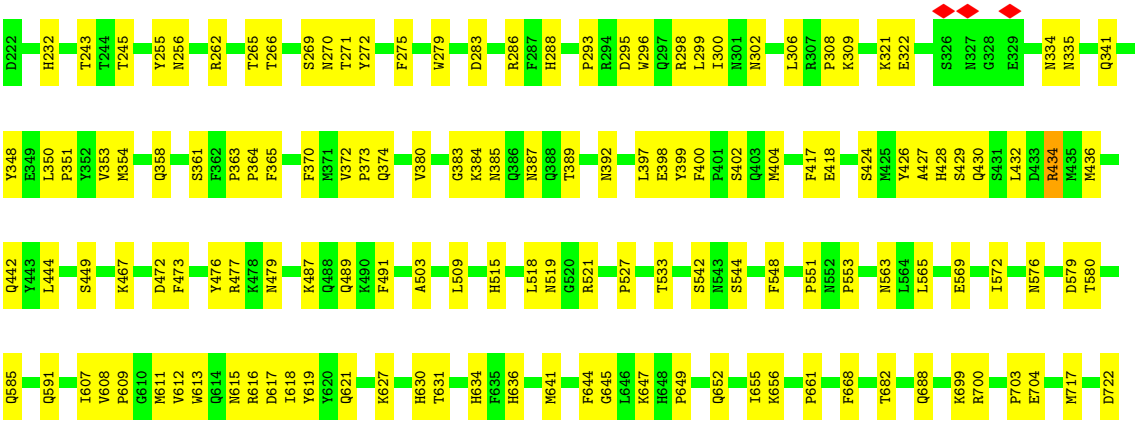
• Molecule 1: VP1

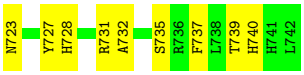
Chain e:



• Molecule 1: VP1

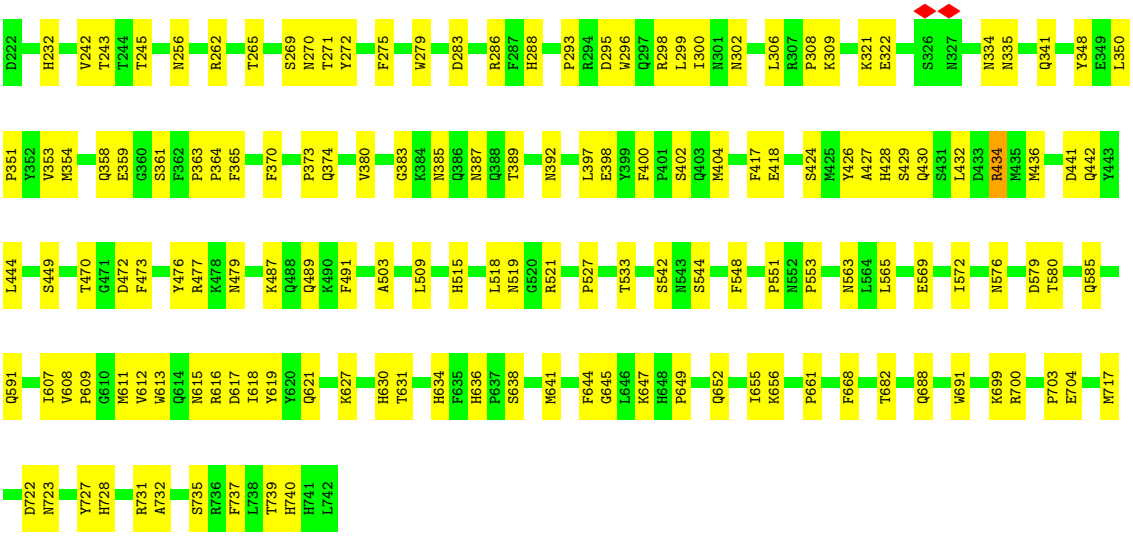
Chain f:





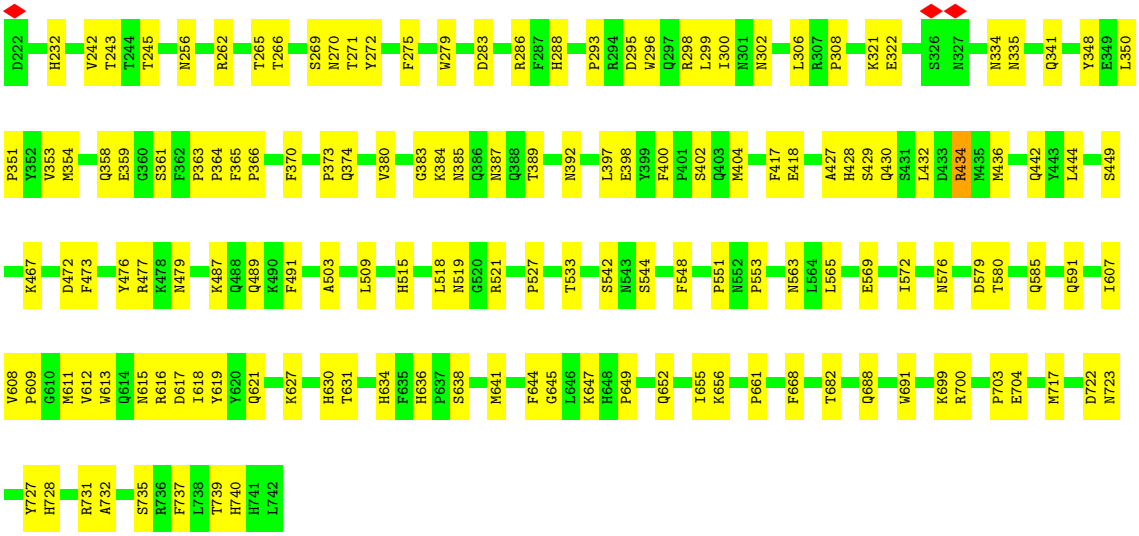
• Molecule 1: VP1

Chain g:



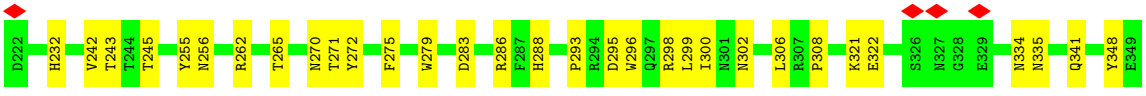
• Molecule 1: VP1

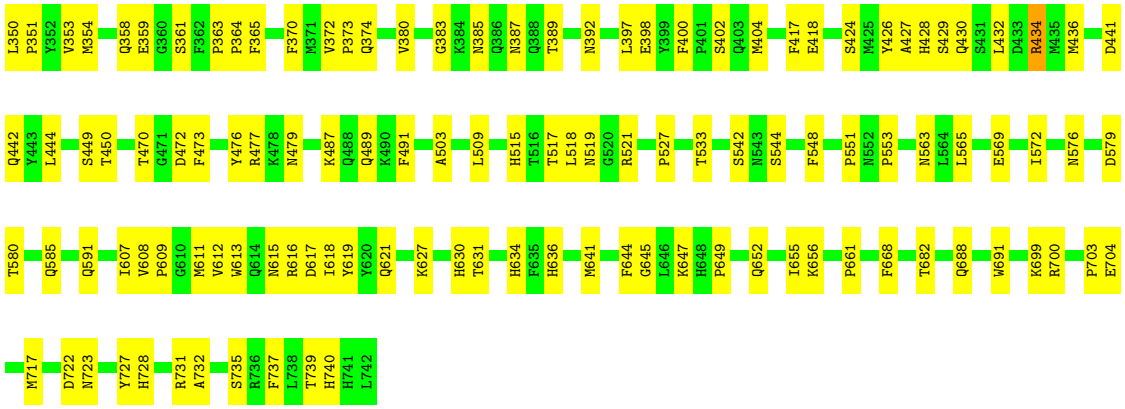
Chain h:



• Molecule 1: VP1

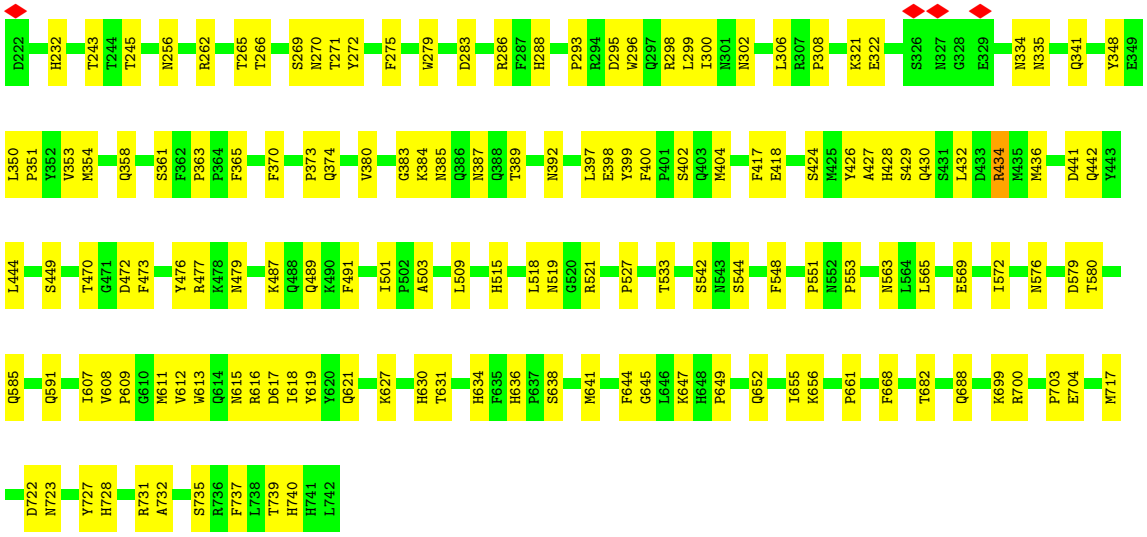
Chain i:





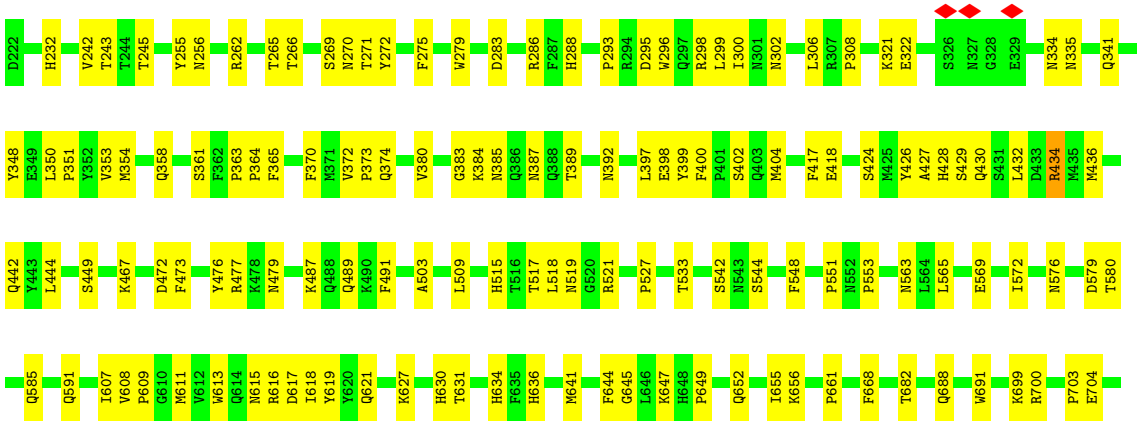
• Molecule 1: VP1

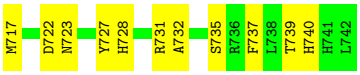
Chain j:



• Molecule 1: VP1

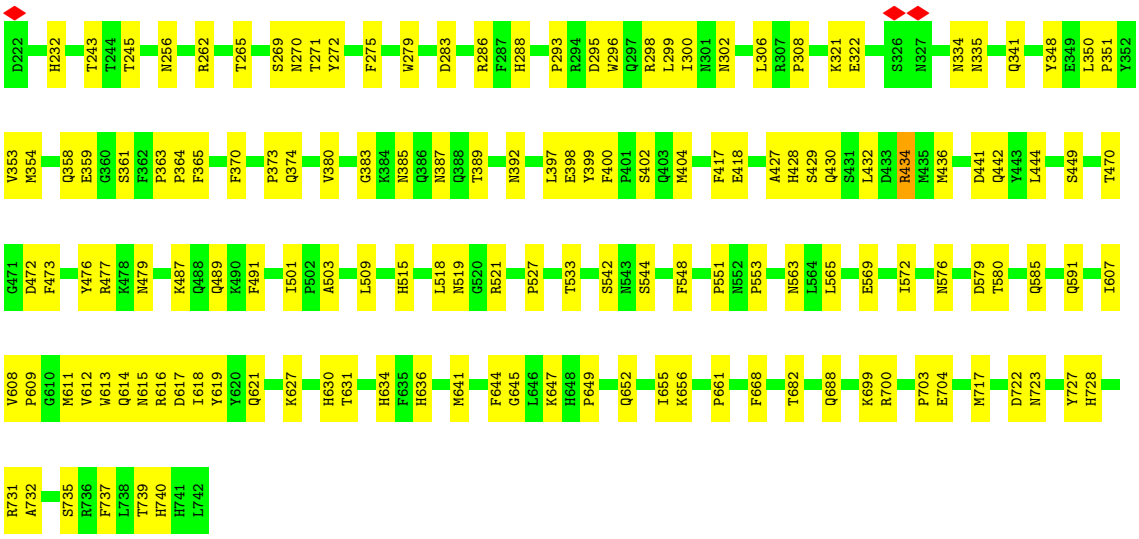
Chain k:





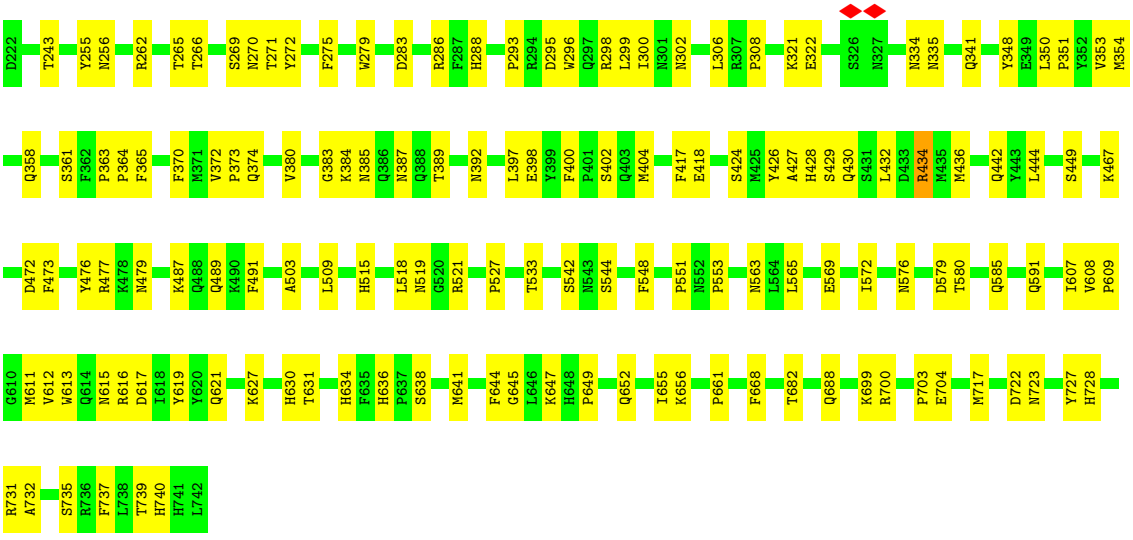
• Molecule 1: VP1

Chain l:



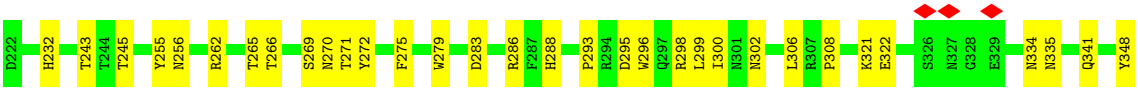
• Molecule 1: VP1

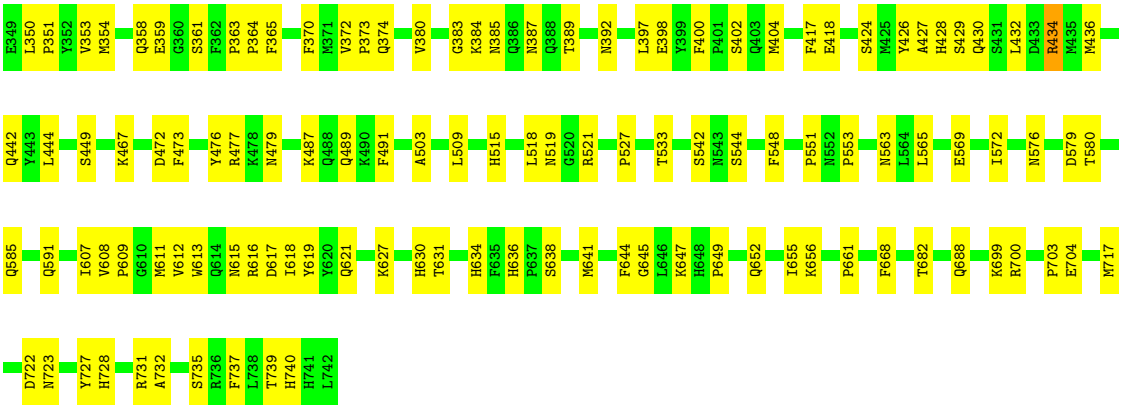
Chain m:



• Molecule 1: VP1

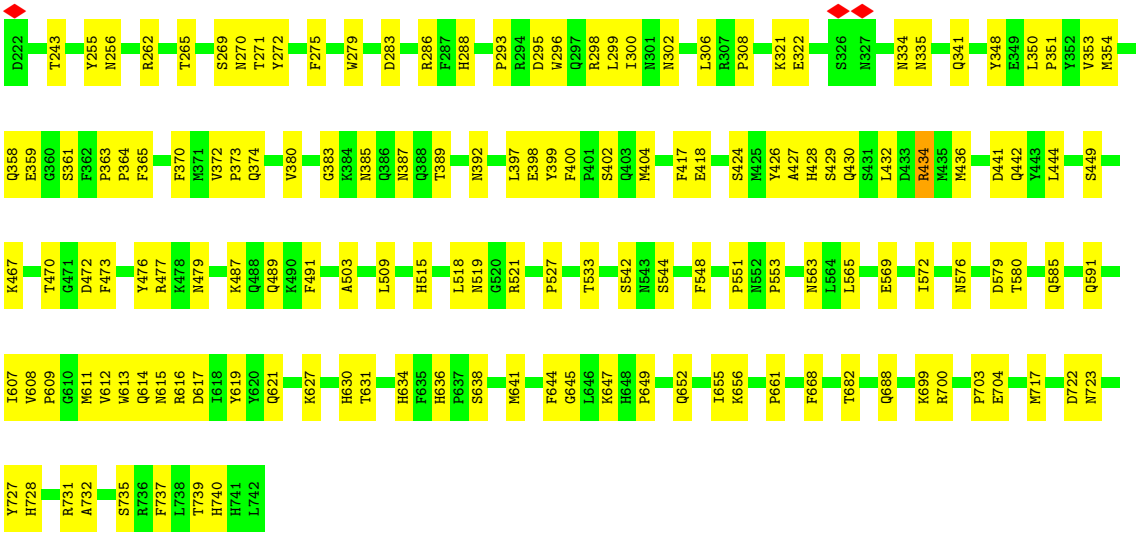
Chain n:





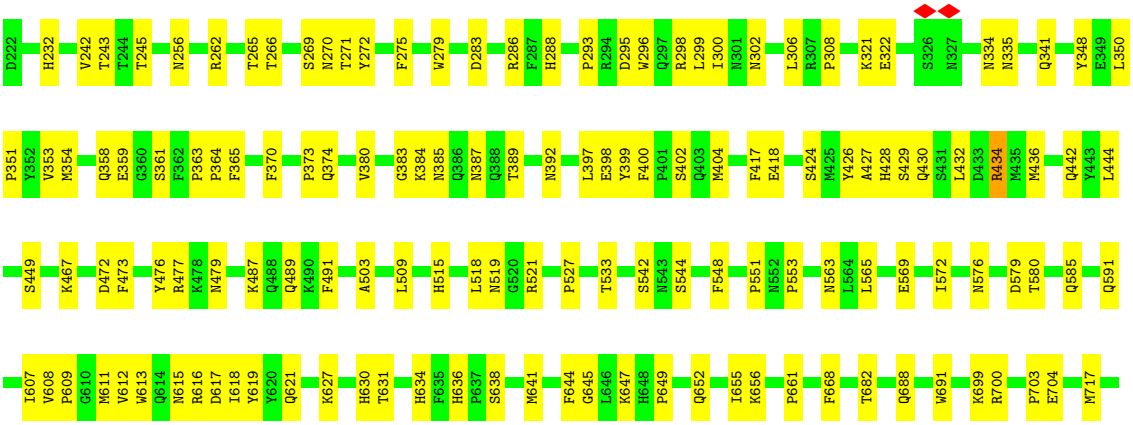
• Molecule 1: VP1

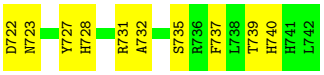
Chain o:



• Molecule 1: VP1

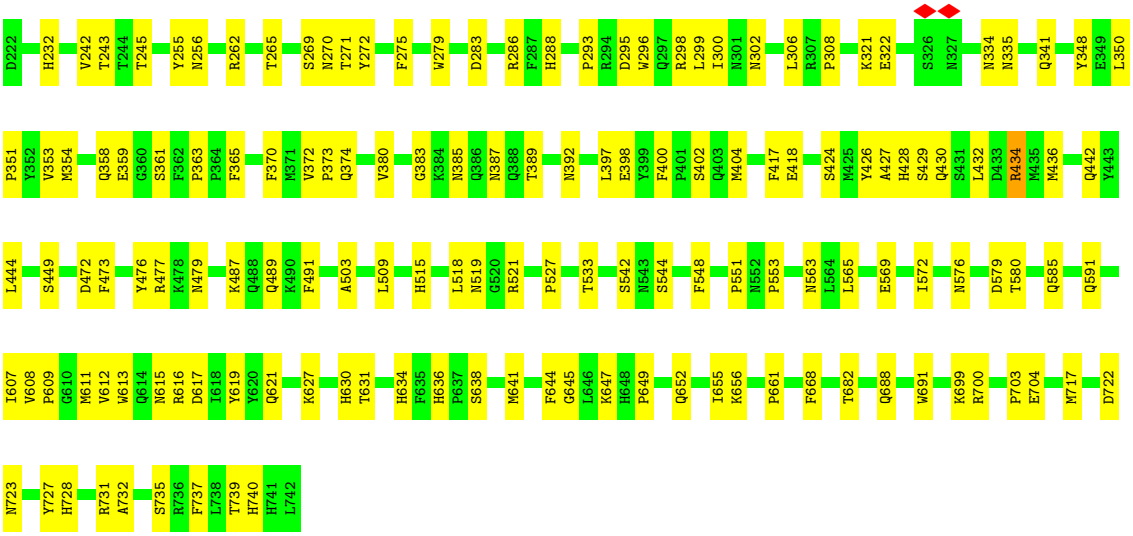
Chain p:





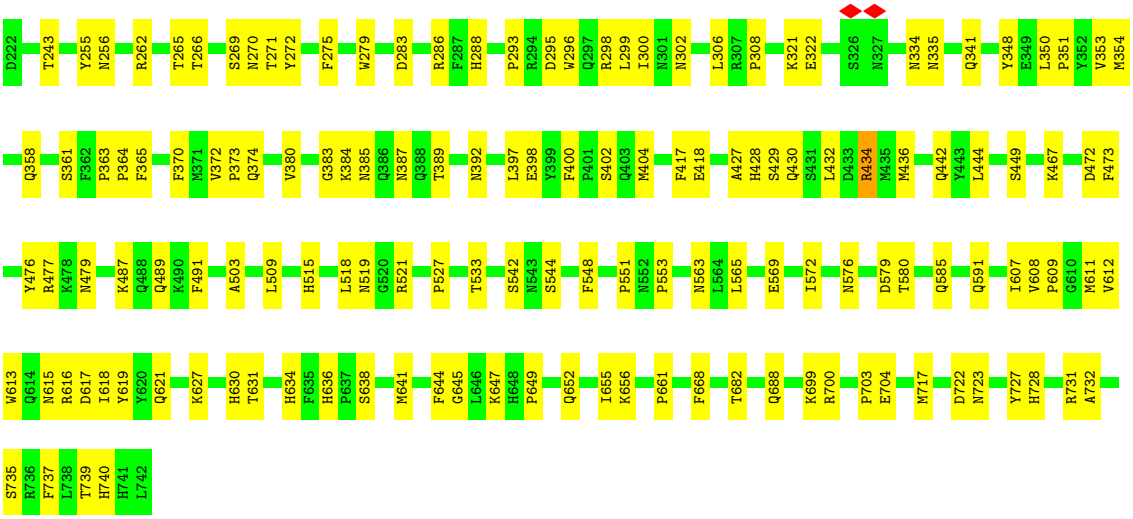
• Molecule 1: VP1

Chain q:



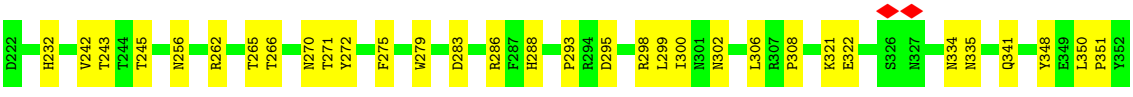
• Molecule 1: VP1

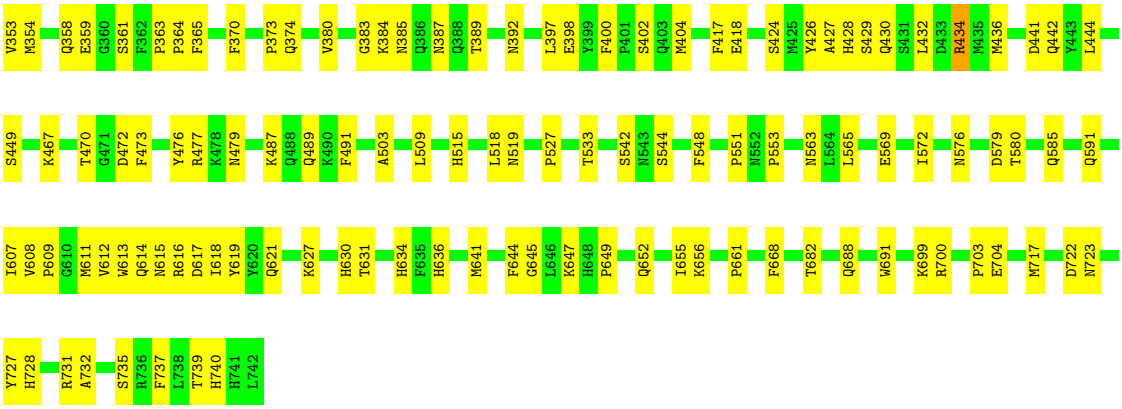
Chain r:



• Molecule 1: VP1

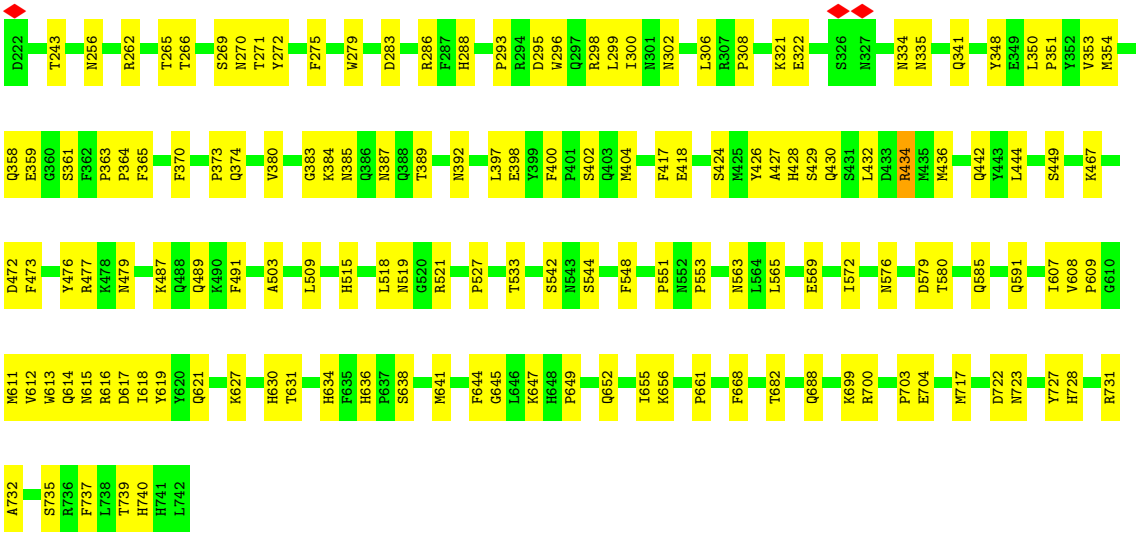
Chain s:





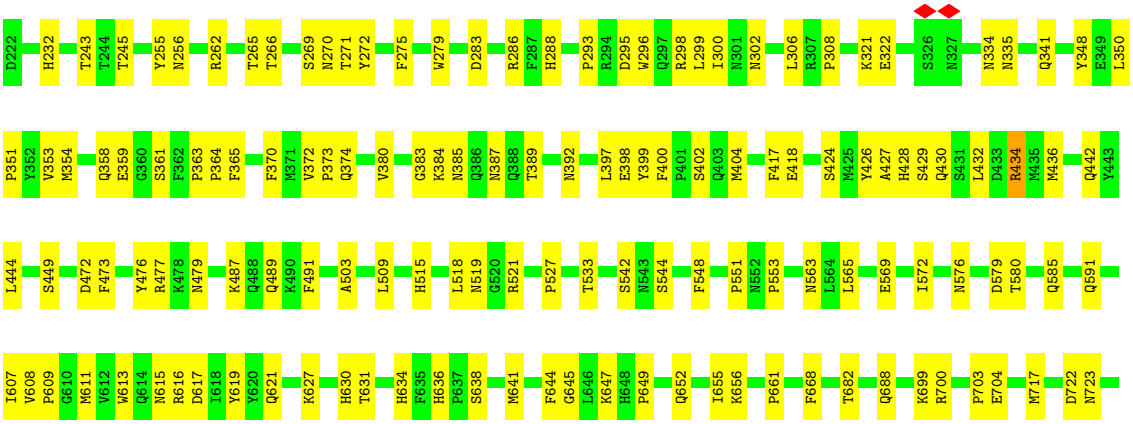
• Molecule 1: VP1

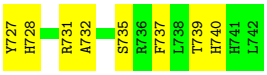
Chain t:



• Molecule 1: VP1

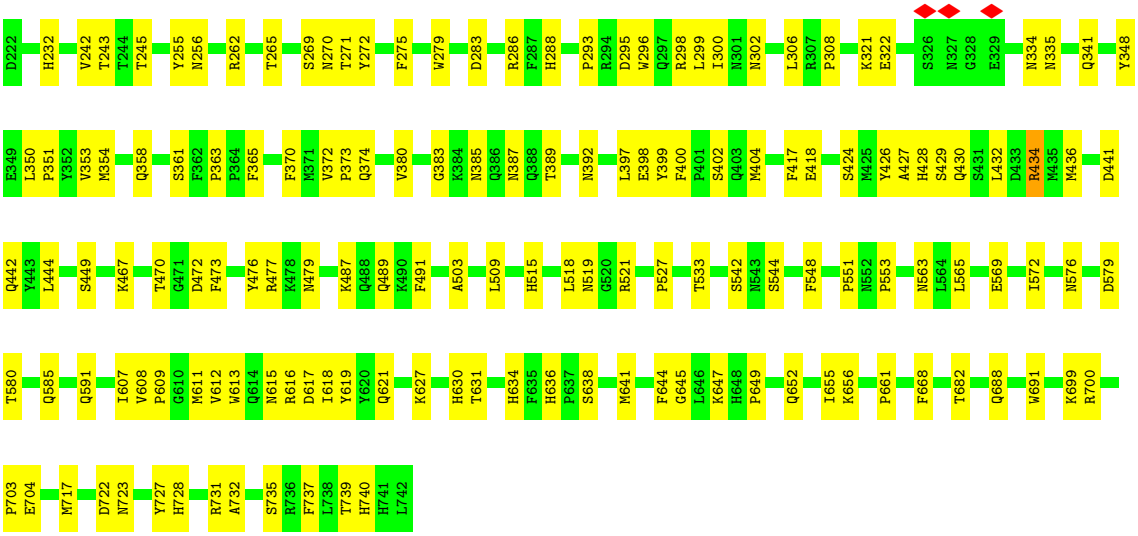
Chain u:





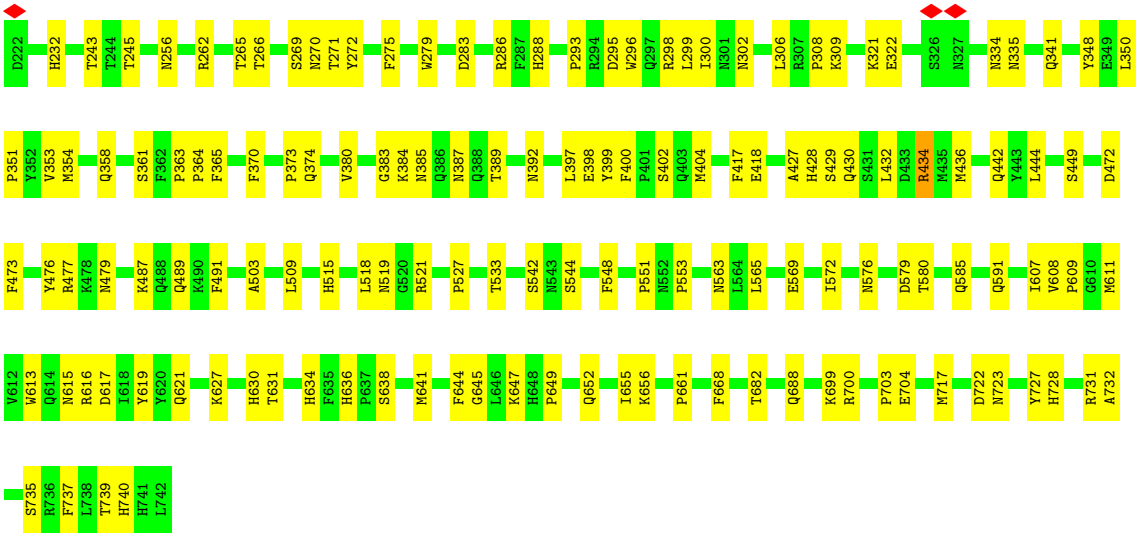
• Molecule 1: VP1

Chain v:



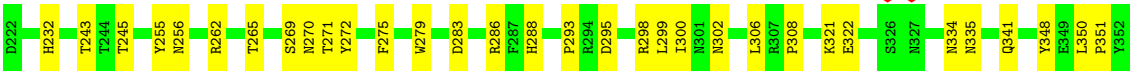
• Molecule 1: VP1

Chain w:



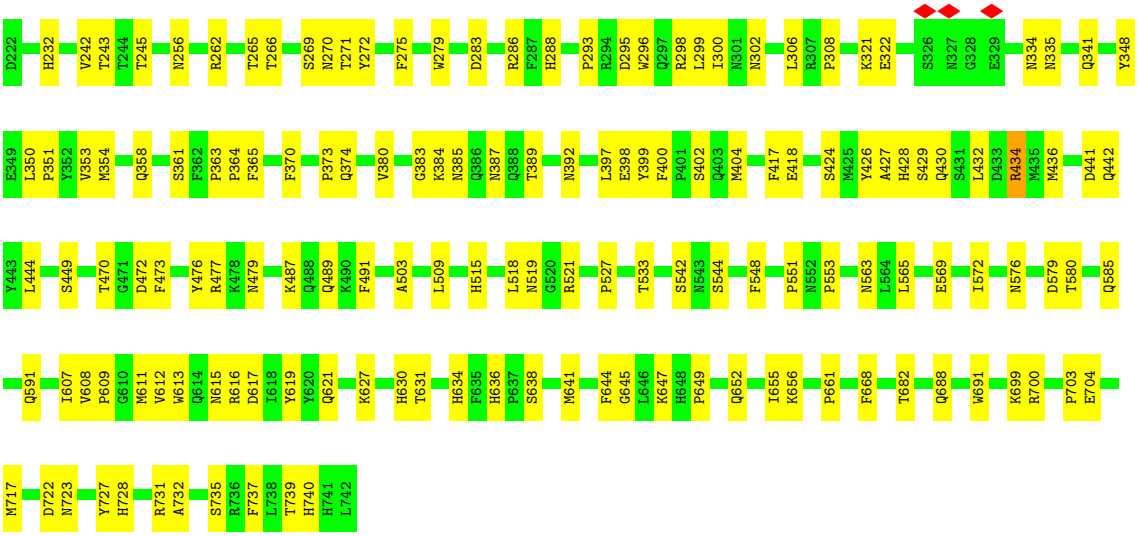
• Molecule 1: VP1

Chain x:



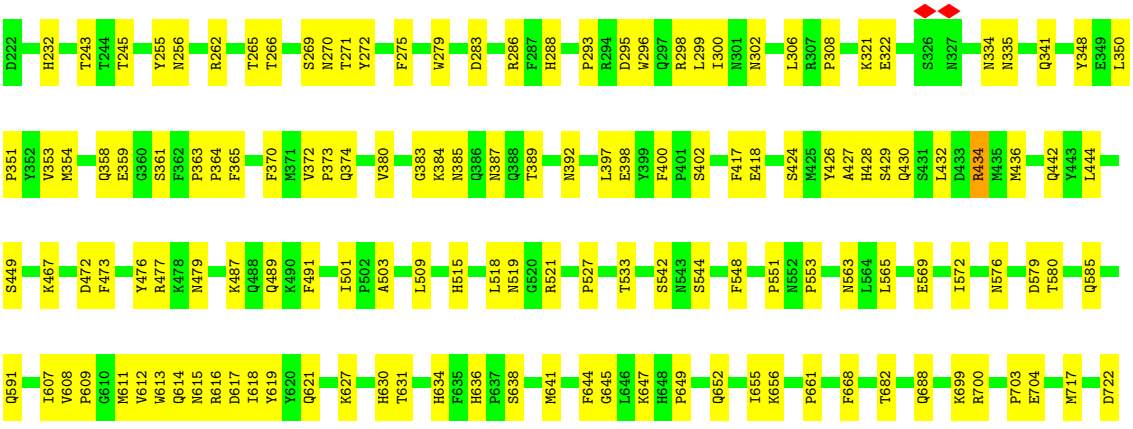
• Molecule 1: VP1

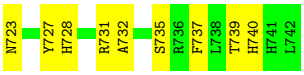
Chain y:



• Molecule 1: VP1

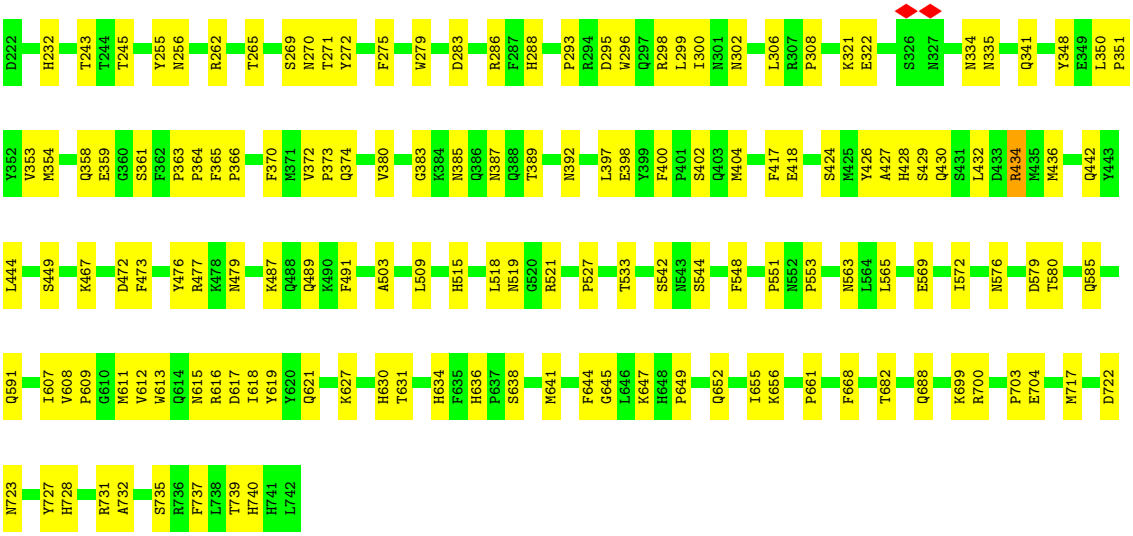
Chain z:





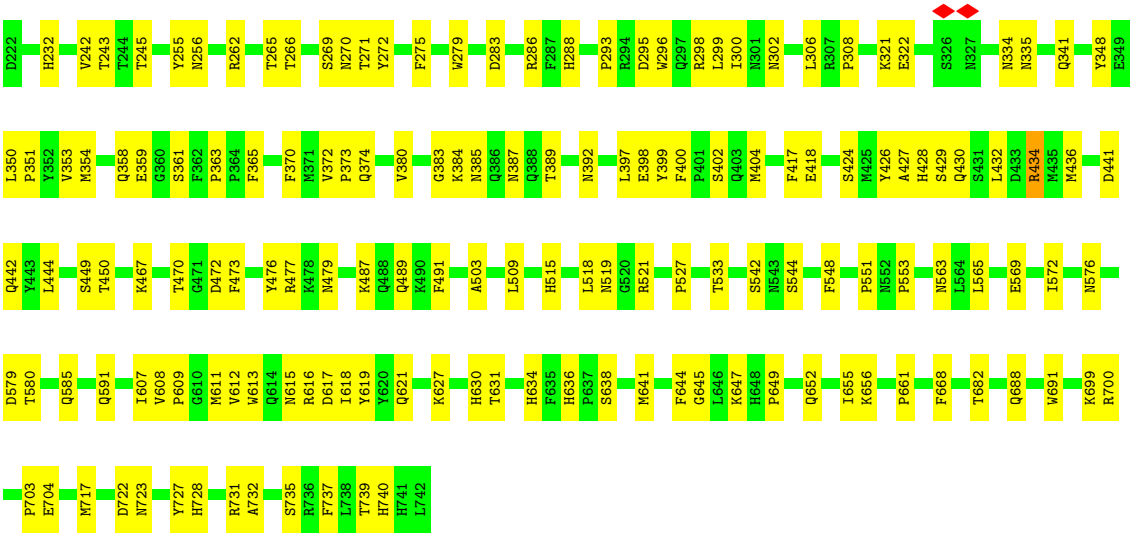
• Molecule 1: VP1

Chain 1:



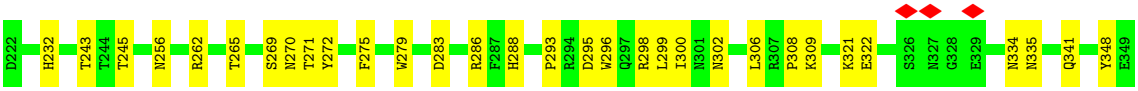
• Molecule 1: VP1

Chain 2:



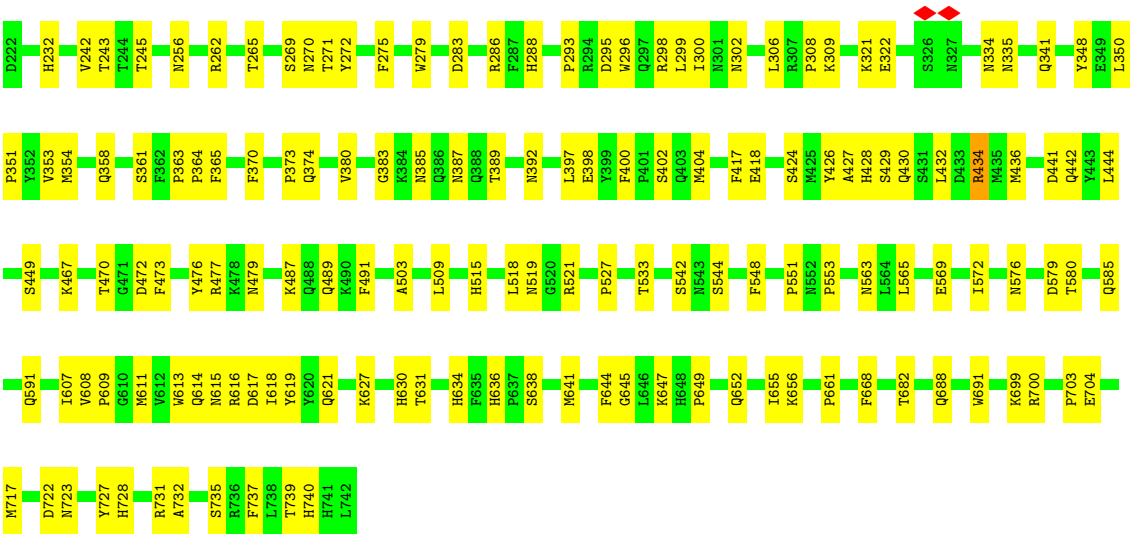
• Molecule 1: VP1

Chain 3:



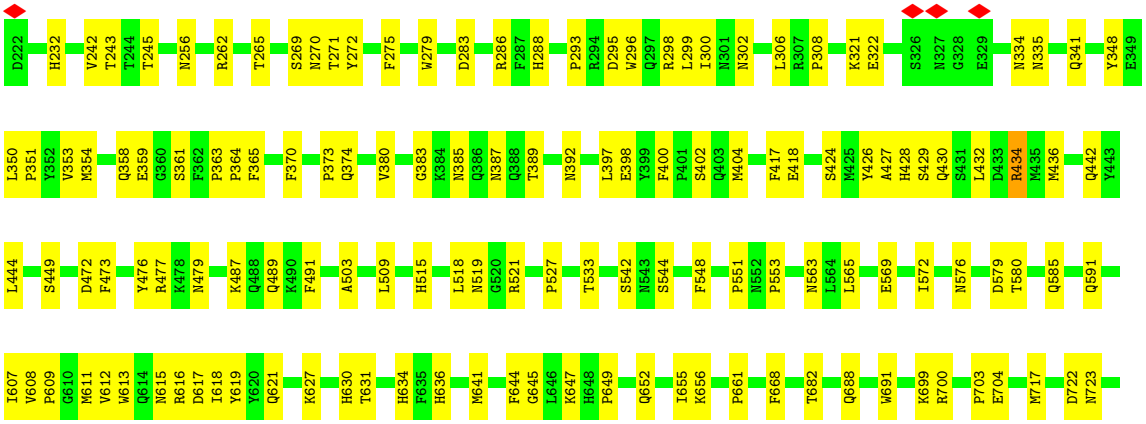
• Molecule 1: VP1

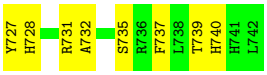
Chain 4:



• Molecule 1: VP1

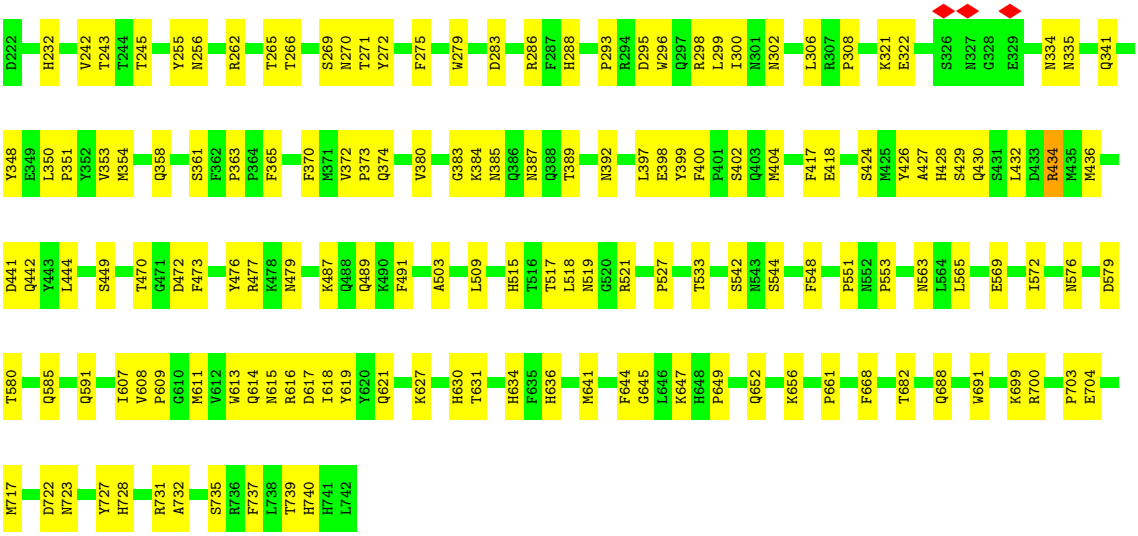
Chain 5:





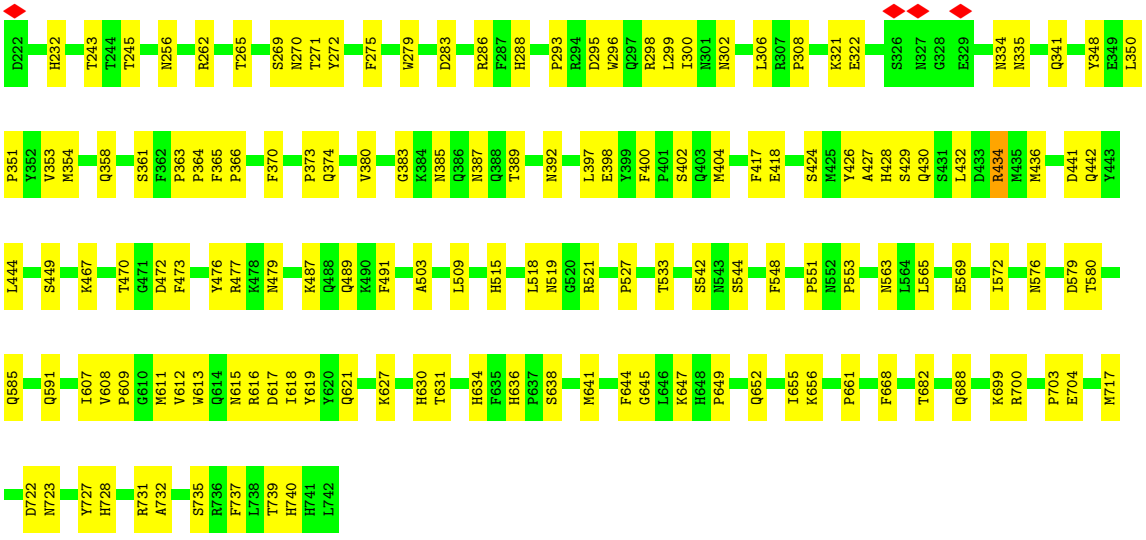
• Molecule 1: VP1

Chain 6:



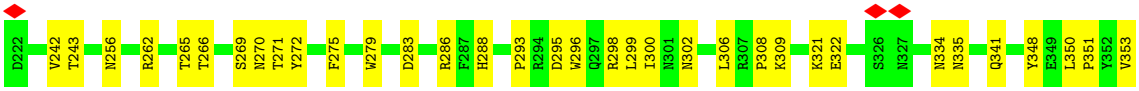
• Molecule 1: VP1

Chain 7:



• Molecule 1: VP1

Chain 8:



M354 Q358 S361 F362 P363 P364 F365 F370 P373 Q374 V380 G383 K384 N385 Q386 N387 Q388 T389 N392 L397 E398 Y399 F400 P401 S402 Q403 M404 F417 E418 A427 H428 S429 Q430 S431 L432 D433 R434 M435 M436 D441 Q442 Y443 L444 S449 T470 G471 D472
F473 Y476 R477 K478 N479 K487 Q488 Q489 K490 F491 I501 P502 A503 L509 H515 L518 N519 G520 R521 P527 T533 S542 N543 S544 F548 P551 N552 P553 N563 L564 L565 E569 I572 N576 D579 T580 Q585 Q591 I607 V608 P609
G610 M611 V612 W613 Q614 N615 R616 D617 I618 Y619 Y620 Q621 K627 H630 T631 H634 F635 H636 P637 S638 M641 F644 G645 L646 K647 H648 P649 Q652 I655 K656 P661 F668 T682 Q688 W691 K699 R700 P703 E704 M717 D722 N723 Y727
H728 R731 A732 S735 R736 F737 L738 T739 H740 H741 L742

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	40764	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	19.106	Depositor
Minimum map value	-11.868	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	454.44, 454.44, 454.44	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.082, 1.082, 1.082	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	0.45	0/4283	0.58	1/5847 (0.0%)
1	2	0.45	0/4283	0.58	1/5847 (0.0%)
1	3	0.45	0/4283	0.58	1/5847 (0.0%)
1	4	0.45	0/4283	0.58	1/5847 (0.0%)
1	5	0.45	0/4283	0.58	1/5847 (0.0%)
1	6	0.45	0/4283	0.58	1/5847 (0.0%)
1	7	0.45	0/4283	0.58	1/5847 (0.0%)
1	8	0.45	0/4283	0.58	1/5847 (0.0%)
1	A	0.45	0/4283	0.58	1/5847 (0.0%)
1	B	0.45	0/4283	0.58	1/5847 (0.0%)
1	C	0.45	0/4283	0.58	1/5847 (0.0%)
1	D	0.45	0/4283	0.58	1/5847 (0.0%)
1	E	0.45	0/4283	0.58	1/5847 (0.0%)
1	F	0.45	0/4283	0.58	1/5847 (0.0%)
1	G	0.45	0/4283	0.58	1/5847 (0.0%)
1	H	0.45	0/4283	0.58	1/5847 (0.0%)
1	I	0.45	0/4283	0.58	1/5847 (0.0%)
1	J	0.45	0/4283	0.58	1/5847 (0.0%)
1	K	0.45	0/4283	0.58	1/5847 (0.0%)
1	L	0.45	0/4283	0.58	1/5847 (0.0%)
1	M	0.45	0/4283	0.58	1/5847 (0.0%)
1	N	0.45	0/4283	0.58	1/5847 (0.0%)
1	O	0.45	0/4283	0.58	1/5847 (0.0%)
1	P	0.45	0/4283	0.58	1/5847 (0.0%)
1	Q	0.45	0/4283	0.58	1/5847 (0.0%)
1	R	0.45	0/4283	0.58	1/5847 (0.0%)
1	S	0.45	0/4283	0.58	1/5847 (0.0%)
1	T	0.45	0/4283	0.58	1/5847 (0.0%)
1	U	0.45	0/4283	0.58	1/5847 (0.0%)
1	V	0.45	0/4283	0.58	1/5847 (0.0%)
1	W	0.45	0/4283	0.58	1/5847 (0.0%)
1	X	0.45	0/4283	0.58	1/5847 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Y	0.45	0/4283	0.58	1/5847 (0.0%)
1	Z	0.45	0/4283	0.58	1/5847 (0.0%)
1	a	0.45	0/4283	0.58	1/5847 (0.0%)
1	b	0.45	0/4283	0.58	1/5847 (0.0%)
1	c	0.45	0/4283	0.58	1/5847 (0.0%)
1	d	0.45	0/4283	0.58	1/5847 (0.0%)
1	e	0.45	0/4283	0.58	1/5847 (0.0%)
1	f	0.45	0/4283	0.58	1/5847 (0.0%)
1	g	0.45	0/4283	0.58	1/5847 (0.0%)
1	h	0.45	0/4283	0.58	1/5847 (0.0%)
1	i	0.45	0/4283	0.58	1/5847 (0.0%)
1	j	0.45	0/4283	0.58	1/5847 (0.0%)
1	k	0.45	0/4283	0.58	1/5847 (0.0%)
1	l	0.45	0/4283	0.58	1/5847 (0.0%)
1	m	0.45	0/4283	0.58	1/5847 (0.0%)
1	n	0.45	0/4283	0.58	1/5847 (0.0%)
1	o	0.45	0/4283	0.58	1/5847 (0.0%)
1	p	0.45	0/4283	0.58	1/5847 (0.0%)
1	q	0.45	0/4283	0.58	1/5847 (0.0%)
1	r	0.45	0/4283	0.58	1/5847 (0.0%)
1	s	0.45	0/4283	0.58	1/5847 (0.0%)
1	t	0.45	0/4283	0.58	1/5847 (0.0%)
1	u	0.45	0/4283	0.58	1/5847 (0.0%)
1	v	0.45	0/4283	0.58	1/5847 (0.0%)
1	w	0.45	0/4283	0.58	1/5847 (0.0%)
1	x	0.45	0/4283	0.58	1/5847 (0.0%)
1	y	0.45	0/4283	0.58	1/5847 (0.0%)
1	z	0.45	0/4283	0.58	1/5847 (0.0%)
All	All	0.45	0/256980	0.58	60/350820 (0.0%)

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	434	ARG	CA-CB-CG	-5.57	102.96	114.10
1	U	434	ARG	CA-CB-CG	-5.57	102.96	114.10
1	q	434	ARG	CA-CB-CG	-5.57	102.96	114.10
1	s	434	ARG	CA-CB-CG	-5.57	102.96	114.10
1	2	434	ARG	CA-CB-CG	-5.57	102.96	114.10
1	F	434	ARG	CA-CB-CG	-5.57	102.97	114.10
1	M	434	ARG	CA-CB-CG	-5.57	102.96	114.10
1	y	434	ARG	CA-CB-CG	-5.57	102.97	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	434	ARG	CA-CB-CG	-5.57	102.97	114.10
1	V	434	ARG	CA-CB-CG	-5.57	102.97	114.10
1	g	434	ARG	CA-CB-CG	-5.57	102.97	114.10
1	h	434	ARG	CA-CB-CG	-5.57	102.97	114.10
1	m	434	ARG	CA-CB-CG	-5.57	102.97	114.10
1	p	434	ARG	CA-CB-CG	-5.57	102.97	114.10
1	1	434	ARG	CA-CB-CG	-5.57	102.97	114.10
1	O	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	Z	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	l	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	8	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	A	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	R	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	a	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	b	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	c	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	d	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	e	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	f	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	n	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	r	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	3	434	ARG	CA-CB-CG	-5.56	102.99	114.10
1	D	434	ARG	CA-CB-CG	-5.55	102.99	114.10
1	W	434	ARG	CA-CB-CG	-5.55	102.99	114.10
1	k	434	ARG	CA-CB-CG	-5.55	102.99	114.10
1	6	434	ARG	CA-CB-CG	-5.55	102.99	114.10
1	E	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	G	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	t	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	w	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	T	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	H	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	P	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	X	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	j	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	o	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	5	434	ARG	CA-CB-CG	-5.55	103.00	114.10
1	J	434	ARG	CA-CB-CG	-5.55	103.01	114.10
1	S	434	ARG	CA-CB-CG	-5.55	103.01	114.10
1	K	434	ARG	CA-CB-CG	-5.54	103.01	114.10
1	4	434	ARG	CA-CB-CG	-5.54	103.01	114.10
1	I	434	ARG	CA-CB-CG	-5.54	103.02	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	434	ARG	CA-CB-CG	-5.54	103.02	114.10
1	u	434	ARG	CA-CB-CG	-5.54	103.02	114.10
1	v	434	ARG	CA-CB-CG	-5.54	103.02	114.10
1	x	434	ARG	CA-CB-CG	-5.54	103.02	114.10
1	L	434	ARG	CA-CB-CG	-5.54	103.03	114.10
1	z	434	ARG	CA-CB-CG	-5.53	103.04	114.10
1	N	434	ARG	CA-CB-CG	-5.53	103.04	114.10
1	Y	434	ARG	CA-CB-CG	-5.53	103.04	114.10
1	i	434	ARG	CA-CB-CG	-5.53	103.04	114.10
1	7	434	ARG	CA-CB-CG	-5.53	103.04	114.10

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4152	0	3878	135	0
1	2	4152	0	3878	140	0
1	3	4152	0	3878	139	0
1	4	4152	0	3878	138	0
1	5	4152	0	3878	137	0
1	6	4152	0	3878	137	0
1	7	4152	0	3878	137	0
1	8	4152	0	3878	133	0
1	A	4152	0	3878	131	0
1	B	4152	0	3878	136	0
1	C	4152	0	3878	140	0
1	D	4152	0	3878	136	0
1	E	4152	0	3878	132	0
1	F	4152	0	3878	134	0
1	G	4152	0	3878	138	0
1	H	4152	0	3878	140	0
1	I	4152	0	3878	134	0
1	J	4152	0	3878	138	0
1	K	4152	0	3878	137	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	4152	0	3878	137	0
1	M	4152	0	3878	137	0
1	N	4152	0	3878	135	0
1	O	4152	0	3878	138	0
1	P	4152	0	3878	138	0
1	Q	4152	0	3878	132	0
1	R	4152	0	3878	136	0
1	S	4152	0	3878	137	0
1	T	4152	0	3878	136	0
1	U	4152	0	3878	136	0
1	V	4152	0	3878	137	0
1	W	4152	0	3878	138	0
1	X	4152	0	3878	140	0
1	Y	4152	0	3878	136	0
1	Z	4152	0	3878	134	0
1	a	4152	0	3878	141	0
1	b	4152	0	3878	140	0
1	c	4152	0	3878	134	0
1	d	4152	0	3878	138	0
1	e	4152	0	3878	134	0
1	f	4152	0	3878	139	0
1	g	4152	0	3878	138	0
1	h	4152	0	3878	136	0
1	i	4152	0	3878	135	0
1	j	4152	0	3878	137	0
1	k	4152	0	3878	137	0
1	l	4152	0	3878	141	0
1	m	4152	0	3878	135	0
1	n	4152	0	3878	138	0
1	o	4152	0	3878	140	0
1	p	4152	0	3878	137	0
1	q	4152	0	3878	136	0
1	r	4152	0	3878	138	0
1	s	4152	0	3878	136	0
1	t	4152	0	3878	138	0
1	u	4152	0	3878	135	0
1	v	4152	0	3878	135	0
1	w	4152	0	3878	132	0
1	x	4152	0	3878	132	0
1	y	4152	0	3878	134	0
1	z	4152	0	3878	139	0
2	1	22	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	2	22	0	12	1	0
2	3	22	0	12	1	0
2	4	22	0	12	1	0
2	5	22	0	12	1	0
2	6	22	0	12	1	0
2	7	22	0	12	1	0
2	8	22	0	12	1	0
2	A	22	0	12	1	0
2	B	22	0	12	1	0
2	C	22	0	12	1	0
2	D	22	0	12	1	0
2	E	22	0	12	1	0
2	F	22	0	12	1	0
2	G	22	0	12	1	0
2	H	22	0	12	1	0
2	I	22	0	12	1	0
2	J	22	0	12	1	0
2	K	22	0	12	1	0
2	L	22	0	12	1	0
2	M	22	0	12	1	0
2	N	22	0	12	1	0
2	O	22	0	12	1	0
2	P	22	0	12	1	0
2	Q	22	0	12	1	0
2	R	22	0	12	1	0
2	S	22	0	12	1	0
2	T	22	0	12	1	0
2	U	22	0	12	1	0
2	V	22	0	12	1	0
2	W	22	0	12	1	0
2	X	22	0	12	1	0
2	Y	22	0	12	1	0
2	Z	22	0	12	1	0
2	a	22	0	12	1	0
2	b	22	0	12	1	0
2	c	22	0	12	1	0
2	d	22	0	12	1	0
2	e	22	0	12	1	0
2	f	22	0	12	1	0
2	g	22	0	12	1	0
2	h	22	0	12	1	0
2	i	22	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	j	22	0	12	1	0
2	k	22	0	12	1	0
2	l	22	0	12	1	0
2	m	22	0	12	1	0
2	n	22	0	12	1	0
2	o	22	0	12	1	0
2	p	22	0	12	1	0
2	q	22	0	12	1	0
2	r	22	0	12	1	0
2	s	22	0	12	1	0
2	t	22	0	12	1	0
2	u	22	0	12	1	0
2	v	22	0	12	1	0
2	w	22	0	12	1	0
2	x	22	0	12	1	0
2	y	22	0	12	1	0
2	z	22	0	12	1	0
All	All	250440	0	233400	6368	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 13.

All (6368) 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:C:271:THR:O	1:M:434:ARG:NH1	2.01	0.94
1:X:271:THR:O	1:e:434:ARG:NH1	2.01	0.94
1:c:434:ARG:NH1	1:o:271:THR:O	2.01	0.94
1:g:271:THR:O	1:h:434:ARG:NH1	2.01	0.94
1:o:434:ARG:NH1	1:p:271:THR:O	2.01	0.94
1:V:271:THR:O	1:X:434:ARG:NH1	2.01	0.93
1:H:434:ARG:NH1	1:W:271:THR:O	2.01	0.93
1:N:434:ARG:NH1	1:P:271:THR:O	2.01	0.93
1:5:434:ARG:NH1	1:6:271:THR:O	2.01	0.93
1:i:434:ARG:NH1	1:j:271:THR:O	2.01	0.93
1:D:434:ARG:NH1	1:N:271:THR:O	2.01	0.93
1:6:434:ARG:NH1	1:7:271:THR:O	2.01	0.93
1:S:434:ARG:NH1	1:U:271:THR:O	2.01	0.93
1:W:434:ARG:NH1	1:Y:271:THR:O	2.01	0.93
1:i:271:THR:O	1:k:434:ARG:NH1	2.01	0.93
1:q:271:THR:O	1:s:434:ARG:NH1	2.01	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:271:THR:O	1:2:434:ARG:NH1	2.01	0.93
1:E:434:ARG:NH1	1:Q:271:THR:O	2.01	0.93
1:O:434:ARG:NH1	1:m:271:THR:O	2.01	0.93
1:T:271:THR:O	1:l:434:ARG:NH1	2.01	0.93
1:J:434:ARG:NH1	1:L:271:THR:O	2.02	0.93
1:R:271:THR:O	1:U:434:ARG:NH1	2.01	0.93
1:w:434:ARG:NH1	1:x:271:THR:O	2.01	0.93
1:R:434:ARG:NH1	1:S:271:THR:O	2.02	0.93
1:q:434:ARG:NH1	1:r:271:THR:O	2.02	0.93
1:K:271:THR:O	1:8:434:ARG:NH1	2.01	0.93
1:K:434:ARG:NH1	1:a:271:THR:O	2.01	0.93
1:r:434:ARG:NH1	1:s:271:THR:O	2.02	0.93
1:3:271:THR:O	1:4:434:ARG:NH1	2.01	0.93
1:G:434:ARG:NH1	1:I:271:THR:O	2.01	0.92
1:Z:434:ARG:NH1	1:4:271:THR:O	2.01	0.92
1:c:271:THR:O	1:p:434:ARG:NH1	2.01	0.92
1:t:434:ARG:NH1	1:u:271:THR:O	2.01	0.92
1:w:271:THR:O	1:y:434:ARG:NH1	2.01	0.92
1:E:271:THR:O	1:F:434:ARG:NH1	2.01	0.92
1:t:271:THR:O	1:v:434:ARG:NH1	2.01	0.92
1:A:271:THR:O	1:I:434:ARG:NH1	2.01	0.92
1:V:434:ARG:NH1	1:e:271:THR:O	2.01	0.92
1:d:434:ARG:NH1	1:l:271:THR:O	2.01	0.92
1:A:434:ARG:NH1	1:G:271:THR:O	2.02	0.92
1:O:271:THR:O	1:n:434:ARG:NH1	2.01	0.92
1:m:434:ARG:NH1	1:n:271:THR:O	2.01	0.92
1:1:434:ARG:NH1	1:2:271:THR:O	2.01	0.92
1:M:271:THR:O	1:b:434:ARG:NH1	2.01	0.92
1:T:434:ARG:NH1	1:d:271:THR:O	2.01	0.92
1:u:434:ARG:NH1	1:v:271:THR:O	2.01	0.92
1:z:434:ARG:NH1	1:1:271:THR:O	2.01	0.92
1:f:434:ARG:NH1	1:h:271:THR:O	2.01	0.92
1:j:434:ARG:NH1	1:k:271:THR:O	2.01	0.92
1:B:271:THR:O	1:L:434:ARG:NH1	2.02	0.91
1:D:271:THR:O	1:P:434:ARG:NH1	2.01	0.91
1:H:271:THR:O	1:Y:434:ARG:NH1	2.01	0.91
1:B:434:ARG:NH1	1:J:271:THR:O	2.02	0.91
1:C:434:ARG:NH1	1:b:271:THR:O	2.01	0.91
1:5:271:THR:O	1:7:434:ARG:NH1	2.01	0.91
1:x:434:ARG:NH1	1:y:271:THR:O	2.01	0.91
1:F:271:THR:O	1:Q:434:ARG:NH1	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:271:THR:O	1:g:434:ARG:NH1	2.01	0.91
1:a:434:ARG:NH1	1:8:271:THR:O	2.01	0.91
1:Z:271:THR:O	1:3:434:ARG:NH1	2.01	0.91
1:v:275:PHE:CZ	1:1:717:MET:HE3	2.15	0.81
1:M:275:PHE:CZ	1:c:717:MET:HE3	2.15	0.81
1:X:275:PHE:CZ	1:f:717:MET:HE3	2.15	0.81
1:b:717:MET:HE3	1:o:275:PHE:CZ	2.15	0.81
1:e:717:MET:HE3	1:h:275:PHE:CZ	2.15	0.81
1:F:717:MET:HE3	1:G:275:PHE:CZ	2.16	0.81
1:l:275:PHE:CZ	1:n:717:MET:HE3	2.16	0.81
1:N:717:MET:HE3	1:m:275:PHE:CZ	2.16	0.81
1:O:275:PHE:CZ	1:d:717:MET:HE3	2.16	0.81
1:t:275:PHE:CZ	1:y:717:MET:HE3	2.16	0.81
1:M:717:MET:HE3	1:N:275:PHE:CZ	2.16	0.81
1:S:717:MET:HE3	1:d:275:PHE:CZ	2.16	0.81
1:T:275:PHE:CZ	1:i:717:MET:HE3	2.16	0.81
1:H:717:MET:HE3	1:I:275:PHE:CZ	2.16	0.81
1:I:717:MET:HE3	1:J:275:PHE:CZ	2.16	0.81
1:h:717:MET:HE3	1:i:275:PHE:CZ	2.16	0.81
1:n:275:PHE:CZ	1:r:717:MET:HE3	2.16	0.81
1:F:275:PHE:CZ	1:R:717:MET:HE3	2.16	0.81
1:q:717:MET:HE3	1:y:275:PHE:CZ	2.16	0.81
1:u:717:MET:HE3	1:2:275:PHE:CZ	2.16	0.81
1:H:275:PHE:CZ	1:Z:717:MET:HE3	2.16	0.81
1:T:717:MET:HE3	1:U:275:PHE:CZ	2.15	0.81
1:U:717:MET:HE3	1:e:275:PHE:CZ	2.15	0.81
1:u:275:PHE:CZ	1:5:717:MET:HE3	2.16	0.81
1:v:717:MET:HE3	1:w:275:PHE:CZ	2.16	0.81
1:5:275:PHE:CZ	1:8:717:MET:HE3	2.16	0.81
1:A:275:PHE:CZ	1:B:717:MET:HE3	2.16	0.80
1:G:717:MET:HE3	1:W:275:PHE:CZ	2.16	0.80
1:g:717:MET:HE3	1:1:275:PHE:CZ	2.15	0.80
1:j:275:PHE:CZ	1:l:717:MET:HE3	2.16	0.80
1:t:717:MET:HE3	1:6:275:PHE:CZ	2.16	0.80
1:A:717:MET:HE3	1:E:275:PHE:CZ	2.16	0.80
1:C:275:PHE:CZ	1:D:717:MET:HE3	2.16	0.80
1:O:717:MET:HE3	1:P:275:PHE:CZ	2.16	0.80
1:R:275:PHE:CZ	1:V:717:MET:HE3	2.16	0.80
1:Z:275:PHE:CZ	1:a:717:MET:HE3	2.16	0.80
1:g:275:PHE:CZ	1:k:717:MET:HE3	2.16	0.80
1:p:717:MET:HE3	1:q:275:PHE:CZ	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:275:PHE:CZ	1:7:717:MET:HE3	2.16	0.80
1:X:717:MET:HE3	1:Y:275:PHE:CZ	2.16	0.80
1:o:717:MET:HE3	1:7:275:PHE:CZ	2.16	0.80
1:3:717:MET:HE3	1:8:275:PHE:CZ	2.16	0.80
1:L:717:MET:HE3	1:b:275:PHE:CZ	2.16	0.80
1:L:322:GLU:HG3	1:L:335:ASN:HB2	1.64	0.80
1:Y:717:MET:HE3	1:4:275:PHE:CZ	2.16	0.80
1:2:717:MET:HE3	1:3:275:PHE:CZ	2.16	0.80
1:P:717:MET:HE3	1:Q:275:PHE:CZ	2.16	0.80
1:f:275:PHE:CZ	1:z:717:MET:HE3	2.16	0.80
1:j:717:MET:HE3	1:x:275:PHE:CZ	2.16	0.80
1:z:322:GLU:HG3	1:z:335:ASN:HB2	1.64	0.80
1:8:322:GLU:HG3	1:8:335:ASN:HB2	1.64	0.80
1:J:717:MET:HE3	1:a:275:PHE:CZ	2.16	0.80
1:Z:322:GLU:HG3	1:Z:335:ASN:HB2	1.64	0.80
1:c:275:PHE:CZ	1:s:717:MET:HE3	2.16	0.80
1:m:717:MET:HE3	1:s:275:PHE:CZ	2.16	0.80
1:r:275:PHE:CZ	1:x:717:MET:HE3	2.16	0.80
1:D:275:PHE:CZ	1:E:717:MET:HE3	2.16	0.80
1:E:322:GLU:HG3	1:E:335:ASN:HB2	1.64	0.80
1:H:322:GLU:HG3	1:H:335:ASN:HB2	1.64	0.80
1:K:717:MET:HE3	1:L:275:PHE:CZ	2.16	0.80
1:j:322:GLU:HG3	1:j:335:ASN:HB2	1.64	0.80
1:k:275:PHE:CZ	1:w:717:MET:HE3	2.16	0.80
1:O:322:GLU:HG3	1:O:335:ASN:HB2	1.64	0.80
1:P:322:GLU:HG3	1:P:335:ASN:HB2	1.64	0.80
1:Q:717:MET:HE3	1:S:275:PHE:CZ	2.16	0.80
1:m:322:GLU:HG3	1:m:335:ASN:HB2	1.64	0.80
1:w:322:GLU:HG3	1:w:335:ASN:HB2	1.64	0.80
1:5:322:GLU:HG3	1:5:335:ASN:HB2	1.64	0.80
1:l:322:GLU:HG3	1:l:335:ASN:HB2	1.64	0.79
1:z:275:PHE:CZ	1:4:717:MET:HE3	2.16	0.79
1:B:275:PHE:CZ	1:C:717:MET:HE3	2.16	0.79
1:C:322:GLU:HG3	1:C:335:ASN:HB2	1.64	0.79
1:F:322:GLU:HG3	1:F:335:ASN:HB2	1.64	0.79
1:g:322:GLU:HG3	1:g:335:ASN:HB2	1.64	0.79
1:K:322:GLU:HG3	1:K:335:ASN:HB2	1.64	0.79
1:T:322:GLU:HG3	1:T:335:ASN:HB2	1.64	0.79
1:V:275:PHE:CZ	1:W:717:MET:HE3	2.16	0.79
1:o:322:GLU:HG3	1:o:335:ASN:HB2	1.64	0.79
1:y:322:GLU:HG3	1:y:335:ASN:HB2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:322:GLU:HG3	1:2:335:ASN:HB2	1.64	0.79
1:k:322:GLU:HG3	1:k:335:ASN:HB2	1.64	0.79
1:p:275:PHE:CZ	1:6:717:MET:HE3	2.16	0.79
1:4:322:GLU:HG3	1:4:335:ASN:HB2	1.64	0.79
1:D:322:GLU:HG3	1:D:335:ASN:HB2	1.64	0.79
1:J:322:GLU:HG3	1:J:335:ASN:HB2	1.64	0.79
1:R:322:GLU:HG3	1:R:335:ASN:HB2	1.64	0.79
1:X:322:GLU:HG3	1:X:335:ASN:HB2	1.64	0.79
1:b:322:GLU:HG3	1:b:335:ASN:HB2	1.64	0.79
1:f:322:GLU:HG3	1:f:335:ASN:HB2	1.64	0.79
1:N:322:GLU:HG3	1:N:335:ASN:HB2	1.64	0.79
1:i:322:GLU:HG3	1:i:335:ASN:HB2	1.64	0.79
1:q:322:GLU:HG3	1:q:335:ASN:HB2	1.64	0.79
1:Q:322:GLU:HG3	1:Q:335:ASN:HB2	1.64	0.79
1:s:322:GLU:HG3	1:s:335:ASN:HB2	1.64	0.79
1:u:322:GLU:HG3	1:u:335:ASN:HB2	1.64	0.79
1:U:322:GLU:HG3	1:U:335:ASN:HB2	1.64	0.79
1:I:322:GLU:HG3	1:I:335:ASN:HB2	1.64	0.79
1:a:322:GLU:HG3	1:a:335:ASN:HB2	1.64	0.79
1:n:322:GLU:HG3	1:n:335:ASN:HB2	1.64	0.79
1:x:322:GLU:HG3	1:x:335:ASN:HB2	1.64	0.79
1:3:322:GLU:HG3	1:3:335:ASN:HB2	1.64	0.79
1:c:322:GLU:HG3	1:c:335:ASN:HB2	1.64	0.78
1:d:322:GLU:HG3	1:d:335:ASN:HB2	1.64	0.78
1:B:322:GLU:HG3	1:B:335:ASN:HB2	1.64	0.78
1:e:322:GLU:HG3	1:e:335:ASN:HB2	1.64	0.78
1:1:322:GLU:HG3	1:1:335:ASN:HB2	1.64	0.78
1:V:322:GLU:HG3	1:V:335:ASN:HB2	1.64	0.78
1:Y:322:GLU:HG3	1:Y:335:ASN:HB2	1.64	0.78
1:p:322:GLU:HG3	1:p:335:ASN:HB2	1.64	0.78
1:6:322:GLU:HG3	1:6:335:ASN:HB2	1.64	0.78
1:7:322:GLU:HG3	1:7:335:ASN:HB2	1.64	0.78
1:W:322:GLU:HG3	1:W:335:ASN:HB2	1.64	0.78
1:h:322:GLU:HG3	1:h:335:ASN:HB2	1.64	0.78
1:A:322:GLU:HG3	1:A:335:ASN:HB2	1.64	0.78
1:M:322:GLU:HG3	1:M:335:ASN:HB2	1.64	0.78
1:r:322:GLU:HG3	1:r:335:ASN:HB2	1.64	0.78
1:v:322:GLU:HG3	1:v:335:ASN:HB2	1.64	0.78
1:S:322:GLU:HG3	1:S:335:ASN:HB2	1.64	0.77
1:G:322:GLU:HG3	1:G:335:ASN:HB2	1.64	0.77
1:t:322:GLU:HG3	1:t:335:ASN:HB2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:608:VAL:HG22	1:Y:611:MET:HE3	1.68	0.76
1:7:608:VAL:HG22	1:7:611:MET:HE3	1.68	0.76
1:2:608:VAL:HG22	1:2:611:MET:HE3	1.68	0.76
1:G:608:VAL:HG22	1:G:611:MET:HE3	1.68	0.76
1:J:608:VAL:HG22	1:J:611:MET:HE3	1.68	0.76
1:O:608:VAL:HG22	1:O:611:MET:HE3	1.68	0.76
1:Z:489:GLN:NE2	1:3:591:GLN:OE1	2.19	0.76
1:b:608:VAL:HG22	1:b:611:MET:HE3	1.68	0.76
1:f:608:VAL:HG22	1:f:611:MET:HE3	1.68	0.76
1:l:608:VAL:HG22	1:l:611:MET:HE3	1.68	0.76
1:t:608:VAL:HG22	1:t:611:MET:HE3	1.68	0.76
1:C:591:GLN:OE1	1:b:489:GLN:NE2	2.19	0.76
1:a:591:GLN:OE1	1:8:489:GLN:NE2	2.19	0.76
1:f:489:GLN:NE2	1:g:591:GLN:OE1	2.19	0.76
1:m:608:VAL:HG22	1:m:611:MET:HE3	1.68	0.76
1:r:608:VAL:HG22	1:r:611:MET:HE3	1.68	0.76
1:A:591:GLN:OE1	1:G:489:GLN:NE2	2.19	0.76
1:D:591:GLN:OE1	1:N:489:GLN:NE2	2.19	0.76
1:M:608:VAL:HG22	1:M:611:MET:HE3	1.68	0.76
1:S:608:VAL:HG22	1:S:611:MET:HE3	1.68	0.76
1:e:608:VAL:HG22	1:e:611:MET:HE3	1.68	0.76
1:h:608:VAL:HG22	1:h:611:MET:HE3	1.68	0.76
1:i:489:GLN:NE2	1:k:591:GLN:OE1	2.19	0.76
1:y:608:VAL:HG22	1:y:611:MET:HE3	1.68	0.76
1:5:608:VAL:HG22	1:5:611:MET:HE3	1.68	0.76
1:F:608:VAL:HG22	1:F:611:MET:HE3	1.68	0.76
1:H:608:VAL:HG22	1:H:611:MET:HE3	1.68	0.76
1:V:489:GLN:NE2	1:X:591:GLN:OE1	2.19	0.76
1:c:608:VAL:HG22	1:c:611:MET:HE3	1.68	0.76
1:o:591:GLN:OE1	1:p:489:GLN:NE2	2.19	0.76
1:6:608:VAL:HG22	1:6:611:MET:HE3	1.68	0.76
1:H:489:GLN:NE2	1:Y:591:GLN:OE1	2.19	0.76
1:T:608:VAL:HG22	1:T:611:MET:HE3	1.68	0.76
1:r:591:GLN:OE1	1:s:489:GLN:NE2	2.19	0.76
1:t:489:GLN:NE2	1:v:591:GLN:OE1	2.19	0.76
1:5:489:GLN:NE2	1:7:591:GLN:OE1	2.19	0.76
1:F:489:GLN:NE2	1:Q:591:GLN:OE1	2.19	0.75
1:W:608:VAL:HG22	1:W:611:MET:HE3	1.68	0.75
1:k:608:VAL:HG22	1:k:611:MET:HE3	1.68	0.75
1:x:608:VAL:HG22	1:x:611:MET:HE3	1.68	0.75
1:D:608:VAL:HG22	1:D:611:MET:HE3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:489:GLN:NE2	1:8:591:GLN:OE1	2.19	0.75
1:Q:608:VAL:HG22	1:Q:611:MET:HE3	1.68	0.75
1:w:489:GLN:NE2	1:y:591:GLN:OE1	2.19	0.75
1:x:591:GLN:OE1	1:y:489:GLN:NE2	2.19	0.75
1:z:591:GLN:OE1	1:1:489:GLN:NE2	2.19	0.75
1:D:489:GLN:NE2	1:P:591:GLN:OE1	2.19	0.75
1:E:489:GLN:NE2	1:F:591:GLN:OE1	2.19	0.75
1:N:591:GLN:OE1	1:P:489:GLN:NE2	2.19	0.75
1:N:608:VAL:HG22	1:N:611:MET:HE3	1.68	0.75
1:Z:591:GLN:OE1	1:4:489:GLN:NE2	2.19	0.75
1:c:489:GLN:NE2	1:p:591:GLN:OE1	2.19	0.75
1:m:591:GLN:OE1	1:n:489:GLN:NE2	2.19	0.75
1:q:489:GLN:NE2	1:s:591:GLN:OE1	2.19	0.75
1:B:489:GLN:NE2	1:L:591:GLN:OE1	2.19	0.75
1:B:608:VAL:HG22	1:B:611:MET:HE3	1.68	0.75
1:T:591:GLN:OE1	1:d:489:GLN:NE2	2.19	0.75
1:V:591:GLN:OE1	1:e:489:GLN:NE2	2.19	0.75
1:i:591:GLN:OE1	1:j:489:GLN:NE2	2.19	0.75
1:i:608:VAL:HG22	1:i:611:MET:HE3	1.68	0.75
1:j:591:GLN:OE1	1:k:489:GLN:NE2	2.19	0.75
1:1:608:VAL:HG22	1:1:611:MET:HE3	1.68	0.75
1:5:591:GLN:OE1	1:6:489:GLN:NE2	2.19	0.75
1:c:591:GLN:OE1	1:o:489:GLN:NE2	2.19	0.75
1:d:591:GLN:OE1	1:l:489:GLN:NE2	2.19	0.75
1:q:608:VAL:HG22	1:q:611:MET:HE3	1.68	0.75
1:3:489:GLN:NE2	1:4:591:GLN:OE1	2.19	0.75
1:3:608:VAL:HG22	1:3:611:MET:HE3	1.68	0.75
1:C:489:GLN:NE2	1:M:591:GLN:OE1	2.19	0.75
1:H:591:GLN:OE1	1:W:489:GLN:NE2	2.19	0.75
1:X:489:GLN:NE2	1:e:591:GLN:OE1	2.19	0.75
1:w:591:GLN:OE1	1:x:489:GLN:NE2	2.19	0.75
1:J:591:GLN:OE1	1:L:489:GLN:NE2	2.19	0.75
1:K:591:GLN:OE1	1:a:489:GLN:NE2	2.19	0.75
1:O:489:GLN:NE2	1:n:591:GLN:OE1	2.19	0.75
1:R:489:GLN:NE2	1:U:591:GLN:OE1	2.20	0.75
1:R:608:VAL:HG22	1:R:611:MET:HE3	1.68	0.75
1:V:608:VAL:HG22	1:V:611:MET:HE3	1.68	0.75
1:a:608:VAL:HG22	1:a:611:MET:HE3	1.68	0.75
1:g:489:GLN:NE2	1:h:591:GLN:OE1	2.19	0.75
1:p:608:VAL:HG22	1:p:611:MET:HE3	1.68	0.75
1:u:608:VAL:HG22	1:u:611:MET:HE3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:591:GLN:OE1	1:Q:489:GLN:NE2	2.19	0.75
1:I:608:VAL:HG22	1:I:611:MET:HE3	1.68	0.75
1:S:591:GLN:OE1	1:U:489:GLN:NE2	2.20	0.75
1:o:608:VAL:HG22	1:o:611:MET:HE3	1.68	0.75
1:z:489:GLN:NE2	1:2:591:GLN:OE1	2.19	0.75
1:X:608:VAL:HG22	1:X:611:MET:HE3	1.68	0.75
1:Z:608:VAL:HG22	1:Z:611:MET:HE3	1.68	0.75
1:s:608:VAL:HG22	1:s:611:MET:HE3	1.68	0.75
1:4:608:VAL:HG22	1:4:611:MET:HE3	1.68	0.75
1:O:591:GLN:OE1	1:m:489:GLN:NE2	2.19	0.74
1:P:608:VAL:HG22	1:P:611:MET:HE3	1.68	0.74
1:T:489:GLN:NE2	1:l:591:GLN:OE1	2.19	0.74
1:W:591:GLN:OE1	1:Y:489:GLN:NE2	2.19	0.74
1:K:608:VAL:HG22	1:K:611:MET:HE3	1.68	0.74
1:j:608:VAL:HG22	1:j:611:MET:HE3	1.68	0.74
1:6:591:GLN:OE1	1:7:489:GLN:NE2	2.19	0.74
1:8:608:VAL:HG22	1:8:611:MET:HE3	1.68	0.74
1:R:591:GLN:OE1	1:S:489:GLN:NE2	2.19	0.74
1:U:608:VAL:HG22	1:U:611:MET:HE3	1.68	0.74
1:t:591:GLN:OE1	1:u:489:GLN:NE2	2.19	0.74
1:w:608:VAL:HG22	1:w:611:MET:HE3	1.68	0.74
1:A:608:VAL:HG22	1:A:611:MET:HE3	1.68	0.74
1:B:591:GLN:OE1	1:J:489:GLN:NE2	2.19	0.74
1:E:608:VAL:HG22	1:E:611:MET:HE3	1.68	0.74
1:G:591:GLN:OE1	1:I:489:GLN:NE2	2.19	0.74
1:M:489:GLN:NE2	1:b:591:GLN:OE1	2.19	0.74
1:q:591:GLN:OE1	1:r:489:GLN:NE2	2.19	0.74
1:v:608:VAL:HG22	1:v:611:MET:HE3	1.68	0.74
1:f:591:GLN:OE1	1:h:489:GLN:NE2	2.19	0.74
1:u:591:GLN:OE1	1:v:489:GLN:NE2	2.19	0.74
1:A:489:GLN:NE2	1:I:591:GLN:OE1	2.19	0.74
1:v:275:PHE:CE2	1:1:717:MET:HE3	2.23	0.74
1:1:591:GLN:OE1	1:2:489:GLN:NE2	2.19	0.74
1:U:717:MET:HE3	1:e:275:PHE:CE2	2.23	0.74
1:C:608:VAL:HG22	1:C:611:MET:HE3	1.68	0.73
1:I:717:MET:HE3	1:J:275:PHE:CE2	2.24	0.73
1:Q:717:MET:HE3	1:S:275:PHE:CE2	2.24	0.73
1:c:275:PHE:CE2	1:s:717:MET:HE3	2.24	0.73
1:d:608:VAL:HG22	1:d:611:MET:HE3	1.68	0.73
1:r:275:PHE:CE2	1:x:717:MET:HE3	2.24	0.73
1:u:717:MET:HE3	1:2:275:PHE:CE2	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:275:PHE:CE2	1:D:717:MET:HE3	2.24	0.73
1:G:717:MET:HE3	1:W:275:PHE:CE2	2.24	0.73
1:O:717:MET:HE3	1:P:275:PHE:CE2	2.24	0.73
1:P:717:MET:HE3	1:Q:275:PHE:CE2	2.24	0.73
1:T:717:MET:HE3	1:U:275:PHE:CE2	2.23	0.73
1:g:608:VAL:HG22	1:g:611:MET:HE3	1.68	0.73
1:h:717:MET:HE3	1:i:275:PHE:CE2	2.24	0.73
1:j:717:MET:HE3	1:x:275:PHE:CE2	2.24	0.73
1:n:608:VAL:HG22	1:n:611:MET:HE3	1.68	0.73
1:t:717:MET:HE3	1:6:275:PHE:CE2	2.24	0.73
1:M:717:MET:HE3	1:N:275:PHE:CE2	2.24	0.73
1:g:275:PHE:CE2	1:k:717:MET:HE3	2.24	0.73
1:j:275:PHE:CE2	1:l:717:MET:HE3	2.24	0.73
1:p:275:PHE:CE2	1:6:717:MET:HE3	2.24	0.73
1:z:608:VAL:HG22	1:z:611:MET:HE3	1.68	0.73
1:J:717:MET:HE3	1:a:275:PHE:CE2	2.24	0.73
1:V:275:PHE:CE2	1:W:717:MET:HE3	2.24	0.73
1:2:717:MET:HE3	1:3:275:PHE:CE2	2.24	0.73
1:A:275:PHE:CE2	1:B:717:MET:HE3	2.24	0.73
1:D:275:PHE:CE2	1:E:717:MET:HE3	2.24	0.73
1:L:608:VAL:HG22	1:L:611:MET:HE3	1.68	0.73
1:k:275:PHE:CE2	1:w:717:MET:HE3	2.24	0.73
1:N:717:MET:HE3	1:m:275:PHE:CE2	2.24	0.73
1:T:275:PHE:CE2	1:i:717:MET:HE3	2.24	0.73
1:v:717:MET:HE3	1:w:275:PHE:CE2	2.24	0.72
1:A:717:MET:HE3	1:E:275:PHE:CE2	2.24	0.72
1:K:717:MET:HE3	1:L:275:PHE:CE2	2.24	0.72
1:n:275:PHE:CE2	1:r:717:MET:HE3	2.24	0.72
1:H:275:PHE:CE2	1:Z:717:MET:HE3	2.24	0.72
1:H:717:MET:HE3	1:I:275:PHE:CE2	2.24	0.72
1:O:275:PHE:CE2	1:d:717:MET:HE3	2.24	0.72
1:S:717:MET:HE3	1:d:275:PHE:CE2	2.24	0.72
1:g:717:MET:HE3	1:1:275:PHE:CE2	2.24	0.72
1:u:275:PHE:CE2	1:5:717:MET:HE3	2.24	0.72
1:5:275:PHE:CE2	1:8:717:MET:HE3	2.24	0.72
1:l:275:PHE:CE2	1:n:717:MET:HE3	2.24	0.72
1:m:717:MET:HE3	1:s:275:PHE:CE2	2.24	0.72
1:z:275:PHE:CE2	1:4:717:MET:HE3	2.24	0.72
1:X:275:PHE:CE2	1:f:717:MET:HE3	2.23	0.72
1:b:717:MET:HE3	1:o:275:PHE:CE2	2.23	0.72
1:3:717:MET:HE3	1:8:275:PHE:CE2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:275:PHE:CE2	1:a:717:MET:HE3	2.24	0.72
1:F:275:PHE:CE2	1:R:717:MET:HE3	2.24	0.72
1:F:717:MET:HE3	1:G:275:PHE:CE2	2.24	0.72
1:L:717:MET:HE3	1:b:275:PHE:CE2	2.24	0.72
1:t:275:PHE:CE2	1:y:717:MET:HE3	2.24	0.72
1:O:553:PRO:HD3	1:O:563:ASN:HB3	1.72	0.72
1:P:553:PRO:HD3	1:P:563:ASN:HB3	1.72	0.72
1:R:275:PHE:CE2	1:V:717:MET:HE3	2.24	0.72
1:e:717:MET:HE3	1:h:275:PHE:CE2	2.23	0.72
1:j:553:PRO:HD3	1:j:563:ASN:HB3	1.72	0.72
1:l:553:PRO:HD3	1:l:563:ASN:HB3	1.72	0.72
1:M:275:PHE:CE2	1:c:717:MET:HE3	2.23	0.72
1:f:275:PHE:CE2	1:z:717:MET:HE3	2.24	0.72
1:o:717:MET:HE3	1:7:275:PHE:CE2	2.24	0.72
1:p:717:MET:HE3	1:q:275:PHE:CE2	2.24	0.72
1:q:717:MET:HE3	1:y:275:PHE:CE2	2.24	0.72
1:B:275:PHE:CE2	1:C:717:MET:HE3	2.24	0.71
1:J:553:PRO:HD3	1:J:563:ASN:HB3	1.72	0.71
1:2:553:PRO:HD3	1:2:563:ASN:HB3	1.72	0.71
1:W:553:PRO:HD3	1:W:563:ASN:HB3	1.72	0.71
1:X:717:MET:HE3	1:Y:275:PHE:CE2	2.24	0.71
1:E:553:PRO:HD3	1:E:563:ASN:HB3	1.72	0.71
1:V:553:PRO:HD3	1:V:563:ASN:HB3	1.72	0.71
1:p:553:PRO:HD3	1:p:563:ASN:HB3	1.72	0.71
1:w:553:PRO:HD3	1:w:563:ASN:HB3	1.72	0.71
1:6:553:PRO:HD3	1:6:563:ASN:HB3	1.72	0.71
1:g:553:PRO:HD3	1:g:563:ASN:HB3	1.72	0.71
1:v:553:PRO:HD3	1:v:563:ASN:HB3	1.72	0.71
1:C:553:PRO:HD3	1:C:563:ASN:HB3	1.72	0.71
1:Y:717:MET:HE3	1:4:275:PHE:CE2	2.24	0.71
1:A:553:PRO:HD3	1:A:563:ASN:HB3	1.72	0.71
1:K:275:PHE:CE2	1:7:717:MET:HE3	2.24	0.71
1:S:553:PRO:HD3	1:S:563:ASN:HB3	1.72	0.71
1:n:553:PRO:HD3	1:n:563:ASN:HB3	1.72	0.71
1:x:553:PRO:HD3	1:x:563:ASN:HB3	1.72	0.71
1:Q:553:PRO:HD3	1:Q:563:ASN:HB3	1.72	0.71
1:d:553:PRO:HD3	1:d:563:ASN:HB3	1.72	0.71
1:r:553:PRO:HD3	1:r:563:ASN:HB3	1.72	0.71
1:B:553:PRO:HD3	1:B:563:ASN:HB3	1.72	0.71
1:F:553:PRO:HD3	1:F:563:ASN:HB3	1.72	0.71
1:1:553:PRO:HD3	1:1:563:ASN:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:553:PRO:HD3	1:M:563:ASN:HB3	1.72	0.71
1:a:553:PRO:HD3	1:a:563:ASN:HB3	1.72	0.71
1:h:553:PRO:HD3	1:h:563:ASN:HB3	1.72	0.71
1:y:553:PRO:HD3	1:y:563:ASN:HB3	1.72	0.71
1:3:553:PRO:HD3	1:3:563:ASN:HB3	1.72	0.71
1:N:553:PRO:HD3	1:N:563:ASN:HB3	1.72	0.70
1:i:553:PRO:HD3	1:i:563:ASN:HB3	1.72	0.70
1:q:553:PRO:HD3	1:q:563:ASN:HB3	1.72	0.70
1:R:553:PRO:HD3	1:R:563:ASN:HB3	1.72	0.70
1:G:553:PRO:HD3	1:G:563:ASN:HB3	1.72	0.70
1:b:553:PRO:HD3	1:b:563:ASN:HB3	1.72	0.70
1:f:553:PRO:HD3	1:f:563:ASN:HB3	1.72	0.70
1:t:553:PRO:HD3	1:t:563:ASN:HB3	1.72	0.70
1:I:553:PRO:HD3	1:I:563:ASN:HB3	1.72	0.70
1:U:553:PRO:HD3	1:U:563:ASN:HB3	1.72	0.70
1:s:553:PRO:HD3	1:s:563:ASN:HB3	1.72	0.70
1:u:553:PRO:HD3	1:u:563:ASN:HB3	1.72	0.70
1:D:553:PRO:HD3	1:D:563:ASN:HB3	1.72	0.70
1:Y:553:PRO:HD3	1:Y:563:ASN:HB3	1.72	0.70
1:c:553:PRO:HD3	1:c:563:ASN:HB3	1.72	0.70
1:T:553:PRO:HD3	1:T:563:ASN:HB3	1.72	0.70
1:e:553:PRO:HD3	1:e:563:ASN:HB3	1.72	0.70
1:k:553:PRO:HD3	1:k:563:ASN:HB3	1.72	0.70
1:o:553:PRO:HD3	1:o:563:ASN:HB3	1.72	0.70
1:4:553:PRO:HD3	1:4:563:ASN:HB3	1.72	0.70
1:5:553:PRO:HD3	1:5:563:ASN:HB3	1.72	0.70
1:7:553:PRO:HD3	1:7:563:ASN:HB3	1.72	0.70
1:H:553:PRO:HD3	1:H:563:ASN:HB3	1.72	0.70
1:K:553:PRO:HD3	1:K:563:ASN:HB3	1.72	0.70
1:X:553:PRO:HD3	1:X:563:ASN:HB3	1.72	0.70
1:L:553:PRO:HD3	1:L:563:ASN:HB3	1.72	0.69
1:m:553:PRO:HD3	1:m:563:ASN:HB3	1.72	0.69
1:z:553:PRO:HD3	1:z:563:ASN:HB3	1.72	0.69
1:Z:553:PRO:HD3	1:Z:563:ASN:HB3	1.72	0.69
1:8:553:PRO:HD3	1:8:563:ASN:HB3	1.72	0.69
1:L:353:VAL:H	1:L:652:GLN:HE22	1.41	0.69
1:a:353:VAL:H	1:a:652:GLN:HE22	1.41	0.69
1:q:353:VAL:H	1:q:652:GLN:HE22	1.41	0.69
1:z:353:VAL:H	1:z:652:GLN:HE22	1.41	0.69
1:3:353:VAL:H	1:3:652:GLN:HE22	1.41	0.69
1:R:353:VAL:H	1:R:652:GLN:HE22	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:353:VAL:H	1:T:652:GLN:HE22	1.41	0.69
1:U:353:VAL:H	1:U:652:GLN:HE22	1.41	0.69
1:m:353:VAL:H	1:m:652:GLN:HE22	1.41	0.69
1:x:353:VAL:H	1:x:652:GLN:HE22	1.41	0.69
1:4:353:VAL:H	1:4:652:GLN:HE22	1.41	0.69
1:Q:353:VAL:H	1:Q:652:GLN:HE22	1.41	0.68
1:s:353:VAL:H	1:s:652:GLN:HE22	1.41	0.68
1:1:353:VAL:H	1:1:652:GLN:HE22	1.41	0.68
1:B:353:VAL:H	1:B:652:GLN:HE22	1.41	0.68
1:K:353:VAL:H	1:K:652:GLN:HE22	1.41	0.68
1:w:353:VAL:H	1:w:652:GLN:HE22	1.41	0.68
1:E:353:VAL:H	1:E:652:GLN:HE22	1.41	0.68
1:H:353:VAL:H	1:H:652:GLN:HE22	1.41	0.68
1:7:353:VAL:H	1:7:652:GLN:HE22	1.41	0.68
1:Y:353:VAL:H	1:Y:652:GLN:HE22	1.41	0.68
1:5:353:VAL:H	1:5:652:GLN:HE22	1.41	0.68
1:u:353:VAL:H	1:u:652:GLN:HE22	1.41	0.68
1:I:353:VAL:H	1:I:652:GLN:HE22	1.41	0.67
1:e:353:VAL:H	1:e:652:GLN:HE22	1.41	0.67
1:2:353:VAL:H	1:2:652:GLN:HE22	1.41	0.67
1:M:353:VAL:H	1:M:652:GLN:HE22	1.41	0.67
1:c:353:VAL:H	1:c:652:GLN:HE22	1.41	0.67
1:d:353:VAL:H	1:d:652:GLN:HE22	1.41	0.67
1:i:353:VAL:H	1:i:652:GLN:HE22	1.41	0.67
1:n:353:VAL:H	1:n:652:GLN:HE22	1.41	0.67
1:J:353:VAL:H	1:J:652:GLN:HE22	1.41	0.67
1:h:353:VAL:H	1:h:652:GLN:HE22	1.41	0.67
1:N:353:VAL:H	1:N:652:GLN:HE22	1.41	0.67
1:X:353:VAL:H	1:X:652:GLN:HE22	1.41	0.67
1:b:353:VAL:H	1:b:652:GLN:HE22	1.41	0.67
1:o:353:VAL:H	1:o:652:GLN:HE22	1.41	0.67
1:S:353:VAL:H	1:S:652:GLN:HE22	1.41	0.67
1:f:353:VAL:H	1:f:652:GLN:HE22	1.41	0.67
1:v:353:VAL:H	1:v:652:GLN:HE22	1.41	0.67
1:O:353:VAL:H	1:O:652:GLN:HE22	1.41	0.67
1:l:353:VAL:H	1:l:652:GLN:HE22	1.41	0.67
1:r:353:VAL:H	1:r:652:GLN:HE22	1.41	0.67
1:A:353:VAL:H	1:A:652:GLN:HE22	1.41	0.66
1:P:353:VAL:H	1:P:652:GLN:HE22	1.41	0.66
1:Z:353:VAL:H	1:Z:652:GLN:HE22	1.41	0.66
1:j:353:VAL:H	1:j:652:GLN:HE22	1.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:353:VAL:H	1:8:652:GLN:HE22	1.41	0.66
1:G:353:VAL:H	1:G:652:GLN:HE22	1.41	0.66
1:g:353:VAL:H	1:g:652:GLN:HE22	1.41	0.66
1:t:353:VAL:H	1:t:652:GLN:HE22	1.41	0.66
1:p:353:VAL:H	1:p:652:GLN:HE22	1.41	0.66
1:6:353:VAL:H	1:6:652:GLN:HE22	1.41	0.66
1:C:353:VAL:H	1:C:652:GLN:HE22	1.41	0.66
1:V:353:VAL:H	1:V:652:GLN:HE22	1.41	0.66
1:W:353:VAL:H	1:W:652:GLN:HE22	1.41	0.66
1:D:353:VAL:H	1:D:652:GLN:HE22	1.41	0.66
1:k:353:VAL:H	1:k:652:GLN:HE22	1.41	0.65
1:F:353:VAL:H	1:F:652:GLN:HE22	1.41	0.65
1:M:283:ASP:HA	1:M:354:MET:HE3	1.79	0.65
1:o:283:ASP:HA	1:o:354:MET:HE3	1.79	0.65
1:r:283:ASP:HA	1:r:354:MET:HE3	1.79	0.65
1:y:353:VAL:H	1:y:652:GLN:HE22	1.41	0.65
1:X:283:ASP:HA	1:X:354:MET:HE3	1.79	0.65
1:h:283:ASP:HA	1:h:354:MET:HE3	1.79	0.65
1:S:283:ASP:HA	1:S:354:MET:HE3	1.79	0.65
1:Y:283:ASP:HA	1:Y:354:MET:HE3	1.79	0.65
1:a:283:ASP:HA	1:a:354:MET:HE3	1.79	0.65
1:3:283:ASP:HA	1:3:354:MET:HE3	1.79	0.65
1:4:283:ASP:HA	1:4:354:MET:HE3	1.79	0.65
1:7:283:ASP:HA	1:7:354:MET:HE3	1.79	0.65
1:K:283:ASP:HA	1:K:354:MET:HE3	1.79	0.65
1:Q:283:ASP:HA	1:Q:354:MET:HE3	1.79	0.65
1:x:283:ASP:HA	1:x:354:MET:HE3	1.79	0.65
1:z:283:ASP:HA	1:z:354:MET:HE3	1.79	0.65
1:Z:283:ASP:HA	1:Z:354:MET:HE3	1.79	0.64
1:p:283:ASP:HA	1:p:354:MET:HE3	1.79	0.64
1:u:283:ASP:HA	1:u:354:MET:HE3	1.79	0.64
1:L:283:ASP:HA	1:L:354:MET:HE3	1.79	0.64
1:V:283:ASP:HA	1:V:354:MET:HE3	1.79	0.64
1:W:283:ASP:HA	1:W:354:MET:HE3	1.79	0.64
1:j:283:ASP:HA	1:j:354:MET:HE3	1.79	0.64
1:8:283:ASP:HA	1:8:354:MET:HE3	1.79	0.64
1:B:283:ASP:HA	1:B:354:MET:HE3	1.79	0.64
1:P:283:ASP:HA	1:P:354:MET:HE3	1.79	0.64
1:6:283:ASP:HA	1:6:354:MET:HE3	1.79	0.64
1:A:283:ASP:HA	1:A:354:MET:HE3	1.79	0.64
1:I:283:ASP:HA	1:I:354:MET:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:283:ASP:HA	1:v:354:MET:HE3	1.79	0.64
1:5:283:ASP:HA	1:5:354:MET:HE3	1.79	0.64
1:H:283:ASP:HA	1:H:354:MET:HE3	1.79	0.64
1:1:283:ASP:HA	1:1:354:MET:HE3	1.79	0.64
1:g:717:MET:HE3	1:1:275:PHE:HZ	1.63	0.64
1:w:283:ASP:HA	1:w:354:MET:HE3	1.79	0.64
1:E:283:ASP:HA	1:E:354:MET:HE3	1.79	0.64
1:v:275:PHE:HZ	1:1:717:MET:HE3	1.63	0.64
1:F:283:ASP:HA	1:F:354:MET:HE3	1.79	0.64
1:y:283:ASP:HA	1:y:354:MET:HE3	1.79	0.64
1:J:283:ASP:HA	1:J:354:MET:HE3	1.79	0.63
1:N:283:ASP:HA	1:N:354:MET:HE3	1.79	0.63
1:R:283:ASP:HA	1:R:354:MET:HE3	1.79	0.63
1:2:283:ASP:HA	1:2:354:MET:HE3	1.79	0.63
1:i:283:ASP:HA	1:i:354:MET:HE3	1.79	0.63
1:k:283:ASP:HA	1:k:354:MET:HE3	1.79	0.63
1:t:275:PHE:HZ	1:y:717:MET:HE3	1.64	0.63
1:A:645:GLY:H	2:A:801:D5M:HN62	1.47	0.63
1:q:283:ASP:HA	1:q:354:MET:HE3	1.79	0.63
1:u:645:GLY:H	2:u:801:D5M:HN62	1.47	0.63
1:6:645:GLY:H	2:6:801:D5M:HN62	1.47	0.63
1:D:283:ASP:HA	1:D:354:MET:HE3	1.79	0.63
1:M:645:GLY:H	2:M:801:D5M:HN62	1.47	0.63
1:W:645:GLY:H	2:W:801:D5M:HN62	1.47	0.63
1:b:283:ASP:HA	1:b:354:MET:HE3	1.79	0.63
1:t:283:ASP:HA	1:t:354:MET:HE3	1.79	0.63
1:v:645:GLY:H	2:v:801:D5M:HN62	1.47	0.63
1:I:645:GLY:H	2:I:801:D5M:HN62	1.47	0.63
1:O:283:ASP:HA	1:O:354:MET:HE3	1.79	0.63
1:Y:645:GLY:H	2:Y:801:D5M:HN62	1.47	0.63
1:c:283:ASP:HA	1:c:354:MET:HE3	1.79	0.63
1:f:283:ASP:O	1:f:361:SER:HA	1.99	0.63
1:f:283:ASP:HA	1:f:354:MET:HE3	1.79	0.63
1:h:645:GLY:H	2:h:801:D5M:HN62	1.47	0.63
1:l:283:ASP:HA	1:l:354:MET:HE3	1.79	0.63
1:s:283:ASP:HA	1:s:354:MET:HE3	1.79	0.63
1:A:275:PHE:HZ	1:B:717:MET:HE3	1.64	0.63
1:L:645:GLY:H	2:L:801:D5M:HN62	1.47	0.63
1:S:645:GLY:H	2:S:801:D5M:HN62	1.47	0.63
1:Z:283:ASP:O	1:Z:361:SER:HA	1.99	0.63
1:b:283:ASP:O	1:b:361:SER:HA	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:283:ASP:HA	1:e:354:MET:HE3	1.79	0.63
1:i:283:ASP:O	1:i:361:SER:HA	1.99	0.63
1:r:645:GLY:H	2:r:801:D5M:HN62	1.47	0.63
1:7:645:GLY:H	2:7:801:D5M:HN62	1.47	0.63
1:8:283:ASP:O	1:8:361:SER:HA	1.99	0.63
1:F:283:ASP:O	1:F:361:SER:HA	1.99	0.63
1:G:283:ASP:HA	1:G:354:MET:HE3	1.79	0.63
1:K:283:ASP:O	1:K:361:SER:HA	1.99	0.63
1:N:283:ASP:O	1:N:361:SER:HA	1.99	0.63
1:T:283:ASP:HA	1:T:354:MET:HE3	1.79	0.63
1:m:283:ASP:HA	1:m:354:MET:HE3	1.79	0.63
1:o:645:GLY:H	2:o:801:D5M:HN62	1.47	0.63
1:y:283:ASP:O	1:y:361:SER:HA	1.99	0.63
1:4:283:ASP:O	1:4:361:SER:HA	1.99	0.63
1:B:275:PHE:HZ	1:C:717:MET:HE3	1.64	0.63
1:J:645:GLY:H	2:J:801:D5M:HN62	1.47	0.63
1:M:283:ASP:O	1:M:361:SER:HA	1.99	0.63
1:M:717:MET:HE3	1:N:275:PHE:HZ	1.63	0.63
1:S:717:MET:HE3	1:d:275:PHE:HZ	1.64	0.63
1:U:283:ASP:HA	1:U:354:MET:HE3	1.79	0.63
1:V:283:ASP:O	1:V:361:SER:HA	1.99	0.63
1:X:645:GLY:H	2:X:801:D5M:HN62	1.47	0.63
1:p:283:ASP:O	1:p:361:SER:HA	1.99	0.63
1:z:645:GLY:H	2:z:801:D5M:HN62	1.47	0.63
1:2:645:GLY:H	2:2:801:D5M:HN62	1.47	0.63
1:H:283:ASP:O	1:H:361:SER:HA	1.99	0.63
1:P:286:ARG:HD3	1:P:621:GLN:O	1.99	0.63
1:T:286:ARG:HD3	1:T:621:GLN:O	1.99	0.63
1:W:283:ASP:O	1:W:361:SER:HA	1.99	0.63
1:c:286:ARG:HD3	1:c:621:GLN:O	1.99	0.63
1:h:283:ASP:O	1:h:361:SER:HA	1.99	0.63
1:h:717:MET:HE3	1:i:275:PHE:HZ	1.63	0.63
1:j:286:ARG:HD3	1:j:621:GLN:O	1.99	0.63
1:l:645:GLY:H	2:l:801:D5M:HN62	1.47	0.63
1:v:283:ASP:O	1:v:361:SER:HA	1.99	0.63
1:5:283:ASP:O	1:5:361:SER:HA	1.99	0.63
1:D:645:GLY:H	2:D:801:D5M:HN62	1.47	0.62
1:G:283:ASP:O	1:G:361:SER:HA	1.99	0.62
1:K:275:PHE:HZ	1:7:717:MET:HE3	1.64	0.62
1:O:645:GLY:H	2:O:801:D5M:HN62	1.47	0.62
1:Q:645:GLY:H	2:Q:801:D5M:HN62	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:286:ARG:HD3	1:X:621:GLN:O	1.99	0.62
1:e:286:ARG:HD3	1:e:621:GLN:O	1.99	0.62
1:n:275:PHE:HZ	1:r:717:MET:HE3	1.64	0.62
1:o:286:ARG:HD3	1:o:621:GLN:O	1.99	0.62
1:p:286:ARG:HD3	1:p:621:GLN:O	1.99	0.62
1:x:645:GLY:H	2:x:801:D5M:HN62	1.47	0.62
1:2:283:ASP:O	1:2:361:SER:HA	1.99	0.62
1:4:645:GLY:H	2:4:801:D5M:HN62	1.47	0.62
1:6:283:ASP:O	1:6:361:SER:HA	1.99	0.62
1:A:283:ASP:O	1:A:361:SER:HA	1.99	0.62
1:A:286:ARG:HD3	1:A:621:GLN:O	1.99	0.62
1:C:283:ASP:O	1:C:361:SER:HA	1.99	0.62
1:J:283:ASP:O	1:J:361:SER:HA	1.99	0.62
1:K:645:GLY:H	2:K:801:D5M:HN62	1.47	0.62
1:O:283:ASP:O	1:O:361:SER:HA	1.99	0.62
1:R:275:PHE:HZ	1:V:717:MET:HE3	1.64	0.62
1:T:283:ASP:O	1:T:361:SER:HA	1.99	0.62
1:V:286:ARG:HD3	1:V:621:GLN:O	1.99	0.62
1:Z:286:ARG:HD3	1:Z:621:GLN:O	1.99	0.62
1:m:286:ARG:HD3	1:m:621:GLN:O	1.99	0.62
1:n:283:ASP:HA	1:n:354:MET:HE3	1.79	0.62
1:t:283:ASP:O	1:t:361:SER:HA	1.99	0.62
1:u:286:ARG:HD3	1:u:621:GLN:O	1.99	0.62
1:v:286:ARG:HD3	1:v:621:GLN:O	1.99	0.62
1:x:283:ASP:O	1:x:361:SER:HA	1.99	0.62
1:5:286:ARG:HD3	1:5:621:GLN:O	1.99	0.62
1:8:286:ARG:HD3	1:8:621:GLN:O	1.99	0.62
1:H:286:ARG:HD3	1:H:621:GLN:O	1.99	0.62
1:I:286:ARG:HD3	1:I:621:GLN:O	1.99	0.62
1:Q:283:ASP:O	1:Q:361:SER:HA	1.99	0.62
1:R:548:PHE:HB2	1:R:565:LEU:HB2	1.82	0.62
1:Y:717:MET:HE3	1:4:275:PHE:HZ	1.64	0.62
1:g:283:ASP:O	1:g:361:SER:HA	1.99	0.62
1:k:645:GLY:H	2:k:801:D5M:HN62	1.47	0.62
1:n:548:PHE:HB2	1:n:565:LEU:HB2	1.82	0.62
1:p:717:MET:HE3	1:q:275:PHE:HZ	1.64	0.62
1:q:548:PHE:HB2	1:q:565:LEU:HB2	1.82	0.62
1:C:548:PHE:HB2	1:C:565:LEU:HB2	1.82	0.62
1:O:548:PHE:HB2	1:O:565:LEU:HB2	1.82	0.62
1:V:548:PHE:HB2	1:V:565:LEU:HB2	1.82	0.62
1:X:548:PHE:HB2	1:X:565:LEU:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:286:ARG:HD3	1:Y:621:GLN:O	1.99	0.62
1:Y:548:PHE:HB2	1:Y:565:LEU:HB2	1.82	0.62
1:d:283:ASP:HA	1:d:354:MET:HE3	1.79	0.62
1:d:548:PHE:HB2	1:d:565:LEU:HB2	1.82	0.62
1:e:645:GLY:H	2:e:801:D5M:HN62	1.47	0.62
1:l:283:ASP:O	1:l:361:SER:HA	1.99	0.62
1:l:548:PHE:HB2	1:l:565:LEU:HB2	1.82	0.62
1:m:283:ASP:O	1:m:361:SER:HA	1.99	0.62
1:o:283:ASP:O	1:o:361:SER:HA	1.99	0.62
1:p:548:PHE:HB2	1:p:565:LEU:HB2	1.82	0.62
1:7:548:PHE:HB2	1:7:565:LEU:HB2	1.82	0.62
1:C:283:ASP:HA	1:C:354:MET:HE3	1.79	0.62
1:M:286:ARG:HD3	1:M:621:GLN:O	1.99	0.62
1:N:286:ARG:HD3	1:N:621:GLN:O	1.99	0.62
1:N:717:MET:HE3	1:m:275:PHE:HZ	1.64	0.62
1:R:286:ARG:HD3	1:R:621:GLN:O	1.99	0.62
1:X:283:ASP:O	1:X:361:SER:HA	1.99	0.62
1:b:548:PHE:HB2	1:b:565:LEU:HB2	1.82	0.62
1:c:645:GLY:H	2:c:801:D5M:HN62	1.47	0.62
1:g:548:PHE:HB2	1:g:565:LEU:HB2	1.82	0.62
1:n:286:ARG:HD3	1:n:621:GLN:O	1.99	0.62
1:o:548:PHE:HB2	1:o:565:LEU:HB2	1.82	0.62
1:w:286:ARG:HD3	1:w:621:GLN:O	1.99	0.62
1:7:286:ARG:HD3	1:7:621:GLN:O	1.99	0.62
1:B:548:PHE:HB2	1:B:565:LEU:HB2	1.82	0.62
1:B:645:GLY:H	2:B:801:D5M:HN62	1.47	0.62
1:C:286:ARG:HD3	1:C:621:GLN:O	1.99	0.62
1:E:286:ARG:HD3	1:E:621:GLN:O	1.99	0.62
1:F:645:GLY:H	2:F:801:D5M:HN62	1.47	0.62
1:G:717:MET:HE3	1:W:275:PHE:HZ	1.64	0.62
1:L:283:ASP:O	1:L:361:SER:HA	1.99	0.62
1:P:283:ASP:O	1:P:361:SER:HA	1.99	0.62
1:S:286:ARG:HD3	1:S:621:GLN:O	1.99	0.62
1:T:275:PHE:HZ	1:i:717:MET:HE3	1.64	0.62
1:d:286:ARG:HD3	1:d:621:GLN:O	1.99	0.62
1:f:548:PHE:HB2	1:f:565:LEU:HB2	1.82	0.62
1:h:286:ARG:HD3	1:h:621:GLN:O	1.99	0.62
1:i:548:PHE:HB2	1:i:565:LEU:HB2	1.82	0.62
1:q:286:ARG:HD3	1:q:621:GLN:O	1.99	0.62
1:u:548:PHE:HB2	1:u:565:LEU:HB2	1.82	0.62
1:y:645:GLY:H	2:y:801:D5M:HN62	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:548:PHE:HB2	1:1:565:LEU:HB2	1.82	0.62
1:6:548:PHE:HB2	1:6:565:LEU:HB2	1.82	0.62
1:I:548:PHE:HB2	1:I:565:LEU:HB2	1.82	0.62
1:W:548:PHE:HB2	1:W:565:LEU:HB2	1.82	0.62
1:g:283:ASP:HA	1:g:354:MET:HE3	1.79	0.62
1:i:286:ARG:HD3	1:i:621:GLN:O	1.99	0.62
1:j:283:ASP:O	1:j:361:SER:HA	1.99	0.62
1:r:286:ARG:HD3	1:r:621:GLN:O	1.99	0.62
1:t:717:MET:HE3	1:6:275:PHE:HZ	1.64	0.62
1:1:645:GLY:H	2:1:801:D5M:HN62	1.47	0.62
1:N:548:PHE:HB2	1:N:565:LEU:HB2	1.82	0.62
1:U:717:MET:HE3	1:e:275:PHE:HZ	1.63	0.62
1:a:283:ASP:O	1:a:361:SER:HA	1.99	0.62
1:a:548:PHE:HB2	1:a:565:LEU:HB2	1.82	0.62
1:d:645:GLY:H	2:d:801:D5M:HN62	1.47	0.62
1:h:548:PHE:HB2	1:h:565:LEU:HB2	1.82	0.62
1:n:645:GLY:H	2:n:801:D5M:HN62	1.47	0.62
1:p:645:GLY:H	2:p:801:D5M:HN62	1.47	0.62
1:2:286:ARG:HD3	1:2:621:GLN:O	1.99	0.62
1:3:283:ASP:O	1:3:361:SER:HA	1.99	0.62
1:D:286:ARG:HD3	1:D:621:GLN:O	1.99	0.62
1:J:286:ARG:HD3	1:J:621:GLN:O	1.99	0.62
1:K:286:ARG:HD3	1:K:621:GLN:O	1.99	0.62
1:M:548:PHE:HB2	1:M:565:LEU:HB2	1.82	0.62
1:O:286:ARG:HD3	1:O:621:GLN:O	1.99	0.62
1:P:645:GLY:H	2:P:801:D5M:HN62	1.47	0.62
1:V:645:GLY:H	2:V:801:D5M:HN62	1.47	0.62
1:b:645:GLY:H	2:b:801:D5M:HN62	1.47	0.62
1:f:286:ARG:HD3	1:f:621:GLN:O	1.99	0.62
1:g:286:ARG:HD3	1:g:621:GLN:O	1.99	0.62
1:j:645:GLY:H	2:j:801:D5M:HN62	1.47	0.62
1:z:283:ASP:O	1:z:361:SER:HA	1.99	0.62
1:3:548:PHE:HB2	1:3:565:LEU:HB2	1.82	0.62
1:F:548:PHE:HB2	1:F:565:LEU:HB2	1.82	0.62
1:K:548:PHE:HB2	1:K:565:LEU:HB2	1.82	0.62
1:K:717:MET:HE3	1:L:275:PHE:HZ	1.64	0.62
1:U:283:ASP:O	1:U:361:SER:HA	1.99	0.62
1:b:286:ARG:HD3	1:b:621:GLN:O	1.99	0.62
1:f:645:GLY:H	2:f:801:D5M:HN62	1.47	0.62
1:k:283:ASP:O	1:k:361:SER:HA	1.99	0.62
1:k:286:ARG:HD3	1:k:621:GLN:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:286:ARG:HD3	1:l:621:GLN:O	1.99	0.62
1:y:548:PHE:HB2	1:y:565:LEU:HB2	1.82	0.62
1:4:286:ARG:HD3	1:4:621:GLN:O	1.99	0.62
1:L:286:ARG:HD3	1:L:621:GLN:O	1.99	0.61
1:j:548:PHE:HB2	1:j:565:LEU:HB2	1.82	0.61
1:z:286:ARG:HD3	1:z:621:GLN:O	1.99	0.61
1:4:548:PHE:HB2	1:4:565:LEU:HB2	1.82	0.61
1:D:283:ASP:O	1:D:361:SER:HA	1.99	0.61
1:H:548:PHE:HB2	1:H:565:LEU:HB2	1.82	0.61
1:I:717:MET:HE3	1:J:275:PHE:HZ	1.64	0.61
1:R:283:ASP:O	1:R:361:SER:HA	1.99	0.61
1:U:645:GLY:H	2:U:801:D5M:HN62	1.47	0.61
1:q:283:ASP:O	1:q:361:SER:HA	1.99	0.61
1:s:283:ASP:O	1:s:361:SER:HA	1.99	0.61
1:s:286:ARG:HD3	1:s:621:GLN:O	1.99	0.61
1:u:283:ASP:O	1:u:361:SER:HA	1.99	0.61
1:E:283:ASP:O	1:E:361:SER:HA	1.99	0.61
1:O:717:MET:HE3	1:P:275:PHE:HZ	1.64	0.61
1:P:548:PHE:HB2	1:P:565:LEU:HB2	1.82	0.61
1:T:548:PHE:HB2	1:T:565:LEU:HB2	1.82	0.61
1:U:286:ARG:HD3	1:U:621:GLN:O	1.99	0.61
1:j:275:PHE:HZ	1:l:717:MET:HE3	1.64	0.61
1:m:548:PHE:HB2	1:m:565:LEU:HB2	1.82	0.61
1:r:283:ASP:O	1:r:361:SER:HA	1.99	0.61
1:s:645:GLY:H	2:s:801:D5M:HN62	1.47	0.61
1:x:286:ARG:HD3	1:x:621:GLN:O	1.99	0.61
1:B:283:ASP:O	1:B:361:SER:HA	1.99	0.61
1:I:283:ASP:O	1:I:361:SER:HA	1.99	0.61
1:N:645:GLY:H	2:N:801:D5M:HN62	1.47	0.61
1:U:548:PHE:HB2	1:U:565:LEU:HB2	1.82	0.61
1:a:286:ARG:HD3	1:a:621:GLN:O	1.99	0.61
1:i:645:GLY:H	2:i:801:D5M:HN62	1.47	0.61
1:n:283:ASP:O	1:n:361:SER:HA	1.99	0.61
1:u:717:MET:HE3	1:2:275:PHE:HZ	1.64	0.61
1:w:283:ASP:O	1:w:361:SER:HA	1.99	0.61
1:y:286:ARG:HD3	1:y:621:GLN:O	1.99	0.61
1:z:275:PHE:HZ	1:4:717:MET:HE3	1.64	0.61
1:3:286:ARG:HD3	1:3:621:GLN:O	1.99	0.61
1:5:548:PHE:HB2	1:5:565:LEU:HB2	1.82	0.61
1:F:286:ARG:HD3	1:F:621:GLN:O	1.99	0.61
1:Q:286:ARG:HD3	1:Q:621:GLN:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:283:ASP:O	1:S:361:SER:HA	1.99	0.61
1:X:717:MET:HE3	1:Y:275:PHE:HZ	1.63	0.61
1:Z:548:PHE:HB2	1:Z:565:LEU:HB2	1.82	0.61
1:l:275:PHE:HZ	1:n:717:MET:HE3	1.64	0.61
1:1:283:ASP:O	1:1:361:SER:HA	1.99	0.61
1:8:548:PHE:HB2	1:8:565:LEU:HB2	1.82	0.61
1:A:548:PHE:HB2	1:A:565:LEU:HB2	1.82	0.61
1:H:645:GLY:H	2:H:801:D5M:HN62	1.47	0.61
1:P:717:MET:HE3	1:Q:275:PHE:HZ	1.64	0.61
1:U:576:ASN:HD21	1:U:613:TRP:HB2	1.66	0.61
1:d:283:ASP:O	1:d:361:SER:HA	1.99	0.61
1:q:576:ASN:HD21	1:q:613:TRP:HB2	1.66	0.61
1:s:548:PHE:HB2	1:s:565:LEU:HB2	1.82	0.61
1:A:717:MET:HE3	1:E:275:PHE:HZ	1.64	0.61
1:G:645:GLY:H	2:G:801:D5M:HN62	1.47	0.61
1:O:275:PHE:HZ	1:d:717:MET:HE3	1.64	0.61
1:Y:283:ASP:O	1:Y:361:SER:HA	1.99	0.61
1:j:717:MET:HE3	1:x:275:PHE:HZ	1.64	0.61
1:s:576:ASN:HD21	1:s:613:TRP:HB2	1.66	0.61
1:t:645:GLY:H	2:t:801:D5M:HN62	1.47	0.61
1:v:548:PHE:HB2	1:v:565:LEU:HB2	1.82	0.61
1:5:645:GLY:H	2:5:801:D5M:HN62	1.47	0.61
1:C:645:GLY:H	2:C:801:D5M:HN62	1.47	0.61
1:E:645:GLY:H	2:E:801:D5M:HN62	1.47	0.61
1:R:576:ASN:HD21	1:R:613:TRP:HB2	1.66	0.61
1:Z:645:GLY:H	2:Z:801:D5M:HN62	1.47	0.61
1:c:548:PHE:HB2	1:c:565:LEU:HB2	1.82	0.61
1:e:283:ASP:O	1:e:361:SER:HA	1.99	0.61
1:e:548:PHE:HB2	1:e:565:LEU:HB2	1.82	0.61
1:v:717:MET:HE3	1:w:275:PHE:HZ	1.64	0.61
1:x:548:PHE:HB2	1:x:565:LEU:HB2	1.82	0.61
1:1:286:ARG:HD3	1:1:621:GLN:O	1.99	0.61
1:2:717:MET:HE3	1:3:275:PHE:HZ	1.64	0.61
1:8:645:GLY:H	2:8:801:D5M:HN62	1.47	0.61
1:B:286:ARG:HD3	1:B:621:GLN:O	1.99	0.61
1:a:645:GLY:H	2:a:801:D5M:HN62	1.47	0.61
1:g:645:GLY:H	2:g:801:D5M:HN62	1.47	0.61
1:o:717:MET:HE3	1:7:275:PHE:HZ	1.63	0.61
1:7:283:ASP:O	1:7:361:SER:HA	1.99	0.61
1:I:576:ASN:HD21	1:I:613:TRP:HB2	1.66	0.61
1:J:548:PHE:HB2	1:J:565:LEU:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:576:ASN:HD21	1:K:613:TRP:HB2	1.66	0.61
1:L:548:PHE:HB2	1:L:565:LEU:HB2	1.82	0.61
1:M:275:PHE:HZ	1:c:717:MET:HE3	1.63	0.61
1:Q:548:PHE:HB2	1:Q:565:LEU:HB2	1.82	0.61
1:S:548:PHE:HB2	1:S:565:LEU:HB2	1.81	0.61
1:c:283:ASP:O	1:c:361:SER:HA	1.99	0.61
1:m:576:ASN:HD21	1:m:613:TRP:HB2	1.66	0.61
1:u:576:ASN:HD21	1:u:613:TRP:HB2	1.66	0.61
1:1:576:ASN:HD21	1:1:613:TRP:HB2	1.66	0.61
1:2:548:PHE:HB2	1:2:565:LEU:HB2	1.82	0.61
1:3:645:GLY:H	2:3:801:D5M:HN62	1.47	0.61
1:E:576:ASN:HD21	1:E:613:TRP:HB2	1.66	0.60
1:J:717:MET:HE3	1:a:275:PHE:HZ	1.64	0.60
1:L:576:ASN:HD21	1:L:613:TRP:HB2	1.66	0.60
1:T:576:ASN:HD21	1:T:613:TRP:HB2	1.66	0.60
1:W:286:ARG:HD3	1:W:621:GLN:O	1.99	0.60
1:W:576:ASN:HD21	1:W:613:TRP:HB2	1.66	0.60
1:Z:576:ASN:HD21	1:Z:613:TRP:HB2	1.66	0.60
1:c:275:PHE:HZ	1:s:717:MET:HE3	1.64	0.60
1:e:717:MET:HE3	1:h:275:PHE:HZ	1.63	0.60
1:m:645:GLY:H	2:m:801:D5M:HN62	1.47	0.60
1:w:576:ASN:HD21	1:w:613:TRP:HB2	1.66	0.60
1:w:645:GLY:H	2:w:801:D5M:HN62	1.47	0.60
1:x:572:ILE:HD12	1:x:576:ASN:OD1	2.01	0.60
1:4:576:ASN:HD21	1:4:613:TRP:HB2	1.66	0.60
1:B:576:ASN:HD21	1:B:613:TRP:HB2	1.66	0.60
1:Q:572:ILE:HD12	1:Q:576:ASN:OD1	2.02	0.60
1:T:645:GLY:H	2:T:801:D5M:HN62	1.47	0.60
1:z:548:PHE:HB2	1:z:565:LEU:HB2	1.82	0.60
1:z:576:ASN:HD21	1:z:613:TRP:HB2	1.66	0.60
1:6:286:ARG:HD3	1:6:621:GLN:O	1.99	0.60
1:6:576:ASN:HD21	1:6:613:TRP:HB2	1.66	0.60
1:8:576:ASN:HD21	1:8:613:TRP:HB2	1.66	0.60
1:A:572:ILE:HD12	1:A:576:ASN:OD1	2.02	0.60
1:F:576:ASN:HD21	1:F:613:TRP:HB2	1.66	0.60
1:a:572:ILE:HD12	1:a:576:ASN:OD1	2.02	0.60
1:a:576:ASN:HD21	1:a:613:TRP:HB2	1.66	0.60
1:m:572:ILE:HD12	1:m:576:ASN:OD1	2.02	0.60
1:r:548:PHE:HB2	1:r:565:LEU:HB2	1.82	0.60
1:v:572:ILE:HD12	1:v:576:ASN:OD1	2.02	0.60
1:w:548:PHE:HB2	1:w:565:LEU:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:572:ILE:HD12	1:3:576:ASN:OD1	2.02	0.60
1:3:576:ASN:HD21	1:3:613:TRP:HB2	1.66	0.60
1:C:275:PHE:HZ	1:D:717:MET:HE3	1.64	0.60
1:D:576:ASN:HD21	1:D:613:TRP:HB2	1.66	0.60
1:E:548:PHE:HB2	1:E:565:LEU:HB2	1.82	0.60
1:F:631:THR:OG1	1:F:634[B]:HIS:NE2	2.35	0.60
1:G:286:ARG:HD3	1:G:621:GLN:O	1.99	0.60
1:G:572:ILE:HD12	1:G:576:ASN:OD1	2.02	0.60
1:H:275:PHE:HZ	1:Z:717:MET:HE3	1.64	0.60
1:M:631:THR:OG1	1:M:634[B]:HIS:NE2	2.35	0.60
1:T:572:ILE:HD12	1:T:576:ASN:OD1	2.02	0.60
1:c:576:ASN:HD21	1:c:613:TRP:HB2	1.66	0.60
1:d:572:ILE:HD12	1:d:576:ASN:OD1	2.02	0.60
1:h:631:THR:OG1	1:h:634[B]:HIS:NE2	2.35	0.60
1:r:572:ILE:HD12	1:r:576:ASN:OD1	2.02	0.60
1:t:286:ARG:HD3	1:t:621:GLN:O	1.99	0.60
1:t:572:ILE:HD12	1:t:576:ASN:OD1	2.02	0.60
1:y:572:ILE:HD12	1:y:576:ASN:OD1	2.02	0.60
1:y:631:THR:OG1	1:y:634[B]:HIS:NE2	2.35	0.60
1:F:572:ILE:HD12	1:F:576:ASN:OD1	2.02	0.60
1:P:631:THR:OG1	1:P:634[B]:HIS:NE2	2.35	0.60
1:S:572:ILE:HD12	1:S:576:ASN:OD1	2.02	0.60
1:V:631:THR:OG1	1:V:634[B]:HIS:NE2	2.35	0.60
1:Z:572:ILE:HD12	1:Z:576:ASN:OD1	2.02	0.60
1:Z:631:THR:OG1	1:Z:634[B]:HIS:NE2	2.35	0.60
1:e:576:ASN:HD21	1:e:613:TRP:HB2	1.66	0.60
1:i:321:LYS:NZ	1:i:334:ASN:OD1	2.27	0.60
1:j:631:THR:OG1	1:j:634[B]:HIS:NE2	2.35	0.60
1:k:576:ASN:HD21	1:k:613:TRP:HB2	1.66	0.60
1:n:572:ILE:HD12	1:n:576:ASN:OD1	2.02	0.60
1:p:631:THR:OG1	1:p:634[B]:HIS:NE2	2.35	0.60
1:x:576:ASN:HD21	1:x:613:TRP:HB2	1.66	0.60
1:y:576:ASN:HD21	1:y:613:TRP:HB2	1.66	0.60
1:8:631:THR:OG1	1:8:634[B]:HIS:NE2	2.35	0.60
1:R:645:GLY:H	2:R:801:D5M:HN62	1.47	0.60
1:S:576:ASN:HD21	1:S:613:TRP:HB2	1.66	0.60
1:V:576:ASN:HD21	1:V:613:TRP:HB2	1.66	0.60
1:p:576:ASN:HD21	1:p:613:TRP:HB2	1.66	0.60
1:q:645:GLY:H	2:q:801:D5M:HN62	1.47	0.60
1:7:631:THR:OG1	1:7:634[B]:HIS:NE2	2.35	0.60
1:8:572:ILE:HD12	1:8:576:ASN:OD1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:717:MET:HE3	1:I:275:PHE:HZ	1.64	0.60
1:O:572:ILE:HD12	1:O:576:ASN:OD1	2.02	0.60
1:Q:576:ASN:HD21	1:Q:613:TRP:HB2	1.66	0.60
1:V:275:PHE:HZ	1:W:717:MET:HE3	1.64	0.60
1:Y:631:THR:OG1	1:Y:634[B]:HIS:NE2	2.35	0.60
1:f:275:PHE:HZ	1:z:717:MET:HE3	1.64	0.60
1:g:275:PHE:HZ	1:k:717:MET:HE3	1.64	0.60
1:l:572:ILE:HD12	1:l:576:ASN:OD1	2.02	0.60
1:5:631:THR:OG1	1:5:634[B]:HIS:NE2	2.35	0.60
1:7:576:ASN:HD21	1:7:613:TRP:HB2	1.66	0.60
1:H:631:THR:OG1	1:H:634[B]:HIS:NE2	2.35	0.60
1:K:631:THR:OG1	1:K:634[B]:HIS:NE2	2.35	0.60
1:M:576:ASN:HD21	1:M:613:TRP:HB2	1.66	0.60
1:O:576:ASN:HD21	1:O:613:TRP:HB2	1.66	0.60
1:Y:576:ASN:HD21	1:Y:613:TRP:HB2	1.66	0.60
1:d:631:THR:OG1	1:d:634[B]:HIS:NE2	2.35	0.60
1:4:631:THR:OG1	1:4:634[B]:HIS:NE2	2.35	0.60
1:5:275:PHE:HZ	1:8:717:MET:HE3	1.64	0.60
1:6:572:ILE:HD12	1:6:576:ASN:OD1	2.02	0.60
1:G:548:PHE:HB2	1:G:565:LEU:HB2	1.82	0.60
1:J:576:ASN:HD21	1:J:613:TRP:HB2	1.66	0.60
1:L:717:MET:HE3	1:b:275:PHE:HZ	1.64	0.60
1:Q:631:THR:OG1	1:Q:634[B]:HIS:NE2	2.35	0.60
1:T:717:MET:HE3	1:U:275:PHE:HZ	1.63	0.60
1:b:576:ASN:HD21	1:b:613:TRP:HB2	1.66	0.60
1:g:572:ILE:HD12	1:g:576:ASN:OD1	2.02	0.60
1:h:576:ASN:HD21	1:h:613:TRP:HB2	1.66	0.60
1:k:548:PHE:HB2	1:k:565:LEU:HB2	1.82	0.60
1:l:576:ASN:HD21	1:l:613:TRP:HB2	1.66	0.60
1:n:631:THR:OG1	1:n:634[B]:HIS:NE2	2.35	0.60
1:q:572:ILE:HD12	1:q:576:ASN:OD1	2.02	0.60
1:r:576:ASN:HD21	1:r:613:TRP:HB2	1.66	0.60
1:B:631:THR:OG1	1:B:634[B]:HIS:NE2	2.35	0.60
1:C:572:ILE:HD12	1:C:576:ASN:OD1	2.02	0.60
1:O:631:THR:OG1	1:O:634[B]:HIS:NE2	2.35	0.60
1:W:572:ILE:HD12	1:W:576:ASN:OD1	2.02	0.60
1:f:576:ASN:HD21	1:f:613:TRP:HB2	1.66	0.60
1:n:576:ASN:HD21	1:n:613:TRP:HB2	1.66	0.60
1:p:275:PHE:HZ	1:6:717:MET:HE3	1.64	0.60
1:t:548:PHE:HB2	1:t:565:LEU:HB2	1.82	0.60
1:u:275:PHE:HZ	1:5:717:MET:HE3	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:631:THR:OG1	1:w:634[B]:HIS:NE2	2.35	0.60
1:x:631:THR:OG1	1:x:634[B]:HIS:NE2	2.35	0.60
1:2:572:ILE:HD12	1:2:576:ASN:OD1	2.02	0.60
1:D:548:PHE:HB2	1:D:565:LEU:HB2	1.82	0.59
1:E:631:THR:OG1	1:E:634[B]:HIS:NE2	2.35	0.59
1:H:572:ILE:HD12	1:H:576:ASN:OD1	2.02	0.59
1:J:572:ILE:HD12	1:J:576:ASN:OD1	2.02	0.59
1:N:572:ILE:HD12	1:N:576:ASN:OD1	2.01	0.59
1:Q:717:MET:HE3	1:S:275:PHE:HZ	1.64	0.59
1:R:572:ILE:HD12	1:R:576:ASN:OD1	2.02	0.59
1:X:275:PHE:HZ	1:f:717:MET:HE3	1.63	0.59
1:i:572:ILE:HD12	1:i:576:ASN:OD1	2.01	0.59
1:1:569:GLU:OE2	1:1:619:TYR:OH	2.20	0.59
1:1:631:THR:OG1	1:1:634[B]:HIS:NE2	2.35	0.59
1:2:576:ASN:HD21	1:2:613:TRP:HB2	1.66	0.59
1:7:572:ILE:HD12	1:7:576:ASN:OD1	2.01	0.59
1:B:572:ILE:HD12	1:B:576:ASN:OD1	2.02	0.59
1:D:572:ILE:HD12	1:D:576:ASN:OD1	2.02	0.59
1:N:576:ASN:HD21	1:N:613:TRP:HB2	1.66	0.59
1:X:576:ASN:HD21	1:X:613:TRP:HB2	1.66	0.59
1:Y:572:ILE:HD12	1:Y:576:ASN:OD1	2.01	0.59
1:c:572:ILE:HD12	1:c:576:ASN:OD1	2.02	0.59
1:d:576:ASN:HD21	1:d:613:TRP:HB2	1.66	0.59
1:i:576:ASN:HD21	1:i:613:TRP:HB2	1.66	0.59
1:l:631:THR:OG1	1:l:634[B]:HIS:NE2	2.35	0.59
1:q:631:THR:OG1	1:q:634[B]:HIS:NE2	2.35	0.59
1:5:572:ILE:HD12	1:5:576:ASN:OD1	2.02	0.59
1:A:576:ASN:HD21	1:A:613:TRP:HB2	1.66	0.59
1:A:631:THR:OG1	1:A:634[B]:HIS:NE2	2.35	0.59
1:C:631:THR:OG1	1:C:634[B]:HIS:NE2	2.35	0.59
1:I:572:ILE:HD12	1:I:576:ASN:OD1	2.01	0.59
1:L:572:ILE:HD12	1:L:576:ASN:OD1	2.02	0.59
1:V:572:ILE:HD12	1:V:576:ASN:OD1	2.02	0.59
1:g:631:THR:OG1	1:g:634[B]:HIS:NE2	2.35	0.59
1:v:631:THR:OG1	1:v:634[B]:HIS:NE2	2.35	0.59
1:z:572:ILE:HD12	1:z:576:ASN:OD1	2.02	0.59
1:R:631:THR:OG1	1:R:634[B]:HIS:NE2	2.35	0.59
1:Z:569:GLU:OE2	1:Z:619:TYR:OH	2.20	0.59
1:b:572:ILE:HD12	1:b:576:ASN:OD1	2.02	0.59
1:b:717:MET:HE3	1:o:275:PHE:HZ	1.63	0.59
1:e:572:ILE:HD12	1:e:576:ASN:OD1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:572:ILE:HD12	1:k:576:ASN:OD1	2.02	0.59
1:o:576:ASN:HD21	1:o:613:TRP:HB2	1.66	0.59
1:r:275:PHE:HZ	1:x:717:MET:HE3	1.64	0.59
1:v:576:ASN:HD21	1:v:613:TRP:HB2	1.66	0.59
1:1:572:ILE:HD12	1:1:576:ASN:OD1	2.02	0.59
1:P:576:ASN:HD21	1:P:613:TRP:HB2	1.66	0.59
1:j:576:ASN:HD21	1:j:613:TRP:HB2	1.66	0.59
1:p:572:ILE:HD12	1:p:576:ASN:OD1	2.02	0.59
1:r:631:THR:OG1	1:r:634[B]:HIS:NE2	2.35	0.59
1:u:572:ILE:HD12	1:u:576:ASN:OD1	2.02	0.59
1:w:572:ILE:HD12	1:w:576:ASN:OD1	2.02	0.59
1:E:572:ILE:HD12	1:E:576:ASN:OD1	2.02	0.59
1:G:631:THR:OG1	1:G:634[B]:HIS:NE2	2.35	0.59
1:N:631:THR:OG1	1:N:634[B]:HIS:NE2	2.35	0.59
1:S:631:THR:OG1	1:S:634[B]:HIS:NE2	2.35	0.59
1:Z:275:PHE:HZ	1:a:717:MET:HE3	1.64	0.59
1:f:572:ILE:HD12	1:f:576:ASN:OD1	2.02	0.59
1:C:569:GLU:OE2	1:C:619:TYR:OH	2.20	0.59
1:K:569:GLU:OE2	1:K:619:TYR:OH	2.20	0.59
1:L:569:GLU:OE2	1:L:619:TYR:OH	2.20	0.59
1:M:572:ILE:HD12	1:M:576:ASN:OD1	2.02	0.59
1:U:572:ILE:HD12	1:U:576:ASN:OD1	2.02	0.59
1:h:572:ILE:HD12	1:h:576:ASN:OD1	2.02	0.59
1:s:572:ILE:HD12	1:s:576:ASN:OD1	2.02	0.59
1:t:631:THR:OG1	1:t:634[B]:HIS:NE2	2.35	0.59
1:3:631:THR:OG1	1:3:634[B]:HIS:NE2	2.35	0.59
1:L:631:THR:OG1	1:L:634[B]:HIS:NE2	2.35	0.59
1:4:569:GLU:OE2	1:4:619:TYR:OH	2.20	0.59
1:H:576:ASN:HD21	1:H:613:TRP:HB2	1.66	0.59
1:o:572:ILE:HD12	1:o:576:ASN:OD1	2.02	0.59
1:t:576:ASN:HD21	1:t:613:TRP:HB2	1.66	0.59
1:z:569:GLU:OE2	1:z:619:TYR:OH	2.20	0.59
1:M:569:GLU:OE2	1:M:619:TYR:OH	2.20	0.59
1:h:569:GLU:OE2	1:h:619:TYR:OH	2.20	0.59
1:3:717:MET:HE3	1:8:275:PHE:HZ	1.64	0.59
1:5:576:ASN:HD21	1:5:613:TRP:HB2	1.66	0.59
1:C:576:ASN:HD21	1:C:613:TRP:HB2	1.66	0.58
1:K:572:ILE:HD12	1:K:576:ASN:OD1	2.02	0.58
1:P:572:ILE:HD12	1:P:576:ASN:OD1	2.02	0.58
1:X:572:ILE:HD12	1:X:576:ASN:OD1	2.02	0.58
1:b:631:THR:OG1	1:b:634[B]:HIS:NE2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:631:THR:OG1	1:f:634[B]:HIS:NE2	2.35	0.58
1:j:572:ILE:HD12	1:j:576:ASN:OD1	2.02	0.58
1:m:717:MET:HE3	1:s:275:PHE:HZ	1.64	0.58
1:n:321:LYS:NZ	1:n:334:ASN:OD1	2.27	0.58
1:z:631:THR:OG1	1:z:634[B]:HIS:NE2	2.35	0.58
1:F:569:GLU:O	1:F:572:ILE:HG12	2.04	0.58
1:G:576:ASN:HD21	1:G:613:TRP:HB2	1.66	0.58
1:I:631:THR:OG1	1:I:634[B]:HIS:NE2	2.35	0.58
1:b:569:GLU:O	1:b:572:ILE:HG12	2.04	0.58
1:f:569:GLU:O	1:f:572:ILE:HG12	2.04	0.58
1:g:576:ASN:HD21	1:g:613:TRP:HB2	1.66	0.58
1:s:631:THR:OG1	1:s:634[B]:HIS:NE2	2.35	0.58
1:4:572:ILE:HD12	1:4:576:ASN:OD1	2.02	0.58
1:I:569:GLU:O	1:I:572:ILE:HG12	2.04	0.58
1:J:569:GLU:O	1:J:572:ILE:HG12	2.04	0.58
1:R:321:LYS:NZ	1:R:334:ASN:OD1	2.27	0.58
1:U:631:THR:OG1	1:U:634[B]:HIS:NE2	2.35	0.58
1:u:631:THR:OG1	1:u:634[B]:HIS:NE2	2.35	0.58
1:y:569:GLU:O	1:y:572:ILE:HG12	2.04	0.58
1:z:569:GLU:O	1:z:572:ILE:HG12	2.04	0.58
1:5:569:GLU:O	1:5:572:ILE:HG12	2.04	0.58
1:D:569:GLU:O	1:D:572:ILE:HG12	2.04	0.58
1:F:321:LYS:NZ	1:F:334:ASN:OD1	2.27	0.58
1:F:569:GLU:OE2	1:F:619:TYR:OH	2.20	0.58
1:H:569:GLU:O	1:H:572:ILE:HG12	2.04	0.58
1:K:569:GLU:O	1:K:572:ILE:HG12	2.04	0.58
1:L:569:GLU:O	1:L:572:ILE:HG12	2.04	0.58
1:Y:617:ASP:OD1	1:Y:735:SER:OG	2.20	0.58
1:j:569:GLU:O	1:j:572:ILE:HG12	2.04	0.58
1:k:569:GLU:O	1:k:572:ILE:HG12	2.04	0.58
1:u:569:GLU:O	1:u:572:ILE:HG12	2.04	0.58
1:4:569:GLU:O	1:4:572:ILE:HG12	2.04	0.58
1:E:286:ARG:HD2	1:E:288:HIS:NE2	2.19	0.58
1:N:286:ARG:HD2	1:N:288:HIS:NE2	2.19	0.58
1:P:569:GLU:O	1:P:572:ILE:HG12	2.04	0.58
1:S:286:ARG:HD2	1:S:288:HIS:NE2	2.19	0.58
1:Y:321:LYS:NZ	1:Y:334:ASN:OD1	2.27	0.58
1:Z:569:GLU:O	1:Z:572:ILE:HG12	2.04	0.58
1:v:569:GLU:O	1:v:572:ILE:HG12	2.04	0.58
1:2:569:GLU:O	1:2:572:ILE:HG12	2.04	0.58
1:7:321:LYS:NZ	1:7:334:ASN:OD1	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:569:GLU:O	1:A:572:ILE:HG12	2.04	0.58
1:Q:569:GLU:O	1:Q:572:ILE:HG12	2.04	0.58
1:T:631:THR:OG1	1:T:634[B]:HIS:NE2	2.35	0.58
1:V:286:ARG:HD2	1:V:288:HIS:NE2	2.19	0.58
1:a:631:THR:OG1	1:a:634[B]:HIS:NE2	2.35	0.58
1:d:286:ARG:HD2	1:d:288:HIS:NE2	2.19	0.58
1:i:286:ARG:HD2	1:i:288:HIS:NE2	2.19	0.58
1:m:631:THR:OG1	1:m:634[B]:HIS:NE2	2.35	0.58
1:p:286:ARG:HD2	1:p:288:HIS:NE2	2.19	0.58
1:t:569:GLU:O	1:t:572:ILE:HG12	2.04	0.58
1:w:286:ARG:HD2	1:w:288:HIS:NE2	2.19	0.58
1:x:569:GLU:O	1:x:572:ILE:HG12	2.04	0.58
1:7:286:ARG:HD2	1:7:288:HIS:NE2	2.19	0.58
1:8:569:GLU:O	1:8:572:ILE:HG12	2.04	0.58
1:G:569:GLU:O	1:G:572:ILE:HG12	2.04	0.58
1:N:569:GLU:O	1:N:572:ILE:HG12	2.04	0.58
1:O:569:GLU:O	1:O:572:ILE:HG12	2.04	0.58
1:Q:286:ARG:HD2	1:Q:288:HIS:NE2	2.19	0.58
1:R:286:ARG:HD2	1:R:288:HIS:NE2	2.19	0.58
1:T:569:GLU:O	1:T:572:ILE:HG12	2.04	0.58
1:Y:286:ARG:HD2	1:Y:288:HIS:NE2	2.19	0.58
1:a:569:GLU:O	1:a:572:ILE:HG12	2.04	0.58
1:l:569:GLU:O	1:l:572:ILE:HG12	2.04	0.58
1:m:569:GLU:O	1:m:572:ILE:HG12	2.04	0.58
1:n:286:ARG:HD2	1:n:288:HIS:NE2	2.19	0.58
1:r:286:ARG:HD2	1:r:288:HIS:NE2	2.19	0.58
1:r:569:GLU:O	1:r:572:ILE:HG12	2.04	0.58
1:x:286:ARG:HD2	1:x:288:HIS:NE2	2.19	0.58
1:A:286:ARG:HD2	1:A:288:HIS:NE2	2.19	0.58
1:B:286:ARG:HD2	1:B:288:HIS:NE2	2.19	0.58
1:B:569:GLU:O	1:B:572:ILE:HG12	2.04	0.58
1:K:286:ARG:HD2	1:K:288:HIS:NE2	2.19	0.58
1:h:321:LYS:NZ	1:h:334:ASN:OD1	2.27	0.58
1:i:569:GLU:O	1:i:572:ILE:HG12	2.04	0.58
1:q:286:ARG:HD2	1:q:288:HIS:NE2	2.19	0.58
1:q:321:LYS:NZ	1:q:334:ASN:OD1	2.27	0.58
1:y:569:GLU:OE2	1:y:619:TYR:OH	2.20	0.58
1:4:286:ARG:HD2	1:4:288:HIS:NE2	2.19	0.58
1:J:286:ARG:HD2	1:J:288:HIS:NE2	2.19	0.58
1:S:569:GLU:O	1:S:572:ILE:HG12	2.04	0.58
1:c:286:ARG:HD2	1:c:288:HIS:NE2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:321:LYS:NZ	1:y:334:ASN:OD1	2.27	0.58
1:1:286:ARG:HD2	1:1:288:HIS:NE2	2.19	0.58
1:2:286:ARG:HD2	1:2:288:HIS:NE2	2.19	0.58
1:3:569:GLU:O	1:3:572:ILE:HG12	2.04	0.58
1:6:286:ARG:HD2	1:6:288:HIS:NE2	2.19	0.58
1:7:569:GLU:O	1:7:572:ILE:HG12	2.04	0.58
1:C:569:GLU:O	1:C:572:ILE:HG12	2.04	0.58
1:W:286:ARG:HD2	1:W:288:HIS:NE2	2.19	0.58
1:Y:569:GLU:O	1:Y:572:ILE:HG12	2.04	0.58
1:e:286:ARG:HD2	1:e:288:HIS:NE2	2.19	0.58
1:e:617:ASP:OD1	1:e:735:SER:OG	2.20	0.58
1:k:631:THR:OG1	1:k:634[B]:HIS:NE2	2.35	0.58
1:l:286:ARG:HD2	1:l:288:HIS:NE2	2.19	0.58
1:v:286:ARG:HD2	1:v:288:HIS:NE2	2.19	0.58
1:1:569:GLU:O	1:1:572:ILE:HG12	2.04	0.58
1:O:286:ARG:HD2	1:O:288:HIS:NE2	2.19	0.57
1:X:569:GLU:OE2	1:X:619:TYR:OH	2.20	0.57
1:g:569:GLU:O	1:g:572:ILE:HG12	2.04	0.57
1:o:569:GLU:OE2	1:o:619:TYR:OH	2.20	0.57
1:2:569:GLU:OE2	1:2:619:TYR:OH	2.20	0.57
1:F:275:PHE:HZ	1:R:717:MET:HE3	1.64	0.57
1:5:569:GLU:OE2	1:5:619:TYR:OH	2.20	0.57
1:6:569:GLU:O	1:6:572:ILE:HG12	2.04	0.57
1:H:286:ARG:HD2	1:H:288:HIS:NE2	2.19	0.57
1:J:631:THR:OG1	1:J:634[B]:HIS:NE2	2.35	0.57
1:M:321:LYS:NZ	1:M:334:ASN:OD1	2.27	0.57
1:j:286:ARG:HD2	1:j:288:HIS:NE2	2.19	0.57
1:3:286:ARG:HD2	1:3:288:HIS:NE2	2.19	0.57
1:C:299:LEU:HD21	1:C:306:LEU:HD22	1.87	0.57
1:J:321:LYS:NZ	1:J:334:ASN:OD1	2.27	0.57
1:J:569:GLU:OE2	1:J:619:TYR:OH	2.20	0.57
1:P:286:ARG:HD2	1:P:288:HIS:NE2	2.19	0.57
1:P:321:LYS:NZ	1:P:334:ASN:OD1	2.27	0.57
1:W:569:GLU:O	1:W:572:ILE:HG12	2.04	0.57
1:a:286:ARG:HD2	1:a:288:HIS:NE2	2.19	0.57
1:o:286:ARG:HD2	1:o:288:HIS:NE2	2.19	0.57
1:o:631:THR:OG1	1:o:634[B]:HIS:NE2	2.35	0.57
1:p:299:LEU:HD21	1:p:306:LEU:HD22	1.87	0.57
1:s:569:GLU:O	1:s:572:ILE:HG12	2.04	0.57
1:u:569:GLU:OE2	1:u:619:TYR:OH	2.20	0.57
1:w:569:GLU:O	1:w:572:ILE:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:286:ARG:HD2	1:5:288:HIS:NE2	2.19	0.57
1:E:569:GLU:O	1:E:572:ILE:HG12	2.04	0.57
1:H:299:LEU:HD21	1:H:306:LEU:HD22	1.87	0.57
1:Q:321:LYS:NZ	1:Q:334:ASN:OD1	2.27	0.57
1:U:569:GLU:O	1:U:572:ILE:HG12	2.04	0.57
1:V:299:LEU:HD21	1:V:306:LEU:HD22	1.87	0.57
1:Z:299:LEU:HD21	1:Z:306:LEU:HD22	1.87	0.57
1:b:286:ARG:HD2	1:b:288:HIS:NE2	2.19	0.57
1:g:299:LEU:HD21	1:g:306:LEU:HD22	1.87	0.57
1:h:569:GLU:O	1:h:572:ILE:HG12	2.04	0.57
1:k:275:PHE:HZ	1:w:717:MET:HE3	1.64	0.57
1:k:286:ARG:HD2	1:k:288:HIS:NE2	2.19	0.57
1:s:299:LEU:HD21	1:s:306:LEU:HD22	1.87	0.57
1:5:299:LEU:HD21	1:5:306:LEU:HD22	1.87	0.57
1:D:286:ARG:HD2	1:D:288:HIS:NE2	2.19	0.57
1:M:569:GLU:O	1:M:572:ILE:HG12	2.04	0.57
1:N:569:GLU:OE2	1:N:619:TYR:OH	2.20	0.57
1:T:286:ARG:HD2	1:T:288:HIS:NE2	2.19	0.57
1:U:299:LEU:HD21	1:U:306:LEU:HD22	1.87	0.57
1:W:631:THR:OG1	1:W:634[B]:HIS:NE2	2.35	0.57
1:X:286:ARG:HD2	1:X:288:HIS:NE2	2.19	0.57
1:X:569:GLU:O	1:X:572:ILE:HG12	2.04	0.57
1:X:631:THR:OG1	1:X:634[B]:HIS:NE2	2.35	0.57
1:e:569:GLU:O	1:e:572:ILE:HG12	2.04	0.57
1:g:286:ARG:HD2	1:g:288:HIS:NE2	2.19	0.57
1:m:286:ARG:HD2	1:m:288:HIS:NE2	2.19	0.57
1:o:569:GLU:O	1:o:572:ILE:HG12	2.04	0.57
1:q:717:MET:HE3	1:y:275:PHE:HZ	1.64	0.57
1:s:286:ARG:HD2	1:s:288:HIS:NE2	2.19	0.57
1:t:286:ARG:HD2	1:t:288:HIS:NE2	2.19	0.57
1:1:299:LEU:HD21	1:1:306:LEU:HD22	1.87	0.57
1:2:631:THR:OG1	1:2:634[B]:HIS:NE2	2.35	0.57
1:8:299:LEU:HD21	1:8:306:LEU:HD22	1.87	0.57
1:B:299:LEU:HD21	1:B:306:LEU:HD22	1.87	0.57
1:D:275:PHE:HZ	1:E:717:MET:HE3	1.64	0.57
1:D:299:LEU:HD21	1:D:306:LEU:HD22	1.87	0.57
1:D:631:THR:OG1	1:D:634[B]:HIS:NE2	2.35	0.57
1:F:286:ARG:HD2	1:F:288:HIS:NE2	2.19	0.57
1:I:569:GLU:OE2	1:I:619:TYR:OH	2.20	0.57
1:f:286:ARG:HD2	1:f:288:HIS:NE2	2.19	0.57
1:q:569:GLU:OE2	1:q:619:TYR:OH	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:569:GLU:O	1:q:572:ILE:HG12	2.04	0.57
1:w:533:THR:HG22	1:w:569:GLU:H	1.70	0.57
1:x:321:LYS:NZ	1:x:334:ASN:OD1	2.27	0.57
1:y:299:LEU:HD21	1:y:306:LEU:HD22	1.87	0.57
1:2:321:LYS:NZ	1:2:334:ASN:OD1	2.27	0.57
1:3:299:LEU:HD21	1:3:306:LEU:HD22	1.87	0.57
1:C:286:ARG:HD2	1:C:288:HIS:NE2	2.19	0.57
1:E:533:THR:HG22	1:E:569:GLU:H	1.70	0.57
1:F:299:LEU:HD21	1:F:306:LEU:HD22	1.87	0.57
1:G:286:ARG:HD2	1:G:288:HIS:NE2	2.19	0.57
1:R:569:GLU:OE2	1:R:619:TYR:OH	2.20	0.57
1:U:286:ARG:HD2	1:U:288:HIS:NE2	2.19	0.57
1:V:569:GLU:O	1:V:572:ILE:HG12	2.04	0.57
1:Y:299:LEU:HD21	1:Y:306:LEU:HD22	1.87	0.57
1:Z:286:ARG:HD2	1:Z:288:HIS:NE2	2.19	0.57
1:a:299:LEU:HD21	1:a:306:LEU:HD22	1.87	0.57
1:c:569:GLU:O	1:c:572:ILE:HG12	2.04	0.57
1:k:299:LEU:HD21	1:k:306:LEU:HD22	1.87	0.57
1:4:299:LEU:HD21	1:4:306:LEU:HD22	1.87	0.57
1:6:631:THR:OG1	1:6:634[B]:HIS:NE2	2.35	0.57
1:J:533:THR:HG22	1:J:569:GLU:H	1.70	0.57
1:K:299:LEU:HD21	1:K:306:LEU:HD22	1.87	0.57
1:M:286:ARG:HD2	1:M:288:HIS:NE2	2.19	0.57
1:R:569:GLU:O	1:R:572:ILE:HG12	2.04	0.57
1:U:569:GLU:OE2	1:U:619:TYR:OH	2.20	0.57
1:b:533:THR:HG22	1:b:569:GLU:H	1.70	0.57
1:c:299:LEU:HD21	1:c:306:LEU:HD22	1.87	0.57
1:d:569:GLU:O	1:d:572:ILE:HG12	2.04	0.57
1:j:321:LYS:NZ	1:j:334:ASN:OD1	2.27	0.57
1:n:569:GLU:O	1:n:572:ILE:HG12	2.04	0.57
1:y:286:ARG:HD2	1:y:288:HIS:NE2	2.19	0.57
1:7:299:LEU:HD21	1:7:306:LEU:HD22	1.87	0.57
1:B:533:THR:HG22	1:B:569:GLU:H	1.70	0.57
1:J:299:LEU:HD21	1:J:306:LEU:HD22	1.87	0.57
1:K:533:THR:HG22	1:K:569:GLU:H	1.70	0.57
1:L:286:ARG:HD2	1:L:288:HIS:NE2	2.19	0.57
1:Q:533:THR:HG22	1:Q:569:GLU:H	1.70	0.57
1:Z:533:THR:HG22	1:Z:569:GLU:H	1.70	0.57
1:f:533:THR:HG22	1:f:569:GLU:H	1.70	0.57
1:v:299:LEU:HD21	1:v:306:LEU:HD22	1.87	0.57
1:x:533:THR:HG22	1:x:569:GLU:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:286:ARG:HD2	1:z:288:HIS:NE2	2.19	0.57
1:1:533:THR:HG22	1:1:569:GLU:H	1.70	0.57
1:4:533:THR:HG22	1:4:569:GLU:H	1.70	0.57
1:6:299:LEU:HD21	1:6:306:LEU:HD22	1.87	0.57
1:8:286:ARG:HD2	1:8:288:HIS:NE2	2.19	0.57
1:8:533:THR:HG22	1:8:569:GLU:H	1.70	0.57
1:I:286:ARG:HD2	1:I:288:HIS:NE2	2.19	0.56
1:O:533:THR:HG22	1:O:569:GLU:H	1.70	0.56
1:T:533:THR:HG22	1:T:569:GLU:H	1.70	0.56
1:a:533:THR:HG22	1:a:569:GLU:H	1.70	0.56
1:e:299:LEU:HD21	1:e:306:LEU:HD22	1.87	0.56
1:g:533:THR:HG22	1:g:569:GLU:H	1.70	0.56
1:j:569:GLU:OE2	1:j:619:TYR:OH	2.20	0.56
1:m:533:THR:HG22	1:m:569:GLU:H	1.70	0.56
1:p:569:GLU:OE2	1:p:619:TYR:OH	2.20	0.56
1:p:569:GLU:O	1:p:572:ILE:HG12	2.04	0.56
1:s:569:GLU:OE2	1:s:619:TYR:OH	2.20	0.56
1:t:299:LEU:HD21	1:t:306:LEU:HD22	1.87	0.56
1:u:533:THR:HG22	1:u:569:GLU:H	1.70	0.56
1:2:299:LEU:HD21	1:2:306:LEU:HD22	1.87	0.56
1:2:533:THR:HG22	1:2:569:GLU:H	1.70	0.56
1:3:533:THR:HG22	1:3:569:GLU:H	1.70	0.56
1:3:569:GLU:OE2	1:3:619:TYR:OH	2.20	0.56
1:A:569:GLU:OE2	1:A:619:TYR:OH	2.20	0.56
1:C:533:THR:HG22	1:C:569:GLU:H	1.70	0.56
1:G:299:LEU:HD21	1:G:306:LEU:HD22	1.87	0.56
1:I:533:THR:HG22	1:I:569:GLU:H	1.70	0.56
1:N:321:LYS:NZ	1:N:334:ASN:OD1	2.27	0.56
1:W:299:LEU:HD21	1:W:306:LEU:HD22	1.87	0.56
1:a:569:GLU:OE2	1:a:619:TYR:OH	2.20	0.56
1:h:286:ARG:HD2	1:h:288:HIS:NE2	2.19	0.56
1:l:533:THR:HG22	1:l:569:GLU:H	1.70	0.56
1:s:533:THR:HG22	1:s:569:GLU:H	1.70	0.56
1:v:569:GLU:OE2	1:v:619:TYR:OH	2.20	0.56
1:z:321:LYS:NZ	1:z:334:ASN:OD1	2.27	0.56
1:5:533:THR:HG22	1:5:569:GLU:H	1.70	0.56
1:A:299:LEU:HD21	1:A:306:LEU:HD22	1.87	0.56
1:H:533:THR:HG22	1:H:569:GLU:H	1.70	0.56
1:P:569:GLU:OE2	1:P:619:TYR:OH	2.20	0.56
1:U:533:THR:HG22	1:U:569:GLU:H	1.70	0.56
1:V:569:GLU:OE2	1:V:619:TYR:OH	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:321:LYS:NZ	1:a:334:ASN:OD1	2.27	0.56
1:c:533:THR:HG22	1:c:569:GLU:H	1.70	0.56
1:e:533:THR:HG22	1:e:569:GLU:H	1.70	0.56
1:i:631:THR:OG1	1:i:634[B]:HIS:NE2	2.35	0.56
1:u:286:ARG:HD2	1:u:288:HIS:NE2	2.19	0.56
1:5:617:ASP:OD1	1:5:735:SER:OG	2.20	0.56
1:6:533:THR:HG22	1:6:569:GLU:H	1.70	0.56
1:7:533:THR:HG22	1:7:569:GLU:H	1.70	0.56
1:L:321:LYS:NZ	1:L:334:ASN:OD1	2.27	0.56
1:M:533:THR:HG22	1:M:569:GLU:H	1.70	0.56
1:S:299:LEU:HD21	1:S:306:LEU:HD22	1.87	0.56
1:V:617:ASP:OD1	1:V:735:SER:OG	2.20	0.56
1:W:533:THR:HG22	1:W:569:GLU:H	1.70	0.56
1:A:533:THR:HG22	1:A:569:GLU:H	1.70	0.56
1:C:321:LYS:NZ	1:C:334:ASN:OD1	2.27	0.56
1:F:717:MET:HE3	1:G:275:PHE:HZ	1.64	0.56
1:H:617:ASP:OD1	1:H:735:SER:OG	2.20	0.56
1:Q:299:LEU:HD21	1:Q:306:LEU:HD22	1.87	0.56
1:S:533:THR:HG22	1:S:569:GLU:H	1.70	0.56
1:Y:533:THR:HG22	1:Y:569:GLU:H	1.70	0.56
1:c:631:THR:OG1	1:c:634[B]:HIS:NE2	2.35	0.56
1:p:617:ASP:OD1	1:p:735:SER:OG	2.20	0.56
1:r:533:THR:HG22	1:r:569:GLU:H	1.70	0.56
1:x:299:LEU:HD21	1:x:306:LEU:HD22	1.87	0.56
1:E:299:LEU:HD21	1:E:306:LEU:HD22	1.87	0.56
1:P:299:LEU:HD21	1:P:306:LEU:HD22	1.87	0.56
1:h:533:THR:HG22	1:h:569:GLU:H	1.70	0.56
1:i:299:LEU:HD21	1:i:306:LEU:HD22	1.87	0.56
1:j:299:LEU:HD21	1:j:306:LEU:HD22	1.87	0.56
1:u:617:ASP:OD1	1:u:735:SER:OG	2.20	0.56
1:w:299:LEU:HD21	1:w:306:LEU:HD22	1.87	0.56
1:L:299:LEU:HD21	1:L:306:LEU:HD22	1.87	0.56
1:R:351:PRO:HB3	1:U:430:GLN:HE22	1.70	0.56
1:m:299:LEU:HD21	1:m:306:LEU:HD22	1.87	0.56
1:r:299:LEU:HD21	1:r:306:LEU:HD22	1.87	0.56
1:v:533:THR:HG22	1:v:569:GLU:H	1.70	0.56
1:z:299:LEU:HD21	1:z:306:LEU:HD22	1.87	0.56
1:z:533:THR:HG22	1:z:569:GLU:H	1.70	0.56
1:H:351:PRO:HB3	1:Y:430:GLN:HE22	1.71	0.56
1:N:299:LEU:HD21	1:N:306:LEU:HD22	1.87	0.56
1:S:430:GLN:HE22	1:U:351:PRO:HB3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:617:ASP:OD1	1:S:735:SER:OG	2.20	0.56
1:X:321:LYS:NZ	1:X:334:ASN:OD1	2.27	0.56
1:X:351:PRO:HB3	1:e:430:GLN:HE22	1.71	0.56
1:c:430:GLN:HE22	1:o:351:PRO:HB3	1.71	0.56
1:e:631:THR:OG1	1:e:634[B]:HIS:NE2	2.35	0.56
1:k:533:THR:HG22	1:k:569:GLU:H	1.70	0.56
1:o:321:LYS:NZ	1:o:334:ASN:OD1	2.27	0.56
1:t:617:ASP:OD1	1:t:735:SER:OG	2.20	0.56
1:1:430:GLN:HE22	1:2:351:PRO:HB3	1.71	0.56
1:3:321:LYS:NZ	1:3:334:ASN:OD1	2.27	0.56
1:5:351:PRO:HB3	1:7:430:GLN:HE22	1.71	0.56
1:C:295:ASP:OD1	1:C:298:ARG:NH1	2.39	0.56
1:D:533:THR:HG22	1:D:569:GLU:H	1.70	0.56
1:E:351:PRO:HB3	1:F:430:GLN:HE22	1.71	0.56
1:N:430:GLN:HE22	1:P:351:PRO:HB3	1.71	0.56
1:T:299:LEU:HD21	1:T:306:LEU:HD22	1.87	0.56
1:X:295:ASP:OD1	1:X:298:ARG:NH1	2.39	0.56
1:o:295:ASP:OD1	1:o:298:ARG:NH1	2.39	0.56
1:u:430:GLN:HE22	1:v:351:PRO:HB3	1.71	0.56
1:E:295:ASP:OD1	1:E:298:ARG:NH1	2.39	0.56
1:I:617:ASP:OD1	1:I:735:SER:OG	2.20	0.56
1:L:533:THR:HG22	1:L:569:GLU:H	1.70	0.56
1:M:299:LEU:HD21	1:M:306:LEU:HD22	1.87	0.56
1:O:351:PRO:HB3	1:n:430:GLN:HE22	1.71	0.56
1:T:351:PRO:HB3	1:l:430:GLN:HE22	1.71	0.56
1:a:295:ASP:OD1	1:a:298:ARG:NH1	2.39	0.56
1:d:430:GLN:HE22	1:l:351:PRO:HB3	1.71	0.56
1:g:295:ASP:OD1	1:g:298:ARG:NH1	2.39	0.56
1:g:321:LYS:NZ	1:g:334:ASN:OD1	2.27	0.56
1:h:299:LEU:HD21	1:h:306:LEU:HD22	1.87	0.56
1:i:430:GLN:HE22	1:j:351:PRO:HB3	1.71	0.56
1:u:299:LEU:HD21	1:u:306:LEU:HD22	1.87	0.56
1:w:351:PRO:HB3	1:y:430:GLN:HE22	1.71	0.56
1:x:295:ASP:OD1	1:x:298:ARG:NH1	2.39	0.56
1:3:295:ASP:OD1	1:3:298:ARG:NH1	2.39	0.56
1:G:617:ASP:OD1	1:G:735:SER:OG	2.20	0.55
1:N:295:ASP:OD1	1:N:298:ARG:NH1	2.39	0.55
1:O:295:ASP:OD1	1:O:298:ARG:NH1	2.39	0.55
1:Q:295:ASP:OD1	1:Q:298:ARG:NH1	2.39	0.55
1:V:295:ASP:OD1	1:V:298:ARG:NH1	2.39	0.55
1:X:299:LEU:HD21	1:X:306:LEU:HD22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:430:GLN:HE22	1:8:351:PRO:HB3	1.71	0.55
1:b:295:ASP:OD1	1:b:298:ARG:NH1	2.39	0.55
1:c:295:ASP:OD1	1:c:298:ARG:NH1	2.39	0.55
1:e:295:ASP:OD1	1:e:298:ARG:NH1	2.39	0.55
1:f:295:ASP:OD1	1:f:298:ARG:NH1	2.39	0.55
1:i:295:ASP:OD1	1:i:298:ARG:NH1	2.39	0.55
1:l:295:ASP:OD1	1:l:298:ARG:NH1	2.39	0.55
1:n:295:ASP:OD1	1:n:298:ARG:NH1	2.39	0.55
1:n:299:LEU:HD21	1:n:306:LEU:HD22	1.87	0.55
1:o:299:LEU:HD21	1:o:306:LEU:HD22	1.87	0.55
1:q:299:LEU:HD21	1:q:306:LEU:HD22	1.87	0.55
1:r:617:ASP:OD1	1:r:735:SER:OG	2.20	0.55
1:w:295:ASP:OD1	1:w:298:ARG:NH1	2.39	0.55
1:D:295:ASP:OD1	1:D:298:ARG:NH1	2.39	0.55
1:I:299:LEU:HD21	1:I:306:LEU:HD22	1.87	0.55
1:K:351:PRO:HB3	1:8:430:GLN:HE22	1.71	0.55
1:L:295:ASP:OD1	1:L:298:ARG:NH1	2.39	0.55
1:O:430:GLN:HE22	1:m:351:PRO:HB3	1.72	0.55
1:S:295:ASP:OD1	1:S:298:ARG:NH1	2.39	0.55
1:Z:351:PRO:HB3	1:3:430:GLN:HE22	1.71	0.55
1:d:295:ASP:OD1	1:d:298:ARG:NH1	2.39	0.55
1:d:299:LEU:HD21	1:d:306:LEU:HD22	1.87	0.55
1:k:295:ASP:OD1	1:k:298:ARG:NH1	2.39	0.55
1:l:569:GLU:OE2	1:l:619:TYR:OH	2.20	0.55
1:p:295:ASP:OD1	1:p:298:ARG:NH1	2.39	0.55
1:q:295:ASP:OD1	1:q:298:ARG:NH1	2.39	0.55
1:r:295:ASP:OD1	1:r:298:ARG:NH1	2.39	0.55
1:r:430:GLN:HE22	1:s:351:PRO:HB3	1.71	0.55
1:z:295:ASP:OD1	1:z:298:ARG:NH1	2.39	0.55
1:A:430:GLN:HE22	1:G:351:PRO:HB3	1.71	0.55
1:G:295:ASP:OD1	1:G:298:ARG:NH1	2.39	0.55
1:H:569:GLU:OE2	1:H:619:TYR:OH	2.20	0.55
1:R:295:ASP:OD1	1:R:298:ARG:NH1	2.39	0.55
1:R:299:LEU:HD21	1:R:306:LEU:HD22	1.87	0.55
1:T:295:ASP:OD1	1:T:298:ARG:NH1	2.39	0.55
1:W:295:ASP:OD1	1:W:298:ARG:NH1	2.39	0.55
1:Z:430:GLN:HE22	1:4:351:PRO:HB3	1.71	0.55
1:f:351:PRO:HB3	1:g:430:GLN:HE22	1.72	0.55
1:m:295:ASP:OD1	1:m:298:ARG:NH1	2.39	0.55
1:n:533:THR:HG22	1:n:569:GLU:H	1.70	0.55
1:n:569:GLU:OE2	1:n:619:TYR:OH	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:569:GLU:OE2	1:x:619:TYR:OH	2.20	0.55
1:z:430:GLN:HE22	1:1:351:PRO:HB3	1.71	0.55
1:6:295:ASP:OD1	1:6:298:ARG:NH1	2.39	0.55
1:A:351:PRO:HB3	1:I:430:GLN:HE22	1.72	0.55
1:C:351:PRO:HB3	1:M:430:GLN:HE22	1.71	0.55
1:O:299:LEU:HD21	1:O:306:LEU:HD22	1.87	0.55
1:Q:569:GLU:OE2	1:Q:619:TYR:OH	2.20	0.55
1:t:295:ASP:OD1	1:t:298:ARG:NH1	2.39	0.55
1:t:351:PRO:HB3	1:v:430:GLN:HE22	1.71	0.55
1:2:295:ASP:OD1	1:2:298:ARG:NH1	2.39	0.55
1:7:617:ASP:OD1	1:7:735:SER:OG	2.20	0.55
1:B:351:PRO:HB3	1:L:430:GLN:HE22	1.71	0.55
1:C:430:GLN:HE22	1:b:351:PRO:HB3	1.72	0.55
1:D:621:GLN:NE2	1:D:731:ARG:O	2.40	0.55
1:E:621:GLN:NE2	1:E:731:ARG:O	2.40	0.55
1:G:430:GLN:HE22	1:I:351:PRO:HB3	1.72	0.55
1:H:295:ASP:OD1	1:H:298:ARG:NH1	2.39	0.55
1:J:295:ASP:OD1	1:J:298:ARG:NH1	2.39	0.55
1:R:621:GLN:NE2	1:R:731:ARG:O	2.40	0.55
1:g:351:PRO:HB3	1:h:430:GLN:HE22	1.71	0.55
1:l:299:LEU:HD21	1:l:306:LEU:HD22	1.87	0.55
1:w:621:GLN:NE2	1:w:731:ARG:O	2.40	0.55
1:y:533:THR:HG22	1:y:569:GLU:H	1.70	0.55
1:5:295:ASP:OD1	1:5:298:ARG:NH1	2.39	0.55
1:8:621:GLN:NE2	1:8:731:ARG:O	2.40	0.55
1:B:430:GLN:HE22	1:J:351:PRO:HB3	1.71	0.55
1:C:621:GLN:NE2	1:C:731:ARG:O	2.40	0.55
1:J:617:ASP:OD1	1:J:735:SER:OG	2.20	0.55
1:O:569:GLU:OE2	1:O:619:TYR:OH	2.20	0.55
1:P:295:ASP:OD1	1:P:298:ARG:NH1	2.39	0.55
1:T:430:GLN:HE22	1:d:351:PRO:HB3	1.72	0.55
1:Z:621:GLN:NE2	1:Z:731:ARG:O	2.40	0.55
1:c:569:GLU:OE2	1:c:619:TYR:OH	2.20	0.55
1:d:533:THR:HG22	1:d:569:GLU:H	1.70	0.55
1:g:621:GLN:NE2	1:g:731:ARG:O	2.40	0.55
1:k:621:GLN:NE2	1:k:731:ARG:O	2.40	0.55
1:m:430:GLN:HE22	1:n:351:PRO:HB3	1.72	0.55
1:q:533:THR:HG22	1:q:569:GLU:H	1.70	0.55
1:q:621:GLN:NE2	1:q:731:ARG:O	2.40	0.55
1:r:569:GLU:OE2	1:r:619:TYR:OH	2.20	0.55
1:t:430:GLN:HE22	1:u:351:PRO:HB3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:533:THR:HG22	1:t:569:GLU:H	1.70	0.55
1:L:621:GLN:NE2	1:L:731:ARG:O	2.40	0.55
1:O:621:GLN:NE2	1:O:731:ARG:O	2.40	0.55
1:P:621:GLN:NE2	1:P:731:ARG:O	2.40	0.55
1:R:533:THR:HG22	1:R:569:GLU:H	1.70	0.55
1:T:569:GLU:OE2	1:T:619:TYR:OH	2.20	0.55
1:d:569:GLU:OE2	1:d:619:TYR:OH	2.20	0.55
1:h:295:ASP:OD1	1:h:298:ARG:NH1	2.39	0.55
1:i:351:PRO:HB3	1:k:430:GLN:HE22	1.72	0.55
1:i:533:THR:HG22	1:i:569:GLU:H	1.70	0.55
1:j:295:ASP:OD1	1:j:298:ARG:NH1	2.39	0.55
1:j:621:GLN:NE2	1:j:731:ARG:O	2.40	0.55
1:l:621:GLN:NE2	1:l:731:ARG:O	2.40	0.55
1:q:351:PRO:HB3	1:s:430:GLN:HE22	1.71	0.55
1:B:621:GLN:NE2	1:B:731:ARG:O	2.40	0.55
1:D:430:GLN:HE22	1:N:351:PRO:HB3	1.72	0.55
1:F:533:THR:HG22	1:F:569:GLU:H	1.70	0.55
1:F:621:GLN:NE2	1:F:731:ARG:O	2.40	0.55
1:H:430:GLN:HE22	1:W:351:PRO:HB3	1.71	0.55
1:I:295:ASP:OD1	1:I:298:ARG:NH1	2.39	0.55
1:M:295:ASP:OD1	1:M:298:ARG:NH1	2.39	0.55
1:P:533:THR:HG22	1:P:569:GLU:H	1.70	0.55
1:S:569:GLU:OE2	1:S:619:TYR:OH	2.20	0.55
1:S:621:GLN:NE2	1:S:731:ARG:O	2.40	0.55
1:b:299:LEU:HD21	1:b:306:LEU:HD22	1.87	0.55
1:e:569:GLU:OE2	1:e:619:TYR:OH	2.20	0.55
1:f:621:GLN:NE2	1:f:731:ARG:O	2.40	0.55
1:j:533:THR:HG22	1:j:569:GLU:H	1.70	0.55
1:r:621:GLN:NE2	1:r:731:ARG:O	2.40	0.55
1:x:430:GLN:HE22	1:y:351:PRO:HB3	1.72	0.55
1:z:621:GLN:NE2	1:z:731:ARG:O	2.40	0.55
1:5:430:GLN:HE22	1:6:351:PRO:HB3	1.71	0.55
1:8:569:GLU:OE2	1:8:619:TYR:OH	2.20	0.55
1:B:295:ASP:OD1	1:B:298:ARG:NH1	2.39	0.55
1:F:351:PRO:HB3	1:Q:430:GLN:HE22	1.72	0.55
1:G:533:THR:HG22	1:G:569:GLU:H	1.70	0.55
1:J:621:GLN:NE2	1:J:731:ARG:O	2.40	0.55
1:N:533:THR:HG22	1:N:569:GLU:H	1.70	0.55
1:R:351:PRO:HB3	1:U:430:GLN:NE2	2.22	0.55
1:X:533:THR:HG22	1:X:569:GLU:H	1.70	0.55
1:a:617:ASP:OD1	1:a:735:SER:OG	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:621:GLN:NE2	1:b:731:ARG:O	2.40	0.55
1:h:617:ASP:OD1	1:h:735:SER:OG	2.20	0.55
1:o:533:THR:HG22	1:o:569:GLU:H	1.70	0.55
1:q:430:GLN:HE22	1:r:351:PRO:HB3	1.71	0.55
1:q:617:ASP:OD1	1:q:735:SER:OG	2.20	0.55
1:u:295:ASP:OD1	1:u:298:ARG:NH1	2.39	0.55
1:y:621:GLN:NE2	1:y:731:ARG:O	2.40	0.55
1:1:621:GLN:NE2	1:1:731:ARG:O	2.40	0.55
1:2:621:GLN:NE2	1:2:731:ARG:O	2.40	0.55
1:3:351:PRO:HB3	1:4:430:GLN:HE22	1.72	0.55
1:4:295:ASP:OD1	1:4:298:ARG:NH1	2.39	0.55
1:F:295:ASP:OD1	1:F:298:ARG:NH1	2.39	0.55
1:K:430:GLN:HE22	1:a:351:PRO:HB3	1.72	0.55
1:N:430:GLN:NE2	1:P:351:PRO:HB3	2.22	0.55
1:O:351:PRO:HB3	1:n:430:GLN:NE2	2.22	0.55
1:U:621:GLN:NE2	1:U:731:ARG:O	2.40	0.55
1:d:430:GLN:NE2	1:l:351:PRO:HB3	2.22	0.55
1:f:299:LEU:HD21	1:f:306:LEU:HD22	1.87	0.55
1:q:430:GLN:NE2	1:r:351:PRO:HB3	2.23	0.55
1:s:617:ASP:OD1	1:s:735:SER:OG	2.20	0.55
1:v:295:ASP:OD1	1:v:298:ARG:NH1	2.39	0.55
1:2:617:ASP:OD1	1:2:735:SER:OG	2.20	0.55
1:A:430:GLN:NE2	1:G:351:PRO:HB3	2.22	0.54
1:A:621:GLN:NE2	1:A:731:ARG:O	2.40	0.54
1:K:295:ASP:OD1	1:K:298:ARG:NH1	2.39	0.54
1:K:621:GLN:NE2	1:K:731:ARG:O	2.40	0.54
1:P:487:LYS:NZ	1:P:580:THR:O	2.41	0.54
1:R:430:GLN:HE22	1:S:351:PRO:HB3	1.71	0.54
1:R:430:GLN:NE2	1:S:351:PRO:HB3	2.23	0.54
1:R:617:ASP:OD1	1:R:735:SER:OG	2.20	0.54
1:U:295:ASP:OD1	1:U:298:ARG:NH1	2.39	0.54
1:V:351:PRO:HB3	1:X:430:GLN:HE22	1.71	0.54
1:W:430:GLN:HE22	1:Y:351:PRO:HB3	1.72	0.54
1:Z:295:ASP:OD1	1:Z:298:ARG:NH1	2.39	0.54
1:Z:617:ASP:OD1	1:Z:735:SER:OG	2.20	0.54
1:c:351:PRO:HB3	1:p:430:GLN:HE22	1.72	0.54
1:i:430:GLN:NE2	1:j:351:PRO:HB3	2.22	0.54
1:j:487:LYS:NZ	1:j:580:THR:O	2.41	0.54
1:m:569:GLU:OE2	1:m:619:TYR:OH	2.20	0.54
1:o:621:GLN:NE2	1:o:731:ARG:O	2.40	0.54
1:s:621:GLN:NE2	1:s:731:ARG:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:621:GLN:NE2	1:t:731:ARG:O	2.40	0.54
1:y:295:ASP:OD1	1:y:298:ARG:NH1	2.39	0.54
1:1:295:ASP:OD1	1:1:298:ARG:NH1	2.39	0.54
1:4:621:GLN:NE2	1:4:731:ARG:O	2.40	0.54
1:A:295:ASP:OD1	1:A:298:ARG:NH1	2.39	0.54
1:E:487:LYS:NZ	1:E:580:THR:O	2.41	0.54
1:F:487:LYS:NZ	1:F:580:THR:O	2.41	0.54
1:G:621:GLN:NE2	1:G:731:ARG:O	2.40	0.54
1:H:621:GLN:NE2	1:H:731:ARG:O	2.40	0.54
1:K:487:LYS:NZ	1:K:580:THR:O	2.41	0.54
1:M:351:PRO:HB3	1:b:430:GLN:HE22	1.71	0.54
1:O:617:ASP:OD1	1:O:735:SER:OG	2.20	0.54
1:Q:487:LYS:NZ	1:Q:580:THR:O	2.41	0.54
1:T:487:LYS:NZ	1:T:580:THR:O	2.41	0.54
1:U:487:LYS:NZ	1:U:580:THR:O	2.41	0.54
1:U:617:ASP:OD1	1:U:735:SER:OG	2.20	0.54
1:V:430:GLN:HE22	1:e:351:PRO:HB3	1.72	0.54
1:V:533:THR:HG22	1:V:569:GLU:H	1.70	0.54
1:X:621:GLN:NE2	1:X:731:ARG:O	2.40	0.54
1:Y:295:ASP:OD1	1:Y:298:ARG:NH1	2.39	0.54
1:f:487:LYS:NZ	1:f:580:THR:O	2.41	0.54
1:m:487:LYS:NZ	1:m:580:THR:O	2.41	0.54
1:o:430:GLN:HE22	1:p:351:PRO:HB3	1.71	0.54
1:p:533:THR:HG22	1:p:569:GLU:H	1.70	0.54
1:s:295:ASP:OD1	1:s:298:ARG:NH1	2.39	0.54
1:t:569:GLU:OE2	1:t:619:TYR:OH	2.20	0.54
1:u:621:GLN:NE2	1:u:731:ARG:O	2.40	0.54
1:v:621:GLN:NE2	1:v:731:ARG:O	2.40	0.54
1:x:487:LYS:NZ	1:x:580:THR:O	2.41	0.54
1:3:617:ASP:OD1	1:3:735:SER:OG	2.20	0.54
1:4:487:LYS:NZ	1:4:580:THR:O	2.41	0.54
1:5:621:GLN:NE2	1:5:731:ARG:O	2.40	0.54
1:6:487:LYS:NZ	1:6:580:THR:O	2.41	0.54
1:8:617:ASP:OD1	1:8:735:SER:OG	2.20	0.54
1:D:487:LYS:NZ	1:D:580:THR:O	2.41	0.54
1:I:487:LYS:NZ	1:I:580:THR:O	2.41	0.54
1:I:621:GLN:NE2	1:I:731:ARG:O	2.40	0.54
1:M:617:ASP:OD1	1:M:735:SER:OG	2.20	0.54
1:Q:621:GLN:NE2	1:Q:731:ARG:O	2.40	0.54
1:W:487:LYS:NZ	1:W:580:THR:O	2.41	0.54
1:X:487:LYS:NZ	1:X:580:THR:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:621:GLN:NE2	1:a:731:ARG:O	2.40	0.54
1:b:487:LYS:NZ	1:b:580:THR:O	2.41	0.54
1:d:621:GLN:NE2	1:d:731:ARG:O	2.40	0.54
1:f:429:SER:C	1:h:380:VAL:HG23	2.33	0.54
1:j:430:GLN:HE22	1:k:351:PRO:HB3	1.71	0.54
1:l:617:ASP:OD1	1:l:735:SER:OG	2.20	0.54
1:n:621:GLN:NE2	1:n:731:ARG:O	2.40	0.54
1:o:487:LYS:NZ	1:o:580:THR:O	2.41	0.54
1:u:430:GLN:NE2	1:v:351:PRO:HB3	2.23	0.54
1:w:487:LYS:NZ	1:w:580:THR:O	2.41	0.54
1:y:487:LYS:NZ	1:y:580:THR:O	2.41	0.54
1:1:487:LYS:NZ	1:1:580:THR:O	2.41	0.54
1:6:430:GLN:HE22	1:7:351:PRO:HB3	1.72	0.54
1:7:295:ASP:OD1	1:7:298:ARG:NH1	2.39	0.54
1:8:295:ASP:OD1	1:8:298:ARG:NH1	2.39	0.54
1:B:487:LYS:NZ	1:B:580:THR:O	2.41	0.54
1:E:351:PRO:HB3	1:F:430:GLN:NE2	2.23	0.54
1:M:351:PRO:HB3	1:b:430:GLN:NE2	2.22	0.54
1:M:380:VAL:HG23	1:b:429:SER:C	2.33	0.54
1:T:621:GLN:NE2	1:T:731:ARG:O	2.40	0.54
1:Y:621:GLN:NE2	1:Y:731:ARG:O	2.40	0.54
1:f:430:GLN:NE2	1:h:351:PRO:HB3	2.22	0.54
1:k:487:LYS:NZ	1:k:580:THR:O	2.41	0.54
1:p:621:GLN:NE2	1:p:731:ARG:O	2.40	0.54
1:s:487:LYS:NZ	1:s:580:THR:O	2.41	0.54
1:t:351:PRO:HB3	1:v:430:GLN:NE2	2.22	0.54
1:u:487:LYS:NZ	1:u:580:THR:O	2.41	0.54
1:w:351:PRO:HB3	1:y:430:GLN:NE2	2.22	0.54
1:x:621:GLN:NE2	1:x:731:ARG:O	2.40	0.54
1:1:430:GLN:NE2	1:2:351:PRO:HB3	2.22	0.54
1:3:621:GLN:NE2	1:3:731:ARG:O	2.40	0.54
1:B:429:SER:C	1:J:380:VAL:HG23	2.33	0.54
1:D:351:PRO:HB3	1:P:430:GLN:HE22	1.71	0.54
1:D:430:GLN:NE2	1:N:351:PRO:HB3	2.23	0.54
1:G:569:GLU:OE2	1:G:619:TYR:OH	2.20	0.54
1:N:621:GLN:NE2	1:N:731:ARG:O	2.40	0.54
1:V:429:SER:C	1:e:380:VAL:HG23	2.33	0.54
1:V:621:GLN:NE2	1:V:731:ARG:O	2.40	0.54
1:Y:487:LYS:NZ	1:Y:580:THR:O	2.41	0.54
1:c:380:VAL:HG23	1:p:429:SER:C	2.33	0.54
1:f:430:GLN:HE22	1:h:351:PRO:HB3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:569:GLU:OE2	1:f:619:TYR:OH	2.20	0.54
1:i:487:LYS:NZ	1:i:580:THR:O	2.41	0.54
1:i:621:GLN:NE2	1:i:731:ARG:O	2.40	0.54
1:m:621:GLN:NE2	1:m:731:ARG:O	2.40	0.54
1:z:487:LYS:NZ	1:z:580:THR:O	2.41	0.54
1:4:617:ASP:OD1	1:4:735:SER:OG	2.20	0.54
1:5:351:PRO:HB3	1:7:430:GLN:NE2	2.22	0.54
1:7:487:LYS:NZ	1:7:580:THR:O	2.41	0.54
1:7:621:GLN:NE2	1:7:731:ARG:O	2.40	0.54
1:A:487:LYS:NZ	1:A:580:THR:O	2.41	0.54
1:C:429:SER:C	1:b:380:VAL:HG23	2.33	0.54
1:C:487:LYS:NZ	1:C:580:THR:O	2.41	0.54
1:G:430:GLN:NE2	1:I:351:PRO:HB3	2.23	0.54
1:H:351:PRO:HB3	1:Y:430:GLN:NE2	2.22	0.54
1:H:487:LYS:NZ	1:H:580:THR:O	2.41	0.54
1:J:430:GLN:HE22	1:L:351:PRO:HB3	1.71	0.54
1:L:487:LYS:NZ	1:L:580:THR:O	2.41	0.54
1:N:487:LYS:NZ	1:N:580:THR:O	2.41	0.54
1:S:429:SER:C	1:U:380:VAL:HG23	2.33	0.54
1:X:380:VAL:HG23	1:e:429:SER:C	2.33	0.54
1:c:621:GLN:NE2	1:c:731:ARG:O	2.40	0.54
1:e:621:GLN:NE2	1:e:731:ARG:O	2.40	0.54
1:i:351:PRO:HB3	1:k:430:GLN:NE2	2.23	0.54
1:n:487:LYS:NZ	1:n:580:THR:O	2.41	0.54
1:o:429:SER:C	1:p:380:VAL:HG23	2.33	0.54
1:q:351:PRO:HB3	1:s:430:GLN:NE2	2.23	0.54
1:r:429:SER:C	1:s:380:VAL:HG23	2.33	0.54
1:v:487:LYS:NZ	1:v:580:THR:O	2.41	0.54
1:z:429:SER:C	1:1:380:VAL:HG23	2.33	0.54
1:8:487:LYS:NZ	1:8:580:THR:O	2.41	0.54
1:B:380:VAL:HG23	1:L:429:SER:C	2.33	0.54
1:E:380:VAL:HG23	1:F:429:SER:C	2.33	0.54
1:G:429:SER:C	1:I:380:VAL:HG23	2.32	0.54
1:G:487:LYS:NZ	1:G:580:THR:O	2.41	0.54
1:J:487:LYS:NZ	1:J:580:THR:O	2.41	0.54
1:T:380:VAL:HG23	1:l:429:SER:C	2.33	0.54
1:V:380:VAL:HG23	1:X:429:SER:C	2.33	0.54
1:Z:487:LYS:NZ	1:Z:580:THR:O	2.41	0.54
1:b:569:GLU:OE2	1:b:619:TYR:OH	2.20	0.54
1:c:429:SER:C	1:o:380:VAL:HG23	2.33	0.54
1:d:487:LYS:NZ	1:d:580:THR:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:487:LYS:NZ	1:g:580:THR:O	2.41	0.54
1:t:429:SER:C	1:u:380:VAL:HG23	2.32	0.54
1:t:430:GLN:NE2	1:u:351:PRO:HB3	2.23	0.54
1:w:380:VAL:HG23	1:y:429:SER:C	2.33	0.54
1:z:430:GLN:NE2	1:1:351:PRO:HB3	2.23	0.54
1:5:430:GLN:NE2	1:6:351:PRO:HB3	2.22	0.54
1:5:487:LYS:NZ	1:5:580:THR:O	2.41	0.54
1:A:351:PRO:HB3	1:I:430:GLN:NE2	2.23	0.54
1:B:351:PRO:HB3	1:L:430:GLN:NE2	2.23	0.54
1:B:430:GLN:NE2	1:J:351:PRO:HB3	2.23	0.54
1:C:351:PRO:HB3	1:M:430:GLN:NE2	2.23	0.54
1:H:430:GLN:NE2	1:W:351:PRO:HB3	2.22	0.54
1:K:617:ASP:OD1	1:K:735:SER:OG	2.20	0.54
1:M:621:GLN:NE2	1:M:731:ARG:O	2.40	0.54
1:N:279:TRP:NE1	1:N:397:LEU:HB2	2.23	0.54
1:O:429:SER:C	1:m:380:VAL:HG23	2.33	0.54
1:S:430:GLN:NE2	1:U:351:PRO:HB3	2.22	0.54
1:f:351:PRO:HB3	1:g:430:GLN:NE2	2.23	0.54
1:f:380:VAL:HG23	1:g:429:SER:C	2.33	0.54
1:g:351:PRO:HB3	1:h:430:GLN:NE2	2.23	0.54
1:g:380:VAL:HG23	1:h:429:SER:C	2.33	0.54
1:i:279:TRP:NE1	1:i:397:LEU:HB2	2.23	0.54
1:r:487:LYS:NZ	1:r:580:THR:O	2.41	0.54
1:t:487:LYS:NZ	1:t:580:THR:O	2.41	0.54
1:x:617:ASP:OD1	1:x:735:SER:OG	2.20	0.54
1:1:429:SER:C	1:2:380:VAL:HG23	2.33	0.54
1:2:487:LYS:NZ	1:2:580:THR:O	2.41	0.54
1:3:380:VAL:HG23	1:4:429:SER:C	2.33	0.54
1:C:380:VAL:HG23	1:M:429:SER:C	2.33	0.54
1:J:279:TRP:NE1	1:J:397:LEU:HB2	2.23	0.54
1:K:429:SER:C	1:a:380:VAL:HG23	2.33	0.54
1:O:321:LYS:NZ	1:O:334:ASN:OD1	2.27	0.54
1:W:279:TRP:NE1	1:W:397:LEU:HB2	2.23	0.54
1:W:321:LYS:NZ	1:W:334:ASN:OD1	2.27	0.54
1:W:430:GLN:NE2	1:Y:351:PRO:HB3	2.23	0.54
1:c:279:TRP:NE1	1:c:397:LEU:HB2	2.23	0.54
1:e:279:TRP:NE1	1:e:397:LEU:HB2	2.23	0.54
1:h:621:GLN:NE2	1:h:731:ARG:O	2.40	0.54
1:j:430:GLN:NE2	1:k:351:PRO:HB3	2.22	0.54
1:l:279:TRP:NE1	1:l:397:LEU:HB2	2.23	0.54
1:m:682:THR:HG21	1:s:661:PRO:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:430:GLN:NE2	1:y:351:PRO:HB3	2.23	0.54
1:z:351:PRO:HB3	1:2:430:GLN:HE22	1.72	0.54
1:2:279:TRP:NE1	1:2:397:LEU:HB2	2.23	0.54
1:6:429:SER:C	1:7:380:VAL:HG23	2.33	0.54
1:B:279:TRP:NE1	1:B:397:LEU:HB2	2.23	0.54
1:C:430:GLN:NE2	1:b:351:PRO:HB3	2.23	0.54
1:D:279:TRP:NE1	1:D:397:LEU:HB2	2.23	0.54
1:O:279:TRP:NE1	1:O:397:LEU:HB2	2.23	0.54
1:P:348:TYR:OH	1:P:649:PRO:O	2.25	0.54
1:S:321:LYS:NZ	1:S:334:ASN:OD1	2.27	0.54
1:S:487:LYS:NZ	1:S:580:THR:O	2.41	0.54
1:V:351:PRO:HB3	1:X:430:GLN:NE2	2.23	0.54
1:W:429:SER:C	1:Y:380:VAL:HG23	2.33	0.54
1:Y:279:TRP:NE1	1:Y:397:LEU:HB2	2.23	0.54
1:a:487:LYS:NZ	1:a:580:THR:O	2.41	0.54
1:b:279:TRP:NE1	1:b:397:LEU:HB2	2.23	0.54
1:f:279:TRP:NE1	1:f:397:LEU:HB2	2.23	0.54
1:k:279:TRP:NE1	1:k:397:LEU:HB2	2.23	0.54
1:n:279:TRP:NE1	1:n:397:LEU:HB2	2.23	0.54
1:o:430:GLN:NE2	1:p:351:PRO:HB3	2.23	0.54
1:1:279:TRP:NE1	1:1:397:LEU:HB2	2.23	0.54
1:4:279:TRP:NE1	1:4:397:LEU:HB2	2.23	0.54
1:6:279:TRP:NE1	1:6:397:LEU:HB2	2.23	0.54
1:D:351:PRO:HB3	1:P:430:GLN:NE2	2.22	0.53
1:E:430:GLN:HE22	1:Q:351:PRO:HB3	1.72	0.53
1:F:351:PRO:HB3	1:Q:430:GLN:NE2	2.23	0.53
1:F:661:PRO:HD2	1:R:682:THR:HG21	1.90	0.53
1:H:429:SER:C	1:W:380:VAL:HG23	2.33	0.53
1:K:279:TRP:NE1	1:K:397:LEU:HB2	2.23	0.53
1:L:279:TRP:NE1	1:L:397:LEU:HB2	2.23	0.53
1:P:682:THR:HG21	1:Q:661:PRO:HD2	1.90	0.53
1:Q:617:ASP:OD1	1:Q:735:SER:OG	2.20	0.53
1:S:682:THR:HG21	1:d:661:PRO:HD2	1.90	0.53
1:Z:279:TRP:NE1	1:Z:397:LEU:HB2	2.23	0.53
1:Z:351:PRO:HB3	1:3:430:GLN:NE2	2.22	0.53
1:a:279:TRP:NE1	1:a:397:LEU:HB2	2.23	0.53
1:d:279:TRP:NE1	1:d:397:LEU:HB2	2.23	0.53
1:j:682:THR:HG21	1:x:661:PRO:HD2	1.90	0.53
1:q:682:THR:HG21	1:y:661:PRO:HD2	1.90	0.53
1:r:321:LYS:NZ	1:r:334:ASN:OD1	2.27	0.53
1:r:430:GLN:NE2	1:s:351:PRO:HB3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:430:GLN:HE22	1:x:351:PRO:HB3	1.72	0.53
1:z:279:TRP:NE1	1:z:397:LEU:HB2	2.23	0.53
1:z:661:PRO:HD2	1:4:682:THR:HG21	1.90	0.53
1:3:487:LYS:NZ	1:3:580:THR:O	2.41	0.53
1:5:429:SER:C	1:6:380:VAL:HG23	2.33	0.53
1:6:430:GLN:NE2	1:7:351:PRO:HB3	2.23	0.53
1:6:621:GLN:NE2	1:6:731:ARG:O	2.40	0.53
1:7:279:TRP:NE1	1:7:397:LEU:HB2	2.23	0.53
1:J:429:SER:C	1:L:380:VAL:HG23	2.33	0.53
1:T:429:SER:C	1:d:380:VAL:HG23	2.33	0.53
1:c:321:LYS:NZ	1:c:334:ASN:OD1	2.27	0.53
1:h:487:LYS:NZ	1:h:580:THR:O	2.41	0.53
1:i:380:VAL:HG23	1:k:429:SER:C	2.33	0.53
1:o:617:ASP:OD1	1:o:735:SER:OG	2.20	0.53
1:t:279:TRP:NE1	1:t:397:LEU:HB2	2.23	0.53
1:3:279:TRP:NE1	1:3:397:LEU:HB2	2.23	0.53
1:8:279:TRP:NE1	1:8:397:LEU:HB2	2.23	0.53
1:C:661:PRO:HD2	1:D:682:THR:HG21	1.90	0.53
1:D:380:VAL:HG23	1:P:429:SER:C	2.33	0.53
1:G:279:TRP:NE1	1:G:397:LEU:HB2	2.23	0.53
1:K:682:THR:HG21	1:L:661:PRO:HD2	1.90	0.53
1:W:621:GLN:NE2	1:W:731:ARG:O	2.40	0.53
1:a:430:GLN:NE2	1:8:351:PRO:HB3	2.22	0.53
1:c:430:GLN:NE2	1:o:351:PRO:HB3	2.22	0.53
1:c:617:ASP:OD1	1:c:735:SER:OG	2.20	0.53
1:j:429:SER:C	1:k:380:VAL:HG23	2.33	0.53
1:j:661:PRO:HD2	1:l:682:THR:HG21	1.91	0.53
1:l:321:LYS:NZ	1:l:334:ASN:OD1	2.27	0.53
1:n:661:PRO:HD2	1:r:682:THR:HG21	1.91	0.53
1:t:380:VAL:HG23	1:v:429:SER:C	2.33	0.53
1:u:661:PRO:HD2	1:5:682:THR:HG21	1.90	0.53
1:x:279:TRP:NE1	1:x:397:LEU:HB2	2.23	0.53
1:z:380:VAL:HG23	1:2:429:SER:C	2.33	0.53
1:1:418:GLU:OE2	1:1:647:LYS:N	2.42	0.53
1:A:380:VAL:HG23	1:I:429:SER:C	2.32	0.53
1:A:429:SER:C	1:G:380:VAL:HG23	2.33	0.53
1:A:661:PRO:HD2	1:B:682:THR:HG21	1.90	0.53
1:A:682:THR:HG21	1:E:661:PRO:HD2	1.90	0.53
1:B:418:GLU:OE2	1:B:647:LYS:N	2.42	0.53
1:D:429:SER:C	1:N:380:VAL:HG23	2.33	0.53
1:H:321:LYS:NZ	1:H:334:ASN:OD1	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:682:THR:HG21	1:I:661:PRO:HD2	1.90	0.53
1:M:487:LYS:NZ	1:M:580:THR:O	2.41	0.53
1:M:661:PRO:HD2	1:c:682:THR:HG21	1.91	0.53
1:O:682:THR:HG21	1:P:661:PRO:HD2	1.91	0.53
1:Q:279:TRP:NE1	1:Q:397:LEU:HB2	2.23	0.53
1:S:418:GLU:OE2	1:S:647:LYS:N	2.42	0.53
1:T:682:THR:HG21	1:U:661:PRO:HD2	1.91	0.53
1:V:418:GLU:OE2	1:V:647:LYS:N	2.42	0.53
1:V:430:GLN:NE2	1:e:351:PRO:HB3	2.23	0.53
1:X:351:PRO:HB3	1:e:430:GLN:NE2	2.22	0.53
1:Z:429:SER:C	1:4:380:VAL:HG23	2.33	0.53
1:b:682:THR:HG21	1:o:661:PRO:HD2	1.91	0.53
1:c:351:PRO:HB3	1:p:430:GLN:NE2	2.23	0.53
1:g:661:PRO:HD2	1:k:682:THR:HG21	1.90	0.53
1:j:617:ASP:OD1	1:j:735:SER:OG	2.20	0.53
1:m:429:SER:C	1:n:380:VAL:HG23	2.33	0.53
1:m:430:GLN:NE2	1:n:351:PRO:HB3	2.23	0.53
1:p:418:GLU:OE2	1:p:647:LYS:N	2.42	0.53
1:r:418:GLU:OE2	1:r:647:LYS:N	2.42	0.53
1:u:682:THR:HG21	1:2:661:PRO:HD2	1.90	0.53
1:5:380:VAL:HG23	1:7:429:SER:C	2.33	0.53
1:7:418:GLU:OE2	1:7:647:LYS:N	2.42	0.53
1:H:380:VAL:HG23	1:Y:429:SER:C	2.33	0.53
1:I:682:THR:HG21	1:J:661:PRO:HD2	1.90	0.53
1:J:682:THR:HG21	1:a:661:PRO:HD2	1.91	0.53
1:K:380:VAL:HG23	1:8:429:SER:C	2.33	0.53
1:Q:418:GLU:OE2	1:Q:647:LYS:N	2.42	0.53
1:T:418:GLU:OE2	1:T:647:LYS:N	2.42	0.53
1:T:430:GLN:NE2	1:d:351:PRO:HB3	2.23	0.53
1:X:617:ASP:OD1	1:X:735:SER:OG	2.20	0.53
1:X:661:PRO:HD2	1:f:682:THR:HG21	1.91	0.53
1:X:682:THR:HG21	1:Y:661:PRO:HD2	1.91	0.53
1:Y:418:GLU:OE2	1:Y:647:LYS:N	2.42	0.53
1:c:487:LYS:NZ	1:c:580:THR:O	2.41	0.53
1:d:348:TYR:OH	1:d:649:PRO:O	2.25	0.53
1:e:682:THR:HG21	1:h:661:PRO:HD2	1.91	0.53
1:h:682:THR:HG21	1:i:661:PRO:HD2	1.91	0.53
1:j:418:GLU:OE2	1:j:647:LYS:N	2.42	0.53
1:l:487:LYS:NZ	1:l:580:THR:O	2.41	0.53
1:2:682:THR:HG21	1:3:661:PRO:HD2	1.91	0.53
1:3:351:PRO:HB3	1:4:430:GLN:NE2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:321:LYS:NZ	1:6:334:ASN:OD1	2.27	0.53
1:K:351:PRO:HB3	1:8:430:GLN:NE2	2.23	0.53
1:L:418:GLU:OE2	1:L:647:LYS:N	2.42	0.53
1:M:682:THR:HG21	1:N:661:PRO:HD2	1.91	0.53
1:O:418:GLU:OE2	1:O:647:LYS:N	2.42	0.53
1:O:430:GLN:NE2	1:m:351:PRO:HB3	2.23	0.53
1:O:487:LYS:NZ	1:O:580:THR:O	2.41	0.53
1:O:661:PRO:HD2	1:d:682:THR:HG21	1.91	0.53
1:P:418:GLU:OE2	1:P:647:LYS:N	2.42	0.53
1:R:429:SER:C	1:S:380:VAL:HG23	2.33	0.53
1:T:351:PRO:HB3	1:l:430:GLN:NE2	2.23	0.53
1:f:418:GLU:OE2	1:f:647:LYS:N	2.42	0.53
1:g:279:TRP:NE1	1:g:397:LEU:HB2	2.23	0.53
1:i:418:GLU:OE2	1:i:647:LYS:N	2.42	0.53
1:l:418:GLU:OE2	1:l:647:LYS:N	2.42	0.53
1:m:418:GLU:OE2	1:m:647:LYS:N	2.42	0.53
1:o:418:GLU:OE2	1:o:647:LYS:N	2.42	0.53
1:o:682:THR:HG21	1:7:661:PRO:HD2	1.91	0.53
1:p:487:LYS:NZ	1:p:580:THR:O	2.41	0.53
1:q:380:VAL:HG23	1:s:429:SER:C	2.33	0.53
1:x:418:GLU:OE2	1:x:647:LYS:N	2.42	0.53
1:z:418:GLU:OE2	1:z:647:LYS:N	2.42	0.53
1:7:542:SER:OG	1:7:579:ASP:OD2	2.26	0.53
1:H:418:GLU:OE2	1:H:647:LYS:N	2.42	0.53
1:I:279:TRP:NE1	1:I:397:LEU:HB2	2.23	0.53
1:K:430:GLN:NE2	1:a:351:PRO:HB3	2.23	0.53
1:N:418:GLU:OE2	1:N:647:LYS:N	2.42	0.53
1:N:429:SER:C	1:P:380:VAL:HG23	2.33	0.53
1:Q:682:THR:HG21	1:S:661:PRO:HD2	1.90	0.53
1:R:487:LYS:NZ	1:R:580:THR:O	2.41	0.53
1:U:418:GLU:OE2	1:U:647:LYS:N	2.42	0.53
1:V:487:LYS:NZ	1:V:580:THR:O	2.41	0.53
1:X:418:GLU:OE2	1:X:647:LYS:N	2.42	0.53
1:b:418:GLU:OE2	1:b:647:LYS:N	2.42	0.53
1:e:321:LYS:NZ	1:e:334:ASN:OD1	2.27	0.53
1:e:487:LYS:NZ	1:e:580:THR:O	2.41	0.53
1:i:429:SER:C	1:j:380:VAL:HG23	2.33	0.53
1:l:661:PRO:HD2	1:n:682:THR:HG21	1.91	0.53
1:p:661:PRO:HD2	1:6:682:THR:HG21	1.90	0.53
1:p:682:THR:HG21	1:q:661:PRO:HD2	1.90	0.53
1:q:279:TRP:NE1	1:q:397:LEU:HB2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:429:SER:C	1:r:380:VAL:HG23	2.33	0.53
1:q:487:LYS:NZ	1:q:580:THR:O	2.41	0.53
1:u:279:TRP:NE1	1:u:397:LEU:HB2	2.23	0.53
1:w:279:TRP:NE1	1:w:397:LEU:HB2	2.23	0.53
1:z:617:ASP:OD1	1:z:735:SER:OG	2.20	0.53
1:5:418:GLU:OE2	1:5:647:LYS:N	2.42	0.53
1:7:569:GLU:OE2	1:7:619:TYR:OH	2.20	0.53
1:B:262:ARG:NH1	1:C:723:ASN:OD1	2.42	0.53
1:C:279:TRP:NE1	1:C:397:LEU:HB2	2.23	0.53
1:E:429:SER:C	1:Q:380:VAL:HG23	2.32	0.53
1:I:418:GLU:OE2	1:I:647:LYS:N	2.42	0.53
1:L:383:GLY:H	1:L:519:ASN:ND2	2.07	0.53
1:M:279:TRP:NE1	1:M:397:LEU:HB2	2.23	0.53
1:P:617:ASP:OD1	1:P:735:SER:OG	2.20	0.53
1:R:262:ARG:NH1	1:V:723:ASN:OD1	2.42	0.53
1:R:279:TRP:NE1	1:R:397:LEU:HB2	2.23	0.53
1:V:661:PRO:HD2	1:W:682:THR:HG21	1.90	0.53
1:Y:682:THR:HG21	1:4:661:PRO:HD2	1.90	0.53
1:Z:430:GLN:NE2	1:4:351:PRO:HB3	2.23	0.53
1:Z:661:PRO:HD2	1:a:682:THR:HG21	1.91	0.53
1:h:279:TRP:NE1	1:h:397:LEU:HB2	2.23	0.53
1:p:723:ASN:OD1	1:q:262:ARG:NH1	2.42	0.53
1:s:418:GLU:OE2	1:s:647:LYS:N	2.42	0.53
1:u:418:GLU:OE2	1:u:647:LYS:N	2.42	0.53
1:v:682:THR:HG21	1:w:661:PRO:HD2	1.90	0.53
1:3:682:THR:HG21	1:8:661:PRO:HD2	1.91	0.53
1:8:418:GLU:OE2	1:8:647:LYS:N	2.42	0.53
1:B:661:PRO:HD2	1:C:682:THR:HG21	1.90	0.53
1:D:418:GLU:OE2	1:D:647:LYS:N	2.42	0.53
1:E:279:TRP:NE1	1:E:397:LEU:HB2	2.23	0.53
1:E:383:GLY:H	1:E:519:ASN:ND2	2.07	0.53
1:E:430:GLN:NE2	1:Q:351:PRO:HB3	2.23	0.53
1:O:380:VAL:HG23	1:n:429:SER:C	2.33	0.53
1:R:661:PRO:HD2	1:V:682:THR:HG21	1.90	0.53
1:Y:383:GLY:H	1:Y:519:ASN:ND2	2.07	0.53
1:Z:380:VAL:HG23	1:3:429:SER:C	2.33	0.53
1:Z:418:GLU:OE2	1:Z:647:LYS:N	2.42	0.53
1:a:418:GLU:OE2	1:a:647:LYS:N	2.42	0.53
1:b:617:ASP:OD1	1:b:735:SER:OG	2.20	0.53
1:d:429:SER:C	1:l:380:VAL:HG23	2.33	0.53
1:k:418:GLU:OE2	1:k:647:LYS:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:723:ASN:OD1	1:s:262:ARG:NH1	2.42	0.53
1:q:700:ARG:HD3	1:q:704:GLU:OE2	2.09	0.53
1:r:661:PRO:HD2	1:x:682:THR:HG21	1.90	0.53
1:u:429:SER:C	1:v:380:VAL:HG23	2.33	0.53
1:w:383:GLY:H	1:w:519:ASN:ND2	2.07	0.53
1:w:429:SER:C	1:x:380:VAL:HG23	2.32	0.53
1:y:617:ASP:OD1	1:y:735:SER:OG	2.20	0.53
1:z:383:GLY:H	1:z:519:ASN:ND2	2.07	0.53
1:3:418:GLU:OE2	1:3:647:LYS:N	2.42	0.53
1:5:321:LYS:NZ	1:5:334:ASN:OD1	2.27	0.53
1:7:383:GLY:H	1:7:519:ASN:ND2	2.07	0.53
1:K:383:GLY:H	1:K:519:ASN:ND2	2.07	0.53
1:K:661:PRO:HD2	1:7:682:THR:HG21	1.90	0.53
1:K:723:ASN:OD1	1:L:262:ARG:NH1	2.42	0.53
1:M:700:ARG:HD3	1:M:704:GLU:OE2	2.09	0.53
1:N:700:ARG:HD3	1:N:704:GLU:OE2	2.09	0.53
1:N:723:ASN:OD1	1:m:262:ARG:NH1	2.43	0.53
1:P:279:TRP:NE1	1:P:397:LEU:HB2	2.23	0.53
1:R:479:ASN:HD22	1:S:641:MET:H	1.57	0.53
1:R:700:ARG:HD3	1:R:704:GLU:OE2	2.09	0.53
1:S:279:TRP:NE1	1:S:397:LEU:HB2	2.23	0.53
1:T:262:ARG:NH1	1:i:723:ASN:OD1	2.43	0.53
1:T:279:TRP:NE1	1:T:397:LEU:HB2	2.23	0.53
1:V:279:TRP:NE1	1:V:397:LEU:HB2	2.23	0.53
1:Y:569:GLU:OE2	1:Y:619:TYR:OH	2.20	0.53
1:a:429:SER:C	1:8:380:VAL:HG23	2.33	0.53
1:h:700:ARG:HD3	1:h:704:GLU:OE2	2.10	0.53
1:i:700:ARG:HD3	1:i:704:GLU:OE2	2.09	0.53
1:r:279:TRP:NE1	1:r:397:LEU:HB2	2.23	0.53
1:w:430:GLN:NE2	1:x:351:PRO:HB3	2.23	0.53
1:4:383:GLY:H	1:4:519:ASN:ND2	2.07	0.53
1:5:279:TRP:NE1	1:5:397:LEU:HB2	2.23	0.53
1:5:661:PRO:HD2	1:8:682:THR:HG21	1.91	0.53
1:A:279:TRP:NE1	1:A:397:LEU:HB2	2.23	0.52
1:D:383:GLY:H	1:D:519:ASN:ND2	2.07	0.52
1:F:262:ARG:NH1	1:R:723:ASN:OD1	2.42	0.52
1:G:418:GLU:OE2	1:G:647:LYS:N	2.42	0.52
1:G:682:THR:HG21	1:W:661:PRO:HD2	1.90	0.52
1:H:279:TRP:NE1	1:H:397:LEU:HB2	2.23	0.52
1:J:430:GLN:NE2	1:L:351:PRO:HB3	2.23	0.52
1:L:617:ASP:OD1	1:L:735:SER:OG	2.20	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:418:GLU:OE2	1:d:647:LYS:N	2.42	0.52
1:k:383:GLY:H	1:k:519:ASN:ND2	2.07	0.52
1:p:279:TRP:NE1	1:p:397:LEU:HB2	2.23	0.52
1:q:479:ASN:HD22	1:r:641:MET:H	1.58	0.52
1:t:383:GLY:H	1:t:519:ASN:ND2	2.07	0.52
1:y:279:TRP:NE1	1:y:397:LEU:HB2	2.23	0.52
1:z:262:ARG:NH1	1:4:723:ASN:OD1	2.42	0.52
1:z:351:PRO:HB3	1:2:430:GLN:NE2	2.23	0.52
1:6:418:GLU:OE2	1:6:647:LYS:N	2.42	0.52
1:A:700:ARG:HD3	1:A:704:GLU:OE2	2.09	0.52
1:F:617:ASP:OD1	1:F:735:SER:OG	2.20	0.52
1:F:682:THR:HG21	1:G:661:PRO:HD2	1.90	0.52
1:H:661:PRO:HD2	1:Z:682:THR:HG21	1.91	0.52
1:J:700:ARG:HD3	1:J:704:GLU:OE2	2.09	0.52
1:O:700:ARG:HD3	1:O:704:GLU:OE2	2.09	0.52
1:Q:383:GLY:H	1:Q:519:ASN:ND2	2.07	0.52
1:R:380:VAL:HG23	1:U:429:SER:C	2.34	0.52
1:U:279:TRP:NE1	1:U:397:LEU:HB2	2.23	0.52
1:U:700:ARG:HD3	1:U:704:GLU:OE2	2.09	0.52
1:V:700:ARG:HD3	1:V:704:GLU:OE2	2.09	0.52
1:W:418:GLU:OE2	1:W:647:LYS:N	2.42	0.52
1:Z:700:ARG:HD3	1:Z:704:GLU:OE2	2.09	0.52
1:c:661:PRO:HD2	1:s:682:THR:HG21	1.90	0.52
1:f:617:ASP:OD1	1:f:735:SER:OG	2.20	0.52
1:j:279:TRP:NE1	1:j:397:LEU:HB2	2.23	0.52
1:l:700:ARG:HD3	1:l:704:GLU:OE2	2.09	0.52
1:m:279:TRP:NE1	1:m:397:LEU:HB2	2.23	0.52
1:n:418:GLU:OE2	1:n:647:LYS:N	2.42	0.52
1:p:700:ARG:HD3	1:p:704:GLU:OE2	2.09	0.52
1:q:723:ASN:OD1	1:y:262:ARG:NH1	2.43	0.52
1:s:279:TRP:NE1	1:s:397:LEU:HB2	2.23	0.52
1:s:700:ARG:HD3	1:s:704:GLU:OE2	2.09	0.52
1:t:418:GLU:OE2	1:t:647:LYS:N	2.42	0.52
1:t:723:ASN:OD1	1:6:262:ARG:NH1	2.43	0.52
1:x:429:SER:C	1:y:380:VAL:HG23	2.33	0.52
1:8:700:ARG:HD3	1:8:704:GLU:OE2	2.09	0.52
1:A:383:GLY:H	1:A:519:ASN:ND2	2.07	0.52
1:A:723:ASN:OD1	1:E:262:ARG:NH1	2.43	0.52
1:C:479:ASN:HD22	1:b:641:MET:H	1.58	0.52
1:F:279:TRP:NE1	1:F:397:LEU:HB2	2.23	0.52
1:G:383:GLY:H	1:G:519:ASN:ND2	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:723:ASN:OD1	1:W:262:ARG:NH1	2.43	0.52
1:J:479:ASN:HD22	1:L:641:MET:H	1.58	0.52
1:L:682:THR:HG21	1:b:661:PRO:HD2	1.90	0.52
1:L:700:ARG:HD3	1:L:704:GLU:OE2	2.09	0.52
1:N:682:THR:HG21	1:m:661:PRO:HD2	1.90	0.52
1:Q:700:ARG:HD3	1:Q:704:GLU:OE2	2.09	0.52
1:T:700:ARG:HD3	1:T:704:GLU:OE2	2.09	0.52
1:X:383:GLY:H	1:X:519:ASN:ND2	2.07	0.52
1:b:383:GLY:H	1:b:519:ASN:ND2	2.07	0.52
1:d:533:THR:CG2	1:d:569:GLU:H	2.23	0.52
1:f:383:GLY:H	1:f:519:ASN:ND2	2.07	0.52
1:g:682:THR:HG21	1:1:661:PRO:HD2	1.90	0.52
1:k:569:GLU:OE2	1:k:619:TYR:OH	2.20	0.52
1:m:700:ARG:HD3	1:m:704:GLU:OE2	2.09	0.52
1:o:383:GLY:H	1:o:519:ASN:ND2	2.07	0.52
1:t:682:THR:HG21	1:6:661:PRO:HD2	1.90	0.52
1:v:279:TRP:NE1	1:v:397:LEU:HB2	2.23	0.52
1:v:700:ARG:HD3	1:v:704:GLU:OE2	2.09	0.52
1:x:383:GLY:H	1:x:519:ASN:ND2	2.07	0.52
1:x:700:ARG:HD3	1:x:704:GLU:OE2	2.09	0.52
1:z:641:MET:H	1:2:479:ASN:HD22	1.58	0.52
1:1:700:ARG:HD3	1:1:704:GLU:OE2	2.09	0.52
1:2:700:ARG:HD3	1:2:704:GLU:OE2	2.09	0.52
1:E:641:MET:H	1:F:479:ASN:HD22	1.58	0.52
1:F:380:VAL:HG23	1:Q:429:SER:C	2.33	0.52
1:F:418:GLU:OE2	1:F:647:LYS:N	2.42	0.52
1:F:700:ARG:HD3	1:F:704:GLU:OE2	2.09	0.52
1:H:383:GLY:H	1:H:519:ASN:ND2	2.07	0.52
1:J:383:GLY:H	1:J:519:ASN:ND2	2.07	0.52
1:M:641:MET:H	1:b:479:ASN:HD22	1.58	0.52
1:N:533:THR:CG2	1:N:569:GLU:H	2.23	0.52
1:Q:723:ASN:OD1	1:S:262:ARG:NH1	2.43	0.52
1:R:418:GLU:OE2	1:R:647:LYS:N	2.42	0.52
1:U:383:GLY:H	1:U:519:ASN:ND2	2.07	0.52
1:V:641:MET:H	1:X:479:ASN:HD22	1.58	0.52
1:X:279:TRP:NE1	1:X:397:LEU:HB2	2.23	0.52
1:b:700:ARG:HD3	1:b:704:GLU:OE2	2.09	0.52
1:c:418:GLU:OE2	1:c:647:LYS:N	2.42	0.52
1:c:700:ARG:HD3	1:c:704:GLU:OE2	2.09	0.52
1:e:700:ARG:HD3	1:e:704:GLU:OE2	2.09	0.52
1:f:479:ASN:HD22	1:h:641:MET:H	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:641:MET:H	1:g:479:ASN:HD22	1.58	0.52
1:f:661:PRO:HD2	1:z:682:THR:HG21	1.90	0.52
1:f:700:ARG:HD3	1:f:704:GLU:OE2	2.09	0.52
1:g:700:ARG:HD3	1:g:704:GLU:OE2	2.09	0.52
1:n:383:GLY:H	1:n:519:ASN:ND2	2.07	0.52
1:n:533:THR:CG2	1:n:569:GLU:H	2.23	0.52
1:q:418:GLU:OE2	1:q:647:LYS:N	2.42	0.52
1:r:262:ARG:NH1	1:x:723:ASN:OD1	2.43	0.52
1:r:350:LEU:HD11	1:r:397:LEU:HD22	1.92	0.52
1:u:383:GLY:H	1:u:519:ASN:ND2	2.07	0.52
1:w:641:MET:H	1:y:479:ASN:HD22	1.58	0.52
1:y:700:ARG:HD3	1:y:704:GLU:OE2	2.09	0.52
1:z:700:ARG:HD3	1:z:704:GLU:OE2	2.10	0.52
1:6:383:GLY:H	1:6:519:ASN:ND2	2.07	0.52
1:B:350:LEU:HD11	1:B:397:LEU:HD22	1.92	0.52
1:B:700:ARG:HD3	1:B:704:GLU:OE2	2.09	0.52
1:C:262:ARG:NH1	1:D:723:ASN:OD1	2.42	0.52
1:C:700:ARG:HD3	1:C:704:GLU:OE2	2.09	0.52
1:D:350:LEU:HD11	1:D:397:LEU:HD22	1.92	0.52
1:H:700:ARG:HD3	1:H:704:GLU:OE2	2.09	0.52
1:I:383:GLY:H	1:I:519:ASN:ND2	2.07	0.52
1:K:262:ARG:NH1	1:7:723:ASN:OD1	2.43	0.52
1:L:533:THR:CG2	1:L:569:GLU:H	2.23	0.52
1:M:350:LEU:HD11	1:M:397:LEU:HD22	1.92	0.52
1:O:350:LEU:HD11	1:O:397:LEU:HD22	1.92	0.52
1:S:350:LEU:HD11	1:S:397:LEU:HD22	1.92	0.52
1:W:383:GLY:H	1:W:519:ASN:ND2	2.07	0.52
1:a:383:GLY:H	1:a:519:ASN:ND2	2.07	0.52
1:d:383:GLY:H	1:d:519:ASN:ND2	2.07	0.52
1:g:262:ARG:NH1	1:k:723:ASN:OD1	2.42	0.52
1:h:350:LEU:HD11	1:h:397:LEU:HD22	1.92	0.52
1:i:533:THR:CG2	1:i:569:GLU:H	2.23	0.52
1:i:569:GLU:OE2	1:i:619:TYR:OH	2.20	0.52
1:k:350:LEU:HD11	1:k:397:LEU:HD22	1.92	0.52
1:k:661:PRO:HD2	1:w:682:THR:HG21	1.90	0.52
1:l:350:LEU:HD11	1:l:397:LEU:HD22	1.92	0.52
1:o:279:TRP:NE1	1:o:397:LEU:HB2	2.23	0.52
1:o:479:ASN:HD22	1:p:641:MET:H	1.58	0.52
1:o:700:ARG:HD3	1:o:704:GLU:OE2	2.09	0.52
1:s:383:GLY:H	1:s:519:ASN:ND2	2.07	0.52
1:t:661:PRO:HD2	1:y:682:THR:HG21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:723:ASN:OD1	1:2:262:ARG:NH1	2.43	0.52
1:v:383:GLY:H	1:v:519:ASN:ND2	2.07	0.52
1:w:569:GLU:OE2	1:w:619:TYR:OH	2.20	0.52
1:y:418:GLU:OE2	1:y:647:LYS:N	2.42	0.52
1:z:533:THR:CG2	1:z:569:GLU:H	2.23	0.52
1:1:350:LEU:HD11	1:1:397:LEU:HD22	1.92	0.52
1:3:383:GLY:H	1:3:519:ASN:ND2	2.07	0.52
1:5:383:GLY:H	1:5:519:ASN:ND2	2.07	0.52
1:5:700:ARG:HD3	1:5:704:GLU:OE2	2.09	0.52
1:A:418:GLU:OE2	1:A:647:LYS:N	2.42	0.52
1:D:641:MET:H	1:P:479:ASN:HD22	1.58	0.52
1:D:661:PRO:HD2	1:E:682:THR:HG21	1.90	0.52
1:F:350:LEU:HD11	1:F:397:LEU:HD22	1.92	0.52
1:F:383:GLY:H	1:F:519:ASN:ND2	2.07	0.52
1:F:533:THR:CG2	1:F:569:GLU:H	2.23	0.52
1:H:723:ASN:OD1	1:I:262:ARG:NH1	2.43	0.52
1:I:350:LEU:HD11	1:I:397:LEU:HD22	1.92	0.52
1:M:533:THR:CG2	1:M:569:GLU:H	2.23	0.52
1:R:503:ALA:HB2	1:U:449:SER:HB3	1.92	0.52
1:T:533:THR:CG2	1:T:569:GLU:H	2.23	0.52
1:T:661:PRO:HD2	1:i:682:THR:HG21	1.90	0.52
1:V:350:LEU:HD11	1:V:397:LEU:HD22	1.92	0.52
1:V:479:ASN:HD22	1:e:641:MET:H	1.58	0.52
1:X:700:ARG:HD3	1:X:704:GLU:OE2	2.09	0.52
1:Y:723:ASN:OD1	1:4:262:ARG:NH1	2.43	0.52
1:e:418:GLU:OE2	1:e:647:LYS:N	2.42	0.52
1:g:533:THR:CG2	1:g:569:GLU:H	2.23	0.52
1:g:641:MET:H	1:h:479:ASN:HD22	1.58	0.52
1:h:383:GLY:H	1:h:519:ASN:ND2	2.07	0.52
1:h:533:THR:CG2	1:h:569:GLU:H	2.23	0.52
1:j:700:ARG:HD3	1:j:704:GLU:OE2	2.09	0.52
1:m:533:THR:CG2	1:m:569:GLU:H	2.23	0.52
1:p:350:LEU:HD11	1:p:397:LEU:HD22	1.92	0.52
1:t:641:MET:H	1:v:479:ASN:HD22	1.58	0.52
1:u:262:ARG:NH1	1:5:723:ASN:OD1	2.43	0.52
1:u:350:LEU:HD11	1:u:397:LEU:HD22	1.92	0.52
1:v:723:ASN:OD1	1:w:262:ARG:NH1	2.43	0.52
1:y:350:LEU:HD11	1:y:397:LEU:HD22	1.92	0.52
1:y:383:GLY:H	1:y:519:ASN:ND2	2.07	0.52
1:y:533:THR:CG2	1:y:569:GLU:H	2.23	0.52
1:2:383:GLY:H	1:2:519:ASN:ND2	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:533:THR:CG2	1:6:569:GLU:H	2.23	0.52
1:6:700:ARG:HD3	1:6:704:GLU:OE2	2.09	0.52
1:A:479:ASN:HD22	1:G:641:MET:H	1.58	0.52
1:C:533:THR:CG2	1:C:569:GLU:H	2.23	0.52
1:C:641:MET:H	1:M:479:ASN:HD22	1.58	0.52
1:D:569:GLU:OE2	1:D:619:TYR:OH	2.20	0.52
1:E:418:GLU:OE2	1:E:647:LYS:N	2.42	0.52
1:I:723:ASN:OD1	1:J:262:ARG:NH1	2.43	0.52
1:L:350:LEU:HD11	1:L:397:LEU:HD22	1.92	0.52
1:L:723:ASN:OD1	1:b:262:ARG:NH1	2.43	0.52
1:M:383:GLY:H	1:M:519:ASN:ND2	2.07	0.52
1:P:700:ARG:HD3	1:P:704:GLU:OE2	2.09	0.52
1:S:723:ASN:OD1	1:d:262:ARG:NH1	2.43	0.52
1:V:262:ARG:NH1	1:W:723:ASN:OD1	2.42	0.52
1:W:533:THR:CG2	1:W:569:GLU:H	2.23	0.52
1:W:700:ARG:HD3	1:W:704:GLU:OE2	2.09	0.52
1:Z:383:GLY:H	1:Z:519:ASN:ND2	2.07	0.52
1:b:350:LEU:HD11	1:b:397:LEU:HD22	1.92	0.52
1:e:383:GLY:H	1:e:519:ASN:ND2	2.07	0.52
1:j:479:ASN:HD22	1:k:641:MET:H	1.58	0.52
1:j:533:THR:CG2	1:j:569:GLU:H	2.23	0.52
1:n:262:ARG:NH1	1:r:723:ASN:OD1	2.43	0.52
1:p:262:ARG:NH1	1:6:723:ASN:OD1	2.42	0.52
1:v:418:GLU:OE2	1:v:647:LYS:N	2.42	0.52
1:v:661:PRO:HD2	1:1:682:THR:HG21	1.91	0.52
1:w:418:GLU:OE2	1:w:647:LYS:N	2.42	0.52
1:x:533:THR:CG2	1:x:569:GLU:H	2.23	0.52
1:8:383:GLY:H	1:8:519:ASN:ND2	2.07	0.52
1:E:569:GLU:OE2	1:E:619:TYR:OH	2.20	0.52
1:J:533:THR:CG2	1:J:569:GLU:H	2.23	0.52
1:P:533:THR:CG2	1:P:569:GLU:H	2.23	0.52
1:P:542:SER:OG	1:P:579:ASP:OD2	2.26	0.52
1:Q:533:THR:CG2	1:Q:569:GLU:H	2.23	0.52
1:Z:641:MET:H	1:3:479:ASN:HD22	1.58	0.52
1:a:479:ASN:HD22	1:8:641:MET:H	1.58	0.52
1:c:533:THR:CG2	1:c:569:GLU:H	2.23	0.52
1:c:641:MET:H	1:p:479:ASN:HD22	1.58	0.52
1:f:262:ARG:NH1	1:z:723:ASN:OD1	2.43	0.52
1:f:350:LEU:HD11	1:f:397:LEU:HD22	1.92	0.52
1:g:418:GLU:OE2	1:g:647:LYS:N	2.42	0.52
1:g:569:GLU:OE2	1:g:619:TYR:OH	2.20	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:617:ASP:OD1	1:g:735:SER:OG	2.20	0.52
1:h:723:ASN:OD1	1:i:262:ARG:NH1	2.43	0.52
1:t:479:ASN:HD22	1:u:641:MET:H	1.58	0.52
1:w:479:ASN:HD22	1:x:641:MET:H	1.58	0.52
1:6:569:GLU:OE2	1:6:619:TYR:OH	2.20	0.52
1:B:533:THR:CG2	1:B:569:GLU:H	2.23	0.52
1:C:383:GLY:H	1:C:519:ASN:ND2	2.07	0.52
1:C:617:ASP:OD1	1:C:735:SER:OG	2.20	0.52
1:D:262:ARG:NH1	1:E:723:ASN:OD1	2.43	0.52
1:D:700:ARG:HD3	1:D:704:GLU:OE2	2.09	0.52
1:E:479:ASN:HD22	1:Q:641:MET:H	1.58	0.52
1:E:533:THR:CG2	1:E:569:GLU:H	2.23	0.52
1:H:350:LEU:HD11	1:H:397:LEU:HD22	1.92	0.52
1:H:533:THR:CG2	1:H:569:GLU:H	2.23	0.52
1:J:350:LEU:HD11	1:J:397:LEU:HD22	1.92	0.52
1:M:723:ASN:OD1	1:N:262:ARG:NH1	2.43	0.52
1:P:723:ASN:OD1	1:Q:262:ARG:NH1	2.43	0.52
1:T:383:GLY:H	1:T:519:ASN:ND2	2.07	0.52
1:U:350:LEU:HD11	1:U:397:LEU:HD22	1.92	0.52
1:U:533:THR:CG2	1:U:569:GLU:H	2.23	0.52
1:c:262:ARG:NH1	1:s:723:ASN:OD1	2.43	0.52
1:c:383:GLY:H	1:c:519:ASN:ND2	2.07	0.52
1:d:479:ASN:HD22	1:l:641:MET:H	1.58	0.52
1:e:533:THR:CG2	1:e:569:GLU:H	2.23	0.52
1:g:723:ASN:OD1	1:1:262:ARG:NH1	2.43	0.52
1:k:262:ARG:NH1	1:w:723:ASN:OD1	2.43	0.52
1:r:700:ARG:HD3	1:r:704:GLU:OE2	2.09	0.52
1:x:350:LEU:HD11	1:x:397:LEU:HD22	1.92	0.52
1:z:350:LEU:HD11	1:z:397:LEU:HD22	1.92	0.52
1:1:383:GLY:H	1:1:519:ASN:ND2	2.07	0.52
1:2:350:LEU:HD11	1:2:397:LEU:HD22	1.92	0.52
1:2:533:THR:CG2	1:2:569:GLU:H	2.23	0.52
1:5:350:LEU:HD11	1:5:397:LEU:HD22	1.92	0.52
1:A:533:THR:CG2	1:A:569:GLU:H	2.23	0.52
1:C:418:GLU:OE2	1:C:647:LYS:N	2.42	0.52
1:D:617:ASP:OD1	1:D:735:SER:OG	2.20	0.52
1:G:479:ASN:HD22	1:I:641:MET:H	1.58	0.52
1:N:383:GLY:H	1:N:519:ASN:ND2	2.07	0.52
1:O:641:MET:H	1:n:479:ASN:HD22	1.58	0.52
1:O:723:ASN:OD1	1:P:262:ARG:NH1	2.43	0.52
1:Q:350:LEU:HD11	1:Q:397:LEU:HD22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:383:GLY:H	1:j:519:ASN:ND2	2.07	0.52
1:j:723:ASN:OD1	1:x:262:ARG:NH1	2.43	0.52
1:l:262:ARG:NH1	1:n:723:ASN:OD1	2.43	0.52
1:l:542:SER:OG	1:l:579:ASP:OD2	2.26	0.52
1:m:479:ASN:HD22	1:n:641:MET:H	1.58	0.52
1:w:533:THR:CG2	1:w:569:GLU:H	2.23	0.52
1:1:533:THR:CG2	1:1:569:GLU:H	2.23	0.52
1:2:418:GLU:OE2	1:2:647:LYS:N	2.42	0.52
1:5:533:THR:CG2	1:5:569:GLU:H	2.23	0.52
1:A:262:ARG:NH1	1:B:723:ASN:OD1	2.42	0.51
1:B:740:HIS:CD2	1:J:630:HIS:CD2	2.98	0.51
1:G:350:LEU:HD11	1:G:397:LEU:HD22	1.92	0.51
1:J:418:GLU:OE2	1:J:647:LYS:N	2.42	0.51
1:J:723:ASN:OD1	1:a:262:ARG:NH1	2.43	0.51
1:O:262:ARG:NH1	1:d:723:ASN:OD1	2.43	0.51
1:P:383:GLY:H	1:P:519:ASN:ND2	2.07	0.51
1:S:700:ARG:HD3	1:S:704:GLU:OE2	2.09	0.51
1:T:479:ASN:HD22	1:d:641:MET:H	1.58	0.51
1:V:321:LYS:NZ	1:V:334:ASN:OD1	2.27	0.51
1:X:533:THR:CG2	1:X:569:GLU:H	2.23	0.51
1:Z:321:LYS:NZ	1:Z:334:ASN:OD1	2.27	0.51
1:g:383:GLY:H	1:g:519:ASN:ND2	2.07	0.51
1:i:383:GLY:H	1:i:519:ASN:ND2	2.07	0.51
1:j:262:ARG:NH1	1:l:723:ASN:OD1	2.43	0.51
1:k:700:ARG:HD3	1:k:704:GLU:OE2	2.09	0.51
1:m:383:GLY:H	1:m:519:ASN:ND2	2.07	0.51
1:s:350:LEU:HD11	1:s:397:LEU:HD22	1.92	0.51
1:s:533:THR:CG2	1:s:569:GLU:H	2.23	0.51
1:v:533:THR:CG2	1:v:569:GLU:H	2.23	0.51
1:v:617:ASP:OD1	1:v:735:SER:OG	2.20	0.51
1:z:479:ASN:HD22	1:1:641:MET:H	1.57	0.51
1:z:630:HIS:CD2	1:2:740:HIS:CD2	2.98	0.51
1:2:723:ASN:OD1	1:3:262:ARG:NH1	2.43	0.51
1:4:533:THR:CG2	1:4:569:GLU:H	2.23	0.51
1:6:617:ASP:OD1	1:6:735:SER:OG	2.20	0.51
1:7:350:LEU:HD11	1:7:397:LEU:HD22	1.92	0.51
1:7:700:ARG:HD3	1:7:704:GLU:OE2	2.09	0.51
1:B:383:GLY:H	1:B:519:ASN:ND2	2.07	0.51
1:B:569:GLU:OE2	1:B:619:TYR:OH	2.20	0.51
1:H:479:ASN:HD22	1:W:641:MET:H	1.58	0.51
1:H:641:MET:H	1:Y:479:ASN:HD22	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:418:GLU:OE2	1:K:647:LYS:N	2.42	0.51
1:K:533:THR:CG2	1:K:569:GLU:H	2.23	0.51
1:N:740:HIS:CD2	1:P:630:HIS:CD2	2.99	0.51
1:R:533:THR:CG2	1:R:569:GLU:H	2.23	0.51
1:W:569:GLU:OE2	1:W:619:TYR:OH	2.20	0.51
1:Y:350:LEU:HD11	1:Y:397:LEU:HD22	1.92	0.51
1:Y:700:ARG:HD3	1:Y:704:GLU:OE2	2.09	0.51
1:a:700:ARG:HD3	1:a:704:GLU:OE2	2.09	0.51
1:c:350:LEU:HD11	1:c:397:LEU:HD22	1.92	0.51
1:i:740:HIS:CD2	1:j:630:HIS:CD2	2.99	0.51
1:l:383:GLY:H	1:l:519:ASN:ND2	2.07	0.51
1:l:533:THR:CG2	1:l:569:GLU:H	2.23	0.51
1:n:700:ARG:HD3	1:n:704:GLU:OE2	2.09	0.51
1:o:533:THR:CG2	1:o:569:GLU:H	2.23	0.51
1:r:348:TYR:OH	1:r:649:PRO:O	2.25	0.51
1:u:740:HIS:CD2	1:v:630:HIS:CD2	2.99	0.51
1:4:350:LEU:HD11	1:4:397:LEU:HD22	1.92	0.51
1:4:418:GLU:OE2	1:4:647:LYS:N	2.42	0.51
1:5:262:ARG:NH1	1:8:723:ASN:OD1	2.43	0.51
1:7:533:THR:CG2	1:7:569:GLU:H	2.23	0.51
1:8:321:LYS:NZ	1:8:334:ASN:OD1	2.27	0.51
1:A:630:HIS:CD2	1:I:740:HIS:CD2	2.99	0.51
1:B:641:MET:H	1:L:479:ASN:HD22	1.58	0.51
1:C:740:HIS:CD2	1:b:630:HIS:CD2	2.99	0.51
1:F:641:MET:H	1:Q:479:ASN:HD22	1.58	0.51
1:H:262:ARG:NH1	1:Z:723:ASN:OD1	2.43	0.51
1:I:700:ARG:HD3	1:I:704:GLU:OE2	2.09	0.51
1:J:740:HIS:CD2	1:L:630:HIS:CD2	2.99	0.51
1:K:321:LYS:NZ	1:K:334:ASN:OD1	2.27	0.51
1:K:350:LEU:HD11	1:K:397:LEU:HD22	1.92	0.51
1:O:383:GLY:H	1:O:519:ASN:ND2	2.07	0.51
1:O:533:THR:CG2	1:O:569:GLU:H	2.23	0.51
1:O:630:HIS:CD2	1:n:740:HIS:CD2	2.99	0.51
1:O:740:HIS:CD2	1:m:630:HIS:CD2	2.99	0.51
1:P:350:LEU:HD11	1:P:397:LEU:HD22	1.92	0.51
1:T:630:HIS:CD2	1:l:740:HIS:CD2	2.99	0.51
1:T:723:ASN:OD1	1:U:262:ARG:NH1	2.44	0.51
1:W:617:ASP:OD1	1:W:735:SER:OG	2.20	0.51
1:X:503:ALA:HB2	1:e:449:SER:HB3	1.93	0.51
1:Y:533:THR:CG2	1:Y:569:GLU:H	2.23	0.51
1:c:449:SER:HB3	1:o:503:ALA:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:617:ASP:OD1	1:d:735:SER:OG	2.20	0.51
1:d:740:HIS:CD2	1:l:630:HIS:CD2	2.99	0.51
1:e:350:LEU:HD11	1:e:397:LEU:HD22	1.92	0.51
1:f:630:HIS:CD2	1:g:740:HIS:CD2	2.99	0.51
1:i:449:SER:HB3	1:j:503:ALA:HB2	1.93	0.51
1:t:350:LEU:HD11	1:t:397:LEU:HD22	1.92	0.51
1:x:479:ASN:HD22	1:y:641:MET:H	1.58	0.51
1:1:740:HIS:CD2	1:2:630:HIS:CD2	2.99	0.51
1:5:479:ASN:HD22	1:6:641:MET:H	1.58	0.51
1:5:641:MET:H	1:7:479:ASN:HD22	1.58	0.51
1:A:617:ASP:OD1	1:A:735:SER:OG	2.20	0.51
1:B:479:ASN:HD22	1:J:641:MET:H	1.57	0.51
1:C:630:HIS:CD2	1:M:740:HIS:CD2	2.99	0.51
1:D:479:ASN:HD22	1:N:641:MET:H	1.58	0.51
1:E:321:LYS:NZ	1:E:334:ASN:OD1	2.27	0.51
1:I:533:THR:CG2	1:I:569:GLU:H	2.23	0.51
1:N:449:SER:HB3	1:P:503:ALA:HB2	1.93	0.51
1:S:449:SER:HB3	1:U:503:ALA:HB2	1.93	0.51
1:U:682:THR:HG21	1:e:661:PRO:HD2	1.91	0.51
1:V:533:THR:CG2	1:V:569:GLU:H	2.23	0.51
1:Z:503:ALA:HB2	1:3:449:SER:HB3	1.93	0.51
1:a:350:LEU:HD11	1:a:397:LEU:HD22	1.92	0.51
1:c:630:HIS:CD2	1:p:740:HIS:CD2	2.99	0.51
1:d:700:ARG:HD3	1:d:704:GLU:OE2	2.09	0.51
1:g:503:ALA:HB2	1:h:449:SER:HB3	1.93	0.51
1:g:630:HIS:CD2	1:h:740:HIS:CD2	2.99	0.51
1:h:418:GLU:OE2	1:h:647:LYS:N	2.42	0.51
1:j:350:LEU:HD11	1:j:397:LEU:HD22	1.92	0.51
1:l:348:TYR:OH	1:l:649:PRO:O	2.25	0.51
1:n:617:ASP:OD1	1:n:735:SER:OG	2.20	0.51
1:p:383:GLY:H	1:p:519:ASN:ND2	2.07	0.51
1:q:533:THR:CG2	1:q:569:GLU:H	2.23	0.51
1:t:700:ARG:HD3	1:t:704:GLU:OE2	2.09	0.51
1:u:533:THR:CG2	1:u:569:GLU:H	2.23	0.51
1:y:348:TYR:OH	1:y:649:PRO:O	2.25	0.51
1:3:350:LEU:HD11	1:3:397:LEU:HD22	1.92	0.51
1:3:700:ARG:HD3	1:3:704:GLU:OE2	2.09	0.51
1:4:321:LYS:NZ	1:4:334:ASN:OD1	2.27	0.51
1:B:630:HIS:CD2	1:L:740:HIS:CD2	2.98	0.51
1:C:503:ALA:HB2	1:M:449:SER:HB3	1.93	0.51
1:E:700:ARG:HD3	1:E:704:GLU:OE2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:630:HIS:CD2	1:Y:740:HIS:CD2	2.99	0.51
1:K:700:ARG:HD3	1:K:704:GLU:OE2	2.09	0.51
1:O:348:TYR:OH	1:O:649:PRO:O	2.25	0.51
1:R:350:LEU:HD11	1:R:397:LEU:HD22	1.92	0.51
1:R:383:GLY:H	1:R:519:ASN:ND2	2.07	0.51
1:S:348:TYR:OH	1:S:649:PRO:O	2.25	0.51
1:S:533:THR:CG2	1:S:569:GLU:H	2.23	0.51
1:T:740:HIS:CD2	1:d:630:HIS:CD2	2.98	0.51
1:V:383:GLY:H	1:V:519:ASN:ND2	2.07	0.51
1:V:630:HIS:CD2	1:X:740:HIS:CD2	2.99	0.51
1:V:740:HIS:CD2	1:e:630:HIS:CD2	2.99	0.51
1:W:740:HIS:CD2	1:Y:630:HIS:CD2	2.98	0.51
1:X:350:LEU:HD11	1:X:397:LEU:HD22	1.92	0.51
1:a:449:SER:HB3	1:8:503:ALA:HB2	1.93	0.51
1:i:641:MET:H	1:k:479:ASN:HD22	1.58	0.51
1:k:617:ASP:OD1	1:k:735:SER:OG	2.20	0.51
1:o:350:LEU:HD11	1:o:397:LEU:HD22	1.92	0.51
1:p:533:THR:CG2	1:p:569:GLU:H	2.23	0.51
1:q:383:GLY:H	1:q:519:ASN:ND2	2.07	0.51
1:t:262:ARG:NH1	1:y:723:ASN:OD1	2.43	0.51
1:t:630:HIS:CD2	1:v:740:HIS:CD2	2.99	0.51
1:u:700:ARG:HD3	1:u:704:GLU:OE2	2.09	0.51
1:3:723:ASN:OD1	1:8:262:ARG:NH1	2.43	0.51
1:4:542:SER:OG	1:4:579:ASP:OD2	2.26	0.51
1:5:630:HIS:CD2	1:7:740:HIS:CD2	2.99	0.51
1:A:350:LEU:HD11	1:A:397:LEU:HD22	1.92	0.51
1:A:740:HIS:CD2	1:G:630:HIS:CD2	2.99	0.51
1:D:533:THR:CG2	1:D:569:GLU:H	2.23	0.51
1:E:617:ASP:OD1	1:E:735:SER:OG	2.20	0.51
1:F:723:ASN:OD1	1:G:262:ARG:NH1	2.43	0.51
1:G:700:ARG:HD3	1:G:704:GLU:OE2	2.09	0.51
1:M:418:GLU:OE2	1:M:647:LYS:N	2.42	0.51
1:O:479:ASN:HD22	1:m:641:MET:H	1.58	0.51
1:R:740:HIS:CD2	1:S:630:HIS:CD2	2.98	0.51
1:S:479:ASN:HD22	1:U:641:MET:H	1.58	0.51
1:T:449:SER:HB3	1:d:503:ALA:HB2	1.93	0.51
1:a:533:THR:CG2	1:a:569:GLU:H	2.23	0.51
1:b:533:THR:CG2	1:b:569:GLU:H	2.23	0.51
1:f:533:THR:CG2	1:f:569:GLU:H	2.23	0.51
1:m:449:SER:HB3	1:n:503:ALA:HB2	1.93	0.51
1:m:740:HIS:CD2	1:n:630:HIS:CD2	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:740:HIS:CD2	1:p:630:HIS:CD2	2.99	0.51
1:p:321:LYS:NZ	1:p:334:ASN:OD1	2.27	0.51
1:q:630:HIS:CD2	1:s:740:HIS:CD2	2.98	0.51
1:r:479:ASN:HD22	1:s:641:MET:H	1.58	0.51
1:r:533:THR:CG2	1:r:569:GLU:H	2.23	0.51
1:u:348:TYR:OH	1:u:649:PRO:O	2.25	0.51
1:w:617:ASP:OD1	1:w:735:SER:OG	2.20	0.51
1:w:700:ARG:HD3	1:w:704:GLU:OE2	2.09	0.51
1:3:533:THR:CG2	1:3:569:GLU:H	2.23	0.51
1:3:630:HIS:CD2	1:4:740:HIS:CD2	2.98	0.51
1:4:700:ARG:HD3	1:4:704:GLU:OE2	2.09	0.51
1:6:740:HIS:CD2	1:7:630:HIS:CD2	2.98	0.51
1:8:533:THR:CG2	1:8:569:GLU:H	2.23	0.51
1:A:641:MET:H	1:I:479:ASN:HD22	1.58	0.51
1:D:321:LYS:NZ	1:D:334:ASN:OD1	2.27	0.51
1:D:503:ALA:HB2	1:P:449:SER:HB3	1.93	0.51
1:F:348:TYR:OH	1:F:649:PRO:O	2.25	0.51
1:F:630:HIS:CD2	1:Q:740:HIS:CD2	2.99	0.51
1:H:740:HIS:CD2	1:W:630:HIS:CD2	2.99	0.51
1:K:542:SER:OG	1:K:579:ASP:OD2	2.26	0.51
1:K:740:HIS:CD2	1:a:630:HIS:CD2	2.98	0.51
1:S:383:GLY:H	1:S:519:ASN:ND2	2.07	0.51
1:T:641:MET:H	1:l:479:ASN:HD22	1.58	0.51
1:X:630:HIS:CD2	1:e:740:HIS:CD2	2.99	0.51
1:Z:262:ARG:NH1	1:a:723:ASN:OD1	2.43	0.51
1:Z:350:LEU:HD11	1:Z:397:LEU:HD22	1.92	0.51
1:Z:533:THR:CG2	1:Z:569:GLU:H	2.23	0.51
1:m:350:LEU:HD11	1:m:397:LEU:HD22	1.92	0.51
1:o:723:ASN:OD1	1:7:262:ARG:NH1	2.43	0.51
1:q:350:LEU:HD11	1:q:397:LEU:HD22	1.92	0.51
1:q:503:ALA:HB2	1:s:449:SER:HB3	1.93	0.51
1:q:740:HIS:CD2	1:r:630:HIS:CD2	2.98	0.51
1:v:350:LEU:HD11	1:v:397:LEU:HD22	1.92	0.51
1:x:449:SER:HB3	1:y:503:ALA:HB2	1.93	0.51
1:5:740:HIS:CD2	1:6:630:HIS:CD2	2.99	0.51
1:D:542:SER:OG	1:D:579:ASP:OD2	2.26	0.51
1:D:740:HIS:CD2	1:N:630:HIS:CD2	2.98	0.51
1:F:503:ALA:HB2	1:Q:449:SER:HB3	1.93	0.51
1:G:533:THR:CG2	1:G:569:GLU:H	2.23	0.51
1:J:308:PRO:HB2	1:J:417:PHE:CE2	2.46	0.51
1:K:641:MET:H	1:8:479:ASN:HD22	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:350:LEU:HD11	1:T:397:LEU:HD22	1.92	0.51
1:U:723:ASN:OD1	1:e:262:ARG:NH1	2.44	0.51
1:V:503:ALA:HB2	1:X:449:SER:HB3	1.93	0.51
1:X:641:MET:H	1:e:479:ASN:HD22	1.58	0.51
1:c:740:HIS:CD2	1:o:630:HIS:CD2	2.99	0.51
1:j:449:SER:HB3	1:k:503:ALA:HB2	1.93	0.51
1:k:533:THR:CG2	1:k:569:GLU:H	2.23	0.51
1:k:542:SER:OG	1:k:579:ASP:OD2	2.26	0.51
1:o:449:SER:HB3	1:p:503:ALA:HB2	1.93	0.51
1:t:533:THR:CG2	1:t:569:GLU:H	2.23	0.51
1:u:479:ASN:HD22	1:v:641:MET:H	1.58	0.51
1:w:321:LYS:NZ	1:w:334:ASN:OD1	2.27	0.51
1:w:740:HIS:CD2	1:x:630:HIS:CD2	2.99	0.51
1:x:740:HIS:CD2	1:y:630:HIS:CD2	2.99	0.51
1:8:350:LEU:HD11	1:8:397:LEU:HD22	1.92	0.51
1:E:449:SER:HB3	1:Q:503:ALA:HB2	1.93	0.51
1:E:740:HIS:CD2	1:Q:630:HIS:CD2	2.99	0.51
1:G:740:HIS:CD2	1:I:630:HIS:CD2	2.99	0.51
1:I:308:PRO:HB2	1:I:417:PHE:CE2	2.46	0.51
1:K:308:PRO:HB2	1:K:417:PHE:CE2	2.46	0.51
1:N:308:PRO:HB2	1:N:417:PHE:CE2	2.46	0.51
1:O:308:PRO:HB2	1:O:417:PHE:CE2	2.46	0.51
1:X:262:ARG:NH1	1:f:723:ASN:OD1	2.43	0.51
1:X:723:ASN:OD1	1:Y:262:ARG:NH1	2.43	0.51
1:Z:479:ASN:HD22	1:4:641:MET:H	1.58	0.51
1:c:479:ASN:HD22	1:o:641:MET:H	1.58	0.51
1:i:308:PRO:HB2	1:i:417:PHE:CE2	2.46	0.51
1:i:630:HIS:CD2	1:k:740:HIS:CD2	2.98	0.51
1:l:308:PRO:HB2	1:l:417:PHE:CE2	2.46	0.51
1:m:617:ASP:OD1	1:m:735:SER:OG	2.20	0.51
1:r:383:GLY:H	1:r:519:ASN:ND2	2.07	0.51
1:r:740:HIS:CD2	1:s:630:HIS:CD2	2.98	0.51
1:u:308:PRO:HB2	1:u:417:PHE:CE2	2.46	0.51
1:w:449:SER:HB3	1:x:503:ALA:HB2	1.93	0.51
1:2:308:PRO:HB2	1:2:417:PHE:CE2	2.46	0.51
1:4:308:PRO:HB2	1:4:417:PHE:CE2	2.46	0.51
1:6:350:LEU:HD11	1:6:397:LEU:HD22	1.92	0.51
1:B:321:LYS:NZ	1:B:334:ASN:OD1	2.27	0.51
1:E:503:ALA:HB2	1:F:449:SER:HB3	1.93	0.51
1:I:348:TYR:OH	1:I:649:PRO:O	2.25	0.51
1:J:449:SER:HB3	1:L:503:ALA:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:262:ARG:NH1	1:c:723:ASN:OD1	2.43	0.51
1:R:630:HIS:CD2	1:U:740:HIS:CD2	2.99	0.51
1:b:723:ASN:OD1	1:o:262:ARG:NH1	2.43	0.51
1:e:308:PRO:HB2	1:e:417:PHE:CE2	2.46	0.51
1:q:449:SER:HB3	1:r:503:ALA:HB2	1.93	0.51
1:r:449:SER:HB3	1:s:503:ALA:HB2	1.93	0.51
1:t:740:HIS:CD2	1:u:630:HIS:CD2	2.99	0.51
1:w:350:LEU:HD11	1:w:397:LEU:HD22	1.92	0.51
1:z:503:ALA:HB2	1:2:449:SER:HB3	1.93	0.51
1:z:740:HIS:CD2	1:1:630:HIS:CD2	2.99	0.51
1:B:308:PRO:HB2	1:B:417:PHE:CE2	2.46	0.50
1:B:503:ALA:HB2	1:L:449:SER:HB3	1.93	0.50
1:D:308:PRO:HB2	1:D:417:PHE:CE2	2.46	0.50
1:E:350:LEU:HD11	1:E:397:LEU:HD22	1.92	0.50
1:H:308:PRO:HB2	1:H:417:PHE:CE2	2.46	0.50
1:N:479:ASN:HD22	1:P:641:MET:H	1.58	0.50
1:P:308:PRO:HB2	1:P:417:PHE:CE2	2.46	0.50
1:W:350:LEU:HD11	1:W:397:LEU:HD22	1.92	0.50
1:Z:449:SER:HB3	1:4:503:ALA:HB2	1.93	0.50
1:c:308:PRO:HB2	1:c:417:PHE:CE2	2.46	0.50
1:e:723:ASN:OD1	1:h:262:ARG:NH1	2.43	0.50
1:f:321:LYS:NZ	1:f:334:ASN:OD1	2.27	0.50
1:j:308:PRO:HB2	1:j:417:PHE:CE2	2.46	0.50
1:j:740:HIS:CD2	1:k:630:HIS:CD2	2.99	0.50
1:k:308:PRO:HB2	1:k:417:PHE:CE2	2.46	0.50
1:s:308:PRO:HB2	1:s:417:PHE:CE2	2.46	0.50
1:1:308:PRO:HB2	1:1:417:PHE:CE2	2.46	0.50
1:1:479:ASN:HD22	1:2:641:MET:H	1.58	0.50
1:5:308:PRO:HB2	1:5:417:PHE:CE2	2.46	0.50
1:A:321:LYS:NZ	1:A:334:ASN:OD1	2.27	0.50
1:D:630:HIS:CD2	1:P:740:HIS:CD2	2.99	0.50
1:K:479:ASN:HD22	1:a:641:MET:H	1.58	0.50
1:K:503:ALA:HB2	1:8:449:SER:HB3	1.93	0.50
1:L:308:PRO:HB2	1:L:417:PHE:CE2	2.46	0.50
1:M:308:PRO:HB2	1:M:417:PHE:CE2	2.46	0.50
1:R:308:PRO:HB2	1:R:417:PHE:CE2	2.46	0.50
1:W:449:SER:HB3	1:Y:503:ALA:HB2	1.93	0.50
1:d:308:PRO:HB2	1:d:417:PHE:CE2	2.46	0.50
1:g:350:LEU:HD11	1:g:397:LEU:HD22	1.92	0.50
1:h:308:PRO:HB2	1:h:417:PHE:CE2	2.46	0.50
1:k:321:LYS:NZ	1:k:334:ASN:OD1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:308:PRO:HB2	1:n:417:PHE:CE2	2.46	0.50
1:o:308:PRO:HB2	1:o:417:PHE:CE2	2.46	0.50
1:q:308:PRO:HB2	1:q:417:PHE:CE2	2.46	0.50
1:t:348:TYR:OH	1:t:649:PRO:O	2.25	0.50
1:t:503:ALA:HB2	1:v:449:SER:HB3	1.93	0.50
1:v:262:ARG:NH1	1:1:723:ASN:OD1	2.43	0.50
1:w:503:ALA:HB2	1:y:449:SER:HB3	1.93	0.50
1:z:449:SER:HB3	1:1:503:ALA:HB2	1.93	0.50
1:H:449:SER:HB3	1:W:503:ALA:HB2	1.93	0.50
1:R:449:SER:HB3	1:S:503:ALA:HB2	1.93	0.50
1:S:542:SER:OG	1:S:579:ASP:OD2	2.26	0.50
1:U:308:PRO:HB2	1:U:417:PHE:CE2	2.46	0.50
1:X:308:PRO:HB2	1:X:417:PHE:CE2	2.46	0.50
1:q:641:MET:H	1:s:479:ASN:HD22	1.58	0.50
1:s:321:LYS:NZ	1:s:334:ASN:OD1	2.27	0.50
1:z:308:PRO:HB2	1:z:417:PHE:CE2	2.46	0.50
1:3:641:MET:H	1:4:479:ASN:HD22	1.58	0.50
1:5:503:ALA:HB2	1:7:449:SER:HB3	1.93	0.50
1:A:449:SER:HB3	1:G:503:ALA:HB2	1.94	0.50
1:E:308:PRO:HB2	1:E:417:PHE:CE2	2.46	0.50
1:G:308:PRO:HB2	1:G:417:PHE:CE2	2.46	0.50
1:I:321:LYS:NZ	1:I:334:ASN:OD1	2.27	0.50
1:K:630:HIS:CD2	1:8:740:HIS:CD2	2.99	0.50
1:S:740:HIS:CD2	1:U:630:HIS:CD2	2.99	0.50
1:T:348:TYR:OH	1:T:649:PRO:O	2.25	0.50
1:T:617:ASP:OD1	1:T:735:SER:OG	2.20	0.50
1:V:308:PRO:HB2	1:V:417:PHE:CE2	2.46	0.50
1:Z:740:HIS:CD2	1:4:630:HIS:CD2	2.99	0.50
1:i:479:ASN:HD22	1:j:641:MET:H	1.58	0.50
1:p:308:PRO:HB2	1:p:417:PHE:CE2	2.46	0.50
1:t:308:PRO:HB2	1:t:417:PHE:CE2	2.46	0.50
1:1:449:SER:HB3	1:2:503:ALA:HB2	1.92	0.50
1:5:449:SER:HB3	1:6:503:ALA:HB2	1.93	0.50
1:6:449:SER:HB3	1:7:503:ALA:HB2	1.93	0.50
1:7:308:PRO:HB2	1:7:417:PHE:CE2	2.46	0.50
1:C:350:LEU:HD11	1:C:397:LEU:HD22	1.92	0.50
1:G:348:TYR:OH	1:G:649:PRO:O	2.25	0.50
1:H:503:ALA:HB2	1:Y:449:SER:HB3	1.93	0.50
1:M:503:ALA:HB2	1:b:449:SER:HB3	1.93	0.50
1:Y:308:PRO:HB2	1:Y:417:PHE:CE2	2.46	0.50
1:b:542:SER:OG	1:b:579:ASP:OD2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:542:SER:OG	1:e:579:ASP:OD2	2.26	0.50
1:i:350:LEU:HD11	1:i:397:LEU:HD22	1.92	0.50
1:m:308:PRO:HB2	1:m:417:PHE:CE2	2.46	0.50
1:u:321:LYS:NZ	1:u:334:ASN:OD1	2.27	0.50
1:w:308:PRO:HB2	1:w:417:PHE:CE2	2.46	0.50
1:1:321:LYS:NZ	1:1:334:ASN:OD1	2.27	0.50
1:C:308:PRO:HB2	1:C:417:PHE:CE2	2.46	0.50
1:N:350:LEU:HD11	1:N:397:LEU:HD22	1.92	0.50
1:O:503:ALA:HB2	1:n:449:SER:HB3	1.93	0.50
1:W:479:ASN:HD22	1:Y:641:MET:H	1.58	0.50
1:a:740:HIS:CD2	1:8:630:HIS:CD2	2.99	0.50
1:b:308:PRO:HB2	1:b:417:PHE:CE2	2.46	0.50
1:b:321:LYS:NZ	1:b:334:ASN:OD1	2.27	0.50
1:d:449:SER:HB3	1:l:503:ALA:HB2	1.93	0.50
1:r:542:SER:OG	1:r:579:ASP:OD2	2.26	0.50
1:B:348:TYR:OH	1:B:649:PRO:O	2.25	0.50
1:D:449:SER:HB3	1:N:503:ALA:HB2	1.93	0.50
1:E:630:HIS:CD2	1:F:740:HIS:CD2	2.99	0.50
1:F:308:PRO:HB2	1:F:417:PHE:CE2	2.46	0.50
1:M:630:HIS:CD2	1:b:740:HIS:CD2	2.99	0.50
1:T:308:PRO:HB2	1:T:417:PHE:CE2	2.46	0.50
1:T:717:MET:CE	1:U:275:PHE:CE2	2.95	0.50
1:U:321:LYS:NZ	1:U:334:ASN:OD1	2.27	0.50
1:Z:630:HIS:CD2	1:3:740:HIS:CD2	2.99	0.50
1:f:308:PRO:HB2	1:f:417:PHE:CE2	2.46	0.50
1:f:449:SER:HB3	1:h:503:ALA:HB2	1.93	0.50
1:f:740:HIS:CD2	1:h:630:HIS:CD2	2.99	0.50
1:g:308:PRO:HB2	1:g:417:PHE:CE2	2.46	0.50
1:u:449:SER:HB3	1:v:503:ALA:HB2	1.93	0.50
1:v:321:LYS:NZ	1:v:334:ASN:OD1	2.27	0.50
1:w:630:HIS:CD2	1:y:740:HIS:CD2	2.99	0.50
1:1:348:TYR:OH	1:1:649:PRO:O	2.25	0.50
1:3:503:ALA:HB2	1:4:449:SER:HB3	1.93	0.50
1:A:503:ALA:HB2	1:I:449:SER:HB3	1.93	0.50
1:N:617:ASP:OD1	1:N:735:SER:OG	2.20	0.50
1:Q:308:PRO:HB2	1:Q:417:PHE:CE2	2.46	0.50
1:T:321:LYS:NZ	1:T:334:ASN:OD1	2.27	0.50
1:c:542:SER:OG	1:c:579:ASP:OD2	2.26	0.50
1:f:542:SER:OG	1:f:579:ASP:OD2	2.26	0.50
1:i:503:ALA:HB2	1:k:449:SER:HB3	1.93	0.50
1:i:617:ASP:OD1	1:i:735:SER:OG	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:348:TYR:OH	1:m:649:PRO:O	2.25	0.50
1:y:308:PRO:HB2	1:y:417:PHE:CE2	2.46	0.50
1:3:308:PRO:HB2	1:3:417:PHE:CE2	2.46	0.50
1:6:479:ASN:HD22	1:7:641:MET:H	1.58	0.50
1:K:449:SER:HB3	1:a:503:ALA:HB2	1.93	0.50
1:a:308:PRO:HB2	1:a:417:PHE:CE2	2.46	0.50
1:m:321:LYS:NZ	1:m:334:ASN:OD1	2.27	0.50
1:n:348:TYR:OH	1:n:649:PRO:O	2.25	0.50
1:o:308:PRO:HD3	1:o:644:PHE:CE2	2.47	0.50
1:q:308:PRO:HD3	1:q:644:PHE:CE2	2.47	0.50
1:x:308:PRO:HB2	1:x:417:PHE:CE2	2.46	0.50
1:G:321:LYS:NZ	1:G:334:ASN:OD1	2.27	0.49
1:H:348:TYR:OH	1:H:649:PRO:O	2.25	0.49
1:Q:308:PRO:HD3	1:Q:644:PHE:CE2	2.47	0.49
1:R:308:PRO:HD3	1:R:644:PHE:CE2	2.47	0.49
1:X:308:PRO:HD3	1:X:644:PHE:CE2	2.47	0.49
1:v:308:PRO:HB2	1:v:417:PHE:CE2	2.46	0.49
1:x:308:PRO:HD3	1:x:644:PHE:CE2	2.47	0.49
1:5:348:TYR:OH	1:5:649:PRO:O	2.25	0.49
1:H:308:PRO:HD3	1:H:644:PHE:CE2	2.47	0.49
1:K:308:PRO:HD3	1:K:644:PHE:CE2	2.47	0.49
1:S:308:PRO:HB2	1:S:417:PHE:CE2	2.46	0.49
1:U:308:PRO:HD3	1:U:644:PHE:CE2	2.47	0.49
1:h:308:PRO:HD3	1:h:644:PHE:CE2	2.47	0.49
1:s:308:PRO:HD3	1:s:644:PHE:CE2	2.47	0.49
1:4:308:PRO:HD3	1:4:644:PHE:CE2	2.47	0.49
1:5:308:PRO:HD3	1:5:644:PHE:CE2	2.47	0.49
1:6:308:PRO:HB2	1:6:417:PHE:CE2	2.46	0.49
1:A:308:PRO:HB2	1:A:417:PHE:CE2	2.46	0.49
1:J:542:SER:OG	1:J:579:ASP:OD2	2.26	0.49
1:M:308:PRO:HD3	1:M:644:PHE:CE2	2.47	0.49
1:O:449:SER:HB3	1:m:503:ALA:HB2	1.93	0.49
1:T:503:ALA:HB2	1:l:449:SER:HB3	1.93	0.49
1:Y:308:PRO:HD3	1:Y:644:PHE:CE2	2.47	0.49
1:a:308:PRO:HD3	1:a:644:PHE:CE2	2.47	0.49
1:a:621:GLN:HE22	1:a:732:ALA:HA	1.78	0.49
1:b:308:PRO:HD3	1:b:644:PHE:CE2	2.47	0.49
1:f:308:PRO:HD3	1:f:644:PHE:CE2	2.47	0.49
1:n:350:LEU:HD11	1:n:397:LEU:HD22	1.92	0.49
1:r:308:PRO:HB2	1:r:417:PHE:CE2	2.46	0.49
1:t:621:GLN:HE22	1:t:732:ALA:HA	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:717:MET:CE	1:3:275:PHE:CE2	2.95	0.49
1:3:308:PRO:HD3	1:3:644:PHE:CE2	2.47	0.49
1:3:621:GLN:HE22	1:3:732:ALA:HA	1.78	0.49
1:4:621:GLN:HE22	1:4:732:ALA:HA	1.78	0.49
1:7:308:PRO:HD3	1:7:644:PHE:CE2	2.47	0.49
1:8:308:PRO:HD3	1:8:644:PHE:CE2	2.47	0.49
1:B:617:ASP:OD1	1:B:735:SER:OG	2.20	0.49
1:C:275:PHE:CE2	1:D:717:MET:CE	2.96	0.49
1:G:621:GLN:HE22	1:G:732:ALA:HA	1.78	0.49
1:J:717:MET:CE	1:a:275:PHE:CE2	2.95	0.49
1:K:621:GLN:HE22	1:K:732:ALA:HA	1.78	0.49
1:M:621:GLN:HE22	1:M:732:ALA:HA	1.78	0.49
1:P:621:GLN:HE22	1:P:732:ALA:HA	1.78	0.49
1:W:308:PRO:HB2	1:W:417:PHE:CE2	2.46	0.49
1:Y:621:GLN:HE22	1:Y:732:ALA:HA	1.78	0.49
1:Z:308:PRO:HD3	1:Z:644:PHE:CE2	2.47	0.49
1:d:350:LEU:HD11	1:d:397:LEU:HD22	1.92	0.49
1:g:308:PRO:HD3	1:g:644:PHE:CE2	2.47	0.49
1:j:308:PRO:HD3	1:j:644:PHE:CE2	2.47	0.49
1:j:621:GLN:HE22	1:j:732:ALA:HA	1.78	0.49
1:7:621:GLN:HE22	1:7:732:ALA:HA	1.78	0.49
1:C:308:PRO:HD3	1:C:644:PHE:CE2	2.48	0.49
1:I:542:SER:OG	1:I:579:ASP:OD2	2.26	0.49
1:J:621:GLN:HE22	1:J:732:ALA:HA	1.78	0.49
1:P:308:PRO:HD3	1:P:644:PHE:CE2	2.47	0.49
1:R:641:MET:H	1:U:479:ASN:HD22	1.59	0.49
1:V:308:PRO:HD3	1:V:644:PHE:CE2	2.47	0.49
1:g:275:PHE:CE2	1:k:717:MET:CE	2.96	0.49
1:h:621:GLN:HE22	1:h:732:ALA:HA	1.78	0.49
1:i:621:GLN:HE22	1:i:732:ALA:HA	1.78	0.49
1:k:308:PRO:HD3	1:k:644:PHE:CE2	2.48	0.49
1:p:308:PRO:HD3	1:p:644:PHE:CE2	2.48	0.49
1:t:321:LYS:NZ	1:t:334:ASN:OD1	2.27	0.49
1:z:501:ILE:H	1:2:450:THR:HG1	1.61	0.49
1:1:617:ASP:OD1	1:1:735:SER:OG	2.20	0.49
1:2:542:SER:OG	1:2:579:ASP:OD2	2.26	0.49
1:B:308:PRO:HD3	1:B:644:PHE:CE2	2.47	0.49
1:B:449:SER:HB3	1:J:503:ALA:HB2	1.93	0.49
1:D:308:PRO:HD3	1:D:644:PHE:CE2	2.48	0.49
1:E:308:PRO:HD3	1:E:644:PHE:CE2	2.47	0.49
1:H:542:SER:OG	1:H:579:ASP:OD2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:717:MET:CE	1:I:275:PHE:CE2	2.95	0.49
1:N:621:GLN:HE22	1:N:732:ALA:HA	1.78	0.49
1:N:717:MET:CE	1:m:275:PHE:CE2	2.96	0.49
1:R:621:GLN:HE22	1:R:732:ALA:HA	1.78	0.49
1:T:275:PHE:CE2	1:i:717:MET:CE	2.96	0.49
1:X:621:GLN:HE22	1:X:732:ALA:HA	1.78	0.49
1:d:308:PRO:HD3	1:d:644:PHE:CE2	2.47	0.49
1:g:542:SER:OG	1:g:579:ASP:OD2	2.26	0.49
1:g:621:GLN:HE22	1:g:732:ALA:HA	1.78	0.49
1:n:308:PRO:HD3	1:n:644:PHE:CE2	2.47	0.49
1:o:621:GLN:HE22	1:o:732:ALA:HA	1.78	0.49
1:p:348:TYR:OH	1:p:649:PRO:O	2.25	0.49
1:u:542:SER:OG	1:u:579:ASP:OD2	2.26	0.49
1:w:308:PRO:HD3	1:w:644:PHE:CE2	2.47	0.49
1:1:308:PRO:HD3	1:1:644:PHE:CE2	2.47	0.49
1:2:308:PRO:HD3	1:2:644:PHE:CE2	2.47	0.49
1:2:621:GLN:HE22	1:2:732:ALA:HA	1.78	0.49
1:C:542:SER:OG	1:C:579:ASP:OD2	2.26	0.49
1:I:308:PRO:HD3	1:I:644:PHE:CE2	2.47	0.49
1:J:308:PRO:HD3	1:J:644:PHE:CE2	2.47	0.49
1:O:308:PRO:HD3	1:O:644:PHE:CE2	2.47	0.49
1:O:717:MET:CE	1:P:275:PHE:CE2	2.95	0.49
1:c:348:TYR:OH	1:c:649:PRO:O	2.25	0.49
1:j:275:PHE:CE2	1:l:717:MET:CE	2.95	0.49
1:q:621:GLN:HE22	1:q:732:ALA:HA	1.78	0.49
1:u:275:PHE:CE2	1:5:717:MET:CE	2.95	0.49
1:z:308:PRO:HD3	1:z:644:PHE:CE2	2.47	0.49
1:C:449:SER:HB3	1:b:503:ALA:HB2	1.94	0.49
1:C:621:GLN:HE22	1:C:732:ALA:HA	1.78	0.49
1:G:449:SER:HB3	1:I:503:ALA:HB2	1.93	0.49
1:H:621:GLN:HE22	1:H:732:ALA:HA	1.78	0.49
1:L:308:PRO:HD3	1:L:644:PHE:CE2	2.47	0.49
1:V:449:SER:HB3	1:e:503:ALA:HB2	1.93	0.49
1:c:308:PRO:HD3	1:c:644:PHE:CE2	2.47	0.49
1:l:308:PRO:HD3	1:l:644:PHE:CE2	2.47	0.49
1:m:717:MET:CE	1:s:275:PHE:CE2	2.96	0.49
1:t:449:SER:HB3	1:u:503:ALA:HB2	1.93	0.49
1:z:621:GLN:HE22	1:z:732:ALA:HA	1.78	0.49
1:L:621:GLN:HE22	1:L:732:ALA:HA	1.78	0.49
1:M:275:PHE:CE2	1:c:717:MET:CE	2.95	0.49
1:N:542:SER:OG	1:N:579:ASP:OD2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:717:MET:CE	1:Q:275:PHE:CE2	2.95	0.49
1:V:348:TYR:OH	1:V:649:PRO:O	2.25	0.49
1:e:308:PRO:HD3	1:e:644:PHE:CE2	2.47	0.49
1:e:348:TYR:OH	1:e:649:PRO:O	2.25	0.49
1:e:621:GLN:HE22	1:e:732:ALA:HA	1.78	0.49
1:g:717:MET:CE	1:1:275:PHE:CE2	2.95	0.49
1:i:308:PRO:HD3	1:i:644:PHE:CE2	2.47	0.49
1:i:542:SER:OG	1:i:579:ASP:OD2	2.26	0.49
1:j:717:MET:CE	1:x:275:PHE:CE2	2.95	0.49
1:u:308:PRO:HD3	1:u:644:PHE:CE2	2.47	0.49
1:v:308:PRO:HD3	1:v:644:PHE:CE2	2.47	0.49
1:5:621:GLN:HE22	1:5:732:ALA:HA	1.78	0.49
1:8:308:PRO:HB2	1:8:417:PHE:CE2	2.46	0.49
1:B:621:GLN:HE22	1:B:732:ALA:HA	1.78	0.49
1:F:308:PRO:HD3	1:F:644:PHE:CE2	2.47	0.49
1:F:621:GLN:HE22	1:F:732:ALA:HA	1.78	0.49
1:c:503:ALA:HB2	1:p:449:SER:HB3	1.93	0.49
1:e:717:MET:CE	1:h:275:PHE:CE2	2.95	0.49
1:f:503:ALA:HB2	1:g:449:SER:HB3	1.93	0.49
1:m:542:SER:OG	1:m:579:ASP:OD2	2.26	0.49
1:y:621:GLN:HE22	1:y:732:ALA:HA	1.78	0.49
1:A:308:PRO:HD3	1:A:644:PHE:CE2	2.47	0.48
1:F:717:MET:CE	1:G:275:PHE:CE2	2.95	0.48
1:N:308:PRO:HD3	1:N:644:PHE:CE2	2.47	0.48
1:U:300:ILE:HD12	1:U:737:PHE:CE2	2.49	0.48
1:W:542:SER:OG	1:W:579:ASP:OD2	2.26	0.48
1:Z:308:PRO:HB2	1:Z:417:PHE:CE2	2.46	0.48
1:c:621:GLN:HE22	1:c:732:ALA:HA	1.78	0.48
1:n:621:GLN:HE22	1:n:732:ALA:HA	1.78	0.48
1:r:308:PRO:HD3	1:r:644:PHE:CE2	2.47	0.48
1:y:308:PRO:HD3	1:y:644:PHE:CE2	2.47	0.48
1:G:472:ASP:HA	1:I:270:ASN:ND2	2.29	0.48
1:I:621:GLN:HE22	1:I:732:ALA:HA	1.78	0.48
1:S:308:PRO:HD3	1:S:644:PHE:CE2	2.47	0.48
1:T:621:GLN:HE22	1:T:732:ALA:HA	1.78	0.48
1:d:621:GLN:HE22	1:d:732:ALA:HA	1.78	0.48
1:m:621:GLN:HE22	1:m:732:ALA:HA	1.78	0.48
1:p:621:GLN:HE22	1:p:732:ALA:HA	1.78	0.48
1:s:300:ILE:HD12	1:s:737:PHE:CE2	2.49	0.48
1:t:308:PRO:HD3	1:t:644:PHE:CE2	2.47	0.48
1:t:472:ASP:HA	1:u:270:ASN:ND2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:621:GLN:HE22	1:1:732:ALA:HA	1.78	0.48
1:C:551:PRO:HB3	1:C:728:HIS:CE1	2.49	0.48
1:E:472:ASP:HA	1:Q:270:ASN:ND2	2.29	0.48
1:F:300:ILE:HD12	1:F:737:PHE:CE2	2.49	0.48
1:Q:300:ILE:HD12	1:Q:737:PHE:CE2	2.49	0.48
1:R:551:PRO:HB3	1:R:728:HIS:CE1	2.49	0.48
1:U:551:PRO:HB3	1:U:728:HIS:CE1	2.49	0.48
1:V:551:PRO:HB3	1:V:728:HIS:CE1	2.49	0.48
1:V:621:GLN:HE22	1:V:732:ALA:HA	1.78	0.48
1:X:300:ILE:HD12	1:X:737:PHE:CE2	2.49	0.48
1:d:542:SER:OG	1:d:579:ASP:OD2	2.26	0.48
1:g:551:PRO:HB3	1:g:728:HIS:CE1	2.49	0.48
1:o:300:ILE:HD12	1:o:737:PHE:CE2	2.49	0.48
1:p:551:PRO:HB3	1:p:728:HIS:CE1	2.49	0.48
1:q:551:PRO:HB3	1:q:728:HIS:CE1	2.49	0.48
1:t:275:PHE:CE2	1:y:717:MET:CE	2.95	0.48
1:u:300:ILE:HD12	1:u:737:PHE:CE2	2.49	0.48
1:v:300:ILE:HD12	1:v:737:PHE:CE2	2.49	0.48
1:w:472:ASP:HA	1:x:270:ASN:ND2	2.29	0.48
1:w:621:GLN:HE22	1:w:732:ALA:HA	1.78	0.48
1:x:300:ILE:HD12	1:x:737:PHE:CE2	2.49	0.48
1:y:300:ILE:HD12	1:y:737:PHE:CE2	2.49	0.48
1:A:300:ILE:HD12	1:A:737:PHE:CE2	2.49	0.48
1:B:551:PRO:HB3	1:B:728:HIS:CE1	2.49	0.48
1:D:551:PRO:HB3	1:D:728:HIS:CE1	2.49	0.48
1:G:308:PRO:HD3	1:G:644:PHE:CE2	2.47	0.48
1:G:551:PRO:HB3	1:G:728:HIS:CE1	2.49	0.48
1:I:717:MET:CE	1:J:275:PHE:CE2	2.96	0.48
1:M:551:PRO:HB3	1:M:728:HIS:CE1	2.49	0.48
1:O:621:GLN:HE22	1:O:732:ALA:HA	1.78	0.48
1:R:275:PHE:CE2	1:V:717:MET:CE	2.96	0.48
1:T:542:SER:OG	1:T:579:ASP:OD2	2.26	0.48
1:U:621:GLN:HE22	1:U:732:ALA:HA	1.78	0.48
1:W:308:PRO:HD3	1:W:644:PHE:CE2	2.48	0.48
1:a:300:ILE:HD12	1:a:737:PHE:CE2	2.48	0.48
1:a:434:ARG:HD3	1:a:434:ARG:HA	1.49	0.48
1:d:551:PRO:HB3	1:d:728:HIS:CE1	2.49	0.48
1:h:300:ILE:HD12	1:h:737:PHE:CE2	2.49	0.48
1:h:551:PRO:HB3	1:h:728:HIS:CE1	2.49	0.48
1:n:551:PRO:HB3	1:n:728:HIS:CE1	2.49	0.48
1:p:717:MET:CE	1:q:275:PHE:CE2	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:300:ILE:HD12	1:r:737:PHE:CE2	2.48	0.48
1:r:551:PRO:HB3	1:r:728:HIS:CE1	2.49	0.48
1:s:542:SER:OG	1:s:579:ASP:OD2	2.26	0.48
1:t:551:PRO:HB3	1:t:728:HIS:CE1	2.49	0.48
1:u:621:GLN:HE22	1:u:732:ALA:HA	1.78	0.48
1:x:621:GLN:HE22	1:x:732:ALA:HA	1.78	0.48
1:1:542:SER:OG	1:1:579:ASP:OD2	2.26	0.48
1:1:551:PRO:HB3	1:1:728:HIS:CE1	2.49	0.48
1:3:300:ILE:HD12	1:3:737:PHE:CE2	2.48	0.48
1:8:542:SER:OG	1:8:579:ASP:OD2	2.26	0.48
1:B:275:PHE:CE2	1:C:717:MET:CE	2.96	0.48
1:D:428:HIS:HE1	1:N:630:HIS:O	1.97	0.48
1:E:621:GLN:HE22	1:E:732:ALA:HA	1.78	0.48
1:H:300:ILE:HD12	1:H:737:PHE:CE2	2.49	0.48
1:I:300:ILE:HD12	1:I:737:PHE:CE2	2.49	0.48
1:M:300:ILE:HD12	1:M:737:PHE:CE2	2.49	0.48
1:R:300:ILE:HD12	1:R:737:PHE:CE2	2.49	0.48
1:S:551:PRO:HB3	1:S:728:HIS:CE1	2.49	0.48
1:S:621:GLN:HE22	1:S:732:ALA:HA	1.78	0.48
1:T:308:PRO:HD3	1:T:644:PHE:CE2	2.47	0.48
1:T:428:HIS:HE1	1:d:630:HIS:O	1.97	0.48
1:U:717:MET:CE	1:e:275:PHE:CE2	2.95	0.48
1:Z:551:PRO:HB3	1:Z:728:HIS:CE1	2.49	0.48
1:b:300:ILE:HD12	1:b:737:PHE:CE2	2.49	0.48
1:i:551:PRO:HB3	1:i:728:HIS:CE1	2.49	0.48
1:i:630:HIS:O	1:k:428:HIS:HE1	1.97	0.48
1:k:551:PRO:HB3	1:k:728:HIS:CE1	2.49	0.48
1:l:621:GLN:HE22	1:l:732:ALA:HA	1.78	0.48
1:p:542:SER:OG	1:p:579:ASP:OD2	2.26	0.48
1:q:300:ILE:HD12	1:q:737:PHE:CE2	2.49	0.48
1:s:551:PRO:HB3	1:s:728:HIS:CE1	2.49	0.48
1:s:621:GLN:HE22	1:s:732:ALA:HA	1.78	0.48
1:u:717:MET:CE	1:2:275:PHE:CE2	2.95	0.48
1:v:621:GLN:HE22	1:v:732:ALA:HA	1.78	0.48
1:6:308:PRO:HD3	1:6:644:PHE:CE2	2.48	0.48
1:8:551:PRO:HB3	1:8:728:HIS:CE1	2.49	0.48
1:A:621:GLN:HE22	1:A:732:ALA:HA	1.78	0.48
1:B:428:HIS:HE1	1:J:630:HIS:O	1.97	0.48
1:G:434:ARG:HA	1:G:434:ARG:HD3	1.49	0.48
1:L:551:PRO:HB3	1:L:728:HIS:CE1	2.49	0.48
1:N:551:PRO:HB3	1:N:728:HIS:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:621:GLN:HE22	1:Q:732:ALA:HA	1.78	0.48
1:f:300:ILE:HD12	1:f:737:PHE:CE2	2.49	0.48
1:j:542:SER:OG	1:j:579:ASP:OD2	2.26	0.48
1:m:428:HIS:HE1	1:n:630:HIS:O	1.97	0.48
1:n:542:SER:OG	1:n:579:ASP:OD2	2.26	0.48
1:q:348:TYR:OH	1:q:649:PRO:O	2.25	0.48
1:r:621:GLN:HE22	1:r:732:ALA:HA	1.78	0.48
1:z:551:PRO:HB3	1:z:728:HIS:CE1	2.49	0.48
1:5:300:ILE:HD12	1:5:737:PHE:CE2	2.49	0.48
1:B:542:SER:OG	1:B:579:ASP:OD2	2.26	0.48
1:D:621:GLN:HE22	1:D:732:ALA:HA	1.78	0.48
1:E:542:SER:OG	1:E:579:ASP:OD2	2.26	0.48
1:I:551:PRO:HB3	1:I:728:HIS:CE1	2.49	0.48
1:N:428:HIS:HE1	1:P:630:HIS:O	1.97	0.48
1:Q:717:MET:CE	1:S:275:PHE:CE2	2.96	0.48
1:S:300:ILE:HD12	1:S:737:PHE:CE2	2.49	0.48
1:V:630:HIS:O	1:X:428:HIS:HE1	1.97	0.48
1:Y:551:PRO:HB3	1:Y:728:HIS:CE1	2.49	0.48
1:a:551:PRO:HB3	1:a:728:HIS:CE1	2.49	0.48
1:i:428:HIS:HE1	1:j:630:HIS:O	1.97	0.48
1:k:621:GLN:HE22	1:k:732:ALA:HA	1.78	0.48
1:l:300:ILE:HD12	1:l:737:PHE:CE2	2.49	0.48
1:m:308:PRO:HD3	1:m:644:PHE:CE2	2.47	0.48
1:o:428:HIS:HE1	1:p:630:HIS:O	1.97	0.48
1:p:300:ILE:HD12	1:p:737:PHE:CE2	2.49	0.48
1:u:551:PRO:HB3	1:u:728:HIS:CE1	2.49	0.48
1:w:542:SER:OG	1:w:579:ASP:OD2	2.26	0.48
1:1:428:HIS:HE1	1:2:630:HIS:O	1.97	0.48
1:6:551:PRO:HB3	1:6:728:HIS:CE1	2.49	0.48
1:7:551:PRO:HB3	1:7:728:HIS:CE1	2.49	0.48
1:B:270:ASN:ND2	1:L:472:ASP:HA	2.29	0.48
1:F:630:HIS:O	1:Q:428:HIS:HE1	1.97	0.48
1:H:630:HIS:O	1:Y:428:HIS:HE1	1.97	0.48
1:K:300:ILE:HD12	1:K:737:PHE:CE2	2.49	0.48
1:O:300:ILE:HD12	1:O:737:PHE:CE2	2.49	0.48
1:T:300:ILE:HD12	1:T:737:PHE:CE2	2.49	0.48
1:T:472:ASP:HA	1:d:270:ASN:ND2	2.29	0.48
1:V:300:ILE:HD12	1:V:737:PHE:CE2	2.49	0.48
1:V:542:SER:OG	1:V:579:ASP:OD2	2.26	0.48
1:W:300:ILE:HD12	1:W:737:PHE:CE2	2.49	0.48
1:W:551:PRO:HB3	1:W:728:HIS:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:542:SER:OG	1:Z:579:ASP:OD2	2.26	0.48
1:a:428:HIS:HE1	1:8:630:HIS:O	1.97	0.48
1:e:551:PRO:HB3	1:e:728:HIS:CE1	2.49	0.48
1:f:621:GLN:HE22	1:f:732:ALA:HA	1.78	0.48
1:m:300:ILE:HD12	1:m:737:PHE:CE2	2.49	0.48
1:r:275:PHE:CE2	1:x:717:MET:CE	2.96	0.48
1:s:348:TYR:OH	1:s:649:PRO:O	2.25	0.48
1:v:551:PRO:HB3	1:v:728:HIS:CE1	2.49	0.48
1:x:265:THR:HG22	1:x:272:TYR:CE2	2.49	0.48
1:3:551:PRO:HB3	1:3:728:HIS:CE1	2.49	0.48
1:6:300:ILE:HD12	1:6:737:PHE:CE2	2.49	0.48
1:A:270:ASN:ND2	1:I:472:ASP:HA	2.29	0.48
1:E:300:ILE:HD12	1:E:737:PHE:CE2	2.49	0.48
1:F:434:ARG:HD3	1:F:434:ARG:HA	1.49	0.48
1:K:472:ASP:HA	1:a:270:ASN:ND2	2.29	0.48
1:O:265:THR:HG22	1:O:272:TYR:CE2	2.49	0.48
1:R:348:TYR:OH	1:R:649:PRO:O	2.25	0.48
1:R:428:HIS:HE1	1:S:630:HIS:O	1.97	0.48
1:U:348:TYR:OH	1:U:649:PRO:O	2.25	0.48
1:V:275:PHE:CE2	1:W:717:MET:CE	2.96	0.48
1:X:542:SER:OG	1:X:579:ASP:OD2	2.26	0.48
1:Z:630:HIS:O	1:3:428:HIS:HE1	1.97	0.48
1:f:630:HIS:O	1:g:428:HIS:HE1	1.97	0.48
1:m:472:ASP:HA	1:n:270:ASN:ND2	2.29	0.48
1:q:428:HIS:HE1	1:r:630:HIS:O	1.97	0.48
1:w:300:ILE:HD12	1:w:737:PHE:CE2	2.48	0.48
1:x:428:HIS:HE1	1:y:630:HIS:O	1.97	0.48
1:z:472:ASP:HA	1:1:270:ASN:ND2	2.29	0.48
1:z:607:ILE:HD11	1:2:609:PRO:HD3	1.96	0.48
1:2:265:THR:HG22	1:2:272:TYR:CE2	2.49	0.48
1:3:270:ASN:ND2	1:4:472:ASP:HA	2.29	0.48
1:4:300:ILE:HD12	1:4:737:PHE:CE2	2.49	0.48
1:5:630:HIS:O	1:7:428:HIS:HE1	1.97	0.48
1:A:551:PRO:HB3	1:A:728:HIS:CE1	2.49	0.48
1:C:428:HIS:HE1	1:b:630:HIS:O	1.97	0.48
1:C:630:HIS:O	1:M:428:HIS:HE1	1.97	0.48
1:H:275:PHE:CE2	1:Z:717:MET:CE	2.95	0.48
1:J:265:THR:HG22	1:J:272:TYR:CE2	2.49	0.48
1:J:609:PRO:HD3	1:L:607:ILE:HD11	1.96	0.48
1:L:265:THR:HG22	1:L:272:TYR:CE2	2.49	0.48
1:Q:265:THR:HG22	1:Q:272:TYR:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:472:ASP:HA	1:S:270:ASN:ND2	2.29	0.48
1:T:265:THR:HG22	1:T:272:TYR:CE2	2.49	0.48
1:T:270:ASN:ND2	1:l:472:ASP:HA	2.29	0.48
1:T:551:PRO:HB3	1:T:728:HIS:CE1	2.49	0.48
1:Z:472:ASP:HA	1:4:270:ASN:ND2	2.29	0.48
1:Z:621:GLN:HE22	1:Z:732:ALA:HA	1.78	0.48
1:c:265:THR:HG22	1:c:272:TYR:CE2	2.49	0.48
1:c:551:PRO:HB3	1:c:728:HIS:CE1	2.49	0.48
1:d:265:THR:HG22	1:d:272:TYR:CE2	2.49	0.48
1:e:265:THR:HG22	1:e:272:TYR:CE2	2.49	0.48
1:g:630:HIS:O	1:h:428:HIS:HE1	1.97	0.48
1:l:265:THR:HG22	1:l:272:TYR:CE2	2.49	0.48
1:m:551:PRO:HB3	1:m:728:HIS:CE1	2.49	0.48
1:n:265:THR:HG22	1:n:272:TYR:CE2	2.49	0.48
1:p:275:PHE:CE2	1:6:717:MET:CE	2.95	0.48
1:u:428:HIS:HE1	1:v:630:HIS:O	1.97	0.48
1:w:551:PRO:HB3	1:w:728:HIS:CE1	2.49	0.48
1:y:551:PRO:HB3	1:y:728:HIS:CE1	2.49	0.48
1:1:300:ILE:HD12	1:1:737:PHE:CE2	2.49	0.48
1:3:434:ARG:HD3	1:3:434:ARG:HA	1.49	0.48
1:4:265:THR:HG22	1:4:272:TYR:CE2	2.49	0.48
1:A:717:MET:CE	1:E:275:PHE:CE2	2.96	0.47
1:B:300:ILE:HD12	1:B:737:PHE:CE2	2.49	0.47
1:C:300:ILE:HD12	1:C:737:PHE:CE2	2.49	0.47
1:E:551:PRO:HB3	1:E:728:HIS:CE1	2.49	0.47
1:F:265:THR:HG22	1:F:272:TYR:CE2	2.49	0.47
1:F:551:PRO:HB3	1:F:728:HIS:CE1	2.49	0.47
1:G:717:MET:CE	1:W:275:PHE:CE2	2.95	0.47
1:K:265:THR:HG22	1:K:272:TYR:CE2	2.49	0.47
1:K:270:ASN:ND2	1:8:472:ASP:HA	2.29	0.47
1:K:717:MET:CE	1:L:275:PHE:CE2	2.96	0.47
1:M:270:ASN:ND2	1:b:472:ASP:HA	2.29	0.47
1:N:609:PRO:HD3	1:P:607:ILE:HD11	1.97	0.47
1:O:472:ASP:HA	1:m:270:ASN:ND2	2.29	0.47
1:P:300:ILE:HD12	1:P:737:PHE:CE2	2.49	0.47
1:Q:551:PRO:HB3	1:Q:728:HIS:CE1	2.49	0.47
1:U:265:THR:HG22	1:U:272:TYR:CE2	2.49	0.47
1:W:428:HIS:HE1	1:Y:630:HIS:O	1.97	0.47
1:b:621:GLN:HE22	1:b:732:ALA:HA	1.78	0.47
1:c:275:PHE:CE2	1:s:717:MET:CE	2.95	0.47
1:d:300:ILE:HD12	1:d:737:PHE:CE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:472:ASP:HA	1:h:270:ASN:ND2	2.29	0.47
1:h:542:SER:OG	1:h:579:ASP:OD2	2.26	0.47
1:i:300:ILE:HD12	1:i:737:PHE:CE2	2.49	0.47
1:i:609:PRO:HD3	1:j:607:ILE:HD11	1.97	0.47
1:j:300:ILE:HD12	1:j:737:PHE:CE2	2.49	0.47
1:m:265:THR:HG22	1:m:272:TYR:CE2	2.49	0.47
1:o:542:SER:OG	1:o:579:ASP:OD2	2.26	0.47
1:s:265:THR:HG22	1:s:272:TYR:CE2	2.49	0.47
1:u:472:ASP:HA	1:v:270:ASN:ND2	2.29	0.47
1:v:717:MET:CE	1:w:275:PHE:CE2	2.95	0.47
1:y:265:THR:HG22	1:y:272:TYR:CE2	2.49	0.47
1:y:434:ARG:HD3	1:y:434:ARG:HA	1.49	0.47
1:z:265:THR:HG22	1:z:272:TYR:CE2	2.49	0.47
1:z:275:PHE:CE2	1:4:717:MET:CE	2.96	0.47
1:3:630:HIS:O	1:4:428:HIS:HE1	1.97	0.47
1:6:428:HIS:HE1	1:7:630:HIS:O	1.97	0.47
1:A:630:HIS:O	1:I:428:HIS:HE1	1.97	0.47
1:B:607:ILE:HD11	1:L:609:PRO:HD3	1.96	0.47
1:C:270:ASN:ND2	1:M:472:ASP:HA	2.29	0.47
1:D:300:ILE:HD12	1:D:737:PHE:CE2	2.49	0.47
1:D:472:ASP:HA	1:N:270:ASN:ND2	2.29	0.47
1:H:265:THR:HG22	1:H:272:TYR:CE2	2.49	0.47
1:J:300:ILE:HD12	1:J:737:PHE:CE2	2.49	0.47
1:K:428:HIS:HE1	1:a:630:HIS:O	1.97	0.47
1:K:607:ILE:HD11	1:8:609:PRO:HD3	1.97	0.47
1:K:609:PRO:HD3	1:a:607:ILE:HD11	1.97	0.47
1:N:300:ILE:HD12	1:N:737:PHE:CE2	2.49	0.47
1:O:551:PRO:HB3	1:O:728:HIS:CE1	2.49	0.47
1:P:256:ASN:OD1	1:P:374:GLN:NE2	2.48	0.47
1:T:256:ASN:OD1	1:T:374:GLN:NE2	2.48	0.47
1:V:472:ASP:HA	1:e:270:ASN:ND2	2.29	0.47
1:X:270:ASN:ND2	1:e:472:ASP:HA	2.29	0.47
1:Z:265:THR:HG22	1:Z:272:TYR:CE2	2.49	0.47
1:Z:609:PRO:HD3	1:4:607:ILE:HD11	1.97	0.47
1:b:551:PRO:HB3	1:b:728:HIS:CE1	2.49	0.47
1:f:551:PRO:HB3	1:f:728:HIS:CE1	2.49	0.47
1:g:270:ASN:ND2	1:h:472:ASP:HA	2.29	0.47
1:j:256:ASN:OD1	1:j:374:GLN:NE2	2.48	0.47
1:j:551:PRO:HB3	1:j:728:HIS:CE1	2.49	0.47
1:n:300:ILE:HD12	1:n:737:PHE:CE2	2.48	0.47
1:p:265:THR:HG22	1:p:272:TYR:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:472:ASP:HA	1:r:270:ASN:ND2	2.29	0.47
1:t:300:ILE:HD12	1:t:737:PHE:CE2	2.48	0.47
1:x:551:PRO:HB3	1:x:728:HIS:CE1	2.49	0.47
1:1:256:ASN:OD1	1:1:374:GLN:NE2	2.48	0.47
1:3:348:TYR:OH	1:3:649:PRO:O	2.25	0.47
1:3:607:ILE:HD11	1:4:609:PRO:HD3	1.97	0.47
1:5:275:PHE:CE2	1:8:717:MET:CE	2.95	0.47
1:8:265:THR:HG22	1:8:272:TYR:CE2	2.49	0.47
1:8:621:GLN:HE22	1:8:732:ALA:HA	1.78	0.47
1:A:527:PRO:HB2	1:A:616:ARG:NH2	2.30	0.47
1:B:256:ASN:OD1	1:B:374:GLN:NE2	2.48	0.47
1:C:434:ARG:HD3	1:C:434:ARG:HA	1.49	0.47
1:C:527:PRO:HB2	1:C:616:ARG:NH2	2.30	0.47
1:D:256:ASN:OD1	1:D:374:GLN:NE2	2.48	0.47
1:E:265:THR:HG22	1:E:272:TYR:CE2	2.49	0.47
1:H:256:ASN:OD1	1:H:374:GLN:NE2	2.48	0.47
1:H:607:ILE:HD11	1:Y:609:PRO:HD3	1.97	0.47
1:J:256:ASN:OD1	1:J:374:GLN:NE2	2.48	0.47
1:L:256:ASN:OD1	1:L:374:GLN:NE2	2.48	0.47
1:N:256:ASN:OD1	1:N:374:GLN:NE2	2.48	0.47
1:N:265:THR:HG22	1:N:272:TYR:CE2	2.49	0.47
1:N:491:PHE:CZ	1:N:509:LEU:HD11	2.50	0.47
1:P:265:THR:HG22	1:P:272:TYR:CE2	2.49	0.47
1:P:551:PRO:HB3	1:P:728:HIS:CE1	2.49	0.47
1:V:265:THR:HG22	1:V:272:TYR:CE2	2.49	0.47
1:W:256:ASN:OD1	1:W:374:GLN:NE2	2.48	0.47
1:W:621:GLN:HE22	1:W:732:ALA:HA	1.78	0.47
1:Z:270:ASN:ND2	1:3:472:ASP:HA	2.29	0.47
1:c:270:ASN:ND2	1:p:472:ASP:HA	2.29	0.47
1:c:472:ASP:HA	1:o:270:ASN:ND2	2.29	0.47
1:g:300:ILE:HD12	1:g:737:PHE:CE2	2.49	0.47
1:h:265:THR:HG22	1:h:272:TYR:CE2	2.49	0.47
1:i:256:ASN:OD1	1:i:374:GLN:NE2	2.48	0.47
1:i:265:THR:HG22	1:i:272:TYR:CE2	2.49	0.47
1:i:270:ASN:ND2	1:k:472:ASP:HA	2.29	0.47
1:i:491:PHE:CZ	1:i:509:LEU:HD11	2.50	0.47
1:k:256:ASN:OD1	1:k:374:GLN:NE2	2.48	0.47
1:m:256:ASN:OD1	1:m:374:GLN:NE2	2.48	0.47
1:q:607:ILE:HD11	1:s:609:PRO:HD3	1.96	0.47
1:r:434:ARG:HA	1:r:434:ARG:HD3	1.49	0.47
1:t:717:MET:CE	1:6:275:PHE:CE2	2.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:609:PRO:HD3	1:v:607:ILE:HD11	1.97	0.47
1:w:265:THR:HG22	1:w:272:TYR:CE2	2.49	0.47
1:x:348:TYR:OH	1:x:649:PRO:O	2.25	0.47
1:z:256:ASN:OD1	1:z:374:GLN:NE2	2.48	0.47
1:2:300:ILE:HD12	1:2:737:PHE:CE2	2.49	0.47
1:5:256:ASN:OD1	1:5:374:GLN:NE2	2.48	0.47
1:5:265:THR:HG22	1:5:272:TYR:CE2	2.49	0.47
1:6:256:ASN:OD1	1:6:374:GLN:NE2	2.48	0.47
1:A:265:THR:HG22	1:A:272:TYR:CE2	2.49	0.47
1:D:630:HIS:O	1:P:428:HIS:HE1	1.97	0.47
1:E:607:ILE:HD11	1:F:609:PRO:HD3	1.96	0.47
1:G:300:ILE:HD12	1:G:737:PHE:CE2	2.48	0.47
1:G:699:LYS:HG3	1:I:400:PHE:CZ	2.50	0.47
1:H:434:ARG:HA	1:H:434:ARG:HD3	1.49	0.47
1:H:472:ASP:HA	1:W:270:ASN:ND2	2.29	0.47
1:M:256:ASN:OD1	1:M:374:GLN:NE2	2.48	0.47
1:M:265:THR:HG22	1:M:272:TYR:CE2	2.49	0.47
1:M:527:PRO:HB2	1:M:616:ARG:NH2	2.30	0.47
1:M:542:SER:OG	1:M:579:ASP:OD2	2.26	0.47
1:O:275:PHE:CE2	1:d:717:MET:CE	2.95	0.47
1:O:428:HIS:HE1	1:m:630:HIS:O	1.97	0.47
1:Q:256:ASN:OD1	1:Q:374:GLN:NE2	2.48	0.47
1:Q:527:PRO:HB2	1:Q:616:ARG:NH2	2.30	0.47
1:S:491:PHE:CZ	1:S:509:LEU:HD11	2.50	0.47
1:T:609:PRO:HD3	1:d:607:ILE:HD11	1.96	0.47
1:W:434:ARG:HA	1:W:434:ARG:HD3	1.49	0.47
1:W:527:PRO:HB2	1:W:616:ARG:NH2	2.30	0.47
1:Z:348:TYR:OH	1:Z:649:PRO:O	2.25	0.47
1:a:256:ASN:OD1	1:a:374:GLN:NE2	2.48	0.47
1:a:265:THR:HG22	1:a:272:TYR:CE2	2.49	0.47
1:a:472:ASP:HA	1:8:270:ASN:ND2	2.29	0.47
1:a:491:PHE:CZ	1:a:509:LEU:HD11	2.50	0.47
1:a:527:PRO:HB2	1:a:616:ARG:NH2	2.30	0.47
1:c:300:ILE:HD12	1:c:737:PHE:CE2	2.49	0.47
1:d:256:ASN:OD1	1:d:374:GLN:NE2	2.48	0.47
1:d:472:ASP:HA	1:l:270:ASN:ND2	2.29	0.47
1:d:527:PRO:HB2	1:d:616:ARG:NH2	2.30	0.47
1:e:300:ILE:HD12	1:e:737:PHE:CE2	2.49	0.47
1:g:434:ARG:HD3	1:g:434:ARG:HA	1.49	0.47
1:g:527:PRO:HB2	1:g:616:ARG:NH2	2.30	0.47
1:h:256:ASN:OD1	1:h:374:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:527:PRO:HB2	1:h:616:ARG:NH2	2.30	0.47
1:j:265:THR:HG22	1:j:272:TYR:CE2	2.49	0.47
1:j:428:HIS:HE1	1:k:630:HIS:O	1.97	0.47
1:j:609:PRO:HD3	1:k:607:ILE:HD11	1.96	0.47
1:k:275:PHE:CE2	1:w:717:MET:CE	2.95	0.47
1:k:300:ILE:HD12	1:k:737:PHE:CE2	2.49	0.47
1:l:551:PRO:HB3	1:l:728:HIS:CE1	2.49	0.47
1:n:527:PRO:HB2	1:n:616:ARG:NH2	2.30	0.47
1:p:527:PRO:HB2	1:p:616:ARG:NH2	2.30	0.47
1:r:491:PHE:CZ	1:r:509:LEU:HD11	2.50	0.47
1:s:256:ASN:OD1	1:s:374:GLN:NE2	2.47	0.47
1:t:434:ARG:HD3	1:t:434:ARG:HA	1.49	0.47
1:t:699:LYS:HG3	1:u:400:PHE:CZ	2.50	0.47
1:v:265:THR:HG22	1:v:272:TYR:CE2	2.49	0.47
1:v:527:PRO:HB2	1:v:616:ARG:NH2	2.30	0.47
1:x:256:ASN:OD1	1:x:374:GLN:NE2	2.48	0.47
1:x:491:PHE:CZ	1:x:509:LEU:HD11	2.50	0.47
1:1:491:PHE:CZ	1:1:509:LEU:HD11	2.50	0.47
1:2:256:ASN:OD1	1:2:374:GLN:NE2	2.48	0.47
1:3:491:PHE:CZ	1:3:509:LEU:HD11	2.50	0.47
1:3:527:PRO:HB2	1:3:616:ARG:NH2	2.30	0.47
1:5:607:ILE:HD11	1:7:609:PRO:HD3	1.97	0.47
1:6:472:ASP:HA	1:7:270:ASN:ND2	2.29	0.47
1:6:527:PRO:HB2	1:6:616:ARG:NH2	2.30	0.47
1:8:300:ILE:HD12	1:8:737:PHE:CE2	2.49	0.47
1:B:491:PHE:CZ	1:B:509:LEU:HD11	2.50	0.47
1:C:256:ASN:OD1	1:C:374:GLN:NE2	2.48	0.47
1:D:607:ILE:HD11	1:P:609:PRO:HD3	1.96	0.47
1:H:270:ASN:ND2	1:Y:472:ASP:HA	2.30	0.47
1:H:527:PRO:HB2	1:H:616:ARG:NH2	2.30	0.47
1:O:270:ASN:ND2	1:n:472:ASP:HA	2.29	0.47
1:Q:491:PHE:CZ	1:Q:509:LEU:HD11	2.50	0.47
1:T:630:HIS:O	1:l:428:HIS:HE1	1.97	0.47
1:V:527:PRO:HB2	1:V:616:ARG:NH2	2.30	0.47
1:W:472:ASP:HA	1:Y:270:ASN:ND2	2.29	0.47
1:W:699:LYS:HG3	1:Y:400:PHE:CZ	2.50	0.47
1:X:717:MET:CE	1:Y:275:PHE:CE2	2.95	0.47
1:Y:491:PHE:CZ	1:Y:509:LEU:HD11	2.50	0.47
1:b:491:PHE:CZ	1:b:509:LEU:HD11	2.50	0.47
1:c:491:PHE:CZ	1:c:509:LEU:HD11	2.50	0.47
1:c:527:PRO:HB2	1:c:616:ARG:NH2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:609:PRO:HD3	1:o:607:ILE:HD11	1.97	0.47
1:d:491:PHE:CZ	1:d:509:LEU:HD11	2.50	0.47
1:e:491:PHE:CZ	1:e:509:LEU:HD11	2.50	0.47
1:e:527:PRO:HB2	1:e:616:ARG:NH2	2.30	0.47
1:f:491:PHE:CZ	1:f:509:LEU:HD11	2.50	0.47
1:g:256:ASN:OD1	1:g:374:GLN:NE2	2.48	0.47
1:m:609:PRO:HD3	1:n:607:ILE:HD11	1.96	0.47
1:n:256:ASN:OD1	1:n:374:GLN:NE2	2.48	0.47
1:q:270:ASN:ND2	1:s:472:ASP:HA	2.29	0.47
1:t:527:PRO:HB2	1:t:616:ARG:NH2	2.30	0.47
1:w:607:ILE:HD11	1:y:609:PRO:HD3	1.96	0.47
1:x:527:PRO:HB2	1:x:616:ARG:NH2	2.30	0.47
1:z:609:PRO:HD3	1:1:607:ILE:HD11	1.97	0.47
1:3:256:ASN:OD1	1:3:374:GLN:NE2	2.48	0.47
1:3:265:THR:HG22	1:3:272:TYR:CE2	2.49	0.47
1:4:527:PRO:HB2	1:4:616:ARG:NH2	2.30	0.47
1:5:270:ASN:ND2	1:7:472:ASP:HA	2.30	0.47
1:5:472:ASP:HA	1:6:270:ASN:ND2	2.29	0.47
1:5:527:PRO:HB2	1:5:616:ARG:NH2	2.30	0.47
1:6:621:GLN:HE22	1:6:732:ALA:HA	1.78	0.47
1:6:699:LYS:HG3	1:7:400:PHE:CZ	2.50	0.47
1:7:491:PHE:CZ	1:7:509:LEU:HD11	2.50	0.47
1:8:348:TYR:OH	1:8:649:PRO:O	2.25	0.47
1:A:607:ILE:HD11	1:I:609:PRO:HD3	1.97	0.47
1:A:699:LYS:HG3	1:G:400:PHE:CZ	2.50	0.47
1:B:630:HIS:O	1:L:428:HIS:HE1	1.97	0.47
1:C:472:ASP:HA	1:b:270:ASN:ND2	2.29	0.47
1:D:275:PHE:CE2	1:E:717:MET:CE	2.95	0.47
1:E:365:PHE:HB2	1:E:727:TYR:CD2	2.50	0.47
1:F:270:ASN:ND2	1:Q:472:ASP:HA	2.29	0.47
1:G:256:ASN:OD1	1:G:374:GLN:NE2	2.48	0.47
1:G:527:PRO:HB2	1:G:616:ARG:NH2	2.30	0.47
1:I:491:PHE:CZ	1:I:509:LEU:HD11	2.50	0.47
1:K:527:PRO:HB2	1:K:616:ARG:NH2	2.30	0.47
1:K:551:PRO:HB3	1:K:728:HIS:CE1	2.49	0.47
1:K:699:LYS:HG3	1:a:400:PHE:CZ	2.50	0.47
1:N:527:PRO:HB2	1:N:616:ARG:NH2	2.30	0.47
1:Q:348:TYR:OH	1:Q:649:PRO:O	2.25	0.47
1:U:256:ASN:OD1	1:U:374:GLN:NE2	2.48	0.47
1:V:365:PHE:HB2	1:V:727:TYR:CD2	2.50	0.47
1:V:607:ILE:HD11	1:X:609:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:699:LYS:HG3	1:e:400:PHE:CZ	2.50	0.47
1:X:256:ASN:OD1	1:X:374:GLN:NE2	2.48	0.47
1:X:551:PRO:HB3	1:X:728:HIS:CE1	2.49	0.47
1:X:607:ILE:HD11	1:e:609:PRO:HD3	1.97	0.47
1:Z:300:ILE:HD12	1:Z:737:PHE:CE2	2.49	0.47
1:a:348:TYR:OH	1:a:649:PRO:O	2.25	0.47
1:c:400:PHE:CZ	1:p:699:LYS:HG3	2.50	0.47
1:f:270:ASN:ND2	1:g:472:ASP:HA	2.29	0.47
1:f:699:LYS:HG3	1:h:400:PHE:CZ	2.50	0.47
1:i:527:PRO:HB2	1:i:616:ARG:NH2	2.30	0.47
1:l:275:PHE:CE2	1:n:717:MET:CE	2.95	0.47
1:n:491:PHE:CZ	1:n:509:LEU:HD11	2.50	0.47
1:o:265:THR:HG22	1:o:272:TYR:CE2	2.49	0.47
1:o:551:PRO:HB3	1:o:728:HIS:CE1	2.49	0.47
1:o:609:PRO:HD3	1:p:607:ILE:HD11	1.97	0.47
1:r:428:HIS:HE1	1:s:630:HIS:O	1.97	0.47
1:r:472:ASP:HA	1:s:270:ASN:ND2	2.29	0.47
1:s:434:ARG:HD3	1:s:434:ARG:HA	1.49	0.47
1:t:256:ASN:OD1	1:t:374:GLN:NE2	2.48	0.47
1:v:542:SER:OG	1:v:579:ASP:OD2	2.26	0.47
1:w:365:PHE:HB2	1:w:727:TYR:CD2	2.50	0.47
1:w:630:HIS:O	1:y:428:HIS:HE1	1.97	0.47
1:1:365:PHE:HB2	1:1:727:TYR:CD2	2.50	0.47
1:2:551:PRO:HB3	1:2:728:HIS:CE1	2.49	0.47
1:A:302:ASN:OD1	1:F:302:ASN:ND2	2.48	0.47
1:A:491:PHE:CZ	1:A:509:LEU:HD11	2.50	0.47
1:A:542:SER:OG	1:A:579:ASP:OD2	2.26	0.47
1:B:265:THR:HG22	1:B:272:TYR:CE2	2.49	0.47
1:B:365:PHE:HB2	1:B:727:TYR:CD2	2.50	0.47
1:B:472:ASP:HA	1:J:270:ASN:ND2	2.29	0.47
1:B:527:PRO:HB2	1:B:616:ARG:NH2	2.30	0.47
1:C:265:THR:HG22	1:C:272:TYR:CE2	2.49	0.47
1:C:491:PHE:CZ	1:C:509:LEU:HD11	2.50	0.47
1:D:609:PRO:HD3	1:N:607:ILE:HD11	1.97	0.47
1:E:256:ASN:OD1	1:E:374:GLN:NE2	2.48	0.47
1:E:270:ASN:ND2	1:F:472:ASP:HA	2.29	0.47
1:E:400:PHE:CZ	1:F:699:LYS:HG3	2.50	0.47
1:E:630:HIS:O	1:F:428:HIS:HE1	1.97	0.47
1:E:699:LYS:HG3	1:Q:400:PHE:CZ	2.50	0.47
1:F:491:PHE:CZ	1:F:509:LEU:HD11	2.50	0.47
1:G:432:LEU:HB3	1:I:518:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:428:HIS:HE1	1:W:630:HIS:O	1.97	0.47
1:H:491:PHE:CZ	1:H:509:LEU:HD11	2.50	0.47
1:I:365:PHE:HB2	1:I:727:TYR:CD2	2.50	0.47
1:J:428:HIS:HE1	1:L:630:HIS:O	1.97	0.47
1:J:472:ASP:HA	1:L:270:ASN:ND2	2.29	0.47
1:J:551:PRO:HB3	1:J:728:HIS:CE1	2.49	0.47
1:K:256:ASN:OD1	1:K:374:GLN:NE2	2.48	0.47
1:M:400:PHE:CZ	1:b:699:LYS:HG3	2.50	0.47
1:M:607:ILE:HD11	1:b:609:PRO:HD3	1.97	0.47
1:M:717:MET:CE	1:N:275:PHE:CE2	2.95	0.47
1:O:400:PHE:CZ	1:n:699:LYS:HG3	2.50	0.47
1:P:491:PHE:CZ	1:P:509:LEU:HD11	2.50	0.47
1:P:527:PRO:HB2	1:P:616:ARG:NH2	2.30	0.47
1:R:607:ILE:HD11	1:U:609:PRO:HD3	1.97	0.47
1:R:630:HIS:O	1:U:428:HIS:HE1	1.97	0.47
1:S:256:ASN:OD1	1:S:374:GLN:NE2	2.48	0.47
1:S:428:HIS:HE1	1:U:630:HIS:O	1.97	0.47
1:S:472:ASP:HA	1:U:270:ASN:ND2	2.30	0.47
1:U:434:ARG:HD3	1:U:434:ARG:HA	1.49	0.47
1:V:491:PHE:CZ	1:V:509:LEU:HD11	2.50	0.47
1:X:265:THR:HG22	1:X:272:TYR:CE2	2.49	0.47
1:Y:300:ILE:HD12	1:Y:737:PHE:CE2	2.49	0.47
1:Z:256:ASN:OD1	1:Z:374:GLN:NE2	2.48	0.47
1:Z:400:PHE:CZ	1:3:699:LYS:HG3	2.50	0.47
1:Z:699:LYS:HG3	1:4:400:PHE:CZ	2.50	0.47
1:a:699:LYS:HG3	1:8:400:PHE:CZ	2.50	0.47
1:b:256:ASN:OD1	1:b:374:GLN:NE2	2.48	0.47
1:c:256:ASN:OD1	1:c:374:GLN:NE2	2.48	0.47
1:d:699:LYS:HG3	1:l:400:PHE:CZ	2.50	0.47
1:e:256:ASN:OD1	1:e:374:GLN:NE2	2.48	0.47
1:e:302:ASN:OD1	1:f:302:ASN:ND2	2.48	0.47
1:f:527:PRO:HB2	1:f:616:ARG:NH2	2.30	0.47
1:g:265:THR:HG22	1:g:272:TYR:CE2	2.49	0.47
1:h:717:MET:CE	1:i:275:PHE:CE2	2.95	0.47
1:i:607:ILE:HD11	1:k:609:PRO:HD3	1.97	0.47
1:j:491:PHE:CZ	1:j:509:LEU:HD11	2.50	0.47
1:j:527:PRO:HB2	1:j:616:ARG:NH2	2.30	0.47
1:k:434:ARG:HA	1:k:434:ARG:HD3	1.49	0.47
1:o:256:ASN:OD1	1:o:374:GLN:NE2	2.48	0.47
1:o:717:MET:CE	1:7:275:PHE:CE2	2.95	0.47
1:p:365:PHE:HB2	1:p:727:TYR:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:491:PHE:CZ	1:p:509:LEU:HD11	2.50	0.47
1:q:630:HIS:O	1:s:428:HIS:HE1	1.97	0.47
1:r:265:THR:HG22	1:r:272:TYR:CE2	2.49	0.47
1:t:400:PHE:CZ	1:v:699:LYS:HG3	2.50	0.47
1:t:432:LEU:HB3	1:u:518:LEU:HD11	1.97	0.47
1:t:609:PRO:HD3	1:u:607:ILE:HD11	1.97	0.47
1:u:365:PHE:HB2	1:u:727:TYR:CD2	2.50	0.47
1:u:491:PHE:CZ	1:u:509:LEU:HD11	2.50	0.47
1:w:256:ASN:OD1	1:w:374:GLN:NE2	2.48	0.47
1:w:400:PHE:CZ	1:y:699:LYS:HG3	2.50	0.47
1:w:428:HIS:HE1	1:x:630:HIS:O	1.97	0.47
1:w:699:LYS:HG3	1:x:400:PHE:CZ	2.50	0.47
1:x:472:ASP:HA	1:y:270:ASN:ND2	2.29	0.47
1:y:491:PHE:CZ	1:y:509:LEU:HD11	2.50	0.47
1:z:270:ASN:ND2	1:2:472:ASP:HA	2.29	0.47
1:z:400:PHE:CZ	1:2:699:LYS:HG3	2.50	0.47
1:z:428:HIS:HE1	1:1:630:HIS:O	1.97	0.47
1:1:527:PRO:HB2	1:1:616:ARG:NH2	2.30	0.47
1:3:400:PHE:CZ	1:4:699:LYS:HG3	2.50	0.47
1:4:551:PRO:HB3	1:4:728:HIS:CE1	2.49	0.47
1:5:428:HIS:HE1	1:6:630:HIS:O	1.97	0.47
1:5:491:PHE:CZ	1:5:509:LEU:HD11	2.50	0.47
1:5:551:PRO:HB3	1:5:728:HIS:CE1	2.49	0.47
1:7:300:ILE:HD12	1:7:737:PHE:CE2	2.49	0.47
1:D:365:PHE:HB2	1:D:727:TYR:CD2	2.50	0.47
1:D:400:PHE:CZ	1:P:699:LYS:HG3	2.50	0.47
1:E:428:HIS:HE1	1:Q:630:HIS:O	1.97	0.47
1:G:609:PRO:HD3	1:I:607:ILE:HD11	1.97	0.47
1:H:551:PRO:HB3	1:H:728:HIS:CE1	2.49	0.47
1:J:699:LYS:HG3	1:L:400:PHE:CZ	2.50	0.47
1:K:400:PHE:CZ	1:8:699:LYS:HG3	2.50	0.47
1:K:491:PHE:CZ	1:K:509:LEU:HD11	2.50	0.47
1:M:348:TYR:OH	1:M:649:PRO:O	2.25	0.47
1:O:630:HIS:O	1:n:428:HIS:HE1	1.97	0.47
1:S:717:MET:CE	1:d:275:PHE:CE2	2.95	0.47
1:U:302:ASN:ND2	1:V:302:ASN:OD1	2.48	0.47
1:b:302:ASN:ND2	1:c:302:ASN:OD1	2.48	0.47
1:b:527:PRO:HB2	1:b:616:ARG:NH2	2.30	0.47
1:f:256:ASN:OD1	1:f:374:GLN:NE2	2.48	0.47
1:f:400:PHE:CZ	1:g:699:LYS:HG3	2.50	0.47
1:f:609:PRO:HD3	1:h:607:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:491:PHE:CZ	1:g:509:LEU:HD11	2.50	0.47
1:j:472:ASP:HA	1:k:270:ASN:ND2	2.29	0.47
1:k:265:THR:HG22	1:k:272:TYR:CE2	2.49	0.47
1:r:256:ASN:OD1	1:r:374:GLN:NE2	2.48	0.47
1:u:265:THR:HG22	1:u:272:TYR:CE2	2.49	0.47
1:u:302:ASN:OD1	1:1:302:ASN:ND2	2.48	0.47
1:v:491:PHE:CZ	1:v:509:LEU:HD11	2.50	0.47
1:w:270:ASN:ND2	1:y:472:ASP:HA	2.29	0.47
1:z:630:HIS:O	1:2:428:HIS:HE1	1.97	0.47
1:z:699:LYS:HG3	1:1:400:PHE:CZ	2.49	0.47
1:1:265:THR:HG22	1:1:272:TYR:CE2	2.49	0.47
1:8:256:ASN:OD1	1:8:374:GLN:NE2	2.48	0.47
1:A:302:ASN:ND2	1:F:302:ASN:OD1	2.48	0.47
1:B:699:LYS:HG3	1:J:400:PHE:CZ	2.50	0.47
1:C:699:LYS:HG3	1:b:400:PHE:CZ	2.50	0.47
1:D:265:THR:HG22	1:D:272:TYR:CE2	2.49	0.47
1:D:270:ASN:ND2	1:P:472:ASP:HA	2.29	0.47
1:E:302:ASN:OD1	1:P:302:ASN:ND2	2.48	0.47
1:E:302:ASN:ND2	1:P:302:ASN:OD1	2.48	0.47
1:H:365:PHE:HB2	1:H:727:TYR:CD2	2.50	0.47
1:I:265:THR:HG22	1:I:272:TYR:CE2	2.49	0.47
1:J:302:ASN:OD1	1:K:302:ASN:ND2	2.48	0.47
1:L:527:PRO:HB2	1:L:616:ARG:NH2	2.30	0.47
1:S:265:THR:HG22	1:S:272:TYR:CE2	2.49	0.47
1:U:527:PRO:HB2	1:U:616:ARG:NH2	2.30	0.47
1:V:428:HIS:HE1	1:e:630:HIS:O	1.97	0.47
1:V:432:LEU:HB3	1:e:518:LEU:HD11	1.97	0.47
1:X:491:PHE:CZ	1:X:509:LEU:HD11	2.50	0.47
1:b:365:PHE:HB2	1:b:727:TYR:CD2	2.50	0.47
1:c:428:HIS:HE1	1:o:630:HIS:O	1.97	0.47
1:d:428:HIS:HE1	1:l:630:HIS:O	1.97	0.47
1:f:428:HIS:HE1	1:h:630:HIS:O	1.97	0.47
1:j:302:ASN:ND2	1:w:302:ASN:OD1	2.48	0.47
1:j:699:LYS:HG3	1:k:400:PHE:CZ	2.50	0.47
1:k:365:PHE:HB2	1:k:727:TYR:CD2	2.50	0.47
1:m:302:ASN:ND2	1:r:302:ASN:OD1	2.48	0.47
1:o:491:PHE:CZ	1:o:509:LEU:HD11	2.50	0.47
1:p:256:ASN:OD1	1:p:374:GLN:NE2	2.48	0.47
1:q:256:ASN:OD1	1:q:374:GLN:NE2	2.48	0.47
1:q:265:THR:HG22	1:q:272:TYR:CE2	2.49	0.47
1:r:609:PRO:HD3	1:s:607:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:527:PRO:HB2	1:s:616:ARG:NH2	2.30	0.47
1:t:491:PHE:CZ	1:t:509:LEU:HD11	2.50	0.47
1:u:699:LYS:HG3	1:v:400:PHE:CZ	2.50	0.47
1:v:302:ASN:OD1	1:y:302:ASN:ND2	2.48	0.47
1:v:365:PHE:HB2	1:v:727:TYR:CD2	2.50	0.47
1:w:609:PRO:HD3	1:x:607:ILE:HD11	1.97	0.47
1:1:472:ASP:HA	1:2:270:ASN:ND2	2.30	0.47
1:2:302:ASN:OD1	1:4:302:ASN:ND2	2.48	0.47
1:2:491:PHE:CZ	1:2:509:LEU:HD11	2.50	0.47
1:2:527:PRO:HB2	1:2:616:ARG:NH2	2.30	0.47
1:4:256:ASN:OD1	1:4:374:GLN:NE2	2.48	0.47
1:4:491:PHE:CZ	1:4:509:LEU:HD11	2.50	0.47
1:5:365:PHE:HB2	1:5:727:TYR:CD2	2.50	0.47
1:5:434:ARG:HA	1:5:434:ARG:HD3	1.49	0.47
1:6:434:ARG:HD3	1:6:434:ARG:HA	1.49	0.47
1:A:400:PHE:CZ	1:I:699:LYS:HG3	2.50	0.47
1:D:302:ASN:ND2	1:M:302:ASN:OD1	2.48	0.47
1:D:432:LEU:HB3	1:N:518:LEU:HD11	1.97	0.47
1:D:699:LYS:HG3	1:N:400:PHE:CZ	2.50	0.47
1:E:609:PRO:HD3	1:Q:607:ILE:HD11	1.97	0.47
1:G:365:PHE:HB2	1:G:727:TYR:CD2	2.50	0.47
1:G:491:PHE:CZ	1:G:509:LEU:HD11	2.50	0.47
1:J:491:PHE:CZ	1:J:509:LEU:HD11	2.50	0.47
1:J:527:PRO:HB2	1:J:616:ARG:NH2	2.30	0.47
1:K:630:HIS:O	1:8:428:HIS:HE1	1.97	0.47
1:O:607:ILE:HD11	1:n:609:PRO:HD3	1.97	0.47
1:R:256:ASN:OD1	1:R:374:GLN:NE2	2.48	0.47
1:R:365:PHE:HB2	1:R:727:TYR:CD2	2.50	0.47
1:S:302:ASN:OD1	1:T:302:ASN:ND2	2.48	0.47
1:S:434:ARG:HD3	1:S:434:ARG:HA	1.49	0.47
1:T:699:LYS:HG3	1:d:400:PHE:CZ	2.50	0.47
1:V:256:ASN:OD1	1:V:374:GLN:NE2	2.48	0.47
1:Z:428:HIS:HE1	1:4:630:HIS:O	1.97	0.47
1:Z:527:PRO:HB2	1:Z:616:ARG:NH2	2.30	0.47
1:c:518:LEU:HD11	1:p:432:LEU:HB3	1.97	0.47
1:d:609:PRO:HD3	1:l:607:ILE:HD11	1.97	0.47
1:f:365:PHE:HB2	1:f:727:TYR:CD2	2.50	0.47
1:g:400:PHE:CZ	1:h:699:LYS:HG3	2.50	0.47
1:h:302:ASN:OD1	1:k:302:ASN:ND2	2.48	0.47
1:i:518:LEU:HD11	1:k:432:LEU:HB3	1.97	0.47
1:j:302:ASN:OD1	1:w:302:ASN:ND2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:365:PHE:HB2	1:j:727:TYR:CD2	2.50	0.47
1:k:491:PHE:CZ	1:k:509:LEU:HD11	2.50	0.47
1:l:527:PRO:HB2	1:l:616:ARG:NH2	2.30	0.47
1:m:699:LYS:HG3	1:n:400:PHE:CZ	2.50	0.47
1:n:275:PHE:CE2	1:r:717:MET:CE	2.96	0.47
1:o:302:ASN:OD1	1:6:302:ASN:ND2	2.48	0.47
1:p:302:ASN:OD1	1:s:302:ASN:ND2	2.48	0.47
1:q:365:PHE:HB2	1:q:727:TYR:CD2	2.50	0.47
1:q:609:PRO:HD3	1:r:607:ILE:HD11	1.96	0.47
1:t:270:ASN:ND2	1:v:472:ASP:HA	2.29	0.47
1:t:428:HIS:HE1	1:u:630:HIS:O	1.97	0.47
1:z:300:ILE:HD12	1:z:737:PHE:CE2	2.49	0.47
1:z:527:PRO:HB2	1:z:616:ARG:NH2	2.30	0.47
1:2:434:ARG:HD3	1:2:434:ARG:HA	1.49	0.47
1:5:400:PHE:CZ	1:7:699:LYS:HG3	2.50	0.47
1:5:542:SER:OG	1:5:579:ASP:OD2	2.26	0.47
1:A:256:ASN:OD1	1:A:374:GLN:NE2	2.48	0.46
1:A:365:PHE:HB2	1:A:727:TYR:CD2	2.50	0.46
1:C:400:PHE:CZ	1:M:699:LYS:HG3	2.50	0.46
1:D:491:PHE:CZ	1:D:509:LEU:HD11	2.50	0.46
1:G:428:HIS:HE1	1:I:630:HIS:O	1.97	0.46
1:H:400:PHE:CZ	1:Y:699:LYS:HG3	2.50	0.46
1:L:300:ILE:HD12	1:L:737:PHE:CE2	2.49	0.46
1:L:491:PHE:CZ	1:L:509:LEU:HD11	2.50	0.46
1:M:365:PHE:HB2	1:M:727:TYR:CD2	2.50	0.46
1:M:630:HIS:O	1:b:428:HIS:HE1	1.97	0.46
1:N:348:TYR:OH	1:N:649:PRO:O	2.25	0.46
1:N:365:PHE:HB2	1:N:727:TYR:CD2	2.50	0.46
1:O:256:ASN:OD1	1:O:374:GLN:NE2	2.48	0.46
1:O:527:PRO:HB2	1:O:616:ARG:NH2	2.30	0.46
1:P:365:PHE:HB2	1:P:727:TYR:CD2	2.50	0.46
1:R:265:THR:HG22	1:R:272:TYR:CE2	2.49	0.46
1:R:609:PRO:HD3	1:S:607:ILE:HD11	1.96	0.46
1:S:432:LEU:HB3	1:U:518:LEU:HD11	1.97	0.46
1:T:491:PHE:CZ	1:T:509:LEU:HD11	2.50	0.46
1:V:270:ASN:ND2	1:X:472:ASP:HA	2.29	0.46
1:W:302:ASN:ND2	1:X:302:ASN:OD1	2.48	0.46
1:W:302:ASN:OD1	1:X:302:ASN:ND2	2.48	0.46
1:W:491:PHE:CZ	1:W:509:LEU:HD11	2.50	0.46
1:X:630:HIS:O	1:e:428:HIS:HE1	1.97	0.46
1:Y:265:THR:HG22	1:Y:272:TYR:CE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:365:PHE:HB2	1:c:727:TYR:CD2	2.50	0.46
1:c:630:HIS:O	1:p:428:HIS:HE1	1.97	0.46
1:e:365:PHE:HB2	1:e:727:TYR:CD2	2.50	0.46
1:f:348:TYR:OH	1:f:649:PRO:O	2.25	0.46
1:h:348:TYR:OH	1:h:649:PRO:O	2.25	0.46
1:i:365:PHE:HB2	1:i:727:TYR:CD2	2.50	0.46
1:i:400:PHE:CZ	1:k:699:LYS:HG3	2.50	0.46
1:i:699:LYS:HG3	1:j:400:PHE:CZ	2.50	0.46
1:k:348:TYR:OH	1:k:649:PRO:O	2.25	0.46
1:l:256:ASN:OD1	1:l:374:GLN:NE2	2.48	0.46
1:m:491:PHE:CZ	1:m:509:LEU:HD11	2.50	0.46
1:o:302:ASN:ND2	1:6:302:ASN:OD1	2.48	0.46
1:o:699:LYS:HG3	1:p:400:PHE:CZ	2.50	0.46
1:t:265:THR:HG22	1:t:272:TYR:CE2	2.49	0.46
1:v:256:ASN:OD1	1:v:374:GLN:NE2	2.48	0.46
1:v:302:ASN:ND2	1:y:302:ASN:OD1	2.48	0.46
1:z:365:PHE:HB2	1:z:727:TYR:CD2	2.50	0.46
1:A:609:PRO:HD3	1:G:607:ILE:HD11	1.96	0.46
1:B:302:ASN:ND2	1:I:302:ASN:OD1	2.48	0.46
1:C:365:PHE:HB2	1:C:727:TYR:CD2	2.50	0.46
1:F:607:ILE:HD11	1:Q:609:PRO:HD3	1.97	0.46
1:G:265:THR:HG22	1:G:272:TYR:CE2	2.49	0.46
1:H:609:PRO:HD3	1:W:607:ILE:HD11	1.96	0.46
1:L:365:PHE:HB2	1:L:727:TYR:CD2	2.50	0.46
1:N:699:LYS:HG3	1:P:400:PHE:CZ	2.50	0.46
1:Q:302:ASN:ND2	1:R:302:ASN:OD1	2.49	0.46
1:S:699:LYS:HG3	1:U:400:PHE:CZ	2.50	0.46
1:U:491:PHE:CZ	1:U:509:LEU:HD11	2.50	0.46
1:V:400:PHE:CZ	1:X:699:LYS:HG3	2.50	0.46
1:W:432:LEU:HB3	1:Y:518:LEU:HD11	1.97	0.46
1:X:275:PHE:CE2	1:f:717:MET:CE	2.95	0.46
1:Y:348:TYR:OH	1:Y:649:PRO:O	2.25	0.46
1:b:717:MET:CE	1:o:275:PHE:CE2	2.95	0.46
1:d:365:PHE:HB2	1:d:727:TYR:CD2	2.50	0.46
1:g:365:PHE:HB2	1:g:727:TYR:CD2	2.50	0.46
1:h:365:PHE:HB2	1:h:727:TYR:CD2	2.50	0.46
1:i:302:ASN:ND2	1:l:302:ASN:OD1	2.48	0.46
1:i:348:TYR:OH	1:i:649:PRO:O	2.25	0.46
1:n:255:TYR:OH	1:n:372:VAL:O	2.28	0.46
1:n:365:PHE:HB2	1:n:727:TYR:CD2	2.50	0.46
1:o:432:LEU:HB3	1:p:518:LEU:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:400:PHE:CZ	1:s:699:LYS:HG3	2.50	0.46
1:r:432:LEU:HB3	1:s:518:LEU:HD11	1.97	0.46
1:s:491:PHE:CZ	1:s:509:LEU:HD11	2.50	0.46
1:t:365:PHE:HB2	1:t:727:TYR:CD2	2.50	0.46
1:x:609:PRO:HD3	1:y:607:ILE:HD11	1.97	0.46
1:y:256:ASN:OD1	1:y:374:GLN:NE2	2.48	0.46
1:z:491:PHE:CZ	1:z:509:LEU:HD11	2.50	0.46
1:5:609:PRO:HD3	1:6:607:ILE:HD11	1.96	0.46
1:6:432:LEU:HB3	1:7:518:LEU:HD11	1.97	0.46
1:6:491:PHE:CZ	1:6:509:LEU:HD11	2.50	0.46
1:7:265:THR:HG22	1:7:272:TYR:CE2	2.49	0.46
1:8:527:PRO:HB2	1:8:616:ARG:NH2	2.30	0.46
1:A:472:ASP:HA	1:G:270:ASN:ND2	2.30	0.46
1:C:302:ASN:OD1	1:L:302:ASN:ND2	2.48	0.46
1:C:302:ASN:ND2	1:L:302:ASN:OD1	2.49	0.46
1:D:527:PRO:HB2	1:D:616:ARG:NH2	2.30	0.46
1:F:256:ASN:OD1	1:F:374:GLN:NE2	2.48	0.46
1:F:400:PHE:CZ	1:Q:699:LYS:HG3	2.50	0.46
1:G:302:ASN:ND2	1:H:302:ASN:OD1	2.48	0.46
1:G:302:ASN:OD1	1:H:302:ASN:ND2	2.48	0.46
1:H:432:LEU:HB3	1:W:518:LEU:HD11	1.98	0.46
1:I:256:ASN:OD1	1:I:374:GLN:NE2	2.48	0.46
1:J:365:PHE:HB2	1:J:727:TYR:CD2	2.50	0.46
1:K:348:TYR:OH	1:K:649:PRO:O	2.25	0.46
1:N:302:ASN:ND2	1:O:302:ASN:OD1	2.48	0.46
1:O:699:LYS:HG3	1:m:400:PHE:CZ	2.50	0.46
1:T:365:PHE:HB2	1:T:727:TYR:CD2	2.50	0.46
1:T:432:LEU:HB3	1:d:518:LEU:HD11	1.97	0.46
1:V:518:LEU:HD11	1:X:432:LEU:HB3	1.97	0.46
1:b:265:THR:HG22	1:b:272:TYR:CE2	2.49	0.46
1:b:717:MET:CE	1:o:275:PHE:HE2	2.28	0.46
1:g:302:ASN:OD1	1:z:302:ASN:ND2	2.48	0.46
1:h:491:PHE:CZ	1:h:509:LEU:HD11	2.50	0.46
1:h:717:MET:CE	1:i:275:PHE:HE2	2.29	0.46
1:j:434:ARG:HD3	1:j:434:ARG:HA	1.49	0.46
1:l:365:PHE:HB2	1:l:727:TYR:CD2	2.50	0.46
1:m:365:PHE:HB2	1:m:727:TYR:CD2	2.50	0.46
1:m:432:LEU:HB3	1:n:518:LEU:HD11	1.97	0.46
1:o:472:ASP:HA	1:p:270:ASN:ND2	2.29	0.46
1:q:527:PRO:HB2	1:q:616:ARG:NH2	2.30	0.46
1:q:699:LYS:HG3	1:r:400:PHE:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:302:ASN:OD1	1:5:302:ASN:ND2	2.48	0.46
1:t:607:ILE:HD11	1:v:609:PRO:HD3	1.96	0.46
1:u:302:ASN:ND2	1:1:302:ASN:OD1	2.48	0.46
1:u:389:THR:H	1:u:392:ASN:ND2	2.14	0.46
1:2:365:PHE:HB2	1:2:727:TYR:CD2	2.50	0.46
1:5:432:LEU:HB3	1:6:518:LEU:HD11	1.98	0.46
1:6:265:THR:HG22	1:6:272:TYR:CE2	2.49	0.46
1:7:348:TYR:OH	1:7:649:PRO:O	2.25	0.46
1:7:365:PHE:HB2	1:7:727:TYR:CD2	2.50	0.46
1:A:428:HIS:HE1	1:G:630:HIS:O	1.97	0.46
1:B:302:ASN:OD1	1:I:302:ASN:ND2	2.49	0.46
1:E:491:PHE:CZ	1:E:509:LEU:HD11	2.50	0.46
1:F:389:THR:H	1:F:392:ASN:ND2	2.14	0.46
1:J:302:ASN:ND2	1:K:302:ASN:OD1	2.48	0.46
1:M:275:PHE:HE2	1:c:717:MET:CE	2.28	0.46
1:M:491:PHE:CZ	1:M:509:LEU:HD11	2.50	0.46
1:M:717:MET:CE	1:N:275:PHE:HE2	2.29	0.46
1:O:365:PHE:HB2	1:O:727:TYR:CD2	2.50	0.46
1:O:717:MET:CE	1:P:275:PHE:HE2	2.29	0.46
1:R:527:PRO:HB2	1:R:616:ARG:NH2	2.30	0.46
1:R:699:LYS:HG3	1:S:400:PHE:CZ	2.50	0.46
1:T:400:PHE:CZ	1:l:699:LYS:HG3	2.50	0.46
1:U:365:PHE:HB2	1:U:727:TYR:CD2	2.50	0.46
1:U:717:MET:CE	1:e:275:PHE:HE2	2.28	0.46
1:W:265:THR:HG22	1:W:272:TYR:CE2	2.49	0.46
1:X:275:PHE:HE2	1:f:717:MET:CE	2.28	0.46
1:X:365:PHE:HB2	1:X:727:TYR:CD2	2.50	0.46
1:X:527:PRO:HB2	1:X:616:ARG:NH2	2.30	0.46
1:X:717:MET:CE	1:Y:275:PHE:HE2	2.29	0.46
1:Y:256:ASN:OD1	1:Y:374:GLN:NE2	2.48	0.46
1:Y:302:ASN:ND2	1:Z:302:ASN:OD1	2.48	0.46
1:c:699:LYS:HG3	1:o:400:PHE:CZ	2.50	0.46
1:e:717:MET:CE	1:h:275:PHE:HE2	2.28	0.46
1:f:389:THR:H	1:f:392:ASN:ND2	2.14	0.46
1:f:607:ILE:HD11	1:g:609:PRO:HD3	1.96	0.46
1:g:302:ASN:ND2	1:z:302:ASN:OD1	2.49	0.46
1:i:472:ASP:HA	1:j:270:ASN:ND2	2.30	0.46
1:j:275:PHE:HE2	1:l:717:MET:CE	2.29	0.46
1:k:527:PRO:HB2	1:k:616:ARG:NH2	2.30	0.46
1:o:365:PHE:HB2	1:o:727:TYR:CD2	2.50	0.46
1:o:527:PRO:HB2	1:o:616:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:717:MET:CE	1:7:275:PHE:HE2	2.29	0.46
1:s:365:PHE:HB2	1:s:727:TYR:CD2	2.50	0.46
1:t:302:ASN:ND2	1:5:302:ASN:OD1	2.48	0.46
1:u:256:ASN:OD1	1:u:374:GLN:NE2	2.48	0.46
1:y:389:THR:H	1:y:392:ASN:ND2	2.14	0.46
1:y:527:PRO:HB2	1:y:616:ARG:NH2	2.30	0.46
1:4:365:PHE:HB2	1:4:727:TYR:CD2	2.50	0.46
1:7:302:ASN:ND2	1:8:302:ASN:OD1	2.48	0.46
1:A:389:THR:H	1:A:392:ASN:ND2	2.14	0.46
1:A:518:LEU:HD11	1:I:432:LEU:HB3	1.97	0.46
1:C:607:ILE:HD11	1:M:609:PRO:HD3	1.97	0.46
1:D:348:TYR:OH	1:D:649:PRO:O	2.25	0.46
1:D:434:ARG:HA	1:D:434:ARG:HD3	1.49	0.46
1:F:527:PRO:HB2	1:F:616:ARG:NH2	2.30	0.46
1:H:699:LYS:HG3	1:W:400:PHE:CZ	2.50	0.46
1:I:389:THR:H	1:I:392:ASN:ND2	2.14	0.46
1:M:389:THR:H	1:M:392:ASN:ND2	2.14	0.46
1:O:275:PHE:HE2	1:d:717:MET:CE	2.29	0.46
1:S:527:PRO:HB2	1:S:616:ARG:NH2	2.30	0.46
1:S:609:PRO:HD3	1:U:607:ILE:HD11	1.97	0.46
1:X:400:PHE:CZ	1:e:699:LYS:HG3	2.50	0.46
1:Y:365:PHE:HB2	1:Y:727:TYR:CD2	2.50	0.46
1:Y:527:PRO:HB2	1:Y:616:ARG:NH2	2.30	0.46
1:Z:491:PHE:CZ	1:Z:509:LEU:HD11	2.50	0.46
1:a:302:ASN:ND2	1:3:302:ASN:OD1	2.48	0.46
1:b:348:TYR:OH	1:b:649:PRO:O	2.25	0.46
1:b:389:THR:H	1:b:392:ASN:ND2	2.14	0.46
1:f:265:THR:HG22	1:f:272:TYR:CE2	2.49	0.46
1:g:607:ILE:HD11	1:h:609:PRO:HD3	1.97	0.46
1:h:389:THR:H	1:h:392:ASN:ND2	2.14	0.46
1:l:275:PHE:HE2	1:n:717:MET:CE	2.29	0.46
1:r:389:THR:H	1:r:392:ASN:ND2	2.14	0.46
1:r:527:PRO:HB2	1:r:616:ARG:NH2	2.30	0.46
1:t:630:HIS:O	1:v:428:HIS:HE1	1.97	0.46
1:u:527:PRO:HB2	1:u:616:ARG:NH2	2.30	0.46
1:v:389:THR:H	1:v:392:ASN:ND2	2.14	0.46
1:w:432:LEU:HB3	1:x:518:LEU:HD11	1.97	0.46
1:w:491:PHE:CZ	1:w:509:LEU:HD11	2.50	0.46
1:x:699:LYS:HG3	1:y:400:PHE:CZ	2.50	0.46
1:y:542:SER:OG	1:y:579:ASP:OD2	2.26	0.46
1:1:699:LYS:HG3	1:2:400:PHE:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:302:ASN:ND2	1:4:302:ASN:OD1	2.48	0.46
1:4:389:THR:H	1:4:392:ASN:ND2	2.14	0.46
1:6:365:PHE:HB2	1:6:727:TYR:CD2	2.50	0.46
1:7:256:ASN:OD1	1:7:374:GLN:NE2	2.48	0.46
1:7:302:ASN:OD1	1:8:302:ASN:ND2	2.48	0.46
1:B:432:LEU:HB3	1:J:518:LEU:HD11	1.97	0.46
1:C:609:PRO:HD3	1:b:607:ILE:HD11	1.96	0.46
1:I:527:PRO:HB2	1:I:616:ARG:NH2	2.30	0.46
1:I:717:MET:CE	1:J:275:PHE:HE2	2.29	0.46
1:K:365:PHE:HB2	1:K:727:TYR:CD2	2.50	0.46
1:K:389:THR:H	1:K:392:ASN:ND2	2.14	0.46
1:K:432:LEU:HB3	1:a:518:LEU:HD11	1.97	0.46
1:N:472:ASP:HA	1:P:270:ASN:ND2	2.30	0.46
1:S:389:THR:H	1:S:392:ASN:ND2	2.14	0.46
1:T:717:MET:CE	1:U:275:PHE:HE2	2.28	0.46
1:W:365:PHE:HB2	1:W:727:TYR:CD2	2.50	0.46
1:X:518:LEU:HD11	1:e:432:LEU:HB3	1.98	0.46
1:Y:302:ASN:OD1	1:Z:302:ASN:ND2	2.48	0.46
1:Z:365:PHE:HB2	1:Z:727:TYR:CD2	2.50	0.46
1:Z:607:ILE:HD11	1:3:609:PRO:HD3	1.97	0.46
1:a:302:ASN:OD1	1:3:302:ASN:ND2	2.48	0.46
1:a:365:PHE:HB2	1:a:727:TYR:CD2	2.50	0.46
1:a:609:PRO:HD3	1:8:607:ILE:HD11	1.97	0.46
1:i:255:TYR:OH	1:i:372:VAL:O	2.28	0.46
1:l:491:PHE:CZ	1:l:509:LEU:HD11	2.50	0.46
1:u:717:MET:CE	1:2:275:PHE:HE2	2.29	0.46
1:w:527:PRO:HB2	1:w:616:ARG:NH2	2.30	0.46
1:3:365:PHE:HB2	1:3:727:TYR:CD2	2.50	0.46
1:5:699:LYS:HG3	1:6:400:PHE:CZ	2.50	0.46
1:7:527:PRO:HB2	1:7:616:ARG:NH2	2.30	0.46
1:8:365:PHE:HB2	1:8:727:TYR:CD2	2.50	0.46
1:8:491:PHE:CZ	1:8:509:LEU:HD11	2.50	0.46
1:B:400:PHE:CZ	1:L:699:LYS:HG3	2.50	0.46
1:B:609:PRO:HD3	1:J:607:ILE:HD11	1.96	0.46
1:C:389:THR:H	1:C:392:ASN:ND2	2.14	0.46
1:D:275:PHE:HE2	1:E:717:MET:CE	2.29	0.46
1:E:432:LEU:HB3	1:Q:518:LEU:HD11	1.97	0.46
1:E:527:PRO:HB2	1:E:616:ARG:NH2	2.30	0.46
1:J:432:LEU:HB3	1:L:518:LEU:HD11	1.97	0.46
1:J:631:THR:HG1	1:J:634[B]:HIS:HE2	1.54	0.46
1:N:432:LEU:HB3	1:P:518:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:491:PHE:CZ	1:O:509:LEU:HD11	2.50	0.46
1:O:609:PRO:HD3	1:m:607:ILE:HD11	1.97	0.46
1:T:607:ILE:HD11	1:l:609:PRO:HD3	1.97	0.46
1:V:358:GLN:HA	1:X:442:GLN:HA	1.98	0.46
1:c:432:LEU:HB3	1:o:518:LEU:HD11	1.98	0.46
1:g:348:TYR:OH	1:g:649:PRO:O	2.25	0.46
1:g:389:THR:H	1:g:392:ASN:ND2	2.14	0.46
1:j:432:LEU:HB3	1:k:518:LEU:HD11	1.98	0.46
1:k:389:THR:H	1:k:392:ASN:ND2	2.14	0.46
1:m:527:PRO:HB2	1:m:616:ARG:NH2	2.30	0.46
1:o:389:THR:H	1:o:392:ASN:ND2	2.14	0.46
1:o:442:GLN:HA	1:p:358:GLN:HA	1.98	0.46
1:s:615:ASN:HD21	1:s:636:HIS:HE1	1.64	0.46
1:w:434:ARG:HD3	1:w:434:ARG:HA	1.49	0.46
1:1:389:THR:H	1:1:392:ASN:ND2	2.14	0.46
1:3:389:THR:H	1:3:392:ASN:ND2	2.14	0.46
1:3:518:LEU:HD11	1:4:432:LEU:HB3	1.97	0.46
1:3:717:MET:CE	1:8:275:PHE:CE2	2.95	0.46
1:4:615:ASN:HD21	1:4:636:HIS:HE1	1.64	0.46
1:B:389:THR:H	1:B:392:ASN:ND2	2.14	0.46
1:D:255:TYR:OH	1:D:372:VAL:O	2.28	0.46
1:D:389:THR:H	1:D:392:ASN:ND2	2.14	0.46
1:D:518:LEU:HD11	1:P:432:LEU:HB3	1.98	0.46
1:F:542:SER:OG	1:F:579:ASP:OD2	2.26	0.46
1:J:434:ARG:HD3	1:J:434:ARG:HA	1.49	0.46
1:J:615:ASN:HD21	1:J:636:HIS:HE1	1.64	0.46
1:K:442:GLN:HG3	1:K:476:TYR:CE1	2.51	0.46
1:K:615:ASN:HD21	1:K:636:HIS:HE1	1.64	0.46
1:R:270:ASN:ND2	1:U:472:ASP:HA	2.30	0.46
1:R:491:PHE:CZ	1:R:509:LEU:HD11	2.50	0.46
1:S:467:LYS:NZ	1:U:359:GLU:OE2	2.41	0.46
1:S:717:MET:CE	1:d:275:PHE:HE2	2.29	0.46
1:T:527:PRO:HB2	1:T:616:ARG:NH2	2.30	0.46
1:X:389:THR:H	1:X:392:ASN:ND2	2.14	0.46
1:Y:389:THR:H	1:Y:392:ASN:ND2	2.14	0.46
1:Z:275:PHE:CE2	1:a:717:MET:CE	2.95	0.46
1:a:389:THR:H	1:a:392:ASN:ND2	2.14	0.46
1:i:432:LEU:HB3	1:j:518:LEU:HD11	1.98	0.46
1:k:275:PHE:HE2	1:w:717:MET:CE	2.29	0.46
1:n:275:PHE:HE2	1:r:717:MET:CE	2.29	0.46
1:p:275:PHE:HE2	1:6:717:MET:CE	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:491:PHE:CZ	1:q:509:LEU:HD11	2.50	0.46
1:u:432:LEU:HB3	1:v:518:LEU:HD11	1.97	0.46
1:x:365:PHE:HB2	1:x:727:TYR:CD2	2.50	0.46
1:z:518:LEU:HD11	1:2:432:LEU:HB3	1.97	0.46
1:z:615:ASN:HD21	1:z:636:HIS:HE1	1.64	0.46
1:4:348:TYR:OH	1:4:649:PRO:O	2.25	0.46
1:6:348:TYR:OH	1:6:649:PRO:O	2.25	0.46
1:C:432:LEU:HB3	1:b:518:LEU:HD11	1.97	0.46
1:D:279:TRP:CG	1:D:397:LEU:HD12	2.51	0.46
1:E:442:GLN:HG3	1:E:476:TYR:CE1	2.51	0.46
1:G:389:THR:H	1:G:392:ASN:ND2	2.14	0.46
1:G:442:GLN:HG3	1:G:476:TYR:CE1	2.51	0.46
1:G:717:MET:CE	1:W:275:PHE:HE2	2.29	0.46
1:J:442:GLN:HA	1:L:358:GLN:HA	1.98	0.46
1:L:717:MET:CE	1:b:275:PHE:HE2	2.29	0.46
1:N:255:TYR:OH	1:N:372:VAL:O	2.28	0.46
1:O:279:TRP:CG	1:O:397:LEU:HD12	2.51	0.46
1:Q:365:PHE:HB2	1:Q:727:TYR:CD2	2.50	0.46
1:R:432:LEU:HB3	1:S:518:LEU:HD11	1.98	0.46
1:R:442:GLN:HA	1:S:358:GLN:HA	1.98	0.46
1:S:279:TRP:CG	1:S:397:LEU:HD12	2.51	0.46
1:T:615:ASN:HD21	1:T:636:HIS:HE1	1.64	0.46
1:U:615:ASN:HD21	1:U:636:HIS:HE1	1.64	0.46
1:Z:442:GLN:HG3	1:Z:476:TYR:CE1	2.51	0.46
1:a:615:ASN:HD21	1:a:636:HIS:HE1	1.64	0.46
1:b:302:ASN:OD1	1:c:302:ASN:ND2	2.48	0.46
1:c:275:PHE:HE2	1:s:717:MET:CE	2.29	0.46
1:k:255:TYR:OH	1:k:372:VAL:O	2.28	0.46
1:k:279:TRP:CG	1:k:397:LEU:HD12	2.51	0.46
1:m:302:ASN:OD1	1:r:302:ASN:ND2	2.48	0.46
1:q:432:LEU:HB3	1:r:518:LEU:HD11	1.97	0.46
1:q:442:GLN:HA	1:r:358:GLN:HA	1.98	0.46
1:r:365:PHE:HB2	1:r:727:TYR:CD2	2.50	0.46
1:r:699:LYS:HG3	1:s:400:PHE:CZ	2.50	0.46
1:t:442:GLN:HG3	1:t:476:TYR:CE1	2.51	0.46
1:u:615:ASN:HD21	1:u:636:HIS:HE1	1.64	0.46
1:v:717:MET:CE	1:w:275:PHE:HE2	2.29	0.46
1:w:442:GLN:HG3	1:w:476:TYR:CE1	2.51	0.46
1:2:615:ASN:HD21	1:2:636:HIS:HE1	1.64	0.46
1:4:442:GLN:HG3	1:4:476:TYR:CE1	2.51	0.46
1:7:389:THR:H	1:7:392:ASN:ND2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:717:MET:CE	1:E:275:PHE:HE2	2.29	0.46
1:B:615:ASN:HD21	1:B:636:HIS:HE1	1.64	0.46
1:C:359:GLU:OE2	1:M:467:LYS:NZ	2.41	0.46
1:F:442:GLN:HG3	1:F:476:TYR:CE1	2.51	0.46
1:I:615:ASN:HD21	1:I:636:HIS:HE1	1.64	0.46
1:L:615:ASN:HD21	1:L:636:HIS:HE1	1.64	0.46
1:N:302:ASN:OD1	1:O:302:ASN:ND2	2.48	0.46
1:P:279:TRP:CG	1:P:397:LEU:HD12	2.51	0.46
1:P:442:GLN:HG3	1:P:476:TYR:CE1	2.51	0.46
1:Q:717:MET:CE	1:S:275:PHE:HE2	2.29	0.46
1:R:467:LYS:NZ	1:S:359:GLU:OE2	2.41	0.46
1:S:302:ASN:ND2	1:T:302:ASN:OD1	2.48	0.46
1:V:442:GLN:HG3	1:V:476:TYR:CE1	2.51	0.46
1:V:609:PRO:HD3	1:e:607:ILE:HD11	1.96	0.46
1:Y:279:TRP:CG	1:Y:397:LEU:HD12	2.52	0.46
1:Y:717:MET:CE	1:4:275:PHE:CE2	2.96	0.46
1:d:279:TRP:CG	1:d:397:LEU:HD12	2.51	0.46
1:e:302:ASN:ND2	1:f:302:ASN:OD1	2.48	0.46
1:f:275:PHE:HE2	1:z:717:MET:CE	2.29	0.46
1:f:518:LEU:HD11	1:g:432:LEU:HB3	1.97	0.46
1:j:279:TRP:CG	1:j:397:LEU:HD12	2.51	0.46
1:j:442:GLN:HA	1:k:358:GLN:HA	1.98	0.46
1:l:279:TRP:CG	1:l:397:LEU:HD12	2.51	0.46
1:m:615:ASN:HD21	1:m:636:HIS:HE1	1.64	0.46
1:n:279:TRP:CG	1:n:397:LEU:HD12	2.51	0.46
1:p:389:THR:H	1:p:392:ASN:ND2	2.14	0.46
1:r:279:TRP:CG	1:r:397:LEU:HD12	2.52	0.46
1:r:467:LYS:NZ	1:s:359:GLU:OE2	2.41	0.46
1:t:389:THR:H	1:t:392:ASN:ND2	2.14	0.46
1:u:275:PHE:HE2	1:5:717:MET:CE	2.29	0.46
1:y:442:GLN:HG3	1:y:476:TYR:CE1	2.51	0.46
1:z:358:GLN:HA	1:2:442:GLN:HA	1.98	0.46
1:1:609:PRO:HD3	1:2:607:ILE:HD11	1.97	0.46
1:2:631:THR:HG1	1:2:634[B]:HIS:HE2	1.55	0.46
1:3:615:ASN:HD21	1:3:636:HIS:HE1	1.64	0.46
1:6:279:TRP:CG	1:6:397:LEU:HD12	2.51	0.46
1:7:279:TRP:CG	1:7:397:LEU:HD12	2.52	0.46
1:8:442:GLN:HG3	1:8:476:TYR:CE1	2.51	0.46
1:C:279:TRP:CG	1:C:397:LEU:HD12	2.51	0.45
1:C:348:TYR:OH	1:C:649:PRO:O	2.25	0.45
1:D:358:GLN:HA	1:P:442:GLN:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:365:PHE:HB2	1:F:727:TYR:CD2	2.50	0.45
1:F:436:MET:SD	1:F:473:PHE:HD1	2.40	0.45
1:K:275:PHE:CE2	1:7:717:MET:CE	2.96	0.45
1:L:717:MET:CE	1:b:275:PHE:CE2	2.95	0.45
1:P:434:ARG:HD3	1:P:434:ARG:HA	1.49	0.45
1:Q:389:THR:H	1:Q:392:ASN:ND2	2.14	0.45
1:S:365:PHE:HB2	1:S:727:TYR:CD2	2.50	0.45
1:U:279:TRP:CG	1:U:397:LEU:HD12	2.51	0.45
1:V:275:PHE:HE2	1:W:717:MET:CE	2.29	0.45
1:W:279:TRP:CG	1:W:397:LEU:HD12	2.51	0.45
1:X:358:GLN:HA	1:e:442:GLN:HA	1.98	0.45
1:Y:615:ASN:HD21	1:Y:636:HIS:HE1	1.64	0.45
1:c:442:GLN:HA	1:o:358:GLN:HA	1.98	0.45
1:c:607:ILE:HD11	1:p:609:PRO:HD3	1.96	0.45
1:g:279:TRP:CG	1:g:397:LEU:HD12	2.51	0.45
1:g:359:GLU:OE2	1:h:467:LYS:NZ	2.41	0.45
1:g:615:ASN:HD21	1:g:636:HIS:HE1	1.64	0.45
1:i:359:GLU:OE2	1:k:467:LYS:NZ	2.42	0.45
1:j:442:GLN:HG3	1:j:476:TYR:CE1	2.51	0.45
1:j:717:MET:CE	1:x:275:PHE:HE2	2.29	0.45
1:m:279:TRP:CG	1:m:397:LEU:HD12	2.51	0.45
1:p:442:GLN:HG3	1:p:476:TYR:CE1	2.51	0.45
1:r:275:PHE:HE2	1:x:717:MET:CE	2.29	0.45
1:s:436:MET:SD	1:s:473:PHE:HD1	2.40	0.45
1:t:717:MET:CE	1:6:275:PHE:HE2	2.29	0.45
1:v:275:PHE:HE2	1:1:717:MET:CE	2.28	0.45
1:x:442:GLN:HA	1:y:358:GLN:HA	1.98	0.45
1:y:436:MET:SD	1:y:473:PHE:HD1	2.40	0.45
1:2:717:MET:CE	1:3:275:PHE:HE2	2.29	0.45
1:7:615:ASN:HD21	1:7:636:HIS:HE1	1.64	0.45
1:B:442:GLN:HG3	1:B:476:TYR:CE1	2.51	0.45
1:C:275:PHE:HE2	1:D:717:MET:CE	2.29	0.45
1:C:436:MET:SD	1:C:473:PHE:HD1	2.40	0.45
1:F:358:GLN:HA	1:Q:442:GLN:HA	1.98	0.45
1:H:717:MET:CE	1:I:275:PHE:HE2	2.29	0.45
1:J:389:THR:H	1:J:392:ASN:ND2	2.14	0.45
1:J:442:GLN:HG3	1:J:476:TYR:CE1	2.51	0.45
1:M:279:TRP:CG	1:M:397:LEU:HD12	2.51	0.45
1:N:389:THR:H	1:N:392:ASN:ND2	2.14	0.45
1:P:389:THR:H	1:P:392:ASN:ND2	2.14	0.45
1:P:717:MET:CE	1:Q:275:PHE:HE2	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:302:ASN:OD1	1:R:302:ASN:ND2	2.48	0.45
1:T:275:PHE:HE2	1:i:717:MET:CE	2.29	0.45
1:T:279:TRP:CG	1:T:397:LEU:HD12	2.52	0.45
1:V:389:THR:H	1:V:392:ASN:ND2	2.14	0.45
1:W:348:TYR:OH	1:W:649:PRO:O	2.25	0.45
1:W:442:GLN:HG3	1:W:476:TYR:CE1	2.51	0.45
1:Y:436:MET:SD	1:Y:473:PHE:HD1	2.40	0.45
1:Y:542:SER:OG	1:Y:579:ASP:OD2	2.26	0.45
1:c:615:ASN:HD21	1:c:636:HIS:HE1	1.64	0.45
1:d:432:LEU:HB3	1:l:518:LEU:HD11	1.98	0.45
1:d:436:MET:SD	1:d:473:PHE:HD1	2.39	0.45
1:d:442:GLN:HA	1:l:358:GLN:HA	1.98	0.45
1:e:615:ASN:HD21	1:e:636:HIS:HE1	1.64	0.45
1:g:275:PHE:HE2	1:k:717:MET:CE	2.29	0.45
1:g:717:MET:CE	1:1:275:PHE:HE2	2.29	0.45
1:h:279:TRP:CG	1:h:397:LEU:HD12	2.51	0.45
1:h:302:ASN:ND2	1:k:302:ASN:OD1	2.48	0.45
1:i:302:ASN:OD1	1:l:302:ASN:ND2	2.48	0.45
1:j:389:THR:H	1:j:392:ASN:ND2	2.14	0.45
1:k:442:GLN:HG3	1:k:476:TYR:CE1	2.51	0.45
1:m:389:THR:H	1:m:392:ASN:ND2	2.14	0.45
1:n:436:MET:SD	1:n:473:PHE:HD1	2.40	0.45
1:r:255:TYR:OH	1:r:372:VAL:O	2.28	0.45
1:s:279:TRP:CG	1:s:397:LEU:HD12	2.51	0.45
1:x:389:THR:H	1:x:392:ASN:ND2	2.14	0.45
1:x:442:GLN:HG3	1:x:476:TYR:CE1	2.51	0.45
1:y:365:PHE:HB2	1:y:727:TYR:CD2	2.50	0.45
1:z:442:GLN:HG3	1:z:476:TYR:CE1	2.51	0.45
1:1:432:LEU:HB3	1:2:518:LEU:HD11	1.98	0.45
1:1:442:GLN:HG3	1:1:476:TYR:CE1	2.51	0.45
1:2:389:THR:H	1:2:392:ASN:ND2	2.14	0.45
1:2:442:GLN:HG3	1:2:476:TYR:CE1	2.51	0.45
1:6:442:GLN:HG3	1:6:476:TYR:CE1	2.51	0.45
1:8:279:TRP:CG	1:8:397:LEU:HD12	2.51	0.45
1:A:275:PHE:CE2	1:B:717:MET:CE	2.96	0.45
1:A:442:GLN:HG3	1:A:476:TYR:CE1	2.51	0.45
1:C:518:LEU:HD11	1:M:432:LEU:HB3	1.97	0.45
1:C:615:ASN:HD21	1:C:636:HIS:HE1	1.64	0.45
1:D:442:GLN:HG3	1:D:476:TYR:CE1	2.51	0.45
1:E:434:ARG:HD3	1:E:434:ARG:HA	1.49	0.45
1:E:615:ASN:HD21	1:E:636:HIS:HE1	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:275:PHE:HE2	1:Z:717:MET:CE	2.29	0.45
1:H:389:THR:H	1:H:392:ASN:ND2	2.14	0.45
1:J:436:MET:SD	1:J:473:PHE:HD1	2.40	0.45
1:J:717:MET:CE	1:a:275:PHE:HE2	2.29	0.45
1:L:442:GLN:HG3	1:L:476:TYR:CE1	2.51	0.45
1:M:518:LEU:HD11	1:b:432:LEU:HB3	1.98	0.45
1:N:717:MET:CE	1:m:275:PHE:HE2	2.29	0.45
1:O:358:GLN:HA	1:n:442:GLN:HA	1.98	0.45
1:O:434:ARG:HA	1:O:434:ARG:HD3	1.49	0.45
1:Q:279:TRP:CG	1:Q:397:LEU:HD12	2.51	0.45
1:Q:442:GLN:HG3	1:Q:476:TYR:CE1	2.51	0.45
1:V:279:TRP:CG	1:V:397:LEU:HD12	2.51	0.45
1:V:467:LYS:NZ	1:e:359:GLU:OE2	2.41	0.45
1:Z:279:TRP:CG	1:Z:397:LEU:HD12	2.51	0.45
1:b:442:GLN:HG3	1:b:476:TYR:CE1	2.51	0.45
1:c:389:THR:H	1:c:392:ASN:ND2	2.14	0.45
1:d:302:ASN:OD1	1:n:302:ASN:ND2	2.48	0.45
1:f:275:PHE:CE2	1:z:717:MET:CE	2.95	0.45
1:f:434:ARG:HD3	1:f:434:ARG:HA	1.49	0.45
1:f:442:GLN:HG3	1:f:476:TYR:CE1	2.51	0.45
1:g:436:MET:SD	1:g:473:PHE:HD1	2.40	0.45
1:g:518:LEU:HD11	1:h:432:LEU:HB3	1.97	0.45
1:i:389:THR:H	1:i:392:ASN:ND2	2.14	0.45
1:i:436:MET:SD	1:i:473:PHE:HD1	2.40	0.45
1:m:717:MET:CE	1:s:275:PHE:HE2	2.29	0.45
1:p:279:TRP:CG	1:p:397:LEU:HD12	2.51	0.45
1:q:302:ASN:ND2	1:x:302:ASN:OD1	2.48	0.45
1:q:302:ASN:OD1	1:x:302:ASN:ND2	2.49	0.45
1:w:279:TRP:CG	1:w:397:LEU:HD12	2.51	0.45
1:1:615:ASN:HD21	1:1:636:HIS:HE1	1.64	0.45
1:5:279:TRP:CG	1:5:397:LEU:HD12	2.51	0.45
1:7:436:MET:SD	1:7:473:PHE:HD1	2.40	0.45
1:C:442:GLN:HA	1:b:358:GLN:HA	1.99	0.45
1:D:302:ASN:OD1	1:M:302:ASN:ND2	2.48	0.45
1:D:615:ASN:HD21	1:D:636:HIS:HE1	1.64	0.45
1:E:279:TRP:CG	1:E:397:LEU:HD12	2.51	0.45
1:E:389:THR:H	1:E:392:ASN:ND2	2.14	0.45
1:F:275:PHE:CE2	1:R:717:MET:CE	2.96	0.45
1:G:436:MET:SD	1:G:473:PHE:HD1	2.40	0.45
1:H:279:TRP:CG	1:H:397:LEU:HD12	2.51	0.45
1:H:442:GLN:HG3	1:H:476:TYR:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:615:ASN:HD21	1:H:636:HIS:HE1	1.64	0.45
1:K:717:MET:CE	1:L:275:PHE:HE2	2.29	0.45
1:L:542:SER:OG	1:L:579:ASP:OD2	2.26	0.45
1:M:442:GLN:HG3	1:M:476:TYR:CE1	2.51	0.45
1:O:518:LEU:HD11	1:n:432:LEU:HB3	1.98	0.45
1:R:389:THR:H	1:R:392:ASN:ND2	2.14	0.45
1:R:400:PHE:CZ	1:U:699:LYS:HG3	2.51	0.45
1:T:389:THR:H	1:T:392:ASN:ND2	2.14	0.45
1:U:436:MET:SD	1:U:473:PHE:HD1	2.40	0.45
1:X:434:ARG:HA	1:X:434:ARG:HD3	1.49	0.45
1:b:436:MET:SD	1:b:473:PHE:HD1	2.40	0.45
1:d:302:ASN:ND2	1:n:302:ASN:OD1	2.48	0.45
1:e:389:THR:H	1:e:392:ASN:ND2	2.14	0.45
1:f:432:LEU:HB3	1:h:518:LEU:HD11	1.98	0.45
1:h:442:GLN:HG3	1:h:476:TYR:CE1	2.51	0.45
1:k:615:ASN:HD21	1:k:636:HIS:HE1	1.64	0.45
1:o:279:TRP:CG	1:o:397:LEU:HD12	2.51	0.45
1:r:615:ASN:HD21	1:r:636:HIS:HE1	1.64	0.45
1:t:436:MET:SD	1:t:473:PHE:HD1	2.40	0.45
1:v:442:GLN:HG3	1:v:476:TYR:CE1	2.51	0.45
1:w:518:LEU:HD11	1:y:432:LEU:HB3	1.98	0.45
1:x:279:TRP:CG	1:x:397:LEU:HD12	2.51	0.45
1:z:542:SER:OG	1:z:579:ASP:OD2	2.26	0.45
1:2:436:MET:SD	1:2:473:PHE:HD1	2.40	0.45
1:3:436:MET:SD	1:3:473:PHE:HD1	2.39	0.45
1:5:275:PHE:HE2	1:8:717:MET:CE	2.29	0.45
1:5:615:ASN:HD21	1:5:636:HIS:HE1	1.64	0.45
1:7:442:GLN:HG3	1:7:476:TYR:CE1	2.51	0.45
1:F:279:TRP:CG	1:F:397:LEU:HD12	2.51	0.45
1:M:385:ASN:HD21	1:M:387:ASN:ND2	2.15	0.45
1:N:436:MET:SD	1:N:473:PHE:HD1	2.40	0.45
1:S:255:TYR:OH	1:S:372:VAL:O	2.28	0.45
1:W:609:PRO:HD3	1:Y:607:ILE:HD11	1.97	0.45
1:X:279:TRP:CG	1:X:397:LEU:HD12	2.51	0.45
1:Y:442:GLN:HG3	1:Y:476:TYR:CE1	2.51	0.45
1:Y:717:MET:CE	1:4:275:PHE:HE2	2.29	0.45
1:a:436:MET:SD	1:a:473:PHE:HD1	2.39	0.45
1:c:359:GLU:OE2	1:p:467:LYS:NZ	2.41	0.45
1:f:358:GLN:HA	1:g:442:GLN:HA	1.99	0.45
1:f:436:MET:SD	1:f:473:PHE:HD1	2.40	0.45
1:h:385:ASN:HD21	1:h:387:ASN:ND2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:436:MET:SD	1:k:473:PHE:HD1	2.40	0.45
1:l:442:GLN:HG3	1:l:476:TYR:CE1	2.51	0.45
1:n:389:THR:H	1:n:392:ASN:ND2	2.14	0.45
1:q:389:THR:H	1:q:392:ASN:ND2	2.14	0.45
1:t:385:ASN:HD21	1:t:387:ASN:ND2	2.15	0.45
1:w:615:ASN:HD21	1:w:636:HIS:HE1	1.64	0.45
1:x:432:LEU:HB3	1:y:518:LEU:HD11	1.97	0.45
1:z:262:ARG:HG2	1:4:722:ASP:C	2.42	0.45
1:z:275:PHE:HE2	1:4:717:MET:CE	2.29	0.45
1:1:279:TRP:CG	1:1:397:LEU:HD12	2.51	0.45
1:1:442:GLN:HA	1:2:358:GLN:HA	1.98	0.45
1:2:279:TRP:CG	1:2:397:LEU:HD12	2.51	0.45
1:4:434:ARG:HA	1:4:434:ARG:HD3	1.49	0.45
1:6:609:PRO:HD3	1:7:607:ILE:HD11	1.97	0.45
1:A:262:ARG:HG2	1:B:722:ASP:C	2.42	0.45
1:B:262:ARG:HG2	1:C:722:ASP:C	2.42	0.45
1:B:385:ASN:HD21	1:B:387:ASN:ND2	2.15	0.45
1:C:262:ARG:HG2	1:D:722:ASP:C	2.42	0.45
1:D:436:MET:SD	1:D:473:PHE:HD1	2.40	0.45
1:E:436:MET:SD	1:E:473:PHE:HD1	2.40	0.45
1:E:518:LEU:HD11	1:F:432:LEU:HB3	1.98	0.45
1:F:262:ARG:HG2	1:R:722:ASP:C	2.42	0.45
1:F:518:LEU:HD11	1:Q:432:LEU:HB3	1.97	0.45
1:G:385:ASN:HD21	1:G:387:ASN:ND2	2.15	0.45
1:H:385:ASN:HD21	1:H:387:ASN:ND2	2.15	0.45
1:H:518:LEU:HD11	1:Y:432:LEU:HB3	1.98	0.45
1:J:279:TRP:CG	1:J:397:LEU:HD12	2.52	0.45
1:K:358:GLN:HA	1:8:442:GLN:HA	1.98	0.45
1:K:722:ASP:C	1:L:262:ARG:HG2	2.42	0.45
1:N:279:TRP:CG	1:N:397:LEU:HD12	2.52	0.45
1:O:442:GLN:HG3	1:O:476:TYR:CE1	2.51	0.45
1:R:358:GLN:HA	1:U:442:GLN:HA	1.97	0.45
1:R:359:GLU:OE2	1:U:467:LYS:NZ	2.40	0.45
1:R:436:MET:SD	1:R:473:PHE:HD1	2.40	0.45
1:S:363:PRO:HD3	1:S:370:PHE:HB3	1.99	0.45
1:S:615:ASN:HD21	1:S:636:HIS:HE1	1.64	0.45
1:W:436:MET:SD	1:W:473:PHE:HD1	2.40	0.45
1:X:385:ASN:HD21	1:X:387:ASN:ND2	2.15	0.45
1:Z:385:ASN:HD21	1:Z:387:ASN:ND2	2.15	0.45
1:a:432:LEU:HB3	1:8:518:LEU:HD11	1.98	0.45
1:d:389:THR:H	1:d:392:ASN:ND2	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:442:GLN:HG3	1:d:476:TYR:CE1	2.51	0.45
1:g:262:ARG:HG2	1:k:722:ASP:C	2.42	0.45
1:n:442:GLN:HG3	1:n:476:TYR:CE1	2.51	0.45
1:o:385:ASN:HD21	1:o:387:ASN:ND2	2.15	0.45
1:o:442:GLN:HG3	1:o:476:TYR:CE1	2.51	0.45
1:q:436:MET:SD	1:q:473:PHE:HD1	2.40	0.45
1:q:518:LEU:HD11	1:s:432:LEU:HB3	1.97	0.45
1:q:717:MET:CE	1:y:275:PHE:CE2	2.95	0.45
1:w:385:ASN:HD21	1:w:387:ASN:ND2	2.15	0.45
1:w:389:THR:H	1:w:392:ASN:ND2	2.14	0.45
1:x:615:ASN:HD21	1:x:636:HIS:HE1	1.64	0.45
1:y:279:TRP:CG	1:y:397:LEU:HD12	2.51	0.45
1:4:279:TRP:CG	1:4:397:LEU:HD12	2.51	0.45
1:5:385:ASN:HD21	1:5:387:ASN:ND2	2.15	0.45
1:5:389:THR:H	1:5:392:ASN:ND2	2.14	0.45
1:5:442:GLN:HG3	1:5:476:TYR:CE1	2.51	0.45
1:6:436:MET:SD	1:6:473:PHE:HD1	2.40	0.45
1:7:636:HIS:O	1:7:638:SER:N	2.47	0.45
1:A:358:GLN:HA	1:I:442:GLN:HA	1.99	0.45
1:A:385:ASN:HD21	1:A:387:ASN:ND2	2.15	0.45
1:A:722:ASP:C	1:E:262:ARG:HG2	2.42	0.45
1:B:275:PHE:HE2	1:C:717:MET:CE	2.29	0.45
1:C:442:GLN:HG3	1:C:476:TYR:CE1	2.51	0.45
1:E:385:ASN:HD21	1:E:387:ASN:ND2	2.15	0.45
1:K:279:TRP:CG	1:K:397:LEU:HD12	2.51	0.45
1:K:518:LEU:HD11	1:8:432:LEU:HB3	1.97	0.45
1:M:615:ASN:HD21	1:M:636:HIS:HE1	1.64	0.45
1:Q:615:ASN:HD21	1:Q:636:HIS:HE1	1.64	0.45
1:S:442:GLN:HA	1:U:358:GLN:HA	1.98	0.45
1:U:389:THR:H	1:U:392:ASN:ND2	2.14	0.45
1:V:385:ASN:HD21	1:V:387:ASN:ND2	2.15	0.45
1:X:442:GLN:HG3	1:X:476:TYR:CE1	2.51	0.45
1:Z:436:MET:SD	1:Z:473:PHE:HD1	2.40	0.45
1:Z:442:GLN:HA	1:4:358:GLN:HA	1.98	0.45
1:a:385:ASN:HD21	1:a:387:ASN:ND2	2.15	0.45
1:e:442:GLN:HG3	1:e:476:TYR:CE1	2.51	0.45
1:h:615:ASN:HD21	1:h:636:HIS:HE1	1.64	0.45
1:i:279:TRP:CG	1:i:397:LEU:HD12	2.52	0.45
1:n:385:ASN:HD21	1:n:387:ASN:ND2	2.15	0.45
1:p:385:ASN:HD21	1:p:387:ASN:ND2	2.15	0.45
1:r:363:PRO:HD3	1:r:370:PHE:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:518:LEU:HD11	1:v:432:LEU:HB3	1.98	0.45
1:u:442:GLN:HA	1:v:358:GLN:HA	1.98	0.45
1:v:255:TYR:OH	1:v:372:VAL:O	2.28	0.45
1:v:385:ASN:HD21	1:v:387:ASN:ND2	2.15	0.45
1:w:436:MET:SD	1:w:473:PHE:HD1	2.40	0.45
1:3:385:ASN:HD21	1:3:387:ASN:ND2	2.15	0.45
1:5:518:LEU:HD11	1:7:432:LEU:HB3	1.98	0.45
1:6:442:GLN:HA	1:7:358:GLN:HA	1.99	0.45
1:8:385:ASN:HD21	1:8:387:ASN:ND2	2.15	0.45
1:8:436:MET:SD	1:8:473:PHE:HD1	2.40	0.45
1:B:279:TRP:CG	1:B:397:LEU:HD12	2.52	0.45
1:B:363:PRO:HD3	1:B:370:PHE:HB3	1.99	0.45
1:C:385:ASN:HD21	1:C:387:ASN:ND2	2.15	0.45
1:G:279:TRP:CG	1:G:397:LEU:HD12	2.52	0.45
1:G:722:ASP:C	1:W:262:ARG:HG2	2.42	0.45
1:H:501:ILE:H	1:Y:450:THR:HG1	1.61	0.45
1:R:442:GLN:HG3	1:R:476:TYR:CE1	2.51	0.45
1:S:436:MET:SD	1:S:473:PHE:HD1	2.40	0.45
1:V:262:ARG:HG2	1:W:722:ASP:C	2.42	0.45
1:W:442:GLN:HA	1:Y:358:GLN:HA	1.99	0.45
1:Y:385:ASN:HD21	1:Y:387:ASN:ND2	2.15	0.45
1:Z:432:LEU:HB3	1:4:518:LEU:HD11	1.97	0.45
1:Z:518:LEU:HD11	1:3:432:LEU:HB3	1.98	0.45
1:b:615:ASN:HD21	1:b:636:HIS:HE1	1.64	0.45
1:d:385:ASN:HD21	1:d:387:ASN:ND2	2.15	0.45
1:f:615:ASN:HD21	1:f:636:HIS:HE1	1.64	0.45
1:i:442:GLN:HA	1:j:358:GLN:HA	1.98	0.45
1:j:615:ASN:HD21	1:j:636:HIS:HE1	1.64	0.45
1:p:615:ASN:HD21	1:p:636:HIS:HE1	1.64	0.45
1:q:722:ASP:C	1:y:262:ARG:HG2	2.42	0.45
1:r:442:GLN:HA	1:s:358:GLN:HA	1.98	0.45
1:t:722:ASP:C	1:6:262:ARG:HG2	2.42	0.45
1:1:363:PRO:HD3	1:1:370:PHE:HB3	1.99	0.45
1:3:279:TRP:CG	1:3:397:LEU:HD12	2.51	0.45
1:3:542:SER:OG	1:3:579:ASP:OD2	2.26	0.45
1:5:436:MET:SD	1:5:473:PHE:HD1	2.40	0.45
1:6:389:THR:H	1:6:392:ASN:ND2	2.14	0.45
1:7:385:ASN:HD21	1:7:387:ASN:ND2	2.15	0.45
1:8:389:THR:H	1:8:392:ASN:ND2	2.14	0.45
1:A:442:GLN:HA	1:G:358:GLN:HA	1.98	0.45
1:E:358:GLN:HA	1:F:442:GLN:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:363:PRO:HD3	1:F:370:PHE:HB3	1.99	0.45
1:H:358:GLN:HA	1:Y:442:GLN:HA	1.98	0.45
1:H:436:MET:SD	1:H:473:PHE:HD1	2.40	0.45
1:M:436:MET:SD	1:M:473:PHE:HD1	2.40	0.45
1:N:363:PRO:HD3	1:N:370:PHE:HB3	1.99	0.45
1:O:432:LEU:HB3	1:m:518:LEU:HD11	1.97	0.45
1:P:615:ASN:HD21	1:P:636:HIS:HE1	1.64	0.45
1:R:262:ARG:HG2	1:V:722:ASP:C	2.42	0.45
1:T:442:GLN:HG3	1:T:476:TYR:CE1	2.51	0.45
1:U:442:GLN:HG3	1:U:476:TYR:CE1	2.51	0.45
1:a:279:TRP:CG	1:a:397:LEU:HD12	2.51	0.45
1:b:279:TRP:CG	1:b:397:LEU:HD12	2.51	0.45
1:c:442:GLN:HG3	1:c:476:TYR:CE1	2.51	0.45
1:d:636:HIS:O	1:d:638:SER:N	2.47	0.45
1:g:385:ASN:HD21	1:g:387:ASN:ND2	2.15	0.45
1:g:442:GLN:HG3	1:g:476:TYR:CE1	2.51	0.45
1:i:363:PRO:HD3	1:i:370:PHE:HB3	1.99	0.45
1:l:434:ARG:HA	1:l:434:ARG:HD3	1.49	0.45
1:m:442:GLN:HG3	1:m:476:TYR:CE1	2.51	0.45
1:p:722:ASP:C	1:q:262:ARG:HG2	2.42	0.45
1:q:717:MET:CE	1:y:275:PHE:HE2	2.29	0.45
1:s:389:THR:H	1:s:392:ASN:ND2	2.14	0.45
1:s:442:GLN:HG3	1:s:476:TYR:CE1	2.51	0.45
1:t:279:TRP:CG	1:t:397:LEU:HD12	2.51	0.45
1:v:722:ASP:C	1:w:262:ARG:HG2	2.42	0.45
1:w:358:GLN:HA	1:y:442:GLN:HA	1.98	0.45
1:y:363:PRO:HD3	1:y:370:PHE:HB3	1.99	0.45
1:y:636:HIS:O	1:y:638:SER:N	2.47	0.45
1:z:389:THR:H	1:z:392:ASN:ND2	2.14	0.45
1:1:385:ASN:HD21	1:1:387:ASN:ND2	2.15	0.45
1:3:442:GLN:HG3	1:3:476:TYR:CE1	2.51	0.45
1:5:358:GLN:HA	1:7:442:GLN:HA	1.98	0.45
1:A:363:PRO:HD3	1:A:370:PHE:HB3	1.99	0.45
1:B:442:GLN:HA	1:J:358:GLN:HA	1.98	0.45
1:H:262:ARG:HG2	1:Z:722:ASP:C	2.42	0.45
1:H:363:PRO:HD3	1:H:370:PHE:HB3	1.99	0.45
1:K:262:ARG:HG2	1:7:722:ASP:C	2.42	0.45
1:N:385:ASN:HD21	1:N:387:ASN:ND2	2.15	0.45
1:N:442:GLN:HA	1:P:358:GLN:HA	1.98	0.45
1:O:436:MET:SD	1:O:473:PHE:HD1	2.40	0.45
1:P:385:ASN:HD21	1:P:387:ASN:ND2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:436:MET:SD	1:Q:473:PHE:HD1	2.40	0.45
1:S:722:ASP:C	1:d:262:ARG:HG2	2.42	0.45
1:T:358:GLN:HA	1:l:442:GLN:HA	1.98	0.45
1:T:518:LEU:HD11	1:l:432:LEU:HB3	1.97	0.45
1:V:615:ASN:HD21	1:V:636:HIS:HE1	1.64	0.45
1:W:389:THR:H	1:W:392:ASN:ND2	2.14	0.45
1:X:348:TYR:OH	1:X:649:PRO:O	2.25	0.45
1:X:436:MET:SD	1:X:473:PHE:HD1	2.40	0.45
1:Y:722:ASP:C	1:4:262:ARG:HG2	2.42	0.45
1:Z:275:PHE:HE2	1:a:717:MET:CE	2.29	0.45
1:Z:358:GLN:HA	1:3:442:GLN:HA	1.98	0.45
1:Z:389:THR:H	1:Z:392:ASN:ND2	2.14	0.45
1:a:442:GLN:HG3	1:a:476:TYR:CE1	2.51	0.45
1:f:279:TRP:CG	1:f:397:LEU:HD12	2.52	0.45
1:f:442:GLN:HA	1:h:358:GLN:HA	1.98	0.45
1:h:436:MET:SD	1:h:473:PHE:HD1	2.40	0.45
1:j:385:ASN:HD21	1:j:387:ASN:ND2	2.15	0.45
1:j:436:MET:SD	1:j:473:PHE:HD1	2.40	0.45
1:k:385:ASN:HD21	1:k:387:ASN:ND2	2.15	0.45
1:m:436:MET:SD	1:m:473:PHE:HD1	2.40	0.45
1:n:262:ARG:HG2	1:r:722:ASP:C	2.42	0.45
1:o:436:MET:SD	1:o:473:PHE:HD1	2.40	0.45
1:p:262:ARG:HG2	1:6:722:ASP:C	2.42	0.45
1:q:442:GLN:HG3	1:q:476:TYR:CE1	2.51	0.45
1:r:436:MET:SD	1:r:473:PHE:HD1	2.40	0.45
1:u:275:PHE:HE2	1:5:717:MET:HE3	1.81	0.45
1:u:436:MET:SD	1:u:473:PHE:HD1	2.40	0.45
1:v:363:PRO:HD3	1:v:370:PHE:HB3	1.99	0.45
1:z:385:ASN:HD21	1:z:387:ASN:ND2	2.15	0.45
1:5:262:ARG:HG2	1:8:722:ASP:C	2.42	0.45
1:8:363:PRO:HD3	1:8:370:PHE:HB3	1.99	0.45
1:A:432:LEU:HB3	1:G:518:LEU:HD11	1.98	0.44
1:C:358:GLN:HA	1:M:442:GLN:HA	1.98	0.44
1:D:385:ASN:HD21	1:D:387:ASN:ND2	2.15	0.44
1:F:275:PHE:HE2	1:R:717:MET:CE	2.29	0.44
1:I:436:MET:SD	1:I:473:PHE:HD1	2.40	0.44
1:J:385:ASN:HD21	1:J:387:ASN:ND2	2.15	0.44
1:K:363:PRO:HD3	1:K:370:PHE:HB3	1.99	0.44
1:K:436:MET:SD	1:K:473:PHE:HD1	2.40	0.44
1:L:385:ASN:HD21	1:L:387:ASN:ND2	2.15	0.44
1:L:389:THR:H	1:L:392:ASN:ND2	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:358:GLN:HA	1:b:442:GLN:HA	1.98	0.44
1:N:442:GLN:HG3	1:N:476:TYR:CE1	2.51	0.44
1:N:615:ASN:HD21	1:N:636:HIS:HE1	1.64	0.44
1:O:262:ARG:HG2	1:d:722:ASP:C	2.42	0.44
1:O:389:THR:H	1:O:392:ASN:ND2	2.14	0.44
1:O:442:GLN:HA	1:m:358:GLN:HA	1.98	0.44
1:P:436:MET:SD	1:P:473:PHE:HD1	2.40	0.44
1:R:385:ASN:HD21	1:R:387:ASN:ND2	2.15	0.44
1:T:436:MET:SD	1:T:473:PHE:HD1	2.40	0.44
1:U:302:ASN:OD1	1:V:302:ASN:ND2	2.48	0.44
1:V:436:MET:SD	1:V:473:PHE:HD1	2.40	0.44
1:Y:631:THR:HG1	1:Y:634[B]:HIS:HE2	1.61	0.44
1:Z:363:PRO:HD3	1:Z:370:PHE:HB3	1.99	0.44
1:a:442:GLN:HA	1:8:358:GLN:HA	1.98	0.44
1:a:450:THR:HG1	1:8:501:ILE:H	1.65	0.44
1:b:385:ASN:HD21	1:b:387:ASN:ND2	2.15	0.44
1:b:434:ARG:HA	1:b:434:ARG:HD3	1.49	0.44
1:c:262:ARG:HG2	1:s:722:ASP:C	2.42	0.44
1:c:385:ASN:HD21	1:c:387:ASN:ND2	2.15	0.44
1:e:385:ASN:HD21	1:e:387:ASN:ND2	2.15	0.44
1:g:358:GLN:HA	1:h:442:GLN:HA	1.98	0.44
1:g:722:ASP:C	1:1:262:ARG:HG2	2.42	0.44
1:l:262:ARG:HG2	1:n:722:ASP:C	2.42	0.44
1:l:436:MET:SD	1:l:473:PHE:HD1	2.40	0.44
1:n:636:HIS:O	1:n:638:SER:N	2.47	0.44
1:p:436:MET:SD	1:p:473:PHE:HD1	2.40	0.44
1:q:385:ASN:HD21	1:q:387:ASN:ND2	2.15	0.44
1:r:385:ASN:HD21	1:r:387:ASN:ND2	2.15	0.44
1:t:275:PHE:HE2	1:y:717:MET:CE	2.29	0.44
1:v:262:ARG:HG2	1:1:722:ASP:C	2.43	0.44
1:x:436:MET:SD	1:x:473:PHE:HD1	2.40	0.44
1:1:436:MET:SD	1:1:473:PHE:HD1	2.40	0.44
1:2:385:ASN:HD21	1:2:387:ASN:ND2	2.15	0.44
1:5:363:PRO:HD3	1:5:370:PHE:HB3	1.99	0.44
1:8:615:ASN:HD21	1:8:636:HIS:HE1	1.64	0.44
1:A:630:HIS:HD2	1:I:740:HIS:CD2	2.36	0.44
1:F:717:MET:CE	1:G:275:PHE:HE2	2.29	0.44
1:G:740:HIS:CD2	1:I:630:HIS:HD2	2.36	0.44
1:M:262:ARG:HG2	1:c:722:ASP:C	2.43	0.44
1:M:722:ASP:C	1:N:262:ARG:HG2	2.43	0.44
1:O:363:PRO:HD3	1:O:370:PHE:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:518:LEU:HD11	1:U:432:LEU:HB3	1.98	0.44
1:R:636:HIS:O	1:R:638:SER:N	2.47	0.44
1:S:385:ASN:HD21	1:S:387:ASN:ND2	2.15	0.44
1:S:442:GLN:HG3	1:S:476:TYR:CE1	2.51	0.44
1:T:363:PRO:HD3	1:T:370:PHE:HB3	1.99	0.44
1:U:542:SER:OG	1:U:579:ASP:OD2	2.26	0.44
1:W:385:ASN:HD21	1:W:387:ASN:ND2	2.15	0.44
1:Z:255:TYR:OH	1:Z:372:VAL:O	2.28	0.44
1:a:542:SER:OG	1:a:579:ASP:OD2	2.26	0.44
1:c:363:PRO:HD3	1:c:370:PHE:HB3	1.99	0.44
1:e:279:TRP:CG	1:e:397:LEU:HD12	2.52	0.44
1:e:363:PRO:HD3	1:e:370:PHE:HB3	1.99	0.44
1:e:722:ASP:C	1:h:262:ARG:HG2	2.43	0.44
1:f:385:ASN:HD21	1:f:387:ASN:ND2	2.15	0.44
1:i:385:ASN:HD21	1:i:387:ASN:ND2	2.15	0.44
1:i:615:ASN:HD21	1:i:636:HIS:HE1	1.64	0.44
1:l:363:PRO:HD3	1:l:370:PHE:HB3	1.99	0.44
1:l:389:THR:H	1:l:392:ASN:ND2	2.14	0.44
1:o:434:ARG:HD3	1:o:434:ARG:HA	1.49	0.44
1:t:636:HIS:O	1:t:638:SER:N	2.47	0.44
1:t:740:HIS:CD2	1:u:630:HIS:HD2	2.36	0.44
1:x:255:TYR:OH	1:x:372:VAL:O	2.28	0.44
1:z:432:LEU:HB3	1:1:518:LEU:HD11	1.97	0.44
1:2:348:TYR:OH	1:2:649:PRO:O	2.25	0.44
1:3:717:MET:CE	1:8:275:PHE:HE2	2.29	0.44
1:4:363:PRO:HD3	1:4:370:PHE:HB3	1.99	0.44
1:A:279:TRP:CG	1:A:397:LEU:HD12	2.51	0.44
1:B:358:GLN:HA	1:L:442:GLN:HA	1.98	0.44
1:B:518:LEU:HD11	1:L:432:LEU:HB3	1.97	0.44
1:B:630:HIS:HD2	1:L:740:HIS:CD2	2.35	0.44
1:H:717:MET:HE3	1:I:275:PHE:HE2	1.81	0.44
1:I:279:TRP:CG	1:I:397:LEU:HD12	2.51	0.44
1:L:607:ILE:HA	1:L:611:MET:SD	2.58	0.44
1:N:722:ASP:C	1:m:262:ARG:HG2	2.42	0.44
1:Q:434:ARG:HD3	1:Q:434:ARG:HA	1.49	0.44
1:T:262:ARG:HG2	1:i:722:ASP:C	2.42	0.44
1:V:363:PRO:HD3	1:V:370:PHE:HB3	1.99	0.44
1:X:615:ASN:HD21	1:X:636:HIS:HE1	1.64	0.44
1:Z:615:ASN:HD21	1:Z:636:HIS:HE1	1.64	0.44
1:c:279:TRP:CG	1:c:397:LEU:HD12	2.51	0.44
1:d:615:ASN:HD21	1:d:636:HIS:HE1	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:630:HIS:HD2	1:g:740:HIS:CD2	2.36	0.44
1:h:636:HIS:O	1:h:638:SER:N	2.47	0.44
1:h:722:ASP:C	1:i:262:ARG:HG2	2.43	0.44
1:i:442:GLN:HG3	1:i:476:TYR:CE1	2.51	0.44
1:i:630:HIS:HD2	1:k:740:HIS:CD2	2.36	0.44
1:m:363:PRO:HD3	1:m:370:PHE:HB3	1.99	0.44
1:n:615:ASN:HD21	1:n:636:HIS:HE1	1.64	0.44
1:o:615:ASN:HD21	1:o:636:HIS:HE1	1.64	0.44
1:p:302:ASN:ND2	1:s:302:ASN:OD1	2.48	0.44
1:p:363:PRO:HD3	1:p:370:PHE:HB3	1.99	0.44
1:r:740:HIS:CD2	1:s:630:HIS:HD2	2.35	0.44
1:t:359:GLU:OE2	1:v:467:LYS:NZ	2.41	0.44
1:u:279:TRP:CG	1:u:397:LEU:HD12	2.51	0.44
1:u:385:ASN:HD21	1:u:387:ASN:ND2	2.15	0.44
1:u:442:GLN:HG3	1:u:476:TYR:CE1	2.51	0.44
1:v:348:TYR:OH	1:v:649:PRO:O	2.25	0.44
1:v:615:ASN:HD21	1:v:636:HIS:HE1	1.64	0.44
1:z:607:ILE:HA	1:z:611:MET:SD	2.58	0.44
1:4:436:MET:SD	1:4:473:PHE:HD1	2.40	0.44
1:6:255:TYR:OH	1:6:372:VAL:O	2.28	0.44
1:6:385:ASN:HD21	1:6:387:ASN:ND2	2.15	0.44
1:6:615:ASN:HD21	1:6:636:HIS:HE1	1.64	0.44
1:A:275:PHE:HE2	1:B:717:MET:CE	2.29	0.44
1:A:607:ILE:HA	1:A:611:MET:SD	2.58	0.44
1:A:615:ASN:HD21	1:A:636:HIS:HE1	1.64	0.44
1:B:436:MET:SD	1:B:473:PHE:HD1	2.40	0.44
1:C:740:HIS:CD2	1:b:630:HIS:HD2	2.36	0.44
1:D:740:HIS:CD2	1:N:630:HIS:HD2	2.36	0.44
1:I:385:ASN:HD21	1:I:387:ASN:ND2	2.15	0.44
1:I:442:GLN:HG3	1:I:476:TYR:CE1	2.51	0.44
1:I:722:ASP:C	1:J:262:ARG:HG2	2.42	0.44
1:J:398:GLU:N	1:J:398:GLU:OE1	2.51	0.44
1:J:722:ASP:C	1:a:262:ARG:HG2	2.42	0.44
1:K:275:PHE:HE2	1:7:717:MET:CE	2.29	0.44
1:K:434:ARG:HD3	1:K:434:ARG:HA	1.49	0.44
1:O:722:ASP:C	1:P:262:ARG:HG2	2.42	0.44
1:Q:255:TYR:OH	1:Q:372:VAL:O	2.28	0.44
1:W:607:ILE:HA	1:W:611:MET:SD	2.58	0.44
1:W:615:ASN:HD21	1:W:636:HIS:HE1	1.64	0.44
1:X:262:ARG:HG2	1:f:722:ASP:C	2.43	0.44
1:b:363:PRO:HD3	1:b:370:PHE:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:722:ASP:C	1:o:262:ARG:HG2	2.43	0.44
1:c:436:MET:SD	1:c:473:PHE:HD1	2.40	0.44
1:d:398:GLU:OE1	1:d:398:GLU:N	2.51	0.44
1:d:607:ILE:HA	1:d:611:MET:SD	2.58	0.44
1:f:363:PRO:HD3	1:f:370:PHE:HB3	1.99	0.44
1:h:363:PRO:HD3	1:h:370:PHE:HB3	1.99	0.44
1:j:262:ARG:HG2	1:l:722:ASP:C	2.42	0.44
1:j:348:TYR:OH	1:j:649:PRO:O	2.25	0.44
1:m:442:GLN:HA	1:n:358:GLN:HA	1.98	0.44
1:n:398:GLU:OE1	1:n:398:GLU:N	2.51	0.44
1:n:607:ILE:HA	1:n:611:MET:SD	2.58	0.44
1:o:348:TYR:OH	1:o:649:PRO:O	2.25	0.44
1:q:636:HIS:O	1:q:638:SER:N	2.47	0.44
1:r:398:GLU:OE1	1:r:398:GLU:N	2.51	0.44
1:r:442:GLN:HG3	1:r:476:TYR:CE1	2.51	0.44
1:t:358:GLN:HA	1:v:442:GLN:HA	1.98	0.44
1:u:722:ASP:C	1:2:262:ARG:HG2	2.42	0.44
1:u:740:HIS:CD2	1:v:630:HIS:HD2	2.36	0.44
1:v:279:TRP:CG	1:v:397:LEU:HD12	2.52	0.44
1:y:615:ASN:HD21	1:y:636:HIS:HE1	1.64	0.44
1:z:279:TRP:CG	1:z:397:LEU:HD12	2.51	0.44
1:2:398:GLU:N	1:2:398:GLU:OE1	2.51	0.44
1:2:607:ILE:HA	1:2:611:MET:SD	2.58	0.44
1:2:722:ASP:C	1:3:262:ARG:HG2	2.42	0.44
1:6:607:ILE:HA	1:6:611:MET:SD	2.58	0.44
1:A:467:LYS:NZ	1:G:359:GLU:OE2	2.41	0.44
1:B:607:ILE:HA	1:B:611:MET:SD	2.58	0.44
1:F:615:ASN:HD21	1:F:636:HIS:HE1	1.64	0.44
1:G:542:SER:OG	1:G:579:ASP:OD2	2.26	0.44
1:G:607:ILE:HA	1:G:611:MET:SD	2.58	0.44
1:G:615:ASN:HD21	1:G:636:HIS:HE1	1.64	0.44
1:H:442:GLN:HA	1:W:358:GLN:HA	1.98	0.44
1:H:740:HIS:CD2	1:W:630:HIS:HD2	2.36	0.44
1:J:607:ILE:HA	1:J:611:MET:SD	2.58	0.44
1:K:607:ILE:HA	1:K:611:MET:SD	2.58	0.44
1:K:740:HIS:CD2	1:a:630:HIS:HD2	2.36	0.44
1:L:279:TRP:CG	1:L:397:LEU:HD12	2.52	0.44
1:M:359:GLU:OE2	1:b:467:LYS:NZ	2.41	0.44
1:M:363:PRO:HD3	1:M:370:PHE:HB3	1.99	0.44
1:M:636:HIS:O	1:M:638:SER:N	2.47	0.44
1:T:442:GLN:HA	1:d:358:GLN:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:255:TYR:OH	1:W:372:VAL:O	2.28	0.44
1:b:398:GLU:N	1:b:398:GLU:OE1	2.51	0.44
1:e:436:MET:SD	1:e:473:PHE:HD1	2.40	0.44
1:f:262:ARG:HG2	1:z:722:ASP:C	2.42	0.44
1:f:398:GLU:OE1	1:f:398:GLU:N	2.51	0.44
1:h:398:GLU:N	1:h:398:GLU:OE1	2.51	0.44
1:l:385:ASN:HD21	1:l:387:ASN:ND2	2.15	0.44
1:m:607:ILE:HA	1:m:611:MET:SD	2.58	0.44
1:q:359:GLU:OE2	1:s:467:LYS:NZ	2.41	0.44
1:q:630:HIS:HD2	1:s:740:HIS:CD2	2.35	0.44
1:r:607:ILE:HA	1:r:611:MET:SD	2.58	0.44
1:v:607:ILE:HA	1:v:611:MET:SD	2.58	0.44
1:3:630:HIS:HD2	1:4:740:HIS:CD2	2.36	0.44
1:4:607:ILE:HA	1:4:611:MET:SD	2.58	0.44
1:5:442:GLN:HA	1:6:358:GLN:HA	1.98	0.44
1:5:740:HIS:CD2	1:6:630:HIS:HD2	2.36	0.44
1:A:255:TYR:OH	1:A:372:VAL:O	2.28	0.44
1:A:348:TYR:OH	1:A:649:PRO:O	2.25	0.44
1:A:398:GLU:OE1	1:A:398:GLU:N	2.51	0.44
1:A:436:MET:SD	1:A:473:PHE:HD1	2.40	0.44
1:B:288:HIS:HD2	1:B:621:GLN:HA	1.83	0.44
1:C:363:PRO:HD3	1:C:370:PHE:HB3	1.99	0.44
1:D:262:ARG:HG2	1:E:722:ASP:C	2.42	0.44
1:E:740:HIS:CD2	1:Q:630:HIS:HD2	2.36	0.44
1:I:363:PRO:HD3	1:I:370:PHE:HB3	1.99	0.44
1:K:544:SER:O	1:K:616:ARG:NH2	2.51	0.44
1:L:722:ASP:C	1:b:262:ARG:HG2	2.42	0.44
1:M:398:GLU:N	1:M:398:GLU:OE1	2.51	0.44
1:O:385:ASN:HD21	1:O:387:ASN:ND2	2.15	0.44
1:O:615:ASN:HD21	1:O:636:HIS:HE1	1.64	0.44
1:O:740:HIS:CD2	1:m:630:HIS:HD2	2.35	0.44
1:R:544:SER:O	1:R:616:ARG:NH2	2.51	0.44
1:R:740:HIS:CD2	1:S:630:HIS:HD2	2.35	0.44
1:T:607:ILE:HA	1:T:611:MET:SD	2.58	0.44
1:T:740:HIS:CD2	1:d:630:HIS:HD2	2.36	0.44
1:U:363:PRO:HD3	1:U:370:PHE:HB3	1.99	0.44
1:V:630:HIS:HD2	1:X:740:HIS:CD2	2.36	0.44
1:W:398:GLU:OE1	1:W:398:GLU:N	2.51	0.44
1:X:722:ASP:C	1:Y:262:ARG:HG2	2.43	0.44
1:Y:544:SER:O	1:Y:616:ARG:NH2	2.51	0.44
1:c:288:HIS:HD2	1:c:621:GLN:HA	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:288:HIS:HD2	1:e:621:GLN:HA	1.83	0.44
1:k:262:ARG:HG2	1:w:722:ASP:C	2.42	0.44
1:l:615:ASN:HD21	1:l:636:HIS:HE1	1.64	0.44
1:o:740:HIS:CD2	1:p:630:HIS:HD2	2.36	0.44
1:p:607:ILE:HA	1:p:611:MET:SD	2.58	0.44
1:q:398:GLU:OE1	1:q:398:GLU:N	2.51	0.44
1:q:544:SER:O	1:q:616:ARG:NH2	2.51	0.44
1:t:542:SER:OG	1:t:579:ASP:OD2	2.26	0.44
1:t:607:ILE:HA	1:t:611:MET:SD	2.58	0.44
1:t:615:ASN:HD21	1:t:636:HIS:HE1	1.64	0.44
1:u:363:PRO:HD3	1:u:370:PHE:HB3	1.99	0.44
1:x:434:ARG:HD3	1:x:434:ARG:HA	1.49	0.44
1:z:363:PRO:HD3	1:z:370:PHE:HB3	1.99	0.44
1:z:436:MET:SD	1:z:473:PHE:HD1	2.40	0.44
1:4:544:SER:O	1:4:616:ARG:NH2	2.51	0.44
1:6:363:PRO:HD3	1:6:370:PHE:HB3	1.99	0.44
1:B:255:TYR:OH	1:B:372:VAL:O	2.28	0.44
1:I:607:ILE:HA	1:I:611:MET:SD	2.58	0.44
1:J:348:TYR:OH	1:J:649:PRO:O	2.25	0.44
1:J:467:LYS:NZ	1:L:359:GLU:OE2	2.41	0.44
1:K:385:ASN:HD21	1:K:387:ASN:ND2	2.15	0.44
1:L:363:PRO:HD3	1:L:370:PHE:HB3	1.99	0.44
1:L:436:MET:SD	1:L:473:PHE:HD1	2.40	0.44
1:N:398:GLU:OE1	1:N:398:GLU:N	2.51	0.44
1:P:441:ASP:OD1	1:P:470:THR:N	2.43	0.44
1:Q:288:HIS:HD2	1:Q:621:GLN:HA	1.83	0.44
1:R:275:PHE:HE2	1:V:717:MET:CE	2.29	0.44
1:R:398:GLU:N	1:R:398:GLU:OE1	2.51	0.44
1:R:607:ILE:HA	1:R:611:MET:SD	2.58	0.44
1:S:607:ILE:HA	1:S:611:MET:SD	2.58	0.44
1:T:630:HIS:HD2	1:l:740:HIS:CD2	2.35	0.44
1:V:607:ILE:HA	1:V:611:MET:SD	2.58	0.44
1:W:363:PRO:HD3	1:W:370:PHE:HB3	1.99	0.44
1:X:607:ILE:HA	1:X:611:MET:SD	2.58	0.44
1:f:255:TYR:OH	1:f:372:VAL:O	2.28	0.44
1:f:467:LYS:NZ	1:h:359:GLU:OE2	2.41	0.44
1:g:363:PRO:HD3	1:g:370:PHE:HB3	1.99	0.44
1:h:288:HIS:HD2	1:h:621:GLN:HA	1.83	0.44
1:i:398:GLU:OE1	1:i:398:GLU:N	2.51	0.44
1:j:441:ASP:OD1	1:j:470:THR:N	2.43	0.44
1:m:740:HIS:CD2	1:n:630:HIS:HD2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:607:ILE:HA	1:o:611:MET:SD	2.58	0.44
1:q:607:ILE:HA	1:q:611:MET:SD	2.58	0.44
1:s:363:PRO:HD3	1:s:370:PHE:HB3	1.99	0.44
1:t:288:HIS:HD2	1:t:621:GLN:HA	1.83	0.44
1:t:630:HIS:HD2	1:v:740:HIS:CD2	2.36	0.44
1:u:255:TYR:OH	1:u:372:VAL:O	2.28	0.44
1:u:607:ILE:HA	1:u:611:MET:SD	2.58	0.44
1:v:398:GLU:OE1	1:v:398:GLU:N	2.51	0.44
1:v:436:MET:SD	1:v:473:PHE:HD1	2.40	0.44
1:w:740:HIS:CD2	1:x:630:HIS:HD2	2.36	0.44
1:z:359:GLU:OE2	1:2:467:LYS:NZ	2.41	0.44
1:z:442:GLN:HA	1:1:358:GLN:HA	1.99	0.44
1:1:288:HIS:HD2	1:1:621:GLN:HA	1.83	0.44
1:1:607:ILE:HA	1:1:611:MET:SD	2.58	0.44
1:3:358:GLN:HA	1:4:442:GLN:HA	1.98	0.44
1:6:398:GLU:OE1	1:6:398:GLU:N	2.51	0.44
1:7:544:SER:O	1:7:616:ARG:NH2	2.51	0.44
1:A:740:HIS:CD2	1:G:630:HIS:HD2	2.36	0.44
1:C:607:ILE:HA	1:C:611:MET:SD	2.58	0.44
1:C:636:HIS:O	1:C:638:SER:N	2.47	0.44
1:D:363:PRO:HD3	1:D:370:PHE:HB3	1.99	0.44
1:E:636:HIS:O	1:E:638:SER:N	2.47	0.44
1:F:722:ASP:C	1:G:262:ARG:HG2	2.42	0.44
1:G:288:HIS:HD2	1:G:621:GLN:HA	1.83	0.44
1:G:544:SER:O	1:G:616:ARG:NH2	2.51	0.44
1:I:444:LEU:HD13	1:I:477:ARG:HG3	2.00	0.44
1:K:442:GLN:HA	1:a:358:GLN:HA	1.98	0.44
1:M:288:HIS:HD2	1:M:621:GLN:HA	1.83	0.44
1:O:288:HIS:CD2	1:O:621:GLN:HA	2.53	0.44
1:P:288:HIS:CD2	1:P:621:GLN:HA	2.53	0.44
1:Q:607:ILE:HA	1:Q:611:MET:SD	2.58	0.44
1:T:288:HIS:HD2	1:T:621:GLN:HA	1.83	0.44
1:V:442:GLN:HA	1:e:358:GLN:HA	1.99	0.44
1:Z:262:ARG:HG2	1:a:722:ASP:C	2.42	0.44
1:c:358:GLN:HA	1:p:442:GLN:HA	1.99	0.44
1:c:630:HIS:HD2	1:p:740:HIS:CD2	2.36	0.44
1:g:607:ILE:HA	1:g:611:MET:SD	2.58	0.44
1:j:288:HIS:CD2	1:j:621:GLN:HA	2.53	0.44
1:l:288:HIS:CD2	1:l:621:GLN:HA	2.53	0.44
1:m:288:HIS:HD2	1:m:621:GLN:HA	1.83	0.44
1:m:385:ASN:HD21	1:m:387:ASN:ND2	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:398:GLU:N	1:m:398:GLU:OE1	2.51	0.44
1:o:722:ASP:C	1:7:262:ARG:HG2	2.43	0.44
1:p:717:MET:CE	1:q:275:PHE:HE2	2.29	0.44
1:q:740:HIS:CD2	1:r:630:HIS:HD2	2.35	0.44
1:r:262:ARG:HG2	1:x:722:ASP:C	2.42	0.44
1:t:262:ARG:HG2	1:y:722:ASP:C	2.42	0.44
1:t:544:SER:O	1:t:616:ARG:NH2	2.51	0.44
1:u:398:GLU:N	1:u:398:GLU:OE1	2.51	0.44
1:x:288:HIS:HD2	1:x:621:GLN:HA	1.83	0.44
1:x:607:ILE:HA	1:x:611:MET:SD	2.58	0.44
1:1:255:TYR:OH	1:1:372:VAL:O	2.28	0.44
1:5:288:HIS:HD2	1:5:621:GLN:HA	1.83	0.44
1:6:740:HIS:CD2	1:7:630:HIS:HD2	2.36	0.44
1:8:288:HIS:HD2	1:8:621:GLN:HA	1.83	0.44
1:E:288:HIS:CD2	1:E:621:GLN:HA	2.53	0.44
1:F:607:ILE:HA	1:F:611:MET:SD	2.58	0.44
1:G:288:HIS:CD2	1:G:621:GLN:HA	2.53	0.44
1:G:363:PRO:HD3	1:G:370:PHE:HB3	1.99	0.44
1:H:288:HIS:HD2	1:H:621:GLN:HA	1.83	0.44
1:H:722:ASP:C	1:I:262:ARG:HG2	2.42	0.44
1:I:398:GLU:OE1	1:I:398:GLU:N	2.51	0.44
1:J:444:LEU:HD13	1:J:477:ARG:HG3	2.00	0.44
1:M:607:ILE:HA	1:M:611:MET:SD	2.58	0.44
1:O:607:ILE:HA	1:O:611:MET:SD	2.58	0.44
1:P:288:HIS:HD2	1:P:621:GLN:HA	1.83	0.44
1:Q:385:ASN:HD21	1:Q:387:ASN:ND2	2.15	0.44
1:R:279:TRP:CG	1:R:397:LEU:HD12	2.51	0.44
1:R:630:HIS:HD2	1:U:740:HIS:CD2	2.36	0.44
1:S:740:HIS:CD2	1:U:630:HIS:HD2	2.36	0.44
1:T:385:ASN:HD21	1:T:387:ASN:ND2	2.15	0.44
1:T:398:GLU:OE1	1:T:398:GLU:N	2.51	0.44
1:V:740:HIS:CD2	1:e:630:HIS:HD2	2.36	0.44
1:Z:288:HIS:HD2	1:Z:621:GLN:HA	1.83	0.44
1:Z:630:HIS:HD2	1:3:740:HIS:CD2	2.36	0.44
1:d:740:HIS:CD2	1:l:630:HIS:HD2	2.36	0.44
1:g:630:HIS:HD2	1:h:740:HIS:CD2	2.36	0.44
1:h:607:ILE:HA	1:h:611:MET:SD	2.58	0.44
1:i:358:GLN:HA	1:k:442:GLN:HA	1.99	0.44
1:j:288:HIS:HD2	1:j:621:GLN:HA	1.83	0.44
1:j:398:GLU:OE1	1:j:398:GLU:N	2.51	0.44
1:j:444:LEU:HD13	1:j:477:ARG:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:722:ASP:C	1:x:262:ARG:HG2	2.42	0.44
1:k:363:PRO:HD3	1:k:370:PHE:HB3	1.99	0.44
1:l:607:ILE:HA	1:l:611:MET:SD	2.58	0.44
1:q:279:TRP:CG	1:q:397:LEU:HD12	2.51	0.44
1:u:444:LEU:HD13	1:u:477:ARG:HG3	2.00	0.44
1:v:288:HIS:CD2	1:v:621:GLN:HA	2.53	0.44
1:x:385:ASN:HD21	1:x:387:ASN:ND2	2.15	0.44
1:x:444:LEU:HD13	1:x:477:ARG:HG3	2.00	0.44
1:y:385:ASN:HD21	1:y:387:ASN:ND2	2.15	0.44
1:y:607:ILE:HA	1:y:611:MET:SD	2.58	0.44
1:z:740:HIS:CD2	1:1:630:HIS:HD2	2.36	0.44
1:3:722:ASP:C	1:8:262:ARG:HG2	2.42	0.44
1:4:385:ASN:HD21	1:4:387:ASN:ND2	2.15	0.44
1:8:607:ILE:HA	1:8:611:MET:SD	2.58	0.44
1:A:288:HIS:HD2	1:A:621:GLN:HA	1.83	0.43
1:A:288:HIS:CD2	1:A:621:GLN:HA	2.53	0.43
1:A:427:ALA:O	1:A:739:THR:HA	2.18	0.43
1:B:288:HIS:CD2	1:B:621:GLN:HA	2.53	0.43
1:B:359:GLU:OE2	1:L:467:LYS:NZ	2.41	0.43
1:D:288:HIS:CD2	1:D:621:GLN:HA	2.53	0.43
1:D:398:GLU:OE1	1:D:398:GLU:N	2.51	0.43
1:D:442:GLN:HA	1:N:358:GLN:HA	1.99	0.43
1:D:607:ILE:HA	1:D:611:MET:SD	2.58	0.43
1:E:444:LEU:HD13	1:E:477:ARG:HG3	2.00	0.43
1:E:607:ILE:HA	1:E:611:MET:SD	2.58	0.43
1:H:398:GLU:OE1	1:H:398:GLU:N	2.51	0.43
1:I:255:TYR:OH	1:I:372:VAL:O	2.28	0.43
1:J:544:SER:O	1:J:616:ARG:NH2	2.51	0.43
1:M:427:ALA:O	1:M:739:THR:HA	2.18	0.43
1:O:398:GLU:OE1	1:O:398:GLU:N	2.51	0.43
1:O:630:HIS:HD2	1:n:740:HIS:CD2	2.36	0.43
1:O:668:PHE:CD1	1:d:373:PRO:HA	2.54	0.43
1:P:363:PRO:HD3	1:P:370:PHE:HB3	1.99	0.43
1:P:444:LEU:HD13	1:P:477:ARG:HG3	2.00	0.43
1:P:722:ASP:C	1:Q:262:ARG:HG2	2.42	0.43
1:Q:288:HIS:CD2	1:Q:621:GLN:HA	2.53	0.43
1:Q:444:LEU:HD13	1:Q:477:ARG:HG3	2.00	0.43
1:Q:722:ASP:C	1:S:262:ARG:HG2	2.42	0.43
1:R:363:PRO:HD3	1:R:370:PHE:HB3	1.99	0.43
1:R:515:HIS:NE2	1:U:585:GLN:HB2	2.33	0.43
1:R:615:ASN:HD21	1:R:636:HIS:HE1	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:398:GLU:OE1	1:S:398:GLU:N	2.51	0.43
1:S:427:ALA:O	1:S:739:THR:HA	2.18	0.43
1:U:398:GLU:N	1:U:398:GLU:OE1	2.51	0.43
1:U:607:ILE:HA	1:U:611:MET:SD	2.58	0.43
1:W:288:HIS:CD2	1:W:621:GLN:HA	2.53	0.43
1:W:740:HIS:CD2	1:Y:630:HIS:HD2	2.36	0.43
1:Z:398:GLU:N	1:Z:398:GLU:OE1	2.51	0.43
1:a:740:HIS:CD2	1:8:630:HIS:HD2	2.36	0.43
1:b:607:ILE:HA	1:b:611:MET:SD	2.58	0.43
1:c:398:GLU:OE1	1:c:398:GLU:N	2.51	0.43
1:e:398:GLU:N	1:e:398:GLU:OE1	2.51	0.43
1:f:607:ILE:HA	1:f:611:MET:SD	2.58	0.43
1:g:288:HIS:HD2	1:g:621:GLN:HA	1.83	0.43
1:g:636:HIS:O	1:g:638:SER:N	2.47	0.43
1:h:427:ALA:O	1:h:739:THR:HA	2.18	0.43
1:j:363:PRO:HD3	1:j:370:PHE:HB3	1.99	0.43
1:k:288:HIS:CD2	1:k:621:GLN:HA	2.53	0.43
1:l:668:PHE:CD1	1:n:373:PRO:HA	2.54	0.43
1:m:722:ASP:C	1:s:262:ARG:HG2	2.42	0.43
1:q:358:GLN:HA	1:s:442:GLN:HA	1.98	0.43
1:s:288:HIS:CD2	1:s:621:GLN:HA	2.53	0.43
1:s:398:GLU:OE1	1:s:398:GLU:N	2.51	0.43
1:t:288:HIS:CD2	1:t:621:GLN:HA	2.53	0.43
1:u:262:ARG:HG2	1:5:722:ASP:C	2.42	0.43
1:w:288:HIS:CD2	1:w:621:GLN:HA	2.53	0.43
1:w:444:LEU:HD13	1:w:477:ARG:HG3	2.00	0.43
1:1:288:HIS:CD2	1:1:621:GLN:HA	2.53	0.43
1:1:636:HIS:O	1:1:638:SER:N	2.47	0.43
1:2:444:LEU:HD13	1:2:477:ARG:HG3	2.00	0.43
1:5:398:GLU:OE1	1:5:398:GLU:N	2.51	0.43
1:8:398:GLU:OE1	1:8:398:GLU:N	2.51	0.43
1:B:444:LEU:HD13	1:B:477:ARG:HG3	2.00	0.43
1:B:636:HIS:O	1:B:638:SER:N	2.47	0.43
1:C:288:HIS:CD2	1:C:621:GLN:HA	2.53	0.43
1:C:288:HIS:HD2	1:C:621:GLN:HA	1.83	0.43
1:C:630:HIS:HD2	1:M:740:HIS:CD2	2.36	0.43
1:C:668:PHE:CD1	1:D:373:PRO:HA	2.53	0.43
1:E:398:GLU:N	1:E:398:GLU:OE1	2.51	0.43
1:F:385:ASN:HD21	1:F:387:ASN:ND2	2.15	0.43
1:G:398:GLU:OE1	1:G:398:GLU:N	2.51	0.43
1:K:398:GLU:OE1	1:K:398:GLU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:288:HIS:HD2	1:N:621:GLN:HA	1.83	0.43
1:P:398:GLU:OE1	1:P:398:GLU:N	2.51	0.43
1:P:607:ILE:HA	1:P:611:MET:SD	2.58	0.43
1:T:427:ALA:O	1:T:739:THR:HA	2.18	0.43
1:U:427:ALA:O	1:U:739:THR:HA	2.19	0.43
1:U:722:ASP:C	1:e:262:ARG:HG2	2.43	0.43
1:X:427:ALA:O	1:X:739:THR:HA	2.18	0.43
1:Y:288:HIS:CD2	1:Y:621:GLN:HA	2.53	0.43
1:Z:359:GLU:OE2	1:3:467:LYS:NZ	2.41	0.43
1:a:288:HIS:HD2	1:a:621:GLN:HA	1.83	0.43
1:b:255:TYR:OH	1:b:372:VAL:O	2.28	0.43
1:b:288:HIS:HD2	1:b:621:GLN:HA	1.83	0.43
1:d:288:HIS:CD2	1:d:621:GLN:HA	2.53	0.43
1:g:398:GLU:OE1	1:g:398:GLU:N	2.51	0.43
1:g:668:PHE:CD1	1:k:373:PRO:HA	2.53	0.43
1:h:444:LEU:HD13	1:h:477:ARG:HG3	2.00	0.43
1:h:544:SER:O	1:h:616:ARG:NH2	2.51	0.43
1:i:288:HIS:HD2	1:i:621:GLN:HA	1.83	0.43
1:j:427:ALA:O	1:j:739:THR:HA	2.18	0.43
1:k:398:GLU:OE1	1:k:398:GLU:N	2.51	0.43
1:k:607:ILE:HA	1:k:611:MET:SD	2.58	0.43
1:l:398:GLU:OE1	1:l:398:GLU:N	2.51	0.43
1:n:288:HIS:CD2	1:n:621:GLN:HA	2.53	0.43
1:q:288:HIS:CD2	1:q:621:GLN:HA	2.53	0.43
1:q:615:ASN:HD21	1:q:636:HIS:HE1	1.64	0.43
1:r:288:HIS:HD2	1:r:621:GLN:HA	1.83	0.43
1:r:427:ALA:O	1:r:739:THR:HA	2.18	0.43
1:s:427:ALA:O	1:s:739:THR:HA	2.18	0.43
1:s:607:ILE:HA	1:s:611:MET:SD	2.58	0.43
1:t:363:PRO:HD3	1:t:370:PHE:HB3	1.99	0.43
1:t:427:ALA:O	1:t:739:THR:HA	2.18	0.43
1:v:288:HIS:HD2	1:v:621:GLN:HA	1.83	0.43
1:v:427:ALA:O	1:v:739:THR:HA	2.18	0.43
1:v:444:LEU:HD13	1:v:477:ARG:HG3	2.00	0.43
1:w:607:ILE:HA	1:w:611:MET:SD	2.58	0.43
1:w:636:HIS:O	1:w:638:SER:N	2.47	0.43
1:x:288:HIS:CD2	1:x:621:GLN:HA	2.53	0.43
1:z:288:HIS:CD2	1:z:621:GLN:HA	2.53	0.43
1:1:398:GLU:OE1	1:1:398:GLU:N	2.51	0.43
1:1:444:LEU:HD13	1:1:477:ARG:HG3	2.00	0.43
1:2:544:SER:O	1:2:616:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:363:PRO:HD3	1:3:370:PHE:HB3	1.99	0.43
1:3:398:GLU:OE1	1:3:398:GLU:N	2.51	0.43
1:6:288:HIS:CD2	1:6:621:GLN:HA	2.53	0.43
1:7:441:ASP:OD1	1:7:470:THR:N	2.43	0.43
1:A:444:LEU:HD13	1:A:477:ARG:HG3	2.00	0.43
1:A:668:PHE:CD1	1:B:373:PRO:HA	2.53	0.43
1:B:398:GLU:N	1:B:398:GLU:OE1	2.51	0.43
1:C:398:GLU:OE1	1:C:398:GLU:N	2.51	0.43
1:D:444:LEU:HD13	1:D:477:ARG:HG3	2.00	0.43
1:G:373:PRO:HA	1:W:668:PHE:CD1	2.54	0.43
1:G:427:ALA:O	1:G:739:THR:HA	2.18	0.43
1:H:373:PRO:HA	1:I:668:PHE:CD1	2.53	0.43
1:L:288:HIS:CD2	1:L:621:GLN:HA	2.53	0.43
1:L:427:ALA:O	1:L:739:THR:HA	2.18	0.43
1:M:444:LEU:HD13	1:M:477:ARG:HG3	2.00	0.43
1:M:544:SER:O	1:M:616:ARG:NH2	2.51	0.43
1:N:288:HIS:CD2	1:N:621:GLN:HA	2.53	0.43
1:P:373:PRO:HA	1:Q:668:PHE:CD1	2.53	0.43
1:P:427:ALA:O	1:P:739:THR:HA	2.18	0.43
1:S:288:HIS:CD2	1:S:621:GLN:HA	2.53	0.43
1:S:585:GLN:HB2	1:U:515:HIS:NE2	2.33	0.43
1:U:288:HIS:CD2	1:U:621:GLN:HA	2.53	0.43
1:U:385:ASN:HD21	1:U:387:ASN:ND2	2.15	0.43
1:U:699:LYS:HA	1:U:699:LYS:HD2	1.84	0.43
1:U:703:PRO:HD3	1:V:293:PRO:HB2	2.00	0.43
1:X:363:PRO:HD3	1:X:370:PHE:HB3	1.99	0.43
1:X:441:ASP:OD1	1:X:470:THR:N	2.43	0.43
1:X:544:SER:O	1:X:616:ARG:NH2	2.51	0.43
1:Y:398:GLU:OE1	1:Y:398:GLU:N	2.51	0.43
1:Z:607:ILE:HA	1:Z:611:MET:SD	2.58	0.43
1:a:363:PRO:HD3	1:a:370:PHE:HB3	1.99	0.43
1:a:398:GLU:OE1	1:a:398:GLU:N	2.51	0.43
1:a:427:ALA:O	1:a:739:THR:HA	2.19	0.43
1:b:544:SER:O	1:b:616:ARG:NH2	2.51	0.43
1:d:363:PRO:HD3	1:d:370:PHE:HB3	1.99	0.43
1:f:544:SER:O	1:f:616:ARG:NH2	2.51	0.43
1:g:288:HIS:CD2	1:g:621:GLN:HA	2.53	0.43
1:g:373:PRO:HA	1:1:668:PHE:CD1	2.54	0.43
1:i:288:HIS:CD2	1:i:621:GLN:HA	2.53	0.43
1:j:373:PRO:HA	1:x:668:PHE:CD1	2.53	0.43
1:j:607:ILE:HA	1:j:611:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:427:ALA:O	1:m:739:THR:HA	2.18	0.43
1:n:363:PRO:HD3	1:n:370:PHE:HB3	1.99	0.43
1:o:288:HIS:HD2	1:o:621:GLN:HA	1.83	0.43
1:o:363:PRO:HD3	1:o:370:PHE:HB3	1.99	0.43
1:o:427:ALA:O	1:o:739:THR:HA	2.18	0.43
1:p:288:HIS:HD2	1:p:621:GLN:HA	1.83	0.43
1:q:363:PRO:HD3	1:q:370:PHE:HB3	1.99	0.43
1:q:542:SER:OG	1:q:579:ASP:OD2	2.26	0.43
1:r:288:HIS:CD2	1:r:621:GLN:HA	2.53	0.43
1:t:373:PRO:HA	1:6:668:PHE:CD1	2.54	0.43
1:u:668:PHE:CD1	1:5:373:PRO:HA	2.53	0.43
1:w:398:GLU:OE1	1:w:398:GLU:N	2.51	0.43
1:2:288:HIS:CD2	1:2:621:GLN:HA	2.53	0.43
1:3:288:HIS:HD2	1:3:621:GLN:HA	1.83	0.43
1:3:427:ALA:O	1:3:739:THR:HA	2.19	0.43
1:4:398:GLU:OE1	1:4:398:GLU:N	2.51	0.43
1:7:288:HIS:CD2	1:7:621:GLN:HA	2.53	0.43
1:7:427:ALA:O	1:7:739:THR:HA	2.19	0.43
1:7:631:THR:HG1	1:7:634[B]:HIS:HE2	1.62	0.43
1:B:668:PHE:CD1	1:C:373:PRO:HA	2.54	0.43
1:F:398:GLU:OE1	1:F:398:GLU:N	2.51	0.43
1:G:442:GLN:HA	1:I:358:GLN:HA	1.99	0.43
1:H:444:LEU:HD13	1:H:477:ARG:HG3	2.00	0.43
1:I:288:HIS:CD2	1:I:621:GLN:HA	2.53	0.43
1:J:363:PRO:HD3	1:J:370:PHE:HB3	1.99	0.43
1:K:427:ALA:O	1:K:739:THR:HA	2.18	0.43
1:K:668:PHE:CD1	1:7:373:PRO:HA	2.53	0.43
1:O:288:HIS:HD2	1:O:621:GLN:HA	1.83	0.43
1:O:444:LEU:HD13	1:O:477:ARG:HG3	2.00	0.43
1:Q:293:PRO:HB2	1:R:703:PRO:HD3	2.01	0.43
1:R:288:HIS:CD2	1:R:621:GLN:HA	2.53	0.43
1:S:288:HIS:HD2	1:S:621:GLN:HA	1.83	0.43
1:T:288:HIS:CD2	1:T:621:GLN:HA	2.53	0.43
1:V:288:HIS:HD2	1:V:621:GLN:HA	1.83	0.43
1:V:444:LEU:HD13	1:V:477:ARG:HG3	2.00	0.43
1:X:288:HIS:HD2	1:X:621:GLN:HA	1.83	0.43
1:Y:363:PRO:HD3	1:Y:370:PHE:HB3	1.99	0.43
1:Y:373:PRO:HA	1:4:668:PHE:CD1	2.53	0.43
1:Y:427:ALA:O	1:Y:739:THR:HA	2.19	0.43
1:a:444:LEU:HD13	1:a:477:ARG:HG3	2.00	0.43
1:e:607:ILE:HA	1:e:611:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:288:HIS:HD2	1:f:621:GLN:HA	1.83	0.43
1:i:607:ILE:HA	1:i:611:MET:SD	2.58	0.43
1:k:444:LEU:HD13	1:k:477:ARG:HG3	2.00	0.43
1:l:288:HIS:HD2	1:l:621:GLN:HA	1.83	0.43
1:l:444:LEU:HD13	1:l:477:ARG:HG3	2.00	0.43
1:m:288:HIS:CD2	1:m:621:GLN:HA	2.53	0.43
1:t:398:GLU:OE1	1:t:398:GLU:N	2.51	0.43
1:u:373:PRO:HA	1:2:668:PHE:CD1	2.53	0.43
1:u:636:HIS:O	1:u:638:SER:N	2.47	0.43
1:v:373:PRO:HA	1:w:668:PHE:CD1	2.53	0.43
1:y:398:GLU:OE1	1:y:398:GLU:N	2.51	0.43
1:z:398:GLU:OE1	1:z:398:GLU:N	2.51	0.43
1:z:427:ALA:O	1:z:739:THR:HA	2.19	0.43
1:4:288:HIS:CD2	1:4:621:GLN:HA	2.53	0.43
1:7:363:PRO:HD3	1:7:370:PHE:HB3	1.99	0.43
1:7:398:GLU:N	1:7:398:GLU:OE1	2.51	0.43
1:8:427:ALA:O	1:8:739:THR:HA	2.18	0.43
1:A:373:PRO:HA	1:E:668:PHE:CD1	2.53	0.43
1:F:630:HIS:HD2	1:Q:740:HIS:CD2	2.36	0.43
1:H:668:PHE:CD1	1:Z:373:PRO:HA	2.54	0.43
1:I:636:HIS:O	1:I:638:SER:N	2.47	0.43
1:J:288:HIS:CD2	1:J:621:GLN:HA	2.53	0.43
1:J:373:PRO:HA	1:a:668:PHE:CD1	2.54	0.43
1:K:288:HIS:CD2	1:K:621:GLN:HA	2.53	0.43
1:L:398:GLU:OE1	1:L:398:GLU:N	2.51	0.43
1:L:444:LEU:HD13	1:L:477:ARG:HG3	2.00	0.43
1:N:544:SER:O	1:N:616:ARG:NH2	2.51	0.43
1:S:373:PRO:HA	1:d:668:PHE:CD1	2.54	0.43
1:V:544:SER:O	1:V:616:ARG:NH2	2.51	0.43
1:Z:427:ALA:O	1:Z:739:THR:HA	2.18	0.43
1:b:444:LEU:HD13	1:b:477:ARG:HG3	2.00	0.43
1:c:668:PHE:CD1	1:s:373:PRO:HA	2.54	0.43
1:f:444:LEU:HD13	1:f:477:ARG:HG3	2.00	0.43
1:h:434:ARG:HD3	1:h:434:ARG:HA	1.49	0.43
1:i:544:SER:O	1:i:616:ARG:NH2	2.51	0.43
1:k:288:HIS:HD2	1:k:621:GLN:HA	1.83	0.43
1:o:441:ASP:OD1	1:o:470:THR:N	2.43	0.43
1:o:544:SER:O	1:o:616:ARG:NH2	2.51	0.43
1:p:544:SER:O	1:p:616:ARG:NH2	2.51	0.43
1:q:703:PRO:HD3	1:x:293:PRO:HB2	2.01	0.43
1:r:444:LEU:HD13	1:r:477:ARG:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:385:ASN:HD21	1:s:387:ASN:ND2	2.15	0.43
1:t:442:GLN:HA	1:u:358:GLN:HA	1.99	0.43
1:u:288:HIS:CD2	1:u:621:GLN:HA	2.53	0.43
1:w:363:PRO:HD3	1:w:370:PHE:HB3	1.99	0.43
1:w:427:ALA:O	1:w:739:THR:HA	2.18	0.43
1:x:363:PRO:HD3	1:x:370:PHE:HB3	1.99	0.43
1:x:740:HIS:CD2	1:y:630:HIS:HD2	2.36	0.43
1:z:467:LYS:NZ	1:1:359:GLU:OE2	2.42	0.43
1:2:363:PRO:HD3	1:2:370:PHE:HB3	1.99	0.43
1:2:373:PRO:HA	1:3:668:PHE:CD1	2.54	0.43
1:3:288:HIS:CD2	1:3:621:GLN:HA	2.53	0.43
1:3:444:LEU:HD13	1:3:477:ARG:HG3	2.00	0.43
1:3:607:ILE:HA	1:3:611:MET:SD	2.58	0.43
1:4:427:ALA:O	1:4:739:THR:HA	2.18	0.43
1:7:288:HIS:HD2	1:7:621:GLN:HA	1.83	0.43
1:B:427:ALA:O	1:B:739:THR:HA	2.18	0.43
1:E:363:PRO:HD3	1:E:370:PHE:HB3	1.99	0.43
1:E:427:ALA:O	1:E:739:THR:HA	2.18	0.43
1:F:288:HIS:CD2	1:F:621:GLN:HA	2.53	0.43
1:H:515:HIS:NE2	1:Y:585:GLN:HB2	2.34	0.43
1:H:544:SER:O	1:H:616:ARG:NH2	2.51	0.43
1:H:630:HIS:HD2	1:Y:740:HIS:CD2	2.36	0.43
1:I:373:PRO:HA	1:J:668:PHE:CD1	2.53	0.43
1:N:444:LEU:HD13	1:N:477:ARG:HG3	2.00	0.43
1:Q:363:PRO:HD3	1:Q:370:PHE:HB3	1.99	0.43
1:Q:398:GLU:OE1	1:Q:398:GLU:N	2.51	0.43
1:Q:427:ALA:O	1:Q:739:THR:HA	2.18	0.43
1:Q:542:SER:OG	1:Q:579:ASP:OD2	2.26	0.43
1:R:542:SER:OG	1:R:579:ASP:OD2	2.26	0.43
1:R:668:PHE:CD1	1:V:373:PRO:HA	2.54	0.43
1:S:444:LEU:HD13	1:S:477:ARG:HG3	2.00	0.43
1:W:427:ALA:O	1:W:739:THR:HA	2.19	0.43
1:X:288:HIS:CD2	1:X:621:GLN:HA	2.53	0.43
1:Y:288:HIS:HD2	1:Y:621:GLN:HA	1.83	0.43
1:Y:607:ILE:HA	1:Y:611:MET:SD	2.58	0.43
1:a:607:ILE:HA	1:a:611:MET:SD	2.58	0.43
1:b:703:PRO:HD3	1:c:293:PRO:HB2	2.01	0.43
1:d:544:SER:O	1:d:616:ARG:NH2	2.51	0.43
1:e:293:PRO:HB2	1:f:703:PRO:HD3	2.01	0.43
1:m:467:LYS:NZ	1:n:359:GLU:OE2	2.41	0.43
1:n:427:ALA:O	1:n:739:THR:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:444:LEU:HD13	1:n:477:ARG:HG3	2.00	0.43
1:n:668:PHE:CD1	1:r:373:PRO:HA	2.54	0.43
1:o:288:HIS:CD2	1:o:621:GLN:HA	2.53	0.43
1:o:398:GLU:OE1	1:o:398:GLU:N	2.51	0.43
1:p:373:PRO:HA	1:q:668:PHE:CD1	2.54	0.43
1:q:288:HIS:HD2	1:q:621:GLN:HA	1.83	0.43
1:u:544:SER:O	1:u:616:ARG:NH2	2.51	0.43
1:w:630:HIS:HD2	1:y:740:HIS:CD2	2.36	0.43
1:z:444:LEU:HD13	1:z:477:ARG:HG3	2.00	0.43
1:1:427:ALA:O	1:1:739:THR:HA	2.19	0.43
1:5:444:LEU:HD13	1:5:477:ARG:HG3	2.00	0.43
1:5:630:HIS:HD2	1:7:740:HIS:CD2	2.36	0.43
1:5:668:PHE:CD1	1:8:373:PRO:HA	2.54	0.43
1:6:427:ALA:O	1:6:739:THR:HA	2.19	0.43
1:7:607:ILE:HA	1:7:611:MET:SD	2.58	0.43
1:D:288:HIS:HD2	1:D:621:GLN:HA	1.83	0.43
1:H:607:ILE:HA	1:H:611:MET:SD	2.58	0.43
1:L:544:SER:O	1:L:616:ARG:NH2	2.51	0.43
1:M:668:PHE:CD1	1:c:373:PRO:HA	2.54	0.43
1:N:607:ILE:HA	1:N:611:MET:SD	2.58	0.43
1:T:544:SER:O	1:T:616:ARG:NH2	2.51	0.43
1:U:373:PRO:HA	1:e:668:PHE:CD1	2.54	0.43
1:X:398:GLU:OE1	1:X:398:GLU:N	2.51	0.43
1:Z:444:LEU:HD13	1:Z:477:ARG:HG3	2.00	0.43
1:a:288:HIS:CD2	1:a:621:GLN:HA	2.53	0.43
1:c:427:ALA:O	1:c:739:THR:HA	2.19	0.43
1:c:607:ILE:HA	1:c:611:MET:SD	2.58	0.43
1:d:427:ALA:O	1:d:739:THR:HA	2.19	0.43
1:d:444:LEU:HD13	1:d:477:ARG:HG3	2.00	0.43
1:e:373:PRO:HA	1:h:668:PHE:CD1	2.54	0.43
1:e:427:ALA:O	1:e:739:THR:HA	2.19	0.43
1:i:444:LEU:HD13	1:i:477:ARG:HG3	2.00	0.43
1:k:544:SER:O	1:k:616:ARG:NH2	2.51	0.43
1:n:544:SER:O	1:n:616:ARG:NH2	2.51	0.43
1:p:444:LEU:HD13	1:p:477:ARG:HG3	2.00	0.43
1:s:288:HIS:HD2	1:s:621:GLN:HA	1.83	0.43
1:x:398:GLU:N	1:x:398:GLU:OE1	2.51	0.43
1:x:427:ALA:O	1:x:739:THR:HA	2.19	0.43
1:z:544:SER:O	1:z:616:ARG:NH2	2.51	0.43
1:5:515:HIS:NE2	1:7:585:GLN:HB2	2.34	0.43
1:5:544:SER:O	1:5:616:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:607:ILE:HA	1:5:611:MET:SD	2.58	0.43
1:7:703:PRO:HD3	1:8:293:PRO:HB2	2.01	0.43
1:D:427:ALA:O	1:D:739:THR:HA	2.19	0.43
1:D:544:SER:O	1:D:616:ARG:NH2	2.51	0.43
1:E:630:HIS:HD2	1:F:740:HIS:CD2	2.36	0.43
1:F:717:MET:HE3	1:G:275:PHE:HE2	1.81	0.43
1:I:288:HIS:HD2	1:I:621:GLN:HA	1.83	0.43
1:I:434:ARG:HD3	1:I:434:ARG:HA	1.49	0.43
1:I:544:SER:O	1:I:616:ARG:NH2	2.51	0.43
1:K:444:LEU:HD13	1:K:477:ARG:HG3	2.00	0.43
1:K:627:LYS:HB2	1:K:649:PRO:HG3	2.01	0.43
1:N:427:ALA:O	1:N:739:THR:HA	2.19	0.43
1:O:373:PRO:HA	1:P:668:PHE:CD1	2.54	0.43
1:R:288:HIS:HD2	1:R:621:GLN:HA	1.83	0.43
1:U:288:HIS:HD2	1:U:621:GLN:HA	1.83	0.43
1:V:398:GLU:OE1	1:V:398:GLU:N	2.51	0.43
1:V:636:HIS:O	1:V:638:SER:N	2.47	0.43
1:W:544:SER:O	1:W:616:ARG:NH2	2.51	0.43
1:Y:703:PRO:HD3	1:Z:293:PRO:HB2	2.01	0.43
1:d:288:HIS:HD2	1:d:621:GLN:HA	1.83	0.43
1:d:321:LYS:NZ	1:d:334:ASN:OD1	2.27	0.43
1:d:585:GLN:HB2	1:l:515:HIS:NE2	2.34	0.43
1:g:544:SER:O	1:g:616:ARG:NH2	2.51	0.43
1:h:288:HIS:CD2	1:h:621:GLN:HA	2.53	0.43
1:i:427:ALA:O	1:i:739:THR:HA	2.19	0.43
1:j:668:PHE:CD1	1:l:373:PRO:HA	2.54	0.43
1:k:427:ALA:O	1:k:739:THR:HA	2.19	0.43
1:m:627:LYS:HB2	1:m:649:PRO:HG3	2.01	0.43
1:p:288:HIS:CD2	1:p:621:GLN:HA	2.53	0.43
1:p:293:PRO:HB2	1:s:703:PRO:HD3	2.01	0.43
1:u:288:HIS:HD2	1:u:621:GLN:HA	1.83	0.43
1:w:544:SER:O	1:w:616:ARG:NH2	2.51	0.43
1:y:288:HIS:CD2	1:y:621:GLN:HA	2.53	0.43
1:4:444:LEU:HD13	1:4:477:ARG:HG3	2.00	0.43
1:6:544:SER:O	1:6:616:ARG:NH2	2.51	0.43
1:8:444:LEU:HD13	1:8:477:ARG:HG3	2.00	0.43
1:C:427:ALA:O	1:C:739:THR:HA	2.18	0.43
1:C:515:HIS:NE2	1:M:585:GLN:HB2	2.34	0.43
1:C:544:SER:O	1:C:616:ARG:NH2	2.51	0.43
1:E:544:SER:O	1:E:616:ARG:NH2	2.51	0.43
1:G:467:LYS:NZ	1:I:359:GLU:OE2	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:585:GLN:HB2	1:W:515:HIS:NE2	2.34	0.43
1:K:515:HIS:NE2	1:8:585:GLN:HB2	2.34	0.43
1:L:699:LYS:HA	1:L:699:LYS:HD2	1.84	0.43
1:M:288:HIS:CD2	1:M:621:GLN:HA	2.53	0.43
1:N:585:GLN:HB2	1:P:515:HIS:NE2	2.34	0.43
1:T:627:LYS:HB2	1:T:649:PRO:HG3	2.01	0.43
1:T:722:ASP:C	1:U:262:ARG:HG2	2.43	0.43
1:V:288:HIS:CD2	1:V:621:GLN:HA	2.53	0.43
1:W:279:TRP:CD1	1:W:397:LEU:HD12	2.54	0.43
1:W:444:LEU:HD13	1:W:477:ARG:HG3	2.00	0.43
1:X:373:PRO:HA	1:Y:668:PHE:CD1	2.54	0.43
1:X:668:PHE:CD1	1:f:373:PRO:HA	2.54	0.43
1:Z:740:HIS:CD2	1:4:630:HIS:HD2	2.35	0.43
1:a:293:PRO:HB2	1:3:703:PRO:HD3	2.01	0.43
1:a:544:SER:O	1:a:616:ARG:NH2	2.51	0.43
1:a:627:LYS:HB2	1:a:649:PRO:HG3	2.01	0.43
1:a:703:PRO:HD3	1:3:293:PRO:HB2	2.01	0.43
1:b:279:TRP:CD1	1:b:397:LEU:HD12	2.54	0.43
1:b:373:PRO:HA	1:o:668:PHE:CD1	2.54	0.43
1:b:627:LYS:HB2	1:b:649:PRO:HG3	2.01	0.43
1:c:279:TRP:CD1	1:c:397:LEU:HD12	2.54	0.43
1:e:279:TRP:CD1	1:e:397:LEU:HD12	2.54	0.43
1:e:444:LEU:HD13	1:e:477:ARG:HG3	2.00	0.43
1:f:279:TRP:CD1	1:f:397:LEU:HD12	2.54	0.43
1:f:288:HIS:CD2	1:f:621:GLN:HA	2.53	0.43
1:f:627:LYS:HB2	1:f:649:PRO:HG3	2.01	0.43
1:f:668:PHE:CD1	1:z:373:PRO:HA	2.54	0.43
1:f:740:HIS:CD2	1:h:630:HIS:HD2	2.36	0.43
1:g:515:HIS:NE2	1:h:585:GLN:HB2	2.34	0.43
1:i:585:GLN:HB2	1:j:515:HIS:NE2	2.34	0.43
1:j:275:PHE:HE2	1:l:717:MET:HE3	1.81	0.43
1:m:444:LEU:HD13	1:m:477:ARG:HG3	2.00	0.43
1:m:544:SER:O	1:m:616:ARG:NH2	2.51	0.43
1:o:373:PRO:HA	1:7:668:PHE:CD1	2.54	0.43
1:p:636:HIS:O	1:p:638:SER:N	2.47	0.43
1:s:699:LYS:HA	1:s:699:LYS:HD2	1.84	0.43
1:z:585:GLN:HB2	1:1:515:HIS:NE2	2.34	0.43
1:z:668:PHE:CD1	1:4:373:PRO:HA	2.53	0.43
1:1:467:LYS:NZ	1:2:359:GLU:OE2	2.41	0.43
1:3:544:SER:O	1:3:616:ARG:NH2	2.51	0.43
1:3:627:LYS:HB2	1:3:649:PRO:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:585:GLN:HB2	1:6:515:HIS:NE2	2.34	0.43
1:6:444:LEU:HD13	1:6:477:ARG:HG3	2.00	0.43
1:A:293:PRO:HB2	1:F:703:PRO:HD3	2.01	0.43
1:B:740:HIS:CD2	1:J:630:HIS:HD2	2.35	0.43
1:C:444:LEU:HD13	1:C:477:ARG:HG3	2.00	0.43
1:D:293:PRO:HB2	1:M:703:PRO:HD3	2.01	0.43
1:D:627:LYS:HB2	1:D:649:PRO:HG3	2.01	0.43
1:D:703:PRO:HD3	1:M:293:PRO:HB2	2.01	0.43
1:E:279:TRP:CD1	1:E:397:LEU:HD12	2.54	0.43
1:G:627:LYS:HB2	1:G:649:PRO:HG3	2.01	0.43
1:H:627:LYS:HB2	1:H:649:PRO:HG3	2.01	0.43
1:K:373:PRO:HA	1:L:668:PHE:CD1	2.53	0.43
1:K:630:HIS:HD2	1:8:740:HIS:CD2	2.35	0.43
1:L:288:HIS:HD2	1:L:621:GLN:HA	1.83	0.43
1:L:373:PRO:HA	1:b:668:PHE:CD1	2.54	0.43
1:M:373:PRO:HA	1:N:668:PHE:CD1	2.54	0.43
1:M:515:HIS:NE2	1:b:585:GLN:HB2	2.34	0.43
1:M:630:HIS:HD2	1:b:740:HIS:CD2	2.36	0.43
1:O:515:HIS:NE2	1:n:585:GLN:HB2	2.34	0.43
1:O:717:MET:HE3	1:P:275:PHE:HE2	1.81	0.43
1:T:585:GLN:HB2	1:d:515:HIS:NE2	2.34	0.43
1:U:627:LYS:HB2	1:U:649:PRO:HG3	2.01	0.43
1:Z:544:SER:O	1:Z:616:ARG:NH2	2.51	0.43
1:b:288:HIS:CD2	1:b:621:GLN:HA	2.53	0.43
1:c:585:GLN:HB2	1:o:515:HIS:NE2	2.34	0.43
1:g:427:ALA:O	1:g:739:THR:HA	2.18	0.43
1:g:444:LEU:HD13	1:g:477:ARG:HG3	2.00	0.43
1:i:515:HIS:NE2	1:k:585:GLN:HB2	2.34	0.43
1:i:627:LYS:HB2	1:i:649:PRO:HG3	2.01	0.43
1:j:740:HIS:CD2	1:k:630:HIS:HD2	2.36	0.43
1:l:441:ASP:OD1	1:l:470:THR:N	2.43	0.43
1:m:373:PRO:HA	1:s:668:PHE:CD1	2.53	0.43
1:m:585:GLN:HB2	1:n:515:HIS:NE2	2.34	0.43
1:n:288:HIS:HD2	1:n:621:GLN:HA	1.83	0.43
1:p:398:GLU:N	1:p:398:GLU:OE1	2.51	0.43
1:v:631:THR:HG1	1:v:634[B]:HIS:HE2	1.58	0.43
1:w:279:TRP:CD1	1:w:397:LEU:HD12	2.54	0.43
1:w:442:GLN:HA	1:x:358:GLN:HA	1.99	0.43
1:x:542:SER:OG	1:x:579:ASP:OD2	2.26	0.43
1:z:630:HIS:HD2	1:2:740:HIS:CD2	2.35	0.43
1:z:699:LYS:HA	1:z:699:LYS:HD2	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:441:ASP:OD1	1:3:470:THR:N	2.43	0.43
1:4:627:LYS:HB2	1:4:649:PRO:HG3	2.01	0.43
1:5:627:LYS:HB2	1:5:649:PRO:HG3	2.01	0.43
1:6:279:TRP:CD1	1:6:397:LEU:HD12	2.54	0.43
1:C:585:GLN:HB2	1:b:515:HIS:NE2	2.34	0.42
1:D:585:GLN:HB2	1:N:515:HIS:NE2	2.34	0.42
1:E:442:GLN:HA	1:Q:358:GLN:HA	1.99	0.42
1:F:515:HIS:NE2	1:Q:585:GLN:HB2	2.34	0.42
1:I:427:ALA:O	1:I:739:THR:HA	2.18	0.42
1:N:627:LYS:HB2	1:N:649:PRO:HG3	2.01	0.42
1:O:585:GLN:HB2	1:m:515:HIS:NE2	2.34	0.42
1:P:636:HIS:O	1:P:638:SER:N	2.47	0.42
1:T:467:LYS:NZ	1:d:359:GLU:OE2	2.41	0.42
1:V:427:ALA:O	1:V:739:THR:HA	2.18	0.42
1:V:585:GLN:HB2	1:e:515:HIS:NE2	2.34	0.42
1:X:279:TRP:CD1	1:X:397:LEU:HD12	2.54	0.42
1:X:359:GLU:OE2	1:e:467:LYS:NZ	2.41	0.42
1:X:515:HIS:NE2	1:e:585:GLN:HB2	2.34	0.42
1:Y:279:TRP:CD1	1:Y:397:LEU:HD12	2.54	0.42
1:Z:288:HIS:CD2	1:Z:621:GLN:HA	2.53	0.42
1:Z:585:GLN:HB2	1:4:515:HIS:NE2	2.34	0.42
1:a:279:TRP:CD1	1:a:397:LEU:HD12	2.54	0.42
1:c:444:LEU:HD13	1:c:477:ARG:HG3	2.00	0.42
1:f:515:HIS:NE2	1:g:585:GLN:HB2	2.34	0.42
1:f:585:GLN:HB2	1:h:515:HIS:NE2	2.34	0.42
1:h:293:PRO:HB2	1:k:703:PRO:HD3	2.01	0.42
1:h:373:PRO:HA	1:i:668:PHE:CD1	2.54	0.42
1:h:703:PRO:HD3	1:k:293:PRO:HB2	2.01	0.42
1:j:636:HIS:O	1:j:638:SER:N	2.47	0.42
1:k:627:LYS:HB2	1:k:649:PRO:HG3	2.01	0.42
1:l:427:ALA:O	1:l:739:THR:HA	2.18	0.42
1:o:279:TRP:CD1	1:o:397:LEU:HD12	2.54	0.42
1:p:427:ALA:O	1:p:739:THR:HA	2.18	0.42
1:p:699:LYS:HD2	1:p:699:LYS:HA	1.85	0.42
1:q:279:TRP:CD1	1:q:397:LEU:HD12	2.54	0.42
1:s:627:LYS:HB2	1:s:649:PRO:HG3	2.01	0.42
1:t:627:LYS:HB2	1:t:649:PRO:HG3	2.01	0.42
1:v:293:PRO:HB2	1:y:703:PRO:HD3	2.01	0.42
1:v:668:PHE:CD1	1:1:373:PRO:HA	2.54	0.42
1:x:585:GLN:HB2	1:y:515:HIS:NE2	2.34	0.42
1:3:279:TRP:CD1	1:3:397:LEU:HD12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:373:PRO:HA	1:8:668:PHE:CD1	2.54	0.42
1:7:279:TRP:CD1	1:7:397:LEU:HD12	2.54	0.42
1:8:279:TRP:CD1	1:8:397:LEU:HD12	2.54	0.42
1:8:544:SER:O	1:8:616:ARG:NH2	2.51	0.42
1:B:467:LYS:NZ	1:J:359:GLU:OE2	2.41	0.42
1:B:544:SER:O	1:B:616:ARG:NH2	2.51	0.42
1:C:703:PRO:HD3	1:L:293:PRO:HB2	2.01	0.42
1:D:630:HIS:HD2	1:P:740:HIS:CD2	2.36	0.42
1:D:668:PHE:CD1	1:E:373:PRO:HA	2.54	0.42
1:F:668:PHE:CD1	1:R:373:PRO:HA	2.54	0.42
1:J:703:PRO:HD3	1:K:293:PRO:HB2	2.01	0.42
1:J:740:HIS:CD2	1:L:630:HIS:HD2	2.36	0.42
1:M:627:LYS:HB2	1:M:649:PRO:HG3	2.01	0.42
1:N:740:HIS:CD2	1:P:630:HIS:HD2	2.36	0.42
1:O:427:ALA:O	1:O:739:THR:HA	2.18	0.42
1:O:441:ASP:OD1	1:O:470:THR:N	2.43	0.42
1:O:544:SER:O	1:O:616:ARG:NH2	2.51	0.42
1:P:279:TRP:CD1	1:P:397:LEU:HD12	2.54	0.42
1:R:279:TRP:CD1	1:R:397:LEU:HD12	2.54	0.42
1:R:427:ALA:O	1:R:739:THR:HA	2.18	0.42
1:T:444:LEU:HD13	1:T:477:ARG:HG3	2.00	0.42
1:V:699:LYS:HD2	1:V:699:LYS:HA	1.85	0.42
1:X:627:LYS:HB2	1:X:649:PRO:HG3	2.01	0.42
1:Y:717:MET:HE3	1:4:275:PHE:HE2	1.81	0.42
1:Z:279:TRP:CD1	1:Z:397:LEU:HD12	2.54	0.42
1:c:288:HIS:CD2	1:c:621:GLN:HA	2.53	0.42
1:c:515:HIS:NE2	1:p:585:GLN:HB2	2.34	0.42
1:e:288:HIS:CD2	1:e:621:GLN:HA	2.53	0.42
1:g:703:PRO:HD3	1:z:293:PRO:HB2	2.01	0.42
1:k:668:PHE:CD1	1:w:373:PRO:HA	2.54	0.42
1:o:627:LYS:HB2	1:o:649:PRO:HG3	2.01	0.42
1:p:668:PHE:CD1	1:6:373:PRO:HA	2.53	0.42
1:r:585:GLN:HB2	1:s:515:HIS:NE2	2.34	0.42
1:u:427:ALA:O	1:u:739:THR:HA	2.19	0.42
1:1:585:GLN:HB2	1:2:515:HIS:NE2	2.34	0.42
1:2:703:PRO:HD3	1:4:293:PRO:HB2	2.01	0.42
1:8:288:HIS:CD2	1:8:621:GLN:HA	2.53	0.42
1:B:293:PRO:HB2	1:I:703:PRO:HD3	2.01	0.42
1:B:515:HIS:NE2	1:L:585:GLN:HB2	2.34	0.42
1:C:279:TRP:CD1	1:C:397:LEU:HD12	2.54	0.42
1:D:269:SER:HA	1:D:521:ARG:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:427:ALA:O	1:F:739:THR:HA	2.18	0.42
1:J:279:TRP:CD1	1:J:397:LEU:HD12	2.54	0.42
1:K:279:TRP:CD1	1:K:397:LEU:HD12	2.54	0.42
1:K:631:THR:HG1	1:K:634[B]:HIS:HE2	1.64	0.42
1:L:279:TRP:CD1	1:L:397:LEU:HD12	2.54	0.42
1:M:434:ARG:HD3	1:M:434:ARG:HA	1.49	0.42
1:Q:373:PRO:HA	1:S:668:PHE:CD1	2.53	0.42
1:R:444:LEU:HD13	1:R:477:ARG:HG3	2.00	0.42
1:S:279:TRP:CD1	1:S:397:LEU:HD12	2.54	0.42
1:T:515:HIS:NE2	1:l:585:GLN:HB2	2.34	0.42
1:V:668:PHE:CD1	1:W:373:PRO:HA	2.53	0.42
1:X:444:LEU:HD13	1:X:477:ARG:HG3	2.00	0.42
1:Z:668:PHE:CD1	1:a:373:PRO:HA	2.54	0.42
1:d:279:TRP:CD1	1:d:397:LEU:HD12	2.54	0.42
1:g:279:TRP:CD1	1:g:397:LEU:HD12	2.54	0.42
1:h:627:LYS:HB2	1:h:649:PRO:HG3	2.01	0.42
1:i:279:TRP:CD1	1:i:397:LEU:HD12	2.54	0.42
1:i:740:HIS:CD2	1:j:630:HIS:HD2	2.36	0.42
1:j:279:TRP:CD1	1:j:397:LEU:HD12	2.54	0.42
1:k:269:SER:HA	1:k:521:ARG:HG2	2.02	0.42
1:l:544:SER:O	1:l:616:ARG:NH2	2.51	0.42
1:n:279:TRP:CD1	1:n:397:LEU:HD12	2.54	0.42
1:o:444:LEU:HD13	1:o:477:ARG:HG3	2.00	0.42
1:q:373:PRO:HA	1:y:668:PHE:CD1	2.54	0.42
1:q:444:LEU:HD13	1:q:477:ARG:HG3	2.00	0.42
1:q:515:HIS:NE2	1:s:585:GLN:HB2	2.34	0.42
1:r:279:TRP:CD1	1:r:397:LEU:HD12	2.54	0.42
1:t:467:LYS:NZ	1:u:359:GLU:OE2	2.42	0.42
1:1:544:SER:O	1:1:616:ARG:NH2	2.51	0.42
1:2:255:TYR:OH	1:2:372:VAL:O	2.28	0.42
1:2:279:TRP:CD1	1:2:397:LEU:HD12	2.54	0.42
1:3:515:HIS:NE2	1:4:585:GLN:HB2	2.34	0.42
1:4:279:TRP:CD1	1:4:397:LEU:HD12	2.54	0.42
1:5:288:HIS:CD2	1:5:621:GLN:HA	2.53	0.42
1:6:288:HIS:HD2	1:6:621:GLN:HA	1.83	0.42
1:F:444:LEU:HD13	1:F:477:ARG:HG3	2.00	0.42
1:F:544:SER:O	1:F:616:ARG:NH2	2.51	0.42
1:G:444:LEU:HD13	1:G:477:ARG:HG3	2.00	0.42
1:H:359:GLU:OE2	1:Y:467:LYS:NZ	2.41	0.42
1:K:275:PHE:HE2	1:7:717:MET:HE3	1.81	0.42
1:K:585:GLN:HB2	1:a:515:HIS:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:348:TYR:OH	1:L:649:PRO:O	2.25	0.42
1:N:279:TRP:CD1	1:N:397:LEU:HD12	2.54	0.42
1:N:703:PRO:HD3	1:O:293:PRO:HB2	2.01	0.42
1:O:279:TRP:CD1	1:O:397:LEU:HD12	2.54	0.42
1:P:544:SER:O	1:P:616:ARG:NH2	2.51	0.42
1:S:243:THR:HG21	1:S:688:GLN:HE21	1.85	0.42
1:S:700:ARG:NH1	1:S:739:THR:OG1	2.53	0.42
1:V:279:TRP:CD1	1:V:397:LEU:HD12	2.54	0.42
1:V:450:THR:HG1	1:e:501:ILE:H	1.65	0.42
1:W:288:HIS:HD2	1:W:621:GLN:HA	1.83	0.42
1:a:441:ASP:OD1	1:a:470:THR:N	2.43	0.42
1:a:700:ARG:NH1	1:a:739:THR:OG1	2.53	0.42
1:c:627:LYS:HB2	1:c:649:PRO:HG3	2.01	0.42
1:e:627:LYS:HB2	1:e:649:PRO:HG3	2.01	0.42
1:g:243:THR:HG21	1:g:688:GLN:HE21	1.85	0.42
1:i:703:PRO:HD3	1:l:293:PRO:HB2	2.01	0.42
1:p:279:TRP:CD1	1:p:397:LEU:HD12	2.54	0.42
1:r:243:THR:HG21	1:r:688:GLN:HE21	1.85	0.42
1:r:700:ARG:NH1	1:r:739:THR:OG1	2.53	0.42
1:s:700:ARG:NH1	1:s:739:THR:OG1	2.53	0.42
1:t:444:LEU:HD13	1:t:477:ARG:HG3	2.00	0.42
1:u:279:TRP:CD1	1:u:397:LEU:HD12	2.54	0.42
1:u:434:ARG:HD3	1:u:434:ARG:HA	1.49	0.42
1:u:585:GLN:HB2	1:v:515:HIS:NE2	2.34	0.42
1:w:348:TYR:OH	1:w:649:PRO:O	2.25	0.42
1:y:444:LEU:HD13	1:y:477:ARG:HG3	2.00	0.42
1:z:279:TRP:CD1	1:z:397:LEU:HD12	2.54	0.42
1:z:348:TYR:OH	1:z:649:PRO:O	2.25	0.42
1:1:740:HIS:CD2	1:2:630:HIS:HD2	2.36	0.42
1:3:269:SER:HA	1:3:521:ARG:HG2	2.02	0.42
1:3:700:ARG:NH1	1:3:739:THR:OG1	2.53	0.42
1:8:441:ASP:OD1	1:8:470:THR:N	2.43	0.42
1:A:515:HIS:NE2	1:I:585:GLN:HB2	2.34	0.42
1:C:243:THR:HG21	1:C:688:GLN:HE21	1.85	0.42
1:C:269:SER:HA	1:C:521:ARG:HG2	2.02	0.42
1:E:348:TYR:OH	1:E:649:PRO:O	2.25	0.42
1:F:279:TRP:CD1	1:F:397:LEU:HD12	2.54	0.42
1:F:373:PRO:HA	1:G:668:PHE:CD1	2.53	0.42
1:H:288:HIS:CD2	1:H:621:GLN:HA	2.53	0.42
1:H:699:LYS:HA	1:H:699:LYS:HD2	1.85	0.42
1:I:279:TRP:CD1	1:I:397:LEU:HD12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:243:THR:HG21	1:J:688:GLN:HE21	1.85	0.42
1:J:255:TYR:OH	1:J:372:VAL:O	2.28	0.42
1:J:427:ALA:O	1:J:739:THR:HA	2.18	0.42
1:M:243:THR:HG21	1:M:688:GLN:HE21	1.85	0.42
1:M:700:ARG:NH1	1:M:739:THR:OG1	2.53	0.42
1:N:373:PRO:HA	1:m:668:PHE:CD1	2.53	0.42
1:P:269:SER:HA	1:P:521:ARG:HG2	2.02	0.42
1:Q:700:ARG:NH1	1:Q:739:THR:OG1	2.53	0.42
1:R:627:LYS:HB2	1:R:649:PRO:HG3	2.01	0.42
1:S:269:SER:HA	1:S:521:ARG:HG2	2.02	0.42
1:T:668:PHE:CD1	1:i:373:PRO:HA	2.53	0.42
1:U:700:ARG:NH1	1:U:739:THR:OG1	2.53	0.42
1:W:293:PRO:HB2	1:X:703:PRO:HD3	2.01	0.42
1:W:703:PRO:HD3	1:X:293:PRO:HB2	2.01	0.42
1:X:699:LYS:HA	1:X:699:LYS:HD2	1.85	0.42
1:a:269:SER:HA	1:a:521:ARG:HG2	2.02	0.42
1:b:243:THR:HG21	1:b:688:GLN:HE21	1.85	0.42
1:c:467:LYS:NZ	1:o:359:GLU:OE2	2.41	0.42
1:d:269:SER:HA	1:d:521:ARG:HG2	2.02	0.42
1:g:269:SER:HA	1:g:521:ARG:HG2	2.02	0.42
1:h:243:THR:HG21	1:h:688:GLN:HE21	1.85	0.42
1:h:700:ARG:NH1	1:h:739:THR:OG1	2.53	0.42
1:j:269:SER:HA	1:j:521:ARG:HG2	2.02	0.42
1:l:279:TRP:CD1	1:l:397:LEU:HD12	2.54	0.42
1:n:269:SER:HA	1:n:521:ARG:HG2	2.02	0.42
1:o:269:SER:HA	1:o:521:ARG:HG2	2.02	0.42
1:p:703:PRO:HD3	1:s:293:PRO:HB2	2.01	0.42
1:q:427:ALA:O	1:q:739:THR:HA	2.19	0.42
1:r:269:SER:HA	1:r:521:ARG:HG2	2.02	0.42
1:u:293:PRO:HB2	1:1:703:PRO:HD3	2.00	0.42
1:x:243:THR:HG21	1:x:688:GLN:HE21	1.85	0.42
1:x:700:ARG:NH1	1:x:739:THR:OG1	2.53	0.42
1:y:427:ALA:O	1:y:739:THR:HA	2.18	0.42
1:y:544:SER:O	1:y:616:ARG:NH2	2.51	0.42
1:4:243:THR:HG21	1:4:688:GLN:HE21	1.85	0.42
1:4:288:HIS:HD2	1:4:621:GLN:HA	1.83	0.42
1:4:309:LYS:HA	1:4:309:LYS:HD2	1.90	0.42
1:5:279:TRP:CD1	1:5:397:LEU:HD12	2.54	0.42
1:6:700:ARG:NH1	1:6:739:THR:OG1	2.53	0.42
1:A:441:ASP:OD1	1:A:470:THR:N	2.43	0.42
1:D:341:GLN:O	1:D:655:ILE:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:288:HIS:HD2	1:E:621:GLN:HA	1.83	0.42
1:E:700:ARG:NH1	1:E:739:THR:OG1	2.53	0.42
1:G:269:SER:HA	1:G:521:ARG:HG2	2.02	0.42
1:H:279:TRP:CD1	1:H:397:LEU:HD12	2.54	0.42
1:J:585:GLN:HB2	1:L:515:HIS:NE2	2.34	0.42
1:K:243:THR:HG21	1:K:688:GLN:HE21	1.85	0.42
1:K:288:HIS:HD2	1:K:621:GLN:HA	1.83	0.42
1:L:354:MET:HB2	1:L:652:GLN:HE21	1.85	0.42
1:M:341:GLN:O	1:M:655:ILE:HA	2.20	0.42
1:N:341:GLN:O	1:N:655:ILE:HA	2.20	0.42
1:T:373:PRO:HA	1:U:668:PHE:CD1	2.54	0.42
1:U:279:TRP:CD1	1:U:397:LEU:HD12	2.54	0.42
1:V:243:THR:HG21	1:V:688:GLN:HE21	1.85	0.42
1:V:269:SER:HA	1:V:521:ARG:HG2	2.02	0.42
1:V:341:GLN:O	1:V:655:ILE:HA	2.20	0.42
1:V:515:HIS:NE2	1:X:585:GLN:HB2	2.34	0.42
1:W:700:ARG:NH1	1:W:739:THR:OG1	2.53	0.42
1:X:269:SER:HA	1:X:521:ARG:HG2	2.02	0.42
1:Z:627:LYS:HB2	1:Z:649:PRO:HG3	2.01	0.42
1:b:341:GLN:O	1:b:655:ILE:HA	2.20	0.42
1:d:627:LYS:HB2	1:d:649:PRO:HG3	2.01	0.42
1:d:700:ARG:NH1	1:d:739:THR:OG1	2.53	0.42
1:f:243:THR:HG21	1:f:688:GLN:HE21	1.85	0.42
1:f:341:GLN:O	1:f:655:ILE:HA	2.20	0.42
1:g:441:ASP:OD1	1:g:470:THR:N	2.43	0.42
1:h:341:GLN:O	1:h:655:ILE:HA	2.20	0.42
1:i:341:GLN:O	1:i:655:ILE:HA	2.20	0.42
1:j:544:SER:O	1:j:616:ARG:NH2	2.51	0.42
1:k:341:GLN:O	1:k:655:ILE:HA	2.20	0.42
1:m:279:TRP:CD1	1:m:397:LEU:HD12	2.54	0.42
1:n:627:LYS:HB2	1:n:649:PRO:HG3	2.01	0.42
1:o:293:PRO:HB2	1:6:703:PRO:HD3	2.01	0.42
1:o:585:GLN:HB2	1:p:515:HIS:NE2	2.34	0.42
1:o:703:PRO:HD3	1:6:293:PRO:HB2	2.01	0.42
1:p:243:THR:HG21	1:p:688:GLN:HE21	1.85	0.42
1:p:269:SER:HA	1:p:521:ARG:HG2	2.02	0.42
1:p:341:GLN:O	1:p:655:ILE:HA	2.20	0.42
1:r:668:PHE:CD1	1:x:373:PRO:HA	2.54	0.42
1:s:279:TRP:CD1	1:s:397:LEU:HD12	2.54	0.42
1:t:668:PHE:CD1	1:y:373:PRO:HA	2.53	0.42
1:v:341:GLN:O	1:v:655:ILE:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:700:ARG:NH1	1:w:739:THR:OG1	2.53	0.42
1:y:279:TRP:CD1	1:y:397:LEU:HD12	2.54	0.42
1:z:288:HIS:HD2	1:z:621:GLN:HA	1.83	0.42
1:z:354:MET:HB2	1:z:652:GLN:HE21	1.85	0.42
1:2:243:THR:HG21	1:2:688:GLN:HE21	1.85	0.42
1:2:288:HIS:HD2	1:2:621:GLN:HA	1.83	0.42
1:2:427:ALA:O	1:2:739:THR:HA	2.19	0.42
1:3:699:LYS:HA	1:3:699:LYS:HD2	1.85	0.42
1:6:627:LYS:HB2	1:6:649:PRO:HG3	2.01	0.42
1:8:341:GLN:O	1:8:655:ILE:HA	2.20	0.42
1:8:627:LYS:HB2	1:8:649:PRO:HG3	2.01	0.42
1:A:341:GLN:O	1:A:655:ILE:HA	2.20	0.42
1:D:515:HIS:NE2	1:P:585:GLN:HB2	2.34	0.42
1:E:515:HIS:NE2	1:F:585:GLN:HB2	2.34	0.42
1:E:627:LYS:HB2	1:E:649:PRO:HG3	2.01	0.42
1:G:354:MET:HB2	1:G:652:GLN:HE21	1.85	0.42
1:H:269:SER:HA	1:H:521:ARG:HG2	2.02	0.42
1:J:269:SER:HA	1:J:521:ARG:HG2	2.02	0.42
1:L:627:LYS:HB2	1:L:649:PRO:HG3	2.01	0.42
1:M:269:SER:HA	1:M:521:ARG:HG2	2.02	0.42
1:P:700:ARG:NH1	1:P:739:THR:OG1	2.53	0.42
1:Q:243:THR:HG21	1:Q:688:GLN:HE21	1.85	0.42
1:S:627:LYS:HB2	1:S:649:PRO:HG3	2.01	0.42
1:T:243:THR:HG21	1:T:688:GLN:HE21	1.85	0.42
1:T:279:TRP:CD1	1:T:397:LEU:HD12	2.54	0.42
1:U:444:LEU:HD13	1:U:477:ARG:HG3	2.00	0.42
1:V:354:MET:HB2	1:V:652:GLN:HE21	1.85	0.42
1:W:627:LYS:HB2	1:W:649:PRO:HG3	2.01	0.42
1:Y:293:PRO:HB2	1:Z:703:PRO:HD3	2.01	0.42
1:Y:444:LEU:HD13	1:Y:477:ARG:HG3	2.00	0.42
1:Z:341:GLN:O	1:Z:655:ILE:HA	2.20	0.42
1:Z:441:ASP:OD1	1:Z:470:THR:N	2.43	0.42
1:f:427:ALA:O	1:f:739:THR:HA	2.19	0.42
1:j:585:GLN:HB2	1:k:515:HIS:NE2	2.34	0.42
1:m:243:THR:HG21	1:m:688:GLN:HE21	1.85	0.42
1:n:700:ARG:NH1	1:n:739:THR:OG1	2.53	0.42
1:p:354:MET:HB2	1:p:652:GLN:HE21	1.85	0.42
1:q:627:LYS:HB2	1:q:649:PRO:HG3	2.01	0.42
1:t:269:SER:HA	1:t:521:ARG:HG2	2.02	0.42
1:t:293:PRO:HB2	1:5:703:PRO:HD3	2.01	0.42
1:t:341:GLN:HG2	1:t:404:MET:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:354:MET:HB2	1:t:652:GLN:HE21	1.85	0.42
1:w:515:HIS:NE2	1:y:585:GLN:HB2	2.34	0.42
1:w:627:LYS:HB2	1:w:649:PRO:HG3	2.01	0.42
1:z:515:HIS:NE2	1:2:585:GLN:HB2	2.35	0.42
1:2:269:SER:HA	1:2:521:ARG:HG2	2.02	0.42
1:3:359:GLU:OE2	1:4:467:LYS:NZ	2.41	0.42
1:5:269:SER:HA	1:5:521:ARG:HG2	2.02	0.42
1:5:700:ARG:NH1	1:5:739:THR:OG1	2.53	0.42
1:7:293:PRO:HB2	1:8:703:PRO:HD3	2.01	0.42
1:8:636:HIS:O	1:8:638:SER:N	2.47	0.42
1:A:700:ARG:NH1	1:A:739:THR:OG1	2.53	0.42
1:C:354:MET:HB2	1:C:652:GLN:HE21	1.85	0.42
1:C:441:ASP:OD1	1:C:470:THR:N	2.43	0.42
1:D:279:TRP:CD1	1:D:397:LEU:HD12	2.54	0.42
1:E:341:GLN:HG2	1:E:404:MET:HG2	2.02	0.42
1:F:627:LYS:HB2	1:F:649:PRO:HG3	2.01	0.42
1:G:279:TRP:CD1	1:G:397:LEU:HD12	2.54	0.42
1:G:293:PRO:HB2	1:H:703:PRO:HD3	2.01	0.42
1:G:341:GLN:HG2	1:G:404:MET:HG2	2.02	0.42
1:H:243:THR:HG21	1:H:688:GLN:HE21	1.85	0.42
1:H:341:GLN:O	1:H:655:ILE:HA	2.20	0.42
1:H:700:ARG:NH1	1:H:739:THR:OG1	2.53	0.42
1:L:269:SER:HA	1:L:521:ARG:HG2	2.02	0.42
1:S:636:HIS:O	1:S:638:SER:N	2.47	0.42
1:Y:354:MET:HB2	1:Y:652:GLN:HE21	1.85	0.42
1:Z:636:HIS:O	1:Z:638:SER:N	2.47	0.42
1:b:293:PRO:HB2	1:c:703:PRO:HD3	2.01	0.42
1:b:354:MET:HB2	1:b:652:GLN:HE21	1.85	0.42
1:b:427:ALA:O	1:b:739:THR:HA	2.19	0.42
1:c:243:THR:HG21	1:c:688:GLN:HE21	1.85	0.42
1:c:269:SER:HA	1:c:521:ARG:HG2	2.02	0.42
1:e:703:PRO:HD3	1:f:293:PRO:HB2	2.01	0.42
1:g:309:LYS:HA	1:g:309:LYS:HD2	1.90	0.42
1:g:354:MET:HB2	1:g:652:GLN:HE21	1.85	0.42
1:g:627:LYS:HB2	1:g:649:PRO:HG3	2.01	0.42
1:g:700:ARG:NH1	1:g:739:THR:OG1	2.53	0.42
1:h:269:SER:HA	1:h:521:ARG:HG2	2.02	0.42
1:j:700:ARG:NH1	1:j:739:THR:OG1	2.53	0.42
1:o:467:LYS:NZ	1:p:359:GLU:OE2	2.41	0.42
1:u:627:LYS:HB2	1:u:649:PRO:HG3	2.01	0.42
1:u:703:PRO:HD3	1:1:293:PRO:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:275:PHE:CE2	1:1:717:MET:CE	2.95	0.42
1:v:279:TRP:CD1	1:v:397:LEU:HD12	2.54	0.42
1:v:441:ASP:OD1	1:v:470:THR:N	2.43	0.42
1:v:700:ARG:NH1	1:v:739:THR:OG1	2.53	0.42
1:w:288:HIS:HD2	1:w:621:GLN:HA	1.83	0.42
1:w:341:GLN:HG2	1:w:404:MET:HG2	2.02	0.42
1:y:627:LYS:HB2	1:y:649:PRO:HG3	2.01	0.42
1:z:627:LYS:HB2	1:z:649:PRO:HG3	2.01	0.42
1:5:341:GLN:O	1:5:655:ILE:HA	2.20	0.42
1:5:359:GLU:OE2	1:7:467:LYS:NZ	2.41	0.42
1:7:354:MET:HB2	1:7:652:GLN:HE21	1.85	0.42
1:7:444:LEU:HD13	1:7:477:ARG:HG3	2.00	0.42
1:8:309:LYS:HA	1:8:309:LYS:HD2	1.90	0.42
1:A:279:TRP:CD1	1:A:397:LEU:HD12	2.54	0.42
1:A:585:GLN:HB2	1:G:515:HIS:NE2	2.34	0.42
1:A:627:LYS:HB2	1:A:649:PRO:HG3	2.01	0.42
1:B:341:GLN:HG2	1:B:404:MET:HG2	2.02	0.42
1:B:585:GLN:HB2	1:J:515:HIS:NE2	2.34	0.42
1:C:293:PRO:HB2	1:L:703:PRO:HD3	2.01	0.42
1:C:627:LYS:HB2	1:C:649:PRO:HG3	2.01	0.42
1:C:700:ARG:NH1	1:C:739:THR:OG1	2.53	0.42
1:I:627:LYS:HB2	1:I:649:PRO:HG3	2.01	0.42
1:J:288:HIS:HD2	1:J:621:GLN:HA	1.83	0.42
1:K:309:LYS:HA	1:K:309:LYS:HD2	1.90	0.42
1:K:467:LYS:NZ	1:a:359:GLU:OE2	2.41	0.42
1:L:243:THR:HG21	1:L:688:GLN:HE21	1.85	0.42
1:O:243:THR:HG21	1:O:688:GLN:HE21	1.85	0.42
1:O:542:SER:OG	1:O:579:ASP:OD2	2.26	0.42
1:P:243:THR:HG21	1:P:688:GLN:HE21	1.85	0.42
1:S:293:PRO:HB2	1:T:703:PRO:HD3	2.01	0.42
1:S:341:GLN:O	1:S:655:ILE:HA	2.20	0.42
1:S:354:MET:HB2	1:S:652:GLN:HE21	1.85	0.42
1:U:293:PRO:HB2	1:V:703:PRO:HD3	2.02	0.42
1:W:585:GLN:HB2	1:Y:515:HIS:NE2	2.34	0.42
1:c:341:GLN:HG2	1:c:404:MET:HG2	2.02	0.42
1:c:544:SER:O	1:c:616:ARG:NH2	2.51	0.42
1:e:243:THR:HG21	1:e:688:GLN:HE21	1.85	0.42
1:e:269:SER:HA	1:e:521:ARG:HG2	2.02	0.42
1:e:341:GLN:HG2	1:e:404:MET:HG2	2.02	0.42
1:f:354:MET:HB2	1:f:652:GLN:HE21	1.85	0.42
1:g:293:PRO:HB2	1:z:703:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:293:PRO:HB2	1:l:703:PRO:HD3	2.01	0.42
1:j:243:THR:HG21	1:j:688:GLN:HE21	1.85	0.42
1:k:279:TRP:CD1	1:k:397:LEU:HD12	2.54	0.42
1:m:703:PRO:HD3	1:r:293:PRO:HB2	2.01	0.42
1:o:699:LYS:HA	1:o:699:LYS:HD2	1.85	0.42
1:q:585:GLN:HB2	1:r:515:HIS:NE2	2.34	0.42
1:r:627:LYS:HB2	1:r:649:PRO:HG3	2.01	0.42
1:s:444:LEU:HD13	1:s:477:ARG:HG3	2.00	0.42
1:t:279:TRP:CD1	1:t:397:LEU:HD12	2.54	0.42
1:t:515:HIS:NE2	1:v:585:GLN:HB2	2.34	0.42
1:v:243:THR:HG21	1:v:688:GLN:HE21	1.85	0.42
1:z:269:SER:HA	1:z:521:ARG:HG2	2.02	0.42
1:1:341:GLN:HG2	1:1:404:MET:HG2	2.02	0.42
1:3:243:THR:HG21	1:3:688:GLN:HE21	1.85	0.42
1:5:243:THR:HG21	1:5:688:GLN:HE21	1.85	0.42
1:6:585:GLN:HB2	1:7:515:HIS:NE2	2.34	0.42
1:A:243:THR:HG21	1:A:688:GLN:HE21	1.85	0.42
1:B:309:LYS:HA	1:B:309:LYS:HD2	1.90	0.42
1:B:703:PRO:HD3	1:I:293:PRO:HB2	2.01	0.42
1:C:341:GLN:HG2	1:C:404:MET:HG2	2.02	0.42
1:D:354:MET:HB2	1:D:652:GLN:HE21	1.85	0.42
1:E:479:ASN:HD21	1:Q:641:MET:HB2	1.85	0.42
1:H:354:MET:HB2	1:H:652:GLN:HE21	1.85	0.42
1:K:700:ARG:NH1	1:K:739:THR:OG1	2.53	0.42
1:M:279:TRP:CD1	1:M:397:LEU:HD12	2.54	0.42
1:M:341:GLN:HG2	1:M:404:MET:HG2	2.02	0.42
1:N:243:THR:HG21	1:N:688:GLN:HE21	1.85	0.42
1:N:293:PRO:HB2	1:O:703:PRO:HD3	2.01	0.42
1:O:269:SER:HA	1:O:521:ARG:HG2	2.02	0.42
1:O:341:GLN:HG2	1:O:404:MET:HG2	2.02	0.42
1:P:341:GLN:HG2	1:P:404:MET:HG2	2.02	0.42
1:P:354:MET:HB2	1:P:652:GLN:HE21	1.85	0.42
1:R:700:ARG:NH1	1:R:739:THR:OG1	2.53	0.42
1:T:341:GLN:O	1:T:655:ILE:HA	2.20	0.42
1:Y:627:LYS:HB2	1:Y:649:PRO:HG3	2.01	0.42
1:Z:700:ARG:NH1	1:Z:739:THR:OG1	2.53	0.42
1:a:243:THR:HG21	1:a:688:GLN:HE21	1.85	0.42
1:b:444:LEU:HD23	1:b:444:LEU:HA	1.90	0.42
1:g:341:GLN:HG2	1:g:404:MET:HG2	2.02	0.42
1:h:341:GLN:HG2	1:h:404:MET:HG2	2.02	0.42
1:i:434:ARG:HA	1:i:434:ARG:HD3	1.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:354:MET:HB2	1:j:652:GLN:HE21	1.85	0.42
1:l:243:THR:HG21	1:l:688:GLN:HE21	1.85	0.42
1:l:269:SER:HA	1:l:521:ARG:HG2	2.02	0.42
1:m:341:GLN:O	1:m:655:ILE:HA	2.20	0.42
1:q:255:TYR:OH	1:q:372:VAL:O	2.28	0.42
1:q:700:ARG:NH1	1:q:739:THR:OG1	2.53	0.42
1:r:341:GLN:O	1:r:655:ILE:HA	2.20	0.42
1:r:354:MET:HB2	1:r:652:GLN:HE21	1.85	0.42
1:s:354:MET:HB2	1:s:652:GLN:HE21	1.85	0.42
1:v:627:LYS:HB2	1:v:649:PRO:HG3	2.01	0.42
1:z:243:THR:HG21	1:z:688:GLN:HE21	1.85	0.42
1:z:341:GLN:O	1:z:655:ILE:HA	2.20	0.42
1:1:243:THR:HG21	1:1:688:GLN:HE21	1.85	0.42
1:4:700:ARG:NH1	1:4:739:THR:OG1	2.53	0.42
1:5:354:MET:HB2	1:5:652:GLN:HE21	1.85	0.42
1:5:699:LYS:HA	1:5:699:LYS:HD2	1.85	0.42
1:7:627:LYS:HB2	1:7:649:PRO:HG3	2.01	0.42
1:8:700:ARG:NH1	1:8:739:THR:OG1	2.53	0.42
1:A:703:PRO:HD3	1:F:293:PRO:HB2	2.01	0.41
1:B:243:THR:HG21	1:B:688:GLN:HE21	1.85	0.41
1:B:269:SER:HA	1:B:521:ARG:HG2	2.02	0.41
1:D:479:ASN:HD21	1:N:641:MET:HB2	1.85	0.41
1:E:293:PRO:HB2	1:P:703:PRO:HD3	2.01	0.41
1:E:354:MET:HB2	1:E:652:GLN:HE21	1.85	0.41
1:I:341:GLN:O	1:I:655:ILE:HA	2.20	0.41
1:I:354:MET:HB2	1:I:652:GLN:HE21	1.85	0.41
1:J:354:MET:HB2	1:J:652:GLN:HE21	1.85	0.41
1:J:700:ARG:NH1	1:J:739:THR:OG1	2.53	0.41
1:K:341:GLN:O	1:K:655:ILE:HA	2.20	0.41
1:K:354:MET:HB2	1:K:652:GLN:HE21	1.85	0.41
1:L:341:GLN:O	1:L:655:ILE:HA	2.20	0.41
1:Q:444:LEU:HD23	1:Q:444:LEU:HA	1.90	0.41
1:S:279:TRP:CE2	1:S:656:LYS:HD2	2.55	0.41
1:T:434:ARG:HA	1:T:434:ARG:HD3	1.49	0.41
1:U:243:THR:HG21	1:U:688:GLN:HE21	1.85	0.41
1:W:479:ASN:HD21	1:Y:641:MET:HB2	1.85	0.41
1:a:279:TRP:CE2	1:a:656:LYS:HD2	2.55	0.41
1:b:700:ARG:NH1	1:b:739:THR:OG1	2.53	0.41
1:h:279:TRP:CD1	1:h:397:LEU:HD12	2.54	0.41
1:i:641:MET:HB2	1:k:479:ASN:HD21	1.85	0.41
1:j:341:GLN:HG2	1:j:404:MET:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:703:PRO:HD3	1:w:293:PRO:HB2	2.01	0.41
1:k:354:MET:HB2	1:k:652:GLN:HE21	1.85	0.41
1:l:341:GLN:HG2	1:l:404:MET:HG2	2.02	0.41
1:p:627:LYS:HB2	1:p:649:PRO:HG3	2.01	0.41
1:r:544:SER:O	1:r:616:ARG:NH2	2.51	0.41
1:s:544:SER:O	1:s:616:ARG:NH2	2.51	0.41
1:v:544:SER:O	1:v:616:ARG:NH2	2.51	0.41
1:w:479:ASN:HD21	1:x:641:MET:HB2	1.85	0.41
1:x:279:TRP:CD1	1:x:397:LEU:HD12	2.54	0.41
1:z:479:ASN:HD21	1:1:641:MET:HB2	1.85	0.41
1:1:269:SER:HA	1:1:521:ARG:HG2	2.02	0.41
1:4:341:GLN:O	1:4:655:ILE:HA	2.20	0.41
1:4:354:MET:HB2	1:4:652:GLN:HE21	1.85	0.41
1:6:479:ASN:HD21	1:7:641:MET:HB2	1.85	0.41
1:6:542:SER:OG	1:6:579:ASP:OD2	2.26	0.41
1:7:279:TRP:CE2	1:7:656:LYS:HD2	2.55	0.41
1:C:279:TRP:CE2	1:C:656:LYS:HD2	2.55	0.41
1:D:341:GLN:HG2	1:D:404:MET:HG2	2.02	0.41
1:E:703:PRO:HD3	1:P:293:PRO:HB2	2.01	0.41
1:G:279:TRP:CE2	1:G:656:LYS:HD2	2.55	0.41
1:G:341:GLN:O	1:G:655:ILE:HA	2.20	0.41
1:H:427:ALA:O	1:H:739:THR:HA	2.18	0.41
1:L:434:ARG:HA	1:L:434:ARG:HD3	1.49	0.41
1:N:354:MET:HB2	1:N:652:GLN:HE21	1.85	0.41
1:O:627:LYS:HB2	1:O:649:PRO:HG3	2.01	0.41
1:Q:232[A]:HIS:HD2	1:Q:245:THR:HB	1.86	0.41
1:R:232[A]:HIS:HD2	1:R:245:THR:HB	1.86	0.41
1:R:269:SER:HA	1:R:521:ARG:HG2	2.02	0.41
1:R:279:TRP:CE2	1:R:656:LYS:HD2	2.55	0.41
1:U:354:MET:HB2	1:U:652:GLN:HE21	1.85	0.41
1:V:359:GLU:OE2	1:X:467:LYS:NZ	2.41	0.41
1:V:479:ASN:HD21	1:e:641:MET:HB2	1.86	0.41
1:V:627:LYS:HB2	1:V:649:PRO:HG3	2.01	0.41
1:V:700:ARG:NH1	1:V:739:THR:OG1	2.53	0.41
1:W:243:THR:HG21	1:W:688:GLN:HE21	1.85	0.41
1:Y:279:TRP:CE2	1:Y:656:LYS:HD2	2.55	0.41
1:Y:341:GLN:O	1:Y:655:ILE:HA	2.20	0.41
1:Z:309:LYS:HA	1:Z:309:LYS:HD2	1.90	0.41
1:a:699:LYS:HA	1:a:699:LYS:HD2	1.85	0.41
1:c:232[A]:HIS:HD2	1:c:245:THR:HB	1.86	0.41
1:c:279:TRP:CE2	1:c:656:LYS:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:293:PRO:HB2	1:n:703:PRO:HD3	2.01	0.41
1:d:341:GLN:O	1:d:655:ILE:HA	2.20	0.41
1:d:354:MET:HB2	1:d:652:GLN:HE21	1.85	0.41
1:e:232[A]:HIS:HD2	1:e:245:THR:HB	1.86	0.41
1:e:544:SER:O	1:e:616:ARG:NH2	2.51	0.41
1:f:700:ARG:NH1	1:f:739:THR:OG1	2.53	0.41
1:i:243:THR:HG21	1:i:688:GLN:HE21	1.85	0.41
1:i:354:MET:HB2	1:i:652:GLN:HE21	1.85	0.41
1:j:293:PRO:HB2	1:w:703:PRO:HD3	2.01	0.41
1:k:232[A]:HIS:HD2	1:k:245:THR:HB	1.85	0.41
1:l:627:LYS:HB2	1:l:649:PRO:HG3	2.01	0.41
1:m:293:PRO:HB2	1:r:703:PRO:HD3	2.01	0.41
1:r:279:TRP:CE2	1:r:656:LYS:HD2	2.56	0.41
1:r:636:HIS:O	1:r:638:SER:N	2.47	0.41
1:s:341:GLN:O	1:s:655:ILE:HA	2.20	0.41
1:t:279:TRP:CE2	1:t:656:LYS:HD2	2.55	0.41
1:u:341:GLN:O	1:u:655:ILE:HA	2.20	0.41
1:u:354:MET:HB2	1:u:652:GLN:HE21	1.85	0.41
1:v:269:SER:HA	1:v:521:ARG:HG2	2.02	0.41
1:w:354:MET:HB2	1:w:652:GLN:HE21	1.85	0.41
1:w:585:GLN:HB2	1:x:515:HIS:NE2	2.34	0.41
1:x:232[A]:HIS:HD2	1:x:245:THR:HB	1.86	0.41
1:2:700:ARG:NH1	1:2:739:THR:OG1	2.53	0.41
1:3:279:TRP:CE2	1:3:656:LYS:HD2	2.55	0.41
1:6:243:THR:HG21	1:6:688:GLN:HE21	1.85	0.41
1:A:269:SER:HA	1:A:521:ARG:HG2	2.02	0.41
1:B:279:TRP:CD1	1:B:397:LEU:HD12	2.54	0.41
1:B:641:MET:HB2	1:L:479:ASN:HD21	1.86	0.41
1:B:700:ARG:NH1	1:B:739:THR:OG1	2.53	0.41
1:C:479:ASN:HD21	1:b:641:MET:HB2	1.86	0.41
1:D:232[A]:HIS:HD2	1:D:245:THR:HB	1.85	0.41
1:E:243:THR:HG21	1:E:688:GLN:HE21	1.85	0.41
1:E:585:GLN:HB2	1:Q:515:HIS:NE2	2.34	0.41
1:G:243:THR:HG21	1:G:688:GLN:HE21	1.85	0.41
1:G:700:ARG:NH1	1:G:739:THR:OG1	2.53	0.41
1:I:700:ARG:NH1	1:I:739:THR:OG1	2.53	0.41
1:K:641:MET:HB2	1:8:479:ASN:HD21	1.86	0.41
1:L:279:TRP:CE2	1:L:656:LYS:HD2	2.55	0.41
1:N:279:TRP:CE2	1:N:656:LYS:HD2	2.55	0.41
1:Q:279:TRP:CD1	1:Q:397:LEU:HD12	2.54	0.41
1:Q:703:PRO:HD3	1:R:293:PRO:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:585:GLN:HB2	1:S:515:HIS:NE2	2.34	0.41
1:T:255:TYR:OH	1:T:372:VAL:O	2.28	0.41
1:U:341:GLN:O	1:U:655:ILE:HA	2.20	0.41
1:U:544:SER:O	1:U:616:ARG:NH2	2.51	0.41
1:W:354:MET:HB2	1:W:652:GLN:HE21	1.85	0.41
1:X:243:THR:HG21	1:X:688:GLN:HE21	1.85	0.41
1:b:279:TRP:CE2	1:b:656:LYS:HD2	2.55	0.41
1:b:309:LYS:HA	1:b:309:LYS:HD2	1.90	0.41
1:c:341:GLN:O	1:c:655:ILE:HA	2.20	0.41
1:c:354:MET:HB2	1:c:652:GLN:HE21	1.85	0.41
1:c:641:MET:HB2	1:p:479:ASN:HD21	1.86	0.41
1:d:703:PRO:HD3	1:n:293:PRO:HB2	2.01	0.41
1:e:341:GLN:O	1:e:655:ILE:HA	2.20	0.41
1:f:641:MET:HB2	1:g:479:ASN:HD21	1.86	0.41
1:f:699:LYS:HD2	1:f:699:LYS:HA	1.85	0.41
1:g:279:TRP:CE2	1:g:656:LYS:HD2	2.56	0.41
1:g:444:LEU:HD23	1:g:444:LEU:HA	1.90	0.41
1:h:354:MET:HB2	1:h:652:GLN:HE21	1.85	0.41
1:i:279:TRP:CE2	1:i:656:LYS:HD2	2.55	0.41
1:j:627:LYS:HB2	1:j:649:PRO:HG3	2.01	0.41
1:k:341:GLN:HG2	1:k:404:MET:HG2	2.02	0.41
1:m:255:TYR:OH	1:m:372:VAL:O	2.28	0.41
1:o:243:THR:HG21	1:o:688:GLN:HE21	1.85	0.41
1:p:279:TRP:CE2	1:p:656:LYS:HD2	2.55	0.41
1:p:700:ARG:NH1	1:p:739:THR:OG1	2.53	0.41
1:q:232[A]:HIS:HD2	1:q:245:THR:HB	1.86	0.41
1:q:269:SER:HA	1:q:521:ARG:HG2	2.02	0.41
1:q:279:TRP:CE2	1:q:656:LYS:HD2	2.56	0.41
1:q:293:PRO:HB2	1:x:703:PRO:HD3	2.01	0.41
1:t:243:THR:HG21	1:t:688:GLN:HE21	1.85	0.41
1:t:341:GLN:O	1:t:655:ILE:HA	2.20	0.41
1:v:703:PRO:HD3	1:y:293:PRO:HB2	2.01	0.41
1:w:243:THR:HG21	1:w:688:GLN:HE21	1.85	0.41
1:z:641:MET:HB2	1:2:479:ASN:HD21	1.86	0.41
1:1:279:TRP:CD1	1:1:397:LEU:HD12	2.54	0.41
1:2:354:MET:HB2	1:2:652:GLN:HE21	1.85	0.41
1:5:427:ALA:O	1:5:739:THR:HA	2.18	0.41
1:6:354:MET:HB2	1:6:652:GLN:HE21	1.85	0.41
1:7:243:THR:HG21	1:7:688:GLN:HE21	1.85	0.41
1:7:341:GLN:O	1:7:655:ILE:HA	2.20	0.41
1:A:544:SER:O	1:A:616:ARG:NH2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:232[A]:HIS:HD2	1:C:245:THR:HB	1.86	0.41
1:C:309:LYS:HA	1:C:309:LYS:HD2	1.90	0.41
1:C:341:GLN:O	1:C:655:ILE:HA	2.20	0.41
1:D:634[B]:HIS:HD2	1:P:612:VAL:CG1	2.34	0.41
1:F:269:SER:HA	1:F:521:ARG:HG2	2.02	0.41
1:F:441:ASP:OD1	1:F:470:THR:N	2.43	0.41
1:F:444:LEU:HD23	1:F:444:LEU:HA	1.90	0.41
1:F:700:ARG:NH1	1:F:739:THR:OG1	2.53	0.41
1:G:288:HIS:ND1	1:G:364:PRO:HB3	2.36	0.41
1:H:288:HIS:ND1	1:H:364:PRO:HB3	2.36	0.41
1:J:479:ASN:HD21	1:L:641:MET:HB2	1.86	0.41
1:J:717:MET:HE3	1:a:275:PHE:HE2	1.81	0.41
1:K:441:ASP:OD1	1:K:470:THR:N	2.43	0.41
1:M:232[A]:HIS:HD2	1:M:245:THR:HB	1.86	0.41
1:M:354:MET:HB2	1:M:652:GLN:HE21	1.85	0.41
1:N:441:ASP:OD1	1:N:470:THR:N	2.43	0.41
1:P:279:TRP:CE2	1:P:656:LYS:HD2	2.55	0.41
1:P:627:LYS:HB2	1:P:649:PRO:HG3	2.01	0.41
1:S:544:SER:O	1:S:616:ARG:NH2	2.51	0.41
1:S:703:PRO:HD3	1:T:293:PRO:HB2	2.01	0.41
1:U:341:GLN:HG2	1:U:404:MET:HG2	2.02	0.41
1:U:441:ASP:OD1	1:U:470:THR:N	2.43	0.41
1:V:279:TRP:CE2	1:V:656:LYS:HD2	2.56	0.41
1:W:232[A]:HIS:HD2	1:W:245:THR:HB	1.85	0.41
1:W:269:SER:HA	1:W:521:ARG:HG2	2.02	0.41
1:X:631:THR:HG1	1:X:634[B]:HIS:HE2	1.59	0.41
1:X:700:ARG:NH1	1:X:739:THR:OG1	2.53	0.41
1:Y:243:THR:HG21	1:Y:688:GLN:HE21	1.85	0.41
1:Z:243:THR:HG21	1:Z:688:GLN:HE21	1.85	0.41
1:Z:479:ASN:HD21	1:4:641:MET:HB2	1.86	0.41
1:Z:515:HIS:NE2	1:3:585:GLN:HB2	2.34	0.41
1:d:243:THR:HG21	1:d:688:GLN:HE21	1.85	0.41
1:e:279:TRP:CE2	1:e:656:LYS:HD2	2.56	0.41
1:e:354:MET:HB2	1:e:652:GLN:HE21	1.85	0.41
1:f:279:TRP:CE2	1:f:656:LYS:HD2	2.56	0.41
1:g:232[A]:HIS:HD2	1:g:245:THR:HB	1.86	0.41
1:g:341:GLN:O	1:g:655:ILE:HA	2.20	0.41
1:h:232[A]:HIS:HD2	1:h:245:THR:HB	1.85	0.41
1:j:279:TRP:CE2	1:j:656:LYS:HD2	2.55	0.41
1:j:612:VAL:CG1	1:k:634[B]:HIS:HD2	2.34	0.41
1:n:243:THR:HG21	1:n:688:GLN:HE21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:341:GLN:O	1:n:655:ILE:HA	2.20	0.41
1:n:354:MET:HB2	1:n:652:GLN:HE21	1.85	0.41
1:o:341:GLN:O	1:o:655:ILE:HA	2.20	0.41
1:s:243:THR:HG21	1:s:688:GLN:HE21	1.85	0.41
1:t:288:HIS:ND1	1:t:364:PRO:HB3	2.36	0.41
1:t:700:ARG:NH1	1:t:739:THR:OG1	2.53	0.41
1:z:279:TRP:CE2	1:z:656:LYS:HD2	2.56	0.41
1:1:700:ARG:NH1	1:1:739:THR:OG1	2.53	0.41
1:2:293:PRO:HB2	1:4:703:PRO:HD3	2.01	0.41
1:3:309:LYS:HA	1:3:309:LYS:HD2	1.90	0.41
1:3:354:MET:HB2	1:3:652:GLN:HE21	1.85	0.41
1:5:288:HIS:ND1	1:5:364:PRO:HB3	2.36	0.41
1:6:269:SER:HA	1:6:521:ARG:HG2	2.02	0.41
1:8:243:THR:HG21	1:8:688:GLN:HE21	1.85	0.41
1:A:350:LEU:CD1	1:A:397:LEU:HD22	2.51	0.41
1:A:617:ASP:OD1	1:A:618:ILE:N	2.54	0.41
1:B:296:TRP:O	1:B:300:ILE:HG12	2.21	0.41
1:B:740:HIS:HD2	1:J:630:HIS:HD2	1.69	0.41
1:C:436:MET:SD	1:C:473:PHE:CD1	3.14	0.41
1:C:444:LEU:HD23	1:C:444:LEU:HA	1.90	0.41
1:E:269:SER:HA	1:E:521:ARG:HG2	2.02	0.41
1:H:309:LYS:HA	1:H:309:LYS:HD2	1.90	0.41
1:H:473:PHE:HA	1:H:476:TYR:CD2	2.56	0.41
1:J:293:PRO:HB2	1:K:703:PRO:HD3	2.01	0.41
1:J:341:GLN:HG2	1:J:404:MET:HG2	2.02	0.41
1:K:288:HIS:ND1	1:K:364:PRO:HB3	2.36	0.41
1:K:424:SER:HB2	1:K:426:TYR:CE2	2.56	0.41
1:K:479:ASN:HD21	1:a:641:MET:HB2	1.86	0.41
1:O:279:TRP:CE2	1:O:656:LYS:HD2	2.55	0.41
1:O:479:ASN:HD21	1:m:641:MET:HB2	1.86	0.41
1:Q:441:ASP:OD1	1:Q:470:THR:N	2.43	0.41
1:T:641:MET:HB2	1:l:479:ASN:HD21	1.86	0.41
1:V:288:HIS:ND1	1:V:364:PRO:HB3	2.36	0.41
1:V:436:MET:SD	1:V:473:PHE:CD1	3.14	0.41
1:X:341:GLN:O	1:X:655:ILE:HA	2.20	0.41
1:X:354:MET:HB2	1:X:652:GLN:HE21	1.85	0.41
1:a:232[A]:HIS:HD2	1:a:245:THR:HB	1.86	0.41
1:a:341:GLN:HG2	1:a:404:MET:HG2	2.02	0.41
1:a:354:MET:HB2	1:a:652:GLN:HE21	1.85	0.41
1:a:585:GLN:HB2	1:8:515:HIS:NE2	2.34	0.41
1:a:636:HIS:O	1:a:638:SER:N	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:269:SER:HA	1:b:521:ARG:HG2	2.02	0.41
1:b:350:LEU:CD1	1:b:397:LEU:HD22	2.51	0.41
1:c:700:ARG:NH1	1:c:739:THR:OG1	2.53	0.41
1:f:269:SER:HA	1:f:521:ARG:HG2	2.02	0.41
1:f:309:LYS:HA	1:f:309:LYS:HD2	1.90	0.41
1:g:436:MET:SD	1:g:473:PHE:CD1	3.14	0.41
1:i:700:ARG:NH1	1:i:739:THR:OG1	2.53	0.41
1:k:436:MET:SD	1:k:473:PHE:CD1	3.14	0.41
1:l:279:TRP:CE2	1:l:656:LYS:HD2	2.55	0.41
1:m:269:SER:HA	1:m:521:ARG:HG2	2.02	0.41
1:n:232[A]:HIS:HD2	1:n:245:THR:HB	1.86	0.41
1:o:700:ARG:NH1	1:o:739:THR:OG1	2.53	0.41
1:p:436:MET:SD	1:p:473:PHE:CD1	3.14	0.41
1:q:341:GLN:O	1:q:655:ILE:HA	2.20	0.41
1:s:341:GLN:HG2	1:s:404:MET:HG2	2.02	0.41
1:u:232[A]:HIS:HD2	1:u:245:THR:HB	1.86	0.41
1:v:350:LEU:CD1	1:v:397:LEU:HD22	2.51	0.41
1:v:617:ASP:OD1	1:v:618:ILE:N	2.54	0.41
1:w:269:SER:HA	1:w:521:ARG:HG2	2.02	0.41
1:x:341:GLN:O	1:x:655:ILE:HA	2.20	0.41
1:y:269:SER:HA	1:y:521:ARG:HG2	2.02	0.41
1:1:288:HIS:ND1	1:1:364:PRO:HB3	2.36	0.41
1:1:389:THR:H	1:1:392:ASN:HD22	1.69	0.41
1:2:341:GLN:HG2	1:2:404:MET:HG2	2.02	0.41
1:3:232[A]:HIS:HD2	1:3:245:THR:HB	1.86	0.41
1:3:641:MET:HB2	1:4:479:ASN:HD21	1.86	0.41
1:4:279:TRP:CE2	1:4:656:LYS:HD2	2.56	0.41
1:4:341:GLN:HG2	1:4:404:MET:HG2	2.02	0.41
1:4:424:SER:HB2	1:4:426:TYR:CE2	2.56	0.41
1:4:441:ASP:OD1	1:4:470:THR:N	2.43	0.41
1:5:473:PHE:HA	1:5:476:TYR:CD2	2.56	0.41
1:6:232[A]:HIS:HD2	1:6:245:THR:HB	1.85	0.41
1:7:365:PHE:HA	1:7:366:PRO:HD3	1.94	0.41
1:7:700:ARG:NH1	1:7:739:THR:OG1	2.53	0.41
1:8:576:ASN:HD21	1:8:613:TRP:CB	2.33	0.41
1:B:288:HIS:ND1	1:B:364:PRO:HB3	2.36	0.41
1:B:365:PHE:HA	1:B:366:PRO:HD3	1.94	0.41
1:B:389:THR:H	1:B:392:ASN:HD22	1.69	0.41
1:C:350:LEU:CD1	1:C:397:LEU:HD22	2.51	0.41
1:D:436:MET:SD	1:D:473:PHE:CD1	3.14	0.41
1:D:641:MET:HB2	1:P:479:ASN:HD21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:700:ARG:NH1	1:D:739:THR:OG1	2.53	0.41
1:E:473:PHE:HA	1:E:476:TYR:CD2	2.56	0.41
1:F:341:GLN:O	1:F:655:ILE:HA	2.20	0.41
1:I:232[A]:HIS:HD2	1:I:245:THR:HB	1.86	0.41
1:J:436:MET:SD	1:J:473:PHE:CD1	3.14	0.41
1:J:612:VAL:CG1	1:L:634[B]:HIS:HD2	2.34	0.41
1:K:279:TRP:CE2	1:K:656:LYS:HD2	2.56	0.41
1:K:341:GLN:HG2	1:K:404:MET:HG2	2.02	0.41
1:K:436:MET:SD	1:K:473:PHE:CD1	3.14	0.41
1:M:288:HIS:ND1	1:M:364:PRO:HB3	2.36	0.41
1:M:576:ASN:HD21	1:M:613:TRP:CB	2.33	0.41
1:M:641:MET:HB2	1:b:479:ASN:HD21	1.86	0.41
1:N:436:MET:SD	1:N:473:PHE:CD1	3.14	0.41
1:N:700:ARG:NH1	1:N:739:THR:OG1	2.53	0.41
1:O:232[A]:HIS:HD2	1:O:245:THR:HB	1.86	0.41
1:Q:341:GLN:O	1:Q:655:ILE:HA	2.20	0.41
1:R:341:GLN:O	1:R:655:ILE:HA	2.20	0.41
1:R:634[B]:HIS:HD2	1:U:612:VAL:CG1	2.33	0.41
1:S:296:TRP:O	1:S:300:ILE:HG12	2.21	0.41
1:S:473:PHE:HA	1:S:476:TYR:CD2	2.56	0.41
1:T:269:SER:HA	1:T:521:ARG:HG2	2.02	0.41
1:T:279:TRP:CE2	1:T:656:LYS:HD2	2.56	0.41
1:T:473:PHE:HA	1:T:476:TYR:CD2	2.56	0.41
1:V:424:SER:HB2	1:V:426:TYR:CE2	2.56	0.41
1:X:255:TYR:OH	1:X:372:VAL:O	2.28	0.41
1:X:288:HIS:ND1	1:X:364:PRO:HB3	2.36	0.41
1:X:350:LEU:CD1	1:X:397:LEU:HD22	2.51	0.41
1:X:630:HIS:HD2	1:e:740:HIS:CD2	2.36	0.41
1:Y:288:HIS:ND1	1:Y:364:PRO:HB3	2.36	0.41
1:Y:436:MET:SD	1:Y:473:PHE:CD1	3.14	0.41
1:Y:700:ARG:NH1	1:Y:739:THR:OG1	2.53	0.41
1:Z:576:ASN:HD21	1:Z:613:TRP:CB	2.33	0.41
1:b:232[A]:HIS:HD2	1:b:245:THR:HB	1.86	0.41
1:c:740:HIS:CD2	1:o:630:HIS:HD2	2.36	0.41
1:d:232[A]:HIS:HD2	1:d:245:THR:HB	1.86	0.41
1:d:296:TRP:O	1:d:300:ILE:HG12	2.21	0.41
1:d:424:SER:HB2	1:d:426:TYR:CE2	2.56	0.41
1:e:700:ARG:NH1	1:e:739:THR:OG1	2.53	0.41
1:f:350:LEU:CD1	1:f:397:LEU:HD22	2.51	0.41
1:f:479:ASN:HD21	1:h:641:MET:HB2	1.86	0.41
1:g:288:HIS:ND1	1:g:364:PRO:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:350:LEU:CD1	1:g:397:LEU:HD22	2.51	0.41
1:h:288:HIS:ND1	1:h:364:PRO:HB3	2.36	0.41
1:i:288:HIS:ND1	1:i:364:PRO:HB3	2.36	0.41
1:j:479:ASN:HD21	1:k:641:MET:HB2	1.86	0.41
1:k:700:ARG:NH1	1:k:739:THR:OG1	2.53	0.41
1:m:279:TRP:CE2	1:m:656:LYS:HD2	2.56	0.41
1:n:296:TRP:O	1:n:300:ILE:HG12	2.21	0.41
1:n:424:SER:HB2	1:n:426:TYR:CE2	2.56	0.41
1:o:350:LEU:CD1	1:o:397:LEU:HD22	2.51	0.41
1:o:354:MET:HB2	1:o:652:GLN:HE21	1.85	0.41
1:o:631:THR:HG1	1:o:634[B]:HIS:HE2	1.59	0.41
1:p:288:HIS:ND1	1:p:364:PRO:HB3	2.36	0.41
1:t:444:LEU:HD23	1:t:444:LEU:HA	1.90	0.41
1:u:424:SER:HB2	1:u:426:TYR:CE2	2.56	0.41
1:v:354:MET:HB2	1:v:652:GLN:HE21	1.85	0.41
1:v:424:SER:HB2	1:v:426:TYR:CE2	2.56	0.41
1:w:341:GLN:O	1:w:655:ILE:HA	2.20	0.41
1:w:473:PHE:HA	1:w:476:TYR:CD2	2.56	0.41
1:w:641:MET:HB2	1:y:479:ASN:HD21	1.86	0.41
1:y:700:ARG:NH1	1:y:739:THR:OG1	2.53	0.41
1:1:296:TRP:O	1:1:300:ILE:HG12	2.21	0.41
1:2:341:GLN:O	1:2:655:ILE:HA	2.20	0.41
1:2:436:MET:SD	1:2:473:PHE:CD1	3.14	0.41
1:2:717:MET:HE3	1:3:275:PHE:HE2	1.81	0.41
1:3:341:GLN:HG2	1:3:404:MET:HG2	2.02	0.41
1:4:288:HIS:ND1	1:4:364:PRO:HB3	2.36	0.41
1:4:436:MET:SD	1:4:473:PHE:CD1	3.14	0.41
1:4:617:ASP:OD1	1:4:618:ILE:N	2.54	0.41
1:7:288:HIS:ND1	1:7:364:PRO:HB3	2.36	0.41
1:7:436:MET:SD	1:7:473:PHE:CD1	3.14	0.41
1:8:269:SER:HA	1:8:521:ARG:HG2	2.02	0.41
1:A:354:MET:HB2	1:A:652:GLN:HE21	1.85	0.41
1:A:424:SER:HB2	1:A:426:TYR:CE2	2.56	0.41
1:B:627:LYS:HB2	1:B:649:PRO:HG3	2.01	0.41
1:E:279:TRP:CE2	1:E:656:LYS:HD2	2.55	0.41
1:E:641:MET:HB2	1:F:479:ASN:HD21	1.86	0.41
1:F:473:PHE:HA	1:F:476:TYR:CD2	2.56	0.41
1:G:436:MET:SD	1:G:473:PHE:CD1	3.14	0.41
1:G:585:GLN:HB2	1:I:515:HIS:NE2	2.34	0.41
1:G:703:PRO:HD3	1:H:293:PRO:HB2	2.01	0.41
1:H:424:SER:HB2	1:H:426:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:612:VAL:CG1	1:W:634[B]:HIS:HD2	2.34	0.41
1:I:424:SER:HB2	1:I:426:TYR:CE2	2.56	0.41
1:J:341:GLN:O	1:J:655:ILE:HA	2.20	0.41
1:J:441:ASP:OD1	1:J:470:THR:N	2.43	0.41
1:K:617:ASP:OD1	1:K:618:ILE:N	2.54	0.41
1:L:288:HIS:ND1	1:L:364:PRO:HB3	2.36	0.41
1:L:617:ASP:OD1	1:L:618:ILE:N	2.54	0.41
1:L:700:ARG:NH1	1:L:739:THR:OG1	2.53	0.41
1:M:617:ASP:OD1	1:M:618:ILE:N	2.54	0.41
1:N:288:HIS:ND1	1:N:364:PRO:HB3	2.36	0.41
1:O:296:TRP:O	1:O:300:ILE:HG12	2.21	0.41
1:O:617:ASP:OD1	1:O:618:ILE:N	2.54	0.41
1:O:700:ARG:NH1	1:O:739:THR:OG1	2.53	0.41
1:Q:269:SER:HA	1:Q:521:ARG:HG2	2.02	0.41
1:U:436:MET:SD	1:U:473:PHE:CD1	3.14	0.41
1:V:389:THR:H	1:V:392:ASN:HD22	1.69	0.41
1:W:350:LEU:CD1	1:W:397:LEU:HD22	2.51	0.41
1:W:424:SER:HB2	1:W:426:TYR:CE2	2.56	0.41
1:X:389:THR:H	1:X:392:ASN:HD22	1.69	0.41
1:X:576:ASN:HD21	1:X:613:TRP:CB	2.33	0.41
1:Z:341:GLN:HG2	1:Z:404:MET:HG2	2.02	0.41
1:a:288:HIS:ND1	1:a:364:PRO:HB3	2.36	0.41
1:a:436:MET:SD	1:a:473:PHE:CD1	3.14	0.41
1:b:389:THR:H	1:b:392:ASN:HD22	1.69	0.41
1:b:436:MET:SD	1:b:473:PHE:CD1	3.14	0.41
1:c:473:PHE:HA	1:c:476:TYR:CD2	2.56	0.41
1:c:634[B]:HIS:HD2	1:p:612:VAL:CG1	2.34	0.41
1:d:279:TRP:CE2	1:d:656:LYS:HD2	2.55	0.41
1:d:479:ASN:HD21	1:l:641:MET:HB2	1.86	0.41
1:e:473:PHE:HA	1:e:476:TYR:CD2	2.56	0.41
1:f:232[A]:HIS:HD2	1:f:245:THR:HB	1.86	0.41
1:f:389:THR:H	1:f:392:ASN:HD22	1.69	0.41
1:f:436:MET:SD	1:f:473:PHE:CD1	3.14	0.41
1:h:279:TRP:CE2	1:h:656:LYS:HD2	2.55	0.41
1:h:576:ASN:HD21	1:h:613:TRP:CB	2.33	0.41
1:i:436:MET:SD	1:i:473:PHE:CD1	3.14	0.41
1:k:279:TRP:CE2	1:k:656:LYS:HD2	2.55	0.41
1:k:389:THR:H	1:k:392:ASN:HD22	1.69	0.41
1:l:232[A]:HIS:HD2	1:l:245:THR:HB	1.86	0.41
1:l:296:TRP:O	1:l:300:ILE:HG12	2.21	0.41
1:l:617:ASP:OD1	1:l:618:ILE:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:700:ARG:NH1	1:l:739:THR:OG1	2.53	0.41
1:m:350:LEU:CD1	1:m:397:LEU:HD22	2.51	0.41
1:m:436:MET:SD	1:m:473:PHE:CD1	3.14	0.41
1:m:473:PHE:HA	1:m:476:TYR:CD2	2.56	0.41
1:n:279:TRP:CE2	1:n:656:LYS:HD2	2.55	0.41
1:o:288:HIS:ND1	1:o:364:PRO:HB3	2.36	0.41
1:o:389:THR:H	1:o:392:ASN:HD22	1.69	0.41
1:o:473:PHE:HA	1:o:476:TYR:CD2	2.56	0.41
1:o:576:ASN:HD21	1:o:613:TRP:CB	2.33	0.41
1:p:424:SER:HB2	1:p:426:TYR:CE2	2.56	0.41
1:q:341:GLN:HG2	1:q:404:MET:HG2	2.02	0.41
1:q:436:MET:SD	1:q:473:PHE:CD1	3.14	0.41
1:q:641:MET:HB2	1:s:479:ASN:HD21	1.86	0.41
1:r:296:TRP:O	1:r:300:ILE:HG12	2.21	0.41
1:t:436:MET:SD	1:t:473:PHE:CD1	3.14	0.41
1:t:703:PRO:HD3	1:5:293:PRO:HB2	2.01	0.41
1:u:279:TRP:CE2	1:u:656:LYS:HD2	2.55	0.41
1:v:341:GLN:HG2	1:v:404:MET:HG2	2.02	0.41
1:x:269:SER:HA	1:x:521:ARG:HG2	2.02	0.41
1:x:341:GLN:HG2	1:x:404:MET:HG2	2.02	0.41
1:x:441:ASP:OD1	1:x:470:THR:N	2.43	0.41
1:y:341:GLN:O	1:y:655:ILE:HA	2.20	0.41
1:y:397:LEU:C	1:y:399:TYR:H	2.29	0.41
1:y:473:PHE:HA	1:y:476:TYR:CD2	2.56	0.41
1:z:288:HIS:ND1	1:z:364:PRO:HB3	2.36	0.41
1:z:617:ASP:OD1	1:z:618:ILE:N	2.54	0.41
1:z:634[B]:HIS:HD2	1:2:612:VAL:CG1	2.34	0.41
1:1:627:LYS:HB2	1:1:649:PRO:HG3	2.01	0.41
1:1:740:HIS:HD2	1:2:630:HIS:HD2	1.69	0.41
1:2:627:LYS:HB2	1:2:649:PRO:HG3	2.01	0.41
1:3:288:HIS:ND1	1:3:364:PRO:HB3	2.36	0.41
1:3:341:GLN:O	1:3:655:ILE:HA	2.20	0.41
1:3:436:MET:SD	1:3:473:PHE:CD1	3.14	0.41
1:5:424:SER:HB2	1:5:426:TYR:CE2	2.56	0.41
1:5:612:VAL:CG1	1:6:634[B]:HIS:HD2	2.34	0.41
1:6:296:TRP:O	1:6:300:ILE:HG12	2.21	0.41
1:6:350:LEU:CD1	1:6:397:LEU:HD22	2.51	0.41
1:6:424:SER:HB2	1:6:426:TYR:CE2	2.56	0.41
1:7:232[A]:HIS:HD2	1:7:245:THR:HB	1.86	0.41
1:7:473:PHE:HA	1:7:476:TYR:CD2	2.56	0.41
1:8:341:GLN:HG2	1:8:404:MET:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:341:GLN:HG2	1:A:404:MET:HG2	2.02	0.41
1:C:288:HIS:ND1	1:C:364:PRO:HB3	2.36	0.41
1:D:279:TRP:CE2	1:D:656:LYS:HD2	2.55	0.41
1:D:288:HIS:ND1	1:D:364:PRO:HB3	2.36	0.41
1:D:389:THR:H	1:D:392:ASN:HD22	1.69	0.41
1:E:341:GLN:O	1:E:655:ILE:HA	2.20	0.41
1:E:350:LEU:CD1	1:E:397:LEU:HD22	2.51	0.41
1:F:397:LEU:C	1:F:399:TYR:H	2.29	0.41
1:G:389:THR:H	1:G:392:ASN:HD22	1.69	0.41
1:H:617:ASP:OD1	1:H:618:ILE:N	2.54	0.41
1:J:424:SER:HB2	1:J:426:TYR:CE2	2.56	0.41
1:K:473:PHE:HA	1:K:476:TYR:CD2	2.56	0.41
1:N:341:GLN:HG2	1:N:404:MET:HG2	2.02	0.41
1:N:350:LEU:CD1	1:N:397:LEU:HD22	2.51	0.41
1:N:434:ARG:HA	1:N:434:ARG:HD3	1.49	0.41
1:N:617:ASP:OD1	1:N:618:ILE:N	2.54	0.41
1:O:612:VAL:CG1	1:m:634[B]:HIS:HD2	2.34	0.41
1:O:641:MET:HB2	1:n:479:ASN:HD21	1.86	0.41
1:Q:341:GLN:HG2	1:Q:404:MET:HG2	2.02	0.41
1:Q:436:MET:SD	1:Q:473:PHE:CD1	3.14	0.41
1:R:341:GLN:HG2	1:R:404:MET:HG2	2.02	0.41
1:R:358:GLN:HE21	1:U:476:TYR:HE1	1.69	0.41
1:R:436:MET:SD	1:R:473:PHE:CD1	3.14	0.41
1:T:350:LEU:CD1	1:T:397:LEU:HD22	2.51	0.41
1:T:436:MET:SD	1:T:473:PHE:CD1	3.14	0.41
1:T:612:VAL:CG1	1:d:634[B]:HIS:HD2	2.34	0.41
1:U:424:SER:HB2	1:U:426:TYR:CE2	2.56	0.41
1:V:341:GLN:HG2	1:V:404:MET:HG2	2.02	0.41
1:V:612:VAL:CG1	1:e:634[B]:HIS:HD2	2.34	0.41
1:W:279:TRP:CE2	1:W:656:LYS:HD2	2.55	0.41
1:W:296:TRP:O	1:W:300:ILE:HG12	2.21	0.41
1:W:389:THR:H	1:W:392:ASN:HD22	1.69	0.41
1:W:441:ASP:OD1	1:W:470:THR:N	2.43	0.41
1:X:473:PHE:HA	1:X:476:TYR:CD2	2.56	0.41
1:Y:296:TRP:O	1:Y:300:ILE:HG12	2.21	0.41
1:Y:473:PHE:HA	1:Y:476:TYR:CD2	2.56	0.41
1:Z:269:SER:HA	1:Z:521:ARG:HG2	2.02	0.41
1:Z:288:HIS:ND1	1:Z:364:PRO:HB3	2.36	0.41
1:Z:630:HIS:HD2	1:3:740:HIS:HD2	1.69	0.41
1:a:309:LYS:HA	1:a:309:LYS:HD2	1.90	0.41
1:a:617:ASP:OD1	1:a:618:ILE:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:341:GLN:HG2	1:b:404:MET:HG2	2.02	0.41
1:b:397:LEU:C	1:b:399:TYR:H	2.29	0.41
1:b:473:PHE:HA	1:b:476:TYR:CD2	2.56	0.41
1:b:617:ASP:OD1	1:b:618:ILE:N	2.54	0.41
1:f:341:GLN:HG2	1:f:404:MET:HG2	2.02	0.41
1:f:617:ASP:OD1	1:f:618:ILE:N	2.54	0.41
1:h:617:ASP:OD1	1:h:618:ILE:N	2.54	0.41
1:i:350:LEU:CD1	1:i:397:LEU:HD22	2.51	0.41
1:i:441:ASP:OD1	1:i:470:THR:N	2.43	0.41
1:j:436:MET:SD	1:j:473:PHE:CD1	3.14	0.41
1:j:473:PHE:HA	1:j:476:TYR:CD2	2.56	0.41
1:k:288:HIS:ND1	1:k:364:PRO:HB3	2.36	0.41
1:m:612:VAL:CG1	1:n:634[B]:HIS:HD2	2.34	0.41
1:n:473:PHE:HA	1:n:476:TYR:CD2	2.56	0.41
1:o:255:TYR:OH	1:o:372:VAL:O	2.28	0.41
1:o:479:ASN:HD21	1:p:641:MET:HB2	1.86	0.41
1:p:389:THR:H	1:p:392:ASN:HD22	1.69	0.41
1:r:473:PHE:HA	1:r:476:TYR:CD2	2.56	0.41
1:r:612:VAL:CG1	1:s:634[B]:HIS:HD2	2.34	0.41
1:s:424:SER:HB2	1:s:426:TYR:CE2	2.56	0.41
1:s:436:MET:SD	1:s:473:PHE:CD1	3.14	0.41
1:t:389:THR:H	1:t:392:ASN:HD22	1.69	0.41
1:v:636:HIS:O	1:v:638:SER:N	2.47	0.41
1:w:279:TRP:CE2	1:w:656:LYS:HD2	2.55	0.41
1:w:350:LEU:CD1	1:w:397:LEU:HD22	2.51	0.41
1:x:436:MET:SD	1:x:473:PHE:CD1	3.14	0.41
1:y:441:ASP:OD1	1:y:470:THR:N	2.43	0.41
1:z:232[A]:HIS:HD2	1:z:245:THR:HB	1.86	0.41
1:z:700:ARG:NH1	1:z:739:THR:OG1	2.53	0.41
1:1:354:MET:HB2	1:1:652:GLN:HE21	1.85	0.41
1:1:612:VAL:CG1	1:2:634[B]:HIS:HD2	2.34	0.41
1:3:617:ASP:OD1	1:3:618:ILE:N	2.54	0.41
1:4:473:PHE:HA	1:4:476:TYR:CD2	2.56	0.41
1:5:617:ASP:OD1	1:5:618:ILE:N	2.54	0.41
1:7:296:TRP:O	1:7:300:ILE:HG12	2.21	0.41
1:8:288:HIS:ND1	1:8:364:PRO:HB3	2.36	0.41
1:A:232[A]:HIS:HD2	1:A:245:THR:HB	1.85	0.41
1:A:397:LEU:C	1:A:399:TYR:H	2.29	0.41
1:A:612:VAL:CG1	1:G:634[B]:HIS:HD2	2.34	0.41
1:B:279:TRP:CE2	1:B:656:LYS:HD2	2.56	0.41
1:B:341:GLN:O	1:B:655:ILE:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:354:MET:HB2	1:B:652:GLN:HE21	1.85	0.41
1:B:436:MET:SD	1:B:473:PHE:CD1	3.14	0.41
1:B:479:ASN:HD21	1:J:641:MET:HB2	1.86	0.41
1:B:612:VAL:CG1	1:J:634[B]:HIS:HD2	2.34	0.41
1:C:389:THR:H	1:C:392:ASN:HD22	1.69	0.41
1:D:424:SER:HB2	1:D:426:TYR:CE2	2.56	0.41
1:D:617:ASP:OD1	1:D:618:ILE:N	2.54	0.41
1:E:296:TRP:O	1:E:300:ILE:HG12	2.21	0.41
1:E:309:LYS:HA	1:E:309:LYS:HD2	1.90	0.41
1:E:740:HIS:HD2	1:Q:630:HIS:HD2	1.69	0.41
1:F:232[A]:HIS:HD2	1:F:245:THR:HB	1.86	0.41
1:F:341:GLN:HG2	1:F:404:MET:HG2	2.02	0.41
1:F:436:MET:SD	1:F:473:PHE:CD1	3.14	0.41
1:F:630:HIS:HD2	1:Q:740:HIS:HD2	1.69	0.41
1:F:634[B]:HIS:HD2	1:Q:612:VAL:CG1	2.34	0.41
1:G:424:SER:HB2	1:G:426:TYR:CE2	2.56	0.41
1:G:479:ASN:HD21	1:I:641:MET:HB2	1.85	0.41
1:H:296:TRP:O	1:H:300:ILE:HG12	2.21	0.41
1:H:634[B]:HIS:HD2	1:Y:612:VAL:CG1	2.34	0.41
1:I:243:THR:HG21	1:I:688:GLN:HE21	1.85	0.41
1:I:269:SER:HA	1:I:521:ARG:HG2	2.02	0.41
1:I:279:TRP:CE2	1:I:656:LYS:HD2	2.56	0.41
1:I:473:PHE:HA	1:I:476:TYR:CD2	2.56	0.41
1:J:627:LYS:HB2	1:J:649:PRO:HG3	2.01	0.41
1:K:740:HIS:HD2	1:a:630:HIS:HD2	1.69	0.41
1:L:232[A]:HIS:HD2	1:L:245:THR:HB	1.86	0.41
1:L:296:TRP:O	1:L:300:ILE:HG12	2.21	0.41
1:L:473:PHE:HA	1:L:476:TYR:CD2	2.56	0.41
1:M:279:TRP:CE2	1:M:656:LYS:HD2	2.55	0.41
1:M:296:TRP:O	1:M:300:ILE:HG12	2.21	0.41
1:M:436:MET:SD	1:M:473:PHE:CD1	3.14	0.41
1:M:634[B]:HIS:HD2	1:b:612:VAL:CG1	2.34	0.41
1:O:354:MET:HB2	1:O:652:GLN:HE21	1.85	0.41
1:O:359:GLU:OE2	1:n:467:LYS:NZ	2.41	0.41
1:O:634[B]:HIS:HD2	1:n:612:VAL:CG1	2.34	0.41
1:P:436:MET:SD	1:P:473:PHE:CD1	3.14	0.41
1:P:473:PHE:HA	1:P:476:TYR:CD2	2.56	0.41
1:Q:350:LEU:CD1	1:Q:397:LEU:HD22	2.51	0.41
1:Q:354:MET:HB2	1:Q:652:GLN:HE21	1.85	0.41
1:Q:424:SER:HB2	1:Q:426:TYR:CE2	2.56	0.41
1:Q:627:LYS:HB2	1:Q:649:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:636:HIS:O	1:Q:638:SER:N	2.47	0.41
1:R:354:MET:HB2	1:R:652:GLN:HE21	1.85	0.41
1:R:389:THR:H	1:R:392:ASN:HD22	1.69	0.41
1:R:434:ARG:HD3	1:R:434:ARG:HA	1.49	0.41
1:S:436:MET:SD	1:S:473:PHE:CD1	3.14	0.41
1:S:479:ASN:HD21	1:U:641:MET:HB2	1.85	0.41
1:S:576:ASN:HD21	1:S:613:TRP:CB	2.33	0.41
1:S:612:VAL:CG1	1:U:634[B]:HIS:HD2	2.34	0.41
1:S:617:ASP:OD1	1:S:618:ILE:N	2.54	0.41
1:S:699:LYS:HG3	1:U:400:PHE:CE2	2.56	0.41
1:S:699:LYS:HD2	1:S:699:LYS:HA	1.85	0.41
1:T:354:MET:HB2	1:T:652:GLN:HE21	1.85	0.41
1:T:634[B]:HIS:HD2	1:l:612:VAL:CG1	2.34	0.41
1:T:636:HIS:O	1:T:638:SER:N	2.47	0.41
1:V:296:TRP:O	1:V:300:ILE:HG12	2.21	0.41
1:V:473:PHE:HA	1:V:476:TYR:CD2	2.56	0.41
1:V:634[B]:HIS:HD2	1:X:612:VAL:CG1	2.34	0.41
1:V:641:MET:HB2	1:X:479:ASN:HD21	1.86	0.41
1:W:397:LEU:C	1:W:399:TYR:H	2.29	0.41
1:W:617:ASP:OD1	1:W:618:ILE:N	2.54	0.41
1:X:296:TRP:O	1:X:300:ILE:HG12	2.21	0.41
1:X:341:GLN:HG2	1:X:404:MET:HG2	2.02	0.41
1:X:397:LEU:C	1:X:399:TYR:H	2.29	0.41
1:X:424:SER:HB2	1:X:426:TYR:CE2	2.56	0.41
1:X:436:MET:SD	1:X:473:PHE:CD1	3.14	0.41
1:Y:232[A]:HIS:HD2	1:Y:245:THR:HB	1.86	0.41
1:Y:269:SER:HA	1:Y:521:ARG:HG2	2.02	0.41
1:Y:365:PHE:HA	1:Y:366:PRO:HD3	1.94	0.41
1:Z:296:TRP:O	1:Z:300:ILE:HG12	2.21	0.41
1:Z:473:PHE:HA	1:Z:476:TYR:CD2	2.56	0.41
1:Z:634[B]:HIS:HD2	1:3:612:VAL:CG1	2.34	0.41
1:a:341:GLN:O	1:a:655:ILE:HA	2.20	0.41
1:a:397:LEU:C	1:a:399:TYR:H	2.29	0.41
1:a:612:VAL:CG1	1:8:634[B]:HIS:HD2	2.34	0.41
1:a:740:HIS:HD2	1:8:630:HIS:HD2	1.69	0.41
1:d:350:LEU:CD1	1:d:397:LEU:HD22	2.51	0.41
1:d:389:THR:H	1:d:392:ASN:HD22	1.69	0.41
1:d:473:PHE:HA	1:d:476:TYR:CD2	2.56	0.41
1:d:612:VAL:CG1	1:l:634[B]:HIS:HD2	2.34	0.41
1:e:434:ARG:HD3	1:e:434:ARG:HA	1.49	0.41
1:e:576:ASN:HD21	1:e:613:TRP:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:397:LEU:C	1:f:399:TYR:H	2.29	0.41
1:f:473:PHE:HA	1:f:476:TYR:CD2	2.56	0.41
1:f:612:VAL:CG1	1:h:634[B]:HIS:HD2	2.34	0.41
1:g:389:THR:H	1:g:392:ASN:HD22	1.69	0.41
1:g:634[B]:HIS:HD2	1:h:612:VAL:CG1	2.34	0.41
1:h:296:TRP:O	1:h:300:ILE:HG12	2.21	0.41
1:h:436:MET:SD	1:h:473:PHE:CD1	3.14	0.41
1:i:341:GLN:HG2	1:i:404:MET:HG2	2.02	0.41
1:i:612:VAL:CG1	1:j:634[B]:HIS:HD2	2.34	0.41
1:i:617:ASP:OD1	1:i:618:ILE:N	2.54	0.41
1:j:341:GLN:O	1:j:655:ILE:HA	2.20	0.41
1:k:243:THR:HG21	1:k:688:GLN:HE21	1.85	0.41
1:k:424:SER:HB2	1:k:426:TYR:CE2	2.56	0.41
1:k:617:ASP:OD1	1:k:618:ILE:N	2.54	0.41
1:l:350:LEU:CD1	1:l:397:LEU:HD22	2.51	0.41
1:m:434:ARG:HA	1:m:434:ARG:HD3	1.49	0.41
1:m:636:HIS:O	1:m:638:SER:N	2.47	0.41
1:n:350:LEU:CD1	1:n:397:LEU:HD22	2.51	0.41
1:o:296:TRP:O	1:o:300:ILE:HG12	2.21	0.41
1:o:341:GLN:HG2	1:o:404:MET:HG2	2.02	0.41
1:o:397:LEU:C	1:o:399:TYR:H	2.29	0.41
1:o:424:SER:HB2	1:o:426:TYR:CE2	2.56	0.41
1:o:612:VAL:CG1	1:p:634[B]:HIS:HD2	2.34	0.41
1:p:296:TRP:O	1:p:300:ILE:HG12	2.21	0.41
1:p:341:GLN:HG2	1:p:404:MET:HG2	2.02	0.41
1:q:350:LEU:CD1	1:q:397:LEU:HD22	2.51	0.41
1:q:354:MET:HB2	1:q:652:GLN:HE21	1.85	0.41
1:q:389:THR:H	1:q:392:ASN:HD22	1.69	0.41
1:q:630:HIS:HD2	1:s:740:HIS:HD2	1.69	0.41
1:q:740:HIS:HD2	1:r:630:HIS:HD2	1.69	0.41
1:r:350:LEU:CD1	1:r:397:LEU:HD22	2.51	0.41
1:r:436:MET:SD	1:r:473:PHE:CD1	3.14	0.41
1:r:576:ASN:HD21	1:r:613:TRP:CB	2.33	0.41
1:s:441:ASP:OD1	1:s:470:THR:N	2.43	0.41
1:t:424:SER:HB2	1:t:426:TYR:CE2	2.56	0.41
1:t:479:ASN:HD21	1:u:641:MET:HB2	1.85	0.41
1:t:585:GLN:HB2	1:u:515:HIS:NE2	2.34	0.41
1:u:341:GLN:HG2	1:u:404:MET:HG2	2.02	0.41
1:u:473:PHE:HA	1:u:476:TYR:CD2	2.56	0.41
1:v:232[A]:HIS:HD2	1:v:245:THR:HB	1.85	0.41
1:v:397:LEU:C	1:v:399:TYR:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:473:PHE:HA	1:v:476:TYR:CD2	2.56	0.41
1:w:296:TRP:O	1:w:300:ILE:HG12	2.21	0.41
1:w:309:LYS:HA	1:w:309:LYS:HD2	1.90	0.41
1:w:740:HIS:HD2	1:x:630:HIS:HD2	1.69	0.41
1:x:350:LEU:CD1	1:x:397:LEU:HD22	2.51	0.41
1:x:424:SER:HB2	1:x:426:TYR:CE2	2.56	0.41
1:x:612:VAL:CG1	1:y:634[B]:HIS:HD2	2.34	0.41
1:x:740:HIS:HD2	1:y:630:HIS:HD2	1.69	0.41
1:y:232[A]:HIS:HD2	1:y:245:THR:HB	1.85	0.41
1:y:243:THR:HG21	1:y:688:GLN:HE21	1.85	0.41
1:y:436:MET:SD	1:y:473:PHE:CD1	3.14	0.41
1:z:296:TRP:O	1:z:300:ILE:HG12	2.21	0.41
1:z:473:PHE:HA	1:z:476:TYR:CD2	2.56	0.41
1:1:279:TRP:CE2	1:1:656:LYS:HD2	2.55	0.41
1:1:365:PHE:HA	1:1:366:PRO:HD3	1.94	0.41
1:1:436:MET:SD	1:1:473:PHE:CD1	3.14	0.41
1:2:397:LEU:C	1:2:399:TYR:H	2.29	0.41
1:2:424:SER:HB2	1:2:426:TYR:CE2	2.56	0.41
1:2:441:ASP:OD1	1:2:470:THR:N	2.43	0.41
1:3:397:LEU:C	1:3:399:TYR:H	2.29	0.41
1:3:424:SER:HB2	1:3:426:TYR:CE2	2.56	0.41
1:3:630:HIS:HD2	1:4:740:HIS:HD2	1.69	0.41
1:3:636:HIS:O	1:3:638:SER:N	2.47	0.41
1:5:296:TRP:O	1:5:300:ILE:HG12	2.21	0.41
1:5:479:ASN:HD21	1:6:641:MET:HB2	1.86	0.41
1:5:634[B]:HIS:HD2	1:7:612:VAL:CG1	2.34	0.41
1:5:641:MET:HB2	1:7:479:ASN:HD21	1.86	0.41
1:6:279:TRP:CE2	1:6:656:LYS:HD2	2.55	0.41
1:6:389:THR:H	1:6:392:ASN:HD22	1.69	0.41
1:6:397:LEU:C	1:6:399:TYR:H	2.29	0.41
1:6:436:MET:SD	1:6:473:PHE:CD1	3.14	0.41
1:7:269:SER:HA	1:7:521:ARG:HG2	2.02	0.41
1:8:350:LEU:CD1	1:8:397:LEU:HD22	2.51	0.41
1:8:473:PHE:HA	1:8:476:TYR:CD2	2.56	0.41
1:A:473:PHE:HA	1:A:476:TYR:CD2	2.56	0.41
1:B:424:SER:HB2	1:B:426:TYR:CE2	2.56	0.41
1:B:617:ASP:OD1	1:B:618:ILE:N	2.54	0.41
1:B:630:HIS:HD2	1:L:740:HIS:HD2	1.69	0.41
1:C:473:PHE:HA	1:C:476:TYR:CD2	2.56	0.41
1:C:634[B]:HIS:HD2	1:M:612:VAL:CG1	2.34	0.41
1:D:243:THR:HG21	1:D:688:GLN:HE21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:266:THR:HG23	1:E:384:LYS:O	2.21	0.41
1:F:242:VAL:HG13	1:F:691:TRP:HB2	2.03	0.41
1:F:243:THR:HG21	1:F:688:GLN:HE21	1.85	0.41
1:H:479:ASN:HD21	1:W:641:MET:HB2	1.86	0.41
1:H:630:HIS:HD2	1:Y:740:HIS:HD2	1.69	0.41
1:H:641:MET:HB2	1:Y:479:ASN:HD21	1.86	0.41
1:I:341:GLN:HG2	1:I:404:MET:HG2	2.02	0.41
1:J:397:LEU:C	1:J:399:TYR:H	2.29	0.41
1:K:232[A]:HIS:HD2	1:K:245:THR:HB	1.86	0.41
1:L:389:THR:H	1:L:392:ASN:HD22	1.69	0.41
1:M:473:PHE:HA	1:M:476:TYR:CD2	2.56	0.41
1:N:296:TRP:O	1:N:300:ILE:HG12	2.21	0.41
1:N:612:VAL:CG1	1:P:634[B]:HIS:HD2	2.34	0.41
1:O:341:GLN:O	1:O:655:ILE:HA	2.20	0.41
1:O:350:LEU:CD1	1:O:397:LEU:HD22	2.51	0.41
1:O:473:PHE:HA	1:O:476:TYR:CD2	2.56	0.41
1:P:296:TRP:O	1:P:300:ILE:HG12	2.21	0.41
1:P:341:GLN:O	1:P:655:ILE:HA	2.20	0.41
1:R:243:THR:HG21	1:R:688:GLN:HE21	1.85	0.41
1:R:350:LEU:CD1	1:R:397:LEU:HD22	2.51	0.41
1:R:424:SER:HB2	1:R:426:TYR:CE2	2.56	0.41
1:S:350:LEU:CD1	1:S:397:LEU:HD22	2.51	0.41
1:U:242:VAL:HG13	1:U:691:TRP:HB2	2.03	0.41
1:V:266:THR:HG23	1:V:384:LYS:O	2.21	0.41
1:W:242:VAL:HG13	1:W:691:TRP:HB2	2.03	0.41
1:W:436:MET:SD	1:W:473:PHE:CD1	3.14	0.41
1:Y:341:GLN:HG2	1:Y:404:MET:HG2	2.02	0.41
1:Z:350:LEU:CD1	1:Z:397:LEU:HD22	2.51	0.41
1:a:296:TRP:O	1:a:300:ILE:HG12	2.21	0.41
1:a:424:SER:HB2	1:a:426:TYR:CE2	2.56	0.41
1:b:266:THR:HG23	1:b:384:LYS:O	2.21	0.41
1:c:424:SER:HB2	1:c:426:TYR:CE2	2.56	0.41
1:c:479:ASN:HD21	1:o:641:MET:HB2	1.86	0.41
1:c:576:ASN:HD21	1:c:613:TRP:CB	2.33	0.41
1:d:288:HIS:ND1	1:d:364:PRO:HB3	2.36	0.41
1:j:296:TRP:O	1:j:300:ILE:HG12	2.21	0.41
1:j:424:SER:HB2	1:j:426:TYR:CE2	2.56	0.41
1:j:617:ASP:OD1	1:j:618:ILE:N	2.54	0.41
1:l:354:MET:HB2	1:l:652:GLN:HE21	1.85	0.41
1:m:354:MET:HB2	1:m:652:GLN:HE21	1.85	0.41
1:m:740:HIS:HD2	1:n:630:HIS:HD2	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:389:THR:H	1:n:392:ASN:HD22	1.69	0.41
1:o:436:MET:SD	1:o:473:PHE:CD1	3.14	0.41
1:o:636:HIS:O	1:o:638:SER:N	2.47	0.41
1:p:266:THR:HG23	1:p:384:LYS:O	2.21	0.41
1:p:473:PHE:HA	1:p:476:TYR:CD2	2.56	0.41
1:p:617:ASP:OD1	1:p:618:ILE:N	2.54	0.41
1:q:243:THR:HG21	1:q:688:GLN:HE21	1.85	0.41
1:q:424:SER:HB2	1:q:426:TYR:CE2	2.56	0.41
1:r:266:THR:HG23	1:r:384:LYS:O	2.21	0.41
1:r:617:ASP:OD1	1:r:618:ILE:N	2.54	0.41
1:s:242:VAL:HG13	1:s:691:TRP:HB2	2.03	0.41
1:t:634[B]:HIS:HD2	1:v:612:VAL:CG1	2.34	0.41
1:u:243:THR:HG21	1:u:688:GLN:HE21	1.85	0.41
1:v:242:VAL:HG13	1:v:691:TRP:HB2	2.03	0.41
1:w:266:THR:HG23	1:w:384:LYS:O	2.21	0.41
1:w:397:LEU:C	1:w:399:TYR:H	2.29	0.41
1:x:354:MET:HB2	1:x:652:GLN:HE21	1.85	0.41
1:x:627:LYS:HB2	1:x:649:PRO:HG3	2.01	0.41
1:x:636:HIS:O	1:x:638:SER:N	2.47	0.41
1:y:242:VAL:HG13	1:y:691:TRP:HB2	2.03	0.41
1:y:288:HIS:HD2	1:y:621:GLN:HA	1.83	0.41
1:z:389:THR:H	1:z:392:ASN:HD22	1.69	0.41
1:z:424:SER:HB2	1:z:426:TYR:CE2	2.56	0.41
1:z:434:ARG:HA	1:z:434:ARG:HD3	1.49	0.41
1:z:636:HIS:O	1:z:638:SER:N	2.47	0.41
1:1:424:SER:HB2	1:1:426:TYR:CE2	2.56	0.41
1:1:617:ASP:OD1	1:1:618:ILE:N	2.54	0.41
1:3:296:TRP:O	1:3:300:ILE:HG12	2.21	0.41
1:4:232[A]:HIS:HD2	1:4:245:THR:HB	1.86	0.41
1:4:269:SER:HA	1:4:521:ARG:HG2	2.02	0.41
1:4:636:HIS:O	1:4:638:SER:N	2.47	0.41
1:5:279:TRP:CE2	1:5:656:LYS:HD2	2.55	0.41
1:5:389:THR:H	1:5:392:ASN:HD22	1.69	0.41
1:6:242:VAL:HG13	1:6:691:TRP:HB2	2.03	0.41
1:6:617:ASP:OD1	1:6:618:ILE:N	2.54	0.41
1:8:279:TRP:CE2	1:8:656:LYS:HD2	2.55	0.41
1:8:296:TRP:O	1:8:300:ILE:HG12	2.21	0.41
1:8:436:MET:SD	1:8:473:PHE:CD1	3.14	0.41
1:A:242:VAL:HG13	1:A:691:TRP:HB2	2.03	0.40
1:A:296:TRP:O	1:A:300:ILE:HG12	2.21	0.40
1:C:641:MET:HB2	1:M:479:ASN:HD21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:350:LEU:CD1	1:D:397:LEU:HD22	2.51	0.40
1:E:232[A]:HIS:HD2	1:E:245:THR:HB	1.86	0.40
1:G:444:LEU:HD23	1:G:444:LEU:HA	1.90	0.40
1:H:279:TRP:CE2	1:H:656:LYS:HD2	2.55	0.40
1:H:341:GLN:HG2	1:H:404:MET:HG2	2.02	0.40
1:H:350:LEU:CD1	1:H:397:LEU:HD22	2.51	0.40
1:H:353:VAL:H	1:H:652:GLN:NE2	2.16	0.40
1:H:389:THR:H	1:H:392:ASN:HD22	1.69	0.40
1:I:266:THR:HG23	1:I:384:LYS:O	2.21	0.40
1:J:296:TRP:O	1:J:300:ILE:HG12	2.21	0.40
1:K:269:SER:HA	1:K:521:ARG:HG2	2.02	0.40
1:L:266:THR:HG23	1:L:384:LYS:O	2.21	0.40
1:L:424:SER:HB2	1:L:426:TYR:CE2	2.56	0.40
1:L:436:MET:SD	1:L:473:PHE:CD1	3.14	0.40
1:N:232[A]:HIS:HD2	1:N:245:THR:HB	1.86	0.40
1:N:424:SER:HB2	1:N:426:TYR:CE2	2.56	0.40
1:P:424:SER:HB2	1:P:426:TYR:CE2	2.56	0.40
1:P:617:ASP:OD1	1:P:618:ILE:N	2.54	0.40
1:R:296:TRP:O	1:R:300:ILE:HG12	2.21	0.40
1:S:266:THR:HG23	1:S:384:LYS:O	2.21	0.40
1:T:296:TRP:O	1:T:300:ILE:HG12	2.21	0.40
1:T:341:GLN:HG2	1:T:404:MET:HG2	2.02	0.40
1:T:700:ARG:NH1	1:T:739:THR:OG1	2.53	0.40
1:U:232[A]:HIS:HD2	1:U:245:THR:HB	1.86	0.40
1:U:279:TRP:CE2	1:U:656:LYS:HD2	2.56	0.40
1:V:617:ASP:OD1	1:V:618:ILE:N	2.54	0.40
1:W:266:THR:HG23	1:W:384:LYS:O	2.21	0.40
1:Z:266:THR:HG23	1:Z:384:LYS:O	2.21	0.40
1:Z:279:TRP:CE2	1:Z:656:LYS:HD2	2.55	0.40
1:Z:436:MET:SD	1:Z:473:PHE:CD1	3.14	0.40
1:Z:641:MET:HB2	1:3:479:ASN:HD21	1.86	0.40
1:c:350:LEU:CD1	1:c:397:LEU:HD22	2.51	0.40
1:d:266:THR:HG23	1:d:384:LYS:O	2.21	0.40
1:d:617:ASP:OD1	1:d:618:ILE:N	2.54	0.40
1:d:740:HIS:HD2	1:l:630:HIS:HD2	1.69	0.40
1:e:424:SER:HB2	1:e:426:TYR:CE2	2.56	0.40
1:f:266:THR:HG23	1:f:384:LYS:O	2.21	0.40
1:g:296:TRP:O	1:g:300:ILE:HG12	2.21	0.40
1:g:473:PHE:HA	1:g:476:TYR:CD2	2.56	0.40
1:g:617:ASP:OD1	1:g:618:ILE:N	2.54	0.40
1:h:473:PHE:HA	1:h:476:TYR:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:296:TRP:O	1:i:300:ILE:HG12	2.21	0.40
1:i:424:SER:HB2	1:i:426:TYR:CE2	2.56	0.40
1:k:350:LEU:CD1	1:k:397:LEU:HD22	2.51	0.40
1:l:341:GLN:O	1:l:655:ILE:HA	2.20	0.40
1:l:389:THR:H	1:l:392:ASN:HD22	1.69	0.40
1:m:296:TRP:O	1:m:300:ILE:HG12	2.21	0.40
1:n:434:ARG:HA	1:n:434:ARG:HD3	1.49	0.40
1:q:634[B]:HIS:HD2	1:s:612:VAL:CG1	2.34	0.40
1:r:479:ASN:HD21	1:s:641:MET:HB2	1.86	0.40
1:s:279:TRP:CE2	1:s:656:LYS:HD2	2.56	0.40
1:s:617:ASP:OD1	1:s:618:ILE:N	2.54	0.40
1:t:630:HIS:HD2	1:v:740:HIS:HD2	1.69	0.40
1:u:266:THR:HG23	1:u:384:LYS:O	2.21	0.40
1:u:269:SER:HA	1:u:521:ARG:HG2	2.02	0.40
1:w:436:MET:SD	1:w:473:PHE:CD1	3.14	0.40
1:y:341:GLN:HG2	1:y:404:MET:HG2	2.02	0.40
1:z:266:THR:HG23	1:z:384:LYS:O	2.21	0.40
1:z:275:PHE:HE2	1:4:717:MET:HE3	1.81	0.40
1:3:350:LEU:CD1	1:3:397:LEU:HD22	2.51	0.40
1:4:350:LEU:CD1	1:4:397:LEU:HD22	2.51	0.40
1:5:232[A]:HIS:HD2	1:5:245:THR:HB	1.85	0.40
1:5:350:LEU:CD1	1:5:397:LEU:HD22	2.51	0.40
1:5:630:HIS:HD2	1:7:740:HIS:HD2	1.69	0.40
1:6:266:THR:HG23	1:6:384:LYS:O	2.21	0.40
1:6:444:LEU:HD23	1:6:444:LEU:HA	1.90	0.40
1:6:740:HIS:HD2	1:7:630:HIS:HD2	1.69	0.40
1:7:424:SER:HB2	1:7:426:TYR:CE2	2.56	0.40
1:8:266:THR:HG23	1:8:384:LYS:O	2.21	0.40
1:A:279:TRP:CE2	1:A:656:LYS:HD2	2.55	0.40
1:A:436:MET:SD	1:A:473:PHE:CD1	3.14	0.40
1:A:740:HIS:HD2	1:G:630:HIS:HD2	1.69	0.40
1:B:634[B]:HIS:HD2	1:L:612:VAL:CG1	2.34	0.40
1:C:296:TRP:O	1:C:300:ILE:HG12	2.21	0.40
1:C:424:SER:HB2	1:C:426:TYR:CE2	2.56	0.40
1:C:617:ASP:OD1	1:C:618:ILE:N	2.54	0.40
1:D:397:LEU:C	1:D:399:TYR:H	2.29	0.40
1:E:288:HIS:ND1	1:E:364:PRO:HB3	2.36	0.40
1:E:436:MET:SD	1:E:473:PHE:CD1	3.14	0.40
1:F:288:HIS:HD2	1:F:621:GLN:HA	1.83	0.40
1:F:424:SER:HB2	1:F:426:TYR:CE2	2.56	0.40
1:G:296:TRP:O	1:G:300:ILE:HG12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:428:HIS:NE2	1:G:614:GLN:NE2	2.70	0.40
1:G:740:HIS:HD2	1:I:630:HIS:HD2	1.69	0.40
1:H:436:MET:SD	1:H:473:PHE:CD1	3.14	0.40
1:J:242:VAL:HG13	1:J:691:TRP:HB2	2.03	0.40
1:J:350:LEU:CD1	1:J:397:LEU:HD22	2.51	0.40
1:J:636:HIS:O	1:J:638:SER:N	2.47	0.40
1:K:350:LEU:CD1	1:K:397:LEU:HD22	2.51	0.40
1:M:365:PHE:HA	1:M:366:PRO:HD3	1.94	0.40
1:N:389:THR:H	1:N:392:ASN:HD22	1.69	0.40
1:O:288:HIS:ND1	1:O:364:PRO:HB3	2.36	0.40
1:O:389:THR:H	1:O:392:ASN:HD22	1.69	0.40
1:O:400:PHE:CE2	1:n:699:LYS:HG3	2.57	0.40
1:O:576:ASN:HD21	1:O:613:TRP:CB	2.33	0.40
1:O:630:HIS:HD2	1:n:740:HIS:HD2	1.69	0.40
1:P:232[A]:HIS:HD2	1:P:245:THR:HB	1.85	0.40
1:P:266:THR:HG23	1:P:384:LYS:O	2.21	0.40
1:P:389:THR:H	1:P:392:ASN:HD22	1.69	0.40
1:Q:279:TRP:CE2	1:Q:656:LYS:HD2	2.56	0.40
1:Q:428:HIS:NE2	1:Q:614:GLN:NE2	2.70	0.40
1:Q:617:ASP:OD1	1:Q:618:ILE:N	2.54	0.40
1:R:612:VAL:CG1	1:S:634[B]:HIS:HD2	2.34	0.40
1:R:630:HIS:HD2	1:U:740:HIS:HD2	1.69	0.40
1:T:424:SER:HB2	1:T:426:TYR:CE2	2.56	0.40
1:T:630:HIS:HD2	1:l:740:HIS:HD2	1.69	0.40
1:U:266:THR:HG23	1:U:384:LYS:O	2.21	0.40
1:U:428:HIS:NE2	1:U:614:GLN:NE2	2.70	0.40
1:W:428:HIS:NE2	1:W:614:GLN:NE2	2.70	0.40
1:W:636:HIS:O	1:W:638:SER:N	2.47	0.40
1:X:279:TRP:CE2	1:X:656:LYS:HD2	2.55	0.40
1:X:641:MET:HB2	1:e:479:ASN:HD21	1.86	0.40
1:Y:444:LEU:HD23	1:Y:444:LEU:HA	1.90	0.40
1:a:350:LEU:CD1	1:a:397:LEU:HD22	2.51	0.40
1:a:365:PHE:HA	1:a:366:PRO:HD3	1.94	0.40
1:b:296:TRP:O	1:b:300:ILE:HG12	2.21	0.40
1:c:242:VAL:HG13	1:c:691:TRP:HB2	2.03	0.40
1:c:266:THR:HG23	1:c:384:LYS:O	2.21	0.40
1:d:341:GLN:HG2	1:d:404:MET:HG2	2.02	0.40
1:d:699:LYS:HG3	1:l:400:PHE:CE2	2.57	0.40
1:e:242:VAL:HG13	1:e:691:TRP:HB2	2.03	0.40
1:e:266:THR:HG23	1:e:384:LYS:O	2.21	0.40
1:e:617:ASP:OD1	1:e:618:ILE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:296:TRP:O	1:f:300:ILE:HG12	2.21	0.40
1:g:641:MET:HB2	1:h:479:ASN:HD21	1.86	0.40
1:j:266:THR:HG23	1:j:384:LYS:O	2.21	0.40
1:j:740:HIS:HD2	1:k:630:HIS:HD2	1.69	0.40
1:k:296:TRP:O	1:k:300:ILE:HG12	2.21	0.40
1:k:397:LEU:C	1:k:399:TYR:H	2.29	0.40
1:k:473:PHE:HA	1:k:476:TYR:CD2	2.56	0.40
1:l:473:PHE:HA	1:l:476:TYR:CD2	2.56	0.40
1:m:341:GLN:HG2	1:m:404:MET:HG2	2.02	0.40
1:n:288:HIS:ND1	1:n:364:PRO:HB3	2.36	0.40
1:n:617:ASP:OD1	1:n:618:ILE:N	2.54	0.40
1:o:279:TRP:CE2	1:o:656:LYS:HD2	2.55	0.40
1:q:434:ARG:HA	1:q:434:ARG:HD3	1.49	0.40
1:q:612:VAL:CG1	1:r:634[B]:HIS:HD2	2.34	0.40
1:q:699:LYS:HG3	1:r:400:PHE:CE2	2.57	0.40
1:r:740:HIS:HD2	1:s:630:HIS:HD2	1.69	0.40
1:s:266:THR:HG23	1:s:384:LYS:O	2.21	0.40
1:t:296:TRP:O	1:t:300:ILE:HG12	2.21	0.40
1:t:428:HIS:NE2	1:t:614:GLN:NE2	2.70	0.40
1:t:740:HIS:HD2	1:u:630:HIS:HD2	1.69	0.40
1:u:288:HIS:ND1	1:u:364:PRO:HB3	2.36	0.40
1:v:296:TRP:O	1:v:300:ILE:HG12	2.21	0.40
1:v:436:MET:SD	1:v:473:PHE:CD1	3.14	0.40
1:w:232[A]:HIS:HD2	1:w:245:THR:HB	1.86	0.40
1:x:279:TRP:CE2	1:x:656:LYS:HD2	2.55	0.40
1:x:428:HIS:NE2	1:x:614:GLN:NE2	2.70	0.40
1:x:617:ASP:OD1	1:x:618:ILE:N	2.54	0.40
1:y:424:SER:HB2	1:y:426:TYR:CE2	2.56	0.40
1:z:255:TYR:OH	1:z:372:VAL:O	2.28	0.40
1:z:436:MET:SD	1:z:473:PHE:CD1	3.14	0.40
1:1:232[A]:HIS:HD2	1:1:245:THR:HB	1.86	0.40
1:1:341:GLN:O	1:1:655:ILE:HA	2.20	0.40
1:1:479:ASN:HD21	1:2:641:MET:HB2	1.86	0.40
1:5:341:GLN:HG2	1:5:404:MET:HG2	2.02	0.40
1:5:436:MET:SD	1:5:473:PHE:CD1	3.14	0.40
1:6:428:HIS:NE2	1:6:614:GLN:NE2	2.70	0.40
1:6:441:ASP:OD1	1:6:470:THR:N	2.43	0.40
1:7:341:GLN:HG2	1:7:404:MET:HG2	2.02	0.40
1:B:232[A]:HIS:HD2	1:B:245:THR:HB	1.86	0.40
1:C:242:VAL:HG13	1:C:691:TRP:HB2	2.03	0.40
1:C:467:LYS:NZ	1:b:359:GLU:OE2	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:699:LYS:HG3	1:b:400:PHE:CE2	2.57	0.40
1:D:296:TRP:O	1:D:300:ILE:HG12	2.21	0.40
1:D:473:PHE:HA	1:D:476:TYR:CD2	2.56	0.40
1:D:630:HIS:HD2	1:P:740:HIS:HD2	1.69	0.40
1:E:397:LEU:C	1:E:399:TYR:H	2.29	0.40
1:G:612:VAL:CG1	1:I:634[B]:HIS:HD2	2.34	0.40
1:H:232[A]:HIS:HD2	1:H:245:THR:HB	1.85	0.40
1:I:288:HIS:ND1	1:I:364:PRO:HB3	2.36	0.40
1:I:350:LEU:CD1	1:I:397:LEU:HD22	2.51	0.40
1:J:266:THR:HG23	1:J:384:LYS:O	2.21	0.40
1:J:617:ASP:OD1	1:J:618:ILE:N	2.54	0.40
1:K:296:TRP:O	1:K:300:ILE:HG12	2.21	0.40
1:K:636:HIS:O	1:K:638:SER:N	2.47	0.40
1:L:428:HIS:NE2	1:L:614:GLN:NE2	2.70	0.40
1:N:473:PHE:HA	1:N:476:TYR:CD2	2.56	0.40
1:S:341:GLN:HG2	1:S:404:MET:HG2	2.02	0.40
1:T:288:HIS:ND1	1:T:364:PRO:HB3	2.36	0.40
1:T:479:ASN:HD21	1:d:641:MET:HB2	1.86	0.40
1:T:740:HIS:HD2	1:d:630:HIS:HD2	1.69	0.40
1:U:288:HIS:ND1	1:U:364:PRO:HB3	2.36	0.40
1:U:617:ASP:OD1	1:U:618:ILE:N	2.54	0.40
1:V:397:LEU:C	1:V:399:TYR:H	2.29	0.40
1:W:341:GLN:HG2	1:W:404:MET:HG2	2.02	0.40
1:W:473:PHE:HA	1:W:476:TYR:CD2	2.56	0.40
1:W:740:HIS:HD2	1:Y:630:HIS:HD2	1.69	0.40
1:Y:424:SER:HB2	1:Y:426:TYR:CE2	2.56	0.40
1:a:479:ASN:HD21	1:8:641:MET:HB2	1.86	0.40
1:b:288:HIS:ND1	1:b:364:PRO:HB3	2.36	0.40
1:b:424:SER:HB2	1:b:426:TYR:CE2	2.56	0.40
1:c:389:THR:H	1:c:392:ASN:HD22	1.69	0.40
1:c:617:ASP:OD1	1:c:618:ILE:N	2.54	0.40
1:d:450:THR:HG1	1:l:501:ILE:H	1.65	0.40
1:d:467:LYS:NZ	1:l:359:GLU:OE2	2.41	0.40
1:e:389:THR:H	1:e:392:ASN:HD22	1.69	0.40
1:f:400:PHE:CE2	1:g:699:LYS:HG3	2.57	0.40
1:f:424:SER:HB2	1:f:426:TYR:CE2	2.56	0.40
1:g:242:VAL:HG13	1:g:691:TRP:HB2	2.03	0.40
1:g:424:SER:HB2	1:g:426:TYR:CE2	2.56	0.40
1:h:266:THR:HG23	1:h:384:LYS:O	2.21	0.40
1:h:365:PHE:HA	1:h:366:PRO:HD3	1.94	0.40
1:i:232[A]:HIS:HD2	1:i:245:THR:HB	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:242:VAL:HG13	1:i:691:TRP:HB2	2.03	0.40
1:i:389:THR:H	1:i:392:ASN:HD22	1.69	0.40
1:i:473:PHE:HA	1:i:476:TYR:CD2	2.56	0.40
1:j:389:THR:H	1:j:392:ASN:HD22	1.69	0.40
1:j:397:LEU:C	1:j:399:TYR:H	2.29	0.40
1:l:576:ASN:HD21	1:l:613:TRP:CB	2.33	0.40
1:m:266:THR:HG23	1:m:384:LYS:O	2.21	0.40
1:m:424:SER:HB2	1:m:426:TYR:CE2	2.56	0.40
1:m:576:ASN:HD21	1:m:613:TRP:CB	2.33	0.40
1:n:266:THR:HG23	1:n:384:LYS:O	2.21	0.40
1:n:341:GLN:HG2	1:n:404:MET:HG2	2.02	0.40
1:p:350:LEU:CD1	1:p:397:LEU:HD22	2.51	0.40
1:p:397:LEU:C	1:p:399:TYR:H	2.29	0.40
1:q:444:LEU:HD23	1:q:444:LEU:HA	1.90	0.40
1:r:699:LYS:HG3	1:s:400:PHE:CE2	2.57	0.40
1:r:699:LYS:HD2	1:r:699:LYS:HA	1.85	0.40
1:s:288:HIS:ND1	1:s:364:PRO:HB3	2.36	0.40
1:s:428:HIS:NE2	1:s:614:GLN:NE2	2.70	0.40
1:u:700:ARG:NH1	1:u:739:THR:OG1	2.53	0.40
1:w:288:HIS:ND1	1:w:364:PRO:HB3	2.36	0.40
1:y:288:HIS:ND1	1:y:364:PRO:HB3	2.36	0.40
1:y:296:TRP:O	1:y:300:ILE:HG12	2.21	0.40
1:z:428:HIS:NE2	1:z:614:GLN:NE2	2.70	0.40
1:2:242:VAL:HG13	1:2:691:TRP:HB2	2.03	0.40
1:2:279:TRP:CE2	1:2:656:LYS:HD2	2.55	0.40
1:2:296:TRP:O	1:2:300:ILE:HG12	2.21	0.40
1:2:350:LEU:CD1	1:2:397:LEU:HD22	2.51	0.40
1:7:444:LEU:HD23	1:7:444:LEU:HA	1.90	0.40
1:D:517:THR:HA	1:D:521:ARG:O	2.22	0.40
1:E:634[B]:HIS:HD2	1:F:612:VAL:CG1	2.34	0.40
1:F:266:THR:HG23	1:F:384:LYS:O	2.21	0.40
1:F:288:HIS:ND1	1:F:364:PRO:HB3	2.36	0.40
1:F:296:TRP:O	1:F:300:ILE:HG12	2.21	0.40
1:F:389:THR:H	1:F:392:ASN:HD22	1.69	0.40
1:G:473:PHE:HA	1:G:476:TYR:CD2	2.56	0.40
1:G:617:ASP:OD1	1:G:618:ILE:N	2.54	0.40
1:H:242:VAL:HG13	1:H:691:TRP:HB2	2.03	0.40
1:H:400:PHE:CE2	1:Y:699:LYS:HG3	2.57	0.40
1:I:436:MET:SD	1:I:473:PHE:CD1	3.14	0.40
1:I:617:ASP:OD1	1:I:618:ILE:N	2.54	0.40
1:J:279:TRP:CE2	1:J:656:LYS:HD2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:428:HIS:NE2	1:K:614:GLN:NE2	2.70	0.40
1:L:341:GLN:HG2	1:L:404:MET:HG2	2.02	0.40
1:L:636:HIS:O	1:L:638:SER:N	2.47	0.40
1:M:266:THR:HG23	1:M:384:LYS:O	2.21	0.40
1:M:400:PHE:CE2	1:b:699:LYS:HG3	2.57	0.40
1:N:517:THR:HA	1:N:521:ARG:O	2.22	0.40
1:O:397:LEU:C	1:O:399:TYR:H	2.29	0.40
1:O:436:MET:SD	1:O:473:PHE:CD1	3.14	0.40
1:O:740:HIS:HD2	1:m:630:HIS:HD2	1.69	0.40
1:P:397:LEU:C	1:P:399:TYR:H	2.29	0.40
1:R:242:VAL:HG13	1:R:691:TRP:HB2	2.03	0.40
1:R:699:LYS:HG3	1:S:400:PHE:CE2	2.57	0.40
1:S:288:HIS:ND1	1:S:364:PRO:HB3	2.36	0.40
1:T:266:THR:HG23	1:T:384:LYS:O	2.21	0.40
1:T:576:ASN:HD21	1:T:613:TRP:CB	2.33	0.40
1:V:242:VAL:HG13	1:V:691:TRP:HB2	2.03	0.40
1:W:517:THR:HA	1:W:521:ARG:O	2.22	0.40
1:X:400:PHE:CE2	1:e:699:LYS:HG3	2.57	0.40
1:X:428:HIS:NE2	1:X:614:GLN:NE2	2.70	0.40
1:X:444:LEU:HD23	1:X:444:LEU:HA	1.90	0.40
1:X:636:HIS:O	1:X:638:SER:N	2.47	0.40
1:Y:617:ASP:OD1	1:Y:618:ILE:N	2.54	0.40
1:Z:242:VAL:HG13	1:Z:691:TRP:HB2	2.03	0.40
1:c:436:MET:SD	1:c:473:PHE:CD1	3.14	0.40
1:c:699:LYS:HG3	1:o:400:PHE:CE2	2.57	0.40
1:f:288:HIS:ND1	1:f:364:PRO:HB3	2.36	0.40
1:f:634[B]:HIS:HD2	1:g:612:VAL:CG1	2.34	0.40
1:f:699:LYS:HG3	1:h:400:PHE:CE2	2.57	0.40
1:i:517:THR:HA	1:i:521:ARG:O	2.22	0.40
1:i:699:LYS:HG3	1:j:400:PHE:CE2	2.57	0.40
1:j:232[A]:HIS:HD2	1:j:245:THR:HB	1.85	0.40
1:j:350:LEU:CD1	1:j:397:LEU:HD22	2.51	0.40
1:k:517:THR:HA	1:k:521:ARG:O	2.22	0.40
1:l:288:HIS:ND1	1:l:364:PRO:HB3	2.36	0.40
1:l:397:LEU:C	1:l:399:TYR:H	2.29	0.40
1:l:436:MET:SD	1:l:473:PHE:CD1	3.14	0.40
1:m:288:HIS:ND1	1:m:364:PRO:HB3	2.36	0.40
1:m:479:ASN:HD21	1:n:641:MET:HB2	1.85	0.40
1:m:700:ARG:NH1	1:m:739:THR:OG1	2.53	0.40
1:p:232[A]:HIS:HD2	1:p:245:THR:HB	1.86	0.40
1:p:242:VAL:HG13	1:p:691:TRP:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:242:VAL:HG13	1:q:691:TRP:HB2	2.03	0.40
1:q:296:TRP:O	1:q:300:ILE:HG12	2.21	0.40
1:q:479:ASN:HD21	1:r:641:MET:HB2	1.86	0.40
1:r:341:GLN:HG2	1:r:404:MET:HG2	2.02	0.40
1:s:232[A]:HIS:HD2	1:s:245:THR:HB	1.86	0.40
1:t:612:VAL:CG1	1:u:634[B]:HIS:HD2	2.34	0.40
1:u:296:TRP:O	1:u:300:ILE:HG12	2.21	0.40
1:u:350:LEU:CD1	1:u:397:LEU:HD22	2.51	0.40
1:u:397:LEU:C	1:u:399:TYR:H	2.29	0.40
1:u:436:MET:SD	1:u:473:PHE:CD1	3.14	0.40
1:v:279:TRP:CE2	1:v:656:LYS:HD2	2.56	0.40
1:w:634[B]:HIS:HD2	1:y:612:VAL:CG1	2.34	0.40
1:y:279:TRP:CE2	1:y:656:LYS:HD2	2.55	0.40
1:y:389:THR:H	1:y:392:ASN:HD22	1.69	0.40
1:z:612:VAL:CG1	1:1:634[B]:HIS:HD2	2.34	0.40
1:z:740:HIS:HD2	1:1:630:HIS:HD2	1.69	0.40
1:2:266:THR:HG23	1:2:384:LYS:O	2.21	0.40
1:2:617:ASP:OD1	1:2:618:ILE:N	2.54	0.40
1:4:428:HIS:NE2	1:4:614:GLN:NE2	2.70	0.40
1:5:242:VAL:HG13	1:5:691:TRP:HB2	2.03	0.40
1:6:473:PHE:HA	1:6:476:TYR:CD2	2.56	0.40
1:6:517:THR:HA	1:6:521:ARG:O	2.22	0.40
1:C:428:HIS:NE2	1:C:614:GLN:NE2	2.70	0.40
1:C:612:VAL:CG1	1:b:634[B]:HIS:HD2	2.34	0.40
1:D:242:VAL:HG13	1:D:691:TRP:HB2	2.03	0.40
1:D:400:PHE:CE2	1:P:699:LYS:HG3	2.57	0.40
1:F:354:MET:HB2	1:F:652:GLN:HE21	1.85	0.40
1:G:266:THR:HG23	1:G:384:LYS:O	2.21	0.40
1:G:350:LEU:CD1	1:G:397:LEU:HD22	2.51	0.40
1:G:441:ASP:OD1	1:G:470:THR:N	2.43	0.40
1:I:397:LEU:C	1:I:399:TYR:H	2.29	0.40
1:K:699:LYS:HG3	1:a:400:PHE:CE2	2.57	0.40
1:M:397:LEU:C	1:M:399:TYR:H	2.29	0.40
1:M:424:SER:HB2	1:M:426:TYR:CE2	2.56	0.40
1:N:242:VAL:HG13	1:N:691:TRP:HB2	2.03	0.40
1:N:269:SER:HA	1:N:521:ARG:HG2	2.02	0.40
1:N:450:THR:HG1	1:P:501:ILE:H	1.64	0.40
1:N:699:LYS:HG3	1:P:400:PHE:CE2	2.57	0.40
1:P:350:LEU:CD1	1:P:397:LEU:HD22	2.51	0.40
1:Q:242:VAL:HG13	1:Q:691:TRP:HB2	2.03	0.40
1:R:397:LEU:C	1:R:399:TYR:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:479:ASN:HD21	1:S:641:MET:HB2	1.86	0.40
1:R:641:MET:HB2	1:U:479:ASN:HD21	1.87	0.40
1:T:400:PHE:CE2	1:l:699:LYS:HG3	2.57	0.40
1:V:350:LEU:CD1	1:V:397:LEU:HD22	2.51	0.40
1:W:341:GLN:O	1:W:655:ILE:HA	2.20	0.40
1:Z:424:SER:HB2	1:Z:426:TYR:CE2	2.56	0.40
1:a:255:TYR:OH	1:a:372:VAL:O	2.28	0.40
1:c:397:LEU:C	1:c:399:TYR:H	2.29	0.40
1:d:436:MET:SD	1:d:473:PHE:CD1	3.14	0.40
1:e:436:MET:SD	1:e:473:PHE:CD1	3.14	0.40
1:h:242:VAL:HG13	1:h:691:TRP:HB2	2.03	0.40
1:i:450:THR:HG1	1:j:501:ILE:H	1.65	0.40
1:k:242:VAL:HG13	1:k:691:TRP:HB2	2.03	0.40
1:k:266:THR:HG23	1:k:384:LYS:O	2.21	0.40
1:l:428:HIS:NE2	1:l:614:GLN:NE2	2.70	0.40
1:o:428:HIS:NE2	1:o:614:GLN:NE2	2.70	0.40
1:o:551:PRO:HB3	1:o:728:HIS:ND1	2.37	0.40
1:r:288:HIS:ND1	1:r:364:PRO:HB3	2.36	0.40
1:t:266:THR:HG23	1:t:384:LYS:O	2.21	0.40
1:t:350:LEU:CD1	1:t:397:LEU:HD22	2.51	0.40
1:t:473:PHE:HA	1:t:476:TYR:CD2	2.56	0.40
1:t:617:ASP:OD1	1:t:618:ILE:N	2.54	0.40
1:t:641:MET:HB2	1:v:479:ASN:HD21	1.86	0.40
1:u:479:ASN:HD21	1:v:641:MET:HB2	1.86	0.40
1:x:365:PHE:HA	1:x:366:PRO:HD3	1.94	0.40
1:x:544:SER:O	1:x:616:ARG:NH2	2.51	0.40
1:y:266:THR:HG23	1:y:384:LYS:O	2.21	0.40
1:y:354:MET:HB2	1:y:652:GLN:HE21	1.85	0.40
1:2:232[A]:HIS:HD2	1:2:245:THR:HB	1.86	0.40
1:2:636:HIS:O	1:2:638:SER:N	2.47	0.40
1:3:400:PHE:CE2	1:4:699:LYS:HG3	2.57	0.40
1:4:242:VAL:HG13	1:4:691:TRP:HB2	2.03	0.40
1:4:296:TRP:O	1:4:300:ILE:HG12	2.21	0.40
1:5:400:PHE:CE2	1:7:699:LYS:HG3	2.57	0.40
1:6:341:GLN:HG2	1:6:404:MET:HG2	2.02	0.40
1:7:617:ASP:OD1	1:7:618:ILE:N	2.54	0.40
1:8:242:VAL:HG13	1:8:691:TRP:HB2	2.03	0.40
1:8:389:THR:H	1:8:392:ASN:HD22	1.69	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	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	2	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	3	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	4	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	5	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	6	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	7	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	8	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	A	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	B	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	C	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	D	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	E	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	F	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	G	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	H	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	I	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	J	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	K	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	L	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	M	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	N	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	O	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	P	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	Q	521/521 (100%)	513 (98%)	8 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	S	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	T	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	U	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	V	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	W	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	X	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	Y	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	Z	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	a	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	b	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	c	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	d	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	e	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	f	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	g	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	h	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	i	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	j	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	k	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	l	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	m	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	n	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	o	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	p	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	q	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	r	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	s	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	t	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	u	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	v	521/521 (100%)	513 (98%)	8 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	x	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	y	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
1	z	521/521 (100%)	513 (98%)	8 (2%)	0	100	100
All	All	31260/31260 (100%)	30780 (98%)	480 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	2	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	3	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	4	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	5	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	6	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	7	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	8	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	A	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	B	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	C	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	D	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	E	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	F	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	G	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	H	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	I	451/449 (100%)	450 (100%)	1 (0%)	92	98

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	K	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	L	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	M	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	N	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	O	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	P	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	Q	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	R	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	S	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	T	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	U	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	V	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	W	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	X	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	Y	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	Z	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	a	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	b	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	c	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	d	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	e	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	f	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	g	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	h	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	i	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	j	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	k	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	l	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	m	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	n	451/449 (100%)	450 (100%)	1 (0%)	92	98

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	o	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	p	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	q	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	r	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	s	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	t	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	u	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	v	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	w	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	x	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	y	451/449 (100%)	450 (100%)	1 (0%)	92	98
1	z	451/449 (100%)	450 (100%)	1 (0%)	92	98
All	All	27060/26940 (100%)	27000 (100%)	60 (0%)	91	98

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

Mol	Chain	Res	Type
1	A	402	SER
1	B	402	SER
1	C	402	SER
1	D	402	SER
1	E	402	SER
1	F	402	SER
1	G	402	SER
1	H	402	SER
1	I	402	SER
1	J	402	SER
1	K	402	SER
1	L	402	SER
1	M	402	SER
1	N	402	SER
1	O	402	SER
1	P	402	SER
1	Q	402	SER
1	R	402	SER
1	S	402	SER
1	T	402	SER
1	U	402	SER

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Mol	Chain	Res	Type
1	V	402	SER
1	W	402	SER
1	X	402	SER
1	Y	402	SER
1	Z	402	SER
1	a	402	SER
1	b	402	SER
1	c	402	SER
1	d	402	SER
1	e	402	SER
1	f	402	SER
1	g	402	SER
1	h	402	SER
1	i	402	SER
1	j	402	SER
1	k	402	SER
1	l	402	SER
1	m	402	SER
1	n	402	SER
1	o	402	SER
1	p	402	SER
1	q	402	SER
1	r	402	SER
1	s	402	SER
1	t	402	SER
1	u	402	SER
1	v	402	SER
1	w	402	SER
1	x	402	SER
1	y	402	SER
1	z	402	SER
1	1	402	SER
1	2	402	SER
1	3	402	SER
1	4	402	SER
1	5	402	SER
1	6	402	SER
1	7	402	SER
1	8	402	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (836) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	367	ASN
1	A	374	GLN
1	A	387	ASN
1	A	392	ASN
1	A	430	GLN
1	A	454	ASN
1	A	479	ASN
1	A	489	GLN
1	A	614	GLN
1	A	630	HIS
1	A	636	HIS
1	A	652	GLN
1	A	679	GLN
1	A	688	GLN
1	A	740	HIS
1	B	303	ASN
1	B	367	ASN
1	B	387	ASN
1	B	392	ASN
1	B	430	GLN
1	B	479	ASN
1	B	489	GLN
1	B	614	GLN
1	B	630	HIS
1	B	636	HIS
1	B	652	GLN
1	B	679	GLN
1	B	688	GLN
1	B	740	HIS
1	C	303	ASN
1	C	341	GLN
1	C	367	ASN
1	C	387	ASN
1	C	392	ASN
1	C	430	GLN
1	C	479	ASN
1	C	489	GLN
1	C	614	GLN
1	C	630	HIS
1	C	636	HIS
1	C	652	GLN
1	C	679	GLN
1	C	688	GLN

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Mol	Chain	Res	Type
1	C	740	HIS
1	D	374	GLN
1	D	387	ASN
1	D	392	ASN
1	D	430	GLN
1	D	479	ASN
1	D	489	GLN
1	D	614	GLN
1	D	630	HIS
1	D	636	HIS
1	D	652	GLN
1	D	679	GLN
1	D	688	GLN
1	D	740	HIS
1	E	256	ASN
1	E	303	ASN
1	E	374	GLN
1	E	387	ASN
1	E	392	ASN
1	E	430	GLN
1	E	479	ASN
1	E	489	GLN
1	E	614	GLN
1	E	630	HIS
1	E	636	HIS
1	E	652	GLN
1	E	679	GLN
1	E	688	GLN
1	E	740	HIS
1	F	367	ASN
1	F	387	ASN
1	F	392	ASN
1	F	430	GLN
1	F	479	ASN
1	F	489	GLN
1	F	614	GLN
1	F	630	HIS
1	F	636	HIS
1	F	652	GLN
1	F	679	GLN
1	F	688	GLN
1	F	740	HIS

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Mol	Chain	Res	Type
1	G	303	ASN
1	G	367	ASN
1	G	387	ASN
1	G	392	ASN
1	G	430	GLN
1	G	479	ASN
1	G	489	GLN
1	G	614	GLN
1	G	630	HIS
1	G	636	HIS
1	G	652	GLN
1	G	679	GLN
1	G	688	GLN
1	G	740	HIS
1	H	256	ASN
1	H	374	GLN
1	H	387	ASN
1	H	392	ASN
1	H	430	GLN
1	H	479	ASN
1	H	489	GLN
1	H	614	GLN
1	H	630	HIS
1	H	636	HIS
1	H	652	GLN
1	H	679	GLN
1	H	688	GLN
1	H	740	HIS
1	I	374	GLN
1	I	387	ASN
1	I	392	ASN
1	I	430	GLN
1	I	479	ASN
1	I	489	GLN
1	I	630	HIS
1	I	636	HIS
1	I	652	GLN
1	I	679	GLN
1	I	688	GLN
1	I	740	HIS
1	J	303	ASN
1	J	367	ASN

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Mol	Chain	Res	Type
1	J	387	ASN
1	J	392	ASN
1	J	430	GLN
1	J	479	ASN
1	J	489	GLN
1	J	614	GLN
1	J	630	HIS
1	J	636	HIS
1	J	652	GLN
1	J	679	GLN
1	J	688	GLN
1	J	740	HIS
1	K	256	ASN
1	K	367	ASN
1	K	374	GLN
1	K	387	ASN
1	K	392	ASN
1	K	479	ASN
1	K	489	GLN
1	K	630	HIS
1	K	636	HIS
1	K	652	GLN
1	K	679	GLN
1	K	688	GLN
1	K	740	HIS
1	L	341	GLN
1	L	367	ASN
1	L	387	ASN
1	L	392	ASN
1	L	479	ASN
1	L	489	GLN
1	L	614	GLN
1	L	630	HIS
1	L	636	HIS
1	L	652	GLN
1	L	679	GLN
1	L	688	GLN
1	L	740	HIS
1	M	256	ASN
1	M	303	ASN
1	M	341	GLN
1	M	374	GLN

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Mol	Chain	Res	Type
1	M	387	ASN
1	M	392	ASN
1	M	430	GLN
1	M	479	ASN
1	M	489	GLN
1	M	614	GLN
1	M	630	HIS
1	M	636	HIS
1	M	652	GLN
1	M	679	GLN
1	M	688	GLN
1	M	740	HIS
1	N	341	GLN
1	N	367	ASN
1	N	387	ASN
1	N	392	ASN
1	N	430	GLN
1	N	479	ASN
1	N	489	GLN
1	N	614	GLN
1	N	630	HIS
1	N	636	HIS
1	N	652	GLN
1	N	679	GLN
1	N	688	GLN
1	N	740	HIS
1	O	341	GLN
1	O	367	ASN
1	O	387	ASN
1	O	392	ASN
1	O	430	GLN
1	O	479	ASN
1	O	489	GLN
1	O	614	GLN
1	O	630	HIS
1	O	636	HIS
1	O	652	GLN
1	O	679	GLN
1	O	688	GLN
1	O	740	HIS
1	P	303	ASN
1	P	367	ASN

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Mol	Chain	Res	Type
1	P	387	ASN
1	P	392	ASN
1	P	430	GLN
1	P	479	ASN
1	P	489	GLN
1	P	614	GLN
1	P	630	HIS
1	P	636	HIS
1	P	652	GLN
1	P	679	GLN
1	P	688	GLN
1	P	740	HIS
1	Q	367	ASN
1	Q	387	ASN
1	Q	392	ASN
1	Q	430	GLN
1	Q	479	ASN
1	Q	489	GLN
1	Q	630	HIS
1	Q	636	HIS
1	Q	652	GLN
1	Q	679	GLN
1	Q	688	GLN
1	Q	740	HIS
1	R	367	ASN
1	R	387	ASN
1	R	392	ASN
1	R	430	GLN
1	R	479	ASN
1	R	489	GLN
1	R	614	GLN
1	R	630	HIS
1	R	636	HIS
1	R	652	GLN
1	R	679	GLN
1	R	688	GLN
1	R	740	HIS
1	S	374	GLN
1	S	387	ASN
1	S	392	ASN
1	S	430	GLN
1	S	479	ASN

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Mol	Chain	Res	Type
1	S	489	GLN
1	S	614	GLN
1	S	630	HIS
1	S	636	HIS
1	S	652	GLN
1	S	679	GLN
1	S	688	GLN
1	S	740	HIS
1	T	341	GLN
1	T	367	ASN
1	T	387	ASN
1	T	392	ASN
1	T	430	GLN
1	T	479	ASN
1	T	489	GLN
1	T	630	HIS
1	T	636	HIS
1	T	652	GLN
1	T	679	GLN
1	T	688	GLN
1	T	740	HIS
1	U	367	ASN
1	U	387	ASN
1	U	392	ASN
1	U	430	GLN
1	U	479	ASN
1	U	489	GLN
1	U	614	GLN
1	U	630	HIS
1	U	636	HIS
1	U	652	GLN
1	U	679	GLN
1	U	688	GLN
1	U	740	HIS
1	V	303	ASN
1	V	341	GLN
1	V	367	ASN
1	V	387	ASN
1	V	392	ASN
1	V	430	GLN
1	V	479	ASN
1	V	489	GLN

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Mol	Chain	Res	Type
1	V	614	GLN
1	V	630	HIS
1	V	636	HIS
1	V	652	GLN
1	V	679	GLN
1	V	688	GLN
1	V	740	HIS
1	W	341	GLN
1	W	367	ASN
1	W	387	ASN
1	W	392	ASN
1	W	430	GLN
1	W	479	ASN
1	W	489	GLN
1	W	630	HIS
1	W	636	HIS
1	W	652	GLN
1	W	679	GLN
1	W	688	GLN
1	W	714	GLN
1	W	740	HIS
1	X	387	ASN
1	X	392	ASN
1	X	430	GLN
1	X	479	ASN
1	X	489	GLN
1	X	614	GLN
1	X	630	HIS
1	X	636	HIS
1	X	652	GLN
1	X	679	GLN
1	X	688	GLN
1	X	740	HIS
1	Y	303	ASN
1	Y	341	GLN
1	Y	367	ASN
1	Y	374	GLN
1	Y	387	ASN
1	Y	392	ASN
1	Y	430	GLN
1	Y	479	ASN
1	Y	489	GLN

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Mol	Chain	Res	Type
1	Y	614	GLN
1	Y	630	HIS
1	Y	636	HIS
1	Y	652	GLN
1	Y	679	GLN
1	Y	688	GLN
1	Y	740	HIS
1	Z	303	ASN
1	Z	341	GLN
1	Z	387	ASN
1	Z	392	ASN
1	Z	430	GLN
1	Z	479	ASN
1	Z	489	GLN
1	Z	614	GLN
1	Z	630	HIS
1	Z	636	HIS
1	Z	652	GLN
1	Z	679	GLN
1	Z	688	GLN
1	Z	740	HIS
1	a	303	ASN
1	a	341	GLN
1	a	367	ASN
1	a	387	ASN
1	a	392	ASN
1	a	430	GLN
1	a	479	ASN
1	a	489	GLN
1	a	614	GLN
1	a	630	HIS
1	a	636	HIS
1	a	652	GLN
1	a	679	GLN
1	a	688	GLN
1	a	714	GLN
1	a	740	HIS
1	b	256	ASN
1	b	303	ASN
1	b	341	GLN
1	b	367	ASN
1	b	374	GLN

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Mol	Chain	Res	Type
1	b	387	ASN
1	b	392	ASN
1	b	430	GLN
1	b	479	ASN
1	b	489	GLN
1	b	614	GLN
1	b	630	HIS
1	b	636	HIS
1	b	652	GLN
1	b	679	GLN
1	b	688	GLN
1	b	740	HIS
1	c	341	GLN
1	c	367	ASN
1	c	387	ASN
1	c	392	ASN
1	c	430	GLN
1	c	479	ASN
1	c	489	GLN
1	c	614	GLN
1	c	630	HIS
1	c	636	HIS
1	c	652	GLN
1	c	679	GLN
1	c	688	GLN
1	c	714	GLN
1	c	740	HIS
1	d	341	GLN
1	d	367	ASN
1	d	387	ASN
1	d	392	ASN
1	d	479	ASN
1	d	489	GLN
1	d	630	HIS
1	d	636	HIS
1	d	652	GLN
1	d	679	GLN
1	d	688	GLN
1	d	740	HIS
1	e	341	GLN
1	e	367	ASN
1	e	387	ASN

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Mol	Chain	Res	Type
1	e	392	ASN
1	e	430	GLN
1	e	479	ASN
1	e	489	GLN
1	e	614	GLN
1	e	630	HIS
1	e	636	HIS
1	e	652	GLN
1	e	679	GLN
1	e	688	GLN
1	e	714	GLN
1	e	740	HIS
1	f	256	ASN
1	f	303	ASN
1	f	341	GLN
1	f	367	ASN
1	f	374	GLN
1	f	387	ASN
1	f	392	ASN
1	f	430	GLN
1	f	479	ASN
1	f	489	GLN
1	f	614	GLN
1	f	630	HIS
1	f	636	HIS
1	f	652	GLN
1	f	679	GLN
1	f	688	GLN
1	f	740	HIS
1	g	303	ASN
1	g	341	GLN
1	g	367	ASN
1	g	387	ASN
1	g	392	ASN
1	g	430	GLN
1	g	479	ASN
1	g	489	GLN
1	g	630	HIS
1	g	636	HIS
1	g	652	GLN
1	g	679	GLN
1	g	688	GLN

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Mol	Chain	Res	Type
1	g	740	HIS
1	h	256	ASN
1	h	303	ASN
1	h	341	GLN
1	h	374	GLN
1	h	387	ASN
1	h	392	ASN
1	h	430	GLN
1	h	479	ASN
1	h	489	GLN
1	h	614	GLN
1	h	630	HIS
1	h	636	HIS
1	h	652	GLN
1	h	679	GLN
1	h	688	GLN
1	h	740	HIS
1	i	341	GLN
1	i	387	ASN
1	i	392	ASN
1	i	430	GLN
1	i	479	ASN
1	i	489	GLN
1	i	614	GLN
1	i	630	HIS
1	i	636	HIS
1	i	652	GLN
1	i	679	GLN
1	i	688	GLN
1	i	740	HIS
1	j	303	ASN
1	j	367	ASN
1	j	374	GLN
1	j	387	ASN
1	j	392	ASN
1	j	430	GLN
1	j	479	ASN
1	j	489	GLN
1	j	614	GLN
1	j	630	HIS
1	j	636	HIS
1	j	652	GLN

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Mol	Chain	Res	Type
1	j	679	GLN
1	j	688	GLN
1	j	740	HIS
1	k	367	ASN
1	k	387	ASN
1	k	392	ASN
1	k	430	GLN
1	k	479	ASN
1	k	489	GLN
1	k	614	GLN
1	k	630	HIS
1	k	636	HIS
1	k	652	GLN
1	k	679	GLN
1	k	688	GLN
1	k	740	HIS
1	l	341	GLN
1	l	367	ASN
1	l	387	ASN
1	l	392	ASN
1	l	430	GLN
1	l	479	ASN
1	l	489	GLN
1	l	614	GLN
1	l	630	HIS
1	l	636	HIS
1	l	652	GLN
1	l	679	GLN
1	l	688	GLN
1	l	740	HIS
1	m	341	GLN
1	m	387	ASN
1	m	392	ASN
1	m	430	GLN
1	m	479	ASN
1	m	489	GLN
1	m	630	HIS
1	m	636	HIS
1	m	652	GLN
1	m	679	GLN
1	m	688	GLN
1	m	740	HIS

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Mol	Chain	Res	Type
1	n	341	GLN
1	n	367	ASN
1	n	387	ASN
1	n	392	ASN
1	n	479	ASN
1	n	489	GLN
1	n	630	HIS
1	n	636	HIS
1	n	652	GLN
1	n	679	GLN
1	n	688	GLN
1	n	740	HIS
1	o	387	ASN
1	o	392	ASN
1	o	430	GLN
1	o	479	ASN
1	o	489	GLN
1	o	614	GLN
1	o	630	HIS
1	o	636	HIS
1	o	652	GLN
1	o	679	GLN
1	o	688	GLN
1	o	740	HIS
1	p	303	ASN
1	p	341	GLN
1	p	367	ASN
1	p	387	ASN
1	p	392	ASN
1	p	430	GLN
1	p	479	ASN
1	p	489	GLN
1	p	614	GLN
1	p	630	HIS
1	p	636	HIS
1	p	652	GLN
1	p	679	GLN
1	p	688	GLN
1	p	740	HIS
1	q	387	ASN
1	q	392	ASN
1	q	430	GLN

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Mol	Chain	Res	Type
1	q	479	ASN
1	q	489	GLN
1	q	614	GLN
1	q	630	HIS
1	q	636	HIS
1	q	652	GLN
1	q	679	GLN
1	q	688	GLN
1	q	740	HIS
1	r	341	GLN
1	r	374	GLN
1	r	387	ASN
1	r	392	ASN
1	r	430	GLN
1	r	479	ASN
1	r	489	GLN
1	r	630	HIS
1	r	636	HIS
1	r	652	GLN
1	r	679	GLN
1	r	688	GLN
1	r	740	HIS
1	s	367	ASN
1	s	387	ASN
1	s	392	ASN
1	s	430	GLN
1	s	479	ASN
1	s	489	GLN
1	s	614	GLN
1	s	630	HIS
1	s	636	HIS
1	s	652	GLN
1	s	679	GLN
1	s	688	GLN
1	s	740	HIS
1	t	303	ASN
1	t	367	ASN
1	t	387	ASN
1	t	392	ASN
1	t	430	GLN
1	t	479	ASN
1	t	489	GLN

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Mol	Chain	Res	Type
1	t	614	GLN
1	t	630	HIS
1	t	636	HIS
1	t	652	GLN
1	t	679	GLN
1	t	688	GLN
1	t	740	HIS
1	u	341	GLN
1	u	374	GLN
1	u	387	ASN
1	u	392	ASN
1	u	430	GLN
1	u	479	ASN
1	u	489	GLN
1	u	630	HIS
1	u	636	HIS
1	u	652	GLN
1	u	679	GLN
1	u	688	GLN
1	u	740	HIS
1	v	303	ASN
1	v	341	GLN
1	v	367	ASN
1	v	374	GLN
1	v	387	ASN
1	v	392	ASN
1	v	430	GLN
1	v	454	ASN
1	v	479	ASN
1	v	489	GLN
1	v	614	GLN
1	v	630	HIS
1	v	636	HIS
1	v	652	GLN
1	v	679	GLN
1	v	688	GLN
1	v	740	HIS
1	w	303	ASN
1	w	374	GLN
1	w	387	ASN
1	w	392	ASN
1	w	430	GLN

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Mol	Chain	Res	Type
1	w	479	ASN
1	w	489	GLN
1	w	614	GLN
1	w	630	HIS
1	w	636	HIS
1	w	652	GLN
1	w	679	GLN
1	w	688	GLN
1	w	740	HIS
1	x	387	ASN
1	x	392	ASN
1	x	430	GLN
1	x	479	ASN
1	x	489	GLN
1	x	630	HIS
1	x	636	HIS
1	x	652	GLN
1	x	679	GLN
1	x	688	GLN
1	x	740	HIS
1	y	367	ASN
1	y	387	ASN
1	y	392	ASN
1	y	430	GLN
1	y	479	ASN
1	y	489	GLN
1	y	614	GLN
1	y	630	HIS
1	y	636	HIS
1	y	652	GLN
1	y	679	GLN
1	y	740	HIS
1	z	341	GLN
1	z	367	ASN
1	z	387	ASN
1	z	392	ASN
1	z	430	GLN
1	z	479	ASN
1	z	489	GLN
1	z	614	GLN
1	z	630	HIS
1	z	636	HIS

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Mol	Chain	Res	Type
1	z	652	GLN
1	z	679	GLN
1	z	688	GLN
1	z	740	HIS
1	1	303	ASN
1	1	341	GLN
1	1	367	ASN
1	1	374	GLN
1	1	387	ASN
1	1	392	ASN
1	1	430	GLN
1	1	479	ASN
1	1	489	GLN
1	1	614	GLN
1	1	630	HIS
1	1	636	HIS
1	1	652	GLN
1	1	679	GLN
1	1	688	GLN
1	1	714	GLN
1	1	740	HIS
1	2	256	ASN
1	2	303	ASN
1	2	367	ASN
1	2	374	GLN
1	2	387	ASN
1	2	392	ASN
1	2	430	GLN
1	2	479	ASN
1	2	489	GLN
1	2	614	GLN
1	2	630	HIS
1	2	636	HIS
1	2	652	GLN
1	2	679	GLN
1	2	688	GLN
1	2	740	HIS
1	3	303	ASN
1	3	341	GLN
1	3	367	ASN
1	3	387	ASN
1	3	392	ASN

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Mol	Chain	Res	Type
1	3	430	GLN
1	3	479	ASN
1	3	489	GLN
1	3	614	GLN
1	3	630	HIS
1	3	636	HIS
1	3	652	GLN
1	3	679	GLN
1	3	688	GLN
1	3	714	GLN
1	3	740	HIS
1	4	256	ASN
1	4	367	ASN
1	4	374	GLN
1	4	387	ASN
1	4	392	ASN
1	4	479	ASN
1	4	489	GLN
1	4	630	HIS
1	4	636	HIS
1	4	652	GLN
1	4	679	GLN
1	4	688	GLN
1	4	740	HIS
1	5	387	ASN
1	5	392	ASN
1	5	430	GLN
1	5	479	ASN
1	5	489	GLN
1	5	576	ASN
1	5	614	GLN
1	5	630	HIS
1	5	636	HIS
1	5	652	GLN
1	5	679	GLN
1	5	688	GLN
1	5	740	HIS
1	6	341	GLN
1	6	374	GLN
1	6	387	ASN
1	6	392	ASN
1	6	430	GLN

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Mol	Chain	Res	Type
1	6	479	ASN
1	6	489	GLN
1	6	630	HIS
1	6	636	HIS
1	6	652	GLN
1	6	679	GLN
1	6	688	GLN
1	6	740	HIS
1	7	303	ASN
1	7	341	GLN
1	7	367	ASN
1	7	374	GLN
1	7	387	ASN
1	7	392	ASN
1	7	430	GLN
1	7	479	ASN
1	7	489	GLN
1	7	614	GLN
1	7	630	HIS
1	7	636	HIS
1	7	652	GLN
1	7	679	GLN
1	7	688	GLN
1	7	740	HIS
1	8	367	ASN
1	8	387	ASN
1	8	392	ASN
1	8	430	GLN
1	8	479	ASN
1	8	489	GLN
1	8	614	GLN
1	8	630	HIS
1	8	636	HIS
1	8	652	GLN
1	8	679	GLN
1	8	688	GLN
1	8	740	HIS

5.3.3 RNA

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	B	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	F	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	f	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	u	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	X	801	-	21,24,24	0.81	0	24,36,36	0.79	2 (8%)
2	D5M	Z	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	y	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	A	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	W	801	-	21,24,24	0.82	1 (4%)	24,36,36	0.77	2 (8%)
2	D5M	r	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	g	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	k	801	-	21,24,24	0.82	1 (4%)	24,36,36	0.77	2 (8%)
2	D5M	v	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	8	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	h	801	-	21,24,24	0.82	0	24,36,36	0.79	2 (8%)
2	D5M	S	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	E	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	U	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	D5M	Q	801	-	21,24,24	0.82	0	24,36,36	0.79	2 (8%)
2	D5M	J	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	w	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	1	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	N	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	q	801	-	21,24,24	0.82	0	24,36,36	0.79	2 (8%)
2	D5M	j	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	s	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	3	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	t	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	d	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	V	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	5	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	4	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	6	801	-	21,24,24	0.82	1 (4%)	24,36,36	0.77	2 (8%)
2	D5M	l	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	M	801	-	21,24,24	0.81	0	24,36,36	0.79	2 (8%)
2	D5M	n	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	H	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	T	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	o	801	-	21,24,24	0.81	0	24,36,36	0.79	2 (8%)
2	D5M	e	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	R	801	-	21,24,24	0.82	1 (4%)	24,36,36	0.79	2 (8%)
2	D5M	m	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	P	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	K	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	C	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	a	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	i	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	O	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	z	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	I	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	7	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	L	801	-	21,24,24	0.82	1 (4%)	24,36,36	0.77	2 (8%)
2	D5M	p	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	D5M	2	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	x	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	c	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	G	801	-	21,24,24	0.81	0	24,36,36	0.78	2 (8%)
2	D5M	Y	801	-	21,24,24	0.82	0	24,36,36	0.78	2 (8%)
2	D5M	D	801	-	21,24,24	0.82	1 (4%)	24,36,36	0.77	2 (8%)
2	D5M	b	801	-	21,24,24	0.82	0	24,36,36	0.78	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	B	801	-	-	3/6/22/22	0/3/3/3
2	D5M	F	801	-	-	3/6/22/22	0/3/3/3
2	D5M	f	801	-	-	3/6/22/22	0/3/3/3
2	D5M	u	801	-	-	3/6/22/22	0/3/3/3
2	D5M	X	801	-	-	3/6/22/22	0/3/3/3
2	D5M	Z	801	-	-	3/6/22/22	0/3/3/3
2	D5M	y	801	-	-	3/6/22/22	0/3/3/3
2	D5M	A	801	-	-	3/6/22/22	0/3/3/3
2	D5M	W	801	-	-	3/6/22/22	0/3/3/3
2	D5M	r	801	-	-	3/6/22/22	0/3/3/3
2	D5M	g	801	-	-	3/6/22/22	0/3/3/3
2	D5M	k	801	-	-	3/6/22/22	0/3/3/3
2	D5M	v	801	-	-	3/6/22/22	0/3/3/3
2	D5M	8	801	-	-	3/6/22/22	0/3/3/3
2	D5M	h	801	-	-	3/6/22/22	0/3/3/3
2	D5M	S	801	-	-	3/6/22/22	0/3/3/3
2	D5M	E	801	-	-	3/6/22/22	0/3/3/3
2	D5M	U	801	-	-	3/6/22/22	0/3/3/3
2	D5M	Q	801	-	-	3/6/22/22	0/3/3/3
2	D5M	J	801	-	-	3/6/22/22	0/3/3/3
2	D5M	w	801	-	-	3/6/22/22	0/3/3/3
2	D5M	1	801	-	-	3/6/22/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	N	801	-	-	3/6/22/22	0/3/3/3
2	D5M	q	801	-	-	3/6/22/22	0/3/3/3
2	D5M	j	801	-	-	3/6/22/22	0/3/3/3
2	D5M	s	801	-	-	3/6/22/22	0/3/3/3
2	D5M	3	801	-	-	3/6/22/22	0/3/3/3
2	D5M	t	801	-	-	3/6/22/22	0/3/3/3
2	D5M	d	801	-	-	3/6/22/22	0/3/3/3
2	D5M	V	801	-	-	3/6/22/22	0/3/3/3
2	D5M	5	801	-	-	3/6/22/22	0/3/3/3
2	D5M	4	801	-	-	3/6/22/22	0/3/3/3
2	D5M	6	801	-	-	3/6/22/22	0/3/3/3
2	D5M	l	801	-	-	3/6/22/22	0/3/3/3
2	D5M	M	801	-	-	3/6/22/22	0/3/3/3
2	D5M	n	801	-	-	3/6/22/22	0/3/3/3
2	D5M	H	801	-	-	3/6/22/22	0/3/3/3
2	D5M	T	801	-	-	3/6/22/22	0/3/3/3
2	D5M	o	801	-	-	3/6/22/22	0/3/3/3
2	D5M	e	801	-	-	3/6/22/22	0/3/3/3
2	D5M	R	801	-	-	3/6/22/22	0/3/3/3
2	D5M	m	801	-	-	3/6/22/22	0/3/3/3
2	D5M	P	801	-	-	3/6/22/22	0/3/3/3
2	D5M	K	801	-	-	3/6/22/22	0/3/3/3
2	D5M	C	801	-	-	3/6/22/22	0/3/3/3
2	D5M	a	801	-	-	3/6/22/22	0/3/3/3
2	D5M	i	801	-	-	3/6/22/22	0/3/3/3
2	D5M	O	801	-	-	3/6/22/22	0/3/3/3
2	D5M	z	801	-	-	3/6/22/22	0/3/3/3
2	D5M	I	801	-	-	3/6/22/22	0/3/3/3
2	D5M	7	801	-	-	3/6/22/22	0/3/3/3
2	D5M	L	801	-	-	3/6/22/22	0/3/3/3
2	D5M	p	801	-	-	3/6/22/22	0/3/3/3
2	D5M	2	801	-	-	3/6/22/22	0/3/3/3
2	D5M	x	801	-	-	3/6/22/22	0/3/3/3
2	D5M	c	801	-	-	3/6/22/22	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	D5M	G	801	-	-	3/6/22/22	0/3/3/3
2	D5M	Y	801	-	-	3/6/22/22	0/3/3/3
2	D5M	D	801	-	-	3/6/22/22	0/3/3/3
2	D5M	b	801	-	-	3/6/22/22	0/3/3/3

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	L	801	D5M	C8-N7	-2.02	1.31	1.34
2	R	801	D5M	C8-N7	-2.01	1.31	1.34
2	D	801	D5M	C8-N7	-2.00	1.31	1.34
2	W	801	D5M	C8-N7	-2.00	1.31	1.34
2	k	801	D5M	C8-N7	-2.00	1.31	1.34
2	6	801	D5M	C8-N7	-2.00	1.31	1.34

All (120) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Q	801	D5M	C5-C6-N6	2.17	123.62	120.31
2	q	801	D5M	C5-C6-N6	2.17	123.61	120.31
2	M	801	D5M	C5-C6-N6	2.16	123.61	120.31
2	X	801	D5M	C5-C6-N6	2.16	123.61	120.31
2	h	801	D5M	C5-C6-N6	2.16	123.61	120.31
2	o	801	D5M	C5-C6-N6	2.16	123.61	120.31
2	I	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	u	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	x	801	D5M	C5-C6-N6	2.15	123.59	120.31
2	U	801	D5M	C5-C6-N6	2.15	123.58	120.31
2	S	801	D5M	C5-C6-N6	2.14	123.58	120.31
2	s	801	D5M	C5-C6-N6	2.14	123.58	120.31
2	J	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	C	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	p	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	B	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	R	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	b	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	c	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	f	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	r	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	z	801	D5M	C5-C6-N6	2.13	123.56	120.31
2	A	801	D5M	C5-C6-N6	2.13	123.55	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	801	D5M	C5-C6-N6	2.13	123.55	120.31
2	y	801	D5M	C5-C6-N6	2.13	123.55	120.31
2	3	801	D5M	C5-C6-N6	2.13	123.55	120.31
2	N	801	D5M	C5-C6-N6	2.12	123.55	120.31
2	Y	801	D5M	C5-C6-N6	2.12	123.55	120.31
2	i	801	D5M	C5-C6-N6	2.12	123.55	120.31
2	7	801	D5M	C5-C6-N6	2.12	123.55	120.31
2	v	801	D5M	C5-C6-N6	2.12	123.55	120.31
2	K	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	T	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	V	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	g	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	m	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	4	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	a	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	d	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	n	801	D5M	C5-C6-N6	2.12	123.54	120.31
2	2	801	D5M	C5-C6-N6	2.12	123.53	120.31
2	D	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	W	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	k	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	6	801	D5M	C5-C6-N6	2.11	123.53	120.31
2	L	801	D5M	C5-C6-N6	2.11	123.52	120.31
2	e	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	1	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	G	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	t	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	w	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	H	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	P	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	j	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	5	801	D5M	C5-C6-N6	2.10	123.51	120.31
2	E	801	D5M	C5-C6-N6	2.09	123.50	120.31
2	O	801	D5M	C5-C6-N6	2.09	123.50	120.31
2	Z	801	D5M	C5-C6-N6	2.09	123.50	120.31
2	l	801	D5M	C5-C6-N6	2.09	123.50	120.31
2	8	801	D5M	C5-C6-N6	2.09	123.50	120.31
2	q	801	D5M	O2P-P-O1P	2.02	118.71	110.83
2	s	801	D5M	O2P-P-O1P	2.02	118.71	110.83
2	2	801	D5M	O2P-P-O1P	2.02	118.71	110.83
2	E	801	D5M	O2P-P-O1P	2.02	118.70	110.83
2	G	801	D5M	O2P-P-O1P	2.02	118.70	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	t	801	D5M	O2P-P-O1P	2.02	118.70	110.83
2	w	801	D5M	O2P-P-O1P	2.02	118.70	110.83
2	F	801	D5M	O2P-P-O1P	2.02	118.70	110.83
2	v	801	D5M	O2P-P-O1P	2.02	118.70	110.83
2	y	801	D5M	O2P-P-O1P	2.02	118.70	110.83
2	H	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	P	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	j	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	5	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	R	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	S	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	1	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	K	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	m	801	D5M	O2P-P-O1P	2.02	118.69	110.83
2	O	801	D5M	O2P-P-O1P	2.01	118.69	110.83
2	Z	801	D5M	O2P-P-O1P	2.01	118.69	110.83
2	l	801	D5M	O2P-P-O1P	2.01	118.69	110.83
2	8	801	D5M	O2P-P-O1P	2.01	118.69	110.83
2	A	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	a	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	b	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	c	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	d	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	e	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	f	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	n	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	3	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	M	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	X	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	h	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	o	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	T	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	4	801	D5M	O2P-P-O1P	2.01	118.68	110.83
2	z	801	D5M	O2P-P-O1P	2.01	118.67	110.83
2	U	801	D5M	O2P-P-O1P	2.01	118.67	110.83
2	B	801	D5M	O2P-P-O1P	2.01	118.67	110.83
2	J	801	D5M	O2P-P-O1P	2.01	118.67	110.83
2	N	801	D5M	O2P-P-O1P	2.01	118.66	110.83
2	Y	801	D5M	O2P-P-O1P	2.01	118.66	110.83
2	i	801	D5M	O2P-P-O1P	2.01	118.66	110.83
2	7	801	D5M	O2P-P-O1P	2.01	118.66	110.83
2	L	801	D5M	O2P-P-O1P	2.01	118.65	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	r	801	D5M	O2P-P-O1P	2.01	118.65	110.83
2	u	801	D5M	O2P-P-O1P	2.01	118.65	110.83
2	V	801	D5M	O2P-P-O1P	2.00	118.64	110.83
2	C	801	D5M	O2P-P-O1P	2.00	118.64	110.83
2	I	801	D5M	O2P-P-O1P	2.00	118.64	110.83
2	Q	801	D5M	O2P-P-O1P	2.00	118.64	110.83
2	p	801	D5M	O2P-P-O1P	2.00	118.64	110.83
2	x	801	D5M	O2P-P-O1P	2.00	118.64	110.83
2	g	801	D5M	O2P-P-O1P	2.00	118.63	110.83
2	D	801	D5M	O2P-P-O1P	2.00	118.63	110.83
2	W	801	D5M	O2P-P-O1P	2.00	118.63	110.83
2	k	801	D5M	O2P-P-O1P	2.00	118.63	110.83
2	6	801	D5M	O2P-P-O1P	2.00	118.63	110.83

There are no chirality outliers.

All (180) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	D5M	C5'-O5'-P-O1P
2	A	801	D5M	C5'-O5'-P-O3P
2	A	801	D5M	C5'-O5'-P-O2P
2	B	801	D5M	C5'-O5'-P-O1P
2	B	801	D5M	C5'-O5'-P-O3P
2	B	801	D5M	C5'-O5'-P-O2P
2	C	801	D5M	C5'-O5'-P-O1P
2	C	801	D5M	C5'-O5'-P-O3P
2	C	801	D5M	C5'-O5'-P-O2P
2	D	801	D5M	C5'-O5'-P-O1P
2	D	801	D5M	C5'-O5'-P-O3P
2	D	801	D5M	C5'-O5'-P-O2P
2	E	801	D5M	C5'-O5'-P-O1P
2	E	801	D5M	C5'-O5'-P-O3P
2	E	801	D5M	C5'-O5'-P-O2P
2	F	801	D5M	C5'-O5'-P-O1P
2	F	801	D5M	C5'-O5'-P-O3P
2	F	801	D5M	C5'-O5'-P-O2P
2	G	801	D5M	C5'-O5'-P-O1P
2	G	801	D5M	C5'-O5'-P-O3P
2	G	801	D5M	C5'-O5'-P-O2P
2	H	801	D5M	C5'-O5'-P-O1P
2	H	801	D5M	C5'-O5'-P-O3P
2	H	801	D5M	C5'-O5'-P-O2P

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Mol	Chain	Res	Type	Atoms
2	I	801	D5M	C5'-O5'-P-O1P
2	I	801	D5M	C5'-O5'-P-O3P
2	I	801	D5M	C5'-O5'-P-O2P
2	J	801	D5M	C5'-O5'-P-O1P
2	J	801	D5M	C5'-O5'-P-O3P
2	J	801	D5M	C5'-O5'-P-O2P
2	K	801	D5M	C5'-O5'-P-O1P
2	K	801	D5M	C5'-O5'-P-O3P
2	K	801	D5M	C5'-O5'-P-O2P
2	L	801	D5M	C5'-O5'-P-O1P
2	L	801	D5M	C5'-O5'-P-O3P
2	L	801	D5M	C5'-O5'-P-O2P
2	M	801	D5M	C5'-O5'-P-O1P
2	M	801	D5M	C5'-O5'-P-O3P
2	M	801	D5M	C5'-O5'-P-O2P
2	N	801	D5M	C5'-O5'-P-O1P
2	N	801	D5M	C5'-O5'-P-O3P
2	N	801	D5M	C5'-O5'-P-O2P
2	O	801	D5M	C5'-O5'-P-O1P
2	O	801	D5M	C5'-O5'-P-O3P
2	O	801	D5M	C5'-O5'-P-O2P
2	P	801	D5M	C5'-O5'-P-O1P
2	P	801	D5M	C5'-O5'-P-O3P
2	P	801	D5M	C5'-O5'-P-O2P
2	Q	801	D5M	C5'-O5'-P-O1P
2	Q	801	D5M	C5'-O5'-P-O3P
2	Q	801	D5M	C5'-O5'-P-O2P
2	R	801	D5M	C5'-O5'-P-O1P
2	R	801	D5M	C5'-O5'-P-O3P
2	R	801	D5M	C5'-O5'-P-O2P
2	S	801	D5M	C5'-O5'-P-O1P
2	S	801	D5M	C5'-O5'-P-O3P
2	S	801	D5M	C5'-O5'-P-O2P
2	T	801	D5M	C5'-O5'-P-O1P
2	T	801	D5M	C5'-O5'-P-O3P
2	T	801	D5M	C5'-O5'-P-O2P
2	U	801	D5M	C5'-O5'-P-O1P
2	U	801	D5M	C5'-O5'-P-O3P
2	U	801	D5M	C5'-O5'-P-O2P
2	V	801	D5M	C5'-O5'-P-O1P
2	V	801	D5M	C5'-O5'-P-O3P
2	V	801	D5M	C5'-O5'-P-O2P

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Mol	Chain	Res	Type	Atoms
2	W	801	D5M	C5'-O5'-P-O1P
2	W	801	D5M	C5'-O5'-P-O3P
2	W	801	D5M	C5'-O5'-P-O2P
2	X	801	D5M	C5'-O5'-P-O1P
2	X	801	D5M	C5'-O5'-P-O3P
2	X	801	D5M	C5'-O5'-P-O2P
2	Y	801	D5M	C5'-O5'-P-O1P
2	Y	801	D5M	C5'-O5'-P-O3P
2	Y	801	D5M	C5'-O5'-P-O2P
2	Z	801	D5M	C5'-O5'-P-O1P
2	Z	801	D5M	C5'-O5'-P-O3P
2	Z	801	D5M	C5'-O5'-P-O2P
2	a	801	D5M	C5'-O5'-P-O1P
2	a	801	D5M	C5'-O5'-P-O3P
2	a	801	D5M	C5'-O5'-P-O2P
2	b	801	D5M	C5'-O5'-P-O1P
2	b	801	D5M	C5'-O5'-P-O3P
2	b	801	D5M	C5'-O5'-P-O2P
2	c	801	D5M	C5'-O5'-P-O1P
2	c	801	D5M	C5'-O5'-P-O3P
2	c	801	D5M	C5'-O5'-P-O2P
2	d	801	D5M	C5'-O5'-P-O1P
2	d	801	D5M	C5'-O5'-P-O3P
2	d	801	D5M	C5'-O5'-P-O2P
2	e	801	D5M	C5'-O5'-P-O1P
2	e	801	D5M	C5'-O5'-P-O3P
2	e	801	D5M	C5'-O5'-P-O2P
2	f	801	D5M	C5'-O5'-P-O1P
2	f	801	D5M	C5'-O5'-P-O3P
2	f	801	D5M	C5'-O5'-P-O2P
2	g	801	D5M	C5'-O5'-P-O1P
2	g	801	D5M	C5'-O5'-P-O3P
2	g	801	D5M	C5'-O5'-P-O2P
2	h	801	D5M	C5'-O5'-P-O1P
2	h	801	D5M	C5'-O5'-P-O3P
2	h	801	D5M	C5'-O5'-P-O2P
2	i	801	D5M	C5'-O5'-P-O1P
2	i	801	D5M	C5'-O5'-P-O3P
2	i	801	D5M	C5'-O5'-P-O2P
2	j	801	D5M	C5'-O5'-P-O1P
2	j	801	D5M	C5'-O5'-P-O3P
2	j	801	D5M	C5'-O5'-P-O2P

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Mol	Chain	Res	Type	Atoms
2	k	801	D5M	C5'-O5'-P-O1P
2	k	801	D5M	C5'-O5'-P-O3P
2	k	801	D5M	C5'-O5'-P-O2P
2	l	801	D5M	C5'-O5'-P-O1P
2	l	801	D5M	C5'-O5'-P-O3P
2	l	801	D5M	C5'-O5'-P-O2P
2	m	801	D5M	C5'-O5'-P-O1P
2	m	801	D5M	C5'-O5'-P-O3P
2	m	801	D5M	C5'-O5'-P-O2P
2	n	801	D5M	C5'-O5'-P-O1P
2	n	801	D5M	C5'-O5'-P-O3P
2	n	801	D5M	C5'-O5'-P-O2P
2	o	801	D5M	C5'-O5'-P-O1P
2	o	801	D5M	C5'-O5'-P-O3P
2	o	801	D5M	C5'-O5'-P-O2P
2	p	801	D5M	C5'-O5'-P-O1P
2	p	801	D5M	C5'-O5'-P-O3P
2	p	801	D5M	C5'-O5'-P-O2P
2	q	801	D5M	C5'-O5'-P-O1P
2	q	801	D5M	C5'-O5'-P-O3P
2	q	801	D5M	C5'-O5'-P-O2P
2	r	801	D5M	C5'-O5'-P-O1P
2	r	801	D5M	C5'-O5'-P-O3P
2	r	801	D5M	C5'-O5'-P-O2P
2	s	801	D5M	C5'-O5'-P-O1P
2	s	801	D5M	C5'-O5'-P-O3P
2	s	801	D5M	C5'-O5'-P-O2P
2	t	801	D5M	C5'-O5'-P-O1P
2	t	801	D5M	C5'-O5'-P-O3P
2	t	801	D5M	C5'-O5'-P-O2P
2	u	801	D5M	C5'-O5'-P-O1P
2	u	801	D5M	C5'-O5'-P-O3P
2	u	801	D5M	C5'-O5'-P-O2P
2	v	801	D5M	C5'-O5'-P-O1P
2	v	801	D5M	C5'-O5'-P-O3P
2	v	801	D5M	C5'-O5'-P-O2P
2	w	801	D5M	C5'-O5'-P-O1P
2	w	801	D5M	C5'-O5'-P-O3P
2	w	801	D5M	C5'-O5'-P-O2P
2	x	801	D5M	C5'-O5'-P-O1P
2	x	801	D5M	C5'-O5'-P-O3P
2	x	801	D5M	C5'-O5'-P-O2P

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Mol	Chain	Res	Type	Atoms
2	y	801	D5M	C5'-O5'-P-O1P
2	y	801	D5M	C5'-O5'-P-O3P
2	y	801	D5M	C5'-O5'-P-O2P
2	z	801	D5M	C5'-O5'-P-O1P
2	z	801	D5M	C5'-O5'-P-O3P
2	z	801	D5M	C5'-O5'-P-O2P
2	1	801	D5M	C5'-O5'-P-O1P
2	1	801	D5M	C5'-O5'-P-O3P
2	1	801	D5M	C5'-O5'-P-O2P
2	2	801	D5M	C5'-O5'-P-O1P
2	2	801	D5M	C5'-O5'-P-O3P
2	2	801	D5M	C5'-O5'-P-O2P
2	3	801	D5M	C5'-O5'-P-O1P
2	3	801	D5M	C5'-O5'-P-O3P
2	3	801	D5M	C5'-O5'-P-O2P
2	4	801	D5M	C5'-O5'-P-O1P
2	4	801	D5M	C5'-O5'-P-O3P
2	4	801	D5M	C5'-O5'-P-O2P
2	5	801	D5M	C5'-O5'-P-O1P
2	5	801	D5M	C5'-O5'-P-O3P
2	5	801	D5M	C5'-O5'-P-O2P
2	6	801	D5M	C5'-O5'-P-O1P
2	6	801	D5M	C5'-O5'-P-O3P
2	6	801	D5M	C5'-O5'-P-O2P
2	7	801	D5M	C5'-O5'-P-O1P
2	7	801	D5M	C5'-O5'-P-O3P
2	7	801	D5M	C5'-O5'-P-O2P
2	8	801	D5M	C5'-O5'-P-O1P
2	8	801	D5M	C5'-O5'-P-O3P
2	8	801	D5M	C5'-O5'-P-O2P

There are no ring outliers.

60 monomers are involved in 60 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	801	D5M	1	0
2	F	801	D5M	1	0
2	f	801	D5M	1	0
2	u	801	D5M	1	0
2	X	801	D5M	1	0
2	Z	801	D5M	1	0
2	y	801	D5M	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	801	D5M	1	0
2	W	801	D5M	1	0
2	r	801	D5M	1	0
2	g	801	D5M	1	0
2	k	801	D5M	1	0
2	v	801	D5M	1	0
2	8	801	D5M	1	0
2	h	801	D5M	1	0
2	S	801	D5M	1	0
2	E	801	D5M	1	0
2	U	801	D5M	1	0
2	Q	801	D5M	1	0
2	J	801	D5M	1	0
2	w	801	D5M	1	0
2	1	801	D5M	1	0
2	N	801	D5M	1	0
2	q	801	D5M	1	0
2	j	801	D5M	1	0
2	s	801	D5M	1	0
2	3	801	D5M	1	0
2	t	801	D5M	1	0
2	d	801	D5M	1	0
2	V	801	D5M	1	0
2	5	801	D5M	1	0
2	4	801	D5M	1	0
2	6	801	D5M	1	0
2	l	801	D5M	1	0
2	M	801	D5M	1	0
2	n	801	D5M	1	0
2	H	801	D5M	1	0
2	T	801	D5M	1	0
2	o	801	D5M	1	0
2	e	801	D5M	1	0
2	R	801	D5M	1	0
2	m	801	D5M	1	0
2	P	801	D5M	1	0
2	K	801	D5M	1	0
2	C	801	D5M	1	0
2	a	801	D5M	1	0
2	i	801	D5M	1	0
2	O	801	D5M	1	0
2	z	801	D5M	1	0

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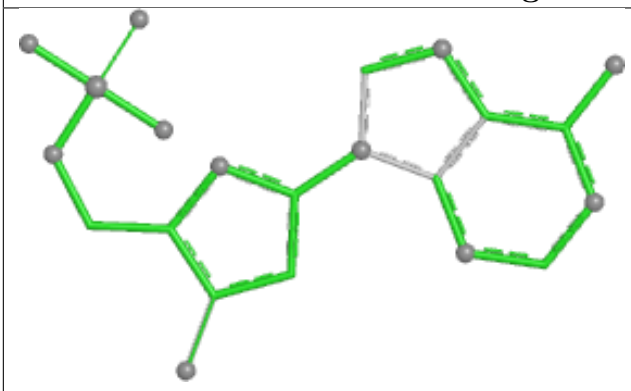
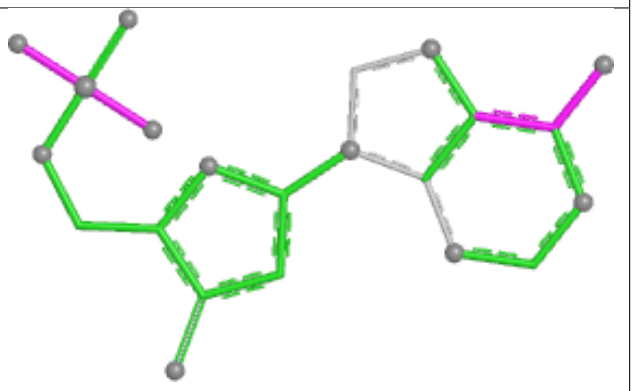
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	I	801	D5M	1	0
2	7	801	D5M	1	0
2	L	801	D5M	1	0
2	p	801	D5M	1	0
2	2	801	D5M	1	0
2	x	801	D5M	1	0
2	c	801	D5M	1	0
2	G	801	D5M	1	0
2	Y	801	D5M	1	0
2	D	801	D5M	1	0
2	b	801	D5M	1	0

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 then 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.

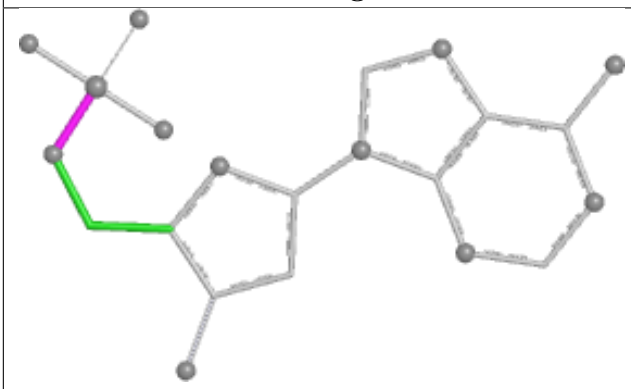
Ligand D5M B 801



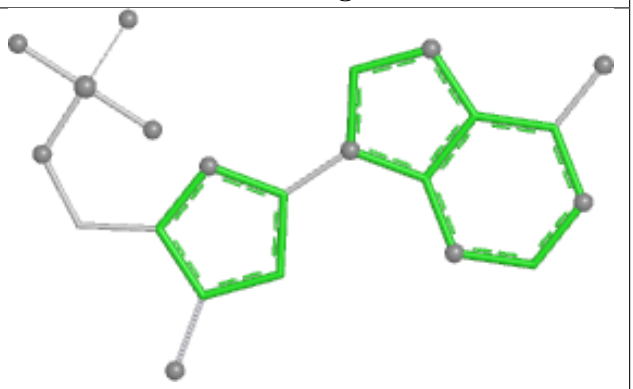
Bond lengths



Bond angles

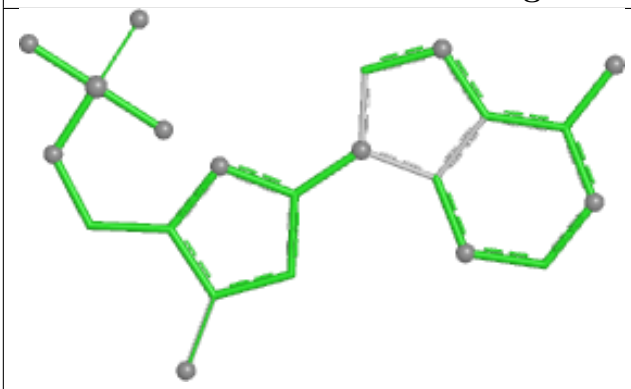


Torsions



Rings

Ligand D5M F 801



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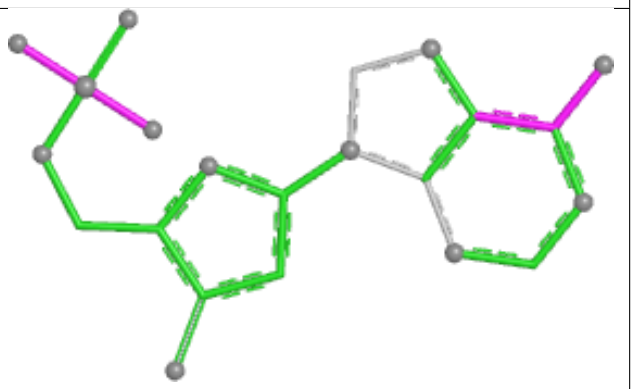

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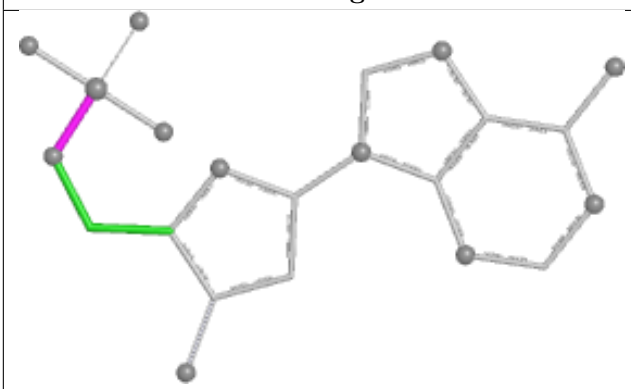

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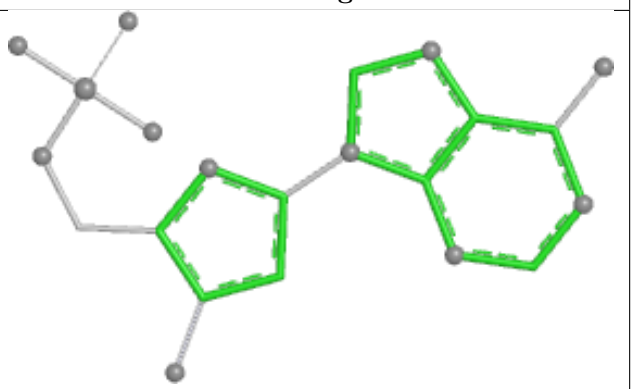
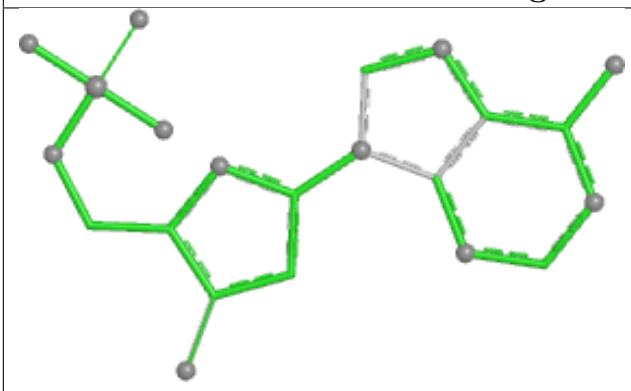


Rings

Ligand D5M f 801



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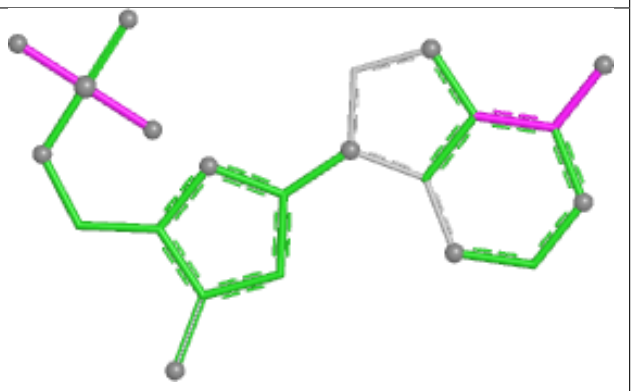
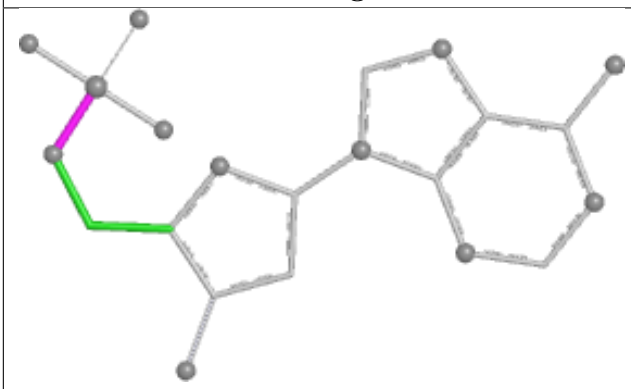
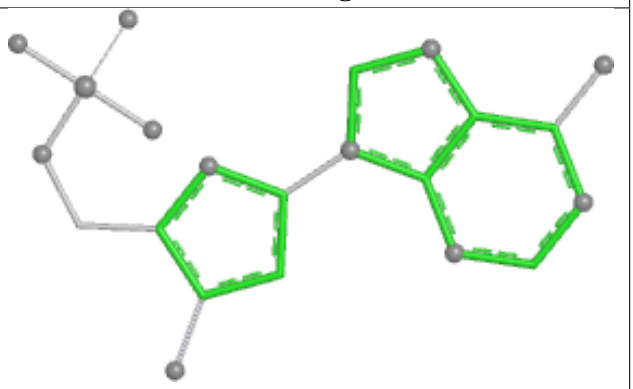


Bond angles

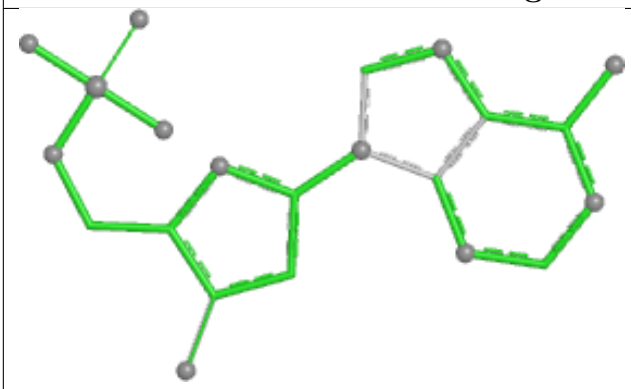


Torsions



Rings

Ligand D5M u 801



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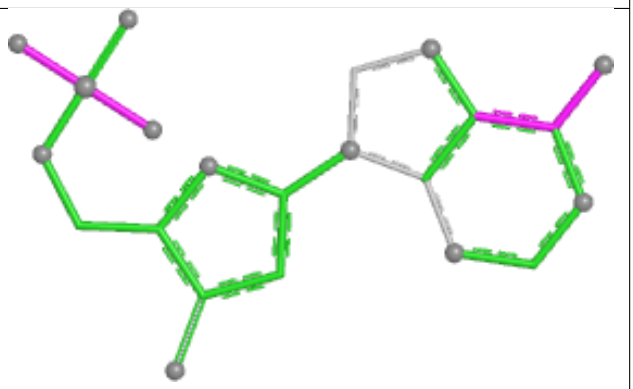
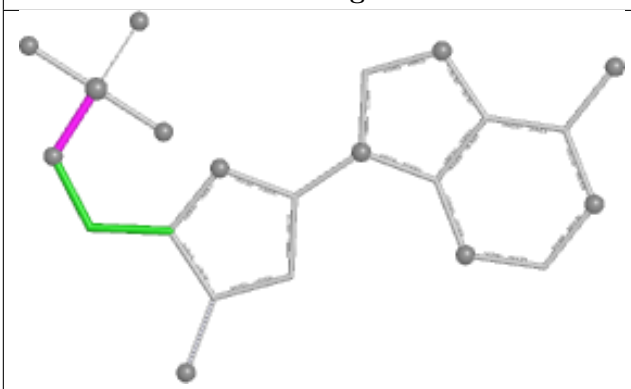
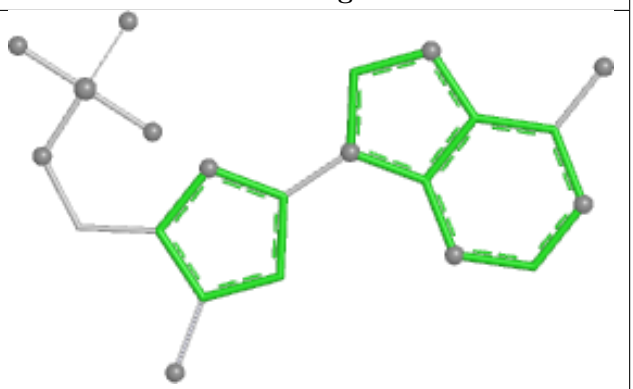


Bond angles

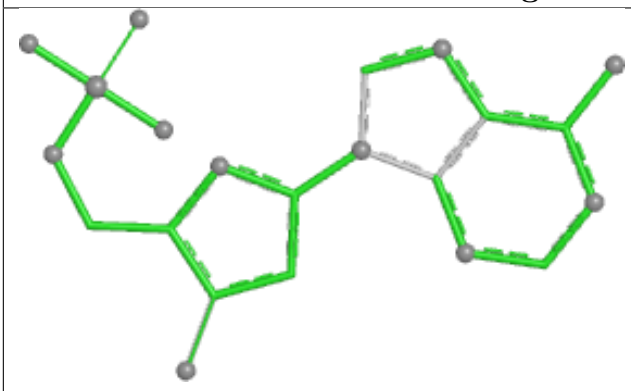


Torsions

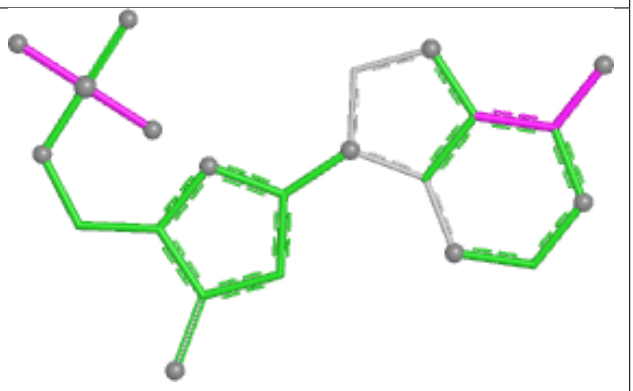


Rings

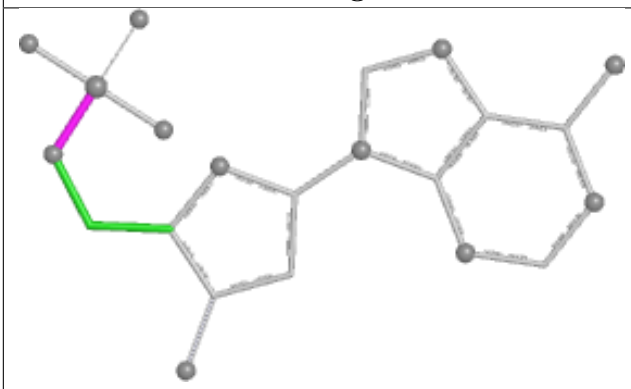
Ligand D5M X 801



Bond lengths



Bond angles



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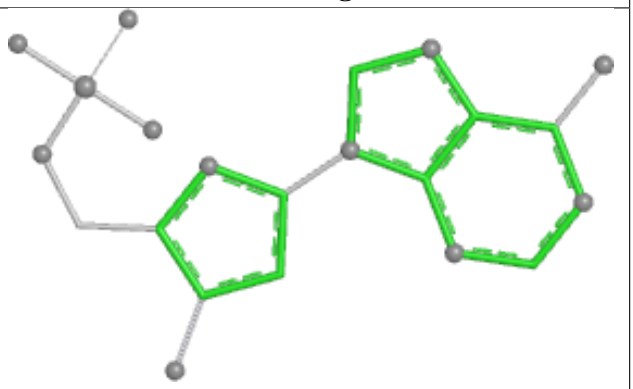
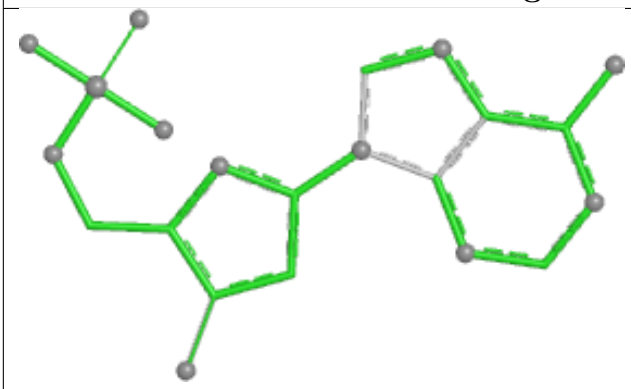


Rings

Ligand D5M Z 801



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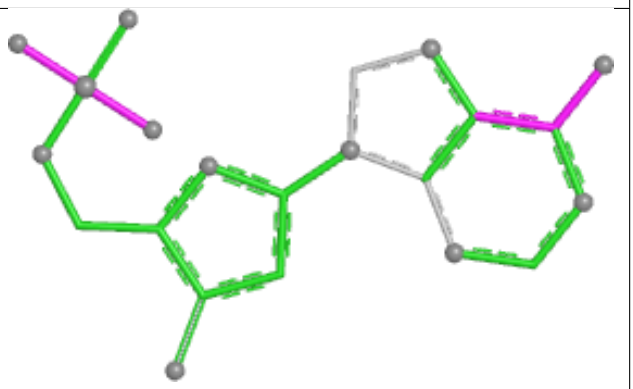
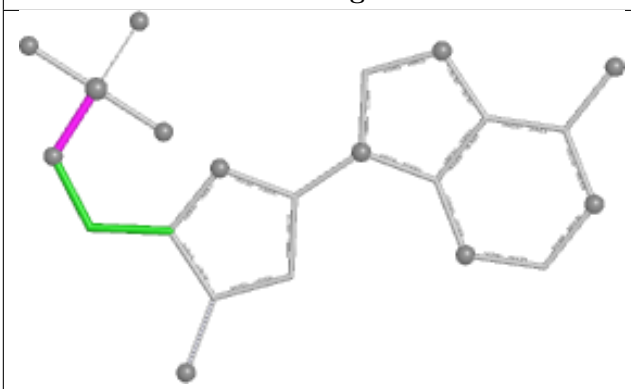


Bond angles



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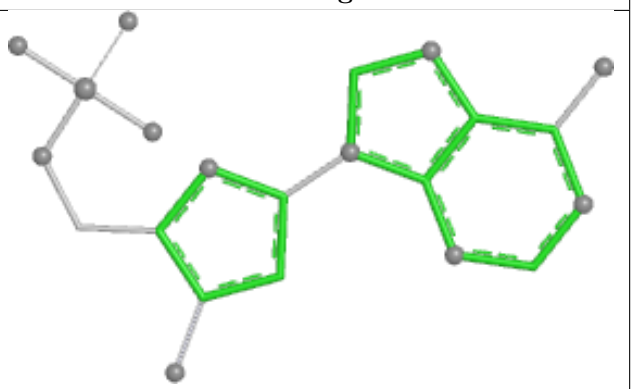
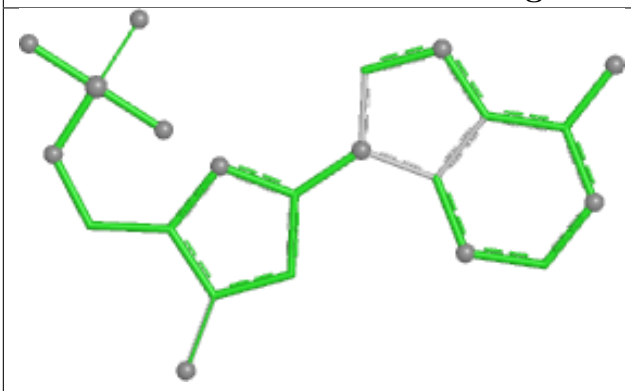


Rings

Ligand D5M y 801



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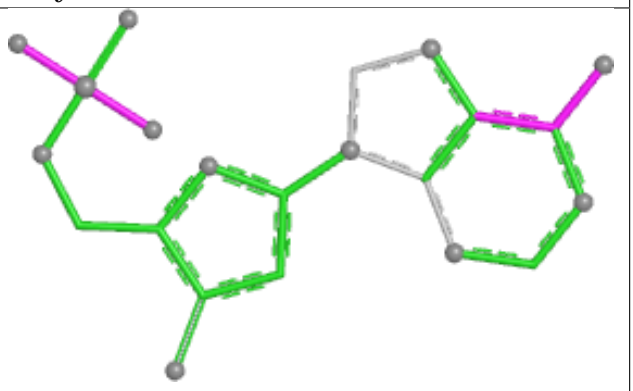

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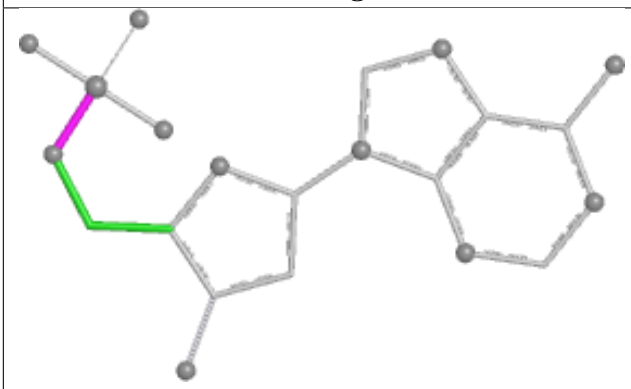

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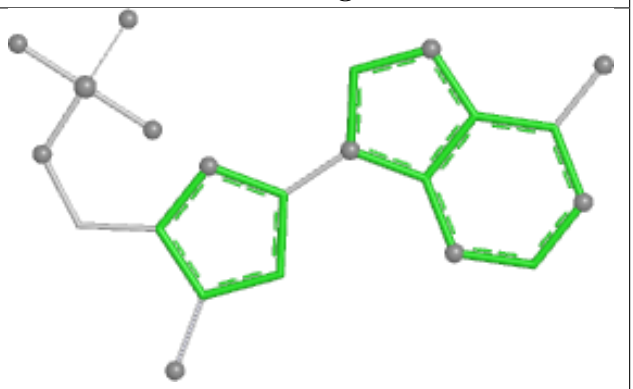
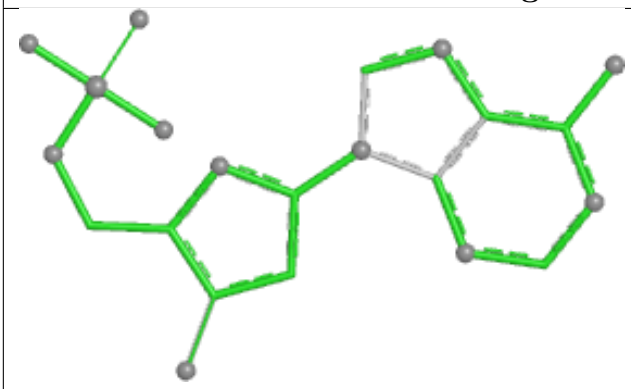
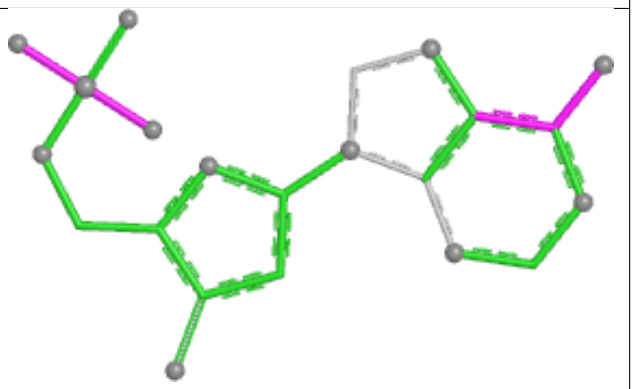


Rings

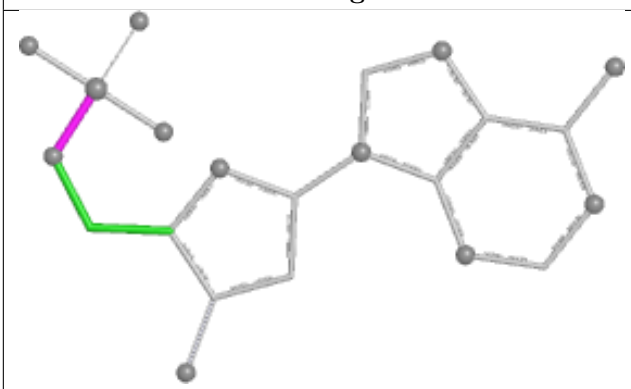
Ligand D5M A 801



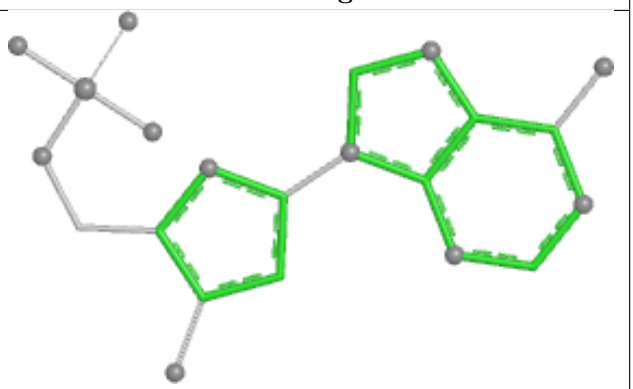
Bond lengths



Bond angles

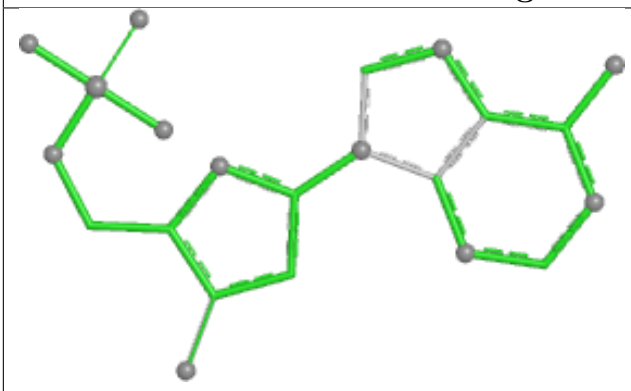


Torsions

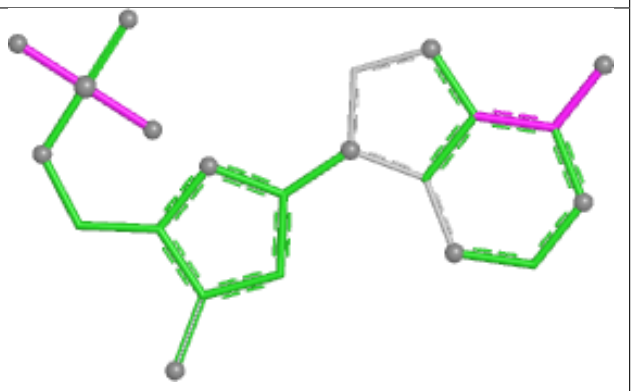


Rings

Ligand D5M W 801



Bond lengths



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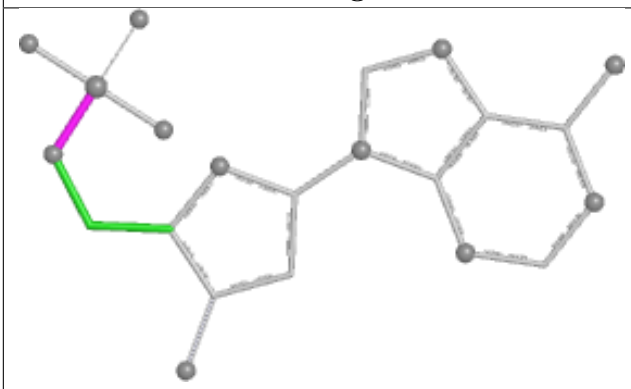

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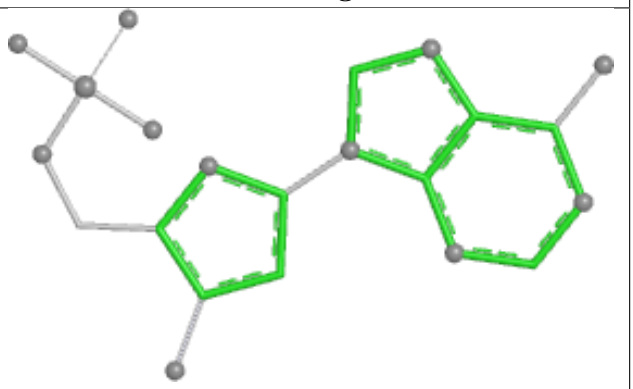
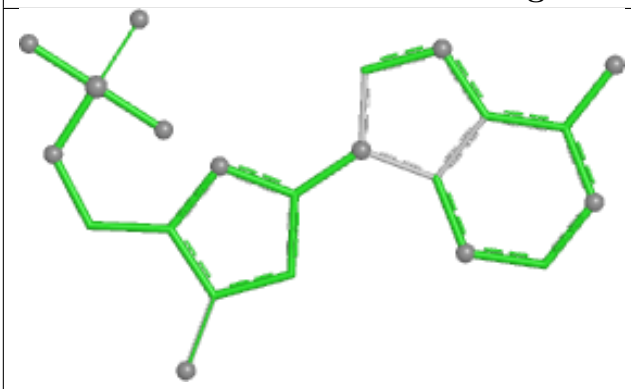


Rings

Ligand D5M r 801



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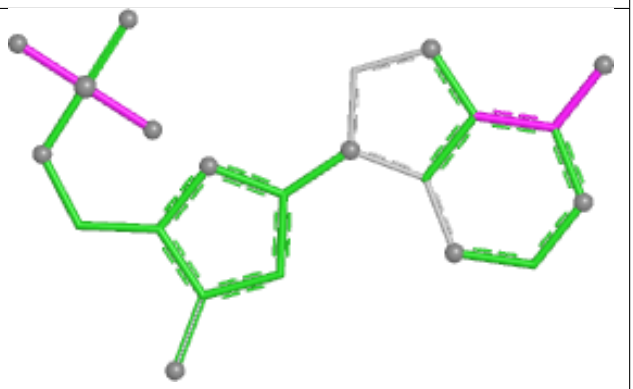

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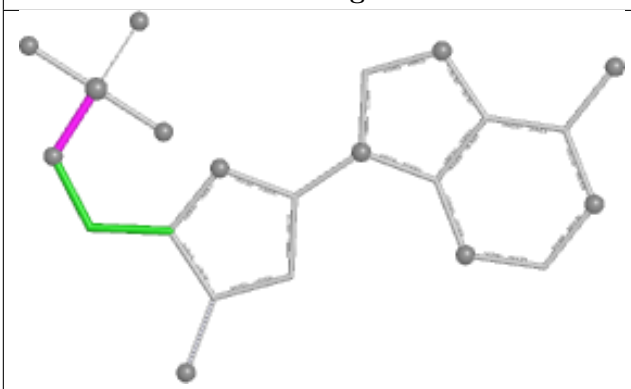

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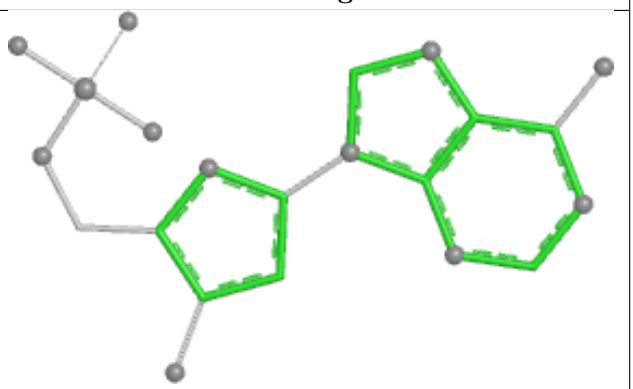

Rings

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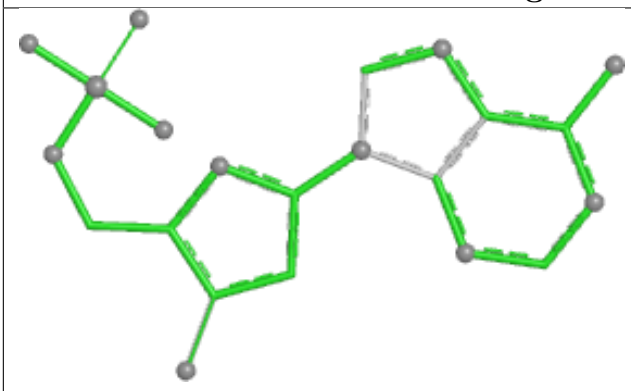

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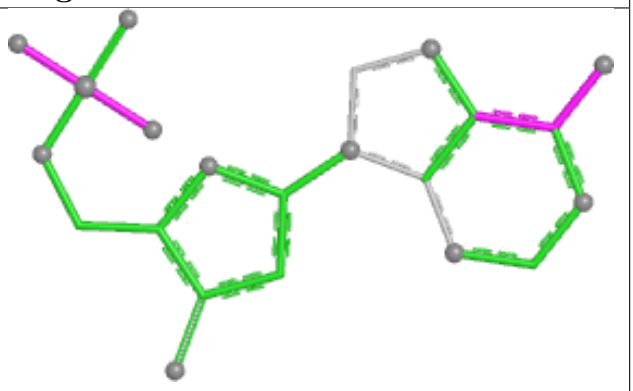

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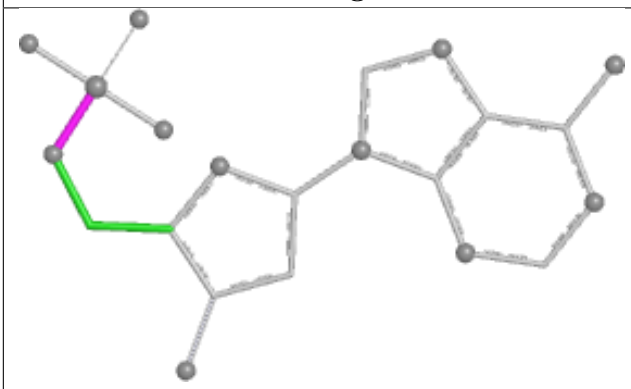

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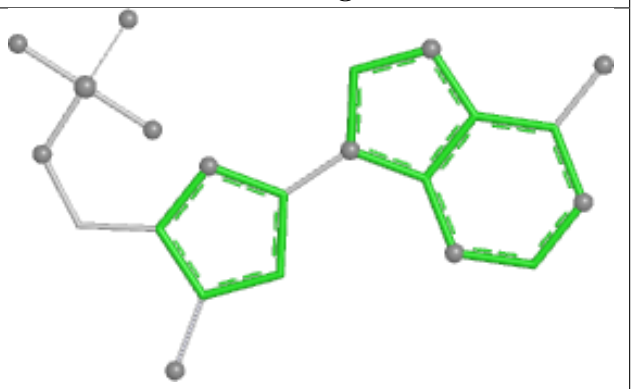

Rings

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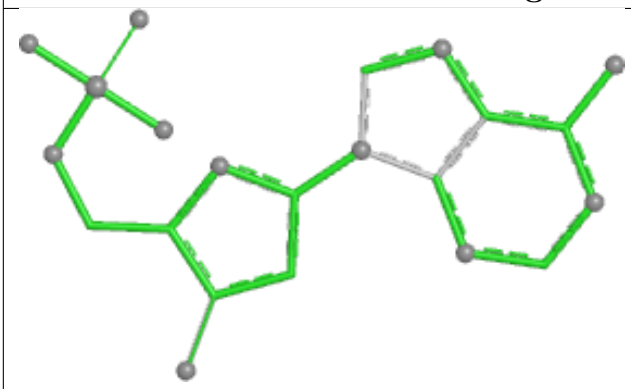

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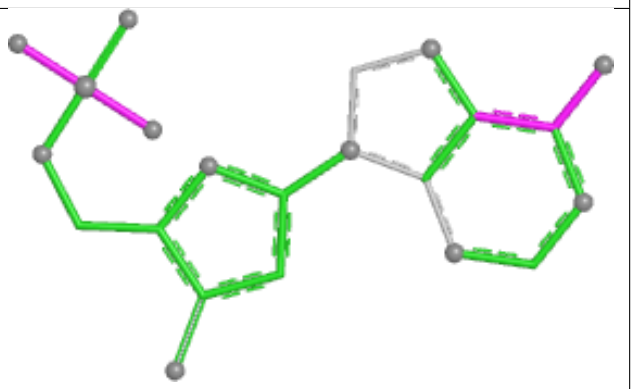

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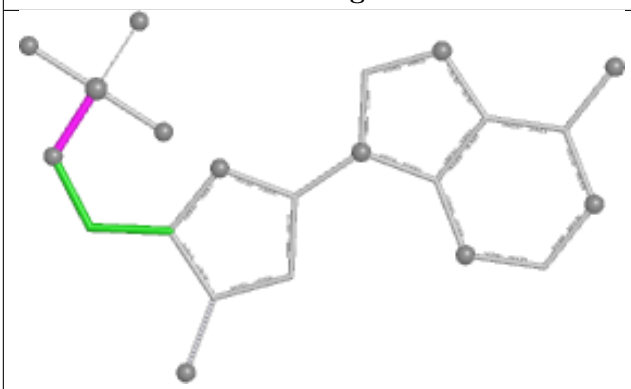

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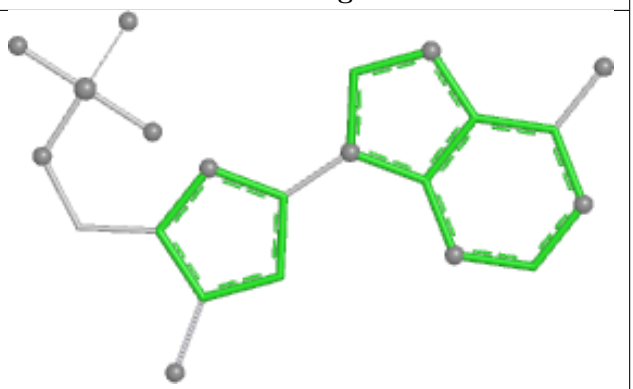

Rings

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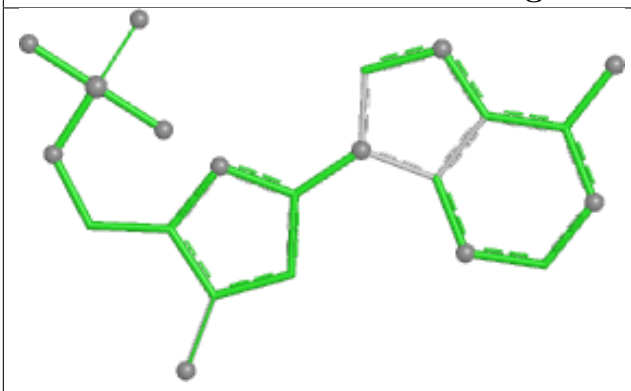

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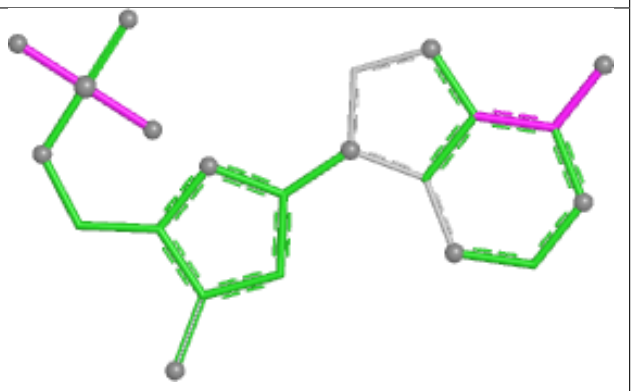

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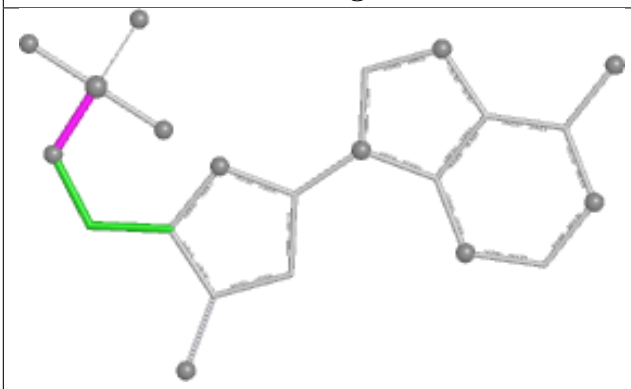

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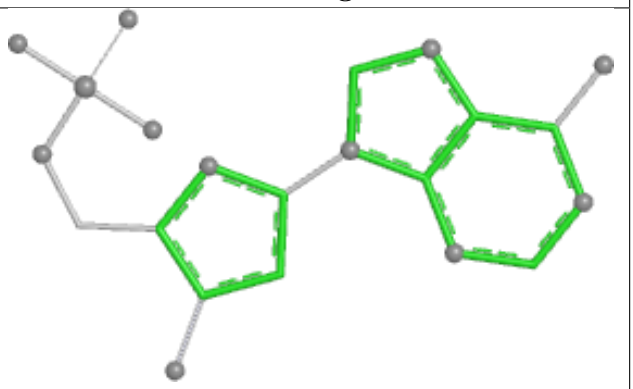

Rings

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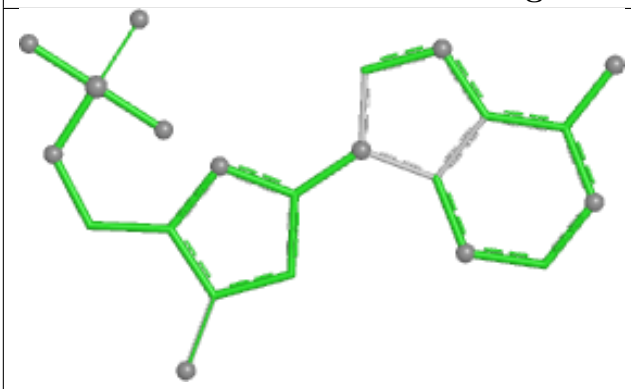

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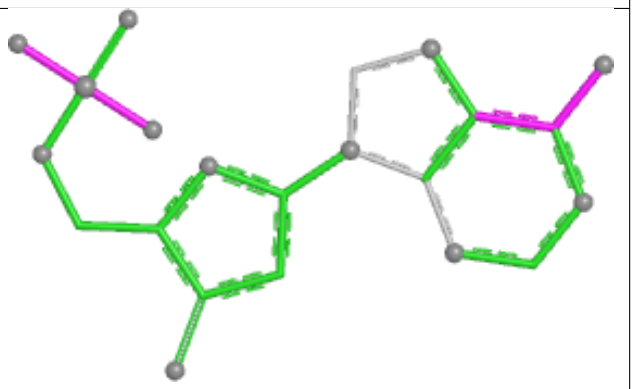

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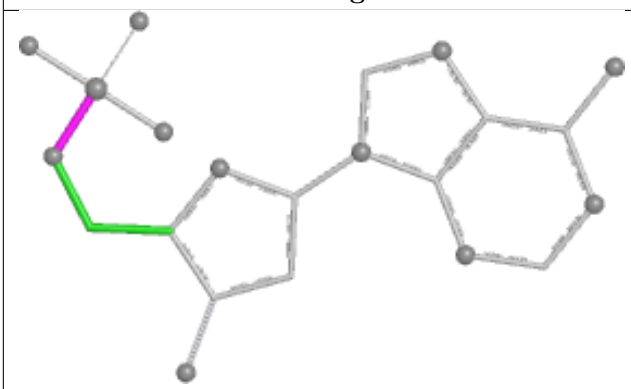

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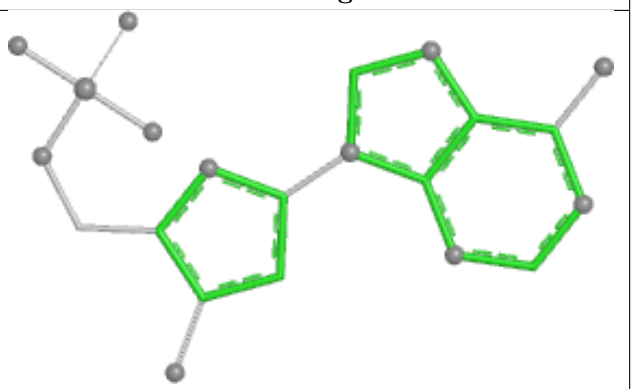

Rings

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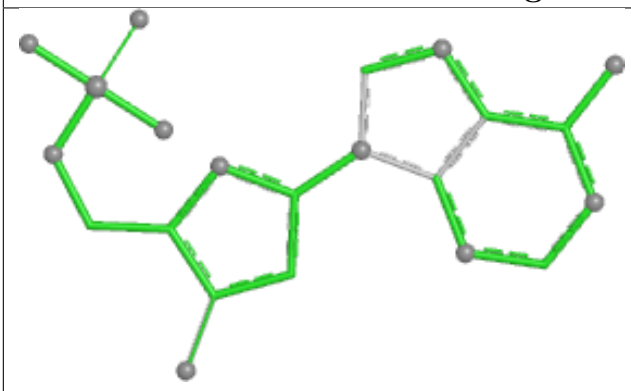

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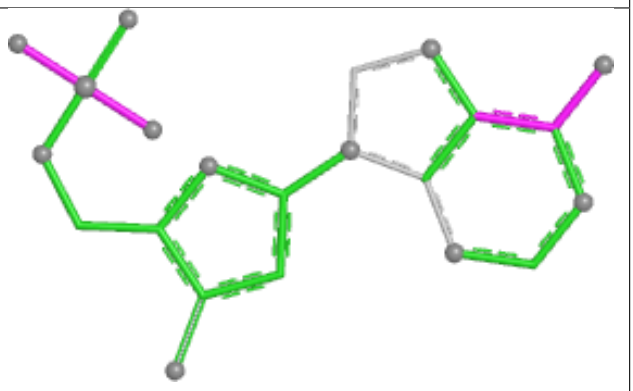

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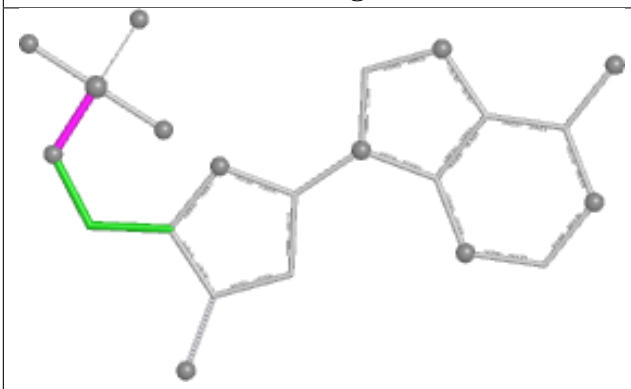

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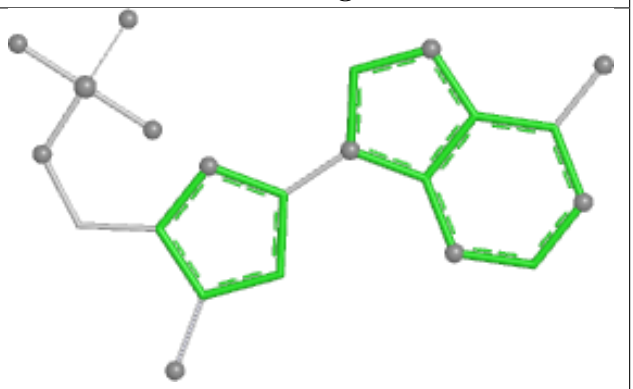

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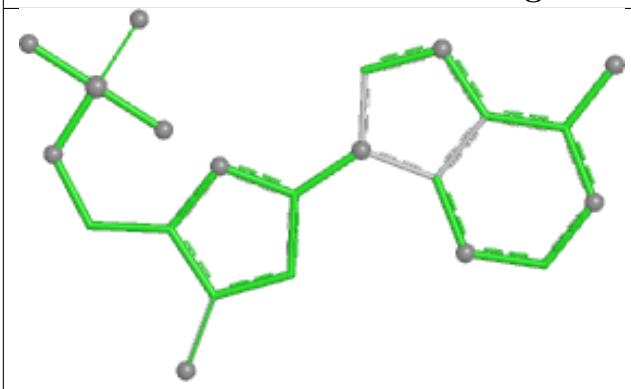

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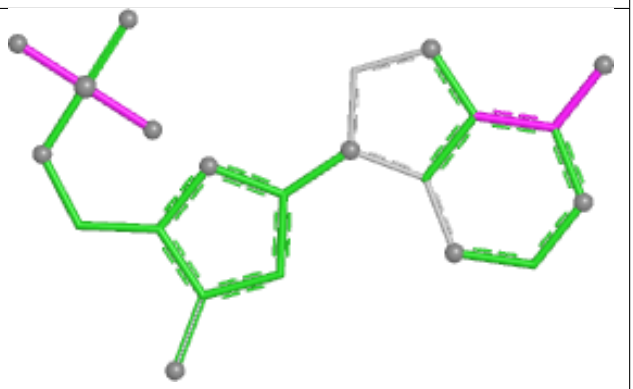

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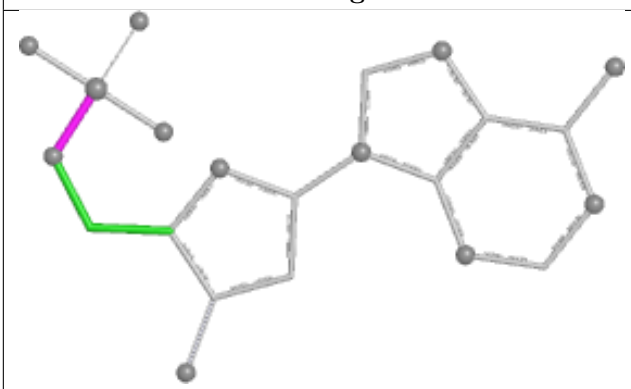

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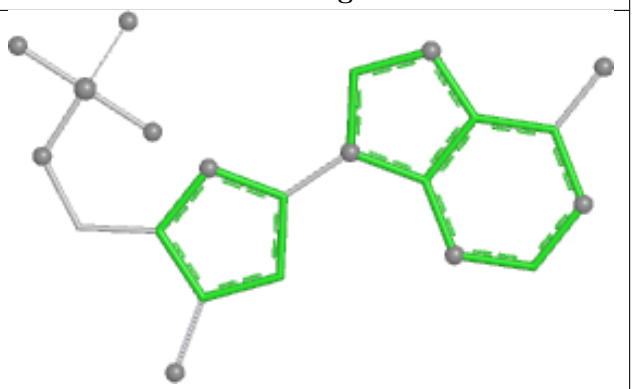

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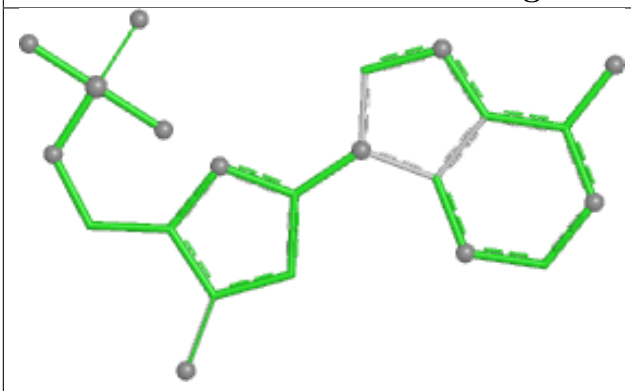

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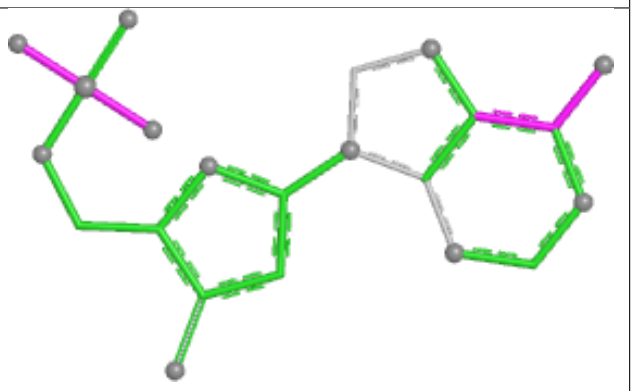

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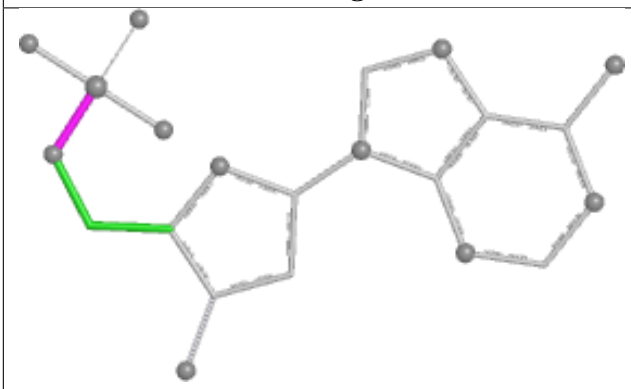

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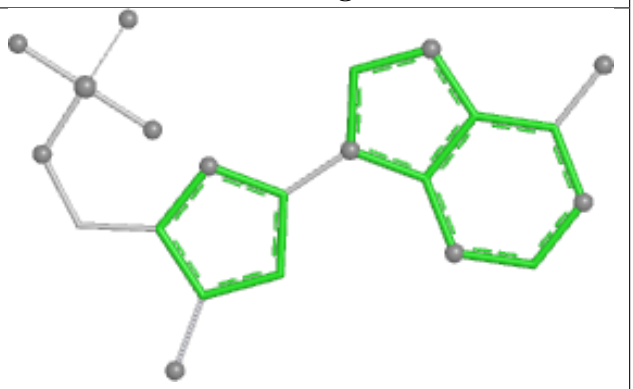

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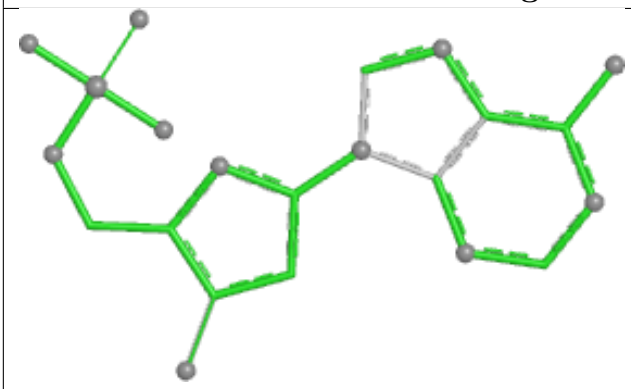

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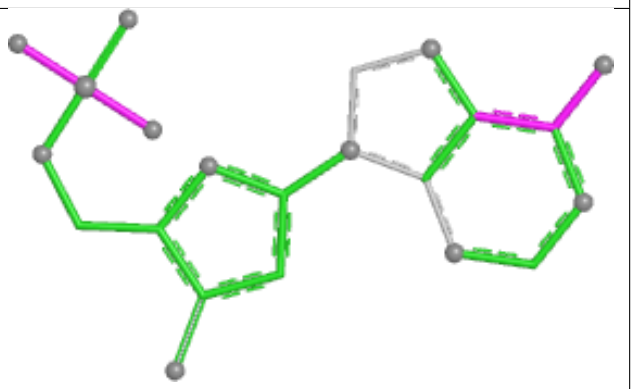

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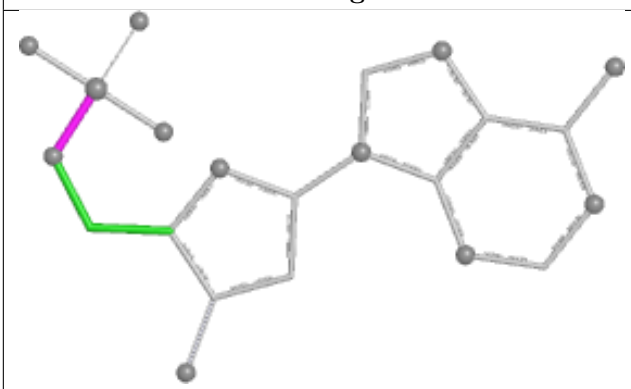

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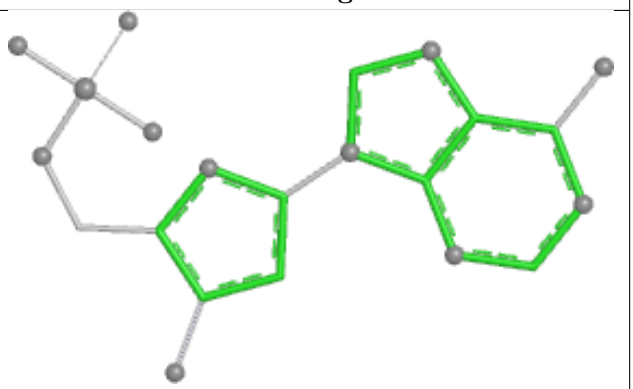

Rings

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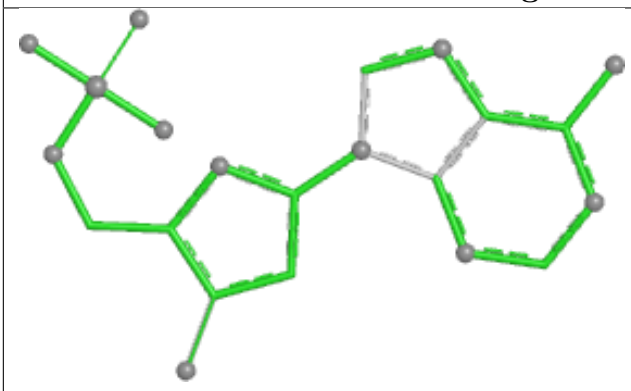

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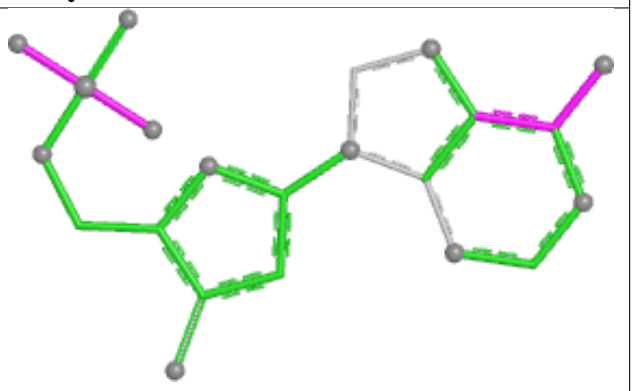

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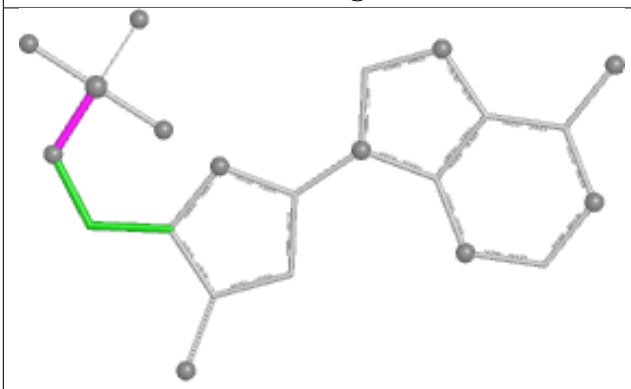

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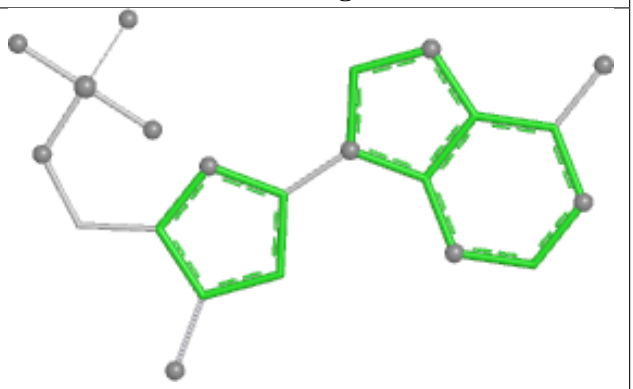

Rings

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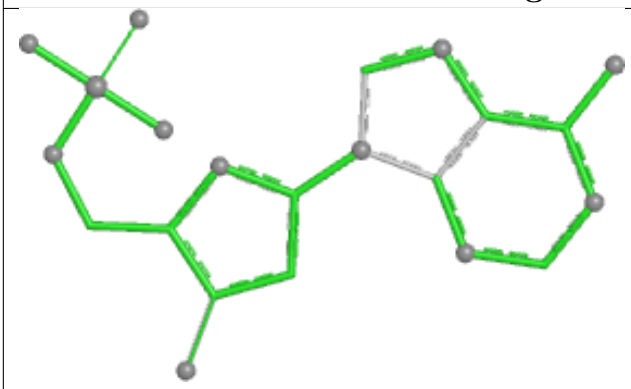

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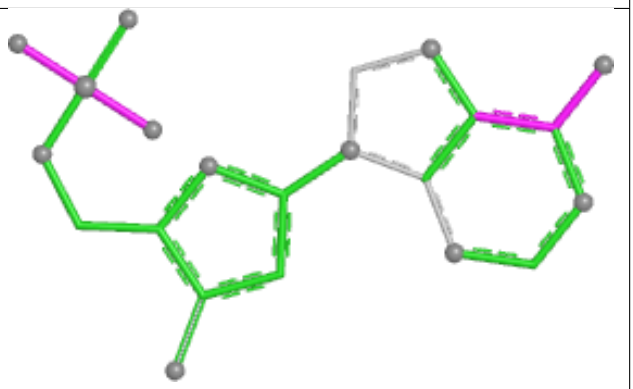

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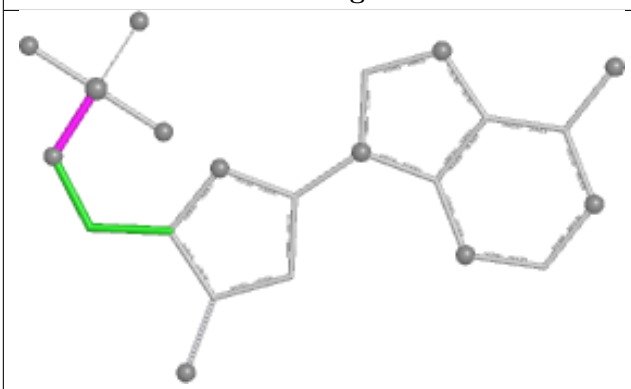

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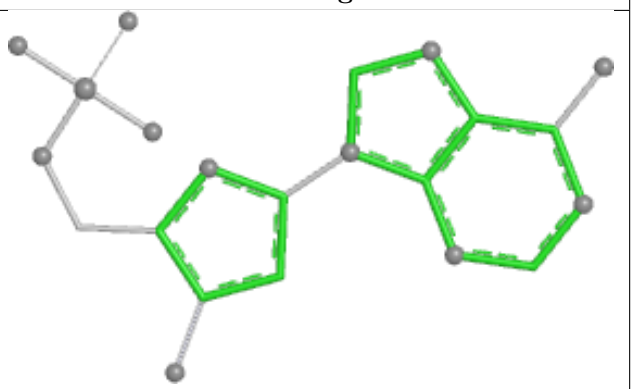
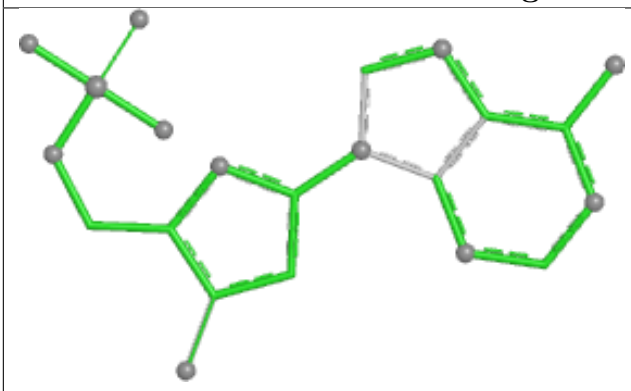


Rings

Ligand D5M w 801



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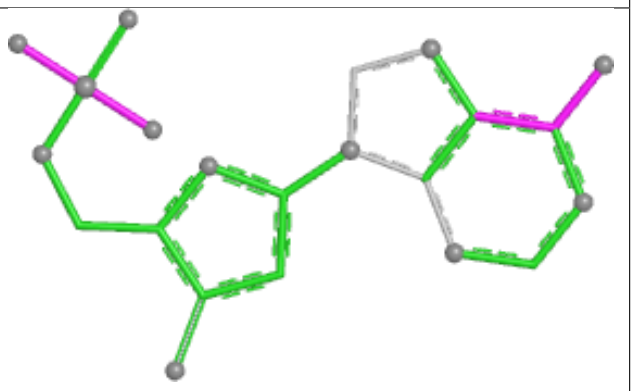

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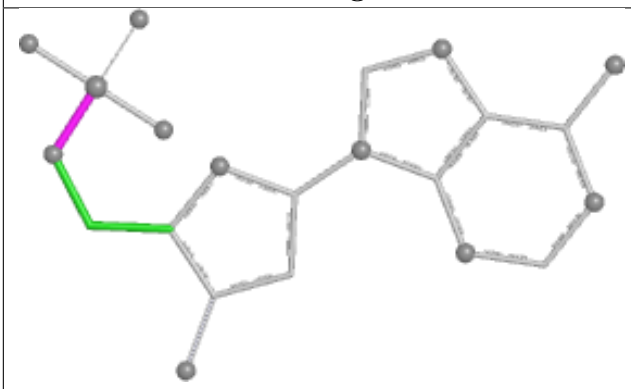

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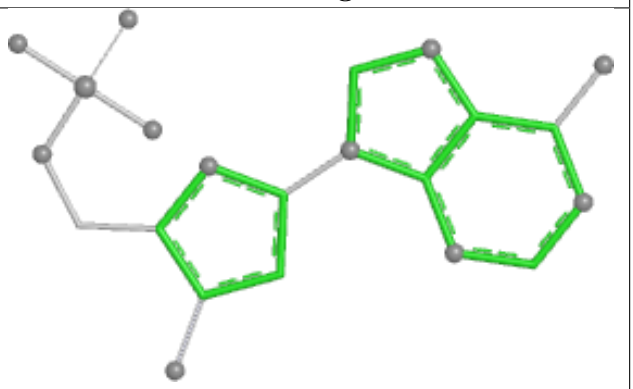
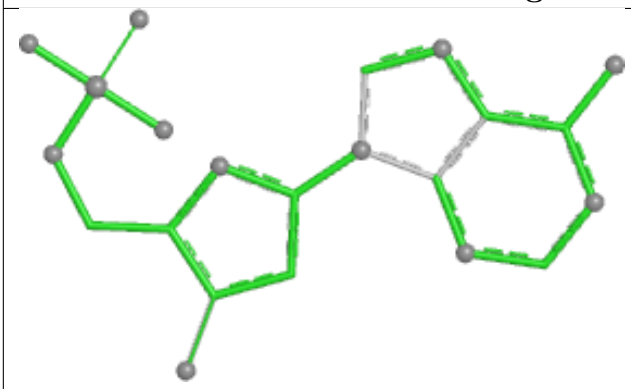


Rings

Ligand D5M 1 801



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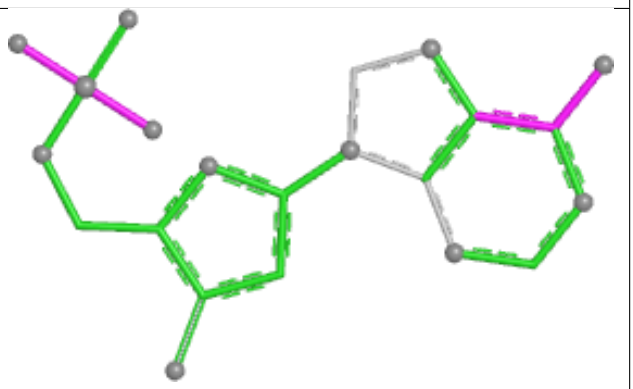

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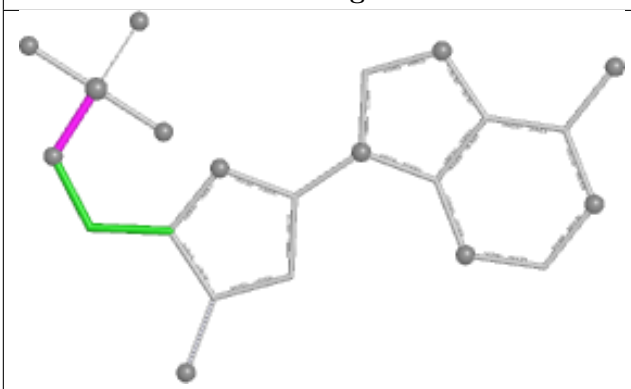
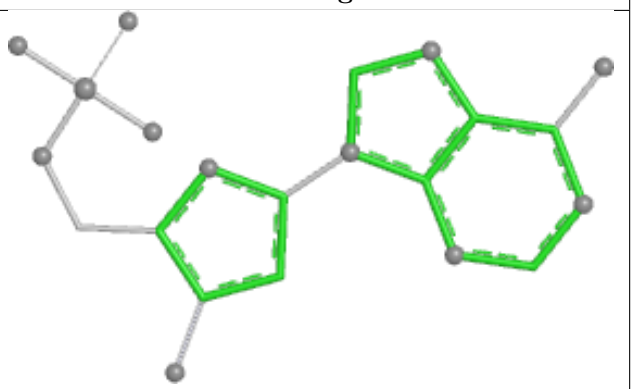


Torsions



Rings

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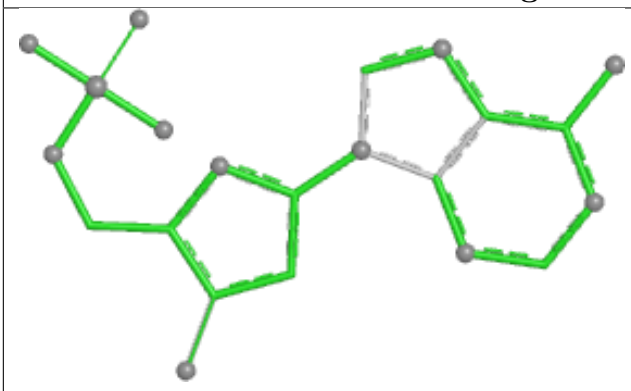

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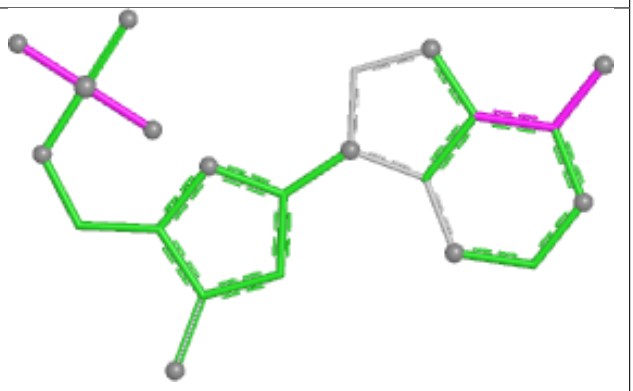

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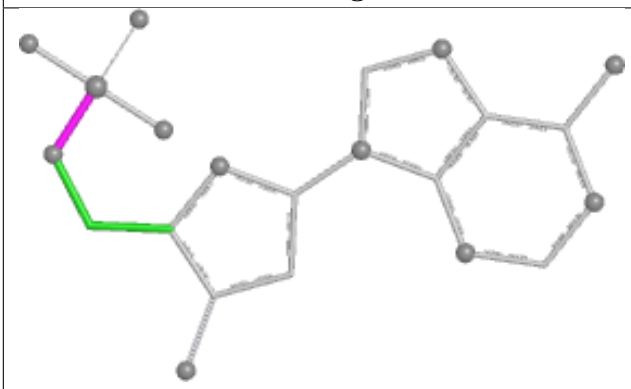

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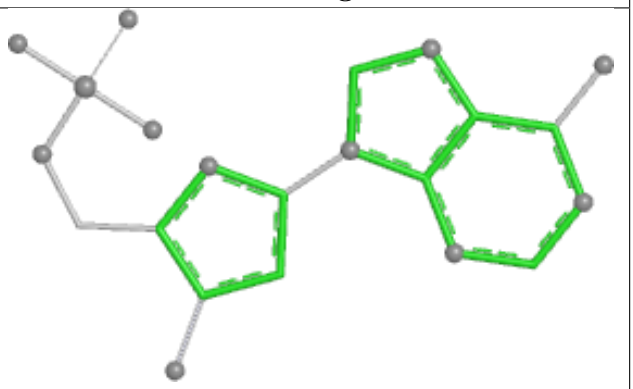

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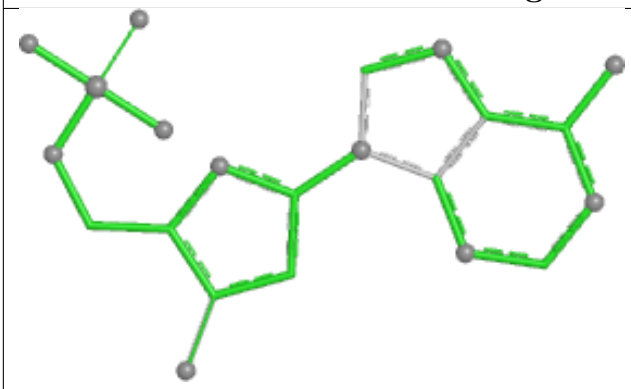

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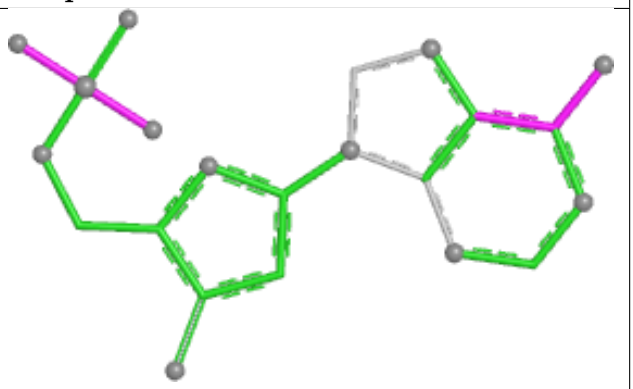

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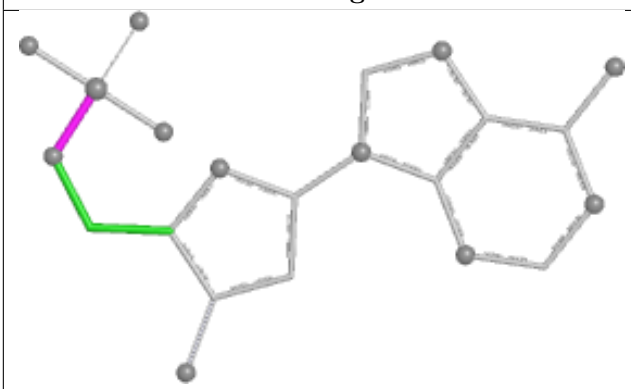

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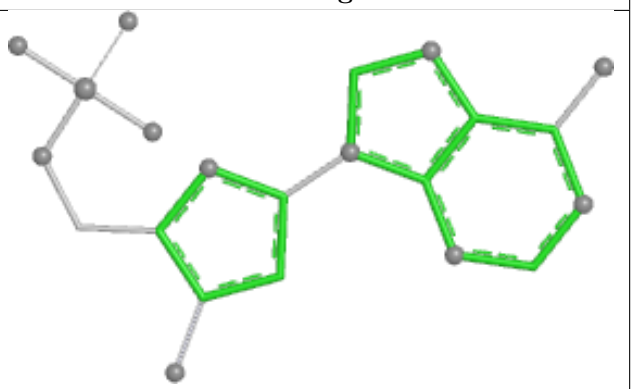

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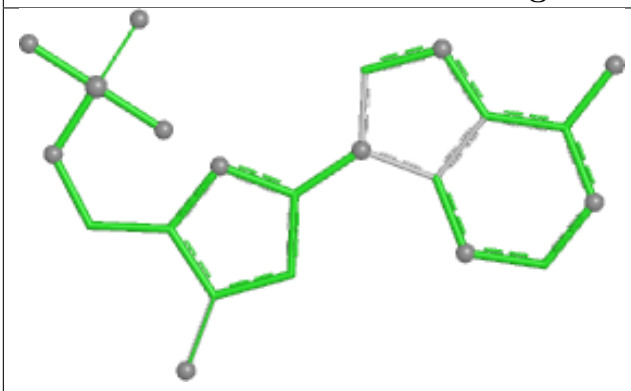

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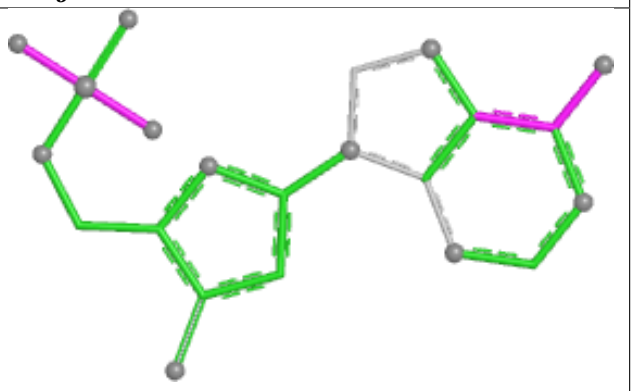

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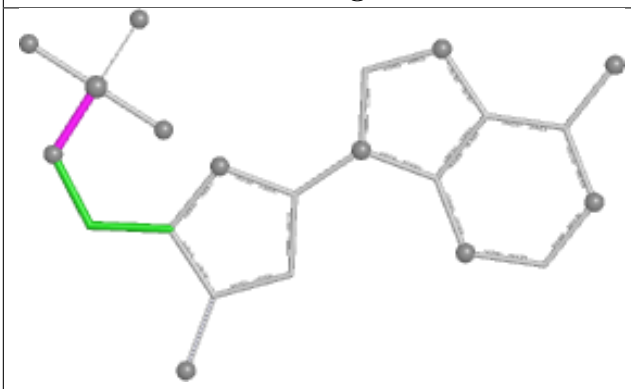

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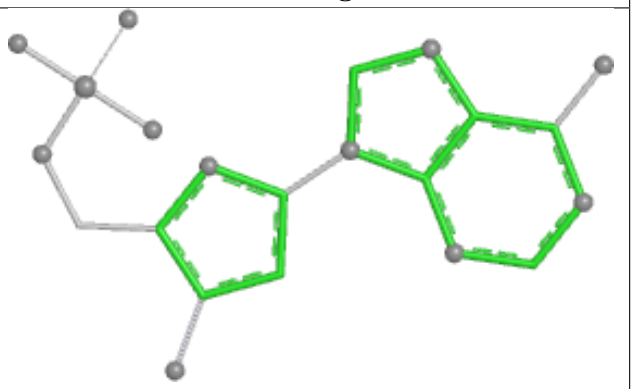

Rings

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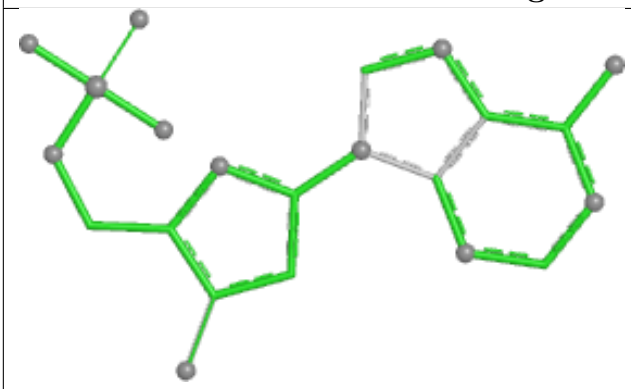

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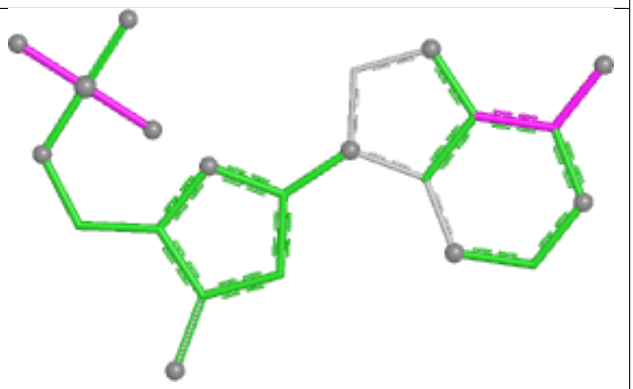

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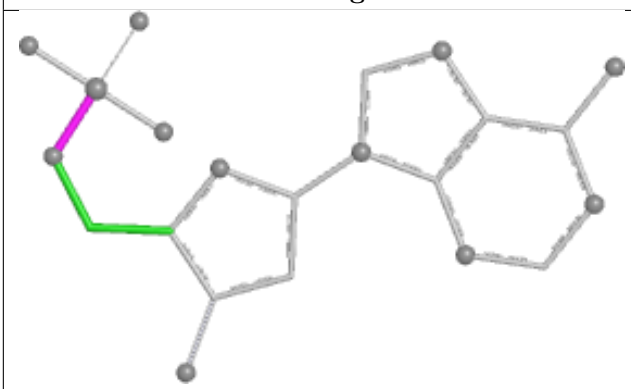

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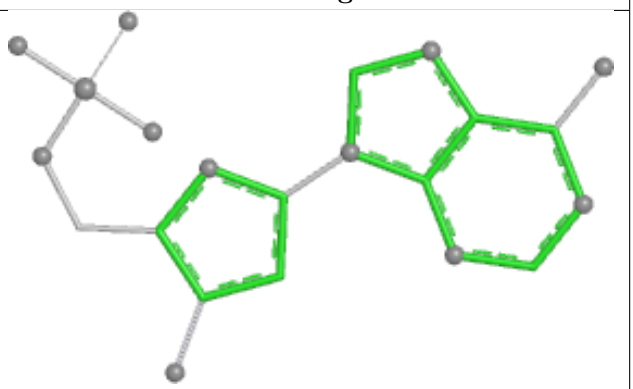

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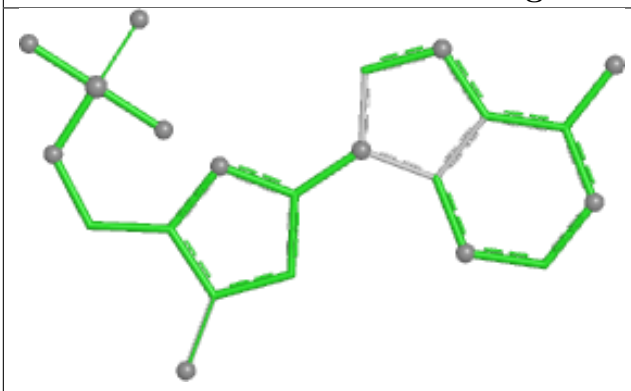

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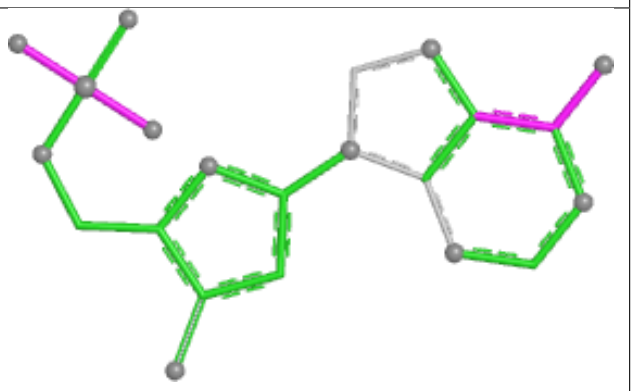

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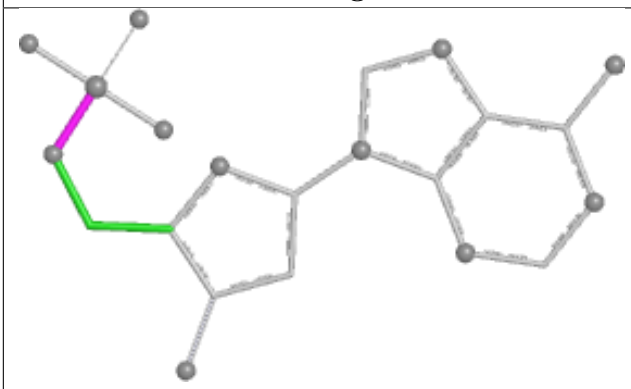

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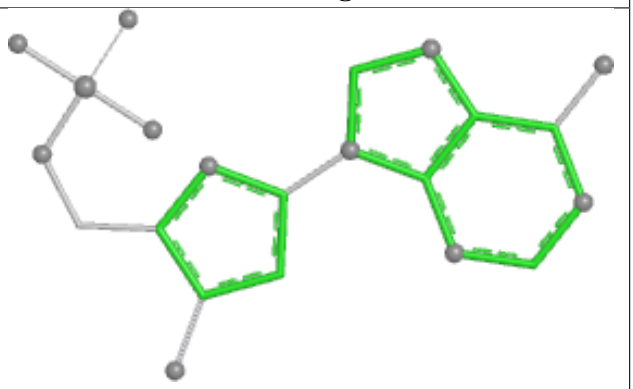

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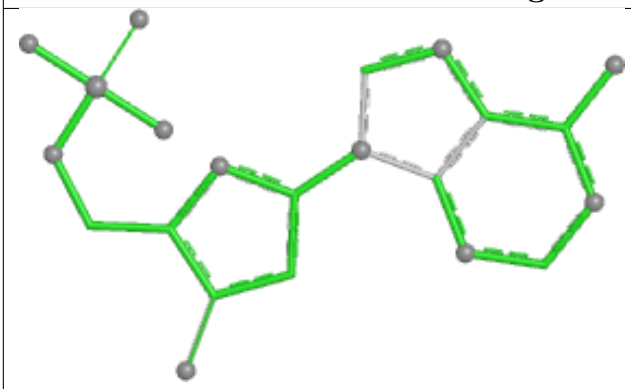

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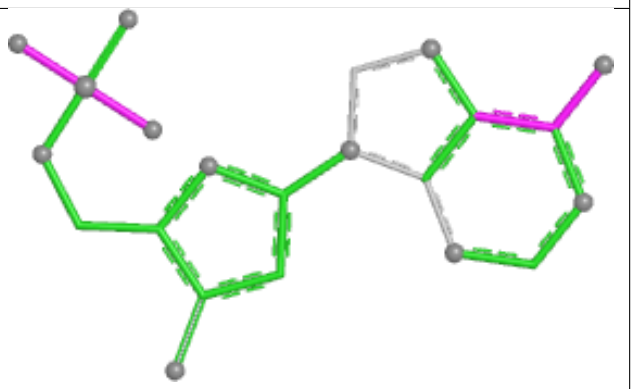

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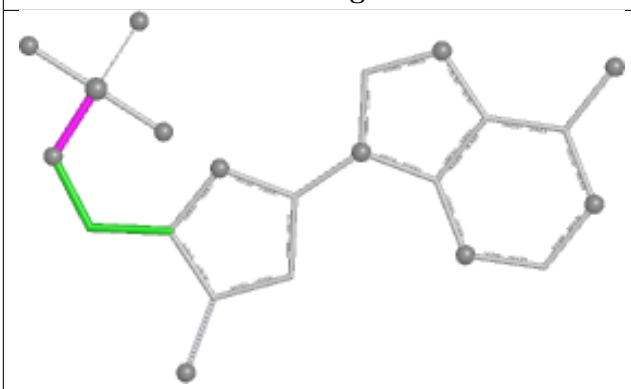

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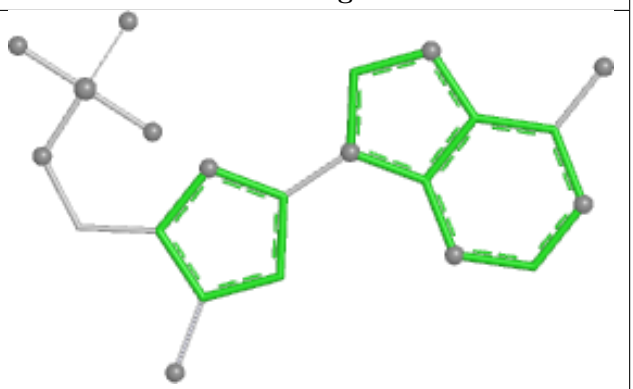

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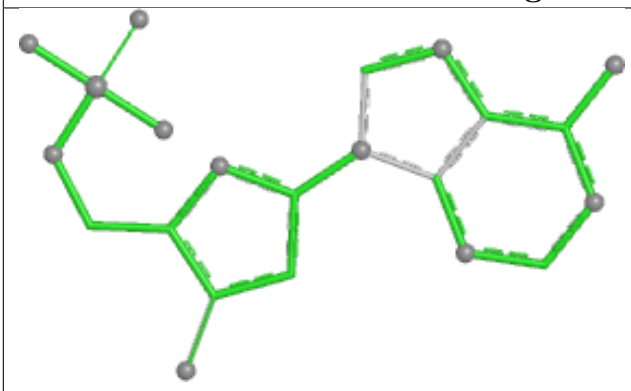

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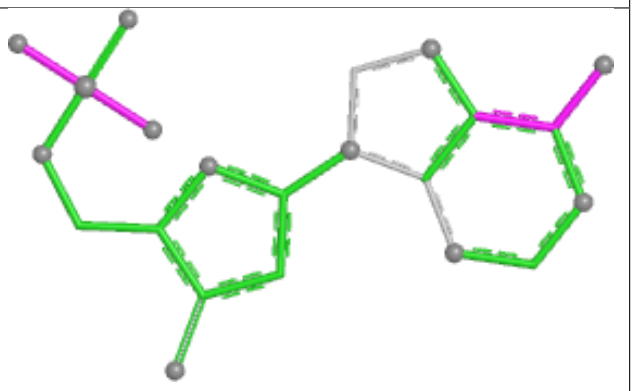

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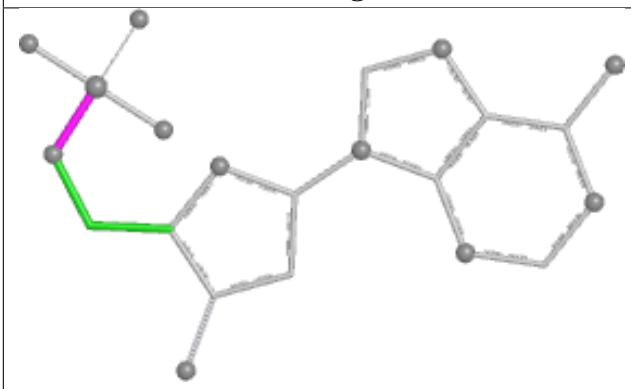

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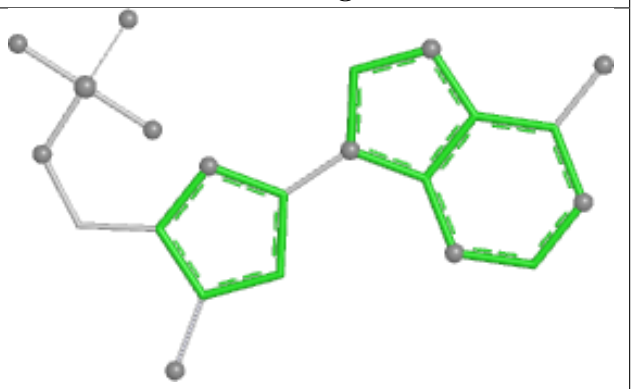

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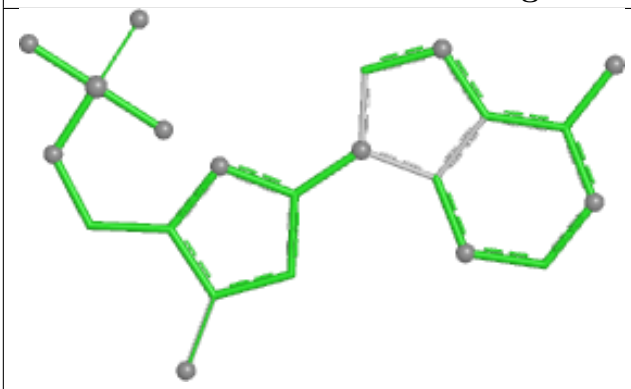

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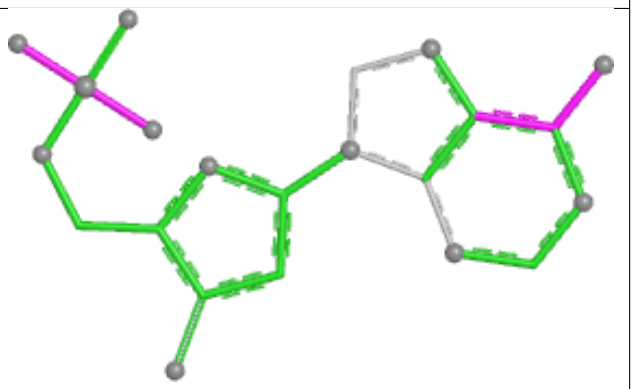

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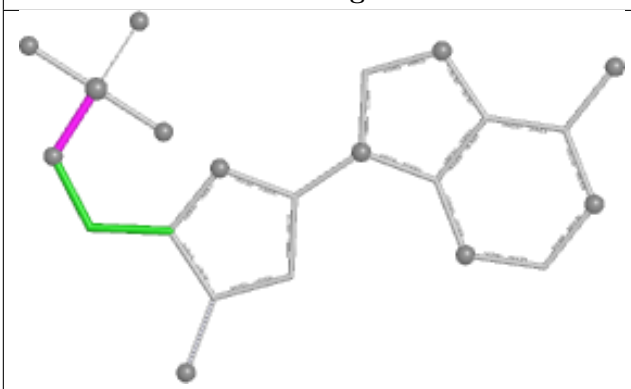

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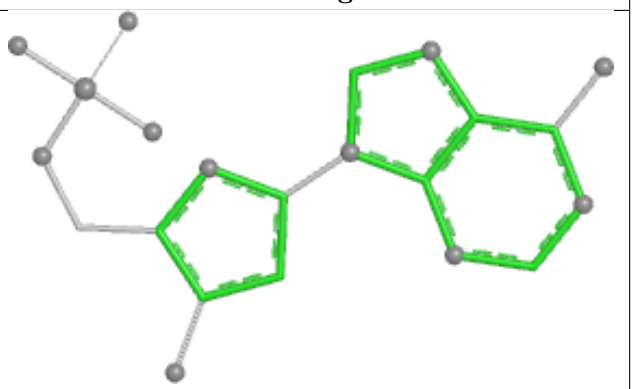

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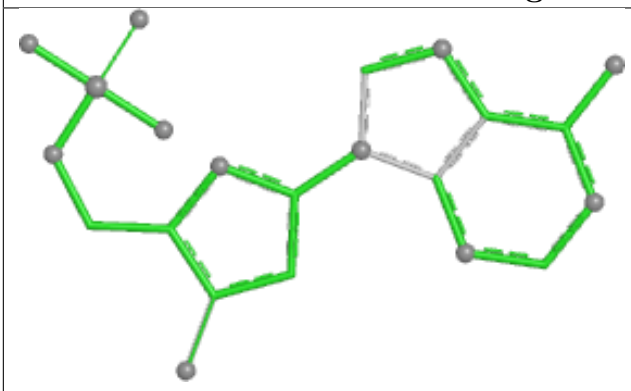

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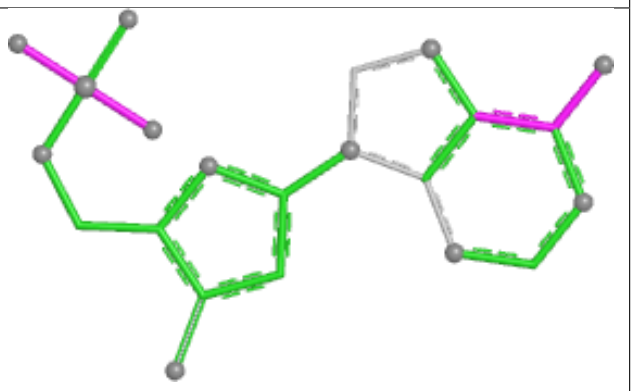

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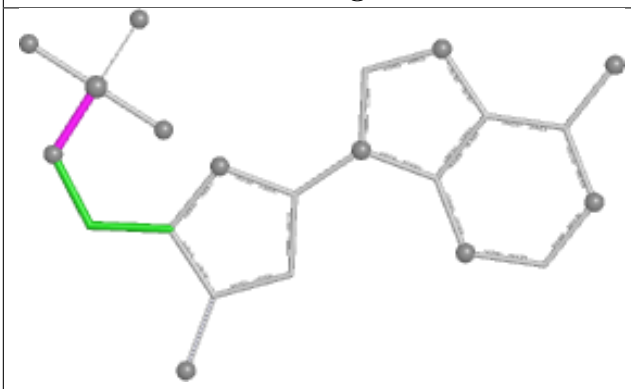

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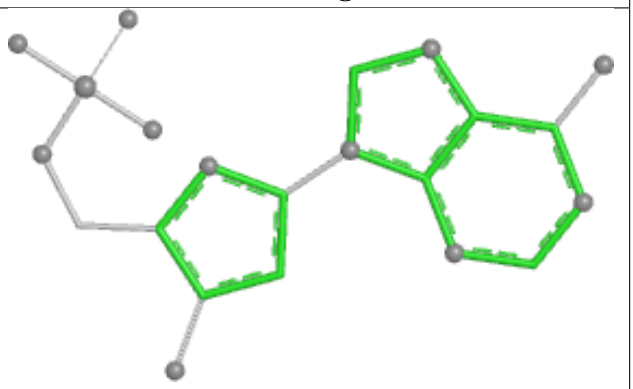

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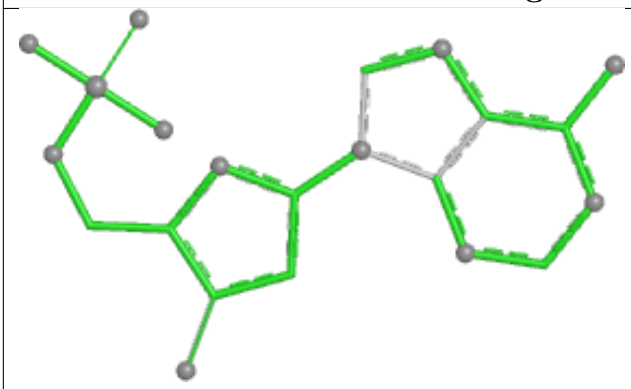

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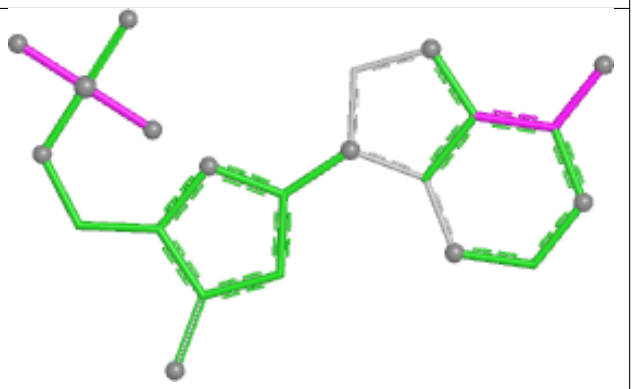

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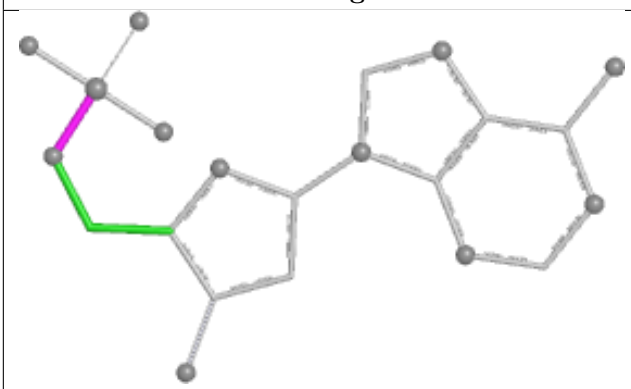

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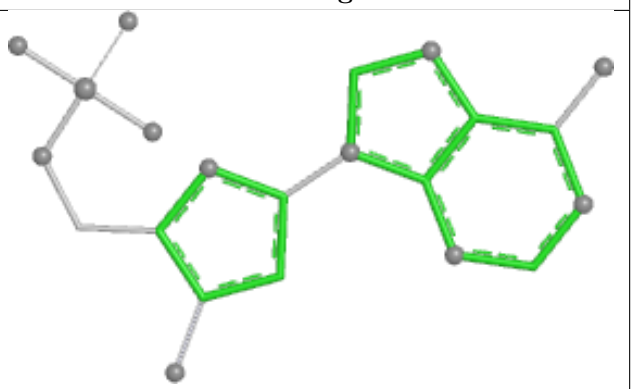

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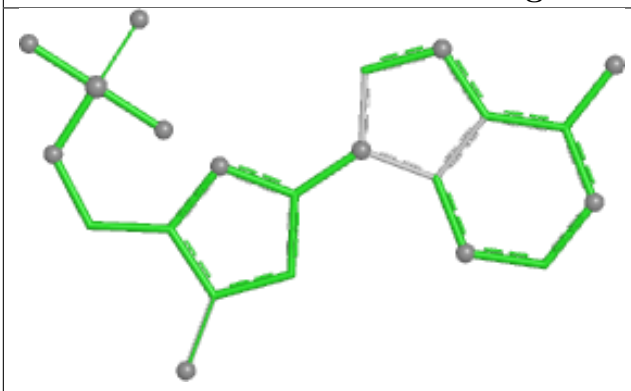

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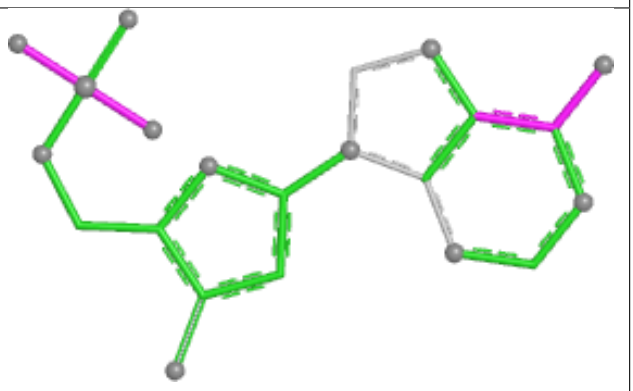

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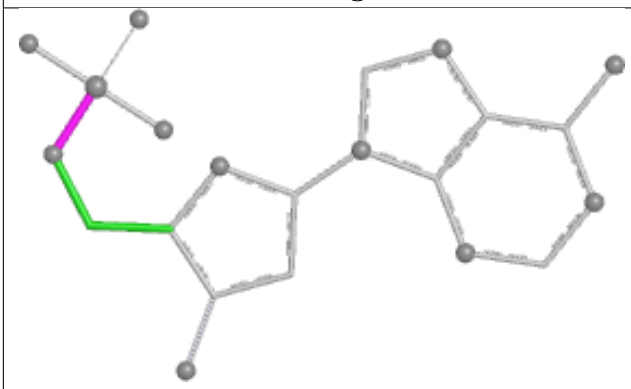

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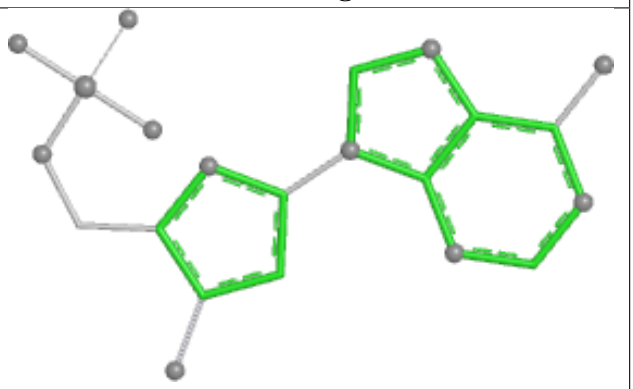

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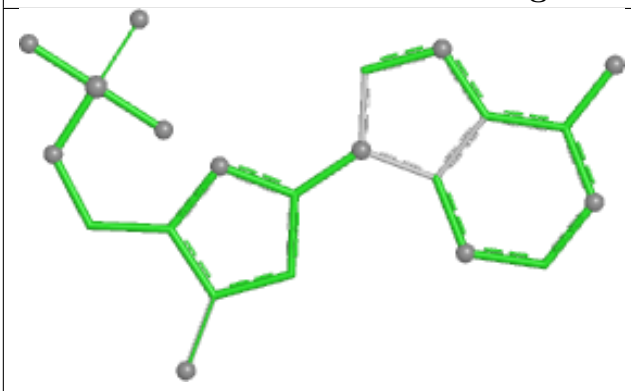

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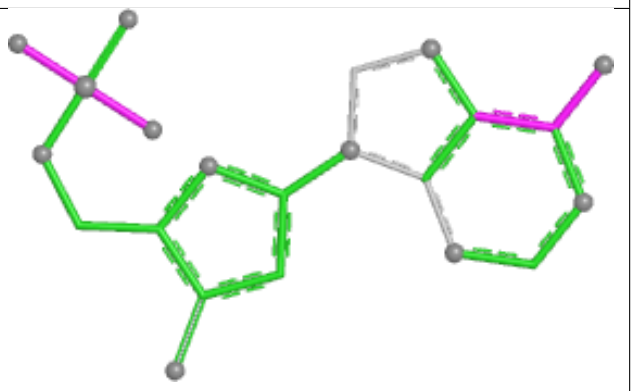

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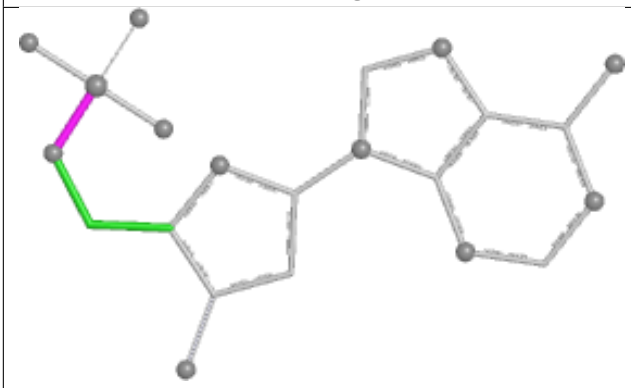

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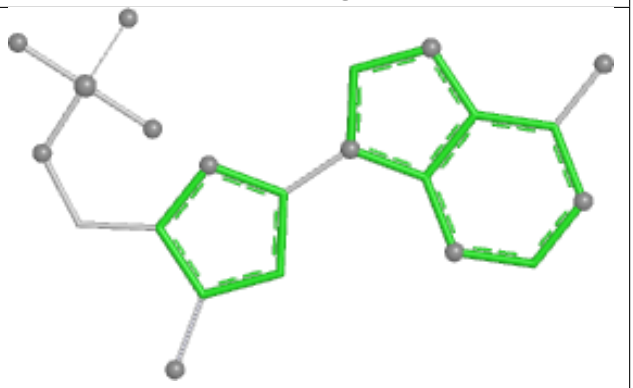

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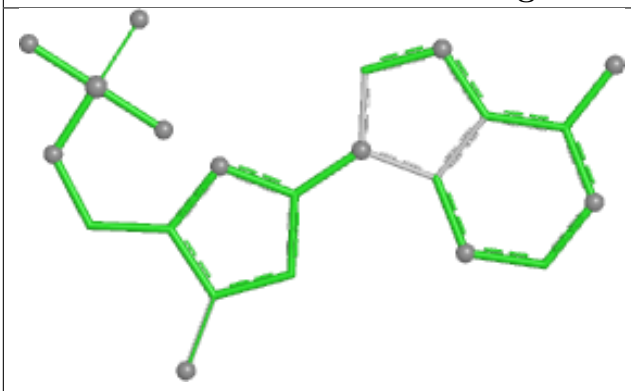

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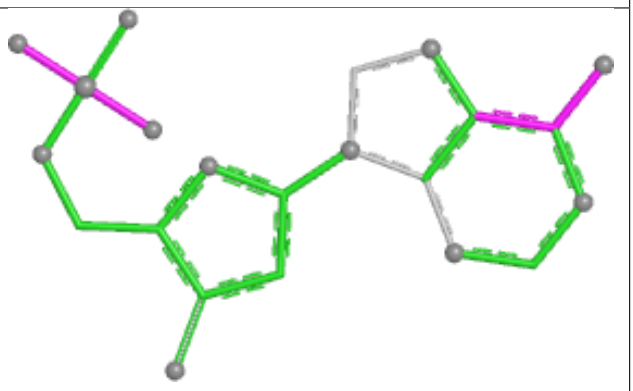

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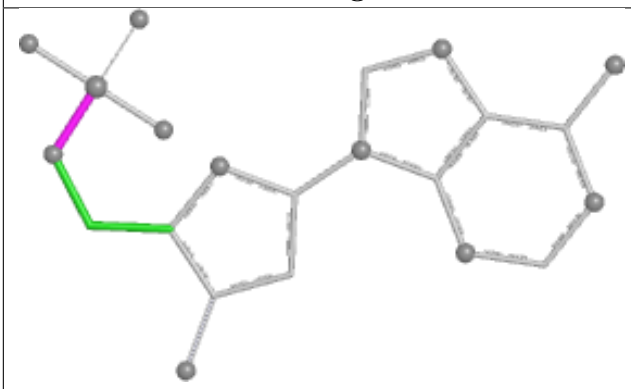

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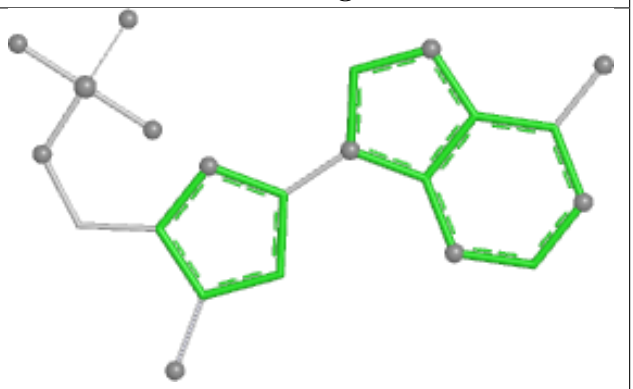

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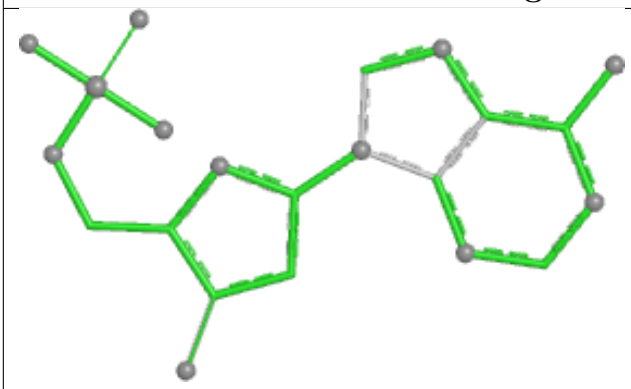

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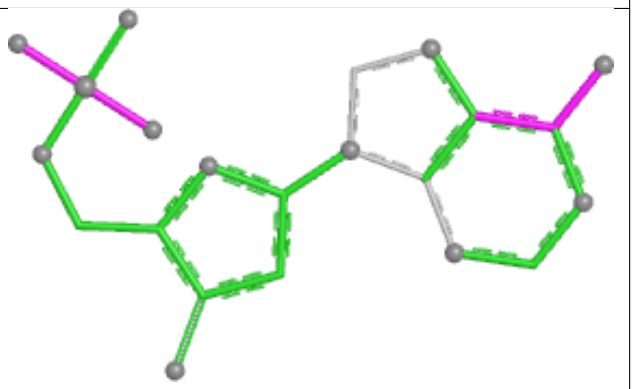

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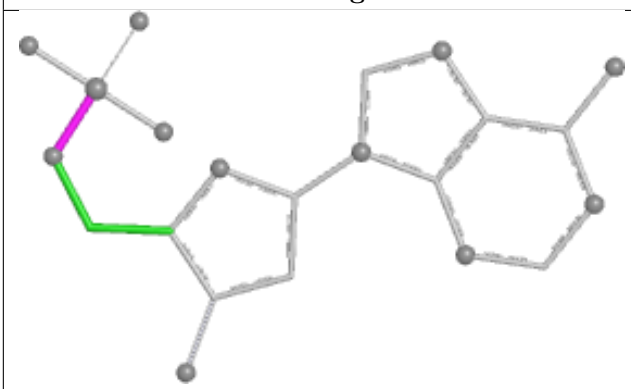

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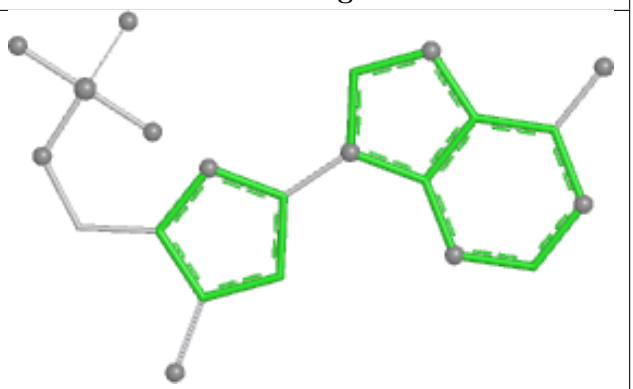

Rings

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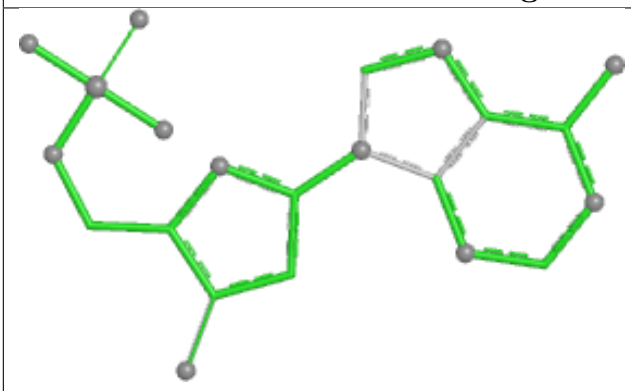

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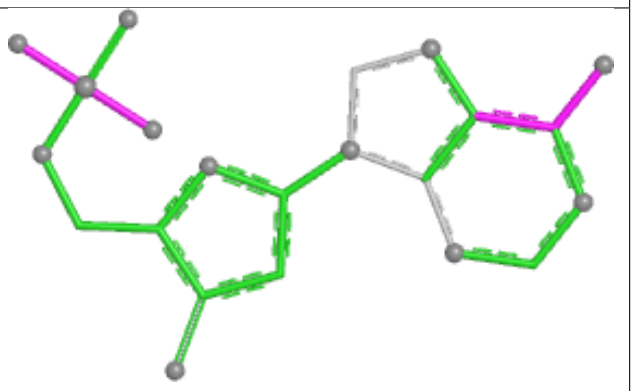

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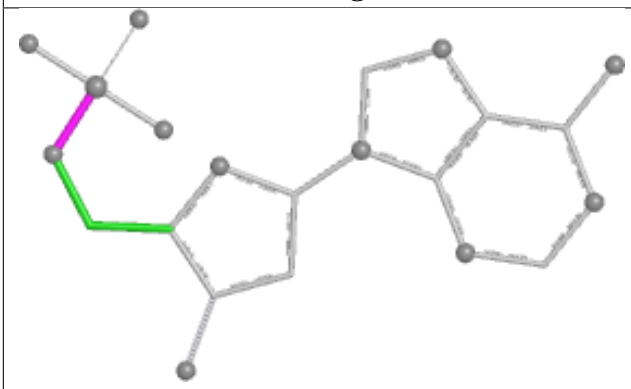

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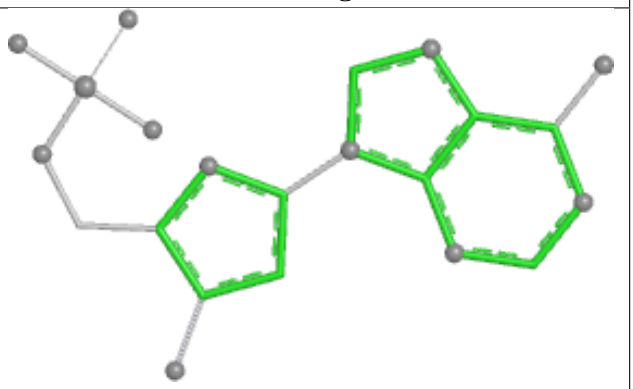

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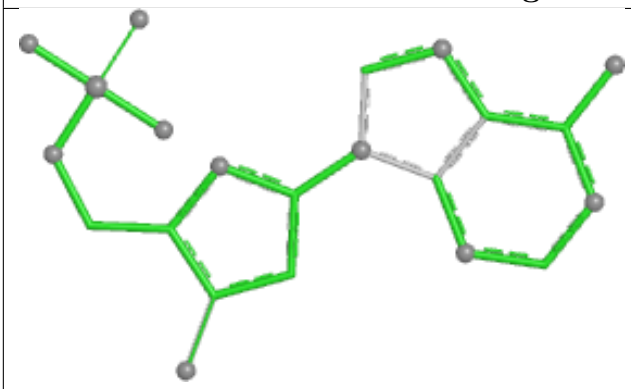

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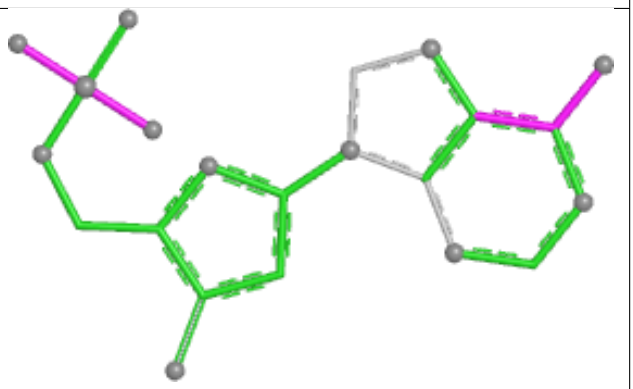

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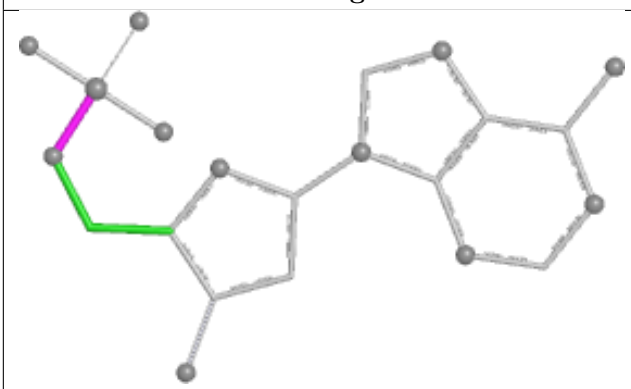

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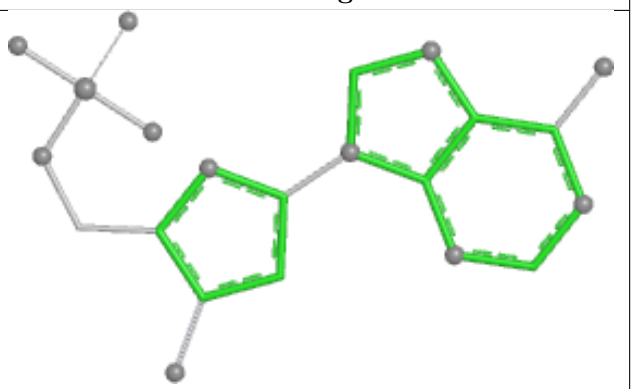

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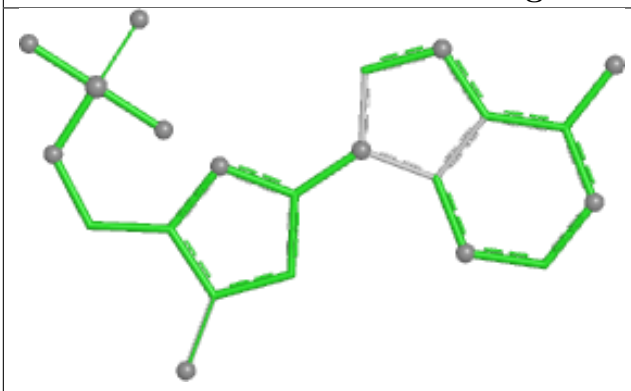

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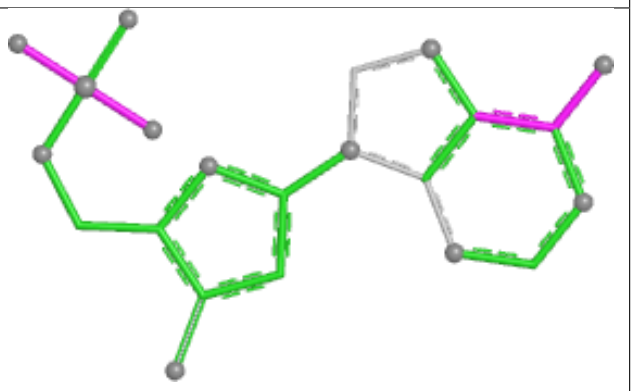

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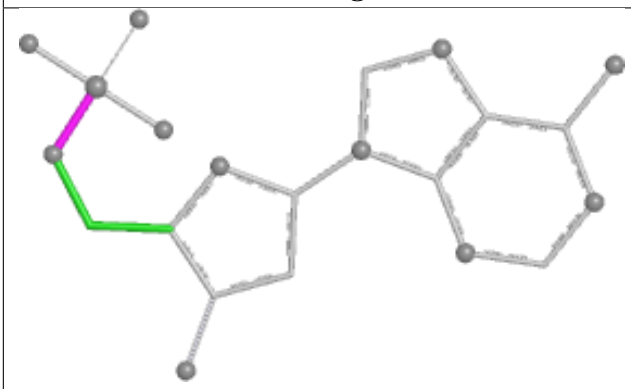

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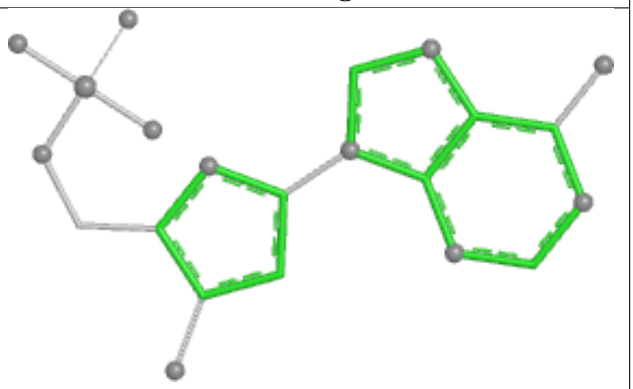

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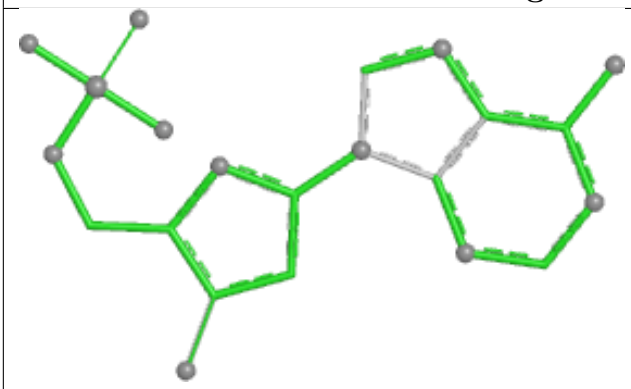

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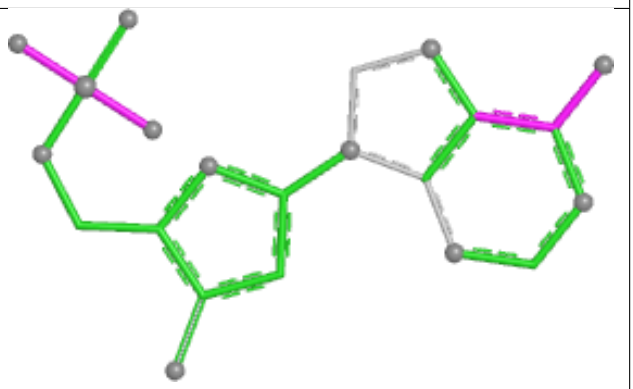

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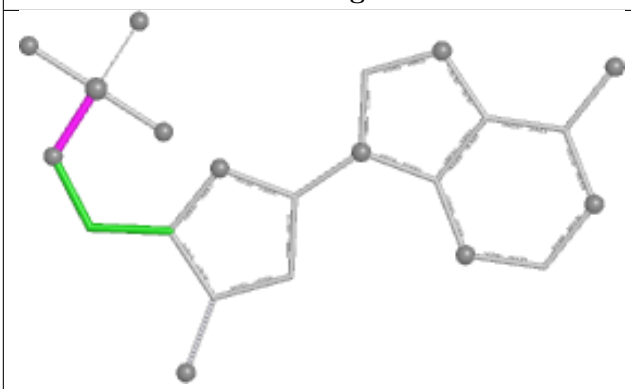

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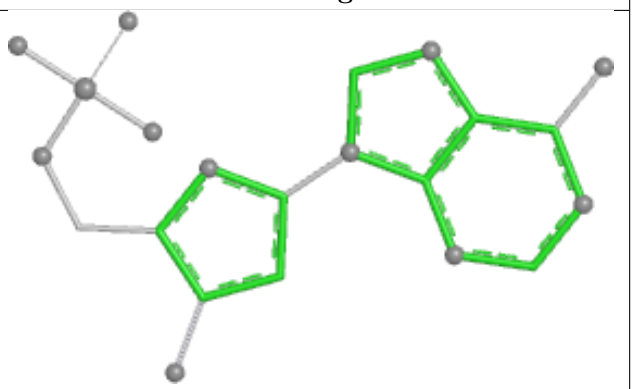

Rings

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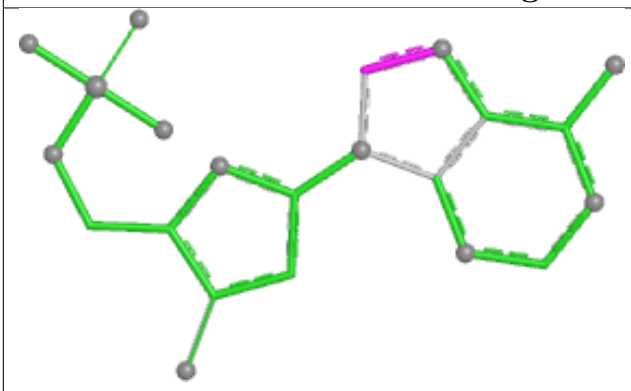

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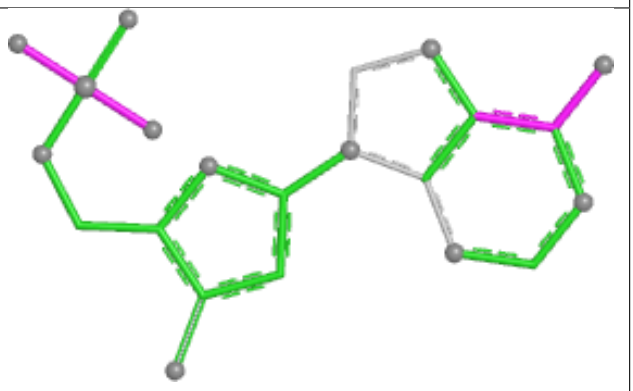

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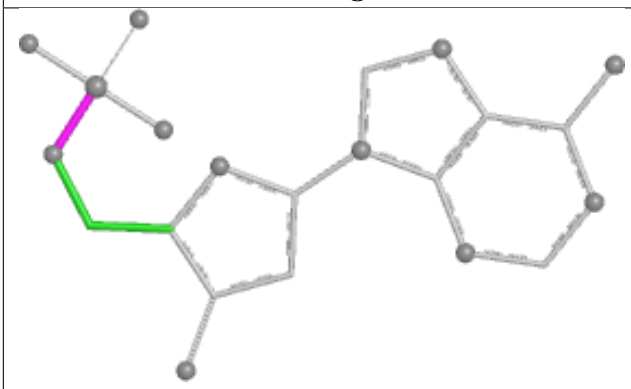

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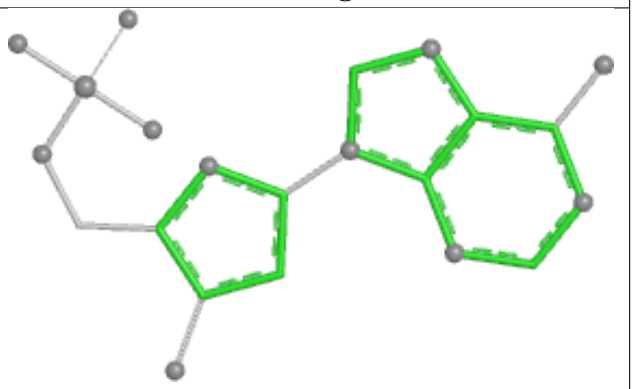

Rings

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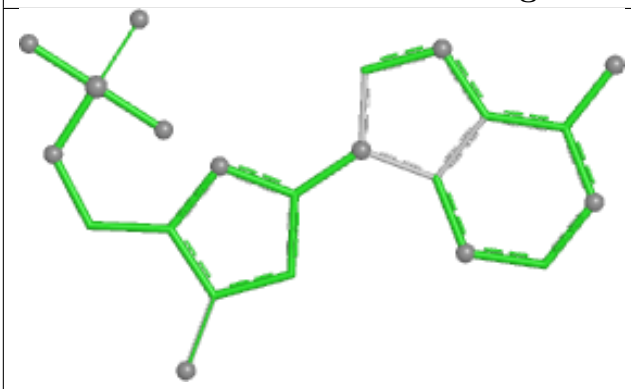

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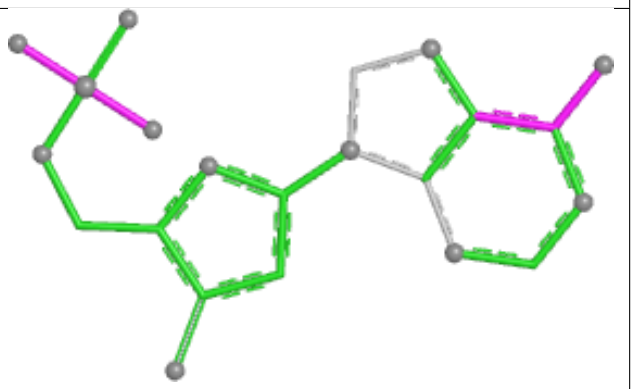

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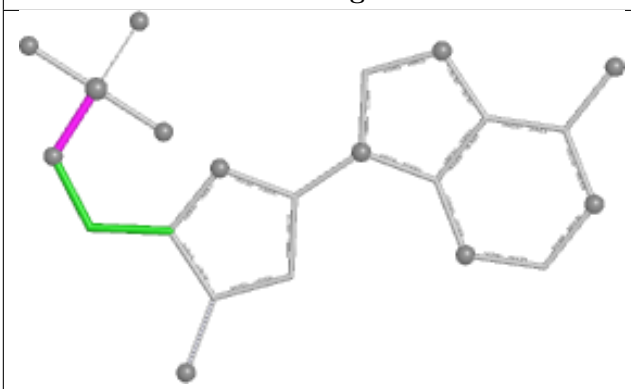

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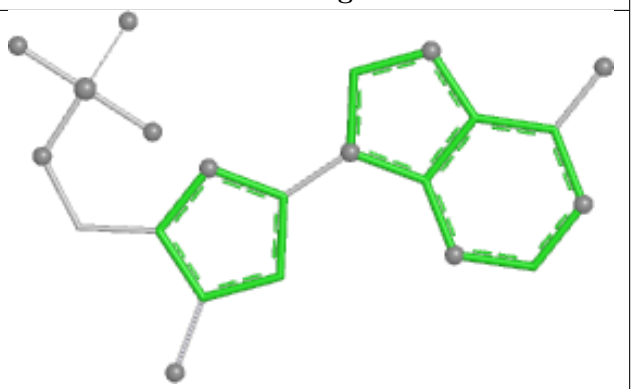

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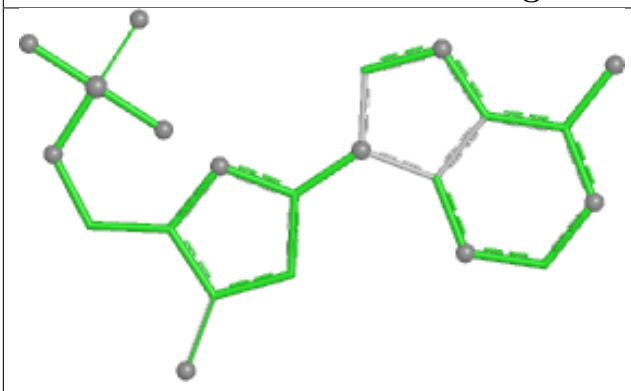

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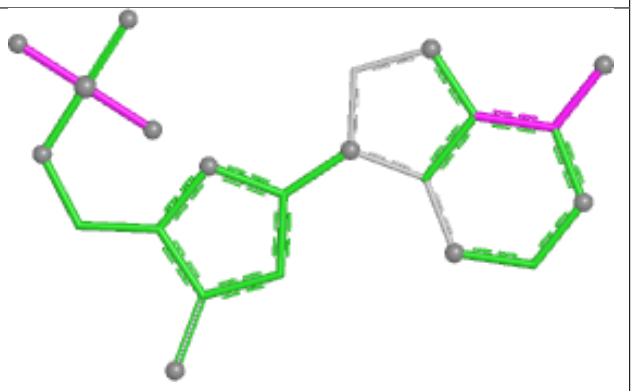

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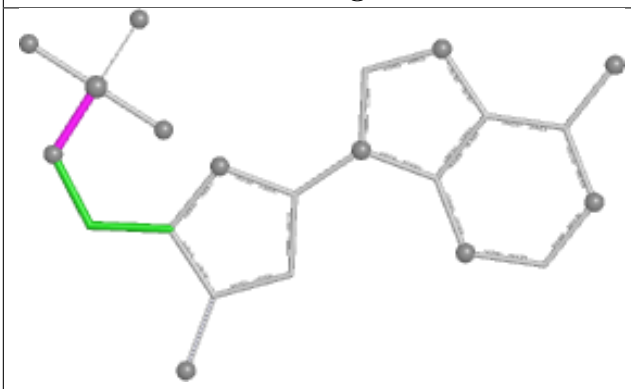

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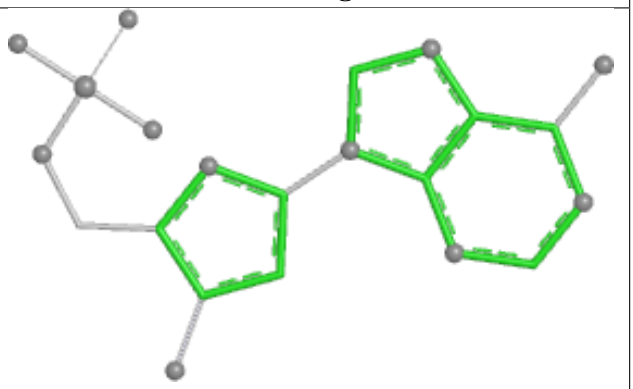

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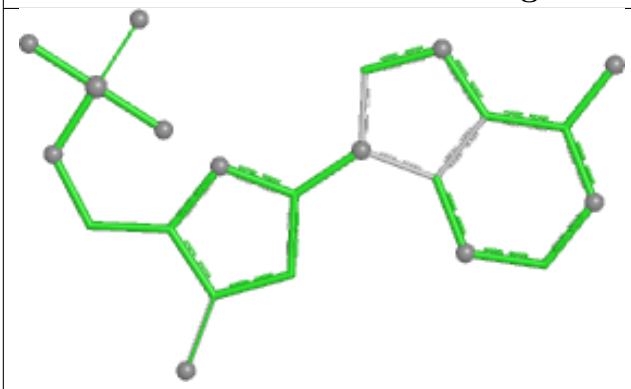

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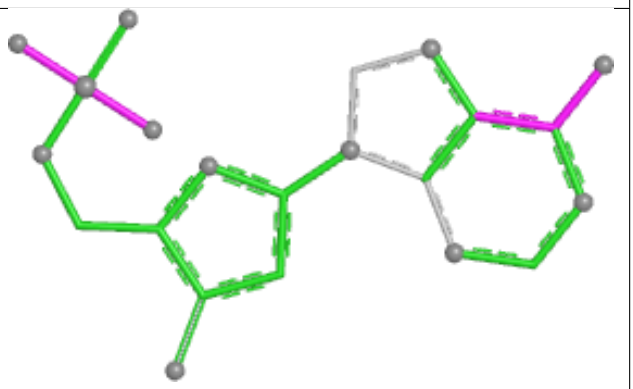

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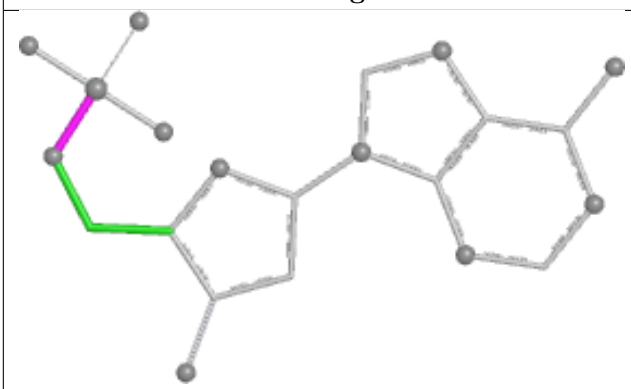

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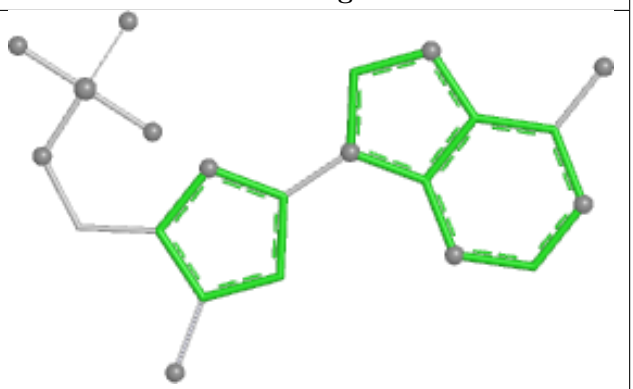

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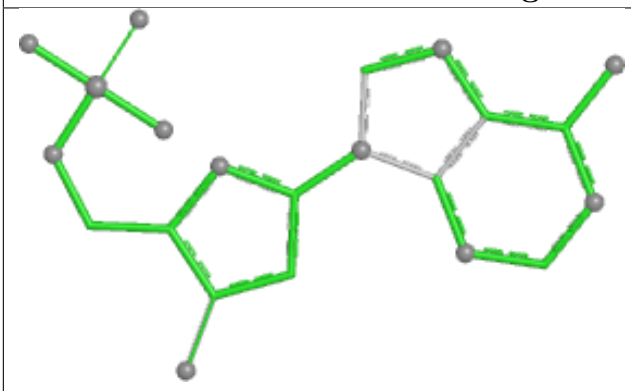

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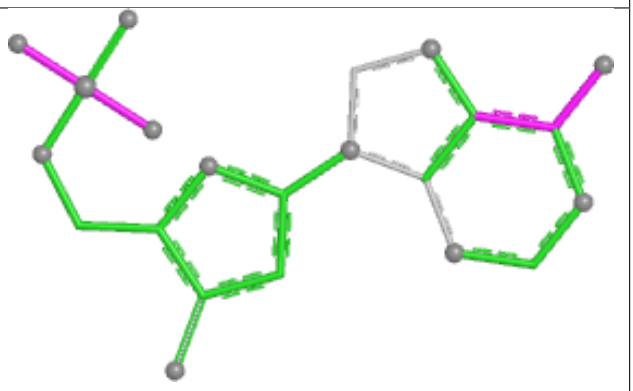

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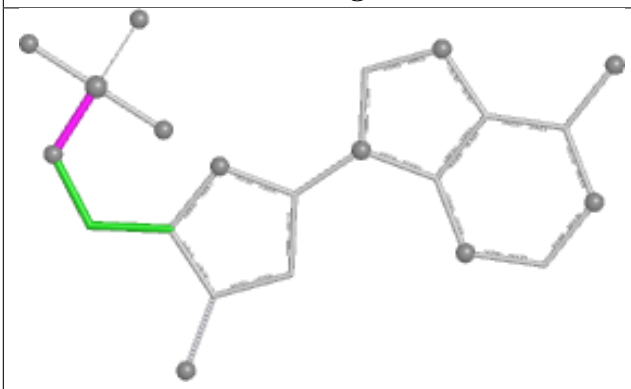

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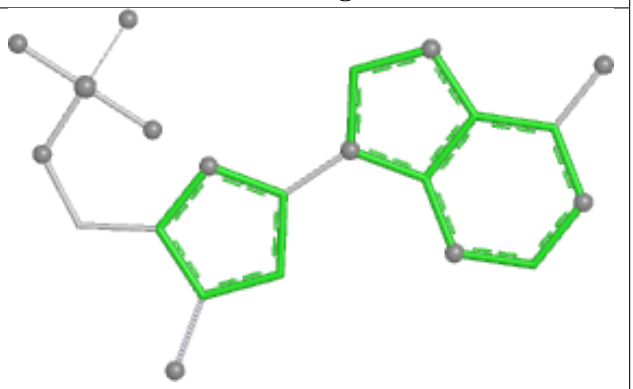

Rings

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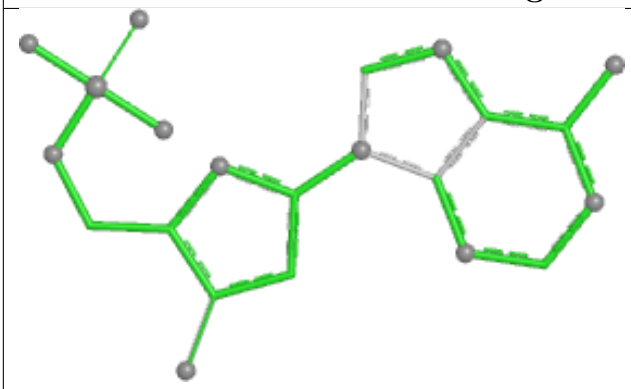

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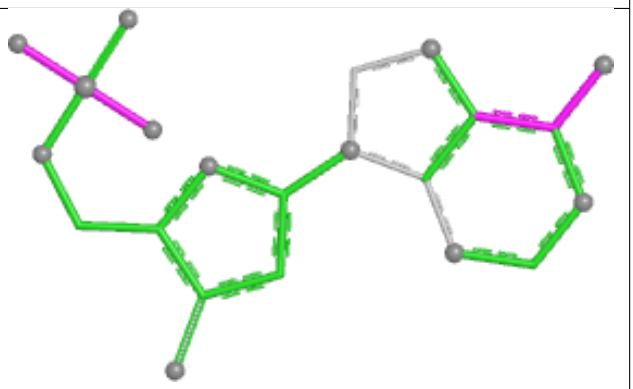

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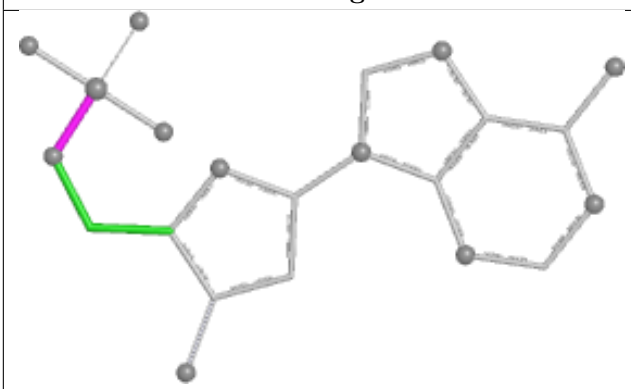

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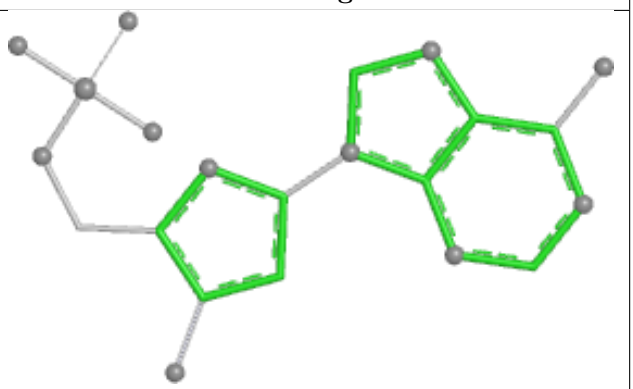

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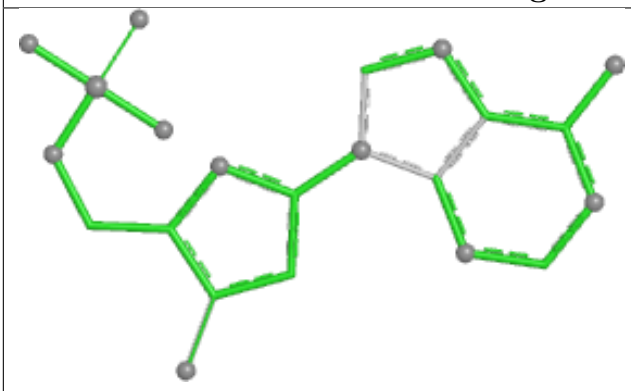

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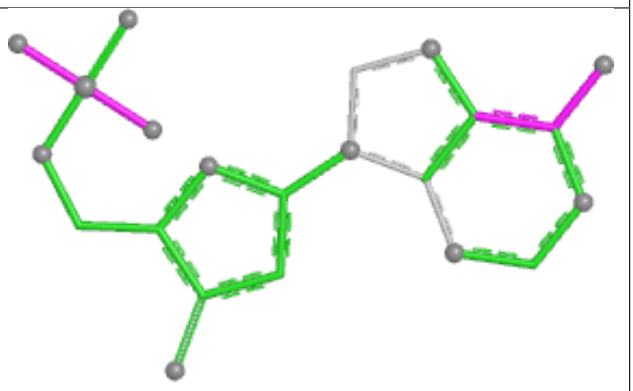

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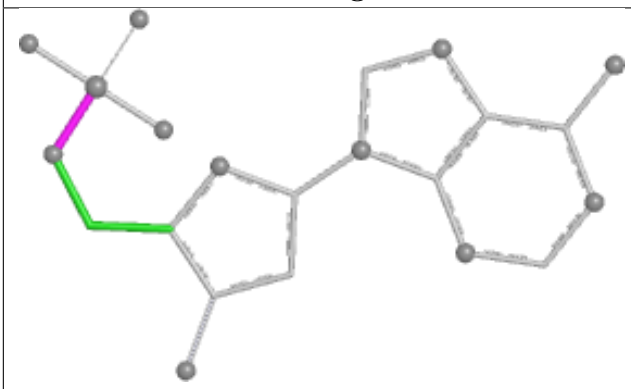

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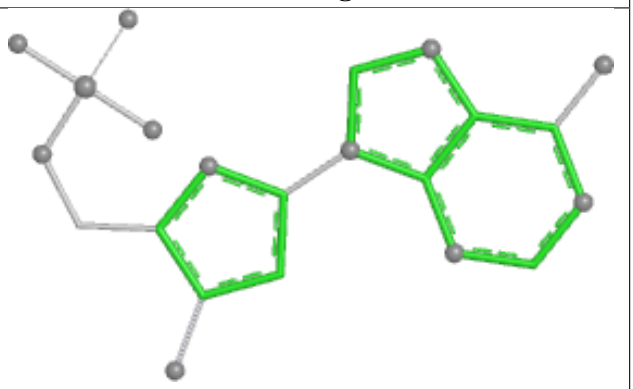

Rings

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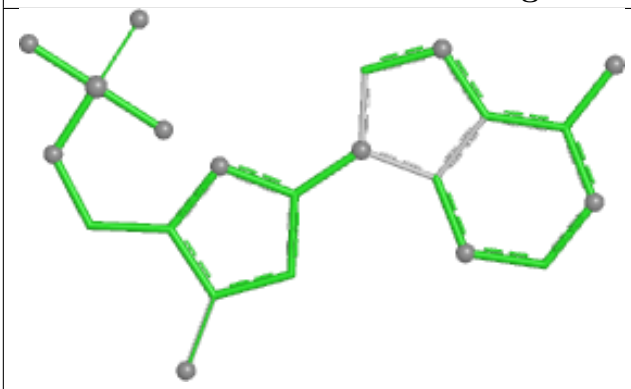

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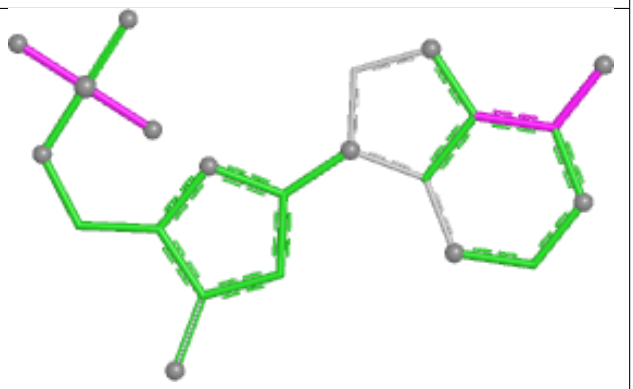

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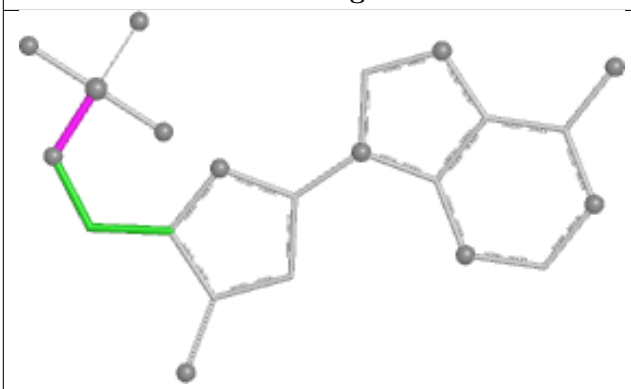

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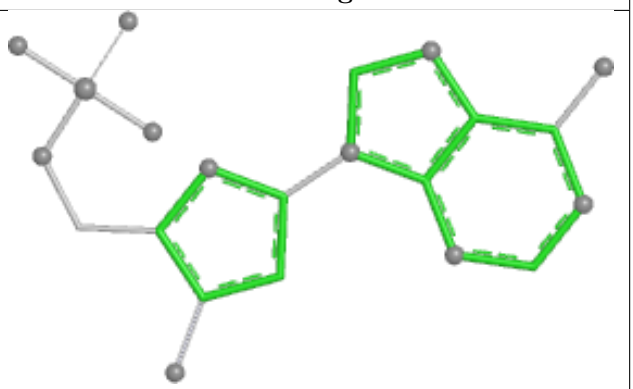
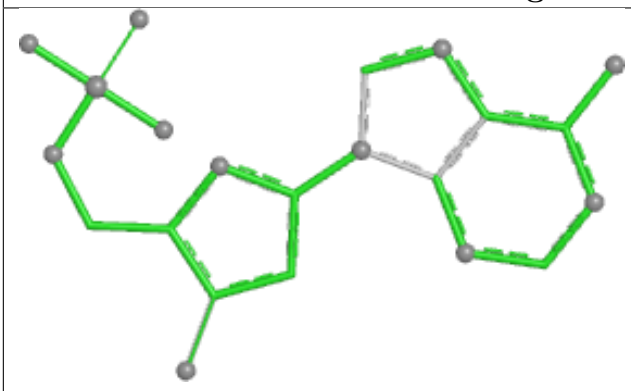


Rings

Ligand D5M z 801



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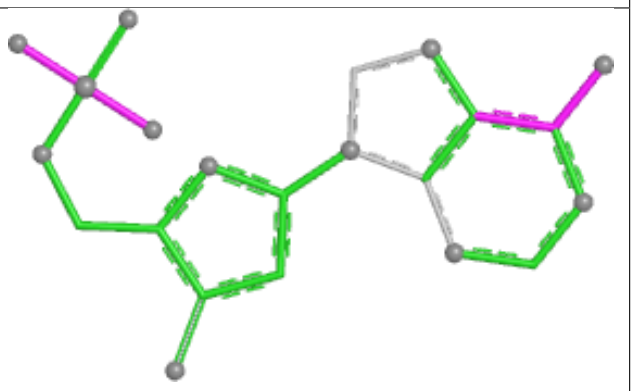

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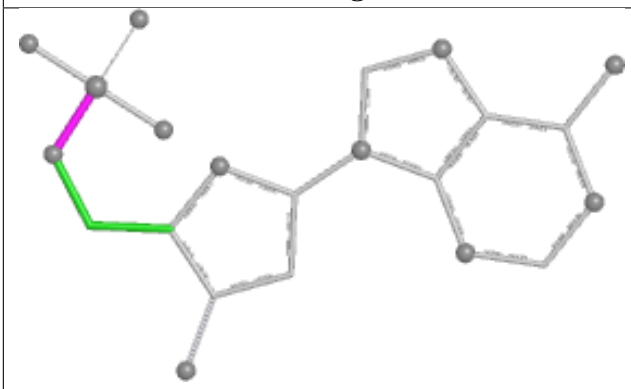
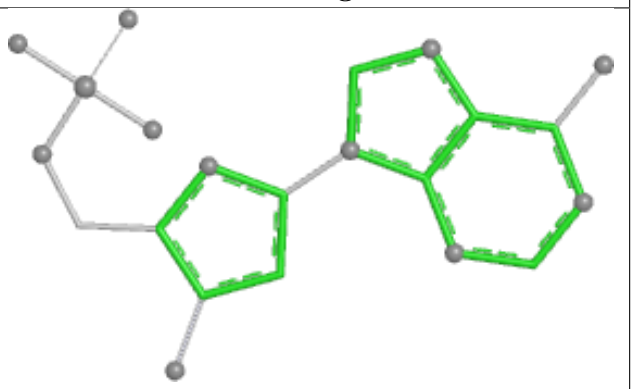
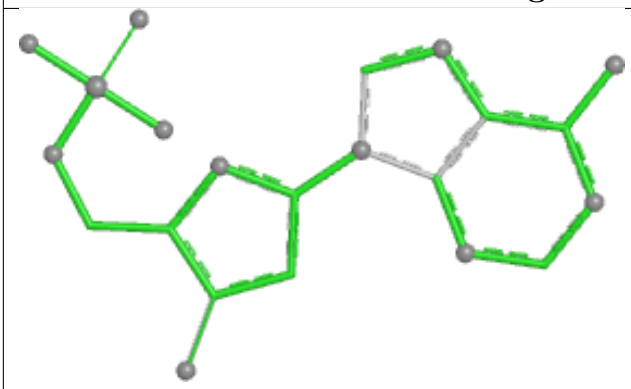


Torsions



Rings

Ligand D5M I 801



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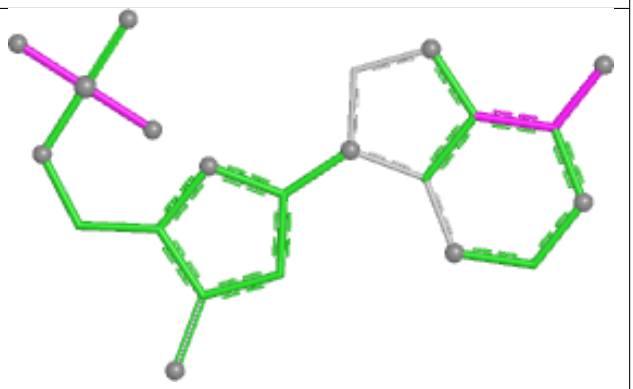
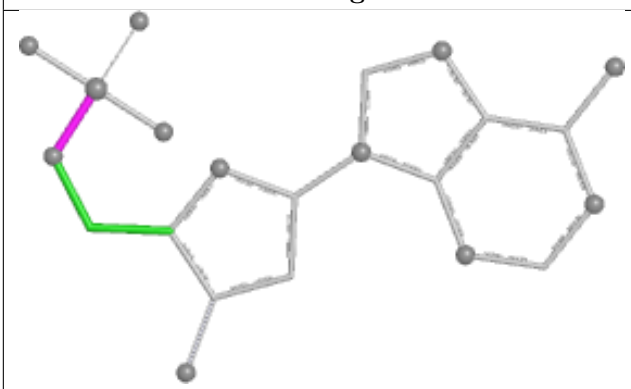


Bond angles



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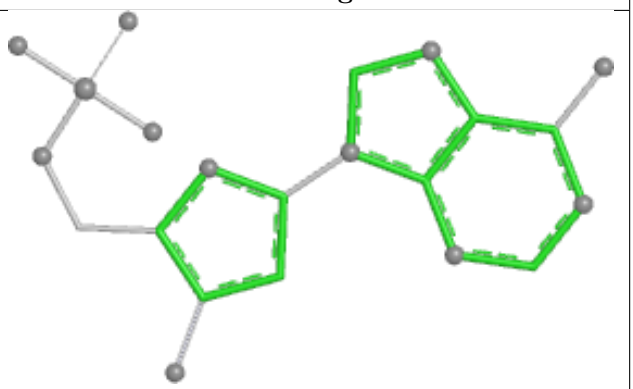
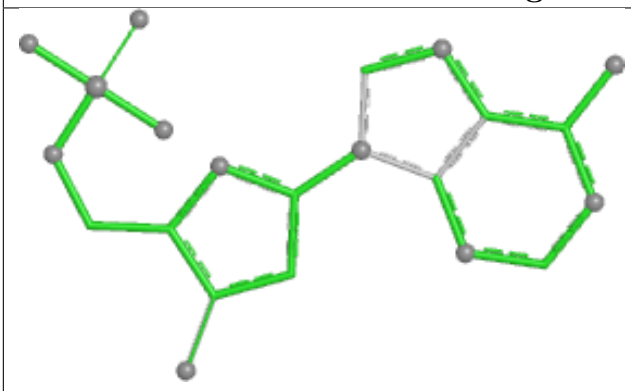


Rings

Ligand D5M 7 801



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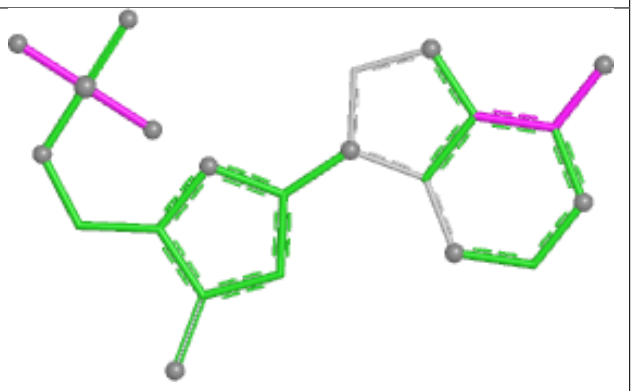

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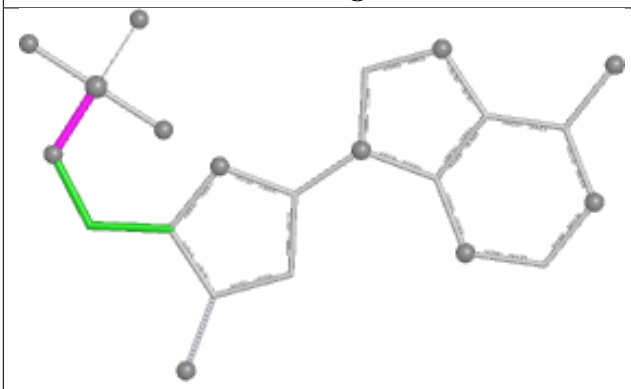

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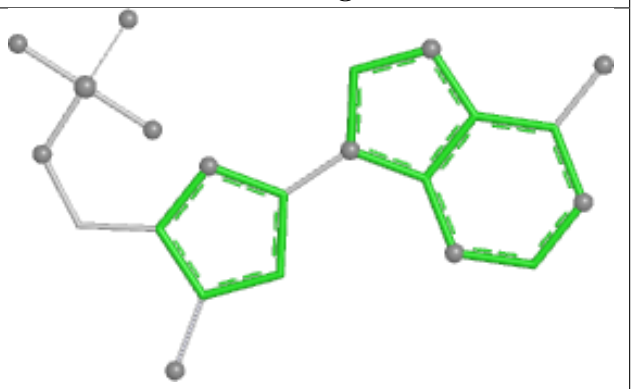
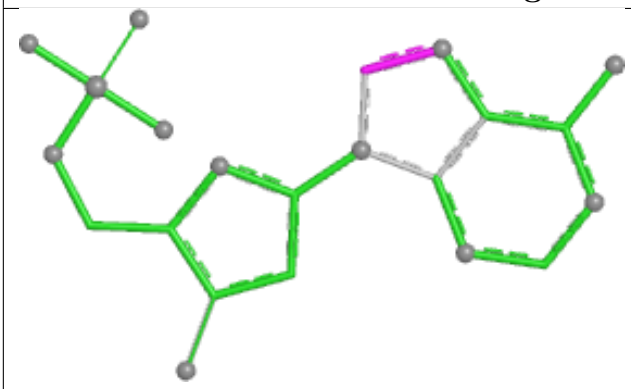


Rings

Ligand D5M L 801



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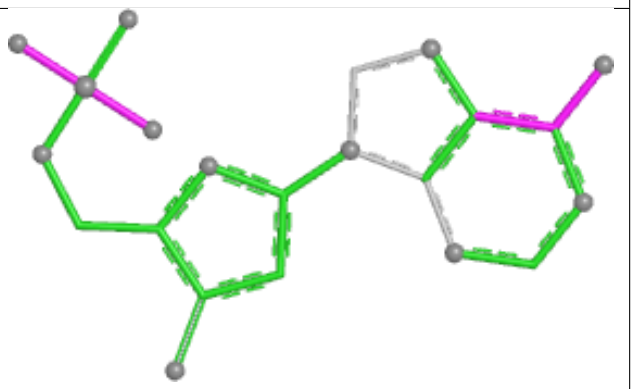

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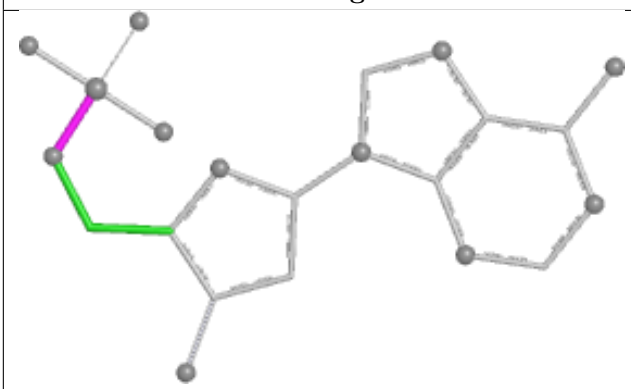

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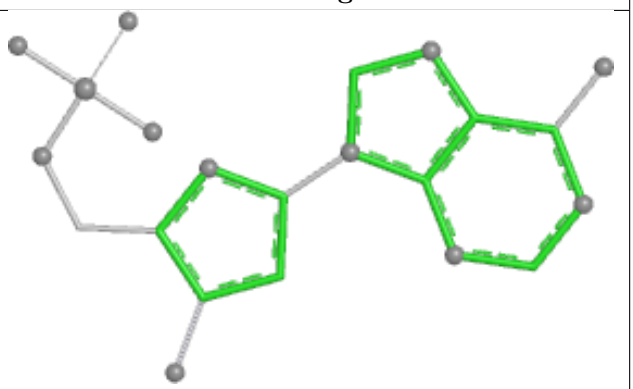
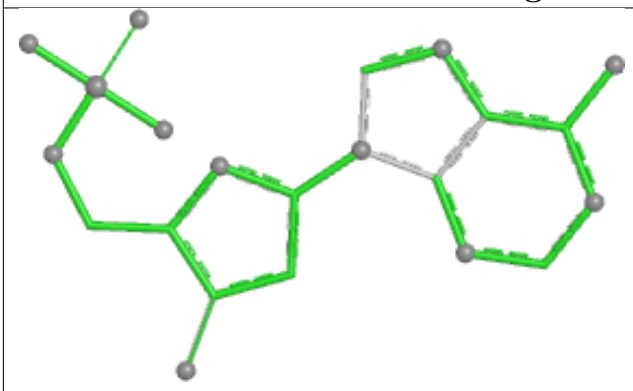


Rings

Ligand D5M p 801



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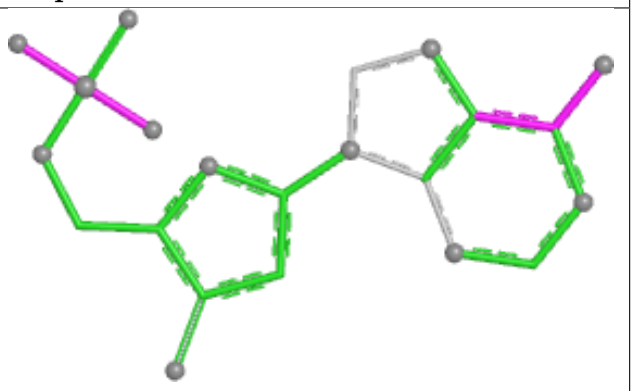
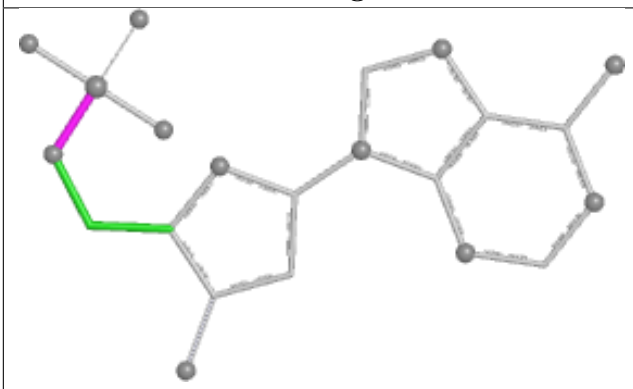


Bond angles



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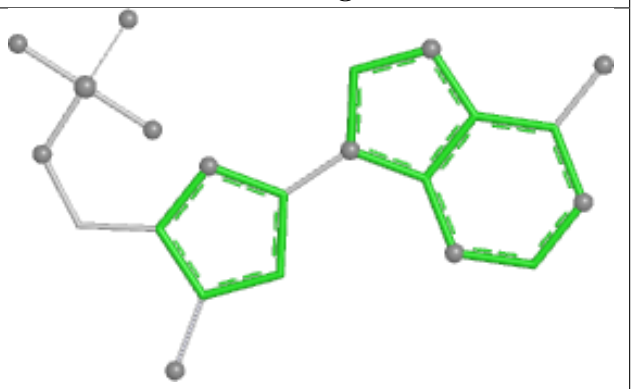
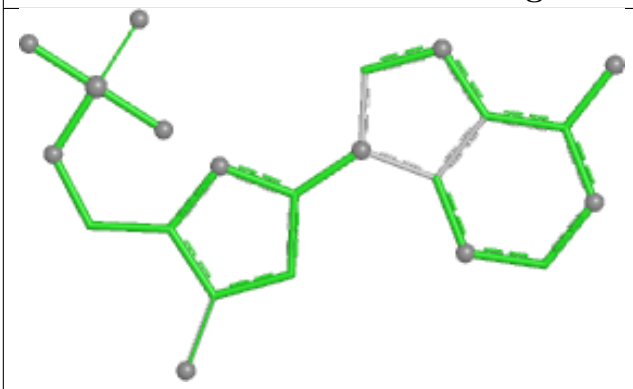


Rings

Ligand D5M 2 801



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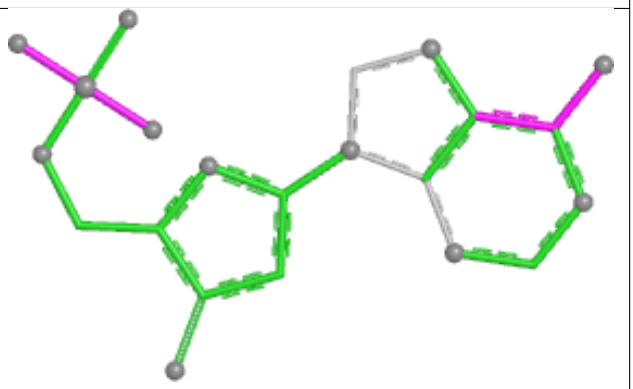
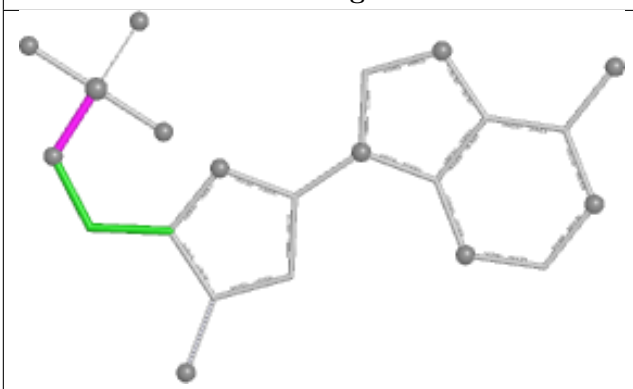


Bond angles



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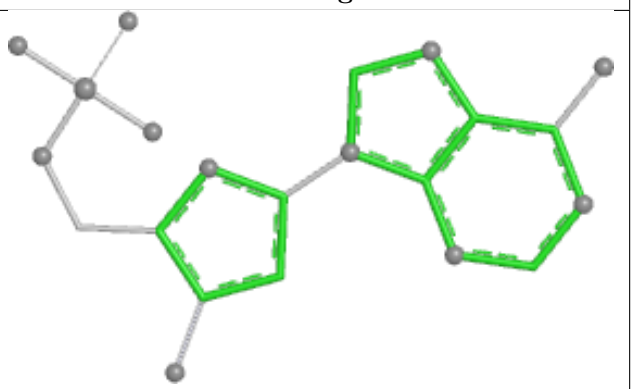
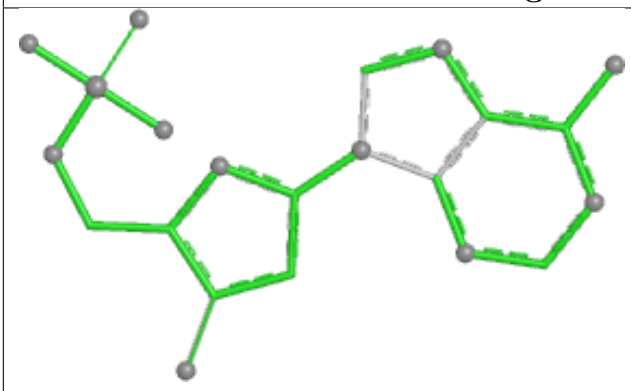


Rings

Ligand D5M x 801



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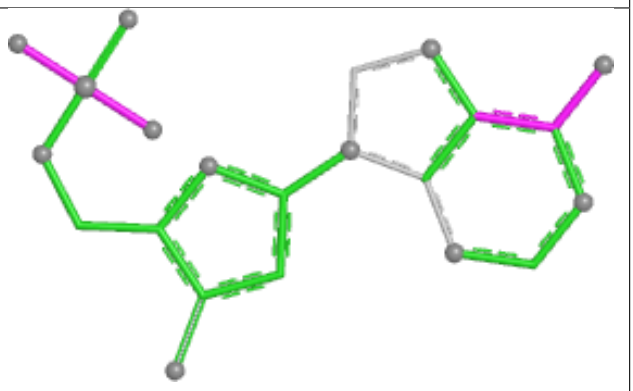

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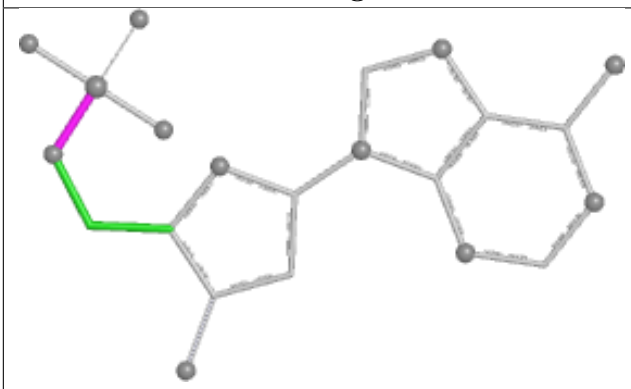

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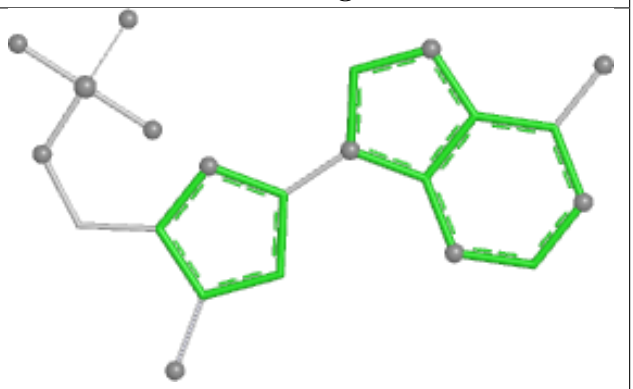
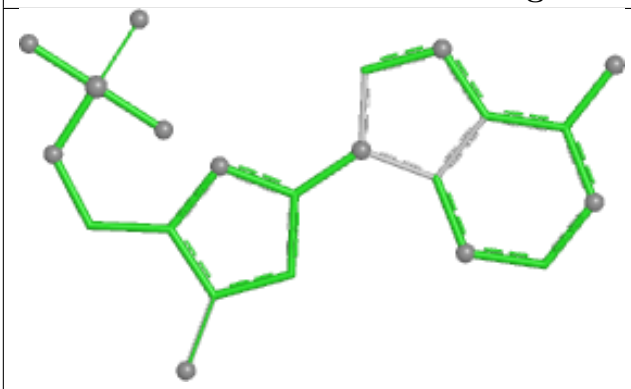


Rings

Ligand D5M c 801



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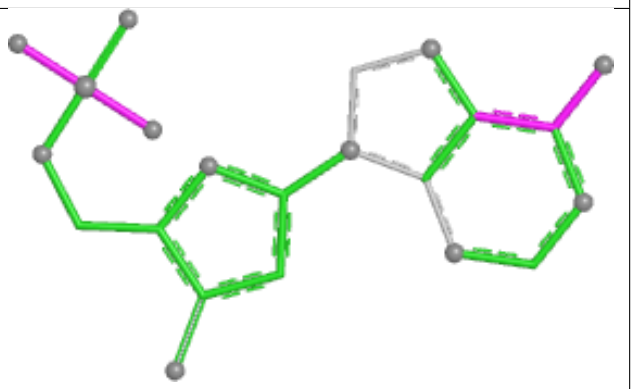
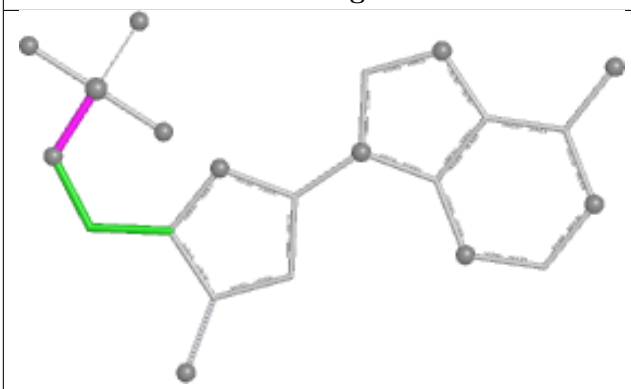


Bond angles



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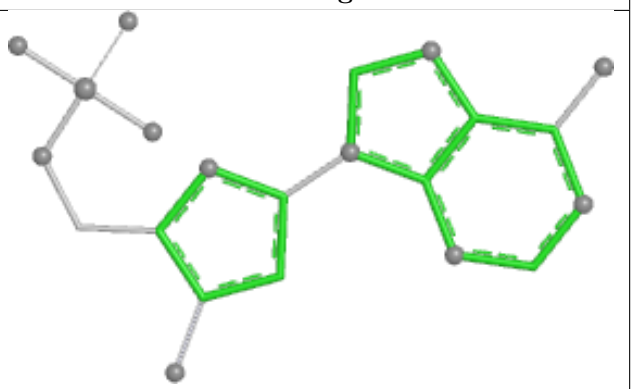
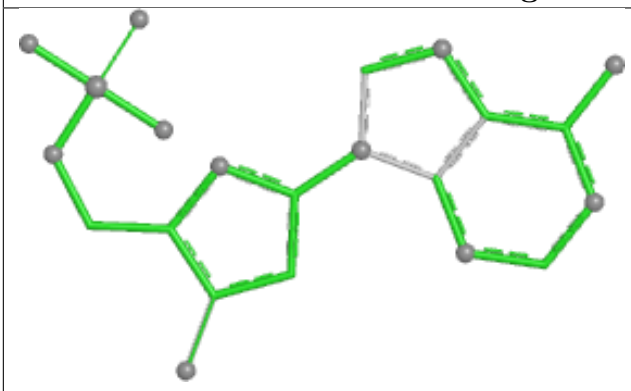


Rings

Ligand D5M G 801



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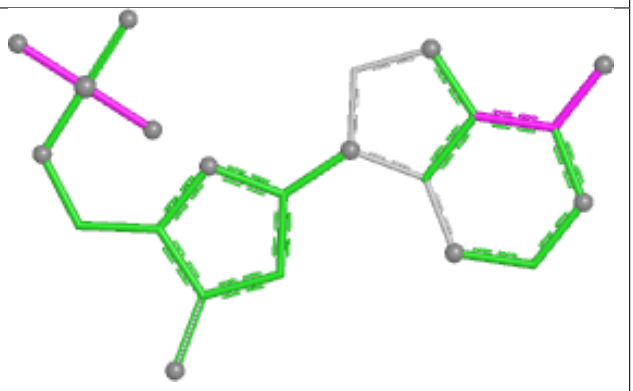
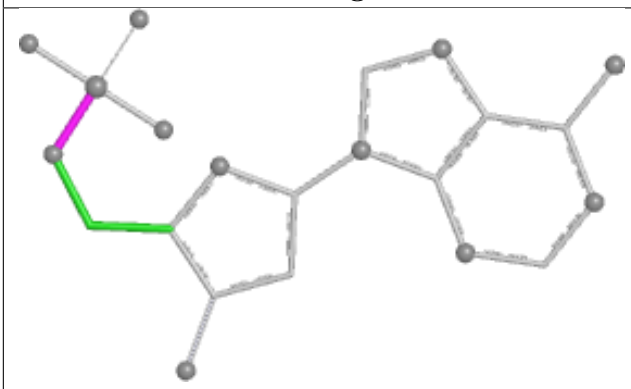
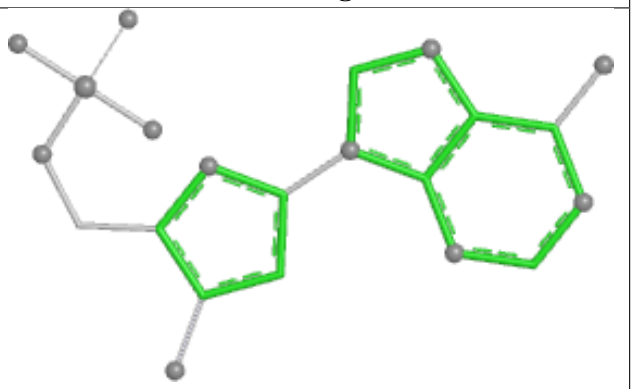


Bond angles

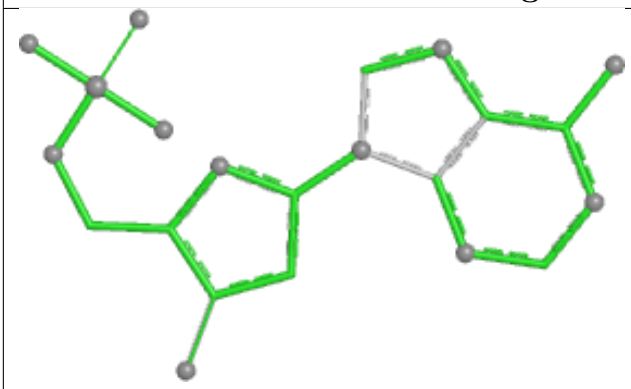


Torsions



Rings

Ligand D5M Y 801



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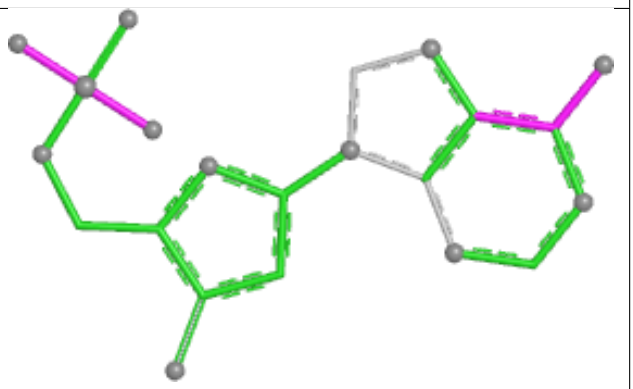

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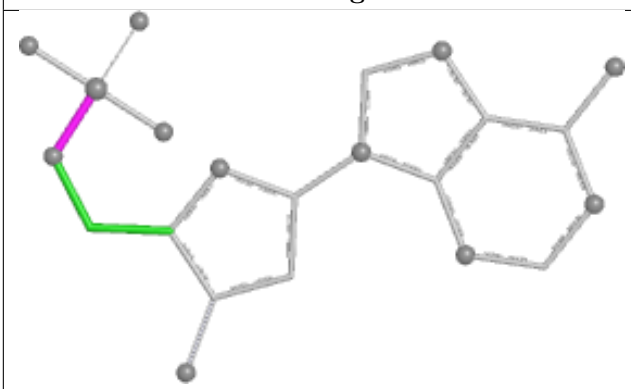

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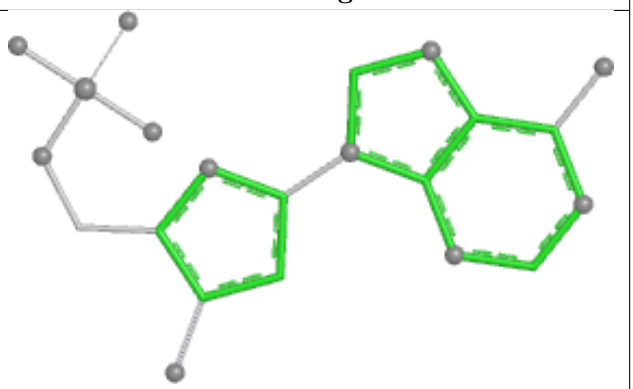
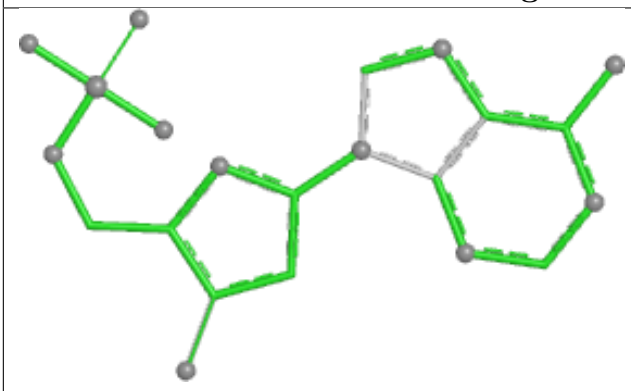


Rings

Ligand D5M D 801



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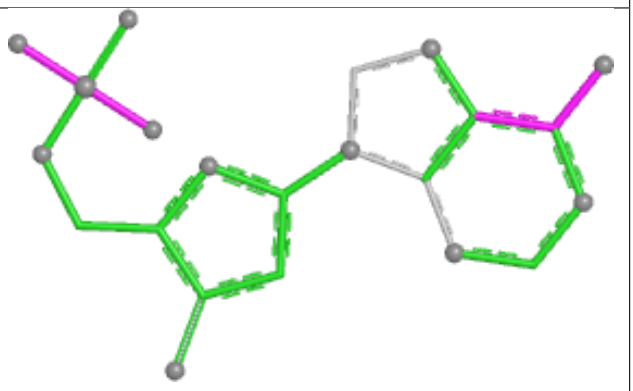
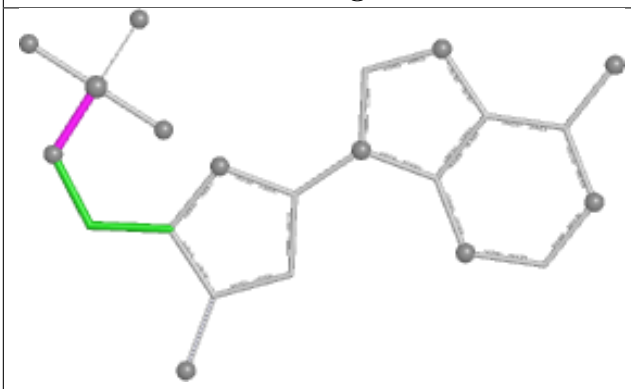


Bond angles



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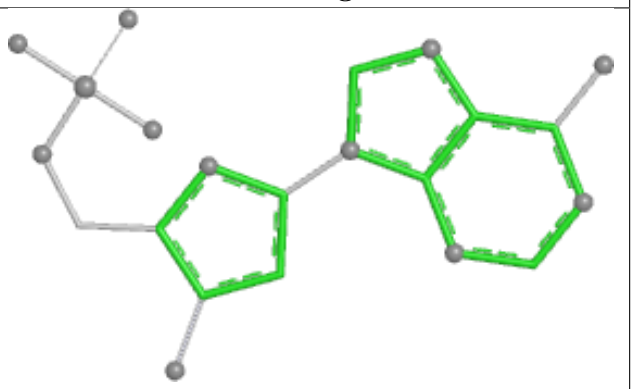
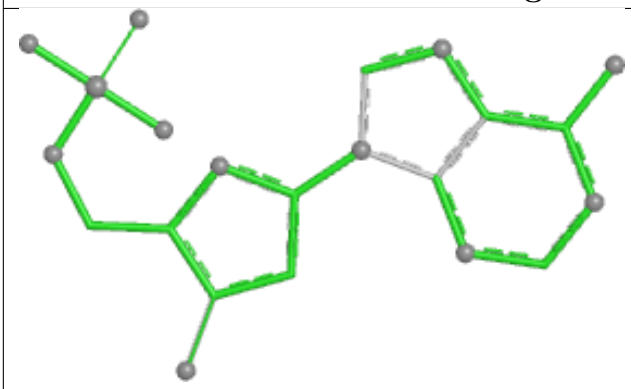


Rings

Ligand D5M b 801



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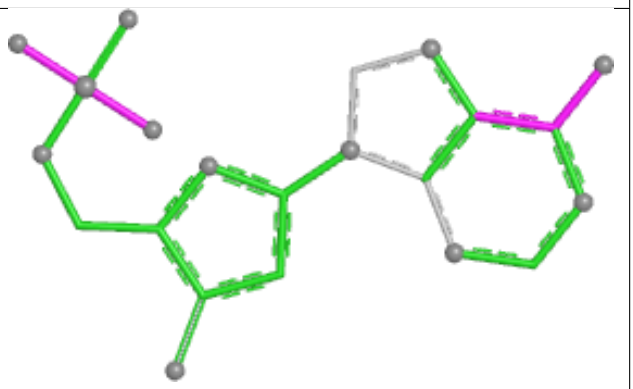
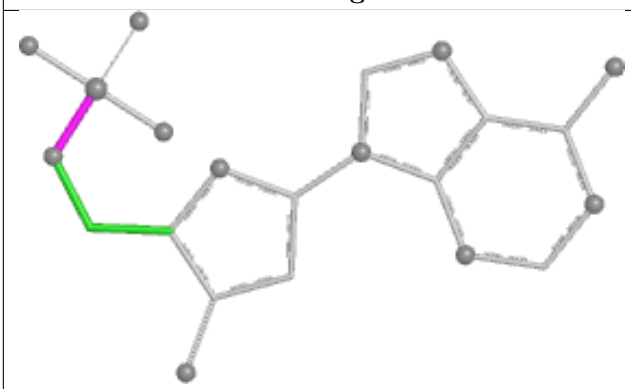
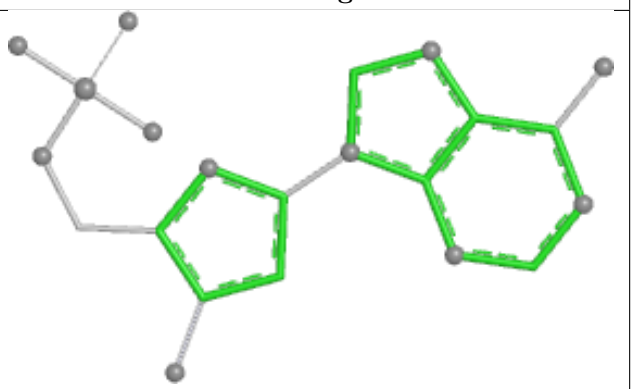


Bond angles



Torsions



Rings

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.

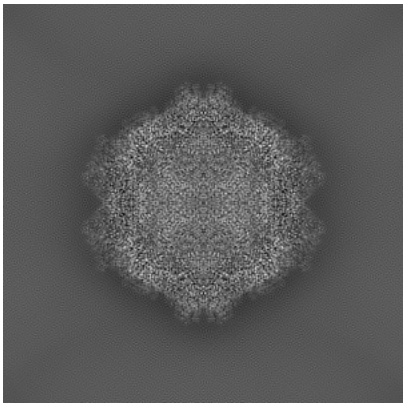
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23200. These allow visual inspection of the internal detail of the map and identification of artifacts.

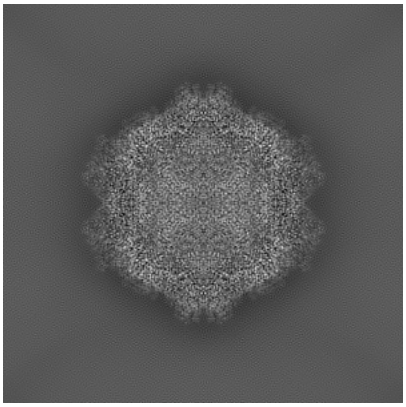
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

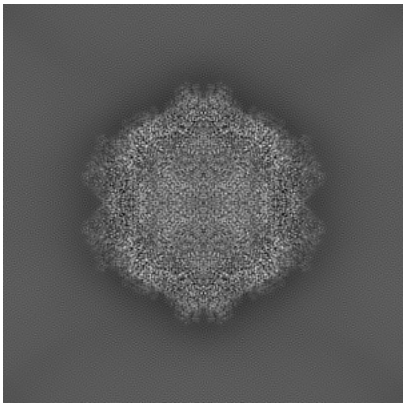
6.1.1 Primary map



X



Y

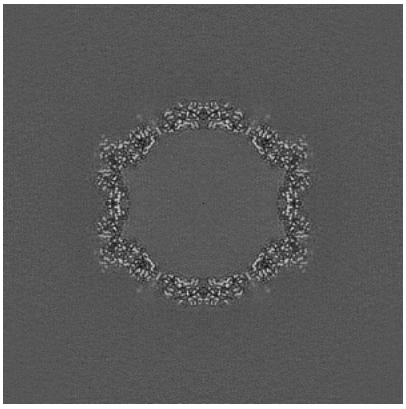


Z

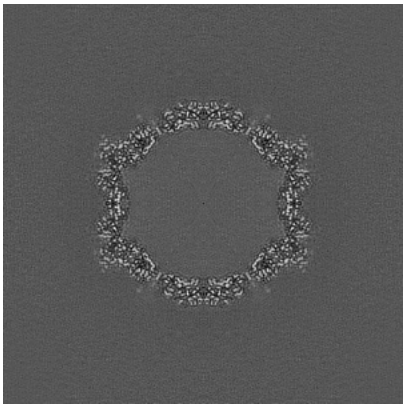
The images above show the map projected in three orthogonal directions.

6.2 Central slices

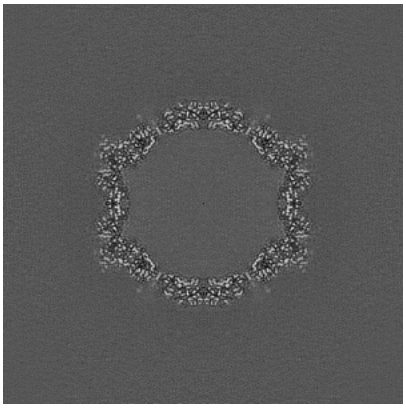
6.2.1 Primary map



X Index: 210



Y Index: 210

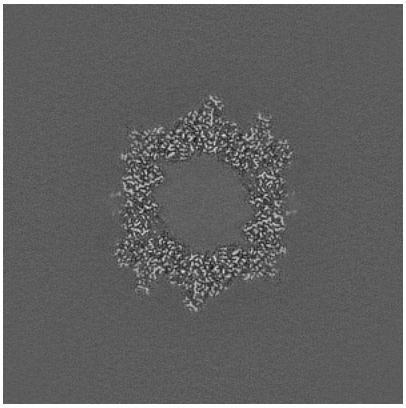


Z Index: 210

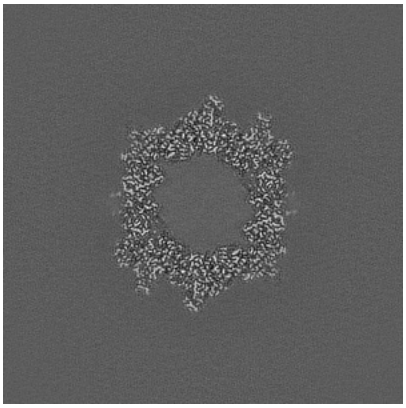
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

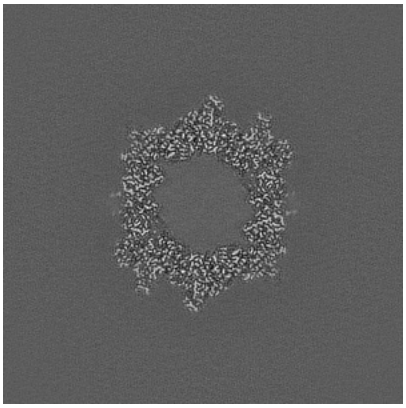
6.3.1 Primary map



X Index: 271



Y Index: 271

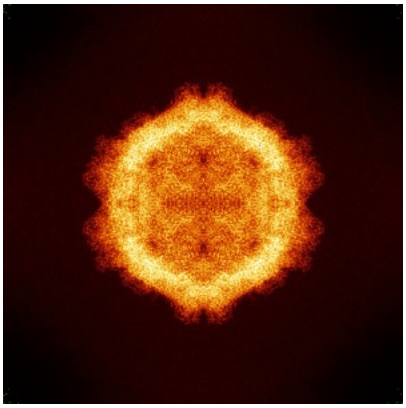


Z Index: 271

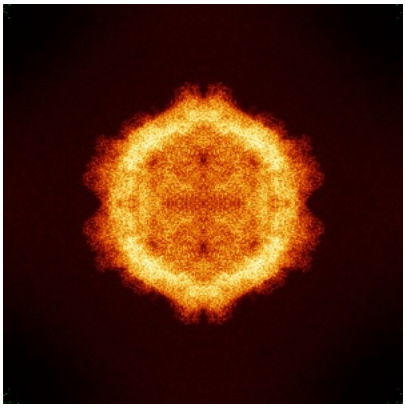
The images above show the largest variance slices of the map in three orthogonal directions.

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

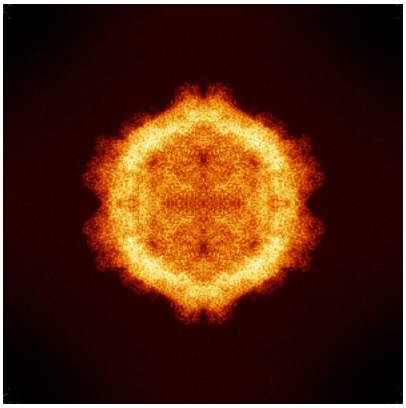
6.4.1 Primary map



X



Y

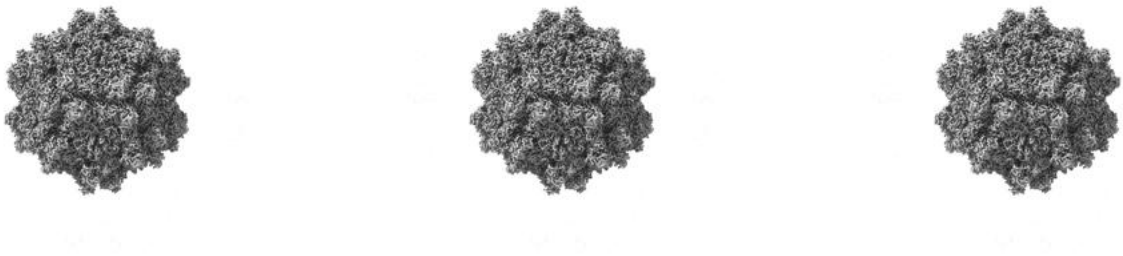


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

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

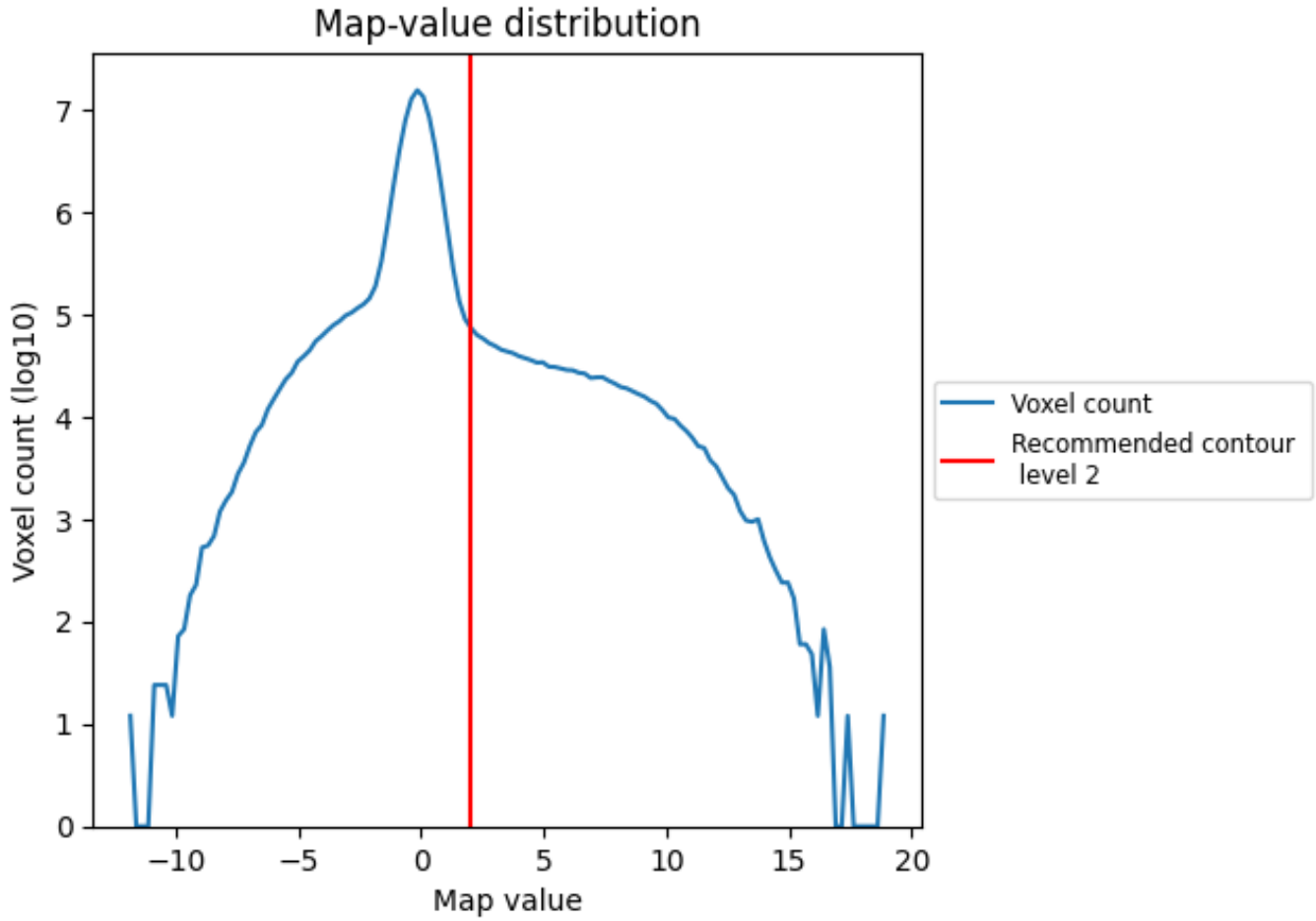
6.6 Mask visualisation (i)

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

7 Map analysis

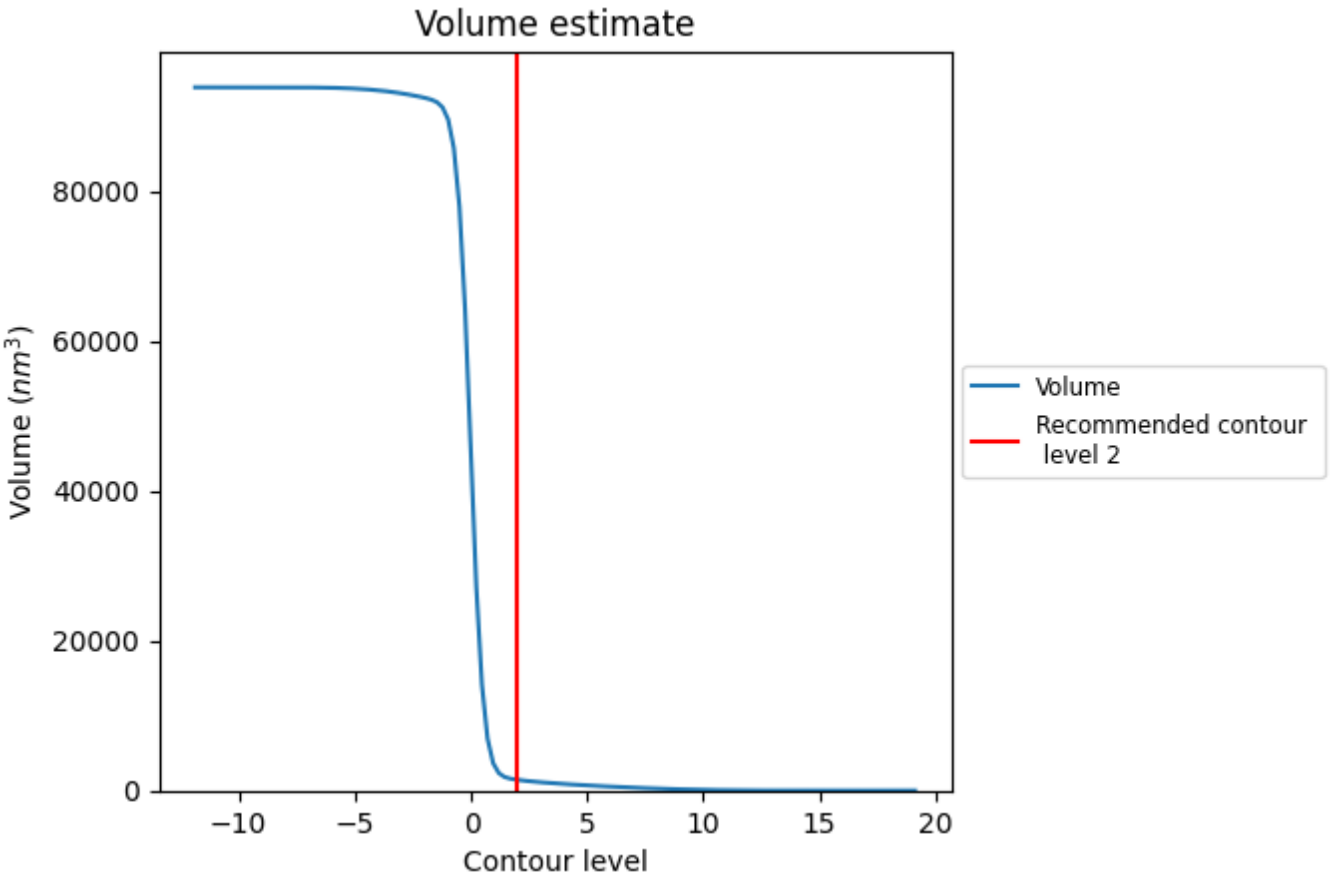
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

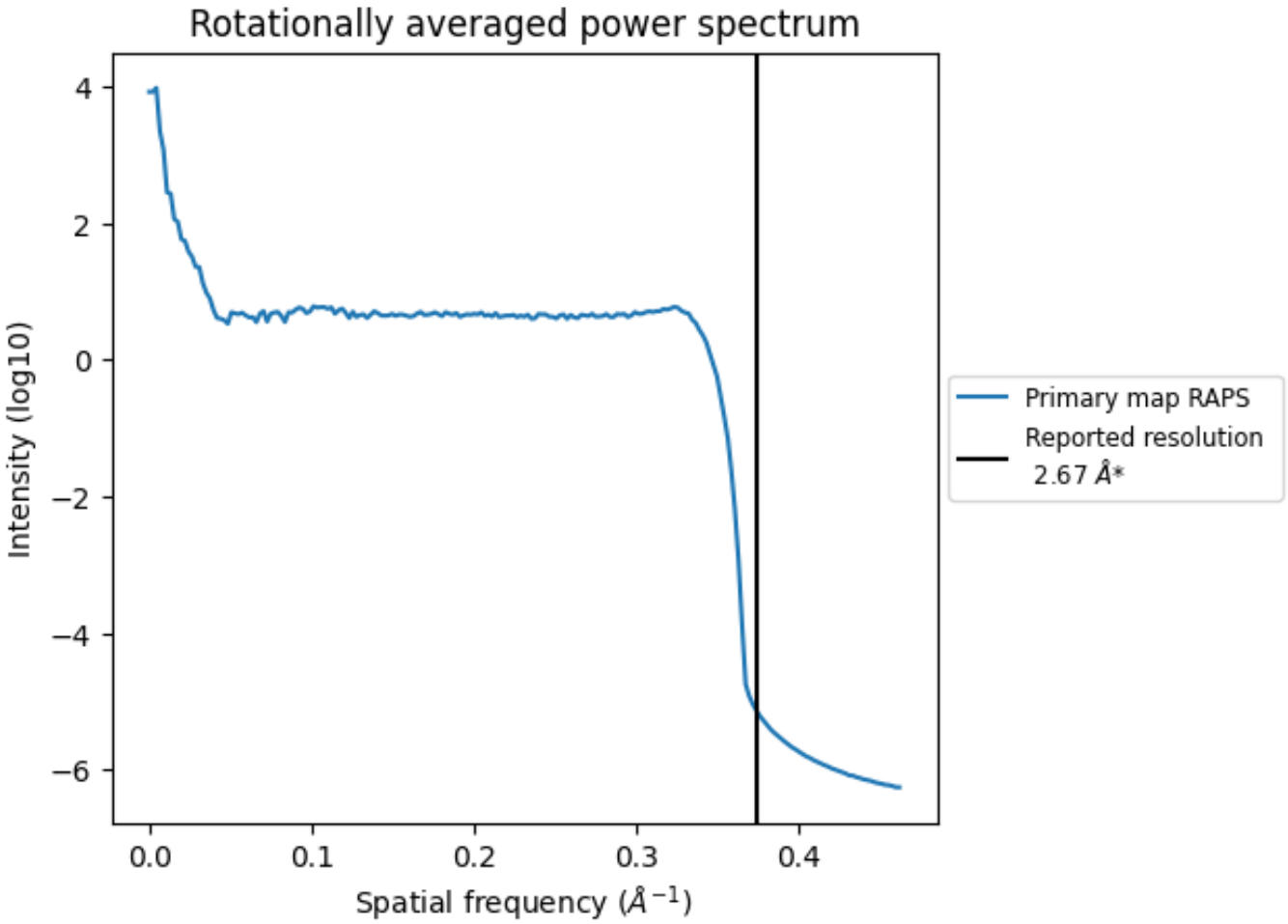
7.2 Volume estimate



The volume at the recommended contour level is 1435 nm^3; this corresponds to an approximate mass of 1296 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.375 Å^{-1}

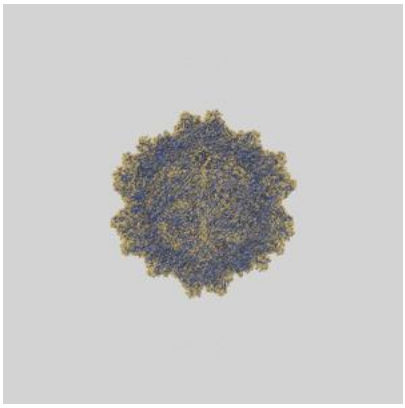
8 Fourier-Shell correlation (i)

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

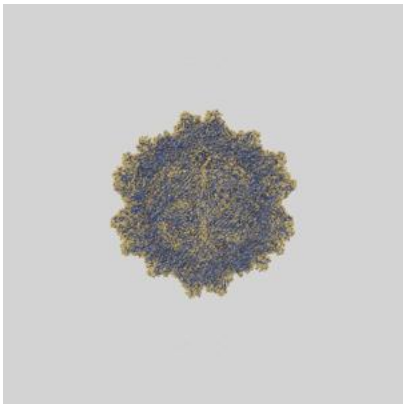
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23200 and PDB model 7L6A. Per-residue inclusion information can be found in section 3 on page 13.

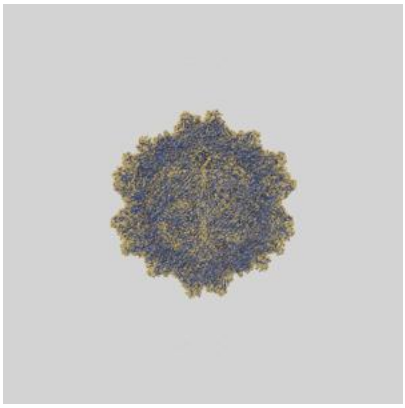
9.1 Map-model overlay



X



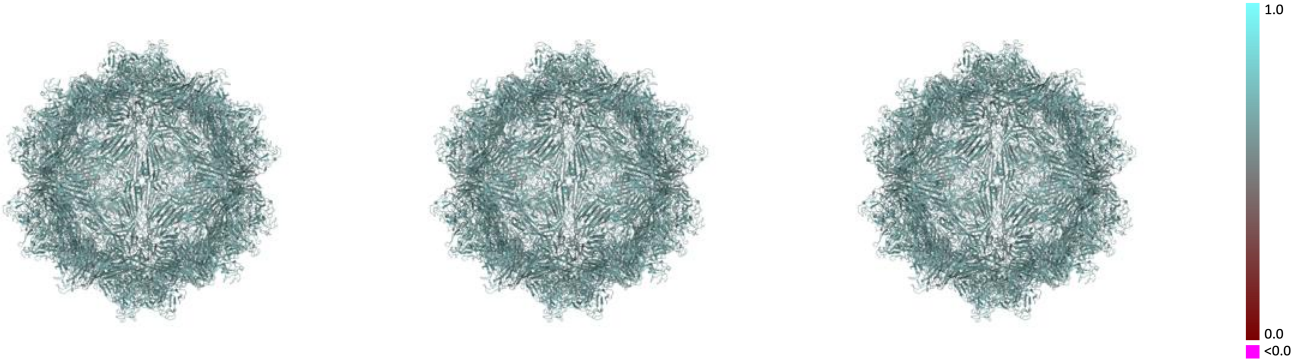
Y



Z

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

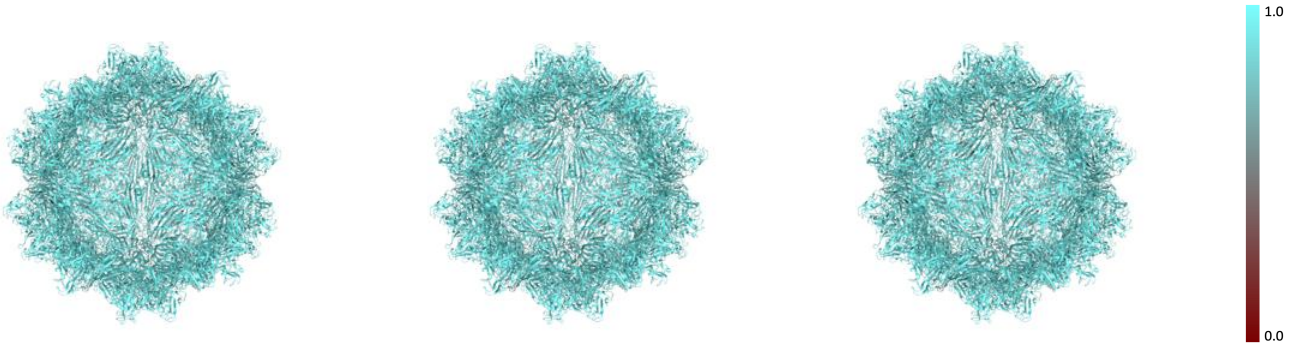
9.2 Q-score mapped to coordinate model



X Y Z

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

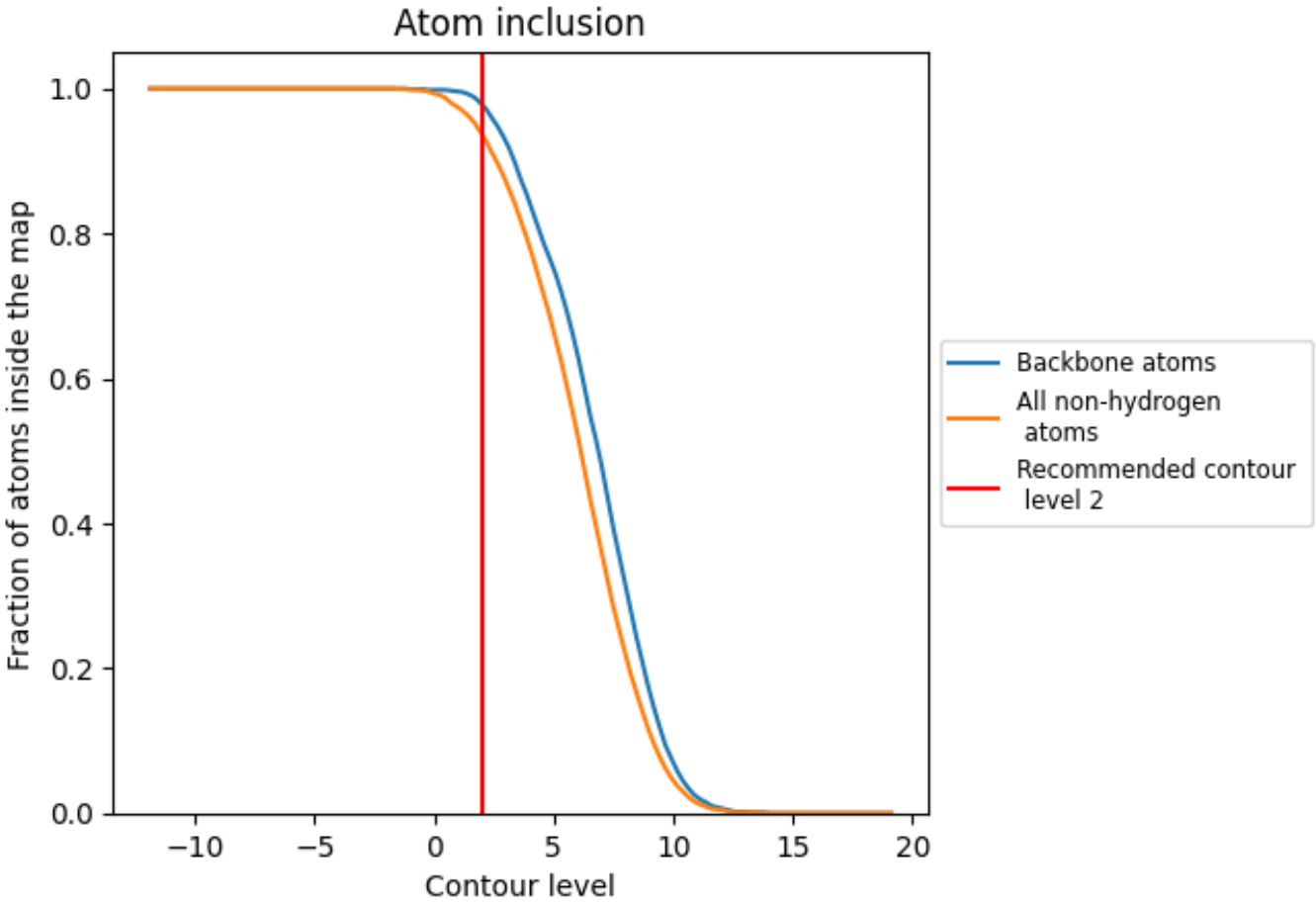
9.3 Atom inclusion mapped to coordinate model



X Y Z

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

9.4 Atom inclusion (i)



At the recommended contour level, 98% of all backbone atoms, 94% 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	0.9370	0.6380
1	0.9350	0.6390
2	0.9350	0.6370
3	0.9380	0.6390
4	0.9360	0.6390
5	0.9380	0.6360
6	0.9380	0.6360
7	0.9380	0.6370
8	0.9370	0.6390
A	0.9380	0.6390
B	0.9350	0.6370
C	0.9360	0.6390
D	0.9380	0.6360
E	0.9370	0.6380
F	0.9380	0.6390
G	0.9370	0.6380
H	0.9380	0.6370
I	0.9360	0.6390
J	0.9350	0.6380
K	0.9360	0.6390
L	0.9350	0.6380
M	0.9370	0.6400
N	0.9380	0.6360
O	0.9370	0.6390
P	0.9380	0.6370
Q	0.9360	0.6390
R	0.9350	0.6380
S	0.9350	0.6380
T	0.9360	0.6400
U	0.9350	0.6380
V	0.9360	0.6390
W	0.9380	0.6370
X	0.9370	0.6390
Y	0.9380	0.6370
Z	0.9370	0.6390

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Chain	Atom inclusion	Q-score
a	0.9380	0.6390
b	0.9380	0.6400
c	0.9380	0.6390
d	0.9380	0.6400
e	0.9380	0.6390
f	0.9380	0.6390
g	0.9360	0.6380
h	0.9370	0.6400
i	0.9380	0.6370
j	0.9380	0.6370
k	0.9380	0.6360
l	0.9370	0.6390
m	0.9360	0.6390
n	0.9380	0.6400
o	0.9370	0.6380
p	0.9360	0.6390
q	0.9360	0.6380
r	0.9350	0.6390
s	0.9350	0.6380
t	0.9370	0.6390
u	0.9360	0.6390
v	0.9380	0.6390
w	0.9370	0.6380
x	0.9360	0.6390
y	0.9380	0.6390
z	0.9350	0.6380