



## Full wwPDB EM Validation Report ⓘ

Jul 14, 2025 – 04:30 PM EDT

PDB ID : 9NTM / pdb\_00009ntm  
EMDB ID : EMD-49760  
Title : SPEF1 bound to 14-pf microtubule  
Authors : Legal, T.; Bui, K.H.  
Deposited on : 2025-03-18  
Resolution : 7.10 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](mailto: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>.

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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) : 2.44

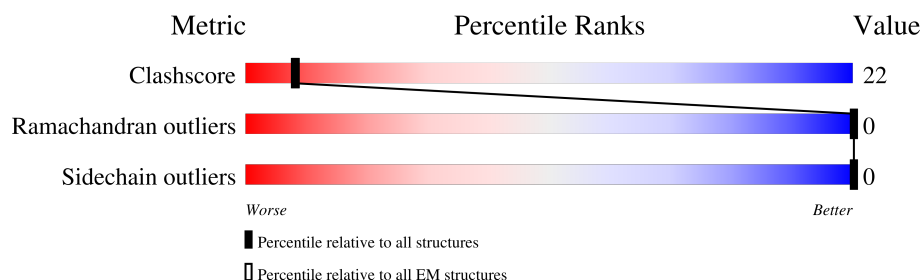
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 7.10 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.









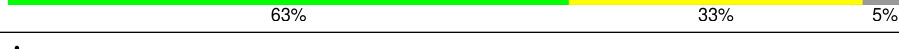
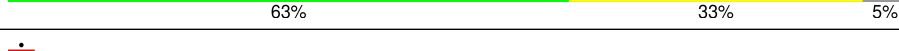
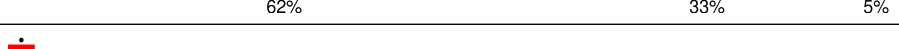
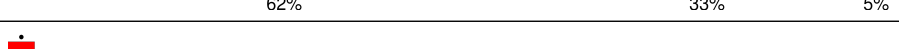
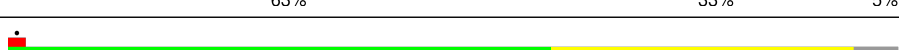

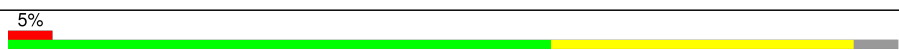

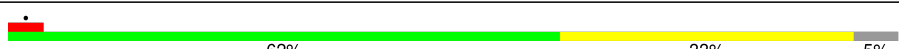





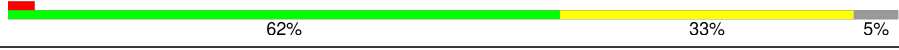
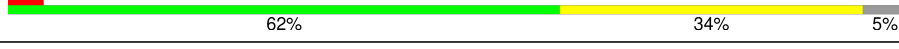



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1A	393	
1	1B	393	
1	1C	393	
1	1D	393	
1	1E	393	
2	AA	451	
2	AC	451	
2	AE	451	







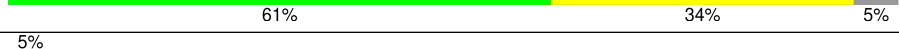
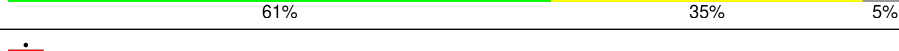
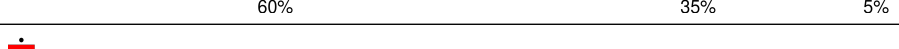
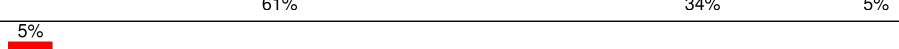
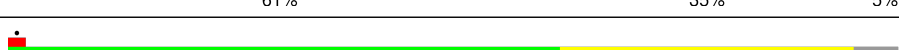

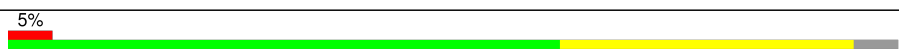

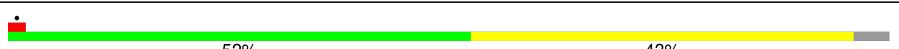





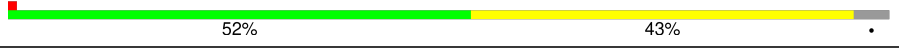
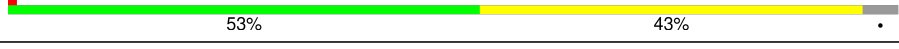



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Mol	Chain	Length	Quality of chain
2	BA	451	
2	BC	451	
2	BE	451	
2	CA	451	
2	CC	451	
2	CE	451	
2	DA	451	
2	DC	451	
2	DE	451	
2	EA	451	
2	EC	451	
2	EE	451	
2	FA	451	
2	FC	451	
2	FE	451	
2	GA	451	
2	GC	451	
2	GE	451	
2	HA	451	
2	HC	451	
2	HE	451	
2	IA	451	
2	IC	451	
2	IE	451	
2	JA	451	

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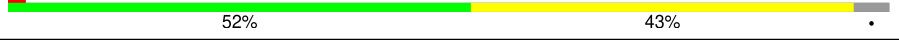



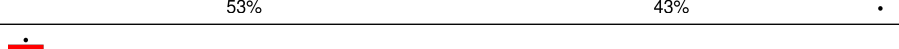
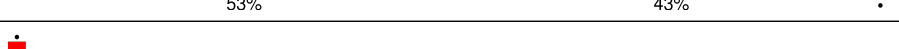



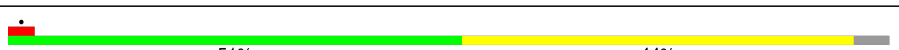
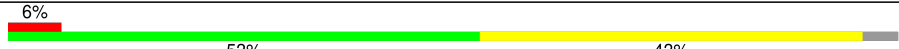





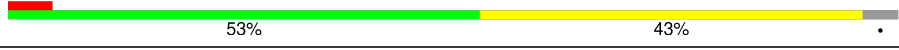
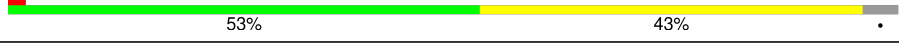



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Mol	Chain	Length	Quality of chain
2	JC	451	
2	JE	451	
2	KA	451	
2	KC	451	
2	KE	451	
2	LA	451	
2	LC	451	
2	LE	451	
2	MA	451	
2	MC	451	
2	ME	451	
2	NA	451	
2	NC	451	
2	NE	451	
3	AB	445	
3	AD	445	
3	AF	445	
3	BB	445	
3	BD	445	
3	BF	445	
3	CB	445	
3	CD	445	
3	CF	445	
3	DB	445	
3	DD	445	

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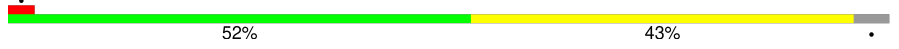




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Mol	Chain	Length	Quality of chain
3	DF	445	
3	EB	445	
3	ED	445	
3	EF	445	
3	FB	445	
3	FD	445	
3	FF	445	
3	GB	445	
3	GD	445	
3	GF	445	
3	HB	445	
3	HD	445	
3	HF	445	
3	IB	445	
3	ID	445	
3	IF	445	
3	JB	445	
3	JD	445	
3	JF	445	
3	KB	445	
3	KD	445	
3	KF	445	
3	LB	445	
3	LD	445	
3	LF	445	

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Mol	Chain	Length	Quality of chain
3	MB	445	
3	MD	445	
3	MF	445	
3	NB	445	
3	ND	445	
3	NF	445	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	GTP	JE	501	-	-	X	-
4	GTP	KC	501	-	-	X	-

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 292618 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 Sperm flagellar protein 1,G protein/GFP fusion protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1A	120	Total	C	N	O	S	0	0
			992	630	186	171	5		
1	1B	120	Total	C	N	O	S	0	0
			992	630	186	171	5		
1	1C	120	Total	C	N	O	S	0	0
			992	630	186	171	5		
1	1D	120	Total	C	N	O	S	0	0
			992	630	186	171	5		
1	1E	120	Total	C	N	O	S	0	0
			992	630	186	171	5		

There are 145 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1A	-2	PRO	-	expression tag	UNP Q9Y4P9
1A	-1	THR	-	expression tag	UNP Q9Y4P9
1A	0	MET	-	expression tag	UNP Q9Y4P9
1A	1	GLY	-	expression tag	UNP Q9Y4P9
1A	2	SER	-	expression tag	UNP Q9Y4P9
1A	3	SER	-	expression tag	UNP Q9Y4P9
1A	4	GLY	-	expression tag	UNP Q9Y4P9
1A	5	SER	-	expression tag	UNP Q9Y4P9
1A	6	SER	-	expression tag	UNP Q9Y4P9
1A	7	GLY	-	expression tag	UNP Q9Y4P9
1A	133	SER	-	linker	UNP Q9Y4P9
1A	134	SER	-	linker	UNP Q9Y4P9
1A	135	PRO	-	linker	UNP Q9Y4P9
1A	136	GLN	-	linker	UNP Q9Y4P9
1A	137	GLN	-	linker	UNP Q9Y4P9
1A	377	GLY	-	expression tag	UNP B7UCZ6
1A	378	SER	-	expression tag	UNP B7UCZ6
1A	379	ALA	-	expression tag	UNP B7UCZ6
1A	380	ALA	-	expression tag	UNP B7UCZ6
1A	381	ALA	-	expression tag	UNP B7UCZ6

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Chain	Residue	Modelled	Actual	Comment	Reference
1A	382	ALA	-	expression tag	UNP B7UCZ6
1A	383	TRP	-	expression tag	UNP B7UCZ6
1A	384	SER	-	expression tag	UNP B7UCZ6
1A	385	HIS	-	expression tag	UNP B7UCZ6
1A	386	PRO	-	expression tag	UNP B7UCZ6
1A	387	GLN	-	expression tag	UNP B7UCZ6
1A	388	PHE	-	expression tag	UNP B7UCZ6
1A	389	GLU	-	expression tag	UNP B7UCZ6
1A	390	LYS	-	expression tag	UNP B7UCZ6
1B	-2	PRO	-	expression tag	UNP Q9Y4P9
1B	-1	THR	-	expression tag	UNP Q9Y4P9
1B	0	MET	-	expression tag	UNP Q9Y4P9
1B	1	GLY	-	expression tag	UNP Q9Y4P9
1B	2	SER	-	expression tag	UNP Q9Y4P9
1B	3	SER	-	expression tag	UNP Q9Y4P9
1B	4	GLY	-	expression tag	UNP Q9Y4P9
1B	5	SER	-	expression tag	UNP Q9Y4P9
1B	6	SER	-	expression tag	UNP Q9Y4P9
1B	7	GLY	-	expression tag	UNP Q9Y4P9
1B	133	SER	-	linker	UNP Q9Y4P9
1B	134	SER	-	linker	UNP Q9Y4P9
1B	135	PRO	-	linker	UNP Q9Y4P9
1B	136	GLN	-	linker	UNP Q9Y4P9
1B	137	GLN	-	linker	UNP Q9Y4P9
1B	377	GLY	-	expression tag	UNP B7UCZ6
1B	378	SER	-	expression tag	UNP B7UCZ6
1B	379	ALA	-	expression tag	UNP B7UCZ6
1B	380	ALA	-	expression tag	UNP B7UCZ6
1B	381	ALA	-	expression tag	UNP B7UCZ6
1B	382	ALA	-	expression tag	UNP B7UCZ6
1B	383	TRP	-	expression tag	UNP B7UCZ6
1B	384	SER	-	expression tag	UNP B7UCZ6
1B	385	HIS	-	expression tag	UNP B7UCZ6
1B	386	PRO	-	expression tag	UNP B7UCZ6
1B	387	GLN	-	expression tag	UNP B7UCZ6
1B	388	PHE	-	expression tag	UNP B7UCZ6
1B	389	GLU	-	expression tag	UNP B7UCZ6
1B	390	LYS	-	expression tag	UNP B7UCZ6
1C	-2	PRO	-	expression tag	UNP Q9Y4P9
1C	-1	THR	-	expression tag	UNP Q9Y4P9
1C	0	MET	-	expression tag	UNP Q9Y4P9
1C	1	GLY	-	expression tag	UNP Q9Y4P9

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Chain	Residue	Modelled	Actual	Comment	Reference
1C	2	SER	-	expression tag	UNP Q9Y4P9
1C	3	SER	-	expression tag	UNP Q9Y4P9
1C	4	GLY	-	expression tag	UNP Q9Y4P9
1C	5	SER	-	expression tag	UNP Q9Y4P9
1C	6	SER	-	expression tag	UNP Q9Y4P9
1C	7	GLY	-	expression tag	UNP Q9Y4P9
1C	133	SER	-	linker	UNP Q9Y4P9
1C	134	SER	-	linker	UNP Q9Y4P9
1C	135	PRO	-	linker	UNP Q9Y4P9
1C	136	GLN	-	linker	UNP Q9Y4P9
1C	137	GLN	-	linker	UNP Q9Y4P9
1C	377	GLY	-	expression tag	UNP B7UCZ6
1C	378	SER	-	expression tag	UNP B7UCZ6
1C	379	ALA	-	expression tag	UNP B7UCZ6
1C	380	ALA	-	expression tag	UNP B7UCZ6
1C	381	ALA	-	expression tag	UNP B7UCZ6
1C	382	ALA	-	expression tag	UNP B7UCZ6
1C	383	TRP	-	expression tag	UNP B7UCZ6
1C	384	SER	-	expression tag	UNP B7UCZ6
1C	385	HIS	-	expression tag	UNP B7UCZ6
1C	386	PRO	-	expression tag	UNP B7UCZ6
1C	387	GLN	-	expression tag	UNP B7UCZ6
1C	388	PHE	-	expression tag	UNP B7UCZ6
1C	389	GLU	-	expression tag	UNP B7UCZ6
1C	390	LYS	-	expression tag	UNP B7UCZ6
1D	-2	PRO	-	expression tag	UNP Q9Y4P9
1D	-1	THR	-	expression tag	UNP Q9Y4P9
1D	0	MET	-	expression tag	UNP Q9Y4P9
1D	1	GLY	-	expression tag	UNP Q9Y4P9
1D	2	SER	-	expression tag	UNP Q9Y4P9
1D	3	SER	-	expression tag	UNP Q9Y4P9
1D	4	GLY	-	expression tag	UNP Q9Y4P9
1D	5	SER	-	expression tag	UNP Q9Y4P9
1D	6	SER	-	expression tag	UNP Q9Y4P9
1D	7	GLY	-	expression tag	UNP Q9Y4P9
1D	133	SER	-	linker	UNP Q9Y4P9
1D	134	SER	-	linker	UNP Q9Y4P9
1D	135	PRO	-	linker	UNP Q9Y4P9
1D	136	GLN	-	linker	UNP Q9Y4P9
1D	137	GLN	-	linker	UNP Q9Y4P9
1D	377	GLY	-	expression tag	UNP B7UCZ6
1D	378	SER	-	expression tag	UNP B7UCZ6

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Chain	Residue	Modelled	Actual	Comment	Reference
1D	379	ALA	-	expression tag	UNP B7UCZ6
1D	380	ALA	-	expression tag	UNP B7UCZ6
1D	381	ALA	-	expression tag	UNP B7UCZ6
1D	382	ALA	-	expression tag	UNP B7UCZ6
1D	383	TRP	-	expression tag	UNP B7UCZ6
1D	384	SER	-	expression tag	UNP B7UCZ6
1D	385	HIS	-	expression tag	UNP B7UCZ6
1D	386	PRO	-	expression tag	UNP B7UCZ6
1D	387	GLN	-	expression tag	UNP B7UCZ6
1D	388	PHE	-	expression tag	UNP B7UCZ6
1D	389	GLU	-	expression tag	UNP B7UCZ6
1D	390	LYS	-	expression tag	UNP B7UCZ6
1E	-2	PRO	-	expression tag	UNP Q9Y4P9
1E	-1	THR	-	expression tag	UNP Q9Y4P9
1E	0	MET	-	expression tag	UNP Q9Y4P9
1E	1	GLY	-	expression tag	UNP Q9Y4P9
1E	2	SER	-	expression tag	UNP Q9Y4P9
1E	3	SER	-	expression tag	UNP Q9Y4P9
1E	4	GLY	-	expression tag	UNP Q9Y4P9
1E	5	SER	-	expression tag	UNP Q9Y4P9
1E	6	SER	-	expression tag	UNP Q9Y4P9
1E	7	GLY	-	expression tag	UNP Q9Y4P9
1E	133	SER	-	linker	UNP Q9Y4P9
1E	134	SER	-	linker	UNP Q9Y4P9
1E	135	PRO	-	linker	UNP Q9Y4P9
1E	136	GLN	-	linker	UNP Q9Y4P9
1E	137	GLN	-	linker	UNP Q9Y4P9
1E	377	GLY	-	expression tag	UNP B7UCZ6
1E	378	SER	-	expression tag	UNP B7UCZ6
1E	379	ALA	-	expression tag	UNP B7UCZ6
1E	380	ALA	-	expression tag	UNP B7UCZ6
1E	381	ALA	-	expression tag	UNP B7UCZ6
1E	382	ALA	-	expression tag	UNP B7UCZ6
1E	383	TRP	-	expression tag	UNP B7UCZ6
1E	384	SER	-	expression tag	UNP B7UCZ6
1E	385	HIS	-	expression tag	UNP B7UCZ6
1E	386	PRO	-	expression tag	UNP B7UCZ6
1E	387	GLN	-	expression tag	UNP B7UCZ6
1E	388	PHE	-	expression tag	UNP B7UCZ6
1E	389	GLU	-	expression tag	UNP B7UCZ6
1E	390	LYS	-	expression tag	UNP B7UCZ6

- Molecule 2 is a protein called Tubulin alpha-1B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	AC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	AE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	BA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	BC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	BE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	CA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	CC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	CE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	DA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	DC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	DE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	EA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	EC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	EE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	FA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	FC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	FE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	GA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	GC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	GE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	HA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	HC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	HE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	IA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	IC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	IE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	JA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	JC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	JE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	KA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	KC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	KE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	LA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	LC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	LE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	MA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	MC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	ME	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	NA	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	NC	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		
2	NE	430	Total	C	N	O	S	0	0
			3372	2137	573	640	22		

- Molecule 3 is a protein called Tubulin beta chain.



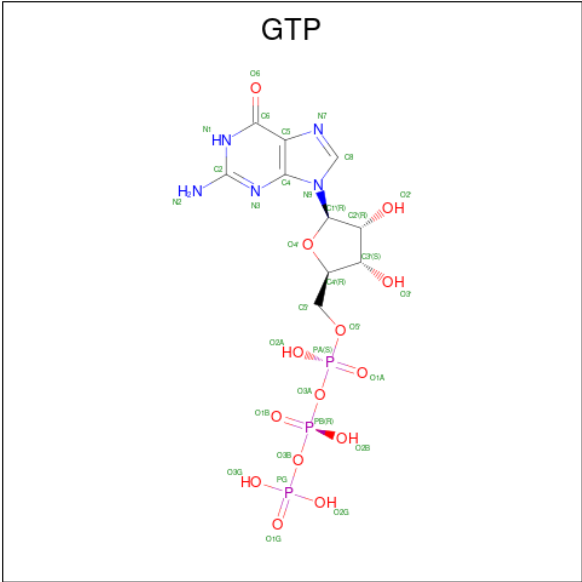
Mol	Chain	Residues	Atoms					AltConf	Trace
3	AB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	AD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	AF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	BB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	BD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	BF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	CB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	CD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	CF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	DB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	DD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	DF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	EB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	ED	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	EF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	FB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	FD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	FF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	GB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	GD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	GF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	HB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	HD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	HF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	IB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	ID	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	IF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	JB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	JD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	JF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	KB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	KD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	KF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	LB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	LD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	LF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	MB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	MD	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	MF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	NB	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	ND	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		
3	NF	426	Total	C	N	O	S	0	0
			3354	2107	575	646	26		

- Molecule 4 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula:  $C_{10}H_{16}N_5O_{14}P_3$ ).



Mol	Chain	Residues	Atoms					AltConf
4	AA	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	AC	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	AE	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	BA	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	BC	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	BE	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	CA	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	CC	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	CE	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	DA	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	DC	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	DE	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	EA	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	EC	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
4	EE	1	Total 32	C 10	N 5	O 14	P 3	0
4	FA	1	Total 32	C 10	N 5	O 14	P 3	0
4	FC	1	Total 32	C 10	N 5	O 14	P 3	0
4	FE	1	Total 32	C 10	N 5	O 14	P 3	0
4	GA	1	Total 32	C 10	N 5	O 14	P 3	0
4	GC	1	Total 32	C 10	N 5	O 14	P 3	0
4	GE	1	Total 32	C 10	N 5	O 14	P 3	0
4	HA	1	Total 32	C 10	N 5	O 14	P 3	0
4	HC	1	Total 32	C 10	N 5	O 14	P 3	0
4	HE	1	Total 32	C 10	N 5	O 14	P 3	0
4	IA	1	Total 32	C 10	N 5	O 14	P 3	0
4	IC	1	Total 32	C 10	N 5	O 14	P 3	0
4	IE	1	Total 32	C 10	N 5	O 14	P 3	0
4	JA	1	Total 32	C 10	N 5	O 14	P 3	0
4	JC	1	Total 32	C 10	N 5	O 14	P 3	0
4	JE	1	Total 32	C 10	N 5	O 14	P 3	0
4	KA	1	Total 32	C 10	N 5	O 14	P 3	0
4	KC	1	Total 32	C 10	N 5	O 14	P 3	0
4	KE	1	Total 32	C 10	N 5	O 14	P 3	0
4	LA	1	Total 32	C 10	N 5	O 14	P 3	0
4	LC	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
4	LE	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	MA	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	MC	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	ME	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	NA	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	NC	1	Total	C	N	O	P	0
			32	10	5	14	3	
4	NE	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 5 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
5	AA	1	Total	Mg	0
			1	1	
5	AC	1	Total	Mg	0
			1	1	
5	AE	1	Total	Mg	0
			1	1	
5	BA	1	Total	Mg	0
			1	1	
5	BC	1	Total	Mg	0
			1	1	
5	BE	1	Total	Mg	0
			1	1	
5	CA	1	Total	Mg	0
			1	1	
5	CC	1	Total	Mg	0
			1	1	
5	CE	1	Total	Mg	0
			1	1	
5	DA	1	Total	Mg	0
			1	1	
5	DC	1	Total	Mg	0
			1	1	
5	DE	1	Total	Mg	0
			1	1	

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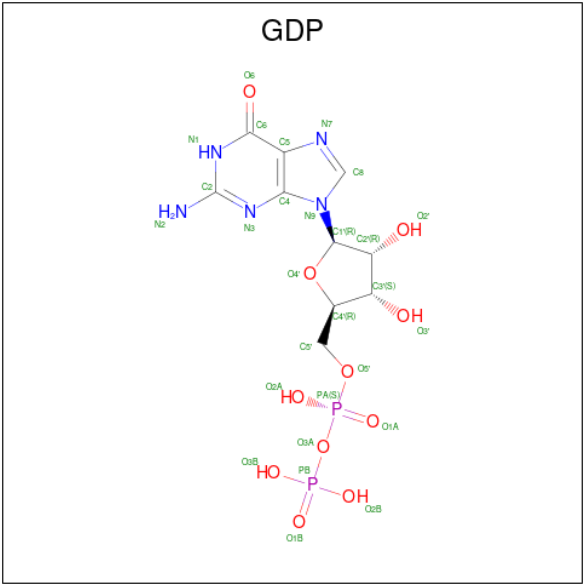
Mol	Chain	Residues	Atoms		AltConf
5	EA	1	Total 1	Mg 1	0
5	EC	1	Total 1	Mg 1	0
5	EE	1	Total 1	Mg 1	0
5	FA	1	Total 1	Mg 1	0
5	FC	1	Total 1	Mg 1	0
5	FE	1	Total 1	Mg 1	0
5	GA	1	Total 1	Mg 1	0
5	GC	1	Total 1	Mg 1	0
5	GE	1	Total 1	Mg 1	0
5	HA	1	Total 1	Mg 1	0
5	HC	1	Total 1	Mg 1	0
5	HE	1	Total 1	Mg 1	0
5	IA	1	Total 1	Mg 1	0
5	IC	1	Total 1	Mg 1	0
5	IE	1	Total 1	Mg 1	0
5	JA	1	Total 1	Mg 1	0
5	JC	1	Total 1	Mg 1	0
5	JE	1	Total 1	Mg 1	0
5	KA	1	Total 1	Mg 1	0
5	KC	1	Total 1	Mg 1	0
5	KE	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
5	LA	1	Total	Mg	0
			1	1	
5	LC	1	Total	Mg	0
			1	1	
5	LE	1	Total	Mg	0
			1	1	
5	MA	1	Total	Mg	0
			1	1	
5	MC	1	Total	Mg	0
			1	1	
5	ME	1	Total	Mg	0
			1	1	
5	NA	1	Total	Mg	0
			1	1	
5	NC	1	Total	Mg	0
			1	1	
5	NE	1	Total	Mg	0
			1	1	

- Molecule 6 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: C<sub>10</sub>H<sub>15</sub>N<sub>5</sub>O<sub>11</sub>P<sub>2</sub>).



Mol	Chain	Residues	Atoms					AltConf
6	AB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	AD	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
6	AF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	BB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	BD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	BF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	CB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	CD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	CF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	DB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	DD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	DF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	EB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	ED	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	EF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	FB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	FD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	FF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	GB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	GD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	GF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	HB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	HD	1	Total	C	N	O	P	0
			28	10	5	11	2	

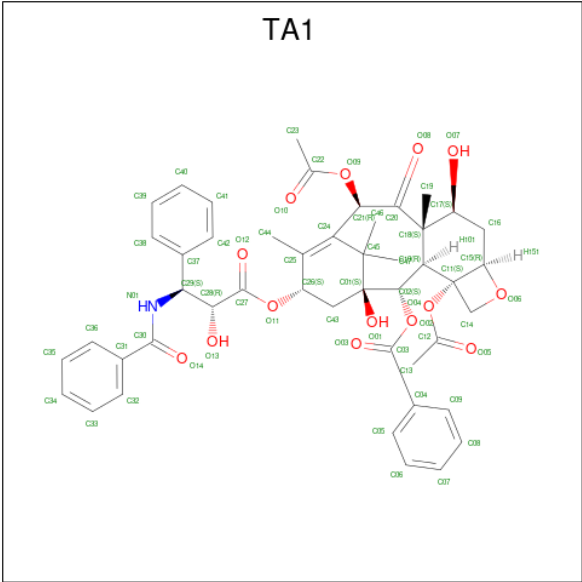
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Mol	Chain	Residues	Atoms					AltConf
6	HF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	IB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	ID	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	IF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	JB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	JD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	JF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	KB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	KD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	KF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	LB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	LD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	LF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	MB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	MD	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	MF	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	NB	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	ND	1	Total	C	N	O	P	0
			28	10	5	11	2	
6	NF	1	Total	C	N	O	P	0
			28	10	5	11	2	

- Molecule 7 is TAXOL (CCD ID: TA1) (formula: C<sub>47</sub>H<sub>51</sub>NO<sub>14</sub>).



Mol	Chain	Residues	Atoms				AltConf
7	AB	1	Total	C	N	O	0
			62	47	1	14	
7	AD	1	Total	C	N	O	0
			62	47	1	14	
7	AF	1	Total	C	N	O	0
			62	47	1	14	
7	BB	1	Total	C	N	O	0
			62	47	1	14	
7	BD	1	Total	C	N	O	0
			62	47	1	14	
7	BF	1	Total	C	N	O	0
			62	47	1	14	
7	CB	1	Total	C	N	O	0
			62	47	1	14	
7	CD	1	Total	C	N	O	0
			62	47	1	14	
7	CF	1	Total	C	N	O	0
			62	47	1	14	
7	DB	1	Total	C	N	O	0
			62	47	1	14	
7	DD	1	Total	C	N	O	0
			62	47	1	14	
7	DF	1	Total	C	N	O	0
			62	47	1	14	
7	EB	1	Total	C	N	O	0
			62	47	1	14	
7	ED	1	Total	C	N	O	0
			62	47	1	14	

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Mol	Chain	Residues	Atoms				AltConf
7	EF	1	Total 62	C 47	N 1	O 14	0
7	FB	1	Total 62	C 47	N 1	O 14	0
7	FD	1	Total 62	C 47	N 1	O 14	0
7	FF	1	Total 62	C 47	N 1	O 14	0
7	GB	1	Total 62	C 47	N 1	O 14	0
7	GD	1	Total 62	C 47	N 1	O 14	0
7	GF	1	Total 62	C 47	N 1	O 14	0
7	HB	1	Total 62	C 47	N 1	O 14	0
7	HD	1	Total 62	C 47	N 1	O 14	0
7	HF	1	Total 62	C 47	N 1	O 14	0
7	IB	1	Total 62	C 47	N 1	O 14	0
7	ID	1	Total 62	C 47	N 1	O 14	0
7	IF	1	Total 62	C 47	N 1	O 14	0
7	JB	1	Total 62	C 47	N 1	O 14	0
7	JD	1	Total 62	C 47	N 1	O 14	0
7	JF	1	Total 62	C 47	N 1	O 14	0
7	KB	1	Total 62	C 47	N 1	O 14	0
7	KD	1	Total 62	C 47	N 1	O 14	0
7	KF	1	Total 62	C 47	N 1	O 14	0
7	LB	1	Total 62	C 47	N 1	O 14	0
7	LD	1	Total 62	C 47	N 1	O 14	0

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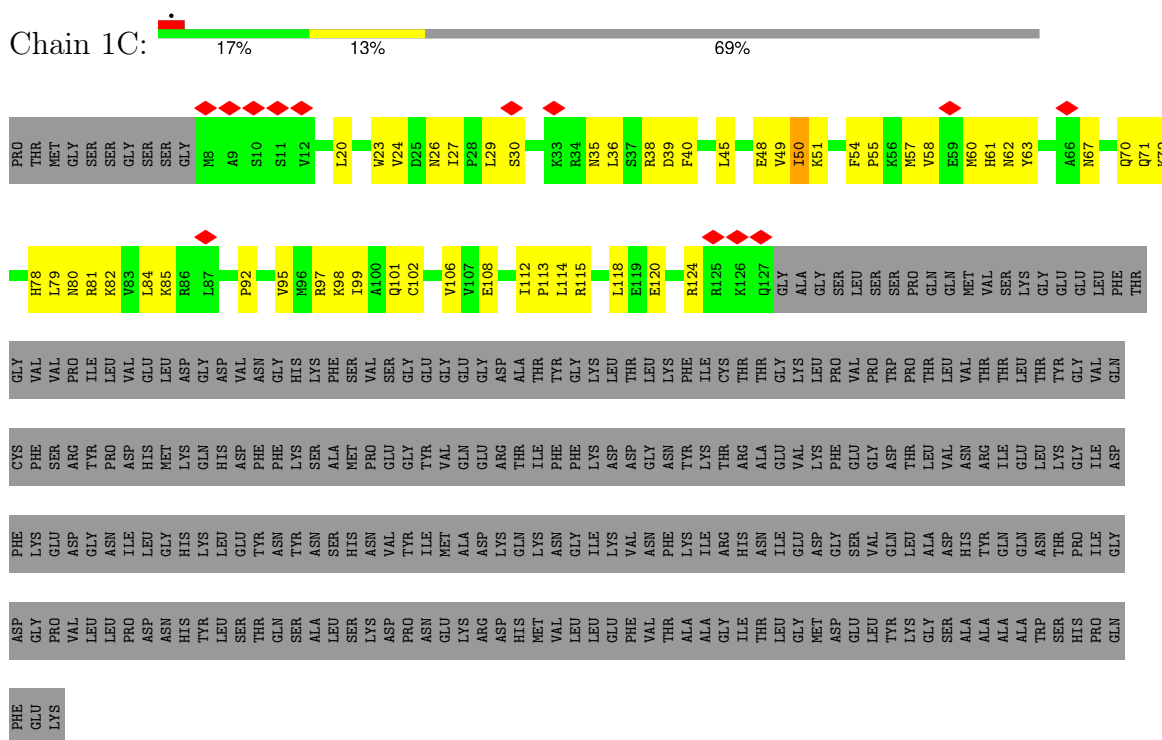
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Mol	Chain	Residues	Atoms				AltConf
7	LF	1	Total	C	N	O	0
			62	47	1	14	
7	MB	1	Total	C	N	O	0
			62	47	1	14	
7	MD	1	Total	C	N	O	0
			62	47	1	14	
7	MF	1	Total	C	N	O	0
			62	47	1	14	
7	NB	1	Total	C	N	O	0
			62	47	1	14	
7	ND	1	Total	C	N	O	0
			62	47	1	14	
7	NF	1	Total	C	N	O	0
			62	47	1	14	

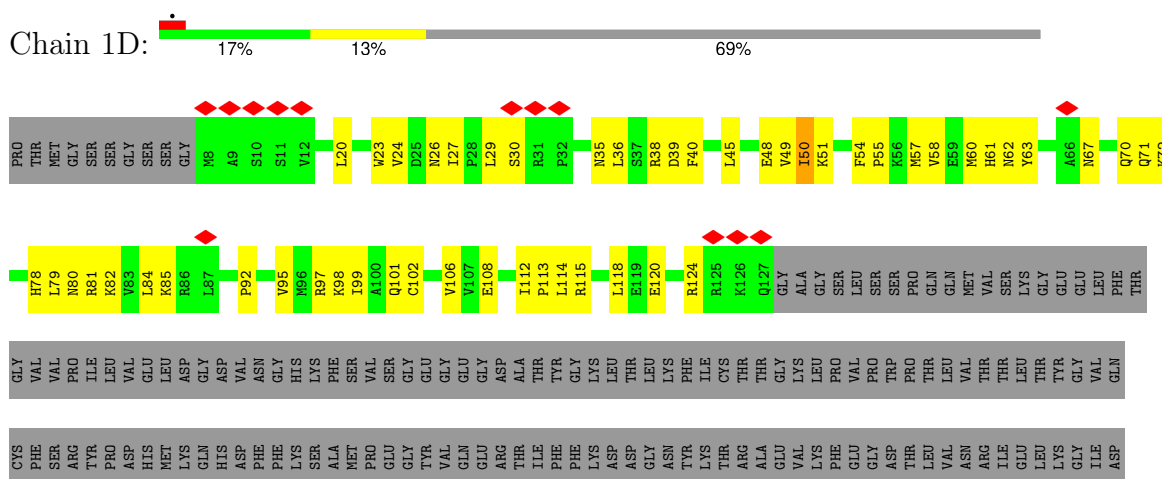


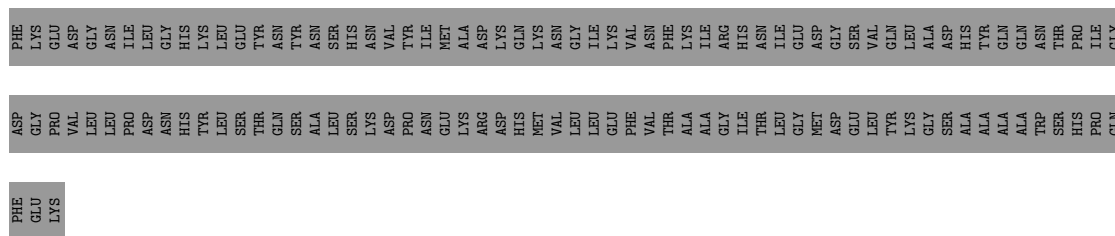
HIS	PRO	GLN	PHE	GLU	LYS	GLY	VAL	GLN	CYS	SER	ARG	TYR	PRO	ASN	HIS	LYS	GLN	HIS	ASP	PHE	THR	ASN	THR	LYS	PRO	MET	HIS	ALA	ASN	GLU	GLY	TYR	VAL	GLN	ASP	ARG	THR	ILE	LYS	VAL	ASP	ASN	LYS	TYR	VAL	ASP	GLY	ASP	THR	ARG	ALA	GLU	VAL	LYS	THR	ASP	PHE	GLU	GLY	ASP	THR	LEU	VAL	ASN	ARG	ILE	GLN	GLU	LEU	ASN	THR
						PRO	ILE	GLY	ASP	PHE	LYS	GLU	ASP	GLY	ASN	HIS	LYS	LEU	GLU	TYR	ASN	THR	ASN	SER	HIS	ASN	VAL	THR	ILE	MET	ALA	ASP	LYS	GLN	LYS	ILE	GLY	ASP	LYS	VAL	ASN	PHE	ASN	GLY	VAL	GLU	ASP	ILE	ARG	HIS	ASN	ILE	GLY	MET	ASP	GLY	SER	GLU	VAL	GLN	LEU	ALA	ASP	GLY	ALA	SER	GLY	ALA	ALA	ALA	ALA

- Molecule 1: Sperm flagellar protein 1, G protein/GFP fusion protein

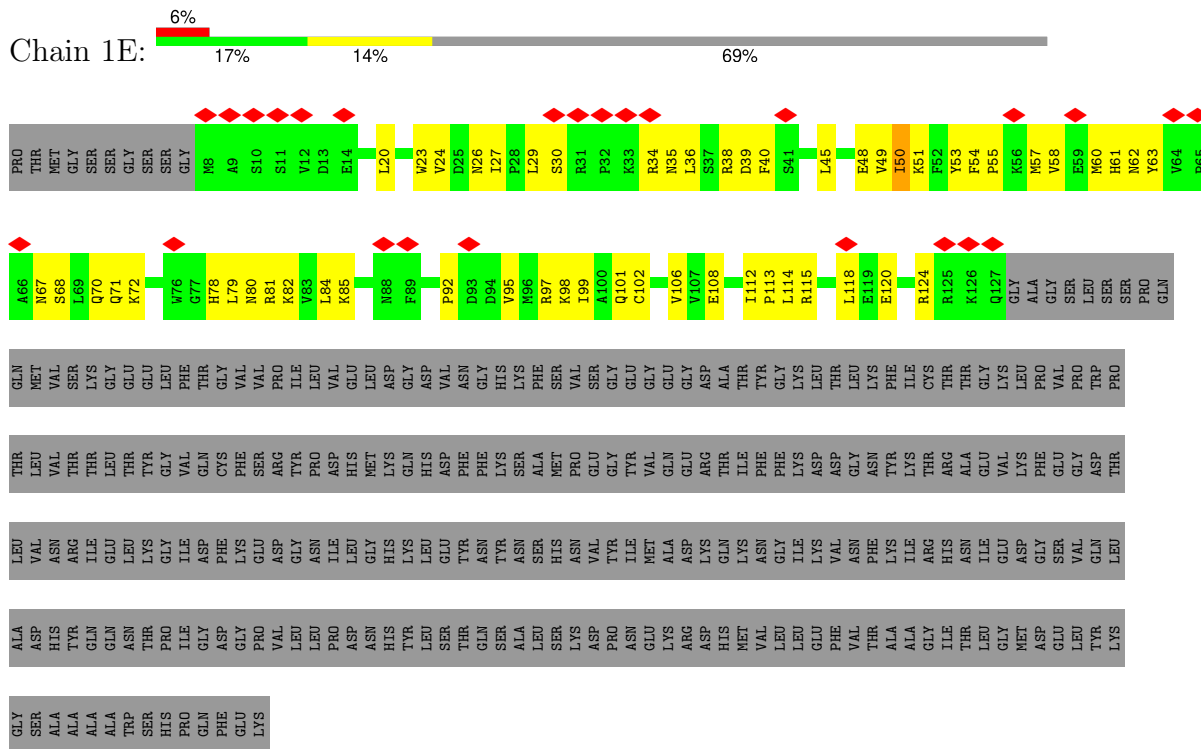


- Molecule 1: Sperm flagellar protein 1, G protein/GFP fusion protein

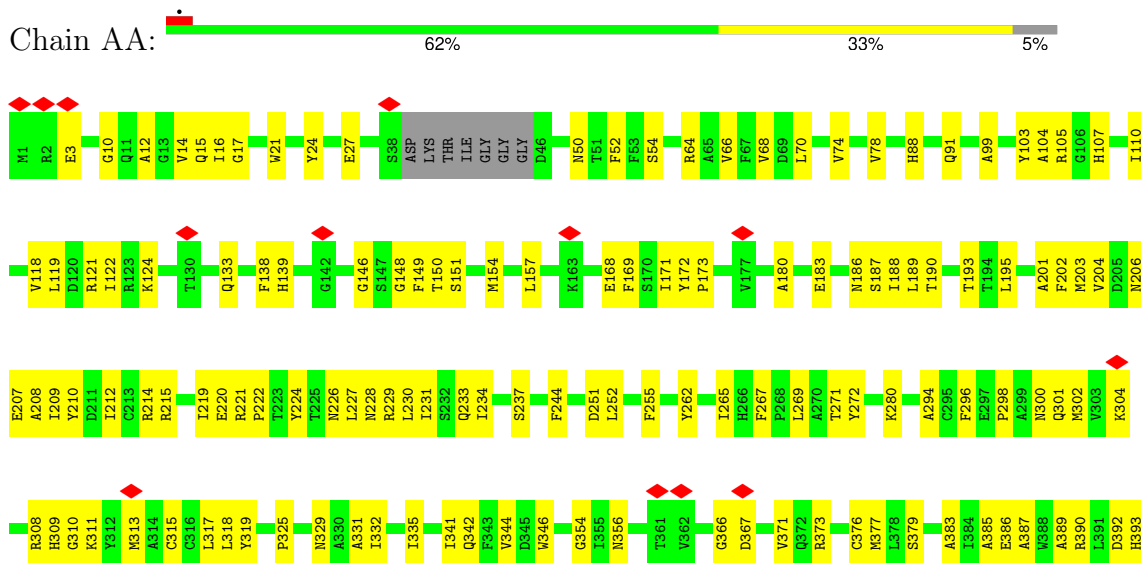




- Molecule 1: Sperm flagellar protein 1, G protein/GFP fusion protein

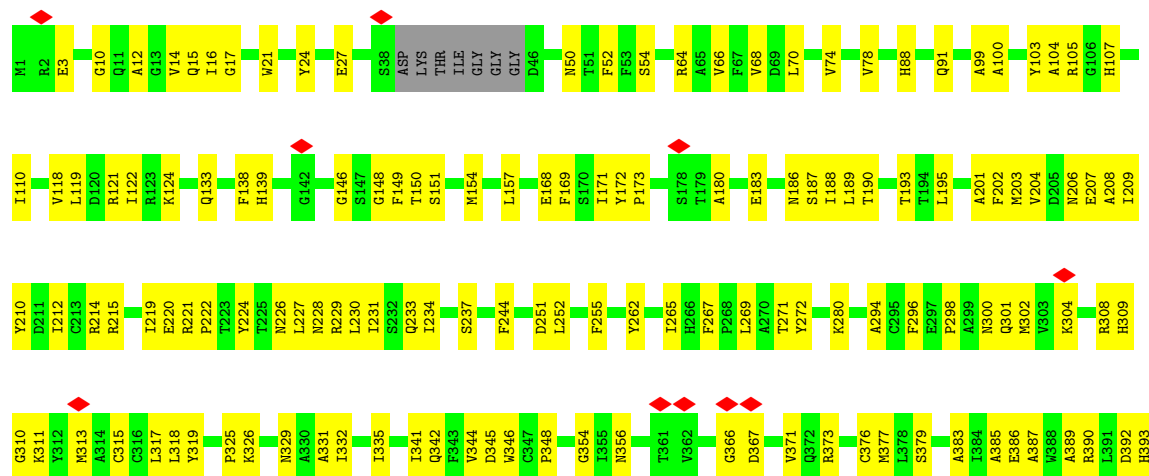


- Molecule 2: Tubulin alpha-1B chain

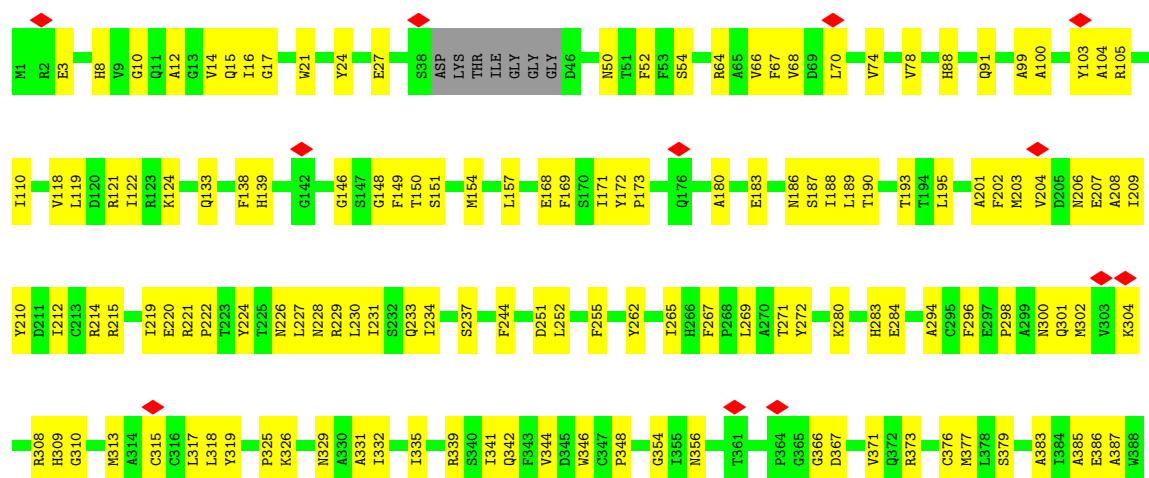




• Molecule 2: Tubulin alpha-1B chain



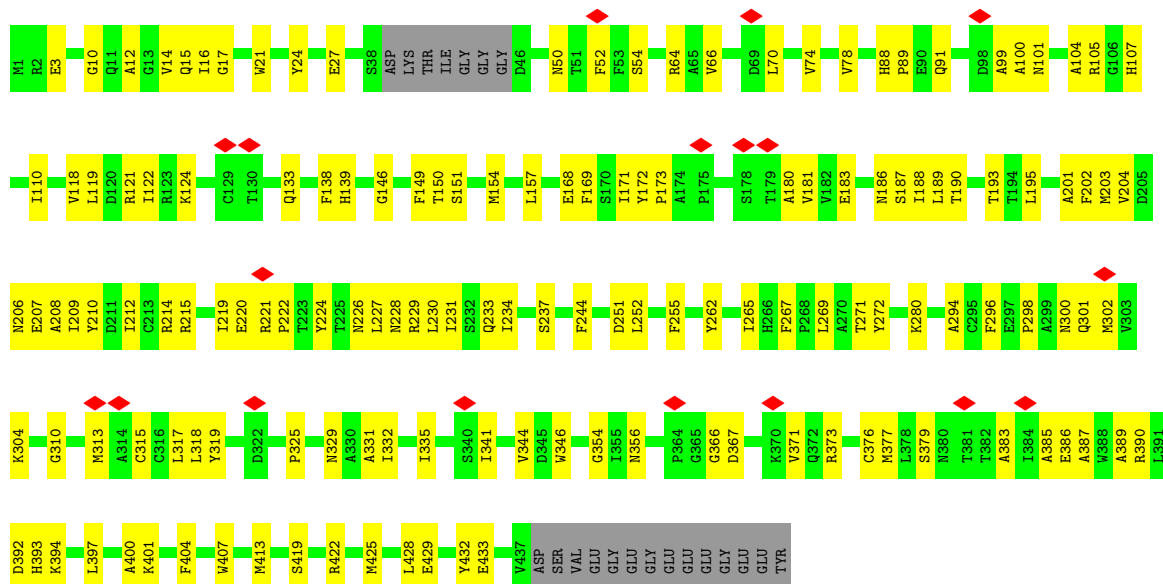
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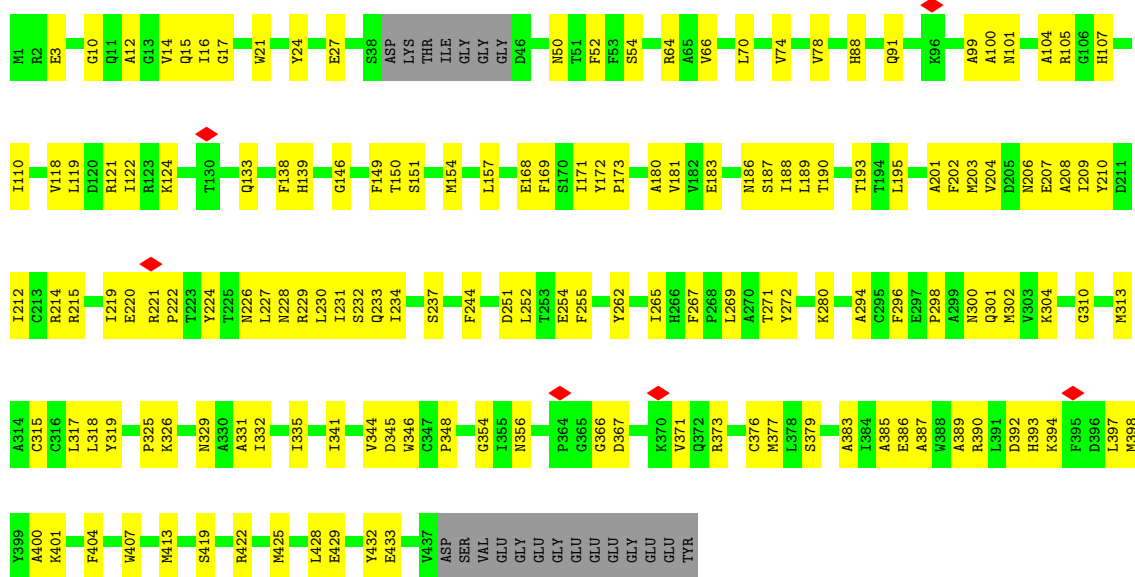
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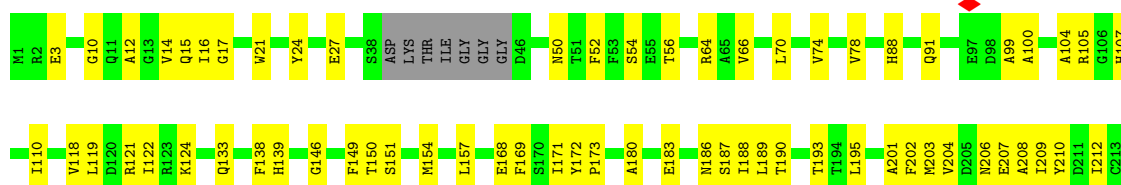




• Molecule 2: Tubulin alpha-1B chain



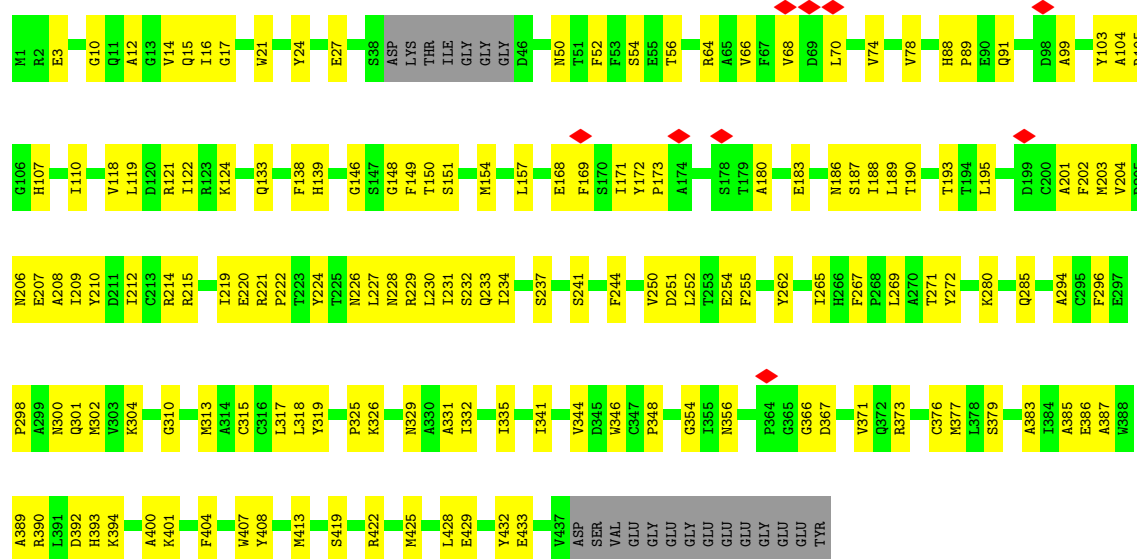
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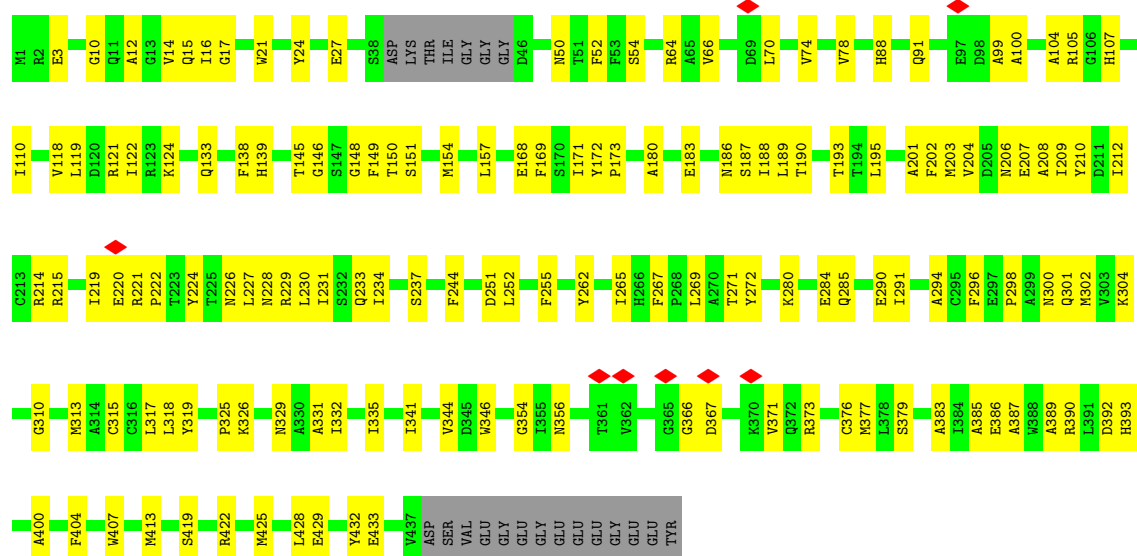




• Molecule 2: Tubulin alpha-1B chain

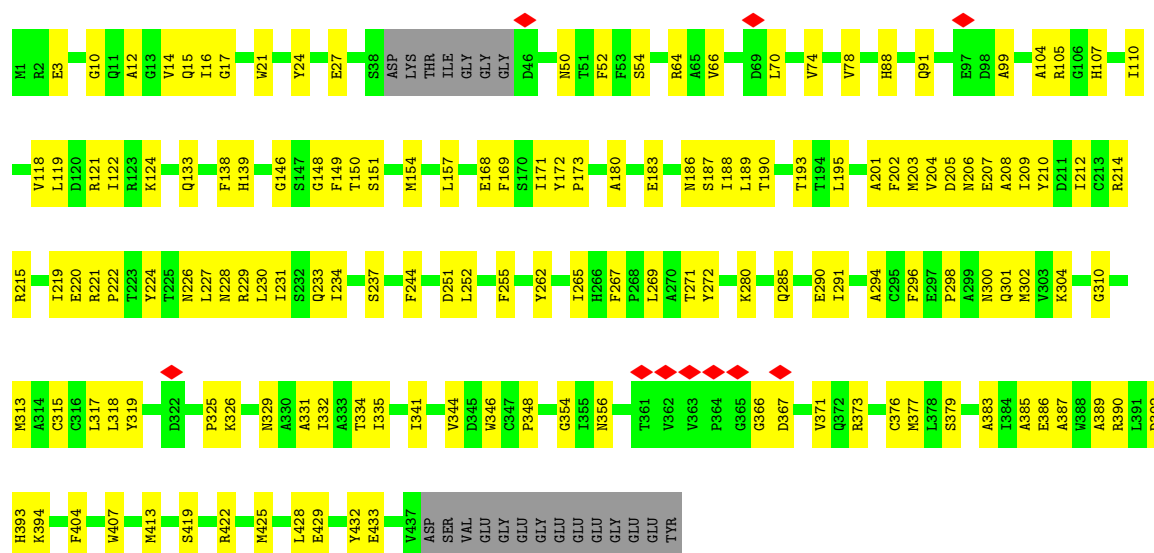


• Molecule 2: Tubulin alpha-1B chain

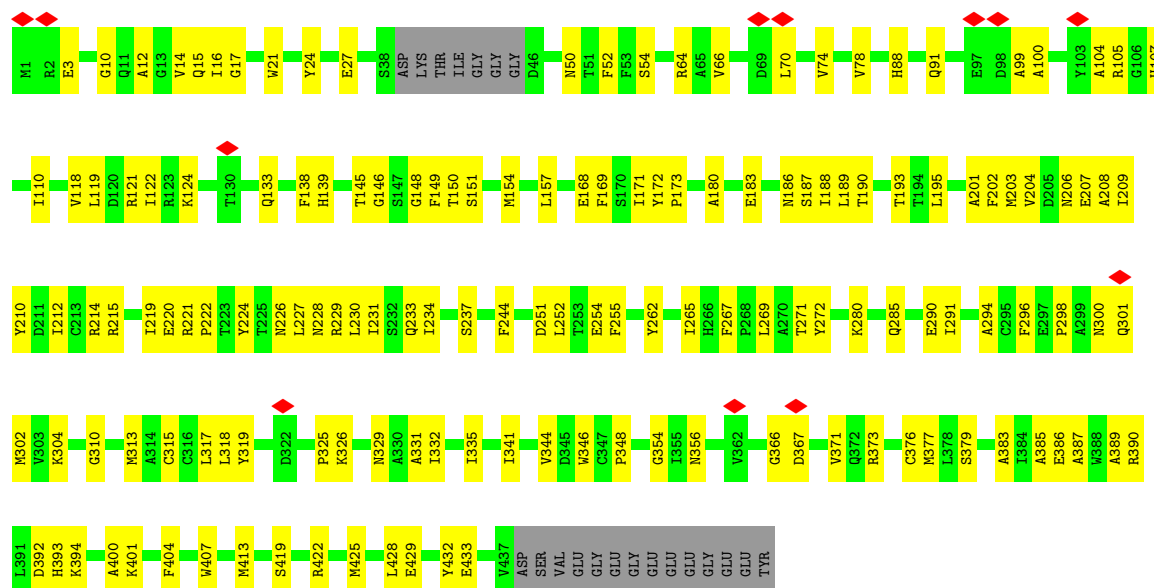


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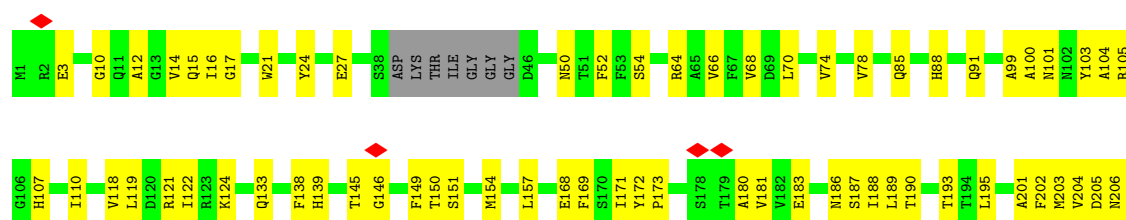


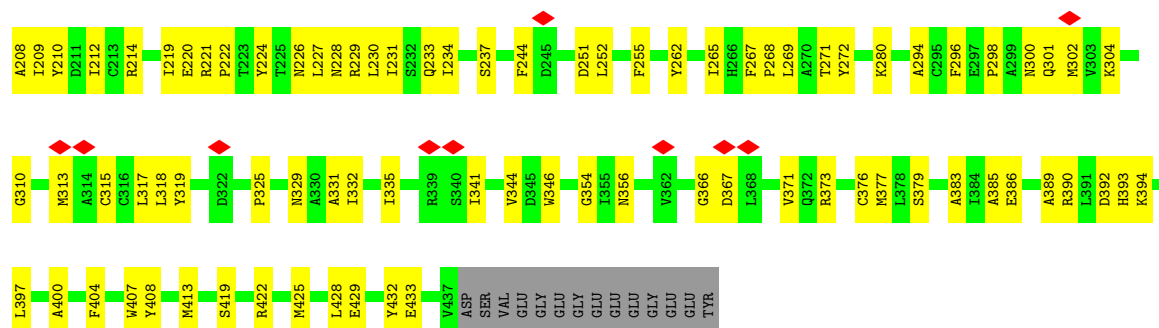


• Molecule 2: Tubulin alpha-1B chain



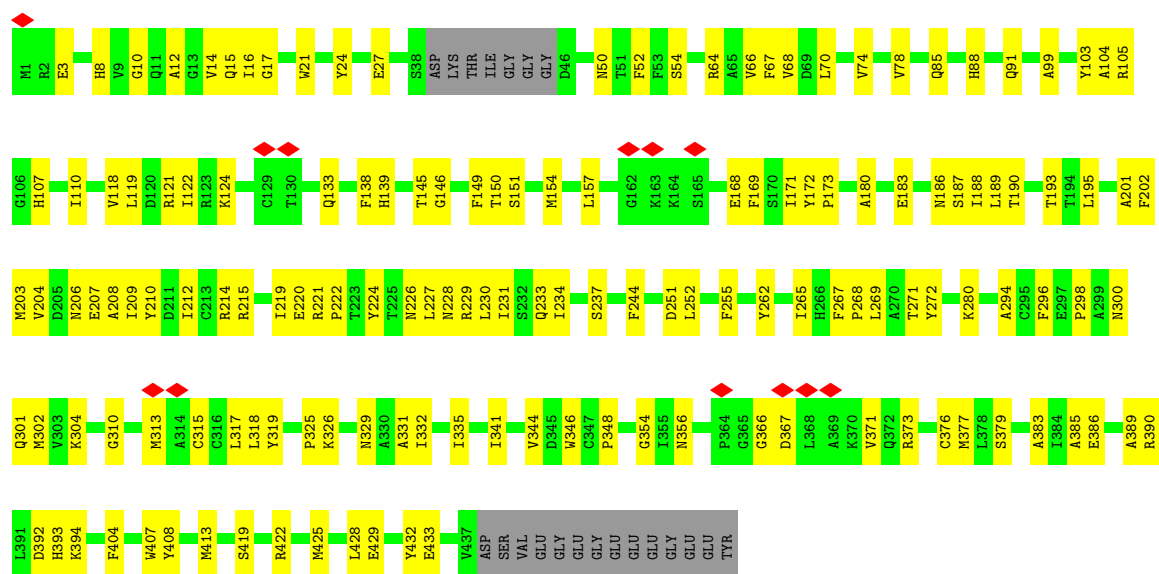
• Molecule 2: Tubulin alpha-1B chain





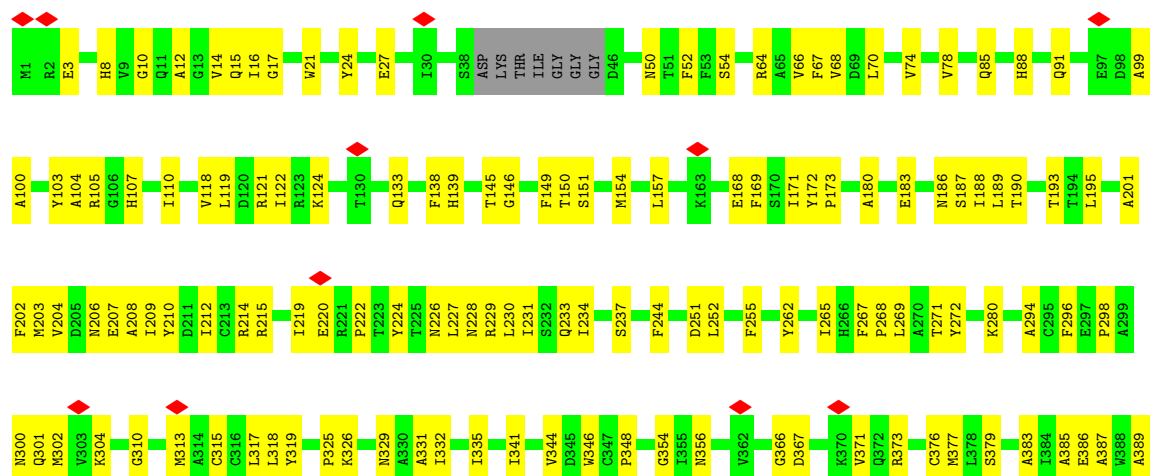
### • Molecule 2: Tubulin alpha-1B chain

Chain EC: 63% 33% 5%



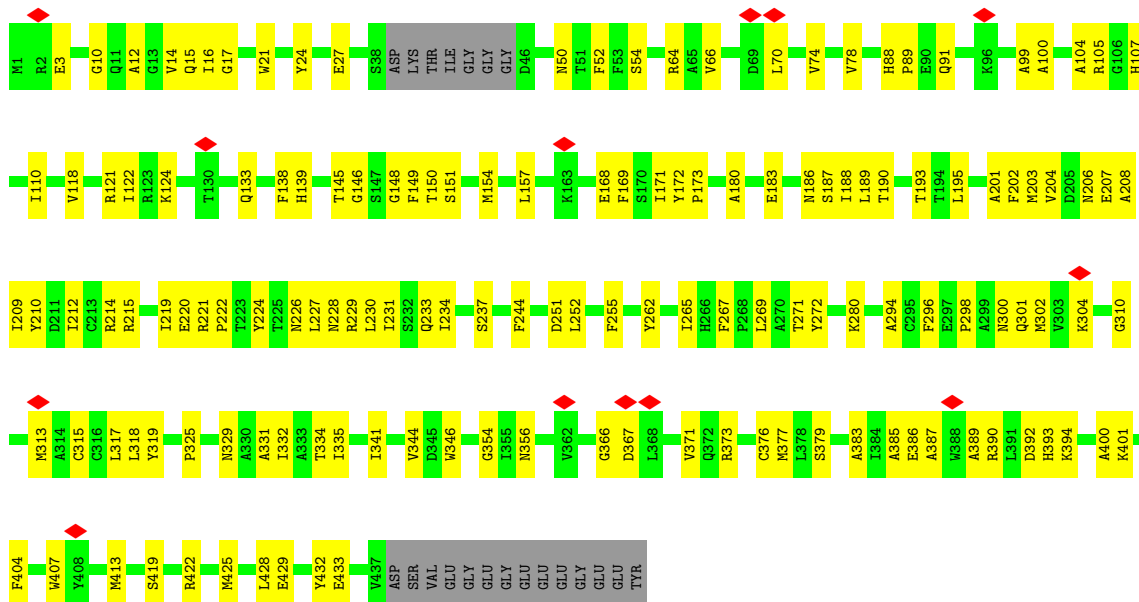
### • Molecule 2: Tubulin alpha-1B chain

Chain EE: 61% 34% 5%

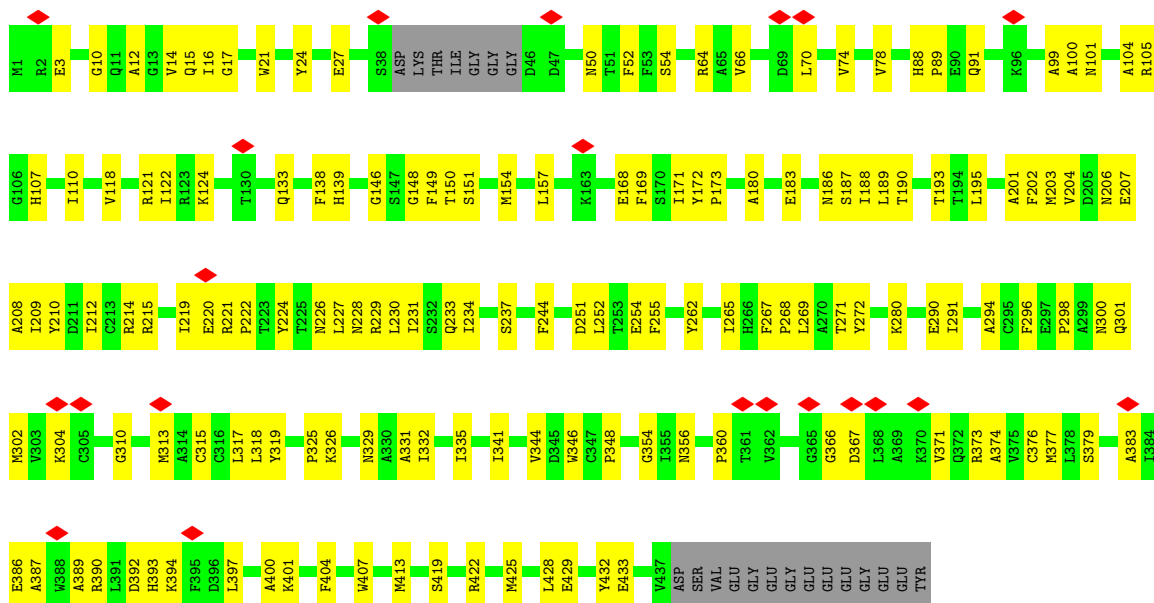




• Molecule 2: Tubulin alpha-1B chain



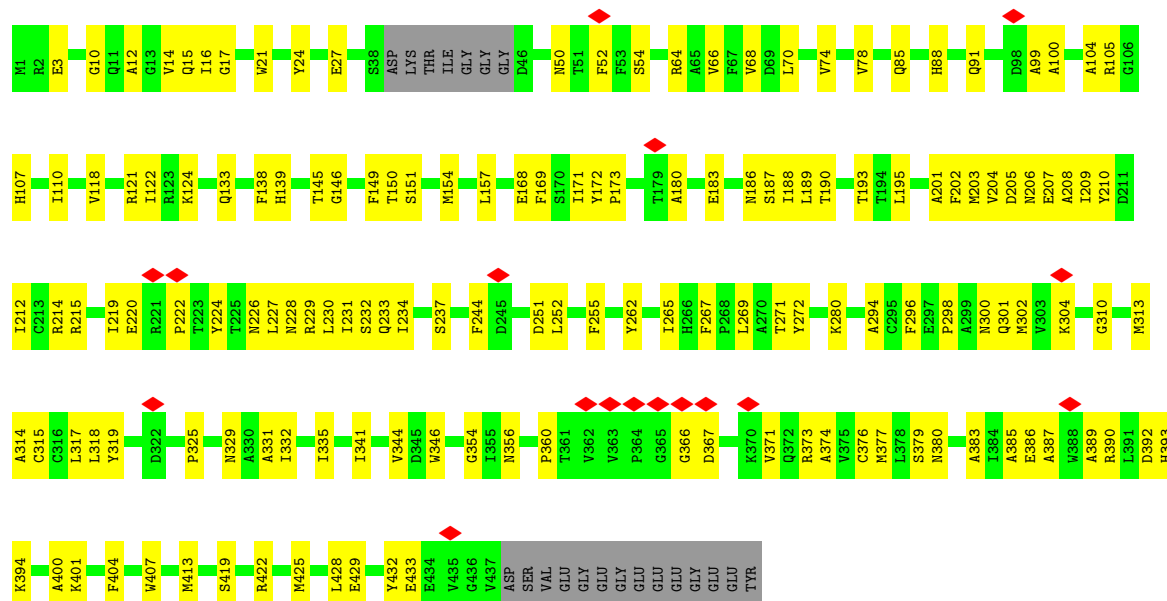
• Molecule 2: Tubulin alpha-1B chain



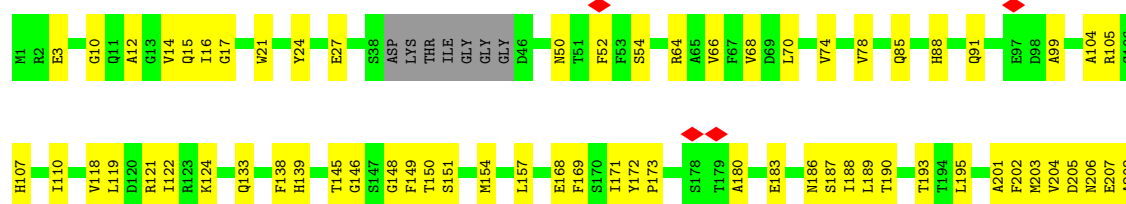
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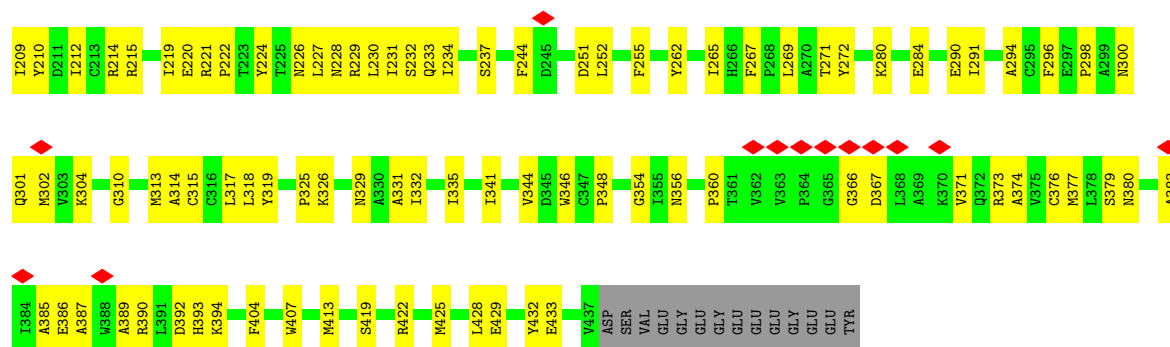


- Molecule 2: Tubulin alpha-1B chain

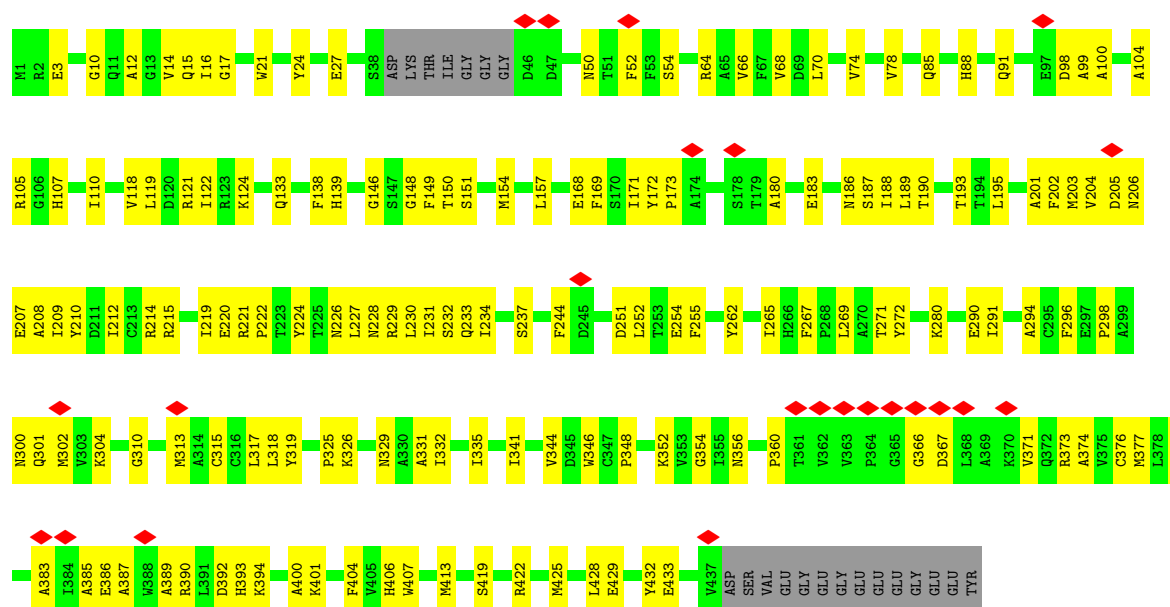


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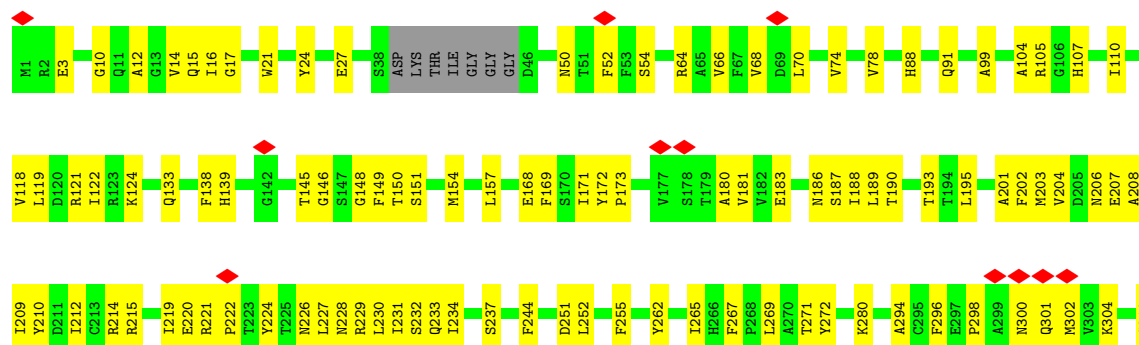




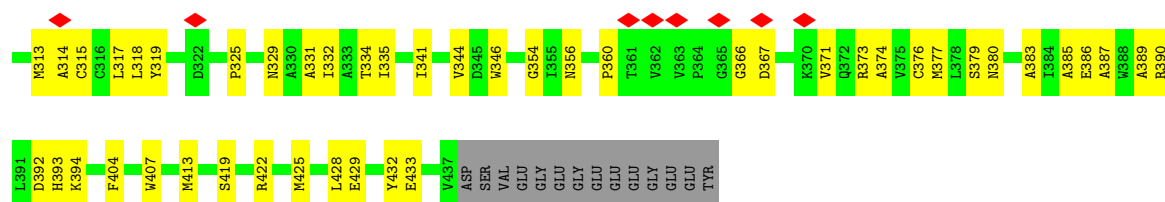
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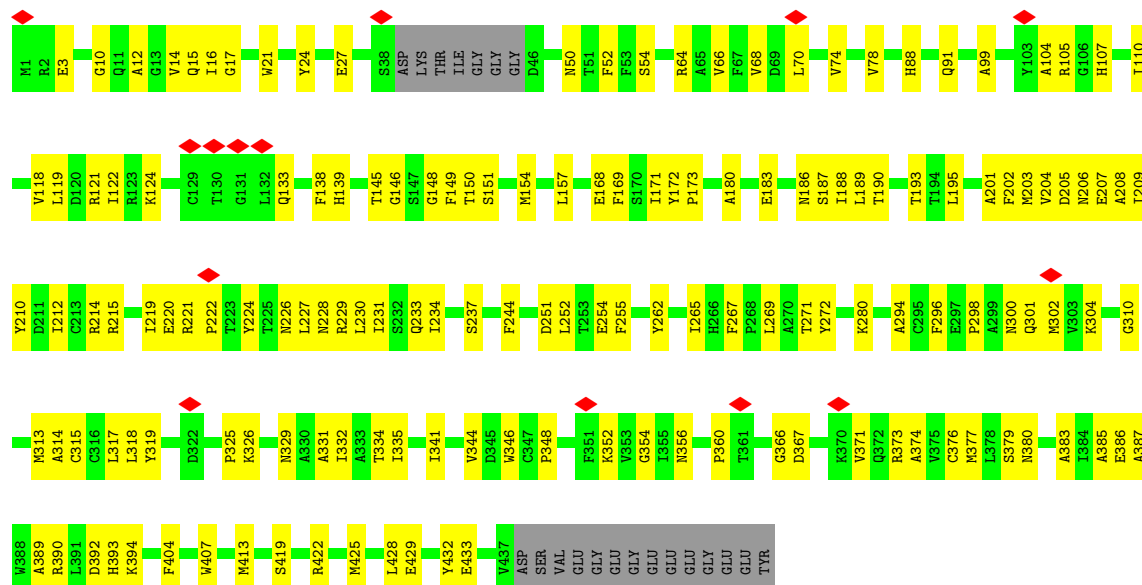
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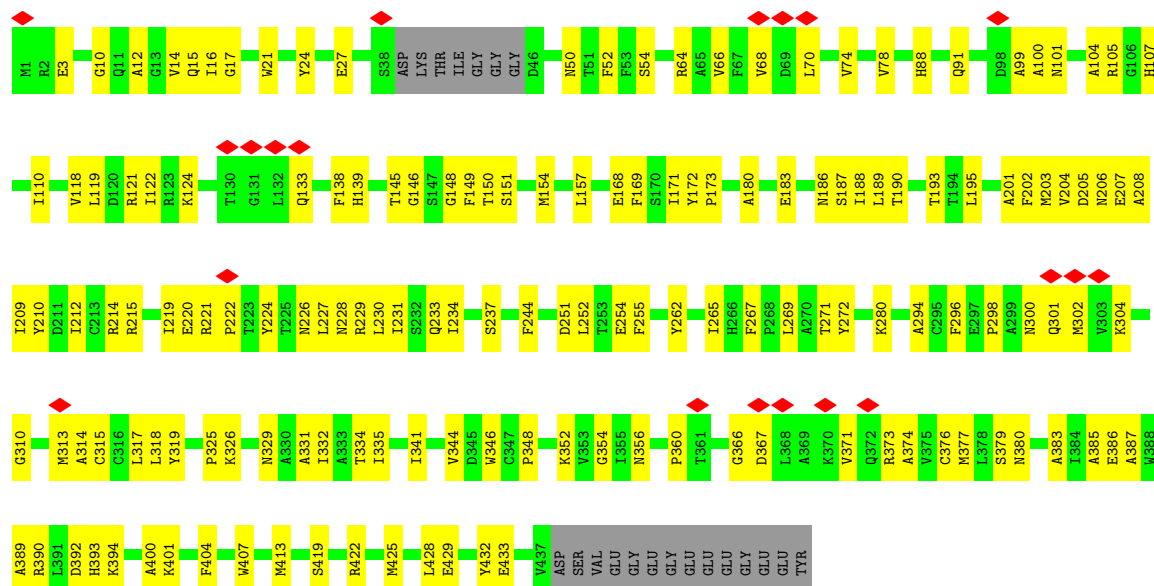




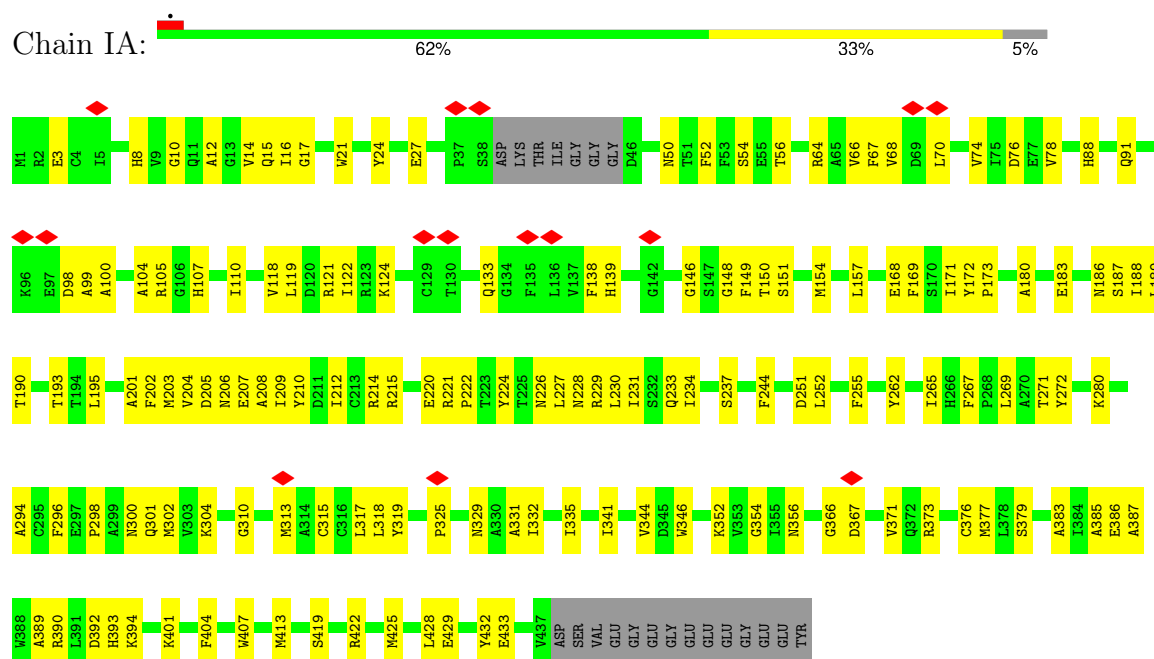
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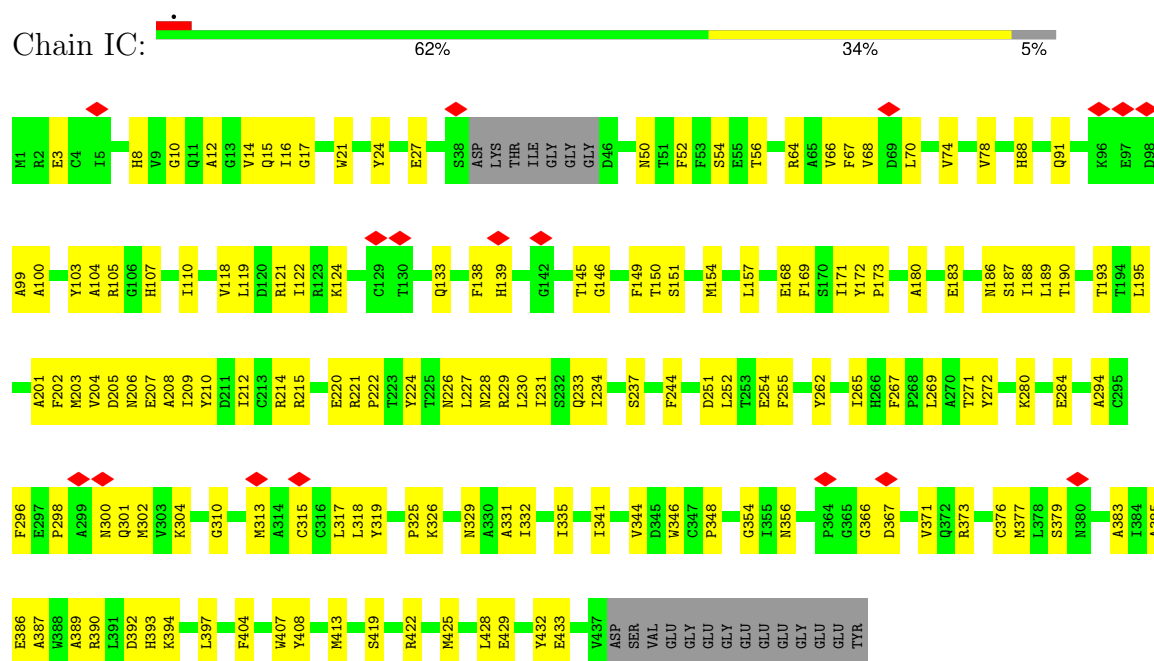
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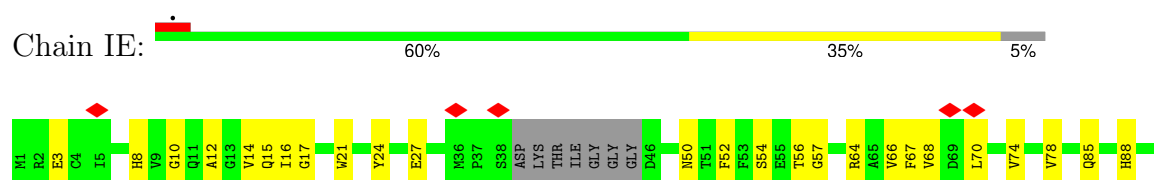
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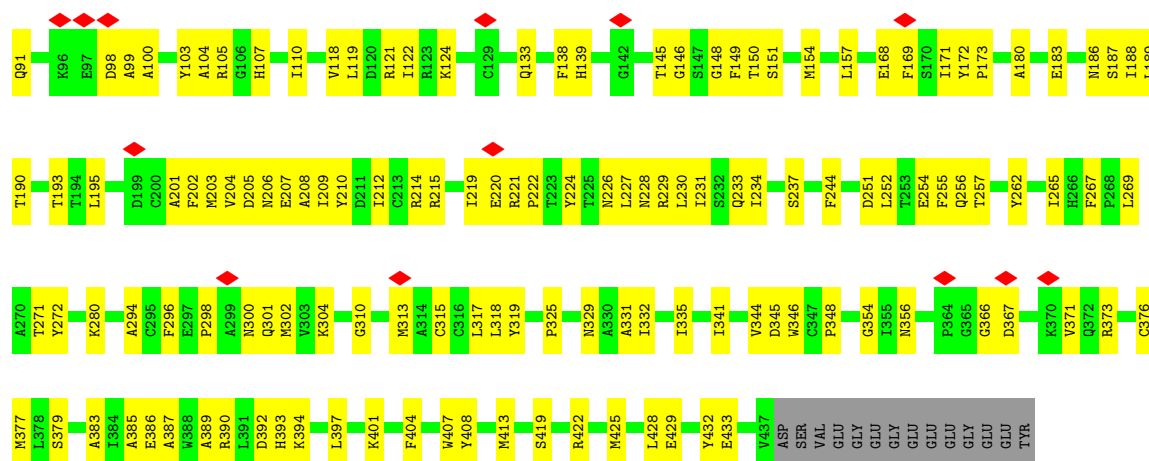


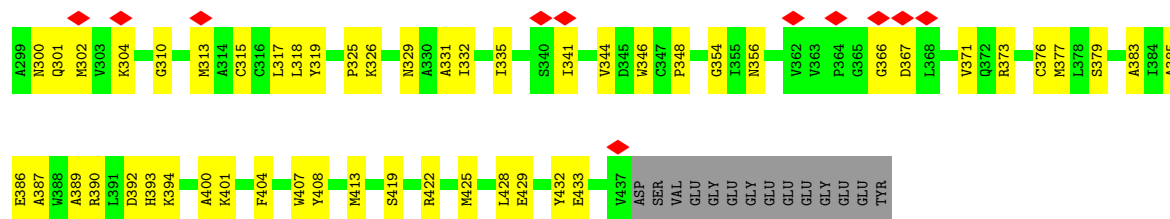
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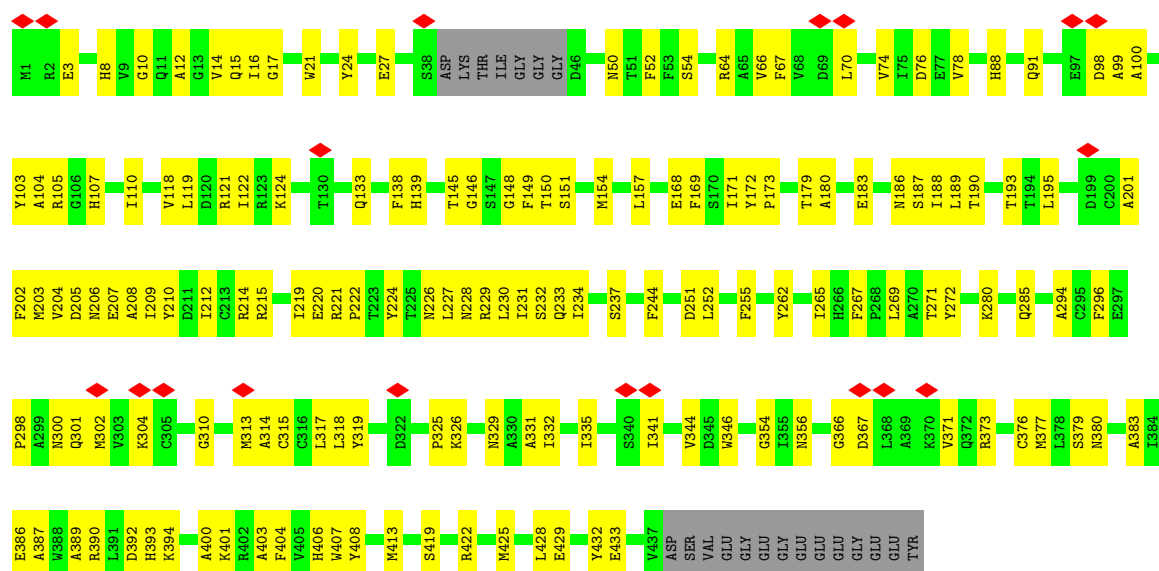
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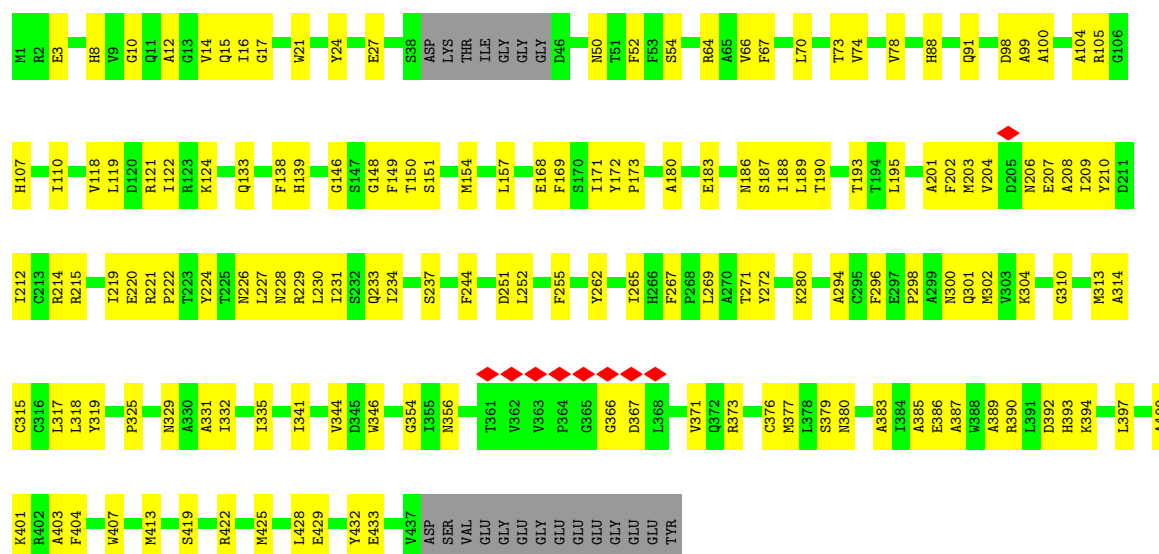




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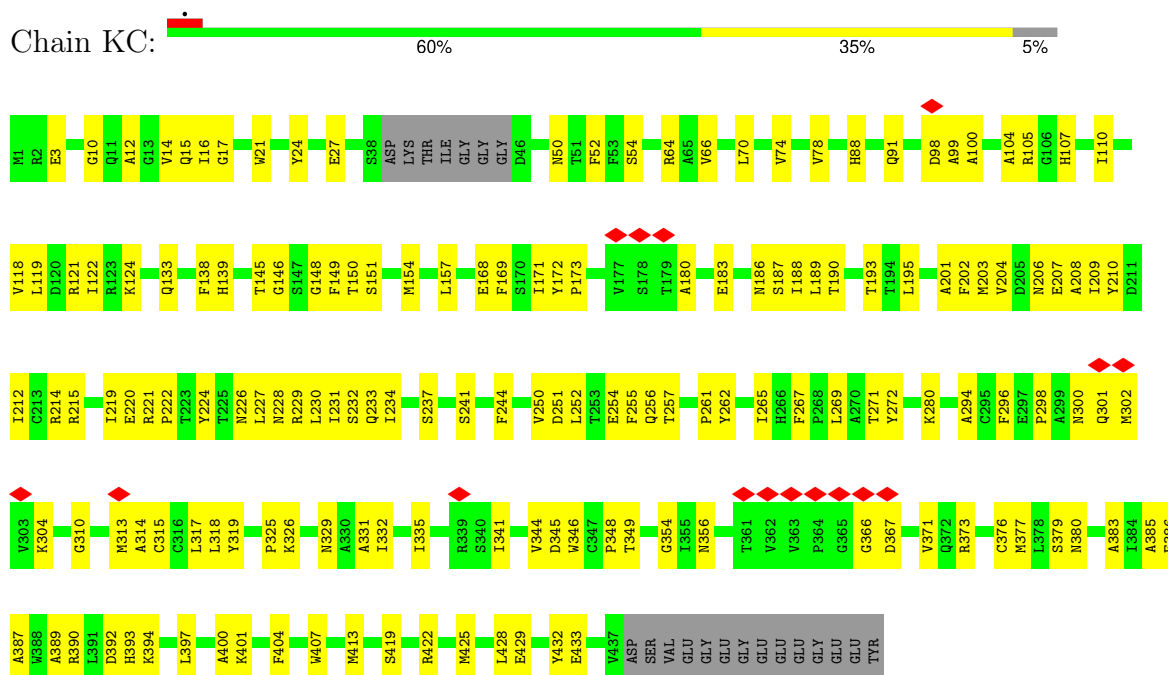


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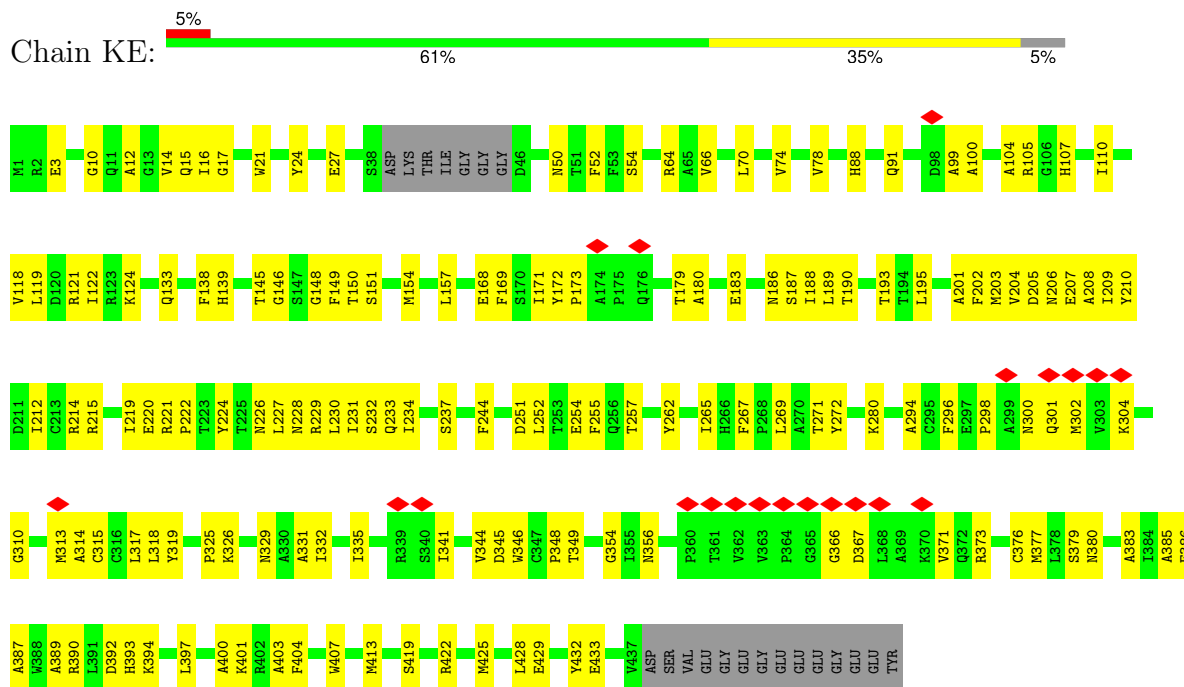
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Chain KC:



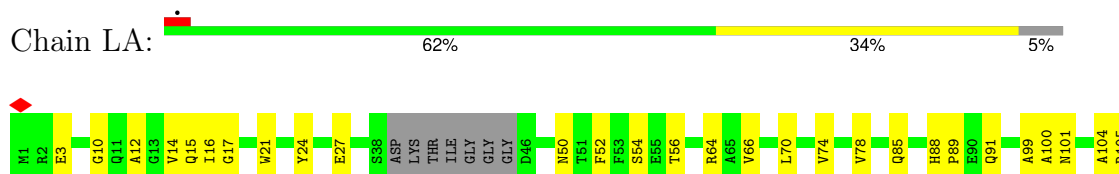
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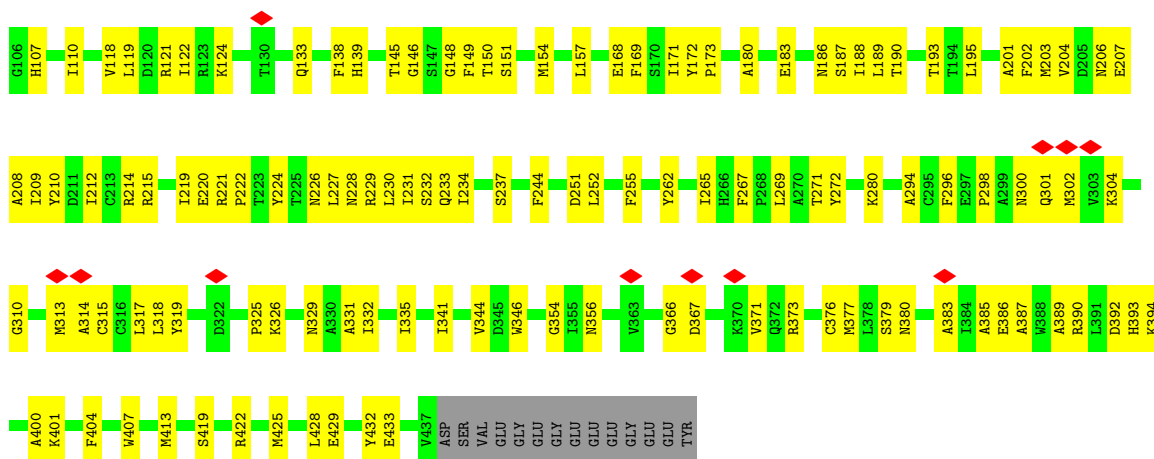
Chain KE:



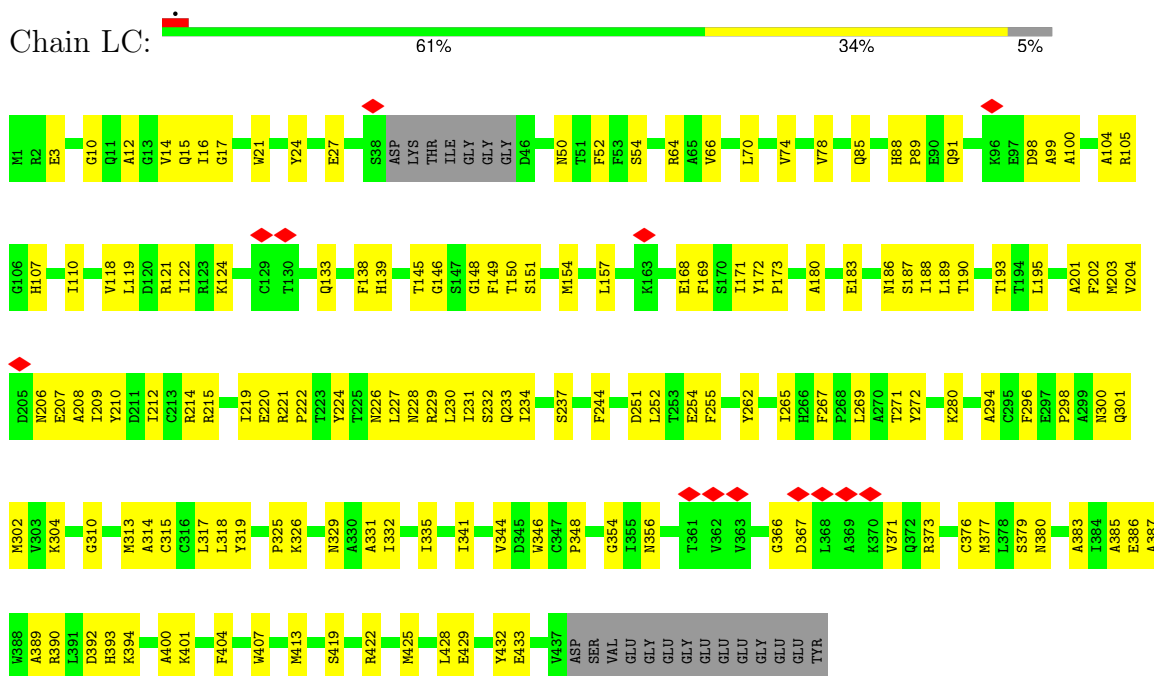
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Chain LA:

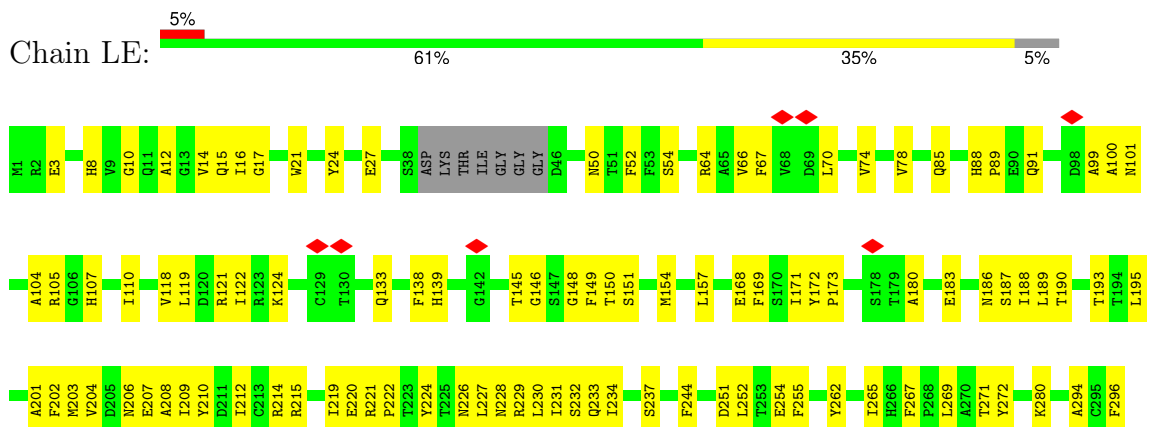


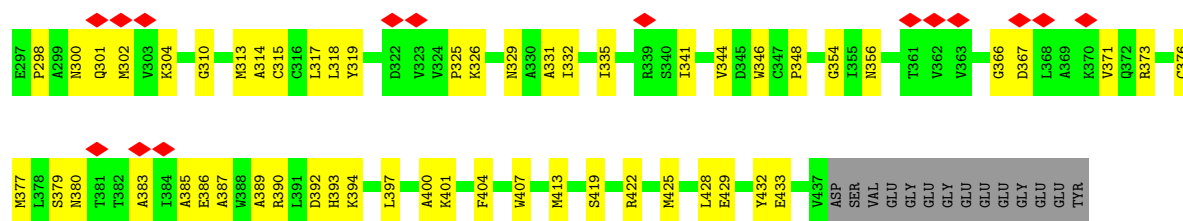


• Molecule 2: Tubulin alpha-1B chain



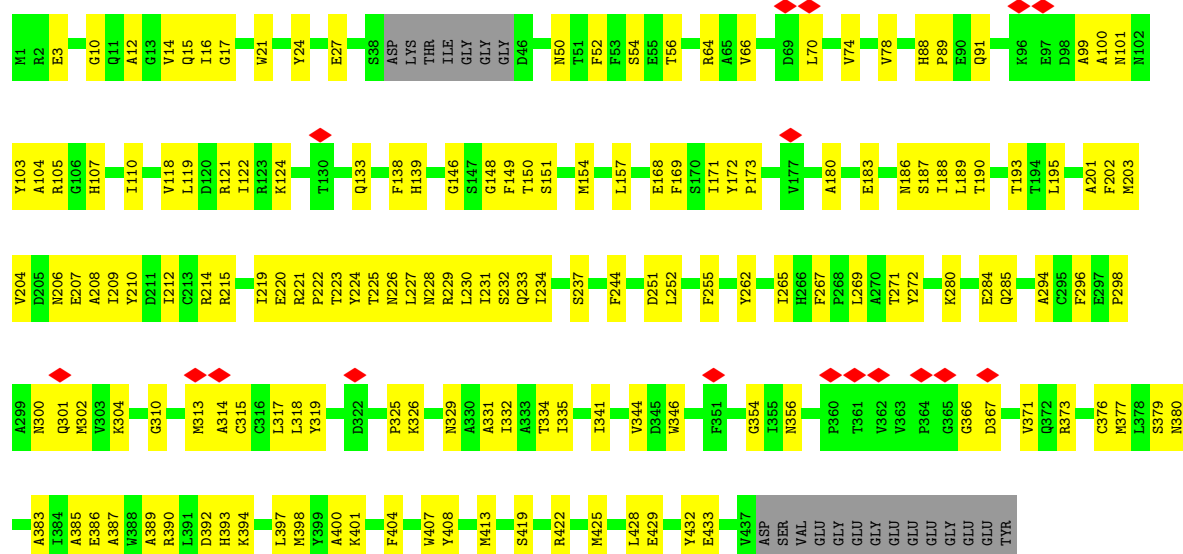
• Molecule 2: Tubulin alpha-1B chain





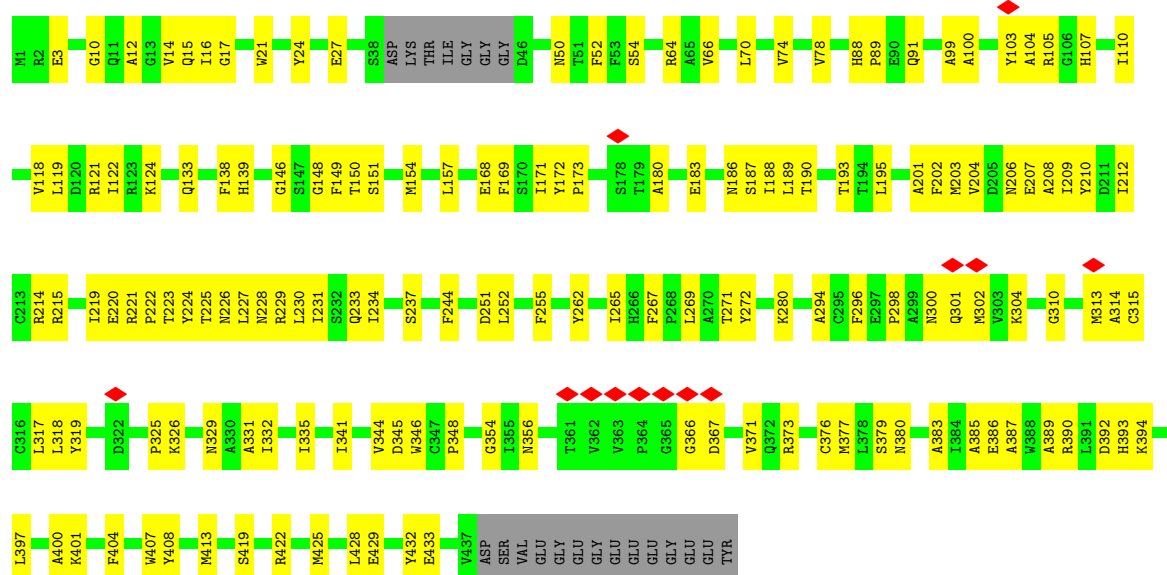
• Molecule 2: Tubulin alpha-1B chain

Chain MA: 60% 35% 5%

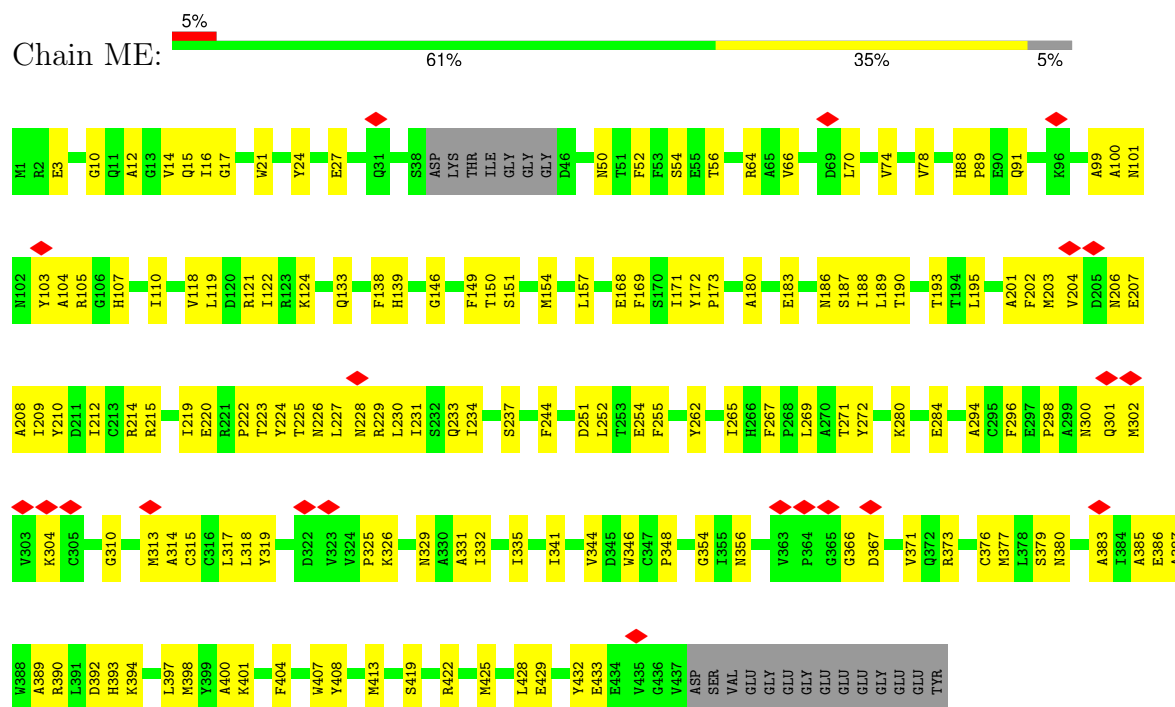


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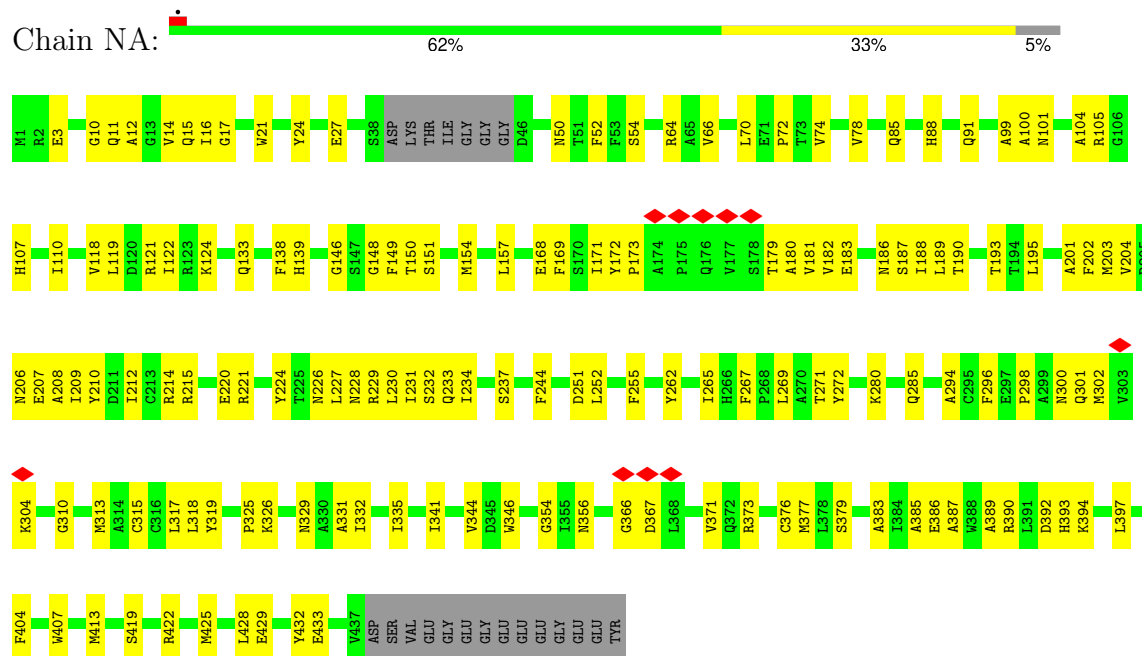
Chain MC: 61% 34% 5%



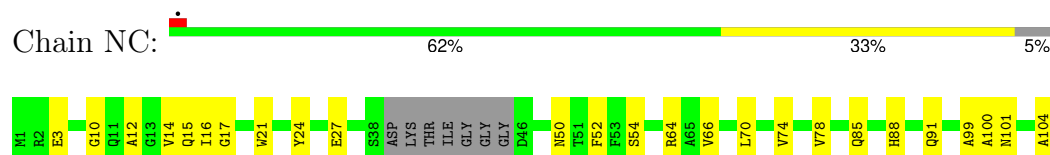
- Molecule 2: Tubulin alpha-1B chain



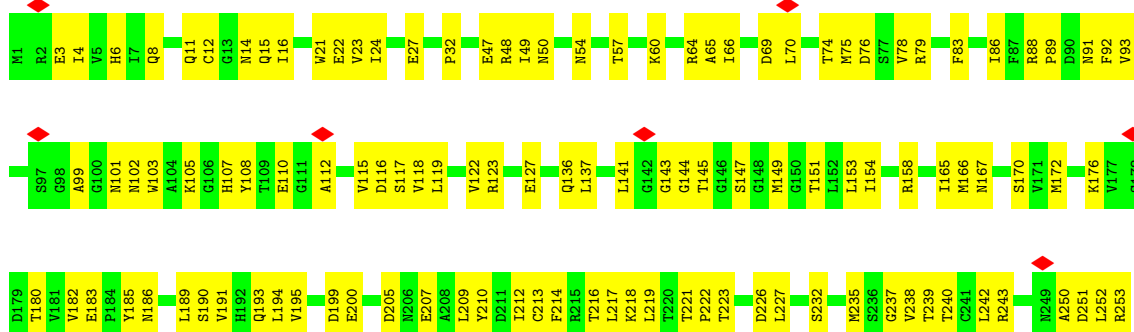
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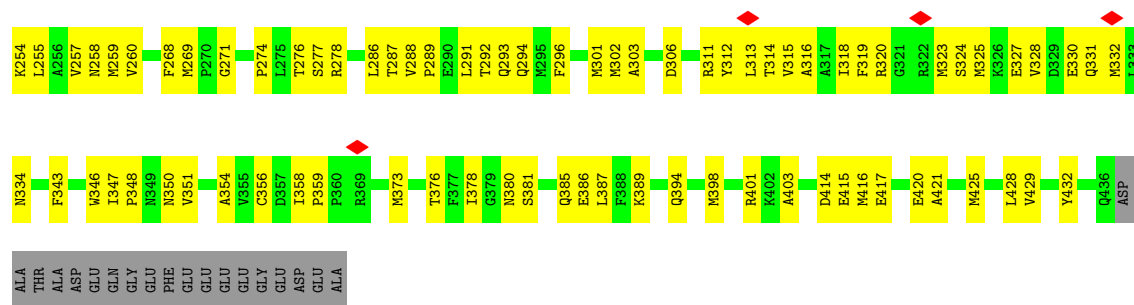


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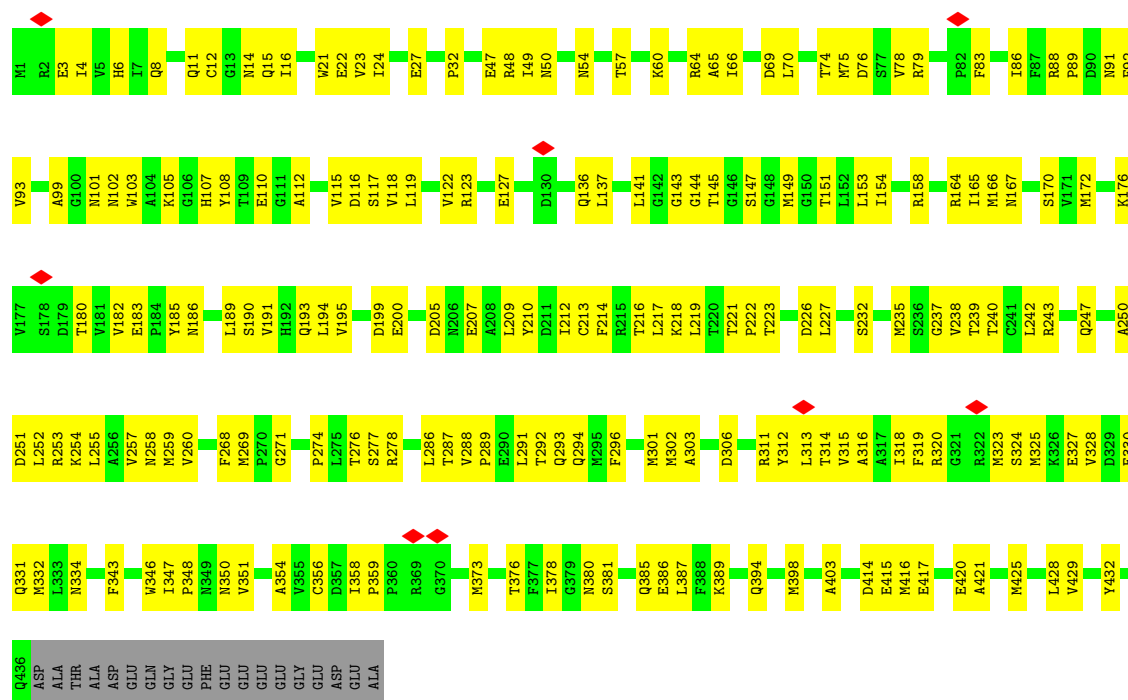




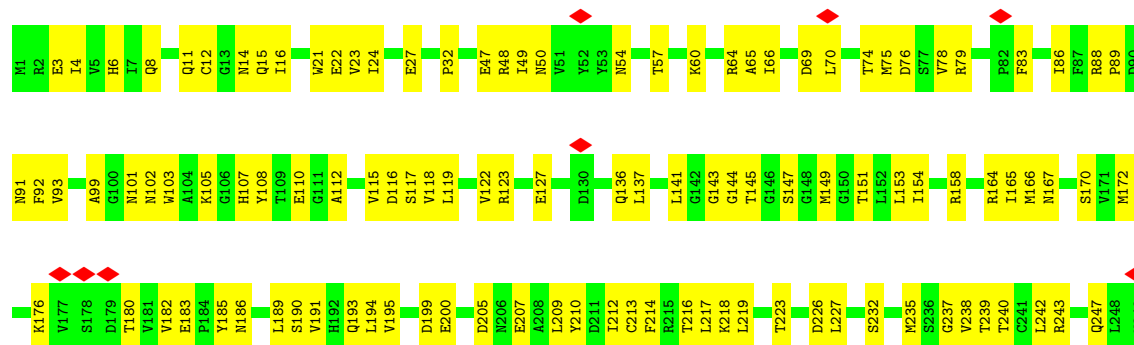




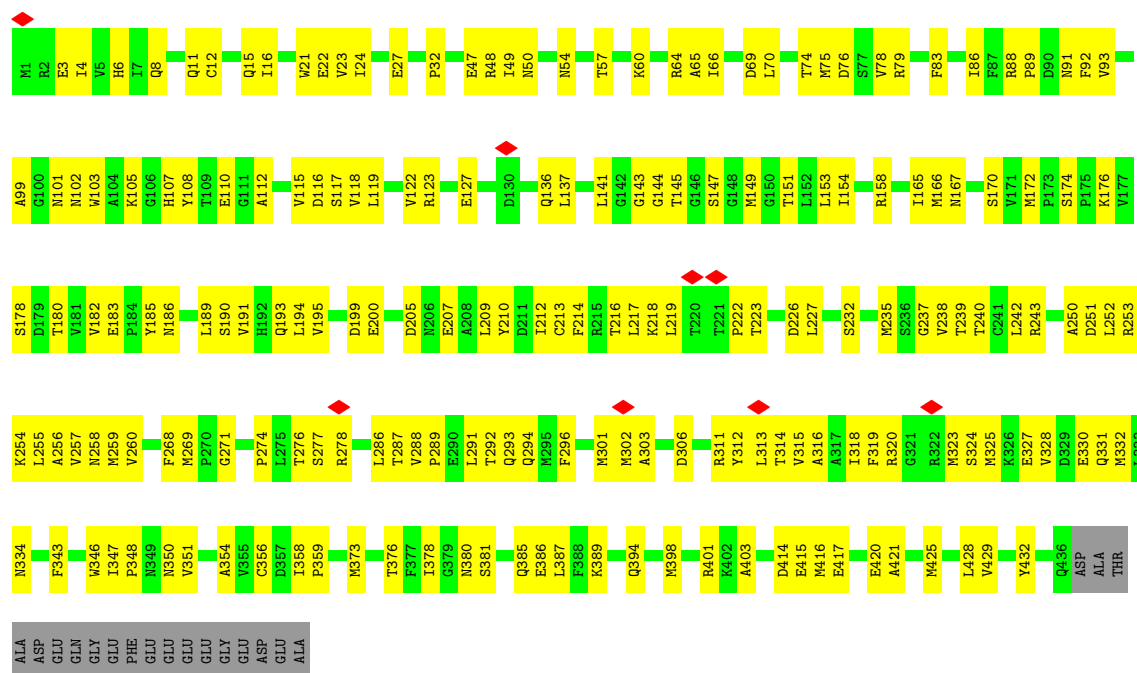
• Molecule 3: Tubulin beta chain



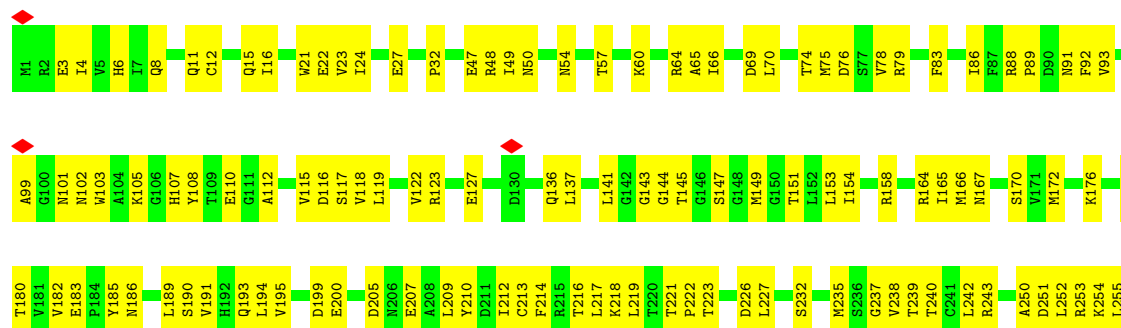
• Molecule 3: Tubulin beta chain

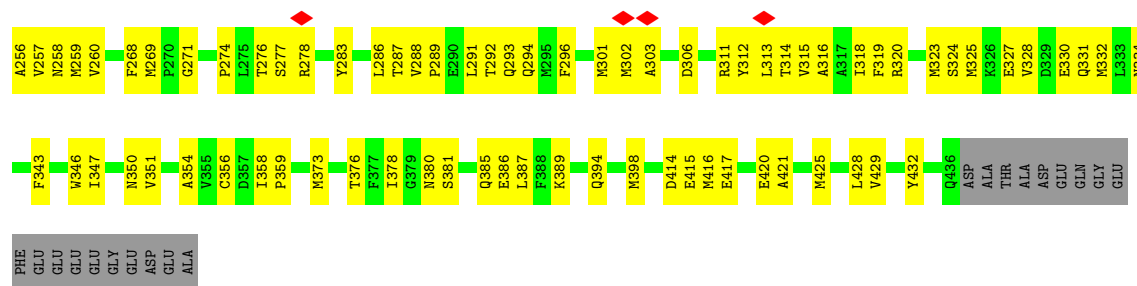


- Molecule 3: Tubulin beta chain



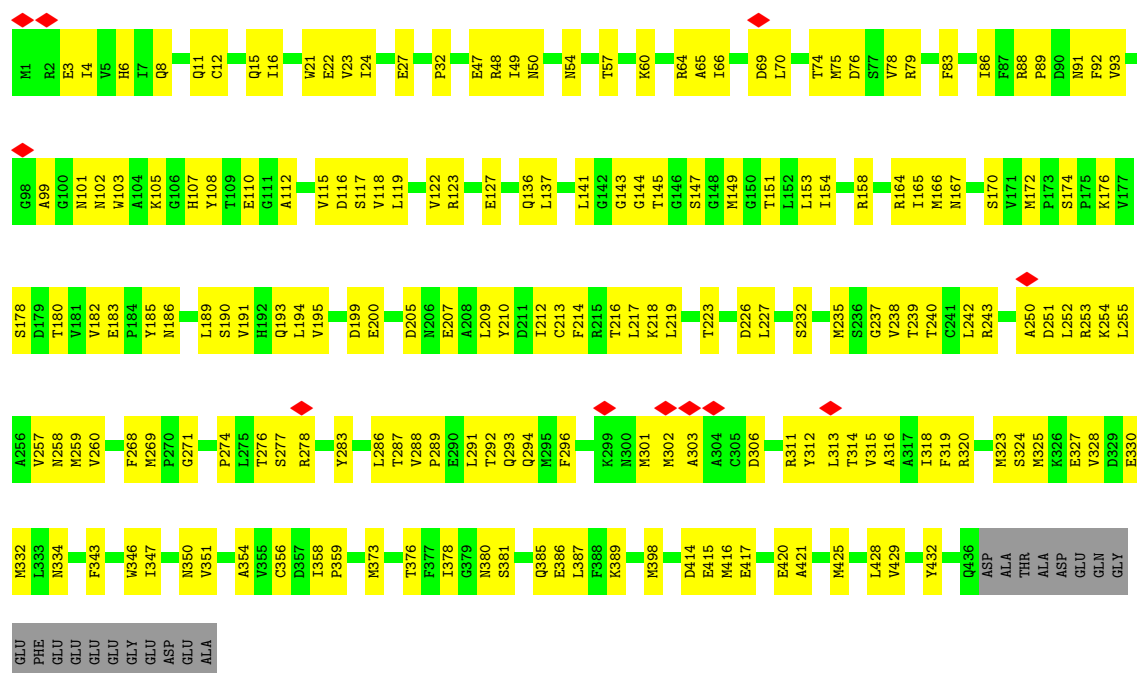
- Molecule 3: Tubulin beta chain





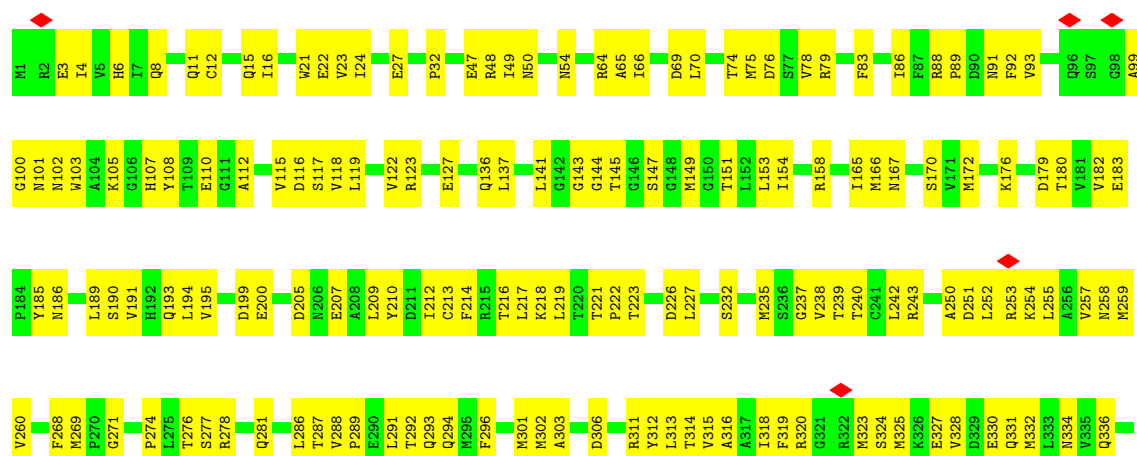
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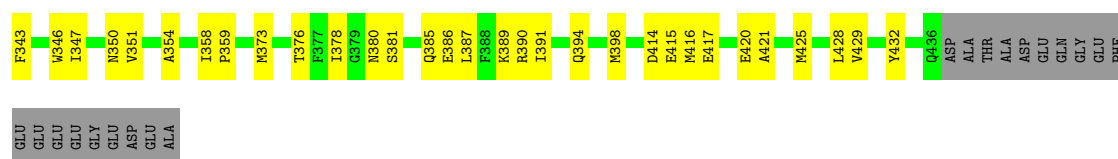
Chain BF: 53% 42%



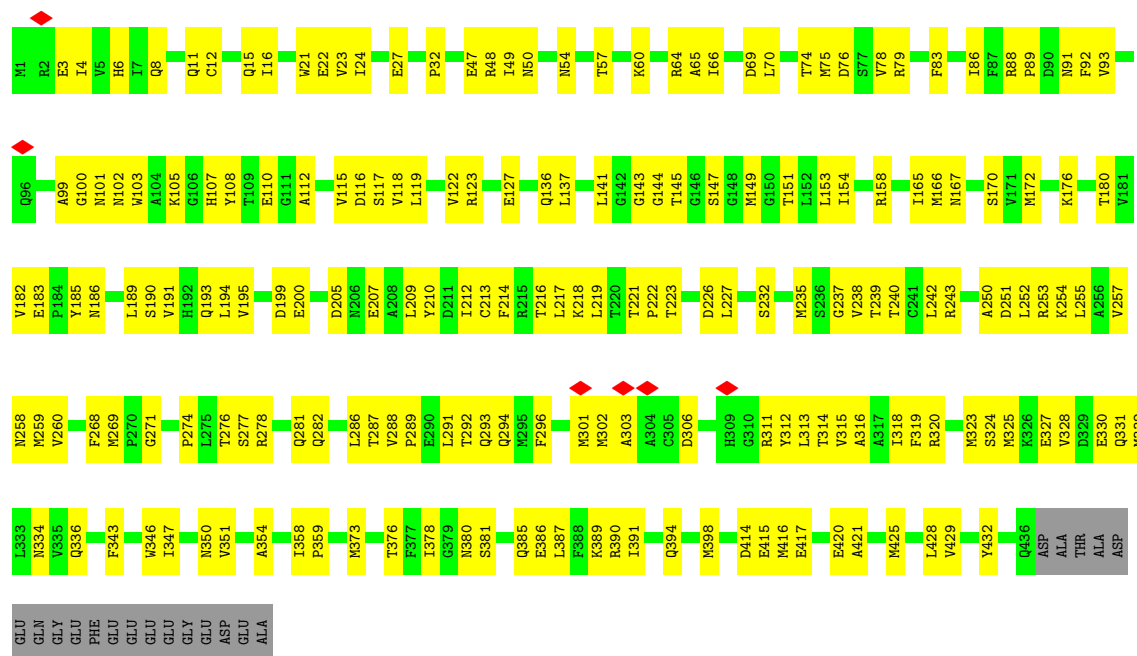
• Molecule 3: Tubulin beta chain

Chain CB: 53% 43%

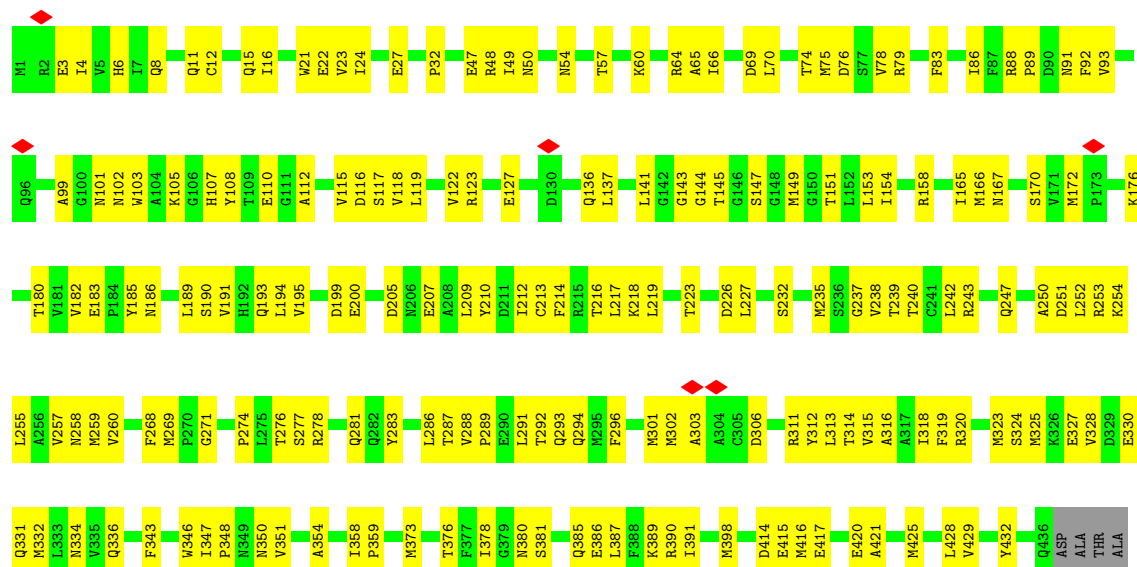




• Molecule 3: Tubulin beta chain

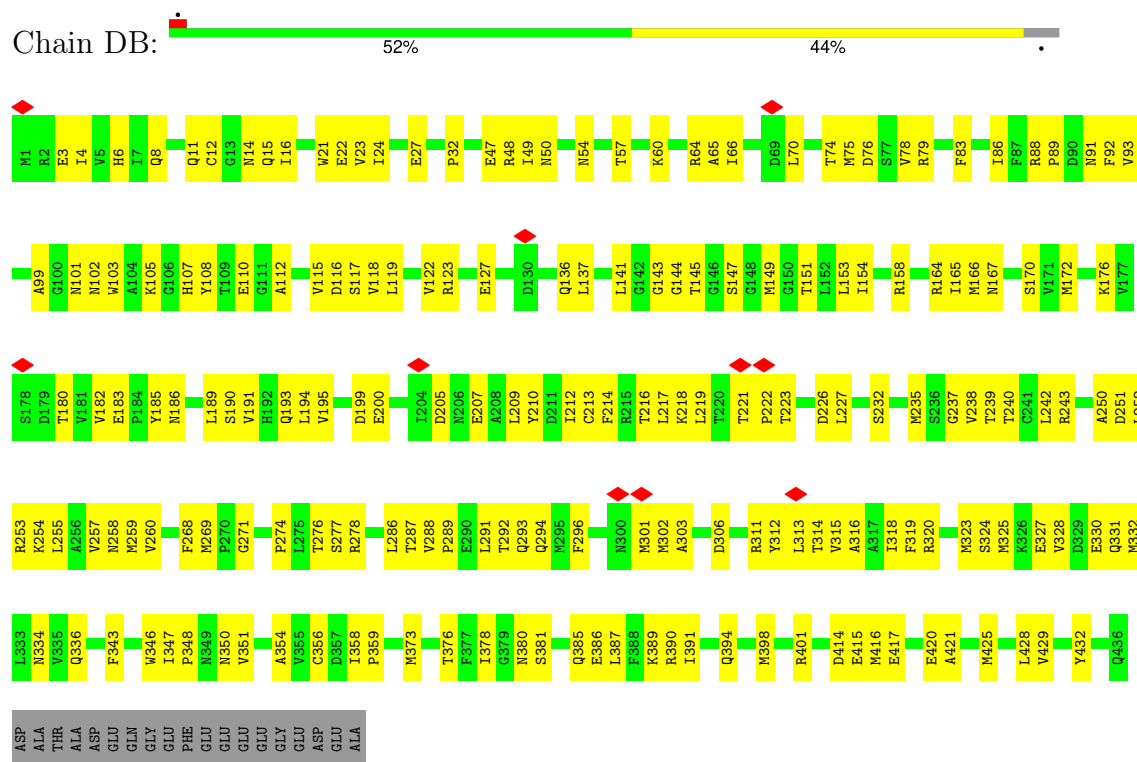


• Molecule 3: Tubulin beta chain

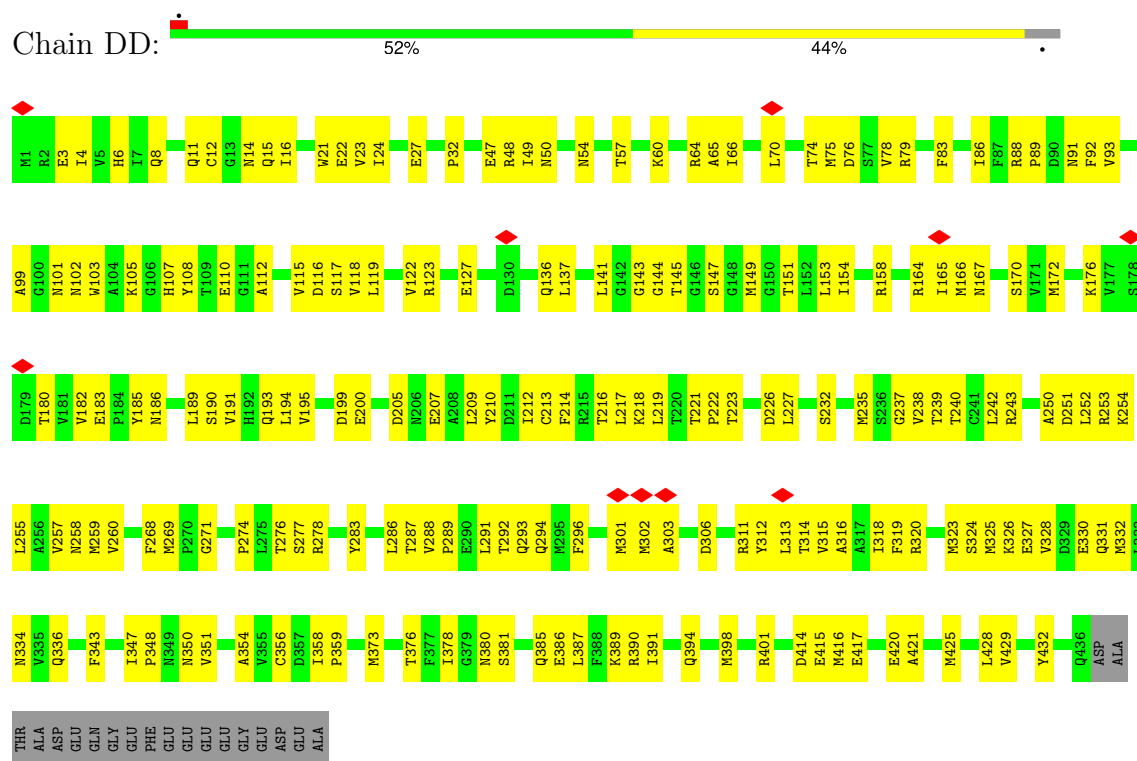


ASP  
GLU  
GLN  
GLY  
GLU  
PHE  
GLU  
GLU  
GLU  
ASP  
GLU  
ALA

• Molecule 3: Tubulin beta chain



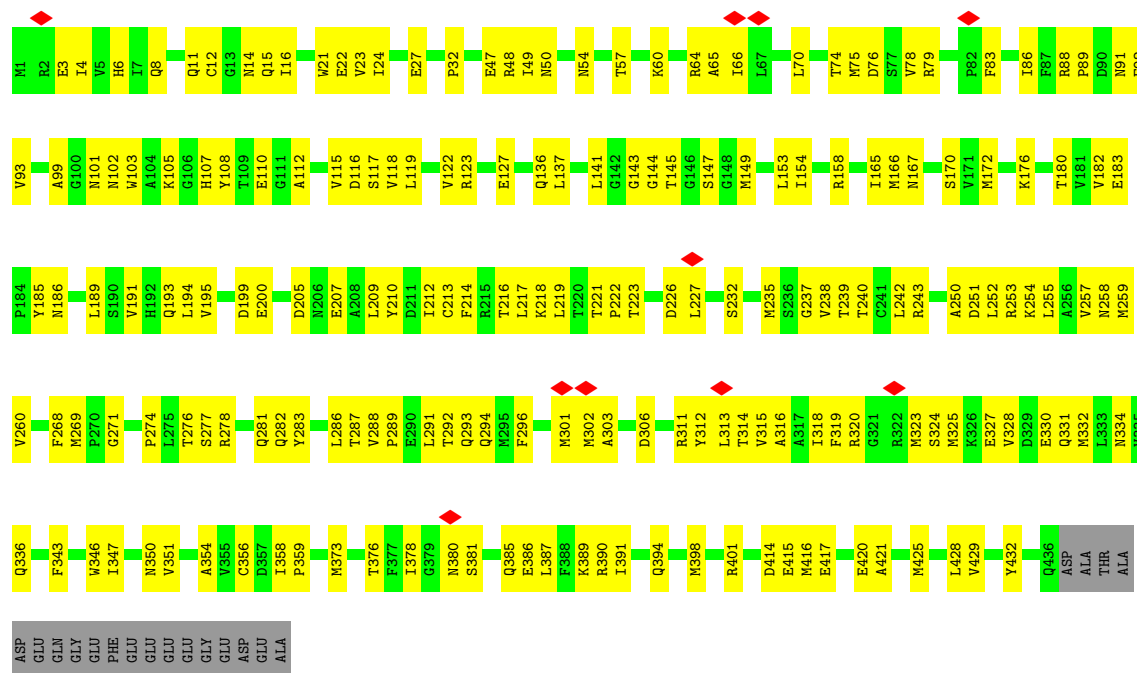
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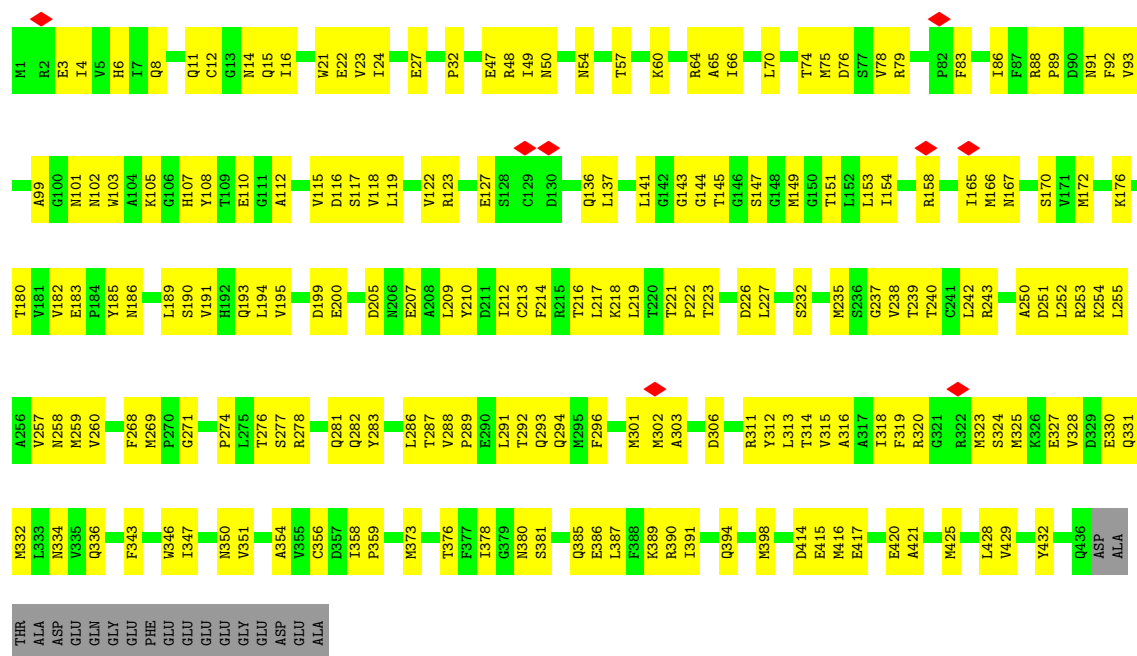






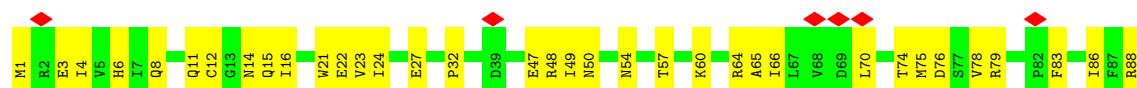
### • Molecule 3: Tubulin beta chain

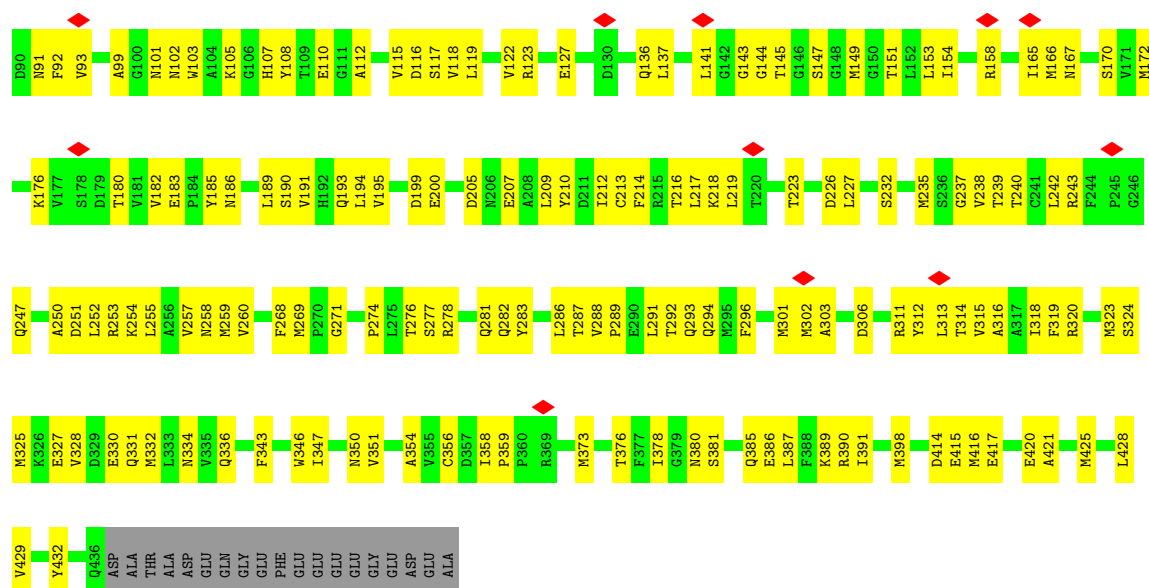
Chain FD: 52% 44%



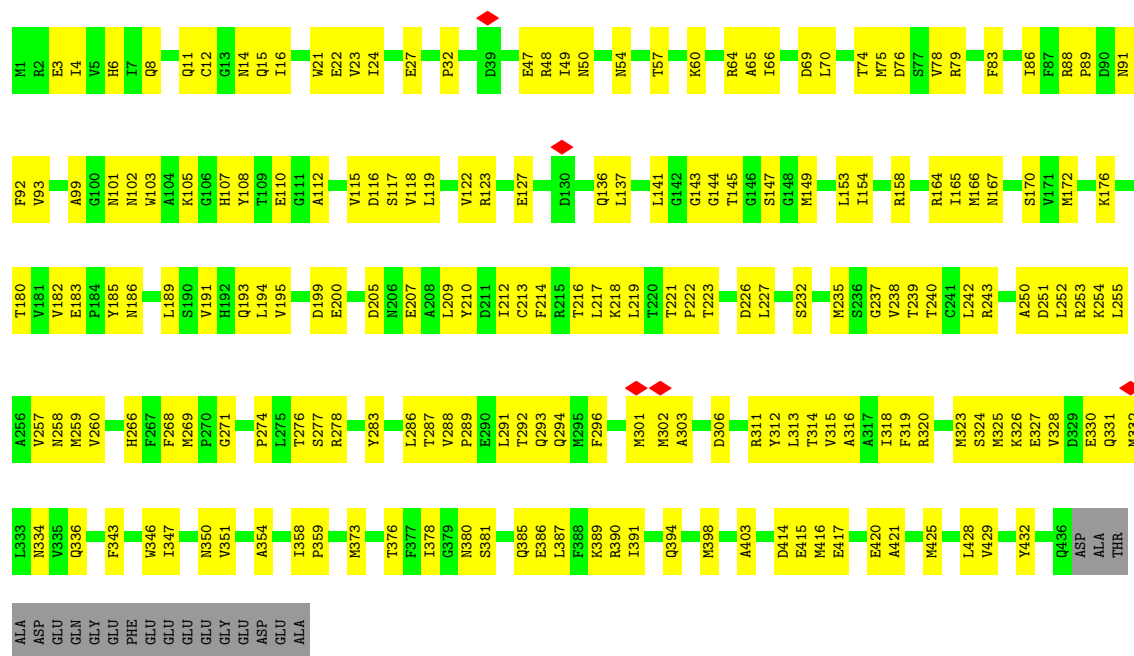
### • Molecule 3: Tubulin beta chain

Chain FF: 52% 43%



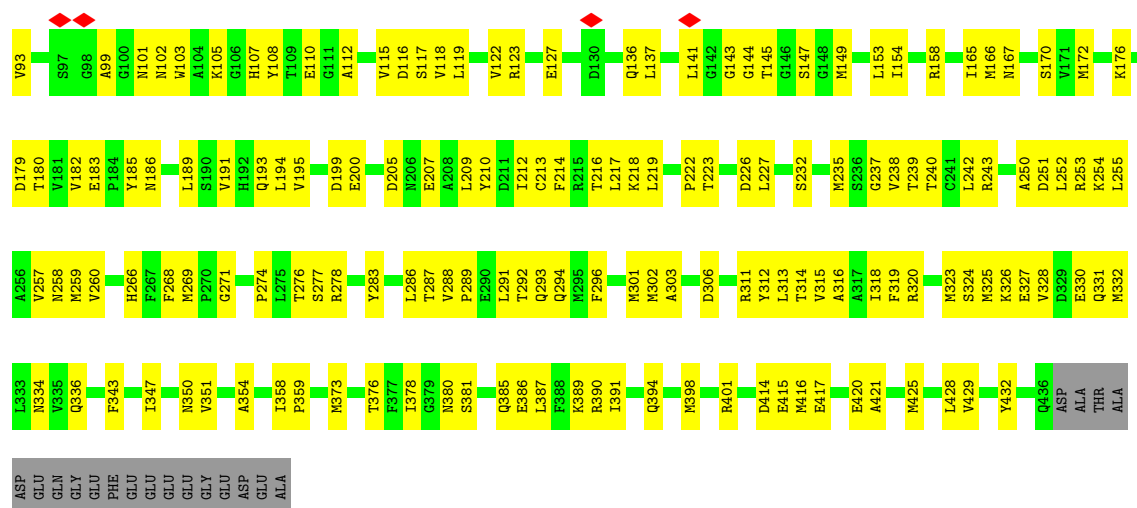


- Molecule 3: Tubulin beta chain



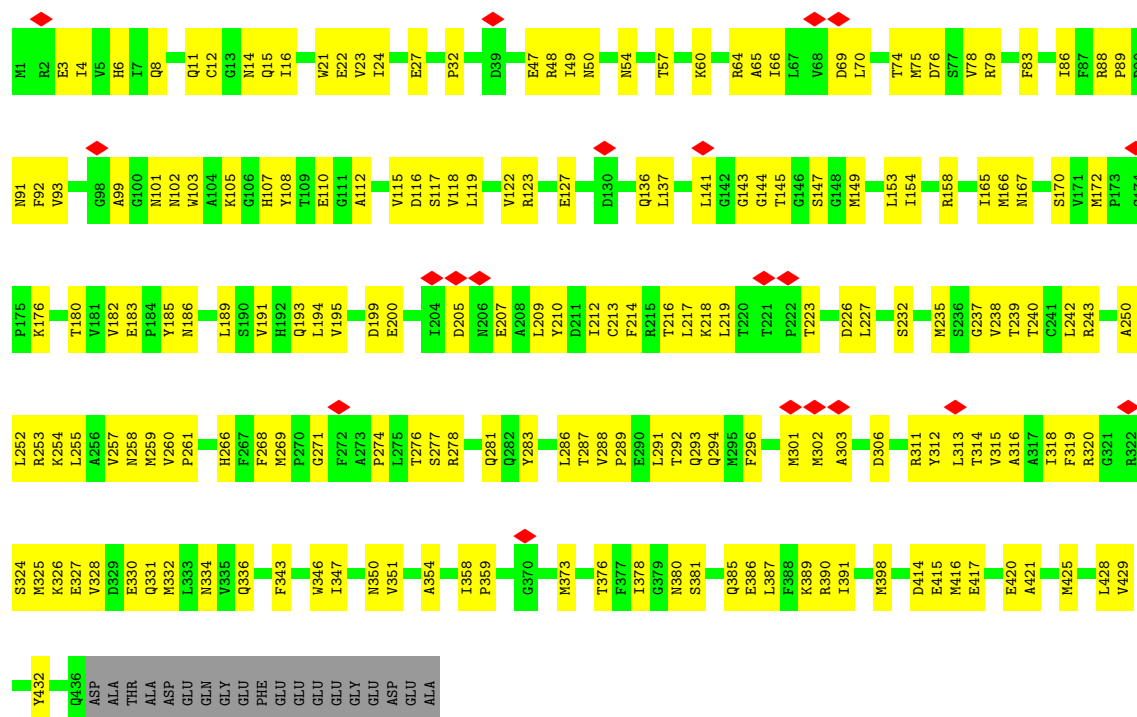
- Molecule 3: Tubulin beta chain





• Molecule 3: Tubulin beta chain

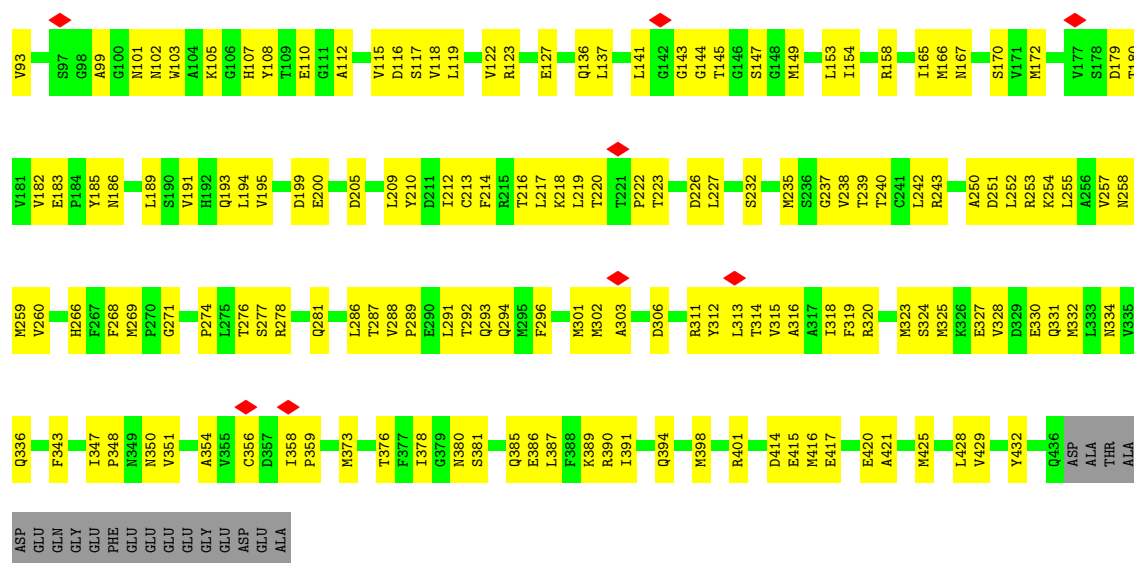
Chain GF: 53% 43% .



• Molecule 3: Tubulin beta chain

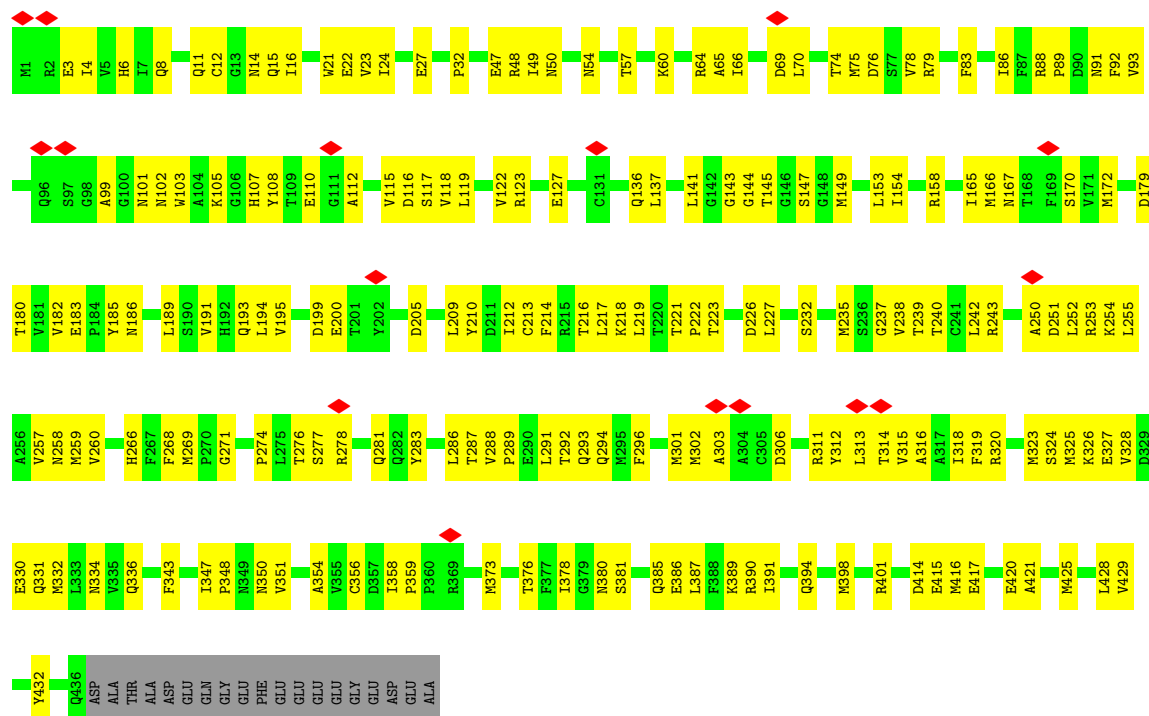
Chain HB: 53% 43% .





• Molecule 3: Tubulin beta chain

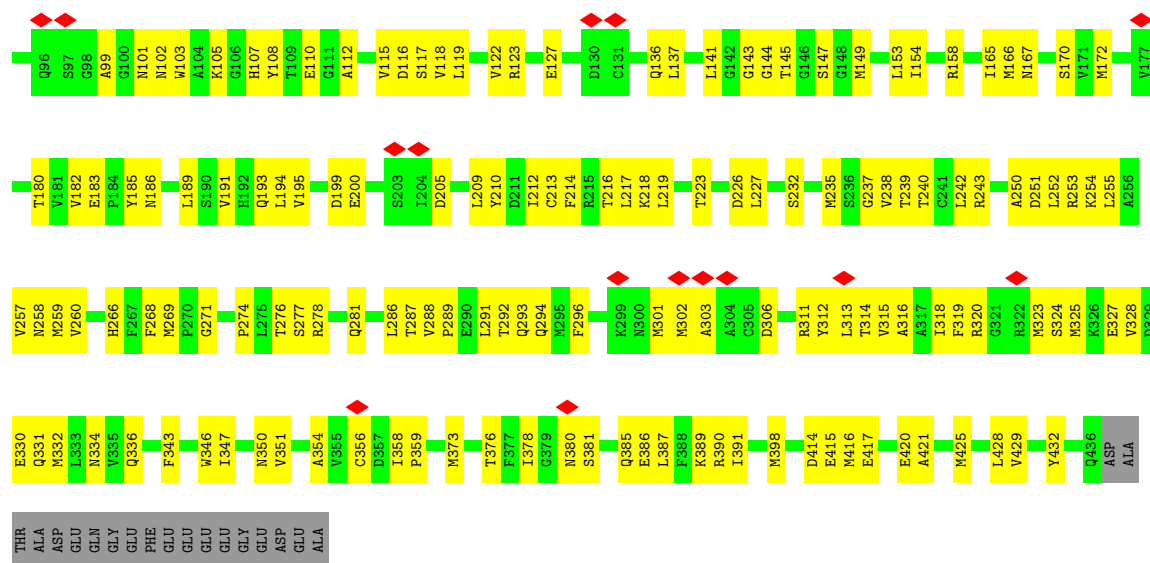
Chain HD: 52% 44%



• Molecule 3: Tubulin beta chain

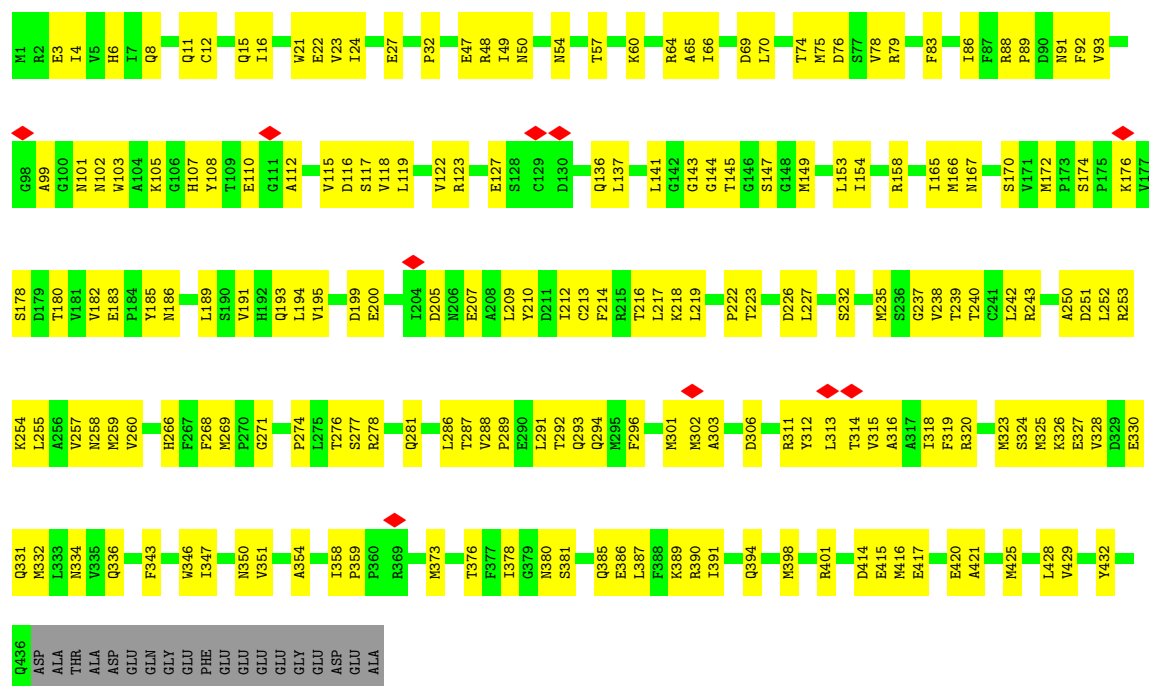
Chain HF: 54% 42%





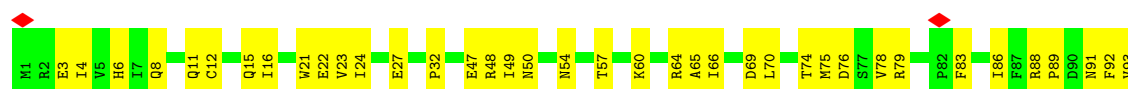
### • Molecule 3: Tubulin beta chain

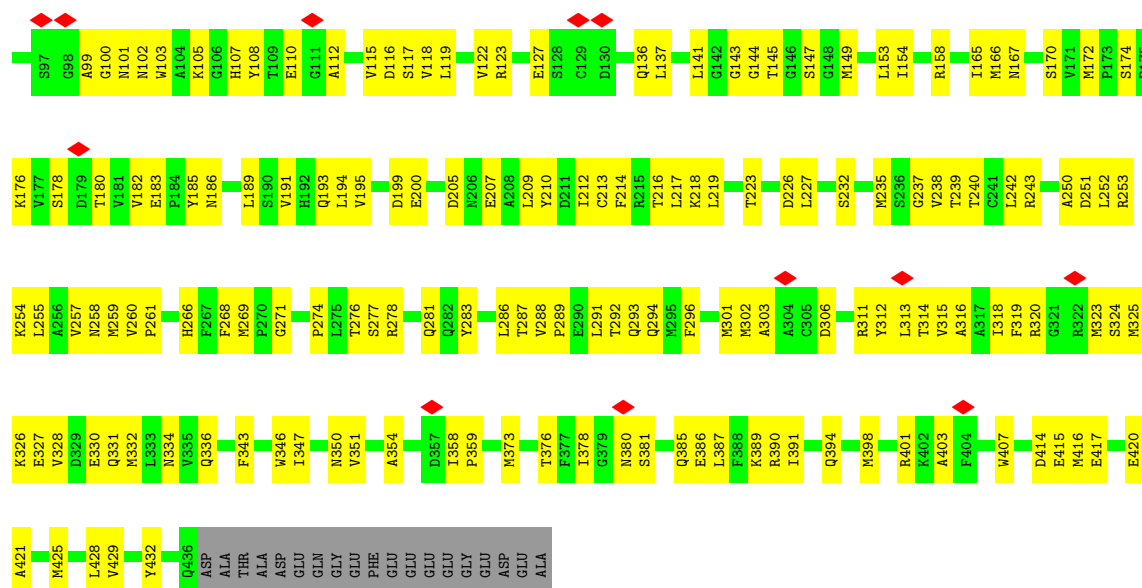
Chain IB: 52% 43%



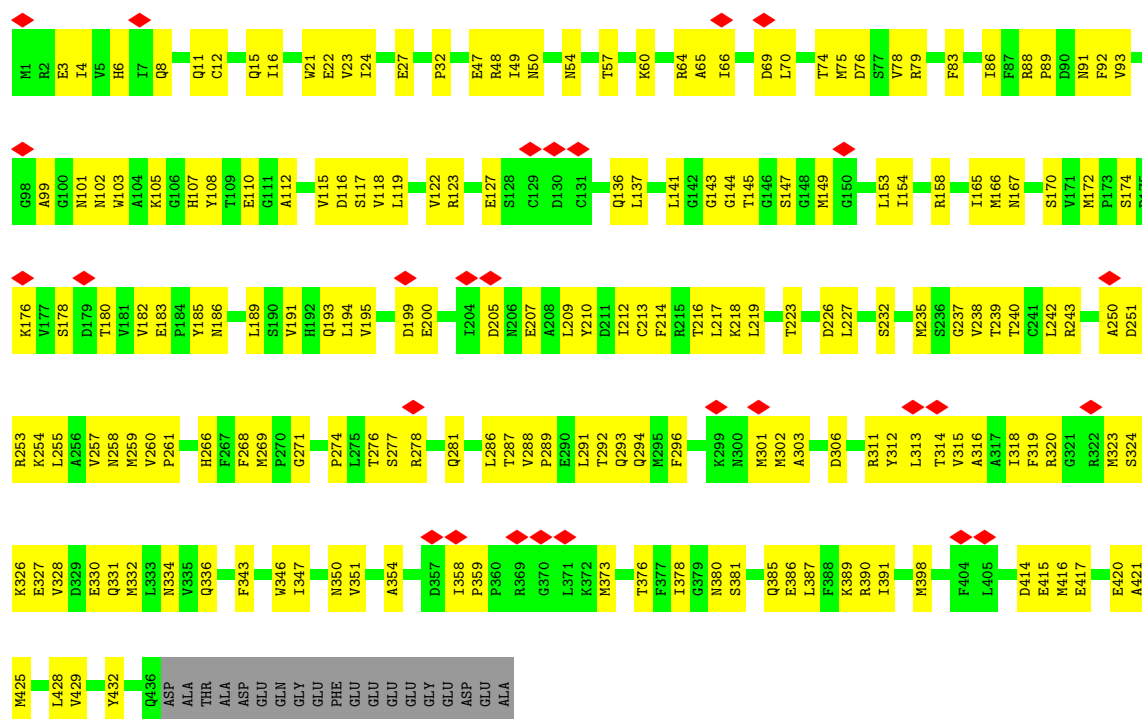
### • Molecule 3: Tubulin beta chain

Chain ID: 51% 44%

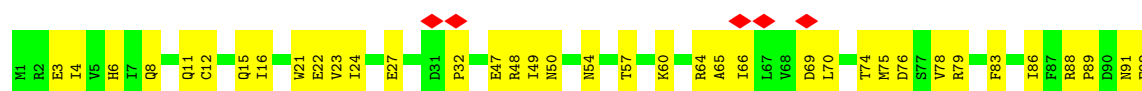


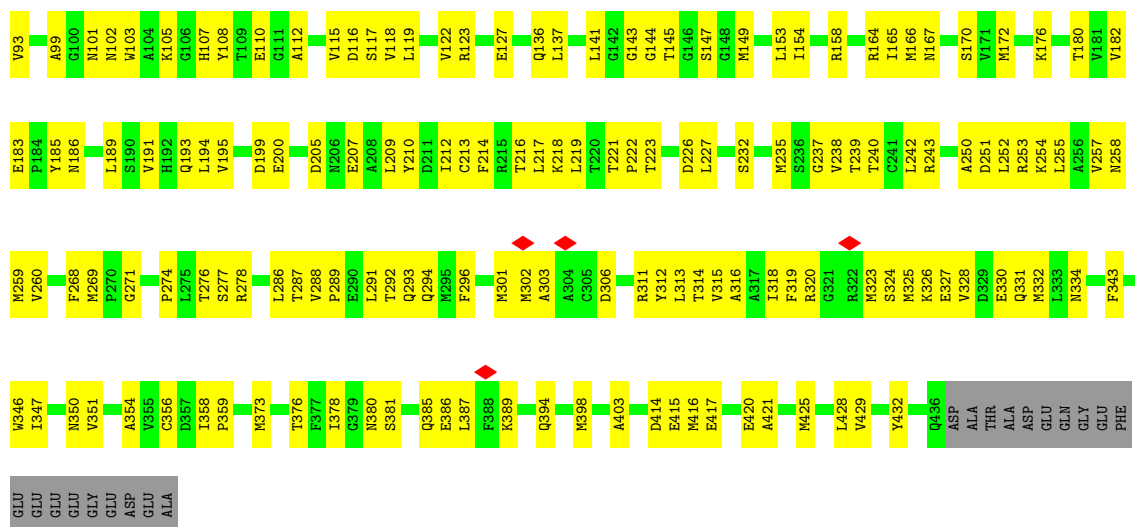


• Molecule 3: Tubulin beta chain

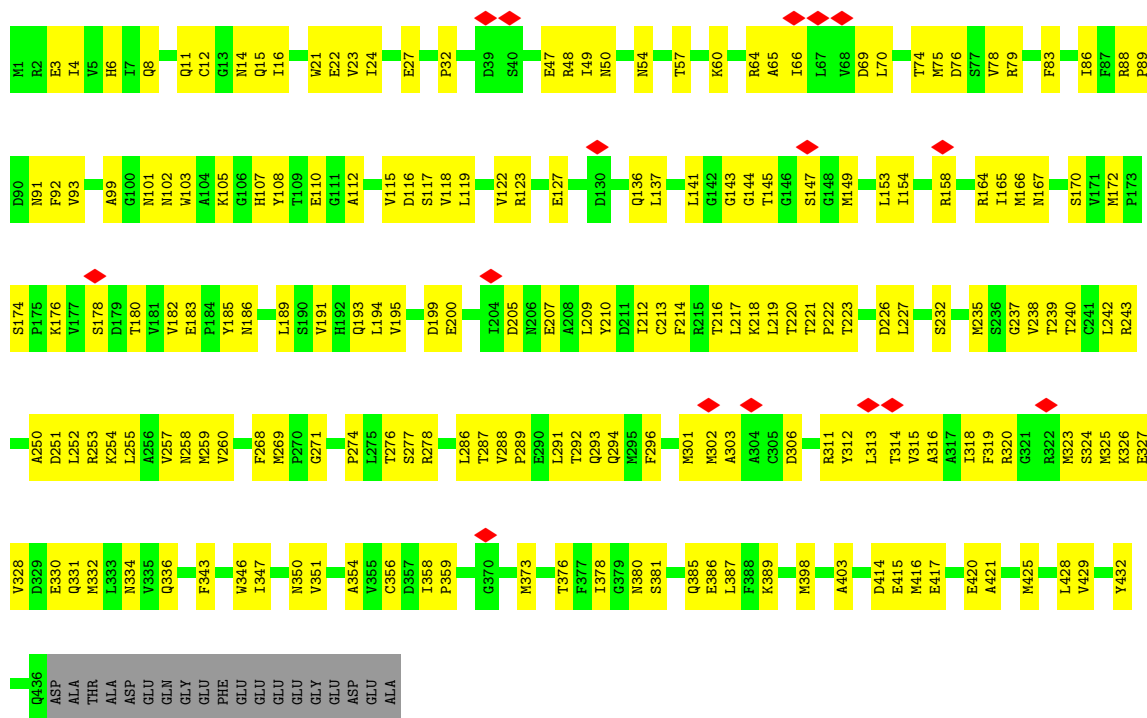


• Molecule 3: Tubulin beta chain

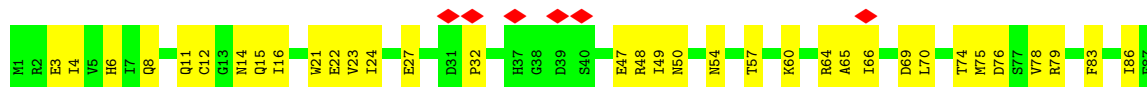


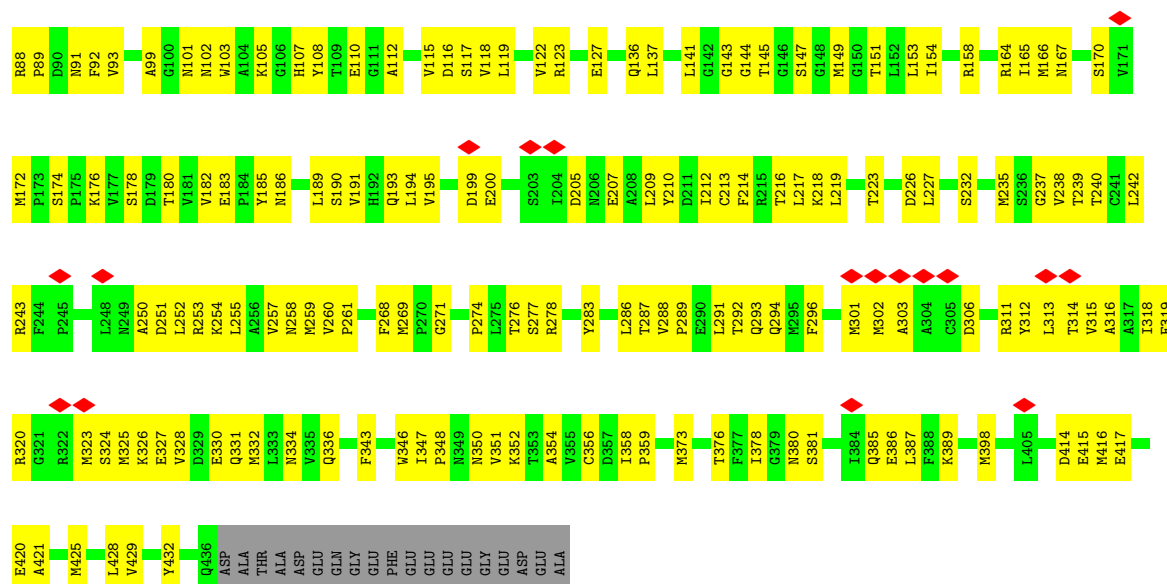


### • Molecule 3: Tubulin beta chain

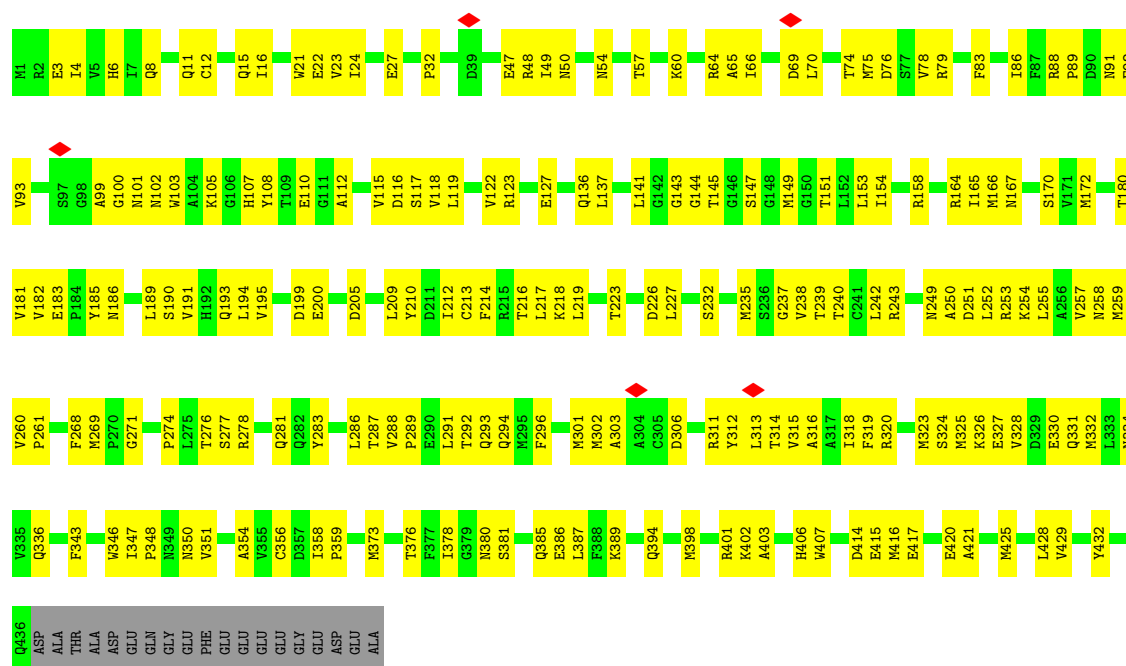


### • Molecule 3: Tubulin beta chain

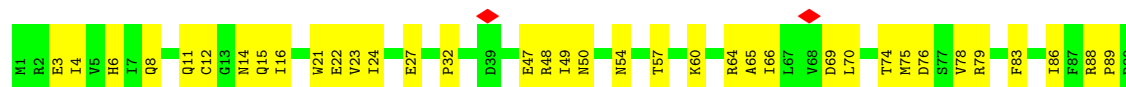




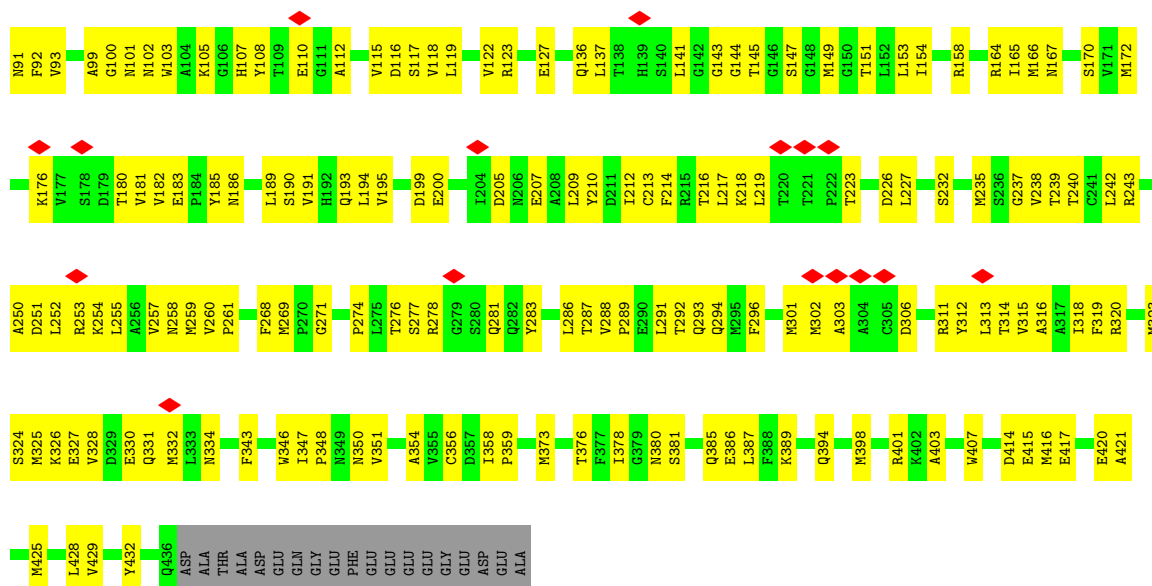
• Molecule 3: Tubulin beta chain



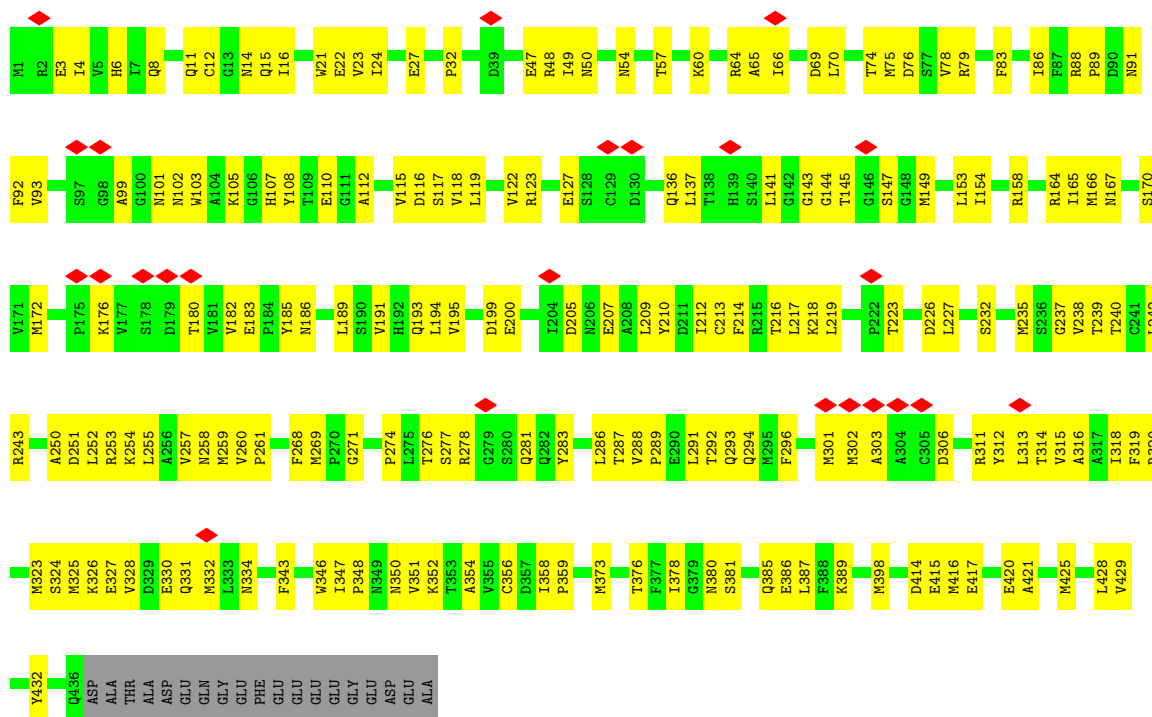
• Molecule 3: Tubulin beta chain



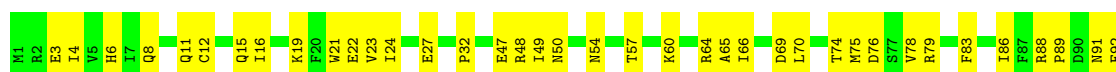


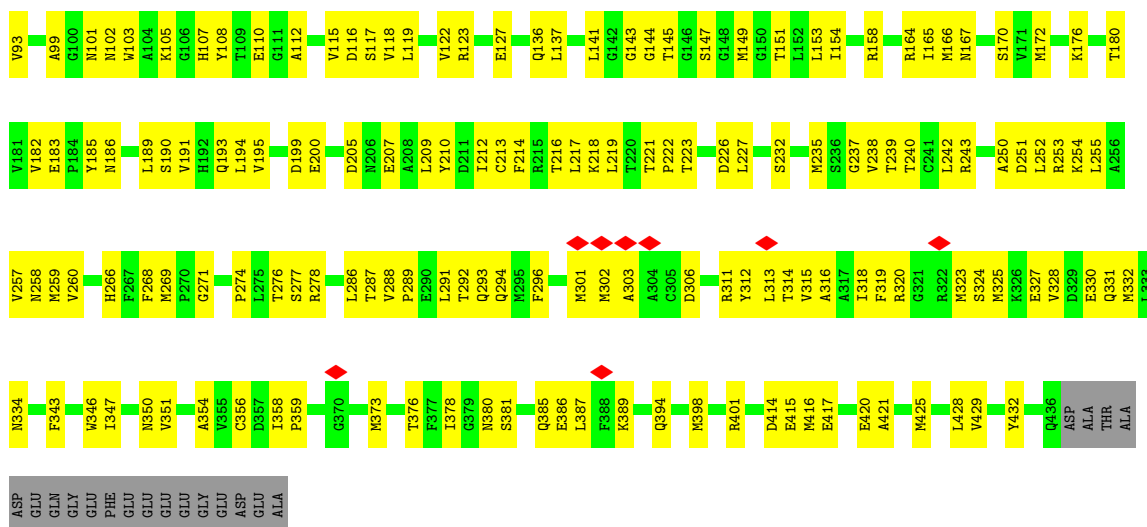


• Molecule 3: Tubulin beta chain



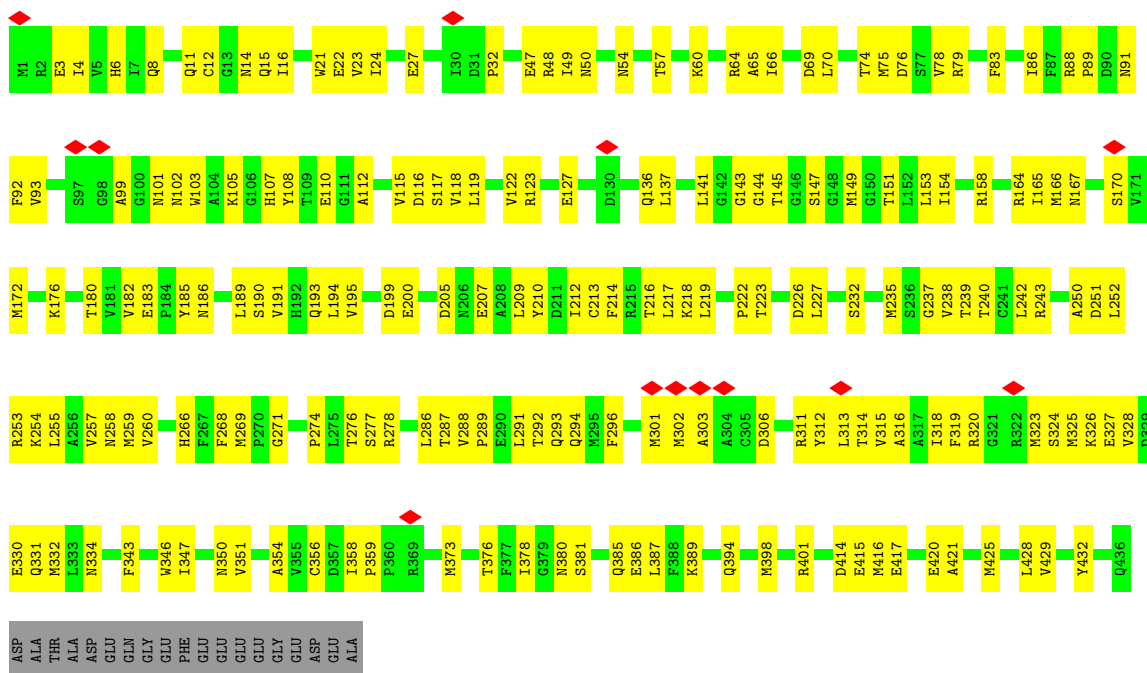
• Molecule 3: Tubulin beta chain





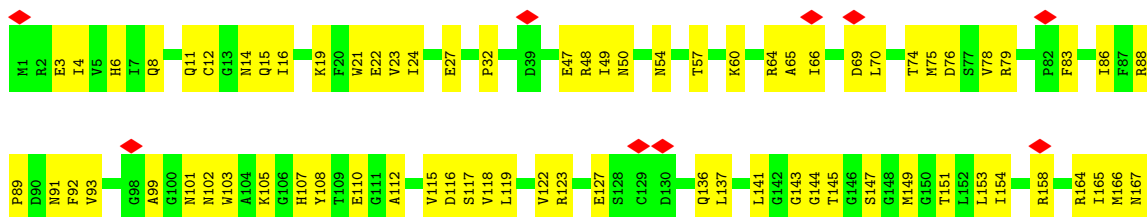
### • Molecule 3: Tubulin beta chain

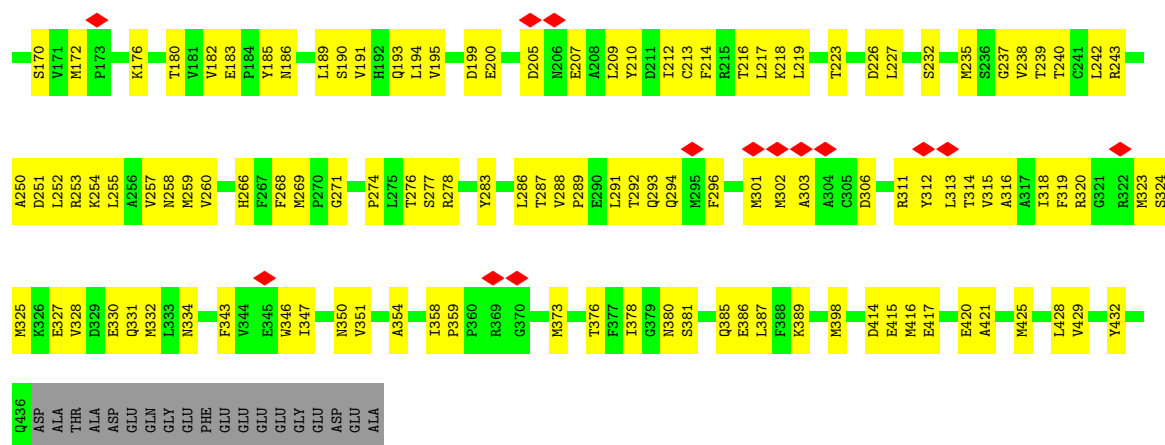
Chain LD: 53% 43%



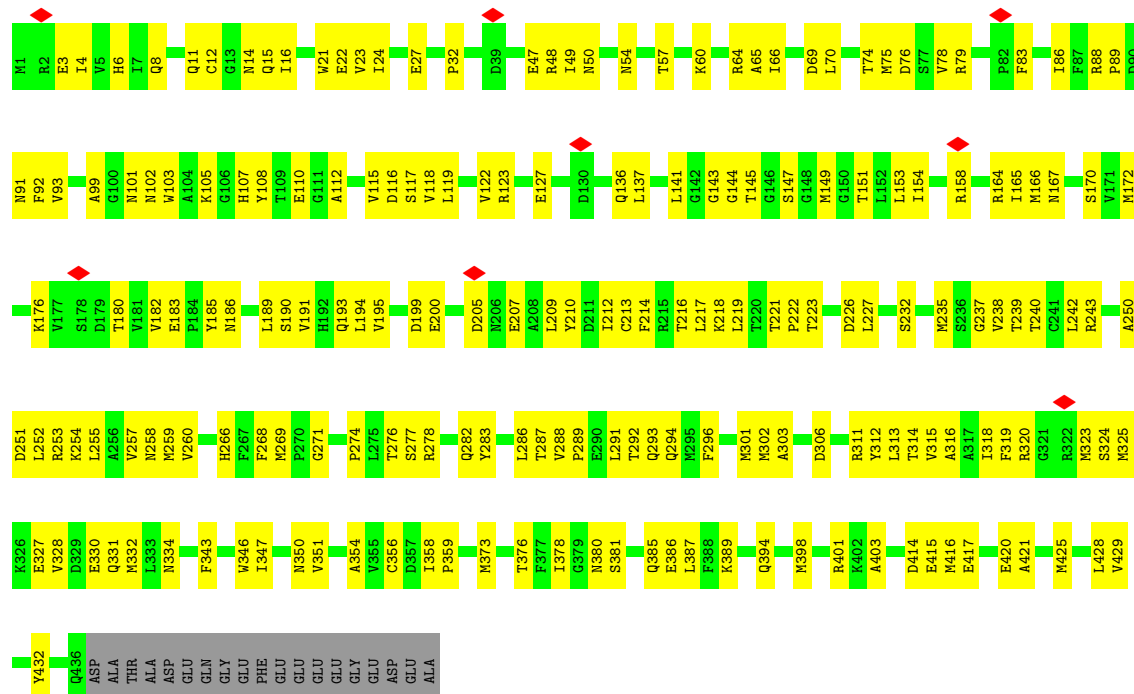
### • Molecule 3: Tubulin beta chain

Chain LF: 5% 53% 42%

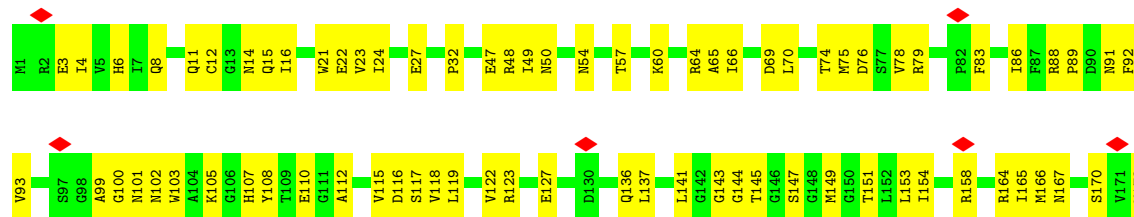


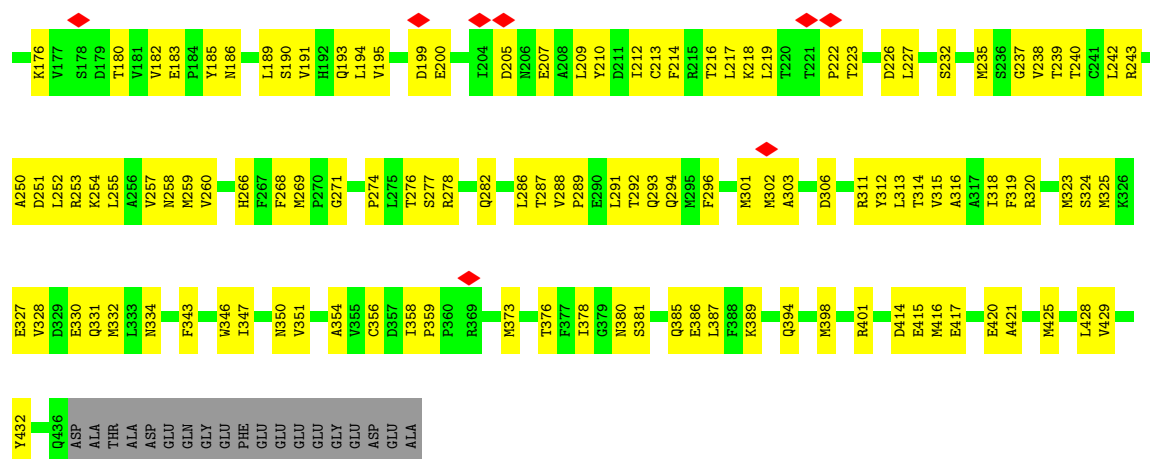


• Molecule 3: Tubulin beta chain

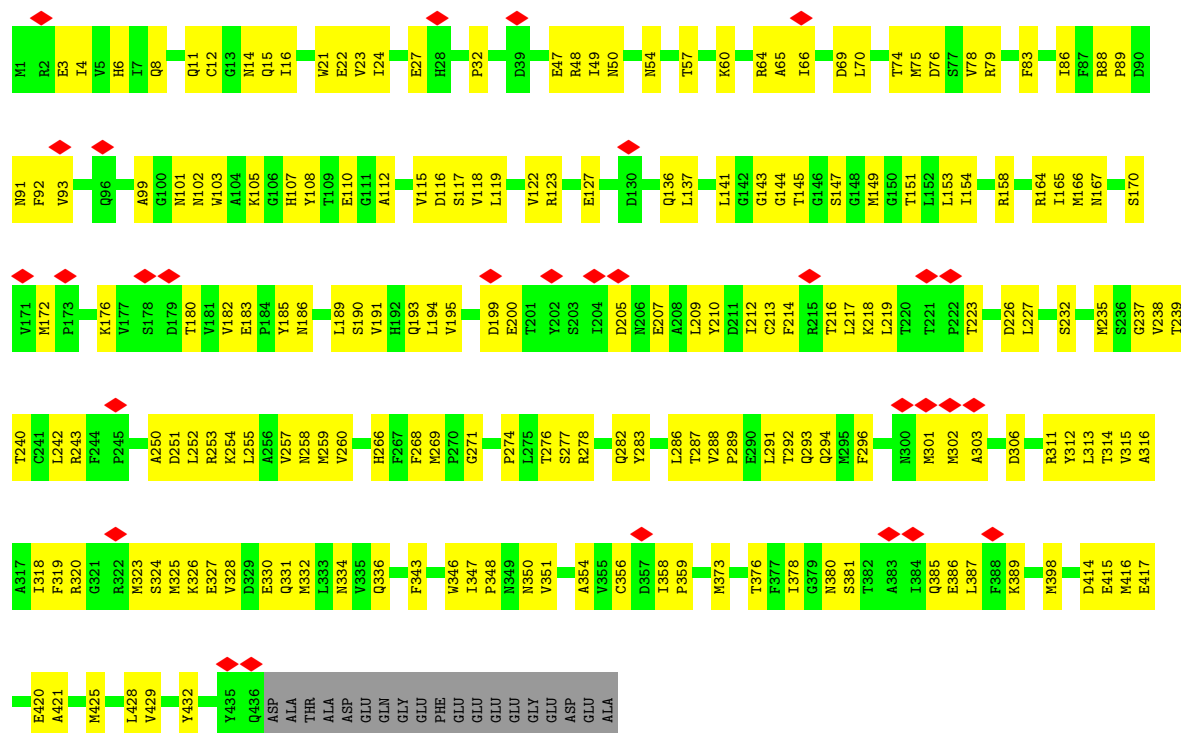


• Molecule 3: Tubulin beta chain

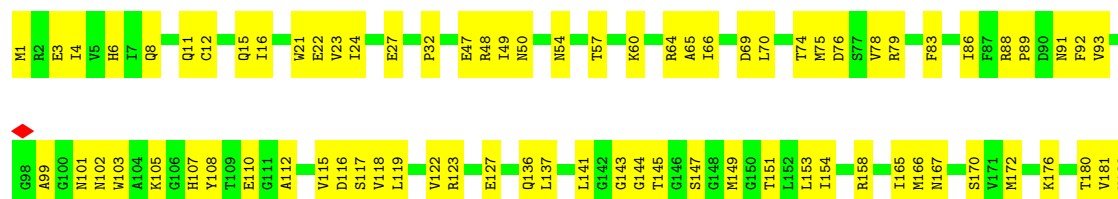


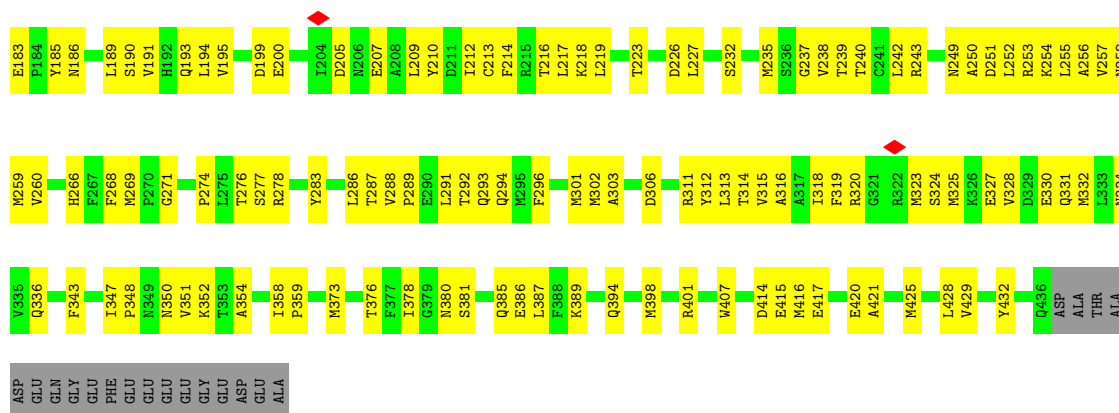


• Molecule 3: Tubulin beta chain

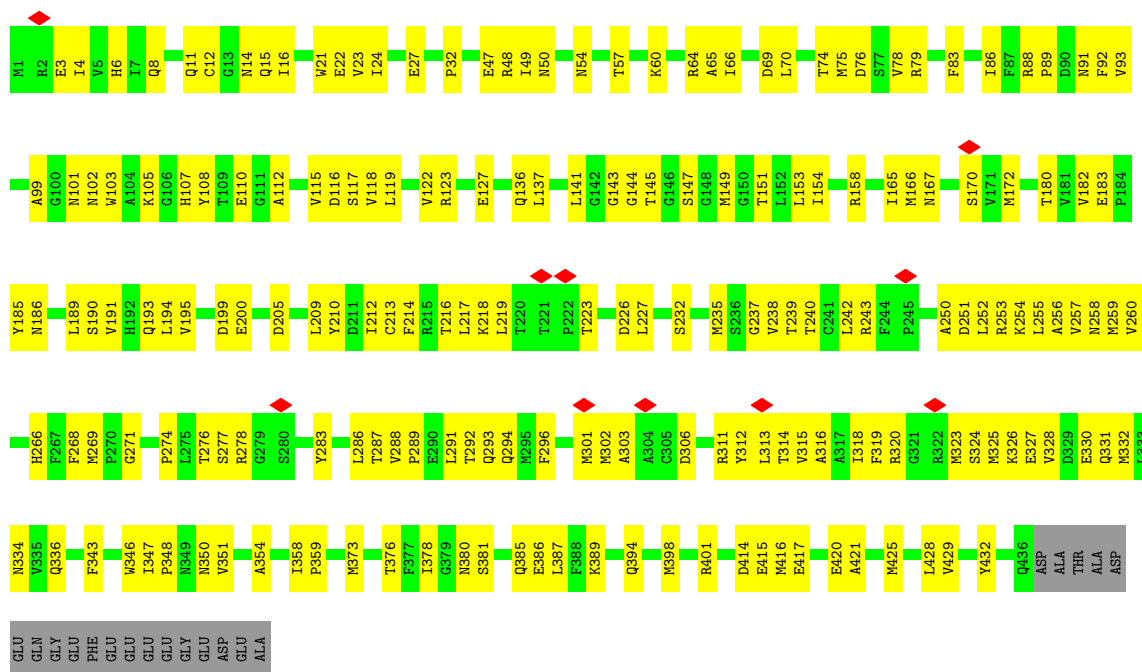


• Molecule 3: Tubulin beta chain

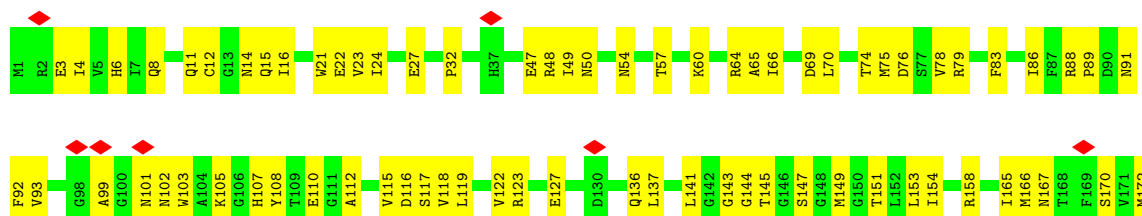


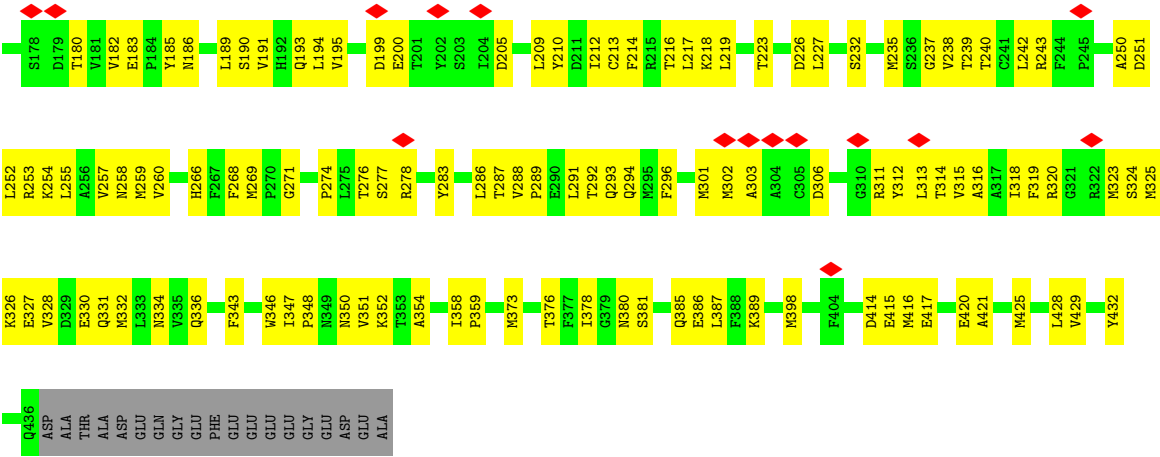


• Molecule 3: Tubulin beta chain



• Molecule 3: Tubulin beta chain





## 4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, Not provided	
Number of subtomograms used	9625	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	164	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.363	Depositor
Minimum map value	-0.000	Depositor
Average map value	0.005	Depositor
Map value standard deviation	0.042	Depositor
Recommended contour level	0.0398	Depositor
Map size (Å)	801.36, 801.36, 801.36	wwPDB
Map dimensions	378, 378, 378	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.12, 2.12, 2.12	Depositor

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, GTP, GDP, TA1

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	1A	0.28	0/1012	0.66	1/1365 (0.1%)
1	1B	0.28	0/1012	0.66	1/1365 (0.1%)
1	1C	0.28	0/1012	0.66	1/1365 (0.1%)
1	1D	0.28	0/1012	0.66	1/1365 (0.1%)
1	1E	0.28	0/1012	0.66	1/1365 (0.1%)
2	AA	0.17	0/3449	0.48	0/4682
2	AC	0.17	0/3449	0.48	0/4682
2	AE	0.18	0/3449	0.48	0/4682
2	BA	0.18	0/3449	0.48	0/4682
2	BC	0.17	0/3449	0.48	0/4682
2	BE	0.18	0/3449	0.48	0/4682
2	CA	0.17	0/3449	0.48	0/4682
2	CC	0.18	0/3449	0.48	0/4682
2	CE	0.17	0/3449	0.48	0/4682
2	DA	0.18	0/3449	0.48	0/4682
2	DC	0.17	0/3449	0.48	0/4682
2	DE	0.18	0/3449	0.48	0/4682
2	EA	0.17	0/3449	0.48	0/4682
2	EC	0.17	0/3449	0.48	0/4682
2	EE	0.17	0/3449	0.48	0/4682
2	FA	0.17	0/3449	0.48	0/4682
2	FC	0.17	0/3449	0.48	0/4682
2	FE	0.18	0/3449	0.48	0/4682
2	GA	0.18	0/3449	0.48	0/4682
2	GC	0.17	0/3449	0.48	0/4682
2	GE	0.18	0/3449	0.48	0/4682
2	HA	0.17	0/3449	0.48	0/4682
2	HC	0.18	0/3449	0.48	0/4682
2	HE	0.17	0/3449	0.49	0/4682
2	IA	0.17	0/3449	0.48	0/4682
2	IC	0.17	0/3449	0.48	0/4682
2	IE	0.17	0/3449	0.48	0/4682



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
2	JA	0.17	0/3449	0.48	0/4682
2	JC	0.17	0/3449	0.48	0/4682
2	JE	0.18	0/3449	0.48	0/4682
2	KA	0.17	0/3449	0.48	0/4682
2	KC	0.17	0/3449	0.48	0/4682
2	KE	0.17	0/3449	0.48	0/4682
2	LA	0.17	0/3449	0.48	0/4682
2	LC	0.17	0/3449	0.49	0/4682
2	LE	0.17	0/3449	0.48	0/4682
2	MA	0.17	0/3449	0.48	0/4682
2	MC	0.17	0/3449	0.48	0/4682
2	ME	0.17	0/3449	0.49	0/4682
2	NA	0.17	0/3449	0.48	0/4682
2	NC	0.17	0/3449	0.49	0/4682
2	NE	0.17	0/3449	0.48	0/4682
3	AB	0.18	0/3429	0.49	2/4643 (0.0%)
3	AD	0.18	0/3429	0.49	2/4643 (0.0%)
3	AF	0.18	0/3429	0.49	2/4643 (0.0%)
3	BB	0.18	0/3429	0.49	2/4643 (0.0%)
3	BD	0.18	0/3429	0.49	2/4643 (0.0%)
3	BF	0.18	0/3429	0.49	2/4643 (0.0%)
3	CB	0.18	0/3429	0.49	2/4643 (0.0%)
3	CD	0.18	0/3429	0.49	2/4643 (0.0%)
3	CF	0.18	0/3429	0.49	2/4643 (0.0%)
3	DB	0.18	0/3429	0.49	2/4643 (0.0%)
3	DD	0.18	0/3429	0.49	2/4643 (0.0%)
3	DF	0.18	0/3429	0.49	2/4643 (0.0%)
3	EB	0.18	0/3429	0.49	2/4643 (0.0%)
3	ED	0.18	0/3429	0.49	2/4643 (0.0%)
3	EF	0.18	0/3429	0.49	2/4643 (0.0%)
3	FB	0.18	0/3429	0.49	2/4643 (0.0%)
3	FD	0.18	0/3429	0.49	2/4643 (0.0%)
3	FF	0.18	0/3429	0.49	2/4643 (0.0%)
3	GB	0.18	0/3429	0.49	2/4643 (0.0%)
3	GD	0.18	0/3429	0.49	2/4643 (0.0%)
3	GF	0.18	0/3429	0.49	2/4643 (0.0%)
3	HB	0.18	0/3429	0.49	2/4643 (0.0%)
3	HD	0.18	0/3429	0.49	2/4643 (0.0%)
3	HF	0.18	0/3429	0.49	2/4643 (0.0%)
3	IB	0.18	0/3429	0.49	2/4643 (0.0%)
3	ID	0.18	0/3429	0.49	2/4643 (0.0%)
3	IF	0.18	0/3429	0.49	2/4643 (0.0%)
3	JB	0.18	0/3429	0.49	2/4643 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
3	JD	0.18	0/3429	0.49	2/4643 (0.0%)
3	JF	0.18	0/3429	0.49	2/4643 (0.0%)
3	KB	0.18	0/3429	0.49	2/4643 (0.0%)
3	KD	0.18	0/3429	0.49	2/4643 (0.0%)
3	KF	0.18	0/3429	0.49	2/4643 (0.0%)
3	LB	0.18	0/3429	0.49	2/4643 (0.0%)
3	LD	0.18	0/3429	0.49	2/4643 (0.0%)
3	LF	0.18	0/3429	0.49	2/4643 (0.0%)
3	MB	0.18	0/3429	0.49	2/4643 (0.0%)
3	MD	0.18	0/3429	0.49	2/4643 (0.0%)
3	MF	0.18	0/3429	0.49	2/4643 (0.0%)
3	NB	0.18	0/3429	0.49	2/4643 (0.0%)
3	ND	0.18	0/3429	0.49	2/4643 (0.0%)
3	NF	0.18	0/3429	0.49	2/4643 (0.0%)
All	All	0.18	0/293936	0.49	89/398475 (0.0%)

There are no bond length outliers.

All (89) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	GB	287	THR	CA-C-N	5.78	123.88	120.24
3	GB	287	THR	C-N-CA	5.78	123.88	120.24
3	LD	287	THR	CA-C-N	5.73	123.85	120.24
3	LD	287	THR	C-N-CA	5.73	123.85	120.24
3	CF	287	THR	CA-C-N	5.72	123.84	120.24
3	CF	287	THR	C-N-CA	5.72	123.84	120.24
3	DF	287	THR	CA-C-N	5.71	123.83	120.24
3	DF	287	THR	C-N-CA	5.71	123.83	120.24
3	MD	287	THR	CA-C-N	5.71	123.83	120.24
3	MD	287	THR	C-N-CA	5.71	123.83	120.24
3	AF	287	THR	CA-C-N	5.70	123.83	120.24
3	AF	287	THR	C-N-CA	5.70	123.83	120.24
3	BB	287	THR	CA-C-N	5.70	123.83	120.24
3	BB	287	THR	C-N-CA	5.70	123.83	120.24
3	AD	287	THR	CA-C-N	5.70	123.83	120.24
3	AD	287	THR	C-N-CA	5.70	123.83	120.24
3	BD	287	THR	CA-C-N	5.69	123.83	120.24
3	BD	287	THR	C-N-CA	5.69	123.83	120.24
3	JF	287	THR	CA-C-N	5.69	123.82	120.24
3	JF	287	THR	C-N-CA	5.69	123.82	120.24
3	IB	287	THR	CA-C-N	5.69	123.82	120.24
3	IB	287	THR	C-N-CA	5.69	123.82	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	JD	287	THR	CA-C-N	5.68	123.82	120.24
3	JD	287	THR	C-N-CA	5.68	123.82	120.24
3	NB	287	THR	CA-C-N	5.68	123.82	120.24
3	NB	287	THR	C-N-CA	5.68	123.82	120.24
3	FF	287	THR	CA-C-N	5.68	123.82	120.24
3	FF	287	THR	C-N-CA	5.68	123.82	120.24
3	CD	287	THR	CA-C-N	5.68	123.82	120.24
3	CD	287	THR	C-N-CA	5.68	123.82	120.24
3	ND	287	THR	CA-C-N	5.68	123.82	120.24
3	ND	287	THR	C-N-CA	5.68	123.82	120.24
3	ED	287	THR	CA-C-N	5.67	123.81	120.24
3	ED	287	THR	C-N-CA	5.67	123.81	120.24
3	GF	287	THR	CA-C-N	5.67	123.81	120.24
3	GF	287	THR	C-N-CA	5.67	123.81	120.24
3	CB	287	THR	CA-C-N	5.67	123.81	120.24
3	CB	287	THR	C-N-CA	5.67	123.81	120.24
3	AB	287	THR	CA-C-N	5.66	123.81	120.24
3	AB	287	THR	C-N-CA	5.66	123.81	120.24
3	LB	287	THR	CA-C-N	5.66	123.81	120.24
3	LB	287	THR	C-N-CA	5.66	123.81	120.24
3	EB	287	THR	CA-C-N	5.66	123.80	120.24
3	EB	287	THR	C-N-CA	5.66	123.80	120.24
3	FD	287	THR	CA-C-N	5.66	123.80	120.24
3	FD	287	THR	C-N-CA	5.66	123.80	120.24
3	HB	287	THR	CA-C-N	5.66	123.80	120.24
3	HB	287	THR	C-N-CA	5.66	123.80	120.24
3	KD	287	THR	CA-C-N	5.65	123.80	120.24
3	KD	287	THR	C-N-CA	5.65	123.80	120.24
3	KF	287	THR	CA-C-N	5.65	123.80	120.24
3	KF	287	THR	C-N-CA	5.65	123.80	120.24
3	IF	287	THR	CA-C-N	5.65	123.80	120.24
3	IF	287	THR	C-N-CA	5.65	123.80	120.24
3	KB	287	THR	CA-C-N	5.64	123.79	120.24
3	KB	287	THR	C-N-CA	5.64	123.79	120.24
3	HF	287	THR	CA-C-N	5.64	123.79	120.24
3	HF	287	THR	C-N-CA	5.64	123.79	120.24
3	NF	287	THR	CA-C-N	5.64	123.79	120.24
3	NF	287	THR	C-N-CA	5.64	123.79	120.24
3	MB	287	THR	CA-C-N	5.63	123.79	120.24
3	MB	287	THR	C-N-CA	5.63	123.79	120.24
3	DD	287	THR	CA-C-N	5.63	123.78	120.24
3	DD	287	THR	C-N-CA	5.63	123.78	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	GD	287	THR	CA-C-N	5.63	123.79	120.24
3	GD	287	THR	C-N-CA	5.63	123.79	120.24
3	DB	287	THR	CA-C-N	5.63	123.78	120.24
3	DB	287	THR	C-N-CA	5.63	123.78	120.24
3	HD	287	THR	CA-C-N	5.62	123.78	120.24
3	HD	287	THR	C-N-CA	5.62	123.78	120.24
3	FB	287	THR	CA-C-N	5.62	123.78	120.24
3	FB	287	THR	C-N-CA	5.62	123.78	120.24
3	JB	287	THR	CA-C-N	5.62	123.78	120.24
3	JB	287	THR	C-N-CA	5.62	123.78	120.24
3	MF	287	THR	CA-C-N	5.62	123.78	120.24
3	MF	287	THR	C-N-CA	5.62	123.78	120.24
3	ID	287	THR	CA-C-N	5.62	123.78	120.24
3	ID	287	THR	C-N-CA	5.62	123.78	120.24
3	LF	287	THR	CA-C-N	5.61	123.78	120.24
3	LF	287	THR	C-N-CA	5.61	123.78	120.24
3	BF	287	THR	CA-C-N	5.61	123.77	120.24
3	BF	287	THR	C-N-CA	5.61	123.77	120.24
3	EF	287	THR	CA-C-N	5.60	123.77	120.24
3	EF	287	THR	C-N-CA	5.60	123.77	120.24
1	1B	50	ILE	CG1-CB-CG2	-5.32	94.76	110.70
1	1A	50	ILE	CG1-CB-CG2	-5.31	94.76	110.70
1	1C	50	ILE	CG1-CB-CG2	-5.31	94.76	110.70
1	1D	50	ILE	CG1-CB-CG2	-5.31	94.77	110.70
1	1E	50	ILE	CG1-CB-CG2	-5.31	94.77	110.70

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	992	0	1022	70	0
1	1B	992	0	1022	70	0
1	1C	992	0	1022	74	0
1	1D	992	0	1022	54	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1E	992	0	1022	62	0
2	AA	3372	0	3286	139	0
2	AC	3372	0	3286	158	0
2	AE	3372	0	3286	175	0
2	BA	3372	0	3286	127	0
2	BC	3372	0	3286	139	0
2	BE	3372	0	3286	129	0
2	CA	3372	0	3286	128	0
2	CC	3372	0	3286	136	0
2	CE	3372	0	3286	134	0
2	DA	3372	0	3286	125	0
2	DC	3372	0	3286	125	0
2	DE	3372	0	3286	133	0
2	EA	3372	0	3286	123	0
2	EC	3372	0	3286	131	0
2	EE	3372	0	3286	138	0
2	FA	3372	0	3286	128	0
2	FC	3372	0	3286	141	0
2	FE	3372	0	3286	143	0
2	GA	3372	0	3286	124	0
2	GC	3372	0	3286	136	0
2	GE	3372	0	3286	147	0
2	HA	3372	0	3286	118	0
2	HC	3372	0	3286	131	0
2	HE	3372	0	3286	139	0
2	IA	3372	0	3286	127	0
2	IC	3372	0	3286	133	0
2	IE	3372	0	3286	164	0
2	JA	3372	0	3286	127	0
2	JC	3372	0	3286	144	0
2	JE	3372	0	3286	167	0
2	KA	3372	0	3286	145	0
2	KC	3372	0	3286	158	0
2	KE	3372	0	3286	154	0
2	LA	3372	0	3286	132	0
2	LC	3372	0	3286	138	0
2	LE	3372	0	3286	142	0
2	MA	3372	0	3286	139	0
2	MC	3372	0	3286	147	0
2	ME	3372	0	3286	156	0
2	NA	3372	0	3286	141	0
2	NC	3372	0	3286	153	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	NE	3372	0	3286	139	0
3	AB	3354	0	3236	167	0
3	AD	3354	0	3236	168	0
3	AF	3354	0	3236	162	0
3	BB	3354	0	3236	169	0
3	BD	3354	0	3236	179	0
3	BF	3354	0	3236	157	0
3	CB	3354	0	3236	165	0
3	CD	3354	0	3236	163	0
3	CF	3354	0	3236	151	0
3	DB	3354	0	3236	163	0
3	DD	3354	0	3236	161	0
3	DF	3354	0	3236	161	0
3	EB	3354	0	3236	170	0
3	ED	3354	0	3236	157	0
3	EF	3354	0	3236	180	0
3	FB	3354	0	3236	177	0
3	FD	3354	0	3236	170	0
3	FF	3354	0	3236	180	0
3	GB	3354	0	3236	169	0
3	GD	3354	0	3236	166	0
3	GF	3354	0	3236	170	0
3	HB	3354	0	3236	159	0
3	HD	3354	0	3236	167	0
3	HF	3354	0	3236	162	0
3	IB	3354	0	3236	166	0
3	ID	3354	0	3236	177	0
3	IF	3354	0	3236	174	0
3	JB	3354	0	3236	167	0
3	JD	3354	0	3236	175	0
3	JF	3354	0	3236	186	0
3	KB	3354	0	3236	206	0
3	KD	3354	0	3236	186	0
3	KF	3354	0	3236	172	0
3	LB	3354	0	3236	169	0
3	LD	3354	0	3236	170	0
3	LF	3354	0	3236	177	0
3	MB	3354	0	3236	187	0
3	MD	3354	0	3236	167	0
3	MF	3354	0	3236	196	0
3	NB	3354	0	3236	216	0
3	ND	3354	0	3236	169	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	NF	3354	0	3236	172	0
4	AA	32	0	12	4	0
4	AC	32	0	12	7	0
4	AE	32	0	12	5	0
4	BA	32	0	12	5	0
4	BC	32	0	12	5	0
4	BE	32	0	12	5	0
4	CA	32	0	12	4	0
4	CC	32	0	12	4	0
4	CE	32	0	12	4	0
4	DA	32	0	12	8	0
4	DC	32	0	12	6	0
4	DE	32	0	12	7	0
4	EA	32	0	12	6	0
4	EC	32	0	12	6	0
4	EE	32	0	12	8	0
4	FA	32	0	12	7	0
4	FC	32	0	12	6	0
4	FE	32	0	12	6	0
4	GA	32	0	12	6	0
4	GC	32	0	12	7	0
4	GE	32	0	12	4	0
4	HA	32	0	12	5	0
4	HC	32	0	12	5	0
4	HE	32	0	12	5	0
4	IA	32	0	12	5	0
4	IC	32	0	12	6	0
4	IE	32	0	12	6	0
4	JA	32	0	12	6	0
4	JC	32	0	12	8	0
4	JE	32	0	12	9	0
4	KA	32	0	12	8	0
4	KC	32	0	12	9	0
4	KE	32	0	12	8	0
4	LA	32	0	12	6	0
4	LC	32	0	12	7	0
4	LE	32	0	12	6	0
4	MA	32	0	12	5	0
4	MC	32	0	12	6	0
4	ME	32	0	12	7	0
4	NA	32	0	12	6	0
4	NC	32	0	12	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	NE	32	0	12	7	0
5	AA	1	0	0	0	0
5	AC	1	0	0	0	0
5	AE	1	0	0	0	0
5	BA	1	0	0	0	0
5	BC	1	0	0	0	0
5	BE	1	0	0	0	0
5	CA	1	0	0	0	0
5	CC	1	0	0	0	0
5	CE	1	0	0	0	0
5	DA	1	0	0	0	0
5	DC	1	0	0	0	0
5	DE	1	0	0	0	0
5	EA	1	0	0	0	0
5	EC	1	0	0	0	0
5	EE	1	0	0	0	0
5	FA	1	0	0	0	0
5	FC	1	0	0	0	0
5	FE	1	0	0	0	0
5	GA	1	0	0	0	0
5	GC	1	0	0	0	0
5	GE	1	0	0	0	0
5	HA	1	0	0	0	0
5	HC	1	0	0	0	0
5	HE	1	0	0	0	0
5	IA	1	0	0	0	0
5	IC	1	0	0	0	0
5	IE	1	0	0	0	0
5	JA	1	0	0	0	0
5	JC	1	0	0	0	0
5	JE	1	0	0	0	0
5	KA	1	0	0	0	0
5	KC	1	0	0	0	0
5	KE	1	0	0	0	0
5	LA	1	0	0	0	0
5	LC	1	0	0	0	0
5	LE	1	0	0	0	0
5	MA	1	0	0	0	0
5	MC	1	0	0	0	0
5	ME	1	0	0	0	0
5	NA	1	0	0	0	0
5	NC	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	NE	1	0	0	0	0
6	AB	28	0	12	5	0
6	AD	28	0	12	5	0
6	AF	28	0	12	5	0
6	BB	28	0	12	5	0
6	BD	28	0	12	5	0
6	BF	28	0	12	5	0
6	CB	28	0	12	5	0
6	CD	28	0	12	5	0
6	CF	28	0	12	5	0
6	DB	28	0	12	5	0
6	DD	28	0	12	5	0
6	DF	28	0	12	5	0
6	EB	28	0	12	5	0
6	ED	28	0	12	5	0
6	EF	28	0	12	5	0
6	FB	28	0	12	5	0
6	FD	28	0	12	5	0
6	FF	28	0	12	5	0
6	GB	28	0	12	5	0
6	GD	28	0	12	5	0
6	GF	28	0	12	5	0
6	HB	28	0	12	5	0
6	HD	28	0	12	5	0
6	HF	28	0	12	5	0
6	IB	28	0	12	5	0
6	ID	28	0	12	5	0
6	IF	28	0	12	5	0
6	JB	28	0	12	5	0
6	JD	28	0	12	5	0
6	JF	28	0	12	5	0
6	KB	28	0	12	5	0
6	KD	28	0	12	5	0
6	KF	28	0	12	6	0
6	LB	28	0	12	5	0
6	LD	28	0	12	5	0
6	LF	28	0	12	5	0
6	MB	28	0	12	5	0
6	MD	28	0	12	5	0
6	MF	28	0	12	5	0
6	NB	28	0	12	5	0
6	ND	28	0	12	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	NF	28	0	12	5	0
7	AB	62	0	51	6	0
7	AD	62	0	51	6	0
7	AF	62	0	51	6	0
7	BB	62	0	51	6	0
7	BD	62	0	51	7	0
7	BF	62	0	51	6	0
7	CB	62	0	51	6	0
7	CD	62	0	51	6	0
7	CF	62	0	51	6	0
7	DB	62	0	51	6	0
7	DD	62	0	51	6	0
7	DF	62	0	51	6	0
7	EB	62	0	51	7	0
7	ED	62	0	51	6	0
7	EF	62	0	51	8	0
7	FB	62	0	51	7	0
7	FD	62	0	51	7	0
7	FF	62	0	51	7	0
7	GB	62	0	51	7	0
7	GD	62	0	51	7	0
7	GF	62	0	51	7	0
7	HB	62	0	51	7	0
7	HD	62	0	51	7	0
7	HF	62	0	51	7	0
7	IB	62	0	51	7	0
7	ID	62	0	51	8	0
7	IF	62	0	51	7	0
7	JB	62	0	51	7	0
7	JD	62	0	51	7	0
7	JF	62	0	51	7	0
7	KB	62	0	51	7	0
7	KD	62	0	51	7	0
7	KF	62	0	51	7	0
7	LB	62	0	51	7	0
7	LD	62	0	51	6	0
7	LF	62	0	51	6	0
7	MB	62	0	51	7	0
7	MD	62	0	51	6	0
7	MF	62	0	51	6	0
7	NB	62	0	51	6	0
7	ND	62	0	51	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	NF	62	0	51	6	0
All	All	292618	0	282184	12387	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 22.

All (12387) 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)
2:AE:283:HIS:O	3:NB:88:ARG:NH2	1.69	1.25
3:JD:221:THR:HA	2:JE:326:LYS:HZ3	1.01	1.14
2:IE:221:ARG:NH2	3:IF:327:GLU:OE2	1.82	1.13
3:JD:221:THR:HA	2:JE:326:LYS:NZ	1.61	1.12
2:ME:224:TYR:CE1	3:MF:325:MET:HG3	1.84	1.12
2:AE:400:ALA:HB3	3:AF:346:TRP:HH2	1.14	1.11
2:ME:400:ALA:HB3	3:MF:346:TRP:HH2	1.11	1.10
3:KB:401:ARG:NH2	2:KC:345:ASP:OD2	1.83	1.10
3:ND:394:GLN:HE22	2:NE:348:PRO:HG2	1.19	1.05
2:EE:400:ALA:HB3	3:EF:346:TRP:HH2	1.21	1.05
2:AE:221:ARG:HE	3:AF:324:SER:HB3	1.20	1.04
3:JB:222:PRO:HD2	2:JC:326:LYS:NZ	1.72	1.03
3:KD:401:ARG:NH2	2:KE:345:ASP:OD2	1.92	1.03
2:KA:222:PRO:O	3:KB:326:LYS:NZ	1.92	1.03
3:LF:60:LYS:NZ	3:MF:282:GLN:O	1.91	1.02
2:MA:400:ALA:HB3	3:MB:346:TRP:HH2	1.21	1.02
2:NE:224:TYR:CE1	3:NF:325:MET:HG3	1.96	1.01
2:AE:283:HIS:HB2	3:NB:88:ARG:HH12	1.27	1.00
1:1B:62:ASN:O	2:AC:309:HIS:HD2	1.45	1.00
2:KA:224:TYR:CE1	3:KB:325:MET:HG3	1.97	0.99
2:AE:283:HIS:C	3:NB:88:ARG:HH22	1.70	0.98
3:NB:401:ARG:O	2:NC:346:TRP:HH2	1.44	0.98
2:CA:221:ARG:HE	3:CB:324:SER:HB3	1.28	0.98
2:AE:221:ARG:NE	3:AF:324:SER:HB3	1.78	0.96
3:AB:403:ALA:HB2	2:AC:346:TRP:CH2	2.01	0.96
2:KC:222:PRO:O	3:KD:326:LYS:NZ	1.97	0.96
3:AB:394:GLN:HE22	2:AC:348:PRO:HG2	1.32	0.95
3:BB:394:GLN:HE22	2:BC:348:PRO:HG2	1.29	0.94
3:HF:276:THR:HG1	7:HF:502:TA1:H071	1.14	0.94
4:NA:501:GTP:O3G	3:NB:254:LYS:NZ	2.00	0.94
3:CB:222:PRO:HD2	2:CC:326:LYS:NZ	1.82	0.94
2:ME:400:ALA:HB3	3:MF:346:TRP:CH2	2.02	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:400:ALA:HB3	3:AF:346:TRP:CH2	2.03	0.94
2:KC:224:TYR:CE1	3:KD:325:MET:HG3	2.02	0.94
2:IA:221:ARG:NH2	3:IB:327:GLU:OE2	2.01	0.94
2:MC:400:ALA:HB3	3:MD:346:TRP:HH2	1.32	0.94
3:GD:222:PRO:HD2	2:GE:326:LYS:HZ3	1.33	0.93
3:NB:401:ARG:O	2:NC:346:TRP:CH2	2.20	0.93
2:LE:400:ALA:HB3	3:LF:346:TRP:HH2	1.32	0.93
3:GB:394:GLN:HE22	2:GC:348:PRO:HG2	1.34	0.93
3:EF:88:ARG:HH12	3:FF:283:TYR:HB2	1.31	0.93
2:AE:283:HIS:HB2	3:NB:88:ARG:NH1	1.84	0.92
3:MF:276:THR:HG1	7:MF:502:TA1:H071	1.16	0.92
3:MB:60:LYS:CE	3:NB:283:TYR:HA	1.98	0.92
3:CB:276:THR:HG1	7:CB:502:TA1:H071	1.15	0.92
3:MB:403:ALA:HB2	2:MC:346:TRP:CH2	2.04	0.92
4:NE:501:GTP:O3G	3:NF:254:LYS:NZ	2.03	0.91
2:LE:401:LYS:HD3	3:LF:346:TRP:HE1	1.34	0.91
2:CE:221:ARG:HE	3:CF:324:SER:HB3	1.33	0.91
3:JB:222:PRO:HD2	2:JC:326:LYS:HZ3	1.30	0.91
3:MB:222:PRO:HD2	2:MC:326:LYS:NZ	1.85	0.91
2:AA:221:ARG:NE	3:AB:324:SER:HB3	1.85	0.91
1:1B:61:HIS:NE2	2:AC:310:GLY:O	2.03	0.90
2:AE:280:LYS:HZ2	3:NB:89:PRO:HG2	1.36	0.90
3:AB:403:ALA:HB2	2:AC:346:TRP:CZ3	2.07	0.90
3:LF:60:LYS:HD3	3:MF:282:GLN:HE22	1.34	0.90
4:NC:501:GTP:O3G	3:ND:254:LYS:NZ	2.04	0.90
2:BC:400:ALA:HB3	3:BD:346:TRP:HH2	1.36	0.89
2:IC:221:ARG:NH2	3:ID:327:GLU:OE2	2.04	0.89
2:AE:280:LYS:NZ	3:NB:89:PRO:HG2	1.88	0.89
2:FA:401:LYS:HD3	3:FB:346:TRP:HE1	1.36	0.89
2:ME:224:TYR:CD1	3:MF:325:MET:HE2	2.08	0.88
2:MA:401:LYS:HD3	3:MB:346:TRP:HE1	1.38	0.88
3:KB:394:GLN:HE22	2:KC:348:PRO:HG2	1.36	0.88
2:CC:221:ARG:HE	3:CD:324:SER:HB3	1.38	0.88
2:NE:105:ARG:HH12	3:NF:253:ARG:HD2	1.36	0.88
3:ID:394:GLN:HE22	2:IE:348:PRO:HG2	1.36	0.88
2:AC:221:ARG:NE	3:AD:324:SER:HB3	1.89	0.87
2:BC:100:ALA:HA	3:BD:254:LYS:HD3	1.57	0.87
3:AD:222:PRO:HD2	2:AE:326:LYS:HZ3	1.40	0.86
2:MA:400:ALA:HB3	3:MB:346:TRP:CH2	2.10	0.86
3:BD:222:PRO:HD2	2:BE:326:LYS:HZ3	1.39	0.86
2:FC:401:LYS:HD3	3:FD:346:TRP:HE1	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:105:ARG:HH12	3:MF:253:ARG:HD2	1.41	0.85
1:1E:120:GLU:OE2	1:1E:124:ARG:NH1	2.09	0.85
1:1B:120:GLU:OE2	1:1B:124:ARG:NH1	2.09	0.85
3:HB:222:PRO:HD2	2:HC:326:LYS:HZ3	1.42	0.85
2:AC:221:ARG:HE	3:AD:324:SER:HB3	1.42	0.84
2:JE:400:ALA:HB3	3:JF:346:TRP:HH2	1.42	0.84
1:1A:120:GLU:OE2	1:1A:124:ARG:NH1	2.09	0.84
1:1C:61:HIS:CD2	2:AE:342:GLN:HB3	2.12	0.84
2:BE:400:ALA:HB3	3:BF:346:TRP:HH2	1.42	0.84
2:CE:221:ARG:NE	3:CF:324:SER:HB3	1.92	0.84
2:KA:224:TYR:HE1	3:KB:325:MET:HG3	1.41	0.84
2:BC:401:LYS:HD3	3:BD:346:TRP:HE1	1.42	0.84
2:AA:221:ARG:HE	3:AB:324:SER:HB3	1.42	0.84
3:AD:222:PRO:HD2	2:AE:326:LYS:NZ	1.92	0.84
2:MA:422:ARG:HB2	2:MA:425:MET:HE2	1.60	0.84
2:MC:422:ARG:HB2	2:MC:425:MET:HE2	1.60	0.84
2:NC:422:ARG:HB2	2:NC:425:MET:HE2	1.60	0.84
2:NE:422:ARG:HB2	2:NE:425:MET:HE2	1.60	0.84
1:1C:120:GLU:OE2	1:1C:124:ARG:NH1	2.09	0.83
1:1D:120:GLU:OE2	1:1D:124:ARG:NH1	2.09	0.83
2:AC:422:ARG:HB2	2:AC:425:MET:HE2	1.60	0.83
2:AE:422:ARG:HB2	2:AE:425:MET:HE2	1.60	0.83
2:LC:422:ARG:HB2	2:LC:425:MET:HE2	1.60	0.83
2:AA:422:ARG:HB2	2:AA:425:MET:HE2	1.61	0.83
2:ME:422:ARG:HB2	2:ME:425:MET:HE2	1.61	0.83
2:NA:422:ARG:HB2	2:NA:425:MET:HE2	1.61	0.83
1:1C:61:HIS:CE1	2:AE:342:GLN:H	1.95	0.83
2:KC:224:TYR:HE1	3:KD:325:MET:HG3	1.43	0.83
2:KE:422:ARG:HB2	2:KE:425:MET:HE2	1.60	0.83
2:LE:422:ARG:HB2	2:LE:425:MET:HE2	1.61	0.83
2:BA:422:ARG:HB2	2:BA:425:MET:HE2	1.60	0.83
2:BE:422:ARG:HB2	2:BE:425:MET:HE2	1.60	0.83
2:KC:422:ARG:HB2	2:KC:425:MET:HE2	1.60	0.83
2:LA:422:ARG:HB2	2:LA:425:MET:HE2	1.60	0.83
2:BC:422:ARG:HB2	2:BC:425:MET:HE2	1.60	0.83
3:BB:222:PRO:HD2	2:BC:326:LYS:HZ3	1.43	0.83
2:KA:422:ARG:HB2	2:KA:425:MET:HE2	1.60	0.83
2:JE:422:ARG:HB2	2:JE:425:MET:HE2	1.61	0.83
3:LD:276:THR:HG1	7:LD:502:TA1:H071	1.20	0.83
2:CC:422:ARG:HB2	2:CC:425:MET:HE2	1.60	0.83
2:JC:422:ARG:HB2	2:JC:425:MET:HE2	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:422:ARG:HB2	2:CA:425:MET:HE2	1.60	0.82
2:CE:422:ARG:HB2	2:CE:425:MET:HE2	1.60	0.82
2:EC:422:ARG:HB2	2:EC:425:MET:HE2	1.60	0.82
2:JA:422:ARG:HB2	2:JA:425:MET:HE2	1.61	0.82
2:DC:422:ARG:HB2	2:DC:425:MET:HE2	1.60	0.82
2:DE:422:ARG:HB2	2:DE:425:MET:HE2	1.61	0.82
3:EB:221:THR:HA	2:EC:326:LYS:HZ3	1.44	0.82
2:HA:422:ARG:HB2	2:HA:425:MET:HE2	1.60	0.82
2:HC:422:ARG:HB2	2:HC:425:MET:HE2	1.60	0.82
2:IA:422:ARG:HB2	2:IA:425:MET:HE2	1.60	0.82
2:FE:401:LYS:HD3	3:FF:346:TRP:HE1	1.41	0.82
2:IC:422:ARG:HB2	2:IC:425:MET:HE2	1.60	0.82
3:JB:221:THR:HA	2:JC:326:LYS:HZ3	1.43	0.82
3:KD:276:THR:HG1	7:KD:502:TA1:H071	1.21	0.82
3:MB:221:THR:HA	2:MC:326:LYS:HZ3	1.44	0.82
2:DA:422:ARG:HB2	2:DA:425:MET:HE2	1.60	0.82
2:GA:422:ARG:HB2	2:GA:425:MET:HE2	1.60	0.82
2:HE:422:ARG:HB2	2:HE:425:MET:HE2	1.60	0.82
2:IE:422:ARG:HB2	2:IE:425:MET:HE2	1.61	0.82
3:JD:221:THR:CA	2:JE:326:LYS:HZ3	1.90	0.82
3:EB:276:THR:HG1	7:EB:502:TA1:H071	1.25	0.82
2:EE:422:ARG:HB2	2:EE:425:MET:HE2	1.60	0.82
2:GC:422:ARG:HB2	2:GC:425:MET:HE2	1.61	0.82
2:AC:15:GLN:OE1	2:AC:228:ASN:ND2	2.13	0.82
2:AE:15:GLN:OE1	2:AE:228:ASN:ND2	2.13	0.82
2:FA:422:ARG:HB2	2:FA:425:MET:HE2	1.60	0.82
2:IC:15:GLN:OE1	2:IC:228:ASN:ND2	2.13	0.82
2:IE:15:GLN:OE1	2:IE:228:ASN:ND2	2.13	0.82
3:NB:401:ARG:C	2:NC:346:TRP:HH2	1.87	0.82
2:AA:15:GLN:OE1	2:AA:228:ASN:ND2	2.13	0.82
2:EA:422:ARG:HB2	2:EA:425:MET:HE2	1.60	0.82
2:FE:422:ARG:HB2	2:FE:425:MET:HE2	1.60	0.82
2:GE:422:ARG:HB2	2:GE:425:MET:HE2	1.60	0.82
2:IA:15:GLN:OE1	2:IA:228:ASN:ND2	2.13	0.82
3:MB:221:THR:HA	2:MC:326:LYS:NZ	1.94	0.82
2:BA:15:GLN:OE1	2:BA:228:ASN:ND2	2.13	0.82
2:JC:15:GLN:OE1	2:JC:228:ASN:ND2	2.13	0.82
2:NC:15:GLN:OE1	2:NC:228:ASN:ND2	2.13	0.82
2:NE:15:GLN:OE1	2:NE:228:ASN:ND2	2.13	0.82
2:BE:15:GLN:OE1	2:BE:228:ASN:ND2	2.13	0.81
2:FC:422:ARG:HB2	2:FC:425:MET:HE2	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:15:GLN:OE1	2:BC:228:ASN:ND2	2.13	0.81
2:JE:224:TYR:CE1	3:JF:325:MET:HG3	2.15	0.81
2:NA:15:GLN:OE1	2:NA:228:ASN:ND2	2.13	0.81
1:1C:62:ASN:HA	2:AE:308:ARG:O	1.80	0.81
3:CD:394:GLN:HE22	2:CE:348:PRO:HG2	1.46	0.81
2:EC:15:GLN:OE1	2:EC:228:ASN:ND2	2.13	0.81
2:HC:15:GLN:OE1	2:HC:228:ASN:ND2	2.13	0.81
2:HE:15:GLN:OE1	2:HE:228:ASN:ND2	2.13	0.81
2:ME:224:TYR:HD1	3:MF:325:MET:HE2	1.43	0.81
3:CB:222:PRO:HD2	2:CC:326:LYS:HZ3	1.45	0.81
2:EA:15:GLN:OE1	2:EA:228:ASN:ND2	2.13	0.81
2:EE:15:GLN:OE1	2:EE:228:ASN:ND2	2.13	0.81
2:HA:15:GLN:OE1	2:HA:228:ASN:ND2	2.13	0.81
3:JB:269:MET:HE2	3:JB:301:MET:HB2	1.63	0.81
2:MC:15:GLN:OE1	2:MC:228:ASN:ND2	2.13	0.81
3:MD:269:MET:HE2	3:MD:301:MET:HB2	1.63	0.81
2:ME:15:GLN:OE1	2:ME:228:ASN:ND2	2.13	0.81
3:JD:269:MET:HE2	3:JD:301:MET:HB2	1.63	0.81
3:KB:269:MET:HE2	3:KB:301:MET:HB2	1.63	0.81
3:KD:269:MET:HE2	3:KD:301:MET:HB2	1.63	0.81
3:KF:269:MET:HE2	3:KF:301:MET:HB2	1.63	0.81
3:LD:269:MET:HE2	3:LD:301:MET:HB2	1.63	0.81
3:LF:269:MET:HE2	3:LF:301:MET:HB2	1.63	0.81
3:MB:269:MET:HE2	3:MB:301:MET:HB2	1.63	0.81
3:MB:394:GLN:HE22	2:MC:348:PRO:HG2	1.46	0.81
3:MF:269:MET:HE2	3:MF:301:MET:HB2	1.63	0.81
2:CA:401:LYS:HD3	3:CB:346:TRP:HE1	1.45	0.81
2:FA:15:GLN:OE1	2:FA:228:ASN:ND2	2.13	0.81
2:FE:15:GLN:OE1	2:FE:228:ASN:ND2	2.13	0.81
3:LB:269:MET:HE2	3:LB:301:MET:HB2	1.63	0.81
3:NB:401:ARG:HD2	2:NC:346:TRP:CH2	2.15	0.81
3:AD:269:MET:HE2	3:AD:301:MET:HB2	1.63	0.81
3:AF:269:MET:HE2	3:AF:301:MET:HB2	1.63	0.81
2:CE:15:GLN:OE1	2:CE:228:ASN:ND2	2.13	0.81
3:JF:269:MET:HE2	3:JF:301:MET:HB2	1.63	0.81
3:NF:269:MET:HE2	3:NF:301:MET:HB2	1.63	0.81
2:AE:280:LYS:NZ	3:NB:89:PRO:CG	2.44	0.81
3:BF:269:MET:HE2	3:BF:301:MET:HB2	1.63	0.81
2:DC:15:GLN:OE1	2:DC:228:ASN:ND2	2.13	0.81
2:FC:15:GLN:OE1	2:FC:228:ASN:ND2	2.13	0.81
2:MA:15:GLN:OE1	2:MA:228:ASN:ND2	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:269:MET:HE2	3:ND:301:MET:HB2	1.63	0.81
3:AB:222:PRO:HD2	2:AC:326:LYS:NZ	1.96	0.81
3:AB:269:MET:HE2	3:AB:301:MET:HB2	1.63	0.81
3:BD:269:MET:HE2	3:BD:301:MET:HB2	1.63	0.81
2:DE:15:GLN:OE1	2:DE:228:ASN:ND2	2.13	0.81
3:ID:269:MET:HE2	3:ID:301:MET:HB2	1.63	0.81
3:IF:269:MET:HE2	3:IF:301:MET:HB2	1.63	0.81
2:ME:401:LYS:HD3	3:MF:346:TRP:HE1	1.45	0.81
3:NB:269:MET:HE2	3:NB:301:MET:HB2	1.63	0.81
2:NE:222:PRO:O	3:NF:326:LYS:NZ	2.14	0.81
2:CA:15:GLN:OE1	2:CA:228:ASN:ND2	2.13	0.81
2:CC:15:GLN:OE1	2:CC:228:ASN:ND2	2.13	0.81
3:CD:269:MET:HE2	3:CD:301:MET:HB2	1.63	0.81
2:DA:15:GLN:OE1	2:DA:228:ASN:ND2	2.13	0.81
3:EF:88:ARG:NH2	3:FF:283:TYR:HB3	1.95	0.81
2:FE:400:ALA:HB3	3:FF:346:TRP:HH2	1.45	0.81
3:IB:269:MET:HE2	3:IB:301:MET:HB2	1.63	0.81
2:LA:400:ALA:HB3	3:LB:346:TRP:HH2	1.45	0.81
2:LE:15:GLN:OE1	2:LE:228:ASN:ND2	2.13	0.81
2:ME:224:TYR:HE1	3:MF:325:MET:HG3	1.44	0.81
3:BB:269:MET:HE2	3:BB:301:MET:HB2	1.63	0.80
3:CB:269:MET:HE2	3:CB:301:MET:HB2	1.63	0.80
3:CF:269:MET:HE2	3:CF:301:MET:HB2	1.63	0.80
2:GA:15:GLN:OE1	2:GA:228:ASN:ND2	2.13	0.80
7:AB:502:TA1:H193	7:AB:502:TA1:H472	1.63	0.80
7:AD:502:TA1:H472	7:AD:502:TA1:H193	1.63	0.80
7:AF:502:TA1:H193	7:AF:502:TA1:H472	1.63	0.80
2:BC:101:ASN:H	3:BD:254:LYS:HZ2	1.27	0.80
7:BF:502:TA1:H472	7:BF:502:TA1:H193	1.63	0.80
2:LC:15:GLN:OE1	2:LC:228:ASN:ND2	2.13	0.80
2:ME:100:ALA:O	3:MF:257:VAL:HG11	1.81	0.80
2:GC:15:GLN:OE1	2:GC:228:ASN:ND2	2.13	0.80
3:KB:401:ARG:NH2	2:KC:345:ASP:CG	2.40	0.80
1:1A:62:ASN:HA	2:AA:308:ARG:O	1.80	0.80
7:BB:502:TA1:H193	7:BB:502:TA1:H472	1.63	0.80
7:BD:502:TA1:H193	7:BD:502:TA1:H472	1.63	0.80
7:DD:502:TA1:H472	7:DD:502:TA1:H193	1.63	0.80
3:DF:269:MET:HE2	3:DF:301:MET:HB2	1.63	0.80
7:DF:502:TA1:H193	7:DF:502:TA1:H472	1.63	0.80
3:EF:88:ARG:HH22	3:FF:283:TYR:HB3	1.46	0.80
2:GE:15:GLN:OE1	2:GE:228:ASN:ND2	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KE:15:GLN:OE1	2:KE:228:ASN:ND2	2.13	0.80
2:LA:15:GLN:OE1	2:LA:228:ASN:ND2	2.13	0.80
2:CA:221:ARG:NE	3:CB:324:SER:HB3	1.97	0.80
3:HD:269:MET:HE2	3:HD:301:MET:HB2	1.63	0.80
2:KC:15:GLN:OE1	2:KC:228:ASN:ND2	2.13	0.80
3:DB:269:MET:HE2	3:DB:301:MET:HB2	1.63	0.80
7:DB:502:TA1:H193	7:DB:502:TA1:H472	1.63	0.80
2:FC:150:THR:HB	2:FC:154:MET:HE1	1.64	0.80
3:FD:221:THR:HA	2:FE:326:LYS:HZ3	1.45	0.80
2:IC:150:THR:HB	2:IC:154:MET:HE1	1.64	0.80
2:IE:150:THR:HB	2:IE:154:MET:HE1	1.64	0.80
2:JA:15:GLN:OE1	2:JA:228:ASN:ND2	2.13	0.80
2:KA:15:GLN:OE1	2:KA:228:ASN:ND2	2.13	0.80
3:DD:269:MET:HE2	3:DD:301:MET:HB2	1.63	0.80
2:EA:150:THR:HB	2:EA:154:MET:HE1	1.64	0.80
3:GD:269:MET:HE2	3:GD:301:MET:HB2	1.63	0.80
3:GF:269:MET:HE2	3:GF:301:MET:HB2	1.63	0.80
3:HB:269:MET:HE2	3:HB:301:MET:HB2	1.63	0.80
2:KC:150:THR:HB	2:KC:154:MET:HE1	1.64	0.80
7:CD:502:TA1:H193	7:CD:502:TA1:H472	1.63	0.80
7:CF:502:TA1:H193	7:CF:502:TA1:H472	1.63	0.80
2:EE:150:THR:HB	2:EE:154:MET:HE1	1.64	0.80
2:FA:150:THR:HB	2:FA:154:MET:HE1	1.64	0.80
2:FE:150:THR:HB	2:FE:154:MET:HE1	1.64	0.80
2:HC:150:THR:HB	2:HC:154:MET:HE1	1.64	0.80
2:HE:150:THR:HB	2:HE:154:MET:HE1	1.64	0.80
3:HF:269:MET:HE2	3:HF:301:MET:HB2	1.63	0.80
2:IA:150:THR:HB	2:IA:154:MET:HE1	1.64	0.80
2:JE:15:GLN:OE1	2:JE:228:ASN:ND2	2.13	0.80
2:KE:150:THR:HB	2:KE:154:MET:HE1	1.64	0.80
3:CB:221:THR:HA	2:CC:326:LYS:HZ3	1.47	0.80
7:CB:502:TA1:H472	7:CB:502:TA1:H193	1.64	0.80
2:EC:150:THR:HB	2:EC:154:MET:HE1	1.64	0.80
2:KA:150:THR:HB	2:KA:154:MET:HE1	1.64	0.80
3:KD:394:GLN:HE22	2:KE:348:PRO:HG2	1.46	0.80
3:ND:394:GLN:NE2	2:NE:348:PRO:HG2	1.97	0.80
7:EF:502:TA1:H472	7:EF:502:TA1:H193	1.63	0.80
2:HA:150:THR:HB	2:HA:154:MET:HE1	1.64	0.80
7:MB:502:TA1:H193	7:MB:502:TA1:H472	1.64	0.80
4:ME:501:GTP:O3G	3:MF:254:LYS:NZ	2.14	0.80
7:MF:502:TA1:H472	7:MF:502:TA1:H193	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:61:HIS:CG	2:AE:342:GLN:HB3	2.17	0.79
3:EB:269:MET:HE2	3:EB:301:MET:HB2	1.63	0.79
3:ED:269:MET:HE2	3:ED:301:MET:HB2	1.63	0.79
3:GB:269:MET:HE2	3:GB:301:MET:HB2	1.63	0.79
2:JA:150:THR:HB	2:JA:154:MET:HE1	1.64	0.79
3:JB:221:THR:HA	2:JC:326:LYS:NZ	1.96	0.79
2:LA:150:THR:HB	2:LA:154:MET:HE1	1.64	0.79
7:NF:502:TA1:H193	7:NF:502:TA1:H472	1.63	0.79
1:1C:61:HIS:C	2:AE:308:ARG:NH1	2.40	0.79
3:EF:269:MET:HE2	3:EF:301:MET:HB2	1.63	0.79
3:FB:269:MET:HE2	3:FB:301:MET:HB2	1.63	0.79
3:FD:269:MET:HE2	3:FD:301:MET:HB2	1.63	0.79
2:GC:150:THR:HB	2:GC:154:MET:HE1	1.64	0.79
2:GE:150:THR:HB	2:GE:154:MET:HE1	1.64	0.79
2:JE:150:THR:HB	2:JE:154:MET:HE1	1.64	0.79
2:LE:150:THR:HB	2:LE:154:MET:HE1	1.64	0.79
3:MB:60:LYS:NZ	3:NB:283:TYR:HA	1.97	0.79
7:MD:502:TA1:H193	7:MD:502:TA1:H472	1.63	0.79
2:NC:105:ARG:HH12	3:ND:253:ARG:HD2	1.47	0.79
1:1C:36:LEU:HB2	1:1C:40:PHE:CE2	2.18	0.79
2:CA:150:THR:HB	2:CA:154:MET:HE1	1.64	0.79
7:ED:502:TA1:H193	7:ED:502:TA1:H472	1.63	0.79
2:JA:221:ARG:NH2	3:JB:327:GLU:OE2	2.14	0.79
2:JC:150:THR:HB	2:JC:154:MET:HE1	1.64	0.79
2:LC:150:THR:HB	2:LC:154:MET:HE1	1.64	0.79
2:NA:394:LYS:HZ3	3:NB:348:PRO:HG3	1.47	0.79
1:1A:36:LEU:HB2	1:1A:40:PHE:CE2	2.18	0.79
1:1B:36:LEU:HB2	1:1B:40:PHE:CE2	2.18	0.79
2:AC:400:ALA:HB3	3:AD:346:TRP:HH2	1.48	0.79
2:CC:150:THR:HB	2:CC:154:MET:HE1	1.64	0.79
2:CE:150:THR:HB	2:CE:154:MET:HE1	1.64	0.79
3:FF:269:MET:HE2	3:FF:301:MET:HB2	1.63	0.79
2:GA:150:THR:HB	2:GA:154:MET:HE1	1.64	0.79
7:ND:502:TA1:H193	7:ND:502:TA1:H472	1.63	0.79
1:1D:36:LEU:HB2	1:1D:40:PHE:CE2	2.18	0.79
2:DA:150:THR:HB	2:DA:154:MET:HE1	1.64	0.79
7:EB:502:TA1:H193	7:EB:502:TA1:H472	1.63	0.79
2:FC:400:ALA:HB3	3:FD:346:TRP:HH2	1.47	0.79
2:MC:150:THR:HB	2:MC:154:MET:HE1	1.64	0.79
1:1A:61:HIS:CG	2:AA:342:GLN:HB3	2.18	0.79
2:AE:150:THR:HB	2:AE:154:MET:HE1	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DC:150:THR:HB	2:DC:154:MET:HE1	1.64	0.79
2:DE:150:THR:HB	2:DE:154:MET:HE1	1.64	0.79
2:LC:400:ALA:HB3	3:LD:346:TRP:HH2	1.48	0.79
3:MD:394:GLN:HE22	2:ME:348:PRO:HG2	1.48	0.79
2:ME:150:THR:HB	2:ME:154:MET:HE1	1.64	0.79
7:IB:502:TA1:H472	7:IB:502:TA1:H193	1.63	0.79
2:NA:150:THR:HB	2:NA:154:MET:HE1	1.64	0.79
7:NB:502:TA1:H472	7:NB:502:TA1:H193	1.64	0.79
7:FD:502:TA1:H472	7:FD:502:TA1:H193	1.64	0.79
3:IB:276:THR:HG1	7:IB:502:TA1:H071	1.30	0.79
7:JB:502:TA1:H193	7:JB:502:TA1:H472	1.63	0.79
2:AA:150:THR:HB	2:AA:154:MET:HE1	1.64	0.79
2:AC:150:THR:HB	2:AC:154:MET:HE1	1.64	0.79
3:AF:276:THR:HG1	7:AF:502:TA1:H071	1.25	0.79
2:BA:150:THR:HB	2:BA:154:MET:HE1	1.64	0.79
3:EF:60:LYS:HE3	3:FF:282:GLN:NE2	1.97	0.79
7:FB:502:TA1:H472	7:FB:502:TA1:H193	1.64	0.79
2:MA:150:THR:HB	2:MA:154:MET:HE1	1.64	0.79
2:NC:150:THR:HB	2:NC:154:MET:HE1	1.64	0.79
1:1E:36:LEU:HB2	1:1E:40:PHE:CE2	2.18	0.79
7:HB:502:TA1:H472	7:HB:502:TA1:H193	1.63	0.79
2:KA:168:GLU:HB3	2:KA:201:ALA:HA	1.65	0.79
3:MB:60:LYS:HE3	3:NB:283:TYR:HA	1.65	0.79
2:DE:401:LYS:HD3	3:DF:346:TRP:HE1	1.48	0.78
2:EE:400:ALA:HB3	3:EF:346:TRP:CH2	2.12	0.78
7:FF:502:TA1:H193	7:FF:502:TA1:H472	1.63	0.78
7:HF:502:TA1:H193	7:HF:502:TA1:H472	1.63	0.78
2:IC:168:GLU:HB3	2:IC:201:ALA:HA	1.65	0.78
7:JD:502:TA1:H193	7:JD:502:TA1:H472	1.64	0.78
2:KC:168:GLU:HB3	2:KC:201:ALA:HA	1.65	0.78
2:LC:168:GLU:HB3	2:LC:201:ALA:HA	1.65	0.78
2:MA:168:GLU:HB3	2:MA:201:ALA:HA	1.65	0.78
2:NC:168:GLU:HB3	2:NC:201:ALA:HA	1.65	0.78
2:BC:150:THR:HB	2:BC:154:MET:HE1	1.64	0.78
2:IA:168:GLU:HB3	2:IA:201:ALA:HA	1.65	0.78
7:ID:502:TA1:H472	7:ID:502:TA1:H193	1.63	0.78
2:JA:168:GLU:HB3	2:JA:201:ALA:HA	1.65	0.78
2:JC:168:GLU:HB3	2:JC:201:ALA:HA	1.66	0.78
2:JE:168:GLU:HB3	2:JE:201:ALA:HA	1.65	0.78
7:KD:502:TA1:H193	7:KD:502:TA1:H472	1.63	0.78
2:KE:168:GLU:HB3	2:KE:201:ALA:HA	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LA:168:GLU:HB3	2:LA:201:ALA:HA	1.65	0.78
7:LB:502:TA1:H193	7:LB:502:TA1:H472	1.63	0.78
2:LE:168:GLU:HB3	2:LE:201:ALA:HA	1.65	0.78
2:NA:168:GLU:HB3	2:NA:201:ALA:HA	1.65	0.78
2:NE:168:GLU:HB3	2:NE:201:ALA:HA	1.65	0.78
2:BE:150:THR:HB	2:BE:154:MET:HE1	1.64	0.78
3:HB:276:THR:HG1	7:HB:502:TA1:H071	1.29	0.78
7:HD:502:TA1:H193	7:HD:502:TA1:H472	1.63	0.78
2:HE:168:GLU:HB3	2:HE:201:ALA:HA	1.65	0.78
2:IE:168:GLU:HB3	2:IE:201:ALA:HA	1.65	0.78
7:IF:502:TA1:H193	7:IF:502:TA1:H472	1.63	0.78
7:JF:502:TA1:H472	7:JF:502:TA1:H193	1.64	0.78
2:KA:221:ARG:NH2	3:KB:327:GLU:OE2	2.17	0.78
7:KB:502:TA1:H472	7:KB:502:TA1:H193	1.63	0.78
2:KE:224:TYR:CE1	3:KF:325:MET:HG3	2.17	0.78
2:ME:168:GLU:HB3	2:ME:201:ALA:HA	1.65	0.78
2:GA:168:GLU:HB3	2:GA:201:ALA:HA	1.65	0.78
7:GB:502:TA1:H193	7:GB:502:TA1:H472	1.63	0.78
2:GC:168:GLU:HB3	2:GC:201:ALA:HA	1.65	0.78
2:GE:168:GLU:HB3	2:GE:201:ALA:HA	1.65	0.78
7:GF:502:TA1:H472	7:GF:502:TA1:H193	1.63	0.78
2:HA:168:GLU:HB3	2:HA:201:ALA:HA	1.65	0.78
2:HC:168:GLU:HB3	2:HC:201:ALA:HA	1.65	0.78
7:KF:502:TA1:H193	7:KF:502:TA1:H472	1.63	0.78
7:LD:502:TA1:H472	7:LD:502:TA1:H193	1.63	0.78
2:MC:168:GLU:HB3	2:MC:201:ALA:HA	1.65	0.78
2:NE:150:THR:HB	2:NE:154:MET:HE1	1.64	0.78
2:AA:168:GLU:HB3	2:AA:201:ALA:HA	1.65	0.78
2:AE:168:GLU:HB3	2:AE:201:ALA:HA	1.65	0.78
7:LF:502:TA1:H193	7:LF:502:TA1:H472	1.63	0.78
2:AC:168:GLU:HB3	2:AC:201:ALA:HA	1.65	0.78
3:AD:276:THR:HG1	7:AD:502:TA1:H071	1.25	0.78
7:GD:502:TA1:H472	7:GD:502:TA1:H193	1.63	0.78
2:BA:168:GLU:HB3	2:BA:201:ALA:HA	1.65	0.78
2:LC:105:ARG:HH12	3:LD:253:ARG:HD2	1.48	0.78
3:LF:60:LYS:CD	3:MF:282:GLN:HE22	1.97	0.78
3:MB:222:PRO:HD2	2:MC:326:LYS:HZ3	1.46	0.78
2:BC:168:GLU:HB3	2:BC:201:ALA:HA	1.65	0.78
2:BE:168:GLU:HB3	2:BE:201:ALA:HA	1.65	0.78
3:HD:276:THR:HG1	7:HD:502:TA1:H071	1.29	0.78
4:JE:501:GTP:O1G	3:JF:254:LYS:NZ	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:400:ALA:HB3	3:BD:346:TRP:CH2	2.19	0.78
2:EC:168:GLU:HB3	2:EC:201:ALA:HA	1.65	0.78
2:EE:168:GLU:HB3	2:EE:201:ALA:HA	1.65	0.78
2:HA:221:ARG:HE	3:HB:324:SER:HB3	1.49	0.78
2:EA:168:GLU:HB3	2:EA:201:ALA:HA	1.66	0.77
2:NC:224:TYR:CE1	3:ND:325:MET:HG3	2.18	0.77
2:AE:283:HIS:CB	3:NB:88:ARG:NH1	2.47	0.77
2:FC:168:GLU:HB3	2:FC:201:ALA:HA	1.65	0.77
3:JD:403:ALA:HB2	2:JE:346:TRP:CH2	2.19	0.77
2:NA:101:ASN:H	3:NB:254:LYS:NZ	1.83	0.77
4:EE:501:GTP:O3G	3:EF:254:LYS:NZ	2.17	0.77
2:FA:168:GLU:HB3	2:FA:201:ALA:HA	1.65	0.77
2:FE:168:GLU:HB3	2:FE:201:ALA:HA	1.65	0.77
3:NB:407:TRP:CE2	2:NC:257:THR:HG22	2.19	0.77
1:1E:67:ASN:OD1	3:NF:116:ASP:HB3	1.83	0.77
2:LA:401:LYS:HD3	3:LB:346:TRP:HE1	1.49	0.77
2:DA:168:GLU:HB3	2:DA:201:ALA:HA	1.65	0.77
2:FA:401:LYS:HD3	3:FB:346:TRP:NE1	1.97	0.77
2:DE:168:GLU:HB3	2:DE:201:ALA:HA	1.65	0.77
2:FA:401:LYS:CD	3:FB:346:TRP:HE1	1.97	0.77
2:AE:280:LYS:HZ2	3:NB:89:PRO:CG	1.97	0.77
2:CE:168:GLU:HB3	2:CE:201:ALA:HA	1.65	0.77
2:DC:168:GLU:HB3	2:DC:201:ALA:HA	1.65	0.77
2:KC:400:ALA:HB3	3:KD:346:TRP:HH2	1.49	0.77
1:1A:61:HIS:CE1	2:AA:342:GLN:H	2.03	0.77
3:BD:276:THR:HG1	7:BD:502:TA1:H071	1.32	0.77
2:EE:224:TYR:CE1	3:EF:325:MET:HG3	2.20	0.77
2:IA:222:PRO:O	3:IB:326:LYS:NZ	2.18	0.77
1:1B:62:ASN:HA	2:AC:308:ARG:O	1.85	0.77
3:BB:276:THR:HG1	7:BB:502:TA1:H071	1.33	0.77
3:BF:276:THR:HG1	7:BF:502:TA1:H071	1.32	0.77
2:CC:168:GLU:HB3	2:CC:201:ALA:HA	1.66	0.77
3:JB:60:LYS:CE	3:KB:283:TYR:HA	2.15	0.77
2:CA:168:GLU:HB3	2:CA:201:ALA:HA	1.65	0.76
1:1B:62:ASN:O	2:AC:309:HIS:CD2	2.36	0.76
2:CC:221:ARG:NE	3:CD:324:SER:HB3	2.00	0.76
2:BC:101:ASN:N	3:BD:254:LYS:HZ2	1.83	0.76
3:GD:15:GLN:NE2	6:GD:501:GDP:O6	2.19	0.76
3:HB:15:GLN:NE2	6:HB:501:GDP:O6	2.19	0.76
3:GB:15:GLN:NE2	6:GB:501:GDP:O6	2.19	0.76
3:GF:15:GLN:NE2	6:GF:501:GDP:O6	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:15:GLN:NE2	6:HD:501:GDP:O6	2.19	0.76
3:MD:15:GLN:NE2	6:MD:501:GDP:O6	2.19	0.76
3:DB:15:GLN:NE2	6:DB:501:GDP:O6	2.19	0.76
3:HF:15:GLN:NE2	6:HF:501:GDP:O6	2.19	0.76
3:KF:15:GLN:NE2	6:KF:501:GDP:O6	2.19	0.76
3:MB:15:GLN:NE2	6:MB:501:GDP:O6	2.19	0.76
3:BB:15:GLN:NE2	6:BB:501:GDP:O6	2.19	0.76
3:DD:15:GLN:NE2	6:DD:501:GDP:O6	2.19	0.76
3:DF:15:GLN:NE2	6:DF:501:GDP:O6	2.19	0.76
3:FB:15:GLN:NE2	6:FB:501:GDP:O6	2.19	0.76
3:KD:15:GLN:NE2	6:KD:501:GDP:O6	2.19	0.76
3:MF:15:GLN:NE2	6:MF:501:GDP:O6	2.19	0.76
3:BD:15:GLN:NE2	6:BD:501:GDP:O6	2.19	0.76
3:FD:15:GLN:NE2	6:FD:501:GDP:O6	2.19	0.76
3:FF:15:GLN:NE2	6:FF:501:GDP:O6	2.19	0.76
3:JF:15:GLN:NE2	6:JF:501:GDP:O6	2.19	0.76
3:EB:15:GLN:NE2	6:EB:501:GDP:O6	2.19	0.76
3:IF:15:GLN:NE2	6:IF:501:GDP:O6	2.19	0.76
3:JB:15:GLN:NE2	6:JB:501:GDP:O6	2.19	0.76
3:JD:15:GLN:NE2	6:JD:501:GDP:O6	2.19	0.76
3:LF:15:GLN:NE2	6:LF:501:GDP:O6	2.19	0.76
3:AD:15:GLN:NE2	6:AD:501:GDP:O6	2.19	0.76
2:AE:283:HIS:CB	3:NB:88:ARG:HH12	1.98	0.76
3:AF:15:GLN:NE2	6:AF:501:GDP:O6	2.19	0.76
3:BF:15:GLN:NE2	6:BF:501:GDP:O6	2.19	0.76
3:ED:15:GLN:NE2	6:ED:501:GDP:O6	2.19	0.76
4:FE:501:GTP:O3G	3:FF:254:LYS:NZ	2.18	0.76
3:IB:15:GLN:NE2	6:IB:501:GDP:O6	2.19	0.76
3:ID:15:GLN:NE2	6:ID:501:GDP:O6	2.19	0.76
2:IE:222:PRO:HD2	3:IF:326:LYS:HE2	1.68	0.76
3:KB:15:GLN:NE2	6:KB:501:GDP:O6	2.19	0.76
3:NB:15:GLN:NE2	6:NB:501:GDP:O6	2.19	0.76
2:DA:105:ARG:HH12	3:DB:253:ARG:HD2	1.51	0.75
3:LB:15:GLN:NE2	6:LB:501:GDP:O6	2.19	0.75
3:LB:394:GLN:HE22	2:LC:348:PRO:HG2	1.49	0.75
3:AB:403:ALA:CB	2:AC:346:TRP:CZ3	2.69	0.75
2:BA:221:ARG:HE	3:BB:324:SER:HB3	1.49	0.75
3:KB:325:MET:N	3:KB:325:MET:SD	2.60	0.75
3:LD:15:GLN:NE2	6:LD:501:GDP:O6	2.19	0.75
3:NB:325:MET:N	3:NB:325:MET:SD	2.60	0.75
3:AB:15:GLN:NE2	6:AB:501:GDP:O6	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:325:MET:N	3:AD:325:MET:SD	2.60	0.75
3:KD:325:MET:SD	3:KD:325:MET:N	2.60	0.75
3:KF:325:MET:N	3:KF:325:MET:SD	2.60	0.75
3:ND:15:GLN:NE2	6:ND:501:GDP:O6	2.19	0.75
3:ND:325:MET:SD	3:ND:325:MET:N	2.60	0.75
3:NF:15:GLN:NE2	6:NF:501:GDP:O6	2.19	0.75
3:AB:325:MET:N	3:AB:325:MET:SD	2.60	0.75
3:AF:325:MET:SD	3:AF:325:MET:N	2.60	0.75
3:EF:15:GLN:NE2	6:EF:501:GDP:O6	2.19	0.75
2:LE:400:ALA:HB3	3:LF:346:TRP:CH2	2.20	0.75
3:NF:325:MET:N	3:NF:325:MET:SD	2.60	0.75
1:1C:78:HIS:CD2	1:1C:82:LYS:HE3	2.21	0.75
3:AF:327:GLU:O	3:AF:331:GLN:NE2	2.20	0.75
3:CB:327:GLU:O	3:CB:331:GLN:NE2	2.20	0.75
3:CD:327:GLU:O	3:CD:331:GLN:NE2	2.20	0.75
3:CF:327:GLU:O	3:CF:331:GLN:NE2	2.20	0.75
2:DE:400:ALA:HB3	3:DF:346:TRP:HH2	1.51	0.75
2:FC:221:ARG:HE	3:FD:324:SER:HB3	1.49	0.75
3:HB:325:MET:N	3:HB:325:MET:SD	2.60	0.75
3:HD:325:MET:N	3:HD:325:MET:SD	2.60	0.75
3:LD:325:MET:N	3:LD:325:MET:SD	2.60	0.75
3:LF:325:MET:SD	3:LF:325:MET:N	2.60	0.75
3:NB:327:GLU:O	3:NB:331:GLN:NE2	2.20	0.75
3:ND:327:GLU:O	3:ND:331:GLN:NE2	2.20	0.75
3:AB:327:GLU:O	3:AB:331:GLN:NE2	2.20	0.75
3:CD:15:GLN:NE2	6:CD:501:GDP:O6	2.19	0.75
3:CF:15:GLN:NE2	6:CF:501:GDP:O6	2.19	0.75
3:DF:327:GLU:O	3:DF:331:GLN:NE2	2.20	0.75
3:GB:325:MET:N	3:GB:325:MET:SD	2.60	0.75
3:GD:325:MET:N	3:GD:325:MET:SD	2.60	0.75
3:HF:325:MET:N	3:HF:325:MET:SD	2.60	0.75
3:KB:327:GLU:O	3:KB:331:GLN:NE2	2.20	0.75
3:KD:327:GLU:O	3:KD:331:GLN:NE2	2.20	0.75
3:KF:327:GLU:O	3:KF:331:GLN:NE2	2.20	0.75
3:LB:325:MET:N	3:LB:325:MET:SD	2.60	0.75
3:AD:327:GLU:O	3:AD:331:GLN:NE2	2.20	0.75
3:BD:327:GLU:O	3:BD:331:GLN:NE2	2.20	0.75
3:DD:327:GLU:O	3:DD:331:GLN:NE2	2.20	0.75
3:FB:325:MET:N	3:FB:325:MET:SD	2.60	0.75
3:HB:327:GLU:O	3:HB:331:GLN:NE2	2.20	0.75
3:IF:325:MET:SD	3:IF:325:MET:N	2.60	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:325:MET:N	3:MF:325:MET:SD	2.60	0.75
4:NE:501:GTP:PG	3:NF:254:LYS:HZ1	2.09	0.75
3:NF:327:GLU:O	3:NF:331:GLN:NE2	2.20	0.75
1:1C:62:ASN:O	2:AE:309:HIS:HD2	1.70	0.75
1:1D:78:HIS:CD2	1:1D:82:LYS:HE3	2.22	0.75
2:AC:105:ARG:HH12	3:AD:253:ARG:HD2	1.52	0.75
3:BB:325:MET:SD	3:BB:325:MET:N	2.60	0.75
3:BB:327:GLU:O	3:BB:331:GLN:NE2	2.20	0.75
3:BF:327:GLU:O	3:BF:331:GLN:NE2	2.20	0.75
3:DB:327:GLU:O	3:DB:331:GLN:NE2	2.20	0.75
3:EB:325:MET:SD	3:EB:325:MET:N	2.60	0.75
3:FD:325:MET:N	3:FD:325:MET:SD	2.60	0.75
3:GF:325:MET:N	3:GF:325:MET:SD	2.60	0.75
3:HD:327:GLU:O	3:HD:331:GLN:NE2	2.20	0.75
3:HF:327:GLU:O	3:HF:331:GLN:NE2	2.20	0.75
3:IB:327:GLU:O	3:IB:331:GLN:NE2	2.20	0.75
3:JB:222:PRO:HD2	2:JC:326:LYS:HZ2	1.51	0.75
3:JB:325:MET:N	3:JB:325:MET:SD	2.60	0.75
3:LF:276:THR:HG1	7:LF:502:TA1:H071	1.32	0.75
3:LF:327:GLU:O	3:LF:331:GLN:NE2	2.20	0.75
3:MB:195:VAL:HG21	3:MB:428:LEU:HD21	1.69	0.75
1:1E:78:HIS:CD2	1:1E:82:LYS:HE3	2.21	0.75
3:CB:15:GLN:NE2	6:CB:501:GDP:O6	2.19	0.75
3:DF:195:VAL:HG21	3:DF:428:LEU:HD21	1.69	0.75
3:ID:325:MET:N	3:ID:325:MET:SD	2.60	0.75
3:JB:222:PRO:CD	2:JC:326:LYS:HZ3	2.00	0.75
3:JB:276:THR:HG1	7:JB:502:TA1:H071	1.32	0.75
3:LD:327:GLU:O	3:LD:331:GLN:NE2	2.20	0.75
3:MB:325:MET:SD	3:MB:325:MET:N	2.60	0.75
3:MD:195:VAL:HG21	3:MD:428:LEU:HD21	1.69	0.75
3:MF:195:VAL:HG21	3:MF:428:LEU:HD21	1.69	0.75
2:NE:224:TYR:HE1	3:NF:325:MET:HG3	1.45	0.75
3:AF:195:VAL:HG21	3:AF:428:LEU:HD21	1.69	0.74
3:BD:325:MET:N	3:BD:325:MET:SD	2.60	0.74
3:CD:195:VAL:HG21	3:CD:428:LEU:HD21	1.69	0.74
3:CF:195:VAL:HG21	3:CF:428:LEU:HD21	1.69	0.74
3:DB:325:MET:N	3:DB:325:MET:SD	2.60	0.74
3:ED:325:MET:N	3:ED:325:MET:SD	2.60	0.74
3:FF:325:MET:N	3:FF:325:MET:SD	2.60	0.74
3:GB:327:GLU:O	3:GB:331:GLN:NE2	2.20	0.74
3:IB:325:MET:N	3:IB:325:MET:SD	2.60	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:327:GLU:O	3:ID:331:GLN:NE2	2.20	0.74
2:JE:401:LYS:CE	3:JF:346:TRP:HE1	2.00	0.74
3:LB:327:GLU:O	3:LB:331:GLN:NE2	2.20	0.74
3:MD:325:MET:N	3:MD:325:MET:SD	2.60	0.74
3:NB:401:ARG:HD2	2:NC:346:TRP:CZ2	2.21	0.74
3:BD:47:GLU:HG2	3:BD:48:ARG:HG2	1.69	0.74
3:BF:195:VAL:HG21	3:BF:428:LEU:HD21	1.69	0.74
3:CB:195:VAL:HG21	3:CB:428:LEU:HD21	1.69	0.74
3:CB:325:MET:N	3:CB:325:MET:SD	2.60	0.74
3:DD:325:MET:N	3:DD:325:MET:SD	2.60	0.74
3:EB:332:MET:HB3	3:EB:351:VAL:HG11	1.69	0.74
2:EE:105:ARG:HH12	3:EF:253:ARG:HD2	1.51	0.74
3:EF:327:GLU:O	3:EF:331:GLN:NE2	2.20	0.74
3:GD:327:GLU:O	3:GD:331:GLN:NE2	2.20	0.74
3:ID:401:ARG:NH2	2:IE:345:ASP:OD2	2.21	0.74
3:IF:327:GLU:O	3:IF:331:GLN:NE2	2.20	0.74
3:JD:325:MET:N	3:JD:325:MET:SD	2.60	0.74
3:NB:47:GLU:HG2	3:NB:48:ARG:HG2	1.69	0.74
3:NF:195:VAL:HG21	3:NF:428:LEU:HD21	1.69	0.74
3:AB:47:GLU:HG2	3:AB:48:ARG:HG2	1.69	0.74
3:AD:47:GLU:HG2	3:AD:48:ARG:HG2	1.69	0.74
3:AD:195:VAL:HG21	3:AD:428:LEU:HD21	1.69	0.74
3:AF:47:GLU:HG2	3:AF:48:ARG:HG2	1.69	0.74
3:BB:47:GLU:HG2	3:BB:48:ARG:HG2	1.70	0.74
3:BD:195:VAL:HG21	3:BD:428:LEU:HD21	1.69	0.74
3:CD:325:MET:SD	3:CD:325:MET:N	2.60	0.74
3:CF:325:MET:N	3:CF:325:MET:SD	2.60	0.74
3:ED:332:MET:HB3	3:ED:351:VAL:HG11	1.69	0.74
3:EF:332:MET:HB3	3:EF:351:VAL:HG11	1.69	0.74
3:JB:327:GLU:O	3:JB:331:GLN:NE2	2.20	0.74
3:JF:325:MET:N	3:JF:325:MET:SD	2.60	0.74
4:KE:501:GTP:O3G	3:KF:254:LYS:NZ	2.20	0.74
3:LF:195:VAL:HG21	3:LF:428:LEU:HD21	1.69	0.74
3:NF:47:GLU:HG2	3:NF:48:ARG:HG2	1.69	0.74
1:1A:80:ASN:HD22	1:1A:84:LEU:HD22	1.53	0.74
1:1B:36:LEU:HB2	1:1B:40:PHE:HE2	1.50	0.74
1:1B:78:HIS:CD2	1:1B:82:LYS:HE3	2.21	0.74
1:1B:80:ASN:HD22	1:1B:84:LEU:HD22	1.53	0.74
3:BF:47:GLU:HG2	3:BF:48:ARG:HG2	1.70	0.74
3:BF:325:MET:N	3:BF:325:MET:SD	2.60	0.74
3:CB:47:GLU:HG2	3:CB:48:ARG:HG2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:47:GLU:HG2	3:DB:48:ARG:HG2	1.69	0.74
3:DD:47:GLU:HG2	3:DD:48:ARG:HG2	1.69	0.74
3:DD:332:MET:HB3	3:DD:351:VAL:HG11	1.69	0.74
3:EF:325:MET:N	3:EF:325:MET:SD	2.60	0.74
3:FB:332:MET:HB3	3:FB:351:VAL:HG11	1.69	0.74
3:FF:195:VAL:HG21	3:FF:428:LEU:HD21	1.69	0.74
3:KD:195:VAL:HG21	3:KD:428:LEU:HD21	1.69	0.74
3:ND:47:GLU:HG2	3:ND:48:ARG:HG2	1.69	0.74
3:ND:195:VAL:HG21	3:ND:428:LEU:HD21	1.69	0.74
1:1A:78:HIS:CD2	1:1A:82:LYS:HE3	2.22	0.74
1:1C:80:ASN:HD22	1:1C:84:LEU:HD22	1.53	0.74
1:1D:80:ASN:HD22	1:1D:84:LEU:HD22	1.53	0.74
3:AB:195:VAL:HG21	3:AB:428:LEU:HD21	1.69	0.74
3:BB:195:VAL:HG21	3:BB:428:LEU:HD21	1.69	0.74
3:CF:47:GLU:HG2	3:CF:48:ARG:HG2	1.69	0.74
3:DB:195:VAL:HG21	3:DB:428:LEU:HD21	1.69	0.74
3:DD:195:VAL:HG21	3:DD:428:LEU:HD21	1.69	0.74
3:ED:327:GLU:O	3:ED:331:GLN:NE2	2.20	0.74
3:EF:195:VAL:HG21	3:EF:428:LEU:HD21	1.69	0.74
3:FD:332:MET:HB3	3:FD:351:VAL:HG11	1.69	0.74
3:GF:327:GLU:O	3:GF:331:GLN:NE2	2.20	0.74
2:KA:394:LYS:HD2	3:KB:348:PRO:HG3	1.70	0.74
3:LD:195:VAL:HG21	3:LD:428:LEU:HD21	1.69	0.74
3:NB:195:VAL:HG21	3:NB:428:LEU:HD21	1.69	0.74
1:1E:80:ASN:HD22	1:1E:84:LEU:HD22	1.53	0.74
3:CD:47:GLU:HG2	3:CD:48:ARG:HG2	1.69	0.74
3:DB:332:MET:HB3	3:DB:351:VAL:HG11	1.69	0.74
3:DF:325:MET:SD	3:DF:325:MET:N	2.60	0.74
3:DF:332:MET:HB3	3:DF:351:VAL:HG11	1.69	0.74
3:EB:47:GLU:HG2	3:EB:48:ARG:HG2	1.69	0.74
3:ED:47:GLU:HG2	3:ED:48:ARG:HG2	1.69	0.74
3:FF:332:MET:HB3	3:FF:351:VAL:HG11	1.69	0.74
3:GB:332:MET:HB3	3:GB:351:VAL:HG11	1.69	0.74
3:HF:332:MET:HB3	3:HF:351:VAL:HG11	1.69	0.74
3:JD:327:GLU:O	3:JD:331:GLN:NE2	2.20	0.74
3:JF:195:VAL:HG21	3:JF:428:LEU:HD21	1.69	0.74
3:KF:195:VAL:HG21	3:KF:428:LEU:HD21	1.69	0.74
3:MF:327:GLU:O	3:MF:331:GLN:NE2	2.20	0.74
3:GF:195:VAL:HG21	3:GF:428:LEU:HD21	1.69	0.74
3:IF:195:VAL:HG21	3:IF:428:LEU:HD21	1.69	0.74
3:JD:195:VAL:HG21	3:JD:428:LEU:HD21	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:327:GLU:O	3:JF:331:GLN:NE2	2.20	0.74
3:KB:195:VAL:HG21	3:KB:428:LEU:HD21	1.69	0.74
3:LB:47:GLU:HG2	3:LB:48:ARG:HG2	1.69	0.74
3:LB:195:VAL:HG21	3:LB:428:LEU:HD21	1.69	0.74
1:1E:36:LEU:HB2	1:1E:40:PHE:HE2	1.50	0.74
3:BD:222:PRO:HD2	2:BE:326:LYS:NZ	2.02	0.74
3:CD:332:MET:HB3	3:CD:351:VAL:HG11	1.69	0.74
3:CF:332:MET:HB3	3:CF:351:VAL:HG11	1.69	0.74
3:EB:327:GLU:O	3:EB:331:GLN:NE2	2.20	0.74
3:ED:195:VAL:HG21	3:ED:428:LEU:HD21	1.69	0.74
3:FD:195:VAL:HG21	3:FD:428:LEU:HD21	1.69	0.74
3:FD:221:THR:HA	2:FE:326:LYS:NZ	2.01	0.74
3:GF:332:MET:HB3	3:GF:351:VAL:HG11	1.69	0.74
3:KB:47:GLU:HG2	3:KB:48:ARG:HG2	1.69	0.74
3:LD:47:GLU:HG2	3:LD:48:ARG:HG2	1.69	0.74
3:MB:327:GLU:O	3:MB:331:GLN:NE2	2.20	0.74
3:CB:332:MET:HB3	3:CB:351:VAL:HG11	1.69	0.74
3:DF:47:GLU:HG2	3:DF:48:ARG:HG2	1.69	0.74
3:FB:195:VAL:HG21	3:FB:428:LEU:HD21	1.69	0.74
3:HD:332:MET:HB3	3:HD:351:VAL:HG11	1.69	0.74
3:ID:195:VAL:HG21	3:ID:428:LEU:HD21	1.69	0.74
2:KE:400:ALA:HB3	3:KF:346:TRP:HH2	1.52	0.74
3:EB:195:VAL:HG21	3:EB:428:LEU:HD21	1.69	0.74
3:EF:47:GLU:HG2	3:EF:48:ARG:HG2	1.69	0.74
3:FF:327:GLU:O	3:FF:331:GLN:NE2	2.20	0.74
3:HB:332:MET:HB3	3:HB:351:VAL:HG11	1.69	0.74
3:ID:332:MET:HB3	3:ID:351:VAL:HG11	1.69	0.74
3:KD:47:GLU:HG2	3:KD:48:ARG:HG2	1.69	0.74
3:LF:47:GLU:HG2	3:LF:48:ARG:HG2	1.69	0.74
3:MB:47:GLU:HG2	3:MB:48:ARG:HG2	1.69	0.74
3:MD:327:GLU:O	3:MD:331:GLN:NE2	2.20	0.74
3:FB:327:GLU:O	3:FB:331:GLN:NE2	2.20	0.73
3:FD:327:GLU:O	3:FD:331:GLN:NE2	2.20	0.73
3:GD:195:VAL:HG21	3:GD:428:LEU:HD21	1.69	0.73
3:GD:332:MET:HB3	3:GD:351:VAL:HG11	1.69	0.73
3:IB:332:MET:HB3	3:IB:351:VAL:HG11	1.69	0.73
3:JB:195:VAL:HG21	3:JB:428:LEU:HD21	1.69	0.73
2:LC:224:TYR:CE1	3:LD:325:MET:HG3	2.22	0.73
3:MD:47:GLU:HG2	3:MD:48:ARG:HG2	1.69	0.73
3:MF:47:GLU:HG2	3:MF:48:ARG:HG2	1.69	0.73
1:1A:81:ARG:NH2	2:AA:386:GLU:OE2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:284:GLU:OE2	3:NB:88:ARG:NH1	2.20	0.73
3:HF:195:VAL:HG21	3:HF:428:LEU:HD21	1.69	0.73
3:IB:195:VAL:HG21	3:IB:428:LEU:HD21	1.69	0.73
3:IF:332:MET:HB3	3:IF:351:VAL:HG11	1.69	0.73
2:JC:105:ARG:HH12	3:JD:253:ARG:HD2	1.53	0.73
2:JE:407:TRP:CH2	3:JF:260:VAL:O	2.40	0.73
3:KD:403:ALA:HB2	2:KE:346:TRP:CZ3	2.23	0.73
3:EF:88:ARG:NH1	3:FF:283:TYR:HB2	2.03	0.73
3:HD:195:VAL:HG21	3:HD:428:LEU:HD21	1.69	0.73
1:1A:36:LEU:HB2	1:1A:40:PHE:HE2	1.50	0.73
3:BB:332:MET:HB3	3:BB:351:VAL:HG11	1.69	0.73
3:GB:195:VAL:HG21	3:GB:428:LEU:HD21	1.69	0.73
3:JB:47:GLU:HG2	3:JB:48:ARG:HG2	1.69	0.73
3:BD:332:MET:HB3	3:BD:351:VAL:HG11	1.69	0.73
3:BF:332:MET:HB3	3:BF:351:VAL:HG11	1.69	0.73
3:FD:47:GLU:HG2	3:FD:48:ARG:HG2	1.69	0.73
3:KF:47:GLU:HG2	3:KF:48:ARG:HG2	1.69	0.73
3:LB:332:MET:HB3	3:LB:351:VAL:HG11	1.69	0.73
2:LE:100:ALA:HA	3:LF:254:LYS:HD3	1.70	0.73
3:FB:47:GLU:HG2	3:FB:48:ARG:HG2	1.69	0.73
3:FF:47:GLU:HG2	3:FF:48:ARG:HG2	1.69	0.73
3:GB:47:GLU:HG2	3:GB:48:ARG:HG2	1.69	0.73
2:IE:100:ALA:O	3:IF:257:VAL:HG21	1.89	0.73
3:JD:47:GLU:HG2	3:JD:48:ARG:HG2	1.69	0.73
2:NE:105:ARG:NH1	3:NF:253:ARG:HD2	2.02	0.73
1:1A:62:ASN:O	2:AA:309:HIS:HD2	1.72	0.73
1:1E:50:ILE:HG22	1:1E:57:MET:HE1	1.71	0.73
3:EF:276:THR:HG1	7:EF:502:TA1:H071	1.34	0.73
2:GA:224:TYR:CE1	3:GB:325:MET:HG3	2.22	0.73
3:GD:47:GLU:HG2	3:GD:48:ARG:HG2	1.69	0.73
3:HB:195:VAL:HG21	3:HB:428:LEU:HD21	1.69	0.73
3:KB:276:THR:HG1	7:KB:502:TA1:H071	1.31	0.73
3:LD:332:MET:HB3	3:LD:351:VAL:HG11	1.69	0.73
3:MB:332:MET:HB3	3:MB:351:VAL:HG11	1.69	0.73
2:MC:400:ALA:HB3	3:MD:346:TRP:CH2	2.22	0.73
1:1D:36:LEU:HB2	1:1D:40:PHE:HE2	1.50	0.73
3:AF:332:MET:HB3	3:AF:351:VAL:HG11	1.69	0.73
3:HD:47:GLU:HG2	3:HD:48:ARG:HG2	1.69	0.73
3:ID:47:GLU:HG2	3:ID:48:ARG:HG2	1.69	0.73
3:JB:332:MET:HB3	3:JB:351:VAL:HG11	1.69	0.73
3:MD:332:MET:HB3	3:MD:351:VAL:HG11	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:332:MET:HB3	3:AD:351:VAL:HG11	1.69	0.73
3:CB:221:THR:HA	2:CC:326:LYS:NZ	2.03	0.73
2:FA:221:ARG:HE	3:FB:324:SER:HB3	1.52	0.73
3:IB:47:GLU:HG2	3:IB:48:ARG:HG2	1.69	0.73
3:IF:47:GLU:HG2	3:IF:48:ARG:HG2	1.69	0.73
3:JF:47:GLU:HG2	3:JF:48:ARG:HG2	1.69	0.73
3:JF:332:MET:HB3	3:JF:351:VAL:HG11	1.69	0.73
2:KA:400:ALA:HB3	3:KB:346:TRP:HH2	1.52	0.73
3:KF:332:MET:HB3	3:KF:351:VAL:HG11	1.69	0.73
3:LF:332:MET:HB3	3:LF:351:VAL:HG11	1.69	0.73
1:1C:36:LEU:HB2	1:1C:40:PHE:HE2	1.50	0.73
3:FF:88:ARG:HH12	3:GF:283:TYR:HB2	1.54	0.73
3:GF:47:GLU:HG2	3:GF:48:ARG:HG2	1.69	0.73
3:HB:47:GLU:HG2	3:HB:48:ARG:HG2	1.69	0.73
3:JD:332:MET:HB3	3:JD:351:VAL:HG11	1.69	0.73
3:KB:332:MET:HB3	3:KB:351:VAL:HG11	1.69	0.72
3:KD:332:MET:HB3	3:KD:351:VAL:HG11	1.69	0.72
3:NB:332:MET:HB3	3:NB:351:VAL:HG11	1.69	0.72
3:NF:332:MET:HB3	3:NF:351:VAL:HG11	1.69	0.72
3:HF:47:GLU:HG2	3:HF:48:ARG:HG2	1.69	0.72
2:JA:221:ARG:NE	3:JB:324:SER:HB3	2.04	0.72
3:ND:332:MET:HB3	3:ND:351:VAL:HG11	1.69	0.72
1:1B:50:ILE:HG22	1:1B:57:MET:HE1	1.71	0.72
3:AB:332:MET:HB3	3:AB:351:VAL:HG11	1.69	0.72
3:MF:332:MET:HB3	3:MF:351:VAL:HG11	1.69	0.72
3:KB:401:ARG:O	2:KC:346:TRP:HH2	1.73	0.72
1:1A:50:ILE:HG22	1:1A:57:MET:HE1	1.71	0.72
2:HE:401:LYS:HD3	3:HF:346:TRP:HE1	1.54	0.72
2:MC:401:LYS:HD3	3:MD:346:TRP:HE1	1.53	0.72
3:GD:222:PRO:HD2	2:GE:326:LYS:NZ	2.05	0.72
2:CC:401:LYS:HD3	3:CD:346:TRP:HE1	1.53	0.72
2:GA:105:ARG:HH12	3:GB:253:ARG:HD2	1.55	0.72
2:IE:222:PRO:O	3:IF:326:LYS:NZ	2.23	0.72
2:NC:394:LYS:HZ3	3:ND:348:PRO:HG3	1.55	0.72
2:BC:101:ASN:H	3:BD:254:LYS:NZ	1.87	0.72
3:IB:394:GLN:HE22	2:IC:348:PRO:HG2	1.54	0.72
2:JE:100:ALA:O	3:JF:257:VAL:HG21	1.89	0.72
2:KC:221:ARG:NH2	3:KD:327:GLU:OE2	2.23	0.72
3:BF:237:GLY:HA3	3:BF:376:THR:HG21	1.72	0.71
3:CF:237:GLY:HA3	3:CF:376:THR:HG21	1.72	0.71
3:EF:237:GLY:HA3	3:EF:376:THR:HG21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LA:105:ARG:HH12	3:LB:253:ARG:HD2	1.55	0.71
2:LE:224:TYR:CE1	3:LF:325:MET:HG3	2.24	0.71
3:BB:237:GLY:HA3	3:BB:376:THR:HG21	1.72	0.71
3:CB:237:GLY:HA3	3:CB:376:THR:HG21	1.72	0.71
3:CD:237:GLY:HA3	3:CD:376:THR:HG21	1.72	0.71
3:EB:237:GLY:HA3	3:EB:376:THR:HG21	1.72	0.71
3:ED:237:GLY:HA3	3:ED:376:THR:HG21	1.72	0.71
3:LF:60:LYS:CE	3:MF:283:TYR:HA	2.20	0.71
3:BD:237:GLY:HA3	3:BD:376:THR:HG21	1.72	0.71
3:CB:394:GLN:HE22	2:CC:348:PRO:HG2	1.53	0.71
3:KB:403:ALA:HB2	2:KC:346:TRP:CE3	2.25	0.71
3:FF:237:GLY:HA3	3:FF:376:THR:HG21	1.72	0.71
2:GE:401:LYS:CD	3:GF:346:TRP:HE1	2.03	0.71
1:1C:50:ILE:HG22	1:1C:57:MET:HE1	1.71	0.71
3:DF:237:GLY:HA3	3:DF:376:THR:HG21	1.72	0.71
3:DD:237:GLY:HA3	3:DD:376:THR:HG21	1.72	0.71
3:FD:237:GLY:HA3	3:FD:376:THR:HG21	1.72	0.71
1:1D:50:ILE:HG22	1:1D:57:MET:HE1	1.71	0.71
3:BD:394:GLN:HE22	2:BE:348:PRO:HG2	1.56	0.71
3:DB:237:GLY:HA3	3:DB:376:THR:HG21	1.72	0.71
3:FB:237:GLY:HA3	3:FB:376:THR:HG21	1.72	0.71
1:1C:62:ASN:HB2	1:1C:78:HIS:HE1	1.55	0.71
3:AB:237:GLY:HA3	3:AB:376:THR:HG21	1.72	0.71
2:BE:221:ARG:HE	3:BF:324:SER:HB3	1.54	0.71
3:GB:237:GLY:HA3	3:GB:376:THR:HG21	1.72	0.71
3:GD:394:GLN:HE22	2:GE:348:PRO:HG2	1.55	0.71
1:1C:54:PHE:HB2	1:1C:57:MET:HE2	1.73	0.71
4:DA:501:GTP:O3G	3:DB:254:LYS:NZ	2.24	0.71
2:GE:401:LYS:HD3	3:GF:346:TRP:HE1	1.55	0.71
2:ME:100:ALA:HA	3:MF:254:LYS:HD3	1.73	0.71
3:AF:237:GLY:HA3	3:AF:376:THR:HG21	1.72	0.71
3:NF:237:GLY:HA3	3:NF:376:THR:HG21	1.72	0.71
3:AD:237:GLY:HA3	3:AD:376:THR:HG21	1.72	0.70
3:GD:237:GLY:HA3	3:GD:376:THR:HG21	1.72	0.70
1:1C:67:ASN:HD21	3:NB:115:VAL:HG11	1.57	0.70
3:GF:237:GLY:HA3	3:GF:376:THR:HG21	1.72	0.70
3:LB:316:ALA:HB3	3:LB:378:ILE:HB	1.74	0.70
3:LD:316:ALA:HB3	3:LD:378:ILE:HB	1.74	0.70
3:ND:237:GLY:HA3	3:ND:376:THR:HG21	1.72	0.70
1:1B:54:PHE:HB2	1:1B:57:MET:HE2	1.73	0.70
1:1D:62:ASN:HB2	1:1D:78:HIS:HE1	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:316:ALA:HB3	3:JB:378:ILE:HB	1.74	0.70
3:JD:316:ALA:HB3	3:JD:378:ILE:HB	1.74	0.70
3:JF:316:ALA:HB3	3:JF:378:ILE:HB	1.74	0.70
3:KB:316:ALA:HB3	3:KB:378:ILE:HB	1.74	0.70
3:KF:316:ALA:HB3	3:KF:378:ILE:HB	1.74	0.70
3:LF:316:ALA:HB3	3:LF:378:ILE:HB	1.74	0.70
2:NE:100:ALA:O	3:NF:257:VAL:HG11	1.90	0.70
1:1D:54:PHE:HB2	1:1D:57:MET:HE2	1.73	0.70
3:KD:316:ALA:HB3	3:KD:378:ILE:HB	1.74	0.70
3:NB:237:GLY:HA3	3:NB:376:THR:HG21	1.72	0.70
3:AB:221:THR:HA	2:AC:326:LYS:HZ3	1.56	0.70
3:HD:237:GLY:HA3	3:HD:376:THR:HG21	1.72	0.70
3:HF:237:GLY:HA3	3:HF:376:THR:HG21	1.72	0.70
3:MD:316:ALA:HB3	3:MD:378:ILE:HB	1.73	0.70
1:1A:54:PHE:HB2	1:1A:57:MET:HE2	1.73	0.70
2:FE:105:ARG:HH12	3:FF:253:ARG:HD2	1.56	0.70
3:GB:222:PRO:HD2	2:GC:326:LYS:HZ3	1.56	0.70
3:IF:316:ALA:HB3	3:IF:378:ILE:HB	1.74	0.70
3:KB:401:ARG:O	2:KC:346:TRP:CH2	2.45	0.70
3:MF:237:GLY:HA3	3:MF:376:THR:HG21	1.72	0.70
2:AE:280:LYS:NZ	3:NB:89:PRO:HB2	2.05	0.70
3:CB:222:PRO:HD2	2:CC:326:LYS:HZ2	1.55	0.70
3:IB:316:ALA:HB3	3:IB:378:ILE:HB	1.74	0.70
3:ID:316:ALA:HB3	3:ID:378:ILE:HB	1.74	0.70
2:ME:394:LYS:HD2	3:MF:348:PRO:HG3	1.73	0.70
3:MF:316:ALA:HB3	3:MF:378:ILE:HB	1.74	0.70
3:NB:316:ALA:HB3	3:NB:378:ILE:HB	1.74	0.70
3:AB:401:ARG:NH2	2:AC:345:ASP:OD2	2.25	0.70
2:HA:221:ARG:NE	3:HB:324:SER:HB3	2.05	0.70
3:HB:237:GLY:HA3	3:HB:376:THR:HG21	1.72	0.70
3:MB:316:ALA:HB3	3:MB:378:ILE:HB	1.74	0.70
3:ND:316:ALA:HB3	3:ND:378:ILE:HB	1.74	0.70
1:1E:51:LYS:HD3	1:1E:55:PRO:HA	1.74	0.70
2:EE:325:PRO:O	2:EE:329:ASN:ND2	2.25	0.70
2:FE:325:PRO:O	2:FE:329:ASN:ND2	2.25	0.70
1:1A:62:ASN:HB2	1:1A:78:HIS:HE1	1.55	0.69
3:DB:394:GLN:HE22	2:DC:348:PRO:HG2	1.56	0.69
2:EA:325:PRO:O	2:EA:329:ASN:ND2	2.25	0.69
2:EC:325:PRO:O	2:EC:329:ASN:ND2	2.25	0.69
2:FC:325:PRO:O	2:FC:329:ASN:ND2	2.25	0.69
3:MB:237:GLY:HA3	3:MB:376:THR:HG21	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:237:GLY:HA3	3:MD:376:THR:HG21	1.72	0.69
3:NF:316:ALA:HB3	3:NF:378:ILE:HB	1.74	0.69
2:DA:325:PRO:O	2:DA:329:ASN:ND2	2.25	0.69
2:FA:325:PRO:O	2:FA:329:ASN:ND2	2.25	0.69
3:HB:316:ALA:HB3	3:HB:378:ILE:HB	1.74	0.69
3:JF:237:GLY:HA3	3:JF:376:THR:HG21	1.72	0.69
3:KB:237:GLY:HA3	3:KB:376:THR:HG21	1.72	0.69
3:LF:237:GLY:HA3	3:LF:376:THR:HG21	1.72	0.69
1:1E:62:ASN:HB2	1:1E:78:HIS:HE1	1.55	0.69
3:AD:316:ALA:HB3	3:AD:378:ILE:HB	1.74	0.69
2:DC:325:PRO:O	2:DC:329:ASN:ND2	2.25	0.69
2:GA:325:PRO:O	2:GA:329:ASN:ND2	2.25	0.69
2:GC:325:PRO:O	2:GC:329:ASN:ND2	2.25	0.69
2:GE:325:PRO:O	2:GE:329:ASN:ND2	2.25	0.69
3:HD:316:ALA:HB3	3:HD:378:ILE:HB	1.74	0.69
3:ID:237:GLY:HA3	3:ID:376:THR:HG21	1.72	0.69
3:KD:237:GLY:HA3	3:KD:376:THR:HG21	1.72	0.69
4:KE:501:GTP:PG	3:KF:254:LYS:HZ1	2.14	0.69
3:LD:237:GLY:HA3	3:LD:376:THR:HG21	1.72	0.69
1:1B:62:ASN:HB2	1:1B:78:HIS:HE1	1.55	0.69
2:AA:400:ALA:HB3	3:AB:346:TRP:HH2	1.57	0.69
3:CD:222:PRO:HD2	2:CE:326:LYS:NZ	2.06	0.69
2:EE:401:LYS:HD3	3:EF:346:TRP:HE1	1.56	0.69
3:GD:316:ALA:HB3	3:GD:378:ILE:HB	1.74	0.69
3:HF:316:ALA:HB3	3:HF:378:ILE:HB	1.74	0.69
3:IB:237:GLY:HA3	3:IB:376:THR:HG21	1.72	0.69
2:IE:397:LEU:HD12	3:IF:346:TRP:CZ3	2.27	0.69
3:IF:237:GLY:HA3	3:IF:376:THR:HG21	1.72	0.69
3:LB:237:GLY:HA3	3:LB:376:THR:HG21	1.72	0.69
1:1E:54:PHE:HB2	1:1E:57:MET:HE2	1.73	0.69
2:AA:54:SER:HB3	2:AA:64:ARG:HD2	1.75	0.69
2:AC:54:SER:HB3	2:AC:64:ARG:HD2	1.75	0.69
2:AE:54:SER:HB3	2:AE:64:ARG:HD2	1.75	0.69
2:DE:325:PRO:O	2:DE:329:ASN:ND2	2.25	0.69
3:EB:394:GLN:HE22	2:EC:348:PRO:HG2	1.56	0.69
2:FC:105:ARG:HH12	3:FD:253:ARG:HD2	1.57	0.69
3:GF:316:ALA:HB3	3:GF:378:ILE:HB	1.74	0.69
2:NE:54:SER:HB3	2:NE:64:ARG:HD2	1.75	0.69
2:NE:325:PRO:O	2:NE:329:ASN:ND2	2.25	0.69
1:1C:62:ASN:N	2:AE:308:ARG:NH1	2.41	0.69
3:AF:316:ALA:HB3	3:AF:378:ILE:HB	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:54:SER:HB3	2:BA:64:ARG:HD2	1.75	0.69
2:BC:54:SER:HB3	2:BC:64:ARG:HD2	1.75	0.69
3:BD:316:ALA:HB3	3:BD:378:ILE:HB	1.74	0.69
2:CA:54:SER:HB3	2:CA:64:ARG:HD2	1.75	0.69
3:JB:394:GLN:HE22	2:JC:348:PRO:HG2	1.56	0.69
3:JD:237:GLY:HA3	3:JD:376:THR:HG21	1.72	0.69
2:MC:54:SER:HB3	2:MC:64:ARG:HD2	1.75	0.69
2:NA:54:SER:HB3	2:NA:64:ARG:HD2	1.75	0.69
2:NC:54:SER:HB3	2:NC:64:ARG:HD2	1.75	0.69
1:1A:51:LYS:HD3	1:1A:55:PRO:HA	1.74	0.69
1:1E:20:LEU:HD11	1:1E:112:ILE:HG12	1.74	0.69
3:AB:316:ALA:HB3	3:AB:378:ILE:HB	1.74	0.69
2:BE:54:SER:HB3	2:BE:64:ARG:HD2	1.75	0.69
2:CA:325:PRO:O	2:CA:329:ASN:ND2	2.25	0.69
2:CC:325:PRO:O	2:CC:329:ASN:ND2	2.25	0.69
3:GB:316:ALA:HB3	3:GB:378:ILE:HB	1.74	0.69
2:KA:325:PRO:O	2:KA:329:ASN:ND2	2.25	0.69
3:KF:237:GLY:HA3	3:KF:376:THR:HG21	1.72	0.69
2:LA:325:PRO:O	2:LA:329:ASN:ND2	2.25	0.69
2:MA:54:SER:HB3	2:MA:64:ARG:HD2	1.75	0.69
2:MA:325:PRO:O	2:MA:329:ASN:ND2	2.25	0.69
2:MC:105:ARG:HH12	3:MD:253:ARG:HD2	1.56	0.69
2:ME:54:SER:HB3	2:ME:64:ARG:HD2	1.75	0.69
2:ME:325:PRO:O	2:ME:329:ASN:ND2	2.25	0.69
1:1A:20:LEU:HD11	1:1A:112:ILE:HG12	1.74	0.69
1:1D:20:LEU:HD11	1:1D:112:ILE:HG12	1.74	0.69
2:AA:325:PRO:O	2:AA:329:ASN:ND2	2.25	0.69
2:AE:325:PRO:O	2:AE:329:ASN:ND2	2.25	0.69
2:BA:325:PRO:O	2:BA:329:ASN:ND2	2.25	0.69
3:BB:316:ALA:HB3	3:BB:378:ILE:HB	1.74	0.69
2:BC:325:PRO:O	2:BC:329:ASN:ND2	2.25	0.69
3:BF:316:ALA:HB3	3:BF:378:ILE:HB	1.74	0.69
3:CB:316:ALA:HB3	3:CB:378:ILE:HB	1.74	0.69
2:CC:54:SER:HB3	2:CC:64:ARG:HD2	1.75	0.69
2:CE:54:SER:HB3	2:CE:64:ARG:HD2	1.75	0.69
2:CE:325:PRO:O	2:CE:329:ASN:ND2	2.25	0.69
3:CF:316:ALA:HB3	3:CF:378:ILE:HB	1.74	0.69
2:DA:54:SER:HB3	2:DA:64:ARG:HD2	1.75	0.69
3:DB:316:ALA:HB3	3:DB:378:ILE:HB	1.74	0.69
3:DD:316:ALA:HB3	3:DD:378:ILE:HB	1.74	0.69
2:EC:54:SER:HB3	2:EC:64:ARG:HD2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:316:ALA:HB3	3:FB:378:ILE:HB	1.74	0.69
2:FE:54:SER:HB3	2:FE:64:ARG:HD2	1.75	0.69
2:GC:54:SER:HB3	2:GC:64:ARG:HD2	1.75	0.69
2:GE:54:SER:HB3	2:GE:64:ARG:HD2	1.75	0.69
2:HE:325:PRO:O	2:HE:329:ASN:ND2	2.25	0.69
3:JB:237:GLY:HA3	3:JB:376:THR:HG21	1.72	0.69
2:JE:100:ALA:O	3:JF:257:VAL:HG11	1.93	0.69
2:KC:325:PRO:O	2:KC:329:ASN:ND2	2.25	0.69
2:KE:325:PRO:O	2:KE:329:ASN:ND2	2.25	0.69
2:LA:100:ALA:HA	3:LB:254:LYS:HD3	1.75	0.69
2:LC:325:PRO:O	2:LC:329:ASN:ND2	2.25	0.69
2:LE:325:PRO:O	2:LE:329:ASN:ND2	2.25	0.69
2:MC:325:PRO:O	2:MC:329:ASN:ND2	2.25	0.69
2:NC:325:PRO:O	2:NC:329:ASN:ND2	2.25	0.69
2:AC:325:PRO:O	2:AC:329:ASN:ND2	2.25	0.69
2:BE:325:PRO:O	2:BE:329:ASN:ND2	2.25	0.69
3:CD:316:ALA:HB3	3:CD:378:ILE:HB	1.74	0.69
2:DE:54:SER:HB3	2:DE:64:ARG:HD2	1.75	0.69
2:EA:54:SER:HB3	2:EA:64:ARG:HD2	1.75	0.69
3:ED:316:ALA:HB3	3:ED:378:ILE:HB	1.74	0.69
2:EE:54:SER:HB3	2:EE:64:ARG:HD2	1.75	0.69
2:FA:54:SER:HB3	2:FA:64:ARG:HD2	1.75	0.69
3:FD:316:ALA:HB3	3:FD:378:ILE:HB	1.74	0.69
2:HC:325:PRO:O	2:HC:329:ASN:ND2	2.25	0.69
2:IE:325:PRO:O	2:IE:329:ASN:ND2	2.25	0.69
3:JD:220:THR:O	2:JE:326:LYS:NZ	2.25	0.69
2:DC:54:SER:HB3	2:DC:64:ARG:HD2	1.75	0.69
3:DF:316:ALA:HB3	3:DF:378:ILE:HB	1.74	0.69
2:EA:221:ARG:HE	3:EB:324:SER:HB3	1.56	0.69
3:EB:316:ALA:HB3	3:EB:378:ILE:HB	1.74	0.69
2:FC:54:SER:HB3	2:FC:64:ARG:HD2	1.75	0.69
3:FF:316:ALA:HB3	3:FF:378:ILE:HB	1.74	0.69
2:HA:325:PRO:O	2:HA:329:ASN:ND2	2.25	0.69
2:IA:325:PRO:O	2:IA:329:ASN:ND2	2.25	0.69
2:LE:54:SER:HB3	2:LE:64:ARG:HD2	1.75	0.69
2:NA:325:PRO:O	2:NA:329:ASN:ND2	2.25	0.69
1:1B:51:LYS:HD3	1:1B:55:PRO:HA	1.74	0.68
3:DD:394:GLN:HE22	2:DE:348:PRO:HG2	1.57	0.68
2:GA:54:SER:HB3	2:GA:64:ARG:HD2	1.75	0.68
2:JA:325:PRO:O	2:JA:329:ASN:ND2	2.25	0.68
2:KE:105:ARG:HH12	3:KF:253:ARG:HD2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NC:105:ARG:NH1	3:ND:253:ARG:HD2	2.08	0.68
2:HA:280:LYS:HA	2:HA:280:LYS:HE3	1.75	0.68
2:HC:280:LYS:HA	2:HC:280:LYS:HE3	1.75	0.68
2:HE:280:LYS:HA	2:HE:280:LYS:HE3	1.75	0.68
2:JC:325:PRO:O	2:JC:329:ASN:ND2	2.25	0.68
2:JE:325:PRO:O	2:JE:329:ASN:ND2	2.25	0.68
1:1C:51:LYS:HD3	1:1C:55:PRO:HA	1.74	0.68
3:EF:316:ALA:HB3	3:EF:378:ILE:HB	1.74	0.68
3:GB:394:GLN:NE2	2:GC:348:PRO:HG2	2.06	0.68
2:HC:54:SER:HB3	2:HC:64:ARG:HD2	1.75	0.68
2:HE:54:SER:HB3	2:HE:64:ARG:HD2	1.75	0.68
2:IA:54:SER:HB3	2:IA:64:ARG:HD2	1.75	0.68
2:IC:325:PRO:O	2:IC:329:ASN:ND2	2.25	0.68
2:LC:54:SER:HB3	2:LC:64:ARG:HD2	1.75	0.68
2:FA:105:ARG:HH12	3:FB:253:ARG:HD2	1.58	0.68
2:HA:54:SER:HB3	2:HA:64:ARG:HD2	1.75	0.68
2:JA:54:SER:HB3	2:JA:64:ARG:HD2	1.75	0.68
2:LA:54:SER:HB3	2:LA:64:ARG:HD2	1.75	0.68
3:LD:222:PRO:HD2	2:LE:326:LYS:HZ3	1.58	0.68
1:1B:20:LEU:HD11	1:1B:112:ILE:HG12	1.74	0.68
3:ED:222:PRO:HD2	2:EE:326:LYS:HZ3	1.57	0.68
2:IC:280:LYS:HA	2:IC:280:LYS:HE3	1.75	0.68
2:JC:54:SER:HB3	2:JC:64:ARG:HD2	1.75	0.68
2:KC:280:LYS:HA	2:KC:280:LYS:HE3	1.75	0.68
2:MA:105:ARG:HH12	3:MB:253:ARG:HD2	1.57	0.68
2:BC:105:ARG:HH12	3:BD:253:ARG:HD2	1.57	0.68
2:DE:105:ARG:HH12	3:DF:253:ARG:HD2	1.59	0.68
2:GC:280:LYS:HA	2:GC:280:LYS:HE3	1.75	0.68
2:IA:280:LYS:HA	2:IA:280:LYS:HE3	1.75	0.68
2:IC:54:SER:HB3	2:IC:64:ARG:HD2	1.75	0.68
2:IE:54:SER:HB3	2:IE:64:ARG:HD2	1.75	0.68
2:IE:280:LYS:HA	2:IE:280:LYS:HE3	1.75	0.68
2:JA:280:LYS:HA	2:JA:280:LYS:HE3	1.75	0.68
2:JE:54:SER:HB3	2:JE:64:ARG:HD2	1.75	0.68
2:JE:280:LYS:HA	2:JE:280:LYS:HE3	1.75	0.68
2:KA:54:SER:HB3	2:KA:64:ARG:HD2	1.75	0.68
2:KC:54:SER:HB3	2:KC:64:ARG:HD2	1.75	0.68
2:KC:394:LYS:HD2	3:KD:348:PRO:HG3	1.75	0.68
2:KE:54:SER:HB3	2:KE:64:ARG:HD2	1.75	0.68
2:KE:280:LYS:HA	2:KE:280:LYS:HE3	1.75	0.68
1:1C:20:LEU:HD11	1:1C:112:ILE:HG12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JC:280:LYS:HA	2:JC:280:LYS:HE3	1.75	0.68
2:KA:280:LYS:HA	2:KA:280:LYS:HE3	1.75	0.68
2:LC:401:LYS:HD3	3:LD:346:TRP:HE1	1.58	0.68
1:1D:51:LYS:HD3	1:1D:55:PRO:HA	1.74	0.68
2:EE:100:ALA:O	3:EF:257:VAL:HG11	1.94	0.68
2:GA:280:LYS:HA	2:GA:280:LYS:HE3	1.75	0.68
2:GE:280:LYS:HA	2:GE:280:LYS:HE3	1.76	0.68
3:JB:60:LYS:HE3	3:KB:283:TYR:HA	1.75	0.68
3:LF:60:LYS:HE2	3:MF:283:TYR:HA	1.74	0.68
2:EC:210:TYR:HE1	2:EC:227:LEU:HD11	1.59	0.68
3:ID:276:THR:HG1	7:ID:502:TA1:H071	1.41	0.68
2:LE:280:LYS:HA	2:LE:280:LYS:HE3	1.75	0.68
2:EE:210:TYR:HE1	2:EE:227:LEU:HD11	1.59	0.68
2:LC:280:LYS:HE3	2:LC:280:LYS:HA	1.75	0.68
3:JD:313:LEU:N	3:JD:380:ASN:O	2.27	0.67
2:LA:280:LYS:HA	2:LA:280:LYS:HE3	1.75	0.67
1:1C:81:ARG:C	1:1C:82:LYS:HD3	2.19	0.67
2:AC:210:TYR:HE1	2:AC:227:LEU:HD11	1.59	0.67
2:EA:210:TYR:HE1	2:EA:227:LEU:HD11	1.60	0.67
2:FE:280:LYS:HA	2:FE:280:LYS:HE3	1.75	0.67
2:IC:210:TYR:HE1	2:IC:227:LEU:HD11	1.59	0.67
2:IE:210:TYR:HE1	2:IE:227:LEU:HD11	1.59	0.67
2:JC:400:ALA:HB3	3:JD:346:TRP:HH2	1.59	0.67
3:JF:313:LEU:N	3:JF:380:ASN:O	2.27	0.67
2:KA:210:TYR:HE1	2:KA:227:LEU:HD11	1.59	0.67
2:ME:280:LYS:HE3	2:ME:280:LYS:HA	1.75	0.67
1:1A:81:ARG:C	1:1A:82:LYS:HD3	2.19	0.67
1:1E:81:ARG:C	1:1E:82:LYS:HD3	2.19	0.67
2:AA:210:TYR:HE1	2:AA:227:LEU:HD11	1.59	0.67
3:BB:222:PRO:HD2	2:BC:326:LYS:NZ	2.10	0.67
2:FC:280:LYS:HA	2:FC:280:LYS:HE3	1.75	0.67
2:GE:210:TYR:HE1	2:GE:227:LEU:HD11	1.59	0.67
2:IA:210:TYR:HE1	2:IA:227:LEU:HD11	1.60	0.67
3:JB:313:LEU:N	3:JB:380:ASN:O	2.27	0.67
3:LB:313:LEU:N	3:LB:380:ASN:O	2.27	0.67
2:MC:280:LYS:HA	2:MC:280:LYS:HE3	1.75	0.67
1:1B:81:ARG:C	1:1B:82:LYS:HD3	2.19	0.67
1:1D:81:ARG:C	1:1D:82:LYS:HD3	2.20	0.67
4:EE:501:GTP:PG	3:EF:254:LYS:HZ1	2.17	0.67
2:GA:210:TYR:HE1	2:GA:227:LEU:HD11	1.60	0.67
2:GC:210:TYR:HE1	2:GC:227:LEU:HD11	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JC:221:ARG:NE	3:JD:324:SER:HB3	2.08	0.67
2:KC:210:TYR:HE1	2:KC:227:LEU:HD11	1.59	0.67
3:LD:313:LEU:N	3:LD:380:ASN:O	2.27	0.67
2:AE:210:TYR:HE1	2:AE:227:LEU:HD11	1.60	0.67
2:DC:221:ARG:NE	3:DD:324:SER:HB3	2.09	0.67
2:KE:210:TYR:HE1	2:KE:227:LEU:HD11	1.60	0.67
3:LF:313:LEU:N	3:LF:380:ASN:O	2.27	0.67
2:NE:210:TYR:HE1	2:NE:227:LEU:HD11	1.59	0.67
2:BE:210:TYR:HE1	2:BE:227:LEU:HD11	1.59	0.67
3:HD:313:LEU:N	3:HD:380:ASN:O	2.27	0.67
3:HF:313:LEU:N	3:HF:380:ASN:O	2.27	0.67
2:KA:100:ALA:O	3:KB:257:VAL:HG11	1.95	0.67
2:LE:210:TYR:HE1	2:LE:227:LEU:HD11	1.59	0.67
2:MA:280:LYS:HA	2:MA:280:LYS:HE3	1.75	0.67
2:NC:210:TYR:HE1	2:NC:227:LEU:HD11	1.59	0.67
2:NC:280:LYS:HA	2:NC:280:LYS:HE3	1.75	0.67
2:DA:210:TYR:HE1	2:DA:227:LEU:HD11	1.59	0.67
2:FA:280:LYS:HE3	2:FA:280:LYS:HA	1.75	0.67
2:KA:105:ARG:HH12	3:KB:253:ARG:HD2	1.60	0.67
3:KB:403:ALA:HB2	2:KC:346:TRP:CZ3	2.29	0.67
3:LB:11:GLN:NE2	6:LB:501:GDP:O2A	2.28	0.67
3:LD:11:GLN:NE2	6:LD:501:GDP:O2A	2.28	0.67
3:LF:11:GLN:NE2	6:LF:501:GDP:O2A	2.28	0.67
2:MA:210:TYR:HE1	2:MA:227:LEU:HD11	1.59	0.67
2:NA:280:LYS:HE3	2:NA:280:LYS:HA	1.75	0.67
3:DB:313:LEU:N	3:DB:380:ASN:O	2.27	0.67
2:EA:280:LYS:HA	2:EA:280:LYS:HE3	1.75	0.67
2:EE:280:LYS:HE3	2:EE:280:LYS:HA	1.75	0.67
3:FB:11:GLN:NE2	6:FB:501:GDP:O2A	2.28	0.67
3:FD:11:GLN:NE2	6:FD:501:GDP:O2A	2.28	0.67
3:GB:313:LEU:N	3:GB:380:ASN:O	2.27	0.67
3:GD:313:LEU:N	3:GD:380:ASN:O	2.27	0.67
2:LC:210:TYR:HE1	2:LC:227:LEU:HD11	1.59	0.67
2:MC:210:TYR:HE1	2:MC:227:LEU:HD11	1.60	0.67
2:DC:210:TYR:HE1	2:DC:227:LEU:HD11	1.59	0.67
3:DD:313:LEU:N	3:DD:380:ASN:O	2.27	0.67
3:FF:11:GLN:NE2	6:FF:501:GDP:O2A	2.28	0.67
3:HB:313:LEU:N	3:HB:380:ASN:O	2.27	0.67
2:JE:210:TYR:HE1	2:JE:227:LEU:HD11	1.60	0.67
3:KB:11:GLN:NE2	6:KB:501:GDP:O2A	2.28	0.67
2:LA:210:TYR:HE1	2:LA:227:LEU:HD11	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LE:401:LYS:CD	3:LF:346:TRP:HE1	2.04	0.67
2:MA:100:ALA:HA	3:MB:254:LYS:HD3	1.77	0.67
3:MB:11:GLN:NE2	6:MB:501:GDP:O2A	2.28	0.67
3:MB:222:PRO:HD2	2:MC:326:LYS:HZ2	1.60	0.67
3:MD:11:GLN:NE2	6:MD:501:GDP:O2A	2.28	0.67
2:ME:210:TYR:HE1	2:ME:227:LEU:HD11	1.59	0.67
2:NA:210:TYR:HE1	2:NA:227:LEU:HD11	1.60	0.67
3:NB:11:GLN:NE2	6:NB:501:GDP:O2A	2.28	0.67
2:BC:210:TYR:HE1	2:BC:227:LEU:HD11	1.60	0.67
3:CB:11:GLN:NE2	6:CB:501:GDP:O2A	2.28	0.67
2:CC:400:ALA:HB3	3:CD:346:TRP:HH2	1.60	0.67
3:CD:11:GLN:NE2	6:CD:501:GDP:O2A	2.28	0.67
3:DB:11:GLN:NE2	6:DB:501:GDP:O2A	2.28	0.67
3:DF:11:GLN:NE2	6:DF:501:GDP:O2A	2.28	0.67
2:FC:89:PRO:HD2	2:GC:280:LYS:NZ	2.10	0.67
2:FE:210:TYR:HE1	2:FE:227:LEU:HD11	1.59	0.67
2:FE:221:ARG:HE	3:FF:324:SER:HB3	1.58	0.67
2:FE:400:ALA:HB3	3:FF:346:TRP:CH2	2.30	0.67
3:GF:11:GLN:NE2	6:GF:501:GDP:O2A	2.28	0.67
3:GF:313:LEU:N	3:GF:380:ASN:O	2.27	0.67
3:HF:11:GLN:NE2	6:HF:501:GDP:O2A	2.28	0.67
3:ID:11:GLN:NE2	6:ID:501:GDP:O2A	2.28	0.67
2:JA:210:TYR:HE1	2:JA:227:LEU:HD11	1.60	0.67
2:JC:210:TYR:HE1	2:JC:227:LEU:HD11	1.60	0.67
3:JF:11:GLN:NE2	6:JF:501:GDP:O2A	2.28	0.67
3:MF:11:GLN:NE2	6:MF:501:GDP:O2A	2.28	0.67
3:AD:11:GLN:NE2	6:AD:501:GDP:O2A	2.28	0.66
2:AE:280:LYS:HA	2:AE:280:LYS:HE3	1.75	0.66
3:CF:11:GLN:NE2	6:CF:501:GDP:O2A	2.28	0.66
3:DD:11:GLN:NE2	6:DD:501:GDP:O2A	2.28	0.66
2:DE:210:TYR:HE1	2:DE:227:LEU:HD11	1.60	0.66
2:EC:280:LYS:HA	2:EC:280:LYS:HE3	1.75	0.66
3:FB:222:PRO:HD2	2:FC:326:LYS:HZ3	1.58	0.66
3:HD:11:GLN:NE2	6:HD:501:GDP:O2A	2.28	0.66
3:IB:11:GLN:NE2	6:IB:501:GDP:O2A	2.28	0.66
3:JD:11:GLN:NE2	6:JD:501:GDP:O2A	2.28	0.66
3:AF:11:GLN:NE2	6:AF:501:GDP:O2A	2.28	0.66
2:BA:210:TYR:HE1	2:BA:227:LEU:HD11	1.59	0.66
3:EF:11:GLN:NE2	6:EF:501:GDP:O2A	2.28	0.66
2:FA:210:TYR:HE1	2:FA:227:LEU:HD11	1.59	0.66
3:GD:11:GLN:NE2	6:GD:501:GDP:O2A	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:311:ARG:NH2	3:HD:343:PHE:O	2.29	0.66
3:HF:311:ARG:NH2	3:HF:343:PHE:O	2.29	0.66
3:IF:11:GLN:NE2	6:IF:501:GDP:O2A	2.28	0.66
3:KD:11:GLN:NE2	6:KD:501:GDP:O2A	2.28	0.66
3:KD:311:ARG:NH2	3:KD:343:PHE:O	2.29	0.66
3:KF:311:ARG:NH2	3:KF:343:PHE:O	2.29	0.66
3:LB:311:ARG:NH2	3:LB:343:PHE:O	2.29	0.66
3:LF:311:ARG:NH2	3:LF:343:PHE:O	2.29	0.66
3:ND:11:GLN:NE2	6:ND:501:GDP:O2A	2.28	0.66
2:CA:210:TYR:HE1	2:CA:227:LEU:HD11	1.59	0.66
2:CC:210:TYR:HE1	2:CC:227:LEU:HD11	1.60	0.66
2:CE:210:TYR:HE1	2:CE:227:LEU:HD11	1.59	0.66
2:FC:210:TYR:HE1	2:FC:227:LEU:HD11	1.59	0.66
3:HB:11:GLN:NE2	6:HB:501:GDP:O2A	2.28	0.66
3:HB:311:ARG:NH2	3:HB:343:PHE:O	2.29	0.66
3:JB:11:GLN:NE2	6:JB:501:GDP:O2A	2.28	0.66
3:KF:11:GLN:NE2	6:KF:501:GDP:O2A	2.28	0.66
3:LD:311:ARG:NH2	3:LD:343:PHE:O	2.29	0.66
2:LE:105:ARG:HH12	3:LF:253:ARG:HD2	1.60	0.66
2:NE:280:LYS:HA	2:NE:280:LYS:HE3	1.75	0.66
1:1A:61:HIS:NE2	2:AA:310:GLY:O	2.28	0.66
3:DF:313:LEU:N	3:DF:380:ASN:O	2.27	0.66
3:EB:221:THR:HA	2:EC:326:LYS:NZ	2.09	0.66
3:GB:11:GLN:NE2	6:GB:501:GDP:O2A	2.28	0.66
3:GF:311:ARG:NH2	3:GF:343:PHE:O	2.29	0.66
2:LC:224:TYR:HE1	3:LD:325:MET:HG3	1.60	0.66
3:MB:403:ALA:HB2	2:MC:346:TRP:CZ3	2.30	0.66
2:AA:280:LYS:HA	2:AA:280:LYS:HE3	1.76	0.66
3:AB:11:GLN:NE2	6:AB:501:GDP:O2A	2.28	0.66
2:AC:280:LYS:HA	2:AC:280:LYS:HE3	1.75	0.66
2:BA:280:LYS:HA	2:BA:280:LYS:HE3	1.75	0.66
2:DE:401:LYS:CD	3:DF:346:TRP:HE1	2.07	0.66
3:GD:311:ARG:NH2	3:GD:343:PHE:O	2.29	0.66
3:KB:311:ARG:NH2	3:KB:343:PHE:O	2.29	0.66
2:ME:224:TYR:CE1	3:MF:325:MET:CG	2.72	0.66
3:NB:313:LEU:N	3:NB:380:ASN:O	2.27	0.66
3:NF:11:GLN:NE2	6:NF:501:GDP:O2A	2.28	0.66
3:BB:11:GLN:NE2	6:BB:501:GDP:O2A	2.28	0.66
2:BC:407:TRP:CZ3	3:BD:257:VAL:O	2.49	0.66
3:CD:222:PRO:HD2	2:CE:326:LYS:HZ3	1.60	0.66
3:GB:311:ARG:NH2	3:GB:343:PHE:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HC:210:TYR:HE1	2:HC:227:LEU:HD11	1.59	0.66
1:1C:67:ASN:HD21	3:NB:115:VAL:CG1	2.09	0.66
3:AB:222:PRO:HD2	2:AC:326:LYS:HZ3	1.58	0.66
2:CC:280:LYS:HA	2:CC:280:LYS:HE3	1.75	0.66
2:DA:280:LYS:HA	2:DA:280:LYS:HE3	1.75	0.66
2:DC:280:LYS:HE3	2:DC:280:LYS:HA	1.76	0.66
3:ED:11:GLN:NE2	6:ED:501:GDP:O2A	2.28	0.66
2:HE:210:TYR:HE1	2:HE:227:LEU:HD11	1.60	0.66
4:IE:501:GTP:O1G	3:IF:254:LYS:NZ	2.27	0.66
2:BC:280:LYS:HA	2:BC:280:LYS:HE3	1.75	0.66
3:BD:11:GLN:NE2	6:BD:501:GDP:O2A	2.28	0.66
2:BE:280:LYS:HE3	2:BE:280:LYS:HA	1.75	0.66
2:CA:280:LYS:HA	2:CA:280:LYS:HE3	1.75	0.66
3:CB:311:ARG:NH2	3:CB:343:PHE:O	2.29	0.66
2:DE:280:LYS:HA	2:DE:280:LYS:HE3	1.75	0.66
3:EB:11:GLN:NE2	6:EB:501:GDP:O2A	2.28	0.66
3:HF:314:THR:H	3:HF:380:ASN:HB3	1.61	0.66
3:JF:311:ARG:NH2	3:JF:343:PHE:O	2.29	0.66
2:LE:401:LYS:HD3	3:LF:346:TRP:NE1	2.07	0.66
3:ND:313:LEU:N	3:ND:380:ASN:O	2.27	0.66
3:DB:276:THR:OG1	7:DB:502:TA1:O07	2.14	0.66
2:HA:210:TYR:HE1	2:HA:227:LEU:HD11	1.60	0.66
3:HD:314:THR:H	3:HD:380:ASN:HB3	1.61	0.66
3:IB:313:LEU:N	3:IB:380:ASN:O	2.27	0.66
3:ID:313:LEU:N	3:ID:380:ASN:O	2.27	0.66
3:IF:313:LEU:N	3:IF:380:ASN:O	2.27	0.66
2:NA:224:TYR:CD1	3:NB:325:MET:HE2	2.31	0.66
3:NB:314:THR:H	3:NB:380:ASN:HB3	1.61	0.66
3:ND:314:THR:H	3:ND:380:ASN:HB3	1.61	0.66
3:NF:313:LEU:N	3:NF:380:ASN:O	2.27	0.66
3:AB:314:THR:H	3:AB:380:ASN:HB3	1.61	0.66
2:AE:284:GLU:CD	3:NB:88:ARG:NH1	2.53	0.66
2:DA:221:ARG:NE	3:DB:324:SER:HB3	2.10	0.66
3:DF:276:THR:OG1	7:DF:502:TA1:O07	2.14	0.66
3:FF:311:ARG:NH2	3:FF:343:PHE:O	2.29	0.66
3:HB:314:THR:H	3:HB:380:ASN:HB3	1.62	0.66
3:MF:314:THR:H	3:MF:380:ASN:HB3	1.61	0.66
3:NF:314:THR:H	3:NF:380:ASN:HB3	1.61	0.66
3:AF:314:THR:H	3:AF:380:ASN:HB3	1.61	0.65
3:BD:311:ARG:NH2	3:BD:343:PHE:O	2.29	0.65
3:BF:11:GLN:NE2	6:BF:501:GDP:O2A	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:311:ARG:NH2	3:BF:343:PHE:O	2.29	0.65
3:JD:311:ARG:NH2	3:JD:343:PHE:O	2.29	0.65
3:AD:314:THR:H	3:AD:380:ASN:HB3	1.61	0.65
2:CE:280:LYS:HA	2:CE:280:LYS:HE3	1.75	0.65
3:JB:311:ARG:NH2	3:JB:343:PHE:O	2.29	0.65
2:NC:101:ASN:H	3:ND:254:LYS:NZ	1.95	0.65
3:BB:311:ARG:NH2	3:BB:343:PHE:O	2.29	0.65
3:FB:222:PRO:HD2	2:FC:326:LYS:NZ	2.12	0.65
3:ID:314:THR:H	3:ID:380:ASN:HB3	1.61	0.65
3:IF:314:THR:H	3:IF:380:ASN:HB3	1.61	0.65
3:KD:403:ALA:HB2	2:KE:346:TRP:CE3	2.31	0.65
2:EC:105:ARG:HE	2:EC:110:ILE:HD13	1.62	0.65
2:EE:105:ARG:HE	2:EE:110:ILE:HD13	1.62	0.65
3:FD:311:ARG:NH2	3:FD:343:PHE:O	2.29	0.65
3:GF:314:THR:H	3:GF:380:ASN:HB3	1.61	0.65
3:IB:314:THR:H	3:IB:380:ASN:HB3	1.62	0.65
3:KB:313:LEU:N	3:KB:380:ASN:O	2.27	0.65
3:MD:314:THR:H	3:MD:380:ASN:HB3	1.61	0.65
2:NA:394:LYS:NZ	3:NB:348:PRO:HG3	2.12	0.65
3:NB:394:GLN:HE22	2:NC:348:PRO:HG2	1.60	0.65
2:CE:105:ARG:HE	2:CE:110:ILE:HD13	1.62	0.65
3:DB:314:THR:H	3:DB:380:ASN:HB3	1.61	0.65
2:EA:105:ARG:HE	2:EA:110:ILE:HD13	1.62	0.65
3:FB:311:ARG:NH2	3:FB:343:PHE:O	2.29	0.65
3:GD:314:THR:H	3:GD:380:ASN:HB3	1.61	0.65
3:MB:314:THR:H	3:MB:380:ASN:HB3	1.61	0.65
3:DD:314:THR:H	3:DD:380:ASN:HB3	1.61	0.65
3:DF:314:THR:H	3:DF:380:ASN:HB3	1.61	0.65
2:IA:224:TYR:CE1	3:IB:325:MET:HG3	2.32	0.65
2:JE:394:LYS:HD2	3:JF:348:PRO:HG3	1.77	0.65
4:JE:501:GTP:PG	3:JF:254:LYS:HZ1	2.19	0.65
3:LF:60:LYS:CE	3:MF:282:GLN:O	2.45	0.65
2:MA:105:ARG:HE	2:MA:110:ILE:HD13	1.62	0.65
2:ME:105:ARG:HE	2:ME:110:ILE:HD13	1.62	0.65
2:ME:401:LYS:CD	3:MF:346:TRP:HE1	2.10	0.65
2:NA:107:HIS:HD1	2:NA:151:SER:HG	1.44	0.65
3:AF:311:ARG:NH2	3:AF:343:PHE:O	2.29	0.65
2:BE:401:LYS:HD3	3:BF:346:TRP:HE1	1.62	0.65
2:CA:105:ARG:HE	2:CA:110:ILE:HD13	1.62	0.65
3:LB:314:THR:H	3:LB:380:ASN:HB3	1.61	0.65
2:MC:105:ARG:HE	2:MC:110:ILE:HD13	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:311:ARG:NH2	3:AD:343:PHE:O	2.29	0.65
2:AE:105:ARG:HE	2:AE:110:ILE:HD13	1.62	0.65
2:CC:105:ARG:HE	2:CC:110:ILE:HD13	1.62	0.65
3:GB:276:THR:OG1	7:GB:502:TA1:O07	2.14	0.65
3:GB:314:THR:H	3:GB:380:ASN:HB3	1.61	0.65
2:GC:105:ARG:HE	2:GC:110:ILE:HD13	1.62	0.65
2:GE:401:LYS:HD3	3:GF:346:TRP:NE1	2.11	0.65
3:KF:314:THR:H	3:KF:380:ASN:HB3	1.61	0.65
3:LD:314:THR:H	3:LD:380:ASN:HB3	1.61	0.65
3:LF:314:THR:H	3:LF:380:ASN:HB3	1.61	0.65
2:AC:105:ARG:HE	2:AC:110:ILE:HD13	1.62	0.65
3:CD:221:THR:HA	2:CE:326:LYS:HZ3	1.60	0.65
3:FB:276:THR:OG1	7:FB:502:TA1:O07	2.14	0.65
2:GA:105:ARG:HE	2:GA:110:ILE:HD13	1.62	0.65
2:GE:105:ARG:HE	2:GE:110:ILE:HD13	1.62	0.65
2:JC:105:ARG:HE	2:JC:110:ILE:HD13	1.62	0.65
3:JD:314:THR:H	3:JD:380:ASN:HB3	1.61	0.65
2:KA:98:ASP:CG	3:KB:254:LYS:HE2	2.22	0.65
3:KD:313:LEU:N	3:KD:380:ASN:O	2.27	0.65
3:KD:314:THR:H	3:KD:380:ASN:HB3	1.61	0.65
2:AA:105:ARG:HE	2:AA:110:ILE:HD13	1.62	0.65
3:EB:314:THR:H	3:EB:380:ASN:HB3	1.61	0.65
3:FB:394:GLN:HE22	2:FC:348:PRO:HG2	1.62	0.65
3:ID:401:ARG:O	2:IE:346:TRP:HH2	1.80	0.65
2:JA:105:ARG:HE	2:JA:110:ILE:HD13	1.62	0.65
3:JB:314:THR:H	3:JB:380:ASN:HB3	1.61	0.65
2:JE:105:ARG:HE	2:JE:110:ILE:HD13	1.62	0.65
4:JE:501:GTP:PG	3:JF:254:LYS:NZ	2.69	0.65
3:KB:314:THR:H	3:KB:380:ASN:HB3	1.61	0.65
3:AB:311:ARG:NH2	3:AB:343:PHE:O	2.29	0.64
3:ED:314:THR:H	3:ED:380:ASN:HB3	1.61	0.64
3:JB:417:GLU:OE1	3:JB:417:GLU:N	2.30	0.64
3:JD:417:GLU:N	3:JD:417:GLU:OE1	2.30	0.64
3:JF:276:THR:OG1	7:JF:502:TA1:O07	2.14	0.64
3:JF:314:THR:H	3:JF:380:ASN:HB3	1.61	0.64
2:LA:105:ARG:HE	2:LA:110:ILE:HD13	1.62	0.64
3:CF:314:THR:H	3:CF:380:ASN:HB3	1.61	0.64
3:EF:314:THR:H	3:EF:380:ASN:HB3	1.61	0.64
3:FB:313:LEU:N	3:FB:380:ASN:O	2.27	0.64
3:GD:276:THR:OG1	7:GD:502:TA1:O07	2.14	0.64
3:KF:313:LEU:N	3:KF:380:ASN:O	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LC:105:ARG:HE	2:LC:110:ILE:HD13	1.62	0.64
2:ME:394:LYS:CD	3:MF:348:PRO:HG3	2.27	0.64
3:AB:276:THR:OG1	7:AB:502:TA1:O07	2.14	0.64
3:CD:314:THR:H	3:CD:380:ASN:HB3	1.61	0.64
3:FF:276:THR:OG1	7:FF:502:TA1:O07	2.14	0.64
2:LE:105:ARG:HE	2:LE:110:ILE:HD13	1.62	0.64
3:CB:313:LEU:N	3:CB:380:ASN:O	2.27	0.64
3:CB:314:THR:H	3:CB:380:ASN:HB3	1.61	0.64
3:EB:222:PRO:HD2	2:EC:326:LYS:HZ3	1.62	0.64
3:FD:313:LEU:N	3:FD:380:ASN:O	2.27	0.64
3:GF:276:THR:OG1	7:GF:502:TA1:O07	2.14	0.64
3:HB:101:ASN:HD22	2:HC:254:GLU:HG3	1.62	0.64
3:IF:311:ARG:NH2	3:IF:343:PHE:O	2.29	0.64
2:KA:105:ARG:HE	2:KA:110:ILE:HD13	1.62	0.64
2:KC:105:ARG:HH12	3:KD:253:ARG:HD2	1.63	0.64
2:LE:101:ASN:H	3:LF:254:LYS:HZ3	1.44	0.64
2:MC:392:ASP:OD1	2:MC:393:HIS:N	2.31	0.64
2:ME:392:ASP:OD1	2:ME:393:HIS:N	2.31	0.64
3:NB:401:ARG:NH1	2:NC:346:TRP:CE2	2.65	0.64
3:CB:417:GLU:OE1	3:CB:417:GLU:N	2.30	0.64
3:CD:417:GLU:OE1	3:CD:417:GLU:N	2.30	0.64
2:IE:220:GLU:O	3:IF:326:LYS:HD2	1.97	0.64
2:JA:392:ASP:OD1	2:JA:393:HIS:N	2.31	0.64
2:JC:392:ASP:OD1	2:JC:393:HIS:N	2.31	0.64
2:JE:392:ASP:OD1	2:JE:393:HIS:N	2.31	0.64
2:KC:105:ARG:HE	2:KC:110:ILE:HD13	1.62	0.64
2:KE:105:ARG:HE	2:KE:110:ILE:HD13	1.62	0.64
2:LA:224:TYR:CE1	3:LB:325:MET:HG3	2.33	0.64
2:MA:392:ASP:OD1	2:MA:393:HIS:N	2.31	0.64
3:MB:403:ALA:HB2	2:MC:346:TRP:CZ2	2.32	0.64
3:CF:417:GLU:OE1	3:CF:417:GLU:N	2.30	0.64
3:EF:311:ARG:NH2	3:EF:343:PHE:O	2.29	0.64
2:JE:105:ARG:HH12	3:JF:253:ARG:HD2	1.62	0.64
3:LF:60:LYS:HD3	3:MF:282:GLN:NE2	2.10	0.64
2:NC:101:ASN:H	3:ND:254:LYS:HZ2	1.46	0.64
3:ND:311:ARG:NH2	3:ND:343:PHE:O	2.29	0.64
3:CD:313:LEU:N	3:CD:380:ASN:O	2.27	0.64
3:CF:313:LEU:N	3:CF:380:ASN:O	2.27	0.64
3:FB:314:THR:H	3:FB:380:ASN:HB3	1.61	0.64
2:FC:21:TRP:HZ3	2:FC:52:PHE:HD1	1.46	0.64
2:FC:105:ARG:HE	2:FC:110:ILE:HD13	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:314:THR:H	3:FD:380:ASN:HB3	1.61	0.64
3:FF:314:THR:H	3:FF:380:ASN:HB3	1.61	0.64
2:HA:392:ASP:OD1	2:HA:393:HIS:N	2.31	0.64
2:HC:105:ARG:HE	2:HC:110:ILE:HD13	1.62	0.64
2:HE:105:ARG:HE	2:HE:110:ILE:HD13	1.62	0.64
3:ID:311:ARG:NH2	3:ID:343:PHE:O	2.29	0.64
2:IE:105:ARG:HE	2:IE:110:ILE:HD13	1.62	0.64
2:KA:407:TRP:CH2	3:KB:260:VAL:O	2.51	0.64
2:NA:105:ARG:HE	2:NA:110:ILE:HD13	1.62	0.64
3:NF:311:ARG:NH2	3:NF:343:PHE:O	2.29	0.64
2:BA:392:ASP:OD1	2:BA:393:HIS:N	2.31	0.64
3:BF:417:GLU:OE1	3:BF:417:GLU:N	2.30	0.64
3:DD:276:THR:OG1	7:DD:502:TA1:O07	2.14	0.64
2:FA:21:TRP:HZ3	2:FA:52:PHE:HD1	1.46	0.64
2:FE:105:ARG:HE	2:FE:110:ILE:HD13	1.62	0.64
2:HA:105:ARG:HE	2:HA:110:ILE:HD13	1.62	0.64
2:HC:392:ASP:OD1	2:HC:393:HIS:N	2.31	0.64
2:HE:392:ASP:OD1	2:HE:393:HIS:N	2.31	0.64
2:IC:105:ARG:HE	2:IC:110:ILE:HD13	1.62	0.64
3:IF:417:GLU:OE1	3:IF:417:GLU:N	2.30	0.64
3:LB:222:PRO:HD2	2:LC:326:LYS:HZ3	1.62	0.64
1:1B:61:HIS:O	2:AC:308:ARG:O	2.15	0.64
3:AF:313:LEU:N	3:AF:380:ASN:O	2.27	0.64
3:BB:314:THR:H	3:BB:380:ASN:HB3	1.61	0.64
2:BE:392:ASP:OD1	2:BE:393:HIS:N	2.31	0.64
3:DD:417:GLU:N	3:DD:417:GLU:OE1	2.30	0.64
3:FD:276:THR:OG1	7:FD:502:TA1:O07	2.14	0.64
2:FE:21:TRP:HZ3	2:FE:52:PHE:HD1	1.46	0.64
3:FF:313:LEU:N	3:FF:380:ASN:O	2.27	0.64
3:FF:417:GLU:OE1	3:FF:417:GLU:N	2.30	0.64
2:HE:400:ALA:HB3	3:HF:346:TRP:HH2	1.62	0.64
2:KA:392:ASP:OD1	2:KA:393:HIS:N	2.31	0.64
2:KC:392:ASP:OD1	2:KC:393:HIS:N	2.31	0.64
3:LF:330:GLU:O	3:LF:334:ASN:ND2	2.21	0.64
3:LF:417:GLU:OE1	3:LF:417:GLU:N	2.30	0.64
3:MD:311:ARG:NH2	3:MD:343:PHE:O	2.29	0.64
3:MF:311:ARG:NH2	3:MF:343:PHE:O	2.29	0.64
2:NE:392:ASP:OD1	2:NE:393:HIS:N	2.31	0.64
2:BA:105:ARG:HE	2:BA:110:ILE:HD13	1.62	0.64
2:BC:105:ARG:HE	2:BC:110:ILE:HD13	1.62	0.64
3:BD:417:GLU:OE1	3:BD:417:GLU:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:417:GLU:OE1	3:DB:417:GLU:N	2.30	0.64
2:IA:105:ARG:HE	2:IA:110:ILE:HD13	1.62	0.64
2:IA:151:SER:HA	2:IA:193:THR:HG21	1.81	0.64
2:IE:151:SER:HA	2:IE:193:THR:HG21	1.81	0.64
3:MB:311:ARG:NH2	3:MB:343:PHE:O	2.29	0.64
3:NB:311:ARG:NH2	3:NB:343:PHE:O	2.29	0.64
2:NC:105:ARG:HE	2:NC:110:ILE:HD13	1.62	0.64
2:AE:392:ASP:OD1	2:AE:393:HIS:N	2.31	0.63
3:BB:417:GLU:OE1	3:BB:417:GLU:N	2.30	0.63
2:BC:392:ASP:OD1	2:BC:393:HIS:N	2.31	0.63
2:BE:105:ARG:HE	2:BE:110:ILE:HD13	1.62	0.63
3:ED:311:ARG:NH2	3:ED:343:PHE:O	2.29	0.63
2:FA:105:ARG:HE	2:FA:110:ILE:HD13	1.62	0.63
3:FD:417:GLU:OE1	3:FD:417:GLU:N	2.30	0.63
2:GE:151:SER:HA	2:GE:193:THR:HG21	1.81	0.63
2:HC:151:SER:HA	2:HC:193:THR:HG21	1.81	0.63
3:IB:311:ARG:NH2	3:IB:343:PHE:O	2.29	0.63
3:IB:417:GLU:N	3:IB:417:GLU:OE1	2.30	0.63
2:IC:21:TRP:HZ3	2:IC:52:PHE:HD1	1.46	0.63
3:ID:417:GLU:OE1	3:ID:417:GLU:N	2.30	0.63
2:IE:21:TRP:HZ3	2:IE:52:PHE:HD1	1.46	0.63
2:JA:151:SER:HA	2:JA:193:THR:HG21	1.81	0.63
2:JC:151:SER:HA	2:JC:193:THR:HG21	1.81	0.63
2:KE:151:SER:HA	2:KE:193:THR:HG21	1.81	0.63
2:KE:392:ASP:OD1	2:KE:393:HIS:N	2.31	0.63
3:LB:417:GLU:N	3:LB:417:GLU:OE1	2.30	0.63
3:LD:417:GLU:OE1	3:LD:417:GLU:N	2.30	0.63
2:NA:392:ASP:OD1	2:NA:393:HIS:N	2.31	0.63
2:NC:392:ASP:OD1	2:NC:393:HIS:N	2.31	0.63
2:AA:392:ASP:OD1	2:AA:393:HIS:N	2.31	0.63
3:AB:313:LEU:N	3:AB:380:ASN:O	2.27	0.63
3:BF:314:THR:H	3:BF:380:ASN:HB3	1.61	0.63
3:EF:60:LYS:HE3	3:FF:282:GLN:HE22	1.61	0.63
3:FB:417:GLU:N	3:FB:417:GLU:OE1	2.30	0.63
2:GC:151:SER:HA	2:GC:193:THR:HG21	1.81	0.63
2:HA:151:SER:HA	2:HA:193:THR:HG21	1.81	0.63
2:HE:151:SER:HA	2:HE:193:THR:HG21	1.81	0.63
2:IA:21:TRP:HZ3	2:IA:52:PHE:HD1	1.46	0.63
2:JE:151:SER:HA	2:JE:193:THR:HG21	1.81	0.63
2:MA:318:LEU:HB2	2:MA:376:CYS:HB3	1.80	0.63
3:MB:276:THR:OG1	7:MB:502:TA1:O07	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MC:151:SER:HA	2:MC:193:THR:HG21	1.81	0.63
3:MD:276:THR:OG1	7:MD:502:TA1:O07	2.14	0.63
2:AC:392:ASP:OD1	2:AC:393:HIS:N	2.31	0.63
3:AD:313:LEU:N	3:AD:380:ASN:O	2.27	0.63
3:BD:314:THR:H	3:BD:380:ASN:HB3	1.62	0.63
3:BF:313:LEU:N	3:BF:380:ASN:O	2.27	0.63
2:DC:105:ARG:HE	2:DC:110:ILE:HD13	1.62	0.63
3:DF:115:VAL:HA	3:DF:118:VAL:HG22	1.81	0.63
3:DF:417:GLU:OE1	3:DF:417:GLU:N	2.30	0.63
3:EF:158:ARG:NH1	3:EF:199:ASP:OD2	2.31	0.63
2:GA:151:SER:HA	2:GA:193:THR:HG21	1.81	0.63
3:GB:417:GLU:OE1	3:GB:417:GLU:N	2.30	0.63
2:HA:21:TRP:HZ3	2:HA:52:PHE:HD1	1.46	0.63
3:HB:330:GLU:O	3:HB:334:ASN:ND2	2.21	0.63
2:HC:21:TRP:HZ3	2:HC:52:PHE:HD1	1.46	0.63
2:IC:151:SER:HA	2:IC:193:THR:HG21	1.81	0.63
3:IF:276:THR:OG1	7:IF:502:TA1:O07	2.14	0.63
2:KA:151:SER:HA	2:KA:193:THR:HG21	1.81	0.63
3:KB:115:VAL:HA	3:KB:118:VAL:HG22	1.81	0.63
2:KC:151:SER:HA	2:KC:193:THR:HG21	1.81	0.63
2:LA:392:ASP:OD1	2:LA:393:HIS:N	2.31	0.63
2:LC:151:SER:HA	2:LC:193:THR:HG21	1.81	0.63
2:LE:151:SER:HA	2:LE:193:THR:HG21	1.81	0.63
2:ME:151:SER:HA	2:ME:193:THR:HG21	1.81	0.63
2:NE:318:LEU:HB2	2:NE:376:CYS:HB3	1.80	0.63
3:BB:313:LEU:N	3:BB:380:ASN:O	2.27	0.63
2:DA:105:ARG:HE	2:DA:110:ILE:HD13	1.62	0.63
3:DD:311:ARG:NH2	3:DD:343:PHE:O	2.29	0.63
2:DE:105:ARG:HE	2:DE:110:ILE:HD13	1.62	0.63
3:EF:417:GLU:N	3:EF:417:GLU:OE1	2.30	0.63
2:FC:151:SER:HA	2:FC:193:THR:HG21	1.81	0.63
2:FE:151:SER:HA	2:FE:193:THR:HG21	1.81	0.63
2:GA:392:ASP:OD1	2:GA:393:HIS:N	2.31	0.63
2:GC:392:ASP:OD1	2:GC:393:HIS:N	2.31	0.63
2:GE:392:ASP:OD1	2:GE:393:HIS:N	2.31	0.63
2:HC:318:LEU:HB2	2:HC:376:CYS:HB3	1.80	0.63
2:HE:21:TRP:HZ3	2:HE:52:PHE:HD1	1.46	0.63
3:HF:158:ARG:NH1	3:HF:199:ASP:OD2	2.31	0.63
2:KA:397:LEU:HD12	3:KB:346:TRP:CE3	2.33	0.63
3:KD:115:VAL:HA	3:KD:118:VAL:HG22	1.81	0.63
2:KE:21:TRP:HZ3	2:KE:52:PHE:HD1	1.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:115:VAL:HA	3:KF:118:VAL:HG22	1.81	0.63
2:LC:392:ASP:OD1	2:LC:393:HIS:N	2.31	0.63
2:LE:392:ASP:OD1	2:LE:393:HIS:N	2.31	0.63
2:MC:318:LEU:HB2	2:MC:376:CYS:HB3	1.80	0.63
2:ME:318:LEU:HB2	2:ME:376:CYS:HB3	1.80	0.63
3:NB:407:TRP:CD2	2:NC:257:THR:HG22	2.33	0.63
2:NE:105:ARG:HE	2:NE:110:ILE:HD13	1.62	0.63
3:BD:313:LEU:N	3:BD:380:ASN:O	2.27	0.63
2:CA:21:TRP:HZ3	2:CA:52:PHE:HD1	1.46	0.63
2:DA:221:ARG:HE	3:DB:324:SER:HB3	1.64	0.63
2:DA:400:ALA:HB3	3:DB:346:TRP:HH2	1.63	0.63
3:DD:115:VAL:HA	3:DD:118:VAL:HG22	1.81	0.63
3:DF:311:ARG:NH2	3:DF:343:PHE:O	2.29	0.63
3:EB:311:ARG:NH2	3:EB:343:PHE:O	2.29	0.63
2:EE:21:TRP:HZ3	2:EE:52:PHE:HD1	1.46	0.63
2:EE:151:SER:HA	2:EE:193:THR:HG21	1.81	0.63
3:GD:417:GLU:N	3:GD:417:GLU:OE1	2.30	0.63
2:GE:318:LEU:HB2	2:GE:376:CYS:HB3	1.80	0.63
3:GF:417:GLU:OE1	3:GF:417:GLU:N	2.30	0.63
2:HA:318:LEU:HB2	2:HA:376:CYS:HB3	1.80	0.63
2:HE:318:LEU:HB2	2:HE:376:CYS:HB3	1.80	0.63
2:IE:392:ASP:OD1	2:IE:393:HIS:N	2.31	0.63
3:IF:115:VAL:HA	3:IF:118:VAL:HG22	1.81	0.63
2:KA:21:TRP:HZ3	2:KA:52:PHE:HD1	1.46	0.63
2:KC:21:TRP:HZ3	2:KC:52:PHE:HD1	1.46	0.63
2:KE:394:LYS:HD2	3:KF:348:PRO:HG3	1.79	0.63
2:LA:151:SER:HA	2:LA:193:THR:HG21	1.81	0.63
2:MA:151:SER:HA	2:MA:193:THR:HG21	1.81	0.63
2:ME:101:ASN:H	3:MF:254:LYS:HZ2	1.45	0.63
3:NB:330:GLU:O	3:NB:334:ASN:ND2	2.21	0.63
3:AB:158:ARG:NH1	3:AB:199:ASP:OD2	2.31	0.63
2:BA:181:VAL:HG12	3:BB:258:ASN:OD1	1.97	0.63
3:BB:428:LEU:O	3:BB:432:TYR:HD2	1.82	0.63
3:CD:311:ARG:NH2	3:CD:343:PHE:O	2.29	0.63
2:DA:392:ASP:OD1	2:DA:393:HIS:N	2.31	0.63
3:DB:115:VAL:HA	3:DB:118:VAL:HG22	1.81	0.63
2:DC:392:ASP:OD1	2:DC:393:HIS:N	2.31	0.63
2:DE:392:ASP:OD1	2:DE:393:HIS:N	2.31	0.63
2:DE:401:LYS:HD3	3:DF:346:TRP:NE1	2.14	0.63
2:EA:21:TRP:HZ3	2:EA:52:PHE:HD1	1.46	0.63
2:EA:151:SER:HA	2:EA:193:THR:HG21	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:417:GLU:OE1	3:EB:417:GLU:N	2.30	0.63
2:FA:392:ASP:OD1	2:FA:393:HIS:N	2.31	0.63
3:FB:115:VAL:HA	3:FB:118:VAL:HG22	1.81	0.63
3:FD:115:VAL:HA	3:FD:118:VAL:HG22	1.81	0.63
2:FE:318:LEU:HB2	2:FE:376:CYS:HB3	1.80	0.63
2:GA:318:LEU:HB2	2:GA:376:CYS:HB3	1.80	0.63
2:GC:318:LEU:HB2	2:GC:376:CYS:HB3	1.80	0.63
3:HB:301:MET:HE1	3:HB:306:ASP:HA	1.81	0.63
3:HD:301:MET:HE1	3:HD:306:ASP:HA	1.81	0.63
3:ID:115:VAL:HA	3:ID:118:VAL:HG22	1.81	0.63
2:LC:318:LEU:HB2	2:LC:376:CYS:HB3	1.80	0.63
3:MD:428:LEU:O	3:MD:432:TYR:HD2	1.82	0.63
3:MF:428:LEU:O	3:MF:432:TYR:HD2	1.82	0.63
2:NC:318:LEU:HB2	2:NC:376:CYS:HB3	1.80	0.63
3:ND:428:LEU:O	3:ND:432:TYR:HD2	1.82	0.63
3:NF:428:LEU:O	3:NF:432:TYR:HD2	1.82	0.63
3:BD:428:LEU:O	3:BD:432:TYR:HD2	1.82	0.63
3:BF:428:LEU:O	3:BF:432:TYR:HD2	1.82	0.63
3:CF:311:ARG:NH2	3:CF:343:PHE:O	2.29	0.63
3:DB:311:ARG:NH2	3:DB:343:PHE:O	2.29	0.63
3:ED:417:GLU:OE1	3:ED:417:GLU:N	2.30	0.63
3:EF:330:GLU:O	3:EF:334:ASN:ND2	2.21	0.63
2:FA:151:SER:HA	2:FA:193:THR:HG21	1.81	0.63
4:FC:501:GTP:O3G	3:FD:254:LYS:NZ	2.32	0.63
2:FE:392:ASP:OD1	2:FE:393:HIS:N	2.31	0.63
3:FF:115:VAL:HA	3:FF:118:VAL:HG22	1.81	0.63
3:IB:115:VAL:HA	3:IB:118:VAL:HG22	1.81	0.63
2:IC:392:ASP:OD1	2:IC:393:HIS:N	2.31	0.63
3:JB:330:GLU:O	3:JB:334:ASN:ND2	2.21	0.63
2:JE:98:ASP:CG	3:JF:254:LYS:HE2	2.24	0.63
3:KF:276:THR:OG1	7:KF:502:TA1:O07	2.14	0.63
2:LA:318:LEU:HB2	2:LA:376:CYS:HB3	1.80	0.63
3:LB:428:LEU:O	3:LB:432:TYR:HD2	1.82	0.63
2:LE:318:LEU:HB2	2:LE:376:CYS:HB3	1.80	0.63
3:MB:428:LEU:O	3:MB:432:TYR:HD2	1.82	0.63
3:MF:115:VAL:HA	3:MF:118:VAL:HG22	1.81	0.63
2:NC:151:SER:HA	2:NC:193:THR:HG21	1.81	0.63
2:AE:280:LYS:NZ	3:NB:89:PRO:CB	2.62	0.63
2:CE:21:TRP:HZ3	2:CE:52:PHE:HD1	1.46	0.63
2:EA:392:ASP:OD1	2:EA:393:HIS:N	2.31	0.63
2:EC:21:TRP:HZ3	2:EC:52:PHE:HD1	1.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:151:SER:HA	2:EC:193:THR:HG21	1.81	0.63
2:EE:392:ASP:OD1	2:EE:393:HIS:N	2.31	0.63
2:FC:318:LEU:HB2	2:FC:376:CYS:HB3	1.80	0.63
2:FC:392:ASP:OD1	2:FC:393:HIS:N	2.31	0.63
3:GB:301:MET:HE1	3:GB:306:ASP:HA	1.81	0.63
3:HD:330:GLU:O	3:HD:334:ASN:ND2	2.21	0.63
3:HF:301:MET:HE1	3:HF:306:ASP:HA	1.81	0.63
2:IA:392:ASP:OD1	2:IA:393:HIS:N	2.31	0.63
3:IB:301:MET:HE1	3:IB:306:ASP:HA	1.81	0.63
3:ID:301:MET:HE1	3:ID:306:ASP:HA	1.81	0.63
3:LD:428:LEU:O	3:LD:432:TYR:HD2	1.82	0.63
3:LF:185:TYR:OH	3:LF:398:MET:O	2.17	0.63
3:MF:158:ARG:NH1	3:MF:199:ASP:OD2	2.31	0.63
2:NA:151:SER:HA	2:NA:193:THR:HG21	1.81	0.63
2:NA:318:LEU:HB2	2:NA:376:CYS:HB3	1.80	0.63
3:NB:428:LEU:O	3:NB:432:TYR:HD2	1.82	0.63
2:NE:151:SER:HA	2:NE:193:THR:HG21	1.81	0.63
3:AF:185:TYR:OH	3:AF:398:MET:O	2.17	0.63
3:BB:394:GLN:NE2	2:BC:348:PRO:HG2	2.07	0.63
3:BF:115:VAL:HA	3:BF:118:VAL:HG22	1.81	0.63
2:CC:21:TRP:HZ3	2:CC:52:PHE:HD1	1.46	0.63
2:DA:151:SER:HA	2:DA:193:THR:HG21	1.81	0.63
2:DE:226:ASN:HA	2:DE:229:ARG:HG2	1.81	0.63
2:EA:318:LEU:HB2	2:EA:376:CYS:HB3	1.80	0.63
2:EC:392:ASP:OD1	2:EC:393:HIS:N	2.31	0.63
2:FA:318:LEU:HB2	2:FA:376:CYS:HB3	1.80	0.63
3:FD:394:GLN:HE22	2:FE:348:PRO:HG2	1.63	0.63
3:GD:301:MET:HE1	3:GD:306:ASP:HA	1.81	0.63
3:HD:417:GLU:OE1	3:HD:417:GLU:N	2.30	0.63
2:JC:221:ARG:HE	3:JD:324:SER:HB3	1.63	0.63
3:KB:428:LEU:O	3:KB:432:TYR:HD2	1.82	0.63
3:LF:428:LEU:O	3:LF:432:TYR:HD2	1.82	0.63
3:MD:158:ARG:NH1	3:MD:199:ASP:OD2	2.31	0.63
3:NF:330:GLU:O	3:NF:334:ASN:ND2	2.21	0.63
1:1A:63:TYR:O	2:AA:308:ARG:NH2	2.32	0.62
2:AA:226:ASN:HA	2:AA:229:ARG:HG2	1.81	0.62
2:AC:318:LEU:HB2	2:AC:376:CYS:HB3	1.80	0.62
2:AE:151:SER:HA	2:AE:193:THR:HG21	1.81	0.62
2:AE:280:LYS:HZ2	3:NB:89:PRO:CB	2.12	0.62
3:AF:158:ARG:NH1	3:AF:199:ASP:OD2	2.31	0.62
3:CB:222:PRO:CD	2:CC:326:LYS:HZ3	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:226:ASN:HA	2:CC:229:ARG:HG2	1.81	0.62
2:CE:226:ASN:HA	2:CE:229:ARG:HG2	1.81	0.62
2:DA:226:ASN:HA	2:DA:229:ARG:HG2	1.81	0.62
2:DC:151:SER:HA	2:DC:193:THR:HG21	1.81	0.62
2:DE:151:SER:HA	2:DE:193:THR:HG21	1.81	0.62
3:IF:301:MET:HE1	3:IF:306:ASP:HA	1.81	0.62
3:JB:301:MET:HE1	3:JB:306:ASP:HA	1.81	0.62
3:KB:330:GLU:O	3:KB:334:ASN:ND2	2.21	0.62
3:MB:115:VAL:HA	3:MB:118:VAL:HG22	1.81	0.62
3:MB:222:PRO:CD	2:MC:326:LYS:HZ3	2.11	0.62
3:MD:115:VAL:HA	3:MD:118:VAL:HG22	1.81	0.62
2:AA:151:SER:HA	2:AA:193:THR:HG21	1.80	0.62
3:AB:115:VAL:HA	3:AB:118:VAL:HG22	1.81	0.62
2:AC:226:ASN:HA	2:AC:229:ARG:HG2	1.82	0.62
3:AD:158:ARG:NH1	3:AD:199:ASP:OD2	2.31	0.62
3:AD:428:LEU:O	3:AD:432:TYR:HD2	1.82	0.62
3:AF:428:LEU:O	3:AF:432:TYR:HD2	1.82	0.62
2:BA:151:SER:HA	2:BA:193:THR:HG21	1.81	0.62
2:BC:151:SER:HA	2:BC:193:THR:HG21	1.81	0.62
3:BD:115:VAL:HA	3:BD:118:VAL:HG22	1.81	0.62
3:CB:115:VAL:HA	3:CB:118:VAL:HG22	1.81	0.62
2:CC:151:SER:HA	2:CC:193:THR:HG21	1.80	0.62
2:CE:151:SER:HA	2:CE:193:THR:HG21	1.81	0.62
2:CE:392:ASP:OD1	2:CE:393:HIS:N	2.31	0.62
2:DC:226:ASN:HA	2:DC:229:ARG:HG2	1.82	0.62
3:DD:428:LEU:O	3:DD:432:TYR:HD2	1.82	0.62
2:EA:226:ASN:HA	2:EA:229:ARG:HG2	1.81	0.62
2:GA:224:TYR:HE1	3:GB:325:MET:HG3	1.62	0.62
2:GA:226:ASN:HA	2:GA:229:ARG:HG2	1.82	0.62
2:GC:226:ASN:HA	2:GC:229:ARG:HG2	1.81	0.62
2:GE:226:ASN:HA	2:GE:229:ARG:HG2	1.81	0.62
3:GF:301:MET:HE1	3:GF:306:ASP:HA	1.81	0.62
3:HB:417:GLU:OE1	3:HB:417:GLU:N	2.30	0.62
3:HD:115:VAL:HA	3:HD:118:VAL:HG22	1.81	0.62
3:JD:301:MET:HE1	3:JD:306:ASP:HA	1.81	0.62
2:JE:407:TRP:HH2	3:JF:260:VAL:O	1.79	0.62
3:JF:185:TYR:OH	3:JF:398:MET:O	2.17	0.62
3:KD:428:LEU:O	3:KD:432:TYR:HD2	1.82	0.62
3:LB:185:TYR:OH	3:LB:398:MET:O	2.17	0.62
2:LC:100:ALA:O	3:LD:257:VAL:HG11	1.99	0.62
3:ND:330:GLU:O	3:ND:334:ASN:ND2	2.21	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:417:GLU:OE1	3:NF:417:GLU:N	2.30	0.62
3:AB:301:MET:HE1	3:AB:306:ASP:HA	1.81	0.62
2:AC:151:SER:HA	2:AC:193:THR:HG21	1.81	0.62
2:AE:226:ASN:HA	2:AE:229:ARG:HG2	1.82	0.62
3:AF:301:MET:HE1	3:AF:306:ASP:HA	1.81	0.62
2:BA:226:ASN:HA	2:BA:229:ARG:HG2	1.81	0.62
3:BB:115:VAL:HA	3:BB:118:VAL:HG22	1.81	0.62
2:BC:226:ASN:HA	2:BC:229:ARG:HG2	1.81	0.62
2:BE:151:SER:HA	2:BE:193:THR:HG21	1.81	0.62
2:CA:226:ASN:HA	2:CA:229:ARG:HG2	1.81	0.62
2:CC:392:ASP:OD1	2:CC:393:HIS:N	2.31	0.62
3:CF:115:VAL:HA	3:CF:118:VAL:HG22	1.81	0.62
3:DB:428:LEU:O	3:DB:432:TYR:HD2	1.82	0.62
3:DF:428:LEU:O	3:DF:432:TYR:HD2	1.82	0.62
2:EE:318:LEU:HB2	2:EE:376:CYS:HB3	1.80	0.62
3:FB:301:MET:HE1	3:FB:306:ASP:HA	1.81	0.62
3:FD:301:MET:HE1	3:FD:306:ASP:HA	1.81	0.62
3:HB:115:VAL:HA	3:HB:118:VAL:HG22	1.81	0.62
3:HD:185:TYR:OH	3:HD:398:MET:O	2.17	0.62
3:HF:417:GLU:N	3:HF:417:GLU:OE1	2.30	0.62
3:JF:301:MET:HE1	3:JF:306:ASP:HA	1.81	0.62
2:KA:318:LEU:HB2	2:KA:376:CYS:HB3	1.80	0.62
3:KB:301:MET:HE1	3:KB:306:ASP:HA	1.81	0.62
3:KF:301:MET:HE1	3:KF:306:ASP:HA	1.81	0.62
3:LF:115:VAL:HA	3:LF:118:VAL:HG22	1.81	0.62
3:MB:313:LEU:N	3:MB:380:ASN:O	2.27	0.62
2:NC:100:ALA:HA	3:ND:254:LYS:HD3	1.81	0.62
3:NF:276:THR:OG1	7:NF:502:TA1:O07	2.14	0.62
3:AB:417:GLU:N	3:AB:417:GLU:OE1	2.30	0.62
3:AD:115:VAL:HA	3:AD:118:VAL:HG22	1.81	0.62
2:CA:151:SER:HA	2:CA:193:THR:HG21	1.81	0.62
2:CA:392:ASP:OD1	2:CA:393:HIS:N	2.31	0.62
3:CD:115:VAL:HA	3:CD:118:VAL:HG22	1.81	0.62
2:DA:21:TRP:HZ3	2:DA:52:PHE:HD1	1.46	0.62
3:DB:158:ARG:NH1	3:DB:199:ASP:OD2	2.31	0.62
3:DD:158:ARG:NH1	3:DD:199:ASP:OD2	2.31	0.62
3:EB:115:VAL:HA	3:EB:118:VAL:HG22	1.81	0.62
2:EE:226:ASN:HA	2:EE:229:ARG:HG2	1.82	0.62
2:FA:226:ASN:HA	2:FA:229:ARG:HG2	1.82	0.62
2:FE:226:ASN:HA	2:FE:229:ARG:HG2	1.82	0.62
3:FF:301:MET:HE1	3:FF:306:ASP:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:185:TYR:OH	3:HB:398:MET:O	2.17	0.62
3:HF:115:VAL:HA	3:HF:118:VAL:HG22	1.81	0.62
2:IE:318:LEU:HB2	2:IE:376:CYS:HB3	1.80	0.62
2:JE:222:PRO:HG2	3:JF:326:LYS:HZ1	1.63	0.62
2:KC:318:LEU:HB2	2:KC:376:CYS:HB3	1.80	0.62
3:LB:115:VAL:HA	3:LB:118:VAL:HG22	1.81	0.62
3:LD:115:VAL:HA	3:LD:118:VAL:HG22	1.81	0.62
2:MA:221:ARG:HE	3:MB:324:SER:HB3	1.62	0.62
3:MB:185:TYR:OH	3:MB:398:MET:O	2.17	0.62
3:MF:417:GLU:N	3:MF:417:GLU:OE1	2.30	0.62
3:NB:276:THR:OG1	7:NB:502:TA1:O07	2.14	0.62
2:NE:226:ASN:HA	2:NE:229:ARG:HG2	1.81	0.62
2:AA:318:LEU:HB2	2:AA:376:CYS:HB3	1.80	0.62
3:AD:301:MET:HE1	3:AD:306:ASP:HA	1.81	0.62
3:AF:115:VAL:HA	3:AF:118:VAL:HG22	1.81	0.62
2:EC:226:ASN:HA	2:EC:229:ARG:HG2	1.82	0.62
2:FC:221:ARG:NE	3:FD:324:SER:HB3	2.15	0.62
2:FC:226:ASN:HA	2:FC:229:ARG:HG2	1.82	0.62
2:HC:168:GLU:O	2:HC:202:PHE:N	2.31	0.62
3:HF:185:TYR:OH	3:HF:398:MET:O	2.17	0.62
2:JC:318:LEU:HB2	2:JC:376:CYS:HB3	1.80	0.62
3:KD:301:MET:HE1	3:KD:306:ASP:HA	1.81	0.62
2:KE:318:LEU:HB2	2:KE:376:CYS:HB3	1.80	0.62
3:MD:185:TYR:OH	3:MD:398:MET:O	2.17	0.62
2:ME:398:MET:HG3	3:MF:347:ILE:CD1	2.28	0.62
3:NB:115:VAL:HA	3:NB:118:VAL:HG22	1.81	0.62
3:NB:417:GLU:N	3:NB:417:GLU:OE1	2.30	0.62
3:ND:115:VAL:HA	3:ND:118:VAL:HG22	1.81	0.62
3:ND:276:THR:OG1	7:ND:502:TA1:O07	2.14	0.62
3:ND:417:GLU:OE1	3:ND:417:GLU:N	2.30	0.62
2:AE:21:TRP:HZ3	2:AE:52:PHE:HD1	1.46	0.62
2:AE:318:LEU:HB2	2:AE:376:CYS:HB3	1.80	0.62
2:BE:226:ASN:HA	2:BE:229:ARG:HG2	1.81	0.62
3:BF:301:MET:HE1	3:BF:306:ASP:HA	1.81	0.62
2:CA:401:LYS:HD3	3:CB:346:TRP:NE1	2.14	0.62
2:DA:318:LEU:HB2	2:DA:376:CYS:HB3	1.80	0.62
2:DC:21:TRP:HZ3	2:DC:52:PHE:HD1	1.46	0.62
2:DE:21:TRP:HZ3	2:DE:52:PHE:HD1	1.46	0.62
3:ED:115:VAL:HA	3:ED:118:VAL:HG22	1.81	0.62
3:FF:185:TYR:OH	3:FF:398:MET:O	2.17	0.62
3:GF:115:VAL:HA	3:GF:118:VAL:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:318:LEU:HB2	2:IA:376:CYS:HB3	1.80	0.62
2:IC:318:LEU:HB2	2:IC:376:CYS:HB3	1.80	0.62
2:IE:56:THR:HA	2:JE:285:GLN:HB2	1.80	0.62
2:KA:168:GLU:O	2:KA:202:PHE:N	2.31	0.62
2:KE:100:ALA:O	3:KF:257:VAL:HG11	1.99	0.62
3:KF:417:GLU:OE1	3:KF:417:GLU:N	2.30	0.62
3:LB:301:MET:HE1	3:LB:306:ASP:HA	1.81	0.62
3:MB:417:GLU:OE1	3:MB:417:GLU:N	2.30	0.62
3:NF:115:VAL:HA	3:NF:118:VAL:HG22	1.81	0.62
2:EC:318:LEU:HB2	2:EC:376:CYS:HB3	1.80	0.62
2:GA:21:TRP:HZ3	2:GA:52:PHE:HD1	1.46	0.62
2:GC:21:TRP:HZ3	2:GC:52:PHE:HD1	1.46	0.62
3:GD:115:VAL:HA	3:GD:118:VAL:HG22	1.81	0.62
2:GE:21:TRP:HZ3	2:GE:52:PHE:HD1	1.46	0.62
2:IA:226:ASN:HA	2:IA:229:ARG:HG2	1.82	0.62
2:IE:221:ARG:HA	3:IF:326:LYS:HZ3	1.64	0.62
3:JD:276:THR:OG1	7:JD:502:TA1:O07	2.14	0.62
3:JD:428:LEU:O	3:JD:432:TYR:HD2	1.82	0.62
3:JF:115:VAL:HA	3:JF:118:VAL:HG22	1.81	0.62
2:KC:168:GLU:O	2:KC:202:PHE:N	2.31	0.62
3:KF:428:LEU:O	3:KF:432:TYR:HD2	1.82	0.62
2:LA:21:TRP:HZ3	2:LA:52:PHE:HD1	1.46	0.62
3:LB:276:THR:OG1	7:LB:502:TA1:O07	2.14	0.62
3:LD:301:MET:HE1	3:LD:306:ASP:HA	1.81	0.62
2:LE:21:TRP:HZ3	2:LE:52:PHE:HD1	1.46	0.62
2:MC:21:TRP:HZ3	2:MC:52:PHE:HD1	1.46	0.62
3:MF:185:TYR:OH	3:MF:398:MET:O	2.17	0.62
2:NC:226:ASN:HA	2:NC:229:ARG:HG2	1.82	0.62
2:AA:21:TRP:HZ3	2:AA:52:PHE:HD1	1.46	0.62
2:AC:21:TRP:HZ3	2:AC:52:PHE:HD1	1.46	0.62
3:AF:417:GLU:OE1	3:AF:417:GLU:N	2.30	0.62
2:CA:400:ALA:HB3	3:CB:346:TRP:HH2	1.64	0.62
3:DB:185:TYR:OH	3:DB:398:MET:O	2.17	0.62
2:DC:318:LEU:HB2	2:DC:376:CYS:HB3	1.80	0.62
3:EB:301:MET:HE1	3:EB:306:ASP:HA	1.81	0.62
3:EF:115:VAL:HA	3:EF:118:VAL:HG22	1.81	0.62
2:FC:400:ALA:HB3	3:FD:346:TRP:CH2	2.32	0.62
3:GB:158:ARG:NH1	3:GB:199:ASP:OD2	2.31	0.62
3:HD:205:ASP:HB3	3:HD:303:ALA:HA	1.82	0.62
3:JB:428:LEU:O	3:JB:432:TYR:HD2	1.82	0.62
3:JD:330:GLU:O	3:JD:334:ASN:ND2	2.21	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:318:LEU:HB2	2:JE:376:CYS:HB3	1.80	0.62
3:KB:185:TYR:OH	3:KB:398:MET:O	2.17	0.62
2:KC:100:ALA:O	3:KD:257:VAL:HG11	1.99	0.62
3:LF:301:MET:HE1	3:LF:306:ASP:HA	1.81	0.62
2:MA:226:ASN:HA	2:MA:229:ARG:HG2	1.82	0.62
2:MC:226:ASN:HA	2:MC:229:ARG:HG2	1.82	0.62
3:MD:313:LEU:N	3:MD:380:ASN:O	2.27	0.62
3:MD:417:GLU:OE1	3:MD:417:GLU:N	2.30	0.62
2:ME:21:TRP:HZ3	2:ME:52:PHE:HD1	1.46	0.62
2:ME:226:ASN:HA	2:ME:229:ARG:HG2	1.82	0.62
2:NA:105:ARG:HH12	3:NB:253:ARG:HD2	1.64	0.62
1:1A:61:HIS:CD2	2:AA:342:GLN:HB3	2.35	0.62
3:AB:428:LEU:O	3:AB:432:TYR:HD2	1.82	0.62
3:DD:185:TYR:OH	3:DD:398:MET:O	2.17	0.62
3:DF:158:ARG:NH1	3:DF:199:ASP:OD2	2.31	0.62
3:HB:205:ASP:HB3	3:HB:303:ALA:HA	1.82	0.62
2:IE:226:ASN:HA	2:IE:229:ARG:HG2	1.82	0.62
2:JA:318:LEU:HB2	2:JA:376:CYS:HB3	1.80	0.62
2:JC:21:TRP:HZ3	2:JC:52:PHE:HD1	1.46	0.62
3:JD:115:VAL:HA	3:JD:118:VAL:HG22	1.81	0.62
3:JF:428:LEU:O	3:JF:432:TYR:HD2	1.82	0.62
2:KE:168:GLU:O	2:KE:202:PHE:N	2.31	0.62
2:LC:21:TRP:HZ3	2:LC:52:PHE:HD1	1.46	0.62
3:MB:205:ASP:HB3	3:MB:303:ALA:HA	1.82	0.62
3:MD:205:ASP:HB3	3:MD:303:ALA:HA	1.82	0.62
3:MF:205:ASP:HB3	3:MF:303:ALA:HA	1.82	0.62
2:NA:226:ASN:HA	2:NA:229:ARG:HG2	1.82	0.62
3:NB:205:ASP:HB3	3:NB:303:ALA:HA	1.82	0.62
3:ND:205:ASP:HB3	3:ND:303:ALA:HA	1.82	0.62
2:NE:21:TRP:HZ3	2:NE:52:PHE:HD1	1.46	0.62
1:1C:78:HIS:O	1:1C:82:LYS:HE2	2.00	0.62
3:AD:417:GLU:OE1	3:AD:417:GLU:N	2.30	0.62
3:BD:301:MET:HE1	3:BD:306:ASP:HA	1.81	0.62
2:BE:318:LEU:HB2	2:BE:376:CYS:HB3	1.80	0.62
2:DE:318:LEU:HB2	2:DE:376:CYS:HB3	1.80	0.62
3:EF:301:MET:HE1	3:EF:306:ASP:HA	1.81	0.62
3:FF:88:ARG:HB3	3:FF:91:ASN:ND2	2.15	0.62
3:GF:143:GLY:O	3:GF:147:SER:OG	2.17	0.62
2:HE:226:ASN:HA	2:HE:229:ARG:HG2	1.82	0.62
3:HF:205:ASP:HB3	3:HF:303:ALA:HA	1.82	0.62
2:IC:226:ASN:HA	2:IC:229:ARG:HG2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:115:VAL:HA	3:JB:118:VAL:HG22	1.81	0.62
2:JE:168:GLU:O	2:JE:202:PHE:N	2.31	0.62
3:MB:301:MET:HE1	3:MB:306:ASP:HA	1.81	0.62
3:NF:301:MET:HE1	3:NF:306:ASP:HA	1.81	0.62
2:BA:221:ARG:NE	3:BB:324:SER:HB3	2.15	0.61
2:BC:318:LEU:HB2	2:BC:376:CYS:HB3	1.80	0.61
3:CB:301:MET:HE1	3:CB:306:ASP:HA	1.81	0.61
2:DA:209:ILE:HD12	2:DA:212:ILE:HB	1.83	0.61
3:ED:301:MET:HE1	3:ED:306:ASP:HA	1.81	0.61
3:GB:205:ASP:HB3	3:GB:303:ALA:HA	1.82	0.61
3:GB:394:GLN:HE22	2:GC:348:PRO:CG	2.09	0.61
3:GD:143:GLY:O	3:GD:147:SER:OG	2.17	0.61
3:GF:88:ARG:HB3	3:GF:91:ASN:ND2	2.15	0.61
2:HA:226:ASN:HA	2:HA:229:ARG:HG2	1.81	0.61
3:HF:330:GLU:O	3:HF:334:ASN:ND2	2.21	0.61
3:IB:205:ASP:HB3	3:IB:303:ALA:HA	1.82	0.61
3:ID:205:ASP:HB3	3:ID:303:ALA:HA	1.82	0.61
3:IF:60:LYS:CE	3:JF:283:TYR:HA	2.30	0.61
3:IF:205:ASP:HB3	3:IF:303:ALA:HA	1.82	0.61
3:JB:158:ARG:NH1	3:JB:199:ASP:OD2	2.31	0.61
3:KD:417:GLU:OE1	3:KD:417:GLU:N	2.30	0.61
3:LB:101:ASN:HA	3:LB:144:GLY:H	1.65	0.61
2:MA:21:TRP:HZ3	2:MA:52:PHE:HD1	1.46	0.61
3:NF:101:ASN:HA	3:NF:144:GLY:H	1.65	0.61
1:1D:78:HIS:O	1:1D:82:LYS:HE2	2.00	0.61
3:AB:88:ARG:HB3	3:AB:91:ASN:ND2	2.15	0.61
3:BB:301:MET:HE1	3:BB:306:ASP:HA	1.81	0.61
2:BE:221:ARG:NE	3:BF:324:SER:HB3	2.15	0.61
2:CC:209:ILE:HD12	2:CC:212:ILE:HB	1.83	0.61
2:CE:209:ILE:HD12	2:CE:212:ILE:HB	1.83	0.61
3:CF:428:LEU:O	3:CF:432:TYR:HD2	1.82	0.61
2:DC:209:ILE:HD12	2:DC:212:ILE:HB	1.83	0.61
2:EE:209:ILE:HD12	2:EE:212:ILE:HB	1.83	0.61
3:EF:88:ARG:HB3	3:EF:91:ASN:ND2	2.15	0.61
2:FA:209:ILE:HD12	2:FA:212:ILE:HB	1.83	0.61
3:FB:428:LEU:O	3:FB:432:TYR:HD2	1.82	0.61
3:FD:88:ARG:HB3	3:FD:91:ASN:ND2	2.15	0.61
3:GB:115:VAL:HA	3:GB:118:VAL:HG22	1.81	0.61
3:GD:158:ARG:NH1	3:GD:199:ASP:OD2	2.31	0.61
3:GF:205:ASP:HB3	3:GF:303:ALA:HA	1.82	0.61
3:HB:179:ASP:O	2:HC:352:LYS:HD2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HC:226:ASN:HA	2:HC:229:ARG:HG2	1.82	0.61
3:HD:101:ASN:HA	3:HD:144:GLY:H	1.66	0.61
3:HF:88:ARG:HB3	3:HF:91:ASN:ND2	2.15	0.61
3:HF:101:ASN:HA	3:HF:144:GLY:H	1.66	0.61
3:HF:428:LEU:O	3:HF:432:TYR:HD2	1.82	0.61
2:IE:107:HIS:HD1	2:IE:151:SER:HG	1.48	0.61
3:IF:88:ARG:HB3	3:IF:91:ASN:ND2	2.15	0.61
2:JC:226:ASN:HA	2:JC:229:ARG:HG2	1.81	0.61
3:JD:101:ASN:HA	3:JD:144:GLY:H	1.65	0.61
3:JD:158:ARG:NH1	3:JD:199:ASP:OD2	2.31	0.61
2:JE:21:TRP:HZ3	2:JE:52:PHE:HD1	1.46	0.61
3:JF:101:ASN:HA	3:JF:144:GLY:H	1.65	0.61
3:JF:158:ARG:NH1	3:JF:199:ASP:OD2	2.31	0.61
3:LD:101:ASN:HA	3:LD:144:GLY:H	1.65	0.61
3:LF:101:ASN:HA	3:LF:144:GLY:H	1.66	0.61
3:NB:101:ASN:HA	3:NB:144:GLY:H	1.66	0.61
3:NF:205:ASP:HB3	3:NF:303:ALA:HA	1.82	0.61
3:AD:88:ARG:HB3	3:AD:91:ASN:ND2	2.15	0.61
2:BA:21:TRP:HZ3	2:BA:52:PHE:HD1	1.46	0.61
2:CA:209:ILE:HD12	2:CA:212:ILE:HB	1.83	0.61
3:CB:88:ARG:HB3	3:CB:91:ASN:ND2	2.15	0.61
3:CB:428:LEU:O	3:CB:432:TYR:HD2	1.82	0.61
3:CD:301:MET:HE1	3:CD:306:ASP:HA	1.81	0.61
3:CD:428:LEU:O	3:CD:432:TYR:HD2	1.82	0.61
2:DE:209:ILE:HD12	2:DE:212:ILE:HB	1.83	0.61
2:EA:209:ILE:HD12	2:EA:212:ILE:HB	1.83	0.61
3:EB:313:LEU:N	3:EB:380:ASN:O	2.27	0.61
2:EC:209:ILE:HD12	2:EC:212:ILE:HB	1.83	0.61
3:ED:101:ASN:HA	3:ED:144:GLY:H	1.65	0.61
3:FB:88:ARG:HB3	3:FB:91:ASN:ND2	2.15	0.61
2:FC:209:ILE:HD12	2:FC:212:ILE:HB	1.83	0.61
3:FD:428:LEU:O	3:FD:432:TYR:HD2	1.82	0.61
3:GD:205:ASP:HB3	3:GD:303:ALA:HA	1.82	0.61
3:HB:101:ASN:HA	3:HB:144:GLY:H	1.66	0.61
3:HD:88:ARG:HB3	3:HD:91:ASN:ND2	2.15	0.61
3:HD:428:LEU:O	3:HD:432:TYR:HD2	1.82	0.61
3:IB:88:ARG:HB3	3:IB:91:ASN:ND2	2.15	0.61
2:JE:226:ASN:HA	2:JE:229:ARG:HG2	1.81	0.61
3:JF:88:ARG:HB3	3:JF:91:ASN:ND2	2.15	0.61
2:KA:100:ALA:O	3:KB:257:VAL:HG21	1.99	0.61
2:KA:226:ASN:HA	2:KA:229:ARG:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:417:GLU:OE1	3:KB:417:GLU:N	2.30	0.61
2:KC:226:ASN:HA	2:KC:229:ARG:HG2	1.81	0.61
3:KD:185:TYR:OH	3:KD:398:MET:O	2.17	0.61
2:KE:226:ASN:HA	2:KE:229:ARG:HG2	1.81	0.61
2:LA:226:ASN:HA	2:LA:229:ARG:HG2	1.81	0.61
2:LC:226:ASN:HA	2:LC:229:ARG:HG2	1.82	0.61
3:LD:205:ASP:HB3	3:LD:303:ALA:HA	1.82	0.61
2:LE:226:ASN:HA	2:LE:229:ARG:HG2	1.81	0.61
3:LF:88:ARG:HB3	3:LF:91:ASN:ND2	2.15	0.61
3:NB:301:MET:HE1	3:NB:306:ASP:HA	1.81	0.61
3:ND:101:ASN:HA	3:ND:144:GLY:H	1.66	0.61
3:ND:301:MET:HE1	3:ND:306:ASP:HA	1.81	0.61
1:1A:78:HIS:O	1:1A:82:LYS:HE2	2.01	0.61
2:BA:318:LEU:HB2	2:BA:376:CYS:HB3	1.80	0.61
3:CD:101:ASN:HA	3:CD:144:GLY:H	1.65	0.61
3:DB:301:MET:HE1	3:DB:306:ASP:HA	1.81	0.61
3:DF:88:ARG:HB3	3:DF:91:ASN:ND2	2.15	0.61
3:EB:101:ASN:HA	3:EB:144:GLY:H	1.66	0.61
3:EB:428:LEU:O	3:EB:432:TYR:HD2	1.82	0.61
2:FE:209:ILE:HD12	2:FE:212:ILE:HB	1.83	0.61
3:FF:428:LEU:O	3:FF:432:TYR:HD2	1.82	0.61
3:GD:88:ARG:HB3	3:GD:91:ASN:ND2	2.15	0.61
3:HB:88:ARG:HB3	3:HB:91:ASN:ND2	2.15	0.61
3:HB:428:LEU:O	3:HB:432:TYR:HD2	1.82	0.61
3:HD:143:GLY:O	3:HD:147:SER:OG	2.17	0.61
3:ID:88:ARG:HB3	3:ID:91:ASN:ND2	2.15	0.61
2:JA:21:TRP:HZ3	2:JA:52:PHE:HD1	1.46	0.61
2:JA:226:ASN:HA	2:JA:229:ARG:HG2	1.82	0.61
3:JB:101:ASN:HA	3:JB:144:GLY:H	1.66	0.61
3:JD:88:ARG:HB3	3:JD:91:ASN:ND2	2.15	0.61
3:KD:330:GLU:O	3:KD:334:ASN:ND2	2.21	0.61
3:LB:205:ASP:HB3	3:LB:303:ALA:HA	1.82	0.61
3:LD:88:ARG:HB3	3:LD:91:ASN:ND2	2.15	0.61
2:NA:21:TRP:HZ3	2:NA:52:PHE:HD1	1.46	0.61
2:NA:101:ASN:H	3:NB:254:LYS:HZ2	1.47	0.61
3:AF:88:ARG:HB3	3:AF:91:ASN:ND2	2.15	0.61
2:BC:209:ILE:HD12	2:BC:212:ILE:HB	1.83	0.61
2:BE:209:ILE:HD12	2:BE:212:ILE:HB	1.83	0.61
3:BF:88:ARG:HB3	3:BF:91:ASN:ND2	2.15	0.61
3:CD:88:ARG:HB3	3:CD:91:ASN:ND2	2.15	0.61
3:CF:88:ARG:HB3	3:CF:91:ASN:ND2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:101:ASN:HA	3:CF:144:GLY:H	1.66	0.61
3:CF:301:MET:HE1	3:CF:306:ASP:HA	1.81	0.61
3:DD:301:MET:HE1	3:DD:306:ASP:HA	1.81	0.61
2:DE:224:TYR:CE1	3:DF:325:MET:HG3	2.36	0.61
3:EB:88:ARG:HB3	3:EB:91:ASN:ND2	2.15	0.61
3:ED:88:ARG:HB3	3:ED:91:ASN:ND2	2.15	0.61
3:ED:428:LEU:O	3:ED:432:TYR:HD2	1.82	0.61
2:EE:224:TYR:CD1	3:EF:325:MET:HE2	2.35	0.61
3:EF:101:ASN:HA	3:EF:144:GLY:H	1.66	0.61
3:FB:101:ASN:HA	3:FB:144:GLY:H	1.65	0.61
3:FF:101:ASN:HA	3:FF:144:GLY:H	1.65	0.61
2:GA:209:ILE:HD12	2:GA:212:ILE:HB	1.83	0.61
3:GB:88:ARG:HB3	3:GB:91:ASN:ND2	2.15	0.61
3:GF:158:ARG:NH1	3:GF:199:ASP:OD2	2.31	0.61
2:IC:168:GLU:O	2:IC:202:PHE:N	2.31	0.61
3:IF:428:LEU:O	3:IF:432:TYR:HD2	1.82	0.61
3:KF:88:ARG:HB3	3:KF:91:ASN:ND2	2.15	0.61
3:LF:205:ASP:HB3	3:LF:303:ALA:HA	1.82	0.61
3:MD:301:MET:HE1	3:MD:306:ASP:HA	1.81	0.61
3:MF:313:LEU:N	3:MF:380:ASN:O	2.27	0.61
3:NF:88:ARG:HB3	3:NF:91:ASN:ND2	2.15	0.61
1:1B:78:HIS:O	1:1B:82:LYS:HE2	2.01	0.61
2:BA:209:ILE:HD12	2:BA:212:ILE:HB	1.83	0.61
3:BD:101:ASN:HA	3:BD:144:GLY:H	1.65	0.61
3:BF:101:ASN:HA	3:BF:144:GLY:H	1.65	0.61
2:CA:318:LEU:HB2	2:CA:376:CYS:HB3	1.80	0.61
3:CB:101:ASN:HA	3:CB:144:GLY:H	1.66	0.61
2:CE:318:LEU:HB2	2:CE:376:CYS:HB3	1.80	0.61
3:EB:330:GLU:O	3:EB:334:ASN:ND2	2.21	0.61
3:ED:313:LEU:N	3:ED:380:ASN:O	2.27	0.61
2:GE:209:ILE:HD12	2:GE:212:ILE:HB	1.83	0.61
3:HB:143:GLY:O	3:HB:147:SER:OG	2.17	0.61
2:IE:168:GLU:O	2:IE:202:PHE:N	2.31	0.61
3:KD:88:ARG:HB3	3:KD:91:ASN:ND2	2.15	0.61
3:LB:88:ARG:HB3	3:LB:91:ASN:ND2	2.15	0.61
3:ND:88:ARG:HB3	3:ND:91:ASN:ND2	2.15	0.61
1:1D:35:ASN:HD21	1:1D:38:ARG:HD3	1.66	0.61
2:BA:400:ALA:HB3	3:BB:346:TRP:HH2	1.66	0.61
3:BB:88:ARG:HB3	3:BB:91:ASN:ND2	2.15	0.61
3:BB:101:ASN:HA	3:BB:144:GLY:H	1.65	0.61
2:BC:21:TRP:HZ3	2:BC:52:PHE:HD1	1.46	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:88:ARG:HB3	3:BD:91:ASN:ND2	2.15	0.61
2:BE:21:TRP:HZ3	2:BE:52:PHE:HD1	1.46	0.61
3:CD:143:GLY:O	3:CD:147:SER:OG	2.17	0.61
3:CF:143:GLY:O	3:CF:147:SER:OG	2.17	0.61
3:DB:88:ARG:HB3	3:DB:91:ASN:ND2	2.15	0.61
3:DF:185:TYR:OH	3:DF:398:MET:O	2.17	0.61
3:DF:301:MET:HE1	3:DF:306:ASP:HA	1.81	0.61
3:FD:101:ASN:HA	3:FD:144:GLY:H	1.66	0.61
2:GC:209:ILE:HD12	2:GC:212:ILE:HB	1.83	0.61
3:ID:428:LEU:O	3:ID:432:TYR:HD2	1.82	0.61
3:JB:88:ARG:HB3	3:JB:91:ASN:ND2	2.15	0.61
2:JE:124:LYS:HD3	2:JE:124:LYS:N	2.16	0.61
3:KF:185:TYR:OH	3:KF:398:MET:O	2.17	0.61
3:MD:101:ASN:ND2	2:ME:254:GLU:OE2	2.33	0.61
3:MF:301:MET:HE1	3:MF:306:ASP:HA	1.81	0.61
2:NC:21:TRP:HZ3	2:NC:52:PHE:HD1	1.46	0.61
3:AD:205:ASP:HB3	3:AD:303:ALA:HA	1.82	0.61
2:DC:221:ARG:NH2	3:DD:327:GLU:OE2	2.34	0.61
3:DD:88:ARG:HB3	3:DD:91:ASN:ND2	2.15	0.61
3:IB:428:LEU:O	3:IB:432:TYR:HD2	1.82	0.61
3:JF:417:GLU:OE1	3:JF:417:GLU:N	2.30	0.61
2:LA:124:LYS:N	2:LA:124:LYS:HD3	2.16	0.61
2:LE:124:LYS:HD3	2:LE:124:LYS:N	2.16	0.61
3:MF:88:ARG:HB3	3:MF:91:ASN:ND2	2.15	0.61
3:NB:101:ASN:ND2	2:NC:254:GLU:OE2	2.34	0.61
3:NB:185:TYR:OH	3:NB:398:MET:O	2.17	0.61
2:CC:318:LEU:HB2	2:CC:376:CYS:HB3	1.80	0.61
2:DA:124:LYS:N	2:DA:124:LYS:HD3	2.16	0.61
2:DC:124:LYS:HD3	2:DC:124:LYS:N	2.16	0.61
2:DE:124:LYS:HD3	2:DE:124:LYS:N	2.16	0.61
3:ED:276:THR:OG1	7:ED:502:TA1:O07	2.14	0.61
2:FA:221:ARG:NE	3:FB:324:SER:HB3	2.16	0.61
3:FB:205:ASP:HB3	3:FB:303:ALA:HA	1.82	0.61
3:FD:205:ASP:HB3	3:FD:303:ALA:HA	1.82	0.61
2:IA:209:ILE:HD12	2:IA:212:ILE:HB	1.83	0.61
2:IE:124:LYS:HD3	2:IE:124:LYS:N	2.16	0.61
2:JA:124:LYS:HD3	2:JA:124:LYS:N	2.16	0.61
3:JF:330:GLU:O	3:JF:334:ASN:ND2	2.21	0.61
3:KB:88:ARG:HB3	3:KB:91:ASN:ND2	2.15	0.61
2:LC:124:LYS:HD3	2:LC:124:LYS:N	2.16	0.61
1:1A:35:ASN:HD21	1:1A:38:ARG:HD3	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:35:ASN:HD21	1:1E:38:ARG:HD3	1.66	0.61
1:1E:78:HIS:O	1:1E:82:LYS:HE2	2.01	0.61
2:AC:209:ILE:HD12	2:AC:212:ILE:HB	1.83	0.61
3:AF:205:ASP:HB3	3:AF:303:ALA:HA	1.82	0.61
3:BD:205:ASP:HB3	3:BD:303:ALA:HA	1.82	0.61
3:CB:143:GLY:O	3:CB:147:SER:OG	2.17	0.61
2:GA:100:ALA:HA	3:GB:254:LYS:HD3	1.82	0.61
3:GB:428:LEU:O	3:GB:432:TYR:HD2	1.82	0.61
2:IE:209:ILE:HD12	2:IE:212:ILE:HB	1.83	0.61
2:JC:124:LYS:N	2:JC:124:LYS:HD3	2.16	0.61
3:JF:205:ASP:HB3	3:JF:303:ALA:HA	1.82	0.61
3:NB:88:ARG:HB3	3:NB:91:ASN:ND2	2.15	0.61
1:1C:35:ASN:HD21	1:1C:38:ARG:HD3	1.66	0.60
2:AA:209:ILE:HD12	2:AA:212:ILE:HB	1.83	0.60
2:BA:101:ASN:H	3:BB:254:LYS:NZ	1.98	0.60
3:EF:428:LEU:O	3:EF:432:TYR:HD2	1.82	0.60
2:HA:209:ILE:HD12	2:HA:212:ILE:HB	1.83	0.60
2:HE:209:ILE:HD12	2:HE:212:ILE:HB	1.83	0.60
2:IA:124:LYS:N	2:IA:124:LYS:HD3	2.16	0.60
2:IC:124:LYS:HD3	2:IC:124:LYS:N	2.16	0.60
2:JC:209:ILE:HD12	2:JC:212:ILE:HB	1.83	0.60
3:KF:330:GLU:O	3:KF:334:ASN:ND2	2.21	0.60
3:MB:88:ARG:HB3	3:MB:91:ASN:ND2	2.15	0.60
3:NB:407:TRP:CZ2	2:NC:256:GLN:NE2	2.68	0.60
4:NC:501:GTP:PG	3:ND:254:LYS:HZ1	2.24	0.60
2:NE:209:ILE:HD12	2:NE:212:ILE:HB	1.83	0.60
3:AB:205:ASP:HB3	3:AB:303:ALA:HA	1.82	0.60
3:BB:205:ASP:HB3	3:BB:303:ALA:HA	1.82	0.60
3:BF:205:ASP:HB3	3:BF:303:ALA:HA	1.82	0.60
3:CF:205:ASP:HB3	3:CF:303:ALA:HA	1.82	0.60
3:DF:143:GLY:O	3:DF:147:SER:OG	2.17	0.60
3:EB:205:ASP:HB3	3:EB:303:ALA:HA	1.82	0.60
3:ED:330:GLU:O	3:ED:334:ASN:ND2	2.21	0.60
2:FC:422:ARG:HA	2:FC:425:MET:HG2	1.83	0.60
2:HE:124:LYS:N	2:HE:124:LYS:HD3	2.16	0.60
2:IC:209:ILE:HD12	2:IC:212:ILE:HB	1.83	0.60
2:KE:124:LYS:HD3	2:KE:124:LYS:N	2.16	0.60
3:LB:158:ARG:NH1	3:LB:199:ASP:OD2	2.31	0.60
3:MD:88:ARG:HB3	3:MD:91:ASN:ND2	2.15	0.60
2:ME:124:LYS:HD3	2:ME:124:LYS:N	2.16	0.60
2:NE:100:ALA:HA	3:NF:254:LYS:HD3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:209:ILE:HD12	2:AE:212:ILE:HB	1.83	0.60
3:CD:205:ASP:HB3	3:CD:303:ALA:HA	1.82	0.60
2:DA:422:ARG:HA	2:DA:425:MET:HG2	1.83	0.60
2:DC:422:ARG:HA	2:DC:425:MET:HG2	1.83	0.60
2:DE:422:ARG:HA	2:DE:425:MET:HG2	1.83	0.60
2:FA:124:LYS:HD3	2:FA:124:LYS:N	2.16	0.60
2:FA:422:ARG:HA	2:FA:425:MET:HG2	1.83	0.60
2:FC:124:LYS:HD3	2:FC:124:LYS:N	2.16	0.60
2:FE:124:LYS:HD3	2:FE:124:LYS:N	2.16	0.60
2:FE:422:ARG:HA	2:FE:425:MET:HG2	1.83	0.60
3:FF:205:ASP:HB3	3:FF:303:ALA:HA	1.82	0.60
3:GD:428:LEU:O	3:GD:432:TYR:HD2	1.82	0.60
2:GE:124:LYS:HD3	2:GE:124:LYS:N	2.16	0.60
2:GE:401:LYS:CE	3:GF:346:TRP:HE1	2.14	0.60
3:GF:101:ASN:HA	3:GF:144:GLY:H	1.65	0.60
3:GF:428:LEU:O	3:GF:432:TYR:HD2	1.82	0.60
2:HC:124:LYS:HD3	2:HC:124:LYS:N	2.16	0.60
2:HC:209:ILE:HD12	2:HC:212:ILE:HB	1.83	0.60
3:JD:205:ASP:HB3	3:JD:303:ALA:HA	1.82	0.60
3:KB:205:ASP:HB3	3:KB:303:ALA:HA	1.82	0.60
2:NC:209:ILE:HD12	2:NC:212:ILE:HB	1.83	0.60
3:ND:185:TYR:OH	3:ND:398:MET:O	2.17	0.60
2:NE:224:TYR:CD1	3:NF:325:MET:HE2	2.35	0.60
2:EE:422:ARG:HA	2:EE:425:MET:HG2	1.83	0.60
3:EF:313:LEU:N	3:EF:380:ASN:O	2.27	0.60
2:FC:401:LYS:CD	3:FD:346:TRP:HE1	2.13	0.60
2:GC:124:LYS:N	2:GC:124:LYS:HD3	2.16	0.60
3:GD:101:ASN:HA	3:GD:144:GLY:H	1.66	0.60
2:JE:107:HIS:HD1	2:JE:151:SER:HG	1.48	0.60
2:KC:124:LYS:HD3	2:KC:124:LYS:N	2.16	0.60
2:LC:209:ILE:HD12	2:LC:212:ILE:HB	1.83	0.60
3:LD:158:ARG:NH1	3:LD:199:ASP:OD2	2.31	0.60
2:MC:100:ALA:HA	3:MD:254:LYS:HD3	1.84	0.60
2:MC:124:LYS:HD3	2:MC:124:LYS:N	2.16	0.60
3:NB:401:ARG:NH1	2:NC:346:TRP:NE1	2.49	0.60
3:NF:185:TYR:OH	3:NF:398:MET:O	2.17	0.60
3:CB:205:ASP:HB3	3:CB:303:ALA:HA	1.82	0.60
3:DD:143:GLY:O	3:DD:147:SER:OG	2.17	0.60
3:DF:205:ASP:HB3	3:DF:303:ALA:HA	1.82	0.60
2:EA:422:ARG:HA	2:EA:425:MET:HG2	1.83	0.60
3:ED:205:ASP:HB3	3:ED:303:ALA:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:185:TYR:OH	3:GB:398:MET:O	2.17	0.60
2:HA:124:LYS:HD3	2:HA:124:LYS:N	2.16	0.60
2:IC:222:PRO:O	3:ID:326:LYS:NZ	2.34	0.60
2:JA:209:ILE:HD12	2:JA:212:ILE:HB	1.83	0.60
2:JE:209:ILE:HD12	2:JE:212:ILE:HB	1.83	0.60
2:KC:16:ILE:HD11	2:KC:231:ILE:HB	1.84	0.60
2:LA:209:ILE:HD12	2:LA:212:ILE:HB	1.83	0.60
3:MB:403:ALA:CB	2:MC:346:TRP:CH2	2.83	0.60
2:NA:209:ILE:HD12	2:NA:212:ILE:HB	1.83	0.60
1:1B:35:ASN:HD21	1:1B:38:ARG:HD3	1.66	0.60
2:AE:105:ARG:HH12	3:AF:253:ARG:HD2	1.66	0.60
2:BC:124:LYS:N	2:BC:124:LYS:HD3	2.16	0.60
2:BE:124:LYS:HD3	2:BE:124:LYS:N	2.16	0.60
2:CA:422:ARG:HA	2:CA:425:MET:HG2	1.83	0.60
2:EC:422:ARG:HA	2:EC:425:MET:HG2	1.83	0.60
2:EE:124:LYS:HD3	2:EE:124:LYS:N	2.16	0.60
2:GA:124:LYS:HD3	2:GA:124:LYS:N	2.16	0.60
3:GB:101:ASN:HA	3:GB:144:GLY:H	1.66	0.60
3:IB:185:TYR:OH	3:IB:398:MET:O	2.17	0.60
3:ID:185:TYR:OH	3:ID:398:MET:O	2.17	0.60
2:IE:222:PRO:HD2	3:IF:326:LYS:CE	2.30	0.60
3:JB:205:ASP:HB3	3:JB:303:ALA:HA	1.82	0.60
3:JD:221:THR:HA	2:JE:326:LYS:HZ1	1.64	0.60
2:KA:124:LYS:HD3	2:KA:124:LYS:N	2.16	0.60
2:KA:209:ILE:HD12	2:KA:212:ILE:HB	1.83	0.60
3:KD:205:ASP:HB3	3:KD:303:ALA:HA	1.82	0.60
2:KE:16:ILE:HD11	2:KE:231:ILE:HB	1.84	0.60
2:KE:222:PRO:HG2	3:KF:326:LYS:HZ1	1.66	0.60
3:LF:158:ARG:NH1	3:LF:199:ASP:OD2	2.31	0.60
2:MA:124:LYS:HD3	2:MA:124:LYS:N	2.16	0.60
2:MA:209:ILE:HD12	2:MA:212:ILE:HB	1.83	0.60
3:MB:101:ASN:HA	3:MB:144:GLY:H	1.66	0.60
3:MB:414:ASP:OD1	3:MB:415:GLU:N	2.35	0.60
2:MC:209:ILE:HD12	2:MC:212:ILE:HB	1.83	0.60
3:MD:414:ASP:OD1	3:MD:415:GLU:N	2.35	0.60
2:NA:124:LYS:HD3	2:NA:124:LYS:N	2.16	0.60
3:NB:414:ASP:OD1	3:NB:415:GLU:N	2.35	0.60
2:NC:124:LYS:HD3	2:NC:124:LYS:N	2.16	0.60
2:NE:124:LYS:HD3	2:NE:124:LYS:N	2.16	0.60
3:NF:414:ASP:OD1	3:NF:415:GLU:N	2.35	0.60
2:BC:422:ARG:HA	2:BC:425:MET:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:394:GLN:HE22	2:EE:348:PRO:HG2	1.67	0.60
3:JB:414:ASP:OD1	3:JB:415:GLU:N	2.35	0.60
2:KA:16:ILE:HD11	2:KA:231:ILE:HB	1.84	0.60
2:KC:209:ILE:HD12	2:KC:212:ILE:HB	1.83	0.60
3:KD:414:ASP:OD1	3:KD:415:GLU:N	2.35	0.60
3:KF:414:ASP:OD1	3:KF:415:GLU:N	2.35	0.60
2:LE:209:ILE:HD12	2:LE:212:ILE:HB	1.83	0.60
2:MC:224:TYR:CE1	3:MD:325:MET:HG3	2.36	0.60
3:MF:414:ASP:OD1	3:MF:415:GLU:N	2.35	0.60
3:ND:414:ASP:OD1	3:ND:415:GLU:N	2.35	0.60
3:AB:330:GLU:O	3:AB:334:ASN:ND2	2.21	0.60
3:AD:101:ASN:HA	3:AD:144:GLY:H	1.66	0.60
3:CB:158:ARG:NH1	3:CB:199:ASP:OD2	2.31	0.60
2:CE:124:LYS:HD3	2:CE:124:LYS:N	2.16	0.60
3:DB:143:GLY:O	3:DB:147:SER:OG	2.17	0.60
3:DB:205:ASP:HB3	3:DB:303:ALA:HA	1.82	0.60
3:DD:205:ASP:HB3	3:DD:303:ALA:HA	1.82	0.60
2:EC:124:LYS:HD3	2:EC:124:LYS:N	2.16	0.60
2:GE:422:ARG:HA	2:GE:425:MET:HG2	1.83	0.60
3:HB:394:GLN:HE22	2:HC:348:PRO:HG2	1.66	0.60
2:IA:16:ILE:HD11	2:IA:231:ILE:HB	1.84	0.60
3:IB:158:ARG:NH1	3:IB:199:ASP:OD2	2.31	0.60
2:IC:16:ILE:HD11	2:IC:231:ILE:HB	1.84	0.60
2:IC:221:ARG:NE	3:ID:324:SER:HB3	2.17	0.60
3:ID:101:ASN:HA	3:ID:144:GLY:H	1.65	0.60
2:IE:16:ILE:HD11	2:IE:231:ILE:HB	1.84	0.60
2:IE:221:ARG:NE	3:IF:324:SER:HB3	2.16	0.60
3:IF:158:ARG:NH1	3:IF:199:ASP:OD2	2.31	0.60
2:JA:16:ILE:HD11	2:JA:231:ILE:HB	1.84	0.60
3:KB:414:ASP:OD1	3:KB:415:GLU:N	2.35	0.60
2:KE:209:ILE:HD12	2:KE:212:ILE:HB	1.83	0.60
3:KF:205:ASP:HB3	3:KF:303:ALA:HA	1.82	0.60
2:MA:401:LYS:CD	3:MB:346:TRP:HE1	2.12	0.60
3:AB:101:ASN:HA	3:AB:144:GLY:H	1.66	0.60
2:BA:124:LYS:HD3	2:BA:124:LYS:N	2.16	0.60
3:BB:143:GLY:O	3:BB:147:SER:OG	2.17	0.60
2:CC:124:LYS:HD3	2:CC:124:LYS:N	2.16	0.60
2:CC:422:ARG:HA	2:CC:425:MET:HG2	1.83	0.60
2:CE:422:ARG:HA	2:CE:425:MET:HG2	1.83	0.60
2:EA:221:ARG:NE	3:EB:324:SER:HB3	2.16	0.60
3:FB:143:GLY:O	3:FB:147:SER:OG	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GA:422:ARG:HA	2:GA:425:MET:HG2	1.83	0.60
2:GC:422:ARG:HA	2:GC:425:MET:HG2	1.83	0.60
3:GD:185:TYR:OH	3:GD:398:MET:O	2.17	0.60
2:GE:105:ARG:HH12	3:GF:253:ARG:HD2	1.66	0.60
3:IF:185:TYR:OH	3:IF:398:MET:O	2.17	0.60
2:JC:16:ILE:HD11	2:JC:231:ILE:HB	1.84	0.60
3:JD:414:ASP:OD1	3:JD:415:GLU:N	2.35	0.60
2:JE:16:ILE:HD11	2:JE:231:ILE:HB	1.84	0.60
2:JE:105:ARG:HH12	3:JF:253:ARG:CD	2.15	0.60
3:JF:143:GLY:O	3:JF:147:SER:OG	2.17	0.60
2:LA:89:PRO:HD2	2:MA:280:LYS:NZ	2.16	0.60
3:LB:414:ASP:OD1	3:LB:415:GLU:N	2.35	0.60
3:MB:358:ILE:HD12	3:MB:359:PRO:HD2	1.84	0.60
2:MC:221:ARG:HE	3:MD:324:SER:HB3	1.67	0.60
2:ME:209:ILE:HD12	2:ME:212:ILE:HB	1.83	0.60
3:MF:358:ILE:HD12	3:MF:359:PRO:HD2	1.84	0.60
2:NA:105:ARG:NH1	3:NB:253:ARG:HD2	2.17	0.60
2:NC:400:ALA:HB3	3:ND:346:TRP:HH2	1.65	0.60
2:NE:224:TYR:HD1	3:NF:325:MET:HE2	1.65	0.60
1:1C:95:VAL:O	1:1C:99:ILE:HD12	2.02	0.60
3:AF:101:ASN:HA	3:AF:144:GLY:H	1.66	0.60
3:BD:414:ASP:OD1	3:BD:415:GLU:N	2.35	0.60
2:DE:221:ARG:HE	3:DF:324:SER:HB3	1.67	0.60
2:EA:124:LYS:HD3	2:EA:124:LYS:N	2.16	0.60
3:EF:205:ASP:HB3	3:EF:303:ALA:HA	1.82	0.60
3:FB:221:THR:HA	2:FC:326:LYS:HZ3	1.67	0.60
3:FD:143:GLY:O	3:FD:147:SER:OG	2.17	0.60
3:IB:101:ASN:HA	3:IB:144:GLY:H	1.65	0.60
3:ID:158:ARG:NH1	3:ID:199:ASP:OD2	2.31	0.60
2:IE:221:ARG:NE	3:IF:327:GLU:OE1	2.35	0.60
3:IF:101:ASN:HA	3:IF:144:GLY:H	1.66	0.60
3:IF:414:ASP:OD1	3:IF:415:GLU:N	2.35	0.60
3:KD:101:ASN:HA	3:KD:144:GLY:H	1.66	0.60
3:KF:101:ASN:HA	3:KF:144:GLY:H	1.65	0.60
2:LA:16:ILE:HD11	2:LA:231:ILE:HB	1.84	0.60
2:LE:16:ILE:HD11	2:LE:231:ILE:HB	1.84	0.60
3:LF:358:ILE:HD12	3:LF:359:PRO:HD2	1.84	0.60
3:MD:101:ASN:HA	3:MD:144:GLY:H	1.66	0.60
3:MD:358:ILE:HD12	3:MD:359:PRO:HD2	1.84	0.60
2:ME:16:ILE:HD11	2:ME:231:ILE:HB	1.84	0.60
3:MF:101:ASN:HA	3:MF:144:GLY:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:158:ARG:NH1	3:NF:199:ASP:OD2	2.31	0.60
1:1D:95:VAL:O	1:1D:99:ILE:HD12	2.02	0.59
3:AB:414:ASP:OD1	3:AB:415:GLU:N	2.35	0.59
2:AE:124:LYS:HD3	2:AE:124:LYS:N	2.16	0.59
2:BA:422:ARG:HA	2:BA:425:MET:HG2	1.83	0.59
3:BB:414:ASP:OD1	3:BB:415:GLU:N	2.35	0.59
2:BE:422:ARG:HA	2:BE:425:MET:HG2	1.83	0.59
3:BF:414:ASP:OD1	3:BF:415:GLU:N	2.35	0.59
2:CA:124:LYS:HD3	2:CA:124:LYS:N	2.16	0.59
4:GA:501:GTP:O3G	3:GB:254:LYS:NZ	2.34	0.59
2:GC:188:ILE:HG23	2:GC:189:LEU:HD12	1.84	0.59
2:HA:16:ILE:HD11	2:HA:231:ILE:HB	1.84	0.59
2:HC:16:ILE:HD11	2:HC:231:ILE:HB	1.84	0.59
2:HE:16:ILE:HD11	2:HE:231:ILE:HB	1.84	0.59
2:HE:422:ARG:HA	2:HE:425:MET:HG2	1.83	0.59
3:IB:414:ASP:OD1	3:IB:415:GLU:N	2.35	0.59
3:ID:414:ASP:OD1	3:ID:415:GLU:N	2.35	0.59
3:JD:143:GLY:O	3:JD:147:SER:OG	2.17	0.59
3:JF:414:ASP:OD1	3:JF:415:GLU:N	2.35	0.59
2:KA:422:ARG:HA	2:KA:425:MET:HG2	1.83	0.59
3:KB:101:ASN:HA	3:KB:144:GLY:H	1.66	0.59
2:KC:422:ARG:HA	2:KC:425:MET:HG2	1.83	0.59
3:KF:358:ILE:HD12	3:KF:359:PRO:HD2	1.84	0.59
3:LD:358:ILE:HD12	3:LD:359:PRO:HD2	1.84	0.59
3:LD:414:ASP:OD1	3:LD:415:GLU:N	2.35	0.59
2:MC:16:ILE:HD11	2:MC:231:ILE:HB	1.84	0.59
4:MC:501:GTP:O3G	3:MD:254:LYS:NZ	2.35	0.59
2:NC:100:ALA:O	3:ND:257:VAL:HG11	2.02	0.59
1:1A:95:VAL:O	1:1A:99:ILE:HD12	2.02	0.59
1:1B:95:VAL:O	1:1B:99:ILE:HD12	2.02	0.59
2:AC:124:LYS:HD3	2:AC:124:LYS:N	2.16	0.59
2:AC:188:ILE:HG23	2:AC:189:LEU:HD12	1.85	0.59
3:BD:143:GLY:O	3:BD:147:SER:OG	2.17	0.59
3:CD:158:ARG:NH1	3:CD:199:ASP:OD2	2.31	0.59
3:CF:158:ARG:NH1	3:CF:199:ASP:OD2	2.31	0.59
3:FD:222:PRO:HD2	2:FE:326:LYS:HZ3	1.67	0.59
3:IF:358:ILE:HD12	3:IF:359:PRO:HD2	1.84	0.59
2:JA:168:GLU:O	2:JA:202:PHE:N	2.31	0.59
3:JB:143:GLY:O	3:JB:147:SER:OG	2.17	0.59
3:JD:60:LYS:CE	3:KD:283:TYR:HA	2.32	0.59
3:JF:358:ILE:HD12	3:JF:359:PRO:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KA:401:LYS:CE	3:KB:346:TRP:HE1	2.15	0.59
2:LC:16:ILE:HD11	2:LC:231:ILE:HB	1.84	0.59
2:LE:224:TYR:HE1	3:LF:325:MET:HG3	1.66	0.59
2:MA:16:ILE:HD11	2:MA:231:ILE:HB	1.84	0.59
2:MC:422:ARG:HA	2:MC:425:MET:HG2	1.83	0.59
2:ME:422:ARG:HA	2:ME:425:MET:HG2	1.83	0.59
2:AA:188:ILE:HG23	2:AA:189:LEU:HD12	1.85	0.59
3:AD:330:GLU:O	3:AD:334:ASN:ND2	2.21	0.59
2:BC:180:ALA:HB3	2:BC:183:GLU:HG3	1.84	0.59
2:BE:180:ALA:HB3	2:BE:183:GLU:HG3	1.84	0.59
3:BF:143:GLY:O	3:BF:147:SER:OG	2.17	0.59
3:EF:414:ASP:OD1	3:EF:415:GLU:N	2.35	0.59
2:FA:188:ILE:HG23	2:FA:189:LEU:HD12	1.85	0.59
2:FC:401:LYS:HD3	3:FD:346:TRP:NE1	2.13	0.59
2:GA:188:ILE:HG23	2:GA:189:LEU:HD12	1.85	0.59
2:GE:188:ILE:HG23	2:GE:189:LEU:HD12	1.85	0.59
2:HC:422:ARG:HA	2:HC:425:MET:HG2	1.83	0.59
2:JC:168:GLU:O	2:JC:202:PHE:N	2.31	0.59
4:JE:501:GTP:O3G	3:JF:254:LYS:NZ	2.35	0.59
3:KD:143:GLY:O	3:KD:147:SER:OG	2.17	0.59
3:KD:358:ILE:HD12	3:KD:359:PRO:HD2	1.84	0.59
2:KE:422:ARG:HA	2:KE:425:MET:HG2	1.83	0.59
3:KF:143:GLY:O	3:KF:147:SER:OG	2.17	0.59
3:LF:414:ASP:OD1	3:LF:415:GLU:N	2.35	0.59
2:MA:188:ILE:HG23	2:MA:189:LEU:HD12	1.85	0.59
2:MC:188:ILE:HG23	2:MC:189:LEU:HD12	1.85	0.59
2:ME:188:ILE:HG23	2:ME:189:LEU:HD12	1.85	0.59
3:NB:158:ARG:NH1	3:NB:199:ASP:OD2	2.31	0.59
2:NE:180:ALA:HB3	2:NE:183:GLU:HG3	1.84	0.59
2:AA:124:LYS:N	2:AA:124:LYS:HD3	2.16	0.59
2:AA:180:ALA:HB3	2:AA:183:GLU:HG3	1.84	0.59
3:AD:414:ASP:OD1	3:AD:415:GLU:N	2.35	0.59
2:AE:188:ILE:HG23	2:AE:189:LEU:HD12	1.85	0.59
3:AF:358:ILE:HD12	3:AF:359:PRO:HD2	1.84	0.59
3:AF:414:ASP:OD1	3:AF:415:GLU:N	2.35	0.59
2:BA:180:ALA:HB3	2:BA:183:GLU:HG3	1.84	0.59
2:BC:188:ILE:HG23	2:BC:189:LEU:HD12	1.85	0.59
3:CB:330:GLU:O	3:CB:334:ASN:ND2	2.21	0.59
2:DA:188:ILE:HG23	2:DA:189:LEU:HD12	1.85	0.59
3:DB:101:ASN:HA	3:DB:144:GLY:H	1.65	0.59
2:DE:180:ALA:HB3	2:DE:183:GLU:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EA:188:ILE:HG23	2:EA:189:LEU:HD12	1.85	0.59
2:EC:188:ILE:HG23	2:EC:189:LEU:HD12	1.84	0.59
2:FC:188:ILE:HG23	2:FC:189:LEU:HD12	1.85	0.59
2:FE:188:ILE:HG23	2:FE:189:LEU:HD12	1.85	0.59
2:GE:221:ARG:HE	3:GF:324:SER:HB3	1.68	0.59
2:HA:422:ARG:HA	2:HA:425:MET:HG2	1.83	0.59
2:IA:188:ILE:HG23	2:IA:189:LEU:HD12	1.85	0.59
3:ID:358:ILE:HD12	3:ID:359:PRO:HD2	1.84	0.59
3:JD:358:ILE:HD12	3:JD:359:PRO:HD2	1.84	0.59
3:LB:222:PRO:HD2	2:LC:326:LYS:NZ	2.17	0.59
3:LB:358:ILE:HD12	3:LB:359:PRO:HD2	1.84	0.59
2:MA:422:ARG:HA	2:MA:425:MET:HG2	1.83	0.59
2:NC:180:ALA:HB3	2:NC:183:GLU:HG3	1.84	0.59
2:NC:188:ILE:HG23	2:NC:189:LEU:HD12	1.84	0.59
3:ND:158:ARG:NH1	3:ND:199:ASP:OD2	2.31	0.59
3:ND:358:ILE:HD12	3:ND:359:PRO:HD2	1.84	0.59
2:NE:188:ILE:HG23	2:NE:189:LEU:HD12	1.85	0.59
2:BA:188:ILE:HG23	2:BA:189:LEU:HD12	1.85	0.59
2:BC:407:TRP:CH2	3:BD:256:ALA:O	2.55	0.59
2:BE:188:ILE:HG23	2:BE:189:LEU:HD12	1.85	0.59
2:CA:180:ALA:HB3	2:CA:183:GLU:HG3	1.84	0.59
2:DC:180:ALA:HB3	2:DC:183:GLU:HG3	1.84	0.59
2:DC:188:ILE:HG23	2:DC:189:LEU:HD12	1.85	0.59
3:DF:358:ILE:HD12	3:DF:359:PRO:HD2	1.84	0.59
2:EE:188:ILE:HG23	2:EE:189:LEU:HD12	1.85	0.59
3:FF:358:ILE:HD12	3:FF:359:PRO:HD2	1.84	0.59
2:GE:16:ILE:HD11	2:GE:231:ILE:HB	1.84	0.59
3:GF:358:ILE:HD12	3:GF:359:PRO:HD2	1.84	0.59
3:IB:358:ILE:HD12	3:IB:359:PRO:HD2	1.84	0.59
2:IC:188:ILE:HG23	2:IC:189:LEU:HD12	1.85	0.59
2:IE:188:ILE:HG23	2:IE:189:LEU:HD12	1.85	0.59
3:JB:358:ILE:HD12	3:JB:359:PRO:HD2	1.84	0.59
3:KB:358:ILE:HD12	3:KB:359:PRO:HD2	1.84	0.59
3:KD:401:ARG:O	2:KE:346:TRP:HH2	1.84	0.59
2:NA:16:ILE:HD11	2:NA:231:ILE:HB	1.84	0.59
3:NF:358:ILE:HD12	3:NF:359:PRO:HD2	1.84	0.59
2:AC:180:ALA:HB3	2:AC:183:GLU:HG3	1.84	0.59
2:AC:422:ARG:HA	2:AC:425:MET:HG2	1.83	0.59
3:AD:358:ILE:HD12	3:AD:359:PRO:HD2	1.84	0.59
3:CD:358:ILE:HD12	3:CD:359:PRO:HD2	1.84	0.59
2:CE:180:ALA:HB3	2:CE:183:GLU:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:358:ILE:HD12	3:CF:359:PRO:HD2	1.84	0.59
2:DA:180:ALA:HB3	2:DA:183:GLU:HG3	1.84	0.59
2:DE:188:ILE:HG23	2:DE:189:LEU:HD12	1.85	0.59
3:DF:101:ASN:HA	3:DF:144:GLY:H	1.66	0.59
3:EB:185:TYR:OH	3:EB:398:MET:O	2.17	0.59
2:GC:16:ILE:HD11	2:GC:231:ILE:HB	1.84	0.59
2:IA:422:ARG:HA	2:IA:425:MET:HG2	1.83	0.59
3:IF:143:GLY:O	3:IF:147:SER:OG	2.17	0.59
2:KA:188:ILE:HG23	2:KA:189:LEU:HD12	1.85	0.59
3:KB:143:GLY:O	3:KB:147:SER:OG	2.17	0.59
2:LA:89:PRO:HD2	2:MA:280:LYS:HZ3	1.67	0.59
3:MB:158:ARG:NH1	3:MB:199:ASP:OD2	2.31	0.59
2:NA:180:ALA:HB3	2:NA:183:GLU:HG3	1.84	0.59
2:NC:224:TYR:CD1	3:ND:325:MET:HE2	2.37	0.59
1:1E:95:VAL:O	1:1E:99:ILE:HD12	2.02	0.59
2:AA:422:ARG:HA	2:AA:425:MET:HG2	1.83	0.59
2:AE:422:ARG:HA	2:AE:425:MET:HG2	1.83	0.59
3:BD:358:ILE:HD12	3:BD:359:PRO:HD2	1.84	0.59
2:CA:16:ILE:HD11	2:CA:231:ILE:HB	1.84	0.59
3:CB:358:ILE:HD12	3:CB:359:PRO:HD2	1.84	0.59
2:CC:180:ALA:HB3	2:CC:183:GLU:HG3	1.84	0.59
3:DB:358:ILE:HD12	3:DB:359:PRO:HD2	1.84	0.59
3:DB:414:ASP:OD1	3:DB:415:GLU:N	2.35	0.59
3:DD:101:ASN:HA	3:DD:144:GLY:H	1.66	0.59
3:ED:414:ASP:OD1	3:ED:415:GLU:N	2.35	0.59
3:FF:414:ASP:OD1	3:FF:415:GLU:N	2.35	0.59
2:GC:221:ARG:NH2	3:GD:327:GLU:OE2	2.34	0.59
3:GF:185:TYR:OH	3:GF:398:MET:O	2.17	0.59
2:HA:188:ILE:HG23	2:HA:189:LEU:HD12	1.85	0.59
3:HD:414:ASP:OD1	3:HD:415:GLU:N	2.35	0.59
3:ID:143:GLY:O	3:ID:147:SER:OG	2.17	0.59
2:JE:221:ARG:NH2	3:JF:327:GLU:OE2	2.35	0.59
2:JE:401:LYS:HZ2	3:JF:346:TRP:NE1	1.99	0.59
2:KC:188:ILE:HG23	2:KC:189:LEU:HD12	1.85	0.59
2:KE:188:ILE:HG23	2:KE:189:LEU:HD12	1.85	0.59
3:MF:143:GLY:O	3:MF:147:SER:OG	2.17	0.59
2:NA:188:ILE:HG23	2:NA:189:LEU:HD12	1.85	0.59
3:NB:358:ILE:HD12	3:NB:359:PRO:HD2	1.84	0.59
1:1D:50:ILE:HG22	1:1D:57:MET:CE	2.33	0.59
3:AB:358:ILE:HD12	3:AB:359:PRO:HD2	1.84	0.59
3:BF:358:ILE:HD12	3:BF:359:PRO:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:414:ASP:OD1	3:CB:415:GLU:N	2.35	0.59
2:CC:16:ILE:HD11	2:CC:231:ILE:HB	1.84	0.59
2:CC:188:ILE:HG23	2:CC:189:LEU:HD12	1.85	0.59
3:CF:414:ASP:OD1	3:CF:415:GLU:N	2.35	0.59
3:DD:358:ILE:HD12	3:DD:359:PRO:HD2	1.84	0.59
3:DF:414:ASP:OD1	3:DF:415:GLU:N	2.35	0.59
3:EB:220:THR:O	2:EC:326:LYS:NZ	2.36	0.59
3:EB:414:ASP:OD1	3:EB:415:GLU:N	2.35	0.59
3:FD:358:ILE:HD12	3:FD:359:PRO:HD2	1.84	0.59
2:GA:16:ILE:HD11	2:GA:231:ILE:HB	1.84	0.59
3:GB:414:ASP:OD1	3:GB:415:GLU:N	2.35	0.59
2:HC:188:ILE:HG23	2:HC:189:LEU:HD12	1.85	0.59
2:HE:188:ILE:HG23	2:HE:189:LEU:HD12	1.85	0.59
3:HF:358:ILE:HD12	3:HF:359:PRO:HD2	1.84	0.59
3:HF:414:ASP:OD1	3:HF:415:GLU:N	2.35	0.59
2:IE:422:ARG:HA	2:IE:425:MET:HG2	1.83	0.59
2:JA:188:ILE:HG23	2:JA:189:LEU:HD12	1.85	0.59
2:KC:226:ASN:ND2	2:KC:367:ASP:OD2	2.36	0.59
2:KE:226:ASN:ND2	2:KE:367:ASP:OD2	2.36	0.59
4:KE:501:GTP:PG	3:KF:254:LYS:NZ	2.75	0.59
1:1A:50:ILE:HG22	1:1A:57:MET:CE	2.33	0.59
1:1E:50:ILE:HG22	1:1E:57:MET:CE	2.33	0.59
2:AA:16:ILE:HD11	2:AA:231:ILE:HB	1.84	0.59
2:AE:16:ILE:HD11	2:AE:231:ILE:HB	1.84	0.59
2:AE:180:ALA:HB3	2:AE:183:GLU:HG3	1.84	0.59
3:CD:221:THR:HA	2:CE:326:LYS:NZ	2.18	0.59
3:CD:414:ASP:OD1	3:CD:415:GLU:N	2.35	0.59
2:CE:16:ILE:HD11	2:CE:231:ILE:HB	1.84	0.59
3:DD:414:ASP:OD1	3:DD:415:GLU:N	2.35	0.59
3:EF:358:ILE:HD12	3:EF:359:PRO:HD2	1.84	0.59
3:FD:414:ASP:OD1	3:FD:415:GLU:N	2.35	0.59
2:FE:16:ILE:HD11	2:FE:231:ILE:HB	1.84	0.59
2:FE:72:PRO:HG3	3:FF:1:MET:HE2	1.85	0.59
3:GD:358:ILE:HD12	3:GD:359:PRO:HD2	1.84	0.59
3:HB:158:ARG:NH1	3:HB:199:ASP:OD2	2.31	0.59
3:HB:414:ASP:OD1	3:HB:415:GLU:N	2.35	0.59
3:HD:141:LEU:HD13	3:HD:170:SER:HB3	1.85	0.59
3:IB:141:LEU:HD13	3:IB:170:SER:HB3	1.85	0.59
3:IB:143:GLY:O	3:IB:147:SER:OG	2.17	0.59
2:JC:188:ILE:HG23	2:JC:189:LEU:HD12	1.85	0.59
2:LA:188:ILE:HG23	2:LA:189:LEU:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LC:188:ILE:HG23	2:LC:189:LEU:HD12	1.85	0.59
2:LE:188:ILE:HG23	2:LE:189:LEU:HD12	1.84	0.59
2:NC:16:ILE:HD11	2:NC:231:ILE:HB	1.84	0.59
2:NC:224:TYR:HE1	3:ND:325:MET:HG3	1.68	0.59
2:NE:226:ASN:ND2	2:NE:367:ASP:OD2	2.36	0.59
3:AB:222:PRO:HD2	2:AC:326:LYS:HZ2	1.67	0.59
3:BB:358:ILE:HD12	3:BB:359:PRO:HD2	1.84	0.59
2:CE:188:ILE:HG23	2:CE:189:LEU:HD12	1.85	0.59
4:DA:501:GTP:PG	3:DB:254:LYS:HZ1	2.25	0.59
2:DC:221:ARG:HE	3:DD:324:SER:HB3	1.68	0.59
2:EA:226:ASN:ND2	2:EA:367:ASP:OD2	2.36	0.59
3:EB:88:ARG:HH12	3:FB:283:TYR:HB2	1.67	0.59
3:ED:185:TYR:OH	3:ED:398:MET:O	2.17	0.59
2:EE:226:ASN:ND2	2:EE:367:ASP:OD2	2.36	0.59
3:FB:141:LEU:HD13	3:FB:170:SER:HB3	1.85	0.59
3:FB:358:ILE:HD12	3:FB:359:PRO:HD2	1.84	0.59
3:FB:414:ASP:OD1	3:FB:415:GLU:N	2.35	0.59
3:GD:414:ASP:OD1	3:GD:415:GLU:N	2.35	0.59
3:HB:141:LEU:HD13	3:HB:170:SER:HB3	1.85	0.59
3:HD:101:ASN:ND2	2:HE:254:GLU:OE2	2.35	0.59
3:HD:358:ILE:HD12	3:HD:359:PRO:HD2	1.84	0.59
3:ID:141:LEU:HD13	3:ID:170:SER:HB3	1.85	0.59
3:IF:141:LEU:HD13	3:IF:170:SER:HB3	1.85	0.59
2:JE:188:ILE:HG23	2:JE:189:LEU:HD12	1.85	0.59
2:KA:226:ASN:ND2	2:KA:367:ASP:OD2	2.36	0.59
2:LA:226:ASN:ND2	2:LA:367:ASP:OD2	2.36	0.59
2:NA:226:ASN:ND2	2:NA:367:ASP:OD2	2.36	0.59
3:NB:143:GLY:O	3:NB:147:SER:OG	2.17	0.59
2:NC:226:ASN:ND2	2:NC:367:ASP:OD2	2.36	0.59
2:NC:422:ARG:HA	2:NC:425:MET:HG2	1.83	0.59
3:ND:143:GLY:O	3:ND:147:SER:OG	2.17	0.59
2:NE:16:ILE:HD11	2:NE:231:ILE:HB	1.84	0.59
1:IE:114:LEU:O	1:IE:118:LEU:HG	2.03	0.58
2:CA:188:ILE:HG23	2:CA:189:LEU:HD12	1.85	0.58
3:CD:330:GLU:O	3:CD:334:ASN:ND2	2.21	0.58
3:CF:330:GLU:O	3:CF:334:ASN:ND2	2.21	0.58
2:FC:16:ILE:HD11	2:FC:231:ILE:HB	1.84	0.58
3:FD:141:LEU:HD13	3:FD:170:SER:HB3	1.85	0.58
3:FF:141:LEU:HD13	3:FF:170:SER:HB3	1.85	0.58
3:FF:158:ARG:NH1	3:FF:199:ASP:OD2	2.31	0.58
3:GD:141:LEU:HD13	3:GD:170:SER:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:141:LEU:HD13	3:GF:170:SER:HB3	1.85	0.58
3:GF:414:ASP:OD1	3:GF:415:GLU:N	2.35	0.58
3:HF:141:LEU:HD13	3:HF:170:SER:HB3	1.85	0.58
2:IC:422:ARG:HA	2:IC:425:MET:HG2	1.83	0.58
2:LC:226:ASN:ND2	2:LC:367:ASP:OD2	2.36	0.58
2:LE:226:ASN:ND2	2:LE:367:ASP:OD2	2.36	0.58
3:LF:60:LYS:HE3	3:MF:282:GLN:CD	2.27	0.58
2:MA:180:ALA:HB3	2:MA:183:GLU:HG3	1.84	0.58
2:NA:101:ASN:N	3:NB:254:LYS:HZ2	1.99	0.58
1:1B:50:ILE:HG22	1:1B:57:MET:CE	2.33	0.58
1:1C:61:HIS:C	2:AE:308:ARG:HH11	2.11	0.58
2:AA:226:ASN:ND2	2:AA:367:ASP:OD2	2.36	0.58
2:AC:16:ILE:HD11	2:AC:231:ILE:HB	1.84	0.58
2:CA:226:ASN:ND2	2:CA:367:ASP:OD2	2.36	0.58
3:ED:358:ILE:HD12	3:ED:359:PRO:HD2	1.84	0.58
3:EF:141:LEU:HD13	3:EF:170:SER:HB3	1.85	0.58
3:FB:158:ARG:NH1	3:FB:199:ASP:OD2	2.31	0.58
3:FD:158:ARG:NH1	3:FD:199:ASP:OD2	2.31	0.58
3:GB:141:LEU:HD13	3:GB:170:SER:HB3	1.85	0.58
3:HD:158:ARG:NH1	3:HD:199:ASP:OD2	2.31	0.58
2:LE:422:ARG:HA	2:LE:425:MET:HG2	1.83	0.58
2:NA:422:ARG:HA	2:NA:425:MET:HG2	1.83	0.58
3:NF:143:GLY:O	3:NF:147:SER:OG	2.17	0.58
1:1C:50:ILE:HG22	1:1C:57:MET:CE	2.33	0.58
1:1C:114:LEU:O	1:1C:118:LEU:HG	2.03	0.58
1:1D:108:GLU:OE1	1:1D:108:GLU:N	2.33	0.58
2:AC:226:ASN:ND2	2:AC:367:ASP:OD2	2.36	0.58
2:AE:226:ASN:ND2	2:AE:367:ASP:OD2	2.36	0.58
3:AF:330:GLU:O	3:AF:334:ASN:ND2	2.21	0.58
2:EC:226:ASN:ND2	2:EC:367:ASP:OD2	2.36	0.58
2:FA:16:ILE:HD11	2:FA:231:ILE:HB	1.84	0.58
2:FA:180:ALA:HB3	2:FA:183:GLU:HG3	1.84	0.58
3:GB:358:ILE:HD12	3:GB:359:PRO:HD2	1.84	0.58
2:GE:226:ASN:ND2	2:GE:367:ASP:OD2	2.36	0.58
3:HB:358:ILE:HD12	3:HB:359:PRO:HD2	1.84	0.58
3:HD:76:ASP:OD1	3:HD:79:ARG:NH2	2.37	0.58
2:HE:171:ILE:HA	2:HE:204:VAL:HB	1.86	0.58
2:JC:422:ARG:HA	2:JC:425:MET:HG2	1.83	0.58
2:LA:180:ALA:HB3	2:LA:183:GLU:HG3	1.84	0.58
2:LA:422:ARG:HA	2:LA:425:MET:HG2	1.83	0.58
2:LC:180:ALA:HB3	2:LC:183:GLU:HG3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LC:422:ARG:HA	2:LC:425:MET:HG2	1.83	0.58
2:MA:226:ASN:ND2	2:MA:367:ASP:OD2	2.36	0.58
4:MA:501:GTP:O3G	3:MB:254:LYS:NZ	2.36	0.58
3:MB:4:ILE:HG13	3:MB:136:GLN:OE1	2.04	0.58
2:ME:226:ASN:ND2	2:ME:367:ASP:OD2	2.36	0.58
2:NE:422:ARG:HA	2:NE:425:MET:HG2	1.83	0.58
1:1B:61:HIS:CG	2:AC:342:GLN:HB3	2.37	0.58
1:1E:67:ASN:HD21	3:NF:115:VAL:HG13	1.67	0.58
3:AB:185:TYR:OH	3:AB:398:MET:O	2.17	0.58
3:AD:76:ASP:OD1	3:AD:79:ARG:NH2	2.37	0.58
3:AF:76:ASP:OD1	3:AF:79:ARG:NH2	2.37	0.58
3:BB:4:ILE:HG13	3:BB:136:GLN:OE1	2.04	0.58
3:BF:4:ILE:HG13	3:BF:136:GLN:OE1	2.04	0.58
2:CC:226:ASN:ND2	2:CC:367:ASP:OD2	2.36	0.58
3:DB:319:PHE:N	3:DB:354:ALA:O	2.37	0.58
2:DC:394:LYS:HA	2:DC:394:LYS:HE2	1.86	0.58
3:DD:141:LEU:HD13	3:DD:170:SER:HB3	1.85	0.58
2:DE:394:LYS:HE2	2:DE:394:LYS:HA	1.86	0.58
2:EA:16:ILE:HD11	2:EA:231:ILE:HB	1.84	0.58
3:EB:76:ASP:OD1	3:EB:79:ARG:NH2	2.37	0.58
3:EB:358:ILE:HD12	3:EB:359:PRO:HD2	1.84	0.58
2:EC:180:ALA:HB3	2:EC:183:GLU:HG3	1.85	0.58
2:EC:394:LYS:HE2	2:EC:394:LYS:HA	1.86	0.58
3:ED:141:LEU:HD13	3:ED:170:SER:HB3	1.85	0.58
2:FA:171:ILE:HA	2:FA:204:VAL:HB	1.86	0.58
2:FC:171:ILE:HA	2:FC:204:VAL:HB	1.86	0.58
2:FC:180:ALA:HB3	2:FC:183:GLU:HG3	1.84	0.58
2:FE:180:ALA:HB3	2:FE:183:GLU:HG3	1.84	0.58
2:GA:394:LYS:HE2	2:GA:394:LYS:HA	1.86	0.58
2:GC:226:ASN:ND2	2:GC:367:ASP:OD2	2.36	0.58
2:HA:171:ILE:HA	2:HA:204:VAL:HB	1.86	0.58
2:HE:224:TYR:CE1	3:HF:325:MET:HG3	2.37	0.58
2:JE:422:ARG:HA	2:JE:425:MET:HG2	1.83	0.58
2:LA:101:ASN:H	3:LB:254:LYS:HZ2	1.49	0.58
2:LA:400:ALA:HB3	3:LB:346:TRP:CH2	2.35	0.58
3:LD:185:TYR:OH	3:LD:398:MET:O	2.17	0.58
3:MB:76:ASP:OD1	3:MB:79:ARG:NH2	2.37	0.58
3:MB:403:ALA:CB	2:MC:346:TRP:CZ3	2.85	0.58
2:MC:180:ALA:HB3	2:MC:183:GLU:HG3	1.84	0.58
3:MD:4:ILE:HG13	3:MD:136:GLN:OE1	2.04	0.58
3:MD:76:ASP:OD1	3:MD:79:ARG:NH2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:180:ALA:HB3	2:ME:183:GLU:HG3	1.84	0.58
3:MF:4:ILE:HG13	3:MF:136:GLN:OE1	2.04	0.58
3:MF:76:ASP:OD1	3:MF:79:ARG:NH2	2.37	0.58
1:1C:61:HIS:O	2:AE:308:ARG:O	2.21	0.58
3:AB:76:ASP:OD1	3:AB:79:ARG:NH2	2.37	0.58
3:BD:4:ILE:HG13	3:BD:136:GLN:OE1	2.04	0.58
2:CC:394:LYS:HE2	2:CC:394:LYS:HA	1.86	0.58
2:CE:226:ASN:ND2	2:CE:367:ASP:OD2	2.36	0.58
2:CE:394:LYS:HE2	2:CE:394:LYS:HA	1.86	0.58
3:CF:319:PHE:N	3:CF:354:ALA:O	2.37	0.58
2:DA:171:ILE:HA	2:DA:204:VAL:HB	1.86	0.58
3:DB:141:LEU:HD13	3:DB:170:SER:HB3	1.85	0.58
2:DC:171:ILE:HA	2:DC:204:VAL:HB	1.86	0.58
3:DD:319:PHE:N	3:DD:354:ALA:O	2.37	0.58
3:DD:330:GLU:O	3:DD:334:ASN:ND2	2.21	0.58
2:DE:171:ILE:HA	2:DE:204:VAL:HB	1.86	0.58
3:DF:141:LEU:HD13	3:DF:170:SER:HB3	1.85	0.58
2:EA:171:ILE:HA	2:EA:204:VAL:HB	1.86	0.58
2:EA:180:ALA:HB3	2:EA:183:GLU:HG3	1.84	0.58
3:EB:141:LEU:HD13	3:EB:170:SER:HB3	1.85	0.58
2:EC:171:ILE:HA	2:EC:204:VAL:HB	1.86	0.58
3:ED:76:ASP:OD1	3:ED:79:ARG:NH2	2.37	0.58
2:EE:16:ILE:HD11	2:EE:231:ILE:HB	1.84	0.58
2:EE:171:ILE:HA	2:EE:204:VAL:HB	1.86	0.58
2:EE:180:ALA:HB3	2:EE:183:GLU:HG3	1.84	0.58
2:FE:171:ILE:HA	2:FE:204:VAL:HB	1.86	0.58
2:GA:226:ASN:ND2	2:GA:367:ASP:OD2	2.36	0.58
2:GC:394:LYS:HE2	2:GC:394:LYS:HA	1.86	0.58
3:HB:76:ASP:OD1	3:HB:79:ARG:NH2	2.37	0.58
2:HC:107:HIS:HD1	2:HC:151:SER:HG	1.51	0.58
2:HC:171:ILE:HA	2:HC:204:VAL:HB	1.86	0.58
3:HD:319:PHE:N	3:HD:354:ALA:O	2.37	0.58
3:HF:76:ASP:OD1	3:HF:79:ARG:NH2	2.37	0.58
3:HF:143:GLY:O	3:HF:147:SER:OG	2.17	0.58
3:HF:319:PHE:N	3:HF:354:ALA:O	2.37	0.58
2:IC:226:ASN:ND2	2:IC:367:ASP:OD2	2.36	0.58
2:IE:180:ALA:HB3	2:IE:183:GLU:HG3	1.84	0.58
2:JA:422:ARG:HA	2:JA:425:MET:HG2	1.83	0.58
3:JF:76:ASP:OD1	3:JF:79:ARG:NH2	2.37	0.58
3:KF:141:LEU:HD13	3:KF:170:SER:HB3	1.85	0.58
2:MC:226:ASN:ND2	2:MC:367:ASP:OD2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:20:LEU:CD1	1:1D:112:ILE:HG12	2.34	0.58
1:1D:114:LEU:O	1:1D:118:LEU:HG	2.03	0.58
3:AD:4:ILE:HG13	3:AD:136:GLN:OE1	2.04	0.58
2:BA:16:ILE:HD11	2:BA:231:ILE:HB	1.84	0.58
2:BC:171:ILE:HA	2:BC:204:VAL:HB	1.86	0.58
2:CA:394:LYS:HA	2:CA:394:LYS:HE2	1.86	0.58
3:CB:76:ASP:OD1	3:CB:79:ARG:NH2	2.37	0.58
3:CB:319:PHE:N	3:CB:354:ALA:O	2.37	0.58
3:CD:319:PHE:N	3:CD:354:ALA:O	2.37	0.58
2:CE:56:THR:HA	2:DE:285:GLN:HB2	1.85	0.58
2:DA:394:LYS:HE2	2:DA:394:LYS:HA	1.86	0.58
3:DB:4:ILE:HG13	3:DB:136:GLN:OE1	2.04	0.58
3:DB:330:GLU:O	3:DB:334:ASN:ND2	2.21	0.58
3:DF:319:PHE:N	3:DF:354:ALA:O	2.37	0.58
2:EC:16:ILE:HD11	2:EC:231:ILE:HB	1.84	0.58
2:EE:394:LYS:HA	2:EE:394:LYS:HE2	1.86	0.58
2:FE:394:LYS:HE2	2:FE:394:LYS:HA	1.86	0.58
2:GE:394:LYS:HE2	2:GE:394:LYS:HA	1.86	0.58
2:HA:180:ALA:HB3	2:HA:183:GLU:HG3	1.84	0.58
2:HA:226:ASN:ND2	2:HA:367:ASP:OD2	2.36	0.58
2:HA:394:LYS:HE2	2:HA:394:LYS:HA	1.86	0.58
3:HB:319:PHE:N	3:HB:354:ALA:O	2.37	0.58
2:HC:180:ALA:HB3	2:HC:183:GLU:HG3	1.84	0.58
2:HC:226:ASN:ND2	2:HC:367:ASP:OD2	2.36	0.58
2:HC:394:LYS:HE2	2:HC:394:LYS:HA	1.86	0.58
2:HE:180:ALA:HB3	2:HE:183:GLU:HG3	1.84	0.58
2:HE:226:ASN:ND2	2:HE:367:ASP:OD2	2.36	0.58
2:IA:226:ASN:ND2	2:IA:367:ASP:OD2	2.36	0.58
3:IB:319:PHE:N	3:IB:354:ALA:O	2.37	0.58
2:IC:180:ALA:HB3	2:IC:183:GLU:HG3	1.84	0.58
3:ID:101:ASN:ND2	2:IE:254:GLU:OE2	2.36	0.58
3:ID:407:TRP:CE2	2:IE:257:THR:HG22	2.38	0.58
3:JB:4:ILE:HG13	3:JB:136:GLN:OE1	2.04	0.58
3:JD:4:ILE:HG13	3:JD:136:GLN:OE1	2.04	0.58
3:JD:76:ASP:OD1	3:JD:79:ARG:NH2	2.37	0.58
3:KB:76:ASP:OD1	3:KB:79:ARG:NH2	2.37	0.58
2:LE:180:ALA:HB3	2:LE:183:GLU:HG3	1.84	0.58
3:MD:143:GLY:O	3:MD:147:SER:OG	2.17	0.58
3:NF:319:PHE:N	3:NF:354:ALA:O	2.37	0.58
1:1B:114:LEU:O	1:1B:118:LEU:HG	2.03	0.58
3:AF:4:ILE:HG13	3:AF:136:GLN:OE1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:171:ILE:HA	2:BA:204:VAL:HB	1.86	0.58
4:BC:501:GTP:O3G	3:BD:254:LYS:NZ	2.36	0.58
3:BD:76:ASP:OD1	3:BD:79:ARG:NH2	2.37	0.58
2:BE:16:ILE:HD11	2:BE:231:ILE:HB	1.84	0.58
2:BE:171:ILE:HA	2:BE:204:VAL:HB	1.86	0.58
2:CA:171:ILE:HA	2:CA:204:VAL:HB	1.86	0.58
2:CC:171:ILE:HA	2:CC:204:VAL:HB	1.86	0.58
3:CD:76:ASP:OD1	3:CD:79:ARG:NH2	2.37	0.58
2:CE:171:ILE:HA	2:CE:204:VAL:HB	1.86	0.58
3:CF:141:LEU:HD13	3:CF:170:SER:HB3	1.85	0.58
2:EA:394:LYS:HE2	2:EA:394:LYS:HA	1.86	0.58
3:EB:403:ALA:HB2	2:EC:346:TRP:CZ2	2.38	0.58
2:EC:221:ARG:NH2	3:ED:327:GLU:OE2	2.35	0.58
3:EF:76:ASP:OD1	3:EF:79:ARG:NH2	2.37	0.58
2:FA:226:ASN:ND2	2:FA:367:ASP:OD2	2.36	0.58
2:FA:394:LYS:HA	2:FA:394:LYS:HE2	1.86	0.58
3:FD:76:ASP:OD1	3:FD:79:ARG:NH2	2.37	0.58
3:FF:76:ASP:OD1	3:FF:79:ARG:NH2	2.37	0.58
2:GA:171:ILE:HA	2:GA:204:VAL:HB	1.86	0.58
3:GF:76:ASP:OD1	3:GF:79:ARG:NH2	2.37	0.58
2:HE:394:LYS:HE2	2:HE:394:LYS:HA	1.86	0.58
3:ID:319:PHE:N	3:ID:354:ALA:O	2.37	0.58
3:JD:141:LEU:HD13	3:JD:170:SER:HB3	1.85	0.58
3:JF:4:ILE:HG13	3:JF:136:GLN:OE1	2.04	0.58
3:KD:141:LEU:HD13	3:KD:170:SER:HB3	1.85	0.58
2:KE:180:ALA:HB3	2:KE:183:GLU:HG3	1.84	0.58
3:LB:4:ILE:HG13	3:LB:136:GLN:OE1	2.04	0.58
3:LB:143:GLY:O	3:LB:147:SER:OG	2.17	0.58
3:LD:4:ILE:HG13	3:LD:136:GLN:OE1	2.04	0.58
4:ME:501:GTP:PG	3:MF:254:LYS:HZ1	2.26	0.58
3:NB:76:ASP:OD1	3:NB:79:ARG:NH2	2.37	0.58
1:1A:114:LEU:O	1:1A:118:LEU:HG	2.03	0.58
1:1C:20:LEU:CD1	1:1C:112:ILE:HG12	2.34	0.58
2:AA:394:LYS:HE2	2:AA:394:LYS:HA	1.86	0.58
3:AB:4:ILE:HG13	3:AB:136:GLN:OE1	2.04	0.58
2:AC:394:LYS:HA	2:AC:394:LYS:HE2	1.86	0.58
2:AE:394:LYS:HE2	2:AE:394:LYS:HA	1.86	0.58
3:AF:143:GLY:O	3:AF:147:SER:OG	2.17	0.58
3:BB:76:ASP:OD1	3:BB:79:ARG:NH2	2.37	0.58
3:BB:158:ARG:NH1	3:BB:199:ASP:OD2	2.31	0.58
2:BC:16:ILE:HD11	2:BC:231:ILE:HB	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:158:ARG:NH1	3:BD:199:ASP:OD2	2.31	0.58
2:BE:394:LYS:HA	2:BE:394:LYS:HE2	1.86	0.58
3:BF:158:ARG:NH1	3:BF:199:ASP:OD2	2.31	0.58
3:CB:141:LEU:HD13	3:CB:170:SER:HB3	1.85	0.58
3:CD:141:LEU:HD13	3:CD:170:SER:HB3	1.85	0.58
3:CF:76:ASP:OD1	3:CF:79:ARG:NH2	2.37	0.58
2:DA:16:ILE:HD11	2:DA:231:ILE:HB	1.84	0.58
2:DA:105:ARG:NH1	3:DB:253:ARG:HD2	2.18	0.58
2:DC:16:ILE:HD11	2:DC:231:ILE:HB	1.84	0.58
3:DD:4:ILE:HG13	3:DD:136:GLN:OE1	2.04	0.58
2:DE:16:ILE:HD11	2:DE:231:ILE:HB	1.84	0.58
3:DF:4:ILE:HG13	3:DF:136:GLN:OE1	2.04	0.58
3:DF:76:ASP:OD1	3:DF:79:ARG:NH2	2.37	0.58
3:EB:319:PHE:N	3:EB:354:ALA:O	2.37	0.58
3:FB:76:ASP:OD1	3:FB:79:ARG:NH2	2.37	0.58
2:FC:394:LYS:HE2	2:FC:394:LYS:HA	1.86	0.58
2:GC:171:ILE:HA	2:GC:204:VAL:HB	1.86	0.58
3:GD:76:ASP:OD1	3:GD:79:ARG:NH2	2.37	0.58
2:GE:171:ILE:HA	2:GE:204:VAL:HB	1.86	0.58
2:IA:171:ILE:HA	2:IA:204:VAL:HB	1.86	0.58
2:IA:180:ALA:HB3	2:IA:183:GLU:HG3	1.84	0.58
2:IE:226:ASN:ND2	2:IE:367:ASP:OD2	2.36	0.58
2:IE:394:LYS:HE2	2:IE:394:LYS:HA	1.86	0.58
3:IF:319:PHE:N	3:IF:354:ALA:O	2.37	0.58
3:JB:76:ASP:OD1	3:JB:79:ARG:NH2	2.37	0.58
3:JB:141:LEU:HD13	3:JB:170:SER:HB3	1.85	0.58
2:JC:171:ILE:HA	2:JC:204:VAL:HB	1.86	0.58
2:JE:226:ASN:ND2	2:JE:367:ASP:OD2	2.36	0.58
3:JF:141:LEU:HD13	3:JF:170:SER:HB3	1.85	0.58
3:KB:141:LEU:HD13	3:KB:170:SER:HB3	1.85	0.58
3:KD:76:ASP:OD1	3:KD:79:ARG:NH2	2.37	0.58
3:KF:69:ASP:OD2	3:KF:74:THR:OG1	2.18	0.58
3:LD:143:GLY:O	3:LD:147:SER:OG	2.17	0.58
3:LF:4:ILE:HG13	3:LF:136:GLN:OE1	2.04	0.58
3:NF:274:PRO:HA	3:NF:294:GLN:HE22	1.69	0.58
1:1A:20:LEU:CD1	1:1A:112:ILE:HG12	2.34	0.58
3:AD:185:TYR:OH	3:AD:398:MET:O	2.17	0.58
2:BA:394:LYS:HE2	2:BA:394:LYS:HA	1.86	0.58
3:BB:185:TYR:OH	3:BB:398:MET:O	2.17	0.58
2:BC:394:LYS:HE2	2:BC:394:LYS:HA	1.86	0.58
3:BF:76:ASP:OD1	3:BF:79:ARG:NH2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:313:MET:HG3	2:CA:344:VAL:HG21	1.86	0.58
3:DB:274:PRO:HA	3:DB:294:GLN:HE22	1.69	0.58
3:ED:319:PHE:N	3:ED:354:ALA:O	2.37	0.58
3:EF:143:GLY:O	3:EF:147:SER:OG	2.17	0.58
3:FB:330:GLU:O	3:FB:334:ASN:ND2	2.21	0.58
2:FC:226:ASN:ND2	2:FC:367:ASP:OD2	2.36	0.58
2:FE:401:LYS:HD3	3:FF:346:TRP:NE1	2.15	0.58
3:GB:76:ASP:OD1	3:GB:79:ARG:NH2	2.37	0.58
2:GC:180:ALA:HB3	2:GC:183:GLU:HG3	1.84	0.58
2:GE:180:ALA:HB3	2:GE:183:GLU:HG3	1.84	0.58
3:IB:136:GLN:OE1	3:IB:136:GLN:N	2.35	0.58
3:ID:136:GLN:OE1	3:ID:136:GLN:N	2.35	0.58
2:JA:171:ILE:HA	2:JA:204:VAL:HB	1.86	0.58
3:KB:69:ASP:OD2	3:KB:74:THR:OG1	2.18	0.58
3:KF:76:ASP:OD1	3:KF:79:ARG:NH2	2.37	0.58
3:LB:141:LEU:HD13	3:LB:170:SER:HB3	1.85	0.58
2:LC:401:LYS:CD	3:LD:346:TRP:HE1	2.16	0.58
3:LF:141:LEU:HD13	3:LF:170:SER:HB3	1.85	0.58
3:LF:143:GLY:O	3:LF:147:SER:OG	2.17	0.58
2:ME:315:CYS:SG	2:ME:377:MET:HE1	2.44	0.58
2:NA:394:LYS:HA	2:NA:394:LYS:HE2	1.86	0.58
3:NB:274:PRO:HA	3:NB:294:GLN:HE22	1.69	0.58
3:ND:76:ASP:OD1	3:ND:79:ARG:NH2	2.37	0.58
2:NE:315:CYS:SG	2:NE:377:MET:HE1	2.44	0.58
3:AB:319:PHE:N	3:AB:354:ALA:O	2.37	0.58
3:AD:143:GLY:O	3:AD:147:SER:OG	2.17	0.58
3:AF:274:PRO:HA	3:AF:294:GLN:HE22	1.69	0.58
3:BF:185:TYR:OH	3:BF:398:MET:O	2.17	0.58
2:CE:107:HIS:HD1	2:CE:151:SER:HG	1.52	0.58
3:DD:274:PRO:HA	3:DD:294:GLN:HE22	1.69	0.58
2:EA:400:ALA:HB3	3:EB:346:TRP:HH2	1.69	0.58
2:EC:221:ARG:NE	3:ED:324:SER:HB3	2.19	0.58
3:HD:394:GLN:HE22	2:HE:348:PRO:HG2	1.68	0.58
2:IC:171:ILE:HA	2:IC:204:VAL:HB	1.86	0.58
2:IE:171:ILE:HA	2:IE:204:VAL:HB	1.86	0.58
2:JC:394:LYS:HE2	2:JC:394:LYS:HA	1.86	0.58
2:KC:180:ALA:HB3	2:KC:183:GLU:HG3	1.84	0.58
3:LB:319:PHE:N	3:LB:354:ALA:O	2.37	0.58
2:LC:394:LYS:HA	2:LC:394:LYS:HE2	1.86	0.58
3:LD:136:GLN:OE1	3:LD:136:GLN:N	2.35	0.58
3:LD:141:LEU:HD13	3:LD:170:SER:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:319:PHE:N	3:LD:354:ALA:O	2.37	0.58
3:LF:319:PHE:N	3:LF:354:ALA:O	2.37	0.58
2:MA:315:CYS:SG	2:MA:377:MET:HE1	2.44	0.58
2:NA:224:TYR:CE1	3:NB:325:MET:HE2	2.39	0.58
2:NC:394:LYS:HE2	2:NC:394:LYS:HA	1.86	0.58
3:ND:274:PRO:HA	3:ND:294:GLN:HE22	1.69	0.58
3:NF:76:ASP:OD1	3:NF:79:ARG:NH2	2.37	0.58
1:1B:20:LEU:CD1	1:1B:112:ILE:HG12	2.34	0.57
2:AA:315:CYS:SG	2:AA:377:MET:HE1	2.44	0.57
3:AB:143:GLY:O	3:AB:147:SER:OG	2.17	0.57
2:AC:315:CYS:SG	2:AC:377:MET:HE1	2.44	0.57
3:AD:319:PHE:N	3:AD:354:ALA:O	2.37	0.57
3:CB:185:TYR:OH	3:CB:398:MET:O	2.17	0.57
2:CC:313:MET:HG3	2:CC:344:VAL:HG21	1.86	0.57
3:CD:185:TYR:OH	3:CD:398:MET:O	2.17	0.57
2:CE:313:MET:HG3	2:CE:344:VAL:HG21	1.86	0.57
2:DA:226:ASN:ND2	2:DA:367:ASP:OD2	2.36	0.57
3:DB:76:ASP:OD1	3:DB:79:ARG:NH2	2.37	0.57
2:DC:226:ASN:ND2	2:DC:367:ASP:OD2	2.36	0.57
3:DD:76:ASP:OD1	3:DD:79:ARG:NH2	2.37	0.57
3:DF:274:PRO:HA	3:DF:294:GLN:HE22	1.69	0.57
3:EF:185:TYR:OH	3:EF:398:MET:O	2.17	0.57
3:EF:274:PRO:HA	3:EF:294:GLN:HE22	1.69	0.57
3:EF:319:PHE:N	3:EF:354:ALA:O	2.37	0.57
3:ID:401:ARG:O	2:IE:346:TRP:CH2	2.56	0.57
3:IF:136:GLN:OE1	3:IF:136:GLN:N	2.35	0.57
2:JA:226:ASN:ND2	2:JA:367:ASP:OD2	2.36	0.57
2:JC:180:ALA:HB3	2:JC:183:GLU:HG3	1.84	0.57
2:JC:226:ASN:ND2	2:JC:367:ASP:OD2	2.36	0.57
2:JE:171:ILE:HA	2:JE:204:VAL:HB	1.86	0.57
2:JE:180:ALA:HB3	2:JE:183:GLU:HG3	1.84	0.57
2:JE:394:LYS:HA	2:JE:394:LYS:HE2	1.86	0.57
2:KA:180:ALA:HB3	2:KA:183:GLU:HG3	1.84	0.57
2:KA:313:MET:HG3	2:KA:344:VAL:HG21	1.86	0.57
2:KC:394:LYS:HE2	2:KC:394:LYS:HA	1.86	0.57
3:KD:69:ASP:OD2	3:KD:74:THR:OG1	2.18	0.57
2:KE:394:LYS:HE2	2:KE:394:LYS:HA	1.86	0.57
4:LC:501:GTP:O3G	3:LD:254:LYS:NZ	2.37	0.57
3:LF:76:ASP:OD1	3:LF:79:ARG:NH2	2.37	0.57
3:MB:143:GLY:O	3:MB:147:SER:OG	2.17	0.57
2:MC:394:LYS:HE2	2:MC:394:LYS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NA:315:CYS:SG	2:NA:377:MET:HE1	2.44	0.57
3:NB:141:LEU:HD13	3:NB:170:SER:HB3	1.85	0.57
2:NC:315:CYS:SG	2:NC:377:MET:HE1	2.44	0.57
3:ND:401:ARG:NH2	2:NE:345:ASP:OD2	2.32	0.57
2:AA:171:ILE:HA	2:AA:204:VAL:HB	1.86	0.57
3:AB:274:PRO:HA	3:AB:294:GLN:HE22	1.69	0.57
3:AD:274:PRO:HA	3:AD:294:GLN:HE22	1.69	0.57
2:AE:171:ILE:HA	2:AE:204:VAL:HB	1.86	0.57
2:AE:401:LYS:HD3	3:AF:346:TRP:HE1	1.69	0.57
3:AF:319:PHE:N	3:AF:354:ALA:O	2.37	0.57
3:BD:185:TYR:OH	3:BD:398:MET:O	2.17	0.57
2:BE:313:MET:HG3	2:BE:344:VAL:HG21	1.86	0.57
3:CF:185:TYR:OH	3:CF:398:MET:O	2.17	0.57
3:DB:136:GLN:OE1	3:DB:136:GLN:N	2.35	0.57
3:DD:136:GLN:OE1	3:DD:136:GLN:N	2.35	0.57
2:DE:226:ASN:ND2	2:DE:367:ASP:OD2	2.36	0.57
2:DE:313:MET:HG3	2:DE:344:VAL:HG21	1.86	0.57
3:FD:330:GLU:O	3:FD:334:ASN:ND2	2.21	0.57
2:FE:226:ASN:ND2	2:FE:367:ASP:OD2	2.36	0.57
2:GA:180:ALA:HB3	2:GA:183:GLU:HG3	1.84	0.57
2:GA:315:CYS:SG	2:GA:377:MET:HE1	2.44	0.57
3:GB:274:PRO:HA	3:GB:294:GLN:HE22	1.69	0.57
3:HD:274:PRO:HA	3:HD:294:GLN:HE22	1.69	0.57
2:IA:394:LYS:HE2	2:IA:394:LYS:HA	1.86	0.57
2:IC:313:MET:HG3	2:IC:344:VAL:HG21	1.86	0.57
2:IC:394:LYS:HE2	2:IC:394:LYS:HA	1.86	0.57
2:JA:180:ALA:HB3	2:JA:183:GLU:HG3	1.84	0.57
2:JA:394:LYS:HE2	2:JA:394:LYS:HA	1.86	0.57
2:KA:394:LYS:HA	2:KA:394:LYS:HE2	1.86	0.57
3:KB:4:ILE:HG13	3:KB:136:GLN:OE1	2.04	0.57
3:KB:274:PRO:HA	3:KB:294:GLN:HE22	1.69	0.57
3:KD:181:VAL:HG13	2:KE:349:THR:CG2	2.33	0.57
3:KD:407:TRP:CE2	2:KE:257:THR:HG22	2.38	0.57
2:LA:394:LYS:HE2	2:LA:394:LYS:HA	1.86	0.57
3:LB:274:PRO:HA	3:LB:294:GLN:HE22	1.69	0.57
2:LC:315:CYS:SG	2:LC:377:MET:HE1	2.44	0.57
2:LE:315:CYS:SG	2:LE:377:MET:HE1	2.44	0.57
3:LF:136:GLN:OE1	3:LF:136:GLN:N	2.35	0.57
2:MA:394:LYS:HE2	2:MA:394:LYS:HA	1.86	0.57
2:MC:171:ILE:HA	2:MC:204:VAL:HB	1.86	0.57
2:MC:315:CYS:SG	2:MC:377:MET:HE1	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NA:171:ILE:HA	2:NA:204:VAL:HB	1.86	0.57
2:NC:171:ILE:HA	2:NC:204:VAL:HB	1.86	0.57
2:NE:394:LYS:HE2	2:NE:394:LYS:HA	1.86	0.57
1:1E:20:LEU:CD1	1:1E:112:ILE:HG12	2.34	0.57
2:AC:171:ILE:HA	2:AC:204:VAL:HB	1.86	0.57
2:AE:315:CYS:SG	2:AE:377:MET:HE1	2.44	0.57
2:BA:394:LYS:HZ3	3:BB:348:PRO:HG3	1.68	0.57
2:BC:313:MET:HG3	2:BC:344:VAL:HG21	1.86	0.57
2:BE:315:CYS:SG	2:BE:377:MET:HE1	2.44	0.57
2:DA:265:ILE:HG13	2:DA:432:TYR:CE1	2.40	0.57
2:DC:265:ILE:HG13	2:DC:432:TYR:CE1	2.40	0.57
2:FE:315:CYS:SG	2:FE:377:MET:HE1	2.44	0.57
2:GC:315:CYS:SG	2:GC:377:MET:HE1	2.44	0.57
2:GE:315:CYS:SG	2:GE:377:MET:HE1	2.44	0.57
2:HC:265:ILE:HG13	2:HC:432:TYR:CE1	2.40	0.57
2:HE:100:ALA:HA	3:HF:254:LYS:HD3	1.86	0.57
3:HF:274:PRO:HA	3:HF:294:GLN:HE22	1.69	0.57
2:IC:265:ILE:HG13	2:IC:432:TYR:CE1	2.40	0.57
2:IE:265:ILE:HG13	2:IE:432:TYR:CE1	2.40	0.57
2:IE:313:MET:HG3	2:IE:344:VAL:HG21	1.86	0.57
2:JC:100:ALA:O	3:JD:257:VAL:HG11	2.04	0.57
2:KA:171:ILE:HA	2:KA:204:VAL:HB	1.86	0.57
2:KC:171:ILE:HA	2:KC:204:VAL:HB	1.86	0.57
2:KC:313:MET:HG3	2:KC:344:VAL:HG21	1.86	0.57
3:KD:4:ILE:HG13	3:KD:136:GLN:OE1	2.04	0.57
2:KE:171:ILE:HA	2:KE:204:VAL:HB	1.86	0.57
2:KE:313:MET:HG3	2:KE:344:VAL:HG21	1.86	0.57
2:LA:315:CYS:SG	2:LA:377:MET:HE1	2.44	0.57
3:LD:76:ASP:OD1	3:LD:79:ARG:NH2	2.37	0.57
3:LD:274:PRO:HA	3:LD:294:GLN:HE22	1.69	0.57
2:LE:394:LYS:HE2	2:LE:394:LYS:HA	1.86	0.57
3:MB:274:PRO:HA	3:MB:294:GLN:HE22	1.69	0.57
2:ME:171:ILE:HA	2:ME:204:VAL:HB	1.86	0.57
2:ME:394:LYS:HA	2:ME:394:LYS:HE2	1.86	0.57
3:MF:141:LEU:HD13	3:MF:170:SER:HB3	1.85	0.57
3:ND:141:LEU:HD13	3:ND:170:SER:HB3	1.85	0.57
3:NF:4:ILE:HG13	3:NF:136:GLN:OE1	2.04	0.57
4:AC:501:GTP:O3G	3:AD:254:LYS:NZ	2.38	0.57
2:BA:313:MET:HG3	2:BA:344:VAL:HG21	1.86	0.57
3:BB:141:LEU:HD13	3:BB:170:SER:HB3	1.85	0.57
2:BC:226:ASN:ND2	2:BC:367:ASP:OD2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:101:ASN:ND2	2:CE:254:GLU:OE2	2.38	0.57
2:DA:313:MET:HG3	2:DA:344:VAL:HG21	1.86	0.57
2:DC:313:MET:HG3	2:DC:344:VAL:HG21	1.86	0.57
2:DE:265:ILE:HG13	2:DE:432:TYR:CE1	2.40	0.57
3:EB:274:PRO:HA	3:EB:294:GLN:HE22	1.69	0.57
3:ED:4:ILE:HG13	3:ED:136:GLN:OE1	2.04	0.57
3:ED:274:PRO:HA	3:ED:294:GLN:HE22	1.69	0.57
2:FA:315:CYS:SG	2:FA:377:MET:HE1	2.44	0.57
2:FC:265:ILE:HG13	2:FC:432:TYR:CE1	2.40	0.57
2:FC:315:CYS:SG	2:FC:377:MET:HE1	2.44	0.57
2:HA:265:ILE:HG13	2:HA:432:TYR:CE1	2.40	0.57
2:HE:101:ASN:H	3:HF:254:LYS:HZ3	1.51	0.57
2:HE:265:ILE:HG13	2:HE:432:TYR:CE1	2.40	0.57
2:IA:265:ILE:HG13	2:IA:432:TYR:CE1	2.40	0.57
3:KB:158:ARG:NH1	3:KB:199:ASP:OD2	2.31	0.57
2:KE:222:PRO:O	3:KF:326:LYS:NZ	2.38	0.57
2:KE:377:MET:HE3	2:KE:379:SER:HB2	1.86	0.57
3:LB:76:ASP:OD1	3:LB:79:ARG:NH2	2.37	0.57
2:MA:171:ILE:HA	2:MA:204:VAL:HB	1.86	0.57
2:NE:171:ILE:HA	2:NE:204:VAL:HB	1.86	0.57
3:BB:274:PRO:HA	3:BB:294:GLN:HE22	1.69	0.57
2:BC:315:CYS:SG	2:BC:377:MET:HE1	2.44	0.57
3:BD:274:PRO:HA	3:BD:294:GLN:HE22	1.69	0.57
2:BE:226:ASN:ND2	2:BE:367:ASP:OD2	2.36	0.57
3:CB:394:GLN:NE2	2:CC:348:PRO:HG2	2.19	0.57
2:EA:265:ILE:HG13	2:EA:432:TYR:CE1	2.40	0.57
2:EC:265:ILE:HG13	2:EC:432:TYR:CE1	2.40	0.57
2:EE:265:ILE:HG13	2:EE:432:TYR:CE1	2.40	0.57
3:FB:319:PHE:N	3:FB:354:ALA:O	2.37	0.57
2:FE:265:ILE:HG13	2:FE:432:TYR:CE1	2.40	0.57
2:GC:221:ARG:NE	3:GD:324:SER:HB3	2.19	0.57
3:GD:274:PRO:HA	3:GD:294:GLN:HE22	1.69	0.57
2:GE:265:ILE:HG13	2:GE:432:TYR:CE1	2.40	0.57
3:HB:274:PRO:HA	3:HB:294:GLN:HE22	1.69	0.57
2:HC:221:ARG:NE	3:HD:324:SER:HB3	2.19	0.57
3:IF:76:ASP:OD1	3:IF:79:ARG:NH2	2.37	0.57
2:JE:222:PRO:O	3:JF:326:LYS:NZ	2.38	0.57
2:KC:377:MET:HE3	2:KC:379:SER:HB2	1.86	0.57
3:KF:4:ILE:HG13	3:KF:136:GLN:OE1	2.04	0.57
3:ND:4:ILE:HG13	3:ND:136:GLN:OE1	2.04	0.57
2:BA:226:ASN:ND2	2:BA:367:ASP:OD2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:315:CYS:SG	2:BA:377:MET:HE1	2.44	0.57
3:EB:4:ILE:HG13	3:EB:136:GLN:OE1	2.04	0.57
3:EF:4:ILE:HG13	3:EF:136:GLN:OE1	2.04	0.57
2:FA:265:ILE:HG13	2:FA:432:TYR:CE1	2.40	0.57
2:FA:313:MET:HG3	2:FA:344:VAL:HG21	1.86	0.57
2:GA:265:ILE:HG13	2:GA:432:TYR:CE1	2.40	0.57
3:GB:136:GLN:OE1	3:GB:136:GLN:N	2.35	0.57
2:GC:265:ILE:HG13	2:GC:432:TYR:CE1	2.40	0.57
2:HA:168:GLU:O	2:HA:202:PHE:N	2.31	0.57
2:HE:107:HIS:HD1	2:HE:151:SER:HG	1.52	0.57
3:HF:4:ILE:HG13	3:HF:136:GLN:OE1	2.04	0.57
2:IA:313:MET:HG3	2:IA:344:VAL:HG21	1.86	0.57
2:JA:265:ILE:HG13	2:JA:432:TYR:CE1	2.40	0.57
2:JC:265:ILE:HG13	2:JC:432:TYR:CE1	2.40	0.57
2:JE:377:MET:HE3	2:JE:379:SER:HB2	1.87	0.57
3:KD:274:PRO:HA	3:KD:294:GLN:HE22	1.69	0.57
3:LF:274:PRO:HA	3:LF:294:GLN:HE22	1.69	0.57
2:MC:377:MET:HE3	2:MC:379:SER:HB2	1.87	0.57
3:MD:141:LEU:HD13	3:MD:170:SER:HB3	1.85	0.57
3:MD:274:PRO:HA	3:MD:294:GLN:HE22	1.69	0.57
2:ME:377:MET:HE3	2:ME:379:SER:HB2	1.87	0.57
3:NB:4:ILE:HG13	3:NB:136:GLN:OE1	2.04	0.57
3:NF:141:LEU:HD13	3:NF:170:SER:HB3	1.85	0.57
1:1C:61:HIS:CA	2:AE:308:ARG:HH12	2.18	0.57
2:AC:313:MET:HG3	2:AC:344:VAL:HG21	1.86	0.57
3:BD:141:LEU:HD13	3:BD:170:SER:HB3	1.85	0.57
2:BE:400:ALA:HB3	3:BF:346:TRP:CH2	2.31	0.57
2:CA:401:LYS:CD	3:CB:346:TRP:HE1	2.15	0.57
2:CC:265:ILE:HG13	2:CC:432:TYR:CE1	2.40	0.57
2:CE:265:ILE:HG13	2:CE:432:TYR:CE1	2.40	0.57
3:ED:143:GLY:O	3:ED:147:SER:OG	2.17	0.57
3:FB:4:ILE:HG13	3:FB:136:GLN:OE1	2.04	0.57
3:FB:274:PRO:HA	3:FB:294:GLN:HE22	1.69	0.57
3:FD:274:PRO:HA	3:FD:294:GLN:HE22	1.69	0.57
3:FD:319:PHE:N	3:FD:354:ALA:O	2.37	0.57
3:FF:4:ILE:HG13	3:FF:136:GLN:OE1	2.04	0.57
3:FF:319:PHE:N	3:FF:354:ALA:O	2.37	0.57
3:GB:4:ILE:HG13	3:GB:136:GLN:OE1	2.04	0.57
3:GF:4:ILE:HG13	3:GF:136:GLN:OE1	2.04	0.57
3:HB:4:ILE:HG13	3:HB:136:GLN:OE1	2.04	0.57
3:HB:210:TYR:HA	3:HB:213:CYS:SG	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:76:ASP:OD1	3:ID:79:ARG:NH2	2.37	0.57
3:JB:274:PRO:HA	3:JB:294:GLN:HE22	1.69	0.57
2:JE:265:ILE:HG13	2:JE:432:TYR:CE1	2.40	0.57
2:LE:171:ILE:HA	2:LE:204:VAL:HB	1.86	0.57
3:MF:274:PRO:HA	3:MF:294:GLN:HE22	1.69	0.57
2:CA:265:ILE:HG13	2:CA:432:TYR:CE1	2.40	0.57
3:CB:4:ILE:HG13	3:CB:136:GLN:OE1	2.04	0.57
3:CB:69:ASP:OD2	3:CB:74:THR:OG1	2.18	0.57
3:CD:4:ILE:HG13	3:CD:136:GLN:OE1	2.04	0.57
3:CF:4:ILE:HG13	3:CF:136:GLN:OE1	2.04	0.57
2:EA:313:MET:HG3	2:EA:344:VAL:HG21	1.86	0.57
2:EC:313:MET:HG3	2:EC:344:VAL:HG21	1.86	0.57
2:EE:313:MET:HG3	2:EE:344:VAL:HG21	1.86	0.57
3:EF:389:LYS:HB3	3:EF:429:VAL:HG21	1.87	0.57
3:FD:4:ILE:HG13	3:FD:136:GLN:OE1	2.04	0.57
3:FD:210:TYR:HA	3:FD:213:CYS:SG	2.45	0.57
2:FE:313:MET:HG3	2:FE:344:VAL:HG21	1.86	0.57
3:FF:210:TYR:HA	3:FF:213:CYS:SG	2.45	0.57
3:GD:4:ILE:HG13	3:GD:136:GLN:OE1	2.04	0.57
3:GF:210:TYR:HA	3:GF:213:CYS:SG	2.45	0.57
3:GF:274:PRO:HA	3:GF:294:GLN:HE22	1.69	0.57
3:HD:4:ILE:HG13	3:HD:136:GLN:OE1	2.04	0.57
3:HD:210:TYR:HA	3:HD:213:CYS:SG	2.45	0.57
2:HE:315:CYS:SG	2:HE:377:MET:HE1	2.44	0.57
3:HF:210:TYR:HA	3:HF:213:CYS:SG	2.45	0.57
3:IB:76:ASP:OD1	3:IB:79:ARG:NH2	2.37	0.57
3:IB:274:PRO:HA	3:IB:294:GLN:HE22	1.69	0.57
2:IC:377:MET:HE3	2:IC:379:SER:HB2	1.87	0.57
2:IE:377:MET:HE3	2:IE:379:SER:HB2	1.87	0.57
2:KA:315:CYS:SG	2:KA:377:MET:HE1	2.44	0.57
2:KC:401:LYS:CE	3:KD:346:TRP:HE1	2.18	0.57
3:KF:274:PRO:HA	3:KF:294:GLN:HE22	1.69	0.57
2:LA:171:ILE:HA	2:LA:204:VAL:HB	1.86	0.57
2:LC:171:ILE:HA	2:LC:204:VAL:HB	1.86	0.57
2:LC:377:MET:HE3	2:LC:379:SER:HB2	1.87	0.57
2:LE:377:MET:HE3	2:LE:379:SER:HB2	1.87	0.57
2:ME:224:TYR:CE1	3:MF:325:MET:HE2	2.39	0.57
2:NC:377:MET:HE3	2:NC:379:SER:HB2	1.86	0.57
2:NE:313:MET:HG3	2:NE:344:VAL:HG21	1.86	0.57
1:1B:82:LYS:HA	1:1B:85:LYS:HZ3	1.69	0.57
3:AD:141:LEU:HD13	3:AD:170:SER:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:278:ARG:HH22	7:BB:502:TA1:H232	1.70	0.57
3:BF:141:LEU:HD13	3:BF:170:SER:HB3	1.85	0.57
3:BF:274:PRO:HA	3:BF:294:GLN:HE22	1.69	0.57
2:CC:315:CYS:SG	2:CC:377:MET:HE1	2.44	0.57
2:CE:315:CYS:SG	2:CE:377:MET:HE1	2.44	0.57
3:CF:274:PRO:HA	3:CF:294:GLN:HE22	1.69	0.57
2:EA:315:CYS:SG	2:EA:377:MET:HE1	2.44	0.57
3:EB:88:ARG:HH22	3:FB:283:TYR:HB3	1.70	0.57
3:EB:189:LEU:O	3:EB:193:GLN:NE2	2.36	0.57
3:FB:210:TYR:HA	3:FB:213:CYS:SG	2.45	0.57
2:FC:313:MET:HG3	2:FC:344:VAL:HG21	1.86	0.57
3:GD:210:TYR:HA	3:GD:213:CYS:SG	2.45	0.57
2:HC:315:CYS:SG	2:HC:377:MET:HE1	2.44	0.57
3:ID:274:PRO:HA	3:ID:294:GLN:HE22	1.69	0.57
2:JA:377:MET:HE3	2:JA:379:SER:HB2	1.87	0.57
3:JB:221:THR:CA	2:JC:326:LYS:HZ3	2.15	0.57
2:JC:377:MET:HE3	2:JC:379:SER:HB2	1.87	0.57
3:JD:274:PRO:HA	3:JD:294:GLN:HE22	1.69	0.57
2:KA:377:MET:HE3	2:KA:379:SER:HB2	1.87	0.57
2:KC:315:CYS:SG	2:KC:377:MET:HE1	2.44	0.57
3:LB:330:GLU:O	3:LB:334:ASN:ND2	2.21	0.57
2:MA:377:MET:HE3	2:MA:379:SER:HB2	1.87	0.57
3:MB:141:LEU:HD13	3:MB:170:SER:HB3	1.85	0.57
2:NE:377:MET:HE3	2:NE:379:SER:HB2	1.87	0.57
1:1A:108:GLU:OE1	1:1A:108:GLU:N	2.33	0.57
1:1C:82:LYS:HA	1:1C:85:LYS:NZ	2.20	0.57
1:1D:82:LYS:HA	1:1D:85:LYS:NZ	2.20	0.57
2:AA:313:MET:HG3	2:AA:344:VAL:HG21	1.86	0.57
3:AB:278:ARG:HH22	7:AB:502:TA1:H232	1.70	0.57
3:AD:278:ARG:HH22	7:AD:502:TA1:H232	1.70	0.57
2:AE:313:MET:HG3	2:AE:344:VAL:HG21	1.86	0.57
3:AF:278:ARG:HH22	7:AF:502:TA1:H232	1.70	0.57
2:BA:265:ILE:HG13	2:BA:432:TYR:CE1	2.40	0.57
2:BC:265:ILE:HG13	2:BC:432:TYR:CE1	2.40	0.57
3:CB:274:PRO:HA	3:CB:294:GLN:HE22	1.69	0.57
3:CB:278:ARG:HH22	7:CB:502:TA1:H232	1.70	0.57
3:CD:274:PRO:HA	3:CD:294:GLN:HE22	1.69	0.57
3:CD:278:ARG:HH22	7:CD:502:TA1:H232	1.70	0.57
3:CF:278:ARG:HH22	7:CF:502:TA1:H232	1.70	0.57
3:DB:189:LEU:O	3:DB:193:GLN:NE2	2.36	0.57
3:DB:278:ARG:HH22	7:DB:502:TA1:H232	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:278:ARG:HH22	7:DF:502:TA1:H232	1.70	0.57
3:DF:330:GLU:O	3:DF:334:ASN:ND2	2.21	0.57
3:ED:189:LEU:O	3:ED:193:GLN:NE2	2.36	0.57
2:EE:315:CYS:SG	2:EE:377:MET:HE1	2.44	0.57
3:EF:88:ARG:HH22	3:FF:283:TYR:CB	2.17	0.57
3:EF:189:LEU:O	3:EF:193:GLN:NE2	2.36	0.57
3:FB:278:ARG:HH22	7:FB:502:TA1:H232	1.70	0.57
3:GB:210:TYR:HA	3:GB:213:CYS:SG	2.45	0.57
3:GF:389:LYS:HB3	3:GF:429:VAL:HG21	1.87	0.57
2:HA:315:CYS:SG	2:HA:377:MET:HE1	2.44	0.57
2:IA:377:MET:HE3	2:IA:379:SER:HB2	1.87	0.57
3:IF:274:PRO:HA	3:IF:294:GLN:HE22	1.69	0.57
3:JB:259:MET:HA	3:JB:314:THR:HG21	1.87	0.57
3:JF:274:PRO:HA	3:JF:294:GLN:HE22	1.69	0.57
2:KC:265:ILE:HG13	2:KC:432:TYR:CE1	2.40	0.57
2:KE:315:CYS:SG	2:KE:377:MET:HE1	2.44	0.57
3:LB:259:MET:HA	3:LB:314:THR:HG21	1.87	0.57
3:MB:330:GLU:O	3:MB:334:ASN:ND2	2.21	0.57
3:MD:278:ARG:HH22	7:MD:502:TA1:H232	1.70	0.57
2:ME:401:LYS:HD3	3:MF:346:TRP:NE1	2.19	0.57
3:MF:278:ARG:HH22	7:MF:502:TA1:H232	1.70	0.57
2:NC:313:MET:HG3	2:NC:344:VAL:HG21	1.86	0.57
3:ND:278:ARG:HH22	7:ND:502:TA1:H232	1.70	0.57
1:1B:108:GLU:OE1	1:1B:108:GLU:N	2.33	0.56
3:AB:141:LEU:HD13	3:AB:170:SER:HB3	1.85	0.56
3:AF:141:LEU:HD13	3:AF:170:SER:HB3	1.85	0.56
3:BB:319:PHE:N	3:BB:354:ALA:O	2.37	0.56
3:BD:278:ARG:HH22	7:BD:502:TA1:H232	1.71	0.56
3:BF:278:ARG:HH22	7:BF:502:TA1:H232	1.71	0.56
2:CA:315:CYS:SG	2:CA:377:MET:HE1	2.44	0.56
3:DD:278:ARG:HH22	7:DD:502:TA1:H232	1.70	0.56
3:DF:136:GLN:OE1	3:DF:136:GLN:N	2.35	0.56
3:EB:143:GLY:O	3:EB:147:SER:OG	2.17	0.56
3:ED:389:LYS:HB3	3:ED:429:VAL:HG21	1.87	0.56
3:FD:278:ARG:HH22	7:FD:502:TA1:H232	1.70	0.56
3:FF:274:PRO:HA	3:FF:294:GLN:HE22	1.69	0.56
3:FF:278:ARG:HH22	7:FF:502:TA1:H232	1.70	0.56
2:GA:313:MET:HG3	2:GA:344:VAL:HG21	1.86	0.56
3:GB:389:LYS:HB3	3:GB:429:VAL:HG21	1.87	0.56
3:GD:136:GLN:OE1	3:GD:136:GLN:N	2.35	0.56
3:GD:389:LYS:HB3	3:GD:429:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:319:PHE:N	3:JB:354:ALA:O	2.37	0.56
3:JD:259:MET:HA	3:JD:314:THR:HG21	1.87	0.56
3:JF:278:ARG:HH22	7:JF:502:TA1:H232	1.70	0.56
3:KD:158:ARG:NH1	3:KD:199:ASP:OD2	2.31	0.56
2:KE:265:ILE:HG13	2:KE:432:TYR:CE1	2.40	0.56
2:LA:377:MET:HE3	2:LA:379:SER:HB2	1.87	0.56
3:LD:259:MET:HA	3:LD:314:THR:HG21	1.87	0.56
3:MB:278:ARG:HH22	7:MB:502:TA1:H232	1.70	0.56
2:NA:313:MET:HG3	2:NA:344:VAL:HG21	1.86	0.56
3:AF:210:TYR:HA	3:AF:213:CYS:SG	2.45	0.56
2:BC:221:ARG:HE	3:BD:324:SER:HB3	1.70	0.56
2:BC:400:ALA:CB	3:BD:346:TRP:HH2	2.16	0.56
2:CE:377:MET:HE3	2:CE:379:SER:HB2	1.87	0.56
3:DD:189:LEU:O	3:DD:193:GLN:NE2	2.36	0.56
3:EB:389:LYS:HB3	3:EB:429:VAL:HG21	1.87	0.56
3:ED:278:ARG:HH22	7:ED:502:TA1:H232	1.70	0.56
3:EF:210:TYR:HA	3:EF:213:CYS:SG	2.45	0.56
3:EF:278:ARG:HH22	7:EF:502:TA1:H232	1.70	0.56
2:FE:221:ARG:NE	3:FF:324:SER:HB3	2.20	0.56
2:GC:313:MET:HG3	2:GC:344:VAL:HG21	1.86	0.56
2:GE:313:MET:HG3	2:GE:344:VAL:HG21	1.86	0.56
2:HE:168:GLU:O	2:HE:202:PHE:N	2.31	0.56
3:IB:4:ILE:HG13	3:IB:136:GLN:OE1	2.04	0.56
3:IB:210:TYR:HA	3:IB:213:CYS:SG	2.45	0.56
3:ID:278:ARG:HH22	7:ID:502:TA1:H232	1.70	0.56
2:JA:315:CYS:SG	2:JA:377:MET:HE1	2.44	0.56
3:JD:278:ARG:HH22	7:JD:502:TA1:H232	1.70	0.56
3:JD:319:PHE:N	3:JD:354:ALA:O	2.37	0.56
3:JF:259:MET:HA	3:JF:314:THR:HG21	1.87	0.56
2:KA:265:ILE:HG13	2:KA:432:TYR:CE1	2.40	0.56
2:LA:224:TYR:HE1	3:LB:325:MET:HG3	1.70	0.56
3:LF:259:MET:HA	3:LF:314:THR:HG21	1.87	0.56
2:NA:377:MET:HE3	2:NA:379:SER:HB2	1.87	0.56
3:NF:278:ARG:HH22	7:NF:502:TA1:H232	1.70	0.56
1:1E:62:ASN:HB2	1:1E:78:HIS:CE1	2.39	0.56
2:AA:265:ILE:HG13	2:AA:432:TYR:CE1	2.40	0.56
3:AB:210:TYR:HA	3:AB:213:CYS:SG	2.45	0.56
3:AB:385:GLN:HB2	3:AB:429:VAL:HG23	1.88	0.56
2:AC:377:MET:HE3	2:AC:379:SER:HB2	1.86	0.56
3:AD:210:TYR:HA	3:AD:213:CYS:SG	2.45	0.56
2:AE:265:ILE:HG13	2:AE:432:TYR:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BA:377:MET:HE3	2:BA:379:SER:HB2	1.86	0.56
3:BB:401:ARG:NH2	2:BC:345:ASP:OD2	2.38	0.56
2:BC:377:MET:HE3	2:BC:379:SER:HB2	1.87	0.56
3:BD:319:PHE:N	3:BD:354:ALA:O	2.37	0.56
2:BE:265:ILE:HG13	2:BE:432:TYR:CE1	2.40	0.56
2:BE:377:MET:HE3	2:BE:379:SER:HB2	1.87	0.56
3:BF:66:ILE:HA	3:BF:91:ASN:HB3	1.87	0.56
2:CA:168:GLU:O	2:CA:202:PHE:N	2.31	0.56
2:DA:100:ALA:O	3:DB:257:VAL:HG11	2.05	0.56
2:DA:233:GLN:OE1	2:DA:233:GLN:N	2.39	0.56
2:DA:315:CYS:SG	2:DA:377:MET:HE1	2.44	0.56
2:DE:168:GLU:O	2:DE:202:PHE:N	2.31	0.56
2:DE:315:CYS:SG	2:DE:377:MET:HE1	2.44	0.56
2:DE:377:MET:HE3	2:DE:379:SER:HB2	1.87	0.56
3:DF:189:LEU:O	3:DF:193:GLN:NE2	2.36	0.56
2:EA:233:GLN:N	2:EA:233:GLN:OE1	2.39	0.56
3:EB:158:ARG:NH1	3:EB:199:ASP:OD2	2.31	0.56
3:EB:278:ARG:HH22	7:EB:502:TA1:H232	1.70	0.56
2:EC:315:CYS:SG	2:EC:377:MET:HE1	2.44	0.56
3:ED:158:ARG:NH1	3:ED:199:ASP:OD2	2.31	0.56
3:FF:330:GLU:O	3:FF:334:ASN:ND2	2.21	0.56
2:GE:221:ARG:NE	3:GF:324:SER:HB3	2.20	0.56
2:HC:377:MET:HE3	2:HC:379:SER:HB2	1.87	0.56
3:IB:278:ARG:HH22	7:IB:502:TA1:H232	1.70	0.56
3:IB:389:LYS:HB3	3:IB:429:VAL:HG21	1.87	0.56
3:ID:4:ILE:HG13	3:ID:136:GLN:OE1	2.04	0.56
3:ID:210:TYR:HA	3:ID:213:CYS:SG	2.45	0.56
2:IE:221:ARG:CZ	3:IF:327:GLU:OE2	2.52	0.56
3:IF:4:ILE:HG13	3:IF:136:GLN:OE1	2.04	0.56
3:IF:278:ARG:HH22	7:IF:502:TA1:H232	1.70	0.56
2:JA:313:MET:HG3	2:JA:344:VAL:HG21	1.86	0.56
3:JB:185:TYR:OH	3:JB:398:MET:O	2.17	0.56
3:JB:278:ARG:HH22	7:JB:502:TA1:H232	1.70	0.56
2:JC:313:MET:HG3	2:JC:344:VAL:HG21	1.86	0.56
2:JC:315:CYS:SG	2:JC:377:MET:HE1	2.44	0.56
2:JE:190:THR:O	2:JE:193:THR:OG1	2.22	0.56
2:JE:313:MET:HG3	2:JE:344:VAL:HG21	1.86	0.56
2:JE:315:CYS:SG	2:JE:377:MET:HE1	2.44	0.56
3:JF:319:PHE:N	3:JF:354:ALA:O	2.37	0.56
3:KD:259:MET:HA	3:KD:314:THR:HG21	1.87	0.56
3:KF:158:ARG:NH1	3:KF:199:ASP:OD2	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:259:MET:HA	3:KF:314:THR:HG21	1.87	0.56
2:LE:313:MET:HG3	2:LE:344:VAL:HG21	1.86	0.56
2:MA:224:TYR:CE1	3:MB:325:MET:HG3	2.40	0.56
2:MA:313:MET:HG3	2:MA:344:VAL:HG21	1.86	0.56
3:MB:210:TYR:HA	3:MB:213:CYS:SG	2.45	0.56
2:MC:313:MET:HG3	2:MC:344:VAL:HG21	1.86	0.56
3:MD:330:GLU:O	3:MD:334:ASN:ND2	2.21	0.56
3:NB:259:MET:HA	3:NB:314:THR:HG21	1.87	0.56
3:ND:210:TYR:HA	3:ND:213:CYS:SG	2.45	0.56
3:NF:210:TYR:HA	3:NF:213:CYS:SG	2.45	0.56
1:1A:82:LYS:HA	1:1A:85:LYS:NZ	2.20	0.56
3:AB:66:ILE:HA	3:AB:91:ASN:HB3	1.87	0.56
3:AD:385:GLN:HB2	3:AD:429:VAL:HG23	1.88	0.56
2:AE:377:MET:HE3	2:AE:379:SER:HB2	1.87	0.56
3:BB:66:ILE:HA	3:BB:91:ASN:HB3	1.87	0.56
3:BF:210:TYR:HA	3:BF:213:CYS:SG	2.45	0.56
3:BF:319:PHE:N	3:BF:354:ALA:O	2.37	0.56
2:CA:190:THR:O	2:CA:193:THR:OG1	2.22	0.56
3:CB:212:ILE:O	3:CB:216:THR:OG1	2.23	0.56
2:CC:377:MET:HE3	2:CC:379:SER:HB2	1.87	0.56
3:CD:212:ILE:O	3:CD:216:THR:OG1	2.23	0.56
2:DC:168:GLU:O	2:DC:202:PHE:N	2.31	0.56
2:DC:233:GLN:OE1	2:DC:233:GLN:N	2.39	0.56
2:DC:315:CYS:SG	2:DC:377:MET:HE1	2.44	0.56
2:DC:377:MET:HE3	2:DC:379:SER:HB2	1.87	0.56
2:DE:233:GLN:N	2:DE:233:GLN:OE1	2.39	0.56
4:EA:501:GTP:O3G	3:EB:254:LYS:NZ	2.39	0.56
2:EE:233:GLN:OE1	2:EE:233:GLN:N	2.39	0.56
4:FA:501:GTP:O3G	3:FB:254:LYS:NZ	2.38	0.56
2:HA:377:MET:HE3	2:HA:379:SER:HB2	1.87	0.56
2:HE:313:MET:HG3	2:HE:344:VAL:HG21	1.86	0.56
2:HE:377:MET:HE3	2:HE:379:SER:HB2	1.87	0.56
2:IA:315:CYS:SG	2:IA:377:MET:HE1	2.44	0.56
3:IB:259:MET:HA	3:IB:314:THR:HG21	1.87	0.56
2:IC:315:CYS:SG	2:IC:377:MET:HE1	2.44	0.56
3:ID:389:LYS:HB3	3:ID:429:VAL:HG21	1.87	0.56
2:IE:315:CYS:SG	2:IE:377:MET:HE1	2.44	0.56
2:KA:397:LEU:HD12	3:KB:346:TRP:CZ3	2.40	0.56
3:KB:259:MET:HA	3:KB:314:THR:HG21	1.87	0.56
2:LA:313:MET:HG3	2:LA:344:VAL:HG21	1.86	0.56
2:LC:313:MET:HG3	2:LC:344:VAL:HG21	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MB:259:MET:HA	3:MB:314:THR:HG21	1.87	0.56
3:MD:259:MET:HA	3:MD:314:THR:HG21	1.87	0.56
2:ME:313:MET:HG3	2:ME:344:VAL:HG21	1.86	0.56
3:NB:278:ARG:HH22	7:NB:502:TA1:H232	1.71	0.56
3:ND:189:LEU:O	3:ND:193:GLN:NE2	2.36	0.56
3:ND:259:MET:HA	3:ND:314:THR:HG21	1.87	0.56
1:1E:29:LEU:HD21	1:1E:49:VAL:HA	1.88	0.56
3:AB:136:GLN:OE1	3:AB:136:GLN:N	2.35	0.56
3:AB:212:ILE:O	3:AB:216:THR:OG1	2.23	0.56
2:AC:105:ARG:HH12	3:AD:253:ARG:CD	2.18	0.56
3:AF:385:GLN:HB2	3:AF:429:VAL:HG23	1.88	0.56
3:BD:210:TYR:HA	3:BD:213:CYS:SG	2.45	0.56
3:BF:60:LYS:CE	3:CF:283:TYR:HA	2.35	0.56
3:BF:385:GLN:HB2	3:BF:429:VAL:HG23	1.88	0.56
2:CA:377:MET:HE3	2:CA:379:SER:HB2	1.87	0.56
3:CD:389:LYS:HB3	3:CD:429:VAL:HG21	1.87	0.56
3:CF:212:ILE:O	3:CF:216:THR:OG1	2.23	0.56
3:EB:212:ILE:O	3:EB:216:THR:OG1	2.23	0.56
2:EC:233:GLN:OE1	2:EC:233:GLN:N	2.39	0.56
2:EC:377:MET:HE3	2:EC:379:SER:HB2	1.87	0.56
3:ED:212:ILE:O	3:ED:216:THR:OG1	2.24	0.56
2:FA:400:ALA:HB3	3:FB:346:TRP:HH2	1.70	0.56
3:FF:88:ARG:HH12	3:GF:283:TYR:CB	2.16	0.56
2:GC:377:MET:HE3	2:GC:379:SER:HB2	1.86	0.56
2:HC:313:MET:HG3	2:HC:344:VAL:HG21	1.86	0.56
2:IE:233:GLN:OE1	2:IE:233:GLN:N	2.39	0.56
3:IF:259:MET:HA	3:IF:314:THR:HG21	1.87	0.56
2:LC:265:ILE:HG13	2:LC:432:TYR:CE1	2.40	0.56
3:MF:259:MET:HA	3:MF:314:THR:HG21	1.87	0.56
3:NB:210:TYR:HA	3:NB:213:CYS:SG	2.45	0.56
3:ND:385:GLN:HB2	3:ND:429:VAL:HG23	1.88	0.56
3:NF:259:MET:HA	3:NF:314:THR:HG21	1.87	0.56
3:NF:385:GLN:HB2	3:NF:429:VAL:HG23	1.88	0.56
1:1B:82:LYS:HA	1:1B:85:LYS:NZ	2.20	0.56
2:AA:377:MET:HE3	2:AA:379:SER:HB2	1.87	0.56
3:AD:66:ILE:HA	3:AD:91:ASN:HB3	1.87	0.56
3:AD:212:ILE:O	3:AD:216:THR:OG1	2.23	0.56
3:AF:66:ILE:HA	3:AF:91:ASN:HB3	1.88	0.56
3:AF:212:ILE:O	3:AF:216:THR:OG1	2.24	0.56
3:BD:66:ILE:HA	3:BD:91:ASN:HB3	1.88	0.56
2:CA:233:GLN:OE1	2:CA:233:GLN:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:168:GLU:O	2:CC:202:PHE:N	2.31	0.56
2:CC:190:THR:O	2:CC:193:THR:OG1	2.22	0.56
2:CE:168:GLU:O	2:CE:202:PHE:N	2.31	0.56
2:CE:233:GLN:OE1	2:CE:233:GLN:N	2.39	0.56
3:CF:66:ILE:HA	3:CF:91:ASN:HB3	1.87	0.56
3:CF:189:LEU:O	3:CF:193:GLN:NE2	2.36	0.56
3:CF:389:LYS:HB3	3:CF:429:VAL:HG21	1.87	0.56
2:DA:168:GLU:O	2:DA:202:PHE:N	2.31	0.56
2:DA:377:MET:HE3	2:DA:379:SER:HB2	1.87	0.56
3:EB:60:LYS:HE3	3:FB:282:GLN:NE2	2.20	0.56
3:EF:212:ILE:O	3:EF:216:THR:OG1	2.23	0.56
2:FA:233:GLN:OE1	2:FA:233:GLN:N	2.39	0.56
3:FB:221:THR:HA	2:FC:326:LYS:NZ	2.20	0.56
3:FB:389:LYS:HB3	3:FB:429:VAL:HG21	1.87	0.56
2:FC:233:GLN:N	2:FC:233:GLN:OE1	2.39	0.56
3:GB:319:PHE:N	3:GB:354:ALA:O	2.37	0.56
2:GC:187:SER:O	2:GC:190:THR:OG1	2.23	0.56
3:GD:319:PHE:N	3:GD:354:ALA:O	2.37	0.56
3:HB:259:MET:HA	3:HB:314:THR:HG21	1.87	0.56
3:HF:259:MET:HA	3:HF:314:THR:HG21	1.87	0.56
2:IA:233:GLN:OE1	2:IA:233:GLN:N	2.39	0.56
3:IF:389:LYS:HB3	3:IF:429:VAL:HG21	1.87	0.56
2:JA:190:THR:O	2:JA:193:THR:OG1	2.22	0.56
2:JE:224:TYR:HE1	3:JF:325:MET:HG3	1.67	0.56
2:KC:401:LYS:HZ2	3:KD:346:TRP:NE1	2.03	0.56
2:LA:265:ILE:HG13	2:LA:432:TYR:CE1	2.40	0.56
3:LB:385:GLN:HB2	3:LB:429:VAL:HG23	1.88	0.56
2:LC:222:PRO:O	3:LD:326:LYS:NZ	2.38	0.56
3:LD:330:GLU:O	3:LD:334:ASN:ND2	2.21	0.56
2:LE:265:ILE:HG13	2:LE:432:TYR:CE1	2.40	0.56
3:LF:385:GLN:HB2	3:LF:429:VAL:HG23	1.88	0.56
3:MD:210:TYR:HA	3:MD:213:CYS:SG	2.45	0.56
3:NB:385:GLN:HB2	3:NB:429:VAL:HG23	1.88	0.56
1:1B:58:VAL:HG13	1:1B:60:MET:HE3	1.88	0.56
1:1C:108:GLU:OE1	1:1C:108:GLU:N	2.33	0.56
2:AC:265:ILE:HG13	2:AC:432:TYR:CE1	2.40	0.56
2:BA:89:PRO:HD2	2:CA:280:LYS:NZ	2.21	0.56
3:BB:189:LEU:O	3:BB:193:GLN:NE2	2.36	0.56
3:BB:210:TYR:HA	3:BB:213:CYS:SG	2.45	0.56
3:BD:189:LEU:O	3:BD:193:GLN:NE2	2.36	0.56
3:CB:66:ILE:HA	3:CB:91:ASN:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:189:LEU:O	3:CB:193:GLN:NE2	2.36	0.56
3:CB:223:THR:N	3:CB:226:ASP:OD2	2.39	0.56
2:CC:233:GLN:OE1	2:CC:233:GLN:N	2.39	0.56
3:CD:66:ILE:HA	3:CD:91:ASN:HB3	1.88	0.56
3:CD:223:THR:N	3:CD:226:ASP:OD2	2.39	0.56
2:CE:190:THR:O	2:CE:193:THR:OG1	2.22	0.56
3:CF:223:THR:N	3:CF:226:ASP:OD2	2.39	0.56
3:DF:210:TYR:HA	3:DF:213:CYS:SG	2.45	0.56
2:EE:394:LYS:HD2	3:EF:348:PRO:HG3	1.87	0.56
3:FD:389:LYS:HB3	3:FD:429:VAL:HG21	1.87	0.56
2:FE:233:GLN:OE1	2:FE:233:GLN:N	2.39	0.56
2:HA:313:MET:HG3	2:HA:344:VAL:HG21	1.86	0.56
3:HB:389:LYS:HB3	3:HB:429:VAL:HG21	1.87	0.56
3:HD:259:MET:HA	3:HD:314:THR:HG21	1.87	0.56
2:IC:233:GLN:N	2:IC:233:GLN:OE1	2.39	0.56
3:ID:259:MET:HA	3:ID:314:THR:HG21	1.87	0.56
3:IF:210:TYR:HA	3:IF:213:CYS:SG	2.45	0.56
3:JB:385:GLN:HB2	3:JB:429:VAL:HG23	1.88	0.56
3:JD:385:GLN:HB2	3:JD:429:VAL:HG23	1.88	0.56
3:KB:385:GLN:HB2	3:KB:429:VAL:HG23	1.88	0.56
2:KC:187:SER:O	2:KC:190:THR:OG1	2.23	0.56
3:LB:210:TYR:HA	3:LB:213:CYS:SG	2.45	0.56
3:LB:278:ARG:HH22	7:LB:502:TA1:H232	1.70	0.56
3:LD:210:TYR:HA	3:LD:213:CYS:SG	2.45	0.56
3:LD:278:ARG:HH22	7:LD:502:TA1:H232	1.70	0.56
3:LD:385:GLN:HB2	3:LD:429:VAL:HG23	1.88	0.56
3:LF:210:TYR:HA	3:LF:213:CYS:SG	2.45	0.56
3:MB:60:LYS:HE3	3:NB:283:TYR:CD2	2.41	0.56
2:MC:265:ILE:HG13	2:MC:432:TYR:CE1	2.40	0.56
3:MD:69:ASP:OD2	3:MD:74:THR:OG1	2.18	0.56
3:MF:210:TYR:HA	3:MF:213:CYS:SG	2.45	0.56
3:MF:319:PHE:N	3:MF:354:ALA:O	2.37	0.56
3:NF:189:LEU:O	3:NF:193:GLN:NE2	2.36	0.56
1:1C:58:VAL:HG13	1:1C:60:MET:HE3	1.88	0.56
3:AD:189:LEU:O	3:AD:193:GLN:NE2	2.36	0.56
3:BB:69:ASP:OD2	3:BB:74:THR:OG1	2.18	0.56
3:BB:385:GLN:HB2	3:BB:429:VAL:HG23	1.88	0.56
3:BD:385:GLN:HB2	3:BD:429:VAL:HG23	1.88	0.56
3:CB:210:TYR:HA	3:CB:213:CYS:SG	2.45	0.56
3:CB:347:ILE:HG23	3:CB:350:ASN:ND2	2.21	0.56
3:CB:389:LYS:HB3	3:CB:429:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:189:LEU:O	3:CD:193:GLN:NE2	2.36	0.56
3:CD:276:THR:OG1	7:CD:502:TA1:O07	2.14	0.56
3:CD:347:ILE:HG23	3:CD:350:ASN:ND2	2.21	0.56
3:CF:347:ILE:HG23	3:CF:350:ASN:ND2	2.21	0.56
3:DB:347:ILE:HG23	3:DB:350:ASN:ND2	2.21	0.56
3:DD:66:ILE:HA	3:DD:91:ASN:HB3	1.88	0.56
3:DD:223:THR:N	3:DD:226:ASP:OD2	2.39	0.56
3:DF:347:ILE:HG23	3:DF:350:ASN:ND2	2.21	0.56
3:EB:210:TYR:HA	3:EB:213:CYS:SG	2.45	0.56
3:ED:210:TYR:HA	3:ED:213:CYS:SG	2.45	0.56
2:EE:377:MET:HE3	2:EE:379:SER:HB2	1.87	0.56
2:FC:100:ALA:HA	3:FD:254:LYS:HD3	1.87	0.56
3:GB:212:ILE:O	3:GB:216:THR:OG1	2.24	0.56
3:GD:347:ILE:HG23	3:GD:350:ASN:ND2	2.21	0.56
2:GE:187:SER:O	2:GE:190:THR:OG1	2.23	0.56
2:GE:377:MET:HE3	2:GE:379:SER:HB2	1.87	0.56
3:GF:136:GLN:OE1	3:GF:136:GLN:N	2.35	0.56
3:HB:278:ARG:HH22	7:HB:502:TA1:H232	1.70	0.56
3:IB:330:GLU:O	3:IB:334:ASN:ND2	2.21	0.56
3:KB:101:ASN:ND2	2:KC:254:GLU:OE2	2.38	0.56
3:KB:278:ARG:HH22	7:KB:502:TA1:H232	1.70	0.56
2:KC:98:ASP:CG	3:KD:254:LYS:HE2	2.30	0.56
3:KD:401:ARG:NH2	2:KE:345:ASP:CG	2.61	0.56
2:KE:187:SER:O	2:KE:190:THR:OG1	2.23	0.56
3:MB:223:THR:N	3:MB:226:ASP:OD2	2.39	0.56
3:MB:385:GLN:HB2	3:MB:429:VAL:HG23	1.88	0.56
2:ME:265:ILE:HG13	2:ME:432:TYR:CE1	2.40	0.56
2:NA:265:ILE:HG13	2:NA:432:TYR:CE1	2.40	0.56
1:1A:58:VAL:HG13	1:1A:60:MET:HE3	1.88	0.56
3:AB:189:LEU:O	3:AB:193:GLN:NE2	2.36	0.56
2:AC:168:GLU:O	2:AC:202:PHE:N	2.31	0.56
2:AC:187:SER:O	2:AC:190:THR:OG1	2.23	0.56
2:AE:280:LYS:HZ3	3:NB:89:PRO:HB2	1.70	0.56
3:CD:210:TYR:HA	3:CD:213:CYS:SG	2.45	0.56
3:CF:210:TYR:HA	3:CF:213:CYS:SG	2.45	0.56
3:CF:276:THR:OG1	7:CF:502:TA1:O07	2.14	0.56
3:DB:66:ILE:HA	3:DB:91:ASN:HB3	1.88	0.56
3:DB:389:LYS:HB3	3:DB:429:VAL:HG21	1.87	0.56
3:DD:347:ILE:HG23	3:DD:350:ASN:ND2	2.21	0.56
3:DD:389:LYS:HB3	3:DD:429:VAL:HG21	1.87	0.56
3:EB:93:VAL:HG11	3:EB:118:VAL:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:389:LYS:HB3	3:FF:429:VAL:HG21	1.87	0.56
2:GA:187:SER:O	2:GA:190:THR:OG1	2.23	0.56
2:GA:377:MET:HE3	2:GA:379:SER:HB2	1.87	0.56
3:GD:212:ILE:O	3:GD:216:THR:OG1	2.24	0.56
3:GF:93:VAL:HG11	3:GF:118:VAL:HG12	1.88	0.56
3:GF:278:ARG:HH22	7:GF:502:TA1:H232	1.70	0.56
3:GF:319:PHE:N	3:GF:354:ALA:O	2.37	0.56
2:HA:107:HIS:HD1	2:HA:151:SER:HG	1.54	0.56
3:HD:93:VAL:HG11	3:HD:118:VAL:HG12	1.88	0.56
3:HD:278:ARG:HH22	7:HD:502:TA1:H232	1.70	0.56
2:HE:233:GLN:OE1	2:HE:233:GLN:N	2.39	0.56
3:HF:320:ARG:HG2	3:HF:359:PRO:HA	1.88	0.56
3:ID:93:VAL:HG11	3:ID:118:VAL:HG12	1.88	0.56
3:JB:66:ILE:HA	3:JB:91:ASN:HB3	1.87	0.56
2:JC:105:ARG:HH12	3:JD:253:ARG:CD	2.17	0.56
3:JF:385:GLN:HB2	3:JF:429:VAL:HG23	1.88	0.56
2:KA:187:SER:O	2:KA:190:THR:OG1	2.23	0.56
3:KD:181:VAL:HG13	2:KE:349:THR:HG23	1.88	0.56
3:KD:278:ARG:HH22	7:KD:502:TA1:H232	1.70	0.56
3:KD:385:GLN:HB2	3:KD:429:VAL:HG23	1.88	0.56
3:LF:278:ARG:HH22	7:LF:502:TA1:H232	1.71	0.56
2:MA:265:ILE:HG13	2:MA:432:TYR:CE1	2.40	0.56
3:MD:319:PHE:N	3:MD:354:ALA:O	2.37	0.56
3:MD:385:GLN:HB2	3:MD:429:VAL:HG23	1.88	0.56
2:ME:56:THR:HA	2:NE:285:GLN:HB2	1.88	0.56
3:MF:223:THR:N	3:MF:226:ASP:OD2	2.39	0.56
3:MF:385:GLN:HB2	3:MF:429:VAL:HG23	1.88	0.56
2:NC:265:ILE:HG13	2:NC:432:TYR:CE1	2.40	0.56
2:NE:50:ASN:O	2:NE:64:ARG:NH2	2.39	0.56
1:1E:82:LYS:HA	1:1E:85:LYS:NZ	2.20	0.56
2:AC:50:ASN:O	2:AC:64:ARG:NH2	2.39	0.56
3:AD:259:MET:HA	3:AD:314:THR:HG21	1.87	0.56
3:AF:136:GLN:OE1	3:AF:136:GLN:N	2.35	0.56
3:AF:259:MET:HA	3:AF:314:THR:HG21	1.87	0.56
3:BF:347:ILE:HG23	3:BF:350:ASN:ND2	2.21	0.56
3:DB:93:VAL:HG11	3:DB:118:VAL:HG12	1.88	0.56
3:DB:223:THR:N	3:DB:226:ASP:OD2	2.39	0.56
3:DF:66:ILE:HA	3:DF:91:ASN:HB3	1.88	0.56
3:DF:223:THR:N	3:DF:226:ASP:OD2	2.39	0.56
3:ED:347:ILE:HG23	3:ED:350:ASN:ND2	2.21	0.56
3:EF:66:ILE:HA	3:EF:91:ASN:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:377:MET:HE3	2:FE:379:SER:HB2	1.87	0.56
2:FE:394:LYS:HZ3	2:FE:397:LEU:HD23	1.71	0.56
3:FF:93:VAL:HG11	3:FF:118:VAL:HG12	1.88	0.56
3:GB:278:ARG:HH22	7:GB:502:TA1:H232	1.70	0.56
3:GB:347:ILE:HG23	3:GB:350:ASN:ND2	2.21	0.56
3:GD:93:VAL:HG11	3:GD:118:VAL:HG12	1.88	0.56
3:GF:212:ILE:O	3:GF:216:THR:OG1	2.24	0.56
3:GF:347:ILE:HG23	3:GF:350:ASN:ND2	2.21	0.56
2:HA:187:SER:O	2:HA:190:THR:OG1	2.23	0.56
3:HB:66:ILE:HA	3:HB:91:ASN:HB3	1.87	0.56
3:HB:69:ASP:OD2	3:HB:74:THR:OG1	2.18	0.56
3:HB:93:VAL:HG11	3:HB:118:VAL:HG12	1.88	0.56
3:HB:189:LEU:O	3:HB:193:GLN:NE2	2.36	0.56
3:HB:347:ILE:HG23	3:HB:350:ASN:ND2	2.21	0.56
2:HC:233:GLN:OE1	2:HC:233:GLN:N	2.39	0.56
2:HE:187:SER:O	2:HE:190:THR:OG1	2.23	0.56
3:HF:278:ARG:HH22	7:HF:502:TA1:H232	1.70	0.56
3:HF:389:LYS:HB3	3:HF:429:VAL:HG21	1.87	0.56
3:IB:93:VAL:HG11	3:IB:118:VAL:HG12	1.88	0.56
3:ID:330:GLU:O	3:ID:334:ASN:ND2	2.21	0.56
2:IE:404:PHE:CE2	3:IF:261:PRO:HA	2.41	0.56
3:IF:93:VAL:HG11	3:IF:118:VAL:HG12	1.88	0.56
2:JA:233:GLN:OE1	2:JA:233:GLN:N	2.39	0.56
2:JC:233:GLN:OE1	2:JC:233:GLN:N	2.39	0.56
3:JD:185:TYR:OH	3:JD:398:MET:O	2.17	0.56
3:JD:347:ILE:HG23	3:JD:350:ASN:ND2	2.21	0.56
3:JF:347:ILE:HG23	3:JF:350:ASN:ND2	2.21	0.56
3:KF:385:GLN:HB2	3:KF:429:VAL:HG23	1.88	0.56
2:LE:89:PRO:HD2	2:ME:280:LYS:NZ	2.21	0.56
3:MB:389:LYS:HB3	3:MB:429:VAL:HG21	1.87	0.56
3:MD:223:THR:N	3:MD:226:ASP:OD2	2.39	0.56
3:MF:330:GLU:O	3:MF:334:ASN:ND2	2.21	0.56
2:NA:50:ASN:O	2:NA:64:ARG:NH2	2.39	0.56
2:NC:50:ASN:O	2:NC:64:ARG:NH2	2.39	0.56
2:NE:265:ILE:HG13	2:NE:432:TYR:CE1	2.40	0.56
3:NF:389:LYS:HB3	3:NF:429:VAL:HG21	1.87	0.56
1:1A:29:LEU:HD21	1:1A:49:VAL:HA	1.88	0.55
2:AA:187:SER:O	2:AA:190:THR:OG1	2.23	0.55
3:AB:259:MET:HA	3:AB:314:THR:HG21	1.87	0.55
3:AB:389:LYS:HB3	3:AB:429:VAL:HG21	1.87	0.55
2:AE:400:ALA:CB	3:AF:346:TRP:HH2	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:69:ASP:OD2	3:BD:74:THR:OG1	2.18	0.55
3:BD:347:ILE:HG23	3:BD:350:ASN:ND2	2.21	0.55
2:BE:190:THR:O	2:BE:193:THR:OG1	2.22	0.55
3:BF:189:LEU:O	3:BF:193:GLN:NE2	2.36	0.55
3:BF:223:THR:N	3:BF:226:ASP:OD2	2.39	0.55
3:CB:93:VAL:HG11	3:CB:118:VAL:HG12	1.88	0.55
3:DD:93:VAL:HG11	3:DD:118:VAL:HG12	1.88	0.55
3:DD:210:TYR:HA	3:DD:213:CYS:SG	2.45	0.55
3:DF:93:VAL:HG11	3:DF:118:VAL:HG12	1.88	0.55
2:EA:377:MET:HE3	2:EA:379:SER:HB2	1.87	0.55
3:EB:347:ILE:HG23	3:EB:350:ASN:ND2	2.21	0.55
3:ED:66:ILE:HA	3:ED:91:ASN:HB3	1.88	0.55
3:ED:93:VAL:HG11	3:ED:118:VAL:HG12	1.88	0.55
3:EF:93:VAL:HG11	3:EF:118:VAL:HG12	1.88	0.55
3:EF:347:ILE:HG23	3:EF:350:ASN:ND2	2.21	0.55
3:FD:93:VAL:HG11	3:FD:118:VAL:HG12	1.88	0.55
3:FF:320:ARG:HG2	3:FF:359:PRO:HA	1.88	0.55
3:GD:278:ARG:HH22	7:GD:502:TA1:H232	1.70	0.55
3:GF:320:ARG:HG2	3:GF:359:PRO:HA	1.88	0.55
2:HA:233:GLN:N	2:HA:233:GLN:OE1	2.39	0.55
2:HC:187:SER:O	2:HC:190:THR:OG1	2.23	0.55
3:HD:389:LYS:HB3	3:HD:429:VAL:HG21	1.87	0.55
3:HF:93:VAL:HG11	3:HF:118:VAL:HG12	1.88	0.55
3:IB:66:ILE:HA	3:IB:91:ASN:HB3	1.88	0.55
3:JB:93:VAL:HG11	3:JB:118:VAL:HG12	1.88	0.55
3:JB:347:ILE:HG23	3:JB:350:ASN:ND2	2.21	0.55
3:JD:66:ILE:HA	3:JD:91:ASN:HB3	1.87	0.55
3:JD:93:VAL:HG11	3:JD:118:VAL:HG12	1.88	0.55
3:JF:210:TYR:HA	3:JF:213:CYS:SG	2.45	0.55
3:KB:93:VAL:HG11	3:KB:118:VAL:HG12	1.88	0.55
3:KF:278:ARG:HH22	7:KF:502:TA1:H232	1.70	0.55
3:LF:223:THR:N	3:LF:226:ASP:OD2	2.39	0.55
2:MA:233:GLN:OE1	2:MA:233:GLN:N	2.39	0.55
3:MD:93:VAL:HG11	3:MD:118:VAL:HG12	1.88	0.55
3:MF:93:VAL:HG11	3:MF:118:VAL:HG12	1.88	0.55
3:MF:347:ILE:HG23	3:MF:350:ASN:ND2	2.21	0.55
3:NB:223:THR:N	3:NB:226:ASP:OD2	2.39	0.55
3:ND:223:THR:N	3:ND:226:ASP:OD2	2.39	0.55
3:ND:389:LYS:HB3	3:ND:429:VAL:HG21	1.87	0.55
2:NE:233:GLN:OE1	2:NE:233:GLN:N	2.39	0.55
1:1B:23:TRP:O	1:1B:27:ILE:HD12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:62:ASN:HB2	1:1B:78:HIS:CE1	2.39	0.55
1:1D:58:VAL:HG13	1:1D:60:MET:HE3	1.88	0.55
2:AA:50:ASN:O	2:AA:64:ARG:NH2	2.39	0.55
3:AD:136:GLN:OE1	3:AD:136:GLN:N	2.35	0.55
3:AD:389:LYS:HB3	3:AD:429:VAL:HG21	1.87	0.55
2:AE:50:ASN:O	2:AE:64:ARG:NH2	2.39	0.55
2:BC:190:THR:O	2:BC:193:THR:OG1	2.22	0.55
3:BD:93:VAL:HG11	3:BD:118:VAL:HG12	1.88	0.55
3:BD:223:THR:N	3:BD:226:ASP:OD2	2.39	0.55
3:CB:385:GLN:HB2	3:CB:429:VAL:HG23	1.88	0.55
3:CD:93:VAL:HG11	3:CD:118:VAL:HG12	1.88	0.55
3:CF:93:VAL:HG11	3:CF:118:VAL:HG12	1.88	0.55
3:DB:385:GLN:HB2	3:DB:429:VAL:HG23	1.88	0.55
3:DD:385:GLN:HB2	3:DD:429:VAL:HG23	1.88	0.55
2:EA:101:ASN:H	3:EB:254:LYS:HZ3	1.52	0.55
2:FA:100:ALA:HA	3:FB:254:LYS:HD3	1.88	0.55
3:FB:93:VAL:HG11	3:FB:118:VAL:HG12	1.88	0.55
3:FB:347:ILE:HG23	3:FB:350:ASN:ND2	2.21	0.55
2:GC:105:ARG:HH12	3:GD:253:ARG:HD2	1.71	0.55
3:GF:259:MET:HA	3:GF:314:THR:HG21	1.87	0.55
3:HB:320:ARG:HG2	3:HB:359:PRO:HA	1.88	0.55
3:HD:320:ARG:HG2	3:HD:359:PRO:HA	1.88	0.55
3:HD:347:ILE:HG23	3:HD:350:ASN:ND2	2.21	0.55
2:HE:221:ARG:HE	3:HF:324:SER:HB3	1.71	0.55
2:IA:50:ASN:O	2:IA:64:ARG:NH2	2.39	0.55
2:IA:214:ARG:HH12	2:IA:220:GLU:HG2	1.72	0.55
3:ID:320:ARG:HG2	3:ID:359:PRO:HA	1.88	0.55
2:IE:50:ASN:O	2:IE:64:ARG:NH2	2.39	0.55
2:IE:214:ARG:HH12	2:IE:220:GLU:HG2	1.72	0.55
3:JB:403:ALA:HB2	2:JC:346:TRP:CH2	2.41	0.55
2:JE:233:GLN:OE1	2:JE:233:GLN:N	2.39	0.55
2:KC:407:TRP:CH2	3:KD:260:VAL:O	2.60	0.55
3:LB:389:LYS:HB3	3:LB:429:VAL:HG21	1.87	0.55
2:LC:100:ALA:HA	3:LD:254:LYS:HD3	1.88	0.55
3:LD:223:THR:N	3:LD:226:ASP:OD2	2.39	0.55
3:LF:389:LYS:HB3	3:LF:429:VAL:HG21	1.87	0.55
3:MB:66:ILE:HA	3:MB:91:ASN:HB3	1.88	0.55
3:MB:319:PHE:N	3:MB:354:ALA:O	2.37	0.55
2:MC:100:ALA:O	3:MD:257:VAL:HG11	2.07	0.55
3:MD:389:LYS:HB3	3:MD:429:VAL:HG21	1.87	0.55
2:ME:50:ASN:O	2:ME:64:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:233:GLN:OE1	2:ME:233:GLN:N	2.39	0.55
2:NA:224:TYR:CE1	3:NB:325:MET:HG3	2.40	0.55
3:NB:93:VAL:HG11	3:NB:118:VAL:HG12	1.88	0.55
2:NE:105:ARG:HH12	3:NF:253:ARG:CD	2.15	0.55
3:NF:66:ILE:HA	3:NF:91:ASN:HB3	1.87	0.55
3:NF:223:THR:N	3:NF:226:ASP:OD2	2.39	0.55
1:1E:58:VAL:HG13	1:1E:60:MET:HE3	1.88	0.55
2:AA:168:GLU:O	2:AA:202:PHE:N	2.31	0.55
2:AC:100:ALA:O	3:AD:257:VAL:HG11	2.06	0.55
3:AF:189:LEU:O	3:AF:193:GLN:NE2	2.36	0.55
3:BB:93:VAL:HG11	3:BB:118:VAL:HG12	1.88	0.55
3:BB:223:THR:N	3:BB:226:ASP:OD2	2.39	0.55
3:BB:347:ILE:HG23	3:BB:350:ASN:ND2	2.21	0.55
3:BB:389:LYS:HB3	3:BB:429:VAL:HG21	1.87	0.55
2:BE:168:GLU:O	2:BE:202:PHE:N	2.31	0.55
3:CD:385:GLN:HB2	3:CD:429:VAL:HG23	1.88	0.55
3:DB:210:TYR:HA	3:DB:213:CYS:SG	2.45	0.55
3:DB:259:MET:HA	3:DB:314:THR:HG21	1.87	0.55
3:DD:259:MET:HA	3:DD:314:THR:HG21	1.87	0.55
3:DF:389:LYS:HB3	3:DF:429:VAL:HG21	1.87	0.55
3:EB:66:ILE:HA	3:EB:91:ASN:HB3	1.88	0.55
2:EC:190:THR:O	2:EC:193:THR:OG1	2.22	0.55
2:FA:377:MET:HE3	2:FA:379:SER:HB2	1.87	0.55
2:FC:377:MET:HE3	2:FC:379:SER:HB2	1.87	0.55
3:FD:320:ARG:HG2	3:FD:359:PRO:HA	1.88	0.55
3:FD:347:ILE:HG23	3:FD:350:ASN:ND2	2.21	0.55
3:FF:347:ILE:HG23	3:FF:350:ASN:ND2	2.21	0.55
2:GA:50:ASN:O	2:GA:64:ARG:NH2	2.39	0.55
3:GB:93:VAL:HG11	3:GB:118:VAL:HG12	1.88	0.55
3:GB:320:ARG:HG2	3:GB:359:PRO:HA	1.88	0.55
3:GD:259:MET:HA	3:GD:314:THR:HG21	1.87	0.55
3:GD:320:ARG:HG2	3:GD:359:PRO:HA	1.88	0.55
3:GD:401:ARG:HD2	2:GE:346:TRP:CZ2	2.42	0.55
2:GE:233:GLN:N	2:GE:233:GLN:OE1	2.39	0.55
2:HA:50:ASN:O	2:HA:64:ARG:NH2	2.39	0.55
3:HD:66:ILE:HA	3:HD:91:ASN:HB3	1.87	0.55
3:HD:69:ASP:OD2	3:HD:74:THR:OG1	2.18	0.55
2:HE:50:ASN:O	2:HE:64:ARG:NH2	2.39	0.55
2:HE:214:ARG:HH12	2:HE:220:GLU:HG2	1.72	0.55
3:HF:66:ILE:HA	3:HF:91:ASN:HB3	1.87	0.55
3:HF:347:ILE:HG23	3:HF:350:ASN:ND2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:320:ARG:HG2	3:IB:359:PRO:HA	1.88	0.55
3:IB:347:ILE:HG23	3:IB:350:ASN:ND2	2.21	0.55
2:IC:187:SER:O	2:IC:190:THR:OG1	2.23	0.55
2:IC:214:ARG:HH12	2:IC:220:GLU:HG2	1.72	0.55
4:IC:501:GTP:O1G	3:ID:254:LYS:NZ	2.40	0.55
3:ID:212:ILE:O	3:ID:216:THR:OG1	2.24	0.55
3:ID:347:ILE:HG23	3:ID:350:ASN:ND2	2.21	0.55
2:IE:187:SER:O	2:IE:190:THR:OG1	2.23	0.55
3:IF:212:ILE:O	3:IF:216:THR:OG1	2.23	0.55
3:JB:210:TYR:HA	3:JB:213:CYS:SG	2.45	0.55
2:JC:214:ARG:HH12	2:JC:220:GLU:HG2	1.72	0.55
2:JE:214:ARG:HH12	2:JE:220:GLU:HG2	1.72	0.55
3:JF:93:VAL:HG11	3:JF:118:VAL:HG12	1.88	0.55
3:KB:389:LYS:HB3	3:KB:429:VAL:HG21	1.87	0.55
3:KD:93:VAL:HG11	3:KD:118:VAL:HG12	1.88	0.55
3:KD:210:TYR:HA	3:KD:213:CYS:SG	2.45	0.55
3:KF:93:VAL:HG11	3:KF:118:VAL:HG12	1.88	0.55
3:LB:93:VAL:HG11	3:LB:118:VAL:HG12	1.88	0.55
3:LB:223:THR:N	3:LB:226:ASP:OD2	2.39	0.55
3:LD:93:VAL:HG11	3:LD:118:VAL:HG12	1.88	0.55
3:LD:389:LYS:HB3	3:LD:429:VAL:HG21	1.87	0.55
3:LF:93:VAL:HG11	3:LF:118:VAL:HG12	1.88	0.55
2:MA:50:ASN:O	2:MA:64:ARG:NH2	2.39	0.55
3:MB:69:ASP:OD2	3:MB:74:THR:OG1	2.18	0.55
2:MC:50:ASN:O	2:MC:64:ARG:NH2	2.39	0.55
3:NB:389:LYS:HB3	3:NB:429:VAL:HG21	1.87	0.55
3:ND:136:GLN:OE1	3:ND:136:GLN:N	2.35	0.55
2:NE:187:SER:O	2:NE:190:THR:OG1	2.23	0.55
1:1A:62:ASN:HB2	1:1A:78:HIS:CE1	2.39	0.55
1:1B:29:LEU:HD21	1:1B:49:VAL:HA	1.88	0.55
1:1C:23:TRP:HB3	1:1C:115:ARG:HH22	1.72	0.55
3:AF:389:LYS:HB3	3:AF:429:VAL:HG21	1.87	0.55
3:BB:136:GLN:OE1	3:BB:136:GLN:N	2.35	0.55
3:BD:259:MET:HA	3:BD:314:THR:HG21	1.87	0.55
3:CF:385:GLN:HB2	3:CF:429:VAL:HG23	1.88	0.55
3:DB:222:PRO:HD2	2:DC:326:LYS:HZ3	1.71	0.55
3:DF:385:GLN:HB2	3:DF:429:VAL:HG23	1.88	0.55
3:EB:136:GLN:OE1	3:EB:136:GLN:N	2.35	0.55
2:EC:168:GLU:O	2:EC:202:PHE:N	2.31	0.55
3:EF:259:MET:HA	3:EF:314:THR:HG21	1.87	0.55
2:FA:50:ASN:O	2:FA:64:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FB:320:ARG:HG2	3:FB:359:PRO:HA	1.88	0.55
2:GA:233:GLN:OE1	2:GA:233:GLN:N	2.39	0.55
2:GC:50:ASN:O	2:GC:64:ARG:NH2	2.39	0.55
2:GC:233:GLN:OE1	2:GC:233:GLN:N	2.39	0.55
2:GE:50:ASN:O	2:GE:64:ARG:NH2	2.39	0.55
3:HD:189:LEU:O	3:HD:193:GLN:NE2	2.36	0.55
3:IB:212:ILE:O	3:IB:216:THR:OG1	2.24	0.55
3:ID:66:ILE:HA	3:ID:91:ASN:HB3	1.88	0.55
3:ID:385:GLN:HB2	3:ID:429:VAL:HG23	1.88	0.55
2:JA:50:ASN:O	2:JA:64:ARG:NH2	2.39	0.55
2:JC:50:ASN:O	2:JC:64:ARG:NH2	2.39	0.55
2:JC:401:LYS:CE	3:JD:346:TRP:HE1	2.18	0.55
3:JD:210:TYR:HA	3:JD:213:CYS:SG	2.45	0.55
2:JE:50:ASN:O	2:JE:64:ARG:NH2	2.39	0.55
3:JF:66:ILE:HA	3:JF:91:ASN:HB3	1.88	0.55
3:KB:210:TYR:HA	3:KB:213:CYS:SG	2.45	0.55
3:KF:66:ILE:HA	3:KF:91:ASN:HB3	1.87	0.55
3:KF:389:LYS:HB3	3:KF:429:VAL:HG21	1.87	0.55
3:LB:212:ILE:O	3:LB:216:THR:OG1	2.23	0.55
3:LD:212:ILE:O	3:LD:216:THR:OG1	2.23	0.55
2:LE:233:GLN:N	2:LE:233:GLN:OE1	2.39	0.55
3:LF:212:ILE:O	3:LF:216:THR:OG1	2.24	0.55
3:MB:93:VAL:HG11	3:MB:118:VAL:HG12	1.88	0.55
2:MC:233:GLN:OE1	2:MC:233:GLN:N	2.39	0.55
3:MD:66:ILE:HA	3:MD:91:ASN:HB3	1.88	0.55
2:NA:233:GLN:OE1	2:NA:233:GLN:N	2.39	0.55
3:ND:93:VAL:HG11	3:ND:118:VAL:HG12	1.88	0.55
1:1C:60:MET:H	1:1C:60:MET:HE2	1.72	0.55
1:1C:81:ARG:NH2	2:AE:386:GLU:OE2	2.39	0.55
2:AA:190:THR:O	2:AA:193:THR:OG1	2.22	0.55
3:AD:347:ILE:HG23	3:AD:350:ASN:ND2	2.21	0.55
3:AF:347:ILE:HG23	3:AF:350:ASN:ND2	2.21	0.55
3:BB:259:MET:HA	3:BB:314:THR:HG21	1.87	0.55
2:BC:168:GLU:O	2:BC:202:PHE:N	2.31	0.55
2:BC:233:GLN:OE1	2:BC:233:GLN:N	2.39	0.55
3:BD:389:LYS:HB3	3:BD:429:VAL:HG21	1.87	0.55
3:BF:93:VAL:HG11	3:BF:118:VAL:HG12	1.88	0.55
3:DF:259:MET:HA	3:DF:314:THR:HG21	1.87	0.55
3:EB:320:ARG:HG2	3:EB:359:PRO:HA	1.88	0.55
2:EE:190:THR:O	2:EE:193:THR:OG1	2.22	0.55
2:FC:50:ASN:O	2:FC:64:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:223:THR:N	3:GB:226:ASP:OD2	2.39	0.55
3:GD:223:THR:N	3:GD:226:ASP:OD2	2.39	0.55
3:HB:238:VAL:HG23	3:HB:239:THR:HG23	1.89	0.55
2:HC:50:ASN:O	2:HC:64:ARG:NH2	2.39	0.55
3:IB:238:VAL:HG23	3:IB:239:THR:HG23	1.89	0.55
2:IC:50:ASN:O	2:IC:64:ARG:NH2	2.39	0.55
3:IF:66:ILE:HA	3:IF:91:ASN:HB3	1.88	0.55
3:IF:320:ARG:HG2	3:IF:359:PRO:HA	1.88	0.55
3:IF:347:ILE:HG23	3:IF:350:ASN:ND2	2.21	0.55
3:IF:385:GLN:HB2	3:IF:429:VAL:HG23	1.88	0.55
2:JA:214:ARG:HH12	2:JA:220:GLU:HG2	1.72	0.55
3:JB:238:VAL:HG23	3:JB:239:THR:HG23	1.89	0.55
3:JB:389:LYS:HB3	3:JB:429:VAL:HG21	1.87	0.55
2:JE:100:ALA:C	3:JF:257:VAL:HG11	2.32	0.55
2:KA:214:ARG:HH12	2:KA:220:GLU:HG2	1.72	0.55
3:KB:347:ILE:HG23	3:KB:350:ASN:ND2	2.21	0.55
2:KC:214:ARG:HH12	2:KC:220:GLU:HG2	1.72	0.55
3:KD:389:LYS:HB3	3:KD:429:VAL:HG21	1.87	0.55
3:KF:210:TYR:HA	3:KF:213:CYS:SG	2.45	0.55
2:LA:233:GLN:OE1	2:LA:233:GLN:N	2.39	0.55
2:LC:233:GLN:OE1	2:LC:233:GLN:N	2.39	0.55
2:MA:394:LYS:HZ3	2:MA:397:LEU:HD23	1.72	0.55
3:MF:66:ILE:HA	3:MF:91:ASN:HB3	1.87	0.55
2:NA:101:ASN:H	3:NB:254:LYS:HZ3	1.53	0.55
3:NB:401:ARG:C	2:NC:346:TRP:CH2	2.76	0.55
2:NC:233:GLN:N	2:NC:233:GLN:OE1	2.39	0.55
3:ND:66:ILE:HA	3:ND:91:ASN:HB3	1.88	0.55
2:NE:190:THR:O	2:NE:193:THR:OG1	2.22	0.55
3:NF:93:VAL:HG11	3:NF:118:VAL:HG12	1.88	0.55
1:1A:23:TRP:O	1:1A:27:ILE:HD12	2.06	0.55
1:1C:29:LEU:HD21	1:1C:49:VAL:HA	1.88	0.55
1:1E:23:TRP:O	1:1E:27:ILE:HD12	2.06	0.55
2:AA:233:GLN:OE1	2:AA:233:GLN:N	2.38	0.55
3:AB:403:ALA:HB2	2:AC:346:TRP:CZ2	2.42	0.55
3:AB:403:ALA:CB	2:AC:346:TRP:CH2	2.83	0.55
3:AD:93:VAL:HG11	3:AD:118:VAL:HG12	1.88	0.55
2:AE:233:GLN:OE1	2:AE:233:GLN:N	2.39	0.55
2:CA:207:GLU:HG3	2:CA:304:LYS:HE3	1.89	0.55
2:DE:190:THR:O	2:DE:193:THR:OG1	2.22	0.55
2:EA:214:ARG:HH12	2:EA:220:GLU:HG2	1.72	0.55
3:EB:223:THR:N	3:EB:226:ASP:OD2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:320:ARG:HG2	3:EF:359:PRO:HA	1.88	0.55
3:FB:259:MET:HA	3:FB:314:THR:HG21	1.87	0.55
3:FD:259:MET:HA	3:FD:314:THR:HG21	1.87	0.55
2:FE:50:ASN:O	2:FE:64:ARG:NH2	2.39	0.55
3:GB:259:MET:HA	3:GB:314:THR:HG21	1.87	0.55
2:GC:214:ARG:HH12	2:GC:220:GLU:HG2	1.72	0.55
3:GD:66:ILE:HA	3:GD:91:ASN:HB3	1.88	0.55
3:GF:223:THR:N	3:GF:226:ASP:OD2	2.39	0.55
2:HA:214:ARG:HH12	2:HA:220:GLU:HG2	1.72	0.55
2:HC:214:ARG:HH12	2:HC:220:GLU:HG2	1.72	0.55
2:IA:98:ASP:CG	3:IB:254:LYS:HE2	2.32	0.55
2:IA:187:SER:O	2:IA:190:THR:OG1	2.23	0.55
2:IA:224:TYR:HE1	3:IB:325:MET:HG3	1.69	0.55
3:IB:385:GLN:HB2	3:IB:429:VAL:HG23	1.88	0.55
2:IE:56:THR:CA	2:JE:285:GLN:HB2	2.37	0.55
3:JD:389:LYS:HB3	3:JD:429:VAL:HG21	1.87	0.55
2:KA:233:GLN:N	2:KA:233:GLN:OE1	2.38	0.55
2:KC:397:LEU:HD12	3:KD:346:TRP:CE3	2.42	0.55
2:KE:50:ASN:O	2:KE:64:ARG:NH2	2.39	0.55
2:KE:107:HIS:HD1	2:KE:151:SER:HG	1.49	0.55
2:KE:214:ARG:HH12	2:KE:220:GLU:HG2	1.72	0.55
2:KE:344:VAL:HG23	2:KE:346:TRP:HB2	1.88	0.55
3:LB:66:ILE:HA	3:LB:91:ASN:HB3	1.87	0.55
3:MD:189:LEU:O	3:MD:193:GLN:NE2	2.36	0.55
3:MD:347:ILE:HG23	3:MD:350:ASN:ND2	2.21	0.55
2:NC:118:VAL:HG21	2:NC:149:PHE:HZ	1.72	0.55
1:1B:23:TRP:HB3	1:1B:115:ARG:HH22	1.71	0.55
1:1D:60:MET:HE2	1:1D:60:MET:H	1.71	0.55
3:AB:221:THR:HA	2:AC:326:LYS:NZ	2.20	0.55
3:AD:223:THR:N	3:AD:226:ASP:OD2	2.39	0.55
2:AE:168:GLU:O	2:AE:202:PHE:N	2.31	0.55
3:AF:223:THR:N	3:AF:226:ASP:OD2	2.39	0.55
2:BA:168:GLU:O	2:BA:202:PHE:N	2.31	0.55
2:BA:190:THR:O	2:BA:193:THR:OG1	2.22	0.55
2:BC:50:ASN:O	2:BC:64:ARG:NH2	2.39	0.55
3:BF:259:MET:HA	3:BF:314:THR:HG21	1.87	0.55
3:BF:389:LYS:HB3	3:BF:429:VAL:HG21	1.87	0.55
2:CC:207:GLU:HG3	2:CC:304:LYS:HE3	1.89	0.55
2:CE:207:GLU:HG3	2:CE:304:LYS:HE3	1.89	0.55
2:DC:190:THR:O	2:DC:193:THR:OG1	2.22	0.55
2:DC:207:GLU:HG3	2:DC:304:LYS:HE3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:401:ARG:HD2	2:DE:346:TRP:CZ2	2.42	0.55
3:ED:223:THR:N	3:ED:226:ASP:OD2	2.39	0.55
3:ED:320:ARG:HG2	3:ED:359:PRO:HA	1.88	0.55
2:EE:214:ARG:HH12	2:EE:220:GLU:HG2	1.72	0.55
3:EF:223:THR:N	3:EF:226:ASP:OD2	2.39	0.55
2:FA:401:LYS:HD3	3:FB:346:TRP:CE2	2.41	0.55
2:FE:214:ARG:HH12	2:FE:220:GLU:HG2	1.72	0.55
3:FF:223:THR:N	3:FF:226:ASP:OD2	2.39	0.55
3:FF:259:MET:HA	3:FF:314:THR:HG21	1.87	0.55
3:GB:66:ILE:HA	3:GB:91:ASN:HB3	1.88	0.55
2:GE:214:ARG:HH12	2:GE:220:GLU:HG2	1.72	0.55
3:GF:66:ILE:HA	3:GF:91:ASN:HB3	1.87	0.55
3:HD:238:VAL:HG23	3:HD:239:THR:HG23	1.89	0.55
3:HF:189:LEU:O	3:HF:193:GLN:NE2	2.36	0.55
3:HF:238:VAL:HG23	3:HF:239:THR:HG23	1.89	0.55
2:IA:100:ALA:O	3:IB:257:VAL:HG21	2.06	0.55
3:IF:223:THR:N	3:IF:226:ASP:OD2	2.39	0.55
3:IF:330:GLU:O	3:IF:334:ASN:ND2	2.21	0.55
3:JB:136:GLN:OE1	3:JB:136:GLN:N	2.35	0.55
3:JD:238:VAL:HG23	3:JD:239:THR:HG23	1.89	0.55
2:JE:187:SER:O	2:JE:190:THR:OG1	2.23	0.55
2:JE:344:VAL:HG23	2:JE:346:TRP:HB2	1.88	0.55
3:JF:223:THR:N	3:JF:226:ASP:OD2	2.39	0.55
3:KB:66:ILE:HA	3:KB:91:ASN:HB3	1.88	0.55
2:KC:50:ASN:O	2:KC:64:ARG:NH2	2.39	0.55
2:KC:107:HIS:HD1	2:KC:151:SER:HG	1.49	0.55
3:LB:347:ILE:HG23	3:LB:350:ASN:ND2	2.21	0.55
3:LD:66:ILE:HA	3:LD:91:ASN:HB3	1.88	0.55
2:MA:118:VAL:HG21	2:MA:149:PHE:HZ	1.72	0.55
2:MA:344:VAL:HG23	2:MA:346:TRP:HB2	1.88	0.55
2:MA:401:LYS:HD3	3:MB:346:TRP:NE1	2.15	0.55
3:MF:189:LEU:O	3:MF:193:GLN:NE2	2.36	0.55
3:MF:217:LEU:HB3	3:MF:219:LEU:HD23	1.89	0.55
2:NA:118:VAL:HG21	2:NA:149:PHE:HZ	1.72	0.55
1:1C:61:HIS:CG	1:1C:61:HIS:O	2.59	0.55
1:1D:23:TRP:HB3	1:1D:115:ARG:HH22	1.72	0.55
1:1D:78:HIS:CD2	1:1D:82:LYS:CE	2.90	0.55
1:1E:61:HIS:O	1:1E:61:HIS:CG	2.59	0.55
2:AA:118:VAL:HG21	2:AA:149:PHE:HZ	1.72	0.55
3:AB:347:ILE:HG23	3:AB:350:ASN:ND2	2.21	0.55
2:AC:118:VAL:HG21	2:AC:149:PHE:HZ	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:118:VAL:HG21	2:AE:149:PHE:HZ	1.72	0.55
3:AF:93:VAL:HG11	3:AF:118:VAL:HG12	1.88	0.55
2:BA:50:ASN:O	2:BA:64:ARG:NH2	2.39	0.55
2:BA:118:VAL:HG21	2:BA:149:PHE:HZ	1.72	0.55
2:BE:50:ASN:O	2:BE:64:ARG:NH2	2.39	0.55
2:BE:118:VAL:HG21	2:BE:149:PHE:HZ	1.72	0.55
2:BE:233:GLN:OE1	2:BE:233:GLN:N	2.39	0.55
3:CB:259:MET:HA	3:CB:314:THR:HG21	1.87	0.55
3:CD:394:GLN:NE2	2:CE:348:PRO:HG2	2.17	0.55
2:DA:105:ARG:HH12	3:DB:253:ARG:CD	2.19	0.55
2:DE:207:GLU:HG3	2:DE:304:LYS:HE3	1.89	0.55
4:DE:501:GTP:O3G	3:DF:254:LYS:NZ	2.39	0.55
2:EA:190:THR:O	2:EA:193:THR:OG1	2.22	0.55
2:EE:168:GLU:O	2:EE:202:PHE:N	2.31	0.55
2:FA:118:VAL:HG21	2:FA:149:PHE:HZ	1.72	0.55
3:FB:223:THR:N	3:FB:226:ASP:OD2	2.39	0.55
2:FC:214:ARG:HH12	2:FC:220:GLU:HG2	1.72	0.55
2:FC:226:ASN:HA	2:FC:229:ARG:HE	1.72	0.55
3:FD:223:THR:N	3:FD:226:ASP:OD2	2.39	0.55
2:GA:226:ASN:HA	2:GA:229:ARG:HE	1.72	0.55
2:GC:226:ASN:HA	2:GC:229:ARG:HE	1.72	0.55
3:GD:8:GLN:HE22	3:GD:65:ALA:HB1	1.72	0.55
2:GE:226:ASN:HA	2:GE:229:ARG:HE	1.72	0.55
3:GF:8:GLN:HE22	3:GF:65:ALA:HB1	1.72	0.55
3:HF:8:GLN:HE22	3:HF:65:ALA:HB1	1.72	0.55
3:HF:69:ASP:OD2	3:HF:74:THR:OG1	2.18	0.55
3:ID:189:LEU:O	3:ID:193:GLN:NE2	2.36	0.55
3:ID:223:THR:N	3:ID:226:ASP:OD2	2.39	0.55
3:ID:238:VAL:HG23	3:ID:239:THR:HG23	1.89	0.55
3:JB:223:THR:N	3:JB:226:ASP:OD2	2.39	0.55
2:JC:187:SER:O	2:JC:190:THR:OG1	2.23	0.55
3:JD:223:THR:N	3:JD:226:ASP:OD2	2.39	0.55
2:KA:50:ASN:O	2:KA:64:ARG:NH2	2.39	0.55
2:KA:344:VAL:HG23	2:KA:346:TRP:HB2	1.88	0.55
2:KA:407:TRP:HH2	3:KB:260:VAL:O	1.90	0.55
3:KB:238:VAL:HG23	3:KB:239:THR:HG23	1.89	0.55
2:KC:226:ASN:HA	2:KC:229:ARG:HE	1.72	0.55
3:KD:66:ILE:HA	3:KD:91:ASN:HB3	1.88	0.55
2:KE:226:ASN:HA	2:KE:229:ARG:HE	1.72	0.55
2:KE:233:GLN:OE1	2:KE:233:GLN:N	2.39	0.55
2:LA:187:SER:O	2:LA:190:THR:OG1	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LA:214:ARG:HH12	2:LA:220:GLU:HG2	1.72	0.55
2:LA:344:VAL:HG23	2:LA:346:TRP:HB2	1.88	0.55
3:LB:238:VAL:HG23	3:LB:239:THR:HG23	1.88	0.55
3:LD:347:ILE:HG23	3:LD:350:ASN:ND2	2.21	0.55
2:LE:187:SER:O	2:LE:190:THR:OG1	2.23	0.55
3:LF:66:ILE:HA	3:LF:91:ASN:HB3	1.88	0.55
3:LF:347:ILE:HG23	3:LF:350:ASN:ND2	2.21	0.55
3:MB:189:LEU:O	3:MB:193:GLN:NE2	2.36	0.55
3:MB:217:LEU:HB3	3:MB:219:LEU:HD23	1.89	0.55
3:MB:347:ILE:HG23	3:MB:350:ASN:ND2	2.21	0.55
3:MD:217:LEU:HB3	3:MD:219:LEU:HD23	1.89	0.55
3:MF:389:LYS:HB3	3:MF:429:VAL:HG21	1.87	0.55
2:NE:118:VAL:HG21	2:NE:149:PHE:HZ	1.72	0.55
1:1D:29:LEU:HD21	1:1D:49:VAL:HA	1.88	0.55
3:AB:93:VAL:HG11	3:AB:118:VAL:HG12	1.88	0.55
2:AC:173:PRO:O	2:AC:390:ARG:NH2	2.40	0.55
3:AD:394:GLN:HE22	2:AE:348:PRO:HG2	1.71	0.55
2:BA:207:GLU:HG3	2:BA:304:LYS:HE3	1.89	0.55
3:BD:8:GLN:HE22	3:BD:65:ALA:HB1	1.72	0.55
3:CB:8:GLN:HE22	3:CB:65:ALA:HB1	1.72	0.55
3:CD:8:GLN:HE22	3:CD:65:ALA:HB1	1.72	0.55
3:CF:259:MET:HA	3:CF:314:THR:HG21	1.87	0.55
2:DA:207:GLU:HG3	2:DA:304:LYS:HE3	1.89	0.55
3:DD:320:ARG:HG2	3:DD:359:PRO:HA	1.88	0.55
2:EA:118:VAL:HG21	2:EA:149:PHE:HZ	1.72	0.55
2:EA:168:GLU:O	2:EA:202:PHE:N	2.31	0.55
3:EB:385:GLN:HB2	3:EB:429:VAL:HG23	1.88	0.55
2:EC:118:VAL:HG21	2:EC:149:PHE:HZ	1.72	0.55
2:EC:214:ARG:HH12	2:EC:220:GLU:HG2	1.72	0.55
3:ED:136:GLN:OE1	3:ED:136:GLN:N	2.35	0.55
3:EF:11:GLN:O	3:EF:15:GLN:HG2	2.07	0.55
2:FA:226:ASN:HA	2:FA:229:ARG:HE	1.72	0.55
3:FD:222:PRO:HD2	2:FE:326:LYS:NZ	2.21	0.55
2:FE:226:ASN:HA	2:FE:229:ARG:HE	1.72	0.55
3:GB:189:LEU:O	3:GB:193:GLN:NE2	2.36	0.55
3:GD:238:VAL:HG23	3:GD:239:THR:HG23	1.88	0.55
3:GF:238:VAL:HG23	3:GF:239:THR:HG23	1.88	0.55
2:HA:226:ASN:HA	2:HA:229:ARG:HE	1.72	0.55
3:HB:8:GLN:HE22	3:HB:65:ALA:HB1	1.72	0.55
2:HC:226:ASN:HA	2:HC:229:ARG:HE	1.72	0.55
3:HD:8:GLN:HE22	3:HD:65:ALA:HB1	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:226:ASN:HA	2:HE:229:ARG:HE	1.72	0.55
3:IF:8:GLN:HE22	3:IF:65:ALA:HB1	1.72	0.55
3:IF:238:VAL:HG23	3:IF:239:THR:HG23	1.89	0.55
2:JA:187:SER:O	2:JA:190:THR:OG1	2.23	0.55
2:JA:344:VAL:HG23	2:JA:346:TRP:HB2	1.88	0.55
3:JD:320:ARG:HG2	3:JD:359:PRO:HA	1.88	0.55
3:JF:238:VAL:HG23	3:JF:239:THR:HG23	1.88	0.55
3:JF:389:LYS:HB3	3:JF:429:VAL:HG21	1.87	0.55
2:KA:226:ASN:HA	2:KA:229:ARG:HE	1.72	0.55
3:KB:402:LYS:C	2:KC:346:TRP:CH2	2.84	0.55
2:KC:233:GLN:OE1	2:KC:233:GLN:N	2.39	0.55
2:KC:344:VAL:HG23	2:KC:346:TRP:HB2	1.89	0.55
2:KE:179:THR:O	3:KF:352:LYS:HD2	2.06	0.55
3:KF:238:VAL:HG23	3:KF:239:THR:HG23	1.89	0.55
3:KF:347:ILE:HG23	3:KF:350:ASN:ND2	2.21	0.55
2:LA:118:VAL:HG21	2:LA:149:PHE:HZ	1.72	0.55
3:LD:238:VAL:HG23	3:LD:239:THR:HG23	1.89	0.55
3:MB:394:GLN:HE22	2:MC:348:PRO:CG	2.18	0.55
2:MC:344:VAL:HG23	2:MC:346:TRP:HB2	1.88	0.55
2:ME:118:VAL:HG21	2:ME:149:PHE:HZ	1.72	0.55
3:NB:66:ILE:HA	3:NB:91:ASN:HB3	1.88	0.55
3:NB:136:GLN:OE1	3:NB:136:GLN:N	2.35	0.55
2:NC:190:THR:O	2:NC:193:THR:OG1	2.22	0.55
3:ND:347:ILE:HG23	3:ND:350:ASN:ND2	2.21	0.55
2:NE:168:GLU:O	2:NE:202:PHE:N	2.31	0.55
2:NE:173:PRO:O	2:NE:390:ARG:NH2	2.40	0.55
3:NF:347:ILE:HG23	3:NF:350:ASN:ND2	2.21	0.55
1:1C:61:HIS:C	2:AE:308:ARG:HH12	2.14	0.55
1:1D:61:HIS:CG	1:1D:61:HIS:O	2.59	0.55
2:AA:226:ASN:HA	2:AA:229:ARG:HE	1.72	0.55
3:AB:223:THR:N	3:AB:226:ASP:OD2	2.39	0.55
2:AC:233:GLN:N	2:AC:233:GLN:OE1	2.39	0.55
2:AE:173:PRO:O	2:AE:390:ARG:NH2	2.40	0.55
2:BA:226:ASN:HA	2:BA:229:ARG:HE	1.72	0.55
3:BB:8:GLN:HE22	3:BB:65:ALA:HB1	1.72	0.55
2:BC:118:VAL:HG21	2:BC:149:PHE:HZ	1.72	0.55
2:BC:207:GLU:HG3	2:BC:304:LYS:HE3	1.89	0.55
2:BC:226:ASN:HA	2:BC:229:ARG:HE	1.72	0.55
2:BE:207:GLU:HG3	2:BE:304:LYS:HE3	1.89	0.55
2:CA:118:VAL:HG21	2:CA:149:PHE:HZ	1.72	0.55
2:CC:118:VAL:HG21	2:CC:149:PHE:HZ	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:259:MET:HA	3:CD:314:THR:HG21	1.87	0.55
2:CE:50:ASN:O	2:CE:64:ARG:NH2	2.39	0.55
2:CE:118:VAL:HG21	2:CE:149:PHE:HZ	1.72	0.55
3:CF:8:GLN:HE22	3:CF:65:ALA:HB1	1.72	0.55
2:DA:118:VAL:HG21	2:DA:149:PHE:HZ	1.72	0.55
2:DA:173:PRO:O	2:DA:390:ARG:NH2	2.40	0.55
2:DC:173:PRO:O	2:DC:390:ARG:NH2	2.40	0.55
3:DF:320:ARG:HG2	3:DF:359:PRO:HA	1.88	0.55
3:ED:259:MET:HA	3:ED:314:THR:HG21	1.87	0.55
2:EE:118:VAL:HG21	2:EE:149:PHE:HZ	1.72	0.55
2:EE:207:GLU:HG3	2:EE:304:LYS:HE3	1.89	0.55
2:EE:226:ASN:HA	2:EE:229:ARG:HE	1.72	0.55
2:FA:190:THR:O	2:FA:193:THR:OG1	2.22	0.55
2:FA:214:ARG:HH12	2:FA:220:GLU:HG2	1.72	0.55
2:GA:214:ARG:HH12	2:GA:220:GLU:HG2	1.72	0.55
3:GB:8:GLN:HE22	3:GB:65:ALA:HB1	1.72	0.55
3:GB:238:VAL:HG23	3:GB:239:THR:HG23	1.89	0.55
2:GC:190:THR:O	2:GC:193:THR:OG1	2.22	0.55
3:GF:385:GLN:HB2	3:GF:429:VAL:HG23	1.88	0.55
3:IB:223:THR:N	3:IB:226:ASP:OD2	2.39	0.55
2:IC:226:ASN:HA	2:IC:229:ARG:HE	1.72	0.55
3:JB:320:ARG:HG2	3:JB:359:PRO:HA	1.88	0.55
2:JC:344:VAL:HG23	2:JC:346:TRP:HB2	1.88	0.55
3:JF:320:ARG:HG2	3:JF:359:PRO:HA	1.88	0.55
3:KD:238:VAL:HG23	3:KD:239:THR:HG23	1.89	0.55
3:KD:347:ILE:HG23	3:KD:350:ASN:ND2	2.21	0.55
3:LB:217:LEU:HB3	3:LB:219:LEU:HD23	1.89	0.55
2:LC:118:VAL:HG21	2:LC:149:PHE:HZ	1.72	0.55
2:LC:187:SER:O	2:LC:190:THR:OG1	2.23	0.55
3:LD:217:LEU:HB3	3:LD:219:LEU:HD23	1.89	0.55
3:LD:416:MET:O	3:LD:420:GLU:HG2	2.07	0.55
2:LE:118:VAL:HG21	2:LE:149:PHE:HZ	1.72	0.55
2:LE:214:ARG:HH12	2:LE:220:GLU:HG2	1.72	0.55
2:LE:344:VAL:HG23	2:LE:346:TRP:HB2	1.88	0.55
3:LF:238:VAL:HG23	3:LF:239:THR:HG23	1.88	0.55
2:MC:118:VAL:HG21	2:MC:149:PHE:HZ	1.72	0.55
2:ME:210:TYR:CE2	3:MF:326:LYS:HB3	2.42	0.55
2:ME:344:VAL:HG23	2:ME:346:TRP:HB2	1.89	0.55
4:NA:501:GTP:PG	3:NB:254:LYS:HZ1	2.29	0.55
3:NB:319:PHE:N	3:NB:354:ALA:O	2.37	0.55
2:NC:173:PRO:O	2:NC:390:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:60:MET:H	1:1B:60:MET:HE2	1.72	0.54
1:1C:23:TRP:O	1:1C:27:ILE:HD12	2.06	0.54
1:1C:78:HIS:CD2	1:1C:82:LYS:CE	2.90	0.54
1:1E:23:TRP:HB3	1:1E:115:ARG:HH22	1.72	0.54
1:1E:108:GLU:OE1	1:1E:108:GLU:N	2.33	0.54
2:AA:173:PRO:O	2:AA:390:ARG:NH2	2.40	0.54
2:AC:207:GLU:HG3	2:AC:304:LYS:HE3	1.89	0.54
2:AE:226:ASN:HA	2:AE:229:ARG:HE	1.72	0.54
2:BA:233:GLN:OE1	2:BA:233:GLN:N	2.39	0.54
2:BC:173:PRO:O	2:BC:390:ARG:NH2	2.40	0.54
3:BD:136:GLN:OE1	3:BD:136:GLN:N	2.35	0.54
2:BE:173:PRO:O	2:BE:390:ARG:NH2	2.40	0.54
3:BF:8:GLN:HE22	3:BF:65:ALA:HB1	1.72	0.54
2:CA:50:ASN:O	2:CA:64:ARG:NH2	2.39	0.54
3:CB:136:GLN:OE1	3:CB:136:GLN:N	2.35	0.54
2:CC:50:ASN:O	2:CC:64:ARG:NH2	2.39	0.54
3:CD:238:VAL:HG23	3:CD:239:THR:HG23	1.88	0.54
2:DE:118:VAL:HG21	2:DE:149:PHE:HZ	1.72	0.54
2:DE:173:PRO:O	2:DE:390:ARG:NH2	2.40	0.54
2:EA:50:ASN:O	2:EA:64:ARG:NH2	2.39	0.54
2:EC:207:GLU:HG3	2:EC:304:LYS:HE3	1.89	0.54
3:ED:385:GLN:HB2	3:ED:429:VAL:HG23	1.88	0.54
2:FA:168:GLU:O	2:FA:202:PHE:N	2.31	0.54
3:FB:101:ASN:ND2	2:FC:254:GLU:OE2	2.41	0.54
2:FC:118:VAL:HG21	2:FC:149:PHE:HZ	1.72	0.54
3:FD:66:ILE:HA	3:FD:91:ASN:HB3	1.87	0.54
2:FE:72:PRO:HG3	3:FF:1:MET:CE	2.36	0.54
3:GB:385:GLN:HB2	3:GB:429:VAL:HG23	1.88	0.54
7:GB:502:TA1:H381	7:GB:502:TA1:H131	1.90	0.54
2:GE:190:THR:O	2:GE:193:THR:OG1	2.22	0.54
2:IA:226:ASN:HA	2:IA:229:ARG:HE	1.72	0.54
3:ID:8:GLN:HE22	3:ID:65:ALA:HB1	1.72	0.54
3:IF:189:LEU:O	3:IF:193:GLN:NE2	2.36	0.54
3:JB:416:MET:O	3:JB:420:GLU:HG2	2.07	0.54
3:JD:136:GLN:OE1	3:JD:136:GLN:N	2.35	0.54
3:JD:416:MET:O	3:JD:420:GLU:HG2	2.07	0.54
3:KB:223:THR:N	3:KB:226:ASP:OD2	2.39	0.54
3:KB:319:PHE:N	3:KB:354:ALA:O	2.37	0.54
3:KD:212:ILE:O	3:KD:216:THR:OG1	2.23	0.54
3:KD:319:PHE:N	3:KD:354:ALA:O	2.37	0.54
3:KF:319:PHE:N	3:KF:354:ALA:O	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:416:MET:O	3:LB:420:GLU:HG2	2.08	0.54
2:LC:214:ARG:HH12	2:LC:220:GLU:HG2	1.72	0.54
2:LC:344:VAL:HG23	2:LC:346:TRP:HB2	1.88	0.54
2:LE:226:ASN:HA	2:LE:229:ARG:HE	1.72	0.54
3:LF:217:LEU:HB3	3:LF:219:LEU:HD23	1.89	0.54
3:LF:416:MET:O	3:LF:420:GLU:HG2	2.07	0.54
2:NA:173:PRO:O	2:NA:390:ARG:NH2	2.40	0.54
3:NF:217:LEU:HB3	3:NF:219:LEU:HD23	1.89	0.54
1:1A:60:MET:HE2	1:1A:60:MET:H	1.71	0.54
2:AA:207:GLU:HG3	2:AA:304:LYS:HE3	1.89	0.54
2:AC:226:ASN:HA	2:AC:229:ARG:HE	1.72	0.54
3:AF:320:ARG:HG2	3:AF:359:PRO:HA	1.88	0.54
2:BE:121:ARG:HA	2:BE:121:ARG:HE	1.73	0.54
2:BE:226:ASN:HA	2:BE:229:ARG:HE	1.72	0.54
3:BF:238:VAL:HG23	3:BF:239:THR:HG23	1.89	0.54
3:CB:238:VAL:HG23	3:CB:239:THR:HG23	1.89	0.54
3:CF:238:VAL:HG23	3:CF:239:THR:HG23	1.89	0.54
2:DA:50:ASN:O	2:DA:64:ARG:NH2	2.39	0.54
2:DA:190:THR:O	2:DA:193:THR:OG1	2.22	0.54
3:DB:320:ARG:HG2	3:DB:359:PRO:HA	1.88	0.54
2:DC:118:VAL:HG21	2:DC:149:PHE:HZ	1.72	0.54
2:DE:50:ASN:O	2:DE:64:ARG:NH2	2.39	0.54
2:DE:221:ARG:NE	3:DF:324:SER:HB3	2.22	0.54
2:EA:207:GLU:HG3	2:EA:304:LYS:HE3	1.89	0.54
2:EA:226:ASN:HA	2:EA:229:ARG:HE	1.72	0.54
3:EB:259:MET:HA	3:EB:314:THR:HG21	1.87	0.54
2:EC:226:ASN:HA	2:EC:229:ARG:HE	1.72	0.54
3:ED:11:GLN:O	3:ED:15:GLN:HG2	2.07	0.54
3:EF:385:GLN:HB2	3:EF:429:VAL:HG23	1.88	0.54
2:FA:187:SER:O	2:FA:190:THR:OG1	2.23	0.54
3:FB:8:GLN:HE22	3:FB:65:ALA:HB1	1.72	0.54
3:FD:8:GLN:HE22	3:FD:65:ALA:HB1	1.72	0.54
3:FD:185:TYR:OH	3:FD:398:MET:O	2.17	0.54
2:FE:118:VAL:HG21	2:FE:149:PHE:HZ	1.72	0.54
3:FF:8:GLN:HE22	3:FF:65:ALA:HB1	1.72	0.54
2:GA:118:VAL:HG21	2:GA:149:PHE:HZ	1.72	0.54
3:GB:143:GLY:O	3:GB:147:SER:OG	2.17	0.54
3:GD:385:GLN:HB2	3:GD:429:VAL:HG23	1.88	0.54
3:HD:11:GLN:O	3:HD:15:GLN:HG2	2.07	0.54
3:HD:401:ARG:HD2	2:HE:346:TRP:CZ2	2.42	0.54
3:HF:11:GLN:O	3:HF:15:GLN:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:8:GLN:HE22	3:IB:65:ALA:HB1	1.72	0.54
2:IE:226:ASN:HA	2:IE:229:ARG:HE	1.72	0.54
2:JA:226:ASN:HA	2:JA:229:ARG:HE	1.72	0.54
2:JE:226:ASN:HA	2:JE:229:ARG:HE	1.72	0.54
3:JF:416:MET:O	3:JF:420:GLU:HG2	2.08	0.54
2:KA:118:VAL:HG21	2:KA:149:PHE:HZ	1.72	0.54
3:KB:212:ILE:O	3:KB:216:THR:OG1	2.23	0.54
3:KB:217:LEU:HB3	3:KB:219:LEU:HD23	1.89	0.54
3:KB:320:ARG:HG2	3:KB:359:PRO:HA	1.88	0.54
3:KF:212:ILE:O	3:KF:216:THR:OG1	2.23	0.54
3:KF:320:ARG:HG2	3:KF:359:PRO:HA	1.88	0.54
2:LE:50:ASN:O	2:LE:64:ARG:NH2	2.39	0.54
3:MB:320:ARG:HG2	3:MB:359:PRO:HA	1.88	0.54
2:ME:173:PRO:O	2:ME:390:ARG:NH2	2.40	0.54
2:NA:190:THR:O	2:NA:193:THR:OG1	2.22	0.54
3:NB:347:ILE:HG23	3:NB:350:ASN:ND2	2.21	0.54
3:NB:416:MET:O	3:NB:420:GLU:HG2	2.07	0.54
1:1A:23:TRP:HB3	1:1A:115:ARG:HH22	1.72	0.54
1:1A:61:HIS:C	2:AA:308:ARG:NH1	2.65	0.54
1:1B:61:HIS:O	1:1B:61:HIS:CG	2.59	0.54
1:1D:23:TRP:O	1:1D:27:ILE:HD12	2.06	0.54
1:1E:95:VAL:HG12	1:1E:99:ILE:HD11	1.89	0.54
7:AB:502:TA1:H131	7:AB:502:TA1:H381	1.90	0.54
7:AD:502:TA1:H381	7:AD:502:TA1:H131	1.90	0.54
2:AE:207:GLU:HG3	2:AE:304:LYS:HE3	1.89	0.54
7:AF:502:TA1:H381	7:AF:502:TA1:H131	1.90	0.54
2:CA:173:PRO:O	2:CA:390:ARG:NH2	2.40	0.54
7:CB:502:TA1:H381	7:CB:502:TA1:H131	1.90	0.54
3:CD:136:GLN:OE1	3:CD:136:GLN:N	2.35	0.54
2:DC:50:ASN:O	2:DC:64:ARG:NH2	2.39	0.54
3:DD:238:VAL:HG23	3:DD:239:THR:HG23	1.88	0.54
3:EB:11:GLN:O	3:EB:15:GLN:HG2	2.07	0.54
3:EB:217:LEU:HB3	3:EB:219:LEU:HD23	1.89	0.54
2:EC:121:ARG:HA	2:EC:121:ARG:HE	1.73	0.54
2:EC:173:PRO:O	2:EC:390:ARG:NH2	2.40	0.54
7:ED:502:TA1:H381	7:ED:502:TA1:H131	1.90	0.54
2:FA:121:ARG:HA	2:FA:121:ARG:HE	1.73	0.54
3:FB:11:GLN:O	3:FB:15:GLN:HG2	2.07	0.54
3:FB:66:ILE:HA	3:FB:91:ASN:HB3	1.88	0.54
3:FD:11:GLN:O	3:FD:15:GLN:HG2	2.07	0.54
3:FD:385:GLN:HB2	3:FD:429:VAL:HG23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:GF:502:TA1:H381	7:GF:502:TA1:H131	1.90	0.54
3:HB:416:MET:O	3:HB:420:GLU:HG2	2.07	0.54
3:HD:223:THR:N	3:HD:226:ASP:OD2	2.39	0.54
2:JC:226:ASN:HA	2:JC:229:ARG:HE	1.72	0.54
3:KD:217:LEU:HB3	3:KD:219:LEU:HD23	1.89	0.54
3:KD:223:THR:N	3:KD:226:ASP:OD2	2.39	0.54
2:LA:121:ARG:HA	2:LA:121:ARG:HE	1.73	0.54
2:LA:226:ASN:HA	2:LA:229:ARG:HE	1.72	0.54
2:LC:226:ASN:HA	2:LC:229:ARG:HE	1.72	0.54
2:LE:121:ARG:HA	2:LE:121:ARG:HE	1.73	0.54
3:MB:212:ILE:O	3:MB:216:THR:OG1	2.23	0.54
2:MC:121:ARG:HA	2:MC:121:ARG:HE	1.73	0.54
2:MC:173:PRO:O	2:MC:390:ARG:NH2	2.40	0.54
3:MD:222:PRO:HD2	2:ME:326:LYS:HZ3	1.72	0.54
2:NC:214:ARG:HH12	2:NC:220:GLU:HG2	1.72	0.54
3:ND:217:LEU:HB3	3:ND:219:LEU:HD23	1.89	0.54
2:NE:344:VAL:HG23	2:NE:346:TRP:HB2	1.89	0.54
1:1A:61:HIS:CG	1:1A:61:HIS:O	2.60	0.54
1:1E:60:MET:H	1:1E:60:MET:HE2	1.72	0.54
3:AB:119:LEU:HA	3:AB:122:VAL:HG12	1.90	0.54
3:AD:320:ARG:HG2	3:AD:359:PRO:HA	1.88	0.54
2:AE:121:ARG:HA	2:AE:121:ARG:HE	1.73	0.54
2:AE:214:ARG:HH12	2:AE:220:GLU:HG2	1.72	0.54
2:AE:280:LYS:HZ2	3:NB:89:PRO:HB2	1.72	0.54
2:BA:173:PRO:O	2:BA:390:ARG:NH2	2.40	0.54
2:BC:121:ARG:HA	2:BC:121:ARG:HE	1.73	0.54
3:BD:238:VAL:HG23	3:BD:239:THR:HG23	1.89	0.54
2:CC:173:PRO:O	2:CC:390:ARG:NH2	2.40	0.54
2:CC:226:ASN:HA	2:CC:229:ARG:HE	1.72	0.54
7:CD:502:TA1:H381	7:CD:502:TA1:H131	1.90	0.54
2:CE:226:ASN:HA	2:CE:229:ARG:HE	1.72	0.54
2:DA:121:ARG:HA	2:DA:121:ARG:HE	1.73	0.54
2:DA:226:ASN:HA	2:DA:229:ARG:HE	1.72	0.54
2:DC:226:ASN:HA	2:DC:229:ARG:HE	1.72	0.54
2:DE:226:ASN:HA	2:DE:229:ARG:HE	1.72	0.54
3:DF:8:GLN:HE22	3:DF:65:ALA:HB1	1.72	0.54
3:DF:238:VAL:HG23	3:DF:239:THR:HG23	1.89	0.54
2:EA:121:ARG:HA	2:EA:121:ARG:HE	1.73	0.54
7:EB:502:TA1:H381	7:EB:502:TA1:H131	1.90	0.54
3:ED:217:LEU:HB3	3:ED:219:LEU:HD23	1.89	0.54
2:EE:50:ASN:O	2:EE:64:ARG:NH2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:121:ARG:HA	2:EE:121:ARG:HE	1.73	0.54
7:EF:502:TA1:H131	7:EF:502:TA1:H381	1.90	0.54
3:FB:185:TYR:OH	3:FB:398:MET:O	2.17	0.54
3:FB:385:GLN:HB2	3:FB:429:VAL:HG23	1.88	0.54
2:FC:121:ARG:HA	2:FC:121:ARG:HE	1.73	0.54
2:FC:207:GLU:HG3	2:FC:304:LYS:HE3	1.89	0.54
2:FE:207:GLU:HG3	2:FE:304:LYS:HE3	1.89	0.54
3:FF:66:ILE:HA	3:FF:91:ASN:HB3	1.87	0.54
2:GC:121:ARG:HA	2:GC:121:ARG:HE	1.73	0.54
3:GD:189:LEU:O	3:GD:193:GLN:NE2	2.36	0.54
7:GD:502:TA1:H131	7:GD:502:TA1:H381	1.90	0.54
3:HB:11:GLN:O	3:HB:15:GLN:HG2	2.07	0.54
3:HB:223:THR:N	3:HB:226:ASP:OD2	2.39	0.54
3:HD:385:GLN:HB2	3:HD:429:VAL:HG23	1.88	0.54
3:HD:416:MET:O	3:HD:420:GLU:HG2	2.07	0.54
3:HF:416:MET:O	3:HF:420:GLU:HG2	2.07	0.54
2:JA:118:VAL:HG21	2:JA:149:PHE:HZ	1.72	0.54
2:JA:121:ARG:HA	2:JA:121:ARG:HE	1.73	0.54
3:JF:8:GLN:HE22	3:JF:65:ALA:HB1	1.72	0.54
3:JF:212:ILE:O	3:JF:216:THR:OG1	2.24	0.54
2:KA:121:ARG:HA	2:KA:121:ARG:HE	1.73	0.54
2:KC:118:VAL:HG21	2:KC:149:PHE:HZ	1.72	0.54
2:KC:121:ARG:HA	2:KC:121:ARG:HE	1.73	0.54
2:LC:50:ASN:O	2:LC:64:ARG:NH2	2.39	0.54
2:LC:121:ARG:HA	2:LC:121:ARG:HE	1.73	0.54
2:MA:173:PRO:O	2:MA:390:ARG:NH2	2.40	0.54
3:MB:11:GLN:O	3:MB:15:GLN:HG2	2.07	0.54
3:MB:119:LEU:HA	3:MB:122:VAL:HG12	1.90	0.54
3:MD:320:ARG:HG2	3:MD:359:PRO:HA	1.88	0.54
2:ME:121:ARG:HE	2:ME:121:ARG:HA	1.73	0.54
2:NA:121:ARG:HA	2:NA:121:ARG:HE	1.73	0.54
2:NA:214:ARG:HH12	2:NA:220:GLU:HG2	1.72	0.54
2:NA:344:VAL:HG23	2:NA:346:TRP:HB2	1.88	0.54
3:NB:238:VAL:HG23	3:NB:239:THR:HG23	1.89	0.54
2:NC:121:ARG:HA	2:NC:121:ARG:HE	1.73	0.54
2:NC:344:VAL:HG23	2:NC:346:TRP:HB2	1.89	0.54
3:ND:416:MET:O	3:ND:420:GLU:HG2	2.07	0.54
2:AA:121:ARG:HA	2:AA:121:ARG:HE	1.73	0.54
2:AC:121:ARG:HA	2:AC:121:ARG:HE	1.73	0.54
3:AD:119:LEU:HA	3:AD:122:VAL:HG12	1.90	0.54
2:AE:284:GLU:OE2	3:NB:88:ARG:CZ	2.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:119:LEU:HA	3:AF:122:VAL:HG12	1.90	0.54
2:BA:121:ARG:HA	2:BA:121:ARG:HE	1.73	0.54
3:BB:238:VAL:HG23	3:BB:239:THR:HG23	1.89	0.54
2:BE:105:ARG:HH12	3:BF:253:ARG:HD2	1.72	0.54
3:BF:136:GLN:OE1	3:BF:136:GLN:N	2.35	0.54
3:BF:320:ARG:HG2	3:BF:359:PRO:HA	1.88	0.54
2:CA:121:ARG:HA	2:CA:121:ARG:HE	1.73	0.54
2:CA:226:ASN:HA	2:CA:229:ARG:HE	1.72	0.54
3:CD:11:GLN:O	3:CD:15:GLN:HG2	2.07	0.54
2:CE:173:PRO:O	2:CE:390:ARG:NH2	2.40	0.54
3:CF:11:GLN:O	3:CF:15:GLN:HG2	2.07	0.54
3:CF:136:GLN:OE1	3:CF:136:GLN:N	2.35	0.54
3:CF:320:ARG:HG2	3:CF:359:PRO:HA	1.88	0.54
7:CF:502:TA1:H381	7:CF:502:TA1:H131	1.90	0.54
2:EA:101:ASN:H	3:EB:254:LYS:NZ	2.06	0.54
2:EC:50:ASN:O	2:EC:64:ARG:NH2	2.39	0.54
3:ED:238:VAL:HG23	3:ED:239:THR:HG23	1.88	0.54
2:EE:105:ARG:NH1	3:EF:253:ARG:HD2	2.22	0.54
2:EE:173:PRO:O	2:EE:390:ARG:NH2	2.40	0.54
3:EF:238:VAL:HG23	3:EF:239:THR:HG23	1.89	0.54
2:FA:207:GLU:HG3	2:FA:304:LYS:HE3	1.89	0.54
3:FB:238:VAL:HG23	3:FB:239:THR:HG23	1.89	0.54
2:FC:187:SER:O	2:FC:190:THR:OG1	2.23	0.54
3:FD:217:LEU:HB3	3:FD:219:LEU:HD23	1.89	0.54
3:FD:238:VAL:HG23	3:FD:239:THR:HG23	1.89	0.54
3:FF:11:GLN:O	3:FF:15:GLN:HG2	2.07	0.54
3:FF:385:GLN:HB2	3:FF:429:VAL:HG23	1.88	0.54
2:GA:121:ARG:HA	2:GA:121:ARG:HE	1.73	0.54
2:GC:118:VAL:HG21	2:GC:149:PHE:HZ	1.72	0.54
2:GE:118:VAL:HG21	2:GE:149:PHE:HZ	1.72	0.54
2:GE:400:ALA:HB3	3:GF:346:TRP:HH2	1.73	0.54
3:HB:385:GLN:HB2	3:HB:429:VAL:HG23	1.88	0.54
3:HF:223:THR:N	3:HF:226:ASP:OD2	2.39	0.54
3:HF:385:GLN:HB2	3:HF:429:VAL:HG23	1.88	0.54
2:IA:118:VAL:HG21	2:IA:149:PHE:HZ	1.72	0.54
2:IC:344:VAL:HG23	2:IC:346:TRP:HB2	1.88	0.54
2:JC:118:VAL:HG21	2:JC:149:PHE:HZ	1.72	0.54
2:JC:121:ARG:HA	2:JC:121:ARG:HE	1.73	0.54
3:JD:212:ILE:O	3:JD:216:THR:OG1	2.23	0.54
2:JE:118:VAL:HG21	2:JE:149:PHE:HZ	1.72	0.54
2:JE:121:ARG:HA	2:JE:121:ARG:HE	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:136:GLN:OE1	3:JF:136:GLN:N	2.35	0.54
3:KD:320:ARG:HG2	3:KD:359:PRO:HA	1.88	0.54
2:LA:50:ASN:O	2:LA:64:ARG:NH2	2.39	0.54
2:LA:173:PRO:O	2:LA:390:ARG:NH2	2.40	0.54
2:LC:173:PRO:O	2:LC:390:ARG:NH2	2.40	0.54
3:LD:11:GLN:O	3:LD:15:GLN:HG2	2.07	0.54
3:LF:60:LYS:CD	3:MF:282:GLN:NE2	2.70	0.54
2:MA:121:ARG:HA	2:MA:121:ARG:HE	1.73	0.54
3:MD:11:GLN:O	3:MD:15:GLN:HG2	2.07	0.54
7:MD:502:TA1:H381	7:MD:502:TA1:H131	1.90	0.54
2:NA:181:VAL:HG12	3:NB:258:ASN:OD1	2.07	0.54
2:NC:168:GLU:O	2:NC:202:PHE:N	2.31	0.54
2:NE:121:ARG:HA	2:NE:121:ARG:HE	1.73	0.54
3:NF:416:MET:O	3:NF:420:GLU:HG2	2.07	0.54
1:1B:78:HIS:CD2	1:1B:82:LYS:CE	2.90	0.54
1:1D:62:ASN:HB2	1:1D:78:HIS:CE1	2.39	0.54
2:AA:214:ARG:HH12	2:AA:220:GLU:HG2	1.72	0.54
3:AB:11:GLN:O	3:AB:15:GLN:HG2	2.07	0.54
2:AC:214:ARG:HH12	2:AC:220:GLU:HG2	1.72	0.54
3:AF:238:VAL:HG23	3:AF:239:THR:HG23	1.89	0.54
3:CB:11:GLN:O	3:CB:15:GLN:HG2	2.07	0.54
3:CD:320:ARG:HG2	3:CD:359:PRO:HA	1.88	0.54
2:DA:214:ARG:HH12	2:DA:220:GLU:HG2	1.72	0.54
3:DB:217:LEU:HB3	3:DB:219:LEU:HD23	1.89	0.54
3:DB:238:VAL:HG23	3:DB:239:THR:HG23	1.89	0.54
2:DE:121:ARG:HA	2:DE:121:ARG:HE	1.73	0.54
2:EA:173:PRO:O	2:EA:390:ARG:NH2	2.40	0.54
3:EB:238:VAL:HG23	3:EB:239:THR:HG23	1.89	0.54
2:FA:344:VAL:HG23	2:FA:346:TRP:HB2	1.88	0.54
2:FC:190:THR:O	2:FC:193:THR:OG1	2.22	0.54
2:FE:121:ARG:HA	2:FE:121:ARG:HE	1.73	0.54
3:FF:238:VAL:HG23	3:FF:239:THR:HG23	1.89	0.54
2:GA:190:THR:O	2:GA:193:THR:OG1	2.22	0.54
2:GE:121:ARG:HA	2:GE:121:ARG:HE	1.73	0.54
2:HC:221:ARG:HE	3:HD:324:SER:HB3	1.73	0.54
2:HE:121:ARG:HA	2:HE:121:ARG:HE	1.73	0.54
2:IA:121:ARG:HA	2:IA:121:ARG:HE	1.73	0.54
3:JD:8:GLN:HE22	3:JD:65:ALA:HB1	1.72	0.54
2:KE:118:VAL:HG21	2:KE:149:PHE:HZ	1.72	0.54
2:KE:121:ARG:HA	2:KE:121:ARG:HE	1.73	0.54
3:KF:217:LEU:HB3	3:KF:219:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:11:GLN:O	3:LB:15:GLN:HG2	2.07	0.54
2:LE:173:PRO:O	2:LE:390:ARG:NH2	2.40	0.54
3:LF:11:GLN:O	3:LF:15:GLN:HG2	2.07	0.54
2:MA:100:ALA:O	3:MB:257:VAL:HG11	2.08	0.54
7:MB:502:TA1:H381	7:MB:502:TA1:H131	1.90	0.54
2:MC:187:SER:O	2:MC:190:THR:OG1	2.23	0.54
2:ME:401:LYS:CE	3:MF:346:TRP:HE1	2.21	0.54
7:MF:502:TA1:H131	7:MF:502:TA1:H381	1.90	0.54
3:NB:8:GLN:HE22	3:NB:65:ALA:HB1	1.72	0.54
3:NB:217:LEU:HB3	3:NB:219:LEU:HD23	1.89	0.54
3:ND:238:VAL:HG23	3:ND:239:THR:HG23	1.88	0.54
1:1A:61:HIS:O	2:AA:308:ARG:O	2.26	0.54
2:AA:344:VAL:HG23	2:AA:346:TRP:HB2	1.88	0.54
3:AF:217:LEU:HB3	3:AF:219:LEU:HD23	1.89	0.54
3:CB:320:ARG:HG2	3:CB:359:PRO:HA	1.88	0.54
2:CC:121:ARG:HA	2:CC:121:ARG:HE	1.73	0.54
2:CC:401:LYS:CD	3:CD:346:TRP:HE1	2.19	0.54
2:DC:121:ARG:HA	2:DC:121:ARG:HE	1.73	0.54
3:DD:8:GLN:HE22	3:DD:65:ALA:HB1	1.72	0.54
3:EB:394:GLN:NE2	2:EC:348:PRO:HG2	2.23	0.54
2:FA:139:HIS:ND1	2:FA:146:GLY:O	2.41	0.54
2:FA:173:PRO:O	2:FA:390:ARG:NH2	2.40	0.54
3:FB:217:LEU:HB3	3:FB:219:LEU:HD23	1.89	0.54
2:FC:139:HIS:ND1	2:FC:146:GLY:O	2.41	0.54
2:FC:344:VAL:HG23	2:FC:346:TRP:HB2	1.88	0.54
2:FE:190:THR:O	2:FE:193:THR:OG1	2.22	0.54
3:GB:11:GLN:O	3:GB:15:GLN:HG2	2.07	0.54
2:HA:118:VAL:HG21	2:HA:149:PHE:HZ	1.72	0.54
2:HA:121:ARG:HA	2:HA:121:ARG:HE	1.73	0.54
2:HA:344:VAL:HG23	2:HA:346:TRP:HB2	1.88	0.54
2:HC:344:VAL:HG23	2:HC:346:TRP:HB2	1.88	0.54
2:HE:118:VAL:HG21	2:HE:149:PHE:HZ	1.72	0.54
2:IA:344:VAL:HG23	2:IA:346:TRP:HB2	1.88	0.54
2:IC:118:VAL:HG21	2:IC:149:PHE:HZ	1.72	0.54
2:IC:121:ARG:HA	2:IC:121:ARG:HE	1.73	0.54
2:IE:121:ARG:HA	2:IE:121:ARG:HE	1.73	0.54
2:IE:344:VAL:HG23	2:IE:346:TRP:HB2	1.89	0.54
2:JA:105:ARG:HH12	3:JB:253:ARG:HD2	1.73	0.54
3:JB:212:ILE:O	3:JB:216:THR:OG1	2.24	0.54
3:KF:223:THR:N	3:KF:226:ASP:OD2	2.39	0.54
3:LD:401:ARG:HD2	2:LE:346:TRP:CH2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MB:221:THR:CA	2:MC:326:LYS:HZ3	2.18	0.54
3:MD:119:LEU:HA	3:MD:122:VAL:HG12	1.90	0.54
3:MD:238:VAL:HG23	3:MD:239:THR:HG23	1.88	0.54
3:MF:212:ILE:O	3:MF:216:THR:OG1	2.23	0.54
3:MF:320:ARG:HG2	3:MF:359:PRO:HA	1.88	0.54
3:ND:11:GLN:O	3:ND:15:GLN:HG2	2.07	0.54
3:NF:320:ARG:HG2	3:NF:359:PRO:HA	1.88	0.54
1:1B:95:VAL:HG12	1:1B:99:ILE:HD11	1.89	0.54
3:AB:8:GLN:HE22	3:AB:65:ALA:HB1	1.72	0.54
3:AB:238:VAL:HG23	3:AB:239:THR:HG23	1.89	0.54
3:AB:320:ARG:HG2	3:AB:359:PRO:HA	1.88	0.54
2:AC:105:ARG:NH1	3:AD:253:ARG:HD2	2.21	0.54
3:AD:8:GLN:HE22	3:AD:65:ALA:HB1	1.72	0.54
3:AD:11:GLN:O	3:AD:15:GLN:HG2	2.07	0.54
2:AE:344:VAL:HG23	2:AE:346:TRP:HB2	1.88	0.54
3:BD:320:ARG:HG2	3:BD:359:PRO:HA	1.88	0.54
3:BF:217:LEU:HB3	3:BF:219:LEU:HD23	1.89	0.54
2:CE:121:ARG:HA	2:CE:121:ARG:HE	1.73	0.54
2:DA:139:HIS:ND1	2:DA:146:GLY:O	2.41	0.54
3:DB:8:GLN:HE22	3:DB:65:ALA:HB1	1.72	0.54
2:DC:214:ARG:HH12	2:DC:220:GLU:HG2	1.72	0.54
3:DD:217:LEU:HB3	3:DD:219:LEU:HD23	1.89	0.54
2:DE:214:ARG:HH12	2:DE:220:GLU:HG2	1.72	0.54
3:DF:416:MET:O	3:DF:420:GLU:HG2	2.07	0.54
2:EA:139:HIS:ND1	2:EA:146:GLY:O	2.41	0.54
2:EE:139:HIS:ND1	2:EE:146:GLY:O	2.41	0.54
3:EF:136:GLN:OE1	3:EF:136:GLN:N	2.35	0.54
3:EF:217:LEU:HB3	3:EF:219:LEU:HD23	1.89	0.54
2:FE:139:HIS:ND1	2:FE:146:GLY:O	2.41	0.54
2:FE:187:SER:O	2:FE:190:THR:OG1	2.23	0.54
3:FF:217:LEU:HB3	3:FF:219:LEU:HD23	1.89	0.54
2:GA:139:HIS:ND1	2:GA:146:GLY:O	2.41	0.54
2:HC:118:VAL:HG21	2:HC:149:PHE:HZ	1.72	0.54
2:HC:121:ARG:HA	2:HC:121:ARG:HE	1.73	0.54
2:IE:118:VAL:HG21	2:IE:149:PHE:HZ	1.72	0.54
3:JB:11:GLN:O	3:JB:15:GLN:HG2	2.07	0.54
7:JF:502:TA1:H381	7:JF:502:TA1:H131	1.90	0.54
2:KA:107:HIS:HD1	2:KA:151:SER:HG	1.51	0.54
7:LB:502:TA1:H381	7:LB:502:TA1:H131	1.90	0.54
3:LD:60:LYS:HE3	3:MD:282:GLN:O	2.07	0.54
7:LF:502:TA1:H381	7:LF:502:TA1:H131	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:212:ILE:O	3:MD:216:THR:OG1	2.24	0.54
2:ME:187:SER:O	2:ME:190:THR:OG1	2.23	0.54
2:NA:168:GLU:O	2:NA:202:PHE:N	2.31	0.54
3:NB:11:GLN:O	3:NB:15:GLN:HG2	2.07	0.54
3:ND:319:PHE:N	3:ND:354:ALA:O	2.37	0.54
3:NF:11:GLN:O	3:NF:15:GLN:HG2	2.07	0.54
2:AC:344:VAL:HG23	2:AC:346:TRP:HB2	1.88	0.54
3:AD:238:VAL:HG23	3:AD:239:THR:HG23	1.89	0.54
3:AF:11:GLN:O	3:AF:15:GLN:HG2	2.07	0.54
2:BC:139:HIS:ND1	2:BC:146:GLY:O	2.41	0.54
2:BC:214:ARG:HH12	2:BC:220:GLU:HG2	1.72	0.54
3:BD:217:LEU:HB3	3:BD:219:LEU:HD23	1.89	0.54
2:BE:139:HIS:ND1	2:BE:146:GLY:O	2.41	0.54
3:BF:11:GLN:O	3:BF:15:GLN:HG2	2.07	0.54
2:CA:89:PRO:HD2	2:DA:280:LYS:NZ	2.23	0.54
2:CC:139:HIS:ND1	2:CC:146:GLY:O	2.41	0.54
2:CE:139:HIS:ND1	2:CE:146:GLY:O	2.41	0.54
3:DB:11:GLN:O	3:DB:15:GLN:HG2	2.07	0.54
2:DC:139:HIS:ND1	2:DC:146:GLY:O	2.41	0.54
3:DD:11:GLN:O	3:DD:15:GLN:HG2	2.07	0.54
3:DD:416:MET:O	3:DD:420:GLU:HG2	2.07	0.54
2:DE:139:HIS:ND1	2:DE:146:GLY:O	2.41	0.54
2:DE:344:VAL:HG23	2:DE:346:TRP:HB2	1.88	0.54
2:EA:344:VAL:HG23	2:EA:346:TRP:HB2	1.88	0.54
3:EB:394:GLN:HE22	2:EC:348:PRO:CG	2.21	0.54
3:EB:416:MET:O	3:EB:420:GLU:HG2	2.07	0.54
2:EC:139:HIS:ND1	2:EC:146:GLY:O	2.41	0.54
3:ED:416:MET:O	3:ED:420:GLU:HG2	2.07	0.54
3:EF:416:MET:O	3:EF:420:GLU:HG2	2.07	0.54
2:GC:139:HIS:ND1	2:GC:146:GLY:O	2.41	0.54
2:GE:139:HIS:ND1	2:GE:146:GLY:O	2.41	0.54
3:GF:189:LEU:O	3:GF:193:GLN:NE2	2.36	0.54
2:HC:224:TYR:CE1	3:HD:325:MET:HG3	2.43	0.54
2:HE:344:VAL:HG23	2:HE:346:TRP:HB2	1.88	0.54
2:HE:401:LYS:HD3	3:HF:346:TRP:NE1	2.23	0.54
3:JB:8:GLN:HE22	3:JB:65:ALA:HB1	1.72	0.54
2:JC:401:LYS:HD3	3:JD:346:TRP:HE1	1.71	0.54
3:JD:11:GLN:O	3:JD:15:GLN:HG2	2.07	0.54
7:JD:502:TA1:H381	7:JD:502:TA1:H131	1.90	0.54
3:KB:8:GLN:HE22	3:KB:65:ALA:HB1	1.72	0.54
2:KC:139:HIS:ND1	2:KC:146:GLY:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:8:GLN:HE22	3:KD:65:ALA:HB1	1.72	0.54
3:KD:11:GLN:O	3:KD:15:GLN:HG2	2.07	0.54
3:KD:119:LEU:HA	3:KD:122:VAL:HG12	1.90	0.54
2:KE:139:HIS:ND1	2:KE:146:GLY:O	2.41	0.54
3:KF:11:GLN:O	3:KF:15:GLN:HG2	2.07	0.54
3:KF:119:LEU:HA	3:KF:122:VAL:HG12	1.90	0.54
2:LA:139:HIS:ND1	2:LA:146:GLY:O	2.41	0.54
4:LA:501:GTP:O3G	3:LB:254:LYS:NZ	2.40	0.54
2:LC:139:HIS:ND1	2:LC:146:GLY:O	2.41	0.54
7:LD:502:TA1:H381	7:LD:502:TA1:H131	1.90	0.54
2:LE:190:THR:O	2:LE:193:THR:OG1	2.22	0.54
2:MA:214:ARG:HH12	2:MA:220:GLU:HG2	1.72	0.54
3:MB:136:GLN:OE1	3:MB:136:GLN:N	2.35	0.54
2:MC:214:ARG:HH12	2:MC:220:GLU:HG2	1.72	0.54
3:MD:401:ARG:HD2	2:ME:346:TRP:CH2	2.43	0.54
3:MF:119:LEU:HA	3:MF:122:VAL:HG12	1.90	0.54
2:NA:226:ASN:HA	2:NA:229:ARG:HE	1.72	0.54
2:NE:207:GLU:HG3	2:NE:304:LYS:HE3	1.89	0.54
2:NE:214:ARG:HH12	2:NE:220:GLU:HG2	1.72	0.54
3:AB:217:LEU:HB3	3:AB:219:LEU:HD23	1.89	0.54
3:AD:217:LEU:HB3	3:AD:219:LEU:HD23	1.89	0.54
3:AF:8:GLN:HE22	3:AF:65:ALA:HB1	1.72	0.54
3:BB:320:ARG:HG2	3:BB:359:PRO:HA	1.88	0.54
2:CA:139:HIS:ND1	2:CA:146:GLY:O	2.41	0.54
2:CE:344:VAL:HG23	2:CE:346:TRP:HB2	1.88	0.54
2:FC:168:GLU:O	2:FC:202:PHE:N	2.31	0.54
2:FC:173:PRO:O	2:FC:390:ARG:NH2	2.40	0.54
2:FE:168:GLU:O	2:FE:202:PHE:N	2.31	0.54
2:FE:173:PRO:O	2:FE:390:ARG:NH2	2.40	0.54
3:GB:217:LEU:HB3	3:GB:219:LEU:HD23	1.89	0.54
2:GC:173:PRO:O	2:GC:390:ARG:NH2	2.40	0.54
2:GC:224:TYR:CE1	3:GD:325:MET:HG3	2.43	0.54
3:GD:11:GLN:O	3:GD:15:GLN:HG2	2.07	0.54
3:GF:11:GLN:O	3:GF:15:GLN:HG2	2.07	0.54
3:GF:217:LEU:HB3	3:GF:219:LEU:HD23	1.89	0.54
7:HF:502:TA1:H131	7:HF:502:TA1:H381	1.90	0.54
3:IF:416:MET:O	3:IF:420:GLU:HG2	2.07	0.54
3:JB:217:LEU:HB3	3:JB:219:LEU:HD23	1.89	0.54
3:JF:11:GLN:O	3:JF:15:GLN:HG2	2.07	0.54
2:KA:139:HIS:ND1	2:KA:146:GLY:O	2.41	0.54
3:KB:11:GLN:O	3:KB:15:GLN:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:119:LEU:HA	3:KB:122:VAL:HG12	1.90	0.54
3:LB:136:GLN:OE1	3:LB:136:GLN:N	2.35	0.54
3:LB:320:ARG:HG2	3:LB:359:PRO:HA	1.88	0.54
3:LD:320:ARG:HG2	3:LD:359:PRO:HA	1.88	0.54
3:LF:320:ARG:HG2	3:LF:359:PRO:HA	1.88	0.54
3:MB:238:VAL:HG23	3:MB:239:THR:HG23	1.89	0.54
2:MC:226:ASN:HA	2:MC:229:ARG:HE	1.72	0.54
3:MD:60:LYS:HE3	3:ND:283:TYR:HA	1.88	0.54
3:MD:136:GLN:OE1	3:MD:136:GLN:N	2.35	0.54
2:ME:226:ASN:HA	2:ME:229:ARG:HE	1.72	0.54
3:MF:11:GLN:O	3:MF:15:GLN:HG2	2.07	0.54
7:NB:502:TA1:H381	7:NB:502:TA1:H131	1.90	0.54
2:NC:226:ASN:HA	2:NC:229:ARG:HE	1.72	0.54
1:1A:95:VAL:HG12	1:1A:99:ILE:HD11	1.89	0.53
2:AC:429:GLU:O	2:AC:433:GLU:HG2	2.09	0.53
2:BA:139:HIS:ND1	2:BA:146:GLY:O	2.41	0.53
3:BD:11:GLN:O	3:BD:15:GLN:HG2	2.07	0.53
2:BE:118:VAL:HG21	2:BE:149:PHE:CZ	2.43	0.53
2:CC:118:VAL:HG21	2:CC:149:PHE:CZ	2.43	0.53
2:CE:118:VAL:HG21	2:CE:149:PHE:CZ	2.44	0.53
3:DB:416:MET:O	3:DB:420:GLU:HG2	2.07	0.53
2:DC:344:VAL:HG23	2:DC:346:TRP:HB2	1.89	0.53
2:DE:118:VAL:HG21	2:DE:149:PHE:CZ	2.43	0.53
3:DF:217:LEU:HB3	3:DF:219:LEU:HD23	1.89	0.53
3:EB:8:GLN:HE22	3:EB:65:ALA:HB1	1.72	0.53
2:FA:429:GLU:O	2:FA:433:GLU:HG2	2.09	0.53
2:FE:344:VAL:HG23	2:FE:346:TRP:HB2	1.89	0.53
2:GA:222:PRO:O	3:GB:326:LYS:NZ	2.41	0.53
2:GA:344:VAL:HG23	2:GA:346:TRP:HB2	1.89	0.53
3:GD:217:LEU:HB3	3:GD:219:LEU:HD23	1.89	0.53
2:GE:173:PRO:O	2:GE:390:ARG:NH2	2.40	0.53
2:GE:344:VAL:HG23	2:GE:346:TRP:HB2	1.88	0.53
3:GF:416:MET:O	3:GF:420:GLU:HG2	2.07	0.53
2:IA:76:ASP:OD2	3:IB:48:ARG:NH2	2.40	0.53
7:JB:502:TA1:H381	7:JB:502:TA1:H131	1.90	0.53
2:JC:139:HIS:ND1	2:JC:146:GLY:O	2.41	0.53
2:JC:173:PRO:O	2:JC:390:ARG:NH2	2.40	0.53
2:JC:207:GLU:HG3	2:JC:304:LYS:HE3	1.89	0.53
3:JD:217:LEU:HB3	3:JD:219:LEU:HD23	1.89	0.53
2:JE:173:PRO:O	2:JE:390:ARG:NH2	2.40	0.53
3:KF:8:GLN:HE22	3:KF:65:ALA:HB1	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LE:139:HIS:ND1	2:LE:146:GLY:O	2.41	0.53
2:MA:187:SER:O	2:MA:190:THR:OG1	2.23	0.53
2:ME:214:ARG:HH12	2:ME:220:GLU:HG2	1.72	0.53
3:MF:238:VAL:HG23	3:MF:239:THR:HG23	1.89	0.53
2:NA:429:GLU:O	2:NA:433:GLU:HG2	2.09	0.53
3:ND:8:GLN:HE22	3:ND:65:ALA:HB1	1.72	0.53
3:ND:320:ARG:HG2	3:ND:359:PRO:HA	1.88	0.53
7:ND:502:TA1:H381	7:ND:502:TA1:H131	1.90	0.53
2:NE:118:VAL:HG21	2:NE:149:PHE:CZ	2.43	0.53
1:1C:95:VAL:HG12	1:1C:99:ILE:HD11	1.89	0.53
2:AA:172:TYR:N	2:AA:204:VAL:O	2.27	0.53
2:AA:429:GLU:O	2:AA:433:GLU:HG2	2.09	0.53
2:AE:429:GLU:O	2:AE:433:GLU:HG2	2.09	0.53
3:AF:255:LEU:HD21	3:AF:318:ILE:HD11	1.91	0.53
2:BA:214:ARG:HH12	2:BA:220:GLU:HG2	1.72	0.53
2:BA:429:GLU:O	2:BA:433:GLU:HG2	2.09	0.53
3:BB:217:LEU:HB3	3:BB:219:LEU:HD23	1.89	0.53
2:BC:118:VAL:HG21	2:BC:149:PHE:CZ	2.44	0.53
3:BD:416:MET:O	3:BD:420:GLU:HG2	2.07	0.53
2:BE:214:ARG:HH12	2:BE:220:GLU:HG2	1.72	0.53
2:CA:118:VAL:HG21	2:CA:149:PHE:CZ	2.44	0.53
2:CA:344:VAL:HG23	2:CA:346:TRP:HB2	1.89	0.53
2:CC:344:VAL:HG23	2:CC:346:TRP:HB2	1.88	0.53
2:CC:401:LYS:HD3	3:CD:346:TRP:NE1	2.22	0.53
2:DC:118:VAL:HG21	2:DC:149:PHE:CZ	2.44	0.53
3:DF:11:GLN:O	3:DF:15:GLN:HG2	2.07	0.53
2:EE:344:VAL:HG23	2:EE:346:TRP:HB2	1.88	0.53
3:FB:119:LEU:HA	3:FB:122:VAL:HG12	1.90	0.53
3:FD:119:LEU:HA	3:FD:122:VAL:HG12	1.90	0.53
3:FF:119:LEU:HA	3:FF:122:VAL:HG12	1.90	0.53
2:GA:173:PRO:O	2:GA:390:ARG:NH2	2.40	0.53
3:GD:416:MET:O	3:GD:420:GLU:HG2	2.07	0.53
2:HA:139:HIS:ND1	2:HA:146:GLY:O	2.41	0.53
7:HD:502:TA1:H381	7:HD:502:TA1:H131	1.90	0.53
2:IA:173:PRO:O	2:IA:390:ARG:NH2	2.40	0.53
2:IA:429:GLU:O	2:IA:433:GLU:HG2	2.09	0.53
7:IB:502:TA1:H131	7:IB:502:TA1:H381	1.90	0.53
2:IC:429:GLU:O	2:IC:433:GLU:HG2	2.09	0.53
7:ID:502:TA1:H381	7:ID:502:TA1:H131	1.90	0.53
2:IE:429:GLU:O	2:IE:433:GLU:HG2	2.09	0.53
2:JA:173:PRO:O	2:JA:390:ARG:NH2	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:255:LEU:HD21	3:JD:318:ILE:HD11	1.91	0.53
3:JF:217:LEU:HB3	3:JF:219:LEU:HD23	1.89	0.53
2:KA:222:PRO:HG2	3:KB:326:LYS:HZ1	1.74	0.53
3:KB:416:MET:O	3:KB:420:GLU:HG2	2.07	0.53
3:KD:416:MET:O	3:KD:420:GLU:HG2	2.07	0.53
2:LA:429:GLU:O	2:LA:433:GLU:HG2	2.09	0.53
3:LB:255:LEU:HD21	3:LB:318:ILE:HD11	1.91	0.53
2:LC:190:THR:O	2:LC:193:THR:OG1	2.22	0.53
3:LD:255:LEU:HD21	3:LD:318:ILE:HD11	1.91	0.53
2:LE:429:GLU:O	2:LE:433:GLU:HG2	2.09	0.53
3:LF:255:LEU:HD21	3:LF:318:ILE:HD11	1.91	0.53
2:MA:139:HIS:ND1	2:MA:146:GLY:O	2.41	0.53
3:MB:255:LEU:HD21	3:MB:318:ILE:HD11	1.91	0.53
3:MD:255:LEU:HD21	3:MD:318:ILE:HD11	1.91	0.53
3:MF:136:GLN:OE1	3:MF:136:GLN:N	2.35	0.53
2:NA:207:GLU:HG3	2:NA:304:LYS:HE3	1.89	0.53
3:NB:255:LEU:HD21	3:NB:318:ILE:HD11	1.91	0.53
2:NC:207:GLU:HG3	2:NC:304:LYS:HE3	1.89	0.53
3:ND:255:LEU:HD21	3:ND:318:ILE:HD11	1.91	0.53
2:NE:429:GLU:O	2:NE:433:GLU:HG2	2.09	0.53
3:NF:238:VAL:HG23	3:NF:239:THR:HG23	1.89	0.53
1:1C:62:ASN:HB2	1:1C:78:HIS:CE1	2.39	0.53
1:1E:78:HIS:CD2	1:1E:82:LYS:CE	2.90	0.53
2:AC:172:TYR:N	2:AC:204:VAL:O	2.27	0.53
3:AD:255:LEU:HD21	3:AD:318:ILE:HD11	1.91	0.53
3:BB:11:GLN:O	3:BB:15:GLN:HG2	2.07	0.53
3:BB:403:ALA:HB2	2:BC:346:TRP:CH2	2.43	0.53
2:BC:100:ALA:HA	3:BD:254:LYS:CD	2.33	0.53
2:BC:429:GLU:O	2:BC:433:GLU:HG2	2.09	0.53
2:BE:429:GLU:O	2:BE:433:GLU:HG2	2.09	0.53
3:CB:394:GLN:HE22	2:CC:348:PRO:CG	2.21	0.53
2:DA:118:VAL:HG21	2:DA:149:PHE:CZ	2.44	0.53
2:DA:344:VAL:HG23	2:DA:346:TRP:HB2	1.88	0.53
2:EA:187:SER:O	2:EA:190:THR:OG1	2.23	0.53
2:EA:429:GLU:O	2:EA:433:GLU:HG2	2.09	0.53
2:EE:394:LYS:CD	3:EF:348:PRO:HG3	2.38	0.53
2:FE:429:GLU:O	2:FE:433:GLU:HG2	2.09	0.53
2:GA:429:GLU:O	2:GA:433:GLU:HG2	2.09	0.53
3:GB:119:LEU:HA	3:GB:122:VAL:HG12	1.90	0.53
2:GC:429:GLU:O	2:GC:433:GLU:HG2	2.09	0.53
2:GE:401:LYS:HD3	3:GF:346:TRP:CZ2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:139:HIS:ND1	2:HE:146:GLY:O	2.41	0.53
3:IB:255:LEU:HD21	3:IB:318:ILE:HD11	1.91	0.53
3:IB:416:MET:O	3:IB:420:GLU:HG2	2.07	0.53
3:ID:416:MET:O	3:ID:420:GLU:HG2	2.07	0.53
2:IE:173:PRO:O	2:IE:390:ARG:NH2	2.40	0.53
2:JA:207:GLU:HG3	2:JA:304:LYS:HE3	1.89	0.53
2:JE:139:HIS:ND1	2:JE:146:GLY:O	2.41	0.53
2:JE:207:GLU:HG3	2:JE:304:LYS:HE3	1.89	0.53
3:JF:255:LEU:HD21	3:JF:318:ILE:HD11	1.91	0.53
3:KB:255:LEU:HD21	3:KB:318:ILE:HD11	1.91	0.53
2:KC:173:PRO:O	2:KC:390:ARG:NH2	2.40	0.53
2:KE:207:GLU:HG3	2:KE:304:LYS:HE3	1.89	0.53
3:KF:416:MET:O	3:KF:420:GLU:HG2	2.07	0.53
2:LC:429:GLU:O	2:LC:433:GLU:HG2	2.09	0.53
3:LF:8:GLN:HE22	3:LF:65:ALA:HB1	1.72	0.53
2:MA:226:ASN:HA	2:MA:229:ARG:HE	1.72	0.53
3:MB:8:GLN:HE22	3:MB:65:ALA:HB1	1.72	0.53
3:MB:416:MET:O	3:MB:420:GLU:HG2	2.07	0.53
3:MF:255:LEU:HD21	3:MF:318:ILE:HD11	1.91	0.53
2:NA:187:SER:O	2:NA:190:THR:OG1	2.23	0.53
2:NC:187:SER:O	2:NC:190:THR:OG1	2.23	0.53
3:NF:8:GLN:HE22	3:NF:65:ALA:HB1	1.72	0.53
3:NF:255:LEU:HD21	3:NF:318:ILE:HD11	1.91	0.53
7:NF:502:TA1:H381	7:NF:502:TA1:H131	1.90	0.53
3:AB:255:LEU:HD21	3:AB:318:ILE:HD11	1.91	0.53
3:AB:416:MET:O	3:AB:420:GLU:HG2	2.07	0.53
2:AC:118:VAL:HG21	2:AC:149:PHE:CZ	2.44	0.53
2:BA:118:VAL:HG21	2:BA:149:PHE:CZ	2.44	0.53
2:BA:344:VAL:HG23	2:BA:346:TRP:HB2	1.88	0.53
3:BF:416:MET:O	3:BF:420:GLU:HG2	2.07	0.53
2:CA:187:SER:O	2:CA:190:THR:OG1	2.23	0.53
3:CB:217:LEU:HB3	3:CB:219:LEU:HD23	1.89	0.53
2:CC:429:GLU:O	2:CC:433:GLU:HG2	2.09	0.53
3:CD:217:LEU:HB3	3:CD:219:LEU:HD23	1.89	0.53
2:CE:429:GLU:O	2:CE:433:GLU:HG2	2.09	0.53
3:CF:217:LEU:HB3	3:CF:219:LEU:HD23	1.89	0.53
2:DA:429:GLU:O	2:DA:433:GLU:HG2	2.09	0.53
2:DC:105:ARG:HH12	3:DD:253:ARG:HD2	1.74	0.53
2:EC:429:GLU:O	2:EC:433:GLU:HG2	2.09	0.53
2:EE:429:GLU:O	2:EE:433:GLU:HG2	2.09	0.53
3:EF:8:GLN:HE22	3:EF:65:ALA:HB1	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:429:GLU:O	2:FC:433:GLU:HG2	2.09	0.53
3:GB:416:MET:O	3:GB:420:GLU:HG2	2.07	0.53
2:GC:344:VAL:HG23	2:GC:346:TRP:HB2	1.89	0.53
2:HA:204:VAL:HG13	2:HA:302:MET:HE2	1.91	0.53
3:HB:119:LEU:HA	3:HB:122:VAL:HG12	1.90	0.53
2:HC:139:HIS:ND1	2:HC:146:GLY:O	2.41	0.53
3:HF:119:LEU:HA	3:HF:122:VAL:HG12	1.90	0.53
2:IC:173:PRO:O	2:IC:390:ARG:NH2	2.40	0.53
3:ID:255:LEU:HD21	3:ID:318:ILE:HD11	1.91	0.53
2:IE:190:THR:O	2:IE:193:THR:OG1	2.22	0.53
3:IF:255:LEU:HD21	3:IF:318:ILE:HD11	1.91	0.53
2:JA:139:HIS:ND1	2:JA:146:GLY:O	2.41	0.53
3:JB:255:LEU:HD21	3:JB:318:ILE:HD11	1.91	0.53
3:KD:255:LEU:HD21	3:KD:318:ILE:HD11	1.91	0.53
2:KE:173:PRO:O	2:KE:390:ARG:NH2	2.40	0.53
2:MA:429:GLU:O	2:MA:433:GLU:HG2	2.09	0.53
2:MC:429:GLU:O	2:MC:433:GLU:HG2	2.09	0.53
2:ME:105:ARG:NH1	3:MF:253:ARG:HD2	2.16	0.53
2:ME:222:PRO:HG2	3:MF:326:LYS:HZ1	1.73	0.53
2:ME:429:GLU:O	2:ME:433:GLU:HG2	2.09	0.53
2:NC:118:VAL:HG21	2:NC:149:PHE:CZ	2.43	0.53
2:NC:429:GLU:O	2:NC:433:GLU:HG2	2.09	0.53
1:1A:78:HIS:CD2	1:1A:82:LYS:CE	2.90	0.53
2:AA:118:VAL:HG21	2:AA:149:PHE:CZ	2.44	0.53
3:AF:416:MET:O	3:AF:420:GLU:HG2	2.07	0.53
2:BC:344:VAL:HG23	2:BC:346:TRP:HB2	1.88	0.53
2:BE:344:VAL:HG23	2:BE:346:TRP:HB2	1.88	0.53
2:CA:204:VAL:HG13	2:CA:302:MET:HE2	1.91	0.53
2:CA:429:GLU:O	2:CA:433:GLU:HG2	2.09	0.53
2:CC:204:VAL:HG13	2:CC:302:MET:HE2	1.91	0.53
2:CE:204:VAL:HG13	2:CE:302:MET:HE2	1.91	0.53
2:DA:394:LYS:HZ3	3:DB:348:PRO:HG3	1.74	0.53
2:DC:429:GLU:O	2:DC:433:GLU:HG2	2.09	0.53
2:EC:118:VAL:HG21	2:EC:149:PHE:CZ	2.44	0.53
3:ED:8:GLN:HE22	3:ED:65:ALA:HB1	1.72	0.53
2:FA:89:PRO:HD2	2:GA:280:LYS:NZ	2.24	0.53
2:GE:429:GLU:O	2:GE:433:GLU:HG2	2.09	0.53
2:HA:429:GLU:O	2:HA:433:GLU:HG2	2.09	0.53
3:HB:136:GLN:OE1	3:HB:136:GLN:N	2.35	0.53
7:HB:502:TA1:H381	7:HB:502:TA1:H131	1.90	0.53
2:HC:204:VAL:HG13	2:HC:302:MET:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:204:VAL:HG13	2:HE:302:MET:HE2	1.91	0.53
2:HE:429:GLU:O	2:HE:433:GLU:HG2	2.09	0.53
3:HF:217:LEU:HB3	3:HF:219:LEU:HD23	1.89	0.53
2:IA:139:HIS:ND1	2:IA:146:GLY:O	2.41	0.53
3:IB:11:GLN:O	3:IB:15:GLN:HG2	2.07	0.53
2:IE:139:HIS:ND1	2:IE:146:GLY:O	2.41	0.53
2:IE:407:TRP:HH2	3:IF:260:VAL:O	1.91	0.53
3:IF:11:GLN:O	3:IF:15:GLN:HG2	2.07	0.53
7:IF:502:TA1:H381	7:IF:502:TA1:H131	1.90	0.53
2:JA:221:ARG:HE	3:JB:324:SER:HB3	1.70	0.53
3:JB:12:CYS:O	3:JB:16:ILE:HG12	2.09	0.53
2:JC:429:GLU:O	2:JC:433:GLU:HG2	2.09	0.53
3:JD:12:CYS:O	3:JD:16:ILE:HG12	2.09	0.53
3:JF:12:CYS:O	3:JF:16:ILE:HG12	2.09	0.53
2:KC:207:GLU:HG3	2:KC:304:LYS:HE3	1.89	0.53
3:KF:255:LEU:HD21	3:KF:318:ILE:HD11	1.91	0.53
3:LB:12:CYS:O	3:LB:16:ILE:HG12	2.09	0.53
2:LC:401:LYS:CE	3:LD:346:TRP:HE1	2.22	0.53
3:LF:12:CYS:O	3:LF:16:ILE:HG12	2.09	0.53
3:MB:12:CYS:O	3:MB:16:ILE:HG12	2.09	0.53
3:MB:394:GLN:NE2	2:MC:348:PRO:HG2	2.21	0.53
2:MC:139:HIS:ND1	2:MC:146:GLY:O	2.41	0.53
3:MD:8:GLN:HE22	3:MD:65:ALA:HB1	1.72	0.53
3:MD:416:MET:O	3:MD:420:GLU:HG2	2.07	0.53
3:NB:320:ARG:HG2	3:NB:359:PRO:HA	1.88	0.53
3:NB:401:ARG:NH2	2:NC:345:ASP:OD2	2.39	0.53
2:NE:226:ASN:HA	2:NE:229:ARG:HE	1.72	0.53
1:1A:59:GLU:OE1	2:AA:311:LYS:HE2	2.08	0.53
1:1E:67:ASN:ND2	3:NF:115:VAL:HG13	2.23	0.53
2:AC:139:HIS:ND1	2:AC:146:GLY:O	2.41	0.53
2:AE:118:VAL:HG21	2:AE:149:PHE:CZ	2.44	0.53
2:AE:204:VAL:HG13	2:AE:302:MET:HE2	1.91	0.53
3:BB:416:MET:O	3:BB:420:GLU:HG2	2.07	0.53
3:BF:212:ILE:O	3:BF:216:THR:OG1	2.23	0.53
3:CB:119:LEU:HA	3:CB:122:VAL:HG12	1.90	0.53
3:CF:416:MET:O	3:CF:420:GLU:HG2	2.07	0.53
3:DD:401:ARG:HD2	2:DE:346:TRP:CH2	2.44	0.53
2:DE:100:ALA:O	3:DF:257:VAL:HG11	2.08	0.53
2:DE:429:GLU:O	2:DE:433:GLU:HG2	2.09	0.53
7:DF:502:TA1:H381	7:DF:502:TA1:H131	1.90	0.53
3:EB:119:LEU:HA	3:EB:122:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:403:ALA:HB2	2:EC:346:TRP:CH2	2.43	0.53
2:EC:344:VAL:HG23	2:EC:346:TRP:HB2	1.89	0.53
2:EE:118:VAL:HG21	2:EE:149:PHE:CZ	2.44	0.53
3:EF:119:LEU:HA	3:EF:122:VAL:HG12	1.90	0.53
3:FB:189:LEU:O	3:FB:193:GLN:NE2	2.36	0.53
7:FD:502:TA1:H381	7:FD:502:TA1:H131	1.90	0.53
2:FE:100:ALA:O	3:FF:257:VAL:HG11	2.09	0.53
7:FF:502:TA1:H381	7:FF:502:TA1:H131	1.90	0.53
2:GA:207:GLU:HG3	2:GA:304:LYS:HE3	1.89	0.53
2:GC:207:GLU:HG3	2:GC:304:LYS:HE3	1.89	0.53
2:GE:168:GLU:O	2:GE:202:PHE:N	2.31	0.53
2:GE:207:GLU:HG3	2:GE:304:LYS:HE3	1.89	0.53
3:GF:119:LEU:HA	3:GF:122:VAL:HG12	1.90	0.53
3:HB:217:LEU:HB3	3:HB:219:LEU:HD23	1.89	0.53
2:HC:429:GLU:O	2:HC:433:GLU:HG2	2.09	0.53
2:IA:207:GLU:HG3	2:IA:304:LYS:HE3	1.89	0.53
3:IB:12:CYS:O	3:IB:16:ILE:HG12	2.09	0.53
3:IB:217:LEU:HB3	3:IB:219:LEU:HD23	1.89	0.53
3:ID:11:GLN:O	3:ID:15:GLN:HG2	2.07	0.53
3:ID:12:CYS:O	3:ID:16:ILE:HG12	2.09	0.53
3:IF:119:LEU:HA	3:IF:122:VAL:HG12	1.90	0.53
2:JA:429:GLU:O	2:JA:433:GLU:HG2	2.09	0.53
2:JE:429:GLU:O	2:JE:433:GLU:HG2	2.09	0.53
2:KA:173:PRO:O	2:KA:390:ARG:NH2	2.40	0.53
2:KA:429:GLU:O	2:KA:433:GLU:HG2	2.09	0.53
2:LA:190:THR:O	2:LA:193:THR:OG1	2.22	0.53
3:LD:12:CYS:O	3:LD:16:ILE:HG12	2.09	0.53
2:MA:118:VAL:HG21	2:MA:149:PHE:CZ	2.44	0.53
2:MA:400:ALA:CB	3:MB:346:TRP:HH2	2.08	0.53
2:ME:139:HIS:ND1	2:ME:146:GLY:O	2.41	0.53
2:NA:118:VAL:HG21	2:NA:149:PHE:CZ	2.43	0.53
3:AD:416:MET:O	3:AD:420:GLU:HG2	2.07	0.53
2:AE:172:TYR:N	2:AE:204:VAL:O	2.27	0.53
3:AF:182:VAL:O	3:AF:182:VAL:HG12	2.09	0.53
3:BB:212:ILE:O	3:BB:216:THR:OG1	2.23	0.53
3:BD:221:THR:HA	2:BE:326:LYS:HZ3	1.74	0.53
3:CB:182:VAL:O	3:CB:182:VAL:HG12	2.09	0.53
3:CB:416:MET:O	3:CB:420:GLU:HG2	2.07	0.53
3:CD:416:MET:O	3:CD:420:GLU:HG2	2.07	0.53
2:EA:204:VAL:HG13	2:EA:302:MET:HE2	1.91	0.53
2:EC:204:VAL:HG13	2:EC:302:MET:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ED:119:LEU:HA	3:ED:122:VAL:HG12	1.90	0.53
3:FB:416:MET:O	3:FB:420:GLU:HG2	2.07	0.53
3:FF:416:MET:O	3:FF:420:GLU:HG2	2.07	0.53
2:HA:207:GLU:HG3	2:HA:304:LYS:HE3	1.89	0.53
3:HB:182:VAL:O	3:HB:182:VAL:HG12	2.09	0.53
3:HD:119:LEU:HA	3:HD:122:VAL:HG12	1.90	0.53
3:HD:182:VAL:O	3:HD:182:VAL:HG12	2.09	0.53
2:IC:207:GLU:HG3	2:IC:304:LYS:HE3	1.89	0.53
3:ID:119:LEU:HA	3:ID:122:VAL:HG12	1.90	0.53
3:IF:12:CYS:O	3:IF:16:ILE:HG12	2.09	0.53
2:KA:207:GLU:HG3	2:KA:304:LYS:HE3	1.89	0.53
2:KC:100:ALA:O	3:KD:257:VAL:HG21	2.08	0.53
3:LB:221:THR:HA	2:LC:326:LYS:HZ3	1.73	0.53
3:LD:8:GLN:HE22	3:LD:65:ALA:HB1	1.72	0.53
2:ME:118:VAL:HG21	2:ME:149:PHE:CZ	2.44	0.53
3:MF:182:VAL:O	3:MF:182:VAL:HG12	2.09	0.53
2:NA:139:HIS:ND1	2:NA:146:GLY:O	2.41	0.53
1:1B:61:HIS:CE1	2:AC:342:GLN:H	2.27	0.53
2:AA:139:HIS:ND1	2:AA:146:GLY:O	2.41	0.53
2:AA:204:VAL:HG13	2:AA:302:MET:HE2	1.91	0.53
2:AC:204:VAL:HG13	2:AC:302:MET:HE2	1.91	0.53
2:AC:310:GLY:HA3	2:AC:383:ALA:HB2	1.91	0.53
3:AD:12:CYS:O	3:AD:16:ILE:HG12	2.09	0.53
3:AD:182:VAL:O	3:AD:182:VAL:HG12	2.09	0.53
3:BB:255:LEU:HD21	3:BB:318:ILE:HD11	1.91	0.53
3:BD:212:ILE:O	3:BD:216:THR:OG1	2.23	0.53
3:BF:255:LEU:HD21	3:BF:318:ILE:HD11	1.90	0.53
2:CA:105:ARG:HH12	3:CB:253:ARG:HD2	1.73	0.53
3:CB:255:LEU:HD21	3:CB:318:ILE:HD11	1.91	0.53
3:CD:119:LEU:HA	3:CD:122:VAL:HG12	1.90	0.53
3:CF:182:VAL:O	3:CF:182:VAL:HG12	2.09	0.53
3:DD:212:ILE:O	3:DD:216:THR:OG1	2.23	0.53
2:EE:187:SER:O	2:EE:190:THR:OG1	2.23	0.53
7:FB:502:TA1:H381	7:FB:502:TA1:H131	1.90	0.53
3:FD:416:MET:O	3:FD:420:GLU:HG2	2.07	0.53
3:GD:119:LEU:HA	3:GD:122:VAL:HG12	1.90	0.53
2:HA:173:PRO:O	2:HA:390:ARG:NH2	2.40	0.53
2:HC:173:PRO:O	2:HC:390:ARG:NH2	2.40	0.53
2:HC:207:GLU:HG3	2:HC:304:LYS:HE3	1.89	0.53
3:HD:136:GLN:OE1	3:HD:136:GLN:N	2.35	0.53
3:HD:212:ILE:O	3:HD:216:THR:OG1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:182:VAL:O	3:HF:182:VAL:HG12	2.09	0.53
2:IA:190:THR:O	2:IA:193:THR:OG1	2.22	0.53
2:IC:139:HIS:ND1	2:IC:146:GLY:O	2.41	0.53
2:JA:204:VAL:HG13	2:JA:302:MET:HE2	1.91	0.53
2:KC:204:VAL:HG13	2:KC:302:MET:HE2	1.91	0.53
2:KC:429:GLU:O	2:KC:433:GLU:HG2	2.09	0.53
3:KD:136:GLN:OE1	3:KD:136:GLN:N	2.35	0.53
2:KE:204:VAL:HG13	2:KE:302:MET:HE2	1.91	0.53
2:KE:224:TYR:HE1	3:KF:325:MET:HG3	1.70	0.53
3:LB:8:GLN:HE22	3:LB:65:ALA:HB1	1.72	0.53
2:LC:207:GLU:HG3	2:LC:304:LYS:HE3	1.89	0.53
2:MA:168:GLU:O	2:MA:202:PHE:N	2.31	0.53
2:MC:118:VAL:HG21	2:MC:149:PHE:CZ	2.44	0.53
2:MC:204:VAL:HG13	2:MC:302:MET:HE2	1.91	0.53
3:MD:12:CYS:O	3:MD:16:ILE:HG12	2.09	0.53
3:MD:182:VAL:O	3:MD:182:VAL:HG12	2.09	0.53
2:ME:190:THR:O	2:ME:193:THR:OG1	2.22	0.53
3:MF:8:GLN:HE22	3:MF:65:ALA:HB1	1.72	0.53
1:1E:30:SER:OG	1:1E:48:GLU:OE2	2.24	0.53
2:AA:310:GLY:HA3	2:AA:383:ALA:HB2	1.91	0.53
3:AD:222:PRO:CD	2:AE:326:LYS:HZ3	2.17	0.53
2:AE:139:HIS:ND1	2:AE:146:GLY:O	2.41	0.53
3:BD:255:LEU:HD21	3:BD:318:ILE:HD11	1.91	0.53
7:BF:502:TA1:H381	7:BF:502:TA1:H131	1.90	0.53
3:CD:182:VAL:O	3:CD:182:VAL:HG12	2.09	0.53
3:CF:255:LEU:HD21	3:CF:318:ILE:HD11	1.91	0.53
3:DB:212:ILE:O	3:DB:216:THR:OG1	2.24	0.53
4:DC:501:GTP:O3G	3:DD:254:LYS:NZ	2.42	0.53
7:DD:502:TA1:H381	7:DD:502:TA1:H131	1.90	0.53
2:EA:118:VAL:HG21	2:EA:149:PHE:CZ	2.44	0.53
3:ED:88:ARG:HH12	3:FD:283:TYR:HB2	1.74	0.53
2:EE:204:VAL:HG13	2:EE:302:MET:HE2	1.91	0.53
3:FD:189:LEU:O	3:FD:193:GLN:NE2	2.36	0.53
2:FE:204:VAL:HG13	2:FE:302:MET:HE2	1.91	0.53
2:GC:168:GLU:O	2:GC:202:PHE:N	2.31	0.53
3:GD:12:CYS:O	3:GD:16:ILE:HG12	2.09	0.53
3:GF:12:CYS:O	3:GF:16:ILE:HG12	2.09	0.53
3:GF:255:LEU:HD21	3:GF:318:ILE:HD11	1.91	0.53
3:HD:217:LEU:HB3	3:HD:219:LEU:HD23	1.89	0.53
2:HE:173:PRO:O	2:HE:390:ARG:NH2	2.40	0.53
2:HE:207:GLU:HG3	2:HE:304:LYS:HE3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:119:LEU:HA	3:IB:122:VAL:HG12	1.90	0.53
2:IC:190:THR:O	2:IC:193:THR:OG1	2.22	0.53
3:ID:217:LEU:HB3	3:ID:219:LEU:HD23	1.89	0.53
2:IE:207:GLU:HG3	2:IE:304:LYS:HE3	1.89	0.53
2:JC:204:VAL:HG13	2:JC:302:MET:HE2	1.91	0.53
2:KA:404:PHE:CE2	3:KB:261:PRO:HA	2.44	0.53
3:KB:181:VAL:HG13	2:KC:349:THR:HG23	1.90	0.53
3:KD:182:VAL:O	3:KD:182:VAL:HG12	2.09	0.53
3:KD:403:ALA:CB	2:KE:346:TRP:CZ3	2.92	0.53
7:KD:502:TA1:H381	7:KD:502:TA1:H131	1.90	0.53
3:KF:182:VAL:O	3:KF:182:VAL:HG12	2.09	0.53
2:LA:168:GLU:O	2:LA:202:PHE:N	2.31	0.53
3:LF:119:LEU:HA	3:LF:122:VAL:HG12	1.90	0.53
2:MA:190:THR:O	2:MA:193:THR:OG1	2.22	0.53
3:MB:182:VAL:O	3:MB:182:VAL:HG12	2.09	0.53
2:MC:190:THR:O	2:MC:193:THR:OG1	2.22	0.53
2:ME:168:GLU:O	2:ME:202:PHE:N	2.31	0.53
2:ME:394:LYS:HZ3	2:ME:397:LEU:HD23	1.74	0.53
3:ND:119:LEU:HA	3:ND:122:VAL:HG12	1.90	0.53
1:1D:95:VAL:HG12	1:1D:99:ILE:HD11	1.89	0.53
1:1E:38:ARG:HG2	1:1E:102:CYS:SG	2.49	0.53
3:AB:12:CYS:O	3:AB:16:ILE:HG12	2.09	0.53
3:AB:182:VAL:O	3:AB:182:VAL:HG12	2.09	0.53
2:AE:187:SER:O	2:AE:190:THR:OG1	2.23	0.53
3:AF:12:CYS:O	3:AF:16:ILE:HG12	2.09	0.53
7:BB:502:TA1:H381	7:BB:502:TA1:H131	1.90	0.53
3:CD:255:LEU:HD21	3:CD:318:ILE:HD11	1.91	0.53
3:CF:119:LEU:HA	3:CF:122:VAL:HG12	1.90	0.53
7:DB:502:TA1:H381	7:DB:502:TA1:H131	1.90	0.53
3:DD:119:LEU:HA	3:DD:122:VAL:HG12	1.90	0.53
2:DE:187:SER:O	2:DE:190:THR:OG1	2.23	0.53
3:DF:119:LEU:HA	3:DF:122:VAL:HG12	1.90	0.53
2:EC:224:TYR:CE1	3:ED:325:MET:HG3	2.43	0.53
2:FA:118:VAL:HG21	2:FA:149:PHE:CZ	2.44	0.53
3:FB:182:VAL:HG12	3:FB:182:VAL:O	2.09	0.53
2:FC:204:VAL:HG13	2:FC:302:MET:HE2	1.91	0.53
3:FD:182:VAL:O	3:FD:182:VAL:HG12	2.09	0.53
3:FF:182:VAL:O	3:FF:182:VAL:HG12	2.09	0.53
3:GB:330:GLU:O	3:GB:334:ASN:ND2	2.21	0.53
3:GD:255:LEU:HD21	3:GD:318:ILE:HD11	1.91	0.53
3:HB:255:LEU:HD21	3:HB:318:ILE:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:101:ASN:HD22	2:HE:254:GLU:HG3	1.74	0.53
2:IE:56:THR:HB	2:JE:285:GLN:HB2	1.90	0.53
2:IE:118:VAL:HG21	2:IE:149:PHE:CZ	2.43	0.53
3:IF:217:LEU:HB3	3:IF:219:LEU:HD23	1.89	0.53
3:JB:182:VAL:O	3:JB:182:VAL:HG12	2.09	0.53
3:JD:182:VAL:O	3:JD:182:VAL:HG12	2.09	0.53
2:JE:204:VAL:HG13	2:JE:302:MET:HE2	1.91	0.53
2:JE:401:LYS:HE3	3:JF:346:TRP:HE1	1.74	0.53
3:JF:182:VAL:HG12	3:JF:182:VAL:O	2.09	0.53
2:KA:401:LYS:HZ2	3:KB:346:TRP:NE1	2.07	0.53
2:KE:394:LYS:HZ3	3:KF:348:PRO:HG3	1.74	0.53
2:KE:397:LEU:HD12	3:KF:346:TRP:CE3	2.44	0.53
2:KE:429:GLU:O	2:KE:433:GLU:HG2	2.09	0.53
7:KF:502:TA1:H381	7:KF:502:TA1:H131	1.90	0.53
2:LA:88:HIS:CD2	2:MA:284:GLU:OE2	2.62	0.53
2:LA:207:GLU:HG3	2:LA:304:LYS:HE3	1.89	0.53
3:LD:119:LEU:HA	3:LD:122:VAL:HG12	1.90	0.53
2:ME:204:VAL:HG13	2:ME:302:MET:HE2	1.91	0.53
3:MF:12:CYS:O	3:MF:16:ILE:HG12	2.09	0.53
3:MF:416:MET:O	3:MF:420:GLU:HG2	2.07	0.53
3:NB:57:THR:O	3:NB:60:LYS:NZ	2.42	0.53
2:NC:139:HIS:ND1	2:NC:146:GLY:O	2.41	0.53
2:NE:139:HIS:ND1	2:NE:146:GLY:O	2.41	0.53
2:AE:310:GLY:HA3	2:AE:383:ALA:HB2	1.91	0.52
2:BA:419:SER:O	2:BA:422:ARG:HD3	2.10	0.52
2:BC:394:LYS:HZ3	2:BC:397:LEU:HD23	1.74	0.52
3:BD:119:LEU:HA	3:BD:122:VAL:HG12	1.90	0.52
2:BE:419:SER:O	2:BE:422:ARG:HD3	2.10	0.52
3:BF:119:LEU:HA	3:BF:122:VAL:HG12	1.90	0.52
2:CE:89:PRO:HD2	2:DE:280:LYS:HZ3	1.73	0.52
2:CE:214:ARG:HH12	2:CE:220:GLU:HG2	1.72	0.52
2:DC:187:SER:O	2:DC:190:THR:OG1	2.23	0.52
3:DF:182:VAL:O	3:DF:182:VAL:HG12	2.09	0.52
3:DF:212:ILE:O	3:DF:216:THR:OG1	2.23	0.52
3:EB:116:ASP:OD2	3:EB:117:SER:N	2.43	0.52
3:EF:116:ASP:OD2	3:EF:117:SER:N	2.43	0.52
2:FA:204:VAL:HG13	2:FA:302:MET:HE2	1.91	0.52
2:FE:89:PRO:HD2	2:GE:280:LYS:NZ	2.24	0.52
2:FE:118:VAL:HG21	2:FE:149:PHE:CZ	2.44	0.52
3:GB:12:CYS:O	3:GB:16:ILE:HG12	2.09	0.52
2:IA:419:SER:O	2:IA:422:ARG:HD3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:182:VAL:O	3:IB:182:VAL:HG12	2.09	0.52
2:IC:118:VAL:HG21	2:IC:149:PHE:CZ	2.44	0.52
2:IC:397:LEU:HD12	3:ID:346:TRP:CZ3	2.45	0.52
2:IE:204:VAL:HG13	2:IE:302:MET:HE2	1.91	0.52
3:IF:182:VAL:O	3:IF:182:VAL:HG12	2.09	0.52
3:JF:116:ASP:OD2	3:JF:117:SER:N	2.43	0.52
2:KA:419:SER:O	2:KA:422:ARG:HD3	2.10	0.52
2:KE:118:VAL:HG21	2:KE:149:PHE:CZ	2.44	0.52
2:KE:419:SER:O	2:KE:422:ARG:HD3	2.10	0.52
2:LA:118:VAL:HG21	2:LA:149:PHE:CZ	2.44	0.52
3:LB:116:ASP:OD2	3:LB:117:SER:N	2.43	0.52
3:LD:116:ASP:OD2	3:LD:117:SER:N	2.43	0.52
3:LD:394:GLN:HE22	2:LE:348:PRO:HG2	1.74	0.52
2:LE:118:VAL:HG21	2:LE:149:PHE:CZ	2.43	0.52
2:LE:207:GLU:HG3	2:LE:304:LYS:HE3	1.89	0.52
3:LF:116:ASP:OD2	3:LF:117:SER:N	2.43	0.52
2:MA:204:VAL:HG13	2:MA:302:MET:HE2	1.91	0.52
2:MC:168:GLU:O	2:MC:202:PHE:N	2.31	0.52
3:MD:60:LYS:CE	3:ND:283:TYR:HA	2.38	0.52
2:NA:310:GLY:HA3	2:NA:383:ALA:HB2	1.91	0.52
3:NB:119:LEU:HA	3:NB:122:VAL:HG12	1.90	0.52
3:ND:182:VAL:O	3:ND:182:VAL:HG12	2.09	0.52
2:NE:310:GLY:HA3	2:NE:383:ALA:HB2	1.91	0.52
2:NE:400:ALA:HB3	3:NF:346:TRP:HH2	1.74	0.52
3:NF:116:ASP:OD2	3:NF:117:SER:N	2.43	0.52
3:NF:119:LEU:HA	3:NF:122:VAL:HG12	1.90	0.52
3:NF:182:VAL:O	3:NF:182:VAL:HG12	2.09	0.52
1:1A:98:LYS:HB2	1:1A:106:VAL:HG11	1.91	0.52
1:1D:98:LYS:HB2	1:1D:106:VAL:HG11	1.91	0.52
2:AC:190:THR:O	2:AC:193:THR:OG1	2.22	0.52
2:AE:419:SER:O	2:AE:422:ARG:HD3	2.10	0.52
2:BC:419:SER:O	2:BC:422:ARG:HD3	2.10	0.52
7:BD:502:TA1:H381	7:BD:502:TA1:H131	1.90	0.52
2:CA:214:ARG:HH12	2:CA:220:GLU:HG2	1.72	0.52
3:DB:119:LEU:HA	3:DB:122:VAL:HG12	1.90	0.52
3:DD:57:THR:O	3:DD:60:LYS:NZ	2.42	0.52
3:ED:116:ASP:OD2	3:ED:117:SER:N	2.43	0.52
2:FC:118:VAL:HG21	2:FC:149:PHE:CZ	2.44	0.52
4:FE:501:GTP:PG	3:FF:254:LYS:HZ1	2.32	0.52
3:FF:189:LEU:O	3:FF:193:GLN:NE2	2.36	0.52
3:GB:182:VAL:O	3:GB:182:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:255:LEU:HD21	3:GB:318:ILE:HD11	1.91	0.52
2:GE:310:GLY:HA3	2:GE:383:ALA:HB2	1.91	0.52
2:HA:419:SER:O	2:HA:422:ARG:HD3	2.10	0.52
2:HC:419:SER:O	2:HC:422:ARG:HD3	2.10	0.52
2:HE:419:SER:O	2:HE:422:ARG:HD3	2.10	0.52
3:HF:212:ILE:O	3:HF:216:THR:OG1	2.23	0.52
2:IC:107:HIS:ND1	2:IC:151:SER:OG	2.43	0.52
2:IC:204:VAL:HG13	2:IC:302:MET:HE2	1.91	0.52
2:IC:419:SER:O	2:IC:422:ARG:HD3	2.10	0.52
3:ID:182:VAL:O	3:ID:182:VAL:HG12	2.09	0.52
2:IE:419:SER:O	2:IE:422:ARG:HD3	2.10	0.52
2:JA:419:SER:O	2:JA:422:ARG:HD3	2.10	0.52
3:JB:116:ASP:OD2	3:JB:117:SER:N	2.42	0.52
2:JC:419:SER:O	2:JC:422:ARG:HD3	2.10	0.52
3:JD:116:ASP:OD2	3:JD:117:SER:N	2.43	0.52
2:JE:419:SER:O	2:JE:422:ARG:HD3	2.10	0.52
2:KA:118:VAL:HG21	2:KA:149:PHE:CZ	2.43	0.52
2:KA:204:VAL:HG13	2:KA:302:MET:HE2	1.91	0.52
3:KB:182:VAL:O	3:KB:182:VAL:HG12	2.09	0.52
7:KB:502:TA1:H381	7:KB:502:TA1:H131	1.90	0.52
2:KC:118:VAL:HG21	2:KC:149:PHE:CZ	2.44	0.52
2:KE:180:ALA:HB1	3:KF:258:ASN:OD1	2.09	0.52
2:LA:419:SER:O	2:LA:422:ARG:HD3	2.10	0.52
3:LB:119:LEU:HA	3:LB:122:VAL:HG12	1.90	0.52
3:LB:182:VAL:O	3:LB:182:VAL:HG12	2.09	0.52
2:LC:118:VAL:HG21	2:LC:149:PHE:CZ	2.44	0.52
2:LC:419:SER:O	2:LC:422:ARG:HD3	2.10	0.52
3:LD:57:THR:O	3:LD:60:LYS:NZ	2.42	0.52
3:LD:182:VAL:HG12	3:LD:182:VAL:O	2.09	0.52
2:LE:419:SER:O	2:LE:422:ARG:HD3	2.10	0.52
3:LF:57:THR:O	3:LF:60:LYS:NZ	2.42	0.52
2:MA:207:GLU:HG3	2:MA:304:LYS:HE3	1.89	0.52
2:MA:310:GLY:HA3	2:MA:383:ALA:HB2	1.91	0.52
2:MC:207:GLU:HG3	2:MC:304:LYS:HE3	1.89	0.52
2:ME:310:GLY:HA3	2:ME:383:ALA:HB2	1.91	0.52
2:NA:419:SER:O	2:NA:422:ARG:HD3	2.10	0.52
3:NB:116:ASP:OD2	3:NB:117:SER:N	2.43	0.52
3:NB:182:VAL:HG12	3:NB:182:VAL:O	2.09	0.52
2:NC:310:GLY:HA3	2:NC:383:ALA:HB2	1.91	0.52
2:NC:419:SER:O	2:NC:422:ARG:HD3	2.10	0.52
3:ND:116:ASP:OD2	3:ND:117:SER:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1C:98:LYS:HB2	1:1C:106:VAL:HG11	1.91	0.52
2:AA:419:SER:O	2:AA:422:ARG:HD3	2.10	0.52
2:AC:419:SER:O	2:AC:422:ARG:HD3	2.10	0.52
3:BB:119:LEU:HA	3:BB:122:VAL:HG12	1.90	0.52
3:BD:57:THR:O	3:BD:60:LYS:NZ	2.42	0.52
2:CA:89:PRO:HD2	2:DA:280:LYS:HZ3	1.74	0.52
2:CA:310:GLY:HA3	2:CA:383:ALA:HB2	1.91	0.52
3:CB:116:ASP:OD2	3:CB:117:SER:N	2.43	0.52
2:CC:214:ARG:HH12	2:CC:220:GLU:HG2	1.72	0.52
2:CC:310:GLY:HA3	2:CC:383:ALA:HB2	1.91	0.52
3:CD:116:ASP:OD2	3:CD:117:SER:N	2.43	0.52
2:CE:310:GLY:HA3	2:CE:383:ALA:HB2	1.91	0.52
3:DD:182:VAL:HG12	3:DD:182:VAL:O	2.09	0.52
2:EA:203:MET:N	2:EA:203:MET:SD	2.83	0.52
2:EA:310:GLY:HA3	2:EA:383:ALA:HB2	1.90	0.52
3:EB:182:VAL:O	3:EB:182:VAL:HG12	2.09	0.52
2:EC:419:SER:O	2:EC:422:ARG:HD3	2.10	0.52
3:ED:182:VAL:O	3:ED:182:VAL:HG12	2.09	0.52
3:ED:255:LEU:HD21	3:ED:318:ILE:HD11	1.91	0.52
2:EE:203:MET:SD	2:EE:203:MET:N	2.83	0.52
2:EE:419:SER:O	2:EE:422:ARG:HD3	2.10	0.52
3:GF:182:VAL:O	3:GF:182:VAL:HG12	2.09	0.52
3:HB:116:ASP:OD2	3:HB:117:SER:N	2.43	0.52
2:HC:118:VAL:HG21	2:HC:149:PHE:CZ	2.44	0.52
3:HD:116:ASP:OD2	3:HD:117:SER:N	2.43	0.52
3:HD:255:LEU:HD21	3:HD:318:ILE:HD11	1.91	0.52
2:HE:118:VAL:HG21	2:HE:149:PHE:CZ	2.44	0.52
3:HF:116:ASP:OD2	3:HF:117:SER:N	2.43	0.52
3:HF:255:LEU:HD21	3:HF:318:ILE:HD11	1.91	0.52
2:IA:204:VAL:HG13	2:IA:302:MET:HE2	1.91	0.52
2:IE:407:TRP:CH2	3:IF:260:VAL:O	2.63	0.52
3:JB:394:GLN:NE2	2:JC:348:PRO:HG2	2.22	0.52
2:KC:419:SER:O	2:KC:422:ARG:HD3	2.10	0.52
3:KF:136:GLN:OE1	3:KF:136:GLN:N	2.35	0.52
2:LA:204:VAL:HG13	2:LA:302:MET:HE2	1.91	0.52
2:LA:401:LYS:CD	3:LB:346:TRP:HE1	2.17	0.52
2:LC:168:GLU:O	2:LC:202:PHE:N	2.31	0.52
2:LC:204:VAL:HG13	2:LC:302:MET:HE2	1.91	0.52
3:LF:182:VAL:O	3:LF:182:VAL:HG12	2.09	0.52
2:MA:203:MET:N	2:MA:203:MET:SD	2.83	0.52
2:MA:419:SER:O	2:MA:422:ARG:HD3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MB:209:LEU:HB3	3:MB:227:LEU:HD22	1.92	0.52
2:MC:310:GLY:HA3	2:MC:383:ALA:HB2	1.91	0.52
2:MC:419:SER:O	2:MC:422:ARG:HD3	2.10	0.52
3:MD:209:LEU:HB3	3:MD:227:LEU:HD22	1.92	0.52
2:ME:419:SER:O	2:ME:422:ARG:HD3	2.10	0.52
2:NA:203:MET:SD	2:NA:203:MET:N	2.83	0.52
2:NE:394:LYS:HZ3	3:NF:348:PRO:HG3	1.75	0.52
1:1B:98:LYS:HB2	1:1B:106:VAL:HG11	1.91	0.52
1:1E:98:LYS:HB2	1:1E:106:VAL:HG11	1.92	0.52
2:AA:203:MET:SD	2:AA:203:MET:N	2.83	0.52
2:AC:203:MET:N	2:AC:203:MET:SD	2.83	0.52
2:AE:203:MET:N	2:AE:203:MET:SD	2.83	0.52
2:BA:310:GLY:HA3	2:BA:383:ALA:HB2	1.91	0.52
3:BD:209:LEU:HB3	3:BD:227:LEU:HD22	1.92	0.52
3:BF:209:LEU:HB3	3:BF:227:LEU:HD22	1.92	0.52
3:CB:209:LEU:HB3	3:CB:227:LEU:HD22	1.92	0.52
3:CB:289:PRO:O	3:CB:292:THR:OG1	2.23	0.52
3:CF:116:ASP:OD2	3:CF:117:SER:N	2.43	0.52
2:EA:419:SER:O	2:EA:422:ARG:HD3	2.10	0.52
3:EB:255:LEU:HD21	3:EB:318:ILE:HD11	1.91	0.52
2:EC:187:SER:O	2:EC:190:THR:OG1	2.23	0.52
2:EC:203:MET:N	2:EC:203:MET:SD	2.83	0.52
3:EF:255:LEU:HD21	3:EF:318:ILE:HD11	1.90	0.52
3:FF:116:ASP:OD2	3:FF:117:SER:N	2.43	0.52
2:GA:168:GLU:O	2:GA:202:PHE:N	2.31	0.52
2:GA:310:GLY:HA3	2:GA:383:ALA:HB2	1.91	0.52
2:GA:419:SER:O	2:GA:422:ARG:HD3	2.10	0.52
2:GC:419:SER:O	2:GC:422:ARG:HD3	2.10	0.52
3:GD:101:ASN:ND2	2:GE:254:GLU:OE2	2.42	0.52
3:GD:182:VAL:O	3:GD:182:VAL:HG12	2.09	0.52
2:GE:224:TYR:HE1	3:GF:325:MET:HG3	1.74	0.52
2:HC:203:MET:N	2:HC:203:MET:SD	2.83	0.52
2:HC:310:GLY:HA3	2:HC:383:ALA:HB2	1.91	0.52
2:HE:203:MET:N	2:HE:203:MET:SD	2.83	0.52
2:HE:310:GLY:HA3	2:HE:383:ALA:HB2	1.91	0.52
2:IA:118:VAL:HG21	2:IA:149:PHE:CZ	2.43	0.52
3:IB:116:ASP:OD2	3:IB:117:SER:N	2.43	0.52
2:IC:310:GLY:HA3	2:IC:383:ALA:HB2	1.91	0.52
3:ID:116:ASP:OD2	3:ID:117:SER:N	2.43	0.52
3:IF:116:ASP:OD2	3:IF:117:SER:N	2.43	0.52
2:JA:118:VAL:HG21	2:JA:149:PHE:CZ	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JC:118:VAL:HG21	2:JC:149:PHE:CZ	2.44	0.52
2:JC:190:THR:O	2:JC:193:THR:OG1	2.22	0.52
4:JC:501:GTP:O3G	3:JD:254:LYS:NZ	2.43	0.52
2:JE:118:VAL:HG21	2:JE:149:PHE:CZ	2.44	0.52
3:JF:23:VAL:O	3:JF:27:GLU:HG2	2.10	0.52
2:MC:203:MET:N	2:MC:203:MET:SD	2.83	0.52
2:ME:203:MET:SD	2:ME:203:MET:N	2.83	0.52
2:ME:210:TYR:CE2	3:MF:326:LYS:CB	2.92	0.52
2:NA:204:VAL:HG13	2:NA:302:MET:HE2	1.91	0.52
2:NC:203:MET:N	2:NC:203:MET:SD	2.83	0.52
2:NE:419:SER:O	2:NE:422:ARG:HD3	2.10	0.52
4:NE:501:GTP:PG	3:NF:254:LYS:NZ	2.76	0.52
1:1A:38:ARG:HG2	1:1A:102:CYS:SG	2.49	0.52
1:1B:38:ARG:HG2	1:1B:102:CYS:SG	2.49	0.52
3:AB:209:LEU:HB3	3:AB:227:LEU:HD22	1.92	0.52
3:AB:394:GLN:HE22	2:AC:348:PRO:CG	2.13	0.52
3:AD:209:LEU:HB3	3:AD:227:LEU:HD22	1.92	0.52
2:AE:283:HIS:HB3	3:NB:88:ARG:CZ	2.40	0.52
3:AF:209:LEU:HB3	3:AF:227:LEU:HD22	1.92	0.52
3:BB:182:VAL:O	3:BB:182:VAL:HG12	2.09	0.52
3:CD:209:LEU:HB3	3:CD:227:LEU:HD22	1.92	0.52
3:CF:209:LEU:HB3	3:CF:227:LEU:HD22	1.92	0.52
3:DB:116:ASP:OD2	3:DB:117:SER:N	2.42	0.52
3:DB:182:VAL:O	3:DB:182:VAL:HG12	2.09	0.52
3:DD:23:VAL:O	3:DD:27:GLU:HG2	2.10	0.52
3:DD:116:ASP:OD2	3:DD:117:SER:N	2.43	0.52
3:FB:116:ASP:OD2	3:FB:117:SER:N	2.43	0.52
2:GC:118:VAL:HG21	2:GC:149:PHE:CZ	2.44	0.52
2:GC:310:GLY:HA3	2:GC:383:ALA:HB2	1.91	0.52
2:GE:224:TYR:CE1	3:GF:325:MET:HG3	2.45	0.52
3:GF:116:ASP:OD2	3:GF:117:SER:N	2.43	0.52
2:HA:203:MET:N	2:HA:203:MET:SD	2.83	0.52
2:HA:310:GLY:HA3	2:HA:383:ALA:HB2	1.91	0.52
3:IB:222:PRO:HD2	2:IC:326:LYS:HZ3	1.74	0.52
2:IE:222:PRO:N	3:IF:326:LYS:HZ1	2.07	0.52
3:JD:119:LEU:HA	3:JD:122:VAL:HG12	1.90	0.52
3:JF:119:LEU:HA	3:JF:122:VAL:HG12	1.90	0.52
3:KB:209:LEU:HB3	3:KB:227:LEU:HD22	1.92	0.52
3:KB:407:TRP:CE2	2:KC:257:THR:HG22	2.44	0.52
3:KD:209:LEU:HB3	3:KD:227:LEU:HD22	1.92	0.52
2:KE:203:MET:N	2:KE:203:MET:SD	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:209:LEU:HB3	3:KF:227:LEU:HD22	1.92	0.52
3:LB:289:PRO:O	3:LB:292:THR:OG1	2.23	0.52
2:LE:100:ALA:O	3:LF:257:VAL:HG11	2.09	0.52
2:LE:204:VAL:HG13	2:LE:302:MET:HE2	1.91	0.52
2:ME:207:GLU:HG3	2:ME:304:LYS:HE3	1.89	0.52
2:NC:101:ASN:N	3:ND:254:LYS:HZ2	2.07	0.52
2:NE:203:MET:N	2:NE:203:MET:SD	2.83	0.52
1:1C:70:GLN:HE22	1:1C:71:GLN:HG2	1.75	0.52
1:1D:70:GLN:HE22	1:1D:71:GLN:HG2	1.74	0.52
3:AD:116:ASP:OD2	3:AD:117:SER:N	2.43	0.52
3:AF:116:ASP:OD2	3:AF:117:SER:N	2.43	0.52
2:BA:204:VAL:HG13	2:BA:302:MET:HE2	1.91	0.52
2:BA:294:ALA:O	2:BA:300:ASN:ND2	2.40	0.52
3:BB:209:LEU:HB3	3:BB:227:LEU:HD22	1.92	0.52
2:BC:203:MET:N	2:BC:203:MET:SD	2.83	0.52
2:BE:310:GLY:HA3	2:BE:383:ALA:HB2	1.91	0.52
2:CE:203:MET:N	2:CE:203:MET:SD	2.83	0.52
2:DA:204:VAL:HG13	2:DA:302:MET:HE2	1.91	0.52
3:DB:23:VAL:O	3:DB:27:GLU:HG2	2.10	0.52
3:DB:255:LEU:HD21	3:DB:318:ILE:HD11	1.91	0.52
2:DC:204:VAL:HG13	2:DC:302:MET:HE2	1.91	0.52
3:DD:255:LEU:HD21	3:DD:318:ILE:HD11	1.91	0.52
3:DF:209:LEU:HB3	3:DF:227:LEU:HD22	1.92	0.52
3:DF:255:LEU:HD21	3:DF:318:ILE:HD11	1.91	0.52
3:EB:23:VAL:O	3:EB:27:GLU:HG2	2.10	0.52
3:EF:12:CYS:O	3:EF:16:ILE:HG12	2.09	0.52
3:FB:255:LEU:HD21	3:FB:318:ILE:HD11	1.91	0.52
2:FC:310:GLY:HA3	2:FC:383:ALA:HB2	1.91	0.52
3:FD:116:ASP:OD2	3:FD:117:SER:N	2.43	0.52
3:FF:12:CYS:O	3:FF:16:ILE:HG12	2.09	0.52
3:GD:116:ASP:OD2	3:GD:117:SER:N	2.43	0.52
2:GE:118:VAL:HG21	2:GE:149:PHE:CZ	2.44	0.52
2:GE:419:SER:O	2:GE:422:ARG:HD3	2.10	0.52
2:HA:118:VAL:HG21	2:HA:149:PHE:CZ	2.44	0.52
3:HF:136:GLN:OE1	3:HF:136:GLN:N	2.35	0.52
2:IE:310:GLY:HA3	2:IE:383:ALA:HB2	1.91	0.52
2:JA:203:MET:N	2:JA:203:MET:SD	2.83	0.52
3:JB:394:GLN:HE22	2:JC:348:PRO:CG	2.21	0.52
3:JD:23:VAL:O	3:JD:27:GLU:HG2	2.10	0.52
3:JF:209:LEU:HB3	3:JF:227:LEU:HD22	1.92	0.52
2:KA:203:MET:N	2:KA:203:MET:SD	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KC:203:MET:N	2:KC:203:MET:SD	2.83	0.52
3:KF:23:VAL:O	3:KF:27:GLU:HG2	2.10	0.52
3:LB:209:LEU:HB3	3:LB:227:LEU:HD22	1.92	0.52
2:LC:89:PRO:HD2	2:MC:280:LYS:NZ	2.23	0.52
2:LE:203:MET:N	2:LE:203:MET:SD	2.83	0.52
3:MF:209:LEU:HB3	3:MF:227:LEU:HD22	1.92	0.52
3:NB:12:CYS:O	3:NB:16:ILE:HG12	2.09	0.52
2:AE:190:THR:O	2:AE:193:THR:OG1	2.22	0.52
2:BA:187:SER:O	2:BA:190:THR:OG1	2.23	0.52
2:BA:203:MET:N	2:BA:203:MET:SD	2.83	0.52
3:BB:116:ASP:OD2	3:BB:117:SER:N	2.43	0.52
2:BC:187:SER:O	2:BC:190:THR:OG1	2.23	0.52
2:BC:204:VAL:HG13	2:BC:302:MET:HE2	1.91	0.52
2:BC:310:GLY:HA3	2:BC:383:ALA:HB2	1.91	0.52
2:BE:203:MET:SD	2:BE:203:MET:N	2.83	0.52
2:BE:204:VAL:HG13	2:BE:302:MET:HE2	1.91	0.52
2:CC:203:MET:N	2:CC:203:MET:SD	2.83	0.52
3:DD:12:CYS:O	3:DD:16:ILE:HG12	2.09	0.52
2:DE:204:VAL:HG13	2:DE:302:MET:HE2	1.91	0.52
3:DF:12:CYS:O	3:DF:16:ILE:HG12	2.09	0.52
3:DF:23:VAL:O	3:DF:27:GLU:HG2	2.10	0.52
2:EA:394:LYS:HZ3	3:EB:348:PRO:HG3	1.75	0.52
3:ED:209:LEU:HB3	3:ED:227:LEU:HD22	1.92	0.52
2:EE:310:GLY:HA3	2:EE:383:ALA:HB2	1.91	0.52
3:EF:182:VAL:O	3:EF:182:VAL:HG12	2.09	0.52
2:FA:419:SER:O	2:FA:422:ARG:HD3	2.10	0.52
3:FB:12:CYS:O	3:FB:16:ILE:HG12	2.09	0.52
3:FB:23:VAL:O	3:FB:27:GLU:HG2	2.10	0.52
3:FB:212:ILE:O	3:FB:216:THR:OG1	2.24	0.52
2:FC:419:SER:O	2:FC:422:ARG:HD3	2.10	0.52
3:FD:12:CYS:O	3:FD:16:ILE:HG12	2.09	0.52
3:FD:23:VAL:O	3:FD:27:GLU:HG2	2.10	0.52
3:FD:212:ILE:O	3:FD:216:THR:OG1	2.23	0.52
3:FD:255:LEU:HD21	3:FD:318:ILE:HD11	1.91	0.52
2:FE:224:TYR:CE1	3:FF:325:MET:HE2	2.45	0.52
2:FE:419:SER:O	2:FE:422:ARG:HD3	2.10	0.52
3:FF:23:VAL:O	3:FF:27:GLU:HG2	2.10	0.52
2:GA:118:VAL:HG21	2:GA:149:PHE:CZ	2.44	0.52
2:GA:204:VAL:HG13	2:GA:302:MET:HE2	1.91	0.52
2:GA:386:GLU:HA	2:GA:389:ALA:HB3	1.92	0.52
2:HA:190:THR:O	2:HA:193:THR:OG1	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:172:TYR:OH	2:IA:387:ALA:O	2.28	0.52
2:IA:310:GLY:HA3	2:IA:383:ALA:HB2	1.91	0.52
3:IB:289:PRO:O	3:IB:292:THR:OG1	2.23	0.52
2:JA:294:ALA:O	2:JA:300:ASN:ND2	2.40	0.52
3:JB:23:VAL:O	3:JB:27:GLU:HG2	2.10	0.52
3:JB:119:LEU:HA	3:JB:122:VAL:HG12	1.90	0.52
2:JC:203:MET:N	2:JC:203:MET:SD	2.83	0.52
3:KB:23:VAL:O	3:KB:27:GLU:HG2	2.10	0.52
3:KB:116:ASP:OD2	3:KB:117:SER:N	2.43	0.52
3:KD:23:VAL:O	3:KD:27:GLU:HG2	2.10	0.52
2:LC:203:MET:N	2:LC:203:MET:SD	2.83	0.52
3:LD:209:LEU:HB3	3:LD:227:LEU:HD22	1.92	0.52
2:ME:89:PRO:HD2	2:NE:280:LYS:HZ3	1.74	0.52
3:MF:116:ASP:OD2	3:MF:117:SER:N	2.43	0.52
2:NC:204:VAL:HG13	2:NC:302:MET:HE2	1.91	0.52
1:1C:38:ARG:HG2	1:1C:102:CYS:SG	2.49	0.52
2:BA:407:TRP:CH2	3:BB:257:VAL:HA	2.45	0.52
3:BD:182:VAL:O	3:BD:182:VAL:HG12	2.09	0.52
3:BF:116:ASP:OD2	3:BF:117:SER:N	2.43	0.52
3:BF:182:VAL:HG12	3:BF:182:VAL:O	2.09	0.52
2:CA:100:ALA:HA	3:CB:254:LYS:HD3	1.91	0.52
2:CA:203:MET:N	2:CA:203:MET:SD	2.83	0.52
3:CB:12:CYS:O	3:CB:16:ILE:HG12	2.09	0.52
3:CB:23:VAL:O	3:CB:27:GLU:HG2	2.10	0.52
2:CC:419:SER:O	2:CC:422:ARG:HD3	2.10	0.52
3:CD:12:CYS:O	3:CD:16:ILE:HG12	2.09	0.52
2:CE:419:SER:O	2:CE:422:ARG:HD3	2.10	0.52
2:DA:419:SER:O	2:DA:422:ARG:HD3	2.10	0.52
3:DD:209:LEU:HB3	3:DD:227:LEU:HD22	1.92	0.52
3:DF:116:ASP:OD2	3:DF:117:SER:N	2.43	0.52
3:EB:12:CYS:O	3:EB:16:ILE:HG12	2.09	0.52
3:EB:209:LEU:HB3	3:EB:227:LEU:HD22	1.92	0.52
3:ED:12:CYS:O	3:ED:16:ILE:HG12	2.09	0.52
3:ED:23:VAL:O	3:ED:27:GLU:HG2	2.10	0.52
3:EF:23:VAL:O	3:EF:27:GLU:HG2	2.10	0.52
2:FE:310:GLY:HA3	2:FE:383:ALA:HB2	1.91	0.52
2:GA:203:MET:N	2:GA:203:MET:SD	2.83	0.52
2:GC:203:MET:SD	2:GC:203:MET:N	2.83	0.52
2:GC:204:VAL:HG13	2:GC:302:MET:HE2	1.91	0.52
2:GE:386:GLU:HA	2:GE:389:ALA:HB3	1.92	0.52
2:HE:190:THR:O	2:HE:193:THR:OG1	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:12:CYS:O	3:HF:16:ILE:HG12	2.09	0.52
2:IA:168:GLU:O	2:IA:202:PHE:N	2.31	0.52
3:ID:401:ARG:HD2	2:IE:346:TRP:CH2	2.45	0.52
2:JA:310:GLY:HA3	2:JA:383:ALA:HB2	1.91	0.52
2:JC:221:ARG:NH2	3:JD:327:GLU:OE2	2.43	0.52
2:JC:310:GLY:HA3	2:JC:383:ALA:HB2	1.91	0.52
3:JD:209:LEU:HB3	3:JD:227:LEU:HD22	1.92	0.52
2:JE:203:MET:N	2:JE:203:MET:SD	2.83	0.52
3:JF:269:MET:CE	3:JF:301:MET:HB2	2.39	0.52
4:KA:501:GTP:O3G	3:KB:254:LYS:NZ	2.43	0.52
3:KB:12:CYS:O	3:KB:16:ILE:HG12	2.09	0.52
3:KB:136:GLN:OE1	3:KB:136:GLN:N	2.35	0.52
2:LA:203:MET:N	2:LA:203:MET:SD	2.83	0.52
2:LA:221:ARG:HE	3:LB:324:SER:HB3	1.74	0.52
2:LE:168:GLU:O	2:LE:202:PHE:N	2.31	0.52
3:LF:209:LEU:HB3	3:LF:227:LEU:HD22	1.92	0.52
3:NB:209:LEU:HB3	3:NB:227:LEU:HD22	1.92	0.52
3:ND:12:CYS:O	3:ND:16:ILE:HG12	2.09	0.52
2:NE:204:VAL:HG13	2:NE:302:MET:HE2	1.91	0.52
3:NF:209:LEU:HB3	3:NF:227:LEU:HD22	1.92	0.52
3:AB:116:ASP:OD2	3:AB:117:SER:N	2.43	0.52
3:AF:57:THR:O	3:AF:60:LYS:NZ	2.42	0.52
2:BA:107:HIS:ND1	2:BA:151:SER:OG	2.43	0.52
3:BD:23:VAL:O	3:BD:27:GLU:HG2	2.10	0.52
3:BD:116:ASP:OD2	3:BD:117:SER:N	2.43	0.52
2:BE:100:ALA:HA	3:BF:254:LYS:HD3	1.92	0.52
2:BE:187:SER:O	2:BE:190:THR:OG1	2.23	0.52
2:CA:419:SER:O	2:CA:422:ARG:HD3	2.10	0.52
3:CF:12:CYS:O	3:CF:16:ILE:HG12	2.09	0.52
3:CF:23:VAL:O	3:CF:27:GLU:HG2	2.10	0.52
3:DB:12:CYS:O	3:DB:16:ILE:HG12	2.09	0.52
3:DB:209:LEU:HB3	3:DB:227:LEU:HD22	1.92	0.52
2:DC:419:SER:O	2:DC:422:ARG:HD3	2.10	0.52
2:DE:419:SER:O	2:DE:422:ARG:HD3	2.10	0.52
3:EF:209:LEU:HB3	3:EF:227:LEU:HD22	1.92	0.52
2:FA:310:GLY:HA3	2:FA:383:ALA:HB2	1.91	0.52
2:FC:294:ALA:O	2:FC:300:ASN:ND2	2.40	0.52
3:FF:212:ILE:O	3:FF:216:THR:OG1	2.23	0.52
3:FF:255:LEU:HD21	3:FF:318:ILE:HD11	1.91	0.52
3:GB:116:ASP:OD2	3:GB:117:SER:N	2.43	0.52
3:GB:137:LEU:HD11	3:GB:153:LEU:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GC:386:GLU:HA	2:GC:389:ALA:HB3	1.92	0.52
2:HC:190:THR:O	2:HC:193:THR:OG1	2.22	0.52
3:ID:289:PRO:O	3:ID:292:THR:OG1	2.23	0.52
2:IE:172:TYR:OH	2:IE:387:ALA:O	2.28	0.52
2:IE:203:MET:N	2:IE:203:MET:SD	2.83	0.52
3:IF:23:VAL:O	3:IF:27:GLU:HG2	2.10	0.52
3:IF:269:MET:CE	3:IF:301:MET:HB2	2.39	0.52
3:JB:57:THR:O	3:JB:60:LYS:NZ	2.42	0.52
2:JC:294:ALA:O	2:JC:300:ASN:ND2	2.40	0.52
2:JE:180:ALA:HB1	3:JF:258:ASN:OD1	2.10	0.52
2:JE:294:ALA:O	2:JE:300:ASN:ND2	2.40	0.52
2:JE:310:GLY:HA3	2:JE:383:ALA:HB2	1.91	0.52
3:KD:12:CYS:O	3:KD:16:ILE:HG12	2.09	0.52
3:KD:116:ASP:OD2	3:KD:117:SER:N	2.42	0.52
3:KD:401:ARG:O	2:KE:346:TRP:CH2	2.62	0.52
3:KF:12:CYS:O	3:KF:16:ILE:HG12	2.09	0.52
3:LD:289:PRO:O	3:LD:292:THR:OG1	2.23	0.52
2:LE:101:ASN:N	3:LF:254:LYS:HZ3	2.08	0.52
2:LE:310:GLY:HA3	2:LE:383:ALA:HB2	1.91	0.52
4:LE:501:GTP:O3G	3:LF:254:LYS:NZ	2.42	0.52
3:MD:116:ASP:OD2	3:MD:117:SER:N	2.43	0.52
3:ND:209:LEU:HB3	3:ND:227:LEU:HD22	1.92	0.52
1:1D:38:ARG:HG2	1:1D:102:CYS:SG	2.49	0.52
1:1E:70:GLN:HE22	1:1E:71:GLN:HG2	1.75	0.52
3:AB:23:VAL:O	3:AB:27:GLU:HG2	2.10	0.52
3:AD:23:VAL:O	3:AD:27:GLU:HG2	2.10	0.52
3:BF:12:CYS:O	3:BF:16:ILE:HG12	2.09	0.52
3:CD:23:VAL:O	3:CD:27:GLU:HG2	2.10	0.52
3:CD:289:PRO:O	3:CD:292:THR:OG1	2.23	0.52
3:CF:289:PRO:O	3:CF:292:THR:OG1	2.23	0.52
3:DB:137:LEU:HD11	3:DB:153:LEU:HD11	1.92	0.52
2:EC:310:GLY:HA3	2:EC:383:ALA:HB2	1.91	0.52
2:EE:386:GLU:HA	2:EE:389:ALA:HB3	1.92	0.52
3:FB:289:PRO:O	3:FB:292:THR:OG1	2.23	0.52
2:FE:203:MET:N	2:FE:203:MET:SD	2.83	0.52
2:FE:294:ALA:O	2:FE:300:ASN:ND2	2.40	0.52
2:GA:107:HIS:ND1	2:GA:151:SER:OG	2.42	0.52
3:GD:137:LEU:HD11	3:GD:153:LEU:HD11	1.92	0.52
2:GE:203:MET:N	2:GE:203:MET:SD	2.83	0.52
2:GE:204:VAL:HG13	2:GE:302:MET:HE2	1.91	0.52
3:HD:12:CYS:O	3:HD:16:ILE:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:203:MET:SD	2:IA:203:MET:N	2.83	0.52
2:IC:203:MET:N	2:IC:203:MET:SD	2.83	0.52
3:ID:23:VAL:O	3:ID:27:GLU:HG2	2.10	0.52
3:ID:269:MET:CE	3:ID:301:MET:HB2	2.39	0.52
3:IF:209:LEU:HB3	3:IF:227:LEU:HD22	1.92	0.52
3:JD:57:THR:O	3:JD:60:LYS:NZ	2.42	0.52
3:JD:269:MET:CE	3:JD:301:MET:HB2	2.39	0.52
2:KA:105:ARG:HH12	3:KB:253:ARG:CD	2.23	0.52
3:KF:269:MET:CE	3:KF:301:MET:HB2	2.39	0.52
3:MF:269:MET:CE	3:MF:301:MET:HB2	2.39	0.52
2:BA:101:ASN:H	3:BB:254:LYS:HZ3	1.57	0.51
3:BB:12:CYS:O	3:BB:16:ILE:HG12	2.09	0.51
2:BC:294:ALA:O	2:BC:300:ASN:ND2	2.40	0.51
3:BD:12:CYS:O	3:BD:16:ILE:HG12	2.09	0.51
3:BD:137:LEU:HD11	3:BD:153:LEU:HD11	1.92	0.51
3:BF:23:VAL:O	3:BF:27:GLU:HG2	2.10	0.51
2:CE:187:SER:O	2:CE:190:THR:OG1	2.23	0.51
2:DA:187:SER:O	2:DA:190:THR:OG1	2.23	0.51
2:EA:386:GLU:HA	2:EA:389:ALA:HB3	1.92	0.51
2:FA:294:ALA:O	2:FA:300:ASN:ND2	2.40	0.51
2:FC:386:GLU:HA	2:FC:389:ALA:HB3	1.92	0.51
2:FE:172:TYR:OH	2:FE:387:ALA:O	2.28	0.51
2:GA:404:PHE:HD2	2:GA:407:TRP:HZ3	1.59	0.51
3:GF:137:LEU:HD11	3:GF:153:LEU:HD11	1.93	0.51
2:HA:386:GLU:HA	2:HA:389:ALA:HB3	1.92	0.51
3:HB:12:CYS:O	3:HB:16:ILE:HG12	2.09	0.51
3:HB:289:PRO:O	3:HB:292:THR:OG1	2.23	0.51
2:HE:386:GLU:HA	2:HE:389:ALA:HB3	1.92	0.51
2:IA:404:PHE:HD2	2:IA:407:TRP:HZ3	1.59	0.51
3:IB:23:VAL:O	3:IB:27:GLU:HG2	2.10	0.51
3:IB:209:LEU:HB3	3:IB:227:LEU:HD22	1.92	0.51
3:IB:269:MET:CE	3:IB:301:MET:HB2	2.39	0.51
3:ID:209:LEU:HB3	3:ID:227:LEU:HD22	1.92	0.51
2:JC:407:TRP:CH2	3:JD:260:VAL:O	2.63	0.51
2:KA:310:GLY:HA3	2:KA:383:ALA:HB2	1.91	0.51
3:KF:57:THR:O	3:KF:60:LYS:NZ	2.42	0.51
2:LA:310:GLY:HA3	2:LA:383:ALA:HB2	1.91	0.51
2:LC:310:GLY:HA3	2:LC:383:ALA:HB2	1.91	0.51
3:MD:269:MET:CE	3:MD:301:MET:HB2	2.39	0.51
3:NF:12:CYS:O	3:NF:16:ILE:HG12	2.09	0.51
1:1A:30:SER:OG	1:1A:48:GLU:OE2	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:30:SER:OG	1:1B:48:GLU:OE2	2.24	0.51
3:AF:23:VAL:O	3:AF:27:GLU:HG2	2.10	0.51
3:BB:23:VAL:O	3:BB:27:GLU:HG2	2.10	0.51
3:BB:137:LEU:HD11	3:BB:153:LEU:HD11	1.93	0.51
3:BB:330:GLU:O	3:BB:334:ASN:ND2	2.21	0.51
2:BC:107:HIS:ND1	2:BC:151:SER:OG	2.43	0.51
2:BE:107:HIS:ND1	2:BE:151:SER:OG	2.43	0.51
2:BE:294:ALA:O	2:BE:300:ASN:ND2	2.40	0.51
3:BF:137:LEU:HD11	3:BF:153:LEU:HD11	1.93	0.51
2:CC:56:THR:HA	2:DC:285:GLN:HB2	1.92	0.51
2:DA:203:MET:N	2:DA:203:MET:SD	2.83	0.51
2:DA:310:GLY:HA3	2:DA:383:ALA:HB2	1.91	0.51
2:DC:310:GLY:HA3	2:DC:383:ALA:HB2	1.91	0.51
3:DD:137:LEU:HD11	3:DD:153:LEU:HD11	1.93	0.51
2:DE:203:MET:N	2:DE:203:MET:SD	2.83	0.51
3:DF:137:LEU:HD11	3:DF:153:LEU:HD11	1.93	0.51
2:EC:371:VAL:HG12	2:EC:373:ARG:H	1.76	0.51
3:FB:57:THR:O	3:FB:60:LYS:NZ	2.42	0.51
2:FC:203:MET:N	2:FC:203:MET:SD	2.83	0.51
2:FC:371:VAL:HG12	2:FC:373:ARG:H	1.76	0.51
3:FD:289:PRO:O	3:FD:292:THR:OG1	2.23	0.51
2:FE:371:VAL:HG12	2:FE:373:ARG:H	1.76	0.51
3:FF:143:GLY:O	3:FF:147:SER:OG	2.17	0.51
2:GC:404:PHE:HD2	2:GC:407:TRP:HZ3	1.59	0.51
3:GD:330:GLU:O	3:GD:334:ASN:ND2	2.21	0.51
2:GE:404:PHE:HD2	2:GE:407:TRP:HZ3	1.59	0.51
3:GF:269:MET:CE	3:GF:301:MET:HB2	2.39	0.51
3:HD:209:LEU:HB3	3:HD:227:LEU:HD22	1.92	0.51
3:HF:269:MET:CE	3:HF:301:MET:HB2	2.39	0.51
3:IB:401:ARG:HD2	2:IC:346:TRP:CZ2	2.45	0.51
2:IC:222:PRO:HD2	3:ID:326:LYS:NZ	2.26	0.51
2:IE:386:GLU:HA	2:IE:389:ALA:HB3	1.92	0.51
3:IF:57:THR:O	3:IF:60:LYS:NZ	2.42	0.51
3:JB:209:LEU:HB3	3:JB:227:LEU:HD22	1.92	0.51
3:JB:269:MET:CE	3:JB:301:MET:HB2	2.39	0.51
3:JF:57:THR:O	3:JF:60:LYS:NZ	2.42	0.51
3:KD:269:MET:CE	3:KD:301:MET:HB2	2.39	0.51
3:KF:116:ASP:OD2	3:KF:117:SER:N	2.42	0.51
2:LA:404:PHE:HD2	2:LA:407:TRP:HZ3	1.59	0.51
2:LC:404:PHE:HD2	2:LC:407:TRP:HZ3	1.59	0.51
2:LE:404:PHE:HD2	2:LE:407:TRP:HZ3	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:23:VAL:O	3:LF:27:GLU:HG2	2.10	0.51
3:LF:269:MET:CE	3:LF:301:MET:HB2	2.39	0.51
3:MB:116:ASP:OD2	3:MB:117:SER:N	2.43	0.51
2:ME:107:HIS:ND1	2:ME:151:SER:OG	2.43	0.51
2:NC:404:PHE:HD2	2:NC:407:TRP:HZ3	1.59	0.51
1:1A:70:GLN:HE22	1:1A:71:GLN:HG2	1.75	0.51
1:1B:70:GLN:HE22	1:1B:71:GLN:HG2	1.75	0.51
2:AC:172:TYR:OH	2:AC:387:ALA:O	2.28	0.51
2:AE:3:GLU:HG2	2:AE:64:ARG:HH12	1.76	0.51
2:BC:407:TRP:CZ2	3:BD:256:ALA:O	2.64	0.51
3:BD:185:TYR:CE1	3:BD:398:MET:HG3	2.46	0.51
2:CA:107:HIS:ND1	2:CA:151:SER:OG	2.43	0.51
3:CB:185:TYR:CE1	3:CB:398:MET:HG3	2.46	0.51
2:DC:203:MET:SD	2:DC:203:MET:N	2.83	0.51
2:DE:310:GLY:HA3	2:DE:383:ALA:HB2	1.91	0.51
2:EA:107:HIS:ND1	2:EA:151:SER:OG	2.43	0.51
3:EB:185:TYR:CE1	3:EB:398:MET:HG3	2.46	0.51
2:EE:371:VAL:HG12	2:EE:373:ARG:H	1.76	0.51
2:EE:398:MET:HG3	3:EF:347:ILE:CD1	2.40	0.51
2:EE:404:PHE:HD2	2:EE:407:TRP:HZ3	1.59	0.51
2:FA:203:MET:SD	2:FA:203:MET:N	2.83	0.51
2:FA:371:VAL:HG12	2:FA:373:ARG:H	1.76	0.51
2:FC:172:TYR:OH	2:FC:387:ALA:O	2.28	0.51
3:FD:209:LEU:HB3	3:FD:227:LEU:HD22	1.92	0.51
2:FE:386:GLU:HA	2:FE:389:ALA:HB3	1.92	0.51
2:GC:221:ARG:HE	3:GD:324:SER:HB3	1.75	0.51
3:GF:23:VAL:O	3:GF:27:GLU:HG2	2.10	0.51
3:HB:209:LEU:HB3	3:HB:227:LEU:HD22	1.92	0.51
2:HC:386:GLU:HA	2:HC:389:ALA:HB3	1.92	0.51
2:IA:386:GLU:HA	2:IA:389:ALA:HB3	1.92	0.51
2:IC:404:PHE:HD2	2:IC:407:TRP:HZ3	1.59	0.51
3:ID:137:LEU:HD11	3:ID:153:LEU:HD11	1.92	0.51
3:ID:407:TRP:CD2	2:IE:257:THR:HG22	2.46	0.51
2:IE:404:PHE:HD2	2:IE:407:TRP:HZ3	1.59	0.51
3:IF:289:PRO:O	3:IF:292:THR:OG1	2.23	0.51
2:JA:404:PHE:HD2	2:JA:407:TRP:HZ3	1.59	0.51
2:JC:404:PHE:HD2	2:JC:407:TRP:HZ3	1.59	0.51
2:KC:310:GLY:HA3	2:KC:383:ALA:HB2	1.91	0.51
2:KE:310:GLY:HA3	2:KE:383:ALA:HB2	1.91	0.51
2:LA:371:VAL:HG12	2:LA:373:ARG:H	1.76	0.51
2:LC:371:VAL:HG12	2:LC:373:ARG:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LE:371:VAL:HG12	2:LE:373:ARG:H	1.76	0.51
2:MA:331:ALA:O	2:MA:335:ILE:HG12	2.11	0.51
3:MB:269:MET:HE1	3:MB:303:ALA:N	2.26	0.51
2:MC:294:ALA:O	2:MC:300:ASN:ND2	2.40	0.51
2:NA:404:PHE:HD2	2:NA:407:TRP:HZ3	1.59	0.51
2:NC:371:VAL:HG12	2:NC:373:ARG:H	1.76	0.51
1:1E:92:PRO:HG2	1:1E:95:VAL:HG23	1.93	0.51
2:AA:371:VAL:HG12	2:AA:373:ARG:H	1.76	0.51
2:AC:3:GLU:HG2	2:AC:64:ARG:HH12	1.76	0.51
2:AE:371:VAL:HG12	2:AE:373:ARG:H	1.76	0.51
2:AE:394:LYS:HD2	3:AF:348:PRO:HG3	1.92	0.51
2:BC:224:TYR:CE1	3:BD:325:MET:HG3	2.45	0.51
3:BF:185:TYR:CE1	3:BF:398:MET:HG3	2.46	0.51
3:CD:185:TYR:CE1	3:CD:398:MET:HG3	2.46	0.51
3:CF:185:TYR:CE1	3:CF:398:MET:HG3	2.46	0.51
3:DB:185:TYR:CE1	3:DB:398:MET:HG3	2.46	0.51
3:DD:185:TYR:CE1	3:DD:398:MET:HG3	2.46	0.51
2:DE:401:LYS:CE	3:DF:346:TRP:HE1	2.23	0.51
2:EA:371:VAL:HG12	2:EA:373:ARG:H	1.76	0.51
2:EA:404:PHE:HD2	2:EA:407:TRP:HZ3	1.59	0.51
3:EB:269:MET:HE1	3:EB:303:ALA:N	2.26	0.51
2:EC:404:PHE:HD2	2:EC:407:TRP:HZ3	1.59	0.51
3:ED:185:TYR:CE1	3:ED:398:MET:HG3	2.46	0.51
3:ED:269:MET:HE1	3:ED:303:ALA:N	2.26	0.51
3:EF:137:LEU:HD11	3:EF:153:LEU:HD11	1.93	0.51
3:EF:185:TYR:CE1	3:EF:398:MET:HG3	2.46	0.51
3:EF:269:MET:HE1	3:EF:303:ALA:N	2.26	0.51
2:FA:386:GLU:HA	2:FA:389:ALA:HB3	1.92	0.51
3:FB:209:LEU:HB3	3:FB:227:LEU:HD22	1.92	0.51
3:GB:23:VAL:O	3:GB:27:GLU:HG2	2.10	0.51
3:GD:23:VAL:O	3:GD:27:GLU:HG2	2.10	0.51
2:HC:371:VAL:HG12	2:HC:373:ARG:H	1.76	0.51
3:HF:209:LEU:HB3	3:HF:227:LEU:HD22	1.92	0.51
3:IB:137:LEU:HD11	3:IB:153:LEU:HD11	1.92	0.51
2:IC:386:GLU:HA	2:IC:389:ALA:HB3	1.92	0.51
4:JA:501:GTP:O1G	3:JB:254:LYS:NZ	2.41	0.51
3:JB:189:LEU:O	3:JB:193:GLN:NE2	2.36	0.51
2:KA:404:PHE:HD2	2:KA:407:TRP:HZ3	1.59	0.51
2:KC:190:THR:O	2:KC:193:THR:OG1	2.22	0.51
2:KE:404:PHE:CE2	3:KF:261:PRO:HA	2.46	0.51
2:LA:3:GLU:HG2	2:LA:64:ARG:HH12	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:23:VAL:O	3:LD:27:GLU:HG2	2.10	0.51
2:LE:3:GLU:HG2	2:LE:64:ARG:HH12	1.76	0.51
2:MA:294:ALA:O	2:MA:300:ASN:ND2	2.40	0.51
3:MB:269:MET:CE	3:MB:301:MET:HB2	2.39	0.51
2:MC:331:ALA:O	2:MC:335:ILE:HG12	2.11	0.51
3:MD:269:MET:HE1	3:MD:303:ALA:N	2.26	0.51
2:ME:210:TYR:HE2	3:MF:326:LYS:HA	1.75	0.51
2:ME:331:ALA:O	2:ME:335:ILE:HG12	2.11	0.51
4:ME:501:GTP:PG	3:MF:254:LYS:NZ	2.84	0.51
3:MF:23:VAL:O	3:MF:27:GLU:HG2	2.10	0.51
3:NB:23:VAL:O	3:NB:27:GLU:HG2	2.10	0.51
2:NE:371:VAL:HG12	2:NE:373:ARG:H	1.76	0.51
2:NE:404:PHE:HD2	2:NE:407:TRP:HZ3	1.59	0.51
1:1A:63:TYR:OH	1:1A:79:LEU:HA	2.11	0.51
1:1A:92:PRO:HG2	1:1A:95:VAL:HG23	1.93	0.51
1:1B:92:PRO:HG2	1:1B:95:VAL:HG23	1.93	0.51
2:AA:3:GLU:HG2	2:AA:64:ARG:HH12	1.76	0.51
2:AC:371:VAL:HG12	2:AC:373:ARG:H	1.76	0.51
3:BB:185:TYR:CE1	3:BB:398:MET:HG3	2.46	0.51
2:CC:187:SER:O	2:CC:190:THR:OG1	2.23	0.51
2:DA:224:TYR:CE1	3:DB:325:MET:HG3	2.45	0.51
3:DF:185:TYR:CE1	3:DF:398:MET:HG3	2.46	0.51
3:DF:269:MET:HE1	3:DF:303:ALA:N	2.26	0.51
3:DF:269:MET:CE	3:DF:301:MET:HB2	2.39	0.51
2:EC:107:HIS:ND1	2:EC:151:SER:OG	2.43	0.51
3:FB:185:TYR:CE1	3:FB:398:MET:HG3	2.46	0.51
2:FC:172:TYR:N	2:FC:204:VAL:O	2.27	0.51
2:FC:404:PHE:HD2	2:FC:407:TRP:HZ3	1.59	0.51
3:FD:57:THR:O	3:FD:60:LYS:NZ	2.42	0.51
3:FD:185:TYR:CE1	3:FD:398:MET:HG3	2.46	0.51
3:FD:269:MET:HE1	3:FD:303:ALA:N	2.26	0.51
3:FF:57:THR:O	3:FF:60:LYS:NZ	2.42	0.51
3:FF:269:MET:CE	3:FF:301:MET:HB2	2.39	0.51
3:GB:185:TYR:CE1	3:GB:398:MET:HG3	2.46	0.51
3:GD:209:LEU:HB3	3:GD:227:LEU:HD22	1.92	0.51
2:GE:371:VAL:HG12	2:GE:373:ARG:H	1.76	0.51
3:GF:209:LEU:HB3	3:GF:227:LEU:HD22	1.92	0.51
2:HC:404:PHE:HD2	2:HC:407:TRP:HZ3	1.59	0.51
3:HD:269:MET:CE	3:HD:301:MET:HB2	2.39	0.51
2:HE:404:PHE:HD2	2:HE:407:TRP:HZ3	1.59	0.51
3:IF:137:LEU:HD11	3:IF:153:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:185:TYR:CE1	3:JB:398:MET:HG3	2.46	0.51
3:JD:185:TYR:CE1	3:JD:398:MET:HG3	2.46	0.51
2:JE:3:GLU:HG2	2:JE:64:ARG:HH12	1.76	0.51
2:JE:404:PHE:HD2	2:JE:407:TRP:HZ3	1.59	0.51
2:KE:190:THR:O	2:KE:193:THR:OG1	2.22	0.51
3:LB:23:VAL:O	3:LB:27:GLU:HG2	2.10	0.51
2:LC:3:GLU:HG2	2:LC:64:ARG:HH12	1.76	0.51
3:LD:269:MET:CE	3:LD:301:MET:HB2	2.39	0.51
3:LF:289:PRO:O	3:LF:292:THR:OG1	2.23	0.51
2:MA:404:PHE:HD2	2:MA:407:TRP:HZ3	1.59	0.51
2:ME:294:ALA:O	2:ME:300:ASN:ND2	2.40	0.51
3:MF:269:MET:HE1	3:MF:303:ALA:N	2.26	0.51
2:NA:331:ALA:O	2:NA:335:ILE:HG12	2.11	0.51
2:NA:371:VAL:HG12	2:NA:373:ARG:H	1.76	0.51
3:ND:23:VAL:O	3:ND:27:GLU:HG2	2.10	0.51
2:NE:331:ALA:O	2:NE:335:ILE:HG12	2.11	0.51
3:NF:23:VAL:O	3:NF:27:GLU:HG2	2.10	0.51
3:NF:136:GLN:OE1	3:NF:136:GLN:N	2.35	0.51
1:1C:63:TYR:OH	1:1C:79:LEU:HA	2.11	0.51
3:AB:289:PRO:O	3:AB:292:THR:OG1	2.23	0.51
3:AB:394:GLN:NE2	2:AC:348:PRO:HG2	2.13	0.51
2:BA:404:PHE:HD2	2:BA:407:TRP:HZ3	1.59	0.51
3:CD:269:MET:CE	3:CD:301:MET:HB2	2.39	0.51
3:DB:269:MET:HE1	3:DB:303:ALA:N	2.26	0.51
3:DD:269:MET:HE1	3:DD:303:ALA:N	2.26	0.51
2:EC:386:GLU:HA	2:EC:389:ALA:HB3	1.92	0.51
3:FB:269:MET:HE1	3:FB:303:ALA:N	2.26	0.51
3:FF:185:TYR:CE1	3:FF:398:MET:HG3	2.46	0.51
3:FF:269:MET:HE1	3:FF:303:ALA:N	2.26	0.51
2:GA:371:VAL:HG12	2:GA:373:ARG:H	1.76	0.51
3:GB:209:LEU:HB3	3:GB:227:LEU:HD22	1.92	0.51
3:GD:269:MET:CE	3:GD:301:MET:HB2	2.39	0.51
2:GE:107:HIS:ND1	2:GE:151:SER:OG	2.43	0.51
2:HA:371:VAL:HG12	2:HA:373:ARG:H	1.76	0.51
3:HD:221:THR:HA	2:HE:326:LYS:HZ3	1.75	0.51
3:HD:289:PRO:O	3:HD:292:THR:OG1	2.23	0.51
2:HE:371:VAL:HG12	2:HE:373:ARG:H	1.76	0.51
2:JA:3:GLU:HG2	2:JA:64:ARG:HH12	1.76	0.51
2:JC:3:GLU:HG2	2:JC:64:ARG:HH12	1.76	0.51
2:KA:190:THR:O	2:KA:193:THR:OG1	2.22	0.51
2:KA:222:PRO:C	3:KB:326:LYS:HZ1	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:137:LEU:HD11	3:KB:153:LEU:HD11	1.92	0.51
2:KC:404:PHE:HD2	2:KC:407:TRP:HZ3	1.59	0.51
3:KF:185:TYR:CE1	3:KF:398:MET:HG3	2.46	0.51
3:LD:185:TYR:CE1	3:LD:398:MET:HG3	2.46	0.51
2:MA:422:ARG:CB	2:MA:425:MET:HE2	2.38	0.51
2:MC:221:ARG:NE	3:MD:324:SER:HB3	2.26	0.51
2:MC:404:PHE:HD2	2:MC:407:TRP:HZ3	1.59	0.51
2:ME:404:PHE:HD2	2:ME:407:TRP:HZ3	1.59	0.51
3:NF:212:ILE:O	3:NF:216:THR:OG1	2.23	0.51
1:1B:63:TYR:OH	1:1B:79:LEU:HA	2.11	0.51
1:1D:63:TYR:OH	1:1D:79:LEU:HA	2.11	0.51
2:AA:244:PHE:HB2	2:AA:356:ASN:HD21	1.76	0.51
3:AB:137:LEU:HD11	3:AB:153:LEU:HD11	1.93	0.51
3:AB:185:TYR:CE1	3:AB:398:MET:HG3	2.46	0.51
3:AF:185:TYR:CE1	3:AF:398:MET:HG3	2.46	0.51
2:BC:244:PHE:HB2	2:BC:356:ASN:HD21	1.76	0.51
2:BC:404:PHE:HD2	2:BC:407:TRP:HZ3	1.59	0.51
3:BD:269:MET:HE1	3:BD:303:ALA:N	2.26	0.51
2:BE:404:PHE:HD2	2:BE:407:TRP:HZ3	1.59	0.51
2:CC:3:GLU:HG2	2:CC:64:ARG:HH12	1.76	0.51
2:CE:404:PHE:HD2	2:CE:407:TRP:HZ3	1.59	0.51
3:CF:269:MET:CE	3:CF:301:MET:HB2	2.39	0.51
2:DC:3:GLU:HG2	2:DC:64:ARG:HH12	1.76	0.51
2:DC:371:VAL:HG12	2:DC:373:ARG:H	1.76	0.51
2:DE:3:GLU:HG2	2:DE:64:ARG:HH12	1.76	0.51
2:DE:371:VAL:HG12	2:DE:373:ARG:H	1.76	0.51
3:ED:137:LEU:HD11	3:ED:153:LEU:HD11	1.93	0.51
2:FA:244:PHE:HB2	2:FA:356:ASN:HD21	1.76	0.51
2:FA:404:PHE:HD2	2:FA:407:TRP:HZ3	1.59	0.51
3:FB:401:ARG:HD2	2:FC:346:TRP:CZ2	2.45	0.51
3:FD:269:MET:CE	3:FD:301:MET:HB2	2.39	0.51
3:FF:209:LEU:HB3	3:FF:227:LEU:HD22	1.92	0.51
2:GC:371:VAL:HG12	2:GC:373:ARG:H	1.76	0.51
3:GD:185:TYR:CE1	3:GD:398:MET:HG3	2.46	0.51
2:GE:294:ALA:O	2:GE:300:ASN:ND2	2.40	0.51
3:HB:123:ARG:O	3:HB:127:GLU:HG2	2.11	0.51
3:HB:269:MET:CE	3:HB:301:MET:HB2	2.39	0.51
3:JD:60:LYS:HE3	3:KD:283:TYR:HA	1.93	0.51
3:JD:189:LEU:O	3:JD:193:GLN:NE2	2.36	0.51
2:JE:76:ASP:OD2	3:JF:48:ARG:NH2	2.37	0.51
3:JF:185:TYR:CE1	3:JF:398:MET:HG3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:269:MET:CE	3:KB:301:MET:HB2	2.39	0.51
3:KB:403:ALA:CB	2:KC:346:TRP:CZ3	2.93	0.51
2:KE:404:PHE:HD2	2:KE:407:TRP:HZ3	1.59	0.51
2:LA:100:ALA:O	3:LB:257:VAL:HG11	2.10	0.51
3:LB:185:TYR:CE1	3:LB:398:MET:HG3	2.46	0.51
3:LF:185:TYR:CE1	3:LF:398:MET:HG3	2.46	0.51
2:MC:3:GLU:HG2	2:MC:64:ARG:HH12	1.76	0.51
2:ME:105:ARG:HH12	3:MF:253:ARG:CD	2.19	0.51
2:NA:422:ARG:CB	2:NA:425:MET:HE2	2.38	0.51
3:NB:269:MET:HE1	3:NB:303:ALA:N	2.26	0.51
2:NC:331:ALA:O	2:NC:335:ILE:HG12	2.11	0.51
2:AA:404:PHE:HD2	2:AA:407:TRP:HZ3	1.59	0.51
2:AC:244:PHE:HB2	2:AC:356:ASN:HD21	1.76	0.51
3:AD:137:LEU:HD11	3:AD:153:LEU:HD11	1.92	0.51
3:AD:185:TYR:CE1	3:AD:398:MET:HG3	2.46	0.51
2:AE:404:PHE:HD2	2:AE:407:TRP:HZ3	1.58	0.51
3:AF:137:LEU:HD11	3:AF:153:LEU:HD11	1.92	0.51
2:BA:244:PHE:HB2	2:BA:356:ASN:HD21	1.76	0.51
3:BD:330:GLU:O	3:BD:334:ASN:ND2	2.21	0.51
2:BE:244:PHE:HB2	2:BE:356:ASN:HD21	1.76	0.51
2:BE:394:LYS:HZ3	2:BE:397:LEU:HD23	1.75	0.51
3:BF:269:MET:HE1	3:BF:303:ALA:N	2.26	0.51
2:CA:3:GLU:HG2	2:CA:64:ARG:HH12	1.76	0.51
3:CB:221:THR:CA	2:CC:326:LYS:HZ3	2.22	0.51
2:CE:3:GLU:HG2	2:CE:64:ARG:HH12	1.76	0.51
2:DA:404:PHE:HD2	2:DA:407:TRP:HZ3	1.59	0.51
2:EA:172:TYR:N	2:EA:204:VAL:O	2.27	0.51
3:EB:137:LEU:HD11	3:EB:153:LEU:HD11	1.92	0.51
2:EE:195:LEU:HD21	2:EE:428:LEU:HD13	1.93	0.51
3:EF:88:ARG:NH1	3:FF:283:TYR:CB	2.74	0.51
2:FE:224:TYR:CD1	3:FF:325:MET:HE2	2.46	0.51
2:FE:404:PHE:HD2	2:FE:407:TRP:HZ3	1.59	0.51
2:GA:172:TYR:OH	2:GA:387:ALA:O	2.28	0.51
2:GA:195:LEU:HD21	2:GA:428:LEU:HD13	1.93	0.51
2:GA:400:ALA:HB3	3:GB:346:TRP:HH2	1.75	0.51
3:GB:57:THR:O	3:GB:60:LYS:NZ	2.42	0.51
2:GC:195:LEU:HD21	2:GC:428:LEU:HD13	1.93	0.51
3:GF:185:TYR:CE1	3:GF:398:MET:HG3	2.46	0.51
2:HA:404:PHE:HD2	2:HA:407:TRP:HZ3	1.59	0.51
3:HB:57:THR:O	3:HB:60:LYS:NZ	2.42	0.51
3:HD:57:THR:O	3:HD:60:LYS:NZ	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:123:ARG:O	3:HD:127:GLU:HG2	2.11	0.51
3:HF:123:ARG:O	3:HF:127:GLU:HG2	2.11	0.51
4:IA:501:GTP:O1G	3:IB:254:LYS:NZ	2.41	0.51
3:IB:185:TYR:CE1	3:IB:398:MET:HG3	2.46	0.51
2:JA:172:TYR:OH	2:JA:387:ALA:O	2.28	0.51
2:JC:371:VAL:HG12	2:JC:373:ARG:H	1.76	0.51
3:JF:60:LYS:CE	3:KF:283:TYR:HA	2.41	0.51
2:KA:371:VAL:HG12	2:KA:373:ARG:H	1.76	0.51
2:KC:371:VAL:HG12	2:KC:373:ARG:H	1.76	0.51
2:KC:386:GLU:HA	2:KC:389:ALA:HB3	1.92	0.51
3:KD:185:TYR:CE1	3:KD:398:MET:HG3	2.46	0.51
2:KE:371:VAL:HG12	2:KE:373:ARG:H	1.76	0.51
3:LB:269:MET:CE	3:LB:301:MET:HB2	2.39	0.51
2:LE:331:ALA:O	2:LE:335:ILE:HG12	2.11	0.51
2:ME:3:GLU:HG2	2:ME:64:ARG:HH12	1.76	0.51
2:ME:401:LYS:HZ2	3:MF:346:TRP:NE1	2.09	0.51
3:NB:239:THR:HG22	3:NB:252:LEU:HD21	1.93	0.51
2:NC:195:LEU:HD21	2:NC:428:LEU:HD13	1.93	0.51
2:NC:394:LYS:NZ	3:ND:348:PRO:HG3	2.23	0.51
2:NE:138:PHE:CD1	2:NE:169:PHE:HB2	2.46	0.51
2:NE:386:GLU:HA	2:NE:389:ALA:HB3	1.92	0.51
1:1B:70:GLN:NE2	1:1B:71:GLN:HG2	2.26	0.51
1:1E:63:TYR:OH	1:1E:79:LEU:HA	2.11	0.51
2:AA:195:LEU:HD21	2:AA:428:LEU:HD13	1.93	0.51
2:AA:422:ARG:CB	2:AA:425:MET:HE2	2.38	0.51
2:AE:244:PHE:HB2	2:AE:356:ASN:HD21	1.76	0.51
3:AF:269:MET:HE1	3:AF:303:ALA:N	2.26	0.51
3:BB:269:MET:HE1	3:BB:303:ALA:N	2.26	0.51
3:BF:269:MET:CE	3:BF:301:MET:HB2	2.39	0.51
2:CA:386:GLU:HA	2:CA:389:ALA:HB3	1.92	0.51
3:CB:269:MET:CE	3:CB:301:MET:HB2	2.39	0.51
2:CC:404:PHE:HD2	2:CC:407:TRP:HZ3	1.59	0.51
2:DA:371:VAL:HG12	2:DA:373:ARG:H	1.76	0.51
2:DA:386:GLU:HA	2:DA:389:ALA:HB3	1.92	0.51
2:DC:404:PHE:HD2	2:DC:407:TRP:HZ3	1.59	0.51
2:EA:195:LEU:HD21	2:EA:428:LEU:HD13	1.93	0.51
2:EE:107:HIS:ND1	2:EE:151:SER:OG	2.43	0.51
2:EE:172:TYR:N	2:EE:204:VAL:O	2.27	0.51
2:FA:401:LYS:HD3	3:FB:346:TRP:CZ2	2.46	0.51
3:FB:137:LEU:HD11	3:FB:153:LEU:HD11	1.93	0.51
3:FB:269:MET:CE	3:FB:301:MET:HB2	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:138:PHE:CD1	2:FC:169:PHE:HB2	2.46	0.51
3:FD:137:LEU:HD11	3:FD:153:LEU:HD11	1.92	0.51
2:FE:172:TYR:N	2:FE:204:VAL:O	2.27	0.51
2:GA:294:ALA:O	2:GA:300:ASN:ND2	2.40	0.51
2:GC:107:HIS:ND1	2:GC:151:SER:OG	2.43	0.51
2:GC:138:PHE:CD1	2:GC:169:PHE:HB2	2.46	0.51
3:GD:269:MET:HE1	3:GD:303:ALA:N	2.26	0.51
2:GE:138:PHE:CD1	2:GE:169:PHE:HB2	2.46	0.51
2:GE:244:PHE:HB2	2:GE:356:ASN:HD21	1.76	0.51
3:HB:185:TYR:CE1	3:HB:398:MET:HG3	2.46	0.51
3:HF:57:THR:O	3:HF:60:LYS:NZ	2.42	0.51
2:IA:138:PHE:CD1	2:IA:169:PHE:HB2	2.46	0.51
2:IC:3:GLU:HG2	2:IC:64:ARG:HH12	1.76	0.51
2:IC:371:VAL:HG12	2:IC:373:ARG:H	1.76	0.51
3:ID:185:TYR:CE1	3:ID:398:MET:HG3	2.46	0.51
2:IE:138:PHE:CD1	2:IE:169:PHE:HB2	2.46	0.51
2:JA:371:VAL:HG12	2:JA:373:ARG:H	1.76	0.51
2:JE:371:VAL:HG12	2:JE:373:ARG:H	1.76	0.51
2:KA:386:GLU:HA	2:KA:389:ALA:HB3	1.92	0.51
3:KB:239:THR:HG22	3:KB:252:LEU:HD21	1.93	0.51
3:KD:123:ARG:O	3:KD:127:GLU:HG2	2.11	0.51
3:KD:137:LEU:HD11	3:KD:153:LEU:HD11	1.93	0.51
2:KE:386:GLU:HA	2:KE:389:ALA:HB3	1.92	0.51
3:KF:123:ARG:O	3:KF:127:GLU:HG2	2.11	0.51
3:KF:137:LEU:HD11	3:KF:153:LEU:HD11	1.92	0.51
2:LA:331:ALA:O	2:LA:335:ILE:HG12	2.11	0.51
3:LB:239:THR:HG22	3:LB:252:LEU:HD21	1.93	0.51
2:LC:331:ALA:O	2:LC:335:ILE:HG12	2.11	0.51
2:LE:394:LYS:HZ3	2:LE:397:LEU:HD23	1.75	0.51
3:MB:123:ARG:O	3:MB:127:GLU:HG2	2.11	0.51
3:MB:185:TYR:CE1	3:MB:398:MET:HG3	2.46	0.51
3:ND:269:MET:HE1	3:ND:303:ALA:N	2.26	0.51
3:NF:269:MET:HE1	3:NF:303:ALA:N	2.26	0.51
1:1A:70:GLN:NE2	1:1A:71:GLN:HG2	2.26	0.51
1:1E:70:GLN:NE2	1:1E:71:GLN:HG2	2.26	0.51
2:AC:331:ALA:O	2:AC:335:ILE:HG12	2.11	0.51
2:AE:195:LEU:HD21	2:AE:428:LEU:HD13	1.93	0.51
2:BA:195:LEU:HD21	2:BA:428:LEU:HD13	1.93	0.51
2:BC:195:LEU:HD21	2:BC:428:LEU:HD13	1.93	0.51
3:BD:123:ARG:O	3:BD:127:GLU:HG2	2.11	0.51
2:BE:195:LEU:HD21	2:BE:428:LEU:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:123:ARG:O	3:BF:127:GLU:HG2	2.11	0.51
2:CC:331:ALA:O	2:CC:335:ILE:HG12	2.11	0.51
2:DA:3:GLU:HG2	2:DA:64:ARG:HH12	1.76	0.51
2:DE:404:PHE:HD2	2:DE:407:TRP:HZ3	1.59	0.51
3:DF:123:ARG:O	3:DF:127:GLU:HG2	2.11	0.51
2:EA:138:PHE:CD1	2:EA:169:PHE:HB2	2.46	0.51
2:EA:394:LYS:HZ3	2:EA:397:LEU:HD23	1.75	0.51
2:EC:195:LEU:HD21	2:EC:428:LEU:HD13	1.93	0.51
2:EE:138:PHE:CD1	2:EE:169:PHE:HB2	2.46	0.51
3:EF:123:ARG:O	3:EF:127:GLU:HG2	2.11	0.51
3:EF:269:MET:CE	3:EF:301:MET:HB2	2.39	0.51
2:FA:3:GLU:HG2	2:FA:64:ARG:HH12	1.76	0.51
2:FA:172:TYR:N	2:FA:204:VAL:O	2.27	0.51
3:FB:123:ARG:O	3:FB:127:GLU:HG2	2.11	0.51
2:FC:244:PHE:HB2	2:FC:356:ASN:HD21	1.76	0.51
2:FE:138:PHE:CD1	2:FE:169:PHE:HB2	2.46	0.51
3:FF:289:PRO:O	3:FF:292:THR:OG1	2.23	0.51
2:GA:138:PHE:CD1	2:GA:169:PHE:HB2	2.46	0.51
3:GB:269:MET:HE1	3:GB:303:ALA:N	2.26	0.51
2:GC:172:TYR:OH	2:GC:387:ALA:O	2.28	0.51
2:GC:244:PHE:HB2	2:GC:356:ASN:HD21	1.76	0.51
2:GE:195:LEU:HD21	2:GE:428:LEU:HD13	1.93	0.51
3:GF:269:MET:HE1	3:GF:303:ALA:N	2.26	0.51
3:HB:23:VAL:O	3:HB:27:GLU:HG2	2.10	0.51
3:HD:23:VAL:O	3:HD:27:GLU:HG2	2.10	0.51
3:HD:185:TYR:CE1	3:HD:398:MET:HG3	2.46	0.51
3:HF:289:PRO:O	3:HF:292:THR:OG1	2.23	0.51
2:IC:220:GLU:O	3:ID:326:LYS:HD2	2.11	0.51
3:JB:239:THR:HG22	3:JB:252:LEU:HD21	1.93	0.51
3:JB:269:MET:HE1	3:JB:303:ALA:N	2.26	0.51
2:JC:386:GLU:HA	2:JC:389:ALA:HB3	1.92	0.51
2:JC:401:LYS:CD	3:JD:346:TRP:HE1	2.24	0.51
3:JD:269:MET:HE1	3:JD:303:ALA:N	2.26	0.51
2:JE:138:PHE:CD1	2:JE:169:PHE:HB2	2.46	0.51
3:JF:269:MET:HE1	3:JF:303:ALA:N	2.26	0.51
3:KB:185:TYR:CE1	3:KB:398:MET:HG3	2.46	0.51
2:KE:138:PHE:CD1	2:KE:169:PHE:HB2	2.46	0.51
3:LD:239:THR:HG22	3:LD:252:LEU:HD21	1.93	0.51
2:MA:3:GLU:HG2	2:MA:64:ARG:HH12	1.76	0.51
2:MA:371:VAL:HG12	2:MA:373:ARG:H	1.76	0.51
2:MA:386:GLU:HA	2:MA:389:ALA:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MC:195:LEU:HD21	2:MC:428:LEU:HD13	1.93	0.51
2:MC:371:VAL:HG12	2:MC:373:ARG:H	1.76	0.51
3:MD:23:VAL:O	3:MD:27:GLU:HG2	2.10	0.51
3:MD:123:ARG:O	3:MD:127:GLU:HG2	2.11	0.51
3:MD:185:TYR:CE1	3:MD:398:MET:HG3	2.46	0.51
2:ME:371:VAL:HG12	2:ME:373:ARG:H	1.76	0.51
3:MF:123:ARG:O	3:MF:127:GLU:HG2	2.11	0.51
3:MF:185:TYR:CE1	3:MF:398:MET:HG3	2.46	0.51
2:NA:195:LEU:HD21	2:NA:428:LEU:HD13	1.93	0.51
2:NA:386:GLU:HA	2:NA:389:ALA:HB3	1.92	0.51
2:NC:138:PHE:CD1	2:NC:169:PHE:HB2	2.46	0.51
3:ND:137:LEU:HD11	3:ND:153:LEU:HD11	1.92	0.51
2:NE:195:LEU:HD21	2:NE:428:LEU:HD13	1.93	0.51
3:NF:185:TYR:CE1	3:NF:398:MET:HG3	2.46	0.51
1:1D:70:GLN:NE2	1:1D:71:GLN:HG2	2.26	0.50
2:AA:331:ALA:O	2:AA:335:ILE:HG12	2.11	0.50
2:AC:195:LEU:HD21	2:AC:428:LEU:HD13	1.93	0.50
2:AC:404:PHE:HD2	2:AC:407:TRP:HZ3	1.59	0.50
3:AD:289:PRO:O	3:AD:292:THR:OG1	2.23	0.50
3:AF:269:MET:CE	3:AF:301:MET:HB2	2.39	0.50
2:BA:386:GLU:HA	2:BA:389:ALA:HB3	1.92	0.50
2:BC:371:VAL:HG12	2:BC:373:ARG:H	1.76	0.50
2:CA:172:TYR:OH	2:CA:387:ALA:O	2.28	0.50
2:CA:195:LEU:HD21	2:CA:428:LEU:HD13	1.93	0.50
2:CA:404:PHE:HD2	2:CA:407:TRP:HZ3	1.59	0.50
2:CC:386:GLU:HA	2:CC:389:ALA:HB3	1.92	0.50
3:CD:269:MET:HE1	3:CD:303:ALA:N	2.26	0.50
2:CE:244:PHE:HB2	2:CE:356:ASN:HD21	1.76	0.50
2:CE:331:ALA:O	2:CE:335:ILE:HG12	2.11	0.50
2:CE:386:GLU:HA	2:CE:389:ALA:HB3	1.92	0.50
3:DB:123:ARG:O	3:DB:127:GLU:HG2	2.11	0.50
3:DB:269:MET:CE	3:DB:301:MET:HB2	2.39	0.50
2:DC:386:GLU:HA	2:DC:389:ALA:HB3	1.92	0.50
3:DD:123:ARG:O	3:DD:127:GLU:HG2	2.11	0.50
2:EA:24:TYR:HA	2:EA:27:GLU:HG2	1.93	0.50
2:EC:138:PHE:CD1	2:EC:169:PHE:HB2	2.46	0.50
2:EE:24:TYR:HA	2:EE:27:GLU:HG2	1.93	0.50
2:FA:138:PHE:CD1	2:FA:169:PHE:HB2	2.46	0.50
3:FD:123:ARG:O	3:FD:127:GLU:HG2	2.11	0.50
2:FE:3:GLU:HG2	2:FE:64:ARG:HH12	1.76	0.50
2:FE:244:PHE:HB2	2:FE:356:ASN:HD21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:123:ARG:O	3:FF:127:GLU:HG2	2.11	0.50
2:GA:3:GLU:HG2	2:GA:64:ARG:HH12	1.76	0.50
2:GA:24:TYR:HA	2:GA:27:GLU:HG2	1.94	0.50
2:GA:244:PHE:HB2	2:GA:356:ASN:HD21	1.76	0.50
3:GB:269:MET:CE	3:GB:301:MET:HB2	2.39	0.50
2:GC:24:TYR:HA	2:GC:27:GLU:HG2	1.93	0.50
2:GC:294:ALA:O	2:GC:300:ASN:ND2	2.40	0.50
2:GE:172:TYR:OH	2:GE:387:ALA:O	2.28	0.50
2:HC:138:PHE:CD1	2:HC:169:PHE:HB2	2.46	0.50
2:HE:138:PHE:CD1	2:HE:169:PHE:HB2	2.46	0.50
3:IB:189:LEU:O	3:IB:193:GLN:NE2	2.36	0.50
2:IC:138:PHE:CD1	2:IC:169:PHE:HB2	2.46	0.50
2:IC:331:ALA:O	2:IC:335:ILE:HG12	2.11	0.50
3:ID:269:MET:HE1	3:ID:303:ALA:N	2.26	0.50
2:IE:3:GLU:HG2	2:IE:64:ARG:HH12	1.76	0.50
2:IE:222:PRO:N	3:IF:326:LYS:NZ	2.59	0.50
2:IE:371:VAL:HG12	2:IE:373:ARG:H	1.76	0.50
3:IF:185:TYR:CE1	3:IF:398:MET:HG3	2.46	0.50
3:IF:269:MET:HE1	3:IF:303:ALA:N	2.26	0.50
2:JA:138:PHE:CD1	2:JA:169:PHE:HB2	2.46	0.50
2:JA:386:GLU:HA	2:JA:389:ALA:HB3	1.92	0.50
2:JC:138:PHE:CD1	2:JC:169:PHE:HB2	2.46	0.50
2:JC:331:ALA:O	2:JC:335:ILE:HG12	2.11	0.50
2:JE:172:TYR:OH	2:JE:387:ALA:O	2.28	0.50
2:JE:331:ALA:O	2:JE:335:ILE:HG12	2.11	0.50
3:JF:189:LEU:O	3:JF:193:GLN:NE2	2.36	0.50
3:KB:123:ARG:O	3:KB:127:GLU:HG2	2.11	0.50
2:LA:56:THR:HA	2:MA:285:GLN:HB2	1.93	0.50
2:LE:138:PHE:CD1	2:LE:169:PHE:HB2	2.46	0.50
2:MA:138:PHE:CD1	2:MA:169:PHE:HB2	2.46	0.50
2:MA:172:TYR:OH	2:MA:387:ALA:O	2.28	0.50
2:MA:195:LEU:HD21	2:MA:428:LEU:HD13	1.93	0.50
2:MC:138:PHE:CD1	2:MC:169:PHE:HB2	2.46	0.50
2:ME:138:PHE:CD1	2:ME:169:PHE:HB2	2.46	0.50
2:ME:195:LEU:HD21	2:ME:428:LEU:HD13	1.93	0.50
2:ME:386:GLU:HA	2:ME:389:ALA:HB3	1.92	0.50
3:MF:137:LEU:HD11	3:MF:153:LEU:HD11	1.92	0.50
2:NA:3:GLU:HG2	2:NA:64:ARG:HH12	1.76	0.50
2:NA:138:PHE:CD1	2:NA:169:PHE:HB2	2.46	0.50
3:NB:137:LEU:HD11	3:NB:153:LEU:HD11	1.92	0.50
2:NC:386:GLU:HA	2:NC:389:ALA:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:185:TYR:CE1	3:ND:398:MET:HG3	2.46	0.50
3:NF:137:LEU:HD11	3:NF:153:LEU:HD11	1.93	0.50
1:1C:35:ASN:HD21	1:1C:38:ARG:CD	2.23	0.50
3:AB:69:ASP:OD2	3:AB:74:THR:OG1	2.18	0.50
3:AB:269:MET:HE1	3:AB:303:ALA:N	2.26	0.50
2:AC:386:GLU:HA	2:AC:389:ALA:HB3	1.92	0.50
3:AD:221:THR:HA	2:AE:326:LYS:HZ3	1.76	0.50
3:AD:269:MET:CE	3:AD:301:MET:HB2	2.39	0.50
2:AE:394:LYS:HZ3	3:AF:348:PRO:HG3	1.75	0.50
2:BA:371:VAL:HG12	2:BA:373:ARG:H	1.76	0.50
3:BD:269:MET:CE	3:BD:301:MET:HB2	2.39	0.50
2:CE:195:LEU:HD21	2:CE:428:LEU:HD13	1.93	0.50
3:CF:269:MET:HE1	3:CF:303:ALA:N	2.26	0.50
2:DA:138:PHE:CD1	2:DA:169:PHE:HB2	2.46	0.50
2:DA:195:LEU:HD21	2:DA:428:LEU:HD13	1.93	0.50
2:DA:331:ALA:O	2:DA:335:ILE:HG12	2.11	0.50
4:DA:501:GTP:PG	3:DB:254:LYS:NZ	2.84	0.50
2:DC:138:PHE:CD1	2:DC:169:PHE:HB2	2.46	0.50
2:DE:138:PHE:CD1	2:DE:169:PHE:HB2	2.46	0.50
2:DE:386:GLU:HA	2:DE:389:ALA:HB3	1.92	0.50
3:ED:123:ARG:O	3:ED:127:GLU:HG2	2.11	0.50
2:EE:401:LYS:CD	3:EF:346:TRP:HE1	2.23	0.50
2:FA:195:LEU:HD21	2:FA:428:LEU:HD13	1.93	0.50
2:GC:3:GLU:HG2	2:GC:64:ARG:HH12	1.76	0.50
2:GE:3:GLU:HG2	2:GE:64:ARG:HH12	1.76	0.50
2:HA:138:PHE:CD1	2:HA:169:PHE:HB2	2.46	0.50
3:HB:269:MET:HE1	3:HB:303:ALA:N	2.26	0.50
2:HC:3:GLU:HG2	2:HC:64:ARG:HH12	1.76	0.50
3:HF:137:LEU:HD11	3:HF:153:LEU:HD11	1.92	0.50
3:HF:185:TYR:CE1	3:HF:398:MET:HG3	2.46	0.50
2:IA:3:GLU:HG2	2:IA:64:ARG:HH12	1.76	0.50
2:IA:195:LEU:HD21	2:IA:428:LEU:HD13	1.93	0.50
2:IA:331:ALA:O	2:IA:335:ILE:HG12	2.11	0.50
2:IA:371:VAL:HG12	2:IA:373:ARG:H	1.76	0.50
3:IB:269:MET:HE1	3:IB:303:ALA:N	2.26	0.50
2:JA:222:PRO:O	3:JB:326:LYS:NZ	2.44	0.50
2:JA:331:ALA:O	2:JA:335:ILE:HG12	2.11	0.50
2:JE:386:GLU:HA	2:JE:389:ALA:HB3	1.92	0.50
2:KA:138:PHE:CD1	2:KA:169:PHE:HB2	2.46	0.50
2:KA:195:LEU:HD21	2:KA:428:LEU:HD13	1.93	0.50
4:KA:501:GTP:PG	3:KB:254:LYS:NZ	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:269:MET:HE1	3:KB:303:ALA:N	2.26	0.50
2:KC:138:PHE:CD1	2:KC:169:PHE:HB2	2.46	0.50
2:LC:138:PHE:CD1	2:LC:169:PHE:HB2	2.46	0.50
2:LC:195:LEU:HD21	2:LC:428:LEU:HD13	1.93	0.50
3:LF:239:THR:HG22	3:LF:252:LEU:HD21	1.93	0.50
3:MB:23:VAL:O	3:MB:27:GLU:HG2	2.10	0.50
3:MB:137:LEU:HD11	3:MB:153:LEU:HD11	1.92	0.50
2:MC:386:GLU:HA	2:MC:389:ALA:HB3	1.92	0.50
3:MD:137:LEU:HD11	3:MD:153:LEU:HD11	1.92	0.50
2:ME:146:GLY:O	2:ME:150:THR:OG1	2.27	0.50
3:ND:239:THR:HG22	3:ND:252:LEU:HD21	1.93	0.50
3:ND:269:MET:CE	3:ND:301:MET:HB2	2.39	0.50
3:NF:269:MET:CE	3:NF:301:MET:HB2	2.39	0.50
1:1A:62:ASN:N	2:AA:308:ARG:NH1	2.60	0.50
1:1C:70:GLN:NE2	1:1C:71:GLN:HG2	2.26	0.50
1:1D:92:PRO:HG2	1:1D:95:VAL:HG23	1.93	0.50
1:1E:35:ASN:HD21	1:1E:38:ARG:CD	2.23	0.50
2:AC:138:PHE:CD1	2:AC:169:PHE:HB2	2.46	0.50
3:AD:123:ARG:O	3:AD:127:GLU:HG2	2.11	0.50
3:AD:269:MET:HE1	3:AD:303:ALA:N	2.26	0.50
2:AE:331:ALA:O	2:AE:335:ILE:HG12	2.11	0.50
3:BB:123:ARG:O	3:BB:127:GLU:HG2	2.11	0.50
2:BC:138:PHE:CD1	2:BC:169:PHE:HB2	2.46	0.50
4:BE:501:GTP:O3G	3:BF:254:LYS:NZ	2.45	0.50
2:CA:138:PHE:CD1	2:CA:169:PHE:HB2	2.46	0.50
2:CA:244:PHE:HB2	2:CA:356:ASN:HD21	1.76	0.50
2:CA:331:ALA:O	2:CA:335:ILE:HG12	2.11	0.50
3:CB:269:MET:HE1	3:CB:303:ALA:N	2.26	0.50
2:CC:138:PHE:CD1	2:CC:169:PHE:HB2	2.46	0.50
2:CC:244:PHE:HB2	2:CC:356:ASN:HD21	1.76	0.50
3:CD:123:ARG:O	3:CD:127:GLU:HG2	2.11	0.50
2:CE:138:PHE:CD1	2:CE:169:PHE:HB2	2.46	0.50
2:DA:172:TYR:OH	2:DA:387:ALA:O	2.28	0.50
2:DC:195:LEU:HD21	2:DC:428:LEU:HD13	1.93	0.50
2:DC:331:ALA:O	2:DC:335:ILE:HG12	2.11	0.50
3:DD:269:MET:CE	3:DD:301:MET:HB2	2.39	0.50
2:DE:331:ALA:O	2:DE:335:ILE:HG12	2.11	0.50
3:EB:239:THR:HG22	3:EB:252:LEU:HD21	1.93	0.50
2:EC:24:TYR:HA	2:EC:27:GLU:HG2	1.94	0.50
2:EE:100:ALA:HA	3:EF:254:LYS:HD3	1.94	0.50
3:FF:137:LEU:HD11	3:FF:153:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GE:24:TYR:HA	2:GE:27:GLU:HG2	1.94	0.50
3:HD:269:MET:HE1	3:HD:303:ALA:N	2.26	0.50
3:HF:269:MET:HE1	3:HF:303:ALA:N	2.26	0.50
2:IE:195:LEU:HD21	2:IE:428:LEU:HD13	1.93	0.50
2:IE:331:ALA:O	2:IE:335:ILE:HG12	2.11	0.50
3:JB:123:ARG:O	3:JB:127:GLU:HG2	2.11	0.50
3:JF:137:LEU:HD11	3:JF:153:LEU:HD11	1.92	0.50
3:KD:239:THR:HG22	3:KD:252:LEU:HD21	1.93	0.50
3:KD:269:MET:HE1	3:KD:303:ALA:N	2.26	0.50
2:KE:422:ARG:CB	2:KE:425:MET:HE2	2.38	0.50
3:KF:269:MET:HE1	3:KF:303:ALA:N	2.26	0.50
2:LA:138:PHE:CD1	2:LA:169:PHE:HB2	2.46	0.50
2:LA:386:GLU:HA	2:LA:389:ALA:HB3	1.92	0.50
2:LC:386:GLU:HA	2:LC:389:ALA:HB3	1.92	0.50
2:LE:195:LEU:HD21	2:LE:428:LEU:HD13	1.93	0.50
2:LE:386:GLU:HA	2:LE:389:ALA:HB3	1.92	0.50
2:LE:422:ARG:CB	2:LE:425:MET:HE2	2.38	0.50
3:LF:137:LEU:HD11	3:LF:153:LEU:HD11	1.93	0.50
2:ME:222:PRO:O	3:MF:326:LYS:NZ	2.44	0.50
3:NB:185:TYR:CE1	3:NB:398:MET:HG3	2.46	0.50
2:NC:3:GLU:HG2	2:NC:64:ARG:HH12	1.76	0.50
3:NF:123:ARG:O	3:NF:127:GLU:HG2	2.11	0.50
3:NF:239:THR:HG22	3:NF:252:LEU:HD21	1.93	0.50
1:1A:35:ASN:HD21	1:1A:38:ARG:CD	2.23	0.50
1:1B:35:ASN:HD21	1:1B:38:ARG:CD	2.23	0.50
1:1D:35:ASN:HD21	1:1D:38:ARG:CD	2.23	0.50
3:AB:123:ARG:O	3:AB:127:GLU:HG2	2.11	0.50
3:AF:289:PRO:O	3:AF:292:THR:OG1	2.23	0.50
2:BA:24:TYR:HA	2:BA:27:GLU:HG2	1.93	0.50
3:BB:239:THR:HG22	3:BB:252:LEU:HD21	1.93	0.50
2:BC:24:TYR:HA	2:BC:27:GLU:HG2	1.94	0.50
2:BE:24:TYR:HA	2:BE:27:GLU:HG2	1.94	0.50
2:BE:371:VAL:HG12	2:BE:373:ARG:H	1.76	0.50
3:BF:57:THR:O	3:BF:60:LYS:NZ	2.42	0.50
3:BF:167:ASN:HA	3:BF:200:GLU:HB3	1.94	0.50
3:CB:123:ARG:O	3:CB:127:GLU:HG2	2.11	0.50
2:CC:195:LEU:HD21	2:CC:428:LEU:HD13	1.94	0.50
2:CC:231:ILE:O	2:CC:234:ILE:HG22	2.12	0.50
2:CE:231:ILE:O	2:CE:234:ILE:HG22	2.12	0.50
3:CF:123:ARG:O	3:CF:127:GLU:HG2	2.11	0.50
3:CF:137:LEU:HD11	3:CF:153:LEU:HD11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DE:195:LEU:HD21	2:DE:428:LEU:HD13	1.93	0.50
2:EA:3:GLU:HG2	2:EA:64:ARG:HH12	1.76	0.50
2:EA:331:ALA:O	2:EA:335:ILE:HG12	2.11	0.50
2:EC:3:GLU:HG2	2:EC:64:ARG:HH12	1.76	0.50
3:ED:239:THR:HG22	3:ED:252:LEU:HD21	1.93	0.50
3:ED:269:MET:CE	3:ED:301:MET:HB2	2.39	0.50
2:EE:331:ALA:O	2:EE:335:ILE:HG12	2.11	0.50
2:FC:3:GLU:HG2	2:FC:64:ARG:HH12	1.76	0.50
2:FE:195:LEU:HD21	2:FE:428:LEU:HD13	1.93	0.50
2:FE:401:LYS:CD	3:FF:346:TRP:HE1	2.16	0.50
2:HA:3:GLU:HG2	2:HA:64:ARG:HH12	1.76	0.50
2:HA:195:LEU:HD21	2:HA:428:LEU:HD13	1.93	0.50
2:HE:3:GLU:HG2	2:HE:64:ARG:HH12	1.76	0.50
3:HF:23:VAL:O	3:HF:27:GLU:HG2	2.10	0.50
2:IC:195:LEU:HD21	2:IC:428:LEU:HD13	1.93	0.50
3:IF:123:ARG:O	3:IF:127:GLU:HG2	2.11	0.50
2:JC:195:LEU:HD21	2:JC:428:LEU:HD13	1.93	0.50
3:JD:123:ARG:O	3:JD:127:GLU:HG2	2.11	0.50
3:JD:239:THR:HG22	3:JD:252:LEU:HD21	1.93	0.50
3:JF:123:ARG:O	3:JF:127:GLU:HG2	2.11	0.50
2:KA:3:GLU:HG2	2:KA:64:ARG:HH12	1.76	0.50
2:KC:195:LEU:HD21	2:KC:428:LEU:HD13	1.93	0.50
2:KE:3:GLU:HG2	2:KE:64:ARG:HH12	1.76	0.50
2:KE:195:LEU:HD21	2:KE:428:LEU:HD13	1.93	0.50
3:KF:239:THR:HG22	3:KF:252:LEU:HD21	1.93	0.50
2:LA:195:LEU:HD21	2:LA:428:LEU:HD13	1.93	0.50
2:LC:401:LYS:HD3	3:LD:346:TRP:NE1	2.26	0.50
2:LC:422:ARG:CB	2:LC:425:MET:HE2	2.38	0.50
2:MA:56:THR:HA	2:NA:285:GLN:HB2	1.94	0.50
2:MC:172:TYR:OH	2:MC:387:ALA:O	2.28	0.50
3:ND:212:ILE:O	3:ND:216:THR:OG1	2.24	0.50
1:1C:92:PRO:HG2	1:1C:95:VAL:HG23	1.93	0.50
3:AB:239:THR:HG22	3:AB:252:LEU:HD21	1.93	0.50
2:AE:138:PHE:CD1	2:AE:169:PHE:HB2	2.46	0.50
2:AE:386:GLU:HA	2:AE:389:ALA:HB3	1.92	0.50
3:AF:123:ARG:O	3:AF:127:GLU:HG2	2.11	0.50
2:BA:138:PHE:CD1	2:BA:169:PHE:HB2	2.46	0.50
3:BB:269:MET:CE	3:BB:301:MET:HB2	2.39	0.50
2:BC:3:GLU:HG2	2:BC:64:ARG:HH12	1.76	0.50
2:BC:331:ALA:O	2:BC:335:ILE:HG12	2.11	0.50
2:BC:386:GLU:HA	2:BC:389:ALA:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:138:PHE:CD1	2:BE:169:PHE:HB2	2.46	0.50
2:BE:386:GLU:HA	2:BE:389:ALA:HB3	1.92	0.50
2:CA:231:ILE:O	2:CA:234:ILE:HG22	2.12	0.50
2:CC:371:VAL:HG12	2:CC:373:ARG:H	1.76	0.50
2:CE:371:VAL:HG12	2:CE:373:ARG:H	1.76	0.50
2:DC:172:TYR:OH	2:DC:387:ALA:O	2.28	0.50
3:DD:167:ASN:HA	3:DD:200:GLU:HB3	1.94	0.50
3:DF:324:SER:OG	3:DF:325:MET:N	2.45	0.50
3:EB:123:ARG:O	3:EB:127:GLU:HG2	2.11	0.50
2:FC:195:LEU:HD21	2:FC:428:LEU:HD13	1.93	0.50
2:GA:100:ALA:O	3:GB:257:VAL:HG11	2.11	0.50
3:GB:239:THR:HG22	3:GB:252:LEU:HD21	1.93	0.50
3:GD:324:SER:OG	3:GD:325:MET:N	2.45	0.50
3:GF:324:SER:OG	3:GF:325:MET:N	2.45	0.50
2:HC:195:LEU:HD21	2:HC:428:LEU:HD13	1.93	0.50
2:HE:195:LEU:HD21	2:HE:428:LEU:HD13	1.93	0.50
3:IB:239:THR:HG22	3:IB:252:LEU:HD21	1.93	0.50
2:JA:195:LEU:HD21	2:JA:428:LEU:HD13	1.93	0.50
3:JD:137:LEU:HD11	3:JD:153:LEU:HD11	1.92	0.50
2:JE:195:LEU:HD21	2:JE:428:LEU:HD13	1.93	0.50
2:JE:401:LYS:NZ	3:JF:346:TRP:NE1	2.59	0.50
2:KC:3:GLU:HG2	2:KC:64:ARG:HH12	1.76	0.50
2:KC:422:ARG:CB	2:KC:425:MET:HE2	2.38	0.50
3:LB:189:LEU:O	3:LB:193:GLN:NE2	2.36	0.50
3:LD:137:LEU:HD11	3:LD:153:LEU:HD11	1.92	0.50
3:MB:239:THR:HG22	3:MB:252:LEU:HD21	1.93	0.50
3:MD:239:THR:HG22	3:MD:252:LEU:HD21	1.93	0.50
3:NB:269:MET:CE	3:NB:301:MET:HB2	2.39	0.50
2:NE:3:GLU:HG2	2:NE:64:ARG:HH12	1.76	0.50
2:AA:386:GLU:HA	2:AA:389:ALA:HB3	1.92	0.50
3:AB:167:ASN:HA	3:AB:200:GLU:HB3	1.94	0.50
3:AD:167:ASN:HA	3:AD:200:GLU:HB3	1.94	0.50
3:AD:239:THR:HG22	3:AD:252:LEU:HD21	1.93	0.50
2:BA:394:LYS:HZ3	2:BA:397:LEU:HD23	1.76	0.50
3:BB:57:THR:O	3:BB:60:LYS:NZ	2.42	0.50
3:BD:167:ASN:HA	3:BD:200:GLU:HB3	1.94	0.50
3:BD:239:THR:HG22	3:BD:252:LEU:HD21	1.93	0.50
3:BF:330:GLU:O	3:BF:334:ASN:ND2	2.21	0.50
3:CB:137:LEU:HD11	3:CB:153:LEU:HD11	1.92	0.50
3:CD:137:LEU:HD11	3:CD:153:LEU:HD11	1.93	0.50
3:DB:239:THR:HG22	3:DB:252:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:239:THR:HG22	3:DD:252:LEU:HD21	1.93	0.50
2:DE:24:TYR:HA	2:DE:27:GLU:HG2	1.94	0.50
2:DE:172:TYR:OH	2:DE:387:ALA:O	2.28	0.50
2:DE:244:PHE:HB2	2:DE:356:ASN:HD21	1.76	0.50
2:EE:3:GLU:HG2	2:EE:64:ARG:HH12	1.76	0.50
3:GB:324:SER:OG	3:GB:325:MET:N	2.45	0.50
3:GD:239:THR:HG22	3:GD:252:LEU:HD21	1.93	0.50
3:HB:239:THR:HG22	3:HB:252:LEU:HD21	1.93	0.50
3:HD:239:THR:HG22	3:HD:252:LEU:HD21	1.93	0.50
3:IB:276:THR:OG1	7:IB:502:TA1:O07	2.14	0.50
2:JA:100:ALA:O	3:JB:257:VAL:HG21	2.12	0.50
3:JF:239:THR:HG22	3:JF:252:LEU:HD21	1.93	0.50
2:KA:244:PHE:HB2	2:KA:356:ASN:HD21	1.76	0.50
4:KA:501:GTP:PG	3:KB:254:LYS:HZ1	2.32	0.50
2:KC:244:PHE:HB2	2:KC:356:ASN:HD21	1.76	0.50
2:KE:331:ALA:O	2:KE:335:ILE:HG12	2.11	0.50
3:LD:189:LEU:O	3:LD:193:GLN:NE2	2.36	0.50
2:MC:224:TYR:HE1	3:MD:325:MET:HG3	1.77	0.50
2:ME:172:TYR:OH	2:ME:387:ALA:O	2.28	0.50
2:NA:172:TYR:N	2:NA:204:VAL:O	2.27	0.50
2:NA:244:PHE:HB2	2:NA:356:ASN:HD21	1.76	0.50
3:ND:123:ARG:O	3:ND:127:GLU:HG2	2.11	0.50
2:AA:138:PHE:CD1	2:AA:169:PHE:HB2	2.46	0.50
3:AB:269:MET:CE	3:AB:301:MET:HB2	2.39	0.50
2:BA:331:ALA:O	2:BA:335:ILE:HG12	2.11	0.50
2:BE:331:ALA:O	2:BE:335:ILE:HG12	2.11	0.50
2:DA:24:TYR:HA	2:DA:27:GLU:HG2	1.94	0.50
3:DB:167:ASN:HA	3:DB:200:GLU:HB3	1.94	0.50
2:DC:24:TYR:HA	2:DC:27:GLU:HG2	1.94	0.50
2:DC:244:PHE:HB2	2:DC:356:ASN:HD21	1.76	0.50
2:DE:231:ILE:O	2:DE:234:ILE:HG22	2.12	0.50
3:DF:167:ASN:HA	3:DF:200:GLU:HB3	1.94	0.50
3:EB:269:MET:CE	3:EB:301:MET:HB2	2.39	0.50
2:FA:107:HIS:HD1	2:FA:151:SER:HG	1.50	0.50
3:FB:239:THR:HG22	3:FB:252:LEU:HD21	1.93	0.50
3:FD:324:SER:OG	3:FD:325:MET:N	2.45	0.50
3:FF:136:GLN:OE1	3:FF:136:GLN:N	2.35	0.50
2:GE:401:LYS:HD3	3:GF:346:TRP:CE2	2.47	0.50
3:HB:137:LEU:HD11	3:HB:153:LEU:HD11	1.92	0.50
3:HD:137:LEU:HD11	3:HD:153:LEU:HD11	1.93	0.50
3:ID:123:ARG:O	3:ID:127:GLU:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:239:THR:HG22	3:ID:252:LEU:HD21	1.93	0.50
3:IF:239:THR:HG22	3:IF:252:LEU:HD21	1.93	0.50
3:KD:407:TRP:CD2	2:KE:257:THR:HG22	2.47	0.50
2:KE:105:ARG:HH12	3:KF:253:ARG:CD	2.25	0.50
2:LA:401:LYS:HD3	3:LB:346:TRP:NE1	2.22	0.50
2:LA:422:ARG:CB	2:LA:425:MET:HE2	2.38	0.50
2:MA:221:ARG:NE	3:MB:324:SER:HB3	2.26	0.50
2:MC:394:LYS:HZ3	2:MC:397:LEU:HD23	1.76	0.50
2:NA:231:ILE:O	2:NA:234:ILE:HG22	2.12	0.50
3:NB:407:TRP:NE1	2:NC:257:THR:HA	2.27	0.50
2:NE:244:PHE:HB2	2:NE:356:ASN:HD21	1.76	0.50
3:NF:167:ASN:HA	3:NF:200:GLU:HB3	1.94	0.50
1:1D:30:SER:OG	1:1D:48:GLU:OE2	2.24	0.50
1:1D:54:PHE:HB2	1:1D:57:MET:CE	2.40	0.50
2:AC:262:TYR:HB2	2:AC:265:ILE:HD13	1.94	0.50
2:AC:422:ARG:CB	2:AC:425:MET:HE2	2.38	0.50
3:AF:167:ASN:HA	3:AF:200:GLU:HB3	1.94	0.50
3:AF:239:THR:HG22	3:AF:252:LEU:HD21	1.93	0.50
2:BA:172:TYR:OH	2:BA:387:ALA:O	2.28	0.50
3:BB:167:ASN:HA	3:BB:200:GLU:HB3	1.94	0.50
2:BE:3:GLU:HG2	2:BE:64:ARG:HH12	1.76	0.50
2:CA:371:VAL:HG12	2:CA:373:ARG:H	1.76	0.50
2:CE:24:TYR:HA	2:CE:27:GLU:HG2	1.94	0.50
2:DA:231:ILE:O	2:DA:234:ILE:HG22	2.12	0.50
2:DA:244:PHE:HB2	2:DA:356:ASN:HD21	1.76	0.50
2:EA:262:TYR:HB2	2:EA:265:ILE:HD13	1.94	0.50
2:EC:244:PHE:HB2	2:EC:356:ASN:HD21	1.76	0.50
2:EC:331:ALA:O	2:EC:335:ILE:HG12	2.11	0.50
3:EF:57:THR:O	3:EF:60:LYS:NZ	2.42	0.50
3:FB:324:SER:OG	3:FB:325:MET:N	2.45	0.50
3:FD:136:GLN:OE1	3:FD:136:GLN:N	2.35	0.50
2:GA:262:TYR:HB2	2:GA:265:ILE:HD13	1.94	0.50
2:GC:262:TYR:HB2	2:GC:265:ILE:HD13	1.94	0.50
3:GF:330:GLU:O	3:GF:334:ASN:ND2	2.21	0.50
2:HC:24:TYR:HA	2:HC:27:GLU:HG2	1.94	0.50
2:HE:24:TYR:HA	2:HE:27:GLU:HG2	1.94	0.50
2:JA:244:PHE:HB2	2:JA:356:ASN:HD21	1.76	0.50
2:JE:244:PHE:HB2	2:JE:356:ASN:HD21	1.76	0.50
2:JE:401:LYS:CD	3:JF:346:TRP:HE1	2.24	0.50
2:KA:331:ALA:O	2:KA:335:ILE:HG12	2.11	0.50
3:KB:100:GLY:HA2	2:KC:254:GLU:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KC:331:ALA:O	2:KC:335:ILE:HG12	2.11	0.50
4:KC:501:GTP:PG	3:KD:254:LYS:HZ1	2.34	0.50
3:LB:137:LEU:HD11	3:LB:153:LEU:HD11	1.93	0.50
3:LF:189:LEU:O	3:LF:193:GLN:NE2	2.36	0.50
3:LF:269:MET:HE1	3:LF:303:ALA:N	2.26	0.50
2:ME:231:ILE:O	2:ME:234:ILE:HG22	2.12	0.50
3:NB:69:ASP:OD2	3:NB:74:THR:OG1	2.18	0.50
2:NC:231:ILE:O	2:NC:234:ILE:HG22	2.12	0.50
2:NE:231:ILE:O	2:NE:234:ILE:HG22	2.12	0.50
1:1A:82:LYS:HA	1:1A:85:LYS:HZ3	1.77	0.50
3:BF:239:THR:HG22	3:BF:252:LEU:HD21	1.93	0.50
2:CA:24:TYR:HA	2:CA:27:GLU:HG2	1.94	0.50
3:CB:324:SER:OG	3:CB:325:MET:N	2.45	0.50
2:CE:262:TYR:HB2	2:CE:265:ILE:HD13	1.94	0.50
2:CE:400:ALA:HB3	3:CF:346:TRP:HH2	1.77	0.50
2:DC:231:ILE:O	2:DC:234:ILE:HG22	2.12	0.50
2:EC:172:TYR:N	2:EC:204:VAL:O	2.27	0.50
2:EC:262:TYR:HB2	2:EC:265:ILE:HD13	1.94	0.50
3:FD:239:THR:HG22	3:FD:252:LEU:HD21	1.93	0.50
2:FE:331:ALA:O	2:FE:335:ILE:HG12	2.11	0.50
3:FF:324:SER:OG	3:FF:325:MET:N	2.45	0.50
3:GB:123:ARG:O	3:GB:127:GLU:HG2	2.11	0.50
3:GD:123:ARG:O	3:GD:127:GLU:HG2	2.11	0.50
2:GE:262:TYR:HB2	2:GE:265:ILE:HD13	1.94	0.50
2:HA:24:TYR:HA	2:HA:27:GLU:HG2	1.94	0.50
3:HB:210:TYR:HB3	3:HB:214:PHE:CE2	2.47	0.50
2:HE:101:ASN:N	3:HF:254:LYS:HZ3	2.10	0.50
2:IA:401:LYS:HE3	3:IB:346:TRP:HE1	1.77	0.50
3:IB:123:ARG:O	3:IB:127:GLU:HG2	2.11	0.50
3:ID:276:THR:OG1	7:ID:502:TA1:O07	2.14	0.50
3:KB:181:VAL:HG13	2:KC:349:THR:CG2	2.42	0.50
3:KB:210:TYR:HB3	3:KB:214:PHE:CE2	2.47	0.50
3:KD:210:TYR:HB3	3:KD:214:PHE:CE2	2.47	0.50
2:KE:221:ARG:NH2	3:KF:327:GLU:OE2	2.45	0.50
2:KE:244:PHE:HB2	2:KE:356:ASN:HD21	1.76	0.50
3:LB:88:ARG:HH12	3:MB:283:TYR:HB2	1.75	0.50
2:LC:244:PHE:HB2	2:LC:356:ASN:HD21	1.76	0.50
2:MA:101:ASN:H	3:MB:254:LYS:HZ2	1.60	0.50
2:MA:231:ILE:O	2:MA:234:ILE:HG22	2.12	0.50
2:MC:231:ILE:O	2:MC:234:ILE:HG22	2.12	0.50
3:MF:210:TYR:HB3	3:MF:214:PHE:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:239:THR:HG22	3:MF:252:LEU:HD21	1.93	0.50
3:NB:212:ILE:O	3:NB:216:THR:OG1	2.23	0.50
1:1B:81:ARG:O	1:1B:82:LYS:HD3	2.12	0.49
1:1C:54:PHE:HB2	1:1C:57:MET:CE	2.40	0.49
1:1C:81:ARG:O	1:1C:82:LYS:HD3	2.12	0.49
2:AA:262:TYR:HB2	2:AA:265:ILE:HD13	1.94	0.49
2:AC:251:ASP:OD1	2:AC:252:LEU:N	2.45	0.49
2:AE:251:ASP:OD1	2:AE:252:LEU:N	2.45	0.49
2:AE:262:TYR:HB2	2:AE:265:ILE:HD13	1.94	0.49
3:AF:210:TYR:HB3	3:AF:214:PHE:CE2	2.47	0.49
2:BA:262:TYR:HB2	2:BA:265:ILE:HD13	1.94	0.49
3:BB:101:ASN:ND2	2:BC:254:GLU:OE2	2.45	0.49
3:BD:60:LYS:HE3	3:CD:282:GLN:O	2.12	0.49
3:BD:210:TYR:HB3	3:BD:214:PHE:CE2	2.47	0.49
3:BF:210:TYR:HB3	3:BF:214:PHE:CE2	2.47	0.49
3:BF:324:SER:OG	3:BF:325:MET:N	2.45	0.49
2:CA:262:TYR:HB2	2:CA:265:ILE:HD13	1.94	0.49
3:CB:239:THR:HG22	3:CB:252:LEU:HD21	1.93	0.49
2:CC:262:TYR:HB2	2:CC:265:ILE:HD13	1.94	0.49
3:CD:210:TYR:HB3	3:CD:214:PHE:CE2	2.47	0.49
3:CD:324:SER:OG	3:CD:325:MET:N	2.45	0.49
3:CF:167:ASN:HA	3:CF:200:GLU:HB3	1.94	0.49
3:CF:324:SER:OG	3:CF:325:MET:N	2.45	0.49
2:DA:294:ALA:O	2:DA:300:ASN:ND2	2.40	0.49
2:EA:244:PHE:HB2	2:EA:356:ASN:HD21	1.76	0.49
3:EB:57:THR:O	3:EB:60:LYS:NZ	2.42	0.49
3:EB:167:ASN:HA	3:EB:200:GLU:HB3	1.94	0.49
3:ED:167:ASN:HA	3:ED:200:GLU:HB3	1.94	0.49
2:EE:262:TYR:HB2	2:EE:265:ILE:HD13	1.94	0.49
3:EF:167:ASN:HA	3:EF:200:GLU:HB3	1.94	0.49
2:FA:262:TYR:HB2	2:FA:265:ILE:HD13	1.94	0.49
3:FB:136:GLN:OE1	3:FB:136:GLN:N	2.35	0.49
3:FD:167:ASN:HA	3:FD:200:GLU:HB3	1.94	0.49
2:GA:251:ASP:OD1	2:GA:252:LEU:N	2.46	0.49
3:GF:239:THR:HG22	3:GF:252:LEU:HD21	1.93	0.49
3:HF:239:THR:HG22	3:HF:252:LEU:HD21	1.93	0.49
3:IB:210:TYR:HB3	3:IB:214:PHE:CE2	2.47	0.49
2:IE:222:PRO:CD	3:IF:326:LYS:NZ	2.75	0.49
2:JA:24:TYR:HA	2:JA:27:GLU:HG2	1.93	0.49
3:JB:137:LEU:HD11	3:JB:153:LEU:HD11	1.93	0.49
2:JC:224:TYR:CE1	3:JD:325:MET:HG3	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KA:222:PRO:CG	3:KB:326:LYS:HZ1	2.24	0.49
2:KA:294:ALA:O	2:KA:300:ASN:ND2	2.40	0.49
3:KB:57:THR:O	3:KB:60:LYS:NZ	2.42	0.49
2:KE:105:ARG:NH1	3:KF:253:ARG:HD2	2.25	0.49
3:KF:210:TYR:HB3	3:KF:214:PHE:CE2	2.47	0.49
2:LA:244:PHE:HB2	2:LA:356:ASN:HD21	1.76	0.49
3:LB:123:ARG:O	3:LB:127:GLU:HG2	2.11	0.49
2:LE:244:PHE:HB2	2:LE:356:ASN:HD21	1.76	0.49
2:ME:262:TYR:HB2	2:ME:265:ILE:HD13	1.94	0.49
3:NB:123:ARG:O	3:NB:127:GLU:HG2	2.11	0.49
2:NC:24:TYR:HA	2:NC:27:GLU:HG2	1.93	0.49
2:NC:172:TYR:N	2:NC:204:VAL:O	2.27	0.49
2:NC:244:PHE:HB2	2:NC:356:ASN:HD21	1.76	0.49
3:ND:167:ASN:HA	3:ND:200:GLU:HB3	1.94	0.49
2:NE:280:LYS:HE3	2:NE:280:LYS:CA	2.42	0.49
2:AA:251:ASP:OD1	2:AA:252:LEU:N	2.46	0.49
2:BA:3:GLU:HG2	2:BA:64:ARG:HH12	1.76	0.49
2:BA:280:LYS:HE3	2:BA:280:LYS:CA	2.42	0.49
3:BD:324:SER:OG	3:BD:325:MET:N	2.45	0.49
2:CA:172:TYR:N	2:CA:204:VAL:O	2.27	0.49
3:CB:167:ASN:HA	3:CB:200:GLU:HB3	1.94	0.49
3:CB:332:MET:SD	3:CB:351:VAL:HG21	2.53	0.49
2:CC:24:TYR:HA	2:CC:27:GLU:HG2	1.94	0.49
3:CD:239:THR:HG22	3:CD:252:LEU:HD21	1.93	0.49
3:CF:239:THR:HG22	3:CF:252:LEU:HD21	1.93	0.49
3:EB:88:ARG:NH2	3:FB:283:TYR:HB3	2.27	0.49
2:EE:172:TYR:OH	2:EE:387:ALA:O	2.28	0.49
3:EF:239:THR:HG22	3:EF:252:LEU:HD21	1.93	0.49
3:FB:167:ASN:HA	3:FB:200:GLU:HB3	1.94	0.49
2:FC:206:ASN:OD1	2:FC:207:GLU:N	2.46	0.49
2:FC:262:TYR:HB2	2:FC:265:ILE:HD13	1.94	0.49
2:FC:331:ALA:O	2:FC:335:ILE:HG12	2.11	0.49
2:FE:251:ASP:OD1	2:FE:252:LEU:N	2.45	0.49
2:FE:262:TYR:HB2	2:FE:265:ILE:HD13	1.94	0.49
3:FF:167:ASN:HA	3:FF:200:GLU:HB3	1.94	0.49
2:GA:331:ALA:O	2:GA:335:ILE:HG12	2.11	0.49
2:GA:401:LYS:HD3	3:GB:346:TRP:HE1	1.76	0.49
2:GC:251:ASP:OD1	2:GC:252:LEU:N	2.46	0.49
2:GE:251:ASP:OD1	2:GE:252:LEU:N	2.46	0.49
2:HA:331:ALA:O	2:HA:335:ILE:HG12	2.11	0.49
3:HD:210:TYR:HB3	3:HD:214:PHE:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:331:ALA:O	2:HE:335:ILE:HG12	2.11	0.49
3:IB:324:SER:OG	3:IB:325:MET:N	2.45	0.49
3:ID:210:TYR:HB3	3:ID:214:PHE:CE2	2.47	0.49
3:ID:324:SER:OG	3:ID:325:MET:N	2.45	0.49
2:JC:24:TYR:HA	2:JC:27:GLU:HG2	1.94	0.49
2:JC:244:PHE:HB2	2:JC:356:ASN:HD21	1.76	0.49
2:JE:24:TYR:HA	2:JE:27:GLU:HG2	1.93	0.49
2:KA:422:ARG:CB	2:KA:425:MET:HE2	2.38	0.49
4:KA:501:GTP:O1G	3:KB:254:LYS:NZ	2.36	0.49
3:KD:57:THR:O	3:KD:60:LYS:NZ	2.42	0.49
3:LB:57:THR:O	3:LB:60:LYS:NZ	2.42	0.49
2:LC:262:TYR:HB2	2:LC:265:ILE:HD13	1.94	0.49
4:LC:501:GTP:PG	3:LD:254:LYS:HZ1	2.34	0.49
3:LD:123:ARG:O	3:LD:127:GLU:HG2	2.11	0.49
3:LF:60:LYS:HE3	3:MF:282:GLN:OE1	2.12	0.49
2:MA:262:TYR:HB2	2:MA:265:ILE:HD13	1.94	0.49
2:MC:262:TYR:HB2	2:MC:265:ILE:HD13	1.94	0.49
2:NA:24:TYR:HA	2:NA:27:GLU:HG2	1.94	0.49
2:NA:206:ASN:OD1	2:NA:207:GLU:N	2.46	0.49
2:NA:262:TYR:HB2	2:NA:265:ILE:HD13	1.94	0.49
3:NB:167:ASN:HA	3:NB:200:GLU:HB3	1.94	0.49
3:ND:210:TYR:HB3	3:ND:214:PHE:CE2	2.47	0.49
2:NE:251:ASP:OD1	2:NE:252:LEU:N	2.45	0.49
1:1A:81:ARG:O	1:1A:82:LYS:HD3	2.12	0.49
2:AA:231:ILE:O	2:AA:234:ILE:HG22	2.12	0.49
3:AD:210:TYR:HB3	3:AD:214:PHE:CE2	2.47	0.49
2:AE:398:MET:HG3	3:AF:347:ILE:CD1	2.42	0.49
2:BA:251:ASP:OD1	2:BA:252:LEU:N	2.45	0.49
3:BB:210:TYR:HB3	3:BB:214:PHE:CE2	2.47	0.49
2:BC:231:ILE:O	2:BC:234:ILE:HG22	2.12	0.49
2:BC:262:TYR:HB2	2:BC:265:ILE:HD13	1.94	0.49
2:BC:280:LYS:HE3	2:BC:280:LYS:CA	2.42	0.49
2:BE:231:ILE:O	2:BE:234:ILE:HG22	2.12	0.49
2:BE:280:LYS:HE3	2:BE:280:LYS:CA	2.42	0.49
3:CB:101:ASN:ND2	2:CC:254:GLU:OE2	2.44	0.49
3:CB:210:TYR:HB3	3:CB:214:PHE:CE2	2.47	0.49
3:CD:167:ASN:HA	3:CD:200:GLU:HB3	1.94	0.49
3:CF:210:TYR:HB3	3:CF:214:PHE:CE2	2.47	0.49
3:CF:332:MET:SD	3:CF:351:VAL:HG21	2.53	0.49
3:DF:239:THR:HG22	3:DF:252:LEU:HD21	1.93	0.49
2:EA:280:LYS:HE3	2:EA:280:LYS:CA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:244:PHE:HB2	2:EE:356:ASN:HD21	1.76	0.49
2:FA:24:TYR:HA	2:FA:27:GLU:HG2	1.94	0.49
2:FA:206:ASN:OD1	2:FA:207:GLU:N	2.46	0.49
2:FE:206:ASN:OD1	2:FE:207:GLU:N	2.46	0.49
3:FF:239:THR:HG22	3:FF:252:LEU:HD21	1.93	0.49
2:GC:331:ALA:O	2:GC:335:ILE:HG12	2.11	0.49
3:GD:179:ASP:O	2:GE:352:LYS:HD2	2.12	0.49
2:GE:331:ALA:O	2:GE:335:ILE:HG12	2.11	0.49
3:HB:332:MET:SD	3:HB:351:VAL:HG21	2.53	0.49
3:HD:332:MET:SD	3:HD:351:VAL:HG21	2.53	0.49
2:HE:244:PHE:HB2	2:HE:356:ASN:HD21	1.76	0.49
2:IA:262:TYR:HB2	2:IA:265:ILE:HD13	1.94	0.49
3:IF:324:SER:OG	3:IF:325:MET:N	2.45	0.49
2:JA:262:TYR:HB2	2:JA:265:ILE:HD13	1.94	0.49
3:JB:210:TYR:HB3	3:JB:214:PHE:CE2	2.47	0.49
2:JC:262:TYR:HB2	2:JC:265:ILE:HD13	1.94	0.49
2:KE:294:ALA:O	2:KE:300:ASN:ND2	2.40	0.49
3:LB:269:MET:HE1	3:LB:303:ALA:N	2.26	0.49
3:LD:269:MET:HE1	3:LD:303:ALA:N	2.26	0.49
3:LF:210:TYR:HB3	3:LF:214:PHE:CE2	2.47	0.49
3:MB:167:ASN:HA	3:MB:200:GLU:HB3	1.94	0.49
3:MF:167:ASN:HA	3:MF:200:GLU:HB3	1.94	0.49
2:NC:206:ASN:OD1	2:NC:207:GLU:N	2.46	0.49
2:NC:251:ASP:OD1	2:NC:252:LEU:N	2.46	0.49
2:NE:24:TYR:HA	2:NE:27:GLU:HG2	1.94	0.49
2:NE:206:ASN:OD1	2:NE:207:GLU:N	2.46	0.49
3:NF:210:TYR:HB3	3:NF:214:PHE:CE2	2.47	0.49
1:1C:112:ILE:HB	1:1C:113:PRO:HD3	1.95	0.49
1:1D:112:ILE:HB	1:1D:113:PRO:HD3	1.95	0.49
3:AB:210:TYR:HB3	3:AB:214:PHE:CE2	2.47	0.49
3:AB:332:MET:SD	3:AB:351:VAL:HG21	2.53	0.49
2:AC:231:ILE:O	2:AC:234:ILE:HG22	2.12	0.49
3:AD:332:MET:SD	3:AD:351:VAL:HG21	2.53	0.49
2:AE:231:ILE:O	2:AE:234:ILE:HG22	2.12	0.49
3:AF:69:ASP:OD2	3:AF:74:THR:OG1	2.18	0.49
2:CA:206:ASN:OD1	2:CA:207:GLU:N	2.46	0.49
3:CD:332:MET:SD	3:CD:351:VAL:HG21	2.53	0.49
2:CE:206:ASN:OD1	2:CE:207:GLU:N	2.46	0.49
3:DB:221:THR:HA	2:DC:326:LYS:HZ3	1.77	0.49
2:DC:294:ALA:O	2:DC:300:ASN:ND2	2.40	0.49
2:EE:224:TYR:HD1	3:EF:325:MET:HE2	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FA:251:ASP:OD1	2:FA:252:LEU:N	2.46	0.49
2:FA:331:ALA:O	2:FA:335:ILE:HG12	2.11	0.49
2:FC:251:ASP:OD1	2:FC:252:LEU:N	2.46	0.49
3:GF:332:MET:SD	3:GF:351:VAL:HG21	2.53	0.49
2:HC:244:PHE:HB2	2:HC:356:ASN:HD21	1.76	0.49
2:HC:331:ALA:O	2:HC:335:ILE:HG12	2.11	0.49
2:HE:262:TYR:HB2	2:HE:265:ILE:HD13	1.94	0.49
2:IA:24:TYR:HA	2:IA:27:GLU:HG2	1.94	0.49
2:IC:224:TYR:CE1	3:ID:325:MET:HG3	2.47	0.49
2:IE:24:TYR:HA	2:IE:27:GLU:HG2	1.93	0.49
3:IF:210:TYR:HB3	3:IF:214:PHE:CE2	2.47	0.49
3:JD:210:TYR:HB3	3:JD:214:PHE:CE2	2.47	0.49
2:JE:422:ARG:CB	2:JE:425:MET:HE2	2.38	0.49
3:JF:210:TYR:HB3	3:JF:214:PHE:CE2	2.47	0.49
2:LA:24:TYR:HA	2:LA:27:GLU:HG2	1.94	0.49
2:LA:262:TYR:HB2	2:LA:265:ILE:HD13	1.94	0.49
2:LC:24:TYR:HA	2:LC:27:GLU:HG2	1.94	0.49
3:LD:210:TYR:HB3	3:LD:214:PHE:CE2	2.47	0.49
2:LE:24:TYR:HA	2:LE:27:GLU:HG2	1.93	0.49
2:LE:262:TYR:HB2	2:LE:265:ILE:HD13	1.94	0.49
2:MA:206:ASN:OD1	2:MA:207:GLU:N	2.46	0.49
3:MB:210:TYR:HB3	3:MB:214:PHE:CE2	2.47	0.49
3:MB:332:MET:SD	3:MB:351:VAL:HG21	2.53	0.49
3:MD:210:TYR:HB3	3:MD:214:PHE:CE2	2.47	0.49
2:NA:251:ASP:OD1	2:NA:252:LEU:N	2.45	0.49
3:NB:210:TYR:HB3	3:NB:214:PHE:CE2	2.47	0.49
2:NC:262:TYR:HB2	2:NC:265:ILE:HD13	1.94	0.49
2:NE:262:TYR:HB2	2:NE:265:ILE:HD13	1.94	0.49
1:1A:112:ILE:HB	1:1A:113:PRO:HD3	1.95	0.49
1:1C:30:SER:OG	1:1C:48:GLU:OE2	2.24	0.49
1:1D:81:ARG:O	1:1D:82:LYS:HD3	2.12	0.49
1:1E:81:ARG:O	1:1E:82:LYS:HD3	2.12	0.49
2:AA:105:ARG:HH12	3:AB:253:ARG:HD2	1.77	0.49
2:AA:206:ASN:OD1	2:AA:207:GLU:N	2.46	0.49
2:AC:206:ASN:OD1	2:AC:207:GLU:N	2.46	0.49
2:AE:206:ASN:OD1	2:AE:207:GLU:N	2.46	0.49
3:BB:324:SER:OG	3:BB:325:MET:N	2.45	0.49
2:BC:172:TYR:OH	2:BC:387:ALA:O	2.28	0.49
2:BC:251:ASP:OD1	2:BC:252:LEU:N	2.46	0.49
3:BD:332:MET:SD	3:BD:351:VAL:HG21	2.53	0.49
2:BE:172:TYR:OH	2:BE:387:ALA:O	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:251:ASP:OD1	2:BE:252:LEU:N	2.46	0.49
2:BE:262:TYR:HB2	2:BE:265:ILE:HD13	1.94	0.49
2:CC:206:ASN:OD1	2:CC:207:GLU:N	2.46	0.49
2:CC:280:LYS:HE3	2:CC:280:LYS:CA	2.42	0.49
2:DA:262:TYR:HB2	2:DA:265:ILE:HD13	1.94	0.49
2:DC:262:TYR:HB2	2:DC:265:ILE:HD13	1.94	0.49
2:DE:294:ALA:O	2:DE:300:ASN:ND2	2.40	0.49
2:EC:280:LYS:HE3	2:EC:280:LYS:CA	2.42	0.49
2:FA:280:LYS:HE3	2:FA:280:LYS:CA	2.42	0.49
3:GB:210:TYR:HB3	3:GB:214:PHE:CE2	2.47	0.49
3:GD:210:TYR:HB3	3:GD:214:PHE:CE2	2.47	0.49
3:GD:332:MET:SD	3:GD:351:VAL:HG21	2.53	0.49
3:GF:123:ARG:O	3:GF:127:GLU:HG2	2.11	0.49
2:HA:231:ILE:O	2:HA:234:ILE:HG22	2.12	0.49
3:HF:210:TYR:HB3	3:HF:214:PHE:CE2	2.47	0.49
3:HF:332:MET:SD	3:HF:351:VAL:HG21	2.53	0.49
2:IA:105:ARG:HH12	3:IB:253:ARG:HD2	1.78	0.49
2:IA:107:HIS:ND1	2:IA:151:SER:OG	2.43	0.49
2:IC:221:ARG:CZ	3:ID:327:GLU:OE2	2.60	0.49
2:IC:222:PRO:CD	3:ID:326:LYS:NZ	2.75	0.49
2:IC:244:PHE:HB2	2:IC:356:ASN:HD21	1.76	0.49
2:IE:57:GLY:H	2:JE:285:GLN:CG	2.26	0.49
3:IF:69:ASP:OD2	3:IF:74:THR:OG1	2.18	0.49
2:JE:262:TYR:HB2	2:JE:265:ILE:HD13	1.94	0.49
2:KC:294:ALA:O	2:KC:300:ASN:ND2	2.40	0.49
3:LB:210:TYR:HB3	3:LB:214:PHE:CE2	2.47	0.49
3:LD:167:ASN:HA	3:LD:200:GLU:HB3	1.94	0.49
3:LF:123:ARG:O	3:LF:127:GLU:HG2	2.11	0.49
3:LF:167:ASN:HA	3:LF:200:GLU:HB3	1.94	0.49
3:MD:332:MET:SD	3:MD:351:VAL:HG21	2.53	0.49
2:ME:206:ASN:OD1	2:ME:207:GLU:N	2.46	0.49
1:1A:54:PHE:HB2	1:1A:57:MET:CE	2.40	0.49
1:1A:63:TYR:C	2:AA:308:ARG:NE	2.71	0.49
1:1B:54:PHE:HB2	1:1B:57:MET:CE	2.40	0.49
3:AF:332:MET:SD	3:AF:351:VAL:HG21	2.53	0.49
3:BF:332:MET:SD	3:BF:351:VAL:HG21	2.53	0.49
2:CE:280:LYS:HE3	2:CE:280:LYS:CA	2.42	0.49
2:DA:280:LYS:HE3	2:DA:280:LYS:CA	2.42	0.49
3:DD:332:MET:SD	3:DD:351:VAL:HG21	2.53	0.49
2:DE:262:TYR:HB2	2:DE:265:ILE:HD13	1.94	0.49
2:DE:280:LYS:HE3	2:DE:280:LYS:CA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:210:TYR:HB3	3:DF:214:PHE:CE2	2.47	0.49
3:EB:210:TYR:HB3	3:EB:214:PHE:CE2	2.47	0.49
2:EC:231:ILE:O	2:EC:234:ILE:HG22	2.12	0.49
2:EC:251:ASP:OD1	2:EC:252:LEU:N	2.46	0.49
2:EE:280:LYS:HE3	2:EE:280:LYS:CA	2.42	0.49
3:EF:210:TYR:HB3	3:EF:214:PHE:CE2	2.47	0.49
3:GB:167:ASN:HA	3:GB:200:GLU:HB3	1.94	0.49
3:GD:167:ASN:HA	3:GD:200:GLU:HB3	1.94	0.49
2:HA:244:PHE:HB2	2:HA:356:ASN:HD21	1.76	0.49
2:HA:262:TYR:HB2	2:HA:265:ILE:HD13	1.94	0.49
2:HC:262:TYR:HB2	2:HC:265:ILE:HD13	1.94	0.49
2:HE:231:ILE:O	2:HE:234:ILE:HG22	2.12	0.49
2:IE:262:TYR:HB2	2:IE:265:ILE:HD13	1.94	0.49
2:KA:231:ILE:O	2:KA:234:ILE:HG22	2.12	0.49
3:KB:407:TRP:CD2	2:KC:257:THR:HG22	2.48	0.49
2:KE:262:TYR:HB2	2:KE:265:ILE:HD13	1.94	0.49
3:LB:167:ASN:HA	3:LB:200:GLU:HB3	1.94	0.49
2:MC:206:ASN:OD1	2:MC:207:GLU:N	2.46	0.49
2:ME:244:PHE:HB2	2:ME:356:ASN:HD21	1.76	0.49
3:ND:332:MET:SD	3:ND:351:VAL:HG21	2.53	0.49
2:NE:172:TYR:N	2:NE:204:VAL:O	2.27	0.49
3:NF:332:MET:SD	3:NF:351:VAL:HG21	2.53	0.49
1:1B:112:ILE:HB	1:1B:113:PRO:HD3	1.95	0.49
2:BA:206:ASN:OD1	2:BA:207:GLU:N	2.46	0.49
2:BA:231:ILE:O	2:BA:234:ILE:HG22	2.12	0.49
3:BB:332:MET:SD	3:BB:351:VAL:HG21	2.53	0.49
2:BE:206:ASN:OD1	2:BE:207:GLU:N	2.46	0.49
2:CA:280:LYS:HE3	2:CA:280:LYS:CA	2.42	0.49
2:DA:172:TYR:N	2:DA:204:VAL:O	2.27	0.49
3:DB:332:MET:SD	3:DB:351:VAL:HG21	2.53	0.49
2:EA:206:ASN:OD1	2:EA:207:GLU:N	2.46	0.49
3:EB:324:SER:OG	3:EB:325:MET:N	2.45	0.49
2:EC:206:ASN:OD1	2:EC:207:GLU:N	2.46	0.49
3:ED:210:TYR:HB3	3:ED:214:PHE:CE2	2.47	0.49
2:EE:206:ASN:OD1	2:EE:207:GLU:N	2.46	0.49
2:EE:251:ASP:OD1	2:EE:252:LEU:N	2.46	0.49
2:FC:24:TYR:HA	2:FC:27:GLU:HG2	1.94	0.49
2:HC:231:ILE:O	2:HC:234:ILE:HG22	2.12	0.49
2:IC:24:TYR:HA	2:IC:27:GLU:HG2	1.94	0.49
2:IC:222:PRO:HD2	3:ID:326:LYS:HE2	1.94	0.49
2:IC:262:TYR:HB2	2:IC:265:ILE:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:167:ASN:HA	3:ID:200:GLU:HB3	1.94	0.49
2:JC:251:ASP:OD1	2:JC:252:LEU:N	2.46	0.49
2:JC:422:ARG:CB	2:JC:425:MET:HE2	2.38	0.49
2:JE:222:PRO:CG	3:JF:326:LYS:HZ1	2.26	0.49
2:KC:262:TYR:HB2	2:KC:265:ILE:HD13	1.94	0.49
3:KD:167:ASN:HA	3:KD:200:GLU:HB3	1.94	0.49
3:KF:189:LEU:O	3:KF:193:GLN:NE2	2.36	0.49
3:KF:332:MET:SD	3:KF:351:VAL:HG21	2.53	0.49
2:LA:206:ASN:OD1	2:LA:207:GLU:N	2.46	0.49
2:LA:231:ILE:O	2:LA:234:ILE:HG22	2.12	0.49
2:LC:206:ASN:OD1	2:LC:207:GLU:N	2.46	0.49
3:MD:167:ASN:HA	3:MD:200:GLU:HB3	1.94	0.49
3:ND:69:ASP:OD2	3:ND:74:THR:OG1	2.18	0.49
1:1C:82:LYS:HA	1:1C:85:LYS:HZ3	1.78	0.49
3:BB:394:GLN:HE22	2:BC:348:PRO:CG	2.14	0.49
2:BC:206:ASN:OD1	2:BC:207:GLU:N	2.46	0.49
2:DC:280:LYS:HE3	2:DC:280:LYS:CA	2.42	0.49
2:EA:231:ILE:O	2:EA:234:ILE:HG22	2.12	0.49
3:ED:324:SER:OG	3:ED:325:MET:N	2.45	0.49
3:FB:210:TYR:HB3	3:FB:214:PHE:CE2	2.47	0.49
2:GA:172:TYR:N	2:GA:204:VAL:O	2.27	0.49
3:GB:289:PRO:O	3:GB:292:THR:OG1	2.23	0.49
3:GB:332:MET:SD	3:GB:351:VAL:HG21	2.52	0.49
2:GE:172:TYR:N	2:GE:204:VAL:O	2.27	0.49
2:HA:251:ASP:OD1	2:HA:252:LEU:N	2.46	0.49
3:HF:27:GLU:OE1	7:HF:502:TA1:H421	2.13	0.49
3:IB:332:MET:SD	3:IB:351:VAL:HG21	2.53	0.49
2:IC:206:ASN:OD1	2:IC:207:GLU:N	2.46	0.49
2:IC:231:ILE:O	2:IC:234:ILE:HG22	2.12	0.49
2:IE:206:ASN:OD1	2:IE:207:GLU:N	2.46	0.49
2:IE:244:PHE:HB2	2:IE:356:ASN:HD21	1.76	0.49
2:JA:231:ILE:O	2:JA:234:ILE:HG22	2.12	0.49
2:JA:422:ARG:CB	2:JA:425:MET:HE2	2.38	0.49
2:JE:231:ILE:O	2:JE:234:ILE:HG22	2.12	0.49
2:KA:251:ASP:OD1	2:KA:252:LEU:N	2.45	0.49
2:KA:262:TYR:HB2	2:KA:265:ILE:HD13	1.94	0.49
3:KB:167:ASN:HA	3:KB:200:GLU:HB3	1.94	0.49
3:KD:332:MET:SD	3:KD:351:VAL:HG21	2.53	0.49
2:LE:206:ASN:OD1	2:LE:207:GLU:N	2.46	0.49
3:LF:332:MET:SD	3:LF:351:VAL:HG21	2.53	0.49
2:MA:244:PHE:HB2	2:MA:356:ASN:HD21	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MB:221:THR:HA	2:MC:326:LYS:HZ1	1.78	0.49
2:MC:244:PHE:HB2	2:MC:356:ASN:HD21	1.76	0.49
2:ME:251:ASP:OD1	2:ME:252:LEU:N	2.46	0.49
3:MF:332:MET:SD	3:MF:351:VAL:HG21	2.53	0.49
3:NB:332:MET:SD	3:NB:351:VAL:HG21	2.53	0.49
3:NF:69:ASP:OD2	3:NF:74:THR:OG1	2.18	0.49
1:1D:82:LYS:HA	1:1D:85:LYS:HZ3	1.78	0.49
3:CD:57:THR:O	3:CD:60:LYS:NZ	2.42	0.49
2:CE:172:TYR:N	2:CE:204:VAL:O	2.27	0.49
3:DB:210:TYR:HB3	3:DB:214:PHE:CE2	2.47	0.49
3:DD:210:TYR:HB3	3:DD:214:PHE:CE2	2.47	0.49
2:DE:400:ALA:HB3	3:DF:346:TRP:CH2	2.41	0.49
2:FE:24:TYR:HA	2:FE:27:GLU:HG2	1.94	0.49
2:GE:206:ASN:OD1	2:GE:207:GLU:N	2.46	0.49
3:GF:210:TYR:HB3	3:GF:214:PHE:CE2	2.47	0.49
2:HA:172:TYR:OH	2:HA:387:ALA:O	2.28	0.49
2:HC:206:ASN:OD1	2:HC:207:GLU:N	2.46	0.49
3:HD:27:GLU:OE1	7:HD:502:TA1:H421	2.13	0.49
2:HE:206:ASN:OD1	2:HE:207:GLU:N	2.46	0.49
2:HE:251:ASP:OD1	2:HE:252:LEU:N	2.46	0.49
2:HE:401:LYS:CD	3:HF:346:TRP:HE1	2.22	0.49
2:IA:244:PHE:HB2	2:IA:356:ASN:HD21	1.76	0.49
3:IB:69:ASP:OD2	3:IB:74:THR:OG1	2.18	0.49
3:IF:167:ASN:HA	3:IF:200:GLU:HB3	1.94	0.49
2:JA:251:ASP:OD1	2:JA:252:LEU:N	2.46	0.49
2:JC:231:ILE:O	2:JC:234:ILE:HG22	2.12	0.49
2:JE:251:ASP:OD1	2:JE:252:LEU:N	2.46	0.49
2:JE:407:TRP:HZ2	3:JF:260:VAL:HG13	1.78	0.49
3:KB:189:LEU:O	3:KB:193:GLN:NE2	2.36	0.49
3:KB:250:ALA:HA	3:KB:254:LYS:HG3	1.95	0.49
2:KC:231:ILE:O	2:KC:234:ILE:HG22	2.12	0.49
2:KC:251:ASP:OD1	2:KC:252:LEU:N	2.45	0.49
2:KE:231:ILE:O	2:KE:234:ILE:HG22	2.12	0.49
3:KF:167:ASN:HA	3:KF:200:GLU:HB3	1.94	0.49
3:LB:101:ASN:ND2	2:LC:254:GLU:OE2	2.46	0.49
3:LB:332:MET:SD	3:LB:351:VAL:HG21	2.53	0.49
2:LC:231:ILE:O	2:LC:234:ILE:HG22	2.12	0.49
3:LD:332:MET:SD	3:LD:351:VAL:HG21	2.53	0.49
2:MC:251:ASP:OD1	2:MC:252:LEU:N	2.45	0.49
1:1B:63:TYR:O	2:AC:308:ARG:NH2	2.45	0.49
1:1E:82:LYS:HA	1:1E:85:LYS:HZ3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:112:ILE:HB	1:1E:113:PRO:HD3	1.95	0.49
3:AF:27:GLU:OE1	7:AF:502:TA1:H421	2.13	0.49
2:BC:209:ILE:HA	2:BC:212:ILE:HG12	1.95	0.49
2:BE:209:ILE:HA	2:BE:212:ILE:HG12	1.95	0.49
2:CC:172:TYR:N	2:CC:204:VAL:O	2.27	0.49
3:CF:57:THR:O	3:CF:60:LYS:NZ	2.42	0.49
2:EA:251:ASP:OD1	2:EA:252:LEU:N	2.46	0.49
3:EB:165:ILE:HD11	3:EB:253:ARG:HG3	1.95	0.49
2:EE:231:ILE:O	2:EE:234:ILE:HG22	2.12	0.49
3:FD:210:TYR:HB3	3:FD:214:PHE:CE2	2.47	0.49
3:FF:210:TYR:HB3	3:FF:214:PHE:CE2	2.47	0.49
3:FF:332:MET:SD	3:FF:351:VAL:HG21	2.53	0.49
2:GA:231:ILE:O	2:GA:234:ILE:HG22	2.12	0.49
2:HA:206:ASN:OD1	2:HA:207:GLU:N	2.46	0.49
3:HB:27:GLU:OE1	7:HB:502:TA1:H421	2.13	0.49
2:HC:222:PRO:O	3:HD:326:LYS:NZ	2.46	0.49
2:HC:251:ASP:OD1	2:HC:252:LEU:N	2.46	0.49
3:HD:167:ASN:HA	3:HD:200:GLU:HB3	1.94	0.49
2:IA:206:ASN:OD1	2:IA:207:GLU:N	2.46	0.49
2:IA:231:ILE:O	2:IA:234:ILE:HG22	2.12	0.49
2:IE:294:ALA:O	2:IE:300:ASN:ND2	2.40	0.49
3:JB:250:ALA:HA	3:JB:254:LYS:HG3	1.95	0.49
2:JE:231:ILE:HD11	2:JE:302:MET:HE2	1.95	0.49
3:JF:332:MET:SD	3:JF:351:VAL:HG21	2.53	0.49
3:KB:401:ARG:HH22	2:KC:345:ASP:CG	2.17	0.49
2:KE:231:ILE:HD11	2:KE:302:MET:HE2	1.95	0.49
2:KE:394:LYS:CD	3:KF:348:PRO:HG3	2.41	0.49
3:LB:250:ALA:HA	3:LB:254:LYS:HG3	1.95	0.49
3:LD:250:ALA:HA	3:LD:254:LYS:HG3	1.95	0.49
2:LE:231:ILE:O	2:LE:234:ILE:HG22	2.12	0.49
2:MA:251:ASP:OD1	2:MA:252:LEU:N	2.46	0.49
2:NA:294:ALA:O	2:NA:300:ASN:ND2	2.40	0.49
3:AB:27:GLU:OE1	7:AB:502:TA1:H421	2.13	0.48
3:CB:165:ILE:HD11	3:CB:253:ARG:HG3	1.95	0.48
3:CF:165:ILE:HD11	3:CF:253:ARG:HG3	1.95	0.48
2:DC:172:TYR:N	2:DC:204:VAL:O	2.27	0.48
2:DE:172:TYR:N	2:DE:204:VAL:O	2.27	0.48
2:DE:251:ASP:OD1	2:DE:252:LEU:N	2.45	0.48
3:EB:332:MET:SD	3:EB:351:VAL:HG21	2.53	0.48
3:ED:165:ILE:HD11	3:ED:253:ARG:HG3	1.95	0.48
2:EE:209:ILE:HA	2:EE:212:ILE:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:324:SER:OG	3:EF:325:MET:N	2.45	0.48
2:GA:206:ASN:OD1	2:GA:207:GLU:N	2.46	0.48
2:GC:206:ASN:OD1	2:GC:207:GLU:N	2.46	0.48
3:GF:167:ASN:HA	3:GF:200:GLU:HB3	1.94	0.48
3:HF:167:ASN:HA	3:HF:200:GLU:HB3	1.94	0.48
2:IC:251:ASP:OD1	2:IC:252:LEU:N	2.45	0.48
3:ID:332:MET:SD	3:ID:351:VAL:HG21	2.53	0.48
2:IE:231:ILE:HD11	2:IE:302:MET:HE2	1.95	0.48
2:IE:231:ILE:O	2:IE:234:ILE:HG22	2.12	0.48
2:IE:251:ASP:OD1	2:IE:252:LEU:N	2.46	0.48
2:IE:422:ARG:CB	2:IE:425:MET:HE2	2.38	0.48
2:JA:231:ILE:HD11	2:JA:302:MET:HE2	1.95	0.48
3:JB:289:PRO:O	3:JB:292:THR:OG1	2.23	0.48
2:JC:231:ILE:HD11	2:JC:302:MET:HE2	1.95	0.48
3:JD:27:GLU:OE1	7:JD:502:TA1:H421	2.13	0.48
3:JF:167:ASN:HA	3:JF:200:GLU:HB3	1.94	0.48
2:KA:172:TYR:OH	2:KA:387:ALA:O	2.28	0.48
2:KA:209:ILE:HA	2:KA:212:ILE:HG12	1.95	0.48
2:KA:231:ILE:HD11	2:KA:302:MET:HE2	1.95	0.48
2:KC:209:ILE:HA	2:KC:212:ILE:HG12	1.95	0.48
2:KC:231:ILE:HD11	2:KC:302:MET:HE2	1.95	0.48
3:KD:143:GLY:N	3:KD:183:GLU:OE1	2.45	0.48
2:KE:251:ASP:OD1	2:KE:252:LEU:N	2.46	0.48
2:LA:251:ASP:OD1	2:LA:252:LEU:N	2.46	0.48
2:NA:179:THR:O	3:NB:352:LYS:HD2	2.13	0.48
3:NB:250:ALA:HA	3:NB:254:LYS:HG3	1.95	0.48
3:NF:250:ALA:HA	3:NF:254:LYS:HG3	1.95	0.48
1:1E:54:PHE:HB2	1:1E:57:MET:CE	2.40	0.48
3:AD:27:GLU:OE1	7:AD:502:TA1:H421	2.13	0.48
3:BD:27:GLU:OE1	7:BD:502:TA1:H421	2.13	0.48
3:BF:27:GLU:OE1	7:BF:502:TA1:H421	2.13	0.48
2:CA:88:HIS:CD2	2:DA:284:GLU:OE2	2.66	0.48
2:CA:251:ASP:OD1	2:CA:252:LEU:N	2.46	0.48
2:CC:251:ASP:OD1	2:CC:252:LEU:N	2.45	0.48
3:DB:289:PRO:O	3:DB:292:THR:OG1	2.23	0.48
3:DB:324:SER:OG	3:DB:325:MET:N	2.45	0.48
2:DC:251:ASP:OD1	2:DC:252:LEU:N	2.46	0.48
3:DF:332:MET:SD	3:DF:351:VAL:HG21	2.53	0.48
2:EE:224:TYR:HE1	3:EF:325:MET:HG3	1.76	0.48
3:EF:165:ILE:HD11	3:EF:253:ARG:HG3	1.95	0.48
3:FD:332:MET:SD	3:FD:351:VAL:HG21	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:107:HIS:HD1	2:FE:151:SER:HG	1.52	0.48
2:GC:231:ILE:O	2:GC:234:ILE:HG22	2.12	0.48
2:IA:231:ILE:HD11	2:IA:302:MET:HE2	1.95	0.48
2:IA:251:ASP:OD1	2:IA:252:LEU:N	2.45	0.48
2:IA:294:ALA:O	2:IA:300:ASN:ND2	2.40	0.48
3:IB:167:ASN:HA	3:IB:200:GLU:HB3	1.94	0.48
2:IC:209:ILE:HA	2:IC:212:ILE:HG12	1.95	0.48
2:IC:231:ILE:HD11	2:IC:302:MET:HE2	1.95	0.48
2:IC:422:ARG:CB	2:IC:425:MET:HE2	2.38	0.48
3:IF:332:MET:SD	3:IF:351:VAL:HG21	2.53	0.48
3:JB:27:GLU:OE1	7:JB:502:TA1:H421	2.13	0.48
3:JB:167:ASN:HA	3:JB:200:GLU:HB3	1.94	0.48
3:JD:167:ASN:HA	3:JD:200:GLU:HB3	1.94	0.48
3:JF:27:GLU:OE1	7:JF:502:TA1:H421	2.13	0.48
2:KA:100:ALA:C	3:KB:257:VAL:HG11	2.38	0.48
3:KB:289:PRO:O	3:KB:292:THR:OG1	2.23	0.48
3:KB:332:MET:SD	3:KB:351:VAL:HG21	2.53	0.48
3:KD:189:LEU:O	3:KD:193:GLN:NE2	2.36	0.48
2:KE:209:ILE:HA	2:KE:212:ILE:HG12	1.95	0.48
2:LA:231:ILE:HD11	2:LA:302:MET:HE2	1.95	0.48
2:LC:231:ILE:HD11	2:LC:302:MET:HE2	1.95	0.48
2:LE:231:ILE:HD11	2:LE:302:MET:HE2	1.95	0.48
3:MF:314:THR:O	3:MF:380:ASN:N	2.40	0.48
3:ND:250:ALA:HA	3:ND:254:LYS:HG3	1.95	0.48
1:1B:67:ASN:HA	1:1B:72:LYS:HE3	1.96	0.48
2:AA:24:TYR:HA	2:AA:27:GLU:HG2	1.94	0.48
3:AB:250:ALA:HA	3:AB:254:LYS:HG3	1.95	0.48
2:AC:24:TYR:HA	2:AC:27:GLU:HG2	1.94	0.48
2:BA:209:ILE:HA	2:BA:212:ILE:HG12	1.95	0.48
3:BB:27:GLU:OE1	7:BB:502:TA1:H421	2.13	0.48
3:CD:165:ILE:HD11	3:CD:253:ARG:HG3	1.95	0.48
2:DA:206:ASN:OD1	2:DA:207:GLU:N	2.46	0.48
2:DC:206:ASN:OD1	2:DC:207:GLU:N	2.46	0.48
2:DC:209:ILE:HA	2:DC:212:ILE:HG12	1.95	0.48
2:DE:206:ASN:OD1	2:DE:207:GLU:N	2.46	0.48
2:EC:209:ILE:HA	2:EC:212:ILE:HG12	1.95	0.48
3:FB:27:GLU:OE1	7:FB:502:TA1:H421	2.13	0.48
3:FB:332:MET:SD	3:FB:351:VAL:HG21	2.53	0.48
2:FC:231:ILE:HD11	2:FC:302:MET:HE2	1.95	0.48
3:FD:27:GLU:OE1	7:FD:502:TA1:H421	2.13	0.48
2:FE:231:ILE:HD11	2:FE:302:MET:HE2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GA:231:ILE:HD11	2:GA:302:MET:HE2	1.95	0.48
3:GD:289:PRO:O	3:GD:292:THR:OG1	2.23	0.48
2:GE:231:ILE:O	2:GE:234:ILE:HG22	2.12	0.48
3:GF:143:GLY:N	3:GF:183:GLU:OE1	2.45	0.48
3:HB:70:LEU:HD12	3:HB:99:ALA:HB2	1.96	0.48
2:HC:172:TYR:OH	2:HC:387:ALA:O	2.28	0.48
3:HD:70:LEU:HD12	3:HD:99:ALA:HB2	1.96	0.48
2:HE:172:TYR:OH	2:HE:387:ALA:O	2.28	0.48
2:HE:294:ALA:O	2:HE:300:ASN:ND2	2.40	0.48
2:IA:188:ILE:CG2	2:IA:189:LEU:HD12	2.43	0.48
2:JA:209:ILE:HA	2:JA:212:ILE:HG12	1.95	0.48
3:JD:250:ALA:HA	3:JD:254:LYS:HG3	1.95	0.48
3:JD:332:MET:SD	3:JD:351:VAL:HG21	2.53	0.48
2:KA:206:ASN:OD1	2:KA:207:GLU:N	2.46	0.48
3:KF:27:GLU:OE1	7:KF:502:TA1:H421	2.13	0.48
2:LC:251:ASP:OD1	2:LC:252:LEU:N	2.45	0.48
2:NA:72:PRO:HG3	3:NB:1:MET:HE2	1.95	0.48
2:AE:24:TYR:HA	2:AE:27:GLU:HG2	1.94	0.48
2:BE:224:TYR:CE1	3:BF:325:MET:HG3	2.49	0.48
2:CC:294:ALA:O	2:CC:300:ASN:ND2	2.40	0.48
2:CE:251:ASP:OD1	2:CE:252:LEU:N	2.45	0.48
2:CE:401:LYS:HD3	3:CF:346:TRP:HE1	1.78	0.48
2:DA:209:ILE:HA	2:DA:212:ILE:HG12	1.95	0.48
2:DA:251:ASP:OD1	2:DA:252:LEU:N	2.45	0.48
3:DD:289:PRO:O	3:DD:292:THR:OG1	2.23	0.48
3:DD:324:SER:OG	3:DD:325:MET:N	2.45	0.48
2:DE:209:ILE:HA	2:DE:212:ILE:HG12	1.95	0.48
2:EA:209:ILE:HA	2:EA:212:ILE:HG12	1.95	0.48
2:EA:231:ILE:HD11	2:EA:302:MET:HE2	1.95	0.48
3:ED:332:MET:SD	3:ED:351:VAL:HG21	2.53	0.48
2:FA:231:ILE:HD11	2:FA:302:MET:HE2	1.95	0.48
2:FA:231:ILE:O	2:FA:234:ILE:HG22	2.12	0.48
2:FC:231:ILE:O	2:FC:234:ILE:HG22	2.12	0.48
3:GB:69:ASP:OD2	3:GB:74:THR:OG1	2.18	0.48
2:GC:172:TYR:N	2:GC:204:VAL:O	2.27	0.48
2:GC:231:ILE:HD11	2:GC:302:MET:HE2	1.95	0.48
3:GD:394:GLN:NE2	2:GE:348:PRO:HG2	2.25	0.48
3:HB:167:ASN:HA	3:HB:200:GLU:HB3	1.94	0.48
3:HD:401:ARG:HD2	2:HE:346:TRP:CH2	2.49	0.48
2:IA:422:ARG:CB	2:IA:425:MET:HE2	2.38	0.48
3:IB:70:LEU:HD12	3:IB:99:ALA:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:250:ALA:HA	3:IB:254:LYS:HG3	1.95	0.48
3:ID:70:LEU:HD12	3:ID:99:ALA:HB2	1.96	0.48
3:IF:70:LEU:HD12	3:IF:99:ALA:HB2	1.96	0.48
3:JB:332:MET:SD	3:JB:351:VAL:HG21	2.53	0.48
2:JE:209:ILE:HA	2:JE:212:ILE:HG12	1.95	0.48
3:KB:27:GLU:OE1	7:KB:502:TA1:H421	2.13	0.48
3:KD:70:LEU:HD12	3:KD:99:ALA:HB2	1.96	0.48
3:KD:250:ALA:HA	3:KD:254:LYS:HG3	1.95	0.48
3:KF:70:LEU:HD12	3:KF:99:ALA:HB2	1.96	0.48
2:LE:209:ILE:HA	2:LE:212:ILE:HG12	1.95	0.48
2:LE:251:ASP:OD1	2:LE:252:LEU:N	2.46	0.48
3:LF:250:ALA:HA	3:LF:254:LYS:HG3	1.95	0.48
3:MD:57:THR:O	3:MD:60:LYS:NZ	2.42	0.48
2:NC:107:HIS:ND1	2:NC:151:SER:OG	2.43	0.48
3:NF:27:GLU:OE1	7:NF:502:TA1:H421	2.13	0.48
1:1B:61:HIS:CD2	2:AC:311:LYS:HG2	2.47	0.48
2:AA:394:LYS:HZ3	3:AB:348:PRO:HG3	1.79	0.48
3:AD:250:ALA:HA	3:AD:254:LYS:HG3	1.95	0.48
3:AF:165:ILE:HD11	3:AF:253:ARG:HG3	1.95	0.48
2:CA:294:ALA:O	2:CA:300:ASN:ND2	2.40	0.48
3:CD:27:GLU:OE1	7:CD:502:TA1:H421	2.13	0.48
2:EC:231:ILE:HD11	2:EC:302:MET:HE2	1.95	0.48
2:FE:105:ARG:NH1	3:FF:253:ARG:HD2	2.25	0.48
2:FE:231:ILE:O	2:FE:234:ILE:HG22	2.12	0.48
3:FF:27:GLU:OE1	7:FF:502:TA1:H421	2.13	0.48
3:GB:403:ALA:HB2	2:GC:346:TRP:CH2	2.48	0.48
2:GE:231:ILE:HD11	2:GE:302:MET:HE2	1.96	0.48
2:HA:294:ALA:O	2:HA:300:ASN:ND2	2.40	0.48
3:HB:324:SER:OG	3:HB:325:MET:N	2.45	0.48
2:HC:231:ILE:HD11	2:HC:302:MET:HE2	1.95	0.48
2:HC:294:ALA:O	2:HC:300:ASN:ND2	2.40	0.48
2:HE:231:ILE:HD11	2:HE:302:MET:HE2	1.95	0.48
2:IA:209:ILE:HA	2:IA:212:ILE:HG12	1.95	0.48
2:IC:188:ILE:CG2	2:IC:189:LEU:HD12	2.43	0.48
2:IC:294:ALA:O	2:IC:300:ASN:ND2	2.40	0.48
3:ID:250:ALA:HA	3:ID:254:LYS:HG3	1.95	0.48
2:IE:209:ILE:HA	2:IE:212:ILE:HG12	1.95	0.48
2:JA:206:ASN:OD1	2:JA:207:GLU:N	2.46	0.48
2:JA:298:PRO:HA	2:JA:301:GLN:HG2	1.96	0.48
2:JC:206:ASN:OD1	2:JC:207:GLU:N	2.46	0.48
2:JC:209:ILE:HA	2:JC:212:ILE:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:206:ASN:OD1	2:JE:207:GLU:N	2.46	0.48
2:JE:298:PRO:HA	2:JE:301:GLN:HG2	1.96	0.48
2:KA:24:TYR:HA	2:KA:27:GLU:HG2	1.94	0.48
2:KA:298:PRO:HA	2:KA:301:GLN:HG2	1.96	0.48
3:KB:70:LEU:HD12	3:KB:99:ALA:HB2	1.96	0.48
3:KB:324:SER:OG	3:KB:325:MET:N	2.45	0.48
2:KC:206:ASN:OD1	2:KC:207:GLU:N	2.46	0.48
2:KC:298:PRO:HA	2:KC:301:GLN:HG2	1.96	0.48
3:KD:289:PRO:O	3:KD:292:THR:OG1	2.23	0.48
3:KF:250:ALA:HA	3:KF:254:LYS:HG3	1.95	0.48
2:LA:107:HIS:ND1	2:LA:151:SER:OG	2.43	0.48
2:LC:209:ILE:HA	2:LC:212:ILE:HG12	1.95	0.48
2:NA:172:TYR:OH	2:NA:387:ALA:O	2.28	0.48
2:NC:294:ALA:O	2:NC:300:ASN:ND2	2.40	0.48
1:1A:67:ASN:HA	1:1A:72:LYS:HE3	1.96	0.48
1:1C:67:ASN:HA	1:1C:72:LYS:HE3	1.96	0.48
1:1D:67:ASN:HA	1:1D:72:LYS:HE3	1.96	0.48
3:AB:165:ILE:HD11	3:AB:253:ARG:HG3	1.95	0.48
3:AD:165:ILE:HD11	3:AD:253:ARG:HG3	1.95	0.48
2:AE:100:ALA:O	3:AF:257:VAL:HG11	2.14	0.48
3:AF:250:ALA:HA	3:AF:254:LYS:HG3	1.95	0.48
2:BC:186:ASN:O	2:BC:190:THR:HG23	2.14	0.48
2:BE:186:ASN:O	2:BE:190:THR:HG23	2.14	0.48
2:CA:56:THR:HA	2:DA:285:GLN:HB2	1.96	0.48
2:CA:209:ILE:HA	2:CA:212:ILE:HG12	1.95	0.48
3:CB:27:GLU:OE1	7:CB:502:TA1:H421	2.13	0.48
3:CD:394:GLN:HE22	2:CE:348:PRO:CG	2.21	0.48
2:CE:209:ILE:HA	2:CE:212:ILE:HG12	1.95	0.48
2:CE:294:ALA:O	2:CE:300:ASN:ND2	2.40	0.48
3:CF:27:GLU:OE1	7:CF:502:TA1:H421	2.13	0.48
3:DB:222:PRO:HD2	2:DC:326:LYS:NZ	2.29	0.48
2:EE:231:ILE:HD11	2:EE:302:MET:HE2	1.95	0.48
3:EF:332:MET:SD	3:EF:351:VAL:HG21	2.53	0.48
3:FB:70:LEU:HD12	3:FB:99:ALA:HB2	1.96	0.48
3:FD:70:LEU:HD12	3:FD:99:ALA:HB2	1.96	0.48
3:FF:70:LEU:HD12	3:FF:99:ALA:HB2	1.96	0.48
3:GB:165:ILE:HD11	3:GB:253:ARG:HG3	1.95	0.48
2:GC:222:PRO:O	3:GD:326:LYS:NZ	2.46	0.48
2:HA:209:ILE:HA	2:HA:212:ILE:HG12	1.95	0.48
2:HA:231:ILE:HD11	2:HA:302:MET:HE2	1.96	0.48
2:HC:209:ILE:HA	2:HC:212:ILE:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:324:SER:OG	3:HD:325:MET:N	2.45	0.48
3:HF:70:LEU:HD12	3:HF:99:ALA:HB2	1.96	0.48
3:IB:101:ASN:ND2	2:IC:254:GLU:OE2	2.46	0.48
2:IC:298:PRO:HA	2:IC:301:GLN:HG2	1.96	0.48
3:ID:69:ASP:OD2	3:ID:74:THR:OG1	2.18	0.48
2:IE:298:PRO:HA	2:IE:301:GLN:HG2	1.96	0.48
3:IF:27:GLU:OE1	7:IF:502:TA1:H421	2.13	0.48
2:JC:186:ASN:O	2:JC:190:THR:HG23	2.14	0.48
3:JF:250:ALA:HA	3:JF:254:LYS:HG3	1.95	0.48
3:KB:143:GLY:N	3:KB:183:GLU:OE1	2.45	0.48
3:KD:27:GLU:OE1	7:KD:502:TA1:H421	2.13	0.48
2:KE:206:ASN:OD1	2:KE:207:GLU:N	2.46	0.48
2:KE:298:PRO:HA	2:KE:301:GLN:HG2	1.96	0.48
2:LA:209:ILE:HA	2:LA:212:ILE:HG12	1.95	0.48
2:LA:298:PRO:HA	2:LA:301:GLN:HG2	1.96	0.48
3:LD:27:GLU:OE1	7:LD:502:TA1:H421	2.13	0.48
3:LF:27:GLU:OE1	7:LF:502:TA1:H421	2.13	0.48
2:MA:231:ILE:HD11	2:MA:302:MET:HE2	1.95	0.48
2:MC:89:PRO:HD2	2:NC:280:LYS:HZ3	1.77	0.48
2:MC:231:ILE:HD11	2:MC:302:MET:HE2	1.95	0.48
2:NE:107:HIS:ND1	2:NE:151:SER:OG	2.43	0.48
1:1C:61:HIS:HB2	2:AE:339:ARG:HH12	1.77	0.48
2:AC:107:HIS:HD1	2:AC:151:SER:HG	1.49	0.48
2:BA:186:ASN:O	2:BA:190:THR:HG23	2.14	0.48
2:CA:186:ASN:O	2:CA:190:THR:HG23	2.14	0.48
2:CC:209:ILE:HA	2:CC:212:ILE:HG12	1.95	0.48
3:EB:21:TRP:CZ2	3:EB:65:ALA:HB2	2.49	0.48
2:FA:146:GLY:O	2:FA:150:THR:OG1	2.27	0.48
2:FC:88:HIS:CD2	2:GC:284:GLU:OE2	2.67	0.48
2:FC:89:PRO:HD2	2:GC:280:LYS:HZ3	1.78	0.48
2:FE:146:GLY:O	2:FE:150:THR:OG1	2.27	0.48
2:GA:209:ILE:HA	2:GA:212:ILE:HG12	1.95	0.48
3:GD:165:ILE:HD11	3:GD:253:ARG:HG3	1.95	0.48
2:GE:209:ILE:HA	2:GE:212:ILE:HG12	1.95	0.48
3:GF:165:ILE:HD11	3:GF:253:ARG:HG3	1.95	0.48
3:HB:250:ALA:HA	3:HB:254:LYS:HG3	1.95	0.48
2:HC:221:ARG:NH2	3:HD:327:GLU:OE2	2.47	0.48
3:HD:222:PRO:HD2	2:HE:326:LYS:HZ3	1.79	0.48
3:IB:27:GLU:OE1	7:IB:502:TA1:H421	2.13	0.48
3:IF:250:ALA:HA	3:IF:254:LYS:HG3	1.95	0.48
2:JA:186:ASN:O	2:JA:190:THR:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JC:298:PRO:HA	2:JC:301:GLN:HG2	1.96	0.48
2:JE:186:ASN:O	2:JE:190:THR:HG23	2.14	0.48
2:KC:24:TYR:HA	2:KC:27:GLU:HG2	1.94	0.48
2:KE:24:TYR:HA	2:KE:27:GLU:HG2	1.93	0.48
2:LA:234:ILE:HD13	2:LA:272:TYR:HB2	1.96	0.48
3:LB:27:GLU:OE1	7:LB:502:TA1:H421	2.13	0.48
2:LC:234:ILE:HD13	2:LC:272:TYR:HB2	1.96	0.48
2:LC:298:PRO:HA	2:LC:301:GLN:HG2	1.96	0.48
2:LE:298:PRO:HA	2:LE:301:GLN:HG2	1.96	0.48
2:MA:24:TYR:HA	2:MA:27:GLU:HG2	1.94	0.48
3:MB:250:ALA:HA	3:MB:254:LYS:HG3	1.95	0.48
2:MC:234:ILE:HD13	2:MC:272:TYR:HB2	1.96	0.48
2:ME:24:TYR:HA	2:ME:27:GLU:HG2	1.94	0.48
2:ME:209:ILE:HA	2:ME:212:ILE:HG12	1.95	0.48
2:ME:231:ILE:HD11	2:ME:302:MET:HE2	1.95	0.48
2:ME:234:ILE:HD13	2:ME:272:TYR:HB2	1.96	0.48
2:NA:234:ILE:HD13	2:NA:272:TYR:HB2	1.96	0.48
1:1C:95:VAL:HG12	1:1C:99:ILE:CD1	2.44	0.48
2:AA:234:ILE:HD13	2:AA:272:TYR:HB2	1.96	0.48
2:CC:186:ASN:O	2:CC:190:THR:HG23	2.14	0.48
3:CD:100:GLY:HA2	2:CE:254:GLU:HB2	1.94	0.48
2:CE:186:ASN:O	2:CE:190:THR:HG23	2.14	0.48
3:DF:21:TRP:CZ2	3:DF:65:ALA:HB2	2.49	0.48
3:DF:69:ASP:OD2	3:DF:74:THR:OG1	2.18	0.48
2:EA:181:VAL:HG12	3:EB:258:ASN:OD1	2.13	0.48
3:ED:21:TRP:CZ2	3:ED:65:ALA:HB2	2.49	0.48
2:GA:186:ASN:O	2:GA:190:THR:HG23	2.14	0.48
2:GC:186:ASN:O	2:GC:190:THR:HG23	2.14	0.48
2:GC:209:ILE:HA	2:GC:212:ILE:HG12	1.95	0.48
3:GD:143:GLY:N	3:GD:183:GLU:OE1	2.45	0.48
2:GE:186:ASN:O	2:GE:190:THR:HG23	2.14	0.48
3:HB:191:VAL:HB	3:HB:425:MET:HE1	1.96	0.48
2:HE:209:ILE:HA	2:HE:212:ILE:HG12	1.95	0.48
2:IA:298:PRO:HA	2:IA:301:GLN:HG2	1.96	0.48
3:ID:27:GLU:OE1	7:ID:502:TA1:H421	2.13	0.48
2:IE:397:LEU:HD12	3:IF:346:TRP:CE3	2.49	0.48
2:JE:404:PHE:CE2	3:JF:261:PRO:HA	2.49	0.48
3:JF:70:LEU:HD22	3:JF:110:GLU:HG3	1.96	0.48
3:KB:401:ARG:C	2:KC:346:TRP:HH2	2.21	0.48
2:KC:234:ILE:HD13	2:KC:272:TYR:HB2	1.96	0.48
3:KF:191:VAL:HB	3:KF:425:MET:HE1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LE:234:ILE:HD13	2:LE:272:TYR:HB2	1.96	0.48
2:MA:209:ILE:HA	2:MA:212:ILE:HG12	1.95	0.48
2:MA:234:ILE:HD13	2:MA:272:TYR:HB2	1.96	0.48
3:MB:27:GLU:OE1	7:MB:502:TA1:H421	2.13	0.48
3:MB:324:SER:OG	3:MB:325:MET:N	2.45	0.48
2:MC:24:TYR:HA	2:MC:27:GLU:HG2	1.94	0.48
2:MC:105:ARG:NH1	3:MD:253:ARG:HD2	2.28	0.48
2:MC:209:ILE:HA	2:MC:212:ILE:HG12	1.95	0.48
2:NA:231:ILE:HD11	2:NA:302:MET:HE2	1.95	0.48
2:NA:394:LYS:HZ3	2:NA:397:LEU:HD23	1.77	0.48
3:ND:27:GLU:OE1	7:ND:502:TA1:H421	2.13	0.48
2:NE:234:ILE:HD13	2:NE:272:TYR:HB2	1.96	0.48
1:1B:63:TYR:C	2:AC:308:ARG:NE	2.72	0.48
1:1E:67:ASN:HA	1:1E:72:LYS:HE3	1.95	0.48
2:AA:186:ASN:O	2:AA:190:THR:HG23	2.14	0.48
2:AC:186:ASN:O	2:AC:190:THR:HG23	2.14	0.48
2:AC:234:ILE:HD13	2:AC:272:TYR:HB2	1.96	0.48
2:BA:89:PRO:HD2	2:CA:280:LYS:HZ3	1.79	0.48
3:BB:250:ALA:HA	3:BB:254:LYS:HG3	1.95	0.48
2:BC:172:TYR:N	2:BC:204:VAL:O	2.27	0.48
2:CA:188:ILE:CG2	2:CA:189:LEU:HD12	2.43	0.48
2:CC:188:ILE:CG2	2:CC:189:LEU:HD12	2.43	0.48
2:DA:231:ILE:HD11	2:DA:302:MET:HE2	1.95	0.48
3:DB:21:TRP:CZ2	3:DB:65:ALA:HB2	2.49	0.48
3:DB:27:GLU:OE1	7:DB:502:TA1:H421	2.13	0.48
3:DD:21:TRP:CZ2	3:DD:65:ALA:HB2	2.49	0.48
2:DE:231:ILE:HD11	2:DE:302:MET:HE2	1.95	0.48
2:EA:100:ALA:HA	3:EB:254:LYS:HD3	1.96	0.48
3:EB:70:LEU:HD22	3:EB:110:GLU:HG3	1.96	0.48
3:ED:70:LEU:HD22	3:ED:110:GLU:HG3	1.96	0.48
3:EF:21:TRP:CZ2	3:EF:65:ALA:HB2	2.49	0.48
2:FA:188:ILE:CG2	2:FA:189:LEU:HD12	2.43	0.48
3:FB:88:ARG:HH12	3:GB:283:TYR:HB2	1.77	0.48
3:FB:191:VAL:HB	3:FB:425:MET:HE1	1.96	0.48
2:FC:146:GLY:O	2:FC:150:THR:OG1	2.27	0.48
3:FD:88:ARG:HH12	3:GD:283:TYR:HB2	1.79	0.48
2:HC:298:PRO:HA	2:HC:301:GLN:HG2	1.96	0.48
3:HD:250:ALA:HA	3:HD:254:LYS:HG3	1.95	0.48
2:HE:172:TYR:N	2:HE:204:VAL:O	2.27	0.48
3:HF:324:SER:OG	3:HF:325:MET:N	2.45	0.48
3:JB:70:LEU:HD22	3:JB:110:GLU:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:70:LEU:HD22	3:JD:110:GLU:HG3	1.96	0.48
3:JD:191:VAL:HB	3:JD:425:MET:HE1	1.96	0.48
3:JD:289:PRO:O	3:JD:292:THR:OG1	2.23	0.48
3:JF:191:VAL:HB	3:JF:425:MET:HE1	1.96	0.48
3:KB:70:LEU:HD22	3:KB:110:GLU:HG3	1.96	0.48
3:KD:70:LEU:HD22	3:KD:110:GLU:HG3	1.96	0.48
3:KD:324:SER:OG	3:KD:325:MET:N	2.45	0.48
2:KE:234:ILE:HD13	2:KE:272:TYR:HB2	1.96	0.48
3:KF:70:LEU:HD22	3:KF:110:GLU:HG3	1.96	0.48
3:KF:289:PRO:O	3:KF:292:THR:OG1	2.23	0.48
2:MC:186:ASN:O	2:MC:190:THR:HG23	2.14	0.48
3:MD:250:ALA:HA	3:MD:254:LYS:HG3	1.95	0.48
3:MD:324:SER:OG	3:MD:325:MET:N	2.45	0.48
2:ME:186:ASN:O	2:ME:190:THR:HG23	2.14	0.48
3:MF:70:LEU:HD22	3:MF:110:GLU:HG3	1.96	0.48
2:NC:234:ILE:HD13	2:NC:272:TYR:HB2	1.96	0.48
3:ND:394:GLN:HE22	2:NE:348:PRO:CG	2.07	0.48
2:NE:209:ILE:HA	2:NE:212:ILE:HG12	1.95	0.48
1:1E:95:VAL:HG12	1:1E:99:ILE:CD1	2.44	0.48
2:AA:188:ILE:CG2	2:AA:189:LEU:HD12	2.43	0.48
2:AC:188:ILE:CG2	2:AC:189:LEU:HD12	2.43	0.48
2:AE:186:ASN:O	2:AE:190:THR:HG23	2.14	0.48
2:AE:234:ILE:HD13	2:AE:272:TYR:HB2	1.96	0.48
2:BA:188:ILE:CG2	2:BA:189:LEU:HD12	2.43	0.48
2:BC:188:ILE:CG2	2:BC:189:LEU:HD12	2.43	0.48
3:BD:70:LEU:HD22	3:BD:110:GLU:HG3	1.96	0.48
3:CF:70:LEU:HD22	3:CF:110:GLU:HG3	1.96	0.48
2:DC:231:ILE:HD11	2:DC:302:MET:HE2	1.95	0.48
3:DD:27:GLU:OE1	7:DD:502:TA1:H421	2.13	0.48
3:DD:70:LEU:HD22	3:DD:110:GLU:HG3	1.96	0.48
4:DE:501:GTP:PG	3:DF:254:LYS:HZ1	2.37	0.48
3:DF:70:LEU:HD22	3:DF:110:GLU:HG3	1.96	0.48
3:DF:165:ILE:HD11	3:DF:253:ARG:HG3	1.95	0.48
2:EA:188:ILE:CG2	2:EA:189:LEU:HD12	2.43	0.48
2:EA:269:LEU:HG	2:EA:379:SER:O	2.14	0.48
3:EF:250:ALA:HA	3:EF:254:LYS:HG3	1.95	0.48
2:FC:269:LEU:HG	2:FC:379:SER:O	2.14	0.48
2:FE:269:LEU:HG	2:FE:379:SER:O	2.14	0.48
3:GB:191:VAL:HB	3:GB:425:MET:HE1	1.96	0.48
3:GD:191:VAL:HB	3:GD:425:MET:HE1	1.96	0.48
3:GF:191:VAL:HB	3:GF:425:MET:HE1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:298:PRO:HA	2:HE:301:GLN:HG2	1.96	0.48
2:IC:186:ASN:O	2:IC:190:THR:HG23	2.14	0.48
3:JB:191:VAL:HB	3:JB:425:MET:HE1	1.96	0.48
2:JC:188:ILE:CG2	2:JC:189:LEU:HD12	2.43	0.48
2:JE:234:ILE:HD13	2:JE:272:TYR:HB2	1.96	0.48
3:JF:143:GLY:N	3:JF:183:GLU:OE1	2.45	0.48
2:KA:234:ILE:HD13	2:KA:272:TYR:HB2	1.96	0.48
3:LB:21:TRP:CZ2	3:LB:65:ALA:HB2	2.49	0.48
3:LB:191:VAL:HB	3:LB:425:MET:HE1	1.96	0.48
3:LD:191:VAL:HB	3:LD:425:MET:HE1	1.96	0.48
2:MA:186:ASN:O	2:MA:190:THR:HG23	2.14	0.48
3:MD:27:GLU:OE1	7:MD:502:TA1:H421	2.13	0.48
3:MD:70:LEU:HD22	3:MD:110:GLU:HG3	1.96	0.48
3:MD:401:ARG:HD2	2:ME:346:TRP:CZ2	2.49	0.48
3:MF:27:GLU:OE1	7:MF:502:TA1:H421	2.13	0.48
3:MF:69:ASP:OD2	3:MF:74:THR:OG1	2.18	0.48
2:NA:182:VAL:HG21	3:NB:257:VAL:HG22	1.94	0.48
2:NC:172:TYR:OH	2:NC:387:ALA:O	2.28	0.48
1:1D:95:VAL:HG12	1:1D:99:ILE:CD1	2.44	0.47
2:AA:231:ILE:HD11	2:AA:302:MET:HE2	1.95	0.47
3:AB:21:TRP:CZ2	3:AB:65:ALA:HB2	2.49	0.47
2:AE:231:ILE:HD11	2:AE:302:MET:HE2	1.95	0.47
2:BA:234:ILE:HD13	2:BA:272:TYR:HB2	1.96	0.47
3:BB:70:LEU:HD22	3:BB:110:GLU:HG3	1.96	0.47
2:BC:224:TYR:CE1	3:BD:325:MET:HE2	2.49	0.47
2:BC:231:ILE:HD11	2:BC:302:MET:HE2	1.95	0.47
2:BC:269:LEU:HG	2:BC:379:SER:O	2.14	0.47
3:BD:250:ALA:HA	3:BD:254:LYS:HG3	1.95	0.47
2:BE:188:ILE:CG2	2:BE:189:LEU:HD12	2.43	0.47
2:BE:269:LEU:HG	2:BE:379:SER:O	2.14	0.47
3:BF:70:LEU:HD22	3:BF:110:GLU:HG3	1.96	0.47
3:CB:70:LEU:HD22	3:CB:110:GLU:HG3	1.96	0.47
2:CE:231:ILE:HD11	2:CE:302:MET:HE2	1.95	0.47
2:DA:188:ILE:CG2	2:DA:189:LEU:HD12	2.43	0.47
3:DB:70:LEU:HD22	3:DB:110:GLU:HG3	1.96	0.47
2:DC:188:ILE:CG2	2:DC:189:LEU:HD12	2.43	0.47
3:EB:222:PRO:HD2	2:EC:326:LYS:NZ	2.26	0.47
3:EB:250:ALA:HA	3:EB:254:LYS:HG3	1.95	0.47
2:EC:188:ILE:CG2	2:EC:189:LEU:HD12	2.43	0.47
3:ED:250:ALA:HA	3:ED:254:LYS:HG3	1.95	0.47
2:EE:269:LEU:HG	2:EE:379:SER:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EF:70:LEU:HD22	3:EF:110:GLU:HG3	1.96	0.47
2:FA:269:LEU:HG	2:FA:379:SER:O	2.14	0.47
2:FC:188:ILE:CG2	2:FC:189:LEU:HD12	2.43	0.47
3:FD:191:VAL:HB	3:FD:425:MET:HE1	1.96	0.47
3:FD:250:ALA:HA	3:FD:254:LYS:HG3	1.95	0.47
3:FF:191:VAL:HB	3:FF:425:MET:HE1	1.96	0.47
3:FF:250:ALA:HA	3:FF:254:LYS:HG3	1.95	0.47
3:GB:250:ALA:HA	3:GB:254:LYS:HG3	1.95	0.47
2:HA:298:PRO:HA	2:HA:301:GLN:HG2	1.96	0.47
3:HD:191:VAL:HB	3:HD:425:MET:HE1	1.96	0.47
3:HF:21:TRP:CZ2	3:HF:65:ALA:HB2	2.49	0.47
3:HF:70:LEU:HD22	3:HF:110:GLU:HG3	1.96	0.47
3:HF:191:VAL:HB	3:HF:425:MET:HE1	1.96	0.47
3:HF:250:ALA:HA	3:HF:254:LYS:HG3	1.95	0.47
3:IB:191:VAL:HB	3:IB:425:MET:HE1	1.96	0.47
3:IF:191:VAL:HB	3:IF:425:MET:HE1	1.96	0.47
2:JA:234:ILE:HD13	2:JA:272:TYR:HB2	1.96	0.47
3:JB:21:TRP:CZ2	3:JB:65:ALA:HB2	2.49	0.47
3:KB:21:TRP:CZ2	3:KB:65:ALA:HB2	2.49	0.47
3:KD:191:VAL:HB	3:KD:425:MET:HE1	1.96	0.47
3:KF:324:SER:OG	3:KF:325:MET:N	2.45	0.47
3:LD:21:TRP:CZ2	3:LD:65:ALA:HB2	2.49	0.47
3:LF:70:LEU:HD22	3:LF:110:GLU:HG3	1.96	0.47
3:LF:191:VAL:HB	3:LF:425:MET:HE1	1.96	0.47
2:MA:298:PRO:HA	2:MA:301:GLN:HG2	1.96	0.47
2:ME:224:TYR:CD1	3:MF:325:MET:CE	2.90	0.47
3:NB:27:GLU:OE1	7:NB:502:TA1:H421	2.13	0.47
3:NB:70:LEU:HD22	3:NB:110:GLU:HG3	1.96	0.47
2:NC:209:ILE:HA	2:NC:212:ILE:HG12	1.95	0.47
2:NC:231:ILE:HD11	2:NC:302:MET:HE2	1.96	0.47
2:NE:186:ASN:O	2:NE:190:THR:HG23	2.14	0.47
1:1B:39:ASP:CG	1:1B:45:LEU:HD22	2.40	0.47
3:AD:21:TRP:CZ2	3:AD:65:ALA:HB2	2.49	0.47
4:AE:501:GTP:O3G	3:AF:254:LYS:NZ	2.47	0.47
2:BA:269:LEU:HG	2:BA:379:SER:O	2.14	0.47
3:CD:70:LEU:HD22	3:CD:110:GLU:HG3	1.96	0.47
2:CE:188:ILE:CG2	2:CE:189:LEU:HD12	2.44	0.47
2:DA:186:ASN:O	2:DA:190:THR:HG23	2.14	0.47
3:DB:70:LEU:HD12	3:DB:99:ALA:HB2	1.96	0.47
3:DD:70:LEU:HD12	3:DD:99:ALA:HB2	1.96	0.47
2:DE:188:ILE:CG2	2:DE:189:LEU:HD12	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:269:LEU:HG	2:EC:379:SER:O	2.14	0.47
2:EE:188:ILE:CG2	2:EE:189:LEU:HD12	2.43	0.47
2:FA:100:ALA:O	3:FB:257:VAL:HG11	2.14	0.47
2:FE:100:ALA:HA	3:FF:254:LYS:HD3	1.96	0.47
2:FE:188:ILE:CG2	2:FE:189:LEU:HD12	2.43	0.47
3:GB:27:GLU:OE1	7:GB:502:TA1:H421	2.13	0.47
3:GB:143:GLY:N	3:GB:183:GLU:OE1	2.45	0.47
3:GD:70:LEU:HD22	3:GD:110:GLU:HG3	1.96	0.47
3:GD:250:ALA:HA	3:GD:254:LYS:HG3	1.95	0.47
2:HA:172:TYR:N	2:HA:204:VAL:O	2.27	0.47
2:HA:186:ASN:O	2:HA:190:THR:HG23	2.14	0.47
3:HB:21:TRP:CZ2	3:HB:65:ALA:HB2	2.49	0.47
3:HB:314:THR:O	3:HB:380:ASN:N	2.40	0.47
2:HC:186:ASN:O	2:HC:190:THR:HG23	2.14	0.47
3:HD:21:TRP:CZ2	3:HD:65:ALA:HB2	2.49	0.47
3:ID:191:VAL:HB	3:ID:425:MET:HE1	1.96	0.47
3:IF:70:LEU:HD22	3:IF:110:GLU:HG3	1.96	0.47
2:JA:188:ILE:CG2	2:JA:189:LEU:HD12	2.43	0.47
2:JC:234:ILE:HD13	2:JC:272:TYR:HB2	1.96	0.47
3:JD:143:GLY:N	3:JD:183:GLU:OE1	2.45	0.47
2:JE:188:ILE:CG2	2:JE:189:LEU:HD12	2.43	0.47
2:JE:401:LYS:HD3	3:JF:346:TRP:HE1	1.79	0.47
2:KA:186:ASN:O	2:KA:190:THR:HG23	2.14	0.47
3:KB:191:VAL:HB	3:KB:425:MET:HE1	1.96	0.47
4:KC:501:GTP:O3G	3:KD:254:LYS:NZ	2.47	0.47
2:KE:188:ILE:CG2	2:KE:189:LEU:HD12	2.43	0.47
3:LD:70:LEU:HD12	3:LD:99:ALA:HB2	1.96	0.47
2:LE:186:ASN:O	2:LE:190:THR:HG23	2.14	0.47
3:LF:70:LEU:HD12	3:LF:99:ALA:HB2	1.96	0.47
2:MA:398:MET:HG3	3:MB:347:ILE:CD1	2.45	0.47
3:MB:21:TRP:CZ2	3:MB:65:ALA:HB2	2.49	0.47
3:MB:57:THR:O	3:MB:60:LYS:NZ	2.42	0.47
3:MB:70:LEU:HD22	3:MB:110:GLU:HG3	1.96	0.47
3:MF:250:ALA:HA	3:MF:254:LYS:HG3	1.95	0.47
2:NA:209:ILE:HA	2:NA:212:ILE:HG12	1.95	0.47
3:NB:189:LEU:O	3:NB:193:GLN:NE2	2.36	0.47
3:ND:21:TRP:CZ2	3:ND:65:ALA:HB2	2.49	0.47
3:ND:70:LEU:HD22	3:ND:110:GLU:HG3	1.96	0.47
2:NE:231:ILE:HD11	2:NE:302:MET:HE2	1.95	0.47
3:NF:21:TRP:CZ2	3:NF:65:ALA:HB2	2.49	0.47
2:AA:269:LEU:HG	2:AA:379:SER:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:209:ILE:HA	2:AC:212:ILE:HG12	1.95	0.47
2:AC:231:ILE:HD11	2:AC:302:MET:HE2	1.95	0.47
2:AC:269:LEU:HG	2:AC:379:SER:O	2.14	0.47
2:AC:394:LYS:HZ3	3:AD:348:PRO:HG3	1.78	0.47
2:AE:188:ILE:CG2	2:AE:189:LEU:HD12	2.44	0.47
2:AE:269:LEU:HG	2:AE:379:SER:O	2.14	0.47
3:AF:21:TRP:CZ2	3:AF:65:ALA:HB2	2.49	0.47
2:BA:231:ILE:HD11	2:BA:302:MET:HE2	1.96	0.47
3:BB:165:ILE:HD11	3:BB:253:ARG:HG3	1.95	0.47
3:BD:165:ILE:HD11	3:BD:253:ARG:HG3	1.95	0.47
3:BD:314:THR:O	3:BD:380:ASN:N	2.40	0.47
2:BE:231:ILE:HD11	2:BE:302:MET:HE2	1.95	0.47
2:BE:234:ILE:HD13	2:BE:272:TYR:HB2	1.96	0.47
3:BF:165:ILE:HD11	3:BF:253:ARG:HG3	1.95	0.47
2:CA:231:ILE:HD11	2:CA:302:MET:HE2	1.95	0.47
2:CC:231:ILE:HD11	2:CC:302:MET:HE2	1.95	0.47
3:CD:143:GLY:N	3:CD:183:GLU:OE1	2.45	0.47
3:CF:143:GLY:N	3:CF:183:GLU:OE1	2.45	0.47
3:DB:57:THR:O	3:DB:60:LYS:NZ	2.42	0.47
3:DB:165:ILE:HD11	3:DB:253:ARG:HG3	1.95	0.47
3:DD:165:ILE:HD11	3:DD:253:ARG:HG3	1.95	0.47
3:DF:27:GLU:OE1	7:DF:502:TA1:H421	2.13	0.47
3:DF:70:LEU:HD12	3:DF:99:ALA:HB2	1.96	0.47
3:EB:27:GLU:OE1	7:EB:502:TA1:H421	2.13	0.47
4:EE:501:GTP:PG	3:EF:254:LYS:NZ	2.84	0.47
3:FB:250:ALA:HA	3:FB:254:LYS:HG3	1.95	0.47
3:GB:70:LEU:HD22	3:GB:110:GLU:HG3	1.96	0.47
3:GD:69:ASP:OD2	3:GD:74:THR:OG1	2.18	0.47
3:GF:70:LEU:HD22	3:GF:110:GLU:HG3	1.96	0.47
3:GF:70:LEU:HD12	3:GF:99:ALA:HB2	1.96	0.47
3:GF:250:ALA:HA	3:GF:254:LYS:HG3	1.95	0.47
3:GF:289:PRO:O	3:GF:292:THR:OG1	2.23	0.47
3:HD:70:LEU:HD22	3:HD:110:GLU:HG3	1.96	0.47
3:HD:179:ASP:O	2:HE:352:LYS:HD2	2.14	0.47
2:HE:186:ASN:O	2:HE:190:THR:HG23	2.14	0.47
2:IA:186:ASN:O	2:IA:190:THR:HG23	2.14	0.47
3:IB:70:LEU:HD22	3:IB:110:GLU:HG3	1.96	0.47
3:IB:154:ILE:HG12	3:IB:166:MET:HE2	1.97	0.47
3:ID:70:LEU:HD22	3:ID:110:GLU:HG3	1.96	0.47
3:ID:154:ILE:HG12	3:ID:166:MET:HE2	1.97	0.47
2:IE:186:ASN:O	2:IE:190:THR:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:154:ILE:HG12	3:IF:166:MET:HE2	1.97	0.47
3:JD:21:TRP:CZ2	3:JD:65:ALA:HB2	2.49	0.47
3:KB:401:ARG:HH21	2:KC:345:ASP:CG	2.09	0.47
2:KC:186:ASN:O	2:KC:190:THR:HG23	2.14	0.47
2:KC:188:ILE:CG2	2:KC:189:LEU:HD12	2.43	0.47
2:KC:222:PRO:C	3:KD:326:LYS:HZ1	2.22	0.47
2:KC:397:LEU:HD12	3:KD:346:TRP:CZ3	2.49	0.47
2:LA:186:ASN:O	2:LA:190:THR:HG23	2.14	0.47
3:LB:70:LEU:HD12	3:LB:99:ALA:HB2	1.96	0.47
3:LB:70:LEU:HD22	3:LB:110:GLU:HG3	1.96	0.47
3:LD:70:LEU:HD22	3:LD:110:GLU:HG3	1.96	0.47
3:LD:154:ILE:HG12	3:LD:166:MET:HE2	1.97	0.47
2:LE:188:ILE:CG2	2:LE:189:LEU:HD12	2.43	0.47
3:LF:21:TRP:CZ2	3:LF:65:ALA:HB2	2.49	0.47
3:LF:154:ILE:HG12	3:LF:166:MET:HE2	1.97	0.47
2:MC:188:ILE:CG2	2:MC:189:LEU:HD12	2.43	0.47
2:ME:188:ILE:CG2	2:ME:189:LEU:HD12	2.43	0.47
2:ME:298:PRO:HA	2:ME:301:GLN:HG2	1.96	0.47
3:NB:21:TRP:CZ2	3:NB:65:ALA:HB2	2.49	0.47
3:NB:401:ARG:NH2	2:NC:345:ASP:CG	2.73	0.47
2:NE:172:TYR:OH	2:NE:387:ALA:O	2.28	0.47
3:NF:70:LEU:HD22	3:NF:110:GLU:HG3	1.96	0.47
1:1A:39:ASP:CG	1:1A:45:LEU:HD22	2.40	0.47
1:1A:95:VAL:HG12	1:1A:99:ILE:CD1	2.44	0.47
1:1B:95:VAL:HG12	1:1B:99:ILE:CD1	2.44	0.47
1:1C:39:ASP:CG	1:1C:45:LEU:HD22	2.40	0.47
2:BC:105:ARG:NH1	3:BD:253:ARG:HD2	2.25	0.47
2:BC:234:ILE:HD13	2:BC:272:TYR:HB2	1.96	0.47
3:BF:250:ALA:HA	3:BF:254:LYS:HG3	1.95	0.47
3:BF:314:THR:O	3:BF:380:ASN:N	2.40	0.47
2:DC:186:ASN:O	2:DC:190:THR:HG23	2.14	0.47
3:DD:250:ALA:HA	3:DD:254:LYS:HG3	1.95	0.47
2:DE:186:ASN:O	2:DE:190:THR:HG23	2.14	0.47
3:DF:57:THR:O	3:DF:60:LYS:NZ	2.42	0.47
3:DF:250:ALA:HA	3:DF:254:LYS:HG3	1.95	0.47
3:EB:191:VAL:HB	3:EB:425:MET:HE1	1.96	0.47
3:ED:27:GLU:OE1	7:ED:502:TA1:H421	2.13	0.47
2:FA:209:ILE:HA	2:FA:212:ILE:HG12	1.95	0.47
2:FC:21:TRP:HZ3	2:FC:52:PHE:CD1	2.31	0.47
4:FC:501:GTP:PG	3:FD:254:LYS:HZ1	2.37	0.47
3:GD:27:GLU:OE1	7:GD:502:TA1:H421	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:70:LEU:HD22	3:HB:110:GLU:HG3	1.96	0.47
2:HC:172:TYR:N	2:HC:204:VAL:O	2.27	0.47
3:ID:21:TRP:CZ2	3:ID:65:ALA:HB2	2.49	0.47
2:KA:21:TRP:HZ3	2:KA:52:PHE:CD1	2.31	0.47
2:KC:21:TRP:HZ3	2:KC:52:PHE:CD1	2.31	0.47
3:KD:21:TRP:CZ2	3:KD:65:ALA:HB2	2.49	0.47
2:KE:21:TRP:HZ3	2:KE:52:PHE:CD1	2.31	0.47
2:KE:186:ASN:O	2:KE:190:THR:HG23	2.14	0.47
3:LB:154:ILE:HG12	3:LB:166:MET:HE2	1.97	0.47
3:LB:165:ILE:HD11	3:LB:253:ARG:HG3	1.95	0.47
2:LC:186:ASN:O	2:LC:190:THR:HG23	2.14	0.47
3:LF:60:LYS:HE3	3:MF:282:GLN:O	2.14	0.47
3:MD:21:TRP:CZ2	3:MD:65:ALA:HB2	2.49	0.47
3:MD:70:LEU:HD12	3:MD:99:ALA:HB2	1.96	0.47
3:MF:57:THR:O	3:MF:60:LYS:NZ	2.42	0.47
3:MF:70:LEU:HD12	3:MF:99:ALA:HB2	1.96	0.47
2:NA:186:ASN:O	2:NA:190:THR:HG23	2.14	0.47
2:NA:298:PRO:HA	2:NA:301:GLN:HG2	1.96	0.47
3:NB:70:LEU:HD12	3:NB:99:ALA:HB2	1.96	0.47
2:NC:186:ASN:O	2:NC:190:THR:HG23	2.14	0.47
3:ND:70:LEU:HD12	3:ND:99:ALA:HB2	1.96	0.47
2:NE:294:ALA:O	2:NE:300:ASN:ND2	2.40	0.47
3:NF:165:ILE:HD11	3:NF:253:ARG:HG3	1.95	0.47
2:AA:209:ILE:HA	2:AA:212:ILE:HG12	1.95	0.47
2:BA:100:ALA:HA	3:BB:254:LYS:HD3	1.96	0.47
3:BB:21:TRP:CZ2	3:BB:65:ALA:HB2	2.49	0.47
3:BD:143:GLY:N	3:BD:183:GLU:OE1	2.45	0.47
3:BD:289:PRO:O	3:BD:292:THR:OG1	2.23	0.47
3:BF:21:TRP:CZ2	3:BF:65:ALA:HB2	2.49	0.47
2:CA:269:LEU:HG	2:CA:379:SER:O	2.14	0.47
3:CB:143:GLY:N	3:CB:183:GLU:OE1	2.45	0.47
2:CC:234:ILE:HD13	2:CC:272:TYR:HB2	1.96	0.47
2:CC:269:LEU:HG	2:CC:379:SER:O	2.14	0.47
2:CE:269:LEU:HG	2:CE:379:SER:O	2.14	0.47
3:DB:250:ALA:HA	3:DB:254:LYS:HG3	1.95	0.47
2:DE:224:TYR:HE1	3:DF:325:MET:HG3	1.79	0.47
3:EF:191:VAL:HB	3:EF:425:MET:HE1	1.96	0.47
3:FB:70:LEU:HD22	3:FB:110:GLU:HG3	1.96	0.47
2:FC:100:ALA:O	3:FD:257:VAL:HG11	2.13	0.47
3:FD:70:LEU:HD22	3:FD:110:GLU:HG3	1.96	0.47
2:FE:186:ASN:O	2:FE:190:THR:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:224:TYR:CD1	3:FF:247:GLN:NE2	2.82	0.47
3:FF:70:LEU:HD22	3:FF:110:GLU:HG3	1.96	0.47
2:GA:188:ILE:CG2	2:GA:189:LEU:HD12	2.43	0.47
2:HC:234:ILE:HD13	2:HC:272:TYR:HB2	1.96	0.47
3:HD:314:THR:O	3:HD:380:ASN:N	2.40	0.47
2:IA:234:ILE:HD13	2:IA:272:TYR:HB2	1.96	0.47
3:IB:21:TRP:CZ2	3:IB:65:ALA:HB2	2.49	0.47
2:IC:222:PRO:HD2	3:ID:326:LYS:CE	2.45	0.47
2:IC:234:ILE:HD13	2:IC:272:TYR:HB2	1.96	0.47
2:IE:98:ASP:CG	3:IF:254:LYS:HE2	2.39	0.47
2:IE:234:ILE:HD13	2:IE:272:TYR:HB2	1.96	0.47
3:JB:143:GLY:N	3:JB:183:GLU:OE1	2.45	0.47
3:JF:21:TRP:CZ2	3:JF:65:ALA:HB2	2.49	0.47
3:KD:101:ASN:ND2	2:KE:254:GLU:OE2	2.47	0.47
2:LA:188:ILE:CG2	2:LA:189:LEU:HD12	2.43	0.47
2:LC:188:ILE:CG2	2:LC:189:LEU:HD12	2.43	0.47
3:LD:165:ILE:HD11	3:LD:253:ARG:HG3	1.95	0.47
3:LF:165:ILE:HD11	3:LF:253:ARG:HG3	1.95	0.47
2:MA:172:TYR:N	2:MA:204:VAL:O	2.27	0.47
2:MA:188:ILE:CG2	2:MA:189:LEU:HD12	2.43	0.47
2:MC:298:PRO:HA	2:MC:301:GLN:HG2	1.96	0.47
3:NB:165:ILE:HD11	3:NB:253:ARG:HG3	1.95	0.47
2:NC:188:ILE:CG2	2:NC:189:LEU:HD12	2.43	0.47
3:ND:165:ILE:HD11	3:ND:253:ARG:HG3	1.95	0.47
3:BB:289:PRO:O	3:BB:292:THR:OG1	2.23	0.47
3:BD:21:TRP:CZ2	3:BD:65:ALA:HB2	2.49	0.47
3:BD:101:ASN:ND2	2:BE:254:GLU:OE2	2.45	0.47
2:CA:298:PRO:HA	2:CA:301:GLN:HG2	1.96	0.47
3:CB:250:ALA:HA	3:CB:254:LYS:HG3	1.95	0.47
3:CD:21:TRP:CZ2	3:CD:65:ALA:HB2	2.49	0.47
2:CE:234:ILE:HD13	2:CE:272:TYR:HB2	1.96	0.47
3:CF:21:TRP:CZ2	3:CF:65:ALA:HB2	2.49	0.47
2:DC:234:ILE:HD13	2:DC:272:TYR:HB2	1.96	0.47
2:EA:294:ALA:O	2:EA:300:ASN:ND2	2.40	0.47
2:EC:234:ILE:HD13	2:EC:272:TYR:HB2	1.96	0.47
2:FA:186:ASN:O	2:FA:190:THR:HG23	2.14	0.47
3:FD:165:ILE:HD11	3:FD:253:ARG:HG3	1.95	0.47
2:FE:21:TRP:HZ3	2:FE:52:PHE:CD1	2.31	0.47
3:FF:165:ILE:HD11	3:FF:253:ARG:HG3	1.95	0.47
2:GC:188:ILE:CG2	2:GC:189:LEU:HD12	2.43	0.47
2:GC:269:LEU:HG	2:GC:379:SER:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:70:LEU:HD12	3:GD:99:ALA:HB2	1.96	0.47
2:GE:188:ILE:CG2	2:GE:189:LEU:HD12	2.43	0.47
3:GF:21:TRP:CZ2	3:GF:65:ALA:HB2	2.49	0.47
3:GF:27:GLU:OE1	7:GF:502:TA1:H421	2.13	0.47
2:HA:234:ILE:HD13	2:HA:272:TYR:HB2	1.96	0.47
3:HF:314:THR:O	3:HF:380:ASN:N	2.40	0.47
3:IF:21:TRP:CZ2	3:IF:65:ALA:HB2	2.49	0.47
2:JA:269:LEU:HG	2:JA:379:SER:O	2.14	0.47
3:JB:165:ILE:HD11	3:JB:253:ARG:HG3	1.95	0.47
2:JC:269:LEU:HG	2:JC:379:SER:O	2.14	0.47
2:KA:188:ILE:CG2	2:KA:189:LEU:HD12	2.43	0.47
3:KF:21:TRP:CZ2	3:KF:65:ALA:HB2	2.49	0.47
3:KF:154:ILE:HG12	3:KF:166:MET:HE2	1.97	0.47
3:MB:22:GLU:HG2	3:MB:83:PHE:CE2	2.50	0.47
3:MB:70:LEU:HD12	3:MB:99:ALA:HB2	1.96	0.47
3:MD:22:GLU:HG2	3:MD:83:PHE:CE2	2.50	0.47
3:MF:22:GLU:HG2	3:MF:83:PHE:CE2	2.50	0.47
3:NB:191:VAL:HB	3:NB:425:MET:HE1	1.96	0.47
2:NC:298:PRO:HA	2:NC:301:GLN:HG2	1.96	0.47
2:NE:188:ILE:CG2	2:NE:189:LEU:HD12	2.43	0.47
3:NF:70:LEU:HD12	3:NF:99:ALA:HB2	1.96	0.47
1:1D:39:ASP:CG	1:1D:45:LEU:HD22	2.40	0.47
1:1E:39:ASP:CG	1:1E:45:LEU:HD22	2.40	0.47
3:AD:22:GLU:HG2	3:AD:83:PHE:CE2	2.50	0.47
3:AD:70:LEU:HD22	3:AD:110:GLU:HG3	1.96	0.47
2:AE:209:ILE:HA	2:AE:212:ILE:HG12	1.95	0.47
2:AE:294:ALA:O	2:AE:300:ASN:ND2	2.40	0.47
2:AE:394:LYS:HZ3	2:AE:397:LEU:HD23	1.79	0.47
3:AF:22:GLU:HG2	3:AF:83:PHE:CE2	2.50	0.47
3:BB:70:LEU:HD12	3:BB:99:ALA:HB2	1.96	0.47
3:BB:314:THR:O	3:BB:380:ASN:N	2.40	0.47
3:BD:70:LEU:HD12	3:BD:99:ALA:HB2	1.96	0.47
2:BE:172:TYR:N	2:BE:204:VAL:O	2.27	0.47
3:BF:60:LYS:HE3	3:CF:283:TYR:HA	1.96	0.47
3:BF:289:PRO:O	3:BF:292:THR:OG1	2.23	0.47
2:CA:234:ILE:HD13	2:CA:272:TYR:HB2	1.96	0.47
3:CB:22:GLU:HG2	3:CB:83:PHE:CE2	2.50	0.47
2:CC:298:PRO:HA	2:CC:301:GLN:HG2	1.96	0.47
3:CD:22:GLU:HG2	3:CD:83:PHE:CE2	2.50	0.47
3:CD:250:ALA:HA	3:CD:254:LYS:HG3	1.95	0.47
3:CF:22:GLU:HG2	3:CF:83:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CF:250:ALA:HA	3:CF:254:LYS:HG3	1.95	0.47
2:DA:234:ILE:HD13	2:DA:272:TYR:HB2	1.96	0.47
2:DA:269:LEU:HG	2:DA:379:SER:O	2.14	0.47
3:DB:191:VAL:HB	3:DB:425:MET:HE1	1.96	0.47
3:DD:191:VAL:HB	3:DD:425:MET:HE1	1.96	0.47
2:DE:234:ILE:HD13	2:DE:272:TYR:HB2	1.96	0.47
2:DE:269:LEU:HG	2:DE:379:SER:O	2.14	0.47
3:DF:22:GLU:HG2	3:DF:83:PHE:CE2	2.50	0.47
2:EA:186:ASN:O	2:EA:190:THR:HG23	2.14	0.47
3:ED:191:VAL:HB	3:ED:425:MET:HE1	1.96	0.47
3:EF:27:GLU:OE1	7:EF:502:TA1:H421	2.13	0.47
2:FA:21:TRP:HZ3	2:FA:52:PHE:CD1	2.31	0.47
3:FB:21:TRP:CZ2	3:FB:65:ALA:HB2	2.49	0.47
3:FB:103:TRP:HB2	3:FB:186:ASN:OD1	2.15	0.47
3:FB:154:ILE:HG12	3:FB:166:MET:HE2	1.97	0.47
3:FB:165:ILE:HD11	3:FB:253:ARG:HG3	1.95	0.47
2:FC:186:ASN:O	2:FC:190:THR:HG23	2.14	0.47
2:FC:209:ILE:HA	2:FC:212:ILE:HG12	1.95	0.47
3:FD:21:TRP:CZ2	3:FD:65:ALA:HB2	2.49	0.47
2:FE:209:ILE:HA	2:FE:212:ILE:HG12	1.95	0.47
2:GA:269:LEU:HG	2:GA:379:SER:O	2.14	0.47
3:GB:21:TRP:CZ2	3:GB:65:ALA:HB2	2.49	0.47
3:GB:21:TRP:CE3	3:GB:24:ILE:HD11	2.50	0.47
3:GB:403:ALA:HB2	2:GC:346:TRP:CZ2	2.50	0.47
2:GC:234:ILE:HD13	2:GC:272:TYR:HB2	1.96	0.47
3:GD:21:TRP:CE3	3:GD:24:ILE:HD11	2.50	0.47
3:GD:21:TRP:CZ2	3:GD:65:ALA:HB2	2.49	0.47
3:GD:22:GLU:HG2	3:GD:83:PHE:CE2	2.50	0.47
3:GD:314:THR:O	3:GD:380:ASN:N	2.40	0.47
2:GE:269:LEU:HG	2:GE:379:SER:O	2.14	0.47
2:GE:298:PRO:HA	2:GE:301:GLN:HG2	1.96	0.47
3:GF:21:TRP:CE3	3:GF:24:ILE:HD11	2.50	0.47
3:GF:22:GLU:HG2	3:GF:83:PHE:CE2	2.50	0.47
3:GF:314:THR:O	3:GF:380:ASN:N	2.40	0.47
3:HB:21:TRP:CE3	3:HB:24:ILE:HD11	2.50	0.47
3:HB:154:ILE:HG12	3:HB:166:MET:HE2	1.96	0.47
3:HD:21:TRP:CE3	3:HD:24:ILE:HD11	2.50	0.47
2:HE:88:HIS:HB3	2:HE:91:GLN:CD	2.40	0.47
2:HE:234:ILE:HD13	2:HE:272:TYR:HB2	1.96	0.47
3:HF:154:ILE:HG12	3:HF:166:MET:HE2	1.97	0.47
2:IA:269:LEU:HG	2:IA:379:SER:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IC:269:LEU:HG	2:IC:379:SER:O	2.14	0.47
3:ID:165:ILE:HD11	3:ID:253:ARG:HG3	1.95	0.47
2:IE:88:HIS:HB3	2:IE:91:GLN:CD	2.40	0.47
2:IE:269:LEU:HG	2:IE:379:SER:O	2.14	0.47
3:IF:22:GLU:HG2	3:IF:83:PHE:CE2	2.50	0.47
3:IF:60:LYS:HE3	3:JF:283:TYR:HA	1.95	0.47
3:IF:165:ILE:HD11	3:IF:253:ARG:HG3	1.95	0.47
2:JA:21:TRP:HZ3	2:JA:52:PHE:CD1	2.31	0.47
3:JB:70:LEU:HD12	3:JB:99:ALA:HB2	1.95	0.47
3:JD:165:ILE:HD11	3:JD:253:ARG:HG3	1.95	0.47
2:JE:21:TRP:HZ3	2:JE:52:PHE:CD1	2.31	0.47
2:JE:269:LEU:HG	2:JE:379:SER:O	2.14	0.47
3:JF:70:LEU:HD12	3:JF:99:ALA:HB2	1.96	0.47
3:JF:289:PRO:O	3:JF:292:THR:OG1	2.23	0.47
3:KB:154:ILE:HG12	3:KB:166:MET:HE2	1.97	0.47
3:KB:165:ILE:HD11	3:KB:253:ARG:HG3	1.95	0.47
3:KB:315:VAL:HG13	3:KB:351:VAL:HG23	1.97	0.47
2:KC:269:LEU:HG	2:KC:379:SER:O	2.14	0.47
3:KD:154:ILE:HG12	3:KD:166:MET:HE2	1.96	0.47
3:KD:165:ILE:HD11	3:KD:253:ARG:HG3	1.95	0.47
3:KD:315:VAL:HG13	3:KD:351:VAL:HG23	1.97	0.47
2:KE:269:LEU:N	2:KE:379:SER:O	2.47	0.47
3:KF:165:ILE:HD11	3:KF:253:ARG:HG3	1.95	0.47
2:LA:21:TRP:HZ3	2:LA:52:PHE:CD1	2.31	0.47
2:LC:21:TRP:HZ3	2:LC:52:PHE:CD1	2.31	0.47
2:LE:21:TRP:HZ3	2:LE:52:PHE:CD1	2.31	0.47
2:LE:107:HIS:ND1	2:LE:151:SER:OG	2.43	0.47
2:MA:107:HIS:ND1	2:MA:151:SER:OG	2.43	0.47
3:MB:21:TRP:CE3	3:MB:24:ILE:HD11	2.50	0.47
2:MC:401:LYS:CD	3:MD:346:TRP:HE1	2.23	0.47
3:MD:191:VAL:HB	3:MD:425:MET:HE1	1.96	0.47
2:ME:269:LEU:HG	2:ME:379:SER:O	2.14	0.47
3:MF:21:TRP:CZ2	3:MF:65:ALA:HB2	2.49	0.47
3:MF:191:VAL:HB	3:MF:425:MET:HE1	1.96	0.47
2:NA:146:GLY:O	2:NA:150:THR:OG1	2.27	0.47
2:NA:188:ILE:CG2	2:NA:189:LEU:HD12	2.43	0.47
3:NB:21:TRP:CE3	3:NB:24:ILE:HD11	2.50	0.47
3:NB:154:ILE:HG12	3:NB:166:MET:HE2	1.97	0.47
3:ND:21:TRP:CE3	3:ND:24:ILE:HD11	2.50	0.47
3:NF:21:TRP:CE3	3:NF:24:ILE:HD11	2.50	0.47
3:NF:232:SER:HA	3:NF:235:MET:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:70:LEU:HD22	3:AB:110:GLU:HG3	1.96	0.47
3:AD:143:GLY:N	3:AD:183:GLU:OE1	2.45	0.47
3:AD:403:ALA:HB2	2:AE:346:TRP:CH2	2.50	0.47
3:AF:70:LEU:HD22	3:AF:110:GLU:HG3	1.96	0.47
3:AF:143:GLY:N	3:AF:183:GLU:OE1	2.45	0.47
3:BB:143:GLY:N	3:BB:183:GLU:OE1	2.45	0.47
3:BD:22:GLU:HG2	3:BD:83:PHE:CE2	2.50	0.47
3:BF:22:GLU:HG2	3:BF:83:PHE:CE2	2.50	0.47
3:BF:70:LEU:HD12	3:BF:99:ALA:HB2	1.96	0.47
3:BF:232:SER:HA	3:BF:235:MET:HB2	1.97	0.47
3:CB:21:TRP:CZ2	3:CB:65:ALA:HB2	2.49	0.47
2:DC:269:LEU:HG	2:DC:379:SER:O	2.14	0.47
3:DF:191:VAL:HB	3:DF:425:MET:HE1	1.96	0.47
3:DF:289:PRO:O	3:DF:292:THR:OG1	2.23	0.47
2:EE:234:ILE:HD13	2:EE:272:TYR:HB2	1.96	0.47
3:FB:22:GLU:HG2	3:FB:83:PHE:CE2	2.50	0.47
3:FD:21:TRP:CE3	3:FD:24:ILE:HD11	2.50	0.47
3:FD:103:TRP:HB2	3:FD:186:ASN:OD1	2.15	0.47
3:FD:154:ILE:HG12	3:FD:166:MET:HE2	1.97	0.47
3:FF:103:TRP:HB2	3:FF:186:ASN:OD1	2.15	0.47
3:FF:154:ILE:HG12	3:FF:166:MET:HE2	1.97	0.47
2:GA:234:ILE:HD13	2:GA:272:TYR:HB2	1.96	0.47
2:GA:298:PRO:HA	2:GA:301:GLN:HG2	1.96	0.47
2:GE:100:ALA:HA	3:GF:254:LYS:HD3	1.97	0.47
2:HA:269:LEU:N	2:HA:379:SER:O	2.47	0.47
2:HC:269:LEU:N	2:HC:379:SER:O	2.47	0.47
2:HC:422:ARG:CB	2:HC:425:MET:HE2	2.38	0.47
3:HD:154:ILE:HG12	3:HD:166:MET:HE2	1.97	0.47
2:HE:269:LEU:N	2:HE:379:SER:O	2.47	0.47
3:HF:22:GLU:HG2	3:HF:83:PHE:CE2	2.50	0.47
3:IB:165:ILE:HD11	3:IB:253:ARG:HG3	1.95	0.47
2:IC:88:HIS:HB3	2:IC:91:GLN:CD	2.40	0.47
3:ID:21:TRP:CE3	3:ID:24:ILE:HD11	2.50	0.47
3:ID:22:GLU:HG2	3:ID:83:PHE:CE2	2.50	0.47
3:ID:315:VAL:HG13	3:ID:351:VAL:HG23	1.97	0.47
3:IF:315:VAL:HG13	3:IF:351:VAL:HG23	1.97	0.47
2:JA:319:TYR:N	2:JA:354:GLY:O	2.48	0.47
3:JB:154:ILE:HG12	3:JB:166:MET:HE2	1.97	0.47
2:JC:21:TRP:HZ3	2:JC:52:PHE:CD1	2.31	0.47
3:JD:70:LEU:HD12	3:JD:99:ALA:HB2	1.96	0.47
3:JD:154:ILE:HG12	3:JD:166:MET:HE2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:232:SER:HA	3:JF:235:MET:HB2	1.97	0.47
3:KB:21:TRP:CE3	3:KB:24:ILE:HD11	2.50	0.47
3:KD:21:TRP:CE3	3:KD:24:ILE:HD11	2.50	0.47
3:KF:315:VAL:HG13	3:KF:351:VAL:HG23	1.97	0.47
2:LE:269:LEU:N	2:LE:379:SER:O	2.47	0.47
3:LF:21:TRP:CE3	3:LF:24:ILE:HD11	2.50	0.47
3:LF:232:SER:HA	3:LF:235:MET:HB2	1.97	0.47
3:MB:191:VAL:HB	3:MB:425:MET:HE1	1.96	0.47
3:MD:21:TRP:CE3	3:MD:24:ILE:HD11	2.50	0.47
3:NB:22:GLU:HG2	3:NB:83:PHE:CE2	2.50	0.47
3:ND:22:GLU:HG2	3:ND:83:PHE:CE2	2.50	0.47
3:ND:154:ILE:HG12	3:ND:166:MET:HE2	1.97	0.47
3:ND:191:VAL:HB	3:ND:425:MET:HE1	1.96	0.47
3:NF:57:THR:O	3:NF:60:LYS:NZ	2.42	0.47
2:AA:221:ARG:NH2	3:AB:327:GLU:OE2	2.47	0.47
2:AA:298:PRO:HA	2:AA:301:GLN:HG2	1.96	0.47
3:AB:21:TRP:CE3	3:AB:24:ILE:HD11	2.50	0.47
3:AB:22:GLU:HG2	3:AB:83:PHE:CE2	2.50	0.47
3:AB:154:ILE:HG12	3:AB:166:MET:HE2	1.97	0.47
3:AD:21:TRP:CE3	3:AD:24:ILE:HD11	2.50	0.47
3:AD:154:ILE:HG12	3:AD:166:MET:HE2	1.97	0.47
3:AD:314:THR:O	3:AD:380:ASN:N	2.40	0.47
3:AF:21:TRP:CE3	3:AF:24:ILE:HD11	2.50	0.47
3:AF:88:ARG:HH12	3:BF:283:TYR:HB2	1.80	0.47
3:AF:154:ILE:HG12	3:AF:166:MET:HE2	1.96	0.47
2:BA:172:TYR:N	2:BA:204:VAL:O	2.27	0.47
3:BD:232:SER:HA	3:BD:235:MET:HB2	1.97	0.47
2:DA:298:PRO:HA	2:DA:301:GLN:HG2	1.96	0.47
3:DB:315:VAL:HG13	3:DB:351:VAL:HG23	1.97	0.47
3:DD:315:VAL:HG13	3:DD:351:VAL:HG23	1.97	0.47
3:DF:315:VAL:HG13	3:DF:351:VAL:HG23	1.97	0.47
2:EE:186:ASN:O	2:EE:190:THR:HG23	2.14	0.47
3:EF:22:GLU:HG2	3:EF:83:PHE:CE2	2.50	0.47
2:FA:234:ILE:HD13	2:FA:272:TYR:HB2	1.96	0.47
3:FB:21:TRP:CE3	3:FB:24:ILE:HD11	2.50	0.47
3:FB:315:VAL:HG13	3:FB:351:VAL:HG23	1.97	0.47
2:FC:298:PRO:HA	2:FC:301:GLN:HG2	1.96	0.47
2:FE:234:ILE:HD13	2:FE:272:TYR:HB2	1.96	0.47
3:FF:21:TRP:CZ2	3:FF:65:ALA:HB2	2.49	0.47
3:FF:315:VAL:HG13	3:FF:351:VAL:HG23	1.97	0.47
3:GB:70:LEU:HD12	3:GB:99:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GC:88:HIS:HB3	2:GC:91:GLN:CD	2.40	0.47
2:GC:298:PRO:HA	2:GC:301:GLN:HG2	1.96	0.47
3:GD:154:ILE:HG12	3:GD:166:MET:HE2	1.97	0.47
3:GF:154:ILE:HG12	3:GF:166:MET:HE2	1.97	0.47
2:HA:88:HIS:HB3	2:HA:91:GLN:CD	2.40	0.47
2:HA:188:ILE:CG2	2:HA:189:LEU:HD12	2.43	0.47
2:HC:88:HIS:HB3	2:HC:91:GLN:CD	2.40	0.47
3:HD:22:GLU:HG2	3:HD:83:PHE:CE2	2.50	0.47
3:HF:21:TRP:CE3	3:HF:24:ILE:HD11	2.50	0.47
3:IB:21:TRP:CE3	3:IB:24:ILE:HD11	2.50	0.47
3:IB:315:VAL:HG13	3:IB:351:VAL:HG23	1.97	0.47
2:IE:188:ILE:CG2	2:IE:189:LEU:HD12	2.43	0.47
3:IF:21:TRP:CE3	3:IF:24:ILE:HD11	2.50	0.47
3:JB:232:SER:HA	3:JB:235:MET:HB2	1.97	0.47
2:JC:105:ARG:NH1	3:JD:253:ARG:HD2	2.27	0.47
2:JC:319:TYR:N	2:JC:354:GLY:O	2.48	0.47
2:JE:319:TYR:N	2:JE:354:GLY:O	2.48	0.47
3:JF:22:GLU:HG2	3:JF:83:PHE:CE2	2.50	0.47
2:KC:269:LEU:N	2:KC:379:SER:O	2.47	0.47
2:KE:88:HIS:HB3	2:KE:91:GLN:CD	2.40	0.47
2:KE:269:LEU:HG	2:KE:379:SER:O	2.14	0.47
3:KF:232:SER:HA	3:KF:235:MET:HB2	1.97	0.47
3:LB:21:TRP:CE3	3:LB:24:ILE:HD11	2.50	0.47
3:LB:22:GLU:HG2	3:LB:83:PHE:CE2	2.50	0.47
2:LC:107:HIS:ND1	2:LC:151:SER:OG	2.43	0.47
3:LD:21:TRP:CE3	3:LD:24:ILE:HD11	2.50	0.47
3:LF:22:GLU:HG2	3:LF:83:PHE:CE2	2.50	0.47
2:MA:269:LEU:HG	2:MA:379:SER:O	2.14	0.47
2:MC:172:TYR:N	2:MC:204:VAL:O	2.27	0.47
2:MC:269:LEU:HG	2:MC:379:SER:O	2.14	0.47
2:MC:319:TYR:N	2:MC:354:GLY:O	2.48	0.47
3:NB:232:SER:HA	3:NB:235:MET:HB2	1.97	0.47
3:ND:232:SER:HA	3:ND:235:MET:HB2	1.97	0.47
2:NE:298:PRO:HA	2:NE:301:GLN:HG2	1.96	0.47
3:NF:22:GLU:HG2	3:NF:83:PHE:CE2	2.50	0.47
2:AA:294:ALA:O	2:AA:300:ASN:ND2	2.40	0.47
3:AB:191:VAL:HB	3:AB:425:MET:HE1	1.96	0.47
2:AC:298:PRO:HA	2:AC:301:GLN:HG2	1.96	0.47
2:AE:298:PRO:HA	2:AE:301:GLN:HG2	1.96	0.47
3:AF:191:VAL:HB	3:AF:425:MET:HE1	1.96	0.47
3:BB:89:PRO:HA	3:BB:92:PHE:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:232:SER:HA	3:BB:235:MET:HB2	1.97	0.47
2:BC:298:PRO:HA	2:BC:301:GLN:HG2	1.96	0.47
2:BE:298:PRO:HA	2:BE:301:GLN:HG2	1.96	0.47
3:BF:191:VAL:HB	3:BF:425:MET:HE1	1.96	0.47
3:CB:232:SER:HA	3:CB:235:MET:HB2	1.97	0.47
2:CE:298:PRO:HA	2:CE:301:GLN:HG2	1.96	0.47
3:DB:22:GLU:HG2	3:DB:83:PHE:CE2	2.50	0.47
2:DC:298:PRO:HA	2:DC:301:GLN:HG2	1.96	0.47
3:DD:22:GLU:HG2	3:DD:83:PHE:CE2	2.50	0.47
2:DE:298:PRO:HA	2:DE:301:GLN:HG2	1.96	0.47
2:EA:21:TRP:HZ3	2:EA:52:PHE:CD1	2.31	0.47
2:EA:234:ILE:HD13	2:EA:272:TYR:HB2	1.96	0.47
3:EB:70:LEU:HD12	3:EB:99:ALA:HB2	1.96	0.47
2:EC:221:ARG:HE	3:ED:324:SER:HB3	1.79	0.47
3:ED:314:THR:O	3:ED:380:ASN:N	2.40	0.47
2:EE:294:ALA:O	2:EE:300:ASN:ND2	2.40	0.47
3:EF:276:THR:OG1	7:EF:502:TA1:O07	2.14	0.47
3:FB:89:PRO:HA	3:FB:92:PHE:CD2	2.50	0.47
3:FD:22:GLU:HG2	3:FD:83:PHE:CE2	2.50	0.47
3:FD:89:PRO:HA	3:FD:92:PHE:CD2	2.50	0.47
3:FD:315:VAL:HG13	3:FD:351:VAL:HG23	1.97	0.47
3:FF:21:TRP:CE3	3:FF:24:ILE:HD11	2.50	0.47
3:FF:22:GLU:HG2	3:FF:83:PHE:CE2	2.50	0.47
3:FF:143:GLY:N	3:FF:183:GLU:OE1	2.45	0.47
2:GA:88:HIS:HB3	2:GA:91:GLN:CD	2.40	0.47
3:GB:22:GLU:HG2	3:GB:83:PHE:CE2	2.50	0.47
3:GB:154:ILE:HG12	3:GB:166:MET:HE2	1.97	0.47
2:GE:88:HIS:HB3	2:GE:91:GLN:CD	2.40	0.47
2:HA:269:LEU:HG	2:HA:379:SER:O	2.14	0.47
3:HB:165:ILE:HD11	3:HB:253:ARG:HG3	1.95	0.47
2:HE:269:LEU:HG	2:HE:379:SER:O	2.14	0.47
2:HE:422:ARG:CB	2:HE:425:MET:HE2	2.38	0.47
2:IA:88:HIS:HB3	2:IA:91:GLN:CD	2.40	0.47
3:IB:232:SER:HA	3:IB:235:MET:HB2	1.97	0.47
3:ID:232:SER:HA	3:ID:235:MET:HB2	1.97	0.47
2:IE:222:PRO:HD2	3:IF:326:LYS:NZ	2.30	0.47
2:JA:88:HIS:HB3	2:JA:91:GLN:CD	2.40	0.47
2:JC:88:HIS:HB3	2:JC:91:GLN:CD	2.40	0.47
3:JD:21:TRP:CE3	3:JD:24:ILE:HD11	2.50	0.47
3:JD:232:SER:HA	3:JD:235:MET:HB2	1.97	0.47
3:JF:21:TRP:CE3	3:JF:24:ILE:HD11	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JF:165:ILE:HD11	3:JF:253:ARG:HG3	1.95	0.47
2:KA:269:LEU:N	2:KA:379:SER:O	2.47	0.47
2:KC:88:HIS:HB3	2:KC:91:GLN:CD	2.40	0.47
3:KD:22:GLU:HG2	3:KD:83:PHE:CE2	2.50	0.47
3:KD:232:SER:HA	3:KD:235:MET:HB2	1.97	0.47
3:KF:21:TRP:CE3	3:KF:24:ILE:HD11	2.50	0.47
3:KF:22:GLU:HG2	3:KF:83:PHE:CE2	2.50	0.47
2:LA:269:LEU:N	2:LA:379:SER:O	2.47	0.47
2:LC:269:LEU:HG	2:LC:379:SER:O	2.14	0.47
3:LD:22:GLU:HG2	3:LD:83:PHE:CE2	2.50	0.47
3:LD:232:SER:HA	3:LD:235:MET:HB2	1.97	0.47
3:LD:401:ARG:HD2	2:LE:346:TRP:CZ2	2.50	0.47
3:LF:89:PRO:HA	3:LF:92:PHE:CD2	2.50	0.47
2:MA:319:TYR:N	2:MA:354:GLY:O	2.48	0.47
3:MB:89:PRO:HA	3:MB:92:PHE:CD2	2.50	0.47
3:MD:89:PRO:HA	3:MD:92:PHE:CD2	2.50	0.47
2:ME:319:TYR:N	2:ME:354:GLY:O	2.48	0.47
3:MF:21:TRP:CE3	3:MF:24:ILE:HD11	2.50	0.47
3:MF:89:PRO:HA	3:MF:92:PHE:CD2	2.50	0.47
3:MF:232:SER:HA	3:MF:235:MET:HB2	1.97	0.47
2:NA:100:ALA:HA	3:NB:254:LYS:HD3	1.97	0.47
3:NF:154:ILE:HG12	3:NF:166:MET:HE2	1.97	0.47
3:NF:191:VAL:HB	3:NF:425:MET:HE1	1.96	0.47
3:NF:324:SER:OG	3:NF:325:MET:N	2.45	0.47
2:AC:294:ALA:O	2:AC:300:ASN:ND2	2.40	0.46
3:AD:191:VAL:HB	3:AD:425:MET:HE1	1.96	0.46
3:BB:22:GLU:HG2	3:BB:83:PHE:CE2	2.50	0.46
3:BB:191:VAL:HB	3:BB:425:MET:HE1	1.96	0.46
3:BF:89:PRO:HA	3:BF:92:PHE:CD2	2.50	0.46
3:CB:89:PRO:HA	3:CB:92:PHE:CD2	2.50	0.46
3:CF:191:VAL:HB	3:CF:425:MET:HE1	1.96	0.46
3:CF:232:SER:HA	3:CF:235:MET:HB2	1.97	0.46
2:DA:146:GLY:O	2:DA:150:THR:OG1	2.27	0.46
3:DB:89:PRO:HA	3:DB:92:PHE:CD2	2.50	0.46
2:EA:298:PRO:HA	2:EA:301:GLN:HG2	1.96	0.46
3:EB:314:THR:O	3:EB:380:ASN:N	2.40	0.46
2:EC:186:ASN:O	2:EC:190:THR:HG23	2.14	0.46
2:EC:298:PRO:HA	2:EC:301:GLN:HG2	1.96	0.46
3:EF:103:TRP:HB2	3:EF:186:ASN:OD1	2.15	0.46
2:FE:298:PRO:HA	2:FE:301:GLN:HG2	1.96	0.46
3:FF:89:PRO:HA	3:FF:92:PHE:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:GA:501:GTP:PG	3:GB:254:LYS:HZ1	2.38	0.46
3:GB:314:THR:O	3:GB:380:ASN:N	2.40	0.46
2:GE:234:ILE:HD13	2:GE:272:TYR:HB2	1.96	0.46
3:GF:89:PRO:HA	3:GF:92:PHE:CD2	2.50	0.46
3:HB:22:GLU:HG2	3:HB:83:PHE:CE2	2.50	0.46
3:HB:232:SER:HA	3:HB:235:MET:HB2	1.97	0.46
2:HC:188:ILE:CG2	2:HC:189:LEU:HD12	2.43	0.46
3:HD:165:ILE:HD11	3:HD:253:ARG:HG3	1.95	0.46
3:HD:232:SER:HA	3:HD:235:MET:HB2	1.97	0.46
2:HE:188:ILE:CG2	2:HE:189:LEU:HD12	2.43	0.46
3:HF:165:ILE:HD11	3:HF:253:ARG:HG3	1.95	0.46
3:HF:232:SER:HA	3:HF:235:MET:HB2	1.97	0.46
3:IB:22:GLU:HG2	3:IB:83:PHE:CE2	2.50	0.46
2:IC:269:LEU:N	2:IC:379:SER:O	2.47	0.46
3:IF:232:SER:HA	3:IF:235:MET:HB2	1.97	0.46
3:JB:21:TRP:CE3	3:JB:24:ILE:HD11	2.50	0.46
2:JE:88:HIS:HB3	2:JE:91:GLN:CD	2.40	0.46
3:JF:69:ASP:OD2	3:JF:74:THR:OG1	2.18	0.46
3:JF:154:ILE:HG12	3:JF:166:MET:HE2	1.97	0.46
2:KA:88:HIS:HB3	2:KA:91:GLN:CD	2.40	0.46
2:KA:180:ALA:HB1	3:KB:258:ASN:OD1	2.14	0.46
2:KA:269:LEU:HG	2:KA:379:SER:O	2.14	0.46
3:KB:232:SER:HA	3:KB:235:MET:HB2	1.97	0.46
3:KD:89:PRO:HA	3:KD:92:PHE:CD2	2.50	0.46
2:LA:172:TYR:N	2:LA:204:VAL:O	2.27	0.46
3:LB:89:PRO:HA	3:LB:92:PHE:CD2	2.50	0.46
3:LB:232:SER:HA	3:LB:235:MET:HB2	1.97	0.46
2:LC:269:LEU:N	2:LC:379:SER:O	2.47	0.46
3:LD:89:PRO:HA	3:LD:92:PHE:CD2	2.50	0.46
2:LE:269:LEU:HG	2:LE:379:SER:O	2.14	0.46
3:MB:154:ILE:HG12	3:MB:166:MET:HE2	1.97	0.46
3:MB:165:ILE:HD11	3:MB:253:ARG:HG3	1.95	0.46
3:MF:315:VAL:HG13	3:MF:351:VAL:HG23	1.97	0.46
2:NA:269:LEU:HG	2:NA:379:SER:O	2.14	0.46
3:ND:324:SER:OG	3:ND:325:MET:N	2.45	0.46
2:NE:269:LEU:HG	2:NE:379:SER:O	2.14	0.46
1:1A:63:TYR:CE1	1:1A:78:HIS:HB3	2.51	0.46
1:1B:61:HIS:C	2:AC:308:ARG:NH1	2.74	0.46
1:1D:63:TYR:CE1	1:1D:78:HIS:HB3	2.51	0.46
2:AC:88:HIS:HB3	2:AC:91:GLN:CD	2.40	0.46
3:AD:232:SER:HA	3:AD:235:MET:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:70:LEU:HD12	3:AF:99:ALA:HB2	1.96	0.46
3:AF:232:SER:HA	3:AF:235:MET:HB2	1.97	0.46
2:BA:298:PRO:HA	2:BA:301:GLN:HG2	1.96	0.46
3:BD:89:PRO:HA	3:BD:92:PHE:CD2	2.50	0.46
3:BD:101:ASN:HD22	2:BE:254:GLU:HG3	1.81	0.46
3:BD:191:VAL:HB	3:BD:425:MET:HE1	1.96	0.46
2:BE:88:HIS:HB3	2:BE:91:GLN:CD	2.40	0.46
3:CB:103:TRP:HB2	3:CB:186:ASN:OD1	2.15	0.46
3:CB:191:VAL:HB	3:CB:425:MET:HE1	1.96	0.46
3:CD:89:PRO:HA	3:CD:92:PHE:CD2	2.50	0.46
3:CD:103:TRP:HB2	3:CD:186:ASN:OD1	2.15	0.46
3:CD:232:SER:HA	3:CD:235:MET:HB2	1.97	0.46
3:CF:89:PRO:HA	3:CF:92:PHE:CD2	2.50	0.46
3:CF:103:TRP:HB2	3:CF:186:ASN:OD1	2.15	0.46
3:DD:89:PRO:HA	3:DD:92:PHE:CD2	2.50	0.46
3:DD:269:MET:HE1	3:DD:303:ALA:HB3	1.98	0.46
3:DF:89:PRO:HA	3:DF:92:PHE:CD2	2.50	0.46
3:EB:21:TRP:CE3	3:EB:24:ILE:HD11	2.50	0.46
3:ED:22:GLU:HG2	3:ED:83:PHE:CE2	2.50	0.46
2:EE:21:TRP:HZ3	2:EE:52:PHE:CD1	2.31	0.46
2:EE:298:PRO:HA	2:EE:301:GLN:HG2	1.96	0.46
2:FC:88:HIS:HB3	2:FC:91:GLN:CD	2.40	0.46
2:FC:234:ILE:HD13	2:FC:272:TYR:HB2	1.96	0.46
3:FF:314:THR:O	3:FF:380:ASN:N	2.40	0.46
3:GB:89:PRO:HA	3:GB:92:PHE:CD2	2.50	0.46
3:GD:89:PRO:HA	3:GD:92:PHE:CD2	2.51	0.46
2:HA:422:ARG:CB	2:HA:425:MET:HE2	2.38	0.46
2:HC:88:HIS:NE2	2:IC:284:GLU:OE2	2.48	0.46
2:HC:269:LEU:HG	2:HC:379:SER:O	2.14	0.46
2:IC:21:TRP:HZ3	2:IC:52:PHE:CD1	2.31	0.46
3:JD:22:GLU:HG2	3:JD:83:PHE:CE2	2.50	0.46
3:KB:22:GLU:HG2	3:KB:83:PHE:CE2	2.50	0.46
3:KB:89:PRO:HA	3:KB:92:PHE:CD2	2.51	0.46
2:LE:88:HIS:HB3	2:LE:91:GLN:CD	2.40	0.46
3:MB:232:SER:HA	3:MB:235:MET:HB2	1.97	0.46
3:MB:315:VAL:HG13	3:MB:351:VAL:HG23	1.97	0.46
2:MC:88:HIS:CD2	2:NC:284:GLU:OE2	2.68	0.46
3:MD:165:ILE:HD11	3:MD:253:ARG:HG3	1.95	0.46
3:MD:315:VAL:HG13	3:MD:351:VAL:HG23	1.97	0.46
3:NB:181:VAL:HG23	2:NC:352:LYS:HB2	1.96	0.46
3:NB:324:SER:OG	3:NB:325:MET:N	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NC:222:PRO:O	3:ND:326:LYS:NZ	2.47	0.46
2:NC:269:LEU:HG	2:NC:379:SER:O	2.14	0.46
3:AB:89:PRO:HA	3:AB:92:PHE:CD2	2.50	0.46
2:BA:319:TYR:N	2:BA:354:GLY:O	2.48	0.46
2:BC:88:HIS:HB3	2:BC:91:GLN:CD	2.40	0.46
3:BD:315:VAL:HG13	3:BD:351:VAL:HG23	1.97	0.46
3:CD:191:VAL:HB	3:CD:425:MET:HE1	1.96	0.46
2:CE:70:LEU:HD12	2:CE:99:ALA:HB2	1.97	0.46
3:DB:269:MET:HE1	3:DB:303:ALA:HB3	1.98	0.46
2:DC:88:HIS:HB3	2:DC:91:GLN:CD	2.40	0.46
2:DE:88:HIS:HB3	2:DE:91:GLN:CD	2.40	0.46
3:EB:69:ASP:OD2	3:EB:74:THR:OG1	2.18	0.46
3:EB:232:SER:HA	3:EB:235:MET:HB2	1.97	0.46
3:ED:21:TRP:CE3	3:ED:24:ILE:HD11	2.50	0.46
3:EF:21:TRP:CE3	3:EF:24:ILE:HD11	2.50	0.46
2:FA:298:PRO:HA	2:FA:301:GLN:HG2	1.96	0.46
3:FD:232:SER:HA	3:FD:235:MET:HB2	1.97	0.46
2:FE:88:HIS:HB3	2:FE:91:GLN:CD	2.40	0.46
2:GC:224:TYR:HE1	3:GD:325:MET:HG3	1.80	0.46
3:GF:69:ASP:OD2	3:GF:74:THR:OG1	2.18	0.46
3:HB:315:VAL:HG13	3:HB:351:VAL:HG23	1.97	0.46
3:HD:315:VAL:HG13	3:HD:351:VAL:HG23	1.97	0.46
2:IC:100:ALA:O	3:ID:257:VAL:HG21	2.16	0.46
3:ID:401:ARG:C	2:IE:346:TRP:HH2	2.23	0.46
3:JF:89:PRO:HA	3:JF:92:PHE:CD2	2.50	0.46
2:LA:101:ASN:N	3:LB:254:LYS:HZ2	2.13	0.46
2:LA:269:LEU:HG	2:LA:379:SER:O	2.14	0.46
3:LB:69:ASP:OD2	3:LB:74:THR:OG1	2.18	0.46
2:LC:88:HIS:HB3	2:LC:91:GLN:CD	2.40	0.46
3:LF:269:MET:HE1	3:LF:303:ALA:HB3	1.98	0.46
3:MB:289:PRO:O	3:MB:292:THR:OG1	2.23	0.46
2:MC:21:TRP:HZ3	2:MC:52:PHE:CD1	2.31	0.46
3:MD:154:ILE:HG12	3:MD:166:MET:HE2	1.97	0.46
2:ME:21:TRP:HZ3	2:ME:52:PHE:CD1	2.31	0.46
3:MF:165:ILE:HD11	3:MF:253:ARG:HG3	1.95	0.46
1:1B:63:TYR:CE1	1:1B:78:HIS:HB3	2.51	0.46
2:AA:88:HIS:HB3	2:AA:91:GLN:CD	2.40	0.46
3:AB:70:LEU:HD12	3:AB:99:ALA:HB2	1.96	0.46
3:AB:232:SER:HA	3:AB:235:MET:HB2	1.97	0.46
3:AD:89:PRO:HA	3:AD:92:PHE:CD2	2.50	0.46
3:AD:315:VAL:HG13	3:AD:351:VAL:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:314:THR:O	3:AF:380:ASN:N	2.40	0.46
3:BB:269:MET:HE1	3:BB:303:ALA:HB3	1.98	0.46
3:BD:221:THR:HA	2:BE:326:LYS:NZ	2.30	0.46
3:BF:315:VAL:HG13	3:BF:351:VAL:HG23	1.97	0.46
2:CA:70:LEU:HD12	2:CA:99:ALA:HB2	1.98	0.46
3:CB:315:VAL:HG13	3:CB:351:VAL:HG23	1.97	0.46
2:CC:70:LEU:HD12	2:CC:99:ALA:HB2	1.98	0.46
3:CD:315:VAL:HG13	3:CD:351:VAL:HG23	1.97	0.46
3:DF:21:TRP:CE3	3:DF:24:ILE:HD11	2.50	0.46
3:DF:103:TRP:HB2	3:DF:186:ASN:OD1	2.15	0.46
3:DF:232:SER:HA	3:DF:235:MET:HB2	1.97	0.46
3:DF:269:MET:HE1	3:DF:303:ALA:HB3	1.98	0.46
2:EA:88:HIS:HB3	2:EA:91:GLN:CD	2.40	0.46
3:EB:89:PRO:HA	3:EB:92:PHE:CD2	2.51	0.46
2:EC:21:TRP:HZ3	2:EC:52:PHE:CD1	2.31	0.46
3:ED:70:LEU:HD12	3:ED:99:ALA:HB2	1.96	0.46
3:ED:103:TRP:HB2	3:ED:186:ASN:OD1	2.15	0.46
3:ED:232:SER:HA	3:ED:235:MET:HB2	1.97	0.46
2:EE:88:HIS:HB3	2:EE:91:GLN:CD	2.40	0.46
3:EF:70:LEU:HD12	3:EF:99:ALA:HB2	1.96	0.46
3:EF:232:SER:HA	3:EF:235:MET:HB2	1.97	0.46
3:FB:232:SER:HA	3:FB:235:MET:HB2	1.97	0.46
3:FD:143:GLY:N	3:FD:183:GLU:OE1	2.45	0.46
3:FD:314:THR:O	3:FD:380:ASN:N	2.40	0.46
3:GB:103:TRP:HB2	3:GB:186:ASN:OD1	2.15	0.46
3:GB:232:SER:HA	3:GB:235:MET:HB2	1.97	0.46
3:GD:232:SER:HA	3:GD:235:MET:HB2	1.97	0.46
3:GD:269:MET:HE1	3:GD:303:ALA:HB3	1.98	0.46
3:GF:269:MET:HE1	3:GF:303:ALA:HB3	1.98	0.46
2:IA:172:TYR:N	2:IA:204:VAL:O	2.27	0.46
3:IB:269:MET:HE1	3:IB:303:ALA:HB3	1.98	0.46
2:IE:21:TRP:HZ3	2:IE:52:PHE:CD1	2.31	0.46
2:IE:172:TYR:N	2:IE:204:VAL:O	2.27	0.46
3:IF:238:VAL:HG12	3:IF:378:ILE:HD11	1.98	0.46
3:JB:22:GLU:HG2	3:JB:83:PHE:CE2	2.50	0.46
3:JD:269:MET:HE1	3:JD:303:ALA:HB3	1.98	0.46
3:JF:269:MET:HE1	3:JF:303:ALA:HB3	1.98	0.46
3:KF:89:PRO:HA	3:KF:92:PHE:CD2	2.51	0.46
3:KF:238:VAL:HG12	3:KF:378:ILE:HD11	1.98	0.46
2:LA:88:HIS:HB3	2:LA:91:GLN:CD	2.40	0.46
2:LA:294:ALA:O	2:LA:300:ASN:ND2	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:60:LYS:CE	3:MF:282:GLN:NE2	2.78	0.46
2:MC:89:PRO:HD2	2:NC:280:LYS:NZ	2.30	0.46
2:ME:172:TYR:N	2:ME:204:VAL:O	2.27	0.46
3:NB:401:ARG:O	2:NC:346:TRP:CZ2	2.68	0.46
3:AB:143:GLY:N	3:AB:183:GLU:OE1	2.45	0.46
3:AB:314:THR:O	3:AB:380:ASN:N	2.40	0.46
3:AB:315:VAL:HG13	3:AB:351:VAL:HG23	1.97	0.46
3:AD:70:LEU:HD12	3:AD:99:ALA:HB2	1.96	0.46
3:AD:324:SER:OG	3:AD:325:MET:N	2.45	0.46
3:BB:315:VAL:HG13	3:BB:351:VAL:HG23	1.97	0.46
3:BD:269:MET:HE1	3:BD:303:ALA:HB3	1.98	0.46
2:BE:319:TYR:N	2:BE:354:GLY:O	2.48	0.46
3:BF:103:TRP:HB2	3:BF:186:ASN:OD1	2.15	0.46
3:BF:257:VAL:HG13	3:BF:258:ASN:HD22	1.81	0.46
3:BF:269:MET:HE1	3:BF:303:ALA:HB3	1.98	0.46
3:CF:315:VAL:HG13	3:CF:351:VAL:HG23	1.97	0.46
2:DA:88:HIS:HB3	2:DA:91:GLN:CD	2.40	0.46
3:DB:232:SER:HA	3:DB:235:MET:HB2	1.97	0.46
3:DD:232:SER:HA	3:DD:235:MET:HB2	1.97	0.46
2:DE:70:LEU:HD12	2:DE:99:ALA:HB2	1.98	0.46
2:DE:100:ALA:HA	3:DF:254:LYS:HD3	1.96	0.46
2:EA:70:LEU:HD12	2:EA:99:ALA:HB2	1.98	0.46
3:EB:22:GLU:HG2	3:EB:83:PHE:CE2	2.50	0.46
3:EB:315:VAL:HG13	3:EB:351:VAL:HG23	1.97	0.46
3:ED:89:PRO:HA	3:ED:92:PHE:CD2	2.50	0.46
2:EE:70:LEU:HD12	2:EE:99:ALA:HB2	1.97	0.46
3:EF:89:PRO:HA	3:EF:92:PHE:CD2	2.50	0.46
2:FA:88:HIS:HB3	2:FA:91:GLN:CD	2.40	0.46
3:FB:143:GLY:N	3:FB:183:GLU:OE1	2.45	0.46
3:FF:232:SER:HA	3:FF:235:MET:HB2	1.97	0.46
3:GB:269:MET:HE1	3:GB:303:ALA:HB3	1.98	0.46
3:GF:238:VAL:HG12	3:GF:378:ILE:HD11	1.98	0.46
3:HB:257:VAL:HG13	3:HB:258:ASN:HD22	1.81	0.46
2:HE:400:ALA:HB3	3:HF:346:TRP:CH2	2.48	0.46
2:IA:21:TRP:HZ3	2:IA:52:PHE:CD1	2.31	0.46
3:IB:238:VAL:HG12	3:IB:378:ILE:HD11	1.98	0.46
3:ID:238:VAL:HG12	3:ID:378:ILE:HD11	1.98	0.46
3:ID:269:MET:HE1	3:ID:303:ALA:HB3	1.98	0.46
2:IE:269:LEU:N	2:IE:379:SER:O	2.47	0.46
3:IF:269:MET:HE1	3:IF:303:ALA:HB3	1.98	0.46
3:JB:269:MET:HE1	3:JB:303:ALA:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LC:172:TYR:N	2:LC:204:VAL:O	2.27	0.46
3:LD:269:MET:HE1	3:LD:303:ALA:HB3	1.98	0.46
3:LD:315:VAL:HG13	3:LD:351:VAL:HG23	1.97	0.46
3:LF:315:VAL:HG13	3:LF:351:VAL:HG23	1.97	0.46
2:MC:88:HIS:HB3	2:MC:91:GLN:CD	2.40	0.46
3:MD:232:SER:HA	3:MD:235:MET:HB2	1.97	0.46
2:ME:88:HIS:HB3	2:ME:91:GLN:CD	2.40	0.46
2:ME:224:TYR:CZ	3:MF:325:MET:HG3	2.43	0.46
3:NB:269:MET:HE1	3:NB:303:ALA:HB3	1.98	0.46
3:ND:269:MET:HE1	3:ND:303:ALA:HB3	1.98	0.46
1:1C:63:TYR:CE1	1:1C:78:HIS:HB3	2.51	0.46
1:1E:63:TYR:CE1	1:1E:78:HIS:HB3	2.51	0.46
2:AA:122:ILE:HD13	2:AA:157:LEU:HD21	1.98	0.46
2:AC:122:ILE:HD13	2:AC:157:LEU:HD21	1.98	0.46
2:AE:88:HIS:HB3	2:AE:91:GLN:CD	2.40	0.46
2:AE:122:ILE:HD13	2:AE:157:LEU:HD21	1.98	0.46
3:AF:89:PRO:HA	3:AF:92:PHE:CD2	2.50	0.46
3:AF:315:VAL:HG13	3:AF:351:VAL:HG23	1.97	0.46
3:AF:324:SER:OG	3:AF:325:MET:N	2.45	0.46
2:BA:88:HIS:HB3	2:BA:91:GLN:CD	2.40	0.46
3:BB:21:TRP:CE3	3:BB:24:ILE:HD11	2.50	0.46
3:BD:257:VAL:HG13	3:BD:258:ASN:HD22	1.81	0.46
3:BF:21:TRP:CE3	3:BF:24:ILE:HD11	2.50	0.46
2:CC:105:ARG:HH12	3:CD:253:ARG:HD2	1.80	0.46
3:CD:70:LEU:HD12	3:CD:99:ALA:HB2	1.96	0.46
3:DB:154:ILE:HG12	3:DB:166:MET:HE2	1.97	0.46
2:DC:70:LEU:HD12	2:DC:99:ALA:HB2	1.98	0.46
3:DD:21:TRP:CE3	3:DD:24:ILE:HD11	2.50	0.46
3:DF:154:ILE:HG12	3:DF:166:MET:HE2	1.97	0.46
2:EA:105:ARG:HH12	3:EB:253:ARG:HD2	1.81	0.46
2:EC:70:LEU:HD12	2:EC:99:ALA:HB2	1.98	0.46
2:EC:88:HIS:HB3	2:EC:91:GLN:CD	2.40	0.46
3:ED:60:LYS:HE3	3:FD:282:GLN:NE2	2.30	0.46
3:EF:69:ASP:OD2	3:EF:74:THR:OG1	2.18	0.46
3:EF:314:THR:O	3:EF:380:ASN:N	2.40	0.46
3:FD:257:VAL:HG13	3:FD:258:ASN:HD22	1.81	0.46
3:GD:257:VAL:HG13	3:GD:258:ASN:HD22	1.81	0.46
3:GF:232:SER:HA	3:GF:235:MET:HB2	1.97	0.46
3:HD:257:VAL:HG13	3:HD:258:ASN:HD22	1.81	0.46
3:HF:315:VAL:HG13	3:HF:351:VAL:HG23	1.97	0.46
3:IB:103:TRP:HB2	3:IB:186:ASN:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:257:VAL:HG13	3:IB:258:ASN:HD22	1.81	0.46
3:ID:89:PRO:HA	3:ID:92:PHE:CD2	2.50	0.46
3:JD:89:PRO:HA	3:JD:92:PHE:CD2	2.50	0.46
2:KA:319:TYR:N	2:KA:354:GLY:O	2.48	0.46
3:KB:238:VAL:HG12	3:KB:378:ILE:HD11	1.98	0.46
3:LB:269:MET:HE1	3:LB:303:ALA:HB3	1.98	0.46
2:LC:317:LEU:HB3	2:LC:319:TYR:CE2	2.51	0.46
2:LE:317:LEU:HB3	2:LE:319:TYR:CE2	2.51	0.46
2:MA:21:TRP:HZ3	2:MA:52:PHE:CD1	2.31	0.46
2:MA:122:ILE:HD13	2:MA:157:LEU:HD21	1.98	0.46
2:ME:122:ILE:HD13	2:ME:157:LEU:HD21	1.98	0.46
3:MF:103:TRP:HB2	3:MF:186:ASN:OD1	2.15	0.46
3:NB:407:TRP:HZ2	2:NC:256:GLN:OE1	1.98	0.46
3:ND:314:THR:O	3:ND:380:ASN:N	2.40	0.46
2:AA:107:HIS:HD1	2:AA:151:SER:HG	1.50	0.46
2:AA:317:LEU:HB3	2:AA:319:TYR:CE2	2.51	0.46
2:AC:70:LEU:HD12	2:AC:99:ALA:HB2	1.98	0.46
2:AE:283:HIS:HB3	3:NB:88:ARG:NH1	2.30	0.46
3:BB:257:VAL:HG13	3:BB:258:ASN:HD22	1.81	0.46
2:BC:319:TYR:N	2:BC:354:GLY:O	2.48	0.46
3:BD:21:TRP:CE3	3:BD:24:ILE:HD11	2.50	0.46
3:BD:154:ILE:HG12	3:BD:166:MET:HE2	1.96	0.46
3:BD:394:GLN:NE2	2:BE:348:PRO:HG2	2.28	0.46
3:CB:70:LEU:HD12	3:CB:99:ALA:HB2	1.96	0.46
3:CB:101:ASN:HD22	2:CC:254:GLU:HG3	1.81	0.46
3:CF:70:LEU:HD12	3:CF:99:ALA:HB2	1.96	0.46
2:DA:70:LEU:HD12	2:DA:99:ALA:HB2	1.98	0.46
3:DB:21:TRP:CE3	3:DB:24:ILE:HD11	2.50	0.46
3:DD:154:ILE:HG12	3:DD:166:MET:HE2	1.97	0.46
3:EB:103:TRP:HB2	3:EB:186:ASN:OD1	2.15	0.46
3:ED:315:VAL:HG13	3:ED:351:VAL:HG23	1.97	0.46
3:FB:257:VAL:HG13	3:FB:258:ASN:HD22	1.81	0.46
2:FE:101:ASN:H	3:FF:254:LYS:NZ	2.14	0.46
3:FF:257:VAL:HG13	3:FF:258:ASN:HD22	1.81	0.46
2:GA:269:LEU:N	2:GA:379:SER:O	2.47	0.46
2:GC:269:LEU:N	2:GC:379:SER:O	2.47	0.46
3:GD:103:TRP:HB2	3:GD:186:ASN:OD1	2.15	0.46
3:GD:238:VAL:HG12	3:GD:378:ILE:HD11	1.98	0.46
2:GE:269:LEU:N	2:GE:379:SER:O	2.47	0.46
3:GF:257:VAL:HG13	3:GF:258:ASN:HD22	1.81	0.46
3:GF:315:VAL:HG13	3:GF:351:VAL:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:103:TRP:HB2	3:HB:186:ASN:OD1	2.15	0.46
3:HB:238:VAL:HG12	3:HB:378:ILE:HD11	1.98	0.46
3:HB:401:ARG:HD2	2:HC:346:TRP:CZ2	2.51	0.46
3:HD:238:VAL:HG12	3:HD:378:ILE:HD11	1.98	0.46
3:HF:103:TRP:HB2	3:HF:186:ASN:OD1	2.15	0.46
3:HF:257:VAL:HG13	3:HF:258:ASN:HD22	1.81	0.46
2:IA:269:LEU:N	2:IA:379:SER:O	2.47	0.46
3:IB:89:PRO:HA	3:IB:92:PHE:CD2	2.50	0.46
2:IC:172:TYR:OH	2:IC:387:ALA:O	2.28	0.46
3:ID:103:TRP:HB2	3:ID:186:ASN:OD1	2.15	0.46
3:ID:257:VAL:HG13	3:ID:258:ASN:HD22	1.81	0.46
2:JA:269:LEU:N	2:JA:379:SER:O	2.47	0.46
3:JB:238:VAL:HG12	3:JB:378:ILE:HD11	1.98	0.46
2:JC:269:LEU:N	2:JC:379:SER:O	2.47	0.46
3:JD:143:GLY:HA3	6:JD:501:GDP:O3A	2.16	0.46
2:JE:269:LEU:N	2:JE:379:SER:O	2.47	0.46
3:KB:269:MET:HE1	3:KB:303:ALA:HB3	1.98	0.46
2:KC:317:LEU:HB3	2:KC:319:TYR:CE2	2.51	0.46
2:KC:319:TYR:N	2:KC:354:GLY:O	2.48	0.46
3:KD:238:VAL:HG12	3:KD:378:ILE:HD11	1.98	0.46
2:KE:317:LEU:HB3	2:KE:319:TYR:CE2	2.51	0.46
2:KE:319:TYR:N	2:KE:354:GLY:O	2.48	0.46
3:LB:315:VAL:HG13	3:LB:351:VAL:HG23	1.97	0.46
2:LC:294:ALA:O	2:LC:300:ASN:ND2	2.40	0.46
2:LE:88:HIS:CD2	2:ME:284:GLU:OE2	2.69	0.46
2:LE:172:TYR:OH	2:LE:387:ALA:O	2.28	0.46
2:LE:294:ALA:O	2:LE:300:ASN:ND2	2.40	0.46
2:MA:88:HIS:HB3	2:MA:91:GLN:CD	2.40	0.46
2:MA:317:LEU:HB3	2:MA:319:TYR:CE2	2.51	0.46
2:MC:317:LEU:HB3	2:MC:319:TYR:CE2	2.51	0.46
2:NA:317:LEU:HB3	2:NA:319:TYR:CE2	2.51	0.46
2:NC:88:HIS:HB3	2:NC:91:GLN:CD	2.40	0.46
2:NC:317:LEU:HB3	2:NC:319:TYR:CE2	2.51	0.46
2:NE:221:ARG:NH2	3:NF:327:GLU:OE2	2.46	0.46
2:NE:394:LYS:HD2	3:NF:348:PRO:HG3	1.97	0.46
3:NF:269:MET:HE1	3:NF:303:ALA:HB3	1.98	0.46
2:AA:70:LEU:HD12	2:AA:99:ALA:HB2	1.97	0.46
3:AB:257:VAL:HG13	3:AB:258:ASN:HD22	1.81	0.46
2:AC:317:LEU:HB3	2:AC:319:TYR:CE2	2.51	0.46
2:AC:401:LYS:HD3	3:AD:346:TRP:HE1	1.80	0.46
3:BB:403:ALA:HB2	2:BC:346:TRP:CZ3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:100:ALA:O	3:BD:257:VAL:HG11	2.15	0.46
3:BD:103:TRP:HB2	3:BD:186:ASN:OD1	2.15	0.46
2:BE:70:LEU:HD12	2:BE:99:ALA:HB2	1.97	0.46
2:CA:21:TRP:HZ3	2:CA:52:PHE:CD1	2.31	0.46
3:DB:143:GLY:HA3	6:DB:501:GDP:O3A	2.16	0.46
3:DD:103:TRP:HB2	3:DD:186:ASN:OD1	2.15	0.46
3:DF:24:ILE:HA	3:DF:27:GLU:HG2	1.98	0.46
3:EF:269:MET:HE1	3:EF:303:ALA:HB3	1.98	0.46
2:FA:172:TYR:OH	2:FA:387:ALA:O	2.28	0.46
3:FB:238:VAL:HG12	3:FB:378:ILE:HD11	1.98	0.46
3:FD:269:MET:HE1	3:FD:303:ALA:HB3	1.98	0.46
3:GB:238:VAL:HG12	3:GB:378:ILE:HD11	1.98	0.46
3:GB:257:VAL:HG13	3:GB:258:ASN:HD22	1.81	0.46
3:GF:24:ILE:HA	3:GF:27:GLU:HG2	1.98	0.46
3:HB:327:GLU:HA	3:HB:330:GLU:HG2	1.98	0.46
2:HC:329:ASN:HA	2:HC:332:ILE:HG12	1.98	0.46
3:HD:89:PRO:HA	3:HD:92:PHE:CD2	2.50	0.46
3:HF:24:ILE:HA	3:HF:27:GLU:HG2	1.98	0.46
3:HF:89:PRO:HA	3:HF:92:PHE:CD2	2.50	0.46
3:HF:327:GLU:HA	3:HF:330:GLU:HG2	1.98	0.46
3:IF:89:PRO:HA	3:IF:92:PHE:CD2	2.50	0.46
3:IF:143:GLY:HA3	6:IF:501:GDP:O3A	2.16	0.46
3:IF:257:VAL:HG13	3:IF:258:ASN:HD22	1.81	0.46
2:JA:317:LEU:HB3	2:JA:319:TYR:CE2	2.51	0.46
3:JB:89:PRO:HA	3:JB:92:PHE:CD2	2.50	0.46
3:JB:143:GLY:HA3	6:JB:501:GDP:O3A	2.16	0.46
2:JE:317:LEU:HB3	2:JE:319:TYR:CE2	2.51	0.46
2:JE:407:TRP:CZ2	3:JF:260:VAL:HG13	2.49	0.46
2:KA:317:LEU:HB3	2:KA:319:TYR:CE2	2.51	0.46
2:KC:204:VAL:HG13	2:KC:302:MET:CE	2.46	0.46
2:LA:172:TYR:OH	2:LA:387:ALA:O	2.28	0.46
2:LA:317:LEU:HB3	2:LA:319:TYR:CE2	2.51	0.46
2:LC:122:ILE:HD13	2:LC:157:LEU:HD21	1.98	0.46
2:LE:122:ILE:HD13	2:LE:157:LEU:HD21	1.98	0.46
2:MA:89:PRO:HD2	2:NA:280:LYS:HZ3	1.81	0.46
2:MA:269:LEU:N	2:MA:379:SER:O	2.47	0.46
2:MC:122:ILE:HD13	2:MC:157:LEU:HD21	1.98	0.46
3:MD:289:PRO:O	3:MD:292:THR:OG1	2.23	0.46
2:ME:269:LEU:N	2:ME:379:SER:O	2.47	0.46
3:MF:154:ILE:HG12	3:MF:166:MET:HE2	1.97	0.46
2:NA:21:TRP:HZ3	2:NA:52:PHE:CD1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NA:122:ILE:HD13	2:NA:157:LEU:HD21	1.98	0.46
2:NC:21:TRP:HZ3	2:NC:52:PHE:CD1	2.31	0.46
3:ND:315:VAL:HG13	3:ND:351:VAL:HG23	1.97	0.46
2:NE:122:ILE:HD13	2:NE:157:LEU:HD21	1.98	0.46
3:NF:315:VAL:HG13	3:NF:351:VAL:HG23	1.97	0.46
1:1A:38:ARG:HA	1:1A:102:CYS:SG	2.56	0.46
2:AE:70:LEU:HD12	2:AE:99:ALA:HB2	1.98	0.46
2:AE:317:LEU:HB3	2:AE:319:TYR:CE2	2.51	0.46
3:AF:257:VAL:HG13	3:AF:258:ASN:HD22	1.81	0.46
3:BB:143:GLY:HA3	6:BB:501:GDP:O3A	2.16	0.46
3:BB:154:ILE:HG12	3:BB:166:MET:HE2	1.97	0.46
2:BC:21:TRP:HZ3	2:BC:52:PHE:CD1	2.31	0.46
2:BE:122:ILE:HD13	2:BE:157:LEU:HD21	1.98	0.46
3:BF:154:ILE:HG12	3:BF:166:MET:HE2	1.97	0.46
2:CA:204:VAL:HG13	2:CA:302:MET:CE	2.46	0.46
3:CB:154:ILE:HG12	3:CB:166:MET:HE2	1.97	0.46
2:CC:172:TYR:OH	2:CC:387:ALA:O	2.28	0.46
3:CD:24:ILE:HA	3:CD:27:GLU:HG2	1.98	0.46
3:CD:154:ILE:HG12	3:CD:166:MET:HE2	1.97	0.46
3:CD:257:VAL:HG13	3:CD:258:ASN:HD22	1.81	0.46
3:CF:143:GLY:HA3	6:CF:501:GDP:O3A	2.16	0.46
3:CF:154:ILE:HG12	3:CF:166:MET:HE2	1.97	0.46
3:CF:257:VAL:HG13	3:CF:258:ASN:HD22	1.81	0.46
3:DB:103:TRP:HB2	3:DB:186:ASN:OD1	2.15	0.46
3:DB:314:THR:O	3:DB:380:ASN:N	2.40	0.46
2:DC:224:TYR:CE1	3:DD:325:MET:HG3	2.51	0.46
3:DD:101:ASN:ND2	2:DE:254:GLU:OE2	2.49	0.46
3:DD:143:GLY:HA3	6:DD:501:GDP:O3A	2.16	0.46
3:DF:143:GLY:HA3	6:DF:501:GDP:O3A	2.16	0.46
3:EB:257:VAL:HG13	3:EB:258:ASN:HD22	1.81	0.46
2:EC:222:PRO:O	3:ED:326:LYS:NZ	2.48	0.46
2:EC:294:ALA:O	2:EC:300:ASN:ND2	2.40	0.46
3:ED:143:GLY:HA3	6:ED:501:GDP:O3A	2.16	0.46
3:EF:143:GLY:HA3	6:EF:501:GDP:O3A	2.16	0.46
2:FA:70:LEU:HD12	2:FA:99:ALA:HB2	1.98	0.46
2:FA:204:VAL:HG13	2:FA:302:MET:CE	2.46	0.46
3:FB:24:ILE:HA	3:FB:27:GLU:HG2	1.98	0.46
3:FB:143:GLY:HA3	6:FB:501:GDP:O3A	2.16	0.46
3:FB:269:MET:HE1	3:FB:303:ALA:HB3	1.98	0.46
3:FD:24:ILE:HA	3:FD:27:GLU:HG2	1.98	0.46
3:FD:143:GLY:HA3	6:FD:501:GDP:O3A	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:238:VAL:HG12	3:FD:378:ILE:HD11	1.98	0.46
3:FF:24:ILE:HA	3:FF:27:GLU:HG2	1.98	0.46
3:FF:238:VAL:HG12	3:FF:378:ILE:HD11	1.98	0.46
2:GA:204:VAL:HG13	2:GA:302:MET:CE	2.46	0.46
3:GB:327:GLU:HA	3:GB:330:GLU:HG2	1.98	0.46
3:GD:24:ILE:HA	3:GD:27:GLU:HG2	1.98	0.46
3:GD:315:VAL:HG13	3:GD:351:VAL:HG23	1.97	0.46
3:GD:327:GLU:HA	3:GD:330:GLU:HG2	1.98	0.46
2:GE:204:VAL:HG13	2:GE:302:MET:CE	2.46	0.46
3:GF:143:GLY:HA3	6:GF:501:GDP:O3A	2.16	0.46
2:HA:329:ASN:HA	2:HA:332:ILE:HG12	1.98	0.46
3:HB:24:ILE:HA	3:HB:27:GLU:HG2	1.98	0.46
3:HD:103:TRP:HB2	3:HD:186:ASN:OD1	2.15	0.46
3:HD:327:GLU:HA	3:HD:330:GLU:HG2	1.98	0.46
2:HE:329:ASN:HA	2:HE:332:ILE:HG12	1.98	0.46
3:HF:143:GLY:HA3	6:HF:501:GDP:O3A	2.16	0.46
3:ID:143:GLY:HA3	6:ID:501:GDP:O3A	2.16	0.46
2:IE:222:PRO:CD	3:IF:326:LYS:HZ1	2.29	0.46
3:IF:103:TRP:HB2	3:IF:186:ASN:OD1	2.15	0.46
3:IF:327:GLU:HA	3:IF:330:GLU:HG2	1.98	0.46
3:JB:327:GLU:HA	3:JB:330:GLU:HG2	1.98	0.46
2:JC:317:LEU:HB3	2:JC:319:TYR:CE2	2.51	0.46
3:JF:143:GLY:HA3	6:JF:501:GDP:O3A	2.16	0.46
3:KB:143:GLY:HA3	6:KB:501:GDP:O3A	2.16	0.46
3:KD:143:GLY:HA3	6:KD:501:GDP:O3A	2.16	0.46
3:KD:257:VAL:HG13	3:KD:258:ASN:HD22	1.81	0.46
2:LA:122:ILE:HD13	2:LA:157:LEU:HD21	1.98	0.46
2:LC:105:ARG:NH1	3:LD:253:ARG:HD2	2.25	0.46
3:LF:143:GLY:HA3	6:LF:501:GDP:O3A	2.16	0.46
2:MC:269:LEU:N	2:MC:379:SER:O	2.47	0.46
2:ME:317:LEU:HB3	2:ME:319:TYR:CE2	2.51	0.46
3:MF:324:SER:OG	3:MF:325:MET:N	2.45	0.46
2:NA:88:HIS:HB3	2:NA:91:GLN:CD	2.40	0.46
2:NA:319:TYR:N	2:NA:354:GLY:O	2.48	0.46
3:NB:315:VAL:HG13	3:NB:351:VAL:HG23	1.97	0.46
2:NC:122:ILE:HD13	2:NC:157:LEU:HD21	1.98	0.46
2:NE:88:HIS:HB3	2:NE:91:GLN:CD	2.40	0.46
3:NF:143:GLY:N	3:NF:183:GLU:OE1	2.44	0.46
1:1B:38:ARG:HA	1:1B:102:CYS:SG	2.56	0.46
1:1B:61:HIS:CD2	2:AC:310:GLY:O	2.68	0.46
1:1C:38:ARG:HA	1:1C:102:CYS:SG	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:38:ARG:HA	1:1D:102:CYS:SG	2.56	0.46
1:1E:38:ARG:HA	1:1E:102:CYS:SG	2.56	0.46
3:AB:324:SER:OG	3:AB:325:MET:N	2.45	0.46
3:AD:57:THR:O	3:AD:60:LYS:NZ	2.42	0.46
2:AE:21:TRP:HZ3	2:AE:52:PHE:CD1	2.31	0.46
2:AE:394:LYS:CD	3:AF:348:PRO:HG3	2.45	0.46
3:AF:103:TRP:HB2	3:AF:186:ASN:OD1	2.15	0.46
2:BA:317:LEU:HB3	2:BA:319:TYR:CE2	2.51	0.46
4:BA:501:GTP:O3G	3:BB:254:LYS:NZ	2.48	0.46
3:BB:103:TRP:HB2	3:BB:186:ASN:OD1	2.15	0.46
2:BC:70:LEU:HD12	2:BC:99:ALA:HB2	1.98	0.46
2:BC:122:ILE:HD13	2:BC:157:LEU:HD21	1.98	0.46
3:CB:24:ILE:HA	3:CB:27:GLU:HG2	1.98	0.46
3:CB:143:GLY:HA3	6:CB:501:GDP:O3A	2.16	0.46
2:CC:204:VAL:HG13	2:CC:302:MET:CE	2.46	0.46
3:CD:143:GLY:HA3	6:CD:501:GDP:O3A	2.16	0.46
2:CE:21:TRP:HZ3	2:CE:52:PHE:CD1	2.31	0.46
3:CF:24:ILE:HA	3:CF:27:GLU:HG2	1.98	0.46
3:DB:24:ILE:HA	3:DB:27:GLU:HG2	1.98	0.46
3:DD:24:ILE:HA	3:DD:27:GLU:HG2	1.98	0.46
3:EB:154:ILE:HG12	3:EB:166:MET:HE2	1.97	0.46
3:ED:88:ARG:HH22	3:FD:283:TYR:HB3	1.81	0.46
3:ED:257:VAL:HG13	3:ED:258:ASN:HD22	1.81	0.46
3:ED:269:MET:HE1	3:ED:303:ALA:HB3	1.98	0.46
3:EF:24:ILE:HA	3:EF:27:GLU:HG2	1.98	0.46
3:EF:315:VAL:HG13	3:EF:351:VAL:HG23	1.97	0.46
2:FC:70:LEU:HD12	2:FC:99:ALA:HB2	1.98	0.46
2:FC:204:VAL:HG13	2:FC:302:MET:CE	2.46	0.46
2:FC:317:LEU:HB3	2:FC:319:TYR:CE2	2.51	0.46
3:FF:143:GLY:HA3	6:FF:501:GDP:O3A	2.16	0.46
3:GB:143:GLY:HA3	6:GB:501:GDP:O3A	2.16	0.46
2:GC:70:LEU:HD12	2:GC:99:ALA:HB2	1.98	0.46
2:GC:204:VAL:HG13	2:GC:302:MET:CE	2.46	0.46
3:GD:143:GLY:HA3	6:GD:501:GDP:O3A	2.16	0.46
2:GE:70:LEU:HD12	2:GE:99:ALA:HB2	1.98	0.46
2:GE:222:PRO:O	3:GF:326:LYS:NZ	2.49	0.46
3:GF:103:TRP:HB2	3:GF:186:ASN:OD1	2.15	0.46
3:GF:327:GLU:HA	3:GF:330:GLU:HG2	1.98	0.46
2:HA:21:TRP:HZ3	2:HA:52:PHE:CD1	2.31	0.46
3:HB:89:PRO:HA	3:HB:92:PHE:CD2	2.50	0.46
3:HD:143:GLY:HA3	6:HD:501:GDP:O3A	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:238:VAL:HG12	3:HF:378:ILE:HD11	1.98	0.46
3:IB:24:ILE:HA	3:IB:27:GLU:HG2	1.98	0.46
3:IB:143:GLY:HA3	6:IB:501:GDP:O3A	2.16	0.46
2:IC:317:LEU:HB3	2:IC:319:TYR:CE2	2.51	0.46
3:ID:143:GLY:N	3:ID:183:GLU:OE1	2.45	0.46
3:JD:238:VAL:HG12	3:JD:378:ILE:HD11	1.98	0.46
3:JD:315:VAL:HG13	3:JD:351:VAL:HG23	1.97	0.46
3:JD:327:GLU:HA	3:JD:330:GLU:HG2	1.98	0.46
3:JD:403:ALA:HB2	2:JE:346:TRP:CZ2	2.50	0.46
3:JF:315:VAL:HG13	3:JF:351:VAL:HG23	1.97	0.46
3:JF:327:GLU:HA	3:JF:330:GLU:HG2	1.98	0.46
3:KB:257:VAL:HG13	3:KB:258:ASN:HD22	1.81	0.46
2:KE:70:LEU:HD12	2:KE:99:ALA:HB2	1.98	0.46
2:KE:204:VAL:HG13	2:KE:302:MET:CE	2.46	0.46
3:KF:143:GLY:HA3	6:KF:501:GDP:O3A	2.16	0.46
3:KF:257:VAL:HG13	3:KF:258:ASN:HD22	1.81	0.46
3:KF:327:GLU:HA	3:KF:330:GLU:HG2	1.98	0.46
3:LB:143:GLY:HA3	6:LB:501:GDP:O3A	2.16	0.46
2:LC:172:TYR:OH	2:LC:387:ALA:O	2.28	0.46
3:LD:69:ASP:OD2	3:LD:74:THR:OG1	2.18	0.46
3:LD:143:GLY:HA3	6:LD:501:GDP:O3A	2.16	0.46
2:LE:224:TYR:CD1	3:LF:325:MET:HE2	2.51	0.46
3:MD:103:TRP:HB2	3:MD:186:ASN:OD1	2.15	0.46
3:MF:143:GLY:HA3	6:MF:501:GDP:O3A	2.16	0.46
2:NE:317:LEU:HB3	2:NE:319:TYR:CE2	2.51	0.46
3:AB:57:THR:O	3:AB:60:LYS:NZ	2.42	0.45
3:AD:103:TRP:HB2	3:AD:186:ASN:OD1	2.15	0.45
3:AD:257:VAL:HG13	3:AD:258:ASN:HD22	1.81	0.45
2:BA:21:TRP:HZ3	2:BA:52:PHE:CD1	2.31	0.45
2:BA:70:LEU:HD12	2:BA:99:ALA:HB2	1.98	0.45
2:BA:122:ILE:HD13	2:BA:157:LEU:HD21	1.98	0.45
2:BC:204:VAL:HG13	2:BC:302:MET:CE	2.46	0.45
3:BD:143:GLY:HA3	6:BD:501:GDP:O3A	2.16	0.45
3:BF:24:ILE:HA	3:BF:27:GLU:HG2	1.98	0.45
3:CB:49:ILE:HG13	3:CB:50:ASN:N	2.31	0.45
2:CC:122:ILE:HD13	2:CC:157:LEU:HD21	1.98	0.45
2:CE:204:VAL:HG13	2:CE:302:MET:CE	2.46	0.45
2:DA:204:VAL:HG13	2:DA:302:MET:CE	2.46	0.45
2:DE:145:THR:OG1	4:DE:501:GTP:O2G	2.27	0.45
2:DE:204:VAL:HG13	2:DE:302:MET:CE	2.46	0.45
3:DF:257:VAL:HG13	3:DF:258:ASN:HD22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:143:GLY:HA3	6:EB:501:GDP:O3A	2.16	0.45
3:ED:24:ILE:HA	3:ED:27:GLU:HG2	1.98	0.45
3:ED:69:ASP:OD2	3:ED:74:THR:OG1	2.18	0.45
3:ED:154:ILE:HG12	3:ED:166:MET:HE2	1.97	0.45
2:EE:317:LEU:HB3	2:EE:319:TYR:CE2	2.51	0.45
2:FE:70:LEU:HD12	2:FE:99:ALA:HB2	1.98	0.45
2:FE:204:VAL:HG13	2:FE:302:MET:CE	2.46	0.45
2:FE:317:LEU:HB3	2:FE:319:TYR:CE2	2.51	0.45
3:FF:269:MET:HE1	3:FF:303:ALA:HB3	1.98	0.45
3:FF:327:GLU:HA	3:FF:330:GLU:HG2	1.98	0.45
2:GA:70:LEU:HD12	2:GA:99:ALA:HB2	1.98	0.45
2:GA:319:TYR:N	2:GA:354:GLY:O	2.48	0.45
3:GB:24:ILE:HA	3:GB:27:GLU:HG2	1.98	0.45
3:GB:158:ARG:NH2	3:GB:164:ARG:O	2.38	0.45
2:GC:319:TYR:N	2:GC:354:GLY:O	2.48	0.45
2:GE:317:LEU:HB3	2:GE:319:TYR:CE2	2.51	0.45
2:GE:319:TYR:N	2:GE:354:GLY:O	2.48	0.45
2:GE:401:LYS:CE	3:GF:346:TRP:NE1	2.78	0.45
2:GE:406:HIS:HE1	3:GF:261:PRO:O	2.00	0.45
2:HA:319:TYR:N	2:HA:354:GLY:O	2.48	0.45
3:HB:49:ILE:HG13	3:HB:50:ASN:N	2.31	0.45
3:HB:143:GLY:HA3	6:HB:501:GDP:O3A	2.16	0.45
3:HD:24:ILE:HA	3:HD:27:GLU:HG2	1.98	0.45
3:HD:49:ILE:HG13	3:HD:50:ASN:N	2.31	0.45
3:HF:49:ILE:HG13	3:HF:50:ASN:N	2.32	0.45
2:IA:317:LEU:HB3	2:IA:319:TYR:CE2	2.51	0.45
3:ID:24:ILE:HA	3:ID:27:GLU:HG2	1.98	0.45
2:IE:317:LEU:HB3	2:IE:319:TYR:CE2	2.51	0.45
3:IF:24:ILE:HA	3:IF:27:GLU:HG2	1.98	0.45
2:KA:70:LEU:HD12	2:KA:99:ALA:HB2	1.98	0.45
3:KD:269:MET:HE1	3:KD:303:ALA:HB3	1.98	0.45
2:KE:224:TYR:HD1	3:KF:325:MET:HE2	1.81	0.45
3:KF:269:MET:HE1	3:KF:303:ALA:HB3	1.98	0.45
3:LD:101:ASN:ND2	2:LE:254:GLU:OE2	2.49	0.45
3:MB:103:TRP:HB2	3:MB:186:ASN:OD1	2.15	0.45
3:NB:89:PRO:HA	3:NB:92:PHE:CD2	2.50	0.45
3:NB:143:GLY:HA3	6:NB:501:GDP:O3A	2.16	0.45
2:NC:319:TYR:N	2:NC:354:GLY:O	2.48	0.45
1:1C:61:HIS:HA	2:AE:308:ARG:HH12	1.79	0.45
2:AA:21:TRP:HZ3	2:AA:52:PHE:CD1	2.31	0.45
3:AB:103:TRP:HB2	3:AB:186:ASN:OD1	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:21:TRP:HZ3	2:AC:52:PHE:CD1	2.31	0.45
3:AF:49:ILE:HG13	3:AF:50:ASN:N	2.31	0.45
2:BC:317:LEU:HB3	2:BC:319:TYR:CE2	2.51	0.45
2:BE:21:TRP:HZ3	2:BE:52:PHE:CD1	2.31	0.45
2:BE:317:LEU:HB3	2:BE:319:TYR:CE2	2.51	0.45
2:BE:329:ASN:HA	2:BE:332:ILE:HG12	1.98	0.45
3:BF:49:ILE:HG13	3:BF:50:ASN:N	2.31	0.45
3:BF:143:GLY:HA3	6:BF:501:GDP:O3A	2.16	0.45
2:CA:122:ILE:HD13	2:CA:157:LEU:HD21	1.98	0.45
2:CA:407:TRP:CZ3	3:CB:257:VAL:O	2.69	0.45
3:CB:257:VAL:HG13	3:CB:258:ASN:HD22	1.81	0.45
2:CC:21:TRP:HZ3	2:CC:52:PHE:CD1	2.31	0.45
2:CC:88:HIS:HB3	2:CC:91:GLN:CD	2.40	0.45
3:CD:49:ILE:HG13	3:CD:50:ASN:N	2.31	0.45
2:CE:88:HIS:HB3	2:CE:91:GLN:CD	2.40	0.45
2:CE:122:ILE:HD13	2:CE:157:LEU:HD21	1.98	0.45
3:CF:49:ILE:HG13	3:CF:50:ASN:N	2.31	0.45
2:DA:317:LEU:HB3	2:DA:319:TYR:CE2	2.51	0.45
2:DC:204:VAL:HG13	2:DC:302:MET:CE	2.46	0.45
2:EA:317:LEU:HB3	2:EA:319:TYR:CE2	2.51	0.45
3:EB:269:MET:HE1	3:EB:303:ALA:HB3	1.98	0.45
2:EC:319:TYR:N	2:EC:354:GLY:O	2.48	0.45
3:ED:57:THR:O	3:ED:60:LYS:NZ	2.42	0.45
3:EF:257:VAL:HG13	3:EF:258:ASN:HD22	1.81	0.45
2:FC:101:ASN:H	3:FD:254:LYS:NZ	2.14	0.45
2:FC:105:ARG:NH1	3:FD:253:ARG:HD2	2.29	0.45
2:FE:319:TYR:N	2:FE:354:GLY:O	2.48	0.45
3:FF:49:ILE:HG13	3:FF:50:ASN:N	2.31	0.45
3:GB:315:VAL:HG13	3:GB:351:VAL:HG23	1.97	0.45
2:HC:21:TRP:HZ3	2:HC:52:PHE:CD1	2.31	0.45
2:HC:319:TYR:N	2:HC:354:GLY:O	2.48	0.45
2:HE:204:VAL:HG13	2:HE:302:MET:CE	2.46	0.45
2:HE:319:TYR:N	2:HE:354:GLY:O	2.48	0.45
3:IB:327:GLU:HA	3:IB:330:GLU:HG2	1.98	0.45
2:IC:329:ASN:HA	2:IC:332:ILE:HG12	1.98	0.45
3:ID:100:GLY:HA2	2:IE:254:GLU:HB2	1.99	0.45
3:ID:327:GLU:HA	3:ID:330:GLU:HG2	1.98	0.45
2:IE:329:ASN:HA	2:IE:332:ILE:HG12	1.98	0.45
2:JA:221:ARG:HA	3:JB:326:LYS:HZ3	1.82	0.45
3:JB:257:VAL:HG13	3:JB:258:ASN:HD22	1.81	0.45
3:JB:315:VAL:HG13	3:JB:351:VAL:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:257:VAL:HG13	3:JD:258:ASN:HD22	1.81	0.45
3:JF:103:TRP:HB2	3:JF:186:ASN:OD1	2.15	0.45
3:JF:238:VAL:HG12	3:JF:378:ILE:HD11	1.98	0.45
2:KA:221:ARG:HE	3:KB:327:GLU:CD	2.25	0.45
2:KC:70:LEU:HD12	2:KC:99:ALA:HB2	1.98	0.45
3:KD:100:GLY:HA2	2:KE:254:GLU:HB2	1.98	0.45
3:KD:327:GLU:HA	3:KD:330:GLU:HG2	1.98	0.45
2:LE:172:TYR:N	2:LE:204:VAL:O	2.27	0.45
2:MC:107:HIS:ND1	2:MC:151:SER:OG	2.43	0.45
3:MD:238:VAL:HG12	3:MD:378:ILE:HD11	1.98	0.45
2:NA:407:TRP:CH2	3:NB:256:ALA:O	2.69	0.45
2:NE:21:TRP:HZ3	2:NE:52:PHE:CD1	2.31	0.45
3:AB:83:PHE:O	3:AB:86:ILE:HG22	2.17	0.45
3:AD:83:PHE:O	3:AD:86:ILE:HG22	2.17	0.45
3:AD:143:GLY:HA3	6:AD:501:GDP:O3A	2.16	0.45
2:AE:284:GLU:OE1	3:NB:88:ARG:NH1	2.49	0.45
2:BA:204:VAL:HG13	2:BA:302:MET:CE	2.46	0.45
3:BD:24:ILE:HA	3:BD:27:GLU:HG2	1.98	0.45
3:BD:49:ILE:HG13	3:BD:50:ASN:N	2.31	0.45
2:BE:204:VAL:HG13	2:BE:302:MET:CE	2.46	0.45
2:CA:88:HIS:HB3	2:CA:91:GLN:CD	2.40	0.45
2:CE:172:TYR:OH	2:CE:387:ALA:O	2.28	0.45
3:CF:21:TRP:CE3	3:CF:24:ILE:HD11	2.50	0.45
3:DB:238:VAL:HG12	3:DB:378:ILE:HD11	1.98	0.45
3:DD:222:PRO:HD2	2:DE:326:LYS:HZ3	1.80	0.45
3:DD:238:VAL:HG12	3:DD:378:ILE:HD11	1.98	0.45
3:DD:314:THR:O	3:DD:380:ASN:N	2.40	0.45
2:DE:122:ILE:HD13	2:DE:157:LEU:HD21	1.98	0.45
2:DE:208:ALA:O	2:DE:212:ILE:HG12	2.17	0.45
3:EB:24:ILE:HA	3:EB:27:GLU:HG2	1.98	0.45
3:EB:83:PHE:O	3:EB:86:ILE:HG22	2.17	0.45
3:ED:83:PHE:O	3:ED:86:ILE:HG22	2.17	0.45
3:EF:83:PHE:O	3:EF:86:ILE:HG22	2.17	0.45
3:EF:154:ILE:HG12	3:EF:166:MET:HE2	1.97	0.45
3:EF:238:VAL:HG12	3:EF:378:ILE:HD11	1.98	0.45
2:FA:317:LEU:HB3	2:FA:319:TYR:CE2	2.51	0.45
2:FA:319:TYR:N	2:FA:354:GLY:O	2.48	0.45
3:FB:83:PHE:O	3:FB:86:ILE:HG22	2.17	0.45
3:FB:314:THR:O	3:FB:380:ASN:N	2.40	0.45
3:FB:327:GLU:HA	3:FB:330:GLU:HG2	1.98	0.45
2:FC:319:TYR:N	2:FC:354:GLY:O	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:83:PHE:O	3:FD:86:ILE:HG22	2.17	0.45
3:FF:83:PHE:O	3:FF:86:ILE:HG22	2.17	0.45
2:GA:317:LEU:HB3	2:GA:319:TYR:CE2	2.51	0.45
2:GC:317:LEU:HB3	2:GC:319:TYR:CE2	2.51	0.45
2:GC:422:ARG:CB	2:GC:425:MET:HE2	2.38	0.45
4:GC:501:GTP:O3G	3:GD:254:LYS:NZ	2.49	0.45
2:GE:401:LYS:HE3	3:GF:346:TRP:HE1	1.81	0.45
2:GE:422:ARG:CB	2:GE:425:MET:HE2	2.38	0.45
2:HE:21:TRP:HZ3	2:HE:52:PHE:CD1	2.31	0.45
2:IC:172:TYR:N	2:IC:204:VAL:O	2.27	0.45
3:IF:143:GLY:N	3:IF:183:GLU:OE1	2.45	0.45
2:JC:329:ASN:HA	2:JC:332:ILE:HG12	1.98	0.45
3:JF:257:VAL:HG13	3:JF:258:ASN:HD22	1.81	0.45
2:KC:329:ASN:HA	2:KC:332:ILE:HG12	1.98	0.45
3:KD:24:ILE:HA	3:KD:27:GLU:HG2	1.98	0.45
2:KE:329:ASN:HA	2:KE:332:ILE:HG12	1.98	0.45
2:KE:397:LEU:HD12	3:KF:346:TRP:CZ3	2.51	0.45
3:KF:24:ILE:HA	3:KF:27:GLU:HG2	1.98	0.45
3:KF:158:ARG:NH2	3:KF:164:ARG:O	2.38	0.45
2:LE:208:ALA:O	2:LE:212:ILE:HG12	2.17	0.45
3:MD:143:GLY:HA3	6:MD:501:GDP:O3A	2.16	0.45
3:MF:24:ILE:HA	3:MF:27:GLU:HG2	1.98	0.45
3:MF:238:VAL:HG12	3:MF:378:ILE:HD11	1.98	0.45
2:NA:204:VAL:HG13	2:NA:302:MET:CE	2.46	0.45
3:ND:89:PRO:HA	3:ND:92:PHE:CD2	2.50	0.45
3:ND:143:GLY:HA3	6:ND:501:GDP:O3A	2.16	0.45
2:NE:222:PRO:HG2	3:NF:326:LYS:HZ1	1.81	0.45
3:NF:89:PRO:HA	3:NF:92:PHE:CD2	2.50	0.45
3:NF:103:TRP:HB2	3:NF:186:ASN:OD1	2.15	0.45
3:NF:314:THR:O	3:NF:380:ASN:N	2.40	0.45
1:1A:61:HIS:HD2	2:AA:311:LYS:HG2	1.81	0.45
3:AB:49:ILE:HG13	3:AB:50:ASN:N	2.31	0.45
3:AD:49:ILE:HG13	3:AD:50:ASN:N	2.31	0.45
3:AF:83:PHE:O	3:AF:86:ILE:HG22	2.17	0.45
3:AF:143:GLY:HA3	6:AF:501:GDP:O3A	2.16	0.45
3:BB:24:ILE:HA	3:BB:27:GLU:HG2	1.98	0.45
3:BB:49:ILE:HG13	3:BB:50:ASN:N	2.31	0.45
2:BC:329:ASN:HA	2:BC:332:ILE:HG12	1.98	0.45
2:CE:394:LYS:HZ2	3:CF:348:PRO:HG3	1.81	0.45
3:CF:269:MET:HE1	3:CF:303:ALA:HB3	1.98	0.45
2:DA:21:TRP:HZ3	2:DA:52:PHE:CD1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:208:ALA:O	2:DA:212:ILE:HG12	2.17	0.45
2:DC:208:ALA:O	2:DC:212:ILE:HG12	2.17	0.45
3:DD:49:ILE:HG13	3:DD:50:ASN:N	2.31	0.45
3:DF:238:VAL:HG12	3:DF:378:ILE:HD11	1.98	0.45
3:DF:314:THR:O	3:DF:380:ASN:N	2.40	0.45
2:EC:317:LEU:HB3	2:EC:319:TYR:CE2	2.51	0.45
3:FD:49:ILE:HG13	3:FD:50:ASN:N	2.31	0.45
3:FD:327:GLU:HA	3:FD:330:GLU:HG2	1.98	0.45
3:GF:259:MET:HG3	3:GF:268:PHE:HE2	1.82	0.45
2:HA:204:VAL:HG13	2:HA:302:MET:CE	2.46	0.45
2:HC:204:VAL:HG13	2:HC:302:MET:CE	2.46	0.45
2:HE:280:LYS:HE3	2:HE:280:LYS:CA	2.42	0.45
2:IA:329:ASN:HA	2:IA:332:ILE:HG12	1.98	0.45
3:IB:143:GLY:N	3:IB:183:GLU:OE1	2.44	0.45
2:JA:329:ASN:HA	2:JA:332:ILE:HG12	1.98	0.45
2:JE:122:ILE:HD13	2:JE:157:LEU:HD21	1.98	0.45
2:JE:329:ASN:HA	2:JE:332:ILE:HG12	1.98	0.45
3:JF:24:ILE:HA	3:JF:27:GLU:HG2	1.98	0.45
3:KB:327:GLU:HA	3:KB:330:GLU:HG2	1.98	0.45
3:KD:103:TRP:HB2	3:KD:186:ASN:OD1	2.15	0.45
3:KF:103:TRP:HB2	3:KF:186:ASN:OD1	2.15	0.45
2:LA:208:ALA:O	2:LA:212:ILE:HG12	2.17	0.45
2:LC:208:ALA:O	2:LC:212:ILE:HG12	2.17	0.45
3:LD:257:VAL:HG13	3:LD:258:ASN:HD22	1.81	0.45
2:LE:221:ARG:HE	3:LF:324:SER:HB3	1.82	0.45
3:LF:103:TRP:HB2	3:LF:186:ASN:OD1	2.15	0.45
3:LF:257:VAL:HG13	3:LF:258:ASN:HD22	1.81	0.45
2:MA:208:ALA:O	2:MA:212:ILE:HG12	2.17	0.45
3:MB:143:GLY:HA3	6:MB:501:GDP:O3A	2.16	0.45
3:NB:103:TRP:HB2	3:NB:186:ASN:OD1	2.15	0.45
3:ND:103:TRP:HB2	3:ND:186:ASN:OD1	2.15	0.45
3:ND:143:GLY:N	3:ND:183:GLU:OE1	2.45	0.45
2:NE:70:LEU:HD12	2:NE:99:ALA:HB2	1.98	0.45
2:NE:329:ASN:HA	2:NE:332:ILE:HG12	1.98	0.45
3:NF:143:GLY:HA3	6:NF:501:GDP:O3A	2.16	0.45
3:AB:143:GLY:HA3	6:AB:501:GDP:O3A	2.16	0.45
3:AB:238:VAL:HG12	3:AB:378:ILE:HD11	1.98	0.45
3:AF:24:ILE:HA	3:AF:27:GLU:HG2	1.98	0.45
2:BA:101:ASN:N	3:BB:254:LYS:NZ	2.65	0.45
2:BA:329:ASN:HA	2:BA:332:ILE:HG12	1.98	0.45
3:BD:259:MET:HG3	3:BD:268:PHE:HE2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:49:ILE:HG13	3:DB:50:ASN:N	2.31	0.45
3:DB:257:VAL:HG13	3:DB:258:ASN:HD22	1.81	0.45
2:DC:21:TRP:HZ3	2:DC:52:PHE:CD1	2.31	0.45
2:DC:122:ILE:HD13	2:DC:157:LEU:HD21	1.98	0.45
2:DC:317:LEU:HB3	2:DC:319:TYR:CE2	2.51	0.45
3:DD:257:VAL:HG13	3:DD:258:ASN:HD22	1.81	0.45
3:DD:259:MET:HG3	3:DD:268:PHE:HE2	1.82	0.45
3:DD:288:VAL:HA	3:DD:291:LEU:HD12	1.99	0.45
2:DE:317:LEU:HB3	2:DE:319:TYR:CE2	2.51	0.45
3:DF:49:ILE:HG13	3:DF:50:ASN:N	2.31	0.45
3:DF:259:MET:HG3	3:DF:268:PHE:HE2	1.82	0.45
3:DF:288:VAL:HA	3:DF:291:LEU:HD12	1.99	0.45
2:EA:208:ALA:O	2:EA:212:ILE:HG12	2.17	0.45
2:EC:208:ALA:O	2:EC:212:ILE:HG12	2.17	0.45
3:EF:327:GLU:HA	3:EF:330:GLU:HG2	1.98	0.45
3:FB:49:ILE:HG13	3:FB:50:ASN:N	2.31	0.45
2:FE:329:ASN:HA	2:FE:332:ILE:HG12	1.98	0.45
3:GB:259:MET:HG3	3:GB:268:PHE:HE2	1.82	0.45
2:GE:329:ASN:HA	2:GE:332:ILE:HG12	1.98	0.45
3:GF:57:THR:O	3:GF:60:LYS:NZ	2.42	0.45
2:HC:280:LYS:HE3	2:HC:280:LYS:CA	2.42	0.45
2:HE:208:ALA:O	2:HE:212:ILE:HG12	2.17	0.45
2:JA:122:ILE:HD13	2:JA:157:LEU:HD21	1.98	0.45
2:JA:204:VAL:HG13	2:JA:302:MET:CE	2.46	0.45
3:JB:103:TRP:HB2	3:JB:186:ASN:OD1	2.15	0.45
2:JC:122:ILE:HD13	2:JC:157:LEU:HD21	1.98	0.45
3:JD:24:ILE:HA	3:JD:27:GLU:HG2	1.98	0.45
3:JD:103:TRP:HB2	3:JD:186:ASN:OD1	2.15	0.45
2:KA:122:ILE:HD13	2:KA:157:LEU:HD21	1.98	0.45
2:KA:401:LYS:HZ3	2:KA:403:ALA:HB2	1.80	0.45
2:KC:122:ILE:HD13	2:KC:157:LEU:HD21	1.97	0.45
2:KC:172:TYR:OH	2:KC:387:ALA:O	2.28	0.45
3:LB:238:VAL:HG12	3:LB:378:ILE:HD11	1.98	0.45
3:LB:257:VAL:HG13	3:LB:258:ASN:HD22	1.81	0.45
3:LD:103:TRP:HB2	3:LD:186:ASN:OD1	2.15	0.45
3:MB:49:ILE:HG13	3:MB:50:ASN:N	2.31	0.45
3:MB:238:VAL:HG12	3:MB:378:ILE:HD11	1.98	0.45
2:MC:208:ALA:O	2:MC:212:ILE:HG12	2.17	0.45
3:MD:24:ILE:HA	3:MD:27:GLU:HG2	1.98	0.45
3:NB:257:VAL:HG13	3:NB:258:ASN:HD22	1.81	0.45
3:ND:257:VAL:HG13	3:ND:258:ASN:HD22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:101:ASN:H	3:NF:254:LYS:NZ	2.14	0.45
3:NF:3:GLU:HG3	3:NF:50:ASN:O	2.17	0.45
3:AD:24:ILE:HA	3:AD:27:GLU:HG2	1.98	0.45
3:BB:83:PHE:O	3:BB:86:ILE:HG22	2.17	0.45
3:BB:259:MET:HG3	3:BB:268:PHE:HE2	1.82	0.45
3:BF:238:VAL:HG12	3:BF:378:ILE:HD11	1.98	0.45
3:BF:259:MET:HG3	3:BF:268:PHE:HE2	1.82	0.45
2:CA:317:LEU:HB3	2:CA:319:TYR:CE2	2.51	0.45
2:CC:317:LEU:HB3	2:CC:319:TYR:CE2	2.51	0.45
2:CC:319:TYR:N	2:CC:354:GLY:O	2.48	0.45
3:CD:21:TRP:CE3	3:CD:24:ILE:HD11	2.50	0.45
3:CD:269:MET:HE1	3:CD:303:ALA:HB3	1.98	0.45
2:CE:208:ALA:O	2:CE:212:ILE:HG12	2.17	0.45
2:CE:319:TYR:N	2:CE:354:GLY:O	2.48	0.45
2:DA:122:ILE:HD13	2:DA:157:LEU:HD21	1.98	0.45
3:DB:288:VAL:HA	3:DB:291:LEU:HD12	1.99	0.45
2:DE:21:TRP:HZ3	2:DE:52:PHE:CD1	2.31	0.45
3:ED:49:ILE:HG13	3:ED:50:ASN:N	2.31	0.45
2:EE:208:ALA:O	2:EE:212:ILE:HG12	2.17	0.45
2:FC:329:ASN:HA	2:FC:332:ILE:HG12	1.98	0.45
2:GA:329:ASN:HA	2:GA:332:ILE:HG12	1.98	0.45
3:GB:49:ILE:HG13	3:GB:50:ASN:N	2.31	0.45
3:GB:221:THR:HA	2:GC:326:LYS:NZ	2.32	0.45
3:GD:259:MET:HG3	3:GD:268:PHE:HE2	1.82	0.45
2:HA:122:ILE:HD13	2:HA:157:LEU:HD21	1.98	0.45
2:HA:208:ALA:O	2:HA:212:ILE:HG12	2.17	0.45
2:HA:394:LYS:HZ2	3:HB:348:PRO:HG3	1.82	0.45
3:HB:220:THR:O	2:HC:326:LYS:NZ	2.50	0.45
2:HC:317:LEU:HB3	2:HC:319:TYR:CE2	2.51	0.45
2:IC:70:LEU:HD12	2:IC:99:ALA:HB2	1.98	0.45
2:IC:280:LYS:HE3	2:IC:280:LYS:CA	2.42	0.45
3:JB:49:ILE:HG13	3:JB:50:ASN:N	2.31	0.45
2:JE:204:VAL:HG13	2:JE:302:MET:CE	2.46	0.45
2:KA:329:ASN:HA	2:KA:332:ILE:HG12	1.98	0.45
3:KB:24:ILE:HA	3:KB:27:GLU:HG2	1.98	0.45
3:KB:103:TRP:HB2	3:KB:186:ASN:OD1	2.15	0.45
2:KE:122:ILE:HD13	2:KE:157:LEU:HD21	1.98	0.45
3:LB:327:GLU:HA	3:LB:330:GLU:HG2	1.98	0.45
3:LB:394:GLN:NE2	2:LC:348:PRO:HG2	2.23	0.45
3:LD:238:VAL:HG12	3:LD:378:ILE:HD11	1.98	0.45
2:MA:70:LEU:HD12	2:MA:99:ALA:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MB:24:ILE:HA	3:MB:27:GLU:HG2	1.98	0.45
2:ME:208:ALA:O	2:ME:212:ILE:HG12	2.17	0.45
2:ME:394:LYS:NZ	3:MF:348:PRO:HB3	2.31	0.45
3:MF:60:LYS:HE3	3:NF:283:TYR:HA	1.98	0.45
2:NA:329:ASN:HA	2:NA:332:ILE:HG12	1.98	0.45
3:NB:3:GLU:HG3	3:NB:50:ASN:O	2.17	0.45
2:NC:329:ASN:HA	2:NC:332:ILE:HG12	1.98	0.45
3:ND:3:GLU:HG3	3:ND:50:ASN:O	2.17	0.45
3:ND:24:ILE:HA	3:ND:27:GLU:HG2	1.98	0.45
2:NE:319:TYR:N	2:NE:354:GLY:O	2.48	0.45
3:NF:257:VAL:HG13	3:NF:258:ASN:HD22	1.81	0.45
1:IE:68:SER:HB2	3:NF:116:ASP:OD1	2.17	0.45
2:AA:172:TYR:OH	2:AA:387:ALA:O	2.28	0.45
3:AB:3:GLU:HG3	3:AB:50:ASN:O	2.17	0.45
4:AC:501:GTP:PG	3:AD:254:LYS:HZ1	2.38	0.45
3:AD:3:GLU:HG3	3:AD:50:ASN:O	2.17	0.45
3:BD:288:VAL:HA	3:BD:291:LEU:HD12	1.99	0.45
3:BF:288:VAL:HA	3:BF:291:LEU:HD12	1.99	0.45
3:CB:269:MET:HE1	3:CB:303:ALA:HB3	1.98	0.45
2:CE:317:LEU:HB3	2:CE:319:TYR:CE2	2.51	0.45
2:DA:145:THR:OG1	4:DA:501:GTP:O2G	2.27	0.45
3:DB:259:MET:HG3	3:DB:268:PHE:HE2	1.82	0.45
2:DC:329:ASN:HA	2:DC:332:ILE:HG12	1.98	0.45
2:DE:329:ASN:HA	2:DE:332:ILE:HG12	1.98	0.45
3:DF:83:PHE:O	3:DF:86:ILE:HG22	2.17	0.45
3:EB:23:VAL:HG13	7:EB:502:TA1:H321	1.99	0.45
3:EB:327:GLU:HA	3:EB:330:GLU:HG2	1.98	0.45
3:ED:238:VAL:HG12	3:ED:378:ILE:HD11	1.98	0.45
2:EE:319:TYR:N	2:EE:354:GLY:O	2.48	0.45
2:FC:269:LEU:N	2:FC:379:SER:O	2.47	0.45
2:GE:208:ALA:O	2:GE:212:ILE:HG12	2.17	0.45
2:HA:70:LEU:HD12	2:HA:99:ALA:HB2	1.98	0.45
2:HA:317:LEU:HB3	2:HA:319:TYR:CE2	2.51	0.45
2:HC:208:ALA:O	2:HC:212:ILE:HG12	2.17	0.45
2:HE:317:LEU:HB3	2:HE:319:TYR:CE2	2.51	0.45
3:HF:269:MET:HE1	3:HF:303:ALA:HB3	1.98	0.45
2:IE:57:GLY:N	2:JE:285:GLN:CG	2.79	0.45
2:IE:70:LEU:HD12	2:IE:99:ALA:HB2	1.98	0.45
2:JA:208:ALA:O	2:JA:212:ILE:HG12	2.17	0.45
3:JB:24:ILE:HA	3:JB:27:GLU:HG2	1.98	0.45
2:JC:208:ALA:O	2:JC:212:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:208:ALA:O	2:JE:212:ILE:HG12	2.17	0.45
3:KB:403:ALA:CB	2:KC:346:TRP:CE3	2.99	0.45
3:KD:3:GLU:HG3	3:KD:50:ASN:O	2.17	0.45
3:KF:3:GLU:HG3	3:KF:50:ASN:O	2.17	0.45
3:LD:327:GLU:HA	3:LD:330:GLU:HG2	1.98	0.45
3:MD:49:ILE:HG13	3:MD:50:ASN:N	2.31	0.45
3:MF:49:ILE:HG13	3:MF:50:ASN:N	2.31	0.45
3:MF:257:VAL:HG13	3:MF:258:ASN:HD22	1.81	0.45
3:NB:289:PRO:O	3:NB:292:THR:OG1	2.23	0.45
2:NC:70:LEU:HD12	2:NC:99:ALA:HB2	1.98	0.45
2:NC:204:VAL:HG13	2:NC:302:MET:CE	2.46	0.45
2:NE:204:VAL:HG13	2:NE:302:MET:CE	2.46	0.45
1:1D:24:VAL:HG21	1:1D:36:LEU:HD22	1.99	0.45
2:AA:204:VAL:HG13	2:AA:302:MET:CE	2.46	0.45
2:AA:401:LYS:HZ3	2:AA:403:ALA:HB2	1.81	0.45
2:AC:204:VAL:HG13	2:AC:302:MET:CE	2.46	0.45
2:AE:204:VAL:HG13	2:AE:302:MET:CE	2.46	0.45
2:AE:269:LEU:N	2:AE:379:SER:O	2.47	0.45
3:AF:238:VAL:HG12	3:AF:378:ILE:HD11	1.98	0.45
3:BB:238:VAL:HG12	3:BB:378:ILE:HD11	1.98	0.45
3:BB:288:VAL:HA	3:BB:291:LEU:HD12	1.99	0.45
2:BC:181:VAL:HG12	3:BD:258:ASN:OD1	2.17	0.45
3:BF:3:GLU:HG3	3:BF:50:ASN:O	2.17	0.45
2:CA:319:TYR:N	2:CA:354:GLY:O	2.48	0.45
3:CB:21:TRP:CE3	3:CB:24:ILE:HD11	2.50	0.45
2:CC:208:ALA:O	2:CC:212:ILE:HG12	2.17	0.45
2:CE:329:ASN:HA	2:CE:332:ILE:HG12	1.98	0.45
3:DB:83:PHE:O	3:DB:86:ILE:HG22	2.17	0.45
2:EA:204:VAL:HG13	2:EA:302:MET:CE	2.46	0.45
2:EA:319:TYR:N	2:EA:354:GLY:O	2.48	0.45
3:EB:238:VAL:HG12	3:EB:378:ILE:HD11	1.98	0.45
3:ED:327:GLU:HA	3:ED:330:GLU:HG2	1.98	0.45
2:FA:329:ASN:HA	2:FA:332:ILE:HG12	1.98	0.45
3:FB:23:VAL:HG13	7:FB:502:TA1:H321	1.99	0.45
2:FE:269:LEU:N	2:FE:379:SER:O	2.47	0.45
2:GA:422:ARG:CB	2:GA:425:MET:HE2	2.38	0.45
3:GB:23:VAL:HG13	7:GB:502:TA1:H321	1.99	0.45
3:GB:83:PHE:O	3:GB:86:ILE:HG22	2.17	0.45
2:GC:208:ALA:O	2:GC:212:ILE:HG12	2.17	0.45
2:GC:280:LYS:HE3	2:GC:280:LYS:CA	2.42	0.45
2:GC:329:ASN:HA	2:GC:332:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:23:VAL:HG13	7:GD:502:TA1:H321	1.99	0.45
3:GD:57:THR:O	3:GD:60:LYS:NZ	2.42	0.45
3:HB:212:ILE:O	3:HB:216:THR:OG1	2.23	0.45
2:HC:70:LEU:HD12	2:HC:99:ALA:HB2	1.98	0.45
2:HC:122:ILE:HD13	2:HC:157:LEU:HD21	1.98	0.45
2:HE:122:ILE:HD13	2:HE:157:LEU:HD21	1.98	0.45
3:HF:23:VAL:HG13	7:HF:502:TA1:H321	1.99	0.45
2:IA:280:LYS:HE3	2:IA:280:LYS:CA	2.42	0.45
2:IE:204:VAL:HG13	2:IE:302:MET:CE	2.46	0.45
2:JC:204:VAL:HG13	2:JC:302:MET:CE	2.46	0.45
3:JD:259:MET:HG3	3:JD:268:PHE:HE2	1.82	0.45
3:JF:259:MET:HG3	3:JF:268:PHE:HE2	1.82	0.45
2:KE:172:TYR:OH	2:KE:387:ALA:O	2.28	0.45
2:KE:208:ALA:O	2:KE:212:ILE:HG12	2.17	0.45
2:KE:401:LYS:HZ3	2:KE:403:ALA:HB2	1.81	0.45
2:LA:329:ASN:HA	2:LA:332:ILE:HG12	1.98	0.45
3:LB:3:GLU:HG3	3:LB:50:ASN:O	2.17	0.45
3:LB:103:TRP:HB2	3:LB:186:ASN:OD1	2.15	0.45
2:LE:329:ASN:HA	2:LE:332:ILE:HG12	1.98	0.45
3:LF:24:ILE:HA	3:LF:27:GLU:HG2	1.98	0.45
2:MA:227:LEU:O	2:MA:230:LEU:HG	2.17	0.45
2:MC:70:LEU:HD12	2:MC:99:ALA:HB2	1.98	0.45
3:MD:143:GLY:N	3:MD:183:GLU:OE1	2.45	0.45
2:ME:70:LEU:HD12	2:ME:99:ALA:HB2	1.98	0.45
2:ME:237:SER:HB3	2:ME:376:CYS:HB2	1.99	0.45
3:MF:3:GLU:HG3	3:MF:50:ASN:O	2.17	0.45
2:NA:70:LEU:HD12	2:NA:99:ALA:HB2	1.98	0.45
2:NA:208:ALA:O	2:NA:212:ILE:HG12	2.17	0.45
2:NA:227:LEU:O	2:NA:230:LEU:HG	2.17	0.45
3:NB:259:MET:HG3	3:NB:268:PHE:HE2	1.82	0.45
2:NC:224:TYR:HD1	3:ND:325:MET:HE2	1.78	0.45
2:NC:280:LYS:HE3	2:NC:280:LYS:CA	2.42	0.45
3:ND:49:ILE:HG13	3:ND:50:ASN:N	2.31	0.45
2:NE:227:LEU:O	2:NE:230:LEU:HG	2.17	0.45
2:NE:237:SER:HB3	2:NE:376:CYS:HB2	1.99	0.45
3:NF:24:ILE:HA	3:NF:27:GLU:HG2	1.98	0.45
3:NF:49:ILE:HG13	3:NF:50:ASN:N	2.31	0.45
3:NF:83:PHE:O	3:NF:86:ILE:HG22	2.17	0.45
3:AB:24:ILE:HA	3:AB:27:GLU:HG2	1.98	0.45
3:AD:238:VAL:HG12	3:AD:378:ILE:HD11	1.98	0.45
2:AE:88:HIS:NE2	2:BE:284:GLU:OE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AE:237:SER:HB3	2:AE:376:CYS:HB2	1.99	0.45
3:AF:3:GLU:HG3	3:AF:50:ASN:O	2.17	0.45
3:BD:3:GLU:HG3	3:BD:50:ASN:O	2.17	0.45
3:BD:83:PHE:O	3:BD:86:ILE:HG22	2.17	0.45
3:BD:238:VAL:HG12	3:BD:378:ILE:HD11	1.98	0.45
3:BF:69:ASP:OD2	3:BF:74:THR:OG1	2.18	0.45
2:CA:208:ALA:O	2:CA:212:ILE:HG12	2.17	0.45
2:CC:329:ASN:HA	2:CC:332:ILE:HG12	1.98	0.45
2:DA:329:ASN:HA	2:DA:332:ILE:HG12	1.98	0.45
2:DC:107:HIS:HD1	2:DC:151:SER:HG	1.55	0.45
3:DD:83:PHE:O	3:DD:86:ILE:HG22	2.17	0.45
2:DE:107:HIS:HD1	2:DE:151:SER:HG	1.55	0.45
3:EB:49:ILE:HG13	3:EB:50:ASN:N	2.31	0.45
2:EC:122:ILE:HD13	2:EC:157:LEU:HD21	1.98	0.45
3:ED:23:VAL:HG13	7:ED:502:TA1:H321	1.99	0.45
3:ED:289:PRO:O	3:ED:292:THR:OG1	2.23	0.45
2:EE:394:LYS:HZ3	3:EF:348:PRO:HG3	1.82	0.45
3:EF:23:VAL:HG13	7:EF:502:TA1:H321	1.99	0.45
3:EF:49:ILE:HG13	3:EF:50:ASN:N	2.31	0.45
3:EF:288:VAL:HA	3:EF:291:LEU:HD12	1.99	0.45
3:FD:23:VAL:HG13	7:FD:502:TA1:H321	1.99	0.45
3:FF:23:VAL:HG13	7:FF:502:TA1:H321	1.99	0.45
2:GA:122:ILE:HD13	2:GA:157:LEU:HD21	1.98	0.45
2:GA:208:ALA:O	2:GA:212:ILE:HG12	2.17	0.45
3:HD:23:VAL:HG13	7:HD:502:TA1:H321	1.99	0.45
2:HE:70:LEU:HD12	2:HE:99:ALA:HB2	1.98	0.45
2:IA:70:LEU:HD12	2:IA:99:ALA:HB2	1.98	0.45
2:IA:208:ALA:O	2:IA:212:ILE:HG12	2.17	0.45
3:IB:23:VAL:HG13	7:IB:502:TA1:H321	1.99	0.45
3:IB:83:PHE:O	3:IB:86:ILE:HG22	2.17	0.45
3:ID:83:PHE:O	3:ID:86:ILE:HG22	2.17	0.45
3:ID:259:MET:HG3	3:ID:268:PHE:HE2	1.82	0.45
3:IF:83:PHE:O	3:IF:86:ILE:HG22	2.17	0.45
3:JD:49:ILE:HG13	3:JD:50:ASN:N	2.31	0.45
2:KA:222:PRO:HD2	3:KB:326:LYS:HE2	1.98	0.45
3:KB:3:GLU:HG3	3:KB:50:ASN:O	2.17	0.45
2:KC:208:ALA:O	2:KC:212:ILE:HG12	2.17	0.45
3:LB:24:ILE:HA	3:LB:27:GLU:HG2	1.98	0.45
3:LD:24:ILE:HA	3:LD:27:GLU:HG2	1.98	0.45
2:LE:204:VAL:HG13	2:LE:302:MET:CE	2.46	0.45
3:LF:3:GLU:HG3	3:LF:50:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:69:ASP:OD2	3:LF:74:THR:OG1	2.18	0.45
3:LF:238:VAL:HG12	3:LF:378:ILE:HD11	1.98	0.45
3:LF:327:GLU:HA	3:LF:330:GLU:HG2	1.98	0.45
2:MA:237:SER:HB3	2:MA:376:CYS:HB2	1.99	0.45
3:MB:3:GLU:HG3	3:MB:50:ASN:O	2.17	0.45
3:MB:143:GLY:N	3:MB:183:GLU:OE1	2.45	0.45
2:MC:204:VAL:HG13	2:MC:302:MET:CE	2.46	0.45
2:MC:227:LEU:O	2:MC:230:LEU:HG	2.17	0.45
2:MC:237:SER:HB3	2:MC:376:CYS:HB2	1.99	0.45
3:MD:3:GLU:HG3	3:MD:50:ASN:O	2.17	0.45
3:MD:100:GLY:HA2	2:ME:254:GLU:HB2	1.98	0.45
2:ME:204:VAL:HG13	2:ME:302:MET:CE	2.46	0.45
3:MF:289:PRO:O	3:MF:292:THR:OG1	2.23	0.45
3:NB:24:ILE:HA	3:NB:27:GLU:HG2	1.98	0.45
2:NC:227:LEU:O	2:NC:230:LEU:HG	2.17	0.45
2:NC:237:SER:HB3	2:NC:376:CYS:HB2	1.99	0.45
3:ND:57:THR:O	3:ND:60:LYS:NZ	2.42	0.45
3:ND:83:PHE:O	3:ND:86:ILE:HG22	2.17	0.45
3:NF:289:PRO:O	3:NF:292:THR:OG1	2.23	0.45
1:1A:24:VAL:HG21	1:1A:36:LEU:HD22	1.99	0.45
2:AA:237:SER:HB3	2:AA:376:CYS:HB2	1.99	0.45
2:AC:237:SER:HB3	2:AC:376:CYS:HB2	1.99	0.45
2:BA:237:SER:HB3	2:BA:376:CYS:HB2	1.99	0.45
2:BC:227:LEU:O	2:BC:230:LEU:HG	2.17	0.45
2:BC:237:SER:HB3	2:BC:376:CYS:HB2	1.99	0.45
2:BE:227:LEU:O	2:BE:230:LEU:HG	2.17	0.45
3:BF:83:PHE:O	3:BF:86:ILE:HG22	2.17	0.45
2:CA:224:TYR:HD2	4:CA:501:GTP:C6	2.35	0.45
3:CB:83:PHE:O	3:CB:86:ILE:HG22	2.17	0.45
2:CC:224:TYR:HD2	4:CC:501:GTP:C6	2.35	0.45
3:CD:83:PHE:O	3:CD:86:ILE:HG22	2.17	0.45
3:DB:23:VAL:HG13	7:DB:502:TA1:H321	1.99	0.45
3:DD:23:VAL:HG13	7:DD:502:TA1:H321	1.99	0.45
2:DE:227:LEU:O	2:DE:230:LEU:HG	2.17	0.45
3:EB:289:PRO:O	3:EB:292:THR:OG1	2.23	0.45
2:EC:204:VAL:HG13	2:EC:302:MET:CE	2.46	0.45
3:ED:403:ALA:HB2	2:EE:346:TRP:CH2	2.52	0.45
2:EE:204:VAL:HG13	2:EE:302:MET:CE	2.46	0.45
2:FA:208:ALA:O	2:FA:212:ILE:HG12	2.17	0.45
2:FC:224:TYR:HD2	4:FC:501:GTP:C6	2.35	0.45
2:FE:237:SER:HB3	2:FE:376:CYS:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GC:237:SER:HB3	2:GC:376:CYS:HB2	1.99	0.45
3:GD:49:ILE:HG13	3:GD:50:ASN:N	2.31	0.45
2:GE:122:ILE:HD13	2:GE:157:LEU:HD21	1.98	0.45
2:GE:237:SER:HB3	2:GE:376:CYS:HB2	1.99	0.45
3:GF:23:VAL:HG13	7:GF:502:TA1:H321	1.99	0.45
3:HB:23:VAL:HG13	7:HB:502:TA1:H321	1.99	0.45
3:HB:269:MET:HE1	3:HB:303:ALA:HB3	1.98	0.45
2:HC:237:SER:HB3	2:HC:376:CYS:HB2	1.99	0.45
3:HD:269:MET:HE1	3:HD:303:ALA:HB3	1.98	0.45
2:IA:204:VAL:HG13	2:IA:302:MET:CE	2.46	0.45
2:IA:237:SER:HB3	2:IA:376:CYS:HB2	1.99	0.45
3:IB:401:ARG:HD2	2:IC:346:TRP:CH2	2.52	0.45
3:ID:23:VAL:HG13	7:ID:502:TA1:H321	1.99	0.45
3:IF:49:ILE:HG13	3:IF:50:ASN:N	2.31	0.45
3:IF:259:MET:HG3	3:IF:268:PHE:HE2	1.82	0.45
2:JA:146:GLY:O	2:JA:150:THR:OG1	2.27	0.45
2:JA:237:SER:HB3	2:JA:376:CYS:HB2	1.99	0.45
3:JB:259:MET:HG3	3:JB:268:PHE:HE2	1.82	0.45
4:JC:501:GTP:O1G	3:JD:254:LYS:NZ	2.44	0.45
2:KA:172:TYR:N	2:KA:204:VAL:O	2.27	0.45
2:KA:208:ALA:O	2:KA:212:ILE:HG12	2.17	0.45
3:KD:158:ARG:NH2	3:KD:164:ARG:O	2.38	0.45
2:KE:224:TYR:CD1	3:KF:325:MET:HE2	2.52	0.45
3:KF:49:ILE:HG13	3:KF:50:ASN:N	2.31	0.45
2:LA:227:LEU:O	2:LA:230:LEU:HG	2.17	0.45
3:LB:83:PHE:O	3:LB:86:ILE:HG22	2.17	0.45
3:LB:259:MET:HG3	3:LB:268:PHE:HE2	1.82	0.45
2:LC:329:ASN:HA	2:LC:332:ILE:HG12	1.98	0.45
3:LD:3:GLU:HG3	3:LD:50:ASN:O	2.17	0.45
3:LD:83:PHE:O	3:LD:86:ILE:HG22	2.17	0.45
3:LF:83:PHE:O	3:LF:86:ILE:HG22	2.17	0.45
3:LF:259:MET:HG3	3:LF:268:PHE:HE2	1.82	0.45
2:MA:204:VAL:HG13	2:MA:302:MET:CE	2.46	0.45
3:MD:257:VAL:HG13	3:MD:258:ASN:HD22	1.81	0.45
3:MD:327:GLU:HA	3:MD:330:GLU:HG2	1.98	0.45
2:ME:227:LEU:O	2:ME:230:LEU:HG	2.17	0.45
3:MF:269:MET:HE1	3:MF:303:ALA:HB3	1.98	0.45
3:MF:327:GLU:HA	3:MF:330:GLU:HG2	1.98	0.45
2:NA:11:GLN:HE22	3:NB:249:ASN:HB2	1.81	0.45
2:NA:237:SER:HB3	2:NA:376:CYS:HB2	1.99	0.45
2:NA:269:LEU:N	2:NA:379:SER:O	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NB:143:GLY:N	3:NB:183:GLU:OE1	2.45	0.45
2:NC:208:ALA:O	2:NC:212:ILE:HG12	2.17	0.45
3:ND:259:MET:HG3	3:ND:268:PHE:HE2	1.82	0.45
1:1B:24:VAL:HG21	1:1B:36:LEU:HD22	1.99	0.44
1:1B:64:VAL:CA	2:AC:308:ARG:HE	2.29	0.44
1:1B:97:ARG:NH1	1:1B:101:GLN:HG2	2.32	0.44
1:1C:24:VAL:HG21	1:1C:36:LEU:HD22	1.99	0.44
2:AA:269:LEU:N	2:AA:379:SER:O	2.47	0.44
3:AB:288:VAL:HA	3:AB:291:LEU:HD12	1.99	0.44
2:AE:227:LEU:O	2:AE:230:LEU:HG	2.17	0.44
3:AF:288:VAL:HA	3:AF:291:LEU:HD12	1.99	0.44
3:AF:327:GLU:HA	3:AF:330:GLU:HG2	1.98	0.44
2:BA:224:TYR:HD2	4:BA:501:GTP:C6	2.35	0.44
2:BE:237:SER:HB3	2:BE:376:CYS:HB2	1.99	0.44
2:CA:329:ASN:HA	2:CA:332:ILE:HG12	1.98	0.44
2:CE:224:TYR:HD2	4:CE:501:GTP:C6	2.35	0.44
3:CF:83:PHE:O	3:CF:86:ILE:HG22	2.17	0.44
2:DA:171:ILE:HG21	4:DA:501:GTP:N3	2.33	0.44
2:DA:227:LEU:O	2:DA:230:LEU:HG	2.17	0.44
2:DC:227:LEU:O	2:DC:230:LEU:HG	2.17	0.44
2:DE:171:ILE:HG21	4:DE:501:GTP:N3	2.33	0.44
3:DF:23:VAL:HG13	7:DF:502:TA1:H321	1.99	0.44
2:EA:224:TYR:HD2	4:EA:501:GTP:C6	2.35	0.44
2:EA:237:SER:HB3	2:EA:376:CYS:HB2	1.99	0.44
3:EB:259:MET:HG3	3:EB:268:PHE:HE2	1.82	0.44
2:EE:224:TYR:HD2	4:EE:501:GTP:C6	2.35	0.44
3:EF:259:MET:HG3	3:EF:268:PHE:HE2	1.82	0.44
2:FA:122:ILE:HD13	2:FA:157:LEU:HD21	1.98	0.44
2:FA:224:TYR:HD2	4:FA:501:GTP:C6	2.35	0.44
2:FC:122:ILE:HD13	2:FC:157:LEU:HD21	1.98	0.44
2:FE:224:TYR:HD2	4:FE:501:GTP:C6	2.35	0.44
3:FF:312:TYR:HA	3:FF:381:SER:HA	2.00	0.44
2:GA:237:SER:HB3	2:GA:376:CYS:HB2	1.99	0.44
3:GB:221:THR:HA	2:GC:326:LYS:HZ3	1.82	0.44
3:GD:83:PHE:O	3:GD:86:ILE:HG22	2.17	0.44
3:GD:401:ARG:HD2	2:GE:346:TRP:CH2	2.52	0.44
3:GF:312:TYR:HA	3:GF:381:SER:HA	2.00	0.44
2:HA:280:LYS:HE3	2:HA:280:LYS:CA	2.42	0.44
2:HE:237:SER:HB3	2:HE:376:CYS:HB2	1.99	0.44
2:IC:204:VAL:HG13	2:IC:302:MET:CE	2.46	0.44
2:IC:208:ALA:O	2:IC:212:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:49:ILE:HG13	3:ID:50:ASN:N	2.31	0.44
2:IE:208:ALA:O	2:IE:212:ILE:HG12	2.17	0.44
2:IE:237:SER:HB3	2:IE:376:CYS:HB2	1.99	0.44
3:IF:23:VAL:HG13	7:IF:502:TA1:H321	1.99	0.44
3:JB:3:GLU:HG3	3:JB:50:ASN:O	2.17	0.44
3:JB:403:ALA:HB2	2:JC:346:TRP:CZ2	2.52	0.44
2:JC:100:ALA:O	3:JD:257:VAL:HG21	2.17	0.44
2:JC:237:SER:HB3	2:JC:376:CYS:HB2	1.99	0.44
2:JE:237:SER:HB3	2:JE:376:CYS:HB2	1.99	0.44
3:JF:49:ILE:HG13	3:JF:50:ASN:N	2.31	0.44
2:KA:204:VAL:HG13	2:KA:302:MET:CE	2.46	0.44
2:KC:407:TRP:HH2	3:KD:260:VAL:O	2.00	0.44
3:KF:83:PHE:O	3:KF:86:ILE:HG22	2.17	0.44
2:LC:204:VAL:HG13	2:LC:302:MET:CE	2.46	0.44
2:LC:227:LEU:O	2:LC:230:LEU:HG	2.17	0.44
3:MF:143:GLY:N	3:MF:183:GLU:OE1	2.45	0.44
2:NC:269:LEU:N	2:NC:379:SER:O	2.47	0.44
3:ND:240:THR:HA	3:ND:243:ARG:HH21	1.83	0.44
2:NE:208:ALA:O	2:NE:212:ILE:HG12	2.17	0.44
3:NF:238:VAL:HG12	3:NF:378:ILE:HD11	1.98	0.44
3:NF:240:THR:HA	3:NF:243:ARG:HH21	1.82	0.44
2:AA:227:LEU:O	2:AA:230:LEU:HG	2.17	0.44
3:AB:259:MET:HG3	3:AB:268:PHE:HE2	1.82	0.44
3:AB:269:MET:HE1	3:AB:303:ALA:HB3	1.98	0.44
2:AC:227:LEU:O	2:AC:230:LEU:HG	2.17	0.44
2:AC:329:ASN:HA	2:AC:332:ILE:HG12	1.98	0.44
3:AD:288:VAL:HA	3:AD:291:LEU:HD12	1.99	0.44
3:AF:259:MET:HG3	3:AF:268:PHE:HE2	1.82	0.44
2:BA:227:LEU:O	2:BA:230:LEU:HG	2.17	0.44
3:BB:3:GLU:HG3	3:BB:50:ASN:O	2.17	0.44
2:CA:237:SER:HB3	2:CA:376:CYS:HB2	1.99	0.44
2:CC:237:SER:HB3	2:CC:376:CYS:HB2	1.99	0.44
3:CD:240:THR:HA	3:CD:243:ARG:HH21	1.83	0.44
2:DA:237:SER:HB3	2:DA:376:CYS:HB2	1.99	0.44
3:DB:312:TYR:HA	3:DB:381:SER:HA	2.00	0.44
3:DB:401:ARG:HD2	2:DC:346:TRP:CH2	2.52	0.44
2:DC:171:ILE:HG21	4:DC:501:GTP:N3	2.33	0.44
3:DD:312:TYR:HA	3:DD:381:SER:HA	2.00	0.44
2:DE:319:TYR:N	2:DE:354:GLY:O	2.48	0.44
3:DF:312:TYR:HA	3:DF:381:SER:HA	2.00	0.44
2:EA:269:LEU:N	2:EA:379:SER:O	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EC:224:TYR:HD2	4:EC:501:GTP:C6	2.35	0.44
3:ED:259:MET:HG3	3:ED:268:PHE:HE2	1.82	0.44
2:EE:237:SER:HB3	2:EE:376:CYS:HB2	1.99	0.44
2:EE:329:ASN:HA	2:EE:332:ILE:HG12	1.98	0.44
3:EF:312:TYR:HA	3:EF:381:SER:HA	2.00	0.44
2:FA:224:TYR:CE1	3:FB:325:MET:HG3	2.52	0.44
2:FC:208:ALA:O	2:FC:212:ILE:HG12	2.17	0.44
3:FD:312:TYR:HA	3:FD:381:SER:HA	2.00	0.44
2:GA:227:LEU:O	2:GA:230:LEU:HG	2.17	0.44
2:GC:122:ILE:HD13	2:GC:157:LEU:HD21	1.98	0.44
2:GC:227:LEU:O	2:GC:230:LEU:HG	2.17	0.44
2:HA:237:SER:HB3	2:HA:376:CYS:HB2	1.99	0.44
3:HB:101:ASN:ND2	2:HC:254:GLU:HG3	2.31	0.44
3:HB:259:MET:HG3	3:HB:268:PHE:HE2	1.82	0.44
3:HD:101:ASN:ND2	2:HE:254:GLU:CD	2.76	0.44
3:IB:49:ILE:HG13	3:IB:50:ASN:N	2.31	0.44
3:JB:83:PHE:O	3:JB:86:ILE:HG22	2.17	0.44
3:JB:288:VAL:HA	3:JB:291:LEU:HD12	1.99	0.44
2:JC:70:LEU:HD12	2:JC:99:ALA:HB2	1.98	0.44
3:JD:3:GLU:HG3	3:JD:50:ASN:O	2.17	0.44
2:JE:146:GLY:O	2:JE:150:THR:OG1	2.27	0.44
3:JF:23:VAL:HG13	7:JF:502:TA1:H321	1.99	0.44
3:JF:75:MET:HA	3:JF:78:VAL:HG12	2.00	0.44
2:KA:237:SER:HB3	2:KA:376:CYS:HB2	1.99	0.44
3:KD:49:ILE:HG13	3:KD:50:ASN:N	2.31	0.44
3:KD:83:PHE:O	3:KD:86:ILE:HG22	2.17	0.44
2:LA:171:ILE:HG21	4:LA:501:GTP:N3	2.33	0.44
2:LA:204:VAL:HG13	2:LA:302:MET:CE	2.46	0.44
2:LA:237:SER:HB3	2:LA:376:CYS:HB2	1.99	0.44
2:LC:237:SER:HB3	2:LC:376:CYS:HB2	1.99	0.44
3:LD:259:MET:HG3	3:LD:268:PHE:HE2	1.82	0.44
2:LE:89:PRO:HD2	2:ME:280:LYS:HZ3	1.82	0.44
2:LE:171:ILE:HG21	4:LE:501:GTP:N3	2.33	0.44
2:LE:237:SER:HB3	2:LE:376:CYS:HB2	1.99	0.44
3:LF:75:MET:HA	3:LF:78:VAL:HG12	2.00	0.44
3:MB:257:VAL:HG13	3:MB:258:ASN:HD22	1.81	0.44
3:MB:269:MET:HE1	3:MB:303:ALA:HB3	1.98	0.44
3:MD:269:MET:HE1	3:MD:303:ALA:HB3	1.98	0.44
3:MF:259:MET:HG3	3:MF:268:PHE:HE2	1.82	0.44
3:NB:240:THR:HA	3:NB:243:ARG:HH21	1.83	0.44
3:NB:327:GLU:HA	3:NB:330:GLU:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:289:PRO:O	3:ND:292:THR:OG1	2.23	0.44
1:1A:97:ARG:NH1	1:1A:101:GLN:HG2	2.32	0.44
1:1B:61:HIS:HD2	2:AC:311:LYS:HG2	1.83	0.44
1:1C:97:ARG:NH1	1:1C:101:GLN:HG2	2.32	0.44
1:1E:24:VAL:HG21	1:1E:36:LEU:HD22	1.99	0.44
1:1E:67:ASN:ND2	3:NF:115:VAL:CG1	2.80	0.44
1:1E:97:ARG:NH1	1:1E:101:GLN:HG2	2.32	0.44
2:AA:329:ASN:HA	2:AA:332:ILE:HG12	1.98	0.44
3:AB:75:MET:HA	3:AB:78:VAL:HG12	2.00	0.44
2:AC:269:LEU:N	2:AC:379:SER:O	2.47	0.44
3:AD:259:MET:HG3	3:AD:268:PHE:HE2	1.82	0.44
3:AD:269:MET:HE1	3:AD:303:ALA:HB3	1.98	0.44
2:BA:269:LEU:N	2:BA:379:SER:O	2.47	0.44
2:BA:407:TRP:CZ3	3:BB:257:VAL:O	2.70	0.44
2:BC:224:TYR:HD2	4:BC:501:GTP:C6	2.35	0.44
3:BD:276:THR:OG1	7:BD:502:TA1:O07	2.14	0.44
2:BE:224:TYR:HD2	4:BE:501:GTP:C6	2.35	0.44
3:CB:3:GLU:HG3	3:CB:50:ASN:O	2.17	0.44
3:CB:23:VAL:HG13	7:CB:502:TA1:H321	1.99	0.44
3:CB:102:ASN:HB3	3:CB:105:LYS:HB2	1.99	0.44
3:CB:238:VAL:HG12	3:CB:378:ILE:HD11	1.98	0.44
3:CB:240:THR:HA	3:CB:243:ARG:HH21	1.83	0.44
3:CD:3:GLU:HG3	3:CD:50:ASN:O	2.17	0.44
3:CD:23:VAL:HG13	7:CD:502:TA1:H321	1.99	0.44
3:CD:238:VAL:HG12	3:CD:378:ILE:HD11	1.98	0.44
3:CD:312:TYR:HA	3:CD:381:SER:HA	2.00	0.44
2:CE:237:SER:HB3	2:CE:376:CYS:HB2	1.99	0.44
3:CF:102:ASN:HB3	3:CF:105:LYS:HB2	2.00	0.44
3:CF:314:THR:O	3:CF:380:ASN:N	2.40	0.44
2:DA:224:TYR:HD2	4:DA:501:GTP:C6	2.35	0.44
2:DC:237:SER:HB3	2:DC:376:CYS:HB2	1.99	0.44
3:DF:102:ASN:HB3	3:DF:105:LYS:HB2	1.99	0.44
3:DF:327:GLU:HA	3:DF:330:GLU:HG2	1.98	0.44
2:EA:329:ASN:HA	2:EA:332:ILE:HG12	1.98	0.44
3:EB:312:TYR:HA	3:EB:381:SER:HA	2.00	0.44
2:EC:237:SER:HB3	2:EC:376:CYS:HB2	1.99	0.44
2:EC:269:LEU:N	2:EC:379:SER:O	2.47	0.44
2:EC:329:ASN:HA	2:EC:332:ILE:HG12	1.98	0.44
3:ED:286:LEU:HB3	3:ED:373:MET:SD	2.58	0.44
3:ED:288:VAL:HA	3:ED:291:LEU:HD12	1.99	0.44
3:ED:312:TYR:HA	3:ED:381:SER:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EE:227:LEU:O	2:EE:230:LEU:HG	2.17	0.44
2:EE:269:LEU:N	2:EE:379:SER:O	2.47	0.44
2:FA:269:LEU:N	2:FA:379:SER:O	2.47	0.44
3:FB:312:TYR:HA	3:FB:381:SER:HA	2.00	0.44
2:FC:237:SER:HB3	2:FC:376:CYS:HB2	1.99	0.44
2:FE:122:ILE:HD13	2:FE:157:LEU:HD21	1.98	0.44
2:FE:208:ALA:O	2:FE:212:ILE:HG12	2.17	0.44
3:GB:288:VAL:HA	3:GB:291:LEU:HD12	1.99	0.44
3:GD:312:TYR:HA	3:GD:381:SER:HA	2.00	0.44
2:GE:227:LEU:O	2:GE:230:LEU:HG	2.17	0.44
3:GF:49:ILE:HG13	3:GF:50:ASN:N	2.31	0.44
3:GF:83:PHE:O	3:GF:86:ILE:HG22	2.17	0.44
2:HA:171:ILE:HG21	4:HA:501:GTP:N3	2.33	0.44
2:HC:171:ILE:HG21	4:HC:501:GTP:N3	2.33	0.44
2:HC:394:LYS:HZ2	3:HD:348:PRO:HG3	1.82	0.44
3:HD:259:MET:HG3	3:HD:268:PHE:HE2	1.82	0.44
2:HE:171:ILE:HG21	4:HE:501:GTP:N3	2.33	0.44
3:HF:259:MET:HG3	3:HF:268:PHE:HE2	1.82	0.44
3:IB:259:MET:HG3	3:IB:268:PHE:HE2	1.82	0.44
2:IC:122:ILE:HD13	2:IC:157:LEU:HD21	1.98	0.44
2:IC:237:SER:HB3	2:IC:376:CYS:HB2	1.99	0.44
2:IE:122:ILE:HD13	2:IE:157:LEU:HD21	1.98	0.44
2:JA:70:LEU:HD12	2:JA:99:ALA:HB2	1.98	0.44
3:JB:324:SER:OG	3:JB:325:MET:N	2.45	0.44
2:JC:224:TYR:HE1	3:JD:325:MET:HG3	1.82	0.44
3:JD:75:MET:HA	3:JD:78:VAL:HG12	2.00	0.44
2:JE:224:TYR:HD2	4:JE:501:GTP:C6	2.35	0.44
2:KA:222:PRO:CD	3:KB:326:LYS:NZ	2.80	0.44
3:KB:83:PHE:O	3:KB:86:ILE:HG22	2.17	0.44
3:KB:240:THR:HA	3:KB:243:ARG:HH21	1.83	0.44
3:LB:75:MET:HA	3:LB:78:VAL:HG12	2.00	0.44
2:LC:70:LEU:HD12	2:LC:99:ALA:HB2	1.98	0.44
2:LC:171:ILE:HG21	4:LC:501:GTP:N3	2.33	0.44
3:LD:75:MET:HA	3:LD:78:VAL:HG12	2.00	0.44
2:LE:70:LEU:HD12	2:LE:99:ALA:HB2	1.97	0.44
2:LE:227:LEU:O	2:LE:230:LEU:HG	2.17	0.44
3:MB:83:PHE:O	3:MB:86:ILE:HG22	2.17	0.44
2:MC:171:ILE:HG21	4:MC:501:GTP:N3	2.33	0.44
2:ME:171:ILE:HG21	4:ME:501:GTP:N3	2.33	0.44
3:NB:49:ILE:HG13	3:NB:50:ASN:N	2.31	0.44
3:ND:75:MET:HA	3:ND:78:VAL:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:NF:259:MET:HG3	3:NF:268:PHE:HE2	1.82	0.44
3:AB:327:GLU:HA	3:AB:330:GLU:HG2	1.98	0.44
2:AC:171:ILE:HG21	4:AC:501:GTP:N3	2.33	0.44
3:AD:327:GLU:HA	3:AD:330:GLU:HG2	1.98	0.44
2:AE:172:TYR:OH	2:AE:387:ALA:O	2.28	0.44
2:AE:208:ALA:O	2:AE:212:ILE:HG12	2.17	0.44
2:AE:329:ASN:HA	2:AE:332:ILE:HG12	1.98	0.44
2:BA:171:ILE:HG21	4:BA:501:GTP:N3	2.33	0.44
3:BB:23:VAL:HG13	7:BB:502:TA1:H321	1.99	0.44
3:BB:75:MET:HA	3:BB:78:VAL:HG12	2.00	0.44
2:BC:269:LEU:N	2:BC:379:SER:O	2.47	0.44
3:BD:75:MET:HA	3:BD:78:VAL:HG12	2.00	0.44
3:BD:102:ASN:HB3	3:BD:105:LYS:HB2	1.99	0.44
3:BD:179:ASP:O	2:BE:352:LYS:HD2	2.18	0.44
2:BE:208:ALA:O	2:BE:212:ILE:HG12	2.17	0.44
3:BF:75:MET:HA	3:BF:78:VAL:HG12	2.00	0.44
3:BF:143:GLY:N	3:BF:183:GLU:OE1	2.45	0.44
3:BF:291:LEU:HD11	3:BF:373:MET:CG	2.48	0.44
2:CA:171:ILE:HG21	4:CA:501:GTP:N3	2.33	0.44
3:CB:312:TYR:HA	3:CB:381:SER:HA	2.00	0.44
3:CD:102:ASN:HB3	3:CD:105:LYS:HB2	2.00	0.44
3:CF:3:GLU:HG3	3:CF:50:ASN:O	2.17	0.44
3:CF:23:VAL:HG13	7:CF:502:TA1:H321	1.99	0.44
3:CF:238:VAL:HG12	3:CF:378:ILE:HD11	1.98	0.44
3:CF:240:THR:HA	3:CF:243:ARG:HH21	1.83	0.44
3:CF:312:TYR:HA	3:CF:381:SER:HA	2.00	0.44
3:DB:327:GLU:HA	3:DB:330:GLU:HG2	1.98	0.44
2:DE:237:SER:HB3	2:DE:376:CYS:HB2	1.99	0.44
2:EA:122:ILE:HD13	2:EA:157:LEU:HD21	1.98	0.44
3:EB:286:LEU:HB3	3:EB:373:MET:SD	2.58	0.44
2:EE:122:ILE:HD13	2:EE:157:LEU:HD21	1.98	0.44
3:EF:286:LEU:HB3	3:EF:373:MET:SD	2.58	0.44
2:FA:237:SER:HB3	2:FA:376:CYS:HB2	1.99	0.44
2:GA:280:LYS:HE3	2:GA:280:LYS:CA	2.42	0.44
3:GB:312:TYR:HA	3:GB:381:SER:HA	2.00	0.44
3:GF:288:VAL:HA	3:GF:291:LEU:HD12	1.99	0.44
3:HD:83:PHE:O	3:HD:86:ILE:HG22	2.17	0.44
3:HD:222:PRO:HD2	2:HE:326:LYS:NZ	2.32	0.44
3:HF:83:PHE:O	3:HF:86:ILE:HG22	2.17	0.44
2:IA:171:ILE:HG21	4:IA:501:GTP:N3	2.33	0.44
3:JB:286:LEU:HB3	3:JB:373:MET:SD	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JD:83:PHE:O	3:JD:86:ILE:HG22	2.17	0.44
3:JD:288:VAL:HA	3:JD:291:LEU:HD12	1.99	0.44
2:JE:70:LEU:HD12	2:JE:99:ALA:HB2	1.98	0.44
3:JF:3:GLU:HG3	3:JF:50:ASN:O	2.17	0.44
2:KA:227:LEU:O	2:KA:230:LEU:HG	2.17	0.44
2:KC:237:SER:HB3	2:KC:376:CYS:HB2	1.99	0.44
3:KD:23:VAL:HG13	7:KD:502:TA1:H321	1.99	0.44
3:KD:240:THR:HA	3:KD:243:ARG:HH21	1.82	0.44
3:KF:23:VAL:HG13	7:KF:502:TA1:H321	1.99	0.44
2:LA:70:LEU:HD12	2:LA:99:ALA:HB2	1.98	0.44
3:LB:288:VAL:HA	3:LB:291:LEU:HD12	1.99	0.44
3:LF:49:ILE:HG13	3:LF:50:ASN:N	2.31	0.44
2:MA:171:ILE:HG21	4:MA:501:GTP:N3	2.33	0.44
3:MB:327:GLU:HA	3:MB:330:GLU:HG2	1.98	0.44
4:MC:501:GTP:PG	3:MD:254:LYS:HZ1	2.40	0.44
3:MD:83:PHE:O	3:MD:86:ILE:HG22	2.17	0.44
3:NB:83:PHE:O	3:NB:86:ILE:HG22	2.17	0.44
3:ND:238:VAL:HG12	3:ND:378:ILE:HD11	1.98	0.44
2:NE:269:LEU:N	2:NE:379:SER:O	2.47	0.44
3:NF:75:MET:HA	3:NF:78:VAL:HG12	2.00	0.44
1:1D:97:ARG:NH1	1:1D:101:GLN:HG2	2.32	0.44
2:AA:208:ALA:O	2:AA:212:ILE:HG12	2.17	0.44
3:AB:291:LEU:HD11	3:AB:373:MET:CG	2.48	0.44
2:AC:208:ALA:O	2:AC:212:ILE:HG12	2.17	0.44
3:AD:75:MET:HA	3:AD:78:VAL:HG12	2.00	0.44
3:AD:291:LEU:HD11	3:AD:373:MET:CG	2.48	0.44
3:AF:102:ASN:HB3	3:AF:105:LYS:HB2	2.00	0.44
3:AF:269:MET:HE1	3:AF:303:ALA:HB3	1.98	0.44
3:AF:291:LEU:HD11	3:AF:373:MET:CG	2.48	0.44
2:BA:208:ALA:O	2:BA:212:ILE:HG12	2.17	0.44
2:BC:208:ALA:O	2:BC:212:ILE:HG12	2.17	0.44
3:BD:23:VAL:HG13	7:BD:502:TA1:H321	1.99	0.44
2:BE:171:ILE:HG21	4:BE:501:GTP:N3	2.33	0.44
3:BF:23:VAL:HG13	7:BF:502:TA1:H321	1.99	0.44
3:BF:102:ASN:HB3	3:BF:105:LYS:HB2	2.00	0.44
3:BF:327:GLU:HA	3:BF:330:GLU:HG2	1.98	0.44
3:CB:291:LEU:HD11	3:CB:373:MET:CG	2.48	0.44
3:CB:314:THR:O	3:CB:380:ASN:N	2.40	0.44
2:CC:171:ILE:HG21	4:CC:501:GTP:N3	2.33	0.44
2:CC:271:THR:OG1	2:CC:377:MET:HB3	2.18	0.44
3:CD:291:LEU:HD11	3:CD:373:MET:CG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:171:ILE:HG21	4:CE:501:GTP:N3	2.33	0.44
3:CF:291:LEU:HD11	3:CF:373:MET:CG	2.48	0.44
2:DA:269:LEU:N	2:DA:379:SER:O	2.47	0.44
3:DB:286:LEU:HB3	3:DB:373:MET:SD	2.58	0.44
3:DB:291:LEU:HD11	3:DB:373:MET:CG	2.48	0.44
3:DD:327:GLU:HA	3:DD:330:GLU:HG2	1.98	0.44
2:EA:227:LEU:O	2:EA:230:LEU:HG	2.17	0.44
3:EB:112:ALA:O	3:EB:115:VAL:HG12	2.18	0.44
3:EB:288:VAL:HA	3:EB:291:LEU:HD12	1.99	0.44
2:EC:227:LEU:O	2:EC:230:LEU:HG	2.17	0.44
3:EF:143:GLY:N	3:EF:183:GLU:OE1	2.45	0.44
2:FA:227:LEU:O	2:FA:230:LEU:HG	2.17	0.44
2:IA:122:ILE:HD13	2:IA:157:LEU:HD21	1.98	0.44
3:IB:57:THR:O	3:IB:60:LYS:NZ	2.42	0.44
3:IB:112:ALA:O	3:IB:115:VAL:HG12	2.18	0.44
3:IB:240:THR:HA	3:IB:243:ARG:HH21	1.83	0.44
3:IB:288:VAL:HA	3:IB:291:LEU:HD12	1.99	0.44
2:IC:171:ILE:HG21	4:IC:501:GTP:N3	2.33	0.44
3:ID:240:THR:HA	3:ID:243:ARG:HH21	1.83	0.44
7:ID:502:TA1:H472	7:ID:502:TA1:H021	1.88	0.44
2:IE:171:ILE:HG21	4:IE:501:GTP:N3	2.33	0.44
3:IF:240:THR:HA	3:IF:243:ARG:HH21	1.83	0.44
3:JB:23:VAL:HG13	7:JB:502:TA1:H321	1.99	0.44
3:JB:75:MET:HA	3:JB:78:VAL:HG12	2.00	0.44
2:JC:146:GLY:O	2:JC:150:THR:OG1	2.27	0.44
3:JD:23:VAL:HG13	7:JD:502:TA1:H321	1.99	0.44
3:JD:286:LEU:HB3	3:JD:373:MET:SD	2.58	0.44
3:JD:324:SER:OG	3:JD:325:MET:N	2.45	0.44
2:JE:280:LYS:HE3	2:JE:280:LYS:CA	2.42	0.44
3:JF:286:LEU:HB3	3:JF:373:MET:SD	2.58	0.44
3:JF:288:VAL:HA	3:JF:291:LEU:HD12	1.99	0.44
3:JF:324:SER:OG	3:JF:325:MET:N	2.45	0.44
2:KA:171:ILE:HG21	4:KA:501:GTP:N3	2.33	0.44
3:KB:23:VAL:HG13	7:KB:502:TA1:H321	1.99	0.44
3:KB:259:MET:HG3	3:KB:268:PHE:HE2	1.82	0.44
3:KD:259:MET:HG3	3:KD:268:PHE:HE2	1.82	0.44
2:KE:237:SER:HB3	2:KE:376:CYS:HB2	1.99	0.44
3:KF:286:LEU:HB3	3:KF:373:MET:SD	2.58	0.44
3:KF:288:VAL:HA	3:KF:291:LEU:HD12	1.99	0.44
2:LA:224:TYR:HD2	4:LA:501:GTP:C6	2.35	0.44
3:LD:49:ILE:HG13	3:LD:50:ASN:N	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:240:THR:HA	3:LD:243:ARG:HH21	1.83	0.44
3:LD:288:VAL:HA	3:LD:291:LEU:HD12	1.99	0.44
2:LE:224:TYR:HD2	4:LE:501:GTP:C6	2.35	0.44
3:LF:240:THR:HA	3:LF:243:ARG:HH21	1.83	0.44
3:MB:259:MET:HG3	3:MB:268:PHE:HE2	1.82	0.44
2:ME:329:ASN:HA	2:ME:332:ILE:HG12	1.98	0.44
3:MF:75:MET:HA	3:MF:78:VAL:HG12	2.00	0.44
3:NB:75:MET:HA	3:NB:78:VAL:HG12	2.00	0.44
3:NB:238:VAL:HG12	3:NB:378:ILE:HD11	1.98	0.44
1:1B:63:TYR:HE1	1:1B:78:HIS:HB3	1.83	0.44
2:AA:171:ILE:HG21	4:AA:501:GTP:N3	2.33	0.44
2:AE:171:ILE:HG21	4:AE:501:GTP:N3	2.33	0.44
2:AE:394:LYS:NZ	3:AF:348:PRO:HG3	2.33	0.44
2:BC:171:ILE:HG21	4:BC:501:GTP:N3	2.33	0.44
3:BD:291:LEU:HD11	3:BD:373:MET:CG	2.48	0.44
3:CB:112:ALA:O	3:CB:115:VAL:HG12	2.18	0.44
3:CD:112:ALA:O	3:CD:115:VAL:HG12	2.18	0.44
3:CD:314:THR:O	3:CD:380:ASN:N	2.40	0.44
2:CE:227:LEU:O	2:CE:230:LEU:HG	2.17	0.44
2:CE:271:THR:OG1	2:CE:377:MET:HB3	2.18	0.44
3:CF:112:ALA:O	3:CF:115:VAL:HG12	2.18	0.44
3:CF:327:GLU:HA	3:CF:330:GLU:HG2	1.98	0.44
2:DC:224:TYR:HD2	4:DC:501:GTP:C6	2.35	0.44
2:DC:269:LEU:N	2:DC:379:SER:O	2.47	0.44
3:DD:286:LEU:HB3	3:DD:373:MET:SD	2.58	0.44
3:DD:291:LEU:HD11	3:DD:373:MET:CG	2.48	0.44
3:DF:291:LEU:HD11	3:DF:373:MET:CG	2.48	0.44
2:EA:271:THR:OG1	2:EA:377:MET:HB3	2.18	0.44
3:EB:291:LEU:HD11	3:EB:373:MET:CG	2.48	0.44
2:EC:145:THR:OG1	4:EC:501:GTP:O2G	2.27	0.44
2:EC:171:ILE:HG21	4:EC:501:GTP:N3	2.33	0.44
3:ED:112:ALA:O	3:ED:115:VAL:HG12	2.18	0.44
3:ED:240:THR:HA	3:ED:243:ARG:HH21	1.83	0.44
3:ED:291:LEU:HD11	3:ED:373:MET:CG	2.48	0.44
2:EE:394:LYS:HZ3	2:EE:397:LEU:HD23	1.81	0.44
3:EF:88:ARG:NH2	3:FF:283:TYR:CB	2.75	0.44
3:EF:102:ASN:HB3	3:EF:105:LYS:HB2	2.00	0.44
3:EF:112:ALA:O	3:EF:115:VAL:HG12	2.18	0.44
3:EF:291:LEU:HD11	3:EF:373:MET:CG	2.48	0.44
3:FB:288:VAL:HA	3:FB:291:LEU:HD12	1.99	0.44
2:FC:10:GLY:O	2:FC:14:VAL:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FF:3:GLU:HG3	3:FF:50:ASN:O	2.17	0.44
3:FF:286:LEU:HB3	3:FF:373:MET:SD	2.58	0.44
2:GA:171:ILE:HG21	4:GA:501:GTP:N3	2.33	0.44
3:GB:112:ALA:O	3:GB:115:VAL:HG12	2.18	0.44
2:GC:171:ILE:HG21	4:GC:501:GTP:N3	2.33	0.44
3:GD:288:VAL:HA	3:GD:291:LEU:HD12	1.99	0.44
3:GF:112:ALA:O	3:GF:115:VAL:HG12	2.18	0.44
3:HB:240:THR:HA	3:HB:243:ARG:HH21	1.83	0.44
2:HE:227:LEU:O	2:HE:230:LEU:HG	2.17	0.44
3:HF:3:GLU:HG3	3:HF:50:ASN:O	2.17	0.44
3:IB:3:GLU:HG3	3:IB:50:ASN:O	2.17	0.44
3:IB:75:MET:HA	3:IB:78:VAL:HG12	2.00	0.44
3:ID:112:ALA:O	3:ID:115:VAL:HG12	2.18	0.44
3:ID:403:ALA:HB2	2:IE:346:TRP:CZ3	2.52	0.44
3:IF:112:ALA:O	3:IF:115:VAL:HG12	2.18	0.44
2:JE:222:PRO:CD	3:JF:326:LYS:NZ	2.81	0.44
3:JF:83:PHE:O	3:JF:86:ILE:HG22	2.17	0.44
3:KB:49:ILE:HG13	3:KB:50:ASN:N	2.31	0.44
3:KB:75:MET:HA	3:KB:78:VAL:HG12	2.00	0.44
3:KB:286:LEU:HB3	3:KB:373:MET:SD	2.58	0.44
3:KD:286:LEU:HB3	3:KD:373:MET:SD	2.58	0.44
3:KF:240:THR:HA	3:KF:243:ARG:HH21	1.83	0.44
2:LC:224:TYR:HD2	4:LC:501:GTP:C6	2.35	0.44
3:LF:288:VAL:HA	3:LF:291:LEU:HD12	1.99	0.44
2:MA:329:ASN:HA	2:MA:332:ILE:HG12	1.98	0.44
3:MF:83:PHE:O	3:MF:86:ILE:HG22	2.17	0.44
2:NC:171:ILE:HG21	4:NC:501:GTP:N3	2.33	0.44
2:NC:224:TYR:CE1	3:ND:325:MET:HE2	2.52	0.44
2:NE:171:ILE:HG21	4:NE:501:GTP:N3	2.33	0.44
2:NE:224:TYR:HD2	4:NE:501:GTP:C6	2.35	0.44
3:NF:291:LEU:HD11	3:NF:373:MET:CG	2.48	0.44
1:1A:64:VAL:HB	2:AA:308:ARG:HE	1.81	0.44
1:1C:63:TYR:HE1	1:1C:78:HIS:HB3	1.82	0.44
3:AB:102:ASN:HB3	3:AB:105:LYS:HB2	1.99	0.44
2:AC:271:THR:OG1	2:AC:377:MET:HB3	2.18	0.44
3:AF:75:MET:HA	3:AF:78:VAL:HG12	2.00	0.44
3:BB:102:ASN:HB3	3:BB:105:LYS:HB2	2.00	0.44
3:BB:240:THR:HA	3:BB:243:ARG:HH21	1.83	0.44
3:BB:312:TYR:HA	3:BB:381:SER:HA	2.00	0.44
3:BD:222:PRO:CD	2:BE:326:LYS:HZ3	2.21	0.44
3:BD:240:THR:HA	3:BD:243:ARG:HH21	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BD:312:TYR:HA	3:BD:381:SER:HA	2.00	0.44
2:BE:269:LEU:N	2:BE:379:SER:O	2.47	0.44
3:BF:240:THR:HA	3:BF:243:ARG:HH21	1.82	0.44
3:BF:312:TYR:HA	3:BF:381:SER:HA	2.00	0.44
3:CB:327:GLU:HA	3:CB:330:GLU:HG2	1.98	0.44
2:CC:227:LEU:O	2:CC:230:LEU:HG	2.17	0.44
3:CD:327:GLU:HA	3:CD:330:GLU:HG2	1.98	0.44
3:DD:102:ASN:HB3	3:DD:105:LYS:HB2	2.00	0.44
2:DE:146:GLY:O	2:DE:150:THR:OG1	2.27	0.44
2:DE:224:TYR:HD2	4:DE:501:GTP:C6	2.35	0.44
2:EA:224:TYR:CE1	3:EB:325:MET:HG3	2.53	0.44
3:EB:240:THR:HA	3:EB:243:ARG:HH21	1.83	0.44
2:EE:171:ILE:HG21	4:EE:501:GTP:N3	2.33	0.44
2:EE:271:THR:OG1	2:EE:377:MET:HB3	2.18	0.44
3:EF:289:PRO:O	3:EF:292:THR:OG1	2.23	0.44
2:FA:10:GLY:O	2:FA:14:VAL:HG22	2.18	0.44
3:FB:259:MET:HG3	3:FB:268:PHE:HE2	1.82	0.44
3:FB:332:MET:O	3:FB:336:GLN:NE2	2.45	0.44
2:FC:227:LEU:O	2:FC:230:LEU:HG	2.17	0.44
3:FD:286:LEU:HB3	3:FD:373:MET:SD	2.58	0.44
3:FD:288:VAL:HA	3:FD:291:LEU:HD12	1.99	0.44
3:FD:332:MET:O	3:FD:336:GLN:NE2	2.45	0.44
2:FE:227:LEU:O	2:FE:230:LEU:HG	2.17	0.44
3:FF:259:MET:HG3	3:FF:268:PHE:HE2	1.82	0.44
3:FF:332:MET:O	3:FF:336:GLN:NE2	2.45	0.44
3:GD:112:ALA:O	3:GD:115:VAL:HG12	2.18	0.44
2:HA:271:THR:OG1	2:HA:377:MET:HB3	2.18	0.44
3:HB:83:PHE:O	3:HB:86:ILE:HG22	2.17	0.44
2:HC:10:GLY:O	2:HC:14:VAL:HG22	2.18	0.44
2:HC:227:LEU:O	2:HC:230:LEU:HG	2.17	0.44
2:HC:271:THR:OG1	2:HC:377:MET:HB3	2.18	0.44
3:HD:240:THR:HA	3:HD:243:ARG:HH21	1.83	0.44
2:HE:10:GLY:O	2:HE:14:VAL:HG22	2.18	0.44
2:HE:271:THR:OG1	2:HE:377:MET:HB3	2.18	0.44
3:HF:312:TYR:HA	3:HF:381:SER:HA	2.00	0.44
3:HF:332:MET:O	3:HF:336:GLN:NE2	2.45	0.44
2:IA:224:TYR:HD2	4:IA:501:GTP:C6	2.35	0.44
3:IB:286:LEU:HB3	3:IB:373:MET:SD	2.58	0.44
3:ID:3:GLU:HG3	3:ID:50:ASN:O	2.17	0.44
3:ID:75:MET:HA	3:ID:78:VAL:HG12	2.00	0.44
3:IF:3:GLU:HG3	3:IF:50:ASN:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:75:MET:HA	3:IF:78:VAL:HG12	2.00	0.44
2:JA:224:TYR:HD2	4:JA:501:GTP:C6	2.35	0.44
3:JD:222:PRO:HD2	2:JE:326:LYS:HZ3	1.82	0.44
2:KC:171:ILE:HG21	4:KC:501:GTP:N3	2.33	0.44
3:KD:75:MET:HA	3:KD:78:VAL:HG12	2.00	0.44
3:KF:75:MET:HA	3:KF:78:VAL:HG12	2.00	0.44
3:KF:259:MET:HG3	3:KF:268:PHE:HE2	1.82	0.44
2:LA:319:TYR:N	2:LA:354:GLY:O	2.48	0.44
3:LB:240:THR:HA	3:LB:243:ARG:HH21	1.83	0.44
2:MA:224:TYR:HD2	4:MA:501:GTP:C6	2.35	0.44
3:MD:75:MET:HA	3:MD:78:VAL:HG12	2.00	0.44
3:MD:259:MET:HG3	3:MD:268:PHE:HE2	1.82	0.44
2:ME:224:TYR:HD2	4:ME:501:GTP:C6	2.35	0.44
3:MF:23:VAL:HG13	7:MF:502:TA1:H321	1.99	0.44
3:MF:288:VAL:HA	3:MF:291:LEU:HD12	1.99	0.44
1:1A:61:HIS:CD2	2:AA:311:LYS:HG2	2.53	0.44
1:1B:81:ARG:NH2	2:AC:386:GLU:OE2	2.50	0.44
2:AA:397:LEU:HD12	3:AB:346:TRP:CE3	2.52	0.44
2:AE:283:HIS:HB3	3:NB:88:ARG:NH2	2.33	0.44
3:AF:286:LEU:HB3	3:AF:373:MET:SD	2.58	0.44
3:BB:291:LEU:HD11	3:BB:373:MET:CG	2.48	0.44
2:CA:271:THR:OG1	2:CA:377:MET:HB3	2.18	0.44
3:CB:259:MET:HG3	3:CB:268:PHE:HE2	1.82	0.44
3:CD:259:MET:HG3	3:CD:268:PHE:HE2	1.82	0.44
3:CF:75:MET:HA	3:CF:78:VAL:HG12	2.00	0.44
3:DB:75:MET:HA	3:DB:78:VAL:HG12	2.00	0.44
3:DB:102:ASN:HB3	3:DB:105:LYS:HB2	2.00	0.44
3:DD:75:MET:HA	3:DD:78:VAL:HG12	2.00	0.44
2:DE:269:LEU:N	2:DE:379:SER:O	2.47	0.44
3:DF:286:LEU:HB3	3:DF:373:MET:SD	2.58	0.44
2:EC:271:THR:OG1	2:EC:377:MET:HB3	2.18	0.44
3:EF:240:THR:HA	3:EF:243:ARG:HH21	1.83	0.44
3:EF:332:MET:O	3:EF:336:GLN:NE2	2.45	0.44
3:FB:3:GLU:HG3	3:FB:50:ASN:O	2.17	0.44
3:FB:286:LEU:HB3	3:FB:373:MET:SD	2.58	0.44
3:FB:401:ARG:HD2	2:FC:346:TRP:CH2	2.52	0.44
3:FD:3:GLU:HG3	3:FD:50:ASN:O	2.17	0.44
3:FD:259:MET:HG3	3:FD:268:PHE:HE2	1.82	0.44
2:FE:10:GLY:O	2:FE:14:VAL:HG22	2.18	0.44
2:FE:422:ARG:CB	2:FE:425:MET:HE2	2.38	0.44
3:FF:288:VAL:HA	3:FF:291:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:75:MET:HA	3:GD:78:VAL:HG12	2.00	0.44
3:GF:3:GLU:HG3	3:GF:50:ASN:O	2.17	0.44
3:GF:240:THR:HA	3:GF:243:ARG:HH21	1.83	0.44
2:HA:10:GLY:O	2:HA:14:VAL:HG22	2.18	0.44
2:HA:227:LEU:O	2:HA:230:LEU:HG	2.17	0.44
3:HB:3:GLU:HG3	3:HB:50:ASN:O	2.17	0.44
3:HB:332:MET:O	3:HB:336:GLN:NE2	2.45	0.44
3:HD:312:TYR:HA	3:HD:381:SER:HA	2.00	0.44
3:HF:240:THR:HA	3:HF:243:ARG:HH21	1.83	0.44
3:ID:57:THR:O	3:ID:60:LYS:NZ	2.42	0.44
3:ID:288:VAL:HA	3:ID:291:LEU:HD12	1.99	0.44
2:IE:224:TYR:HD2	4:IE:501:GTP:C6	2.35	0.44
2:IE:227:LEU:O	2:IE:230:LEU:HG	2.17	0.44
3:IF:288:VAL:HA	3:IF:291:LEU:HD12	1.99	0.44
2:JC:280:LYS:HE3	2:JC:280:LYS:CA	2.42	0.44
2:JE:232:SER:OG	2:JE:233:GLN:OE1	2.36	0.44
3:KB:312:TYR:HA	3:KB:381:SER:HA	2.00	0.44
3:KD:288:VAL:HA	3:KD:291:LEU:HD12	1.99	0.44
2:KE:171:ILE:HG21	4:KE:501:GTP:N3	2.33	0.44
2:KE:280:LYS:HE3	2:KE:280:LYS:CA	2.42	0.44
3:KF:143:GLY:N	3:KF:183:GLU:OE1	2.45	0.44
3:LB:23:VAL:HG13	7:LB:502:TA1:H321	1.99	0.44
3:LB:49:ILE:HG13	3:LB:50:ASN:N	2.31	0.44
3:LD:23:VAL:HG13	7:LD:502:TA1:H321	1.99	0.44
3:LD:401:ARG:NH1	2:LE:346:TRP:CE2	2.85	0.44
2:LE:280:LYS:HE3	2:LE:280:LYS:CA	2.42	0.44
3:LF:23:VAL:HG13	7:LF:502:TA1:H321	1.99	0.44
3:LF:286:LEU:HB3	3:LF:373:MET:SD	2.58	0.44
3:MB:75:MET:HA	3:MB:78:VAL:HG12	2.00	0.44
2:MC:224:TYR:HD2	4:MC:501:GTP:C6	2.35	0.44
2:MC:329:ASN:HA	2:MC:332:ILE:HG12	1.98	0.44
3:MF:291:LEU:HD11	3:MF:373:MET:CG	2.48	0.44
2:NA:171:ILE:HG21	4:NA:501:GTP:N3	2.33	0.44
2:NA:271:THR:OG1	2:NA:377:MET:HB3	2.18	0.44
2:NA:280:LYS:HE3	2:NA:280:LYS:CA	2.42	0.44
3:NB:23:VAL:HG13	7:NB:502:TA1:H321	1.99	0.44
3:NB:112:ALA:O	3:NB:115:VAL:HG12	2.18	0.44
3:NB:286:LEU:HB3	3:NB:373:MET:SD	2.58	0.44
2:NC:271:THR:OG1	2:NC:377:MET:HB3	2.18	0.44
3:ND:112:ALA:O	3:ND:115:VAL:HG12	2.18	0.44
3:ND:291:LEU:HD11	3:ND:373:MET:CG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:327:GLU:HA	3:ND:330:GLU:HG2	1.98	0.44
1:1A:64:VAL:CA	2:AA:308:ARG:HE	2.31	0.44
1:1D:63:TYR:HE1	1:1D:78:HIS:HB3	1.82	0.44
2:AA:271:THR:OG1	2:AA:377:MET:HB3	2.18	0.44
3:AB:286:LEU:HB3	3:AB:373:MET:SD	2.58	0.44
3:AD:102:ASN:HB3	3:AD:105:LYS:HB2	2.00	0.44
3:AD:286:LEU:HB3	3:AD:373:MET:SD	2.58	0.44
2:AE:271:THR:OG1	2:AE:377:MET:HB3	2.18	0.44
2:CA:269:LEU:N	2:CA:379:SER:O	2.47	0.44
3:CB:75:MET:HA	3:CB:78:VAL:HG12	2.00	0.44
3:CF:259:MET:HG3	3:CF:268:PHE:HE2	1.82	0.44
2:DA:319:TYR:N	2:DA:354:GLY:O	2.48	0.44
3:DB:3:GLU:HG3	3:DB:50:ASN:O	2.17	0.44
2:EA:171:ILE:HG21	4:EA:501:GTP:N3	2.33	0.44
2:EC:104:ALA:HA	2:EC:413:MET:CE	2.48	0.44
3:ED:102:ASN:HB3	3:ED:105:LYS:HB2	2.00	0.44
3:ED:143:GLY:N	3:ED:183:GLU:OE1	2.45	0.44
2:EE:85:GLN:OE1	2:EE:85:GLN:N	2.37	0.44
3:EF:3:GLU:HG3	3:EF:50:ASN:O	2.17	0.44
3:FD:291:LEU:HD11	3:FD:373:MET:CG	2.48	0.44
2:FE:271:THR:OG1	2:FE:377:MET:HB3	2.18	0.44
3:FF:240:THR:HA	3:FF:243:ARG:HH21	1.83	0.44
2:GA:104:ALA:HA	2:GA:413:MET:CE	2.48	0.44
2:GC:104:ALA:HA	2:GC:413:MET:CE	2.48	0.44
3:GD:3:GLU:HG3	3:GD:50:ASN:O	2.17	0.44
2:GE:171:ILE:HG21	4:GE:501:GTP:N3	2.33	0.44
2:GE:224:TYR:HD2	4:GE:501:GTP:C6	2.35	0.44
3:HB:75:MET:HA	3:HB:78:VAL:HG12	2.00	0.44
3:HB:312:TYR:HA	3:HB:381:SER:HA	2.00	0.44
3:HD:3:GLU:HG3	3:HD:50:ASN:O	2.17	0.44
3:HD:75:MET:HA	3:HD:78:VAL:HG12	2.00	0.44
2:HE:221:ARG:NE	3:HF:324:SER:HB3	2.32	0.44
3:HF:75:MET:HA	3:HF:78:VAL:HG12	2.00	0.44
2:IA:227:LEU:O	2:IA:230:LEU:HG	2.17	0.44
2:IA:401:LYS:CE	3:IB:346:TRP:HE1	2.31	0.44
2:IC:224:TYR:HD2	4:IC:501:GTP:C6	2.35	0.44
3:ID:286:LEU:HB3	3:ID:373:MET:SD	2.58	0.44
2:JC:224:TYR:HD2	4:JC:501:GTP:C6	2.35	0.44
2:JE:222:PRO:HD2	3:JF:326:LYS:NZ	2.33	0.44
2:JE:271:THR:OG1	2:JE:377:MET:HB3	2.18	0.44
2:KA:271:THR:OG1	2:KA:377:MET:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KB:288:VAL:HA	3:KB:291:LEU:HD12	1.99	0.44
2:KC:227:LEU:O	2:KC:230:LEU:HG	2.17	0.44
2:KC:271:THR:OG1	2:KC:377:MET:HB3	2.18	0.44
2:KC:404:PHE:CE2	3:KD:261:PRO:HA	2.53	0.44
2:KE:271:THR:OG1	2:KE:377:MET:HB3	2.18	0.44
3:KF:112:ALA:O	3:KF:115:VAL:HG12	2.18	0.44
3:LD:286:LEU:HB3	3:LD:373:MET:SD	2.58	0.44
2:LE:224:TYR:CE1	3:LF:325:MET:HE2	2.52	0.44
2:LE:319:TYR:N	2:LE:354:GLY:O	2.48	0.44
3:LF:112:ALA:O	3:LF:115:VAL:HG12	2.18	0.44
3:MB:214:PHE:O	3:MB:218:LYS:HD3	2.18	0.44
3:MB:288:VAL:HA	3:MB:291:LEU:HD12	1.99	0.44
3:MD:291:LEU:HD11	3:MD:373:MET:CG	2.48	0.44
3:MF:312:TYR:HA	3:MF:381:SER:HA	2.00	0.44
2:NC:224:TYR:HD2	4:NC:501:GTP:C6	2.35	0.44
3:NF:102:ASN:HB3	3:NF:105:LYS:HB2	1.99	0.44
3:NF:286:LEU:HB3	3:NF:373:MET:SD	2.58	0.44
3:NF:327:GLU:HA	3:NF:330:GLU:HG2	1.98	0.44
1:1E:23:TRP:HH2	1:1E:53:TYR:HH	1.62	0.43
2:AE:319:TYR:N	2:AE:354:GLY:O	2.48	0.43
3:AF:214:PHE:O	3:AF:218:LYS:HD3	2.18	0.43
3:AF:240:THR:HA	3:AF:243:ARG:HH21	1.83	0.43
3:BD:327:GLU:HA	3:BD:330:GLU:HG2	1.98	0.43
2:CA:227:LEU:O	2:CA:230:LEU:HG	2.17	0.43
3:CB:288:VAL:HA	3:CB:291:LEU:HD12	1.99	0.43
3:CD:75:MET:HA	3:CD:78:VAL:HG12	2.00	0.43
3:CD:288:VAL:HA	3:CD:291:LEU:HD12	1.99	0.43
2:DA:104:ALA:HA	2:DA:413:MET:CE	2.48	0.43
2:EA:104:ALA:HA	2:EA:413:MET:CE	2.48	0.43
3:ED:3:GLU:HG3	3:ED:50:ASN:O	2.17	0.43
3:ED:214:PHE:O	3:ED:218:LYS:HD3	2.18	0.43
2:EE:104:ALA:HA	2:EE:413:MET:CE	2.48	0.43
2:FA:104:ALA:HA	2:FA:413:MET:CE	2.48	0.43
3:FB:240:THR:HA	3:FB:243:ARG:HH21	1.83	0.43
3:FD:240:THR:HA	3:FD:243:ARG:HH21	1.83	0.43
2:FE:104:ALA:HA	2:FE:413:MET:CE	2.48	0.43
3:FF:102:ASN:HB3	3:FF:105:LYS:HB2	1.99	0.43
3:GB:3:GLU:HG3	3:GB:50:ASN:O	2.17	0.43
3:GB:75:MET:HA	3:GB:78:VAL:HG12	2.00	0.43
3:GB:240:THR:HA	3:GB:243:ARG:HH21	1.83	0.43
3:GD:240:THR:HA	3:GD:243:ARG:HH21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GF:75:MET:HA	3:GF:78:VAL:HG12	2.00	0.43
2:HA:224:TYR:HD2	4:HA:501:GTP:C6	2.35	0.43
3:HD:60:LYS:CE	3:ID:283:TYR:HA	2.48	0.43
3:HD:332:MET:O	3:HD:336:GLN:NE2	2.45	0.43
2:IA:104:ALA:HA	2:IA:413:MET:CE	2.48	0.43
2:IE:104:ALA:HA	2:IE:413:MET:CE	2.48	0.43
3:IF:286:LEU:HB3	3:IF:373:MET:SD	2.58	0.43
2:JA:271:THR:OG1	2:JA:377:MET:HB3	2.18	0.43
2:JC:172:TYR:N	2:JC:204:VAL:O	2.27	0.43
3:JF:240:THR:HA	3:JF:243:ARG:HH21	1.83	0.43
3:KD:312:TYR:HA	3:KD:381:SER:HA	2.00	0.43
3:KF:312:TYR:HA	3:KF:381:SER:HA	2.00	0.43
3:LB:286:LEU:HB3	3:LB:373:MET:SD	2.58	0.43
3:LB:312:TYR:HA	3:LB:381:SER:HA	2.00	0.43
2:LC:319:TYR:N	2:LC:354:GLY:O	2.48	0.43
3:LD:112:ALA:O	3:LD:115:VAL:HG12	2.18	0.43
3:LD:312:TYR:HA	3:LD:381:SER:HA	2.00	0.43
3:LF:158:ARG:NH2	3:LF:164:ARG:O	2.38	0.43
3:LF:312:TYR:HA	3:LF:381:SER:HA	2.00	0.43
3:MB:291:LEU:HD11	3:MB:373:MET:CG	2.48	0.43
3:MD:23:VAL:HG13	7:MD:502:TA1:H321	1.99	0.43
3:MD:214:PHE:O	3:MD:218:LYS:HD3	2.18	0.43
3:MD:288:VAL:HA	3:MD:291:LEU:HD12	1.99	0.43
3:MF:102:ASN:HB3	3:MF:105:LYS:HB2	2.00	0.43
3:MF:286:LEU:HB3	3:MF:373:MET:SD	2.58	0.43
2:NA:221:ARG:HE	3:NB:324:SER:HB3	1.83	0.43
2:NA:224:TYR:HD2	4:NA:501:GTP:C6	2.35	0.43
2:NA:232:SER:OG	2:NA:233:GLN:OE1	2.36	0.43
2:NA:407:TRP:CZ3	3:NB:257:VAL:HA	2.53	0.43
3:NB:291:LEU:HD11	3:NB:373:MET:CG	2.48	0.43
3:NB:401:ARG:HH21	2:NC:345:ASP:CG	2.25	0.43
3:ND:23:VAL:HG13	7:ND:502:TA1:H321	1.99	0.43
3:NF:23:VAL:HG13	7:NF:502:TA1:H321	1.99	0.43
3:NF:112:ALA:O	3:NF:115:VAL:HG12	2.18	0.43
3:NF:214:PHE:O	3:NF:218:LYS:HD3	2.18	0.43
1:1A:63:TYR:HE1	1:1A:78:HIS:HB3	1.83	0.43
2:AA:319:TYR:N	2:AA:354:GLY:O	2.48	0.43
3:AB:214:PHE:O	3:AB:218:LYS:HD3	2.18	0.43
3:AB:403:ALA:HB2	2:AC:346:TRP:CE3	2.51	0.43
3:AD:214:PHE:O	3:AD:218:LYS:HD3	2.18	0.43
2:BA:104:ALA:HA	2:BA:413:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:104:ALA:HA	2:BC:413:MET:CE	2.48	0.43
2:BE:56:THR:HA	2:CE:285:GLN:HB2	2.00	0.43
3:BF:144:GLY:N	6:BF:501:GDP:O2B	2.52	0.43
2:CA:104:ALA:HA	2:CA:413:MET:CE	2.48	0.43
2:CC:104:ALA:HA	2:CC:413:MET:CE	2.48	0.43
2:CE:104:ALA:HA	2:CE:413:MET:CE	2.48	0.43
2:CE:269:LEU:N	2:CE:379:SER:O	2.47	0.43
3:DB:401:ARG:HD2	2:DC:346:TRP:CZ2	2.53	0.43
2:DC:104:ALA:HA	2:DC:413:MET:CE	2.48	0.43
2:DC:319:TYR:N	2:DC:354:GLY:O	2.48	0.43
3:DD:3:GLU:HG3	3:DD:50:ASN:O	2.17	0.43
3:DD:165:ILE:HG12	3:DD:253:ARG:NH2	2.33	0.43
2:DE:104:ALA:HA	2:DE:413:MET:CE	2.48	0.43
3:DF:75:MET:HA	3:DF:78:VAL:HG12	2.00	0.43
3:DF:158:ARG:NH2	3:DF:164:ARG:O	2.38	0.43
2:EA:10:GLY:O	2:EA:14:VAL:HG22	2.18	0.43
3:EB:102:ASN:HB3	3:EB:105:LYS:HB2	1.99	0.43
3:EB:214:PHE:O	3:EB:218:LYS:HD3	2.18	0.43
2:EC:85:GLN:OE1	2:EC:85:GLN:N	2.37	0.43
3:EF:214:PHE:O	3:EF:218:LYS:HD3	2.18	0.43
2:FA:271:THR:OG1	2:FA:377:MET:HB3	2.18	0.43
3:FB:291:LEU:HD11	3:FB:373:MET:CG	2.48	0.43
2:FC:104:ALA:HA	2:FC:413:MET:CE	2.48	0.43
2:FC:271:THR:OG1	2:FC:377:MET:HB3	2.18	0.43
3:FD:102:ASN:HB3	3:FD:105:LYS:HB2	1.99	0.43
2:FE:224:TYR:CG	3:FF:247:GLN:NE2	2.86	0.43
3:FF:291:LEU:HD11	3:FF:373:MET:CG	2.48	0.43
3:GB:291:LEU:HD11	3:GB:373:MET:CG	2.48	0.43
2:GC:224:TYR:HD2	4:GC:501:GTP:C6	2.35	0.43
2:GE:104:ALA:HA	2:GE:413:MET:CE	2.48	0.43
3:HB:288:VAL:HA	3:HB:291:LEU:HD12	1.99	0.43
3:HB:291:LEU:HD11	3:HB:373:MET:CG	2.48	0.43
2:HC:224:TYR:HD2	4:HC:501:GTP:C6	2.35	0.43
2:HE:104:ALA:HA	2:HE:413:MET:CE	2.48	0.43
2:HE:224:TYR:HD2	4:HE:501:GTP:C6	2.35	0.43
2:IC:227:LEU:O	2:IC:230:LEU:HG	2.17	0.43
7:IF:502:TA1:H472	7:IF:502:TA1:H021	1.88	0.43
2:JA:227:LEU:O	2:JA:230:LEU:HG	2.17	0.43
2:JA:280:LYS:HE3	2:JA:280:LYS:CA	2.42	0.43
2:JC:10:GLY:O	2:JC:14:VAL:HG22	2.18	0.43
2:JC:98:ASP:CG	3:JD:254:LYS:HE2	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JC:271:THR:OG1	2:JC:377:MET:HB3	2.18	0.43
2:JE:227:LEU:O	2:JE:230:LEU:HG	2.17	0.43
3:KB:112:ALA:O	3:KB:115:VAL:HG12	2.18	0.43
3:KB:403:ALA:N	2:KC:346:TRP:CH2	2.86	0.43
2:KC:10:GLY:O	2:KC:14:VAL:HG22	2.18	0.43
3:KD:112:ALA:O	3:KD:115:VAL:HG12	2.18	0.43
2:KE:227:LEU:O	2:KE:230:LEU:HG	2.17	0.43
3:LB:112:ALA:O	3:LB:115:VAL:HG12	2.18	0.43
3:LB:214:PHE:O	3:LB:218:LYS:HD3	2.18	0.43
3:MB:144:GLY:N	6:MB:501:GDP:O2B	2.52	0.43
3:MB:240:THR:HA	3:MB:243:ARG:HH21	1.83	0.43
3:MD:312:TYR:HA	3:MD:381:SER:HA	2.00	0.43
3:NB:214:PHE:O	3:NB:218:LYS:HD3	2.18	0.43
3:ND:144:GLY:N	6:ND:501:GDP:O2B	2.52	0.43
3:ND:214:PHE:O	3:ND:218:LYS:HD3	2.18	0.43
3:ND:286:LEU:HB3	3:ND:373:MET:SD	2.58	0.43
2:NE:271:THR:OG1	2:NE:377:MET:HB3	2.18	0.43
1:1E:63:TYR:HE1	1:1E:78:HIS:HB3	1.83	0.43
2:AA:224:TYR:HD2	4:AA:501:GTP:C6	2.35	0.43
3:AB:112:ALA:O	3:AB:115:VAL:HG12	2.18	0.43
2:AC:224:TYR:HD2	4:AC:501:GTP:C6	2.35	0.43
3:AD:23:VAL:HG13	7:AD:502:TA1:H321	1.99	0.43
2:AE:104:ALA:HA	2:AE:413:MET:CE	2.48	0.43
2:AE:224:TYR:HD2	4:AE:501:GTP:C6	2.35	0.43
3:AF:112:ALA:O	3:AF:115:VAL:HG12	2.18	0.43
3:BB:327:GLU:HA	3:BB:330:GLU:HG2	1.98	0.43
3:BD:144:GLY:N	6:BD:501:GDP:O2B	2.52	0.43
3:BF:286:LEU:HB3	3:BF:373:MET:SD	2.58	0.43
3:CF:288:VAL:HA	3:CF:291:LEU:HD12	1.99	0.43
2:DA:17:GLY:O	2:DA:21:TRP:CD1	2.72	0.43
3:DB:165:ILE:HG12	3:DB:253:ARG:NH2	2.34	0.43
2:DE:17:GLY:O	2:DE:21:TRP:CD1	2.72	0.43
3:DF:165:ILE:HG12	3:DF:253:ARG:NH2	2.34	0.43
3:EB:3:GLU:HG3	3:EB:50:ASN:O	2.17	0.43
3:EB:75:MET:HA	3:EB:78:VAL:HG12	2.00	0.43
3:ED:75:MET:HA	3:ED:78:VAL:HG12	2.00	0.43
2:EE:145:THR:OG1	4:EE:501:GTP:O2G	2.27	0.43
3:EF:101:ASN:HA	3:EF:144:GLY:N	2.33	0.43
3:FB:165:ILE:HG12	3:FB:253:ARG:NH2	2.34	0.43
3:FD:165:ILE:HG12	3:FD:253:ARG:NH2	2.34	0.43
2:GA:224:TYR:HD2	4:GA:501:GTP:C6	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:165:ILE:HG12	3:GB:253:ARG:NH2	2.34	0.43
3:GD:165:ILE:HG12	3:GD:253:ARG:NH2	2.34	0.43
3:GD:291:LEU:HD11	3:GD:373:MET:CG	2.48	0.43
3:GF:332:MET:O	3:GF:336:GLN:NE2	2.45	0.43
2:HC:104:ALA:HA	2:HC:413:MET:CE	2.48	0.43
3:HD:288:VAL:HA	3:HD:291:LEU:HD12	1.99	0.43
3:HF:288:VAL:HA	3:HF:291:LEU:HD12	1.99	0.43
2:IA:271:THR:OG1	2:IA:377:MET:HB3	2.18	0.43
2:IC:104:ALA:HA	2:IC:413:MET:CE	2.48	0.43
2:JA:10:GLY:O	2:JA:14:VAL:HG22	2.18	0.43
2:JA:172:TYR:N	2:JA:204:VAL:O	2.27	0.43
2:JC:227:LEU:O	2:JC:230:LEU:HG	2.17	0.43
2:JE:314:ALA:N	2:JE:380:ASN:OD1	2.50	0.43
2:KA:401:LYS:NZ	3:KB:346:TRP:NE1	2.66	0.43
3:KB:158:ARG:NH2	3:KB:164:ARG:O	2.38	0.43
3:KB:214:PHE:O	3:KB:218:LYS:HD3	2.18	0.43
2:KC:17:GLY:O	2:KC:21:TRP:CD1	2.72	0.43
2:KC:172:TYR:N	2:KC:204:VAL:O	2.27	0.43
2:KC:280:LYS:HE3	2:KC:280:LYS:CA	2.42	0.43
2:KE:10:GLY:O	2:KE:14:VAL:HG22	2.18	0.43
3:LB:144:GLY:N	6:LB:501:GDP:O2B	2.52	0.43
2:LC:271:THR:OG1	2:LC:377:MET:HB3	2.18	0.43
3:LD:214:PHE:O	3:LD:218:LYS:HD3	2.18	0.43
3:LF:214:PHE:O	3:LF:218:LYS:HD3	2.18	0.43
2:MA:223:THR:OG1	2:MA:225:THR:OG1	2.33	0.43
3:MB:102:ASN:HB3	3:MB:105:LYS:HB2	2.00	0.43
3:MD:144:GLY:N	6:MD:501:GDP:O2B	2.52	0.43
3:NB:144:GLY:N	6:NB:501:GDP:O2B	2.52	0.43
3:NF:144:GLY:N	6:NF:501:GDP:O2B	2.52	0.43
3:NF:165:ILE:HG12	3:NF:253:ARG:NH2	2.33	0.43
1:1C:23:TRP:CZ3	1:1C:27:ILE:HD11	2.54	0.43
2:AA:397:LEU:HD12	3:AB:346:TRP:CZ3	2.53	0.43
3:AB:23:VAL:HG13	7:AB:502:TA1:H321	1.99	0.43
3:AB:144:GLY:N	6:AB:501:GDP:O2B	2.52	0.43
3:AB:165:ILE:HG12	3:AB:253:ARG:NH2	2.34	0.43
3:AB:312:TYR:HA	3:AB:381:SER:HA	2.00	0.43
2:AC:17:GLY:O	2:AC:21:TRP:CD1	2.72	0.43
2:AC:104:ALA:HA	2:AC:413:MET:CE	2.48	0.43
3:AD:101:ASN:HA	3:AD:144:GLY:N	2.33	0.43
3:AD:112:ALA:O	3:AD:115:VAL:HG12	2.18	0.43
3:AF:23:VAL:HG13	7:AF:502:TA1:H321	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:144:GLY:N	6:BB:501:GDP:O2B	2.52	0.43
2:BC:10:GLY:O	2:BC:14:VAL:HG22	2.18	0.43
3:BD:214:PHE:O	3:BD:218:LYS:HD3	2.18	0.43
2:BE:104:ALA:HA	2:BE:413:MET:CE	2.48	0.43
2:CA:10:GLY:O	2:CA:14:VAL:HG22	2.18	0.43
2:CC:10:GLY:O	2:CC:14:VAL:HG22	2.18	0.43
2:DA:10:GLY:O	2:DA:14:VAL:HG22	2.18	0.43
2:DC:17:GLY:O	2:DC:21:TRP:CD1	2.72	0.43
2:DC:222:PRO:O	3:DD:326:LYS:NZ	2.52	0.43
3:DF:214:PHE:O	3:DF:218:LYS:HD3	2.18	0.43
3:EB:143:GLY:N	3:EB:183:GLU:OE1	2.44	0.43
3:ED:101:ASN:HA	3:ED:144:GLY:N	2.33	0.43
3:ED:141:LEU:HD22	3:ED:172:MET:HB3	2.01	0.43
3:EF:12:CYS:SG	6:EF:501:GDP:H5'	2.59	0.43
3:FB:141:LEU:HD22	3:FB:172:MET:HB3	2.01	0.43
2:FC:422:ARG:CB	2:FC:425:MET:HE2	2.38	0.43
3:FF:12:CYS:SG	6:FF:501:GDP:H5'	2.59	0.43
3:FF:165:ILE:HG12	3:FF:253:ARG:NH2	2.34	0.43
2:GA:17:GLY:O	2:GA:21:TRP:CD1	2.72	0.43
2:GA:271:THR:OG1	2:GA:377:MET:HB3	2.18	0.43
2:GC:17:GLY:O	2:GC:21:TRP:CD1	2.72	0.43
2:GE:17:GLY:O	2:GE:21:TRP:CD1	2.72	0.43
2:GE:271:THR:OG1	2:GE:377:MET:HB3	2.18	0.43
2:HA:104:ALA:HA	2:HA:413:MET:CE	2.48	0.43
3:HB:286:LEU:HB3	3:HB:373:MET:SD	2.58	0.43
2:HC:224:TYR:HE1	3:HD:325:MET:HG3	1.82	0.43
3:IB:291:LEU:HD11	3:IB:373:MET:CG	2.48	0.43
2:IC:319:TYR:N	2:IC:354:GLY:O	2.48	0.43
3:ID:319:PHE:CE2	3:ID:328:VAL:HG13	2.54	0.43
2:IE:10:GLY:O	2:IE:14:VAL:HG22	2.18	0.43
2:IE:271:THR:OG1	2:IE:377:MET:HB3	2.18	0.43
3:JB:102:ASN:HB3	3:JB:105:LYS:HB2	2.00	0.43
3:JB:214:PHE:O	3:JB:218:LYS:HD3	2.18	0.43
2:JC:104:ALA:HA	2:JC:413:MET:CE	2.48	0.43
4:JC:501:GTP:PG	3:JD:254:LYS:NZ	2.91	0.43
2:JE:10:GLY:O	2:JE:14:VAL:HG22	2.18	0.43
2:JE:401:LYS:HZ3	2:JE:403:ALA:HB2	1.83	0.43
2:KA:222:PRO:HG2	3:KB:326:LYS:HE2	1.99	0.43
3:KB:403:ALA:HB2	2:KC:346:TRP:CD2	2.54	0.43
3:KD:214:PHE:O	3:KD:218:LYS:HD3	2.18	0.43
2:KE:17:GLY:O	2:KE:21:TRP:CD1	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KE:385:ALA:O	2:KE:389:ALA:N	2.52	0.43
2:LA:12:ALA:HB2	4:LA:501:GTP:C8	2.54	0.43
2:LA:271:THR:OG1	2:LA:377:MET:HB3	2.18	0.43
2:LA:385:ALA:O	2:LA:389:ALA:N	2.52	0.43
2:LC:385:ALA:O	2:LC:389:ALA:N	2.52	0.43
3:LD:144:GLY:N	6:LD:501:GDP:O2B	2.52	0.43
2:LE:385:ALA:O	2:LE:389:ALA:N	2.52	0.43
3:LF:291:LEU:HD11	3:LF:373:MET:CG	2.48	0.43
2:MA:101:ASN:H	3:MB:254:LYS:NZ	2.15	0.43
2:MA:201:ALA:HB3	2:MA:267:PHE:CD1	2.54	0.43
3:MB:286:LEU:HB3	3:MB:373:MET:SD	2.58	0.43
3:MD:102:ASN:HB3	3:MD:105:LYS:HB2	2.00	0.43
3:MD:240:THR:HA	3:MD:243:ARG:HH21	1.83	0.43
3:MD:286:LEU:HB3	3:MD:373:MET:SD	2.58	0.43
3:MF:144:GLY:N	6:MF:501:GDP:O2B	2.52	0.43
2:NA:104:ALA:HA	2:NA:413:MET:CE	2.48	0.43
2:NA:201:ALA:HB3	2:NA:267:PHE:CD1	2.54	0.43
3:NB:288:VAL:HA	3:NB:291:LEU:HD12	1.99	0.43
2:NC:201:ALA:HB3	2:NC:267:PHE:CD1	2.54	0.43
3:ND:102:ASN:HB3	3:ND:105:LYS:HB2	2.00	0.43
3:ND:165:ILE:HG12	3:ND:253:ARG:NH2	2.34	0.43
2:NE:104:ALA:HA	2:NE:413:MET:CE	2.48	0.43
1:1D:23:TRP:CZ3	1:1D:27:ILE:HD11	2.54	0.43
2:AA:17:GLY:O	2:AA:21:TRP:CD1	2.72	0.43
2:AA:104:ALA:HA	2:AA:413:MET:CE	2.48	0.43
2:AA:385:ALA:O	2:AA:389:ALA:N	2.52	0.43
3:AB:101:ASN:HA	3:AB:144:GLY:N	2.33	0.43
3:AB:240:THR:HA	3:AB:243:ARG:HH21	1.83	0.43
2:AC:385:ALA:O	2:AC:389:ALA:N	2.52	0.43
3:AD:165:ILE:HG12	3:AD:253:ARG:NH2	2.34	0.43
3:AD:240:THR:HA	3:AD:243:ARG:HH21	1.83	0.43
2:AE:10:GLY:O	2:AE:14:VAL:HG22	2.18	0.43
2:AE:17:GLY:O	2:AE:21:TRP:CD1	2.72	0.43
3:AF:165:ILE:HG12	3:AF:253:ARG:NH2	2.33	0.43
3:AF:312:TYR:HA	3:AF:381:SER:HA	2.00	0.43
2:BA:10:GLY:O	2:BA:14:VAL:HG22	2.18	0.43
2:BA:407:TRP:CZ3	3:BB:257:VAL:HA	2.53	0.43
3:BB:286:LEU:HB3	3:BB:373:MET:SD	2.58	0.43
2:BC:74:VAL:O	2:BC:78:VAL:HG23	2.19	0.43
3:BD:286:LEU:HB3	3:BD:373:MET:SD	2.58	0.43
2:BE:10:GLY:O	2:BE:14:VAL:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BF:214:PHE:O	3:BF:218:LYS:HD3	2.18	0.43
3:BF:319:PHE:CE2	3:BF:328:VAL:HG13	2.54	0.43
3:CB:100:GLY:HA2	2:CC:254:GLU:HB2	2.00	0.43
2:CC:269:LEU:N	2:CC:379:SER:O	2.47	0.43
2:CE:10:GLY:O	2:CE:14:VAL:HG22	2.18	0.43
2:CE:89:PRO:HD2	2:DE:280:LYS:NZ	2.34	0.43
2:DC:10:GLY:O	2:DC:14:VAL:HG22	2.18	0.43
2:DC:271:THR:OG1	2:DC:377:MET:HB3	2.18	0.43
2:DE:271:THR:OG1	2:DE:377:MET:HB3	2.18	0.43
3:DF:3:GLU:HG3	3:DF:50:ASN:O	2.17	0.43
2:EA:17:GLY:O	2:EA:21:TRP:CD1	2.72	0.43
3:EB:101:ASN:HA	3:EB:144:GLY:N	2.33	0.43
2:EC:10:GLY:O	2:EC:14:VAL:HG22	2.18	0.43
2:EC:422:ARG:CB	2:EC:425:MET:HE2	2.38	0.43
2:EE:10:GLY:O	2:EE:14:VAL:HG22	2.18	0.43
2:EE:105:ARG:HH12	3:EF:253:ARG:CD	2.24	0.43
3:EF:75:MET:HA	3:EF:78:VAL:HG12	2.00	0.43
3:EF:141:LEU:HD22	3:EF:172:MET:HB3	2.01	0.43
3:EF:165:ILE:HG12	3:EF:253:ARG:NH2	2.34	0.43
3:FB:102:ASN:HB3	3:FB:105:LYS:HB2	2.00	0.43
3:FD:12:CYS:SG	6:FD:501:GDP:H5'	2.59	0.43
3:FD:141:LEU:HD22	3:FD:172:MET:HB3	2.01	0.43
2:GA:21:TRP:HZ3	2:GA:52:PHE:CD1	2.31	0.43
2:GA:201:ALA:HB3	2:GA:267:PHE:CD1	2.54	0.43
3:GB:141:LEU:HD22	3:GB:172:MET:HB3	2.01	0.43
2:GC:21:TRP:HZ3	2:GC:52:PHE:CD1	2.31	0.43
2:GC:271:THR:OG1	2:GC:377:MET:HB3	2.18	0.43
2:GE:98:ASP:CG	3:GF:254:LYS:HE2	2.44	0.43
2:GE:100:ALA:O	3:GF:257:VAL:HG11	2.19	0.43
3:GF:88:ARG:HG3	3:GF:91:ASN:H	1.84	0.43
3:GF:286:LEU:HB3	3:GF:373:MET:SD	2.58	0.43
3:GF:291:LEU:HD11	3:GF:373:MET:CG	2.48	0.43
3:HB:101:ASN:HA	3:HB:144:GLY:N	2.33	0.43
3:HB:425:MET:HA	3:HB:425:MET:HE3	2.00	0.43
2:HC:12:ALA:HB2	4:HC:501:GTP:C8	2.54	0.43
2:HC:201:ALA:HB3	2:HC:267:PHE:CD1	2.54	0.43
3:HD:291:LEU:HD11	3:HD:373:MET:CG	2.48	0.43
3:HF:101:ASN:HA	3:HF:144:GLY:N	2.33	0.43
3:HF:165:ILE:HG12	3:HF:253:ARG:NH2	2.34	0.43
3:HF:214:PHE:O	3:HF:218:LYS:HD3	2.18	0.43
2:IC:201:ALA:HB3	2:IC:267:PHE:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IC:271:THR:OG1	2:IC:377:MET:HB3	2.18	0.43
2:JA:17:GLY:O	2:JA:21:TRP:CD1	2.72	0.43
2:JA:104:ALA:HA	2:JA:413:MET:CE	2.48	0.43
2:JC:171:ILE:HG21	4:JC:501:GTP:N3	2.33	0.43
2:JC:201:ALA:HB3	2:JC:267:PHE:CD1	2.54	0.43
3:JD:214:PHE:O	3:JD:218:LYS:HD3	2.18	0.43
3:JD:240:THR:HA	3:JD:243:ARG:HH21	1.83	0.43
2:JE:17:GLY:O	2:JE:21:TRP:CD1	2.72	0.43
2:JE:171:ILE:HG21	4:JE:501:GTP:N3	2.33	0.43
2:JE:201:ALA:HB3	2:JE:267:PHE:CD1	2.54	0.43
2:KA:17:GLY:O	2:KA:21:TRP:CD1	2.72	0.43
2:KA:201:ALA:HB3	2:KA:267:PHE:CD1	2.54	0.43
2:KC:201:ALA:HB3	2:KC:267:PHE:CD1	2.54	0.43
2:KC:241:SER:OG	2:KC:250:VAL:O	2.28	0.43
2:KC:385:ALA:O	2:KC:389:ALA:N	2.52	0.43
2:KE:201:ALA:HB3	2:KE:267:PHE:CD1	2.54	0.43
3:KF:214:PHE:O	3:KF:218:LYS:HD3	2.18	0.43
2:LC:74:VAL:O	2:LC:78:VAL:HG23	2.19	0.43
3:LD:158:ARG:NH2	3:LD:164:ARG:O	2.38	0.43
2:LE:10:GLY:O	2:LE:14:VAL:HG22	2.18	0.43
2:LE:74:VAL:O	2:LE:78:VAL:HG23	2.19	0.43
2:LE:201:ALA:HB3	2:LE:267:PHE:CD1	2.54	0.43
2:LE:271:THR:OG1	2:LE:377:MET:HB3	2.18	0.43
2:MA:104:ALA:HA	2:MA:413:MET:CE	2.48	0.43
3:MB:23:VAL:HG13	7:MB:502:TA1:H321	1.99	0.43
3:MB:312:TYR:HA	3:MB:381:SER:HA	2.00	0.43
2:MC:10:GLY:O	2:MC:14:VAL:HG22	2.18	0.43
2:MC:12:ALA:HB2	4:MC:501:GTP:C8	2.54	0.43
2:ME:12:ALA:HB2	4:ME:501:GTP:C8	2.54	0.43
2:ME:104:ALA:HA	2:ME:413:MET:CE	2.48	0.43
2:ME:201:ALA:HB3	2:ME:267:PHE:CD1	2.54	0.43
3:MF:214:PHE:O	3:MF:218:LYS:HD3	2.18	0.43
2:NA:385:ALA:O	2:NA:389:ALA:N	2.52	0.43
3:ND:288:VAL:HA	3:ND:291:LEU:HD12	1.99	0.43
2:NE:201:ALA:HB3	2:NE:267:PHE:CD1	2.54	0.43
3:NF:288:VAL:HA	3:NF:291:LEU:HD12	1.99	0.43
3:AB:89:PRO:HA	3:AB:92:PHE:CE2	2.54	0.43
2:AC:319:TYR:N	2:AC:354:GLY:O	2.48	0.43
3:AD:144:GLY:N	6:AD:501:GDP:O2B	2.52	0.43
2:AE:385:ALA:O	2:AE:389:ALA:N	2.52	0.43
3:AF:101:ASN:HA	3:AF:144:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:144:GLY:N	6:AF:501:GDP:O2B	2.52	0.43
2:BA:12:ALA:HB2	4:BA:501:GTP:C8	2.54	0.43
2:BA:74:VAL:O	2:BA:78:VAL:HG23	2.19	0.43
2:BA:271:THR:OG1	2:BA:377:MET:HB3	2.18	0.43
3:BB:89:PRO:HA	3:BB:92:PHE:CE2	2.54	0.43
3:BB:214:PHE:O	3:BB:218:LYS:HD3	2.18	0.43
3:BB:319:PHE:CE2	3:BB:328:VAL:HG13	2.54	0.43
3:BD:319:PHE:CE2	3:BD:328:VAL:HG13	2.54	0.43
2:BE:12:ALA:HB2	4:BE:501:GTP:C8	2.54	0.43
2:BE:74:VAL:O	2:BE:78:VAL:HG23	2.19	0.43
3:CB:286:LEU:HB3	3:CB:373:MET:SD	2.58	0.43
2:CC:74:VAL:O	2:CC:78:VAL:HG23	2.19	0.43
3:CD:319:PHE:CE2	3:CD:328:VAL:HG13	2.54	0.43
2:DA:107:HIS:HD1	2:DA:151:SER:HG	1.56	0.43
3:DB:89:PRO:HA	3:DB:92:PHE:CE2	2.54	0.43
3:DB:319:PHE:CE2	3:DB:328:VAL:HG13	2.54	0.43
3:DD:89:PRO:HA	3:DD:92:PHE:CE2	2.54	0.43
3:DF:319:PHE:CE2	3:DF:328:VAL:HG13	2.54	0.43
2:EA:201:ALA:HB3	2:EA:267:PHE:CD1	2.54	0.43
3:EB:12:CYS:SG	6:EB:501:GDP:H5'	2.59	0.43
3:EB:144:GLY:N	6:EB:501:GDP:O2B	2.52	0.43
3:EB:165:ILE:HG12	3:EB:253:ARG:NH2	2.34	0.43
3:ED:12:CYS:SG	6:ED:501:GDP:H5'	2.59	0.43
3:ED:144:GLY:N	6:ED:501:GDP:O2B	2.52	0.43
3:ED:165:ILE:HG12	3:ED:253:ARG:NH2	2.34	0.43
2:EE:422:ARG:CB	2:EE:425:MET:HE2	2.38	0.43
2:FA:171:ILE:HG21	4:FA:501:GTP:N3	2.33	0.43
2:FA:201:ALA:HB3	2:FA:267:PHE:CD1	2.54	0.43
3:FB:12:CYS:SG	6:FB:501:GDP:H5'	2.59	0.43
3:FB:75:MET:HA	3:FB:78:VAL:HG12	2.00	0.43
3:FB:214:PHE:O	3:FB:218:LYS:HD3	2.18	0.43
3:FB:242:LEU:H	3:FB:242:LEU:HD23	1.84	0.43
2:FC:201:ALA:HB3	2:FC:267:PHE:CD1	2.54	0.43
3:FF:89:PRO:HA	3:FF:92:PHE:CE2	2.54	0.43
3:FF:141:LEU:HD22	3:FF:172:MET:HB3	2.01	0.43
3:GB:54:ASN:OD1	3:GB:64:ARG:NH1	2.52	0.43
3:GB:332:MET:O	3:GB:336:GLN:NE2	2.45	0.43
2:GE:201:ALA:HB3	2:GE:267:PHE:CD1	2.54	0.43
3:GF:12:CYS:SG	6:GF:501:GDP:H5'	2.59	0.43
3:GF:102:ASN:HB3	3:GF:105:LYS:HB2	2.00	0.43
3:GF:165:ILE:HG12	3:GF:253:ARG:NH2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HA:12:ALA:HB2	4:HA:501:GTP:C8	2.54	0.43
2:HA:201:ALA:HB3	2:HA:267:PHE:CD1	2.54	0.43
3:HB:165:ILE:HG12	3:HB:253:ARG:NH2	2.34	0.43
3:HD:54:ASN:OD1	3:HD:64:ARG:NH1	2.52	0.43
3:HD:101:ASN:HA	3:HD:144:GLY:N	2.33	0.43
3:HD:165:ILE:HG12	3:HD:253:ARG:NH2	2.34	0.43
3:HD:286:LEU:HB3	3:HD:373:MET:SD	2.58	0.43
2:HE:12:ALA:HB2	4:HE:501:GTP:C8	2.54	0.43
2:HE:201:ALA:HB3	2:HE:267:PHE:CD1	2.54	0.43
3:HF:291:LEU:HD11	3:HF:373:MET:CG	2.48	0.43
2:IA:201:ALA:HB3	2:IA:267:PHE:CD1	2.54	0.43
3:IB:319:PHE:CE2	3:IB:328:VAL:HG13	2.54	0.43
2:IC:10:GLY:O	2:IC:14:VAL:HG22	2.18	0.43
2:IC:17:GLY:O	2:IC:21:TRP:CD1	2.72	0.43
3:ID:54:ASN:OD1	3:ID:64:ARG:NH1	2.52	0.43
2:IE:201:ALA:HB3	2:IE:267:PHE:CD1	2.54	0.43
3:IF:54:ASN:OD1	3:IF:64:ARG:NH1	2.52	0.43
3:IF:319:PHE:CE2	3:IF:328:VAL:HG13	2.54	0.43
2:JA:171:ILE:HG21	4:JA:501:GTP:N3	2.33	0.43
2:JA:201:ALA:HB3	2:JA:267:PHE:CD1	2.54	0.43
3:JB:89:PRO:HA	3:JB:92:PHE:CE2	2.54	0.43
2:JC:17:GLY:O	2:JC:21:TRP:CD1	2.72	0.43
3:JD:89:PRO:HA	3:JD:92:PHE:CE2	2.54	0.43
2:JE:12:ALA:HB2	4:JE:501:GTP:C8	2.54	0.43
2:JE:104:ALA:HA	2:JE:413:MET:CE	2.48	0.43
2:JE:406:HIS:HE1	3:JF:261:PRO:O	2.02	0.43
3:JF:89:PRO:HA	3:JF:92:PHE:CE2	2.54	0.43
3:JF:165:ILE:HG12	3:JF:253:ARG:NH2	2.34	0.43
2:KA:10:GLY:O	2:KA:14:VAL:HG22	2.18	0.43
2:KA:385:ALA:O	2:KA:389:ALA:N	2.52	0.43
3:KB:165:ILE:HG12	3:KB:253:ARG:NH2	2.34	0.43
2:KE:104:ALA:HA	2:KE:413:MET:CE	2.48	0.43
2:LA:10:GLY:O	2:LA:14:VAL:HG22	2.18	0.43
2:LA:74:VAL:O	2:LA:78:VAL:HG23	2.19	0.43
2:LA:201:ALA:HB3	2:LA:267:PHE:CD1	2.54	0.43
2:LA:221:ARG:NE	3:LB:324:SER:HB3	2.34	0.43
2:LC:10:GLY:O	2:LC:14:VAL:HG22	2.18	0.43
2:LC:12:ALA:HB2	4:LC:501:GTP:C8	2.54	0.43
2:LC:85:GLN:OE1	2:LC:85:GLN:N	2.37	0.43
2:LC:201:ALA:HB3	2:LC:267:PHE:CD1	2.54	0.43
2:LE:12:ALA:HB2	4:LE:501:GTP:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LE:17:GLY:O	2:LE:21:TRP:CD1	2.72	0.43
3:LF:89:PRO:HA	3:LF:92:PHE:CE2	2.54	0.43
3:LF:144:GLY:N	6:LF:501:GDP:O2B	2.52	0.43
2:MA:12:ALA:HB2	4:MA:501:GTP:C8	2.54	0.43
2:MC:104:ALA:HA	2:MC:413:MET:CE	2.48	0.43
2:MC:201:ALA:HB3	2:MC:267:PHE:CD1	2.54	0.43
2:MC:223:THR:OG1	2:MC:225:THR:OG1	2.33	0.43
2:ME:10:GLY:O	2:ME:14:VAL:HG22	2.18	0.43
2:ME:223:THR:OG1	2:ME:225:THR:OG1	2.33	0.43
2:ME:280:LYS:HE3	2:ME:280:LYS:CA	2.42	0.43
3:MF:165:ILE:HG12	3:MF:253:ARG:NH2	2.34	0.43
2:NC:10:GLY:O	2:NC:14:VAL:HG22	2.18	0.43
2:NC:104:ALA:HA	2:NC:413:MET:CE	2.48	0.43
2:NC:385:ALA:O	2:NC:389:ALA:N	2.52	0.43
3:ND:319:PHE:CE2	3:ND:328:VAL:HG13	2.54	0.43
2:NE:385:ALA:O	2:NE:389:ALA:N	2.52	0.43
1:1A:23:TRP:CZ3	1:1A:27:ILE:HD11	2.54	0.43
1:1C:61:HIS:NE2	2:AE:310:GLY:O	2.52	0.43
2:AA:10:GLY:O	2:AA:14:VAL:HG22	2.18	0.43
2:AC:10:GLY:O	2:AC:14:VAL:HG22	2.18	0.43
2:AC:201:ALA:HB3	2:AC:267:PHE:CD1	2.54	0.43
2:AC:407:TRP:CH2	3:AD:260:VAL:O	2.72	0.43
3:AD:89:PRO:HA	3:AD:92:PHE:CE2	2.54	0.43
3:AD:312:TYR:HA	3:AD:381:SER:HA	2.00	0.43
3:AD:319:PHE:CE2	3:AD:328:VAL:HG13	2.54	0.43
2:AE:221:ARG:NH2	3:AF:324:SER:H	2.16	0.43
2:BA:17:GLY:O	2:BA:21:TRP:CD1	2.72	0.43
2:BA:400:ALA:HB3	3:BB:346:TRP:CH2	2.49	0.43
3:BB:88:ARG:HG3	3:BB:91:ASN:H	1.84	0.43
3:BB:165:ILE:HG12	3:BB:253:ARG:NH2	2.33	0.43
2:BC:12:ALA:HB2	4:BC:501:GTP:C8	2.54	0.43
2:BC:201:ALA:HB3	2:BC:267:PHE:CD1	2.54	0.43
2:BC:271:THR:OG1	2:BC:377:MET:HB3	2.18	0.43
3:BD:88:ARG:HG3	3:BD:91:ASN:H	1.84	0.43
3:BD:89:PRO:HA	3:BD:92:PHE:CE2	2.54	0.43
3:BD:112:ALA:O	3:BD:115:VAL:HG12	2.18	0.43
3:BF:54:ASN:OD1	3:BF:64:ARG:NH1	2.52	0.43
3:BF:112:ALA:O	3:BF:115:VAL:HG12	2.18	0.43
2:CA:74:VAL:O	2:CA:78:VAL:HG23	2.19	0.43
3:CB:89:PRO:HA	3:CB:92:PHE:CE2	2.54	0.43
3:CB:144:GLY:N	6:CB:501:GDP:O2B	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:319:PHE:CE2	3:CB:328:VAL:HG13	2.54	0.43
3:CD:60:LYS:HE3	3:DD:283:TYR:HA	2.00	0.43
3:CD:88:ARG:HG3	3:CD:91:ASN:H	1.84	0.43
2:CE:74:VAL:O	2:CE:78:VAL:HG23	2.19	0.43
3:CF:286:LEU:HB3	3:CF:373:MET:SD	2.58	0.43
3:CF:319:PHE:CE2	3:CF:328:VAL:HG13	2.54	0.43
2:DA:271:THR:OG1	2:DA:377:MET:HB3	2.18	0.43
3:DB:12:CYS:SG	6:DB:501:GDP:H5'	2.59	0.43
3:DB:141:LEU:HD22	3:DB:172:MET:HB3	2.01	0.43
3:DD:12:CYS:SG	6:DD:501:GDP:H5'	2.59	0.43
3:DD:214:PHE:O	3:DD:218:LYS:HD3	2.18	0.43
3:DD:319:PHE:CE2	3:DD:328:VAL:HG13	2.54	0.43
2:DE:10:GLY:O	2:DE:14:VAL:HG22	2.18	0.43
3:DF:143:GLY:N	3:DF:183:GLU:OE1	2.45	0.43
3:DF:144:GLY:N	6:DF:501:GDP:O2B	2.52	0.43
3:EB:141:LEU:HD22	3:EB:172:MET:HB3	2.01	0.43
3:EB:242:LEU:HD23	3:EB:242:LEU:H	1.84	0.43
3:EB:319:PHE:CE2	3:EB:328:VAL:HG13	2.54	0.43
3:EB:332:MET:O	3:EB:336:GLN:NE2	2.45	0.43
3:ED:332:MET:O	3:ED:336:GLN:NE2	2.45	0.43
3:EF:242:LEU:H	3:EF:242:LEU:HD23	1.84	0.43
2:FA:422:ARG:CB	2:FA:425:MET:HE2	2.38	0.43
3:FB:425:MET:HA	3:FB:425:MET:HE3	2.00	0.43
3:FD:75:MET:HA	3:FD:78:VAL:HG12	2.00	0.43
3:FD:214:PHE:O	3:FD:218:LYS:HD3	2.18	0.43
3:FD:242:LEU:HD23	3:FD:242:LEU:H	1.84	0.43
3:FD:251:ASP:OD1	3:FD:254:LYS:HG2	2.19	0.43
3:FD:425:MET:HA	3:FD:425:MET:HE3	2.00	0.43
2:FE:201:ALA:HB3	2:FE:267:PHE:CD1	2.54	0.43
3:FF:242:LEU:HD23	3:FF:242:LEU:H	1.84	0.43
3:GB:88:ARG:HG3	3:GB:91:ASN:H	1.84	0.43
3:GB:242:LEU:HD23	3:GB:242:LEU:H	1.84	0.43
3:GB:425:MET:HA	3:GB:425:MET:HE3	2.01	0.43
2:GC:201:ALA:HB3	2:GC:267:PHE:CD1	2.54	0.43
3:GD:88:ARG:HG3	3:GD:91:ASN:H	1.84	0.43
3:GD:332:MET:O	3:GD:336:GLN:NE2	2.45	0.43
3:GD:425:MET:HA	3:GD:425:MET:HE3	2.01	0.43
2:GE:21:TRP:HZ3	2:GE:52:PHE:CD1	2.31	0.43
3:GF:242:LEU:HD23	3:GF:242:LEU:H	1.84	0.43
3:GF:425:MET:HA	3:GF:425:MET:HE3	2.00	0.43
2:HA:232:SER:OG	2:HA:233:GLN:OE1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HB:54:ASN:OD1	3:HB:64:ARG:NH1	2.52	0.43
3:HB:101:ASN:ND2	2:HC:254:GLU:OE2	2.50	0.43
3:HB:112:ALA:O	3:HB:115:VAL:HG12	2.18	0.43
3:HF:54:ASN:OD1	3:HF:64:ARG:NH1	2.52	0.43
3:HF:286:LEU:HB3	3:HF:373:MET:SD	2.58	0.43
2:IA:10:GLY:O	2:IA:14:VAL:HG22	2.18	0.43
3:IB:54:ASN:OD1	3:IB:64:ARG:NH1	2.52	0.43
3:IB:88:ARG:HG3	3:IB:91:ASN:H	1.84	0.43
3:IB:101:ASN:HA	3:IB:144:GLY:N	2.33	0.43
3:IB:214:PHE:O	3:IB:218:LYS:HD3	2.18	0.43
3:IB:312:TYR:HA	3:IB:381:SER:HA	2.00	0.43
2:IC:222:PRO:CD	3:ID:326:LYS:HZ1	2.32	0.43
3:ID:88:ARG:HG3	3:ID:91:ASN:H	1.84	0.43
3:ID:214:PHE:O	3:ID:218:LYS:HD3	2.18	0.43
3:ID:291:LEU:HD11	3:ID:373:MET:CG	2.48	0.43
2:IE:319:TYR:N	2:IE:354:GLY:O	2.48	0.43
2:IE:401:LYS:CE	3:IF:346:TRP:HE1	2.31	0.43
3:IF:88:ARG:HG3	3:IF:91:ASN:H	1.84	0.43
2:JA:12:ALA:HB2	4:JA:501:GTP:C8	2.54	0.43
2:JA:85:GLN:OE1	2:JA:85:GLN:N	2.37	0.43
3:JB:291:LEU:HD11	3:JB:373:MET:CG	2.48	0.43
2:JC:12:ALA:HB2	4:JC:501:GTP:C8	2.54	0.43
3:JD:102:ASN:HB3	3:JD:105:LYS:HB2	1.99	0.43
3:JD:172:MET:HE3	3:JD:387:LEU:HD13	2.01	0.43
3:JF:54:ASN:OD1	3:JF:64:ARG:NH1	2.52	0.43
3:JF:112:ALA:O	3:JF:115:VAL:HG12	2.18	0.43
3:JF:172:MET:HE3	3:JF:387:LEU:HD13	2.01	0.43
3:JF:214:PHE:O	3:JF:218:LYS:HD3	2.18	0.43
2:KA:222:PRO:HG2	3:KB:326:LYS:CE	2.49	0.43
2:KA:224:TYR:HD2	4:KA:501:GTP:C6	2.35	0.43
3:KB:12:CYS:SG	6:KB:501:GDP:H5'	2.59	0.43
3:KB:88:ARG:HG3	3:KB:91:ASN:H	1.84	0.43
2:KC:104:ALA:HA	2:KC:413:MET:CE	2.48	0.43
3:KD:89:PRO:HA	3:KD:92:PHE:CE2	2.54	0.43
3:KD:144:GLY:N	6:KD:501:GDP:O2B	2.52	0.43
3:KD:165:ILE:HG12	3:KD:253:ARG:NH2	2.34	0.43
2:KE:172:TYR:N	2:KE:204:VAL:O	2.27	0.43
3:KF:89:PRO:HA	3:KF:92:PHE:CE2	2.54	0.43
3:KF:165:ILE:HG12	3:KF:253:ARG:NH2	2.33	0.43
2:LC:17:GLY:O	2:LC:21:TRP:CD1	2.72	0.43
3:LD:291:LEU:HD11	3:LD:373:MET:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MA:10:GLY:O	2:MA:14:VAL:HG22	2.18	0.43
3:MB:101:ASN:HA	3:MB:144:GLY:N	2.33	0.43
3:MB:401:ARG:NH2	2:MC:345:ASP:OD2	2.52	0.43
2:MC:280:LYS:HE3	2:MC:280:LYS:CA	2.42	0.43
2:ME:271:THR:OG1	2:ME:377:MET:HB3	2.18	0.43
3:MF:240:THR:HA	3:MF:243:ARG:HH21	1.83	0.43
2:NA:10:GLY:O	2:NA:14:VAL:HG22	2.18	0.43
2:NA:224:TYR:HD1	3:NB:325:MET:HE2	1.80	0.43
3:NB:319:PHE:CE2	3:NB:328:VAL:HG13	2.54	0.43
3:NF:319:PHE:CE2	3:NF:328:VAL:HG13	2.54	0.43
1:1B:23:TRP:CZ3	1:1B:27:ILE:HD11	2.54	0.43
2:AA:133:GLN:NE2	2:AA:251:ASP:OD1	2.52	0.43
2:AC:133:GLN:NE2	2:AC:251:ASP:OD1	2.52	0.43
2:AC:280:LYS:HE3	2:AC:280:LYS:CA	2.42	0.43
3:AD:88:ARG:HH12	3:BD:283:TYR:HB2	1.84	0.43
2:AE:201:ALA:HB3	2:AE:267:PHE:CD1	2.54	0.43
3:AF:319:PHE:CE2	3:AF:328:VAL:HG13	2.54	0.43
3:BB:112:ALA:O	3:BB:115:VAL:HG12	2.18	0.43
2:BC:17:GLY:O	2:BC:21:TRP:CD1	2.72	0.43
3:BD:54:ASN:OD1	3:BD:64:ARG:NH1	2.52	0.43
2:BE:17:GLY:O	2:BE:21:TRP:CD1	2.72	0.43
2:BE:201:ALA:HB3	2:BE:267:PHE:CD1	2.54	0.43
3:BF:88:ARG:HG3	3:BF:91:ASN:H	1.84	0.43
3:BF:89:PRO:HA	3:BF:92:PHE:CE2	2.54	0.43
3:CB:54:ASN:OD1	3:CB:64:ARG:NH1	2.52	0.43
3:CB:88:ARG:HG3	3:CB:91:ASN:H	1.84	0.43
3:CB:214:PHE:O	3:CB:218:LYS:HD3	2.18	0.43
3:CB:251:ASP:OD1	3:CB:254:LYS:HG2	2.19	0.43
3:CD:286:LEU:HB3	3:CD:373:MET:SD	2.58	0.43
2:CE:17:GLY:O	2:CE:21:TRP:CD1	2.72	0.43
3:CF:6:HIS:ND1	3:CF:136:GLN:HG2	2.34	0.43
3:CF:88:ARG:HG3	3:CF:91:ASN:H	1.84	0.43
3:CF:89:PRO:HA	3:CF:92:PHE:CE2	2.54	0.43
3:CF:251:ASP:OD1	3:CF:254:LYS:HG2	2.19	0.43
2:DA:88:HIS:O	2:DA:91:GLN:HG2	2.19	0.43
3:DB:144:GLY:N	6:DB:501:GDP:O2B	2.52	0.43
3:DB:214:PHE:O	3:DB:218:LYS:HD3	2.18	0.43
3:DB:240:THR:HA	3:DB:243:ARG:HH21	1.83	0.43
3:DD:144:GLY:N	6:DD:501:GDP:O2B	2.52	0.43
3:DD:240:THR:HA	3:DD:243:ARG:HH21	1.83	0.43
2:DE:422:ARG:CB	2:DE:425:MET:HE2	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:12:CYS:SG	6:DF:501:GDP:H5'	2.59	0.43
3:DF:89:PRO:HA	3:DF:92:PHE:CE2	2.54	0.43
2:EA:133:GLN:NE2	2:EA:251:ASP:OD1	2.52	0.43
2:EC:133:GLN:NE2	2:EC:251:ASP:OD1	2.52	0.43
3:ED:89:PRO:HA	3:ED:92:PHE:CE2	2.54	0.43
3:ED:242:LEU:HD23	3:ED:242:LEU:H	1.84	0.43
2:EE:17:GLY:O	2:EE:21:TRP:CD1	2.72	0.43
2:EE:133:GLN:NE2	2:EE:251:ASP:OD1	2.52	0.43
2:EE:201:ALA:HB3	2:EE:267:PHE:CD1	2.54	0.43
3:EF:89:PRO:HA	3:EF:92:PHE:CE2	2.54	0.43
3:FB:89:PRO:HA	3:FB:92:PHE:CE2	2.54	0.43
3:FB:112:ALA:O	3:FB:115:VAL:HG12	2.18	0.43
2:FC:171:ILE:HG21	4:FC:501:GTP:N3	2.33	0.43
3:FD:89:PRO:HA	3:FD:92:PHE:CE2	2.54	0.43
3:FD:112:ALA:O	3:FD:115:VAL:HG12	2.18	0.43
2:FE:171:ILE:HG21	4:FE:501:GTP:N3	2.33	0.43
3:FF:75:MET:HA	3:FF:78:VAL:HG12	2.00	0.43
3:FF:112:ALA:O	3:FF:115:VAL:HG12	2.18	0.43
3:FF:251:ASP:OD1	3:FF:254:LYS:HG2	2.19	0.43
3:FF:425:MET:HA	3:FF:425:MET:HE3	2.01	0.43
2:GA:10:GLY:O	2:GA:14:VAL:HG22	2.18	0.43
3:GB:251:ASP:OD1	3:GB:254:LYS:HG2	2.19	0.43
3:GD:54:ASN:OD1	3:GD:64:ARG:NH1	2.52	0.43
3:GD:102:ASN:HB3	3:GD:105:LYS:HB2	1.99	0.43
3:GD:141:LEU:HD22	3:GD:172:MET:HB3	2.01	0.43
3:GD:242:LEU:H	3:GD:242:LEU:HD23	1.84	0.43
3:GD:286:LEU:HB3	3:GD:373:MET:SD	2.58	0.43
3:GF:54:ASN:OD1	3:GF:64:ARG:NH1	2.52	0.43
3:GF:89:PRO:HA	3:GF:92:PHE:CE2	2.54	0.43
3:GF:141:LEU:HD22	3:GF:172:MET:HB3	2.01	0.43
3:GF:319:PHE:CE2	3:GF:328:VAL:HG13	2.54	0.43
2:HA:17:GLY:O	2:HA:21:TRP:CD1	2.72	0.43
3:HB:214:PHE:O	3:HB:218:LYS:HD3	2.18	0.43
3:HD:319:PHE:CE2	3:HD:328:VAL:HG13	2.54	0.43
3:HD:425:MET:HA	3:HD:425:MET:HE3	2.00	0.43
3:HF:112:ALA:O	3:HF:115:VAL:HG12	2.18	0.43
3:HF:425:MET:HA	3:HF:425:MET:HE3	2.01	0.43
2:IA:17:GLY:O	2:IA:21:TRP:CD1	2.72	0.43
2:IA:319:TYR:N	2:IA:354:GLY:O	2.48	0.43
2:IC:385:ALA:O	2:IC:389:ALA:N	2.52	0.43
3:ID:101:ASN:HA	3:ID:144:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:407:TRP:HZ2	2:IE:256:GLN:OE1	2.02	0.43
2:IE:17:GLY:O	2:IE:21:TRP:CD1	2.72	0.43
3:IF:89:PRO:HA	3:IF:92:PHE:CE2	2.54	0.43
2:JA:133:GLN:NE2	2:JA:251:ASP:OD1	2.52	0.43
3:JB:172:MET:HE3	3:JB:387:LEU:HD13	2.01	0.43
2:JC:85:GLN:OE1	2:JC:85:GLN:N	2.37	0.43
3:JD:165:ILE:HG12	3:JD:253:ARG:NH2	2.34	0.43
2:KA:12:ALA:HB2	4:KA:501:GTP:C8	2.54	0.43
2:KA:104:ALA:HA	2:KA:413:MET:CE	2.48	0.43
2:KA:394:LYS:CD	3:KB:348:PRO:HG3	2.45	0.43
2:KC:12:ALA:HB2	4:KC:501:GTP:C8	2.54	0.43
2:KC:314:ALA:N	2:KC:380:ASN:OD1	2.50	0.43
3:KD:88:ARG:HG3	3:KD:91:ASN:H	1.84	0.43
2:KE:224:TYR:HD2	4:KE:501:GTP:C6	2.35	0.43
2:KE:314:ALA:N	2:KE:380:ASN:OD1	2.50	0.43
3:KF:88:ARG:HG3	3:KF:91:ASN:H	1.84	0.43
3:KF:102:ASN:HB3	3:KF:105:LYS:HB2	2.00	0.43
3:KF:144:GLY:N	6:KF:501:GDP:O2B	2.52	0.43
2:LA:104:ALA:HA	2:LA:413:MET:CE	2.48	0.43
3:LB:12:CYS:SG	6:LB:501:GDP:H5'	2.59	0.43
3:LB:89:PRO:HA	3:LB:92:PHE:CE2	2.54	0.43
3:LB:172:MET:HE3	3:LB:387:LEU:HD13	2.01	0.43
3:LB:291:LEU:HD11	3:LB:373:MET:CG	2.48	0.43
2:LC:133:GLN:NE2	2:LC:251:ASP:OD1	2.52	0.43
3:LD:89:PRO:HA	3:LD:92:PHE:CE2	2.54	0.43
3:LD:319:PHE:CE2	3:LD:328:VAL:HG13	2.54	0.43
3:LF:145:THR:HG22	3:LF:149:MET:HE2	2.01	0.43
2:MA:74:VAL:O	2:MA:78:VAL:HG23	2.19	0.43
2:MA:271:THR:OG1	2:MA:377:MET:HB3	2.18	0.43
3:MB:88:ARG:HG3	3:MB:91:ASN:H	1.84	0.43
3:MB:89:PRO:HA	3:MB:92:PHE:CE2	2.54	0.43
2:MC:74:VAL:O	2:MC:78:VAL:HG23	2.19	0.43
2:MC:271:THR:OG1	2:MC:377:MET:HB3	2.18	0.43
3:MD:88:ARG:HG3	3:MD:91:ASN:H	1.84	0.43
3:MD:89:PRO:HA	3:MD:92:PHE:CE2	2.54	0.43
2:ME:74:VAL:O	2:ME:78:VAL:HG23	2.19	0.43
2:NA:148:GLY:O	2:NA:151:SER:OG	2.37	0.43
3:NB:89:PRO:HA	3:NB:92:PHE:CE2	2.54	0.43
3:NB:102:ASN:HB3	3:NB:105:LYS:HB2	2.00	0.43
3:NB:165:ILE:HG12	3:NB:253:ARG:NH2	2.34	0.43
2:NC:400:ALA:HB3	3:ND:346:TRP:CH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:10:GLY:O	2:NE:14:VAL:HG22	2.18	0.43
2:NE:148:GLY:O	2:NE:151:SER:OG	2.37	0.43
2:AA:88:HIS:O	2:AA:91:GLN:HG2	2.19	0.43
2:AA:201:ALA:HB3	2:AA:267:PHE:CD1	2.54	0.43
3:AB:319:PHE:CE2	3:AB:328:VAL:HG13	2.54	0.43
2:AC:148:GLY:O	2:AC:151:SER:OG	2.37	0.43
3:AD:54:ASN:OD1	3:AD:64:ARG:NH1	2.52	0.43
2:AE:88:HIS:O	2:AE:91:GLN:HG2	2.19	0.43
3:AF:54:ASN:OD1	3:AF:64:ARG:NH1	2.52	0.43
3:BB:6:HIS:ND1	3:BB:136:GLN:HG2	2.34	0.43
3:BB:54:ASN:OD1	3:BB:64:ARG:NH1	2.52	0.43
3:BD:6:HIS:ND1	3:BD:136:GLN:HG2	2.34	0.43
3:BD:251:ASP:OD1	3:BD:254:LYS:HG2	2.19	0.43
2:BE:271:THR:OG1	2:BE:377:MET:HB3	2.18	0.43
3:CB:6:HIS:ND1	3:CB:136:GLN:HG2	2.34	0.43
2:CC:17:GLY:O	2:CC:21:TRP:CD1	2.72	0.43
2:CC:107:HIS:ND1	2:CC:151:SER:OG	2.43	0.43
2:CC:148:GLY:O	2:CC:151:SER:OG	2.37	0.43
3:CD:6:HIS:ND1	3:CD:136:GLN:HG2	2.34	0.43
3:CD:54:ASN:OD1	3:CD:64:ARG:NH1	2.52	0.43
3:CD:144:GLY:N	6:CD:501:GDP:O2B	2.52	0.43
3:CD:165:ILE:HG12	3:CD:253:ARG:NH2	2.34	0.43
3:CD:214:PHE:O	3:CD:218:LYS:HD3	2.18	0.43
3:CD:251:ASP:OD1	3:CD:254:LYS:HG2	2.19	0.43
2:CE:148:GLY:O	2:CE:151:SER:OG	2.37	0.43
2:CE:201:ALA:HB3	2:CE:267:PHE:CD1	2.54	0.43
3:CF:54:ASN:OD1	3:CF:64:ARG:NH1	2.52	0.43
3:CF:144:GLY:N	6:CF:501:GDP:O2B	2.52	0.43
2:DA:133:GLN:NE2	2:DA:251:ASP:OD1	2.52	0.43
3:DB:101:ASN:HA	3:DB:144:GLY:N	2.33	0.43
3:DB:112:ALA:O	3:DB:115:VAL:HG12	2.18	0.43
2:DC:88:HIS:O	2:DC:91:GLN:HG2	2.19	0.43
2:DC:133:GLN:NE2	2:DC:251:ASP:OD1	2.52	0.43
2:DC:422:ARG:CB	2:DC:425:MET:HE2	2.38	0.43
3:DD:141:LEU:HD22	3:DD:172:MET:HB3	2.01	0.43
3:DD:259:MET:HG3	3:DD:268:PHE:CE2	2.54	0.43
2:DE:88:HIS:O	2:DE:91:GLN:HG2	2.19	0.43
2:DE:133:GLN:NE2	2:DE:251:ASP:OD1	2.52	0.43
3:DF:6:HIS:ND1	3:DF:136:GLN:HG2	2.34	0.43
3:DF:101:ASN:HA	3:DF:144:GLY:N	2.33	0.43
3:DF:141:LEU:HD22	3:DF:172:MET:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DF:172:MET:HE3	3:DF:387:LEU:HD13	2.01	0.43
2:EA:85:GLN:OE1	2:EA:85:GLN:N	2.37	0.43
2:EA:145:THR:OG1	4:EA:501:GTP:O2G	2.27	0.43
3:EB:88:ARG:HG3	3:EB:91:ASN:H	1.84	0.43
3:EB:172:MET:HE3	3:EB:387:LEU:HD13	2.01	0.43
2:EC:12:ALA:HB2	4:EC:501:GTP:C8	2.54	0.43
2:EC:17:GLY:O	2:EC:21:TRP:CD1	2.72	0.43
2:EC:201:ALA:HB3	2:EC:267:PHE:CD1	2.54	0.43
3:ED:319:PHE:CE2	3:ED:328:VAL:HG13	2.54	0.43
3:EF:88:ARG:HG3	3:EF:91:ASN:H	1.84	0.43
3:EF:144:GLY:N	6:EF:501:GDP:O2B	2.52	0.43
2:FA:88:HIS:O	2:FA:91:GLN:HG2	2.19	0.43
3:FB:251:ASP:OD1	3:FB:254:LYS:HG2	2.19	0.43
3:FF:172:MET:HE3	3:FF:387:LEU:HD13	2.01	0.43
3:FF:214:PHE:O	3:FF:218:LYS:HD3	2.18	0.43
3:GB:286:LEU:HB3	3:GB:373:MET:SD	2.58	0.43
2:GC:10:GLY:O	2:GC:14:VAL:HG22	2.18	0.43
3:GD:12:CYS:SG	6:GD:501:GDP:H5'	2.59	0.43
3:GD:319:PHE:CE2	3:GD:328:VAL:HG13	2.54	0.43
2:GE:10:GLY:O	2:GE:14:VAL:HG22	2.18	0.43
3:HB:242:LEU:HD23	3:HB:242:LEU:H	1.84	0.43
2:HC:17:GLY:O	2:HC:21:TRP:CD1	2.72	0.43
3:HD:112:ALA:O	3:HD:115:VAL:HG12	2.18	0.43
3:HD:214:PHE:O	3:HD:218:LYS:HD3	2.18	0.43
3:HF:102:ASN:HB3	3:HF:105:LYS:HB2	1.99	0.43
3:HF:172:MET:HE3	3:HF:387:LEU:HD13	2.01	0.43
2:IA:385:ALA:O	2:IA:389:ALA:N	2.52	0.43
3:IB:89:PRO:HA	3:IB:92:PHE:CE2	2.54	0.43
3:ID:89:PRO:HA	3:ID:92:PHE:CE2	2.54	0.43
3:ID:144:GLY:N	6:ID:501:GDP:O2B	2.52	0.43
3:ID:165:ILE:HG12	3:ID:253:ARG:NH2	2.33	0.43
3:ID:312:TYR:HA	3:ID:381:SER:HA	2.00	0.43
2:IE:133:GLN:NE2	2:IE:251:ASP:OD1	2.52	0.43
2:IE:385:ALA:O	2:IE:389:ALA:N	2.52	0.43
3:IF:102:ASN:HB3	3:IF:105:LYS:HB2	1.99	0.43
3:IF:144:GLY:N	6:IF:501:GDP:O2B	2.52	0.43
3:IF:165:ILE:HG12	3:IF:253:ARG:NH2	2.34	0.43
3:IF:291:LEU:HD11	3:IF:373:MET:CG	2.48	0.43
3:IF:312:TYR:HA	3:IF:381:SER:HA	2.00	0.43
3:JB:69:ASP:OD2	3:JB:74:THR:OG1	2.18	0.43
3:JB:165:ILE:HG12	3:JB:253:ARG:NH2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:240:THR:HA	3:JB:243:ARG:HH21	1.83	0.43
3:JB:319:PHE:CE2	3:JB:328:VAL:HG13	2.54	0.43
7:JB:502:TA1:H472	7:JB:502:TA1:H021	1.88	0.43
2:JC:133:GLN:NE2	2:JC:251:ASP:OD1	2.52	0.43
3:JD:54:ASN:OD1	3:JD:64:ARG:NH1	2.52	0.43
3:JD:112:ALA:O	3:JD:115:VAL:HG12	2.18	0.43
3:JD:291:LEU:HD11	3:JD:373:MET:CG	2.48	0.43
2:JE:133:GLN:NE2	2:JE:251:ASP:OD1	2.52	0.43
3:JF:102:ASN:HB3	3:JF:105:LYS:HB2	2.00	0.43
3:JF:291:LEU:HD11	3:JF:373:MET:CG	2.48	0.43
2:KA:74:VAL:O	2:KA:78:VAL:HG23	2.19	0.43
2:KC:224:TYR:HD2	4:KC:501:GTP:C6	2.35	0.43
3:KD:102:ASN:HB3	3:KD:105:LYS:HB2	2.00	0.43
2:KE:12:ALA:HB2	4:KE:501:GTP:C8	2.54	0.43
2:KE:394:LYS:NZ	3:KF:348:PRO:HG3	2.33	0.43
2:LA:17:GLY:O	2:LA:21:TRP:CD1	2.72	0.43
2:LA:133:GLN:NE2	2:LA:251:ASP:OD1	2.52	0.43
3:LB:145:THR:HG22	3:LB:149:MET:HE2	2.01	0.43
3:LB:158:ARG:NH2	3:LB:164:ARG:O	2.38	0.43
3:LB:251:ASP:OD1	3:LB:254:LYS:HG2	2.19	0.43
3:LB:319:PHE:CE2	3:LB:328:VAL:HG13	2.54	0.43
2:LC:104:ALA:HA	2:LC:413:MET:CE	2.48	0.43
3:LD:12:CYS:SG	6:LD:501:GDP:H5'	2.59	0.43
3:LD:251:ASP:OD1	3:LD:254:LYS:HG2	2.19	0.43
2:LE:133:GLN:NE2	2:LE:251:ASP:OD1	2.52	0.43
3:LF:12:CYS:SG	6:LF:501:GDP:H5'	2.59	0.43
3:LF:102:ASN:HB3	3:LF:105:LYS:HB2	2.00	0.43
3:LF:251:ASP:OD1	3:LF:254:LYS:HG2	2.19	0.43
2:MA:280:LYS:HE3	2:MA:280:LYS:CA	2.42	0.43
3:MB:165:ILE:HG12	3:MB:253:ARG:NH2	2.34	0.43
3:MB:251:ASP:OD1	3:MB:254:LYS:HG2	2.19	0.43
2:MC:88:HIS:O	2:MC:91:GLN:HG2	2.19	0.43
3:MD:165:ILE:HG12	3:MD:253:ARG:NH2	2.34	0.43
3:MD:319:PHE:CE2	3:MD:328:VAL:HG13	2.54	0.43
2:ME:17:GLY:O	2:ME:21:TRP:CD1	2.72	0.43
2:ME:88:HIS:O	2:ME:91:GLN:HG2	2.19	0.43
3:MF:88:ARG:HG3	3:MF:91:ASN:H	1.84	0.43
3:NB:6:HIS:ND1	3:NB:136:GLN:HG2	2.34	0.43
3:NB:312:TYR:HA	3:NB:381:SER:HA	2.00	0.43
2:NC:148:GLY:O	2:NC:151:SER:OG	2.37	0.43
3:ND:6:HIS:ND1	3:ND:136:GLN:HG2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NE:17:GLY:O	2:NE:21:TRP:CD1	2.72	0.43
2:AA:148:GLY:O	2:AA:151:SER:OG	2.37	0.43
3:AB:12:CYS:SG	6:AB:501:GDP:H5'	2.59	0.43
3:AB:222:PRO:CD	2:AC:326:LYS:HZ3	2.28	0.43
2:AC:74:VAL:O	2:AC:78:VAL:HG23	2.19	0.43
2:AC:88:HIS:O	2:AC:91:GLN:HG2	2.19	0.43
4:AC:501:GTP:PG	3:AD:254:LYS:NZ	2.92	0.43
3:AD:6:HIS:ND1	3:AD:136:GLN:HG2	2.34	0.43
2:AE:133:GLN:NE2	2:AE:251:ASP:OD1	2.52	0.43
2:AE:280:LYS:HE3	2:AE:280:LYS:CA	2.42	0.43
3:AF:89:PRO:HA	3:AF:92:PHE:CE2	2.54	0.43
3:BB:251:ASP:OD1	3:BB:254:LYS:HG2	2.19	0.43
3:BF:6:HIS:ND1	3:BF:136:GLN:HG2	2.34	0.43
3:BF:251:ASP:OD1	3:BF:254:LYS:HG2	2.19	0.43
2:CA:17:GLY:O	2:CA:21:TRP:CD1	2.72	0.43
2:CA:201:ALA:HB3	2:CA:267:PHE:CD1	2.54	0.43
3:CB:165:ILE:HG12	3:CB:253:ARG:NH2	2.34	0.43
2:CC:385:ALA:O	2:CC:389:ALA:N	2.52	0.43
3:CD:89:PRO:HA	3:CD:92:PHE:CE2	2.54	0.43
3:CD:141:LEU:HD22	3:CD:172:MET:HB3	2.01	0.43
3:CF:165:ILE:HG12	3:CF:253:ARG:NH2	2.34	0.43
3:CF:214:PHE:O	3:CF:218:LYS:HD3	2.18	0.43
2:DA:201:ALA:HB3	2:DA:267:PHE:CD1	2.54	0.43
2:DC:148:GLY:O	2:DC:151:SER:OG	2.37	0.43
3:DD:6:HIS:ND1	3:DD:136:GLN:HG2	2.34	0.43
3:DD:101:ASN:HA	3:DD:144:GLY:N	2.33	0.43
2:DE:74:VAL:O	2:DE:78:VAL:HG23	2.19	0.43
2:DE:148:GLY:O	2:DE:151:SER:OG	2.37	0.43
3:DF:112:ALA:O	3:DF:115:VAL:HG12	2.18	0.43
3:DF:251:ASP:OD1	3:DF:254:LYS:HG2	2.19	0.43
3:DF:259:MET:HG3	3:DF:268:PHE:CE2	2.54	0.43
3:EB:89:PRO:HA	3:EB:92:PHE:CE2	2.54	0.43
3:ED:88:ARG:HG3	3:ED:91:ASN:H	1.84	0.43
3:ED:172:MET:HE3	3:ED:387:LEU:HD13	2.01	0.43
2:EE:12:ALA:HB2	4:EE:501:GTP:C8	2.54	0.43
3:FB:54:ASN:OD1	3:FB:64:ARG:NH1	2.52	0.43
2:FC:88:HIS:O	2:FC:91:GLN:HG2	2.19	0.43
3:FD:54:ASN:OD1	3:FD:64:ARG:NH1	2.52	0.43
2:FE:17:GLY:O	2:FE:21:TRP:CD1	2.72	0.43
2:FE:88:HIS:O	2:FE:91:GLN:HG2	2.19	0.43
3:GB:102:ASN:HB3	3:GB:105:LYS:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GB:319:PHE:CE2	3:GB:328:VAL:HG13	2.54	0.43
3:GD:172:MET:HE3	3:GD:387:LEU:HD13	2.01	0.43
3:GD:251:ASP:OD1	3:GD:254:LYS:HG2	2.19	0.43
3:GF:251:ASP:OD1	3:GF:254:LYS:HG2	2.19	0.43
2:HA:146:GLY:O	2:HA:150:THR:OG1	2.27	0.43
3:HB:12:CYS:SG	6:HB:501:GDP:H5'	2.59	0.43
3:HB:145:THR:HG22	3:HB:149:MET:HE2	2.01	0.43
3:HB:319:PHE:CE2	3:HB:328:VAL:HG13	2.54	0.43
3:HD:141:LEU:HD22	3:HD:172:MET:HB3	2.01	0.43
2:HE:17:GLY:O	2:HE:21:TRP:CD1	2.72	0.43
3:HF:12:CYS:SG	6:HF:501:GDP:H5'	2.59	0.43
3:HF:141:LEU:HD22	3:HF:172:MET:HB3	2.01	0.43
3:HF:242:LEU:HD23	3:HF:242:LEU:H	1.84	0.43
3:HF:319:PHE:CE2	3:HF:328:VAL:HG13	2.54	0.43
2:IA:133:GLN:NE2	2:IA:251:ASP:OD1	2.52	0.43
3:IB:421:ALA:O	3:IB:425:MET:HG2	2.19	0.43
3:ID:145:THR:HG22	3:ID:149:MET:HE2	2.01	0.43
3:ID:401:ARG:NH2	2:IE:345:ASP:CG	2.77	0.43
3:ID:421:ALA:O	3:ID:425:MET:HG2	2.19	0.43
3:IF:145:THR:HG22	3:IF:149:MET:HE2	2.01	0.43
3:IF:214:PHE:O	3:IF:218:LYS:HD3	2.18	0.43
3:JB:54:ASN:OD1	3:JB:64:ARG:NH1	2.52	0.43
3:JB:112:ALA:O	3:JB:115:VAL:HG12	2.18	0.43
3:JB:144:GLY:N	6:JB:501:GDP:O2B	2.52	0.43
3:JD:75:MET:SD	3:JD:79:ARG:HD3	2.59	0.43
3:JD:144:GLY:N	6:JD:501:GDP:O2B	2.52	0.43
3:JD:319:PHE:CE2	3:JD:328:VAL:HG13	2.54	0.43
2:KA:314:ALA:N	2:KA:380:ASN:OD1	2.50	0.43
3:KB:144:GLY:N	6:KB:501:GDP:O2B	2.52	0.43
3:KB:145:THR:HG22	3:KB:149:MET:HE2	2.01	0.43
3:KB:291:LEU:HD11	3:KB:373:MET:CG	2.48	0.43
2:KC:74:VAL:O	2:KC:78:VAL:HG23	2.19	0.43
3:KD:54:ASN:OD1	3:KD:64:ARG:NH1	2.52	0.43
3:KD:291:LEU:HD11	3:KD:373:MET:CG	2.48	0.43
3:KF:54:ASN:OD1	3:KF:64:ARG:NH1	2.52	0.43
3:KF:145:THR:HG22	3:KF:149:MET:HE2	2.01	0.43
3:KF:291:LEU:HD11	3:KF:373:MET:CG	2.48	0.43
2:LA:89:PRO:CD	2:MA:280:LYS:NZ	2.81	0.43
2:LC:105:ARG:HH12	3:LD:253:ARG:CD	2.23	0.43
3:LD:102:ASN:HB3	3:LD:105:LYS:HB2	1.99	0.43
3:LD:145:THR:HG22	3:LD:149:MET:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:172:MET:HE3	3:LD:387:LEU:HD13	2.01	0.43
3:LD:242:LEU:HD23	3:LD:242:LEU:H	1.84	0.43
2:LE:104:ALA:HA	2:LE:413:MET:CE	2.48	0.43
3:LF:172:MET:HE3	3:LF:387:LEU:HD13	2.01	0.43
3:LF:242:LEU:HD23	3:LF:242:LEU:H	1.84	0.43
3:LF:319:PHE:CE2	3:LF:328:VAL:HG13	2.54	0.43
2:MA:88:HIS:O	2:MA:91:GLN:HG2	2.19	0.43
2:MA:148:GLY:O	2:MA:151:SER:OG	2.37	0.43
2:MA:232:SER:OG	2:MA:233:GLN:OE1	2.36	0.43
3:MB:319:PHE:CE2	3:MB:328:VAL:HG13	2.54	0.43
7:MB:502:TA1:H193	7:MB:502:TA1:H021	1.91	0.43
2:MC:17:GLY:O	2:MC:21:TRP:CD1	2.72	0.43
2:MC:296:PHE:CD1	2:MC:296:PHE:C	2.97	0.43
2:ME:296:PHE:CD1	2:ME:296:PHE:C	2.97	0.43
3:MF:89:PRO:HA	3:MF:92:PHE:CE2	2.54	0.43
3:MF:319:PHE:CE2	3:MF:328:VAL:HG13	2.54	0.43
2:NA:12:ALA:HB2	4:NA:501:GTP:C8	2.54	0.43
2:NC:296:PHE:CD1	2:NC:296:PHE:C	2.97	0.43
3:ND:89:PRO:HA	3:ND:92:PHE:CE2	2.54	0.43
3:ND:332:MET:O	3:ND:336:GLN:NE2	2.45	0.43
3:NF:54:ASN:OD1	3:NF:64:ARG:NH1	2.52	0.43
3:NF:332:MET:O	3:NF:336:GLN:NE2	2.45	0.43
1:1C:67:ASN:ND2	3:NB:115:VAL:HG11	2.29	0.42
3:AB:6:HIS:ND1	3:AB:136:GLN:HG2	2.34	0.42
3:AB:54:ASN:OD1	3:AB:64:ARG:NH1	2.52	0.42
3:AB:251:ASP:OD1	3:AB:254:LYS:HG2	2.19	0.42
2:AE:12:ALA:HB2	4:AE:501:GTP:C8	2.54	0.42
2:AE:148:GLY:O	2:AE:151:SER:OG	2.37	0.42
2:AE:296:PHE:CD1	2:AE:296:PHE:C	2.97	0.42
3:AF:6:HIS:ND1	3:AF:136:GLN:HG2	2.34	0.42
2:BA:201:ALA:HB3	2:BA:267:PHE:CD1	2.54	0.42
3:BB:421:ALA:O	3:BB:425:MET:HG2	2.19	0.42
3:BD:165:ILE:HG12	3:BD:253:ARG:NH2	2.34	0.42
3:BD:421:ALA:O	3:BD:425:MET:HG2	2.19	0.42
3:CB:141:LEU:HD22	3:CB:172:MET:HB3	2.01	0.42
3:CB:172:MET:HE3	3:CB:387:LEU:HD13	2.01	0.42
2:CC:201:ALA:HB3	2:CC:267:PHE:CD1	2.54	0.42
3:CD:172:MET:HE3	3:CD:387:LEU:HD13	2.01	0.42
2:CE:385:ALA:O	2:CE:389:ALA:N	2.52	0.42
3:CF:141:LEU:HD22	3:CF:172:MET:HB3	2.01	0.42
3:CF:172:MET:HE3	3:CF:387:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:148:GLY:O	2:DA:151:SER:OG	2.37	0.42
3:DB:6:HIS:ND1	3:DB:136:GLN:HG2	2.34	0.42
3:DB:242:LEU:HD23	3:DB:242:LEU:H	1.84	0.42
3:DB:259:MET:HG3	3:DB:268:PHE:CE2	2.54	0.42
2:DC:201:ALA:HB3	2:DC:267:PHE:CD1	2.54	0.42
3:DD:112:ALA:O	3:DD:115:VAL:HG12	2.18	0.42
3:DD:172:MET:HE3	3:DD:387:LEU:HD13	2.01	0.42
3:DD:242:LEU:H	3:DD:242:LEU:HD23	1.84	0.42
3:DF:54:ASN:OD1	3:DF:64:ARG:NH1	2.52	0.42
2:EA:12:ALA:HB2	4:EA:501:GTP:C8	2.54	0.42
2:EA:422:ARG:CB	2:EA:425:MET:HE2	2.38	0.42
3:EB:60:LYS:HE3	3:FB:282:GLN:HE22	1.84	0.42
3:EF:75:MET:SD	3:EF:79:ARG:HD3	2.59	0.42
2:FA:133:GLN:NE2	2:FA:251:ASP:OD1	2.52	0.42
2:FA:255:PHE:CE1	2:FA:318:LEU:HD11	2.54	0.42
3:FB:75:MET:SD	3:FB:79:ARG:HD3	2.59	0.42
3:FB:172:MET:HE3	3:FB:387:LEU:HD13	2.01	0.42
2:FC:107:HIS:ND1	2:FC:151:SER:OG	2.43	0.42
2:FC:394:LYS:HZ3	2:FC:397:LEU:HD23	1.84	0.42
3:FD:75:MET:SD	3:FD:79:ARG:HD3	2.60	0.42
3:FD:172:MET:HE3	3:FD:387:LEU:HD13	2.01	0.42
3:FF:75:MET:SD	3:FF:79:ARG:HD3	2.59	0.42
2:GA:314:ALA:N	2:GA:380:ASN:OD1	2.50	0.42
3:GB:75:MET:SD	3:GB:79:ARG:HD3	2.59	0.42
3:GB:101:ASN:HA	3:GB:144:GLY:N	2.33	0.42
3:GB:172:MET:HE3	3:GB:387:LEU:HD13	2.01	0.42
3:GB:214:PHE:O	3:GB:218:LYS:HD3	2.18	0.42
2:GC:314:ALA:N	2:GC:380:ASN:OD1	2.50	0.42
3:GD:101:ASN:HA	3:GD:144:GLY:N	2.33	0.42
3:GD:144:GLY:N	6:GD:501:GDP:O2B	2.52	0.42
3:HB:141:LEU:HD22	3:HB:172:MET:HB3	2.01	0.42
3:HB:172:MET:HE3	3:HB:387:LEU:HD13	2.01	0.42
3:HD:12:CYS:SG	6:HD:501:GDP:H5'	2.59	0.42
3:HD:102:ASN:HB3	3:HD:105:LYS:HB2	2.00	0.42
3:HD:172:MET:HE3	3:HD:387:LEU:HD13	2.01	0.42
3:HD:242:LEU:HD23	3:HD:242:LEU:H	1.84	0.42
2:HE:133:GLN:NE2	2:HE:251:ASP:OD1	2.52	0.42
3:HF:144:GLY:N	6:HF:501:GDP:O2B	2.52	0.42
2:IA:12:ALA:HB2	4:IA:501:GTP:C8	2.54	0.42
3:IB:12:CYS:SG	6:IB:501:GDP:H5'	2.59	0.42
3:IB:144:GLY:N	6:IB:501:GDP:O2B	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:145:THR:HG22	3:IB:149:MET:HE2	2.01	0.42
2:IC:12:ALA:HB2	4:IC:501:GTP:C8	2.54	0.42
2:IC:133:GLN:NE2	2:IC:251:ASP:OD1	2.52	0.42
3:ID:6:HIS:ND1	3:ID:136:GLN:HG2	2.34	0.42
3:ID:102:ASN:HB3	3:ID:105:LYS:HB2	2.00	0.42
3:ID:425:MET:HA	3:ID:425:MET:HE3	2.01	0.42
2:IE:12:ALA:HB2	4:IE:501:GTP:C8	2.54	0.42
2:IE:221:ARG:NE	3:IF:327:GLU:CD	2.76	0.42
2:IE:296:PHE:CD1	2:IE:296:PHE:C	2.97	0.42
3:IF:12:CYS:SG	6:IF:501:GDP:H5'	2.59	0.42
3:IF:421:ALA:O	3:IF:425:MET:HG2	2.19	0.42
2:JA:88:HIS:O	2:JA:91:GLN:HG2	2.19	0.42
3:JB:75:MET:SD	3:JB:79:ARG:HD3	2.59	0.42
3:JB:145:THR:HG22	3:JB:149:MET:HE2	2.01	0.42
3:JB:312:TYR:HA	3:JB:381:SER:HA	2.00	0.42
3:JD:312:TYR:HA	3:JD:381:SER:HA	2.00	0.42
2:JE:88:HIS:O	2:JE:91:GLN:HG2	2.19	0.42
2:JE:172:TYR:N	2:JE:204:VAL:O	2.27	0.42
2:JE:385:ALA:O	2:JE:389:ALA:N	2.52	0.42
3:JF:75:MET:SD	3:JF:79:ARG:HD3	2.59	0.42
3:JF:145:THR:HG22	3:JF:149:MET:HE2	2.01	0.42
3:JF:312:TYR:HA	3:JF:381:SER:HA	2.00	0.42
3:KB:75:MET:SD	3:KB:79:ARG:HD3	2.59	0.42
3:KB:89:PRO:HA	3:KB:92:PHE:CE2	2.54	0.42
3:KB:407:TRP:NE1	2:KC:257:THR:HA	2.34	0.42
3:KD:12:CYS:SG	6:KD:501:GDP:H5'	2.59	0.42
3:KD:75:MET:SD	3:KD:79:ARG:HD3	2.59	0.42
3:KD:145:THR:HG22	3:KD:149:MET:HE2	2.01	0.42
3:KF:75:MET:SD	3:KF:79:ARG:HD3	2.60	0.42
3:KF:251:ASP:OD1	3:KF:254:LYS:HG2	2.19	0.42
2:LA:85:GLN:OE1	2:LA:85:GLN:N	2.37	0.42
3:LB:88:ARG:HG3	3:LB:91:ASN:H	1.84	0.42
3:LB:102:ASN:HB3	3:LB:105:LYS:HB2	1.99	0.42
3:LB:242:LEU:HD23	3:LB:242:LEU:H	1.84	0.42
3:LD:75:MET:SD	3:LD:79:ARG:HD3	2.59	0.42
3:LD:88:ARG:HG3	3:LD:91:ASN:H	1.84	0.42
2:MA:17:GLY:O	2:MA:21:TRP:CD1	2.72	0.42
3:MB:6:HIS:ND1	3:MB:136:GLN:HG2	2.34	0.42
3:MB:54:ASN:OD1	3:MB:64:ARG:NH1	2.52	0.42
3:MB:242:LEU:HD23	3:MB:242:LEU:H	1.84	0.42
2:MC:148:GLY:O	2:MC:151:SER:OG	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:145:THR:HG22	3:MD:149:MET:HE2	2.01	0.42
3:MD:251:ASP:OD1	3:MD:254:LYS:HG2	2.19	0.42
2:ME:407:TRP:CH2	3:MF:260:VAL:O	2.71	0.42
3:MF:12:CYS:SG	6:MF:501:GDP:H5'	2.59	0.42
2:NA:133:GLN:NE2	2:NA:251:ASP:OD1	2.52	0.42
3:NB:421:ALA:O	3:NB:425:MET:HG2	2.19	0.42
2:NC:133:GLN:NE2	2:NC:251:ASP:OD1	2.52	0.42
2:NC:407:TRP:CH2	3:ND:256:ALA:O	2.72	0.42
3:ND:312:TYR:HA	3:ND:381:SER:HA	2.00	0.42
3:ND:421:ALA:O	3:ND:425:MET:HG2	2.19	0.42
2:NE:133:GLN:NE2	2:NE:251:ASP:OD1	2.52	0.42
3:NF:6:HIS:ND1	3:NF:136:GLN:HG2	2.34	0.42
3:NF:89:PRO:HA	3:NF:92:PHE:CE2	2.54	0.42
3:NF:421:ALA:O	3:NF:425:MET:HG2	2.19	0.42
2:AA:74:VAL:O	2:AA:78:VAL:HG23	2.19	0.42
2:AC:12:ALA:HB2	4:AC:501:GTP:C8	2.54	0.42
2:AE:74:VAL:O	2:AE:78:VAL:HG23	2.19	0.42
3:AF:12:CYS:SG	6:AF:501:GDP:H5'	2.59	0.42
2:BA:296:PHE:CD1	2:BA:296:PHE:C	2.97	0.42
3:BB:12:CYS:SG	6:BB:501:GDP:H5'	2.59	0.42
2:CA:229:ARG:HH11	2:CA:366:GLY:HA2	1.84	0.42
2:CA:385:ALA:O	2:CA:389:ALA:N	2.52	0.42
2:CE:119:LEU:HD12	2:CE:119:LEU:HA	1.86	0.42
2:DA:74:VAL:O	2:DA:78:VAL:HG23	2.19	0.42
3:DB:54:ASN:OD1	3:DB:64:ARG:NH1	2.52	0.42
3:DB:251:ASP:OD1	3:DB:254:LYS:HG2	2.19	0.42
2:DC:74:VAL:O	2:DC:78:VAL:HG23	2.19	0.42
3:DD:54:ASN:OD1	3:DD:64:ARG:NH1	2.52	0.42
2:DE:201:ALA:HB3	2:DE:267:PHE:CD1	2.54	0.42
3:DF:240:THR:HA	3:DF:243:ARG:HH21	1.83	0.42
3:DF:242:LEU:HD23	3:DF:242:LEU:H	1.84	0.42
3:EB:54:ASN:OD1	3:EB:64:ARG:NH1	2.52	0.42
3:ED:259:MET:HG3	3:ED:268:PHE:CE2	2.54	0.42
3:EF:259:MET:HG3	3:EF:268:PHE:CE2	2.54	0.42
3:EF:319:PHE:CE2	3:EF:328:VAL:HG13	2.54	0.42
3:EF:425:MET:HA	3:EF:425:MET:HE3	2.01	0.42
2:FA:17:GLY:O	2:FA:21:TRP:CD1	2.72	0.42
3:FB:6:HIS:ND1	3:FB:136:GLN:HG2	2.34	0.42
2:FC:12:ALA:HB2	4:FC:501:GTP:C8	2.54	0.42
2:FC:17:GLY:O	2:FC:21:TRP:CD1	2.72	0.42
2:FC:66:VAL:HG23	2:FC:91:GLN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:255:PHE:CE1	2:FC:318:LEU:HD11	2.54	0.42
3:FD:6:HIS:ND1	3:FD:136:GLN:HG2	2.34	0.42
3:FF:54:ASN:OD1	3:FF:64:ARG:NH1	2.52	0.42
3:GB:12:CYS:SG	6:GB:501:GDP:H5'	2.59	0.42
2:GC:133:GLN:NE2	2:GC:251:ASP:OD1	2.52	0.42
3:GD:75:MET:SD	3:GD:79:ARG:HD3	2.60	0.42
3:GD:89:PRO:HA	3:GD:92:PHE:CE2	2.54	0.42
3:GF:101:ASN:HA	3:GF:144:GLY:N	2.33	0.42
2:HA:133:GLN:NE2	2:HA:251:ASP:OD1	2.52	0.42
3:HB:75:MET:SD	3:HB:79:ARG:HD3	2.59	0.42
3:HB:144:GLY:N	6:HB:501:GDP:O2B	2.52	0.42
2:HC:133:GLN:NE2	2:HC:251:ASP:OD1	2.52	0.42
3:HD:6:HIS:ND1	3:HD:136:GLN:HG2	2.34	0.42
3:HF:89:PRO:HA	3:HF:92:PHE:CE2	2.54	0.42
2:IA:296:PHE:CD1	2:IA:296:PHE:C	2.97	0.42
3:IB:75:MET:SD	3:IB:79:ARG:HD3	2.59	0.42
3:IB:102:ASN:HB3	3:IB:105:LYS:HB2	2.00	0.42
3:IB:165:ILE:HG12	3:IB:253:ARG:NH2	2.34	0.42
3:IB:425:MET:HA	3:IB:425:MET:HE3	2.01	0.42
2:IC:88:HIS:O	2:IC:91:GLN:HG2	2.19	0.42
3:ID:12:CYS:SG	6:ID:501:GDP:H5'	2.59	0.42
3:IF:6:HIS:ND1	3:IF:136:GLN:HG2	2.34	0.42
3:IF:75:MET:SD	3:IF:79:ARG:HD3	2.60	0.42
3:IF:101:ASN:HA	3:IF:144:GLY:N	2.33	0.42
3:IF:425:MET:HA	3:IF:425:MET:HE3	2.01	0.42
2:JC:74:VAL:O	2:JC:78:VAL:HG23	2.19	0.42
3:JD:145:THR:HG22	3:JD:149:MET:HE2	2.01	0.42
3:JF:144:GLY:N	6:JF:501:GDP:O2B	2.52	0.42
2:KA:280:LYS:HE3	2:KA:280:LYS:CA	2.42	0.42
3:KB:102:ASN:HB3	3:KB:105:LYS:HB2	2.00	0.42
3:KB:319:PHE:CE2	3:KB:328:VAL:HG13	2.54	0.42
7:KB:502:TA1:H472	7:KB:502:TA1:H021	1.88	0.42
3:KD:251:ASP:OD1	3:KD:254:LYS:HG2	2.19	0.42
2:KE:74:VAL:O	2:KE:78:VAL:HG23	2.19	0.42
3:KF:12:CYS:SG	6:KF:501:GDP:H5'	2.59	0.42
2:LA:88:HIS:O	2:LA:91:GLN:HG2	2.19	0.42
2:LC:88:HIS:O	2:LC:91:GLN:HG2	2.19	0.42
3:LF:88:ARG:HG3	3:LF:91:ASN:H	1.84	0.42
2:MA:296:PHE:CD1	2:MA:296:PHE:C	2.97	0.42
3:MD:6:HIS:ND1	3:MD:136:GLN:HG2	2.34	0.42
3:MD:54:ASN:OD1	3:MD:64:ARG:NH1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:172:MET:HE3	3:MF:387:LEU:HD13	2.01	0.42
3:MF:271:GLY:HA2	3:MF:302:MET:HE3	2.02	0.42
2:NA:296:PHE:C	2:NA:296:PHE:CD1	2.97	0.42
3:NB:145:THR:HG22	3:NB:149:MET:HE2	2.01	0.42
3:NB:172:MET:HE3	3:NB:387:LEU:HD13	2.01	0.42
3:NB:251:ASP:OD1	3:NB:254:LYS:HG2	2.19	0.42
2:NC:12:ALA:HB2	4:NC:501:GTP:C8	2.54	0.42
2:NC:17:GLY:O	2:NC:21:TRP:CD1	2.72	0.42
3:ND:54:ASN:OD1	3:ND:64:ARG:NH1	2.52	0.42
3:ND:145:THR:HG22	3:ND:149:MET:HE2	2.01	0.42
2:NE:296:PHE:CD1	2:NE:296:PHE:C	2.97	0.42
2:NE:331:ALA:O	2:NE:334:THR:OG1	2.36	0.42
1:1A:23:TRP:O	1:1A:26:ASN:HB2	2.20	0.42
1:1D:23:TRP:O	1:1D:26:ASN:HB2	2.20	0.42
1:1E:23:TRP:O	1:1E:26:ASN:HB2	2.20	0.42
2:AA:12:ALA:HB2	4:AA:501:GTP:C8	2.54	0.42
2:AA:296:PHE:CD1	2:AA:296:PHE:C	2.97	0.42
3:AB:425:MET:HA	3:AB:425:MET:HE3	2.01	0.42
2:AC:210:TYR:CE1	2:AC:227:LEU:HD11	2.49	0.42
2:AC:296:PHE:C	2:AC:296:PHE:CD1	2.97	0.42
3:AD:12:CYS:SG	6:AD:501:GDP:H5'	2.59	0.42
2:BA:133:GLN:NE2	2:BA:251:ASP:OD1	2.52	0.42
2:BC:88:HIS:O	2:BC:91:GLN:HG2	2.19	0.42
2:BC:296:PHE:CD1	2:BC:296:PHE:C	2.97	0.42
3:BD:12:CYS:SG	6:BD:501:GDP:H5'	2.59	0.42
2:BE:88:HIS:O	2:BE:91:GLN:HG2	2.19	0.42
2:BE:296:PHE:C	2:BE:296:PHE:CD1	2.97	0.42
3:BF:421:ALA:O	3:BF:425:MET:HG2	2.20	0.42
3:CB:259:MET:HG3	3:CB:268:PHE:CE2	2.54	0.42
3:CB:271:GLY:HA2	3:CB:302:MET:HE3	2.02	0.42
2:CC:229:ARG:HH11	2:CC:366:GLY:HA2	1.85	0.42
3:CD:259:MET:HG3	3:CD:268:PHE:CE2	2.54	0.42
3:CD:271:GLY:HA2	3:CD:302:MET:HE3	2.02	0.42
3:CD:421:ALA:O	3:CD:425:MET:HG2	2.19	0.42
3:CF:259:MET:HG3	3:CF:268:PHE:CE2	2.54	0.42
3:CF:271:GLY:HA2	3:CF:302:MET:HE3	2.02	0.42
3:CF:421:ALA:O	3:CF:425:MET:HG2	2.19	0.42
2:DA:422:ARG:CB	2:DA:425:MET:HE2	2.38	0.42
3:DB:172:MET:HE3	3:DB:387:LEU:HD13	2.01	0.42
3:DD:251:ASP:OD1	3:DD:254:LYS:HG2	2.19	0.42
2:DE:229:ARG:HH11	2:DE:366:GLY:HA2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EA:66:VAL:HG23	2:EA:91:GLN:O	2.19	0.42
2:EA:255:PHE:CE1	2:EA:318:LEU:HD11	2.54	0.42
3:ED:54:ASN:OD1	3:ED:64:ARG:NH1	2.52	0.42
3:ED:425:MET:HA	3:ED:425:MET:HE3	2.00	0.42
3:EF:172:MET:HE3	3:EF:387:LEU:HD13	2.01	0.42
3:EF:251:ASP:OD1	3:EF:254:LYS:HG2	2.19	0.42
2:FA:12:ALA:HB2	4:FA:501:GTP:C8	2.54	0.42
4:FA:501:GTP:PG	3:FB:254:LYS:HZ1	2.42	0.42
3:FB:319:PHE:CE2	3:FB:328:VAL:HG13	2.54	0.42
2:FC:133:GLN:NE2	2:FC:251:ASP:OD1	2.52	0.42
2:FE:12:ALA:HB2	4:FE:501:GTP:C8	2.54	0.42
2:FE:66:VAL:HG23	2:FE:91:GLN:O	2.19	0.42
2:FE:133:GLN:NE2	2:FE:251:ASP:OD1	2.52	0.42
2:FE:255:PHE:CE1	2:FE:318:LEU:HD11	2.54	0.42
3:FF:6:HIS:ND1	3:FF:136:GLN:HG2	2.34	0.42
2:GA:229:ARG:HH11	2:GA:366:GLY:HA2	1.85	0.42
2:GA:255:PHE:CE1	2:GA:318:LEU:HD11	2.54	0.42
3:GB:144:GLY:N	6:GB:501:GDP:O2B	2.52	0.42
3:GB:421:ALA:O	3:GB:425:MET:HG2	2.19	0.42
2:GC:229:ARG:HH11	2:GC:366:GLY:HA2	1.85	0.42
3:GD:214:PHE:O	3:GD:218:LYS:HD3	2.18	0.42
3:GD:421:ALA:O	3:GD:425:MET:HG2	2.20	0.42
2:GE:133:GLN:NE2	2:GE:251:ASP:OD1	2.52	0.42
2:GE:296:PHE:C	2:GE:296:PHE:CD1	2.97	0.42
3:GF:144:GLY:N	6:GF:501:GDP:O2B	2.52	0.42
3:GF:145:THR:HG22	3:GF:149:MET:HE2	2.01	0.42
3:GF:214:PHE:O	3:GF:218:LYS:HD3	2.18	0.42
3:GF:421:ALA:O	3:GF:425:MET:HG2	2.19	0.42
2:HA:66:VAL:HG23	2:HA:91:GLN:O	2.20	0.42
2:HA:88:HIS:O	2:HA:91:GLN:HG2	2.19	0.42
3:HB:6:HIS:ND1	3:HB:136:GLN:HG2	2.34	0.42
2:HC:66:VAL:HG23	2:HC:91:GLN:O	2.19	0.42
2:HC:88:HIS:O	2:HC:91:GLN:HG2	2.19	0.42
2:HC:146:GLY:O	2:HC:150:THR:OG1	2.27	0.42
2:HC:296:PHE:CD1	2:HC:296:PHE:C	2.97	0.42
3:HD:145:THR:HG22	3:HD:149:MET:HE2	2.01	0.42
3:HD:251:ASP:OD1	3:HD:254:LYS:HG2	2.19	0.42
2:HE:88:HIS:O	2:HE:91:GLN:HG2	2.19	0.42
2:HE:255:PHE:CE1	2:HE:318:LEU:HD11	2.54	0.42
2:HE:296:PHE:CD1	2:HE:296:PHE:C	2.97	0.42
3:HF:6:HIS:ND1	3:HF:136:GLN:HG2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HF:145:THR:HG22	3:HF:149:MET:HE2	2.01	0.42
3:IB:6:HIS:ND1	3:IB:136:GLN:HG2	2.34	0.42
3:IB:172:MET:HE3	3:IB:387:LEU:HD13	2.01	0.42
2:IC:296:PHE:CD1	2:IC:296:PHE:C	2.97	0.42
3:ID:75:MET:SD	3:ID:79:ARG:HD3	2.60	0.42
3:ID:180:THR:HB	3:ID:183:GLU:CD	2.45	0.42
2:IE:88:HIS:O	2:IE:91:GLN:HG2	2.19	0.42
2:IE:229:ARG:HH11	2:IE:366:GLY:HA2	1.84	0.42
2:IE:280:LYS:HE3	2:IE:280:LYS:CA	2.42	0.42
2:JA:385:ALA:O	2:JA:389:ALA:N	2.52	0.42
3:JB:259:MET:HG3	3:JB:268:PHE:CE2	2.54	0.42
2:JC:88:HIS:O	2:JC:91:GLN:HG2	2.19	0.42
2:JC:385:ALA:O	2:JC:389:ALA:N	2.52	0.42
3:JD:6:HIS:ND1	3:JD:136:GLN:HG2	2.34	0.42
3:JD:218:LYS:HB2	3:JD:277:SER:HB3	2.02	0.42
3:JD:425:MET:HA	3:JD:425:MET:HE3	2.00	0.42
3:JF:6:HIS:ND1	3:JF:136:GLN:HG2	2.34	0.42
3:JF:319:PHE:CE2	3:JF:328:VAL:HG13	2.54	0.42
3:JF:425:MET:HA	3:JF:425:MET:HE3	2.00	0.42
2:KC:296:PHE:CD1	2:KC:296:PHE:C	2.97	0.42
2:KE:296:PHE:CD1	2:KE:296:PHE:C	2.97	0.42
3:KF:319:PHE:CE2	3:KF:328:VAL:HG13	2.54	0.42
2:LA:296:PHE:CD1	2:LA:296:PHE:C	2.97	0.42
3:LB:6:HIS:ND1	3:LB:136:GLN:HG2	2.34	0.42
3:LB:75:MET:SD	3:LB:79:ARG:HD3	2.60	0.42
3:LB:259:MET:HG3	3:LB:268:PHE:CE2	2.54	0.42
2:LE:88:HIS:O	2:LE:91:GLN:HG2	2.19	0.42
3:LF:75:MET:SD	3:LF:79:ARG:HD3	2.60	0.42
3:MB:145:THR:HG22	3:MB:149:MET:HE2	2.01	0.42
3:MD:271:GLY:HA2	3:MD:302:MET:HE3	2.02	0.42
2:ME:133:GLN:NE2	2:ME:251:ASP:OD1	2.52	0.42
3:MF:6:HIS:ND1	3:MF:136:GLN:HG2	2.34	0.42
3:MF:54:ASN:OD1	3:MF:64:ARG:NH1	2.52	0.42
3:MF:75:MET:SD	3:MF:79:ARG:HD3	2.59	0.42
3:MF:259:MET:HG3	3:MF:268:PHE:CE2	2.54	0.42
3:NB:75:MET:SD	3:NB:79:ARG:HD3	2.60	0.42
2:NE:12:ALA:HB2	4:NE:501:GTP:C8	2.54	0.42
2:NE:101:ASN:H	3:NF:254:LYS:HZ2	1.67	0.42
3:NF:145:THR:HG22	3:NF:149:MET:HE2	2.01	0.42
1:1E:23:TRP:CZ3	1:1E:27:ILE:HD11	2.54	0.42
3:AD:251:ASP:OD1	3:AD:254:LYS:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:251:ASP:OD1	3:AF:254:LYS:HG2	2.19	0.42
3:AF:259:MET:HG3	3:AF:268:PHE:CE2	2.54	0.42
3:AF:271:GLY:HA2	3:AF:302:MET:HE3	2.02	0.42
2:BE:133:GLN:NE2	2:BE:251:ASP:OD1	2.52	0.42
3:BF:12:CYS:SG	6:BF:501:GDP:H5'	2.59	0.42
3:BF:165:ILE:HG12	3:BF:253:ARG:NH2	2.34	0.42
3:CB:421:ALA:O	3:CB:425:MET:HG2	2.20	0.42
2:CC:119:LEU:HD12	2:CC:119:LEU:HA	1.86	0.42
2:CE:232:SER:OG	2:CE:233:GLN:OE1	2.36	0.42
2:DA:221:ARG:NH2	3:DB:327:GLU:OE2	2.53	0.42
2:DA:229:ARG:HH11	2:DA:366:GLY:HA2	1.85	0.42
3:DB:421:ALA:O	3:DB:425:MET:HG2	2.19	0.42
2:DC:12:ALA:HB2	4:DC:501:GTP:C8	2.54	0.42
2:DC:229:ARG:HH11	2:DC:366:GLY:HA2	1.85	0.42
2:DE:385:ALA:O	2:DE:389:ALA:N	2.52	0.42
3:DF:421:ALA:O	3:DF:425:MET:HG2	2.19	0.42
3:EB:259:MET:HG3	3:EB:268:PHE:CE2	2.55	0.42
3:EB:425:MET:HE3	3:EB:425:MET:HA	2.01	0.42
3:ED:293:GLN:HA	3:ED:296:PHE:CE1	2.55	0.42
2:EE:66:VAL:HG23	2:EE:91:GLN:O	2.20	0.42
3:EF:6:HIS:ND1	3:EF:136:GLN:HG2	2.34	0.42
2:FA:66:VAL:HG23	2:FA:91:GLN:O	2.20	0.42
3:FD:319:PHE:CE2	3:FD:328:VAL:HG13	2.54	0.42
2:FE:107:HIS:ND1	2:FE:151:SER:OG	2.43	0.42
2:GA:12:ALA:HB2	4:GA:501:GTP:C8	2.54	0.42
2:GA:133:GLN:NE2	2:GA:251:ASP:OD1	2.52	0.42
7:GB:502:TA1:H472	7:GB:502:TA1:H021	1.88	0.42
2:GC:255:PHE:CE1	2:GC:318:LEU:HD11	2.54	0.42
2:GC:296:PHE:C	2:GC:296:PHE:CD1	2.97	0.42
2:GE:229:ARG:HH11	2:GE:366:GLY:HA2	1.85	0.42
2:GE:232:SER:OG	2:GE:233:GLN:OE1	2.36	0.42
2:GE:255:PHE:CE1	2:GE:318:LEU:HD11	2.54	0.42
3:GF:172:MET:HE3	3:GF:387:LEU:HD13	2.01	0.42
2:HA:296:PHE:CD1	2:HA:296:PHE:C	2.97	0.42
3:HB:89:PRO:HA	3:HB:92:PHE:CE2	2.54	0.42
3:HB:102:ASN:HB3	3:HB:105:LYS:HB2	2.00	0.42
3:HB:209:LEU:HD13	3:HB:227:LEU:HB3	2.02	0.42
3:HB:218:LYS:HB2	3:HB:277:SER:HB3	2.02	0.42
3:HB:259:MET:HG3	3:HB:268:PHE:CE2	2.54	0.42
3:HB:421:ALA:O	3:HB:425:MET:HG2	2.20	0.42
2:HC:255:PHE:CE1	2:HC:318:LEU:HD11	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:89:PRO:HA	3:HD:92:PHE:CE2	2.54	0.42
3:HD:144:GLY:N	6:HD:501:GDP:O2B	2.52	0.42
3:HD:259:MET:HG3	3:HD:268:PHE:CE2	2.54	0.42
2:HE:66:VAL:HG23	2:HE:91:GLN:O	2.20	0.42
3:HF:143:GLY:N	3:HF:183:GLU:OE1	2.44	0.42
3:HF:218:LYS:HB2	3:HF:277:SER:HB3	2.02	0.42
3:HF:259:MET:HG3	3:HF:268:PHE:CE2	2.54	0.42
2:IA:88:HIS:O	2:IA:91:GLN:HG2	2.19	0.42
2:IA:222:PRO:HD2	3:IB:326:LYS:HE2	2.01	0.42
3:IB:141:LEU:HD22	3:IB:172:MET:HB3	2.01	0.42
3:IB:180:THR:HB	3:IB:183:GLU:CD	2.45	0.42
3:ID:141:LEU:HD22	3:ID:172:MET:HB3	2.01	0.42
3:IF:141:LEU:HD22	3:IF:172:MET:HB3	2.01	0.42
3:IF:180:THR:HB	3:IF:183:GLU:CD	2.45	0.42
3:IF:293:GLN:HA	3:IF:296:PHE:CE1	2.55	0.42
2:JA:74:VAL:O	2:JA:78:VAL:HG23	2.19	0.42
2:JA:296:PHE:CD1	2:JA:296:PHE:C	2.97	0.42
3:JB:6:HIS:ND1	3:JB:136:GLN:HG2	2.34	0.42
3:JB:218:LYS:HB2	3:JB:277:SER:HB3	2.02	0.42
2:JC:296:PHE:CD1	2:JC:296:PHE:C	2.97	0.42
3:JD:88:ARG:HG3	3:JD:91:ASN:H	1.84	0.42
3:JD:180:THR:HB	3:JD:183:GLU:CD	2.45	0.42
3:JD:259:MET:HG3	3:JD:268:PHE:CE2	2.54	0.42
2:JE:74:VAL:O	2:JE:78:VAL:HG23	2.19	0.42
2:JE:224:TYR:HD1	3:JF:325:MET:HE2	1.85	0.42
2:JE:296:PHE:CD1	2:JE:296:PHE:C	2.97	0.42
3:JF:293:GLN:HA	3:JF:296:PHE:CE1	2.55	0.42
3:KB:54:ASN:OD1	3:KB:64:ARG:NH1	2.52	0.42
3:KB:242:LEU:HD23	3:KB:242:LEU:H	1.84	0.42
3:KB:251:ASP:OD1	3:KB:254:LYS:HG2	2.19	0.42
2:KC:88:HIS:O	2:KC:91:GLN:HG2	2.19	0.42
3:KD:242:LEU:HD23	3:KD:242:LEU:H	1.84	0.42
3:KD:421:ALA:O	3:KD:425:MET:HG2	2.20	0.42
2:KE:88:HIS:O	2:KE:91:GLN:HG2	2.19	0.42
3:KF:242:LEU:HD23	3:KF:242:LEU:H	1.84	0.42
3:KF:421:ALA:O	3:KF:425:MET:HG2	2.20	0.42
3:LB:271:GLY:HA2	3:LB:302:MET:HE3	2.02	0.42
2:LC:148:GLY:O	2:LC:151:SER:OG	2.37	0.42
2:LC:296:PHE:CD1	2:LC:296:PHE:C	2.97	0.42
3:LD:6:HIS:ND1	3:LD:136:GLN:HG2	2.34	0.42
3:LD:141:LEU:HD22	3:LD:172:MET:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LD:165:ILE:HG12	3:LD:253:ARG:NH2	2.33	0.42
2:LE:296:PHE:CD1	2:LE:296:PHE:C	2.97	0.42
2:MA:133:GLN:NE2	2:MA:251:ASP:OD1	2.52	0.42
2:MA:385:ALA:O	2:MA:389:ALA:N	2.52	0.42
3:MB:141:LEU:HD22	3:MB:172:MET:HB3	2.01	0.42
3:MB:259:MET:HG3	3:MB:268:PHE:CE2	2.54	0.42
3:MB:271:GLY:HA2	3:MB:302:MET:HE3	2.02	0.42
2:MC:133:GLN:NE2	2:MC:251:ASP:OD1	2.52	0.42
3:MD:12:CYS:SG	6:MD:501:GDP:H5'	2.59	0.42
3:MD:158:ARG:NH2	3:MD:164:ARG:O	2.38	0.42
3:MD:259:MET:HG3	3:MD:268:PHE:CE2	2.54	0.42
3:MF:145:THR:HG22	3:MF:149:MET:HE2	2.01	0.42
3:MF:251:ASP:OD1	3:MF:254:LYS:HG2	2.19	0.42
2:NA:17:GLY:O	2:NA:21:TRP:CD1	2.72	0.42
3:NB:12:CYS:SG	6:NB:501:GDP:H5'	2.59	0.42
3:NB:54:ASN:OD1	3:NB:64:ARG:NH1	2.52	0.42
3:ND:12:CYS:SG	6:ND:501:GDP:H5'	2.59	0.42
3:ND:75:MET:SD	3:ND:79:ARG:HD3	2.59	0.42
3:ND:251:ASP:OD1	3:ND:254:LYS:HG2	2.19	0.42
3:ND:271:GLY:HA2	3:ND:302:MET:HE3	2.02	0.42
3:NF:12:CYS:SG	6:NF:501:GDP:H5'	2.59	0.42
3:NF:75:MET:SD	3:NF:79:ARG:HD3	2.59	0.42
3:NF:251:ASP:OD1	3:NF:254:LYS:HG2	2.19	0.42
3:NF:293:GLN:HA	3:NF:296:PHE:CE1	2.55	0.42
3:NF:312:TYR:HA	3:NF:381:SER:HA	2.00	0.42
1:1B:23:TRP:O	1:1B:26:ASN:HB2	2.20	0.42
1:1C:63:TYR:O	2:AE:308:ARG:NH2	2.53	0.42
3:AB:88:ARG:HG3	3:AB:91:ASN:H	1.84	0.42
3:AB:259:MET:HG3	3:AB:268:PHE:CE2	2.54	0.42
3:AB:293:GLN:HA	3:AB:296:PHE:CE1	2.55	0.42
2:AC:400:ALA:HB3	3:AD:346:TRP:CH2	2.39	0.42
3:AD:88:ARG:HG3	3:AD:91:ASN:H	1.84	0.42
3:AD:259:MET:HG3	3:AD:268:PHE:CE2	2.54	0.42
3:AD:271:GLY:HA2	3:AD:302:MET:HE3	2.02	0.42
3:AD:293:GLN:HA	3:AD:296:PHE:CE1	2.55	0.42
3:AF:293:GLN:HA	3:AF:296:PHE:CE1	2.55	0.42
3:AF:421:ALA:O	3:AF:425:MET:HG2	2.20	0.42
2:BA:88:HIS:O	2:BA:91:GLN:HG2	2.19	0.42
2:BA:210:TYR:CE1	2:BA:227:LEU:HD11	2.49	0.42
3:BB:259:MET:HG3	3:BB:268:PHE:CE2	2.54	0.42
3:BB:271:GLY:HA2	3:BB:302:MET:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BC:133:GLN:NE2	2:BC:251:ASP:OD1	2.52	0.42
3:BD:271:GLY:HA2	3:BD:302:MET:HE3	2.02	0.42
2:BE:385:ALA:O	2:BE:389:ALA:N	2.52	0.42
3:BF:271:GLY:HA2	3:BF:302:MET:HE3	2.02	0.42
3:CB:12:CYS:SG	6:CB:501:GDP:H5'	2.59	0.42
2:CC:133:GLN:NE2	2:CC:251:ASP:OD1	2.52	0.42
2:CE:133:GLN:NE2	2:CE:251:ASP:OD1	2.52	0.42
2:CE:229:ARG:HH11	2:CE:366:GLY:HA2	1.85	0.42
3:DB:143:GLY:N	3:DB:183:GLU:OE1	2.45	0.42
3:DB:158:ARG:NH2	3:DB:164:ARG:O	2.39	0.42
3:DB:180:THR:HB	3:DB:183:GLU:CD	2.45	0.42
2:DC:385:ALA:O	2:DC:389:ALA:N	2.52	0.42
3:DD:180:THR:HB	3:DD:183:GLU:CD	2.45	0.42
3:DD:421:ALA:O	3:DD:425:MET:HG2	2.20	0.42
2:DE:12:ALA:HB2	4:DE:501:GTP:C8	2.54	0.42
3:DF:75:MET:SD	3:DF:79:ARG:HD3	2.59	0.42
3:EB:6:HIS:ND1	3:EB:136:GLN:HG2	2.34	0.42
3:EB:180:THR:HB	3:EB:183:GLU:CD	2.45	0.42
3:EB:293:GLN:HA	3:EB:296:PHE:CE1	2.55	0.42
2:EC:385:ALA:O	2:EC:389:ALA:N	2.52	0.42
3:ED:75:MET:SD	3:ED:79:ARG:HD3	2.60	0.42
3:ED:180:THR:HB	3:ED:183:GLU:CD	2.45	0.42
3:ED:421:ALA:O	3:ED:425:MET:HG2	2.19	0.42
3:EF:54:ASN:OD1	3:EF:64:ARG:NH1	2.52	0.42
2:FA:385:ALA:O	2:FA:389:ALA:N	2.52	0.42
3:FB:421:ALA:O	3:FB:425:MET:HG2	2.19	0.42
3:FD:88:ARG:HG3	3:FD:91:ASN:H	1.84	0.42
3:FD:421:ALA:O	3:FD:425:MET:HG2	2.19	0.42
2:FE:385:ALA:O	2:FE:389:ALA:N	2.52	0.42
3:FF:144:GLY:N	6:FF:501:GDP:O2B	2.52	0.42
2:GA:66:VAL:HG23	2:GA:91:GLN:O	2.20	0.42
2:GA:296:PHE:CD1	2:GA:296:PHE:C	2.97	0.42
3:GB:6:HIS:ND1	3:GB:136:GLN:HG2	2.34	0.42
3:GB:89:PRO:HA	3:GB:92:PHE:CE2	2.54	0.42
2:GC:12:ALA:HB2	4:GC:501:GTP:C8	2.54	0.42
2:GC:66:VAL:HG23	2:GC:91:GLN:O	2.19	0.42
2:GE:12:ALA:HB2	4:GE:501:GTP:C8	2.54	0.42
2:GE:148:GLY:O	2:GE:151:SER:OG	2.37	0.42
2:GE:385:ALA:O	2:GE:389:ALA:N	2.52	0.42
3:GF:75:MET:SD	3:GF:79:ARG:HD3	2.60	0.42
2:HA:148:GLY:O	2:HA:151:SER:OG	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HA:255:PHE:CE1	2:HA:318:LEU:HD11	2.54	0.42
3:HB:251:ASP:OD1	3:HB:254:LYS:HG2	2.19	0.42
3:HD:75:MET:SD	3:HD:79:ARG:HD3	2.60	0.42
3:HD:209:LEU:HD13	3:HD:227:LEU:HB3	2.02	0.42
3:HD:421:ALA:O	3:HD:425:MET:HG2	2.20	0.42
3:HF:75:MET:SD	3:HF:79:ARG:HD3	2.59	0.42
2:IA:255:PHE:CE1	2:IA:318:LEU:HD11	2.54	0.42
3:ID:172:MET:HE3	3:ID:387:LEU:HD13	2.01	0.42
3:ID:259:MET:HG3	3:ID:268:PHE:CE2	2.54	0.42
3:ID:293:GLN:HA	3:ID:296:PHE:CE1	2.55	0.42
2:IE:56:THR:CB	2:IE:285:GLN:HB2	2.50	0.42
2:IE:148:GLY:O	2:IE:151:SER:OG	2.37	0.42
2:IE:255:PHE:CE1	2:IE:318:LEU:HD11	2.54	0.42
2:JA:105:ARG:HH12	3:JB:253:ARG:CD	2.33	0.42
3:JB:242:LEU:HD23	3:JB:242:LEU:H	1.84	0.42
3:JF:88:ARG:HG3	3:JF:91:ASN:H	1.84	0.42
3:JF:180:THR:HB	3:JF:183:GLU:CD	2.45	0.42
3:JF:218:LYS:HB2	3:JF:277:SER:HB3	2.02	0.42
2:KA:88:HIS:O	2:KA:91:GLN:HG2	2.19	0.42
2:KC:105:ARG:HH12	3:KD:253:ARG:CD	2.30	0.42
3:KD:319:PHE:CE2	3:KD:328:VAL:HG13	2.54	0.42
3:KF:259:MET:HG3	3:KF:268:PHE:CE2	2.54	0.42
3:KF:425:MET:HA	3:KF:425:MET:HE3	2.01	0.42
2:LA:148:GLY:O	2:LA:151:SER:OG	2.37	0.42
3:LB:141:LEU:HD22	3:LB:172:MET:HB3	2.01	0.42
3:LB:165:ILE:HG12	3:LB:253:ARG:NH2	2.34	0.42
3:LD:271:GLY:HA2	3:LD:302:MET:HE3	2.02	0.42
2:LE:148:GLY:O	2:LE:151:SER:OG	2.37	0.42
3:LF:54:ASN:OD1	3:LF:64:ARG:NH1	2.52	0.42
3:LF:141:LEU:HD22	3:LF:172:MET:HB3	2.01	0.42
3:LF:259:MET:HG3	3:LF:268:PHE:CE2	2.54	0.42
2:MC:385:ALA:O	2:MC:389:ALA:N	2.52	0.42
3:MD:242:LEU:HD23	3:MD:242:LEU:H	1.84	0.42
2:ME:385:ALA:O	2:ME:389:ALA:N	2.52	0.42
3:MF:421:ALA:O	3:MF:425:MET:HG2	2.20	0.42
3:NB:271:GLY:HA2	3:NB:302:MET:HE3	2.02	0.42
3:ND:172:MET:HE3	3:ND:387:LEU:HD13	2.01	0.42
3:ND:259:MET:HG3	3:ND:268:PHE:CE2	2.54	0.42
3:ND:293:GLN:HA	3:ND:296:PHE:CE1	2.55	0.42
3:NF:259:MET:HG3	3:NF:268:PHE:CE2	2.54	0.42
3:NF:271:GLY:HA2	3:NF:302:MET:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:141:LEU:HD22	3:AB:172:MET:HB3	2.01	0.42
3:AB:271:GLY:HA2	3:AB:302:MET:HE3	2.02	0.42
3:AD:172:MET:HE3	3:AD:387:LEU:HD13	2.01	0.42
3:AD:425:MET:HA	3:AD:425:MET:HE3	2.01	0.42
3:AF:172:MET:HE3	3:AF:387:LEU:HD13	2.01	0.42
2:BA:385:ALA:O	2:BA:389:ALA:N	2.52	0.42
3:BB:141:LEU:HD22	3:BB:172:MET:HB3	2.01	0.42
2:BC:385:ALA:O	2:BC:389:ALA:N	2.52	0.42
2:BC:401:LYS:HD3	3:BD:346:TRP:NE1	2.22	0.42
3:BD:259:MET:HG3	3:BD:268:PHE:CE2	2.54	0.42
3:BF:259:MET:HG3	3:BF:268:PHE:CE2	2.54	0.42
2:CC:12:ALA:HB2	4:CC:501:GTP:C8	2.54	0.42
2:CC:296:PHE:CD1	2:CC:296:PHE:C	2.97	0.42
2:CE:422:ARG:CB	2:CE:425:MET:HE2	2.38	0.42
2:DA:66:VAL:HG23	2:DA:91:GLN:O	2.20	0.42
2:DA:385:ALA:O	2:DA:389:ALA:N	2.52	0.42
3:DD:143:GLY:N	3:DD:183:GLU:OE1	2.45	0.42
3:DD:158:ARG:NH2	3:DD:164:ARG:O	2.39	0.42
3:DD:221:THR:HA	2:DE:326:LYS:HZ3	1.83	0.42
3:DD:271:GLY:HA2	3:DD:302:MET:HE3	2.02	0.42
2:EA:385:ALA:O	2:EA:389:ALA:N	2.52	0.42
3:EB:75:MET:SD	3:EB:79:ARG:HD3	2.59	0.42
2:EC:66:VAL:HG23	2:EC:91:GLN:O	2.20	0.42
2:EC:74:VAL:O	2:EC:78:VAL:HG23	2.19	0.42
3:ED:6:HIS:ND1	3:ED:136:GLN:HG2	2.34	0.42
3:ED:271:GLY:HA2	3:ED:302:MET:HE3	2.02	0.42
3:EF:180:THR:HB	3:EF:183:GLU:CD	2.45	0.42
3:EF:271:GLY:HA2	3:EF:302:MET:HE3	2.02	0.42
2:FA:107:HIS:ND1	2:FA:151:SER:OG	2.43	0.42
2:FA:148:GLY:O	2:FA:151:SER:OG	2.37	0.42
3:FB:88:ARG:HH22	3:GB:283:TYR:HB3	1.84	0.42
3:FB:88:ARG:HG3	3:FB:91:ASN:H	1.84	0.42
3:FB:209:LEU:HD13	3:FB:227:LEU:HB3	2.02	0.42
3:FD:209:LEU:HD13	3:FD:227:LEU:HB3	2.02	0.42
3:FF:319:PHE:CE2	3:FF:328:VAL:HG13	2.54	0.42
2:GA:385:ALA:O	2:GA:389:ALA:N	2.52	0.42
3:GD:6:HIS:ND1	3:GD:136:GLN:HG2	2.34	0.42
3:GD:145:THR:HG22	3:GD:149:MET:HE2	2.01	0.42
2:GE:66:VAL:HG23	2:GE:91:GLN:O	2.20	0.42
2:HA:385:ALA:O	2:HA:389:ALA:N	2.52	0.42
2:HC:385:ALA:O	2:HC:389:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HD:218:LYS:HB2	3:HD:277:SER:HB3	2.02	0.42
2:HE:105:ARG:HH12	3:HF:253:ARG:HD2	1.84	0.42
2:HE:148:GLY:O	2:HE:151:SER:OG	2.37	0.42
2:HE:385:ALA:O	2:HE:389:ALA:N	2.52	0.42
3:HF:209:LEU:HD13	3:HF:227:LEU:HB3	2.02	0.42
3:HF:251:ASP:OD1	3:HF:254:LYS:HG2	2.19	0.42
3:HF:421:ALA:O	3:HF:425:MET:HG2	2.20	0.42
2:IA:229:ARG:HH11	2:IA:366:GLY:HA2	1.85	0.42
3:IB:242:LEU:HD23	3:IB:242:LEU:H	1.84	0.42
3:IB:293:GLN:HA	3:IB:296:PHE:CE1	2.55	0.42
2:IC:255:PHE:CE1	2:IC:318:LEU:HD11	2.54	0.42
2:IE:57:GLY:H	2:JE:285:GLN:CB	2.33	0.42
3:IF:172:MET:HE3	3:IF:387:LEU:HD13	2.01	0.42
3:IF:209:LEU:HD13	3:IF:227:LEU:HB3	2.02	0.42
3:IF:259:MET:HG3	3:IF:268:PHE:CE2	2.54	0.42
3:JB:258:ASN:O	3:JB:314:THR:HG21	2.20	0.42
3:JB:425:MET:HA	3:JB:425:MET:HE3	2.01	0.42
3:JD:242:LEU:HD23	3:JD:242:LEU:H	1.84	0.42
3:JD:293:GLN:HA	3:JD:296:PHE:CE1	2.55	0.42
3:JF:12:CYS:SG	6:JF:501:GDP:H5'	2.59	0.42
3:JF:101:ASN:HA	3:JF:144:GLY:N	2.33	0.42
3:JF:259:MET:HG3	3:JF:268:PHE:CE2	2.54	0.42
2:KA:222:PRO:HD2	3:KB:326:LYS:CE	2.50	0.42
2:KA:296:PHE:CD1	2:KA:296:PHE:C	2.97	0.42
3:KB:259:MET:HG3	3:KB:268:PHE:CE2	2.54	0.42
3:KD:180:THR:HB	3:KD:183:GLU:CD	2.45	0.42
3:KD:259:MET:HG3	3:KD:268:PHE:CE2	2.54	0.42
3:KD:425:MET:HE3	3:KD:425:MET:HA	2.00	0.42
2:KE:133:GLN:NE2	2:KE:251:ASP:OD1	2.52	0.42
3:KF:180:THR:HB	3:KF:183:GLU:CD	2.45	0.42
3:KF:209:LEU:HD13	3:KF:227:LEU:HB3	2.02	0.42
3:KF:258:ASN:O	3:KF:314:THR:HG21	2.20	0.42
2:LA:255:PHE:CE1	2:LA:318:LEU:HD11	2.54	0.42
3:LB:293:GLN:HA	3:LB:296:PHE:CE1	2.55	0.42
3:LB:421:ALA:O	3:LB:425:MET:HG2	2.20	0.42
2:LC:255:PHE:CE1	2:LC:318:LEU:HD11	2.54	0.42
3:LD:259:MET:HG3	3:LD:268:PHE:CE2	2.54	0.42
3:LD:421:ALA:O	3:LD:425:MET:HG2	2.19	0.42
2:LE:407:TRP:CZ3	3:LF:257:VAL:O	2.72	0.42
3:LF:6:HIS:ND1	3:LF:136:GLN:HG2	2.34	0.42
3:LF:165:ILE:HG12	3:LF:253:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LF:258:ASN:O	3:LF:314:THR:HG21	2.20	0.42
3:LF:421:ALA:O	3:LF:425:MET:HG2	2.19	0.42
2:MA:255:PHE:CE1	2:MA:318:LEU:HD11	2.54	0.42
3:MB:75:MET:SD	3:MB:79:ARG:HD3	2.59	0.42
3:MB:258:ASN:O	3:MB:314:THR:HG21	2.20	0.42
3:MB:293:GLN:HA	3:MB:296:PHE:CE1	2.55	0.42
3:MB:315:VAL:O	3:MB:351:VAL:HA	2.20	0.42
3:MD:75:MET:SD	3:MD:79:ARG:HD3	2.60	0.42
3:MD:258:ASN:O	3:MD:314:THR:HG21	2.20	0.42
3:MF:112:ALA:O	3:MF:115:VAL:HG12	2.18	0.42
3:MF:158:ARG:NH2	3:MF:164:ARG:O	2.38	0.42
3:MF:315:VAL:O	3:MF:351:VAL:HA	2.20	0.42
3:NB:293:GLN:HA	3:NB:296:PHE:CE1	2.55	0.42
2:NC:74:VAL:O	2:NC:78:VAL:HG23	2.19	0.42
2:NC:210:TYR:CE1	2:NC:227:LEU:HD11	2.49	0.42
2:NE:74:VAL:O	2:NE:78:VAL:HG23	2.19	0.42
3:NF:141:LEU:HD22	3:NF:172:MET:HB3	2.01	0.42
1:1C:23:TRP:O	1:1C:26:ASN:HB2	2.20	0.42
2:AA:255:PHE:CE1	2:AA:318:LEU:HD11	2.54	0.42
2:AA:280:LYS:HE3	2:AA:280:LYS:CA	2.42	0.42
3:AB:75:MET:SD	3:AB:79:ARG:HD3	2.59	0.42
3:AB:172:MET:HE3	3:AB:387:LEU:HD13	2.01	0.42
2:AC:255:PHE:CE1	2:AC:318:LEU:HD11	2.54	0.42
3:AD:75:MET:SD	3:AD:79:ARG:HD3	2.59	0.42
3:AD:145:THR:HG22	3:AD:149:MET:HE2	2.01	0.42
3:AD:421:ALA:O	3:AD:425:MET:HG2	2.20	0.42
3:AF:88:ARG:HG3	3:AF:91:ASN:H	1.84	0.42
3:BB:75:MET:SD	3:BB:79:ARG:HD3	2.60	0.42
2:BC:224:TYR:HE1	3:BD:325:MET:HG3	1.84	0.42
3:BF:141:LEU:HD22	3:BF:172:MET:HB3	2.01	0.42
2:CA:133:GLN:NE2	2:CA:251:ASP:OD1	2.52	0.42
2:CC:88:HIS:O	2:CC:91:GLN:HG2	2.19	0.42
2:CC:232:SER:OG	2:CC:233:GLN:OE1	2.36	0.42
3:CD:12:CYS:SG	6:CD:501:GDP:H5'	2.59	0.42
3:CD:101:ASN:HA	3:CD:144:GLY:N	2.33	0.42
3:CD:258:ASN:O	3:CD:314:THR:HG21	2.20	0.42
2:CE:12:ALA:HB2	4:CE:501:GTP:C8	2.54	0.42
2:CE:296:PHE:CD1	2:CE:296:PHE:C	2.97	0.42
3:CF:101:ASN:HA	3:CF:144:GLY:N	2.33	0.42
3:DB:209:LEU:HD13	3:DB:227:LEU:HB3	2.02	0.42
3:DB:271:GLY:HA2	3:DB:302:MET:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DB:293:GLN:HA	3:DB:296:PHE:CE1	2.55	0.42
3:DD:209:LEU:HD13	3:DD:227:LEU:HB3	2.02	0.42
3:DD:293:GLN:HA	3:DD:296:PHE:CE1	2.55	0.42
3:DF:88:ARG:HG3	3:DF:91:ASN:H	1.84	0.42
3:DF:209:LEU:HD13	3:DF:227:LEU:HB3	2.02	0.42
3:EB:271:GLY:HA2	3:EB:302:MET:HE3	2.02	0.42
3:EB:421:ALA:O	3:EB:425:MET:HG2	2.20	0.42
2:EE:255:PHE:CE1	2:EE:318:LEU:HD11	2.54	0.42
2:EE:385:ALA:O	2:EE:389:ALA:N	2.52	0.42
3:EF:421:ALA:O	3:EF:425:MET:HG2	2.19	0.42
3:FB:218:LYS:HB2	3:FB:277:SER:HB3	2.02	0.42
3:FB:293:GLN:HA	3:FB:296:PHE:CE1	2.55	0.42
3:FB:386:GLU:OE1	3:FB:389:LYS:NZ	2.53	0.42
2:FC:224:TYR:CE1	3:FD:325:MET:HE2	2.55	0.42
3:FD:144:GLY:N	6:FD:501:GDP:O2B	2.52	0.42
3:FD:218:LYS:HB2	3:FD:277:SER:HB3	2.02	0.42
3:FD:293:GLN:HA	3:FD:296:PHE:CE1	2.55	0.42
3:FF:88:ARG:HG3	3:FF:91:ASN:H	1.84	0.42
3:FF:209:LEU:HD13	3:FF:227:LEU:HB3	2.02	0.42
3:FF:315:VAL:O	3:FF:351:VAL:HA	2.20	0.42
3:FF:421:ALA:O	3:FF:425:MET:HG2	2.19	0.42
3:GB:259:MET:HG3	3:GB:268:PHE:CE2	2.54	0.42
2:GC:148:GLY:O	2:GC:151:SER:OG	2.37	0.42
2:GC:232:SER:OG	2:GC:233:GLN:OE1	2.36	0.42
2:GC:385:ALA:O	2:GC:389:ALA:N	2.52	0.42
3:GD:60:LYS:HE3	3:HD:283:TYR:HA	2.01	0.42
3:GD:293:GLN:HA	3:GD:296:PHE:CE1	2.55	0.42
3:GF:6:HIS:ND1	3:GF:136:GLN:HG2	2.34	0.42
3:GF:293:GLN:HA	3:GF:296:PHE:CE1	2.55	0.42
3:HB:315:VAL:O	3:HB:351:VAL:HA	2.20	0.42
7:HB:502:TA1:H472	7:HB:502:TA1:H021	1.88	0.42
2:HC:148:GLY:O	2:HC:151:SER:OG	2.37	0.42
3:HD:315:VAL:O	3:HD:351:VAL:HA	2.20	0.42
2:HE:224:TYR:HE1	3:HF:325:MET:HG3	1.80	0.42
3:HF:293:GLN:HA	3:HF:296:PHE:CE1	2.55	0.42
2:IA:74:VAL:O	2:IA:78:VAL:HG23	2.19	0.42
3:IB:209:LEU:HD13	3:IB:227:LEU:HB3	2.02	0.42
3:IB:259:MET:HG3	3:IB:268:PHE:CE2	2.54	0.42
2:IC:229:ARG:HH11	2:IC:366:GLY:HA2	1.85	0.42
3:JB:12:CYS:SG	6:JB:501:GDP:H5'	2.59	0.42
3:JB:88:ARG:HG3	3:JB:91:ASN:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:180:THR:HB	3:JB:183:GLU:CD	2.45	0.42
3:JD:258:ASN:O	3:JD:314:THR:HG21	2.20	0.42
7:JD:502:TA1:H472	7:JD:502:TA1:H021	1.88	0.42
3:JF:242:LEU:HD23	3:JF:242:LEU:H	1.84	0.42
3:JF:258:ASN:O	3:JF:314:THR:HG21	2.20	0.42
2:KA:73:THR:HB	3:KB:249:ASN:ND2	2.33	0.42
2:KA:255:PHE:CE1	2:KA:318:LEU:HD11	2.54	0.42
3:KB:180:THR:HB	3:KB:183:GLU:CD	2.45	0.42
3:KB:258:ASN:O	3:KB:314:THR:HG21	2.20	0.42
3:KB:271:GLY:HA2	3:KB:302:MET:HE3	2.02	0.42
3:KB:421:ALA:O	3:KB:425:MET:HG2	2.20	0.42
3:KB:425:MET:HA	3:KB:425:MET:HE3	2.00	0.42
3:KD:258:ASN:O	3:KD:314:THR:HG21	2.20	0.42
3:KD:271:GLY:HA2	3:KD:302:MET:HE3	2.02	0.42
3:KD:293:GLN:HA	3:KD:296:PHE:CE1	2.55	0.42
3:LB:218:LYS:HB2	3:LB:277:SER:HB3	2.02	0.42
3:LB:258:ASN:O	3:LB:314:THR:HG21	2.20	0.42
3:LD:218:LYS:HB2	3:LD:277:SER:HB3	2.02	0.42
3:LD:258:ASN:O	3:LD:314:THR:HG21	2.20	0.42
3:LD:293:GLN:HA	3:LD:296:PHE:CE1	2.55	0.42
2:LE:255:PHE:CE1	2:LE:318:LEU:HD11	2.54	0.42
3:LF:218:LYS:HB2	3:LF:277:SER:HB3	2.02	0.42
3:LF:271:GLY:HA2	3:LF:302:MET:HE3	2.02	0.42
3:MB:12:CYS:SG	6:MB:501:GDP:H5'	2.59	0.42
3:MD:112:ALA:O	3:MD:115:VAL:HG12	2.18	0.42
3:MD:141:LEU:HD22	3:MD:172:MET:HB3	2.01	0.42
3:MD:172:MET:HE3	3:MD:387:LEU:HD13	2.01	0.42
3:MD:293:GLN:HA	3:MD:296:PHE:CE1	2.55	0.42
3:MD:315:VAL:O	3:MD:351:VAL:HA	2.20	0.42
3:MD:421:ALA:O	3:MD:425:MET:HG2	2.20	0.42
2:ME:210:TYR:CE1	2:ME:227:LEU:HD11	2.49	0.42
3:MF:242:LEU:H	3:MF:242:LEU:HD23	1.84	0.42
2:NA:74:VAL:O	2:NA:78:VAL:HG23	2.19	0.42
2:NA:255:PHE:CE1	2:NA:318:LEU:HD11	2.54	0.42
3:NB:259:MET:HG3	3:NB:268:PHE:CE2	2.54	0.42
3:NB:332:MET:O	3:NB:336:GLN:NE2	2.45	0.42
3:ND:141:LEU:HD22	3:ND:172:MET:HB3	2.01	0.42
3:NF:172:MET:HE3	3:NF:387:LEU:HD13	2.01	0.42
3:NF:242:LEU:HD23	3:NF:242:LEU:H	1.84	0.42
3:NF:358:ILE:HD12	3:NF:358:ILE:HA	1.94	0.42
3:NF:425:MET:HA	3:NF:425:MET:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:421:ALA:O	3:AB:425:MET:HG2	2.20	0.42
3:AD:141:LEU:HD22	3:AD:172:MET:HB3	2.01	0.42
3:AD:315:VAL:O	3:AD:351:VAL:HA	2.20	0.42
3:AF:145:THR:HG22	3:AF:149:MET:HE2	2.01	0.42
3:BB:293:GLN:HA	3:BB:296:PHE:CE1	2.55	0.42
3:BD:141:LEU:HD22	3:BD:172:MET:HB3	2.01	0.42
3:BD:293:GLN:HA	3:BD:296:PHE:CE1	2.55	0.42
3:BD:315:VAL:O	3:BD:351:VAL:HA	2.20	0.42
2:CA:88:HIS:O	2:CA:91:GLN:HG2	2.19	0.42
2:CA:232:SER:OG	2:CA:233:GLN:OE1	2.36	0.42
2:CA:296:PHE:C	2:CA:296:PHE:CD1	2.97	0.42
3:CB:242:LEU:HD23	3:CB:242:LEU:H	1.84	0.42
3:CB:320:ARG:O	3:CB:323:MET:HE1	2.20	0.42
3:CD:320:ARG:O	3:CD:323:MET:HE1	2.20	0.42
2:CE:88:HIS:O	2:CE:91:GLN:HG2	2.19	0.42
3:CF:12:CYS:SG	6:CF:501:GDP:H5'	2.59	0.42
3:CF:242:LEU:HD23	3:CF:242:LEU:H	1.84	0.42
3:CF:258:ASN:O	3:CF:314:THR:HG21	2.20	0.42
3:CF:320:ARG:O	3:CF:323:MET:HE1	2.20	0.42
2:DA:12:ALA:HB2	4:DA:501:GTP:C8	2.54	0.42
2:DA:296:PHE:CD1	2:DA:296:PHE:C	2.97	0.42
3:DB:386:GLU:OE1	3:DB:389:LYS:NZ	2.53	0.42
3:DB:425:MET:HA	3:DB:425:MET:HE3	2.00	0.42
2:DC:66:VAL:HG23	2:DC:91:GLN:O	2.20	0.42
3:DD:386:GLU:OE1	3:DD:389:LYS:NZ	2.53	0.42
2:DE:66:VAL:HG23	2:DE:91:GLN:O	2.20	0.42
3:DF:180:THR:HB	3:DF:183:GLU:CD	2.45	0.42
3:DF:425:MET:HE3	3:DF:425:MET:HA	2.00	0.42
2:EC:210:TYR:CE1	2:EC:227:LEU:HD11	2.49	0.42
2:EC:296:PHE:CD1	2:EC:296:PHE:C	2.97	0.42
3:ED:251:ASP:OD1	3:ED:254:LYS:HG2	2.19	0.42
2:FA:229:ARG:HH11	2:FA:366:GLY:HA2	1.85	0.42
3:FB:144:GLY:N	6:FB:501:GDP:O2B	2.52	0.42
3:FB:145:THR:HG22	3:FB:149:MET:HE2	2.01	0.42
3:FB:258:ASN:O	3:FB:314:THR:HG21	2.20	0.42
3:FB:315:VAL:O	3:FB:351:VAL:HA	2.20	0.42
3:FD:386:GLU:OE1	3:FD:389:LYS:NZ	2.53	0.42
3:FF:218:LYS:HB2	3:FF:277:SER:HB3	2.02	0.42
3:GB:293:GLN:HA	3:GB:296:PHE:CE1	2.55	0.42
3:GB:320:ARG:O	3:GB:323:MET:HE1	2.20	0.42
3:GD:259:MET:HG3	3:GD:268:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:GD:320:ARG:O	3:GD:323:MET:HE1	2.20	0.42
2:GE:296:PHE:CD1	2:GE:341:ILE:HD11	2.55	0.42
3:GF:259:MET:HG3	3:GF:268:PHE:CE2	2.54	0.42
3:HB:180:THR:HB	3:HB:183:GLU:CD	2.45	0.42
3:HD:293:GLN:HA	3:HD:296:PHE:CE1	2.55	0.42
2:HE:145:THR:OG1	4:HE:501:GTP:O2G	2.27	0.42
2:HE:229:ARG:HH11	2:HE:366:GLY:HA2	1.85	0.42
3:HF:315:VAL:O	3:HF:351:VAL:HA	2.20	0.42
2:IA:148:GLY:O	2:IA:151:SER:OG	2.37	0.42
3:ID:209:LEU:HD13	3:ID:227:LEU:HB3	2.02	0.42
3:ID:242:LEU:HD23	3:ID:242:LEU:H	1.84	0.42
3:ID:386:GLU:OE1	3:ID:389:LYS:NZ	2.53	0.42
2:IE:145:THR:OG1	4:IE:501:GTP:O2G	2.27	0.42
3:IF:242:LEU:HD23	3:IF:242:LEU:H	1.84	0.42
2:JA:148:GLY:O	2:JA:151:SER:OG	2.37	0.42
3:JB:141:LEU:HD22	3:JB:172:MET:HB3	2.01	0.42
3:JB:293:GLN:HA	3:JB:296:PHE:CE1	2.55	0.42
2:JC:148:GLY:O	2:JC:151:SER:OG	2.37	0.42
3:JD:12:CYS:SG	6:JD:501:GDP:H5'	2.59	0.42
3:JD:101:ASN:HA	3:JD:144:GLY:N	2.33	0.42
3:JD:141:LEU:HD22	3:JD:172:MET:HB3	2.01	0.42
3:JF:251:ASP:OD1	3:JF:254:LYS:HG2	2.19	0.42
2:KC:133:GLN:NE2	2:KC:251:ASP:OD1	2.52	0.42
3:KD:209:LEU:HD13	3:KD:227:LEU:HB3	2.02	0.42
3:KF:271:GLY:HA2	3:KF:302:MET:HE3	2.02	0.42
3:KF:293:GLN:HA	3:KF:296:PHE:CE1	2.55	0.42
2:LA:314:ALA:N	2:LA:380:ASN:OD1	2.50	0.42
3:LB:401:ARG:HD2	2:LC:346:TRP:CZ2	2.54	0.42
2:LC:314:ALA:N	2:LC:380:ASN:OD1	2.50	0.42
3:LD:54:ASN:OD1	3:LD:64:ARG:NH1	2.52	0.42
3:LF:293:GLN:HA	3:LF:296:PHE:CE1	2.55	0.42
2:MA:210:TYR:CE1	2:MA:227:LEU:HD11	2.49	0.42
3:MB:112:ALA:O	3:MB:115:VAL:HG12	2.18	0.42
3:MB:421:ALA:O	3:MB:425:MET:HG2	2.19	0.42
3:MF:180:THR:HB	3:MF:183:GLU:CD	2.45	0.42
3:MF:258:ASN:O	3:MF:314:THR:HG21	2.20	0.42
2:NA:229:ARG:HH11	2:NA:366:GLY:HA2	1.85	0.42
3:NB:425:MET:HA	3:NB:425:MET:HE3	2.00	0.42
3:NF:180:THR:HB	3:NF:183:GLU:CD	2.45	0.42
1:1C:62:ASN:C	2:AE:308:ARG:HD3	2.45	0.42
1:1E:81:ARG:O	1:1E:85:LYS:HD3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:210:TYR:CE1	2:AA:227:LEU:HD11	2.49	0.42
3:AB:315:VAL:O	3:AB:351:VAL:HA	2.20	0.42
2:AE:210:TYR:CE1	2:AE:227:LEU:HD11	2.49	0.42
3:AF:75:MET:SD	3:AF:79:ARG:HD3	2.59	0.42
3:AF:258:ASN:O	3:AF:314:THR:HG21	2.20	0.42
3:AF:425:MET:HE3	3:AF:425:MET:HA	2.01	0.42
2:BC:398:MET:HG3	3:BD:347:ILE:CD1	2.50	0.42
3:BD:75:MET:SD	3:BD:79:ARG:HD3	2.60	0.42
3:BD:260:VAL:HG13	3:BD:260:VAL:O	2.20	0.42
3:BF:75:MET:SD	3:BF:79:ARG:HD3	2.59	0.42
3:BF:293:GLN:HA	3:BF:296:PHE:CE1	2.55	0.42
2:CA:12:ALA:HB2	4:CA:501:GTP:C8	2.54	0.42
2:CA:66:VAL:HG23	2:CA:91:GLN:O	2.19	0.42
2:CA:212:ILE:HD13	2:CA:215:ARG:HH22	1.85	0.42
3:CB:101:ASN:HA	3:CB:144:GLY:N	2.33	0.42
3:CB:258:ASN:O	3:CB:314:THR:HG21	2.20	0.42
2:CC:89:PRO:HD2	2:DC:280:LYS:HZ3	1.85	0.42
2:CC:212:ILE:HD13	2:CC:215:ARG:HH22	1.85	0.42
3:CD:222:PRO:CD	2:CE:326:LYS:HZ3	2.31	0.42
3:CD:242:LEU:HD23	3:CD:242:LEU:H	1.84	0.42
2:CE:212:ILE:HD13	2:CE:215:ARG:HH22	1.85	0.42
2:CE:224:TYR:CD1	3:CF:247:GLN:NE2	2.88	0.42
3:DB:75:MET:SD	3:DB:79:ARG:HD3	2.59	0.42
2:DC:296:PHE:CD1	2:DC:341:ILE:HD11	2.55	0.42
2:DC:296:PHE:CD1	2:DC:296:PHE:C	2.97	0.42
3:DD:425:MET:HA	3:DD:425:MET:HE3	2.01	0.42
3:DF:271:GLY:HA2	3:DF:302:MET:HE3	2.02	0.42
3:DF:386:GLU:OE1	3:DF:389:LYS:NZ	2.53	0.42
2:EA:296:PHE:CD1	2:EA:296:PHE:C	2.97	0.42
3:EB:251:ASP:OD1	3:EB:254:LYS:HG2	2.19	0.42
3:EB:315:VAL:O	3:EB:351:VAL:HA	2.20	0.42
3:EB:386:GLU:OE1	3:EB:389:LYS:NZ	2.53	0.42
2:EC:255:PHE:CE1	2:EC:318:LEU:HD11	2.54	0.42
3:ED:315:VAL:O	3:ED:351:VAL:HA	2.20	0.42
2:EE:74:VAL:O	2:EE:78:VAL:HG23	2.19	0.42
2:EE:224:TYR:CE1	3:EF:325:MET:HE2	2.55	0.42
3:EF:386:GLU:OE1	3:EF:389:LYS:NZ	2.53	0.42
2:FC:148:GLY:O	2:FC:151:SER:OG	2.37	0.42
2:FC:229:ARG:HH11	2:FC:366:GLY:HA2	1.85	0.42
2:FC:296:PHE:CD1	2:FC:296:PHE:C	2.97	0.42
3:FD:145:THR:HG22	3:FD:149:MET:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FD:258:ASN:O	3:FD:314:THR:HG21	2.20	0.42
3:FD:315:VAL:O	3:FD:351:VAL:HA	2.20	0.42
2:FE:148:GLY:O	2:FE:151:SER:OG	2.37	0.42
2:FE:229:ARG:HH11	2:FE:366:GLY:HA2	1.84	0.42
2:FE:296:PHE:CD1	2:FE:296:PHE:C	2.97	0.42
3:FF:258:ASN:O	3:FF:314:THR:HG21	2.20	0.42
3:FF:293:GLN:HA	3:FF:296:PHE:CE1	2.55	0.42
3:FF:386:GLU:OE1	3:FF:389:LYS:NZ	2.53	0.42
2:GA:232:SER:OG	2:GA:233:GLN:OE1	2.36	0.42
3:GB:145:THR:HG22	3:GB:149:MET:HE2	2.01	0.42
2:GC:145:THR:OG1	4:GC:501:GTP:O2G	2.27	0.42
2:GC:296:PHE:CD1	2:GC:341:ILE:HD11	2.55	0.42
3:GD:386:GLU:OE1	3:GD:389:LYS:NZ	2.53	0.42
3:GF:209:LEU:HD13	3:GF:227:LEU:HB3	2.02	0.42
3:GF:320:ARG:O	3:GF:323:MET:HE1	2.20	0.42
3:GF:386:GLU:OE1	3:GF:389:LYS:NZ	2.53	0.42
2:HA:229:ARG:HH11	2:HA:366:GLY:HA2	1.85	0.42
2:HA:296:PHE:CD1	2:HA:341:ILE:HD11	2.55	0.42
2:HC:145:THR:OG1	4:HC:501:GTP:O2G	2.27	0.42
2:HC:229:ARG:HH11	2:HC:366:GLY:HA2	1.85	0.42
3:HD:180:THR:HB	3:HD:183:GLU:CD	2.45	0.42
3:IB:258:ASN:O	3:IB:314:THR:HG21	2.20	0.42
2:IC:119:LEU:HD12	2:IC:119:LEU:HA	1.86	0.42
2:IE:401:LYS:HE3	3:IF:346:TRP:HE1	1.85	0.42
3:IF:386:GLU:OE1	3:IF:389:LYS:NZ	2.53	0.42
2:JA:66:VAL:HG23	2:JA:91:GLN:O	2.20	0.42
2:JA:229:ARG:HH11	2:JA:366:GLY:HA2	1.84	0.42
3:JB:209:LEU:HD13	3:JB:227:LEU:HB3	2.02	0.42
2:JC:66:VAL:HG23	2:JC:91:GLN:O	2.20	0.42
2:JC:229:ARG:HH11	2:JC:366:GLY:HA2	1.85	0.42
2:JC:255:PHE:CE1	2:JC:318:LEU:HD11	2.54	0.42
3:JD:209:LEU:HD13	3:JD:227:LEU:HB3	2.02	0.42
2:JE:145:THR:OG1	4:JE:501:GTP:O2G	2.27	0.42
2:JE:148:GLY:O	2:JE:151:SER:OG	2.37	0.42
3:JF:141:LEU:HD22	3:JF:172:MET:HB3	2.01	0.42
2:KA:148:GLY:O	2:KA:151:SER:OG	2.37	0.42
3:KB:141:LEU:HD22	3:KB:172:MET:HB3	2.01	0.42
3:KB:172:MET:HE3	3:KB:387:LEU:HD13	2.01	0.42
3:KB:293:GLN:HA	3:KB:296:PHE:CE1	2.55	0.42
2:KC:255:PHE:CE1	2:KC:318:LEU:HD11	2.54	0.42
2:KE:148:GLY:O	2:KE:151:SER:OG	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KF:6:HIS:ND1	3:KF:136:GLN:HG2	2.34	0.42
3:KF:101:ASN:HA	3:KF:144:GLY:N	2.33	0.42
3:LB:54:ASN:OD1	3:LB:64:ARG:NH1	2.52	0.42
3:LB:180:THR:HB	3:LB:183:GLU:CD	2.45	0.42
3:LB:324:SER:OG	3:LB:325:MET:N	2.45	0.42
3:LD:180:THR:HB	3:LD:183:GLU:CD	2.45	0.42
2:LE:314:ALA:N	2:LE:380:ASN:OD1	2.50	0.42
3:LF:143:GLY:N	3:LF:183:GLU:OE1	2.45	0.42
3:LF:180:THR:HB	3:LF:183:GLU:CD	2.45	0.42
3:LF:260:VAL:O	3:LF:260:VAL:HG13	2.20	0.42
2:MC:255:PHE:CE1	2:MC:318:LEU:HD11	2.54	0.42
2:MC:296:PHE:CD1	2:MC:341:ILE:HD11	2.55	0.42
3:NB:141:LEU:HD22	3:NB:172:MET:HB3	2.01	0.42
3:ND:180:THR:HB	3:ND:183:GLU:CD	2.45	0.42
3:ND:258:ASN:O	3:ND:314:THR:HG21	2.20	0.42
3:ND:425:MET:HE3	3:ND:425:MET:HA	2.01	0.42
2:NE:85:GLN:OE1	2:NE:85:GLN:N	2.37	0.42
2:NE:88:HIS:O	2:NE:91:GLN:HG2	2.19	0.42
2:NE:229:ARG:HH11	2:NE:366:GLY:HA2	1.85	0.42
1:1B:81:ARG:O	1:1B:85:LYS:HD3	2.20	0.42
1:1C:62:ASN:O	2:AE:309:HIS:CD2	2.60	0.42
2:AA:400:ALA:HB3	3:AB:346:TRP:CH2	2.47	0.42
3:AD:107:HIS:HD2	3:AD:108:TYR:CE1	2.38	0.42
3:AD:258:ASN:O	3:AD:314:THR:HG21	2.20	0.42
2:AE:255:PHE:CE1	2:AE:318:LEU:HD11	2.54	0.42
3:AF:141:LEU:HD22	3:AF:172:MET:HB3	2.01	0.42
3:BB:258:ASN:O	3:BB:314:THR:HG21	2.20	0.42
3:BB:260:VAL:O	3:BB:260:VAL:HG13	2.20	0.42
2:BC:66:VAL:HG23	2:BC:91:GLN:O	2.19	0.42
3:BF:260:VAL:HG13	3:BF:260:VAL:O	2.20	0.42
3:BF:315:VAL:O	3:BF:351:VAL:HA	2.20	0.42
3:CB:260:VAL:O	3:CB:260:VAL:HG13	2.20	0.42
3:CD:260:VAL:O	3:CD:260:VAL:HG13	2.20	0.42
3:CF:260:VAL:HG13	3:CF:260:VAL:O	2.20	0.42
2:DA:255:PHE:CE1	2:DA:318:LEU:HD11	2.54	0.42
2:DA:296:PHE:CD1	2:DA:341:ILE:HD11	2.55	0.42
3:DB:88:ARG:HG3	3:DB:91:ASN:H	1.84	0.42
3:DD:75:MET:SD	3:DD:79:ARG:HD3	2.60	0.42
2:DE:296:PHE:CD1	2:DE:296:PHE:C	2.97	0.42
2:DE:296:PHE:CD1	2:DE:341:ILE:HD11	2.55	0.42
3:DF:332:MET:O	3:DF:336:GLN:NE2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EB:107:HIS:HD2	3:EB:108:TYR:CE1	2.38	0.42
3:ED:107:HIS:HD2	3:ED:108:TYR:CE1	2.38	0.42
3:ED:386:GLU:OE1	3:ED:389:LYS:NZ	2.53	0.42
2:EE:210:TYR:CE1	2:EE:227:LEU:HD11	2.49	0.42
2:EE:296:PHE:C	2:EE:296:PHE:CD1	2.97	0.42
3:EF:209:LEU:HD13	3:EF:227:LEU:HB3	2.02	0.42
3:EF:293:GLN:HA	3:EF:296:PHE:CE1	2.55	0.42
2:FA:74:VAL:O	2:FA:78:VAL:HG23	2.19	0.42
2:FA:296:PHE:CD1	2:FA:341:ILE:HD11	2.55	0.42
2:FA:296:PHE:CD1	2:FA:296:PHE:C	2.97	0.42
3:FB:259:MET:HG3	3:FB:268:PHE:CE2	2.54	0.42
3:FD:320:ARG:O	3:FD:323:MET:HE1	2.20	0.42
3:FF:145:THR:HG22	3:FF:149:MET:HE2	2.01	0.42
3:FF:260:VAL:HG13	3:FF:260:VAL:O	2.20	0.42
3:FF:320:ARG:O	3:FF:323:MET:HE1	2.20	0.42
2:GA:74:VAL:O	2:GA:78:VAL:HG23	2.19	0.42
2:GA:296:PHE:CD1	2:GA:341:ILE:HD11	2.55	0.42
3:GB:258:ASN:O	3:GB:314:THR:HG21	2.20	0.42
3:GB:260:VAL:HG13	3:GB:260:VAL:O	2.20	0.42
3:GD:260:VAL:HG13	3:GD:260:VAL:O	2.20	0.42
2:GE:74:VAL:O	2:GE:78:VAL:HG23	2.19	0.42
2:GE:85:GLN:OE1	2:GE:85:GLN:N	2.37	0.42
2:GE:88:HIS:O	2:GE:91:GLN:HG2	2.19	0.42
2:GE:280:LYS:HE3	2:GE:280:LYS:CA	2.42	0.42
3:GF:260:VAL:O	3:GF:260:VAL:HG13	2.20	0.42
3:HB:88:ARG:HG3	3:HB:91:ASN:H	1.84	0.42
3:HB:293:GLN:HA	3:HB:296:PHE:CE1	2.55	0.42
3:HB:386:GLU:OE1	3:HB:389:LYS:NZ	2.53	0.42
2:HC:296:PHE:CD1	2:HC:341:ILE:HD11	2.55	0.42
3:HD:143:GLY:N	3:HD:183:GLU:OE1	2.45	0.42
2:HE:296:PHE:CD1	2:HE:341:ILE:HD11	2.55	0.42
2:IC:145:THR:OG1	4:IC:501:GTP:O2G	2.27	0.42
2:IC:404:PHE:CE2	3:ID:261:PRO:HA	2.54	0.42
3:ID:258:ASN:O	3:ID:314:THR:HG21	2.20	0.42
3:IF:258:ASN:O	3:IF:314:THR:HG21	2.20	0.42
2:JA:255:PHE:CE1	2:JA:318:LEU:HD11	2.54	0.42
3:JB:315:VAL:O	3:JB:351:VAL:HA	2.20	0.42
3:JB:421:ALA:O	3:JB:425:MET:HG2	2.20	0.42
3:JD:69:ASP:OD2	3:JD:74:THR:OG1	2.18	0.42
2:JE:66:VAL:HG23	2:JE:91:GLN:O	2.20	0.42
2:JE:229:ARG:HH11	2:JE:366:GLY:HA2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:JE:255:PHE:CE1	2:JE:318:LEU:HD11	2.54	0.42
3:JF:107:HIS:HD2	3:JF:108:TYR:CE1	2.38	0.42
3:KB:6:HIS:ND1	3:KB:136:GLN:HG2	2.34	0.42
3:KB:209:LEU:HD13	3:KB:227:LEU:HB3	2.02	0.42
2:KC:148:GLY:O	2:KC:151:SER:OG	2.37	0.42
2:KC:229:ARG:HH11	2:KC:366:GLY:HA2	1.85	0.42
4:KC:501:GTP:PG	3:KD:254:LYS:NZ	2.92	0.42
3:KD:101:ASN:HA	3:KD:144:GLY:N	2.33	0.42
3:KD:141:LEU:HD22	3:KD:172:MET:HB3	2.01	0.42
3:KD:260:VAL:O	3:KD:260:VAL:HG13	2.20	0.42
3:KD:315:VAL:O	3:KD:351:VAL:HA	2.20	0.42
2:KE:229:ARG:HH11	2:KE:366:GLY:HA2	1.85	0.42
3:KF:141:LEU:HD22	3:KF:172:MET:HB3	2.01	0.42
3:KF:315:VAL:O	3:KF:351:VAL:HA	2.20	0.42
2:LA:296:PHE:CD1	2:LA:341:ILE:HD11	2.55	0.42
3:LB:260:VAL:HG13	3:LB:260:VAL:O	2.20	0.42
2:LC:296:PHE:CD1	2:LC:341:ILE:HD11	2.55	0.42
3:LD:260:VAL:HG13	3:LD:260:VAL:O	2.20	0.42
3:LD:425:MET:HA	3:LD:425:MET:HE3	2.00	0.42
2:LE:296:PHE:CD1	2:LE:341:ILE:HD11	2.55	0.42
3:LF:60:LYS:HE3	3:MF:282:GLN:NE2	2.35	0.42
2:MA:296:PHE:CD1	2:MA:341:ILE:HD11	2.55	0.42
3:MB:172:MET:HE3	3:MB:387:LEU:HD13	2.01	0.42
3:MB:320:ARG:O	3:MB:323:MET:HE1	2.20	0.42
2:MC:210:TYR:CE1	2:MC:227:LEU:HD11	2.49	0.42
2:ME:224:TYR:CD2	4:ME:501:GTP:C6	3.08	0.42
2:ME:229:ARG:HH11	2:ME:366:GLY:HA2	1.85	0.42
2:ME:255:PHE:CE1	2:ME:318:LEU:HD11	2.54	0.42
2:ME:296:PHE:CD1	2:ME:341:ILE:HD11	2.55	0.42
2:ME:326:LYS:HB2	2:ME:326:LYS:HE3	1.87	0.42
3:MF:293:GLN:HA	3:MF:296:PHE:CE1	2.55	0.42
2:NA:88:HIS:O	2:NA:91:GLN:HG2	2.19	0.42
3:NB:242:LEU:H	3:NB:242:LEU:HD23	1.84	0.42
2:NC:229:ARG:HH11	2:NC:366:GLY:HA2	1.85	0.42
3:ND:242:LEU:HD23	3:ND:242:LEU:H	1.84	0.42
2:NE:66:VAL:HG23	2:NE:91:GLN:O	2.19	0.42
2:NE:255:PHE:CE1	2:NE:318:LEU:HD11	2.54	0.42
3:NF:258:ASN:O	3:NF:314:THR:HG21	2.20	0.42
1:1B:61:HIS:HD2	2:AC:311:LYS:CG	2.33	0.41
3:AB:107:HIS:HD2	3:AB:108:TYR:CE1	2.38	0.41
3:AB:145:THR:HG22	3:AB:149:MET:HE2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:260:VAL:HG13	3:AB:260:VAL:O	2.20	0.41
3:AF:107:HIS:HD2	3:AF:108:TYR:CE1	2.38	0.41
3:AF:315:VAL:O	3:AF:351:VAL:HA	2.20	0.41
3:BB:145:THR:HG22	3:BB:149:MET:HE2	2.01	0.41
3:BB:315:VAL:O	3:BB:351:VAL:HA	2.20	0.41
2:BC:296:PHE:CD1	2:BC:341:ILE:HD11	2.55	0.41
3:BD:242:LEU:HD23	3:BD:242:LEU:H	1.84	0.41
2:BE:296:PHE:CD1	2:BE:341:ILE:HD11	2.55	0.41
3:BF:242:LEU:HD23	3:BF:242:LEU:H	1.84	0.41
2:CC:66:VAL:HG23	2:CC:91:GLN:O	2.20	0.41
2:CC:422:ARG:CB	2:CC:425:MET:HE2	2.38	0.41
3:CD:69:ASP:OD2	3:CD:74:THR:OG1	2.18	0.41
2:CE:66:VAL:HG23	2:CE:91:GLN:O	2.20	0.41
3:CF:69:ASP:OD2	3:CF:74:THR:OG1	2.18	0.41
2:DC:212:ILE:HD13	2:DC:215:ARG:HH22	1.85	0.41
3:DD:88:ARG:HG3	3:DD:91:ASN:H	1.84	0.41
3:DF:32:PRO:HG3	3:DF:83:PHE:CE1	2.55	0.41
3:DF:258:ASN:O	3:DF:314:THR:HG21	2.20	0.41
2:EC:229:ARG:HH11	2:EC:366:GLY:HA2	1.85	0.41
2:EE:229:ARG:HH11	2:EE:366:GLY:HA2	1.85	0.41
3:EF:315:VAL:O	3:EF:351:VAL:HA	2.20	0.41
3:FB:101:ASN:HA	3:FB:144:GLY:N	2.33	0.41
3:FB:320:ARG:O	3:FB:323:MET:HE1	2.20	0.41
3:FD:259:MET:HG3	3:FD:268:PHE:CE2	2.54	0.41
3:FD:260:VAL:O	3:FD:260:VAL:HG13	2.20	0.41
2:FE:89:PRO:HD2	2:GE:280:LYS:HZ2	1.85	0.41
2:FE:101:ASN:H	3:FF:254:LYS:HZ2	1.68	0.41
2:FE:296:PHE:CD1	2:FE:341:ILE:HD11	2.55	0.41
3:FF:259:MET:HG3	3:FF:268:PHE:CE2	2.54	0.41
2:GA:88:HIS:O	2:GA:91:GLN:HG2	2.19	0.41
3:GB:107:HIS:HD2	3:GB:108:TYR:CE1	2.38	0.41
3:GB:386:GLU:OE1	3:GB:389:LYS:NZ	2.53	0.41
2:GC:74:VAL:O	2:GC:78:VAL:HG23	2.19	0.41
2:GC:88:HIS:O	2:GC:91:GLN:HG2	2.19	0.41
3:GD:107:HIS:HD2	3:GD:108:TYR:CE1	2.38	0.41
3:GD:258:ASN:O	3:GD:314:THR:HG21	2.20	0.41
3:GF:107:HIS:HD2	3:GF:108:TYR:CE1	2.38	0.41
3:GF:258:ASN:O	3:GF:314:THR:HG21	2.20	0.41
3:HB:260:VAL:O	3:HB:260:VAL:HG13	2.20	0.41
3:HD:386:GLU:OE1	3:HD:389:LYS:NZ	2.53	0.41
3:HF:180:THR:HB	3:HF:183:GLU:CD	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IB:251:ASP:OD1	3:IB:254:LYS:HG2	2.19	0.41
3:ID:251:ASP:OD1	3:ID:254:LYS:HG2	2.19	0.41
2:IE:56:THR:HB	2:JE:285:GLN:N	2.35	0.41
3:IF:251:ASP:OD1	3:IF:254:LYS:HG2	2.19	0.41
3:JB:101:ASN:HA	3:JB:144:GLY:N	2.33	0.41
3:JB:107:HIS:HD2	3:JB:108:TYR:CE1	2.38	0.41
3:JB:251:ASP:OD1	3:JB:254:LYS:HG2	2.19	0.41
3:JB:271:GLY:HA2	3:JB:302:MET:HE3	2.02	0.41
2:JC:222:PRO:O	3:JD:326:LYS:NZ	2.52	0.41
2:JC:296:PHE:CD1	2:JC:341:ILE:HD11	2.55	0.41
3:JD:107:HIS:HD2	3:JD:108:TYR:CE1	2.38	0.41
3:JD:251:ASP:OD1	3:JD:254:LYS:HG2	2.19	0.41
3:JD:315:VAL:O	3:JD:351:VAL:HA	2.20	0.41
3:JD:421:ALA:O	3:JD:425:MET:HG2	2.19	0.41
3:JF:209:LEU:HD13	3:JF:227:LEU:HB3	2.02	0.41
2:KA:133:GLN:NE2	2:KA:251:ASP:OD1	2.52	0.41
2:KA:224:TYR:CD2	4:KA:501:GTP:C6	3.08	0.41
3:KB:101:ASN:HA	3:KB:144:GLY:N	2.33	0.41
3:KB:315:VAL:O	3:KB:351:VAL:HA	2.20	0.41
3:KB:332:MET:O	3:KB:336:GLN:NE2	2.45	0.41
3:KD:6:HIS:ND1	3:KD:136:GLN:HG2	2.34	0.41
2:KE:255:PHE:CE1	2:KE:318:LEU:HD11	2.54	0.41
3:KF:260:VAL:HG13	3:KF:260:VAL:O	2.20	0.41
2:LA:224:TYR:CD2	4:LA:501:GTP:C6	3.09	0.41
2:LC:224:TYR:CD2	4:LC:501:GTP:C6	3.08	0.41
2:LE:224:TYR:CD2	4:LE:501:GTP:C6	3.09	0.41
2:MA:224:TYR:CD2	4:MA:501:GTP:C6	3.08	0.41
3:MB:158:ARG:NH2	3:MB:164:ARG:O	2.38	0.41
2:MC:224:TYR:CD2	4:MC:501:GTP:C6	3.09	0.41
2:MC:229:ARG:HH11	2:MC:366:GLY:HA2	1.85	0.41
3:MF:209:LEU:HD13	3:MF:227:LEU:HB3	2.02	0.41
3:MF:320:ARG:O	3:MF:323:MET:HE1	2.20	0.41
3:NB:180:THR:HB	3:NB:183:GLU:CD	2.45	0.41
2:NC:255:PHE:CE1	2:NC:318:LEU:HD11	2.54	0.41
2:NE:224:TYR:CD2	4:NE:501:GTP:C6	3.08	0.41
1:1A:81:ARG:O	1:1A:85:LYS:HD3	2.20	0.41
3:AB:258:ASN:O	3:AB:314:THR:HG21	2.20	0.41
3:AD:260:VAL:O	3:AD:260:VAL:HG13	2.20	0.41
2:BA:212:ILE:HD13	2:BA:215:ARG:HH22	1.85	0.41
2:BA:255:PHE:CE1	2:BA:318:LEU:HD11	2.54	0.41
2:BA:296:PHE:CD1	2:BA:341:ILE:HD11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BB:425:MET:HA	3:BB:425:MET:HE3	2.01	0.41
2:BC:212:ILE:HD13	2:BC:215:ARG:HH22	1.85	0.41
2:BC:229:ARG:HH11	2:BC:366:GLY:HA2	1.85	0.41
3:BD:60:LYS:NZ	3:CD:282:GLN:O	2.51	0.41
3:BD:145:THR:HG22	3:BD:149:MET:HE2	2.01	0.41
3:BD:258:ASN:O	3:BD:314:THR:HG21	2.20	0.41
2:BE:229:ARG:HH11	2:BE:366:GLY:HA2	1.85	0.41
3:BF:172:MET:HE3	3:BF:387:LEU:HD13	2.01	0.41
2:CA:296:PHE:CD1	2:CA:341:ILE:HD11	2.55	0.41
3:CB:75:MET:SD	3:CB:79:ARG:HD3	2.60	0.41
3:CB:293:GLN:HA	3:CB:296:PHE:CE1	2.55	0.41
2:CC:296:PHE:CD1	2:CC:341:ILE:HD11	2.55	0.41
3:CD:75:MET:SD	3:CD:79:ARG:HD3	2.59	0.41
3:CD:425:MET:HE3	3:CD:425:MET:HA	2.00	0.41
2:CE:296:PHE:CD1	2:CE:341:ILE:HD11	2.55	0.41
3:DB:32:PRO:HG3	3:DB:83:PHE:CE1	2.56	0.41
3:DB:145:THR:HG22	3:DB:149:MET:HE2	2.01	0.41
3:DB:320:ARG:O	3:DB:323:MET:HE1	2.20	0.41
3:DD:32:PRO:HG3	3:DD:83:PHE:CE1	2.56	0.41
3:DD:320:ARG:O	3:DD:323:MET:HE1	2.20	0.41
2:DE:212:ILE:HD13	2:DE:215:ARG:HH22	1.85	0.41
3:DF:260:VAL:HG13	3:DF:260:VAL:O	2.20	0.41
3:DF:293:GLN:HA	3:DF:296:PHE:CE1	2.55	0.41
2:EA:74:VAL:O	2:EA:78:VAL:HG23	2.19	0.41
2:EC:88:HIS:O	2:EC:91:GLN:HG2	2.19	0.41
4:EC:501:GTP:O3G	3:ED:254:LYS:NZ	2.53	0.41
3:EF:107:HIS:HD2	3:EF:108:TYR:CE1	2.38	0.41
3:FB:180:THR:HB	3:FB:183:GLU:CD	2.45	0.41
3:FB:260:VAL:HG13	3:FB:260:VAL:O	2.20	0.41
3:FB:271:GLY:HA2	3:FB:302:MET:HE3	2.02	0.41
2:FC:296:PHE:CD1	2:FC:341:ILE:HD11	2.55	0.41
3:FD:180:THR:HB	3:FD:183:GLU:CD	2.45	0.41
3:FD:271:GLY:HA2	3:FD:302:MET:HE3	2.02	0.41
3:FF:180:THR:HB	3:FF:183:GLU:CD	2.45	0.41
3:FF:271:GLY:HA2	3:FF:302:MET:HE3	2.02	0.41
3:GB:209:LEU:HD13	3:GB:227:LEU:HB3	2.02	0.41
3:GD:209:LEU:HD13	3:GD:227:LEU:HB3	2.02	0.41
2:HC:331:ALA:O	2:HC:334:THR:OG1	2.36	0.41
3:HD:88:ARG:HG3	3:HD:91:ASN:H	1.84	0.41
3:HD:260:VAL:O	3:HD:260:VAL:HG13	2.20	0.41
7:HD:502:TA1:H472	7:HD:502:TA1:H021	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:74:VAL:O	2:HE:78:VAL:HG23	2.19	0.41
3:HF:386:GLU:OE1	3:HF:389:LYS:NZ	2.53	0.41
2:IC:66:VAL:HG23	2:IC:91:GLN:O	2.20	0.41
2:IC:74:VAL:O	2:IC:78:VAL:HG23	2.19	0.41
2:IC:296:PHE:CD1	2:IC:341:ILE:HD11	2.55	0.41
3:ID:271:GLY:HA2	3:ID:302:MET:HE3	2.02	0.41
2:IE:66:VAL:HG23	2:IE:91:GLN:O	2.19	0.41
2:IE:74:VAL:O	2:IE:78:VAL:HG23	2.19	0.41
3:IF:271:GLY:HA2	3:IF:302:MET:HE3	2.02	0.41
2:JA:296:PHE:CD1	2:JA:341:ILE:HD11	2.55	0.41
2:JA:407:TRP:CH2	3:JB:260:VAL:O	2.72	0.41
2:JE:296:PHE:CD1	2:JE:341:ILE:HD11	2.55	0.41
3:JF:271:GLY:HA2	3:JF:302:MET:HE3	2.02	0.41
3:JF:315:VAL:O	3:JF:351:VAL:HA	2.20	0.41
7:JF:502:TA1:H472	7:JF:502:TA1:H021	1.88	0.41
3:KB:107:HIS:HD2	3:KB:108:TYR:CE1	2.38	0.41
3:KB:260:VAL:O	3:KB:260:VAL:HG13	2.20	0.41
2:KC:224:TYR:CD2	4:KC:501:GTP:C6	3.08	0.41
2:KE:224:TYR:CD2	4:KE:501:GTP:C6	3.08	0.41
2:LA:280:LYS:HE3	2:LA:280:LYS:CA	2.42	0.41
3:LB:425:MET:HA	3:LB:425:MET:HE3	2.01	0.41
3:LD:315:VAL:O	3:LD:351:VAL:HA	2.20	0.41
3:LF:107:HIS:HD2	3:LF:108:TYR:CE1	2.38	0.41
3:LF:425:MET:HE3	3:LF:425:MET:HA	2.01	0.41
3:MD:320:ARG:O	3:MD:323:MET:HE1	2.20	0.41
3:MF:141:LEU:HD22	3:MF:172:MET:HB3	2.01	0.41
2:NA:210:TYR:CE1	2:NA:227:LEU:HD11	2.49	0.41
3:NB:258:ASN:O	3:NB:314:THR:HG21	2.20	0.41
3:NB:358:ILE:HD12	3:NB:358:ILE:HA	1.94	0.41
3:ND:358:ILE:HD12	3:ND:358:ILE:HA	1.94	0.41
3:NF:320:ARG:O	3:NF:323:MET:HE1	2.20	0.41
3:AB:141:LEU:HD11	3:AB:194:LEU:HD11	2.03	0.41
2:AC:224:TYR:CD1	3:AD:247:GLN:NE2	2.88	0.41
2:AE:224:TYR:CD2	4:AE:501:GTP:C6	3.08	0.41
3:AF:141:LEU:HD11	3:AF:194:LEU:HD11	2.03	0.41
2:BA:66:VAL:HG23	2:BA:91:GLN:O	2.19	0.41
3:BB:209:LEU:HD13	3:BB:227:LEU:HB3	2.02	0.41
3:BB:242:LEU:HD23	3:BB:242:LEU:H	1.84	0.41
3:BD:172:MET:HE3	3:BD:387:LEU:HD13	2.01	0.41
3:BD:425:MET:HA	3:BD:425:MET:HE3	2.00	0.41
2:BE:66:VAL:HG23	2:BE:91:GLN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BE:212:ILE:HD13	2:BE:215:ARG:HH22	1.85	0.41
3:BF:145:THR:HG22	3:BF:149:MET:HE2	2.01	0.41
3:BF:180:THR:HB	3:BF:183:GLU:CD	2.45	0.41
3:BF:258:ASN:O	3:BF:314:THR:HG21	2.20	0.41
2:CC:85:GLN:OE1	2:CC:85:GLN:N	2.37	0.41
3:CD:107:HIS:HD2	3:CD:108:TYR:CE1	2.38	0.41
3:CD:145:THR:HG22	3:CD:149:MET:HE2	2.01	0.41
3:CD:315:VAL:O	3:CD:351:VAL:HA	2.20	0.41
3:CF:75:MET:SD	3:CF:79:ARG:HD3	2.60	0.41
3:CF:145:THR:HG22	3:CF:149:MET:HE2	2.01	0.41
2:DC:255:PHE:CE1	2:DC:318:LEU:HD11	2.54	0.41
2:DC:394:LYS:HZ3	3:DD:348:PRO:HG3	1.85	0.41
3:DD:145:THR:HG22	3:DD:149:MET:HE2	2.01	0.41
2:EA:88:HIS:O	2:EA:91:GLN:HG2	2.19	0.41
2:EE:88:HIS:O	2:EE:91:GLN:HG2	2.19	0.41
3:EF:32:PRO:HG3	3:EF:83:PHE:CE1	2.56	0.41
3:EF:320:ARG:O	3:EF:323:MET:HE1	2.20	0.41
7:FB:502:TA1:H472	7:FB:502:TA1:H021	1.88	0.41
3:FD:101:ASN:HA	3:FD:144:GLY:N	2.33	0.41
2:GC:85:GLN:OE1	2:GC:85:GLN:N	2.37	0.41
4:GC:501:GTP:PG	3:GD:254:LYS:HZ1	2.43	0.41
7:GD:502:TA1:H472	7:GD:502:TA1:H021	1.88	0.41
3:GF:32:PRO:HG3	3:GF:83:PHE:CE1	2.55	0.41
2:HA:74:VAL:O	2:HA:78:VAL:HG23	2.19	0.41
2:HA:145:THR:OG1	4:HA:501:GTP:O2G	2.27	0.41
2:HA:224:TYR:CD2	4:HA:501:GTP:C6	3.08	0.41
3:HB:107:HIS:HD2	3:HB:108:TYR:CE1	2.38	0.41
3:HB:258:ASN:O	3:HB:314:THR:HG21	2.20	0.41
3:HB:320:ARG:O	3:HB:323:MET:HE1	2.20	0.41
2:HC:74:VAL:O	2:HC:78:VAL:HG23	2.19	0.41
2:HC:224:TYR:CD2	4:HC:501:GTP:C6	3.09	0.41
3:HD:60:LYS:HE3	3:ID:283:TYR:HA	2.02	0.41
3:HD:107:HIS:HD2	3:HD:108:TYR:CE1	2.38	0.41
3:HD:258:ASN:O	3:HD:314:THR:HG21	2.20	0.41
3:HD:271:GLY:HA2	3:HD:302:MET:HE3	2.02	0.41
3:HD:320:ARG:O	3:HD:323:MET:HE1	2.20	0.41
2:HE:224:TYR:CD2	4:HE:501:GTP:C6	3.09	0.41
2:HE:331:ALA:O	2:HE:334:THR:OG1	2.36	0.41
3:HF:32:PRO:HG3	3:HF:83:PHE:CE1	2.56	0.41
3:HF:88:ARG:HG3	3:HF:91:ASN:H	1.84	0.41
3:HF:107:HIS:HD2	3:HF:108:TYR:CE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:66:VAL:HG23	2:IA:91:GLN:O	2.20	0.41
2:IA:224:TYR:CD2	4:IA:501:GTP:C6	3.08	0.41
2:IA:296:PHE:CD1	2:IA:341:ILE:HD11	2.55	0.41
3:IB:332:MET:O	3:IB:336:GLN:NE2	2.45	0.41
2:IC:224:TYR:CD2	4:IC:501:GTP:C6	3.08	0.41
2:IE:224:TYR:CD2	4:IE:501:GTP:C6	3.08	0.41
2:JA:224:TYR:CD2	4:JA:501:GTP:C6	3.08	0.41
3:JB:320:ARG:O	3:JB:323:MET:HE1	2.20	0.41
2:JC:172:TYR:OH	2:JC:387:ALA:O	2.28	0.41
2:JC:224:TYR:CD2	4:JC:501:GTP:C6	3.08	0.41
3:JD:271:GLY:HA2	3:JD:302:MET:HE3	2.02	0.41
2:JE:224:TYR:CD2	4:JE:501:GTP:C6	3.08	0.41
3:JF:141:LEU:HD11	3:JF:194:LEU:HD11	2.03	0.41
3:KD:172:MET:HE3	3:KD:387:LEU:HD13	2.01	0.41
3:KF:172:MET:HE3	3:KF:387:LEU:HD13	2.01	0.41
2:LC:145:THR:OG1	4:LC:501:GTP:O2G	2.27	0.41
2:LC:232:SER:OG	2:LC:233:GLN:OE1	2.36	0.41
3:LD:141:LEU:HD11	3:LD:194:LEU:HD11	2.03	0.41
3:LD:143:GLY:N	3:LD:183:GLU:OE1	2.45	0.41
3:LD:320:ARG:O	3:LD:323:MET:HE1	2.20	0.41
3:LD:324:SER:OG	3:LD:325:MET:N	2.45	0.41
2:LE:85:GLN:OE1	2:LE:85:GLN:N	2.37	0.41
2:LE:145:THR:OG1	4:LE:501:GTP:O2G	2.27	0.41
2:LE:229:ARG:HH11	2:LE:366:GLY:HA2	1.85	0.41
2:LE:232:SER:OG	2:LE:233:GLN:OE1	2.36	0.41
3:LF:315:VAL:O	3:LF:351:VAL:HA	2.20	0.41
3:LF:320:ARG:O	3:LF:323:MET:HE1	2.20	0.41
3:LF:324:SER:OG	3:LF:325:MET:N	2.45	0.41
2:MA:229:ARG:HH11	2:MA:366:GLY:HA2	1.85	0.41
2:MA:326:LYS:HB2	2:MA:326:LYS:HE3	1.87	0.41
2:MA:331:ALA:O	2:MA:334:THR:OG1	2.36	0.41
3:MB:425:MET:HE3	3:MB:425:MET:HA	2.01	0.41
3:MF:260:VAL:O	3:MF:260:VAL:HG13	2.20	0.41
2:NA:224:TYR:CD2	4:NA:501:GTP:C6	3.08	0.41
3:NB:141:LEU:HD11	3:NB:194:LEU:HD11	2.03	0.41
3:NB:320:ARG:O	3:NB:323:MET:HE1	2.20	0.41
2:NC:85:GLN:OE1	2:NC:85:GLN:N	2.37	0.41
2:NC:88:HIS:O	2:NC:91:GLN:HG2	2.19	0.41
2:NC:224:TYR:CD2	4:NC:501:GTP:C6	3.08	0.41
2:NC:296:PHE:CD1	2:NC:341:ILE:HD11	2.55	0.41
4:NC:501:GTP:PG	3:ND:254:LYS:NZ	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ND:320:ARG:O	3:ND:323:MET:HE1	2.20	0.41
3:NF:88:ARG:HG3	3:NF:91:ASN:H	1.84	0.41
1:1A:108:GLU:O	1:1A:112:ILE:HG13	2.20	0.41
1:1B:115:ARG:HA	1:1B:118:LEU:HD12	2.03	0.41
1:1E:108:GLU:O	1:1E:112:ILE:HG13	2.20	0.41
2:AA:224:TYR:CD2	4:AA:501:GTP:C6	3.09	0.41
3:AB:180:THR:HB	3:AB:183:GLU:CD	2.45	0.41
3:AB:242:LEU:HD23	3:AB:242:LEU:H	1.84	0.41
2:AC:229:ARG:HH11	2:AC:366:GLY:HA2	1.85	0.41
3:AD:141:LEU:HD11	3:AD:194:LEU:HD11	2.03	0.41
3:AD:180:THR:HB	3:AD:183:GLU:CD	2.45	0.41
3:AD:222:PRO:HD2	2:AE:326:LYS:HZ2	1.80	0.41
2:AE:229:ARG:HH11	2:AE:366:GLY:HA2	1.85	0.41
3:AF:260:VAL:HG13	3:AF:260:VAL:O	2.20	0.41
2:BA:229:ARG:HH11	2:BA:366:GLY:HA2	1.85	0.41
3:BB:32:PRO:HG3	3:BB:83:PHE:CE1	2.55	0.41
3:BD:209:LEU:HD13	3:BD:227:LEU:HB3	2.02	0.41
3:BD:320:ARG:O	3:BD:323:MET:HE1	2.20	0.41
3:BF:209:LEU:HD13	3:BF:227:LEU:HB3	2.02	0.41
2:CA:255:PHE:CE1	2:CA:318:LEU:HD11	2.54	0.41
3:CB:32:PRO:HG3	3:CB:83:PHE:CE1	2.56	0.41
3:CB:107:HIS:HD2	3:CB:108:TYR:CE1	2.38	0.41
3:CB:145:THR:HG22	3:CB:149:MET:HE2	2.01	0.41
3:CB:180:THR:HB	3:CB:183:GLU:CD	2.45	0.41
3:CB:315:VAL:O	3:CB:351:VAL:HA	2.20	0.41
3:CD:32:PRO:HG3	3:CD:83:PHE:CE1	2.56	0.41
3:CD:293:GLN:HA	3:CD:296:PHE:CE1	2.55	0.41
3:CF:32:PRO:HG3	3:CF:83:PHE:CE1	2.56	0.41
3:CF:107:HIS:HD2	3:CF:108:TYR:CE1	2.38	0.41
3:CF:180:THR:HB	3:CF:183:GLU:CD	2.45	0.41
3:CF:293:GLN:HA	3:CF:296:PHE:CE1	2.55	0.41
3:CF:315:VAL:O	3:CF:351:VAL:HA	2.20	0.41
3:CF:425:MET:HA	3:CF:425:MET:HE3	2.00	0.41
2:DA:212:ILE:HD13	2:DA:215:ARG:HH22	1.85	0.41
3:DB:258:ASN:O	3:DB:314:THR:HG21	2.20	0.41
3:DB:315:VAL:O	3:DB:351:VAL:HA	2.20	0.41
3:DD:258:ASN:O	3:DD:314:THR:HG21	2.20	0.41
3:DD:260:VAL:HG13	3:DD:260:VAL:O	2.20	0.41
3:DD:315:VAL:O	3:DD:351:VAL:HA	2.20	0.41
2:DE:255:PHE:CE1	2:DE:318:LEU:HD11	2.54	0.41
3:DF:320:ARG:O	3:DF:323:MET:HE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EA:229:ARG:HH11	2:EA:366:GLY:HA2	1.85	0.41
3:ED:32:PRO:HG3	3:ED:83:PHE:CE1	2.56	0.41
3:ED:209:LEU:HD13	3:ED:227:LEU:HB3	2.02	0.41
3:FB:32:PRO:HG3	3:FB:83:PHE:CE1	2.56	0.41
2:FC:74:VAL:O	2:FC:78:VAL:HG23	2.19	0.41
3:FF:101:ASN:HA	3:FF:144:GLY:N	2.33	0.41
3:GD:32:PRO:HG3	3:GD:83:PHE:CE1	2.56	0.41
2:HA:331:ALA:O	2:HA:334:THR:OG1	2.36	0.41
3:HB:32:PRO:HG3	3:HB:83:PHE:CE1	2.56	0.41
3:HD:32:PRO:HG3	3:HD:83:PHE:CE1	2.56	0.41
3:HF:258:ASN:O	3:HF:314:THR:HG21	2.20	0.41
3:HF:271:GLY:HA2	3:HF:302:MET:HE3	2.02	0.41
3:HF:320:ARG:O	3:HF:323:MET:HE1	2.20	0.41
3:IB:32:PRO:HG3	3:IB:83:PHE:CE1	2.56	0.41
3:IB:271:GLY:HA2	3:IB:302:MET:HE3	2.02	0.41
3:ID:32:PRO:HG3	3:ID:83:PHE:CE1	2.55	0.41
3:ID:394:GLN:NE2	2:IE:348:PRO:HG2	2.18	0.41
2:IE:296:PHE:CD1	2:IE:341:ILE:HD11	2.55	0.41
3:JD:141:LEU:HD11	3:JD:194:LEU:HD11	2.03	0.41
3:JD:320:ARG:O	3:JD:323:MET:HE1	2.20	0.41
3:JF:421:ALA:O	3:JF:425:MET:HG2	2.20	0.41
2:KA:229:ARG:HH11	2:KA:366:GLY:HA2	1.85	0.41
3:KB:386:GLU:OE1	3:KB:389:LYS:NZ	2.53	0.41
3:KD:386:GLU:OE1	3:KD:389:LYS:NZ	2.53	0.41
3:KF:386:GLU:OE1	3:KF:389:LYS:NZ	2.53	0.41
2:LA:104:ALA:HA	2:LA:413:MET:HE3	2.03	0.41
2:LA:229:ARG:HH11	2:LA:366:GLY:HA2	1.85	0.41
3:LB:107:HIS:HD2	3:LB:108:TYR:CE1	2.38	0.41
3:LB:141:LEU:HD11	3:LB:194:LEU:HD11	2.03	0.41
3:LB:315:VAL:O	3:LB:351:VAL:HA	2.20	0.41
3:LB:320:ARG:O	3:LB:323:MET:HE1	2.20	0.41
2:LC:229:ARG:HH11	2:LC:366:GLY:HA2	1.85	0.41
3:LD:107:HIS:HD2	3:LD:108:TYR:CE1	2.38	0.41
3:LF:141:LEU:HD11	3:LF:194:LEU:HD11	2.03	0.41
2:MA:104:ALA:HA	2:MA:413:MET:HE3	2.03	0.41
2:MA:219:ILE:HG23	2:MA:222:PRO:HD3	2.03	0.41
3:MB:141:LEU:HD11	3:MB:194:LEU:HD11	2.03	0.41
3:MB:386:GLU:OE1	3:MB:389:LYS:NZ	2.53	0.41
2:MC:104:ALA:HA	2:MC:413:MET:HE3	2.03	0.41
2:MC:326:LYS:HB2	2:MC:326:LYS:HE3	1.87	0.41
3:MD:107:HIS:HD2	3:MD:108:TYR:CE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MD:141:LEU:HD11	3:MD:194:LEU:HD11	2.03	0.41
3:MD:180:THR:HB	3:MD:183:GLU:CD	2.45	0.41
3:MD:209:LEU:HD13	3:MD:227:LEU:HB3	2.02	0.41
2:ME:104:ALA:HA	2:ME:413:MET:HE3	2.03	0.41
2:ME:219:ILE:HG23	2:ME:222:PRO:HD3	2.03	0.41
3:MF:101:ASN:HA	3:MF:144:GLY:N	2.33	0.41
3:MF:141:LEU:HD11	3:MF:194:LEU:HD11	2.03	0.41
2:NA:66:VAL:HG23	2:NA:91:GLN:O	2.20	0.41
2:NA:104:ALA:HA	2:NA:413:MET:HE3	2.03	0.41
3:ND:88:ARG:HG3	3:ND:91:ASN:H	1.84	0.41
2:NE:104:ALA:HA	2:NE:413:MET:HE3	2.03	0.41
2:NE:180:ALA:HB1	3:NF:258:ASN:OD1	2.19	0.41
2:NE:296:PHE:CD1	2:NE:341:ILE:HD11	2.55	0.41
1:1A:115:ARG:HA	1:1A:118:LEU:HD12	2.03	0.41
1:1D:108:GLU:O	1:1D:112:ILE:HG13	2.20	0.41
1:1E:115:ARG:HA	1:1E:118:LEU:HD12	2.03	0.41
2:AA:229:ARG:HH11	2:AA:366:GLY:HA2	1.85	0.41
2:AC:104:ALA:HA	2:AC:413:MET:HE3	2.03	0.41
2:AC:212:ILE:HD13	2:AC:215:ARG:HH22	1.85	0.41
2:AC:224:TYR:CD2	4:AC:501:GTP:C6	3.08	0.41
3:AF:180:THR:HB	3:AF:183:GLU:CD	2.45	0.41
2:BA:224:TYR:CD2	4:BA:501:GTP:C6	3.08	0.41
2:BA:401:LYS:HD3	3:BB:346:TRP:HE1	1.85	0.41
3:BB:172:MET:HE3	3:BB:387:LEU:HD13	2.01	0.41
3:BB:180:THR:HB	3:BB:183:GLU:CD	2.45	0.41
3:BD:180:THR:HB	3:BD:183:GLU:CD	2.45	0.41
2:BE:255:PHE:CE1	2:BE:318:LEU:HD11	2.54	0.41
3:BF:107:HIS:HD2	3:BF:108:TYR:CE1	2.38	0.41
3:BF:320:ARG:O	3:BF:323:MET:HE1	2.20	0.41
3:BF:386:GLU:OE1	3:BF:389:LYS:NZ	2.53	0.41
3:BF:425:MET:HA	3:BF:425:MET:HE3	2.01	0.41
3:CB:141:LEU:HD11	3:CB:194:LEU:HD11	2.03	0.41
3:CD:180:THR:HB	3:CD:183:GLU:CD	2.45	0.41
3:DD:332:MET:O	3:DD:336:GLN:NE2	2.45	0.41
3:DD:401:ARG:NH1	2:DE:346:TRP:CE2	2.88	0.41
3:DF:107:HIS:HD2	3:DF:108:TYR:CE1	2.38	0.41
3:EB:258:ASN:O	3:EB:314:THR:HG21	2.20	0.41
3:EB:320:ARG:O	3:EB:323:MET:HE1	2.20	0.41
3:ED:320:ARG:O	3:ED:323:MET:HE1	2.20	0.41
3:EF:145:THR:HG22	3:EF:149:MET:HE2	2.01	0.41
2:FA:145:THR:OG1	4:FA:501:GTP:O2G	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:280:LYS:HE3	2:FC:280:LYS:CA	2.42	0.41
2:FC:385:ALA:O	2:FC:389:ALA:N	2.52	0.41
3:FD:32:PRO:HG3	3:FD:83:PHE:CE1	2.56	0.41
2:FE:74:VAL:O	2:FE:78:VAL:HG23	2.19	0.41
3:FF:32:PRO:HG3	3:FF:83:PHE:CE1	2.56	0.41
3:GB:32:PRO:HG3	3:GB:83:PHE:CE1	2.56	0.41
3:GB:271:GLY:HA2	3:GB:302:MET:HE3	2.02	0.41
3:GB:390:ARG:HH22	3:GB:391:ILE:HG13	1.86	0.41
3:GF:271:GLY:HA2	3:GF:302:MET:HE3	2.02	0.41
3:HB:271:GLY:HA2	3:HB:302:MET:HE3	2.02	0.41
2:HE:314:ALA:N	2:HE:380:ASN:OD1	2.50	0.41
7:HF:502:TA1:H472	7:HF:502:TA1:H021	1.88	0.41
2:IA:56:THR:HA	2:JA:285:GLN:HB2	2.03	0.41
3:IB:141:LEU:HD11	3:IB:194:LEU:HD11	2.03	0.41
3:ID:141:LEU:HD11	3:ID:194:LEU:HD11	2.03	0.41
3:ID:315:VAL:O	3:ID:351:VAL:HA	2.20	0.41
3:IF:141:LEU:HD11	3:IF:194:LEU:HD11	2.03	0.41
3:IF:315:VAL:O	3:IF:351:VAL:HA	2.20	0.41
3:JB:141:LEU:HD11	3:JB:194:LEU:HD11	2.03	0.41
2:JE:219:ILE:HG23	2:JE:222:PRO:HD3	2.03	0.41
3:KD:107:HIS:HD2	3:KD:108:TYR:CE1	2.38	0.41
2:KE:145:THR:OG1	4:KE:501:GTP:O2G	2.27	0.41
2:KE:400:ALA:HB3	3:KF:346:TRP:CH2	2.43	0.41
3:KF:320:ARG:O	3:KF:323:MET:HE1	2.20	0.41
2:LC:104:ALA:HA	2:LC:413:MET:HE3	2.03	0.41
3:LD:176:LYS:HB2	3:LD:207:GLU:OE1	2.21	0.41
2:LE:104:ALA:HA	2:LE:413:MET:HE3	2.03	0.41
3:MB:107:HIS:HD2	3:MB:108:TYR:CE1	2.38	0.41
3:MB:180:THR:HB	3:MB:183:GLU:CD	2.45	0.41
2:MC:219:ILE:HG23	2:MC:222:PRO:HD3	2.03	0.41
3:MF:107:HIS:HD2	3:MF:108:TYR:CE1	2.38	0.41
2:NA:100:ALA:O	3:NB:257:VAL:HG11	2.21	0.41
2:NA:296:PHE:CD1	2:NA:341:ILE:HD11	2.55	0.41
3:NB:32:PRO:HG3	3:NB:83:PHE:CE1	2.56	0.41
2:NC:66:VAL:HG23	2:NC:91:GLN:O	2.20	0.41
2:NC:119:LEU:HD12	2:NC:119:LEU:HA	1.86	0.41
3:ND:107:HIS:HD2	3:ND:108:TYR:CE1	2.38	0.41
3:ND:141:LEU:HD11	3:ND:194:LEU:HD11	2.03	0.41
3:NF:141:LEU:HD11	3:NF:194:LEU:HD11	2.03	0.41
1:1E:34:ARG:HD2	1:1E:34:ARG:HA	1.93	0.41
2:AA:104:ALA:HA	2:AA:413:MET:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:212:ILE:HD13	2:AA:215:ARG:HH22	1.85	0.41
3:AB:320:ARG:O	3:AB:323:MET:HE1	2.20	0.41
2:AE:66:VAL:HG23	2:AE:91:GLN:O	2.20	0.41
2:AE:104:ALA:HA	2:AE:413:MET:HE3	2.03	0.41
2:AE:219:ILE:HG23	2:AE:222:PRO:HD3	2.03	0.41
3:AF:88:ARG:HH22	3:BF:283:TYR:HB3	1.86	0.41
2:BA:407:TRP:CH2	3:BB:256:ALA:O	2.74	0.41
3:BB:101:ASN:HA	3:BB:144:GLY:N	2.33	0.41
3:BB:320:ARG:O	3:BB:323:MET:HE1	2.20	0.41
3:BD:32:PRO:HG3	3:BD:83:PHE:CE1	2.56	0.41
2:CA:422:ARG:CB	2:CA:425:MET:HE2	2.38	0.41
3:CB:425:MET:HA	3:CB:425:MET:HE3	2.01	0.41
3:CD:141:LEU:HD11	3:CD:194:LEU:HD11	2.03	0.41
3:CD:332:MET:O	3:CD:336:GLN:NE2	2.45	0.41
3:CF:332:MET:O	3:CF:336:GLN:NE2	2.45	0.41
3:DB:107:HIS:HD2	3:DB:108:TYR:CE1	2.38	0.41
3:DB:260:VAL:HG13	3:DB:260:VAL:O	2.20	0.41
3:DB:332:MET:O	3:DB:336:GLN:NE2	2.45	0.41
3:DD:107:HIS:HD2	3:DD:108:TYR:CE1	2.38	0.41
3:DF:145:THR:HG22	3:DF:149:MET:HE2	2.01	0.41
3:DF:315:VAL:O	3:DF:351:VAL:HA	2.20	0.41
3:EB:32:PRO:HG3	3:EB:83:PHE:CE1	2.56	0.41
3:EB:209:LEU:HD13	3:EB:227:LEU:HB3	2.02	0.41
3:ED:145:THR:HG22	3:ED:149:MET:HE2	2.01	0.41
2:EE:172:TYR:HA	2:EE:173:PRO:HD3	1.98	0.41
2:EE:296:PHE:CD1	2:EE:341:ILE:HD11	2.55	0.41
3:EF:390:ARG:HH22	3:EF:391:ILE:HG13	1.86	0.41
3:FB:390:ARG:HH22	3:FB:391:ILE:HG13	1.86	0.41
3:FD:176:LYS:HB2	3:FD:207:GLU:OE1	2.21	0.41
7:FD:502:TA1:H472	7:FD:502:TA1:H021	1.88	0.41
2:FE:280:LYS:HE3	2:FE:280:LYS:CA	2.42	0.41
3:FF:107:HIS:HD2	3:FF:108:TYR:CE1	2.38	0.41
3:FF:176:LYS:HB2	3:FF:207:GLU:OE1	2.21	0.41
3:FF:390:ARG:HH22	3:FF:391:ILE:HG13	1.86	0.41
3:GB:176:LYS:HB2	3:GB:207:GLU:OE1	2.21	0.41
3:GB:315:VAL:O	3:GB:351:VAL:HA	2.20	0.41
3:GD:101:ASN:HD22	2:GE:254:GLU:HG3	1.85	0.41
3:GD:271:GLY:HA2	3:GD:302:MET:HE3	2.02	0.41
3:HF:260:VAL:HG13	3:HF:260:VAL:O	2.20	0.41
2:IA:221:ARG:NE	3:IB:324:SER:HB3	2.36	0.41
3:IB:315:VAL:O	3:IB:351:VAL:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:IF:32:PRO:HG3	3:IF:83:PHE:CE1	2.56	0.41
2:JA:145:THR:OG1	4:JA:501:GTP:O2G	2.27	0.41
2:JA:219:ILE:HG23	2:JA:222:PRO:HD3	2.03	0.41
3:JB:32:PRO:HG3	3:JB:83:PHE:CE1	2.55	0.41
2:JC:145:THR:OG1	4:JC:501:GTP:O2G	2.27	0.41
2:JC:219:ILE:HG23	2:JC:222:PRO:HD3	2.03	0.41
3:JF:260:VAL:O	3:JF:260:VAL:HG13	2.20	0.41
3:JF:320:ARG:O	3:JF:323:MET:HE1	2.20	0.41
2:KA:344:VAL:C	2:KA:346:TRP:H	2.29	0.41
2:KA:401:LYS:NZ	3:KB:346:TRP:HE1	2.19	0.41
3:KB:141:LEU:HD11	3:KB:194:LEU:HD11	2.03	0.41
2:KC:232:SER:OG	2:KC:233:GLN:OE1	2.36	0.41
2:KC:296:PHE:CD1	2:KC:341:ILE:HD11	2.55	0.41
3:KD:320:ARG:O	3:KD:323:MET:HE1	2.20	0.41
3:KD:403:ALA:HB2	2:KE:346:TRP:CH2	2.55	0.41
2:KE:296:PHE:CD1	2:KE:341:ILE:HD11	2.55	0.41
2:LA:232:SER:OG	2:LA:233:GLN:OE1	2.36	0.41
3:LB:176:LYS:HB2	3:LB:207:GLU:OE1	2.21	0.41
3:LB:209:LEU:HD13	3:LB:227:LEU:HB3	2.02	0.41
2:LC:280:LYS:HE3	2:LC:280:LYS:CA	2.42	0.41
2:LE:66:VAL:HG23	2:LE:91:GLN:O	2.19	0.41
3:LF:176:LYS:HB2	3:LF:207:GLU:OE1	2.21	0.41
3:MB:209:LEU:HD13	3:MB:227:LEU:HB3	2.02	0.41
3:MB:260:VAL:O	3:MB:260:VAL:HG13	2.20	0.41
2:MC:314:ALA:N	2:MC:380:ASN:OD1	2.50	0.41
3:MD:260:VAL:HG13	3:MD:260:VAL:O	2.20	0.41
3:MD:386:GLU:OE1	3:MD:389:LYS:NZ	2.53	0.41
3:MD:425:MET:HA	3:MD:425:MET:HE3	2.00	0.41
3:MF:425:MET:HA	3:MF:425:MET:HE3	2.00	0.41
3:NB:88:ARG:HG3	3:NB:91:ASN:H	1.84	0.41
2:NC:104:ALA:HA	2:NC:413:MET:HE3	2.03	0.41
2:NC:172:TYR:HA	2:NC:173:PRO:HD3	1.98	0.41
3:ND:386:GLU:OE1	3:ND:389:LYS:NZ	2.53	0.41
3:NF:386:GLU:OE1	3:NF:389:LYS:NZ	2.53	0.41
2:AA:219:ILE:HG23	2:AA:222:PRO:HD3	2.03	0.41
2:BC:104:ALA:HA	2:BC:413:MET:HE3	2.03	0.41
3:BD:107:HIS:HD2	3:BD:108:TYR:CE1	2.38	0.41
3:BD:176:LYS:HB2	3:BD:207:GLU:OE1	2.21	0.41
2:BE:104:ALA:HA	2:BE:413:MET:HE3	2.03	0.41
2:BE:224:TYR:CD2	4:BE:501:GTP:C6	3.08	0.41
3:BF:141:LEU:HD11	3:BF:194:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:176:LYS:HB2	3:CD:207:GLU:OE1	2.21	0.41
2:EA:210:TYR:CE1	2:EA:227:LEU:HD11	2.49	0.41
3:EB:390:ARG:HH22	3:EB:391:ILE:HG13	1.86	0.41
2:EC:296:PHE:CD1	2:EC:341:ILE:HD11	2.55	0.41
3:ED:258:ASN:O	3:ED:314:THR:HG21	2.20	0.41
2:FA:212:ILE:HD13	2:FA:215:ARG:HH22	1.85	0.41
3:FB:107:HIS:HD2	3:FB:108:TYR:CE1	2.38	0.41
2:FC:224:TYR:CE1	3:FD:325:MET:HG3	2.56	0.41
3:FD:107:HIS:HD2	3:FD:108:TYR:CE1	2.38	0.41
3:FD:390:ARG:HH22	3:FD:391:ILE:HG13	1.86	0.41
2:FE:210:TYR:CE1	2:FE:227:LEU:HD11	2.49	0.41
2:FE:224:TYR:CE1	3:FF:247:GLN:CD	2.99	0.41
2:GA:212:ILE:HD13	2:GA:215:ARG:HH22	1.85	0.41
3:GB:180:THR:HB	3:GB:183:GLU:CD	2.45	0.41
2:GC:212:ILE:HD13	2:GC:215:ARG:HH22	1.85	0.41
3:GD:141:LEU:HD11	3:GD:194:LEU:HD11	2.03	0.41
3:GD:315:VAL:O	3:GD:351:VAL:HA	2.20	0.41
3:GF:141:LEU:HD11	3:GF:194:LEU:HD11	2.03	0.41
2:HA:181:VAL:HG12	3:HB:258:ASN:OD1	2.20	0.41
2:HA:219:ILE:HG23	2:HA:222:PRO:HD3	2.03	0.41
3:HB:143:GLY:N	3:HB:183:GLU:OE1	2.45	0.41
2:HE:219:ILE:HG23	2:HE:222:PRO:HD3	2.03	0.41
3:HF:141:LEU:HD11	3:HF:194:LEU:HD11	2.03	0.41
2:IA:221:ARG:NE	3:IB:327:GLU:OE1	2.54	0.41
3:ID:332:MET:O	3:ID:336:GLN:NE2	2.45	0.41
2:JA:121:ARG:HA	2:JA:121:ARG:NE	2.35	0.41
3:JF:32:PRO:HG3	3:JF:83:PHE:CE1	2.56	0.41
3:JF:386:GLU:OE1	3:JF:389:LYS:NZ	2.53	0.41
2:KA:104:ALA:HA	2:KA:413:MET:HE3	2.03	0.41
2:KA:212:ILE:HD13	2:KA:215:ARG:HH22	1.85	0.41
2:KA:296:PHE:CD1	2:KA:341:ILE:HD11	2.55	0.41
3:KB:320:ARG:O	3:KB:323:MET:HE1	2.20	0.41
2:KC:344:VAL:C	2:KC:346:TRP:H	2.29	0.41
2:KE:212:ILE:HD13	2:KE:215:ARG:HH22	1.85	0.41
3:KF:107:HIS:HD2	3:KF:108:TYR:CE1	2.38	0.41
2:LA:66:VAL:HG23	2:LA:91:GLN:O	2.20	0.41
3:LB:60:LYS:HE3	3:MB:282:GLN:O	2.21	0.41
3:LB:143:GLY:N	3:LB:183:GLU:OE1	2.45	0.41
2:LC:66:VAL:HG23	2:LC:91:GLN:O	2.20	0.41
2:LE:326:LYS:HB2	2:LE:326:LYS:HE3	1.87	0.41
2:MC:66:VAL:HG23	2:MC:91:GLN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MF:218:LYS:HB2	3:MF:277:SER:HB3	2.02	0.41
2:NA:172:TYR:HA	2:NA:173:PRO:HD3	1.98	0.41
3:NB:107:HIS:HD2	3:NB:108:TYR:CE1	2.38	0.41
3:NB:386:GLU:OE1	3:NB:389:LYS:NZ	2.53	0.41
3:ND:32:PRO:HG3	3:ND:83:PHE:CE1	2.55	0.41
3:ND:315:VAL:O	3:ND:351:VAL:HA	2.20	0.41
3:NF:107:HIS:HD2	3:NF:108:TYR:CE1	2.38	0.41
1:1C:108:GLU:O	1:1C:112:ILE:HG13	2.20	0.41
1:1E:34:ARG:HH11	1:1E:35:ASN:H	1.68	0.41
3:AB:403:ALA:HB3	2:AC:346:TRP:CZ3	2.51	0.41
2:AC:66:VAL:HG23	2:AC:91:GLN:O	2.20	0.41
2:AC:219:ILE:HG23	2:AC:222:PRO:HD3	2.03	0.41
3:AD:242:LEU:HD23	3:AD:242:LEU:H	1.84	0.41
3:AD:320:ARG:O	3:AD:323:MET:HE1	2.20	0.41
2:AE:212:ILE:HD13	2:AE:215:ARG:HH22	1.85	0.41
3:AF:242:LEU:HD23	3:AF:242:LEU:H	1.84	0.41
3:AF:320:ARG:O	3:AF:323:MET:HE1	2.20	0.41
3:BB:107:HIS:HD2	3:BB:108:TYR:CE1	2.38	0.41
3:BB:176:LYS:HB2	3:BB:207:GLU:OE1	2.21	0.41
3:BB:386:GLU:OE1	3:BB:389:LYS:NZ	2.53	0.41
2:BC:224:TYR:CD2	4:BC:501:GTP:C6	3.09	0.41
2:BC:255:PHE:CE1	2:BC:318:LEU:HD11	2.54	0.41
3:BD:101:ASN:HA	3:BD:144:GLY:N	2.33	0.41
3:BD:141:LEU:HD11	3:BD:194:LEU:HD11	2.03	0.41
2:BE:219:ILE:HG23	2:BE:222:PRO:HD3	2.03	0.41
2:BE:422:ARG:CB	2:BE:425:MET:HE2	2.38	0.41
3:BF:32:PRO:HG3	3:BF:83:PHE:CE1	2.56	0.41
3:CB:176:LYS:HB2	3:CB:207:GLU:OE1	2.21	0.41
2:CC:255:PHE:CE1	2:CC:318:LEU:HD11	2.54	0.41
3:CD:218:LYS:HB2	3:CD:277:SER:HB3	2.02	0.41
3:CF:141:LEU:HD11	3:CF:194:LEU:HD11	2.03	0.41
3:CF:176:LYS:HB2	3:CF:207:GLU:OE1	2.21	0.41
3:DB:141:LEU:HD11	3:DB:194:LEU:HD11	2.03	0.41
3:DB:218:LYS:HB2	3:DB:277:SER:HB3	2.02	0.41
3:DF:141:LEU:HD11	3:DF:194:LEU:HD11	2.03	0.41
2:EA:296:PHE:CD1	2:EA:341:ILE:HD11	2.55	0.41
3:EB:145:THR:HG22	3:EB:149:MET:HE2	2.01	0.41
3:ED:141:LEU:HD11	3:ED:194:LEU:HD11	2.03	0.41
3:ED:390:ARG:HH22	3:ED:391:ILE:HG13	1.86	0.41
3:FB:176:LYS:HB2	3:FB:207:GLU:OE1	2.21	0.41
2:FC:121:ARG:HA	2:FC:121:ARG:NE	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FF:502:TA1:H472	7:FF:502:TA1:H021	1.88	0.41
2:GA:145:THR:OG1	4:GA:501:GTP:O2G	2.27	0.41
3:GB:141:LEU:HD11	3:GB:194:LEU:HD11	2.03	0.41
3:GB:222:PRO:HD2	2:GC:326:LYS:NZ	2.32	0.41
2:GC:344:VAL:C	2:GC:346:TRP:H	2.29	0.41
3:GD:176:LYS:HB2	3:GD:207:GLU:OE1	2.21	0.41
3:GD:180:THR:HB	3:GD:183:GLU:CD	2.45	0.41
3:GD:390:ARG:HH22	3:GD:391:ILE:HG13	1.86	0.41
2:GE:219:ILE:HG23	2:GE:222:PRO:HD3	2.03	0.41
2:HA:314:ALA:N	2:HA:380:ASN:OD1	2.50	0.41
3:HB:390:ARG:HH22	3:HB:391:ILE:HG13	1.86	0.41
2:HC:219:ILE:HG23	2:HC:222:PRO:HD3	2.03	0.41
2:HC:314:ALA:N	2:HC:380:ASN:OD1	2.50	0.41
2:HE:119:LEU:HD12	2:HE:119:LEU:HA	1.86	0.41
2:HE:407:TRP:CZ3	3:HF:257:VAL:O	2.74	0.41
2:IA:407:TRP:CH2	3:IB:260:VAL:O	2.74	0.41
3:IB:107:HIS:HD2	3:IB:108:TYR:CE1	2.38	0.41
3:ID:107:HIS:HD2	3:ID:108:TYR:CE1	2.38	0.41
3:IF:107:HIS:HD2	3:IF:108:TYR:CE1	2.38	0.41
3:IF:176:LYS:HB2	3:IF:207:GLU:OE1	2.21	0.41
3:IF:332:MET:O	3:IF:336:GLN:NE2	2.45	0.41
3:JD:32:PRO:HG3	3:JD:83:PHE:CE1	2.56	0.41
2:KA:66:VAL:HG23	2:KA:91:GLN:O	2.20	0.41
2:KC:145:THR:OG1	4:KC:501:GTP:O2G	2.27	0.41
2:KC:212:ILE:HD13	2:KC:215:ARG:HH22	1.85	0.41
3:KD:141:LEU:HD11	3:KD:194:LEU:HD11	2.03	0.41
2:KE:66:VAL:HG23	2:KE:91:GLN:O	2.20	0.41
2:KE:344:VAL:C	2:KE:346:TRP:H	2.29	0.41
3:KF:32:PRO:HG3	3:KF:83:PHE:CE1	2.56	0.41
3:KF:141:LEU:HD11	3:KF:194:LEU:HD11	2.03	0.41
3:LF:101:ASN:HA	3:LF:144:GLY:N	2.33	0.41
3:MD:8:GLN:HB3	3:MD:14:ASN:HA	2.02	0.41
2:ME:66:VAL:HG23	2:ME:91:GLN:O	2.20	0.41
2:ME:314:ALA:N	2:ME:380:ASN:OD1	2.50	0.41
2:NA:344:VAL:C	2:NA:346:TRP:H	2.29	0.41
3:NB:260:VAL:HG13	3:NB:260:VAL:O	2.20	0.41
2:NE:326:LYS:HB2	2:NE:326:LYS:HE3	1.87	0.41
1:1B:108:GLU:O	1:1B:112:ILE:HG13	2.20	0.41
1:1C:81:ARG:O	1:1C:85:LYS:HD3	2.20	0.41
1:1D:81:ARG:O	1:1D:85:LYS:HD3	2.20	0.41
1:1D:115:ARG:HA	1:1D:118:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:66:VAL:HG23	2:AA:91:GLN:O	2.20	0.41
2:AA:296:PHE:CD1	2:AA:341:ILE:HD11	2.55	0.41
2:AC:221:ARG:NH2	3:AD:327:GLU:OE2	2.53	0.41
2:AC:296:PHE:CD1	2:AC:341:ILE:HD11	2.55	0.41
2:AC:344:VAL:C	2:AC:346:TRP:H	2.29	0.41
3:AD:69:ASP:OD2	3:AD:74:THR:OG1	2.18	0.41
3:AD:151:THR:HG21	3:AD:190:SER:HA	2.03	0.41
3:AD:176:LYS:HB2	3:AD:207:GLU:OE1	2.21	0.41
2:AE:296:PHE:CD1	2:AE:341:ILE:HD11	2.55	0.41
3:AF:151:THR:HG21	3:AF:190:SER:HA	2.03	0.41
2:BA:104:ALA:HA	2:BA:413:MET:HE3	2.03	0.41
3:BB:141:LEU:HD11	3:BB:194:LEU:HD11	2.03	0.41
2:BC:219:ILE:HG23	2:BC:222:PRO:HD3	2.03	0.41
2:BC:422:ARG:CB	2:BC:425:MET:HE2	2.38	0.41
3:BD:151:THR:HG21	3:BD:190:SER:HA	2.03	0.41
3:BD:386:GLU:OE1	3:BD:389:LYS:NZ	2.53	0.41
3:BF:101:ASN:HA	3:BF:144:GLY:N	2.33	0.41
3:BF:151:THR:HG21	3:BF:190:SER:HA	2.03	0.41
3:BF:176:LYS:HB2	3:BF:207:GLU:OE1	2.21	0.41
2:CA:104:ALA:HA	2:CA:413:MET:HE3	2.03	0.41
3:CB:151:THR:HG21	3:CB:190:SER:HA	2.03	0.41
3:CB:218:LYS:HB2	3:CB:277:SER:HB3	2.02	0.41
3:CB:332:MET:O	3:CB:336:GLN:NE2	2.45	0.41
2:CC:104:ALA:HA	2:CC:413:MET:HE3	2.03	0.41
3:CD:151:THR:HG21	3:CD:190:SER:HA	2.03	0.41
2:CE:104:ALA:HA	2:CE:413:MET:HE3	2.03	0.41
2:CE:219:ILE:HG23	2:CE:222:PRO:HD3	2.03	0.41
2:CE:255:PHE:CE1	2:CE:318:LEU:HD11	2.54	0.41
3:CF:151:THR:HG21	3:CF:190:SER:HA	2.03	0.41
3:CF:218:LYS:HB2	3:CF:277:SER:HB3	2.02	0.41
3:DB:176:LYS:HB2	3:DB:207:GLU:OE1	2.21	0.41
3:DB:320:ARG:HG3	3:DB:356:CYS:HB3	2.03	0.41
3:DB:390:ARG:HH22	3:DB:391:ILE:HG13	1.86	0.41
3:DD:141:LEU:HD11	3:DD:194:LEU:HD11	2.03	0.41
3:DD:176:LYS:HB2	3:DD:207:GLU:OE1	2.21	0.41
3:DD:218:LYS:HB2	3:DD:277:SER:HB3	2.02	0.41
3:DD:390:ARG:HH22	3:DD:391:ILE:HG13	1.86	0.41
3:DF:151:THR:HG21	3:DF:190:SER:HA	2.03	0.41
3:DF:176:LYS:HB2	3:DF:207:GLU:OE1	2.21	0.41
3:DF:218:LYS:HB2	3:DF:277:SER:HB3	2.02	0.41
3:DF:390:ARG:HH22	3:DF:391:ILE:HG13	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EA:219:ILE:HG23	2:EA:222:PRO:HD3	2.03	0.41
3:EB:141:LEU:HD11	3:EB:194:LEU:HD11	2.03	0.41
3:EB:176:LYS:HB2	3:EB:207:GLU:OE1	2.21	0.41
2:EC:172:TYR:HA	2:EC:173:PRO:HD3	1.98	0.41
2:EC:224:TYR:CD2	4:EC:501:GTP:C6	3.08	0.41
2:EC:326:LYS:HB2	2:EC:326:LYS:HE3	1.87	0.41
2:EE:219:ILE:HG23	2:EE:222:PRO:HD3	2.03	0.41
2:EE:401:LYS:CE	3:EF:346:TRP:HE1	2.34	0.41
3:EF:60:LYS:CE	3:FF:282:GLN:NE2	2.78	0.41
3:EF:258:ASN:O	3:EF:314:THR:HG21	2.20	0.41
3:EF:260:VAL:HG13	3:EF:260:VAL:O	2.20	0.41
2:FA:104:ALA:HA	2:FA:413:MET:HE3	2.03	0.41
2:FA:121:ARG:HA	2:FA:121:ARG:NE	2.35	0.41
2:FA:210:TYR:CE1	2:FA:227:LEU:HD11	2.49	0.41
3:FB:8:GLN:HB3	3:FB:14:ASN:HA	2.03	0.41
3:FB:276:THR:OG1	3:FB:281:GLN:HB3	2.21	0.41
2:FC:210:TYR:CE1	2:FC:227:LEU:HD11	2.49	0.41
2:FC:212:ILE:HD13	2:FC:215:ARG:HH22	1.85	0.41
3:FD:11:GLN:HB3	3:FD:74:THR:HG21	2.03	0.41
2:FE:121:ARG:HA	2:FE:121:ARG:NE	2.35	0.41
3:FF:8:GLN:HB3	3:FF:14:ASN:HA	2.03	0.41
3:FF:11:GLN:HB3	3:FF:74:THR:HG21	2.03	0.41
3:FF:276:THR:OG1	3:FF:281:GLN:HB3	2.21	0.41
2:GA:104:ALA:HA	2:GA:413:MET:HE3	2.03	0.41
2:GA:105:ARG:NH1	3:GB:253:ARG:HD2	2.28	0.41
2:GA:219:ILE:HG23	2:GA:222:PRO:HD3	2.03	0.41
2:GA:344:VAL:C	2:GA:346:TRP:H	2.29	0.41
3:GB:218:LYS:HB2	3:GB:277:SER:HB3	2.02	0.41
2:GC:219:ILE:HG23	2:GC:222:PRO:HD3	2.03	0.41
2:GE:119:LEU:HD12	2:GE:119:LEU:HA	1.86	0.41
2:GE:212:ILE:HD13	2:GE:215:ARG:HH22	1.85	0.41
2:GE:344:VAL:C	2:GE:346:TRP:H	2.29	0.41
3:GF:176:LYS:HB2	3:GF:207:GLU:OE1	2.21	0.41
3:GF:180:THR:HB	3:GF:183:GLU:CD	2.45	0.41
3:GF:315:VAL:O	3:GF:351:VAL:HA	2.20	0.41
3:GF:390:ARG:HH22	3:GF:391:ILE:HG13	1.86	0.41
7:GF:502:TA1:H472	7:GF:502:TA1:H021	1.88	0.41
3:HB:141:LEU:HD11	3:HB:194:LEU:HD11	2.03	0.41
2:HC:212:ILE:HD13	2:HC:215:ARG:HH22	1.85	0.41
3:HD:141:LEU:HD11	3:HD:194:LEU:HD11	2.03	0.41
2:HE:212:ILE:HD13	2:HE:215:ARG:HH22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:224:TYR:CE1	3:HF:325:MET:HE2	2.56	0.41
3:IB:218:LYS:HB2	3:IB:277:SER:HB3	2.02	0.41
3:IB:386:GLU:OE1	3:IB:389:LYS:NZ	2.53	0.41
3:IB:390:ARG:HH22	3:IB:391:ILE:HG13	1.86	0.41
2:IC:56:THR:HG21	2:JC:283:HIS:O	2.21	0.41
2:IC:212:ILE:HD13	2:IC:215:ARG:HH22	1.85	0.41
2:IC:265:ILE:HG13	2:IC:432:TYR:HE1	1.86	0.41
3:ID:176:LYS:HB2	3:ID:207:GLU:OE1	2.21	0.41
2:IE:85:GLN:OE1	2:IE:85:GLN:N	2.37	0.41
2:IE:212:ILE:HD13	2:IE:215:ARG:HH22	1.85	0.41
2:JA:212:ILE:HD13	2:JA:215:ARG:HH22	1.85	0.41
2:JA:401:LYS:CE	3:JB:346:TRP:HE1	2.33	0.41
3:JB:158:ARG:NH2	3:JB:164:ARG:O	2.38	0.41
3:JB:320:ARG:HG3	3:JB:356:CYS:HB3	2.03	0.41
3:JB:386:GLU:OE1	3:JB:389:LYS:NZ	2.53	0.41
3:JD:158:ARG:NH2	3:JD:164:ARG:O	2.38	0.41
3:JD:260:VAL:O	3:JD:260:VAL:HG13	2.20	0.41
3:JD:386:GLU:OE1	3:JD:389:LYS:NZ	2.53	0.41
2:JE:212:ILE:HD13	2:JE:215:ARG:HH22	1.85	0.41
3:JF:158:ARG:NH2	3:JF:164:ARG:O	2.38	0.41
3:JF:332:MET:O	3:JF:336:GLN:NE2	2.45	0.41
2:KA:119:LEU:HD12	2:KA:122:ILE:HB	2.03	0.41
3:KB:32:PRO:HG3	3:KB:83:PHE:CE1	2.56	0.41
3:KB:218:LYS:HB2	3:KB:277:SER:HB3	2.02	0.41
2:KC:66:VAL:HG23	2:KC:91:GLN:O	2.20	0.41
2:KC:104:ALA:HA	2:KC:413:MET:HE3	2.03	0.41
3:KD:32:PRO:HG3	3:KD:83:PHE:CE1	2.56	0.41
3:KD:218:LYS:HB2	3:KD:277:SER:HB3	2.02	0.41
7:KD:502:TA1:H472	7:KD:502:TA1:H021	1.88	0.41
2:KE:104:ALA:HA	2:KE:413:MET:HE3	2.03	0.41
2:KE:232:SER:OG	2:KE:233:GLN:OE1	2.36	0.41
2:KE:326:LYS:HB2	2:KE:326:LYS:HE3	1.87	0.41
3:KF:218:LYS:HB2	3:KF:277:SER:HB3	2.02	0.41
3:KF:358:ILE:HD12	3:KF:358:ILE:HA	1.94	0.41
2:LA:145:THR:OG1	4:LA:501:GTP:O2G	2.27	0.41
2:LA:212:ILE:HD13	2:LA:215:ARG:HH22	1.85	0.41
3:LB:101:ASN:HA	3:LB:144:GLY:N	2.33	0.41
3:LB:386:GLU:OE1	3:LB:389:LYS:NZ	2.53	0.41
2:LC:221:ARG:HE	3:LD:324:SER:HB3	1.86	0.41
3:LD:101:ASN:HA	3:LD:144:GLY:N	2.33	0.41
3:LD:209:LEU:HD13	3:LD:227:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LE:212:ILE:HD13	2:LE:215:ARG:HH22	1.85	0.41
2:MA:66:VAL:HG23	2:MA:91:GLN:O	2.19	0.41
2:MA:224:TYR:HE1	3:MB:325:MET:HG3	1.83	0.41
3:MB:8:GLN:HB3	3:MB:14:ASN:HA	2.03	0.41
3:MB:151:THR:HG21	3:MB:190:SER:HA	2.03	0.41
3:MD:151:THR:HG21	3:MD:190:SER:HA	2.03	0.41
3:MD:176:LYS:HB2	3:MD:207:GLU:OE1	2.21	0.41
2:ME:212:ILE:HD13	2:ME:215:ARG:HH22	1.85	0.41
3:MF:60:LYS:CE	3:NF:283:TYR:HA	2.50	0.41
3:MF:151:THR:HG21	3:MF:190:SER:HA	2.03	0.41
3:MF:176:LYS:HB2	3:MF:207:GLU:OE1	2.21	0.41
3:MF:320:ARG:HG3	3:MF:356:CYS:HB3	2.03	0.41
3:MF:332:MET:O	3:MF:336:GLN:NE2	2.45	0.41
3:MF:386:GLU:OE1	3:MF:389:LYS:NZ	2.53	0.41
2:NA:181:VAL:HG11	3:NB:258:ASN:O	2.21	0.41
2:NA:212:ILE:HD13	2:NA:215:ARG:HH22	1.85	0.41
3:NB:315:VAL:O	3:NB:351:VAL:HA	2.20	0.41
3:ND:218:LYS:HB2	3:ND:277:SER:HB3	2.02	0.41
3:ND:260:VAL:O	3:ND:260:VAL:HG13	2.20	0.41
2:NE:119:LEU:HD12	2:NE:119:LEU:HA	1.86	0.41
2:NE:344:VAL:C	2:NE:346:TRP:H	2.29	0.41
3:NF:260:VAL:HG13	3:NF:260:VAL:O	2.20	0.41
3:NF:315:VAL:O	3:NF:351:VAL:HA	2.20	0.41
1:1C:115:ARG:HA	1:1C:118:LEU:HD12	2.03	0.41
3:AB:32:PRO:HG3	3:AB:83:PHE:CE1	2.55	0.41
3:AB:151:THR:HG21	3:AB:190:SER:HA	2.03	0.41
2:AC:103:TYR:HB3	2:AC:408:TYR:HE2	1.87	0.41
3:AD:32:PRO:HG3	3:AD:83:PHE:CE1	2.56	0.41
3:AD:218:LYS:HB2	3:AD:277:SER:HB3	2.02	0.41
2:AE:344:VAL:C	2:AE:346:TRP:H	2.29	0.41
3:AF:32:PRO:HG3	3:AF:83:PHE:CE1	2.56	0.41
3:AF:176:LYS:HB2	3:AF:207:GLU:OE1	2.21	0.41
2:BA:219:ILE:HG23	2:BA:222:PRO:HD3	2.03	0.41
2:BA:224:TYR:CE1	3:BB:325:MET:HE2	2.55	0.41
3:BF:320:ARG:HG3	3:BF:356:CYS:HB3	2.03	0.41
2:CA:103:TYR:HB3	2:CA:408:TYR:HE2	1.86	0.41
2:CA:229:ARG:NH1	2:CA:366:GLY:HA2	2.36	0.41
2:CE:103:TYR:HB3	2:CE:408:TYR:HE2	1.86	0.41
2:CE:241:SER:OG	2:CE:250:VAL:O	2.28	0.41
2:DA:326:LYS:HB2	2:DA:326:LYS:HE3	1.87	0.41
4:DC:501:GTP:PG	3:DD:254:LYS:HZ1	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DD:151:THR:HG21	3:DD:190:SER:HA	2.03	0.41
2:DE:344:VAL:C	2:DE:346:TRP:H	2.29	0.41
3:DF:320:ARG:HG3	3:DF:356:CYS:HB3	2.03	0.41
2:EA:224:TYR:CD2	4:EA:501:GTP:C6	3.08	0.41
7:EB:502:TA1:H472	7:EB:502:TA1:H021	1.88	0.41
2:EE:224:TYR:CD2	4:EE:501:GTP:C6	3.08	0.41
3:EF:8:GLN:HB3	3:EF:14:ASN:HA	2.03	0.41
3:EF:141:LEU:HD11	3:EF:194:LEU:HD11	2.03	0.41
3:FD:8:GLN:HB3	3:FD:14:ASN:HA	2.03	0.41
3:FD:276:THR:OG1	3:FD:281:GLN:HB3	2.21	0.41
2:FE:219:ILE:HG23	2:FE:222:PRO:HD3	2.03	0.41
3:FF:141:LEU:HD11	3:FF:194:LEU:HD11	2.03	0.41
2:GA:85:GLN:OE1	2:GA:85:GLN:N	2.37	0.41
3:GB:8:GLN:HB3	3:GB:14:ASN:HA	2.03	0.41
2:GC:104:ALA:HA	2:GC:413:MET:HE3	2.03	0.41
2:GC:210:TYR:CE1	2:GC:227:LEU:HD11	2.49	0.41
3:GD:11:GLN:HB3	3:GD:74:THR:HG21	2.03	0.41
3:GD:218:LYS:HB2	3:GD:277:SER:HB3	2.02	0.41
2:GE:210:TYR:CE1	2:GE:227:LEU:HD11	2.49	0.41
3:GF:11:GLN:HB3	3:GF:74:THR:HG21	2.03	0.41
3:HB:260:VAL:HG21	3:HB:266:HIS:HB3	2.03	0.41
2:HC:68:VAL:HG11	2:HC:149:PHE:CE2	2.56	0.41
2:HC:344:VAL:C	2:HC:346:TRP:H	2.29	0.41
3:HD:390:ARG:HH22	3:HD:391:ILE:HG13	1.86	0.41
2:HE:344:VAL:C	2:HE:346:TRP:H	2.29	0.41
3:HF:11:GLN:HB3	3:HF:74:THR:HG21	2.03	0.41
3:HF:276:THR:OG1	3:HF:281:GLN:HB3	2.21	0.41
3:HF:390:ARG:HH22	3:HF:391:ILE:HG13	1.86	0.41
2:IA:317:LEU:N	2:IA:352:LYS:O	2.32	0.41
3:IB:176:LYS:HB2	3:IB:207:GLU:OE1	2.21	0.41
3:ID:11:GLN:HB3	3:ID:74:THR:HG21	2.03	0.41
3:ID:218:LYS:HB2	3:ID:277:SER:HB3	2.02	0.41
2:IE:265:ILE:HG13	2:IE:432:TYR:HE1	1.86	0.41
3:IF:11:GLN:HB3	3:IF:74:THR:HG21	2.03	0.41
2:JA:119:LEU:HD12	2:JA:122:ILE:HB	2.03	0.41
2:JC:119:LEU:HD12	2:JC:122:ILE:HB	2.03	0.41
2:JC:212:ILE:HD13	2:JC:215:ARG:HH22	1.85	0.41
2:JC:344:VAL:C	2:JC:346:TRP:H	2.29	0.41
2:JE:119:LEU:HD12	2:JE:122:ILE:HB	2.03	0.41
3:KB:407:TRP:HZ2	2:KC:256:GLN:OE1	2.03	0.41
2:KC:326:LYS:HB2	2:KC:326:LYS:HE3	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:KF:502:TA1:H472	7:KF:502:TA1:H021	1.88	0.41
3:LB:32:PRO:HG3	3:LB:83:PHE:CE1	2.55	0.41
3:LB:260:VAL:HG21	3:LB:266:HIS:HB3	2.03	0.41
2:LC:212:ILE:HD13	2:LC:215:ARG:HH22	1.85	0.41
2:LC:326:LYS:HB2	2:LC:326:LYS:HE3	1.87	0.41
3:LD:260:VAL:HG21	3:LD:266:HIS:HB3	2.03	0.41
3:LD:386:GLU:OE1	3:LD:389:LYS:NZ	2.53	0.41
2:MA:103:TYR:HB3	2:MA:408:TYR:HE2	1.86	0.41
2:MA:212:ILE:HD13	2:MA:215:ARG:HH22	1.85	0.41
3:MB:176:LYS:HB2	3:MB:207:GLU:OE1	2.21	0.41
2:MC:212:ILE:HD13	2:MC:215:ARG:HH22	1.85	0.41
3:MD:218:LYS:HB2	3:MD:277:SER:HB3	2.02	0.41
3:MD:320:ARG:HG3	3:MD:356:CYS:HB3	2.03	0.41
3:MF:8:GLN:HB3	3:MF:14:ASN:HA	2.02	0.41
3:NB:218:LYS:HB2	3:NB:277:SER:HB3	2.02	0.41
2:NC:344:VAL:C	2:NC:346:TRP:H	2.29	0.41
2:NE:172:TYR:HA	2:NE:173:PRO:HD3	1.98	0.41
2:NE:179:THR:O	3:NF:352:LYS:HD2	2.21	0.41
2:NE:212:ILE:HD13	2:NE:215:ARG:HH22	1.85	0.41
3:NF:32:PRO:HG3	3:NF:83:PHE:CE1	2.56	0.41
3:NF:151:THR:HG21	3:NF:190:SER:HA	2.03	0.41
2:AA:103:TYR:HB3	2:AA:408:TYR:HE2	1.87	0.40
2:AA:344:VAL:C	2:AA:346:TRP:H	2.29	0.40
3:AB:176:LYS:HB2	3:AB:207:GLU:OE1	2.21	0.40
3:AB:209:LEU:HD13	3:AB:227:LEU:HB3	2.02	0.40
2:AE:103:TYR:HB3	2:AE:408:TYR:HE2	1.87	0.40
3:AF:8:GLN:HB3	3:AF:14:ASN:HA	2.03	0.40
3:AF:209:LEU:HD13	3:AF:227:LEU:HB3	2.02	0.40
2:BA:101:ASN:N	3:BB:254:LYS:HZ2	2.19	0.40
2:BC:119:LEU:HD12	2:BC:122:ILE:HB	2.04	0.40
3:BF:158:ARG:NH2	3:BF:164:ARG:O	2.38	0.40
3:BF:218:LYS:HB2	3:BF:277:SER:HB3	2.02	0.40
2:CA:85:GLN:OE1	2:CA:85:GLN:N	2.37	0.40
2:CA:119:LEU:HD12	2:CA:122:ILE:HB	2.03	0.40
2:CA:224:TYR:CD2	4:CA:501:GTP:C6	3.09	0.40
3:CB:386:GLU:OE1	3:CB:389:LYS:NZ	2.53	0.40
2:CC:103:TYR:HB3	2:CC:408:TYR:HE2	1.87	0.40
2:CC:119:LEU:HD12	2:CC:122:ILE:HB	2.04	0.40
2:CC:219:ILE:HG23	2:CC:222:PRO:HD3	2.03	0.40
3:CD:209:LEU:HD13	3:CD:227:LEU:HB3	2.02	0.40
3:CD:390:ARG:HH22	3:CD:391:ILE:HG13	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:119:LEU:HD12	2:CE:122:ILE:HB	2.04	0.40
3:CF:209:LEU:HD13	3:CF:227:LEU:HB3	2.02	0.40
2:DA:219:ILE:HG23	2:DA:222:PRO:HD3	2.03	0.40
2:DA:224:TYR:CD2	4:DA:501:GTP:C6	3.08	0.40
2:DA:344:VAL:C	2:DA:346:TRP:H	2.29	0.40
3:DB:151:THR:HG21	3:DB:190:SER:HA	2.03	0.40
2:DC:344:VAL:C	2:DC:346:TRP:H	2.29	0.40
3:DD:320:ARG:HG3	3:DD:356:CYS:HB3	2.03	0.40
2:DE:219:ILE:HG23	2:DE:222:PRO:HD3	2.03	0.40
2:DE:224:TYR:CD2	4:DE:501:GTP:C6	3.08	0.40
3:DF:8:GLN:HB3	3:DF:14:ASN:HA	2.02	0.40
3:EB:260:VAL:O	3:EB:260:VAL:HG13	2.20	0.40
2:EC:219:ILE:HG23	2:EC:222:PRO:HD3	2.03	0.40
2:EC:224:TYR:HE1	3:ED:325:MET:HG3	1.86	0.40
3:ED:176:LYS:HB2	3:ED:207:GLU:OE1	2.21	0.40
2:FA:219:ILE:HG23	2:FA:222:PRO:HD3	2.03	0.40
3:FB:11:GLN:HB3	3:FB:74:THR:HG21	2.03	0.40
2:FE:104:ALA:HA	2:FE:413:MET:HE3	2.03	0.40
2:FE:212:ILE:HD13	2:FE:215:ARG:HH22	1.85	0.40
3:GB:11:GLN:HB3	3:GB:74:THR:HG21	2.03	0.40
3:GB:213:CYS:HA	3:GB:217:LEU:HB2	2.03	0.40
3:GD:8:GLN:HB3	3:GD:14:ASN:HA	2.03	0.40
3:GD:213:CYS:HA	3:GD:217:LEU:HB2	2.03	0.40
3:GD:260:VAL:HG21	3:GD:266:HIS:HB3	2.03	0.40
2:GE:104:ALA:HA	2:GE:413:MET:HE3	2.03	0.40
3:GF:8:GLN:HB3	3:GF:14:ASN:HA	2.02	0.40
2:HA:68:VAL:HG11	2:HA:149:PHE:CE2	2.56	0.40
2:HA:212:ILE:HD13	2:HA:215:ARG:HH22	1.85	0.40
2:HA:344:VAL:C	2:HA:346:TRP:H	2.29	0.40
2:HC:119:LEU:HD12	2:HC:119:LEU:HA	1.86	0.40
3:HD:11:GLN:HB3	3:HD:74:THR:HG21	2.03	0.40
3:HD:260:VAL:HG21	3:HD:266:HIS:HB3	2.04	0.40
3:HD:320:ARG:HG3	3:HD:356:CYS:HB3	2.03	0.40
2:HE:68:VAL:HG11	2:HE:149:PHE:CE2	2.56	0.40
3:HF:213:CYS:HA	3:HF:217:LEU:HB2	2.03	0.40
3:HF:260:VAL:HG21	3:HF:266:HIS:HB3	2.04	0.40
2:IA:212:ILE:HD13	2:IA:215:ARG:HH22	1.85	0.40
2:IA:265:ILE:HG13	2:IA:432:TYR:HE1	1.86	0.40
3:IB:260:VAL:O	3:IB:260:VAL:HG13	2.20	0.40
3:IB:276:THR:OG1	3:IB:281:GLN:HB3	2.21	0.40
3:ID:260:VAL:O	3:ID:260:VAL:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:ID:320:ARG:O	3:ID:323:MET:HE1	2.20	0.40
3:ID:390:ARG:HH22	3:ID:391:ILE:HG13	1.86	0.40
2:IE:68:VAL:HG11	2:IE:149:PHE:CE2	2.56	0.40
2:IE:401:LYS:HZ2	3:IF:346:TRP:NE1	2.19	0.40
3:IF:218:LYS:HB2	3:IF:277:SER:HB3	2.02	0.40
3:IF:390:ARG:HH22	3:IF:391:ILE:HG13	1.86	0.40
2:JA:344:VAL:C	2:JA:346:TRP:H	2.29	0.40
3:JB:260:VAL:O	3:JB:260:VAL:HG13	2.20	0.40
3:JD:320:ARG:HG3	3:JD:356:CYS:HB3	2.04	0.40
2:JE:344:VAL:C	2:JE:346:TRP:H	2.29	0.40
3:JF:11:GLN:HB3	3:JF:74:THR:HG21	2.03	0.40
3:JF:274:PRO:HA	3:JF:294:GLN:NE2	2.36	0.40
2:KC:119:LEU:HD12	2:KC:122:ILE:HB	2.04	0.40
3:KD:11:GLN:HB3	3:KD:74:THR:HG21	2.03	0.40
2:KE:119:LEU:HD12	2:KE:122:ILE:HB	2.03	0.40
3:KF:11:GLN:HB3	3:KF:74:THR:HG21	2.03	0.40
2:LA:119:LEU:HD12	2:LA:122:ILE:HB	2.04	0.40
7:LB:502:TA1:H472	7:LB:502:TA1:H021	1.88	0.40
2:LC:119:LEU:HD12	2:LC:122:ILE:HB	2.04	0.40
2:LC:210:TYR:CE1	2:LC:227:LEU:HD11	2.49	0.40
2:LC:219:ILE:HG23	2:LC:222:PRO:HD3	2.03	0.40
3:LD:32:PRO:HG3	3:LD:83:PHE:CE1	2.56	0.40
2:LE:119:LEU:HD12	2:LE:122:ILE:HB	2.03	0.40
2:LE:210:TYR:CE1	2:LE:227:LEU:HD11	2.49	0.40
2:LE:219:ILE:HG23	2:LE:222:PRO:HD3	2.03	0.40
3:LF:8:GLN:HB3	3:LF:14:ASN:HA	2.03	0.40
3:LF:11:GLN:HB3	3:LF:74:THR:HG21	2.03	0.40
3:LF:32:PRO:HG3	3:LF:83:PHE:CE1	2.56	0.40
3:LF:209:LEU:HD13	3:LF:227:LEU:HB3	2.02	0.40
3:LF:260:VAL:HG21	3:LF:266:HIS:HB3	2.03	0.40
2:MA:314:ALA:N	2:MA:380:ASN:OD1	2.50	0.40
3:MB:260:VAL:HG21	3:MB:266:HIS:HB3	2.03	0.40
3:MB:347:ILE:HG23	3:MB:350:ASN:HD22	1.86	0.40
2:MC:229:ARG:NH1	2:MC:366:GLY:HA2	2.36	0.40
3:MD:101:ASN:HA	3:MD:144:GLY:N	2.33	0.40
3:MD:260:VAL:HG21	3:MD:266:HIS:HB3	2.03	0.40
2:ME:229:ARG:NH1	2:ME:366:GLY:HA2	2.36	0.40
3:MF:268:PHE:HD1	3:MF:268:PHE:HA	1.76	0.40
2:NA:119:LEU:HD12	2:NA:119:LEU:HA	1.86	0.40
2:NA:229:ARG:NH1	2:NA:366:GLY:HA2	2.36	0.40
3:NB:101:ASN:HA	3:NB:144:GLY:N	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NC:212:ILE:HD13	2:NC:215:ARG:HH22	1.85	0.40
3:ND:151:THR:HG21	3:ND:190:SER:HA	2.03	0.40
1:1B:35:ASN:OD1	1:1B:38:ARG:HB2	2.21	0.40
3:AB:218:LYS:HB2	3:AB:277:SER:HB3	2.02	0.40
2:AC:68:VAL:HG11	2:AC:149:PHE:CE2	2.56	0.40
2:AC:119:LEU:HD12	2:AC:122:ILE:HB	2.03	0.40
3:AD:8:GLN:HB3	3:AD:14:ASN:HA	2.03	0.40
3:AD:209:LEU:HD13	3:AD:227:LEU:HB3	2.02	0.40
3:AF:386:GLU:OE1	3:AF:389:LYS:NZ	2.53	0.40
2:BA:119:LEU:HD12	2:BA:122:ILE:HB	2.04	0.40
3:BB:151:THR:HG21	3:BB:190:SER:HA	2.03	0.40
3:BB:218:LYS:HD3	3:BB:218:LYS:HA	1.92	0.40
3:BB:320:ARG:HG3	3:BB:356:CYS:HB3	2.03	0.40
2:BC:232:SER:OG	2:BC:233:GLN:OE1	2.36	0.40
3:BD:218:LYS:HB2	3:BD:277:SER:HB3	2.02	0.40
3:BD:320:ARG:HG3	3:BD:356:CYS:HB3	2.03	0.40
2:BE:119:LEU:HD12	2:BE:122:ILE:HB	2.04	0.40
2:CA:219:ILE:HG23	2:CA:222:PRO:HD3	2.03	0.40
3:CB:179:ASP:O	2:CC:352:LYS:HD2	2.21	0.40
2:CC:229:ARG:NH1	2:CC:366:GLY:HA2	2.36	0.40
3:CD:386:GLU:OE1	3:CD:389:LYS:NZ	2.53	0.40
2:CE:229:ARG:NH1	2:CE:366:GLY:HA2	2.36	0.40
3:CF:390:ARG:HH22	3:CF:391:ILE:HG13	1.86	0.40
2:DA:119:LEU:HD12	2:DA:122:ILE:HB	2.03	0.40
2:DC:119:LEU:HD12	2:DC:122:ILE:HB	2.04	0.40
2:DC:219:ILE:HG23	2:DC:222:PRO:HD3	2.03	0.40
2:DC:224:TYR:CD2	4:DC:501:GTP:C6	3.09	0.40
2:DE:119:LEU:HD12	2:DE:122:ILE:HB	2.03	0.40
3:DF:11:GLN:HB3	3:DF:74:THR:HG21	2.03	0.40
2:EA:103:TYR:HB3	2:EA:408:TYR:HE2	1.87	0.40
2:EA:394:LYS:NZ	3:EB:348:PRO:HG3	2.36	0.40
2:EC:119:LEU:HD12	2:EC:122:ILE:HB	2.03	0.40
3:ED:8:GLN:HB3	3:ED:14:ASN:HA	2.03	0.40
2:EE:103:TYR:HB3	2:EE:408:TYR:HE2	1.86	0.40
3:EF:11:GLN:HB3	3:EF:74:THR:HG21	2.03	0.40
3:EF:151:THR:HG21	3:EF:190:SER:HA	2.03	0.40
3:EF:176:LYS:HB2	3:EF:207:GLU:OE1	2.21	0.40
3:EF:213:CYS:HA	3:EF:217:LEU:HB2	2.03	0.40
2:FA:224:TYR:CD2	4:FA:501:GTP:C6	3.09	0.40
2:FA:331:ALA:O	2:FA:334:THR:OG1	2.36	0.40
3:FB:141:LEU:HD11	3:FB:194:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FC:104:ALA:HA	2:FC:413:MET:HE3	2.03	0.40
2:FC:219:ILE:HG23	2:FC:222:PRO:HD3	2.03	0.40
2:FC:224:TYR:CD2	4:FC:501:GTP:C6	3.08	0.40
3:FD:141:LEU:HD11	3:FD:194:LEU:HD11	2.03	0.40
2:FE:224:TYR:CD2	4:FE:501:GTP:C6	3.09	0.40
3:GB:260:VAL:HG21	3:GB:266:HIS:HB3	2.03	0.40
2:GE:401:LYS:CD	3:GF:346:TRP:NE1	2.77	0.40
3:GF:218:LYS:HB2	3:GF:277:SER:HB3	2.02	0.40
3:GF:260:VAL:HG21	3:GF:266:HIS:HB3	2.03	0.40
2:HA:360:PRO:HG3	2:HA:374:ALA:HB2	2.03	0.40
3:HB:11:GLN:HB3	3:HB:74:THR:HG21	2.03	0.40
3:HB:213:CYS:HA	3:HB:217:LEU:HB2	2.03	0.40
3:HB:320:ARG:HG3	3:HB:356:CYS:HB3	2.03	0.40
2:HC:360:PRO:HG3	2:HC:374:ALA:HB2	2.03	0.40
2:HE:360:PRO:HG3	2:HE:374:ALA:HB2	2.03	0.40
3:HF:8:GLN:HB3	3:HF:14:ASN:HA	2.03	0.40
3:HF:320:ARG:HG3	3:HF:356:CYS:HB3	2.03	0.40
2:IA:205:ASP:O	2:IA:209:ILE:HG22	2.22	0.40
3:IB:11:GLN:HB3	3:IB:74:THR:HG21	2.03	0.40
3:IB:320:ARG:O	3:IB:323:MET:HE1	2.20	0.40
2:IC:119:LEU:HD12	2:IC:122:ILE:HB	2.04	0.40
2:IC:229:ARG:NH1	2:IC:366:GLY:HA2	2.36	0.40
3:ID:260:VAL:HG21	3:ID:266:HIS:HB3	2.03	0.40
3:ID:276:THR:OG1	3:ID:281:GLN:HB3	2.21	0.40
3:IF:260:VAL:HG21	3:IF:266:HIS:HB3	2.03	0.40
3:JF:320:ARG:HG3	3:JF:356:CYS:HB3	2.03	0.40
2:KA:219:ILE:HG23	2:KA:222:PRO:HD3	2.03	0.40
2:KA:407:TRP:CZ2	3:KB:260:VAL:HG13	2.56	0.40
3:KD:151:THR:HG21	3:KD:190:SER:HA	2.03	0.40
3:KD:320:ARG:HG3	3:KD:356:CYS:HB3	2.03	0.40
3:KF:274:PRO:HA	3:KF:294:GLN:NE2	2.36	0.40
3:KF:276:THR:OG1	3:KF:281:GLN:HB3	2.21	0.40
2:LA:219:ILE:HG23	2:LA:222:PRO:HD3	2.03	0.40
2:LC:221:ARG:NE	3:LD:324:SER:HB3	2.37	0.40
2:LC:344:VAL:C	2:LC:346:TRP:H	2.29	0.40
3:LD:8:GLN:HB3	3:LD:14:ASN:HA	2.02	0.40
2:LE:344:VAL:C	2:LE:346:TRP:H	2.29	0.40
3:MB:320:ARG:HG3	3:MB:356:CYS:HB3	2.03	0.40
2:MC:103:TYR:HB3	2:MC:408:TYR:HE2	1.87	0.40
2:MC:422:ARG:CB	2:MC:425:MET:HE2	2.38	0.40
3:MD:11:GLN:HB3	3:MD:74:THR:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:103:TYR:HB3	2:ME:408:TYR:HE2	1.87	0.40
2:ME:422:ARG:CB	2:ME:425:MET:HE2	2.38	0.40
3:MF:11:GLN:HB3	3:MF:74:THR:HG21	2.03	0.40
3:MF:260:VAL:HG21	3:MF:266:HIS:HB3	2.03	0.40
2:NA:119:LEU:HD12	2:NA:122:ILE:HB	2.03	0.40
3:NB:260:VAL:HG21	3:NB:266:HIS:HB3	2.03	0.40
3:ND:260:VAL:HG21	3:ND:266:HIS:HB3	2.03	0.40
2:NE:229:ARG:NH1	2:NE:366:GLY:HA2	2.36	0.40
3:NF:101:ASN:HA	3:NF:144:GLY:N	2.33	0.40
3:NF:218:LYS:HB2	3:NF:277:SER:HB3	2.02	0.40
2:AA:68:VAL:HG11	2:AA:149:PHE:CE2	2.56	0.40
2:AA:119:LEU:HD12	2:AA:122:ILE:HB	2.04	0.40
3:AB:8:GLN:HB3	3:AB:14:ASN:HA	2.02	0.40
3:AB:320:ARG:HG3	3:AB:356:CYS:HB3	2.03	0.40
3:AB:386:GLU:OE1	3:AB:389:LYS:NZ	2.53	0.40
3:AD:320:ARG:HG3	3:AD:356:CYS:HB3	2.03	0.40
2:AE:105:ARG:NH1	3:AF:253:ARG:HD2	2.34	0.40
3:AF:218:LYS:HB2	3:AF:277:SER:HB3	2.02	0.40
3:BB:218:LYS:HB2	3:BB:277:SER:HB3	2.02	0.40
3:BD:158:ARG:NH2	3:BD:164:ARG:O	2.38	0.40
2:BE:232:SER:OG	2:BE:233:GLN:OE1	2.36	0.40
3:BF:347:ILE:HG23	3:BF:350:ASN:HD22	1.86	0.40
2:CA:400:ALA:HB3	3:CB:346:TRP:CH2	2.50	0.40
3:CB:209:LEU:HD13	3:CB:227:LEU:HB3	2.02	0.40
3:CB:390:ARG:HH22	3:CB:391:ILE:HG13	1.86	0.40
2:CC:224:TYR:CD2	4:CC:501:GTP:C6	3.08	0.40
3:CF:276:THR:OG1	3:CF:281:GLN:HB3	2.21	0.40
3:CF:386:GLU:OE1	3:CF:389:LYS:NZ	2.53	0.40
2:DC:331:ALA:O	2:DC:334:THR:OG1	2.36	0.40
2:EA:229:ARG:NH1	2:EA:366:GLY:HA2	2.36	0.40
3:EB:8:GLN:HB3	3:EB:14:ASN:HA	2.03	0.40
3:EB:213:CYS:HA	3:EB:217:LEU:HB2	2.03	0.40
2:EC:103:TYR:HB3	2:EC:408:TYR:HE2	1.87	0.40
2:EC:104:ALA:HA	2:EC:413:MET:HE3	2.03	0.40
2:EC:229:ARG:NH1	2:EC:366:GLY:HA2	2.36	0.40
3:ED:11:GLN:HB3	3:ED:74:THR:HG21	2.03	0.40
2:EE:212:ILE:HD13	2:EE:215:ARG:HH22	1.85	0.40
2:EE:222:PRO:HG2	3:EF:326:LYS:HZ1	1.86	0.40
2:EE:229:ARG:NH1	2:EE:366:GLY:HA2	2.36	0.40
7:EF:502:TA1:H193	7:EF:502:TA1:H021	1.91	0.40
2:FA:224:TYR:CE1	3:FB:325:MET:HE2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FA:401:LYS:CE	3:FB:346:TRP:HE1	2.34	0.40
3:FB:320:ARG:HG3	3:FB:356:CYS:HB3	2.03	0.40
3:FD:320:ARG:HG3	3:FD:356:CYS:HB3	2.03	0.40
3:FF:151:THR:HG21	3:FF:190:SER:HA	2.03	0.40
3:FF:213:CYS:HA	3:FF:217:LEU:HB2	2.03	0.40
3:FF:320:ARG:HG3	3:FF:356:CYS:HB3	2.03	0.40
2:GA:205:ASP:O	2:GA:209:ILE:HG22	2.22	0.40
2:GE:360:PRO:HG3	2:GE:374:ALA:HB2	2.03	0.40
3:GF:213:CYS:HA	3:GF:217:LEU:HB2	2.03	0.40
2:HA:119:LEU:HD12	2:HA:119:LEU:HA	1.86	0.40
3:HB:103:TRP:HZ2	3:HB:193:GLN:NE2	2.20	0.40
3:HB:276:THR:OG1	3:HB:281:GLN:HB3	2.21	0.40
3:HD:8:GLN:HB3	3:HD:14:ASN:HA	2.03	0.40
3:HD:213:CYS:HA	3:HD:217:LEU:HB2	2.03	0.40
3:HD:276:THR:OG1	3:HD:281:GLN:HB3	2.21	0.40
2:IA:68:VAL:HG11	2:IA:149:PHE:CE2	2.56	0.40
2:IA:119:LEU:HD12	2:IA:122:ILE:HB	2.04	0.40
2:IA:210:TYR:CE1	2:IA:227:LEU:HD11	2.49	0.40
3:IB:174:SER:O	3:IB:178:SER:HB2	2.22	0.40
2:IC:68:VAL:HG11	2:IC:149:PHE:CE2	2.56	0.40
2:IE:119:LEU:HD12	2:IE:122:ILE:HB	2.04	0.40
2:IE:205:ASP:O	2:IE:209:ILE:HG22	2.22	0.40
2:IE:224:TYR:CE1	3:IF:325:MET:HG3	2.56	0.40
3:IF:260:VAL:O	3:IF:260:VAL:HG13	2.20	0.40
3:IF:320:ARG:O	3:IF:323:MET:HE1	2.20	0.40
2:JA:8:HIS:HB2	2:JA:67:PHE:HD1	1.87	0.40
2:JA:98:ASP:CG	3:JB:254:LYS:HE2	2.46	0.40
2:JA:104:ALA:HA	2:JA:413:MET:HE3	2.03	0.40
3:JB:274:PRO:HA	3:JB:294:GLN:NE2	2.36	0.40
2:JC:103:TYR:HB3	2:JC:408:TYR:HE2	1.86	0.40
3:JD:11:GLN:HB3	3:JD:74:THR:HG21	2.03	0.40
3:JD:274:PRO:HA	3:JD:294:GLN:NE2	2.36	0.40
2:JE:179:THR:O	3:JF:352:LYS:HD2	2.21	0.40
3:KD:181:VAL:HG13	2:KE:349:THR:HG21	2.02	0.40
3:KD:276:THR:OG1	3:KD:281:GLN:HB3	2.21	0.40
3:KF:8:GLN:HB3	3:KF:14:ASN:HA	2.02	0.40
3:KF:320:ARG:HG3	3:KF:356:CYS:HB3	2.03	0.40
2:LC:98:ASP:CG	3:LD:254:LYS:HE2	2.46	0.40
3:LD:11:GLN:HB3	3:LD:74:THR:HG21	2.03	0.40
2:MA:119:LEU:HD12	2:MA:122:ILE:HB	2.03	0.40
2:MA:229:ARG:NH1	2:MA:366:GLY:HA2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:MB:60:LYS:HE3	3:NB:283:TYR:CA	2.43	0.40
3:MB:213:CYS:HA	3:MB:217:LEU:HB2	2.03	0.40
3:MB:218:LYS:HB2	3:MB:277:SER:HB3	2.02	0.40
3:MF:32:PRO:HG3	3:MF:83:PHE:CE1	2.56	0.40
3:NB:151:THR:HG21	3:NB:190:SER:HA	2.03	0.40
2:NC:119:LEU:HD12	2:NC:122:ILE:HB	2.03	0.40
2:NC:229:ARG:NH1	2:NC:366:GLY:HA2	2.36	0.40
2:NC:326:LYS:HB2	2:NC:326:LYS:HE3	1.87	0.40
3:ND:101:ASN:HA	3:ND:144:GLY:N	2.33	0.40
2:NE:119:LEU:HD12	2:NE:122:ILE:HB	2.04	0.40
2:NE:394:LYS:NZ	3:NF:348:PRO:HG3	2.36	0.40
3:NF:8:GLN:HB3	3:NF:14:ASN:HA	2.03	0.40
2:AC:407:TRP:CZ2	3:AD:260:VAL:HG13	2.56	0.40
3:AD:213:CYS:HA	3:AD:217:LEU:HB2	2.03	0.40
3:AD:386:GLU:OE1	3:AD:389:LYS:NZ	2.53	0.40
2:AE:119:LEU:HD12	2:AE:122:ILE:HB	2.04	0.40
2:AE:224:TYR:CD1	3:AF:247:GLN:NE2	2.90	0.40
3:AF:158:ARG:NH2	3:AF:164:ARG:O	2.38	0.40
3:AF:213:CYS:HA	3:AF:217:LEU:HB2	2.03	0.40
3:AF:320:ARG:HG3	3:AF:356:CYS:HB3	2.03	0.40
2:CC:68:VAL:HG11	2:CC:149:PHE:CE2	2.56	0.40
2:CE:68:VAL:HG11	2:CE:149:PHE:CE2	2.56	0.40
2:CE:224:TYR:CD2	4:CE:501:GTP:C6	3.09	0.40
2:DA:290:GLU:OE2	2:DA:291:ILE:HG23	2.22	0.40
3:DB:11:GLN:HB3	3:DB:74:THR:HG21	2.03	0.40
3:DD:8:GLN:HB3	3:DD:14:ASN:HA	2.03	0.40
3:DF:174:SER:O	3:DF:178:SER:HB2	2.22	0.40
2:EA:119:LEU:HD12	2:EA:122:ILE:HB	2.03	0.40
2:EA:205:ASP:O	2:EA:209:ILE:HG22	2.22	0.40
3:EB:218:LYS:HB2	3:EB:277:SER:HB3	2.02	0.40
3:ED:151:THR:HG21	3:ED:190:SER:HA	2.03	0.40
3:ED:218:LYS:HB2	3:ED:277:SER:HB3	2.02	0.40
3:ED:260:VAL:HG13	3:ED:260:VAL:O	2.20	0.40
3:EF:163:ASP:OD2	3:EF:163:ASP:N	2.54	0.40
3:EF:276:THR:OG1	3:EF:281:GLN:HB3	2.21	0.40
2:FA:344:VAL:C	2:FA:346:TRP:H	2.29	0.40
3:FB:213:CYS:HA	3:FB:217:LEU:HB2	2.03	0.40
3:FB:394:GLN:NE2	2:FC:348:PRO:HG2	2.33	0.40
2:FC:344:VAL:C	2:FC:346:TRP:H	2.29	0.40
3:FD:213:CYS:HA	3:FD:217:LEU:HB2	2.03	0.40
2:FE:8:HIS:HB2	2:FE:67:PHE:HD1	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FE:201:ALA:O	2:FE:268:PRO:HD2	2.22	0.40
2:GA:210:TYR:CE1	2:GA:227:LEU:HD11	2.49	0.40
2:GA:224:TYR:CD1	3:GB:325:MET:HE2	2.56	0.40
2:GA:360:PRO:HG3	2:GA:374:ALA:HB2	2.03	0.40
2:GC:205:ASP:O	2:GC:209:ILE:HG22	2.22	0.40
2:GC:224:TYR:CD2	4:GC:501:GTP:C6	3.09	0.40
2:GC:360:PRO:HG3	2:GC:374:ALA:HB2	2.03	0.40
3:GD:145:THR:CG2	3:GD:149:MET:HE2	2.52	0.40
2:GE:68:VAL:HG11	2:GE:149:PHE:CE2	2.56	0.40
2:GE:121:ARG:HA	2:GE:121:ARG:NE	2.35	0.40
2:GE:205:ASP:O	2:GE:209:ILE:HG22	2.22	0.40
3:GF:276:THR:OG1	3:GF:281:GLN:HB3	2.21	0.40
3:HB:8:GLN:HB3	3:HB:14:ASN:HA	2.03	0.40
3:HD:103:TRP:HZ2	3:HD:193:GLN:NE2	2.20	0.40
3:HF:103:TRP:HZ2	3:HF:193:GLN:NE2	2.20	0.40
3:HF:145:THR:CG2	3:HF:149:MET:HE2	2.52	0.40
2:IA:8:HIS:HB2	2:IA:67:PHE:HD1	1.87	0.40
2:IA:229:ARG:NH1	2:IA:366:GLY:HA2	2.36	0.40
3:IB:260:VAL:HG21	3:IB:266:HIS:HB3	2.04	0.40
2:IC:103:TYR:HB3	2:IC:408:TYR:HE2	1.86	0.40
2:IC:205:ASP:O	2:IC:209:ILE:HG22	2.22	0.40
3:ID:174:SER:O	3:ID:178:SER:HB2	2.22	0.40
2:IE:103:TYR:HB3	2:IE:408:TYR:HE2	1.86	0.40
2:IE:210:TYR:CE1	2:IE:227:LEU:HD11	2.49	0.40
2:IE:219:ILE:HG23	2:IE:222:PRO:HD3	2.03	0.40
3:IF:274:PRO:HA	3:IF:294:GLN:NE2	2.36	0.40
3:IF:276:THR:OG1	3:IF:281:GLN:HB3	2.21	0.40
2:JA:103:TYR:HB3	2:JA:408:TYR:HE2	1.87	0.40
2:JA:229:ARG:NH1	2:JA:366:GLY:HA2	2.36	0.40
3:JB:11:GLN:HB3	3:JB:74:THR:HG21	2.03	0.40
3:JB:176:LYS:HB2	3:JB:207:GLU:OE1	2.21	0.40
2:JC:210:TYR:CE1	2:JC:227:LEU:HD11	2.49	0.40
2:JC:401:LYS:HZ2	3:JD:346:TRP:NE1	2.19	0.40
3:JD:176:LYS:HB2	3:JD:207:GLU:OE1	2.21	0.40
2:JE:8:HIS:HB2	2:JE:67:PHE:HD1	1.87	0.40
2:JE:104:ALA:HA	2:JE:413:MET:HE3	2.03	0.40
2:JE:326:LYS:HB2	2:JE:326:LYS:HE3	1.87	0.40
3:JF:174:SER:O	3:JF:178:SER:HB2	2.22	0.40
3:JF:176:LYS:HB2	3:JF:207:GLU:OE1	2.21	0.40
2:KA:8:HIS:HB2	2:KA:67:PHE:HD1	1.87	0.40
3:KB:320:ARG:HG3	3:KB:356:CYS:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:KD:8:GLN:HB3	3:KD:14:ASN:HA	2.02	0.40
2:KE:219:ILE:HG23	2:KE:222:PRO:HD3	2.03	0.40
3:KF:88:ARG:HH12	3:LF:283:TYR:HB2	1.87	0.40
6:KF:501:GDP:H8	6:KF:501:GDP:H2'	1.81	0.40
2:LA:210:TYR:CE1	2:LA:227:LEU:HD11	2.49	0.40
3:LB:274:PRO:HA	3:LB:294:GLN:NE2	2.36	0.40
3:LB:320:ARG:HG3	3:LB:356:CYS:HB3	2.03	0.40
3:LD:151:THR:HG21	3:LD:190:SER:HA	2.03	0.40
3:LD:274:PRO:HA	3:LD:294:GLN:NE2	2.36	0.40
2:LE:401:LYS:CE	3:LF:346:TRP:HE1	2.33	0.40
3:LF:19:LYS:O	3:LF:23:VAL:HG23	2.22	0.40
3:LF:151:THR:HG21	3:LF:190:SER:HA	2.03	0.40
3:LF:274:PRO:HA	3:LF:294:GLN:NE2	2.36	0.40
3:LF:386:GLU:OE1	3:LF:389:LYS:NZ	2.53	0.40
3:MB:11:GLN:HB3	3:MB:74:THR:HG21	2.03	0.40
3:MB:268:PHE:HD1	3:MB:268:PHE:HA	1.76	0.40
2:MC:119:LEU:HD12	2:MC:122:ILE:HB	2.03	0.40
3:MD:347:ILE:HG23	3:MD:350:ASN:HD22	1.86	0.40
2:ME:119:LEU:HD12	2:ME:122:ILE:HB	2.04	0.40
2:NA:85:GLN:OE1	2:NA:85:GLN:N	2.37	0.40
3:NB:176:LYS:HB2	3:NB:207:GLU:OE1	2.21	0.40
3:ND:209:LEU:HD13	3:ND:227:LEU:HB3	2.02	0.40
3:NF:209:LEU:HD13	3:NF:227:LEU:HB3	2.02	0.40
1:1D:23:TRP:CE3	1:1D:27:ILE:HD11	2.57	0.40
1:1E:35:ASN:OD1	1:1E:38:ARG:HB2	2.21	0.40
2:AA:229:ARG:NH1	2:AA:366:GLY:HA2	2.36	0.40
3:AD:158:ARG:NH2	3:AD:164:ARG:O	2.38	0.40
2:AE:8:HIS:HB2	2:AE:67:PHE:HD1	1.87	0.40
2:AE:68:VAL:HG11	2:AE:149:PHE:CE2	2.56	0.40
2:BA:422:ARG:CB	2:BA:425:MET:HE2	2.38	0.40
3:BB:174:SER:O	3:BB:178:SER:HB2	2.22	0.40
3:BD:347:ILE:HG23	3:BD:350:ASN:HD22	1.86	0.40
2:BE:100:ALA:O	3:BF:257:VAL:HG11	2.22	0.40
3:BF:174:SER:O	3:BF:178:SER:HB2	2.22	0.40
2:CA:68:VAL:HG11	2:CA:149:PHE:CE2	2.56	0.40
2:CA:344:VAL:C	2:CA:346:TRP:H	2.29	0.40
3:CB:276:THR:OG1	3:CB:281:GLN:HB3	2.21	0.40
3:CD:11:GLN:HB3	3:CD:74:THR:HG21	2.03	0.40
3:CD:276:THR:OG1	3:CD:281:GLN:HB3	2.21	0.40
2:CE:105:ARG:HH12	3:CF:253:ARG:HD2	1.86	0.40
3:DB:8:GLN:HB3	3:DB:14:ASN:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DC:205:ASP:O	2:DC:209:ILE:HG22	2.22	0.40
2:DC:290:GLU:OE2	2:DC:291:ILE:HG23	2.22	0.40
3:DD:11:GLN:HB3	3:DD:74:THR:HG21	2.03	0.40
2:DE:290:GLU:OE2	2:DE:291:ILE:HG23	2.22	0.40
2:EA:68:VAL:HG11	2:EA:149:PHE:CZ	2.57	0.40
2:EA:201:ALA:O	2:EA:268:PRO:HD2	2.22	0.40
3:EB:11:GLN:HB3	3:EB:74:THR:HG21	2.03	0.40
2:EC:8:HIS:HB2	2:EC:67:PHE:HD1	1.87	0.40
2:EC:68:VAL:HG11	2:EC:149:PHE:CZ	2.57	0.40
2:EC:201:ALA:O	2:EC:268:PRO:HD2	2.22	0.40
2:EC:212:ILE:HD13	2:EC:215:ARG:HH22	1.85	0.40
3:ED:163:ASP:OD2	3:ED:163:ASP:N	2.54	0.40
2:EE:8:HIS:HB2	2:EE:67:PHE:HD1	1.87	0.40
2:EE:68:VAL:HG11	2:EE:149:PHE:CZ	2.57	0.40
2:EE:119:LEU:HD12	2:EE:122:ILE:HB	2.04	0.40
2:EE:201:ALA:O	2:EE:268:PRO:HD2	2.22	0.40
3:EF:218:LYS:HB2	3:EF:277:SER:HB3	2.02	0.40
3:FB:145:THR:CG2	3:FB:149:MET:HE2	2.52	0.40
2:FC:201:ALA:O	2:FC:268:PRO:HD2	2.22	0.40
2:FC:229:ARG:NH1	2:FC:366:GLY:HA2	2.36	0.40
2:FC:290:GLU:OE2	2:FC:291:ILE:HG23	2.22	0.40
2:FC:360:PRO:HG3	2:FC:374:ALA:HB2	2.03	0.40
3:FD:151:THR:HG21	3:FD:190:SER:HA	2.03	0.40
2:FE:229:ARG:NH1	2:FE:366:GLY:HA2	2.36	0.40
2:FE:232:SER:OG	2:FE:233:GLN:OE1	2.36	0.40
2:FE:344:VAL:C	2:FE:346:TRP:H	2.29	0.40
3:FF:88:ARG:NH1	3:GF:283:TYR:CB	2.85	0.40
2:GA:68:VAL:HG11	2:GA:149:PHE:CE2	2.56	0.40
3:GB:145:THR:CG2	3:GB:149:MET:HE2	2.52	0.40
2:GC:68:VAL:HG11	2:GC:149:PHE:CE2	2.56	0.40
2:GC:119:LEU:HD12	2:GC:119:LEU:HA	1.86	0.40
2:GC:290:GLU:OE2	2:GC:291:ILE:HG23	2.22	0.40
3:GD:103:TRP:HZ2	3:GD:193:GLN:NE2	2.20	0.40
2:GE:224:TYR:CD2	4:GE:501:GTP:C6	3.08	0.40
2:GE:290:GLU:OE2	2:GE:291:ILE:HG23	2.22	0.40
3:GF:103:TRP:HZ2	3:GF:193:GLN:NE2	2.20	0.40
3:GF:145:THR:CG2	3:GF:149:MET:HE2	2.52	0.40
3:HB:145:THR:CG2	3:HB:149:MET:HE2	2.52	0.40
2:HC:205:ASP:O	2:HC:209:ILE:HG22	2.22	0.40
2:HC:265:ILE:HG13	2:HC:432:TYR:HE1	1.86	0.40
3:HD:145:THR:CG2	3:HD:149:MET:HE2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:104:ALA:HA	2:HE:413:MET:HE3	2.03	0.40
2:HE:205:ASP:O	2:HE:209:ILE:HG22	2.22	0.40
3:IB:103:TRP:HZ2	3:IB:193:GLN:NE2	2.20	0.40
3:IB:274:PRO:HA	3:IB:294:GLN:NE2	2.36	0.40
2:IC:8:HIS:HB2	2:IC:67:PHE:HD1	1.87	0.40
3:ID:274:PRO:HA	3:ID:294:GLN:NE2	2.36	0.40
3:ID:401:ARG:HD2	2:IE:346:TRP:CZ2	2.57	0.40
2:IE:8:HIS:HB2	2:IE:67:PHE:HD1	1.87	0.40
2:IE:229:ARG:NH1	2:IE:366:GLY:HA2	2.36	0.40
3:IF:174:SER:O	3:IF:178:SER:HB2	2.22	0.40
3:IF:268:PHE:HD1	3:IF:268:PHE:HA	1.76	0.40
2:JA:205:ASP:O	2:JA:209:ILE:HG22	2.22	0.40
2:JC:8:HIS:HB2	2:JC:67:PHE:HD1	1.87	0.40
2:JC:205:ASP:O	2:JC:209:ILE:HG22	2.22	0.40
3:JD:8:GLN:HB3	3:JD:14:ASN:HA	2.03	0.40
3:JD:174:SER:O	3:JD:178:SER:HB2	2.22	0.40
3:JD:332:MET:O	3:JD:336:GLN:NE2	2.45	0.40
2:JE:103:TYR:HB3	2:JE:408:TYR:HE2	1.87	0.40
2:JE:105:ARG:NH1	3:JF:253:ARG:HD2	2.34	0.40
2:JE:205:ASP:O	2:JE:209:ILE:HG22	2.22	0.40
2:JE:229:ARG:NH1	2:JE:366:GLY:HA2	2.36	0.40
3:JF:8:GLN:HB3	3:JF:14:ASN:HA	2.03	0.40
3:JF:60:LYS:HE3	3:KF:283:TYR:HA	2.03	0.40
3:JF:151:THR:HG21	3:JF:190:SER:HA	2.03	0.40
3:KB:11:GLN:HB3	3:KB:74:THR:HG21	2.03	0.40
3:KB:151:THR:HG21	3:KB:190:SER:HA	2.03	0.40
3:KB:276:THR:OG1	3:KB:281:GLN:HB3	2.21	0.40
3:KB:406:HIS:CE1	2:KC:261:PRO:O	2.75	0.40
2:KC:121:ARG:HA	2:KC:121:ARG:NE	2.35	0.40
2:KC:210:TYR:CE1	2:KC:227:LEU:HD11	2.49	0.40
2:KC:219:ILE:HG23	2:KC:222:PRO:HD3	2.03	0.40
4:KC:501:GTP:O1G	3:KD:254:LYS:NZ	2.46	0.40
3:KD:176:LYS:HB2	3:KD:207:GLU:OE1	2.21	0.40
3:KD:274:PRO:HA	3:KD:294:GLN:NE2	2.36	0.40
3:KD:407:TRP:NE1	2:KE:257:THR:HA	2.36	0.40
2:KE:121:ARG:HA	2:KE:121:ARG:NE	2.35	0.40
2:KE:205:ASP:O	2:KE:209:ILE:HG22	2.22	0.40
3:KF:176:LYS:HB2	3:KF:207:GLU:OE1	2.21	0.40
2:LA:326:LYS:HB2	2:LA:326:LYS:HE3	1.87	0.40
3:LB:11:GLN:HB3	3:LB:74:THR:HG21	2.03	0.40
3:LB:19:LYS:O	3:LB:23:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LB:103:TRP:HZ2	3:LB:193:GLN:NE2	2.20	0.40
3:LB:151:THR:HG21	3:LB:190:SER:HA	2.03	0.40
3:LD:103:TRP:HZ2	3:LD:193:GLN:NE2	2.20	0.40
3:LD:320:ARG:HG3	3:LD:356:CYS:HB3	2.03	0.40
2:LE:8:HIS:HB2	2:LE:67:PHE:HD1	1.87	0.40
3:LF:103:TRP:HZ2	3:LF:193:GLN:NE2	2.20	0.40
3:MB:32:PRO:HG3	3:MB:83:PHE:CE1	2.56	0.40
3:MD:32:PRO:HG3	3:MD:83:PHE:CE1	2.56	0.40
3:MF:347:ILE:HG23	3:MF:350:ASN:HD22	1.86	0.40
2:NA:326:LYS:HB2	2:NA:326:LYS:HE3	1.87	0.40
3:NB:209:LEU:HD13	3:NB:227:LEU:HB3	2.02	0.40
3:ND:8:GLN:HB3	3:ND:14:ASN:HA	2.03	0.40
2:NE:219:ILE:HG23	2:NE:222:PRO:HD3	2.03	0.40
3:NF:260:VAL:HG21	3:NF:266:HIS:HB3	2.03	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	1A	118/393 (30%)	113 (96%)	5 (4%)	0	100	100
1	1B	118/393 (30%)	113 (96%)	5 (4%)	0	100	100
1	1C	118/393 (30%)	113 (96%)	5 (4%)	0	100	100
1	1D	118/393 (30%)	113 (96%)	5 (4%)	0	100	100
1	1E	118/393 (30%)	113 (96%)	5 (4%)	0	100	100
2	AA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	AC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	AE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	BA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	BC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	BE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	CA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	CC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	CE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	DA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	DC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	DE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	EA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	EC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	EE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	FA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	FC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	FE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	GA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	GC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	GE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	HA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	HC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	HE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	IA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	IC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	IE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	JA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	JC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	JE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	KA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	KC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	KE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	LA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	LC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	LE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	MA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	MC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	ME	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	NA	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	NC	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
2	NE	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
3	AB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	AD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	AF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	BB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	BD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	BF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	CB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	CD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	CF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	DB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	DD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	DF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	EB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	ED	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	EF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	FB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	FD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	FF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	GB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	GD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	GF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	HB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	HD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	HF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	IB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	ID	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	IF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	JB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	JD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	JF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	KB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	KD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	KF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	LB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	LD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	LF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	MB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	MD	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	MF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	NB	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	ND	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
3	NF	424/445 (95%)	409 (96%)	15 (4%)	0	100	100
All	All	36290/39597 (92%)	35047 (97%)	1243 (3%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1A	111/343 (32%)	111 (100%)	0	100	100
1	1B	111/343 (32%)	111 (100%)	0	100	100
1	1C	111/343 (32%)	111 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1D	111/343 (32%)	111 (100%)	0	100	100
1	1E	111/343 (32%)	111 (100%)	0	100	100
2	AA	364/379 (96%)	364 (100%)	0	100	100
2	AC	364/379 (96%)	364 (100%)	0	100	100
2	AE	364/379 (96%)	364 (100%)	0	100	100
2	BA	364/379 (96%)	364 (100%)	0	100	100
2	BC	364/379 (96%)	364 (100%)	0	100	100
2	BE	364/379 (96%)	364 (100%)	0	100	100
2	CA	364/379 (96%)	364 (100%)	0	100	100
2	CC	364/379 (96%)	364 (100%)	0	100	100
2	CE	364/379 (96%)	364 (100%)	0	100	100
2	DA	364/379 (96%)	364 (100%)	0	100	100
2	DC	364/379 (96%)	364 (100%)	0	100	100
2	DE	364/379 (96%)	364 (100%)	0	100	100
2	EA	364/379 (96%)	364 (100%)	0	100	100
2	EC	364/379 (96%)	364 (100%)	0	100	100
2	EE	364/379 (96%)	364 (100%)	0	100	100
2	FA	364/379 (96%)	364 (100%)	0	100	100
2	FC	364/379 (96%)	364 (100%)	0	100	100
2	FE	364/379 (96%)	364 (100%)	0	100	100
2	GA	364/379 (96%)	364 (100%)	0	100	100
2	GC	364/379 (96%)	364 (100%)	0	100	100
2	GE	364/379 (96%)	364 (100%)	0	100	100
2	HA	364/379 (96%)	364 (100%)	0	100	100
2	HC	364/379 (96%)	364 (100%)	0	100	100
2	HE	364/379 (96%)	364 (100%)	0	100	100
2	IA	364/379 (96%)	364 (100%)	0	100	100
2	IC	364/379 (96%)	364 (100%)	0	100	100
2	IE	364/379 (96%)	364 (100%)	0	100	100
2	JA	364/379 (96%)	364 (100%)	0	100	100
2	JC	364/379 (96%)	364 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	JE	364/379 (96%)	364 (100%)	0	100	100
2	KA	364/379 (96%)	364 (100%)	0	100	100
2	KC	364/379 (96%)	364 (100%)	0	100	100
2	KE	364/379 (96%)	364 (100%)	0	100	100
2	LA	364/379 (96%)	364 (100%)	0	100	100
2	LC	364/379 (96%)	364 (100%)	0	100	100
2	LE	364/379 (96%)	364 (100%)	0	100	100
2	MA	364/379 (96%)	364 (100%)	0	100	100
2	MC	364/379 (96%)	364 (100%)	0	100	100
2	ME	364/379 (96%)	364 (100%)	0	100	100
2	NA	364/379 (96%)	364 (100%)	0	100	100
2	NC	364/379 (96%)	364 (100%)	0	100	100
2	NE	364/379 (96%)	364 (100%)	0	100	100
3	AB	368/383 (96%)	368 (100%)	0	100	100
3	AD	368/383 (96%)	368 (100%)	0	100	100
3	AF	368/383 (96%)	368 (100%)	0	100	100
3	BB	368/383 (96%)	368 (100%)	0	100	100
3	BD	368/383 (96%)	368 (100%)	0	100	100
3	BF	368/383 (96%)	368 (100%)	0	100	100
3	CB	368/383 (96%)	368 (100%)	0	100	100
3	CD	368/383 (96%)	368 (100%)	0	100	100
3	CF	368/383 (96%)	368 (100%)	0	100	100
3	DB	368/383 (96%)	368 (100%)	0	100	100
3	DD	368/383 (96%)	368 (100%)	0	100	100
3	DF	368/383 (96%)	368 (100%)	0	100	100
3	EB	368/383 (96%)	368 (100%)	0	100	100
3	ED	368/383 (96%)	368 (100%)	0	100	100
3	EF	368/383 (96%)	368 (100%)	0	100	100
3	FB	368/383 (96%)	368 (100%)	0	100	100
3	FD	368/383 (96%)	368 (100%)	0	100	100
3	FF	368/383 (96%)	368 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	GB	368/383 (96%)	368 (100%)	0	100	100
3	GD	368/383 (96%)	368 (100%)	0	100	100
3	GF	368/383 (96%)	368 (100%)	0	100	100
3	HB	368/383 (96%)	368 (100%)	0	100	100
3	HD	368/383 (96%)	368 (100%)	0	100	100
3	HF	368/383 (96%)	368 (100%)	0	100	100
3	IB	368/383 (96%)	368 (100%)	0	100	100
3	ID	368/383 (96%)	368 (100%)	0	100	100
3	IF	368/383 (96%)	368 (100%)	0	100	100
3	JB	368/383 (96%)	368 (100%)	0	100	100
3	JD	368/383 (96%)	368 (100%)	0	100	100
3	JF	368/383 (96%)	368 (100%)	0	100	100
3	KB	368/383 (96%)	368 (100%)	0	100	100
3	KD	368/383 (96%)	368 (100%)	0	100	100
3	KF	368/383 (96%)	368 (100%)	0	100	100
3	LB	368/383 (96%)	368 (100%)	0	100	100
3	LD	368/383 (96%)	368 (100%)	0	100	100
3	LF	368/383 (96%)	368 (100%)	0	100	100
3	MB	368/383 (96%)	368 (100%)	0	100	100
3	MD	368/383 (96%)	368 (100%)	0	100	100
3	MF	368/383 (96%)	368 (100%)	0	100	100
3	NB	368/383 (96%)	368 (100%)	0	100	100
3	ND	368/383 (96%)	368 (100%)	0	100	100
3	NF	368/383 (96%)	368 (100%)	0	100	100
All	All	31299/33719 (93%)	31299 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (375) such sidechains are listed below:

Mol	Chain	Res	Type
1	1A	61	HIS
1	1A	70	GLN

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Mol	Chain	Res	Type
1	1B	70	GLN
1	1B	78	HIS
1	1C	35	ASN
1	1C	61	HIS
1	1C	70	GLN
1	1D	70	GLN
1	1E	35	ASN
1	1E	70	GLN
2	AA	192	HIS
2	AA	258	ASN
2	AA	309	HIS
2	AA	342	GLN
3	AB	91	ASN
3	AB	107	HIS
3	AB	282	GLN
3	AB	300	ASN
3	AB	331	GLN
3	AB	394	GLN
2	AC	192	HIS
2	AC	258	ASN
2	AC	309	HIS
2	AC	342	GLN
3	AD	91	ASN
3	AD	107	HIS
3	AD	282	GLN
3	AD	300	ASN
3	AD	331	GLN
3	AD	394	GLN
2	AE	192	HIS
2	AE	258	ASN
2	AE	309	HIS
2	AE	342	GLN
3	AF	91	ASN
3	AF	107	HIS
3	AF	282	GLN
3	AF	300	ASN
3	AF	331	GLN
2	BA	192	HIS
2	BA	258	ASN
2	BA	342	GLN
3	BB	91	ASN
3	BB	107	HIS

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Mol	Chain	Res	Type
3	BB	282	GLN
3	BB	300	ASN
3	BB	331	GLN
3	BB	394	GLN
2	BC	192	HIS
2	BC	258	ASN
2	BC	342	GLN
3	BD	91	ASN
3	BD	107	HIS
3	BD	300	ASN
3	BD	331	GLN
3	BD	394	GLN
2	BE	192	HIS
2	BE	258	ASN
2	BE	342	GLN
3	BF	91	ASN
3	BF	107	HIS
3	BF	282	GLN
3	BF	300	ASN
3	BF	331	GLN
2	CA	192	HIS
2	CA	258	ASN
2	CA	342	GLN
3	CB	91	ASN
3	CB	107	HIS
3	CB	300	ASN
3	CB	331	GLN
3	CB	394	GLN
2	CC	192	HIS
2	CC	258	ASN
2	CC	342	GLN
3	CD	91	ASN
3	CD	107	HIS
3	CD	282	GLN
3	CD	300	ASN
3	CD	331	GLN
3	CD	394	GLN
2	CE	192	HIS
2	CE	258	ASN
2	CE	342	GLN
3	CF	91	ASN
3	CF	107	HIS

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Mol	Chain	Res	Type
3	CF	300	ASN
3	CF	331	GLN
2	DA	192	HIS
2	DA	258	ASN
2	DA	342	GLN
3	DB	91	ASN
3	DB	107	HIS
3	DB	282	GLN
3	DB	300	ASN
3	DB	331	GLN
3	DB	394	GLN
2	DC	192	HIS
2	DC	258	ASN
2	DC	342	GLN
3	DD	91	ASN
3	DD	107	HIS
3	DD	282	GLN
3	DD	300	ASN
3	DD	331	GLN
3	DD	394	GLN
2	DE	192	HIS
2	DE	258	ASN
2	DE	342	GLN
3	DF	91	ASN
3	DF	107	HIS
3	DF	300	ASN
3	DF	331	GLN
3	DF	350	ASN
2	EA	192	HIS
2	EA	258	ASN
2	EA	342	GLN
3	EB	91	ASN
3	EB	107	HIS
3	EB	282	GLN
3	EB	300	ASN
3	EB	331	GLN
3	EB	394	GLN
2	EC	192	HIS
2	EC	258	ASN
2	EC	342	GLN
3	ED	91	ASN
3	ED	107	HIS

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Mol	Chain	Res	Type
3	ED	282	GLN
3	ED	300	ASN
3	ED	331	GLN
3	ED	394	GLN
2	EE	192	HIS
2	EE	258	ASN
2	EE	342	GLN
3	EF	91	ASN
3	EF	107	HIS
3	EF	282	GLN
3	EF	300	ASN
3	EF	331	GLN
2	FA	192	HIS
2	FA	258	ASN
2	FA	342	GLN
3	FB	91	ASN
3	FB	107	HIS
3	FB	282	GLN
3	FB	300	ASN
3	FB	331	GLN
2	FC	192	HIS
2	FC	258	ASN
2	FC	342	GLN
3	FD	91	ASN
3	FD	107	HIS
3	FD	282	GLN
3	FD	300	ASN
3	FD	331	GLN
2	FE	192	HIS
2	FE	258	ASN
2	FE	342	GLN
3	FF	91	ASN
3	FF	107	HIS
3	FF	282	GLN
3	FF	300	ASN
3	FF	331	GLN
2	GA	192	HIS
2	GA	258	ASN
2	GA	342	GLN
3	GB	91	ASN
3	GB	107	HIS
3	GB	282	GLN

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Mol	Chain	Res	Type
3	GB	300	ASN
3	GB	331	GLN
3	GB	394	GLN
2	GC	192	HIS
2	GC	258	ASN
2	GC	342	GLN
3	GD	91	ASN
3	GD	107	HIS
3	GD	282	GLN
3	GD	300	ASN
3	GD	331	GLN
2	GE	192	HIS
2	GE	258	ASN
2	GE	342	GLN
3	GF	91	ASN
3	GF	107	HIS
3	GF	282	GLN
3	GF	300	ASN
3	GF	331	GLN
2	HA	192	HIS
2	HA	258	ASN
2	HA	342	GLN
3	HB	91	ASN
3	HB	107	HIS
3	HB	282	GLN
3	HB	300	ASN
3	HB	331	GLN
2	HC	192	HIS
2	HC	342	GLN
3	HD	91	ASN
3	HD	107	HIS
3	HD	282	GLN
3	HD	300	ASN
3	HD	331	GLN
2	HE	192	HIS
2	HE	258	ASN
2	HE	342	GLN
3	HF	91	ASN
3	HF	107	HIS
3	HF	300	ASN
3	HF	331	GLN
3	HF	350	ASN

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Mol	Chain	Res	Type
2	IA	192	HIS
2	IA	258	ASN
2	IA	342	GLN
3	IB	91	ASN
3	IB	107	HIS
3	IB	282	GLN
3	IB	300	ASN
3	IB	331	GLN
3	IB	394	GLN
2	IC	192	HIS
2	IC	258	ASN
2	IC	329	ASN
2	IC	342	GLN
3	ID	91	ASN
3	ID	107	HIS
3	ID	300	ASN
3	ID	331	GLN
3	ID	394	GLN
2	IE	192	HIS
2	IE	258	ASN
2	IE	329	ASN
2	IE	342	GLN
3	IF	91	ASN
3	IF	107	HIS
3	IF	282	GLN
3	IF	300	ASN
3	IF	331	GLN
2	JA	192	HIS
2	JA	197	HIS
2	JA	258	ASN
2	JA	342	GLN
3	JB	91	ASN
3	JB	107	HIS
3	JB	282	GLN
3	JB	300	ASN
3	JB	331	GLN
2	JC	192	HIS
2	JC	197	HIS
2	JC	342	GLN
3	JD	91	ASN
3	JD	107	HIS
3	JD	282	GLN

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Mol	Chain	Res	Type
3	JD	300	ASN
3	JD	331	GLN
3	JD	394	GLN
2	JE	192	HIS
2	JE	197	HIS
2	JE	258	ASN
2	JE	329	ASN
2	JE	342	GLN
2	JE	406	HIS
3	JF	91	ASN
3	JF	107	HIS
3	JF	282	GLN
3	JF	300	ASN
3	JF	331	GLN
2	KA	192	HIS
2	KA	258	ASN
2	KA	342	GLN
3	KB	91	ASN
3	KB	107	HIS
3	KB	282	GLN
3	KB	300	ASN
3	KB	331	GLN
3	KB	394	GLN
2	KC	192	HIS
2	KC	197	HIS
2	KC	258	ASN
2	KC	329	ASN
2	KC	342	GLN
3	KD	91	ASN
3	KD	107	HIS
3	KD	282	GLN
3	KD	300	ASN
3	KD	331	GLN
3	KD	394	GLN
2	KE	192	HIS
2	KE	197	HIS
2	KE	258	ASN
2	KE	342	GLN
3	KF	91	ASN
3	KF	107	HIS
3	KF	300	ASN
3	KF	331	GLN

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Mol	Chain	Res	Type
2	LA	192	HIS
2	LA	258	ASN
2	LA	342	GLN
3	LB	91	ASN
3	LB	107	HIS
3	LB	300	ASN
3	LB	331	GLN
3	LB	394	GLN
2	LC	192	HIS
2	LC	258	ASN
2	LC	342	GLN
3	LD	91	ASN
3	LD	107	HIS
3	LD	300	ASN
3	LD	331	GLN
3	LD	394	GLN
2	LE	192	HIS
2	LE	258	ASN
2	LE	342	GLN
3	LF	91	ASN
3	LF	107	HIS
3	LF	282	GLN
3	LF	300	ASN
3	LF	331	GLN
2	MA	192	HIS
2	MA	258	ASN
2	MA	342	GLN
3	MB	91	ASN
3	MB	107	HIS
3	MB	282	GLN
3	MB	300	ASN
3	MB	331	GLN
3	MB	394	GLN
2	MC	192	HIS
2	MC	258	ASN
2	MC	342	GLN
3	MD	91	ASN
3	MD	107	HIS
3	MD	300	ASN
3	MD	331	GLN
3	MD	394	GLN
2	ME	11	GLN

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Mol	Chain	Res	Type
2	ME	192	HIS
2	ME	258	ASN
2	ME	329	ASN
2	ME	342	GLN
3	MF	91	ASN
3	MF	107	HIS
3	MF	282	GLN
3	MF	300	ASN
3	MF	331	GLN
2	NA	11	GLN
2	NA	192	HIS
2	NA	258	ASN
2	NA	342	GLN
3	NB	91	ASN
3	NB	107	HIS
3	NB	282	GLN
3	NB	300	ASN
3	NB	331	GLN
3	NB	394	GLN
2	NC	192	HIS
2	NC	258	ASN
2	NC	342	GLN
3	ND	91	ASN
3	ND	107	HIS
3	ND	282	GLN
3	ND	300	ASN
3	ND	331	GLN
3	ND	394	GLN
2	NE	192	HIS
2	NE	258	ASN
2	NE	329	ASN
2	NE	342	GLN
3	NF	91	ASN
3	NF	107	HIS
3	NF	282	GLN
3	NF	300	ASN
3	NF	331	GLN

### 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](#)

Of 168 ligands modelled in this entry, 42 are monoatomic - leaving 126 for Mogul analysis.

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$
4	GTP	KE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	JD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	LE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	FE	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	FD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	CD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	KB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	AF	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	BB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	FF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	IB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
6	GDP	IF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	FB	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	GF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	CF	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	GB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
4	GTP	JE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	DF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
7	TA1	JB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	NF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	HD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
4	GTP	ME	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	AB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	EB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	LB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	GC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	NE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.26	4 (11%)
6	GDP	KF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	EE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	NC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	ND	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	AB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	HA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	JC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	KA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	JD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	MD	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	GB	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	BD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
7	TA1	AF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	HE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	EC	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	JF	502	-	68,68,68	0.67	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	JF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	CA	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	MA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	CC	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	MD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	IB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	BF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
7	TA1	LD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
4	GTP	AC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	DC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
6	GDP	LF	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	GE	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.26	4 (11%)
4	GTP	NA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	AA	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	IC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	DB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
6	GDP	DD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	CD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
6	GDP	CB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	KB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
4	GTP	HC	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	HF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
7	TA1	GD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
7	TA1	ND	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
7	TA1	MF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
6	GDP	AD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.05	2 (6%)
6	GDP	BF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	GD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	KD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	EB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	LC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	FF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
6	GDP	HB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	IE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	NF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
7	TA1	IF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
7	TA1	KD	502	-	68,68,68	0.67	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	EA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	CE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	MB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
6	GDP	BD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	JB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	LF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	AE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	DE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
7	TA1	FB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	IA	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	ID	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
7	TA1	DD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
7	TA1	CB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
6	GDP	DB	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	KF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	FA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	CF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
7	TA1	DF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	LA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	MB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	ED	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	NB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	JA	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	HD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	MF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	EF	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	ID	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	BE	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.26	4 (11%)
4	GTP	DA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
4	GTP	FC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	LB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
4	GTP	GA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	LD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	BA	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	GF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
6	GDP	EF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
7	TA1	ED	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
7	TA1	AD	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	19 (18%)
6	GDP	NB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	MC	501	5	29,34,34	1.27	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	FD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
4	GTP	KC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
7	TA1	BB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
7	TA1	HB	502	-	68,68,68	0.68	1 (1%)	105,105,105	1.73	18 (17%)
4	GTP	BC	501	5	29,34,34	1.28	4 (13%)	35,54,54	1.25	4 (11%)
6	GDP	HF	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)

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
4	GTP	KE	501	5	-	6/18/38/38	0/3/3/3
7	TA1	JD	502	-	-	7/41/127/127	0/7/7/7
4	GTP	LE	501	5	-	6/18/38/38	0/3/3/3
4	GTP	FE	501	5	-	6/18/38/38	0/3/3/3
7	TA1	FD	502	-	-	7/41/127/127	0/7/7/7
6	GDP	CD	501	-	-	4/12/32/32	0/3/3/3
7	TA1	KB	502	-	-	7/41/127/127	0/7/7/7
6	GDP	AF	501	-	-	4/12/32/32	0/3/3/3
6	GDP	BB	501	-	-	4/12/32/32	0/3/3/3
6	GDP	FF	501	-	-	4/12/32/32	0/3/3/3
7	TA1	IB	502	-	-	7/41/127/127	0/7/7/7
6	GDP	IF	501	-	-	4/12/32/32	0/3/3/3
6	GDP	FB	501	-	-	4/12/32/32	0/3/3/3
7	TA1	GF	502	-	-	7/41/127/127	0/7/7/7
6	GDP	CF	501	-	-	4/12/32/32	0/3/3/3
7	TA1	GB	502	-	-	7/41/127/127	0/7/7/7
4	GTP	JE	501	5	-	6/18/38/38	0/3/3/3
6	GDP	DF	501	-	-	4/12/32/32	0/3/3/3
7	TA1	JB	502	-	-	7/41/127/127	0/7/7/7
6	GDP	NF	501	-	-	4/12/32/32	0/3/3/3
7	TA1	HD	502	-	-	7/41/127/127	0/7/7/7
4	GTP	ME	501	5	-	6/18/38/38	0/3/3/3
6	GDP	AB	501	-	-	4/12/32/32	0/3/3/3
7	TA1	EB	502	-	-	7/41/127/127	0/7/7/7
6	GDP	LB	501	-	-	4/12/32/32	0/3/3/3
4	GTP	GC	501	5	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GTP	NE	501	5	-	6/18/38/38	0/3/3/3
6	GDP	KF	501	-	-	4/12/32/32	0/3/3/3
4	GTP	EE	501	5	-	6/18/38/38	0/3/3/3
4	GTP	NC	501	5	-	6/18/38/38	0/3/3/3
6	GDP	ND	501	-	-	4/12/32/32	0/3/3/3
7	TA1	AB	502	-	-	7/41/127/127	0/7/7/7
4	GTP	HA	501	5	-	6/18/38/38	0/3/3/3
4	GTP	JC	501	5	-	6/18/38/38	0/3/3/3
4	GTP	KA	501	5	-	6/18/38/38	0/3/3/3
6	GDP	JD	501	-	-	4/12/32/32	0/3/3/3
6	GDP	MD	501	-	-	4/12/32/32	0/3/3/3
6	GDP	GB	501	-	-	4/12/32/32	0/3/3/3
7	TA1	BD	502	-	-	7/41/127/127	0/7/7/7
7	TA1	AF	502	-	-	7/41/127/127	0/7/7/7
4	GTP	HE	501	5	-	6/18/38/38	0/3/3/3
4	GTP	EC	501	5	-	6/18/38/38	0/3/3/3
7	TA1	JF	502	-	-	7/41/127/127	0/7/7/7
6	GDP	JF	501	-	-	4/12/32/32	0/3/3/3
4	GTP	CA	501	5	-	6/18/38/38	0/3/3/3
4	GTP	MA	501	5	-	6/18/38/38	0/3/3/3
4	GTP	CC	501	5	-	6/18/38/38	0/3/3/3
7	TA1	MD	502	-	-	7/41/127/127	0/7/7/7
6	GDP	IB	501	-	-	4/12/32/32	0/3/3/3
7	TA1	BF	502	-	-	7/41/127/127	0/7/7/7
7	TA1	LD	502	-	-	7/41/127/127	0/7/7/7
4	GTP	AC	501	5	-	6/18/38/38	0/3/3/3
4	GTP	DC	501	5	-	6/18/38/38	0/3/3/3
6	GDP	LF	501	-	-	4/12/32/32	0/3/3/3
4	GTP	GE	501	5	-	6/18/38/38	0/3/3/3
4	GTP	NA	501	5	-	6/18/38/38	0/3/3/3
4	GTP	AA	501	5	-	6/18/38/38	0/3/3/3
4	GTP	IC	501	5	-	6/18/38/38	0/3/3/3
7	TA1	DB	502	-	-	7/41/127/127	0/7/7/7
6	GDP	DD	501	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	TA1	CD	502	-	-	7/41/127/127	0/7/7/7
6	GDP	CB	501	-	-	4/12/32/32	0/3/3/3
6	GDP	KB	501	-	-	4/12/32/32	0/3/3/3
4	GTP	HC	501	5	-	6/18/38/38	0/3/3/3
7	TA1	HF	502	-	-	7/41/127/127	0/7/7/7
7	TA1	GD	502	-	-	7/41/127/127	0/7/7/7
7	TA1	ND	502	-	-	7/41/127/127	0/7/7/7
7	TA1	MF	502	-	-	7/41/127/127	0/7/7/7
6	GDP	AD	501	-	-	4/12/32/32	0/3/3/3
6	GDP	BF	501	-	-	4/12/32/32	0/3/3/3
6	GDP	GD	501	-	-	4/12/32/32	0/3/3/3
6	GDP	KD	501	-	-	4/12/32/32	0/3/3/3
6	GDP	EB	501	-	-	4/12/32/32	0/3/3/3
4	GTP	LC	501	5	-	6/18/38/38	0/3/3/3
7	TA1	FF	502	-	-	7/41/127/127	0/7/7/7
6	GDP	HB	501	-	-	4/12/32/32	0/3/3/3
4	GTP	IE	501	5	-	6/18/38/38	0/3/3/3
7	TA1	NF	502	-	-	7/41/127/127	0/7/7/7
7	TA1	IF	502	-	-	7/41/127/127	0/7/7/7
7	TA1	KD	502	-	-	7/41/127/127	0/7/7/7
4	GTP	EA	501	5	-	6/18/38/38	0/3/3/3
4	GTP	CE	501	5	-	6/18/38/38	0/3/3/3
7	TA1	MB	502	-	-	7/41/127/127	0/7/7/7
6	GDP	BD	501	-	-	4/12/32/32	0/3/3/3
6	GDP	JB	501	-	-	4/12/32/32	0/3/3/3
7	TA1	LF	502	-	-	7/41/127/127	0/7/7/7
4	GTP	AE	501	5	-	6/18/38/38	0/3/3/3
4	GTP	DE	501	5	-	6/18/38/38	0/3/3/3
7	TA1	FB	502	-	-	7/41/127/127	0/7/7/7
4	GTP	IA	501	5	-	6/18/38/38	0/3/3/3
7	TA1	ID	502	-	-	7/41/127/127	0/7/7/7
7	TA1	DD	502	-	-	7/41/127/127	0/7/7/7
7	TA1	CB	502	-	-	7/41/127/127	0/7/7/7
6	GDP	DB	501	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	TA1	KF	502	-	-	7/41/127/127	0/7/7/7
4	GTP	FA	501	5	-	6/18/38/38	0/3/3/3
7	TA1	CF	502	-	-	7/41/127/127	0/7/7/7
7	TA1	DF	502	-	-	7/41/127/127	0/7/7/7
4	GTP	LA	501	5	-	6/18/38/38	0/3/3/3
6	GDP	MB	501	-	-	4/12/32/32	0/3/3/3
6	GDP	ED	501	-	-	4/12/32/32	0/3/3/3
7	TA1	NB	502	-	-	7/41/127/127	0/7/7/7
4	GTP	JA	501	5	-	6/18/38/38	0/3/3/3
6	GDP	HD	501	-	-	4/12/32/32	0/3/3/3
6	GDP	MF	501	-	-	4/12/32/32	0/3/3/3
7	TA1	EF	502	-	-	7/41/127/127	0/7/7/7
6	GDP	ID	501	-	-	4/12/32/32	0/3/3/3
4	GTP	BE	501	5	-	6/18/38/38	0/3/3/3
4	GTP	DA	501	5	-	6/18/38/38	0/3/3/3
4	GTP	FC	501	5	-	6/18/38/38	0/3/3/3
7	TA1	LB	502	-	-	7/41/127/127	0/7/7/7
4	GTP	GA	501	5	-	6/18/38/38	0/3/3/3
6	GDP	LD	501	-	-	4/12/32/32	0/3/3/3
4	GTP	BA	501	5	-	6/18/38/38	0/3/3/3
6	GDP	GF	501	-	-	4/12/32/32	0/3/3/3
6	GDP	EF	501	-	-	4/12/32/32	0/3/3/3
7	TA1	ED	502	-	-	7/41/127/127	0/7/7/7
7	TA1	AD	502	-	-	7/41/127/127	0/7/7/7
6	GDP	NB	501	-	-	4/12/32/32	0/3/3/3
4	GTP	MC	501	5	-	6/18/38/38	0/3/3/3
6	GDP	FD	501	-	-	4/12/32/32	0/3/3/3
4	GTP	KC	501	5	-	6/18/38/38	0/3/3/3
7	TA1	BB	502	-	-	7/41/127/127	0/7/7/7
7	TA1	HB	502	-	-	7/41/127/127	0/7/7/7
4	GTP	BC	501	5	-	6/18/38/38	0/3/3/3
6	GDP	HF	501	-	-	4/12/32/32	0/3/3/3

All (252) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AE	501	GTP	C5-C6	-4.14	1.39	1.47
4	BE	501	GTP	C5-C6	-4.14	1.39	1.47
4	LA	501	GTP	C5-C6	-4.14	1.39	1.47
4	JA	501	GTP	C5-C6	-4.13	1.39	1.47
4	DC	501	GTP	C5-C6	-4.12	1.39	1.47
4	HE	501	GTP	C5-C6	-4.12	1.39	1.47
4	KA	501	GTP	C5-C6	-4.12	1.39	1.47
4	EE	501	GTP	C5-C6	-4.12	1.39	1.47
4	IC	501	GTP	C5-C6	-4.12	1.39	1.47
4	JC	501	GTP	C5-C6	-4.12	1.39	1.47
4	CE	501	GTP	C5-C6	-4.11	1.39	1.47
4	NE	501	GTP	C5-C6	-4.11	1.39	1.47
4	GA	501	GTP	C5-C6	-4.10	1.39	1.47
4	GC	501	GTP	C5-C6	-4.10	1.39	1.47
4	BA	501	GTP	C5-C6	-4.10	1.39	1.47
4	BC	501	GTP	C5-C6	-4.10	1.39	1.47
4	KC	501	GTP	C5-C6	-4.10	1.39	1.47
4	DE	501	GTP	C5-C6	-4.10	1.39	1.47
4	DA	501	GTP	C5-C6	-4.10	1.39	1.47
4	IE	501	GTP	C5-C6	-4.10	1.39	1.47
4	KE	501	GTP	C5-C6	-4.10	1.39	1.47
4	GE	501	GTP	C5-C6	-4.10	1.39	1.47
4	NA	501	GTP	C5-C6	-4.10	1.39	1.47
4	FA	501	GTP	C5-C6	-4.10	1.39	1.47
4	JE	501	GTP	C5-C6	-4.10	1.39	1.47
4	FC	501	GTP	C5-C6	-4.09	1.39	1.47
4	HC	501	GTP	C5-C6	-4.09	1.39	1.47
4	ME	501	GTP	C5-C6	-4.09	1.39	1.47
4	NC	501	GTP	C5-C6	-4.09	1.39	1.47
4	EC	501	GTP	C5-C6	-4.09	1.39	1.47
4	LE	501	GTP	C5-C6	-4.09	1.39	1.47
4	HA	501	GTP	C5-C6	-4.09	1.39	1.47
4	MA	501	GTP	C5-C6	-4.09	1.39	1.47
4	MC	501	GTP	C5-C6	-4.09	1.39	1.47
4	AC	501	GTP	C5-C6	-4.09	1.39	1.47
4	FE	501	GTP	C5-C6	-4.08	1.39	1.47
4	EA	501	GTP	C5-C6	-4.08	1.39	1.47
4	LC	501	GTP	C5-C6	-4.08	1.39	1.47
4	CC	501	GTP	C5-C6	-4.07	1.39	1.47
4	AA	501	GTP	C5-C6	-4.07	1.39	1.47
4	CA	501	GTP	C5-C6	-4.06	1.39	1.47
4	IA	501	GTP	C5-C6	-4.06	1.39	1.47
6	KD	501	GDP	C6-N1	-2.42	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	DF	501	GDP	C6-N1	-2.42	1.34	1.37
6	MF	501	GDP	C6-N1	-2.42	1.34	1.37
6	CD	501	GDP	C6-N1	-2.42	1.34	1.37
6	KB	501	GDP	C6-N1	-2.42	1.34	1.37
6	AB	501	GDP	C6-N1	-2.41	1.34	1.37
6	GB	501	GDP	C6-N1	-2.41	1.34	1.37
6	DD	501	GDP	C6-N1	-2.41	1.34	1.37
6	MB	501	GDP	C6-N1	-2.41	1.34	1.37
6	FF	501	GDP	C6-N1	-2.41	1.34	1.37
6	IF	501	GDP	C6-N1	-2.41	1.34	1.37
6	HD	501	GDP	C6-N1	-2.40	1.34	1.37
6	IB	501	GDP	C6-N1	-2.40	1.34	1.37
6	NB	501	GDP	C6-N1	-2.40	1.34	1.37
6	EF	501	GDP	C6-N1	-2.40	1.34	1.37
6	LF	501	GDP	C6-N1	-2.40	1.34	1.37
6	BF	501	GDP	C6-N1	-2.40	1.34	1.37
6	ED	501	GDP	C6-N1	-2.40	1.34	1.37
6	KF	501	GDP	C6-N1	-2.39	1.34	1.37
6	ND	501	GDP	C6-N1	-2.39	1.34	1.37
4	LE	501	GTP	PB-O3A	2.39	1.62	1.59
6	JF	501	GDP	C6-N1	-2.39	1.34	1.37
6	CF	501	GDP	C6-N1	-2.38	1.34	1.37
6	EB	501	GDP	C6-N1	-2.38	1.34	1.37
6	DB	501	GDP	C6-N1	-2.38	1.34	1.37
6	JD	501	GDP	C6-N1	-2.38	1.34	1.37
4	KC	501	GTP	PB-O3A	2.38	1.62	1.59
4	NC	501	GTP	PB-O3A	2.38	1.62	1.59
4	CE	501	GTP	PB-O3A	2.38	1.62	1.59
6	ID	501	GDP	C6-N1	-2.38	1.34	1.37
6	HB	501	GDP	C6-N1	-2.38	1.34	1.37
6	CB	501	GDP	C6-N1	-2.37	1.34	1.37
6	GD	501	GDP	C6-N1	-2.37	1.34	1.37
6	LD	501	GDP	C6-N1	-2.37	1.34	1.37
4	AC	501	GTP	PB-O3A	2.37	1.62	1.59
6	LB	501	GDP	C6-N1	-2.37	1.34	1.37
6	HF	501	GDP	C6-N1	-2.36	1.34	1.37
6	JB	501	GDP	C6-N1	-2.36	1.34	1.37
4	EA	501	GTP	PB-O3A	2.36	1.62	1.59
6	BB	501	GDP	C6-N1	-2.36	1.34	1.37
4	KE	501	GTP	PB-O3A	2.36	1.62	1.59
6	GF	501	GDP	C6-N1	-2.36	1.34	1.37
4	DA	501	GTP	PB-O3A	2.36	1.62	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	AF	501	GDP	C6-N1	-2.36	1.34	1.37
6	BD	501	GDP	C6-N1	-2.36	1.34	1.37
4	NE	501	GTP	PB-O3A	2.36	1.62	1.59
4	FC	501	GTP	PB-O3A	2.36	1.62	1.59
6	FB	501	GDP	C6-N1	-2.35	1.34	1.37
6	FD	501	GDP	C6-N1	-2.35	1.34	1.37
7	MD	502	TA1	C18-C10	2.35	1.62	1.57
6	MD	501	GDP	C6-N1	-2.35	1.34	1.37
4	IE	501	GTP	PB-O3A	2.35	1.62	1.59
4	JE	501	GTP	PB-O3A	2.34	1.62	1.59
4	GE	501	GTP	PB-O3A	2.34	1.62	1.59
7	FB	502	TA1	C18-C10	2.34	1.62	1.57
7	GD	502	TA1	C18-C10	2.34	1.62	1.57
4	BE	501	GTP	PB-O3A	2.34	1.62	1.59
7	BB	502	TA1	C18-C10	2.34	1.62	1.57
4	CC	501	GTP	PB-O3A	2.34	1.62	1.59
7	ED	502	TA1	C18-C10	2.34	1.62	1.57
4	HA	501	GTP	PB-O3A	2.33	1.62	1.59
4	IC	501	GTP	PB-O3A	2.33	1.62	1.59
7	GB	502	TA1	C18-C10	2.33	1.62	1.57
4	AE	501	GTP	PB-O3A	2.33	1.62	1.59
4	HE	501	GTP	PB-O3A	2.33	1.62	1.59
7	EB	502	TA1	C18-C10	2.33	1.62	1.57
4	CA	501	GTP	PB-O3A	2.33	1.62	1.59
4	FA	501	GTP	PB-O3A	2.33	1.62	1.59
4	NA	501	GTP	PB-O3A	2.33	1.62	1.59
7	CF	502	TA1	C18-C10	2.33	1.62	1.57
7	DD	502	TA1	C18-C10	2.32	1.62	1.57
7	EF	502	TA1	C18-C10	2.32	1.62	1.57
6	NF	501	GDP	C6-N1	-2.32	1.34	1.37
4	EE	501	GTP	PB-O3A	2.32	1.62	1.59
7	DB	502	TA1	C18-C10	2.32	1.62	1.57
7	KB	502	TA1	C18-C10	2.32	1.62	1.57
4	FE	501	GTP	PB-O3A	2.32	1.62	1.59
7	LB	502	TA1	C18-C10	2.32	1.62	1.57
7	HB	502	TA1	C18-C10	2.32	1.62	1.57
7	AF	502	TA1	C18-C10	2.31	1.62	1.57
7	HD	502	TA1	C18-C10	2.31	1.62	1.57
6	AD	501	GDP	C6-N1	-2.31	1.34	1.37
7	AD	502	TA1	C18-C10	2.31	1.62	1.57
7	CB	502	TA1	C18-C10	2.31	1.62	1.57
7	MF	502	TA1	C18-C10	2.31	1.62	1.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	EC	501	GTP	PB-O3A	2.31	1.62	1.59
7	HF	502	TA1	C18-C10	2.31	1.62	1.57
4	BC	501	GTP	PB-O3A	2.31	1.62	1.59
4	BA	501	GTP	PB-O3A	2.31	1.62	1.59
4	DE	501	GTP	PB-O3A	2.31	1.62	1.59
7	GF	502	TA1	C18-C10	2.31	1.62	1.57
7	IF	502	TA1	C18-C10	2.31	1.62	1.57
4	GC	501	GTP	PB-O3A	2.31	1.62	1.59
7	BF	502	TA1	C18-C10	2.30	1.62	1.57
7	DF	502	TA1	C18-C10	2.30	1.62	1.57
7	JD	502	TA1	C18-C10	2.30	1.62	1.57
7	JB	502	TA1	C18-C10	2.30	1.62	1.57
4	MA	501	GTP	PB-O3A	2.30	1.62	1.59
7	NF	502	TA1	C18-C10	2.30	1.62	1.57
7	FF	502	TA1	C18-C10	2.30	1.62	1.57
4	DC	501	GTP	PB-O3A	2.30	1.62	1.59
4	ME	501	GTP	PB-O3A	2.30	1.62	1.59
7	ID	502	TA1	C18-C10	2.30	1.62	1.57
7	IB	502	TA1	C18-C10	2.30	1.62	1.57
7	BD	502	TA1	C18-C10	2.29	1.62	1.57
7	NB	502	TA1	C18-C10	2.29	1.62	1.57
4	JC	501	GTP	PB-O3A	2.29	1.62	1.59
7	FD	502	TA1	C18-C10	2.29	1.62	1.57
7	LF	502	TA1	C18-C10	2.29	1.62	1.57
7	ND	502	TA1	C18-C10	2.28	1.62	1.57
7	LD	502	TA1	C18-C10	2.28	1.62	1.57
7	JF	502	TA1	C18-C10	2.28	1.62	1.57
7	AB	502	TA1	C18-C10	2.28	1.62	1.57
4	AA	501	GTP	PB-O3A	2.27	1.62	1.59
7	KF	502	TA1	C18-C10	2.27	1.62	1.57
4	LC	501	GTP	PB-O3A	2.27	1.61	1.59
7	KD	502	TA1	C18-C10	2.27	1.62	1.57
7	CD	502	TA1	C18-C10	2.27	1.62	1.57
7	MB	502	TA1	C18-C10	2.26	1.62	1.57
4	KA	501	GTP	PB-O3A	2.26	1.61	1.59
4	LA	501	GTP	PB-O3A	2.26	1.61	1.59
4	HC	501	GTP	PB-O3A	2.26	1.61	1.59
4	IA	501	GTP	PB-O3A	2.26	1.61	1.59
4	JA	501	GTP	PB-O3A	2.26	1.61	1.59
4	GA	501	GTP	PB-O3A	2.26	1.61	1.59
4	MC	501	GTP	PB-O3A	2.23	1.61	1.59
4	KE	501	GTP	C2-N3	2.20	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	DA	501	GTP	C2-N3	2.20	1.38	1.33
4	FC	501	GTP	C2-N3	2.19	1.38	1.33
4	FA	501	GTP	C2-N3	2.19	1.38	1.33
4	HC	501	GTP	C2-N3	2.19	1.38	1.33
4	IA	501	GTP	C2-N3	2.18	1.38	1.33
4	JE	501	GTP	C2-N3	2.18	1.38	1.33
4	IE	501	GTP	C2-N3	2.18	1.38	1.33
4	BC	501	GTP	C2-N3	2.18	1.38	1.33
4	BA	501	GTP	C2-N3	2.18	1.38	1.33
4	KA	501	GTP	C2-N3	2.17	1.38	1.33
4	CE	501	GTP	C2-N3	2.17	1.38	1.33
4	AE	501	GTP	C2-N3	2.17	1.38	1.33
4	NE	501	GTP	C2-N3	2.17	1.38	1.33
4	MA	501	GTP	C2-N3	2.17	1.38	1.33
4	KC	501	GTP	C2-N3	2.17	1.38	1.33
4	AC	501	GTP	C2-N3	2.17	1.38	1.33
4	CC	501	GTP	C2-N3	2.17	1.38	1.33
4	HA	501	GTP	C2-N3	2.17	1.38	1.33
4	IC	501	GTP	C2-N3	2.17	1.38	1.33
4	NC	501	GTP	C2-N3	2.16	1.38	1.33
4	LC	501	GTP	C2-N3	2.16	1.38	1.33
4	GC	501	GTP	C2-N3	2.16	1.38	1.33
4	EA	501	GTP	C2-N3	2.16	1.38	1.33
4	AA	501	GTP	C2-N3	2.16	1.38	1.33
4	JA	501	GTP	C2-N3	2.16	1.38	1.33
4	FE	501	GTP	C2-N3	2.16	1.38	1.33
4	NA	501	GTP	C2-N3	2.16	1.38	1.33
4	DE	501	GTP	C2-N3	2.16	1.38	1.33
4	CA	501	GTP	C2-N3	2.16	1.38	1.33
4	DC	501	GTP	C2-N3	2.16	1.38	1.33
4	BE	501	GTP	C2-N3	2.15	1.38	1.33
4	EC	501	GTP	C2-N3	2.15	1.38	1.33
4	NA	501	GTP	PA-O3A	2.15	1.61	1.59
4	ME	501	GTP	C2-N3	2.15	1.38	1.33
4	HE	501	GTP	PA-O3A	2.15	1.61	1.59
4	GA	501	GTP	C2-N3	2.15	1.38	1.33
4	HE	501	GTP	C2-N3	2.14	1.38	1.33
4	GE	501	GTP	C2-N3	2.14	1.38	1.33
4	LA	501	GTP	C2-N3	2.14	1.38	1.33
4	DE	501	GTP	PA-O3A	2.14	1.61	1.59
4	LC	501	GTP	PA-O3A	2.13	1.61	1.59
4	JC	501	GTP	C2-N3	2.13	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	EE	501	GTP	C2-N3	2.13	1.38	1.33
4	MC	501	GTP	C2-N3	2.13	1.38	1.33
4	LE	501	GTP	C2-N3	2.13	1.38	1.33
4	LA	501	GTP	PA-O3A	2.13	1.61	1.59
4	FA	501	GTP	PA-O3A	2.12	1.61	1.59
4	BC	501	GTP	PA-O3A	2.11	1.61	1.59
4	IA	501	GTP	PA-O3A	2.10	1.61	1.59
4	BA	501	GTP	PA-O3A	2.10	1.61	1.59
4	ME	501	GTP	PA-O3A	2.09	1.61	1.59
4	NE	501	GTP	PA-O3A	2.09	1.61	1.59
4	GC	501	GTP	PA-O3A	2.09	1.61	1.59
4	MC	501	GTP	PA-O3A	2.09	1.61	1.59
4	EC	501	GTP	PA-O3A	2.09	1.61	1.59
4	GA	501	GTP	PA-O3A	2.09	1.61	1.59
4	AA	501	GTP	PA-O3A	2.08	1.61	1.59
4	DC	501	GTP	PA-O3A	2.08	1.61	1.59
4	AE	501	GTP	PA-O3A	2.08	1.61	1.59
4	MA	501	GTP	PA-O3A	2.08	1.61	1.59
4	KA	501	GTP	PA-O3A	2.07	1.61	1.59
4	CC	501	GTP	PA-O3A	2.07	1.61	1.59
4	JE	501	GTP	PA-O3A	2.07	1.61	1.59
4	FC	501	GTP	PA-O3A	2.07	1.61	1.59
4	AC	501	GTP	PA-O3A	2.06	1.61	1.59
4	HC	501	GTP	PA-O3A	2.06	1.61	1.59
4	IE	501	GTP	PA-O3A	2.06	1.61	1.59
4	JC	501	GTP	PA-O3A	2.06	1.61	1.59
4	EA	501	GTP	PA-O3A	2.05	1.61	1.59
4	JA	501	GTP	PA-O3A	2.05	1.61	1.59
4	KE	501	GTP	PA-O3A	2.05	1.61	1.59
4	DA	501	GTP	PA-O3A	2.05	1.61	1.59
4	IC	501	GTP	PA-O3A	2.05	1.61	1.59
4	KC	501	GTP	PA-O3A	2.05	1.61	1.59
4	EE	501	GTP	PA-O3A	2.05	1.61	1.59
4	LE	501	GTP	PA-O3A	2.05	1.61	1.59
4	BE	501	GTP	PA-O3A	2.04	1.61	1.59
4	CE	501	GTP	PA-O3A	2.03	1.61	1.59
4	NC	501	GTP	PA-O3A	2.03	1.61	1.59
4	GE	501	GTP	PA-O3A	2.03	1.61	1.59
4	HA	501	GTP	PA-O3A	2.03	1.61	1.59
4	CA	501	GTP	PA-O3A	2.02	1.61	1.59
4	FE	501	GTP	PA-O3A	2.01	1.61	1.59

All (1034) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	GB	502	TA1	C10-C18-C20	-6.26	105.97	116.30
7	AF	502	TA1	C10-C18-C20	-6.26	105.97	116.30
7	GF	502	TA1	C10-C18-C20	-6.25	105.98	116.30
7	BB	502	TA1	C10-C18-C20	-6.25	105.98	116.30
7	FB	502	TA1	C10-C18-C20	-6.25	105.99	116.30
7	EB	502	TA1	C10-C18-C20	-6.25	105.99	116.30
7	IB	502	TA1	C10-C18-C20	-6.25	105.99	116.30
7	FF	502	TA1	C10-C18-C20	-6.24	106.00	116.30
7	KB	502	TA1	C10-C18-C20	-6.24	106.00	116.30
7	EF	502	TA1	C10-C18-C20	-6.24	106.00	116.30
7	FD	502	TA1	C10-C18-C20	-6.24	106.00	116.30
7	MD	502	TA1	C10-C18-C20	-6.24	106.00	116.30
7	BF	502	TA1	C10-C18-C20	-6.24	106.00	116.30
7	GD	502	TA1	C10-C18-C20	-6.24	106.00	116.30
7	CB	502	TA1	C10-C18-C20	-6.24	106.01	116.30
7	DB	502	TA1	C10-C18-C20	-6.24	106.01	116.30
7	JF	502	TA1	C10-C18-C20	-6.24	106.01	116.30
7	ED	502	TA1	C10-C18-C20	-6.23	106.01	116.30
7	CF	502	TA1	C10-C18-C20	-6.23	106.02	116.30
7	IF	502	TA1	C10-C18-C20	-6.23	106.02	116.30
7	LD	502	TA1	C10-C18-C20	-6.23	106.02	116.30
7	DF	502	TA1	C10-C18-C20	-6.23	106.02	116.30
7	NB	502	TA1	C10-C18-C20	-6.23	106.02	116.30
7	HB	502	TA1	C10-C18-C20	-6.23	106.03	116.30
7	KF	502	TA1	C10-C18-C20	-6.22	106.03	116.30
7	NF	502	TA1	C10-C18-C20	-6.22	106.03	116.30
7	DD	502	TA1	C10-C18-C20	-6.22	106.03	116.30
7	JD	502	TA1	C10-C18-C20	-6.22	106.03	116.30
7	CD	502	TA1	C10-C18-C20	-6.22	106.03	116.30
7	MB	502	TA1	C10-C18-C20	-6.22	106.04	116.30
7	BD	502	TA1	C10-C18-C20	-6.22	106.04	116.30
7	KD	502	TA1	C10-C18-C20	-6.22	106.04	116.30
7	JB	502	TA1	C10-C18-C20	-6.22	106.04	116.30
7	LB	502	TA1	C10-C18-C20	-6.22	106.04	116.30
7	HF	502	TA1	C10-C18-C20	-6.21	106.05	116.30
7	AD	502	TA1	C10-C18-C20	-6.21	106.05	116.30
7	AB	502	TA1	C10-C18-C20	-6.21	106.05	116.30
7	ID	502	TA1	C10-C18-C20	-6.21	106.05	116.30
7	LF	502	TA1	C10-C18-C20	-6.21	106.05	116.30
7	MF	502	TA1	C10-C18-C20	-6.21	106.05	116.30
7	ND	502	TA1	C10-C18-C20	-6.20	106.06	116.30
7	HD	502	TA1	C10-C18-C20	-6.20	106.07	116.30
7	KB	502	TA1	O04-C11-C14	5.51	119.81	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	FD	502	TA1	O04-C11-C14	5.51	119.81	108.13
7	IB	502	TA1	O04-C11-C14	5.51	119.81	108.13
7	DD	502	TA1	O04-C11-C14	5.51	119.81	108.13
7	KF	502	TA1	O04-C11-C14	5.51	119.81	108.13
7	LB	502	TA1	O04-C11-C14	5.51	119.80	108.13
7	ED	502	TA1	O04-C11-C14	5.51	119.80	108.13
7	MB	502	TA1	O04-C11-C14	5.51	119.80	108.13
7	LD	502	TA1	O04-C11-C14	5.50	119.80	108.13
7	EF	502	TA1	O04-C11-C14	5.50	119.80	108.13
7	ID	502	TA1	O04-C11-C14	5.50	119.79	108.13
7	GD	502	TA1	O04-C11-C14	5.50	119.79	108.13
7	BD	502	TA1	O04-C11-C14	5.50	119.78	108.13
7	BB	502	TA1	O04-C11-C14	5.49	119.78	108.13
7	JB	502	TA1	O04-C11-C14	5.49	119.78	108.13
7	NB	502	TA1	O04-C11-C14	5.49	119.78	108.13
7	AF	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	CD	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	FF	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	BF	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	CB	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	MD	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	DB	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	KD	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	EB	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	NF	502	TA1	O04-C11-C14	5.49	119.77	108.13
7	HD	502	TA1	O04-C11-C14	5.49	119.76	108.13
7	DF	502	TA1	O04-C11-C14	5.49	119.76	108.13
7	CF	502	TA1	O04-C11-C14	5.48	119.76	108.13
7	IF	502	TA1	O04-C11-C14	5.48	119.76	108.13
7	JD	502	TA1	O04-C11-C14	5.48	119.76	108.13
7	MF	502	TA1	O04-C11-C14	5.48	119.75	108.13
7	HF	502	TA1	O04-C11-C14	5.48	119.75	108.13
7	GB	502	TA1	O04-C11-C14	5.48	119.75	108.13
7	GF	502	TA1	O04-C11-C14	5.48	119.74	108.13
7	HB	502	TA1	O04-C11-C14	5.48	119.74	108.13
7	ND	502	TA1	O04-C11-C14	5.48	119.74	108.13
7	JF	502	TA1	O04-C11-C14	5.47	119.73	108.13
7	FB	502	TA1	O04-C11-C14	5.47	119.73	108.13
7	AD	502	TA1	O04-C11-C14	5.47	119.72	108.13
7	LF	502	TA1	O04-C11-C14	5.47	119.72	108.13
7	AB	502	TA1	O04-C11-C14	5.47	119.72	108.13
7	NB	502	TA1	O08-C20-C21	-5.46	112.72	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	JF	502	TA1	O08-C20-C21	-5.46	112.72	119.28
7	CD	502	TA1	O08-C20-C21	-5.46	112.72	119.28
7	FF	502	TA1	O08-C20-C21	-5.46	112.73	119.28
7	HF	502	TA1	O08-C20-C21	-5.46	112.73	119.28
7	EF	502	TA1	O08-C20-C21	-5.45	112.73	119.28
7	GB	502	TA1	O08-C20-C21	-5.44	112.74	119.28
7	FD	502	TA1	O08-C20-C21	-5.44	112.75	119.28
7	CB	502	TA1	O08-C20-C21	-5.44	112.75	119.28
7	AB	502	TA1	O08-C20-C21	-5.44	112.75	119.28
7	FB	502	TA1	O08-C20-C21	-5.44	112.75	119.28
7	BF	502	TA1	O08-C20-C21	-5.44	112.75	119.28
7	LB	502	TA1	O08-C20-C21	-5.43	112.75	119.28
7	ED	502	TA1	O08-C20-C21	-5.43	112.75	119.28
7	EB	502	TA1	O08-C20-C21	-5.43	112.76	119.28
7	IB	502	TA1	O08-C20-C21	-5.43	112.76	119.28
7	AF	502	TA1	O08-C20-C21	-5.43	112.76	119.28
7	KB	502	TA1	O08-C20-C21	-5.43	112.76	119.28
7	BB	502	TA1	O08-C20-C21	-5.42	112.76	119.28
7	LF	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	BD	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	JB	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	ID	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	CF	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	IF	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	KF	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	MF	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	ND	502	TA1	O08-C20-C21	-5.42	112.77	119.28
7	LD	502	TA1	O08-C20-C21	-5.41	112.78	119.28
7	GF	502	TA1	O08-C20-C21	-5.41	112.78	119.28
7	DB	502	TA1	O08-C20-C21	-5.41	112.78	119.28
7	HB	502	TA1	O08-C20-C21	-5.41	112.78	119.28
7	JD	502	TA1	O08-C20-C21	-5.41	112.78	119.28
7	DD	502	TA1	O08-C20-C21	-5.41	112.78	119.28
7	HD	502	TA1	O08-C20-C21	-5.41	112.78	119.28
7	KD	502	TA1	O08-C20-C21	-5.41	112.79	119.28
7	AD	502	TA1	O08-C20-C21	-5.40	112.79	119.28
7	MB	502	TA1	O08-C20-C21	-5.40	112.79	119.28
7	MD	502	TA1	O08-C20-C21	-5.39	112.80	119.28
7	NF	502	TA1	O08-C20-C21	-5.39	112.80	119.28
7	GD	502	TA1	O08-C20-C21	-5.38	112.82	119.28
7	DF	502	TA1	O08-C20-C21	-5.37	112.83	119.28
7	CD	502	TA1	C21-C24-C25	-5.18	112.95	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	ED	502	TA1	C21-C24-C25	-5.17	112.96	120.29
7	ND	502	TA1	C21-C24-C25	-5.17	112.96	120.29
7	KB	502	TA1	C21-C24-C25	-5.17	112.96	120.29
7	DD	502	TA1	C21-C24-C25	-5.16	112.97	120.29
7	LD	502	TA1	C21-C24-C25	-5.16	112.97	120.29
7	HF	502	TA1	C21-C24-C25	-5.16	112.97	120.29
7	DB	502	TA1	C21-C24-C25	-5.16	112.97	120.29
7	GD	502	TA1	C21-C24-C25	-5.15	112.98	120.29
7	KF	502	TA1	C21-C24-C25	-5.15	112.98	120.29
7	NF	502	TA1	C21-C24-C25	-5.15	112.99	120.29
7	LB	502	TA1	C21-C24-C25	-5.15	112.99	120.29
7	BD	502	TA1	C21-C24-C25	-5.14	112.99	120.29
7	NB	502	TA1	C21-C24-C25	-5.14	112.99	120.29
7	IF	502	TA1	C21-C24-C25	-5.14	113.00	120.29
7	EB	502	TA1	C21-C24-C25	-5.14	113.00	120.29
7	EF	502	TA1	C21-C24-C25	-5.14	113.00	120.29
7	JB	502	TA1	C21-C24-C25	-5.14	113.00	120.29
7	FB	502	TA1	C21-C24-C25	-5.14	113.00	120.29
7	FF	502	TA1	C21-C24-C25	-5.14	113.00	120.29
7	LF	502	TA1	C21-C24-C25	-5.14	113.00	120.29
7	GF	502	TA1	C21-C24-C25	-5.14	113.00	120.29
7	IB	502	TA1	C21-C24-C25	-5.14	113.01	120.29
7	KD	502	TA1	C21-C24-C25	-5.13	113.01	120.29
7	CB	502	TA1	C21-C24-C25	-5.13	113.01	120.29
7	CF	502	TA1	C21-C24-C25	-5.13	113.01	120.29
7	GB	502	TA1	C21-C24-C25	-5.13	113.01	120.29
7	AD	502	TA1	C21-C24-C25	-5.13	113.01	120.29
7	MD	502	TA1	C21-C24-C25	-5.13	113.01	120.29
7	HD	502	TA1	C21-C24-C25	-5.13	113.02	120.29
7	AF	502	TA1	C21-C24-C25	-5.13	113.02	120.29
7	ID	502	TA1	C21-C24-C25	-5.13	113.02	120.29
7	JF	502	TA1	C21-C24-C25	-5.13	113.02	120.29
7	MB	502	TA1	C21-C24-C25	-5.13	113.02	120.29
7	BF	502	TA1	C21-C24-C25	-5.12	113.02	120.29
7	AB	502	TA1	C21-C24-C25	-5.12	113.03	120.29
7	FD	502	TA1	C21-C24-C25	-5.12	113.03	120.29
7	JD	502	TA1	C21-C24-C25	-5.12	113.03	120.29
7	BB	502	TA1	C21-C24-C25	-5.12	113.03	120.29
7	MF	502	TA1	C21-C24-C25	-5.12	113.03	120.29
7	HB	502	TA1	C21-C24-C25	-5.11	113.05	120.29
7	DF	502	TA1	C21-C24-C25	-5.10	113.06	120.29
7	AF	502	TA1	O09-C21-C20	4.06	117.87	108.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	LD	502	TA1	O09-C21-C20	4.06	117.86	108.66
7	MD	502	TA1	O09-C21-C20	4.06	117.86	108.66
7	CF	502	TA1	O09-C21-C20	4.06	117.86	108.66
7	MB	502	TA1	O09-C21-C20	4.06	117.86	108.66
7	DB	502	TA1	O09-C21-C20	4.06	117.85	108.66
7	FF	502	TA1	O09-C21-C20	4.06	117.85	108.66
7	ID	502	TA1	O09-C21-C20	4.05	117.85	108.66
7	HB	502	TA1	O09-C21-C20	4.05	117.85	108.66
7	IF	502	TA1	O09-C21-C20	4.05	117.84	108.66
7	JF	502	TA1	O09-C21-C20	4.05	117.84	108.66
7	DD	502	TA1	O09-C21-C20	4.05	117.84	108.66
7	EF	502	TA1	O09-C21-C20	4.05	117.84	108.66
7	NB	502	TA1	O09-C21-C20	4.05	117.84	108.66
7	NF	502	TA1	O09-C21-C20	4.05	117.84	108.66
7	IB	502	TA1	O09-C21-C20	4.05	117.84	108.66
7	BF	502	TA1	O09-C21-C20	4.05	117.84	108.66
7	EB	502	TA1	O09-C21-C20	4.05	117.83	108.66
7	JB	502	TA1	O09-C21-C20	4.05	117.83	108.66
7	FD	502	TA1	O09-C21-C20	4.05	117.83	108.66
7	GF	502	TA1	O09-C21-C20	4.05	117.83	108.66
7	JD	502	TA1	O09-C21-C20	4.04	117.83	108.66
7	KB	502	TA1	O09-C21-C20	4.04	117.83	108.66
7	ED	502	TA1	O09-C21-C20	4.04	117.82	108.66
7	BD	502	TA1	O09-C21-C20	4.04	117.82	108.66
7	KF	502	TA1	O09-C21-C20	4.04	117.82	108.66
7	HD	502	TA1	O09-C21-C20	4.04	117.81	108.66
7	LB	502	TA1	O09-C21-C20	4.04	117.81	108.66
7	DF	502	TA1	O09-C21-C20	4.04	117.81	108.66
7	CD	502	TA1	O09-C21-C20	4.04	117.81	108.66
7	ND	502	TA1	O09-C21-C20	4.04	117.81	108.66
7	GB	502	TA1	O09-C21-C20	4.04	117.81	108.66
7	KD	502	TA1	O09-C21-C20	4.04	117.81	108.66
7	BB	502	TA1	O09-C21-C20	4.04	117.81	108.66
7	FB	502	TA1	O09-C21-C20	4.04	117.80	108.66
7	HF	502	TA1	O09-C21-C20	4.03	117.80	108.66
7	AB	502	TA1	O09-C21-C20	4.03	117.79	108.66
7	AD	502	TA1	O09-C21-C20	4.03	117.78	108.66
7	GD	502	TA1	O09-C21-C20	4.03	117.78	108.66
7	CB	502	TA1	O09-C21-C20	4.03	117.78	108.66
7	MF	502	TA1	O09-C21-C20	4.02	117.77	108.66
7	LF	502	TA1	O09-C21-C20	4.01	117.76	108.66
7	LB	502	TA1	O04-C11-C10	-4.01	103.03	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	EB	502	TA1	O04-C11-C10	-4.01	103.03	109.24
7	GB	502	TA1	O04-C11-C10	-4.01	103.03	109.24
7	BB	502	TA1	O04-C11-C10	-4.00	103.04	109.24
7	FF	502	TA1	C10-C18-C17	4.00	114.15	106.55
7	KF	502	TA1	C10-C18-C17	4.00	114.15	106.55
7	MD	502	TA1	O04-C11-C10	-4.00	103.05	109.24
7	KD	502	TA1	C10-C18-C17	4.00	114.14	106.55
7	MF	502	TA1	C10-C18-C17	4.00	114.14	106.55
7	FD	502	TA1	C10-C18-C17	4.00	114.14	106.55
7	NF	502	TA1	C10-C18-C17	4.00	114.14	106.55
7	BF	502	TA1	O04-C11-C10	-4.00	103.05	109.24
7	CD	502	TA1	O04-C11-C10	-4.00	103.05	109.24
7	GF	502	TA1	C10-C18-C17	3.99	114.13	106.55
7	EF	502	TA1	O04-C11-C10	-3.99	103.06	109.24
7	HD	502	TA1	O04-C11-C10	-3.99	103.06	109.24
7	AB	502	TA1	C10-C18-C17	3.99	114.13	106.55
7	ND	502	TA1	C10-C18-C17	3.99	114.13	106.55
7	IB	502	TA1	O04-C11-C10	-3.99	103.06	109.24
7	CF	502	TA1	C10-C18-C17	3.99	114.12	106.55
7	KB	502	TA1	O04-C11-C10	-3.99	103.06	109.24
7	FF	502	TA1	O04-C11-C10	-3.99	103.06	109.24
7	KF	502	TA1	O04-C11-C10	-3.99	103.06	109.24
7	CD	502	TA1	C10-C18-C17	3.99	114.12	106.55
7	GD	502	TA1	O04-C11-C10	-3.99	103.06	109.24
7	IB	502	TA1	C10-C18-C17	3.99	114.12	106.55
7	ID	502	TA1	O04-C11-C10	-3.99	103.07	109.24
7	AF	502	TA1	C10-C18-C17	3.99	114.12	106.55
7	DB	502	TA1	O04-C11-C10	-3.99	103.07	109.24
7	KB	502	TA1	C10-C18-C17	3.99	114.12	106.55
7	LD	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	NB	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	EB	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	JB	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	CF	502	TA1	O04-C11-C10	-3.98	103.07	109.24
7	FD	502	TA1	O04-C11-C10	-3.98	103.07	109.24
7	JD	502	TA1	O04-C11-C10	-3.98	103.07	109.24
7	BB	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	ID	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	MB	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	DF	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	HD	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	BD	502	TA1	C10-C18-C17	3.98	114.11	106.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	JD	502	TA1	C10-C18-C17	3.98	114.11	106.55
7	DD	502	TA1	O04-C11-C10	-3.98	103.08	109.24
7	ED	502	TA1	O04-C11-C10	-3.98	103.08	109.24
7	DB	502	TA1	C10-C18-C17	3.98	114.10	106.55
7	JF	502	TA1	O04-C11-C10	-3.98	103.08	109.24
7	ED	502	TA1	C10-C18-C17	3.98	114.10	106.55
7	LF	502	TA1	C10-C18-C17	3.98	114.10	106.55
7	CB	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	EF	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	MD	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	FB	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	IF	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	JB	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	BF	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	DD	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	IF	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	GF	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	LB	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	HF	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	NB	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	HB	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	NF	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	JF	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	MB	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	GD	502	TA1	C10-C18-C17	3.97	114.09	106.55
7	KD	502	TA1	O04-C11-C10	-3.97	103.09	109.24
7	FB	502	TA1	C10-C18-C17	3.97	114.08	106.55
7	LF	502	TA1	O04-C11-C10	-3.97	103.10	109.24
7	GB	502	TA1	C10-C18-C17	3.97	114.08	106.55
7	HF	502	TA1	C10-C18-C17	3.97	114.08	106.55
7	AD	502	TA1	C10-C18-C17	3.96	114.08	106.55
7	LD	502	TA1	O04-C11-C10	-3.96	103.10	109.24
7	BD	502	TA1	O04-C11-C10	-3.96	103.11	109.24
7	MF	502	TA1	O04-C11-C10	-3.96	103.11	109.24
7	AF	502	TA1	O04-C11-C10	-3.96	103.11	109.24
7	CB	502	TA1	O04-C11-C10	-3.96	103.11	109.24
7	DF	502	TA1	O04-C11-C10	-3.96	103.11	109.24
7	ND	502	TA1	O04-C11-C10	-3.96	103.11	109.24
7	HB	502	TA1	C10-C18-C17	3.95	114.06	106.55
7	AB	502	TA1	O04-C11-C10	-3.95	103.12	109.24
7	AD	502	TA1	O04-C11-C10	-3.95	103.12	109.24
4	FA	501	GTP	C8-N7-C5	3.68	108.81	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AE	501	GTP	C8-N7-C5	3.68	108.81	102.55
4	GE	501	GTP	C8-N7-C5	3.67	108.80	102.55
4	BE	501	GTP	C8-N7-C5	3.67	108.79	102.55
4	CE	501	GTP	C8-N7-C5	3.67	108.79	102.55
4	JC	501	GTP	C8-N7-C5	3.67	108.79	102.55
4	CA	501	GTP	C8-N7-C5	3.67	108.79	102.55
4	LC	501	GTP	C8-N7-C5	3.66	108.78	102.55
4	DA	501	GTP	C8-N7-C5	3.66	108.78	102.55
4	BC	501	GTP	C8-N7-C5	3.66	108.78	102.55
4	KC	501	GTP	C8-N7-C5	3.66	108.77	102.55
4	ME	501	GTP	C8-N7-C5	3.66	108.77	102.55
4	IE	501	GTP	C8-N7-C5	3.65	108.77	102.55
4	NE	501	GTP	C8-N7-C5	3.65	108.77	102.55
4	EE	501	GTP	C8-N7-C5	3.65	108.77	102.55
4	MC	501	GTP	C8-N7-C5	3.65	108.77	102.55
4	NA	501	GTP	C8-N7-C5	3.65	108.77	102.55
4	FE	501	GTP	C8-N7-C5	3.65	108.77	102.55
4	HE	501	GTP	C8-N7-C5	3.65	108.76	102.55
4	IA	501	GTP	C8-N7-C5	3.65	108.76	102.55
4	CC	501	GTP	C8-N7-C5	3.65	108.76	102.55
4	EC	501	GTP	C8-N7-C5	3.65	108.76	102.55
4	MA	501	GTP	C8-N7-C5	3.65	108.76	102.55
4	HA	501	GTP	C8-N7-C5	3.65	108.76	102.55
4	JE	501	GTP	C8-N7-C5	3.65	108.76	102.55
4	GC	501	GTP	C8-N7-C5	3.65	108.75	102.55
4	IC	501	GTP	C8-N7-C5	3.64	108.75	102.55
4	DC	501	GTP	C8-N7-C5	3.64	108.75	102.55
4	AA	501	GTP	C8-N7-C5	3.64	108.75	102.55
4	KA	501	GTP	C8-N7-C5	3.64	108.75	102.55
4	AC	501	GTP	C8-N7-C5	3.64	108.75	102.55
4	GA	501	GTP	C8-N7-C5	3.64	108.74	102.55
4	HC	501	GTP	C8-N7-C5	3.64	108.74	102.55
4	LA	501	GTP	C8-N7-C5	3.64	108.74	102.55
4	NC	501	GTP	C8-N7-C5	3.64	108.74	102.55
4	BA	501	GTP	C8-N7-C5	3.63	108.74	102.55
4	LE	501	GTP	C8-N7-C5	3.63	108.73	102.55
4	DE	501	GTP	C8-N7-C5	3.63	108.73	102.55
4	JA	501	GTP	C8-N7-C5	3.63	108.73	102.55
4	KE	501	GTP	C8-N7-C5	3.63	108.72	102.55
4	EA	501	GTP	C8-N7-C5	3.62	108.72	102.55
4	FC	501	GTP	C8-N7-C5	3.61	108.70	102.55
7	MB	502	TA1	C11-C10-C18	3.47	115.73	110.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	AD	502	TA1	C11-C10-C18	3.46	115.72	110.78
7	CB	502	TA1	C11-C10-C18	3.45	115.71	110.78
7	HF	502	TA1	C11-C10-C18	3.45	115.71	110.78
7	DF	502	TA1	C11-C10-C18	3.45	115.70	110.78
7	JF	502	TA1	C11-C10-C18	3.45	115.70	110.78
7	LD	502	TA1	C11-C10-C18	3.45	115.70	110.78
7	IF	502	TA1	C11-C10-C18	3.44	115.69	110.78
7	ND	502	TA1	C11-C10-C18	3.44	115.69	110.78
7	HB	502	TA1	C11-C10-C18	3.44	115.69	110.78
7	AB	502	TA1	C11-C10-C18	3.44	115.69	110.78
7	JD	502	TA1	C11-C10-C18	3.44	115.69	110.78
7	NB	502	TA1	C11-C10-C18	3.44	115.69	110.78
7	LB	502	TA1	C11-C10-C18	3.43	115.69	110.78
7	BD	502	TA1	C11-C10-C18	3.43	115.69	110.78
7	EF	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	FD	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	KD	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	KF	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	DD	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	ED	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	MF	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	BF	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	FB	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	LF	502	TA1	C11-C10-C18	3.43	115.68	110.78
7	IB	502	TA1	C11-C10-C18	3.43	115.67	110.78
7	JB	502	TA1	C11-C10-C18	3.43	115.67	110.78
7	AF	502	TA1	C11-C10-C18	3.42	115.67	110.78
7	ID	502	TA1	C11-C10-C18	3.42	115.67	110.78
7	DB	502	TA1	C11-C10-C18	3.42	115.67	110.78
7	KB	502	TA1	C11-C10-C18	3.42	115.67	110.78
7	GB	502	TA1	C11-C10-C18	3.42	115.67	110.78
7	CD	502	TA1	C11-C10-C18	3.42	115.66	110.78
7	NF	502	TA1	C11-C10-C18	3.42	115.66	110.78
7	GD	502	TA1	C11-C10-C18	3.42	115.66	110.78
7	GF	502	TA1	C11-C10-C18	3.41	115.66	110.78
7	MD	502	TA1	C11-C10-C18	3.41	115.65	110.78
7	FF	502	TA1	C11-C10-C18	3.41	115.65	110.78
7	CF	502	TA1	C11-C10-C18	3.41	115.65	110.78
7	HD	502	TA1	C11-C10-C18	3.40	115.64	110.78
7	BB	502	TA1	C11-C10-C18	3.40	115.64	110.78
7	EB	502	TA1	C11-C10-C18	3.39	115.62	110.78
7	NB	502	TA1	C47-C45-C46	-3.31	96.91	106.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	KB	502	TA1	C47-C45-C46	-3.30	96.91	106.29
7	BD	502	TA1	C47-C45-C46	-3.30	96.92	106.29
7	CD	502	TA1	C47-C45-C46	-3.30	96.92	106.29
7	EF	502	TA1	C47-C45-C46	-3.30	96.92	106.29
7	HF	502	TA1	C47-C45-C46	-3.30	96.92	106.29
7	AB	502	TA1	C47-C45-C46	-3.30	96.92	106.29
7	FB	502	TA1	C47-C45-C46	-3.30	96.92	106.29
7	ED	502	TA1	C47-C45-C46	-3.30	96.93	106.29
7	BF	502	TA1	C47-C45-C46	-3.30	96.93	106.29
7	MB	502	TA1	C47-C45-C46	-3.30	96.93	106.29
7	JD	502	TA1	C47-C45-C46	-3.30	96.93	106.29
7	DD	502	TA1	C47-C45-C46	-3.30	96.93	106.29
7	JF	502	TA1	C47-C45-C46	-3.30	96.94	106.29
7	HD	502	TA1	C47-C45-C46	-3.29	96.94	106.29
7	IB	502	TA1	C47-C45-C46	-3.29	96.94	106.29
7	EB	502	TA1	C47-C45-C46	-3.29	96.94	106.29
7	ND	502	TA1	C47-C45-C46	-3.29	96.94	106.29
7	GD	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	LF	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	LD	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	AD	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	FD	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	KD	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	NF	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	CF	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	DF	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	MD	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	BB	502	TA1	C47-C45-C46	-3.29	96.95	106.29
7	ID	502	TA1	C47-C45-C46	-3.29	96.96	106.29
7	DB	502	TA1	C47-C45-C46	-3.29	96.96	106.29
7	HB	502	TA1	C47-C45-C46	-3.29	96.96	106.29
7	AF	502	TA1	C47-C45-C46	-3.29	96.96	106.29
7	GB	502	TA1	C47-C45-C46	-3.29	96.96	106.29
7	CB	502	TA1	C47-C45-C46	-3.29	96.96	106.29
7	KF	502	TA1	C47-C45-C46	-3.29	96.96	106.29
7	IF	502	TA1	C47-C45-C46	-3.29	96.97	106.29
7	JB	502	TA1	C47-C45-C46	-3.28	96.97	106.29
7	FF	502	TA1	C47-C45-C46	-3.28	96.97	106.29
7	LB	502	TA1	C47-C45-C46	-3.28	96.97	106.29
7	GF	502	TA1	C47-C45-C46	-3.28	96.97	106.29
7	MF	502	TA1	C47-C45-C46	-3.28	96.97	106.29
7	CB	502	TA1	C18-C20-C21	3.21	128.25	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	GB	502	TA1	C18-C20-C21	3.21	128.25	121.38
7	EB	502	TA1	C18-C20-C21	3.21	128.25	121.38
7	LF	502	TA1	C18-C20-C21	3.21	128.25	121.38
7	CD	502	TA1	C18-C20-C21	3.21	128.25	121.38
7	MF	502	TA1	C18-C20-C21	3.21	128.25	121.38
7	GD	502	TA1	C18-C20-C21	3.21	128.25	121.38
7	GF	502	TA1	C18-C20-C21	3.20	128.24	121.38
7	NB	502	TA1	C18-C20-C21	3.20	128.24	121.38
7	FB	502	TA1	C18-C20-C21	3.20	128.24	121.38
7	IF	502	TA1	C18-C20-C21	3.20	128.24	121.38
7	ED	502	TA1	C18-C20-C21	3.20	128.24	121.38
7	ID	502	TA1	C18-C20-C21	3.20	128.24	121.38
7	JD	502	TA1	C18-C20-C21	3.20	128.24	121.38
7	KF	502	TA1	C18-C20-C21	3.20	128.24	121.38
7	JF	502	TA1	C18-C20-C21	3.20	128.23	121.38
7	EF	502	TA1	C18-C20-C21	3.20	128.23	121.38
7	BB	502	TA1	C18-C20-C21	3.20	128.23	121.38
7	IB	502	TA1	C18-C20-C21	3.20	128.23	121.38
7	DD	502	TA1	C18-C20-C21	3.19	128.22	121.38
7	KB	502	TA1	C18-C20-C21	3.19	128.22	121.38
7	DB	502	TA1	C18-C20-C21	3.19	128.22	121.38
7	BD	502	TA1	C18-C20-C21	3.19	128.22	121.38
7	BF	502	TA1	C18-C20-C21	3.19	128.22	121.38
7	AD	502	TA1	C18-C20-C21	3.19	128.22	121.38
7	FF	502	TA1	C18-C20-C21	3.19	128.21	121.38
7	DF	502	TA1	C18-C20-C21	3.19	128.21	121.38
7	AB	502	TA1	C18-C20-C21	3.19	128.21	121.38
7	NF	502	TA1	C18-C20-C21	3.19	128.21	121.38
7	HB	502	TA1	C18-C20-C21	3.19	128.21	121.38
7	HD	502	TA1	C18-C20-C21	3.19	128.21	121.38
7	AF	502	TA1	C18-C20-C21	3.19	128.21	121.38
7	KD	502	TA1	C18-C20-C21	3.19	128.21	121.38
7	JB	502	TA1	C18-C20-C21	3.18	128.20	121.38
7	ND	502	TA1	C18-C20-C21	3.18	128.20	121.38
7	LD	502	TA1	C18-C20-C21	3.18	128.20	121.38
7	MD	502	TA1	C18-C20-C21	3.18	128.19	121.38
7	HF	502	TA1	C18-C20-C21	3.18	128.19	121.38
7	FD	502	TA1	C18-C20-C21	3.18	128.19	121.38
7	LB	502	TA1	C18-C20-C21	3.17	128.18	121.38
7	CF	502	TA1	C18-C20-C21	3.17	128.17	121.38
7	MB	502	TA1	C18-C20-C21	3.17	128.16	121.38
7	MB	502	TA1	C19-C18-C17	-3.16	103.53	109.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	JF	502	TA1	C19-C18-C17	-3.16	103.54	109.61
7	KF	502	TA1	C19-C18-C17	-3.16	103.55	109.61
7	LF	502	TA1	C19-C18-C17	-3.16	103.55	109.61
7	NB	502	TA1	C19-C18-C17	-3.15	103.55	109.61
7	LB	502	TA1	C19-C18-C17	-3.15	103.55	109.61
7	DB	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	CB	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	JB	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	AB	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	BD	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	FD	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	HF	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	ND	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	KD	502	TA1	C19-C18-C17	-3.15	103.56	109.61
7	CD	502	TA1	C19-C18-C17	-3.15	103.57	109.61
7	FB	502	TA1	C19-C18-C17	-3.14	103.58	109.61
7	JD	502	TA1	C19-C18-C17	-3.14	103.58	109.61
7	MF	502	TA1	C19-C18-C17	-3.14	103.58	109.61
7	DD	502	TA1	C19-C18-C17	-3.14	103.58	109.61
7	LD	502	TA1	C19-C18-C17	-3.14	103.58	109.61
7	HD	502	TA1	C19-C18-C17	-3.14	103.58	109.61
7	IF	502	TA1	C19-C18-C17	-3.14	103.58	109.61
7	AD	502	TA1	C19-C18-C17	-3.14	103.58	109.61
7	EB	502	TA1	C19-C18-C17	-3.13	103.59	109.61
7	HB	502	TA1	C19-C18-C17	-3.13	103.59	109.61
7	FF	502	TA1	C19-C18-C17	-3.13	103.60	109.61
7	GF	502	TA1	C19-C18-C17	-3.13	103.60	109.61
7	IB	502	TA1	C19-C18-C17	-3.13	103.60	109.61
7	NF	502	TA1	C19-C18-C17	-3.13	103.60	109.61
7	CF	502	TA1	C19-C18-C17	-3.13	103.60	109.61
7	ID	502	TA1	C19-C18-C17	-3.13	103.60	109.61
7	GB	502	TA1	C19-C18-C17	-3.13	103.60	109.61
7	BF	502	TA1	C19-C18-C17	-3.12	103.61	109.61
7	GD	502	TA1	C19-C18-C17	-3.12	103.61	109.61
7	ED	502	TA1	C19-C18-C17	-3.12	103.61	109.61
7	BB	502	TA1	C19-C18-C17	-3.12	103.61	109.61
7	EF	502	TA1	C19-C18-C17	-3.12	103.61	109.61
7	DF	502	TA1	C19-C18-C17	-3.12	103.61	109.61
7	KB	502	TA1	C19-C18-C17	-3.12	103.62	109.61
7	AF	502	TA1	C19-C18-C17	-3.12	103.62	109.61
7	MD	502	TA1	C19-C18-C17	-3.10	103.65	109.61
7	ID	502	TA1	C11-O04-C12	3.07	126.94	119.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	LD	502	TA1	C11-O04-C12	3.07	126.94	119.17
7	KB	502	TA1	C11-O04-C12	3.06	126.94	119.17
7	FF	502	TA1	C11-O04-C12	3.06	126.93	119.17
7	MB	502	TA1	C11-O04-C12	3.06	126.93	119.17
4	GE	501	GTP	C5-C6-N1	3.06	119.91	114.07
7	LB	502	TA1	C11-O04-C12	3.06	126.92	119.17
4	NE	501	GTP	C5-C6-N1	3.06	119.90	114.07
7	DB	502	TA1	C11-O04-C12	3.06	126.92	119.17
7	IB	502	TA1	C11-O04-C12	3.06	126.92	119.17
4	BE	501	GTP	C5-C6-N1	3.05	119.90	114.07
7	DD	502	TA1	C11-O04-C12	3.05	126.91	119.17
7	AF	502	TA1	C11-O04-C12	3.05	126.91	119.17
7	EB	502	TA1	C11-O04-C12	3.05	126.91	119.17
7	ED	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	NF	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	ND	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	CB	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	GD	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	MD	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	CD	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	BD	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	KF	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	DF	502	TA1	C11-O04-C12	3.05	126.90	119.17
7	IF	502	TA1	C11-O04-C12	3.05	126.90	119.17
4	JA	501	GTP	C5-C6-N1	3.05	119.89	114.07
7	MF	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	FD	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	AB	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	CF	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	JD	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	FB	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	GF	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	EF	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	LF	502	TA1	C11-O04-C12	3.05	126.89	119.17
7	JF	502	TA1	C11-O04-C12	3.04	126.89	119.17
4	EE	501	GTP	C5-C6-N1	3.04	119.88	114.07
7	BB	502	TA1	C11-O04-C12	3.04	126.89	119.17
7	GB	502	TA1	C11-O04-C12	3.04	126.89	119.17
7	HB	502	TA1	C11-O04-C12	3.04	126.88	119.17
4	MC	501	GTP	C5-C6-N1	3.04	119.88	114.07
7	HF	502	TA1	C11-O04-C12	3.04	126.88	119.17
7	NB	502	TA1	C11-O04-C12	3.04	126.88	119.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	GC	501	GTP	C5-C6-N1	3.04	119.87	114.07
7	JB	502	TA1	C11-O04-C12	3.04	126.87	119.17
7	AD	502	TA1	C11-O04-C12	3.04	126.87	119.17
7	BF	502	TA1	C11-O04-C12	3.04	126.87	119.17
4	HE	501	GTP	C5-C6-N1	3.04	119.87	114.07
4	JE	501	GTP	C5-C6-N1	3.04	119.87	114.07
7	KD	502	TA1	C11-O04-C12	3.04	126.87	119.17
4	BA	501	GTP	C5-C6-N1	3.04	119.86	114.07
4	DC	501	GTP	C5-C6-N1	3.04	119.86	114.07
4	IC	501	GTP	C5-C6-N1	3.04	119.86	114.07
4	MA	501	GTP	C5-C6-N1	3.04	119.86	114.07
4	FA	501	GTP	C5-C6-N1	3.04	119.86	114.07
7	HD	502	TA1	C11-O04-C12	3.03	126.86	119.17
4	BC	501	GTP	C5-C6-N1	3.03	119.86	114.07
4	HA	501	GTP	C5-C6-N1	3.03	119.86	114.07
4	ME	501	GTP	C5-C6-N1	3.03	119.86	114.07
4	DA	501	GTP	C5-C6-N1	3.03	119.86	114.07
4	NA	501	GTP	C5-C6-N1	3.03	119.86	114.07
4	HC	501	GTP	C5-C6-N1	3.03	119.86	114.07
4	AE	501	GTP	C5-C6-N1	3.03	119.85	114.07
4	IA	501	GTP	C5-C6-N1	3.03	119.85	114.07
4	JC	501	GTP	C5-C6-N1	3.03	119.85	114.07
4	KC	501	GTP	C5-C6-N1	3.03	119.85	114.07
4	FC	501	GTP	C5-C6-N1	3.03	119.85	114.07
4	NC	501	GTP	C5-C6-N1	3.03	119.84	114.07
4	CE	501	GTP	C5-C6-N1	3.03	119.84	114.07
4	GA	501	GTP	C5-C6-N1	3.03	119.84	114.07
4	KE	501	GTP	C5-C6-N1	3.03	119.84	114.07
4	AA	501	GTP	C5-C6-N1	3.02	119.84	114.07
4	AC	501	GTP	C5-C6-N1	3.02	119.84	114.07
4	IE	501	GTP	C5-C6-N1	3.02	119.84	114.07
4	CC	501	GTP	C5-C6-N1	3.02	119.83	114.07
4	FE	501	GTP	C5-C6-N1	3.02	119.83	114.07
4	LA	501	GTP	C5-C6-N1	3.02	119.83	114.07
4	DE	501	GTP	C5-C6-N1	3.02	119.83	114.07
4	CA	501	GTP	C5-C6-N1	3.02	119.83	114.07
4	EA	501	GTP	C5-C6-N1	3.02	119.82	114.07
4	LC	501	GTP	C5-C6-N1	3.01	119.82	114.07
4	EC	501	GTP	C5-C6-N1	3.01	119.82	114.07
4	LE	501	GTP	C5-C6-N1	3.01	119.81	114.07
4	KA	501	GTP	C5-C6-N1	3.01	119.81	114.07
4	EE	501	GTP	C2-N1-C6	-2.95	119.71	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	NA	501	GTP	C2-N1-C6	-2.95	119.72	125.11
4	NE	501	GTP	C2-N1-C6	-2.94	119.73	125.11
4	BE	501	GTP	C2-N1-C6	-2.93	119.74	125.11
4	LA	501	GTP	C2-N1-C6	-2.93	119.75	125.11
4	MC	501	GTP	C2-N1-C6	-2.93	119.75	125.11
4	HE	501	GTP	C2-N1-C6	-2.93	119.75	125.11
4	GE	501	GTP	C2-N1-C6	-2.92	119.76	125.11
4	HA	501	GTP	C2-N1-C6	-2.92	119.76	125.11
4	HC	501	GTP	C2-N1-C6	-2.92	119.76	125.11
4	BA	501	GTP	C2-N1-C6	-2.92	119.76	125.11
4	AA	501	GTP	C2-N1-C6	-2.92	119.76	125.11
4	BC	501	GTP	C2-N1-C6	-2.92	119.76	125.11
4	AE	501	GTP	C2-N1-C6	-2.92	119.77	125.11
4	FA	501	GTP	C2-N1-C6	-2.92	119.77	125.11
4	ME	501	GTP	C2-N1-C6	-2.92	119.77	125.11
4	JA	501	GTP	C2-N1-C6	-2.92	119.77	125.11
4	IA	501	GTP	C2-N1-C6	-2.92	119.77	125.11
4	AC	501	GTP	C2-N1-C6	-2.91	119.77	125.11
4	MA	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	DC	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	KA	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	CA	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	FC	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	GC	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	KC	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	CE	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	DE	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	GA	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	JE	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	IC	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	LE	501	GTP	C2-N1-C6	-2.91	119.78	125.11
4	KE	501	GTP	C2-N1-C6	-2.90	119.79	125.11
4	EA	501	GTP	C2-N1-C6	-2.90	119.80	125.11
4	FE	501	GTP	C2-N1-C6	-2.90	119.80	125.11
4	NC	501	GTP	C2-N1-C6	-2.90	119.80	125.11
6	MB	501	GDP	C8-N7-C5	2.90	107.49	102.55
4	EC	501	GTP	C2-N1-C6	-2.90	119.80	125.11
4	CC	501	GTP	C2-N1-C6	-2.90	119.80	125.11
4	DA	501	GTP	C2-N1-C6	-2.90	119.80	125.11
4	JC	501	GTP	C2-N1-C6	-2.90	119.80	125.11
4	IE	501	GTP	C2-N1-C6	-2.90	119.81	125.11
6	CD	501	GDP	C8-N7-C5	2.90	107.48	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	LC	501	GTP	C2-N1-C6	-2.89	119.81	125.11
6	CB	501	GDP	C8-N7-C5	2.89	107.48	102.55
6	GD	501	GDP	C8-N7-C5	2.89	107.48	102.55
6	ND	501	GDP	C8-N7-C5	2.89	107.47	102.55
6	BD	501	GDP	C8-N7-C5	2.89	107.47	102.55
6	ED	501	GDP	C8-N7-C5	2.89	107.47	102.55
6	MF	501	GDP	C8-N7-C5	2.89	107.47	102.55
6	DB	501	GDP	C8-N7-C5	2.89	107.47	102.55
6	HB	501	GDP	C8-N7-C5	2.89	107.47	102.55
6	CF	501	GDP	C8-N7-C5	2.89	107.47	102.55
6	KB	501	GDP	C8-N7-C5	2.89	107.47	102.55
6	GB	501	GDP	C8-N7-C5	2.88	107.46	102.55
6	AB	501	GDP	C8-N7-C5	2.88	107.45	102.55
6	JB	501	GDP	C8-N7-C5	2.88	107.45	102.55
6	NB	501	GDP	C8-N7-C5	2.88	107.45	102.55
6	NF	501	GDP	C8-N7-C5	2.88	107.45	102.55
6	HF	501	GDP	C8-N7-C5	2.88	107.45	102.55
6	ID	501	GDP	C8-N7-C5	2.88	107.45	102.55
6	JD	501	GDP	C8-N7-C5	2.88	107.45	102.55
6	BF	501	GDP	C8-N7-C5	2.88	107.44	102.55
6	IB	501	GDP	C8-N7-C5	2.88	107.44	102.55
6	KD	501	GDP	C8-N7-C5	2.87	107.44	102.55
6	FD	501	GDP	C8-N7-C5	2.87	107.44	102.55
6	DF	501	GDP	C8-N7-C5	2.87	107.43	102.55
6	JF	501	GDP	C8-N7-C5	2.87	107.43	102.55
6	EB	501	GDP	C8-N7-C5	2.86	107.43	102.55
6	EF	501	GDP	C8-N7-C5	2.86	107.43	102.55
6	FF	501	GDP	C8-N7-C5	2.86	107.43	102.55
6	HD	501	GDP	C8-N7-C5	2.86	107.43	102.55
6	LF	501	GDP	C8-N7-C5	2.86	107.43	102.55
6	FB	501	GDP	C8-N7-C5	2.86	107.42	102.55
6	KF	501	GDP	C8-N7-C5	2.86	107.42	102.55
6	GF	501	GDP	C8-N7-C5	2.86	107.42	102.55
6	AD	501	GDP	C8-N7-C5	2.86	107.42	102.55
6	IF	501	GDP	C8-N7-C5	2.86	107.42	102.55
6	LD	501	GDP	C8-N7-C5	2.86	107.42	102.55
6	AF	501	GDP	C8-N7-C5	2.86	107.42	102.55
6	MD	501	GDP	C8-N7-C5	2.86	107.41	102.55
6	LB	501	GDP	C8-N7-C5	2.85	107.40	102.55
6	DD	501	GDP	C8-N7-C5	2.85	107.40	102.55
6	BB	501	GDP	C8-N7-C5	2.85	107.40	102.55
7	DF	502	TA1	O09-C21-C24	2.75	114.57	110.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	BB	502	TA1	O09-C21-C24	2.75	114.57	110.02
7	MD	502	TA1	O09-C21-C24	2.74	114.57	110.02
7	LF	502	TA1	O09-C21-C24	2.74	114.56	110.02
7	AD	502	TA1	O09-C21-C24	2.74	114.56	110.02
7	FD	502	TA1	O09-C21-C24	2.74	114.56	110.02
7	GB	502	TA1	O09-C21-C24	2.74	114.56	110.02
7	MF	502	TA1	O09-C21-C24	2.74	114.56	110.02
7	KB	502	TA1	O09-C21-C24	2.74	114.55	110.02
7	GD	502	TA1	O09-C21-C24	2.74	114.55	110.02
7	EF	502	TA1	O09-C21-C24	2.74	114.55	110.02
7	GF	502	TA1	O09-C21-C24	2.74	114.55	110.02
7	KD	502	TA1	O09-C21-C24	2.73	114.55	110.02
7	JB	502	TA1	O09-C21-C24	2.73	114.55	110.02
7	JD	502	TA1	O09-C21-C24	2.73	114.54	110.02
7	AB	502	TA1	O09-C21-C24	2.73	114.54	110.02
7	MB	502	TA1	O09-C21-C24	2.73	114.54	110.02
7	ID	502	TA1	O09-C21-C24	2.73	114.54	110.02
7	LB	502	TA1	O09-C21-C24	2.73	114.54	110.02
7	CB	502	TA1	O09-C21-C24	2.73	114.54	110.02
7	NB	502	TA1	O09-C21-C24	2.73	114.54	110.02
7	NF	502	TA1	O09-C21-C24	2.73	114.53	110.02
7	ND	502	TA1	O09-C21-C24	2.72	114.53	110.02
7	HF	502	TA1	O09-C21-C24	2.72	114.53	110.02
7	IB	502	TA1	O09-C21-C24	2.72	114.53	110.02
7	LD	502	TA1	O09-C21-C24	2.72	114.53	110.02
7	ED	502	TA1	O09-C21-C24	2.72	114.53	110.02
7	FB	502	TA1	O09-C21-C24	2.72	114.53	110.02
7	BF	502	TA1	O09-C21-C24	2.72	114.53	110.02
7	FF	502	TA1	O09-C21-C24	2.72	114.53	110.02
7	IF	502	TA1	O09-C21-C24	2.72	114.52	110.02
7	CF	502	TA1	O09-C21-C24	2.72	114.52	110.02
7	AF	502	TA1	O09-C21-C24	2.72	114.52	110.02
7	BD	502	TA1	O09-C21-C24	2.71	114.52	110.02
7	DB	502	TA1	O09-C21-C24	2.71	114.51	110.02
7	HB	502	TA1	O09-C21-C24	2.71	114.51	110.02
7	CD	502	TA1	O09-C21-C24	2.71	114.51	110.02
7	HD	502	TA1	O09-C21-C24	2.70	114.50	110.02
7	JF	502	TA1	O09-C21-C24	2.70	114.50	110.02
7	EB	502	TA1	O09-C21-C24	2.70	114.50	110.02
7	KF	502	TA1	O09-C21-C24	2.70	114.49	110.02
7	DD	502	TA1	O09-C21-C24	2.69	114.47	110.02
7	KF	502	TA1	C02-O02-C03	2.58	122.51	117.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	ND	502	TA1	C02-O02-C03	2.58	122.51	117.80
7	JB	502	TA1	C02-O02-C03	2.58	122.51	117.80
7	AF	502	TA1	C02-O02-C03	2.58	122.51	117.80
7	GD	502	TA1	C02-O02-C03	2.58	122.50	117.80
7	GF	502	TA1	C02-O02-C03	2.58	122.50	117.80
7	MB	502	TA1	C02-O02-C03	2.58	122.50	117.80
7	CD	502	TA1	C02-O02-C03	2.57	122.50	117.80
7	CF	502	TA1	C02-O02-C03	2.57	122.50	117.80
7	KD	502	TA1	C02-O02-C03	2.57	122.50	117.80
7	BD	502	TA1	C02-O02-C03	2.57	122.50	117.80
7	MD	502	TA1	C02-O02-C03	2.57	122.49	117.80
7	FF	502	TA1	C02-O02-C03	2.57	122.49	117.80
7	IB	502	TA1	C02-O02-C03	2.57	122.49	117.80
7	DD	502	TA1	C02-O02-C03	2.57	122.49	117.80
7	DF	502	TA1	C02-O02-C03	2.57	122.49	117.80
7	MF	502	TA1	C02-O02-C03	2.56	122.48	117.80
7	HD	502	TA1	C02-O02-C03	2.56	122.48	117.80
7	CB	502	TA1	C02-O02-C03	2.56	122.48	117.80
7	NF	502	TA1	C02-O02-C03	2.56	122.48	117.80
7	LB	502	TA1	C02-O02-C03	2.56	122.48	117.80
7	BB	502	TA1	C02-O02-C03	2.56	122.48	117.80
7	EB	502	TA1	C02-O02-C03	2.56	122.48	117.80
7	AB	502	TA1	C02-O02-C03	2.56	122.47	117.80
7	BF	502	TA1	C02-O02-C03	2.56	122.47	117.80
7	LD	502	TA1	C02-O02-C03	2.56	122.47	117.80
7	HF	502	TA1	C02-O02-C03	2.56	122.47	117.80
7	EF	502	TA1	C02-O02-C03	2.55	122.47	117.80
7	DB	502	TA1	C02-O02-C03	2.55	122.46	117.80
7	LF	502	TA1	C02-O02-C03	2.55	122.46	117.80
7	KB	502	TA1	C02-O02-C03	2.55	122.46	117.80
7	ID	502	TA1	C02-O02-C03	2.55	122.45	117.80
7	FB	502	TA1	C02-O02-C03	2.55	122.45	117.80
7	IF	502	TA1	C02-O02-C03	2.54	122.45	117.80
7	JD	502	TA1	C02-O02-C03	2.54	122.44	117.80
7	NB	502	TA1	C02-O02-C03	2.54	122.44	117.80
7	ED	502	TA1	C02-O02-C03	2.54	122.44	117.80
7	GB	502	TA1	C02-O02-C03	2.54	122.44	117.80
7	FD	502	TA1	C02-O02-C03	2.54	122.44	117.80
7	JF	502	TA1	C02-O02-C03	2.54	122.44	117.80
7	AD	502	TA1	C02-O02-C03	2.53	122.43	117.80
7	HB	502	TA1	C02-O02-C03	2.53	122.43	117.80
7	CB	502	TA1	C19-C18-C20	2.43	112.84	106.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	JF	502	TA1	C19-C18-C20	2.43	112.84	106.56
7	JB	502	TA1	C19-C18-C20	2.42	112.83	106.56
7	DB	502	TA1	C19-C18-C20	2.42	112.83	106.56
7	LB	502	TA1	C19-C18-C20	2.42	112.83	106.56
7	HB	502	TA1	C19-C18-C20	2.42	112.83	106.56
7	BF	502	TA1	C19-C18-C20	2.42	112.83	106.56
7	FB	502	TA1	C19-C18-C20	2.42	112.83	106.56
7	DD	502	TA1	C19-C18-C20	2.42	112.83	106.56
7	HF	502	TA1	C19-C18-C20	2.42	112.83	106.56
7	MD	502	TA1	C19-C18-C20	2.42	112.82	106.56
7	IB	502	TA1	C19-C18-C20	2.42	112.82	106.56
7	EF	502	TA1	C19-C18-C20	2.41	112.81	106.56
7	FD	502	TA1	C19-C18-C20	2.41	112.81	106.56
7	IF	502	TA1	C19-C18-C20	2.41	112.81	106.56
7	GB	502	TA1	C19-C18-C20	2.41	112.81	106.56
7	LD	502	TA1	C19-C18-C20	2.41	112.81	106.56
7	CF	502	TA1	C19-C18-C20	2.41	112.80	106.56
7	HD	502	TA1	C19-C18-C20	2.41	112.80	106.56
7	AD	502	TA1	C19-C18-C20	2.41	112.80	106.56
7	MB	502	TA1	C19-C18-C20	2.41	112.80	106.56
7	BB	502	TA1	C19-C18-C20	2.41	112.80	106.56
7	LF	502	TA1	C19-C18-C20	2.41	112.80	106.56
7	NB	502	TA1	C19-C18-C20	2.41	112.80	106.56
7	BD	502	TA1	C19-C18-C20	2.41	112.79	106.56
7	JD	502	TA1	C19-C18-C20	2.41	112.79	106.56
7	EB	502	TA1	C19-C18-C20	2.41	112.79	106.56
7	GD	502	TA1	C19-C18-C20	2.41	112.79	106.56
7	AF	502	TA1	C19-C18-C20	2.41	112.78	106.56
7	ED	502	TA1	C19-C18-C20	2.40	112.78	106.56
7	KB	502	TA1	C19-C18-C20	2.40	112.78	106.56
7	ND	502	TA1	C19-C18-C20	2.40	112.78	106.56
7	AB	502	TA1	C19-C18-C20	2.40	112.77	106.56
7	FF	502	TA1	C19-C18-C20	2.40	112.77	106.56
7	GF	502	TA1	C19-C18-C20	2.40	112.77	106.56
7	CD	502	TA1	C19-C18-C20	2.40	112.77	106.56
7	KF	502	TA1	C19-C18-C20	2.40	112.77	106.56
7	DF	502	TA1	C19-C18-C20	2.40	112.76	106.56
7	MF	502	TA1	C19-C18-C20	2.39	112.76	106.56
7	NF	502	TA1	C19-C18-C20	2.39	112.75	106.56
7	ID	502	TA1	C19-C18-C20	2.39	112.75	106.56
7	KD	502	TA1	C19-C18-C20	2.39	112.75	106.56
7	KB	502	TA1	C45-C24-C21	2.22	126.06	119.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	DD	502	TA1	C45-C24-C21	2.22	126.06	119.08
7	BD	502	TA1	C47-C45-C24	2.22	121.62	112.78
7	KF	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	FF	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	HF	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	GB	502	TA1	C47-C45-C24	2.21	121.61	112.78
7	BB	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	DB	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	BF	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	CD	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	NF	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	NB	502	TA1	C45-C24-C21	2.21	126.04	119.08
7	MB	502	TA1	C47-C45-C24	2.21	121.61	112.78
7	MF	502	TA1	C47-C45-C24	2.21	121.60	112.78
7	CF	502	TA1	C45-C24-C21	2.21	126.03	119.08
7	AD	502	TA1	C45-C24-C21	2.21	126.03	119.08
7	HD	502	TA1	C45-C24-C21	2.21	126.03	119.08
7	CB	502	TA1	C45-C24-C21	2.21	126.03	119.08
7	IB	502	TA1	C45-C24-C21	2.21	126.03	119.08
7	FD	502	TA1	C47-C45-C24	2.21	121.59	112.78
7	JD	502	TA1	C47-C45-C24	2.21	121.59	112.78
7	FB	502	TA1	C45-C24-C21	2.21	126.02	119.08
7	CB	502	TA1	C47-C45-C24	2.21	121.59	112.78
7	IF	502	TA1	C47-C45-C24	2.21	121.59	112.78
7	JF	502	TA1	C47-C45-C24	2.21	121.59	112.78
7	KD	502	TA1	C45-C24-C21	2.21	126.02	119.08
7	JB	502	TA1	C45-C24-C21	2.21	126.02	119.08
7	ND	502	TA1	C45-C24-C21	2.21	126.02	119.08
7	LF	502	TA1	C47-C45-C24	2.21	121.58	112.78
7	AF	502	TA1	C47-C45-C24	2.21	121.58	112.78
7	MD	502	TA1	C47-C45-C24	2.21	121.58	112.78
7	EF	502	TA1	C47-C45-C24	2.20	121.58	112.78
7	ID	502	TA1	C45-C24-C21	2.20	126.01	119.08
7	IF	502	TA1	C45-C24-C21	2.20	126.01	119.08
7	JF	502	TA1	C45-C24-C21	2.20	126.01	119.08
7	AB	502	TA1	C47-C45-C24	2.20	121.58	112.78
7	ED	502	TA1	C45-C24-C21	2.20	126.01	119.08
7	ED	502	TA1	C47-C45-C24	2.20	121.57	112.78
7	FB	502	TA1	C47-C45-C24	2.20	121.57	112.78
7	GB	502	TA1	C45-C24-C21	2.20	126.01	119.08
7	EB	502	TA1	C45-C24-C21	2.20	126.00	119.08
7	JD	502	TA1	C45-C24-C21	2.20	126.00	119.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	LB	502	TA1	C45-C24-C21	2.20	126.00	119.08
7	KF	502	TA1	C47-C45-C24	2.20	121.57	112.78
7	DF	502	TA1	C45-C24-C21	2.20	126.00	119.08
7	GD	502	TA1	C47-C45-C24	2.20	121.57	112.78
7	NB	502	TA1	C47-C45-C24	2.20	121.57	112.78
7	GF	502	TA1	C45-C24-C21	2.20	126.00	119.08
7	HB	502	TA1	C45-C24-C21	2.20	126.00	119.08
7	HB	502	TA1	C47-C45-C24	2.20	121.57	112.78
7	EB	502	TA1	C47-C45-C24	2.20	121.56	112.78
7	HF	502	TA1	C47-C45-C24	2.20	121.56	112.78
7	ND	502	TA1	C47-C45-C24	2.20	121.56	112.78
7	AF	502	TA1	C45-C24-C21	2.20	126.00	119.08
7	CD	502	TA1	C47-C45-C24	2.20	121.56	112.78
7	DB	502	TA1	C47-C45-C24	2.20	121.56	112.78
7	ID	502	TA1	C47-C45-C24	2.20	121.56	112.78
7	GD	502	TA1	C45-C24-C21	2.20	125.99	119.08
7	LD	502	TA1	C45-C24-C21	2.20	125.99	119.08
7	JB	502	TA1	C47-C45-C24	2.20	121.56	112.78
7	AB	502	TA1	C45-C24-C21	2.20	125.99	119.08
7	DD	502	TA1	C47-C45-C24	2.20	121.55	112.78
7	DF	502	TA1	C47-C45-C24	2.20	121.55	112.78
7	GF	502	TA1	C47-C45-C24	2.20	121.55	112.78
7	KB	502	TA1	C47-C45-C24	2.20	121.55	112.78
7	LD	502	TA1	C47-C45-C24	2.20	121.55	112.78
7	EF	502	TA1	C45-C24-C21	2.20	125.99	119.08
7	BF	502	TA1	C47-C45-C24	2.20	121.55	112.78
7	KD	502	TA1	C47-C45-C24	2.20	121.54	112.78
7	LF	502	TA1	C45-C24-C21	2.20	125.98	119.08
7	HD	502	TA1	C47-C45-C24	2.20	121.54	112.78
7	BD	502	TA1	C45-C24-C21	2.20	125.98	119.08
7	IB	502	TA1	C47-C45-C24	2.19	121.54	112.78
7	CF	502	TA1	C47-C45-C24	2.19	121.54	112.78
7	NF	502	TA1	C47-C45-C24	2.19	121.54	112.78
7	MF	502	TA1	C45-C24-C21	2.19	125.98	119.08
7	LB	502	TA1	C47-C45-C24	2.19	121.53	112.78
7	AD	502	TA1	C47-C45-C24	2.19	121.53	112.78
7	BB	502	TA1	C47-C45-C24	2.19	121.53	112.78
7	FD	502	TA1	C45-C24-C21	2.19	125.97	119.08
7	FF	502	TA1	C47-C45-C24	2.19	121.52	112.78
7	MD	502	TA1	C45-C24-C21	2.19	125.97	119.08
7	MB	502	TA1	C45-C24-C21	2.19	125.96	119.08
6	EB	501	GDP	C5-C6-N1	2.13	118.12	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	AB	501	GDP	C5-C6-N1	2.12	118.12	114.07
6	FD	501	GDP	C5-C6-N1	2.12	118.12	114.07
6	KB	501	GDP	C5-C6-N1	2.12	118.11	114.07
6	DF	501	GDP	C5-C6-N1	2.12	118.11	114.07
6	MB	501	GDP	C5-C6-N1	2.11	118.10	114.07
6	BB	501	GDP	C5-C6-N1	2.11	118.10	114.07
6	EF	501	GDP	C5-C6-N1	2.11	118.10	114.07
6	HD	501	GDP	C5-C6-N1	2.11	118.09	114.07
6	DD	501	GDP	C5-C6-N1	2.11	118.09	114.07
6	GD	501	GDP	C5-C6-N1	2.11	118.09	114.07
4	BE	501	GTP	O6-C6-C5	-2.11	120.14	124.32
6	HF	501	GDP	C5-C6-N1	2.11	118.09	114.07
6	LF	501	GDP	C5-C6-N1	2.11	118.09	114.07
6	MF	501	GDP	C5-C6-N1	2.11	118.09	114.07
6	IF	501	GDP	C5-C6-N1	2.10	118.08	114.07
6	CF	501	GDP	C5-C6-N1	2.10	118.08	114.07
6	LB	501	GDP	C5-C6-N1	2.10	118.08	114.07
6	CB	501	GDP	C5-C6-N1	2.10	118.08	114.07
4	MC	501	GTP	O6-C6-C5	-2.10	120.16	124.32
6	ND	501	GDP	C5-C6-N1	2.10	118.08	114.07
4	IA	501	GTP	O6-C6-C5	-2.10	120.16	124.32
6	CD	501	GDP	C5-C6-N1	2.10	118.08	114.07
6	IB	501	GDP	C5-C6-N1	2.10	118.08	114.07
6	KF	501	GDP	C5-C6-N1	2.10	118.08	114.07
4	AC	501	GTP	O6-C6-C5	-2.10	120.16	124.32
6	BF	501	GDP	C5-C6-N1	2.10	118.07	114.07
6	AF	501	GDP	C5-C6-N1	2.10	118.07	114.07
6	DB	501	GDP	C5-C6-N1	2.10	118.07	114.07
4	KC	501	GTP	O6-C6-C5	-2.10	120.16	124.32
4	JC	501	GTP	O6-C6-C5	-2.10	120.17	124.32
6	MD	501	GDP	C5-C6-N1	2.10	118.07	114.07
6	NF	501	GDP	C5-C6-N1	2.09	118.07	114.07
4	GE	501	GTP	O6-C6-C5	-2.09	120.17	124.32
4	LC	501	GTP	O6-C6-C5	-2.09	120.17	124.32
4	EA	501	GTP	O6-C6-C5	-2.09	120.17	124.32
6	ID	501	GDP	C5-C6-N1	2.09	118.06	114.07
7	AB	502	TA1	C01-C43-C26	2.09	118.83	114.98
6	JD	501	GDP	C5-C6-N1	2.09	118.06	114.07
6	KD	501	GDP	C5-C6-N1	2.09	118.06	114.07
6	JF	501	GDP	C5-C6-N1	2.09	118.06	114.07
4	MA	501	GTP	O6-C6-C5	-2.09	120.18	124.32
4	NE	501	GTP	O6-C6-C5	-2.09	120.18	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	DC	501	GTP	O6-C6-C5	-2.09	120.18	124.32
6	LD	501	GDP	C5-C6-N1	2.09	118.05	114.07
6	ED	501	GDP	C5-C6-N1	2.09	118.05	114.07
6	GB	501	GDP	C5-C6-N1	2.09	118.05	114.07
6	NB	501	GDP	C5-C6-N1	2.09	118.05	114.07
4	FA	501	GTP	O6-C6-C5	-2.09	120.19	124.32
4	BA	501	GTP	O6-C6-C5	-2.09	120.19	124.32
4	JE	501	GTP	O6-C6-C5	-2.09	120.19	124.32
6	BD	501	GDP	C5-C6-N1	2.08	118.05	114.07
6	HB	501	GDP	C5-C6-N1	2.08	118.05	114.07
4	DA	501	GTP	O6-C6-C5	-2.08	120.19	124.32
7	JB	502	TA1	C01-C43-C26	2.08	118.82	114.98
4	IC	501	GTP	O6-C6-C5	-2.08	120.19	124.32
6	FF	501	GDP	C5-C6-N1	2.08	118.04	114.07
6	GF	501	GDP	C5-C6-N1	2.08	118.04	114.07
4	NC	501	GTP	O6-C6-C5	-2.08	120.19	124.32
4	EC	501	GTP	O6-C6-C5	-2.08	120.19	124.32
7	CF	502	TA1	C01-C43-C26	2.08	118.81	114.98
7	HF	502	TA1	C01-C43-C26	2.08	118.81	114.98
4	CE	501	GTP	O6-C6-C5	-2.08	120.20	124.32
4	HE	501	GTP	O6-C6-C5	-2.08	120.20	124.32
4	FC	501	GTP	O6-C6-C5	-2.08	120.20	124.32
6	FB	501	GDP	C5-C6-N1	2.08	118.03	114.07
4	HA	501	GTP	O6-C6-C5	-2.08	120.20	124.32
7	BD	502	TA1	C01-C43-C26	2.08	118.81	114.98
7	JF	502	TA1	C01-C43-C26	2.08	118.81	114.98
7	KD	502	TA1	C01-C43-C26	2.08	118.81	114.98
4	LE	501	GTP	O6-C6-C5	-2.08	120.20	124.32
4	ME	501	GTP	O6-C6-C5	-2.08	120.20	124.32
6	AD	501	GDP	C5-C6-N1	2.08	118.03	114.07
6	JB	501	GDP	C5-C6-N1	2.08	118.03	114.07
4	GC	501	GTP	O6-C6-C5	-2.08	120.20	124.32
7	GD	502	TA1	C01-C43-C26	2.08	118.80	114.98
4	CA	501	GTP	O6-C6-C5	-2.07	120.21	124.32
4	HC	501	GTP	O6-C6-C5	-2.07	120.21	124.32
7	HB	502	TA1	C01-C43-C26	2.07	118.80	114.98
7	MB	502	TA1	C01-C43-C26	2.07	118.80	114.98
4	EE	501	GTP	O6-C6-C5	-2.07	120.21	124.32
4	DE	501	GTP	O6-C6-C5	-2.07	120.21	124.32
4	KE	501	GTP	O6-C6-C5	-2.07	120.21	124.32
4	FE	501	GTP	O6-C6-C5	-2.07	120.21	124.32
7	MD	502	TA1	C01-C43-C26	2.07	118.80	114.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	LD	502	TA1	C01-C43-C26	2.07	118.79	114.98
4	AE	501	GTP	O6-C6-C5	-2.07	120.22	124.32
4	IE	501	GTP	O6-C6-C5	-2.07	120.22	124.32
4	AA	501	GTP	O6-C6-C5	-2.07	120.22	124.32
4	CC	501	GTP	O6-C6-C5	-2.07	120.22	124.32
7	DF	502	TA1	C01-C43-C26	2.07	118.79	114.98
7	LB	502	TA1	C01-C43-C26	2.07	118.79	114.98
4	JA	501	GTP	O6-C6-C5	-2.07	120.22	124.32
4	BC	501	GTP	O6-C6-C5	-2.06	120.23	124.32
4	KA	501	GTP	O6-C6-C5	-2.06	120.23	124.32
7	KF	502	TA1	C01-C43-C26	2.06	118.78	114.98
7	LF	502	TA1	C01-C43-C26	2.06	118.78	114.98
4	GA	501	GTP	O6-C6-C5	-2.06	120.23	124.32
4	NA	501	GTP	O6-C6-C5	-2.06	120.23	124.32
7	KB	502	TA1	C01-C43-C26	2.06	118.78	114.98
7	BB	502	TA1	C01-C43-C26	2.06	118.78	114.98
7	CD	502	TA1	C01-C43-C26	2.06	118.78	114.98
7	IB	502	TA1	C01-C43-C26	2.06	118.78	114.98
7	NF	502	TA1	C01-C43-C26	2.06	118.77	114.98
7	EB	502	TA1	C01-C43-C26	2.06	118.77	114.98
7	HD	502	TA1	C01-C43-C26	2.06	118.77	114.98
7	CB	502	TA1	C01-C43-C26	2.06	118.77	114.98
7	ID	502	TA1	C01-C43-C26	2.05	118.77	114.98
7	DD	502	TA1	C01-C43-C26	2.05	118.76	114.98
7	MF	502	TA1	C01-C43-C26	2.05	118.76	114.98
4	LA	501	GTP	O6-C6-C5	-2.05	120.25	124.32
7	BF	502	TA1	C01-C43-C26	2.05	118.76	114.98
7	FB	502	TA1	C01-C43-C26	2.05	118.76	114.98
7	AD	502	TA1	C01-C43-C26	2.05	118.76	114.98
7	DB	502	TA1	C01-C43-C26	2.05	118.76	114.98
7	GB	502	TA1	C01-C43-C26	2.05	118.76	114.98
7	IF	502	TA1	C01-C43-C26	2.05	118.76	114.98
7	ND	502	TA1	C01-C43-C26	2.05	118.75	114.98
7	ED	502	TA1	C01-C43-C26	2.05	118.75	114.98
7	EF	502	TA1	C01-C43-C26	2.05	118.75	114.98
7	JD	502	TA1	C01-C43-C26	2.05	118.75	114.98
7	AB	502	TA1	C16-C15-C11	-2.04	116.85	119.63
7	AF	502	TA1	C01-C43-C26	2.04	118.74	114.98
7	GF	502	TA1	C16-C15-C11	-2.04	116.86	119.63
7	HF	502	TA1	C16-C15-C11	-2.04	116.86	119.63
7	FF	502	TA1	C01-C43-C26	2.04	118.74	114.98
7	FD	502	TA1	C01-C43-C26	2.04	118.73	114.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	GF	502	TA1	C01-C43-C26	2.04	118.73	114.98
7	BD	502	TA1	C16-C15-C11	-2.03	116.87	119.63
7	NB	502	TA1	C01-C43-C26	2.03	118.72	114.98
7	AF	502	TA1	C16-C15-C11	-2.03	116.87	119.63
7	ID	502	TA1	C16-C15-C11	-2.03	116.88	119.63
7	KD	502	TA1	C16-C15-C11	-2.03	116.88	119.63
7	BF	502	TA1	C16-C15-C11	-2.03	116.88	119.63
7	LB	502	TA1	C16-C15-C11	-2.03	116.88	119.63
7	EB	502	TA1	C16-C15-C11	-2.02	116.88	119.63
7	DD	502	TA1	C16-C15-C11	-2.02	116.88	119.63
7	KF	502	TA1	C16-C15-C11	-2.02	116.88	119.63
7	LF	502	TA1	C16-C15-C11	-2.02	116.88	119.63
7	NF	502	TA1	C16-C15-C11	-2.02	116.89	119.63
7	AD	502	TA1	C16-C15-C11	-2.02	116.89	119.63
7	DF	502	TA1	C16-C15-C11	-2.02	116.89	119.63
7	FB	502	TA1	C16-C15-C11	-2.02	116.89	119.63
7	JD	502	TA1	C16-C15-C11	-2.01	116.90	119.63
7	EF	502	TA1	C16-C15-C11	-2.01	116.90	119.63
7	JB	502	TA1	C16-C15-C11	-2.01	116.90	119.63
7	FD	502	TA1	C16-C15-C11	-2.01	116.90	119.63
7	NB	502	TA1	C16-C15-C11	-2.01	116.91	119.63
7	JF	502	TA1	C16-C15-C11	-2.00	116.91	119.63
7	KB	502	TA1	C16-C15-C11	-2.00	116.91	119.63
7	MD	502	TA1	C16-C15-C11	-2.00	116.91	119.63
7	ND	502	TA1	C16-C15-C11	-2.00	116.91	119.63

There are no chirality outliers.

All (714) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	AA	501	GTP	C5'-O5'-PA-O3A
4	AA	501	GTP	C5'-O5'-PA-O1A
4	AC	501	GTP	C5'-O5'-PA-O3A
4	AC	501	GTP	C5'-O5'-PA-O1A
4	AE	501	GTP	C5'-O5'-PA-O3A
4	AE	501	GTP	C5'-O5'-PA-O1A
4	BA	501	GTP	C5'-O5'-PA-O3A
4	BA	501	GTP	C5'-O5'-PA-O1A
4	BC	501	GTP	C5'-O5'-PA-O3A
4	BC	501	GTP	C5'-O5'-PA-O1A
4	BE	501	GTP	C5'-O5'-PA-O3A
4	BE	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
4	CA	501	GTP	C5'-O5'-PA-O3A
4	CA	501	GTP	C5'-O5'-PA-O1A
4	CC	501	GTP	C5'-O5'-PA-O3A
4	CC	501	GTP	C5'-O5'-PA-O1A
4	CE	501	GTP	C5'-O5'-PA-O3A
4	CE	501	GTP	C5'-O5'-PA-O1A
4	DA	501	GTP	C5'-O5'-PA-O3A
4	DA	501	GTP	C5'-O5'-PA-O1A
4	DC	501	GTP	C5'-O5'-PA-O3A
4	DC	501	GTP	C5'-O5'-PA-O1A
4	DE	501	GTP	C5'-O5'-PA-O3A
4	DE	501	GTP	C5'-O5'-PA-O1A
4	EA	501	GTP	C5'-O5'-PA-O3A
4	EA	501	GTP	C5'-O5'-PA-O1A
4	EC	501	GTP	C5'-O5'-PA-O3A
4	EC	501	GTP	C5'-O5'-PA-O1A
4	EE	501	GTP	C5'-O5'-PA-O3A
4	EE	501	GTP	C5'-O5'-PA-O1A
4	FA	501	GTP	C5'-O5'-PA-O3A
4	FA	501	GTP	C5'-O5'-PA-O1A
4	FC	501	GTP	C5'-O5'-PA-O3A
4	FC	501	GTP	C5'-O5'-PA-O1A
4	FE	501	GTP	C5'-O5'-PA-O3A
4	FE	501	GTP	C5'-O5'-PA-O1A
4	GA	501	GTP	C5'-O5'-PA-O3A
4	GA	501	GTP	C5'-O5'-PA-O1A
4	GC	501	GTP	C5'-O5'-PA-O3A
4	GC	501	GTP	C5'-O5'-PA-O1A
4	GE	501	GTP	C5'-O5'-PA-O3A
4	GE	501	GTP	C5'-O5'-PA-O1A
4	HA	501	GTP	C5'-O5'-PA-O3A
4	HA	501	GTP	C5'-O5'-PA-O1A
4	HC	501	GTP	C5'-O5'-PA-O3A
4	HC	501	GTP	C5'-O5'-PA-O1A
4	HE	501	GTP	C5'-O5'-PA-O3A
4	HE	501	GTP	C5'-O5'-PA-O1A
4	IA	501	GTP	C5'-O5'-PA-O3A
4	IA	501	GTP	C5'-O5'-PA-O1A
4	IC	501	GTP	C5'-O5'-PA-O3A
4	IC	501	GTP	C5'-O5'-PA-O1A
4	IE	501	GTP	C5'-O5'-PA-O3A
4	IE	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
4	JA	501	GTP	C5'-O5'-PA-O3A
4	JA	501	GTP	C5'-O5'-PA-O1A
4	JC	501	GTP	C5'-O5'-PA-O3A
4	JC	501	GTP	C5'-O5'-PA-O1A
4	JE	501	GTP	C5'-O5'-PA-O3A
4	JE	501	GTP	C5'-O5'-PA-O1A
4	KA	501	GTP	C5'-O5'-PA-O3A
4	KA	501	GTP	C5'-O5'-PA-O1A
4	KC	501	GTP	C5'-O5'-PA-O3A
4	KC	501	GTP	C5'-O5'-PA-O1A
4	KE	501	GTP	C5'-O5'-PA-O3A
4	KE	501	GTP	C5'-O5'-PA-O1A
4	LA	501	GTP	C5'-O5'-PA-O3A
4	LA	501	GTP	C5'-O5'-PA-O1A
4	LC	501	GTP	C5'-O5'-PA-O3A
4	LC	501	GTP	C5'-O5'-PA-O1A
4	LE	501	GTP	C5'-O5'-PA-O3A
4	LE	501	GTP	C5'-O5'-PA-O1A
4	MA	501	GTP	C5'-O5'-PA-O3A
4	MA	501	GTP	C5'-O5'-PA-O1A
4	MC	501	GTP	C5'-O5'-PA-O3A
4	MC	501	GTP	C5'-O5'-PA-O1A
4	ME	501	GTP	C5'-O5'-PA-O3A
4	ME	501	GTP	C5'-O5'-PA-O1A
4	NA	501	GTP	C5'-O5'-PA-O3A
4	NA	501	GTP	C5'-O5'-PA-O1A
4	NC	501	GTP	C5'-O5'-PA-O3A
4	NC	501	GTP	C5'-O5'-PA-O1A
4	NE	501	GTP	C5'-O5'-PA-O3A
4	NE	501	GTP	C5'-O5'-PA-O1A
6	AB	501	GDP	C5'-O5'-PA-O3A
6	AB	501	GDP	C5'-O5'-PA-O1A
6	AB	501	GDP	C5'-O5'-PA-O2A
6	AD	501	GDP	C5'-O5'-PA-O3A
6	AD	501	GDP	C5'-O5'-PA-O1A
6	AD	501	GDP	C5'-O5'-PA-O2A
6	AF	501	GDP	C5'-O5'-PA-O3A
6	AF	501	GDP	C5'-O5'-PA-O1A
6	AF	501	GDP	C5'-O5'-PA-O2A
6	BB	501	GDP	C5'-O5'-PA-O3A
6	BB	501	GDP	C5'-O5'-PA-O1A
6	BB	501	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
6	BD	501	GDP	C5'-O5'-PA-O3A
6	BD	501	GDP	C5'-O5'-PA-O1A
6	BD	501	GDP	C5'-O5'-PA-O2A
6	BF	501	GDP	C5'-O5'-PA-O3A
6	BF	501	GDP	C5'-O5'-PA-O1A
6	BF	501	GDP	C5'-O5'-PA-O2A
6	CB	501	GDP	C5'-O5'-PA-O3A
6	CB	501	GDP	C5'-O5'-PA-O1A
6	CB	501	GDP	C5'-O5'-PA-O2A
6	CD	501	GDP	C5'-O5'-PA-O3A
6	CD	501	GDP	C5'-O5'-PA-O1A
6	CD	501	GDP	C5'-O5'-PA-O2A
6	CF	501	GDP	C5'-O5'-PA-O3A
6	CF	501	GDP	C5'-O5'-PA-O1A
6	CF	501	GDP	C5'-O5'-PA-O2A
6	DB	501	GDP	C5'-O5'-PA-O3A
6	DB	501	GDP	C5'-O5'-PA-O1A
6	DB	501	GDP	C5'-O5'-PA-O2A
6	DD	501	GDP	C5'-O5'-PA-O3A
6	DD	501	GDP	C5'-O5'-PA-O1A
6	DD	501	GDP	C5'-O5'-PA-O2A
6	DF	501	GDP	C5'-O5'-PA-O3A
6	DF	501	GDP	C5'-O5'-PA-O1A
6	DF	501	GDP	C5'-O5'-PA-O2A
6	EB	501	GDP	C5'-O5'-PA-O3A
6	EB	501	GDP	C5'-O5'-PA-O1A
6	EB	501	GDP	C5'-O5'-PA-O2A
6	ED	501	GDP	C5'-O5'-PA-O3A
6	ED	501	GDP	C5'-O5'-PA-O1A
6	ED	501	GDP	C5'-O5'-PA-O2A
6	EF	501	GDP	C5'-O5'-PA-O3A
6	EF	501	GDP	C5'-O5'-PA-O1A
6	EF	501	GDP	C5'-O5'-PA-O2A
6	FB	501	GDP	C5'-O5'-PA-O3A
6	FB	501	GDP	C5'-O5'-PA-O1A
6	FB	501	GDP	C5'-O5'-PA-O2A
6	FD	501	GDP	C5'-O5'-PA-O3A
6	FD	501	GDP	C5'-O5'-PA-O1A
6	FD	501	GDP	C5'-O5'-PA-O2A
6	FF	501	GDP	C5'-O5'-PA-O3A
6	FF	501	GDP	C5'-O5'-PA-O1A
6	FF	501	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
6	GB	501	GDP	C5'-O5'-PA-O3A
6	GB	501	GDP	C5'-O5'-PA-O1A
6	GB	501	GDP	C5'-O5'-PA-O2A
6	GD	501	GDP	C5'-O5'-PA-O3A
6	GD	501	GDP	C5'-O5'-PA-O1A
6	GD	501	GDP	C5'-O5'-PA-O2A
6	GF	501	GDP	C5'-O5'-PA-O3A
6	GF	501	GDP	C5'-O5'-PA-O1A
6	GF	501	GDP	C5'-O5'-PA-O2A
6	HB	501	GDP	C5'-O5'-PA-O3A
6	HB	501	GDP	C5'-O5'-PA-O1A
6	HB	501	GDP	C5'-O5'-PA-O2A
6	HD	501	GDP	C5'-O5'-PA-O3A
6	HD	501	GDP	C5'-O5'-PA-O1A
6	HD	501	GDP	C5'-O5'-PA-O2A
6	HF	501	GDP	C5'-O5'-PA-O3A
6	HF	501	GDP	C5'-O5'-PA-O1A
6	HF	501	GDP	C5'-O5'-PA-O2A
6	IB	501	GDP	C5'-O5'-PA-O3A
6	IB	501	GDP	C5'-O5'-PA-O1A
6	IB	501	GDP	C5'-O5'-PA-O2A
6	ID	501	GDP	C5'-O5'-PA-O3A
6	ID	501	GDP	C5'-O5'-PA-O1A
6	ID	501	GDP	C5'-O5'-PA-O2A
6	IF	501	GDP	C5'-O5'-PA-O3A
6	IF	501	GDP	C5'-O5'-PA-O1A
6	IF	501	GDP	C5'-O5'-PA-O2A
6	JB	501	GDP	C5'-O5'-PA-O3A
6	JB	501	GDP	C5'-O5'-PA-O1A
6	JB	501	GDP	C5'-O5'-PA-O2A
6	JD	501	GDP	C5'-O5'-PA-O3A
6	JD	501	GDP	C5'-O5'-PA-O1A
6	JD	501	GDP	C5'-O5'-PA-O2A
6	JF	501	GDP	C5'-O5'-PA-O3A
6	JF	501	GDP	C5'-O5'-PA-O1A
6	JF	501	GDP	C5'-O5'-PA-O2A
6	KB	501	GDP	C5'-O5'-PA-O3A
6	KB	501	GDP	C5'-O5'-PA-O1A
6	KB	501	GDP	C5'-O5'-PA-O2A
6	KD	501	GDP	C5'-O5'-PA-O3A
6	KD	501	GDP	C5'-O5'-PA-O1A
6	KD	501	GDP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
6	KF	501	GDP	C5'-O5'-PA-O3A
6	KF	501	GDP	C5'-O5'-PA-O1A
6	KF	501	GDP	C5'-O5'-PA-O2A
6	LB	501	GDP	C5'-O5'-PA-O3A
6	LB	501	GDP	C5'-O5'-PA-O1A
6	LB	501	GDP	C5'-O5'-PA-O2A
6	LD	501	GDP	C5'-O5'-PA-O3A
6	LD	501	GDP	C5'-O5'-PA-O1A
6	LD	501	GDP	C5'-O5'-PA-O2A
6	LF	501	GDP	C5'-O5'-PA-O3A
6	LF	501	GDP	C5'-O5'-PA-O1A
6	LF	501	GDP	C5'-O5'-PA-O2A
6	MB	501	GDP	C5'-O5'-PA-O3A
6	MB	501	GDP	C5'-O5'-PA-O1A
6	MB	501	GDP	C5'-O5'-PA-O2A
6	MD	501	GDP	C5'-O5'-PA-O3A
6	MD	501	GDP	C5'-O5'-PA-O1A
6	MD	501	GDP	C5'-O5'-PA-O2A
6	MF	501	GDP	C5'-O5'-PA-O3A
6	MF	501	GDP	C5'-O5'-PA-O1A
6	MF	501	GDP	C5'-O5'-PA-O2A
6	NB	501	GDP	C5'-O5'-PA-O3A
6	NB	501	GDP	C5'-O5'-PA-O1A
6	NB	501	GDP	C5'-O5'-PA-O2A
6	ND	501	GDP	C5'-O5'-PA-O3A
6	ND	501	GDP	C5'-O5'-PA-O1A
6	ND	501	GDP	C5'-O5'-PA-O2A
6	NF	501	GDP	C5'-O5'-PA-O3A
6	NF	501	GDP	C5'-O5'-PA-O1A
6	NF	501	GDP	C5'-O5'-PA-O2A
7	AB	502	TA1	C10-C11-O04-C12
7	AB	502	TA1	C14-C11-O04-C12
7	AB	502	TA1	C15-C11-O04-C12
7	AD	502	TA1	C10-C11-O04-C12
7	AD	502	TA1	C14-C11-O04-C12
7	AD	502	TA1	C15-C11-O04-C12
7	AF	502	TA1	C10-C11-O04-C12
7	AF	502	TA1	C14-C11-O04-C12
7	AF	502	TA1	C15-C11-O04-C12
7	BB	502	TA1	C10-C11-O04-C12
7	BB	502	TA1	C14-C11-O04-C12
7	BB	502	TA1	C15-C11-O04-C12

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Mol	Chain	Res	Type	Atoms
7	BD	502	TA1	C10-C11-O04-C12
7	BD	502	TA1	C14-C11-O04-C12
7	BD	502	TA1	C15-C11-O04-C12
7	BF	502	TA1	C10-C11-O04-C12
7	BF	502	TA1	C14-C11-O04-C12
7	BF	502	TA1	C15-C11-O04-C12
7	CB	502	TA1	C10-C11-O04-C12
7	CB	502	TA1	C14-C11-O04-C12
7	CB	502	TA1	C15-C11-O04-C12
7	CD	502	TA1	C10-C11-O04-C12
7	CD	502	TA1	C14-C11-O04-C12
7	CD	502	TA1	C15-C11-O04-C12
7	CF	502	TA1	C10-C11-O04-C12
7	CF	502	TA1	C14-C11-O04-C12
7	CF	502	TA1	C15-C11-O04-C12
7	DB	502	TA1	C10-C11-O04-C12
7	DB	502	TA1	C14-C11-O04-C12
7	DB	502	TA1	C15-C11-O04-C12
7	DD	502	TA1	C10-C11-O04-C12
7	DD	502	TA1	C14-C11-O04-C12
7	DD	502	TA1	C15-C11-O04-C12
7	DF	502	TA1	C10-C11-O04-C12
7	DF	502	TA1	C14-C11-O04-C12
7	DF	502	TA1	C15-C11-O04-C12
7	EB	502	TA1	C10-C11-O04-C12
7	EB	502	TA1	C14-C11-O04-C12
7	EB	502	TA1	C15-C11-O04-C12
7	ED	502	TA1	C10-C11-O04-C12
7	ED	502	TA1	C14-C11-O04-C12
7	ED	502	TA1	C15-C11-O04-C12
7	EF	502	TA1	C10-C11-O04-C12
7	EF	502	TA1	C14-C11-O04-C12
7	EF	502	TA1	C15-C11-O04-C12
7	FB	502	TA1	C10-C11-O04-C12
7	FB	502	TA1	C14-C11-O04-C12
7	FB	502	TA1	C15-C11-O04-C12
7	FD	502	TA1	C10-C11-O04-C12
7	FD	502	TA1	C14-C11-O04-C12
7	FD	502	TA1	C15-C11-O04-C12
7	FF	502	TA1	C10-C11-O04-C12
7	FF	502	TA1	C14-C11-O04-C12
7	FF	502	TA1	C15-C11-O04-C12

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Mol	Chain	Res	Type	Atoms
7	GB	502	TA1	C10-C11-O04-C12
7	GB	502	TA1	C14-C11-O04-C12
7	GB	502	TA1	C15-C11-O04-C12
7	GD	502	TA1	C10-C11-O04-C12
7	GD	502	TA1	C14-C11-O04-C12
7	GD	502	TA1	C15-C11-O04-C12
7	GF	502	TA1	C10-C11-O04-C12
7	GF	502	TA1	C14-C11-O04-C12
7	GF	502	TA1	C15-C11-O04-C12
7	HB	502	TA1	C10-C11-O04-C12
7	HB	502	TA1	C14-C11-O04-C12
7	HB	502	TA1	C15-C11-O04-C12
7	HD	502	TA1	C10-C11-O04-C12
7	HD	502	TA1	C14-C11-O04-C12
7	HD	502	TA1	C15-C11-O04-C12
7	HF	502	TA1	C10-C11-O04-C12
7	HF	502	TA1	C14-C11-O04-C12
7	HF	502	TA1	C15-C11-O04-C12
7	IB	502	TA1	C10-C11-O04-C12
7	IB	502	TA1	C14-C11-O04-C12
7	IB	502	TA1	C15-C11-O04-C12
7	ID	502	TA1	C10-C11-O04-C12
7	ID	502	TA1	C14-C11-O04-C12
7	ID	502	TA1	C15-C11-O04-C12
7	IF	502	TA1	C10-C11-O04-C12
7	IF	502	TA1	C14-C11-O04-C12
7	IF	502	TA1	C15-C11-O04-C12
7	JB	502	TA1	C10-C11-O04-C12
7	JB	502	TA1	C14-C11-O04-C12
7	JB	502	TA1	C15-C11-O04-C12
7	JD	502	TA1	C10-C11-O04-C12
7	JD	502	TA1	C14-C11-O04-C12
7	JD	502	TA1	C15-C11-O04-C12
7	JF	502	TA1	C10-C11-O04-C12
7	JF	502	TA1	C14-C11-O04-C12
7	JF	502	TA1	C15-C11-O04-C12
7	KB	502	TA1	C10-C11-O04-C12
7	KB	502	TA1	C14-C11-O04-C12
7	KB	502	TA1	C15-C11-O04-C12
7	KD	502	TA1	C10-C11-O04-C12
7	KD	502	TA1	C14-C11-O04-C12
7	KD	502	TA1	C15-C11-O04-C12

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Mol	Chain	Res	Type	Atoms
7	KF	502	TA1	C10-C11-O04-C12
7	KF	502	TA1	C14-C11-O04-C12
7	KF	502	TA1	C15-C11-O04-C12
7	LB	502	TA1	C10-C11-O04-C12
7	LB	502	TA1	C14-C11-O04-C12
7	LB	502	TA1	C15-C11-O04-C12
7	LD	502	TA1	C10-C11-O04-C12
7	LD	502	TA1	C14-C11-O04-C12
7	LD	502	TA1	C15-C11-O04-C12
7	LF	502	TA1	C10-C11-O04-C12
7	LF	502	TA1	C14-C11-O04-C12
7	LF	502	TA1	C15-C11-O04-C12
7	MB	502	TA1	C10-C11-O04-C12
7	MB	502	TA1	C14-C11-O04-C12
7	MB	502	TA1	C15-C11-O04-C12
7	MD	502	TA1	C10-C11-O04-C12
7	MD	502	TA1	C14-C11-O04-C12
7	MD	502	TA1	C15-C11-O04-C12
7	MF	502	TA1	C10-C11-O04-C12
7	MF	502	TA1	C14-C11-O04-C12
7	MF	502	TA1	C15-C11-O04-C12
7	NB	502	TA1	C10-C11-O04-C12
7	NB	502	TA1	C14-C11-O04-C12
7	NB	502	TA1	C15-C11-O04-C12
7	ND	502	TA1	C10-C11-O04-C12
7	ND	502	TA1	C14-C11-O04-C12
7	ND	502	TA1	C15-C11-O04-C12
7	NF	502	TA1	C10-C11-O04-C12
7	NF	502	TA1	C14-C11-O04-C12
7	NF	502	TA1	C15-C11-O04-C12
7	AB	502	TA1	C23-C22-O09-C21
7	AD	502	TA1	C23-C22-O09-C21
7	AF	502	TA1	C23-C22-O09-C21
7	BB	502	TA1	C23-C22-O09-C21
7	BD	502	TA1	C23-C22-O09-C21
7	BF	502	TA1	C23-C22-O09-C21
7	CB	502	TA1	C23-C22-O09-C21
7	CD	502	TA1	C23-C22-O09-C21
7	CF	502	TA1	C23-C22-O09-C21
7	DB	502	TA1	C23-C22-O09-C21
7	DD	502	TA1	C23-C22-O09-C21
7	DF	502	TA1	C23-C22-O09-C21

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Mol	Chain	Res	Type	Atoms
7	EB	502	TA1	C23-C22-O09-C21
7	ED	502	TA1	C23-C22-O09-C21
7	EF	502	TA1	C23-C22-O09-C21
7	FB	502	TA1	C23-C22-O09-C21
7	FD	502	TA1	C23-C22-O09-C21
7	FF	502	TA1	C23-C22-O09-C21
7	GB	502	TA1	C23-C22-O09-C21
7	GD	502	TA1	C23-C22-O09-C21
7	GF	502	TA1	C23-C22-O09-C21
7	HB	502	TA1	C23-C22-O09-C21
7	HD	502	TA1	C23-C22-O09-C21
7	HF	502	TA1	C23-C22-O09-C21
7	IB	502	TA1	C23-C22-O09-C21
7	ID	502	TA1	C23-C22-O09-C21
7	IF	502	TA1	C23-C22-O09-C21
7	JB	502	TA1	C23-C22-O09-C21
7	JD	502	TA1	C23-C22-O09-C21
7	JF	502	TA1	C23-C22-O09-C21
7	KB	502	TA1	C23-C22-O09-C21
7	KD	502	TA1	C23-C22-O09-C21
7	KF	502	TA1	C23-C22-O09-C21
7	LB	502	TA1	C23-C22-O09-C21
7	LD	502	TA1	C23-C22-O09-C21
7	LF	502	TA1	C23-C22-O09-C21
7	MB	502	TA1	C23-C22-O09-C21
7	MD	502	TA1	C23-C22-O09-C21
7	MF	502	TA1	C23-C22-O09-C21
7	NB	502	TA1	C23-C22-O09-C21
7	ND	502	TA1	C23-C22-O09-C21
7	NF	502	TA1	C23-C22-O09-C21
7	AB	502	TA1	O10-C22-O09-C21
7	AD	502	TA1	O10-C22-O09-C21
7	AF	502	TA1	O10-C22-O09-C21
7	BB	502	TA1	O10-C22-O09-C21
7	BD	502	TA1	O10-C22-O09-C21
7	BF	502	TA1	O10-C22-O09-C21
7	CB	502	TA1	O10-C22-O09-C21
7	CD	502	TA1	O10-C22-O09-C21
7	DB	502	TA1	O10-C22-O09-C21
7	DF	502	TA1	O10-C22-O09-C21
7	EB	502	TA1	O10-C22-O09-C21
7	EF	502	TA1	O10-C22-O09-C21

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Mol	Chain	Res	Type	Atoms
7	FB	502	TA1	O10-C22-O09-C21
7	FD	502	TA1	O10-C22-O09-C21
7	FF	502	TA1	O10-C22-O09-C21
7	GB	502	TA1	O10-C22-O09-C21
7	GD	502	TA1	O10-C22-O09-C21
7	GF	502	TA1	O10-C22-O09-C21
7	HB	502	TA1	O10-C22-O09-C21
7	HD	502	TA1	O10-C22-O09-C21
7	HF	502	TA1	O10-C22-O09-C21
7	IB	502	TA1	O10-C22-O09-C21
7	IF	502	TA1	O10-C22-O09-C21
7	JB	502	TA1	O10-C22-O09-C21
7	JD	502	TA1	O10-C22-O09-C21
7	KB	502	TA1	O10-C22-O09-C21
7	KD	502	TA1	O10-C22-O09-C21
7	KF	502	TA1	O10-C22-O09-C21
7	LB	502	TA1	O10-C22-O09-C21
7	LD	502	TA1	O10-C22-O09-C21
7	MB	502	TA1	O10-C22-O09-C21
7	MF	502	TA1	O10-C22-O09-C21
7	NB	502	TA1	O10-C22-O09-C21
7	ND	502	TA1	O10-C22-O09-C21
7	NF	502	TA1	O10-C22-O09-C21
7	LF	502	TA1	O10-C22-O09-C21
7	MD	502	TA1	O10-C22-O09-C21
7	CF	502	TA1	O10-C22-O09-C21
7	DD	502	TA1	O10-C22-O09-C21
7	ED	502	TA1	O10-C22-O09-C21
7	ID	502	TA1	O10-C22-O09-C21
7	JF	502	TA1	O10-C22-O09-C21
4	AA	501	GTP	C3'-C4'-C5'-O5'
4	AC	501	GTP	C3'-C4'-C5'-O5'
4	AE	501	GTP	C3'-C4'-C5'-O5'
4	BA	501	GTP	C3'-C4'-C5'-O5'
4	BC	501	GTP	C3'-C4'-C5'-O5'
4	BE	501	GTP	C3'-C4'-C5'-O5'
4	CA	501	GTP	C3'-C4'-C5'-O5'
4	CC	501	GTP	C3'-C4'-C5'-O5'
4	CE	501	GTP	C3'-C4'-C5'-O5'
4	DA	501	GTP	C3'-C4'-C5'-O5'
4	DC	501	GTP	C3'-C4'-C5'-O5'
4	DE	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
4	EA	501	GTP	C3'-C4'-C5'-O5'
4	EC	501	GTP	C3'-C4'-C5'-O5'
4	EE	501	GTP	C3'-C4'-C5'-O5'
4	FA	501	GTP	C3'-C4'-C5'-O5'
4	FC	501	GTP	C3'-C4'-C5'-O5'
4	FE	501	GTP	C3'-C4'-C5'-O5'
4	GA	501	GTP	C3'-C4'-C5'-O5'
4	GC	501	GTP	C3'-C4'-C5'-O5'
4	GE	501	GTP	C3'-C4'-C5'-O5'
4	HA	501	GTP	C3'-C4'-C5'-O5'
4	HC	501	GTP	C3'-C4'-C5'-O5'
4	HE	501	GTP	C3'-C4'-C5'-O5'
4	IA	501	GTP	C3'-C4'-C5'-O5'
4	IC	501	GTP	C3'-C4'-C5'-O5'
4	IE	501	GTP	C3'-C4'-C5'-O5'
4	JA	501	GTP	C3'-C4'-C5'-O5'
4	JC	501	GTP	C3'-C4'-C5'-O5'
4	JE	501	GTP	C3'-C4'-C5'-O5'
4	KA	501	GTP	C3'-C4'-C5'-O5'
4	KC	501	GTP	C3'-C4'-C5'-O5'
4	KE	501	GTP	C3'-C4'-C5'-O5'
4	LA	501	GTP	C3'-C4'-C5'-O5'
4	LC	501	GTP	C3'-C4'-C5'-O5'
4	LE	501	GTP	C3'-C4'-C5'-O5'
4	MA	501	GTP	C3'-C4'-C5'-O5'
4	MC	501	GTP	C3'-C4'-C5'-O5'
4	ME	501	GTP	C3'-C4'-C5'-O5'
4	NA	501	GTP	C3'-C4'-C5'-O5'
4	NC	501	GTP	C3'-C4'-C5'-O5'
4	NE	501	GTP	C3'-C4'-C5'-O5'
6	AB	501	GDP	O4'-C4'-C5'-O5'
6	AD	501	GDP	O4'-C4'-C5'-O5'
6	AF	501	GDP	O4'-C4'-C5'-O5'
6	BB	501	GDP	O4'-C4'-C5'-O5'
6	BD	501	GDP	O4'-C4'-C5'-O5'
6	BF	501	GDP	O4'-C4'-C5'-O5'
6	CB	501	GDP	O4'-C4'-C5'-O5'
6	CD	501	GDP	O4'-C4'-C5'-O5'
6	CF	501	GDP	O4'-C4'-C5'-O5'
6	DB	501	GDP	O4'-C4'-C5'-O5'
6	DD	501	GDP	O4'-C4'-C5'-O5'
6	DF	501	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
6	EB	501	GDP	O4'-C4'-C5'-O5'
6	ED	501	GDP	O4'-C4'-C5'-O5'
6	EF	501	GDP	O4'-C4'-C5'-O5'
6	FB	501	GDP	O4'-C4'-C5'-O5'
6	FD	501	GDP	O4'-C4'-C5'-O5'
6	FF	501	GDP	O4'-C4'-C5'-O5'
6	GB	501	GDP	O4'-C4'-C5'-O5'
6	GD	501	GDP	O4'-C4'-C5'-O5'
6	GF	501	GDP	O4'-C4'-C5'-O5'
6	HB	501	GDP	O4'-C4'-C5'-O5'
6	HD	501	GDP	O4'-C4'-C5'-O5'
6	HF	501	GDP	O4'-C4'-C5'-O5'
6	IB	501	GDP	O4'-C4'-C5'-O5'
6	ID	501	GDP	O4'-C4'-C5'-O5'
6	IF	501	GDP	O4'-C4'-C5'-O5'
6	JB	501	GDP	O4'-C4'-C5'-O5'
6	JD	501	GDP	O4'-C4'-C5'-O5'
6	JF	501	GDP	O4'-C4'-C5'-O5'
6	KB	501	GDP	O4'-C4'-C5'-O5'
6	KD	501	GDP	O4'-C4'-C5'-O5'
6	KF	501	GDP	O4'-C4'-C5'-O5'
6	LB	501	GDP	O4'-C4'-C5'-O5'
6	LD	501	GDP	O4'-C4'-C5'-O5'
6	LF	501	GDP	O4'-C4'-C5'-O5'
6	MB	501	GDP	O4'-C4'-C5'-O5'
6	MD	501	GDP	O4'-C4'-C5'-O5'
6	MF	501	GDP	O4'-C4'-C5'-O5'
6	NB	501	GDP	O4'-C4'-C5'-O5'
6	ND	501	GDP	O4'-C4'-C5'-O5'
6	NF	501	GDP	O4'-C4'-C5'-O5'
4	KE	501	GTP	O4'-C4'-C5'-O5'
7	AB	502	TA1	C13-C12-O04-C11
7	AD	502	TA1	C13-C12-O04-C11
7	AF	502	TA1	C13-C12-O04-C11
7	BB	502	TA1	C13-C12-O04-C11
7	BD	502	TA1	C13-C12-O04-C11
7	BF	502	TA1	C13-C12-O04-C11
7	CB	502	TA1	C13-C12-O04-C11
7	CD	502	TA1	C13-C12-O04-C11
7	CF	502	TA1	O05-C12-O04-C11
7	CF	502	TA1	C13-C12-O04-C11
7	DB	502	TA1	C13-C12-O04-C11

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Mol	Chain	Res	Type	Atoms
7	DD	502	TA1	C13-C12-O04-C11
7	DF	502	TA1	C13-C12-O04-C11
7	EB	502	TA1	C13-C12-O04-C11
7	ED	502	TA1	C13-C12-O04-C11
7	EF	502	TA1	O05-C12-O04-C11
7	EF	502	TA1	C13-C12-O04-C11
7	FB	502	TA1	C13-C12-O04-C11
7	FD	502	TA1	C13-C12-O04-C11
7	FF	502	TA1	C13-C12-O04-C11
7	GB	502	TA1	C13-C12-O04-C11
7	GD	502	TA1	C13-C12-O04-C11
7	GF	502	TA1	C13-C12-O04-C11
7	HB	502	TA1	C13-C12-O04-C11
7	HD	502	TA1	C13-C12-O04-C11
7	HF	502	TA1	C13-C12-O04-C11
7	IB	502	TA1	O05-C12-O04-C11
7	IB	502	TA1	C13-C12-O04-C11
7	ID	502	TA1	O05-C12-O04-C11
7	ID	502	TA1	C13-C12-O04-C11
7	IF	502	TA1	C13-C12-O04-C11
7	JB	502	TA1	C13-C12-O04-C11
7	JD	502	TA1	C13-C12-O04-C11
7	JF	502	TA1	C13-C12-O04-C11
7	KB	502	TA1	O05-C12-O04-C11
7	KB	502	TA1	C13-C12-O04-C11
7	KD	502	TA1	O05-C12-O04-C11
7	KD	502	TA1	C13-C12-O04-C11
7	KF	502	TA1	C13-C12-O04-C11
7	LB	502	TA1	C13-C12-O04-C11
7	LD	502	TA1	C13-C12-O04-C11
7	LF	502	TA1	C13-C12-O04-C11
7	MB	502	TA1	C13-C12-O04-C11
7	MD	502	TA1	C13-C12-O04-C11
7	MF	502	TA1	C13-C12-O04-C11
7	NB	502	TA1	C13-C12-O04-C11
7	ND	502	TA1	C13-C12-O04-C11
7	NF	502	TA1	O05-C12-O04-C11
7	NF	502	TA1	C13-C12-O04-C11
4	AA	501	GTP	O4'-C4'-C5'-O5'
4	AC	501	GTP	O4'-C4'-C5'-O5'
4	AE	501	GTP	O4'-C4'-C5'-O5'
4	BA	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
4	BC	501	GTP	O4'-C4'-C5'-O5'
4	BE	501	GTP	O4'-C4'-C5'-O5'
4	CA	501	GTP	O4'-C4'-C5'-O5'
4	CC	501	GTP	O4'-C4'-C5'-O5'
4	CE	501	GTP	O4'-C4'-C5'-O5'
4	DA	501	GTP	O4'-C4'-C5'-O5'
4	DC	501	GTP	O4'-C4'-C5'-O5'
4	DE	501	GTP	O4'-C4'-C5'-O5'
4	EA	501	GTP	O4'-C4'-C5'-O5'
4	EC	501	GTP	O4'-C4'-C5'-O5'
4	EE	501	GTP	O4'-C4'-C5'-O5'
4	FA	501	GTP	O4'-C4'-C5'-O5'
4	FC	501	GTP	O4'-C4'-C5'-O5'
4	FE	501	GTP	O4'-C4'-C5'-O5'
4	GA	501	GTP	O4'-C4'-C5'-O5'
4	GC	501	GTP	O4'-C4'-C5'-O5'
4	GE	501	GTP	O4'-C4'-C5'-O5'
4	HA	501	GTP	O4'-C4'-C5'-O5'
4	HC	501	GTP	O4'-C4'-C5'-O5'
4	HE	501	GTP	O4'-C4'-C5'-O5'
4	IA	501	GTP	O4'-C4'-C5'-O5'
4	IC	501	GTP	O4'-C4'-C5'-O5'
4	IE	501	GTP	O4'-C4'-C5'-O5'
4	JA	501	GTP	O4'-C4'-C5'-O5'
4	JC	501	GTP	O4'-C4'-C5'-O5'
4	JE	501	GTP	O4'-C4'-C5'-O5'
4	KA	501	GTP	O4'-C4'-C5'-O5'
4	KC	501	GTP	O4'-C4'-C5'-O5'
4	LA	501	GTP	O4'-C4'-C5'-O5'
4	LC	501	GTP	O4'-C4'-C5'-O5'
4	LE	501	GTP	O4'-C4'-C5'-O5'
4	MA	501	GTP	O4'-C4'-C5'-O5'
4	MC	501	GTP	O4'-C4'-C5'-O5'
4	ME	501	GTP	O4'-C4'-C5'-O5'
4	NA	501	GTP	O4'-C4'-C5'-O5'
4	NC	501	GTP	O4'-C4'-C5'-O5'
4	NE	501	GTP	O4'-C4'-C5'-O5'
7	BF	502	TA1	O05-C12-O04-C11
7	DB	502	TA1	O05-C12-O04-C11
7	ED	502	TA1	O05-C12-O04-C11
7	FF	502	TA1	O05-C12-O04-C11
7	LB	502	TA1	O05-C12-O04-C11

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Mol	Chain	Res	Type	Atoms
7	NB	502	TA1	O05-C12-O04-C11
7	AB	502	TA1	O05-C12-O04-C11
7	AD	502	TA1	O05-C12-O04-C11
7	AF	502	TA1	O05-C12-O04-C11
7	BB	502	TA1	O05-C12-O04-C11
7	BD	502	TA1	O05-C12-O04-C11
7	CB	502	TA1	O05-C12-O04-C11
7	CD	502	TA1	O05-C12-O04-C11
7	DD	502	TA1	O05-C12-O04-C11
7	DF	502	TA1	O05-C12-O04-C11
7	EB	502	TA1	O05-C12-O04-C11
7	FB	502	TA1	O05-C12-O04-C11
7	FD	502	TA1	O05-C12-O04-C11
7	GB	502	TA1	O05-C12-O04-C11
7	GD	502	TA1	O05-C12-O04-C11
7	GF	502	TA1	O05-C12-O04-C11
7	HB	502	TA1	O05-C12-O04-C11
7	HD	502	TA1	O05-C12-O04-C11
7	HF	502	TA1	O05-C12-O04-C11
7	IF	502	TA1	O05-C12-O04-C11
7	JB	502	TA1	O05-C12-O04-C11
7	JD	502	TA1	O05-C12-O04-C11
7	JF	502	TA1	O05-C12-O04-C11
7	KF	502	TA1	O05-C12-O04-C11
7	LD	502	TA1	O05-C12-O04-C11
7	LF	502	TA1	O05-C12-O04-C11
7	MB	502	TA1	O05-C12-O04-C11
7	MD	502	TA1	O05-C12-O04-C11
7	MF	502	TA1	O05-C12-O04-C11
7	ND	502	TA1	O05-C12-O04-C11
4	AA	501	GTP	PG-O3B-PB-O1B
4	AC	501	GTP	PG-O3B-PB-O1B
4	AE	501	GTP	PG-O3B-PB-O1B
4	BA	501	GTP	PG-O3B-PB-O1B
4	BC	501	GTP	PG-O3B-PB-O1B
4	BE	501	GTP	PG-O3B-PB-O1B
4	CA	501	GTP	PG-O3B-PB-O1B
4	CC	501	GTP	PG-O3B-PB-O1B
4	CE	501	GTP	PG-O3B-PB-O1B
4	DA	501	GTP	PG-O3B-PB-O1B
4	DC	501	GTP	PG-O3B-PB-O1B
4	DE	501	GTP	PG-O3B-PB-O1B

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Mol	Chain	Res	Type	Atoms
4	EA	501	GTP	PG-O3B-PB-O1B
4	EC	501	GTP	PG-O3B-PB-O1B
4	EE	501	GTP	PG-O3B-PB-O1B
4	FA	501	GTP	PG-O3B-PB-O1B
4	FC	501	GTP	PG-O3B-PB-O1B
4	FE	501	GTP	PG-O3B-PB-O1B
4	GA	501	GTP	PG-O3B-PB-O1B
4	GC	501	GTP	PG-O3B-PB-O1B
4	GE	501	GTP	PG-O3B-PB-O1B
4	HA	501	GTP	PG-O3B-PB-O1B
4	HC	501	GTP	PG-O3B-PB-O1B
4	HE	501	GTP	PG-O3B-PB-O1B
4	IA	501	GTP	PG-O3B-PB-O1B
4	IC	501	GTP	PG-O3B-PB-O1B
4	IE	501	GTP	PG-O3B-PB-O1B
4	JA	501	GTP	PG-O3B-PB-O1B
4	JC	501	GTP	PG-O3B-PB-O1B
4	JE	501	GTP	PG-O3B-PB-O1B
4	KA	501	GTP	PG-O3B-PB-O1B
4	KC	501	GTP	PG-O3B-PB-O1B
4	KE	501	GTP	PG-O3B-PB-O1B
4	LA	501	GTP	PG-O3B-PB-O1B
4	LC	501	GTP	PG-O3B-PB-O1B
4	LE	501	GTP	PG-O3B-PB-O1B
4	MA	501	GTP	PG-O3B-PB-O1B
4	MC	501	GTP	PG-O3B-PB-O1B
4	ME	501	GTP	PG-O3B-PB-O1B
4	NA	501	GTP	PG-O3B-PB-O1B
4	NC	501	GTP	PG-O3B-PB-O1B
4	NE	501	GTP	PG-O3B-PB-O1B
4	AA	501	GTP	PA-O3A-PB-O2B
4	AC	501	GTP	PA-O3A-PB-O2B
4	AE	501	GTP	PA-O3A-PB-O2B
4	BA	501	GTP	PA-O3A-PB-O2B
4	BC	501	GTP	PA-O3A-PB-O2B
4	BE	501	GTP	PA-O3A-PB-O2B
4	CA	501	GTP	PA-O3A-PB-O2B
4	CC	501	GTP	PA-O3A-PB-O2B
4	CE	501	GTP	PA-O3A-PB-O2B
4	DA	501	GTP	PA-O3A-PB-O2B
4	DC	501	GTP	PA-O3A-PB-O2B
4	DE	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
4	EA	501	GTP	PA-O3A-PB-O2B
4	EC	501	GTP	PA-O3A-PB-O2B
4	EE	501	GTP	PA-O3A-PB-O2B
4	FA	501	GTP	PA-O3A-PB-O2B
4	FC	501	GTP	PA-O3A-PB-O2B
4	FE	501	GTP	PA-O3A-PB-O2B
4	GA	501	GTP	PA-O3A-PB-O2B
4	GC	501	GTP	PA-O3A-PB-O2B
4	GE	501	GTP	PA-O3A-PB-O2B
4	HA	501	GTP	PA-O3A-PB-O2B
4	HC	501	GTP	PA-O3A-PB-O2B
4	HE	501	GTP	PA-O3A-PB-O2B
4	IA	501	GTP	PA-O3A-PB-O2B
4	IC	501	GTP	PA-O3A-PB-O2B
4	IE	501	GTP	PA-O3A-PB-O2B
4	JA	501	GTP	PA-O3A-PB-O2B
4	JC	501	GTP	PA-O3A-PB-O2B
4	JE	501	GTP	PA-O3A-PB-O2B
4	KA	501	GTP	PA-O3A-PB-O2B
4	KC	501	GTP	PA-O3A-PB-O2B
4	KE	501	GTP	PA-O3A-PB-O2B
4	LA	501	GTP	PA-O3A-PB-O2B
4	LC	501	GTP	PA-O3A-PB-O2B
4	LE	501	GTP	PA-O3A-PB-O2B
4	MA	501	GTP	PA-O3A-PB-O2B
4	MC	501	GTP	PA-O3A-PB-O2B
4	ME	501	GTP	PA-O3A-PB-O2B
4	NA	501	GTP	PA-O3A-PB-O2B
4	NC	501	GTP	PA-O3A-PB-O2B
4	NE	501	GTP	PA-O3A-PB-O2B

There are no ring outliers.

126 monomers are involved in 745 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	KE	501	GTP	8	0
7	JD	502	TA1	7	0
4	LE	501	GTP	6	0
4	FE	501	GTP	6	0
7	FD	502	TA1	7	0
6	CD	501	GDP	5	0
7	KB	502	TA1	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	AF	501	GDP	5	0
6	BB	501	GDP	5	0
6	FF	501	GDP	5	0
7	IB	502	TA1	7	0
6	IF	501	GDP	5	0
6	FB	501	GDP	5	0
7	GF	502	TA1	7	0
6	CF	501	GDP	5	0
7	GB	502	TA1	7	0
4	JE	501	GTP	9	0
6	DF	501	GDP	5	0
7	JB	502	TA1	7	0
6	NF	501	GDP	5	0
7	HD	502	TA1	7	0
4	ME	501	GTP	7	0
6	AB	501	GDP	5	0
7	EB	502	TA1	7	0
6	LB	501	GDP	5	0
4	GC	501	GTP	7	0
4	NE	501	GTP	7	0
6	KF	501	GDP	6	0
4	EE	501	GTP	8	0
4	NC	501	GTP	7	0
6	ND	501	GDP	5	0
7	AB	502	TA1	6	0
4	HA	501	GTP	5	0
4	JC	501	GTP	8	0
4	KA	501	GTP	8	0
6	JD	501	GDP	5	0
6	MD	501	GDP	5	0
6	GB	501	GDP	5	0
7	BD	502	TA1	7	0
7	AF	502	TA1	6	0
4	HE	501	GTP	5	0
4	EC	501	GTP	6	0
7	JF	502	TA1	7	0
6	JF	501	GDP	5	0
4	CA	501	GTP	4	0
4	MA	501	GTP	5	0
4	CC	501	GTP	4	0
7	MD	502	TA1	6	0
6	IB	501	GDP	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	BF	502	TA1	6	0
7	LD	502	TA1	6	0
4	AC	501	GTP	7	0
4	DC	501	GTP	6	0
6	LF	501	GDP	5	0
4	GE	501	GTP	4	0
4	NA	501	GTP	6	0
4	AA	501	GTP	4	0
4	IC	501	GTP	6	0
7	DB	502	TA1	6	0
6	DD	501	GDP	5	0
7	CD	502	TA1	6	0
6	CB	501	GDP	5	0
6	KB	501	GDP	5	0
4	HC	501	GTP	5	0
7	HF	502	TA1	7	0
7	GD	502	TA1	7	0
7	ND	502	TA1	6	0
7	MF	502	TA1	6	0
6	AD	501	GDP	5	0
6	BF	501	GDP	5	0
6	GD	501	GDP	5	0
6	KD	501	GDP	5	0
6	EB	501	GDP	5	0
4	LC	501	GTP	7	0
7	FF	502	TA1	7	0
6	HB	501	GDP	5	0
4	IE	501	GTP	6	0
7	NF	502	TA1	6	0
7	IF	502	TA1	7	0
7	KD	502	TA1	7	0
4	EA	501	GTP	6	0
4	CE	501	GTP	4	0
7	MB	502	TA1	7	0
6	BD	501	GDP	5	0
6	JB	501	GDP	5	0
7	LF	502	TA1	6	0
4	AE	501	GTP	5	0
4	DE	501	GTP	7	0
7	FB	502	TA1	7	0
4	IA	501	GTP	5	0
7	ID	502	TA1	8	0

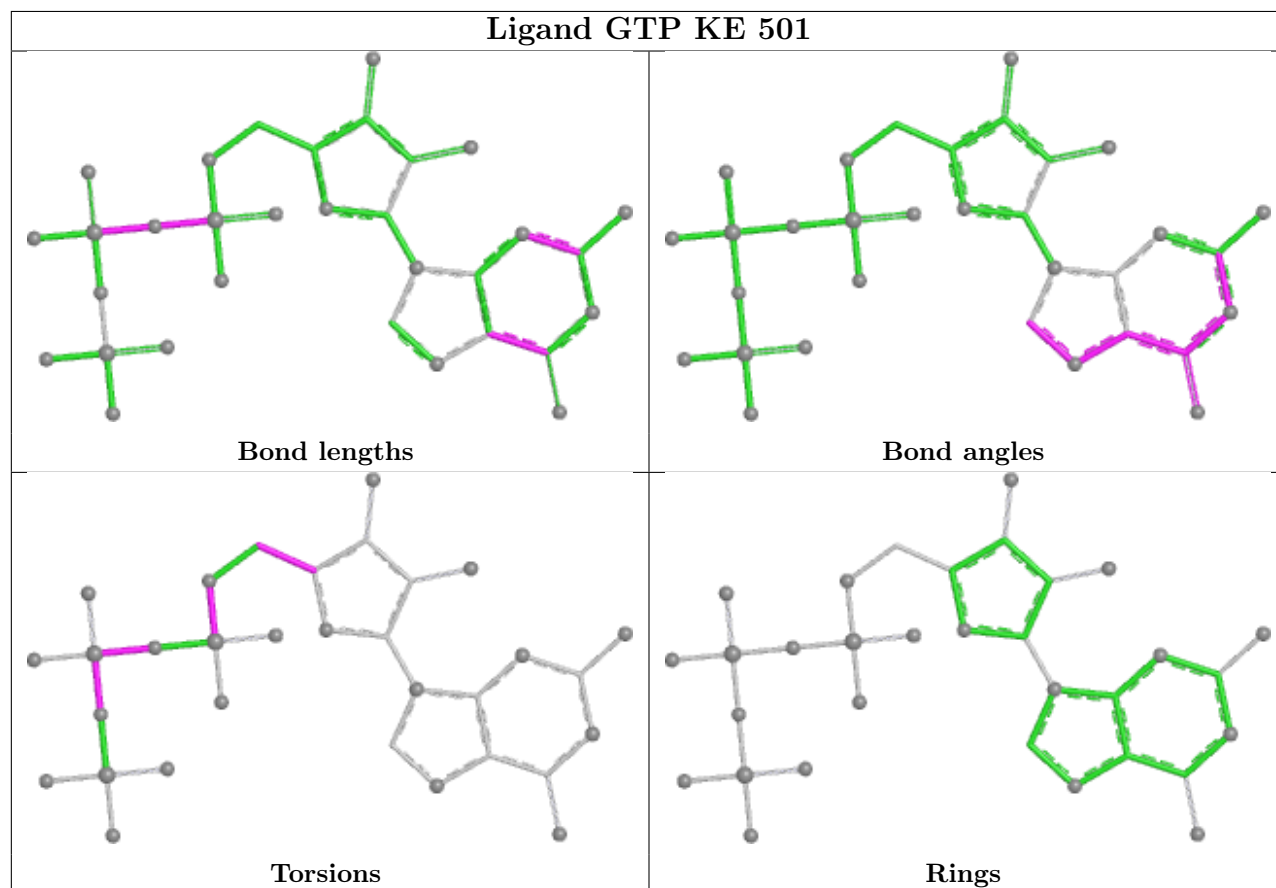
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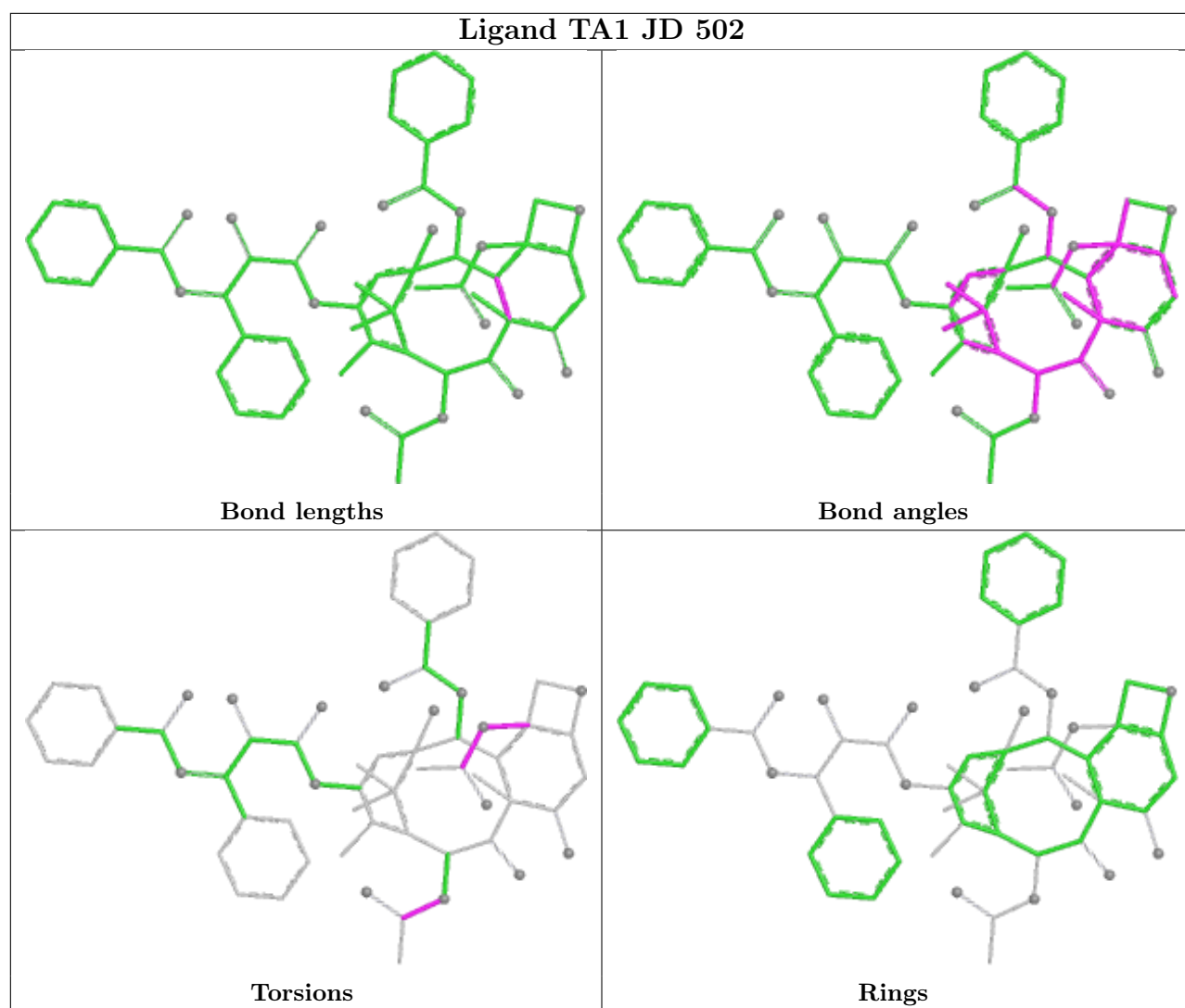
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	DD	502	TA1	6	0
7	CB	502	TA1	6	0
6	DB	501	GDP	5	0
7	KF	502	TA1	7	0
4	FA	501	GTP	7	0
7	CF	502	TA1	6	0
7	DF	502	TA1	6	0
4	LA	501	GTP	6	0
6	MB	501	GDP	5	0
6	ED	501	GDP	5	0
7	NB	502	TA1	6	0
4	JA	501	GTP	6	0
6	HD	501	GDP	5	0
6	MF	501	GDP	5	0
7	EF	502	TA1	8	0
6	ID	501	GDP	5	0
4	BE	501	GTP	5	0
4	DA	501	GTP	8	0
4	FC	501	GTP	6	0
7	LB	502	TA1	7	0
4	GA	501	GTP	6	0
6	LD	501	GDP	5	0
4	BA	501	GTP	5	0
6	GF	501	GDP	5	0
6	EF	501	GDP	5	0
7	ED	502	TA1	6	0
7	AD	502	TA1	6	0
6	NB	501	GDP	5	0
4	MC	501	GTP	6	0
6	FD	501	GDP	5	0
4	KC	501	GTP	9	0
7	BB	502	TA1	6	0
7	HB	502	TA1	7	0
4	BC	501	GTP	5	0
6	HF	501	GDP	5	0

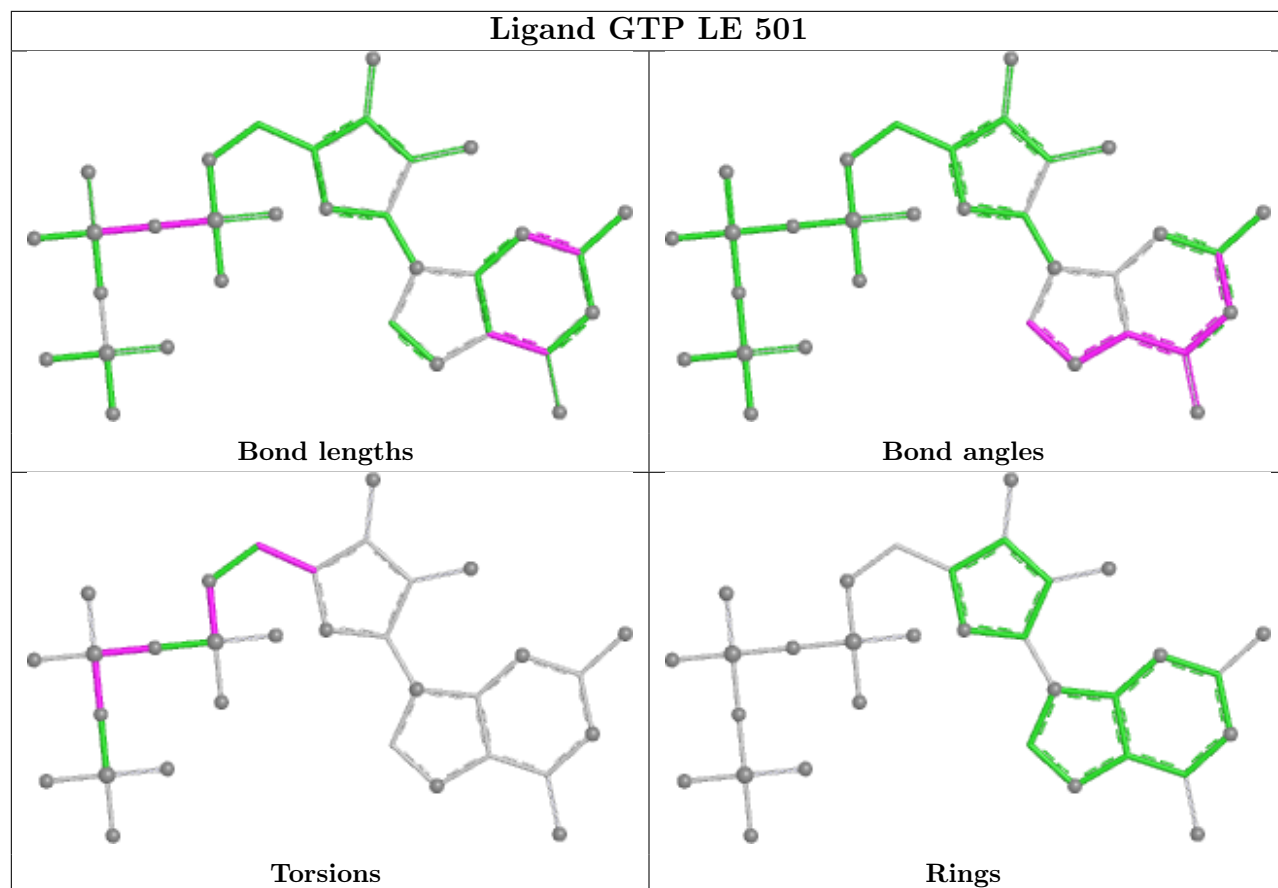
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring

in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

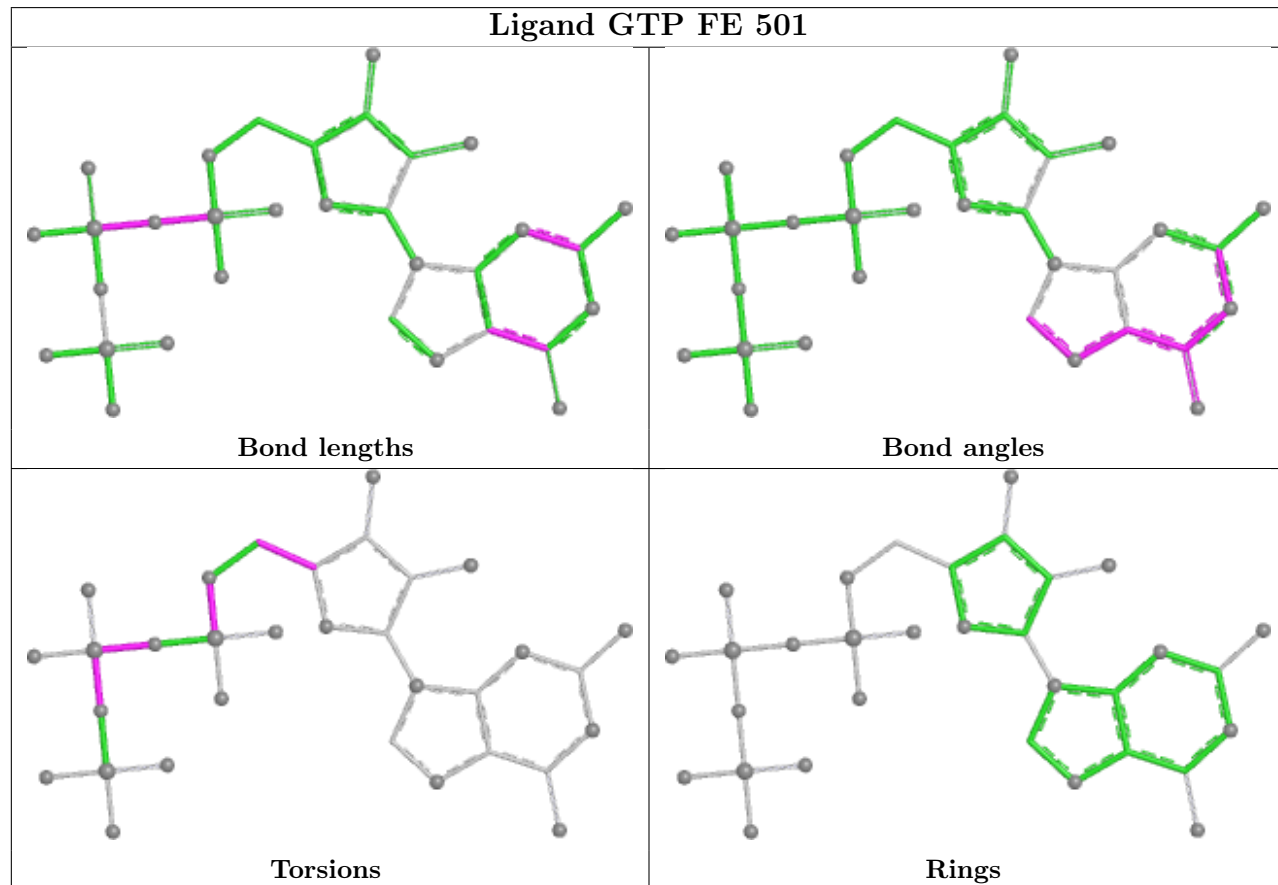


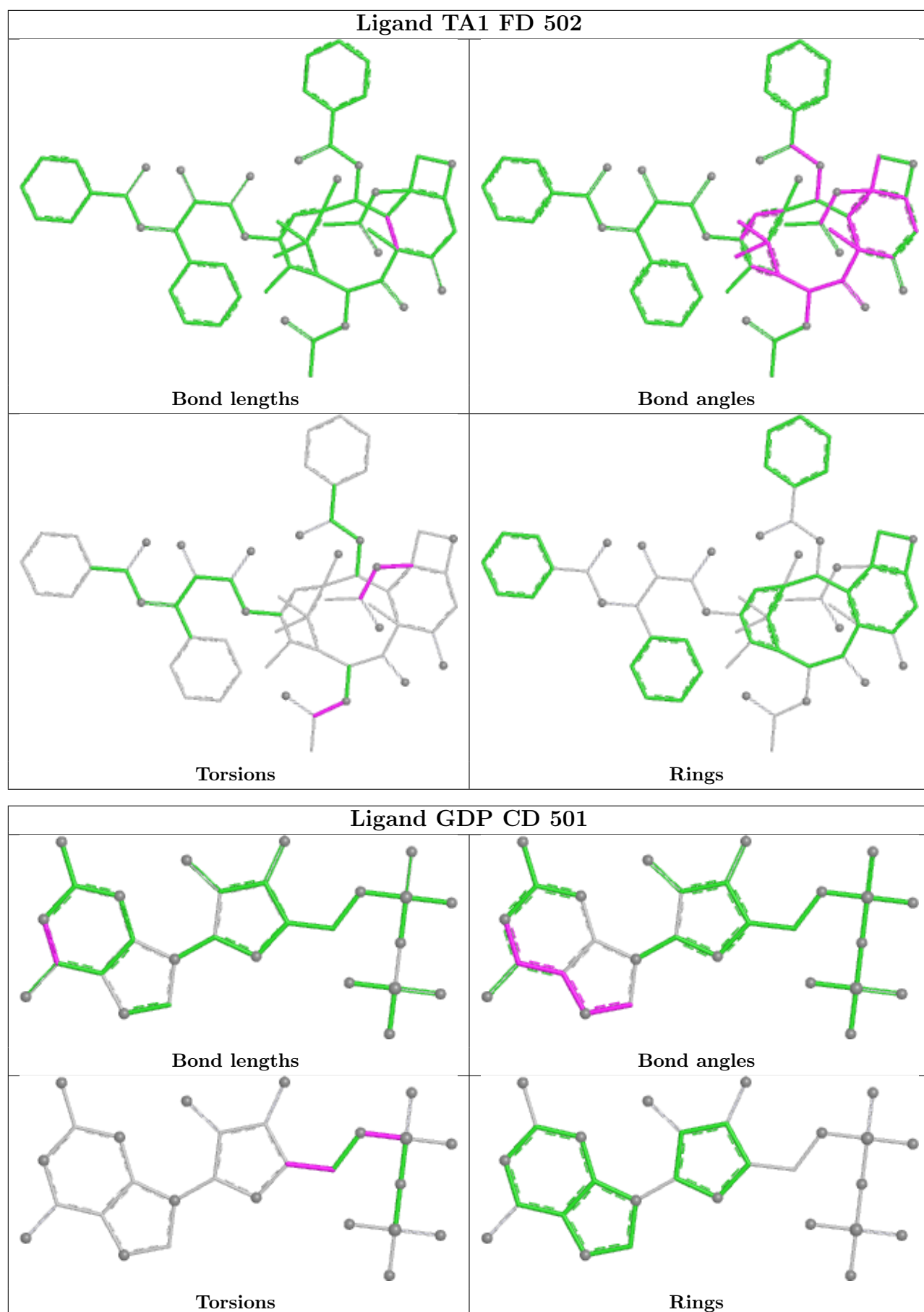


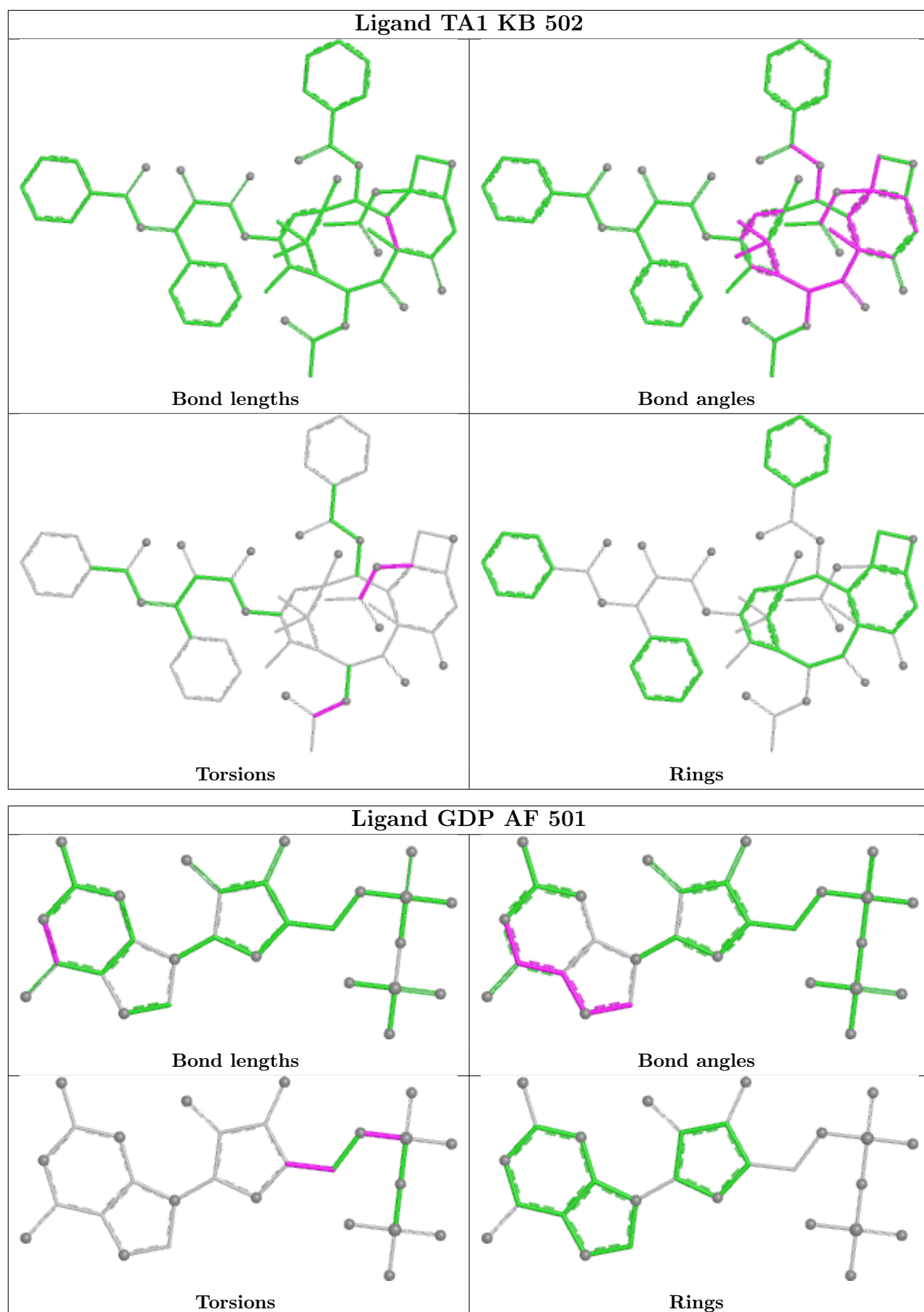
## Ligand GTP LE 501



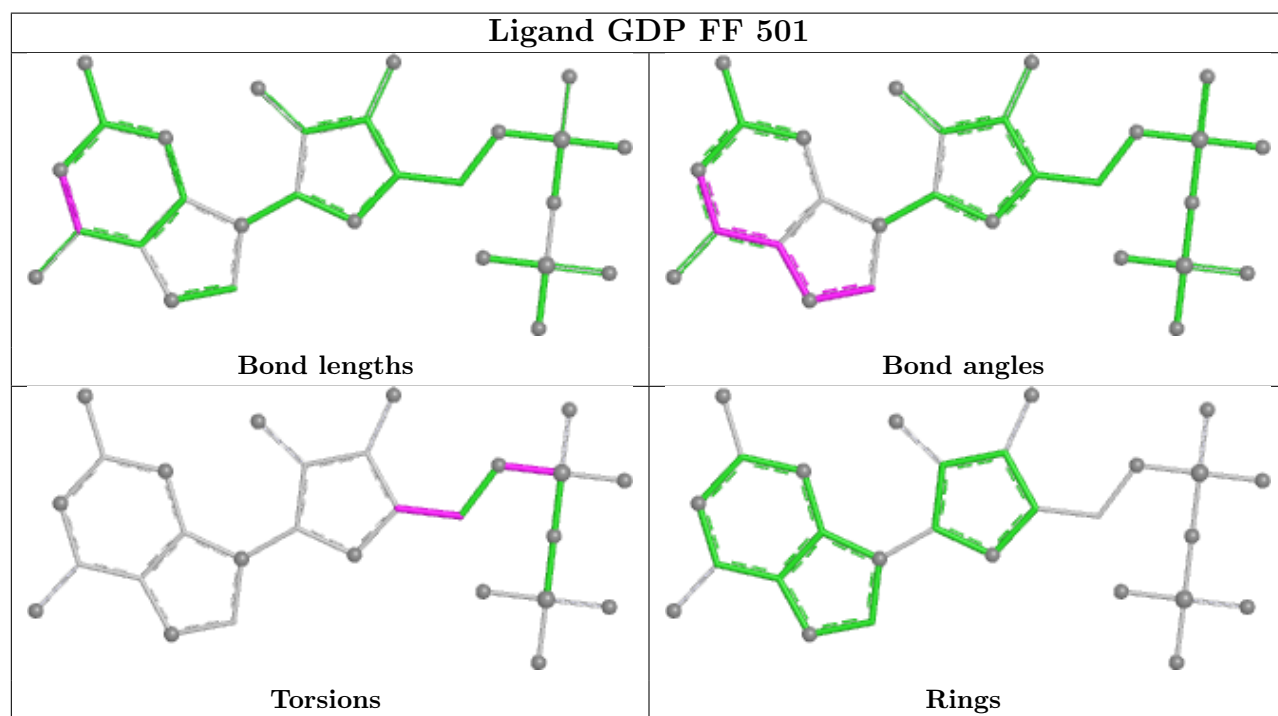
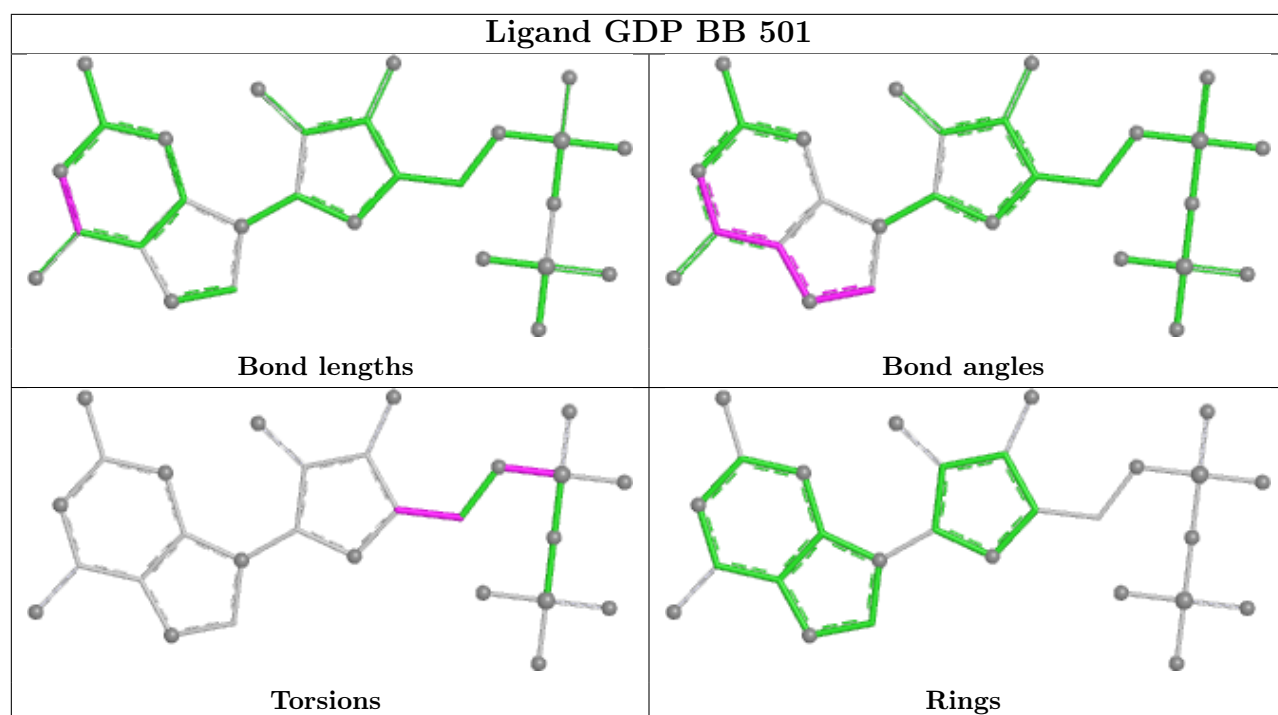
## Ligand GTP FE 501

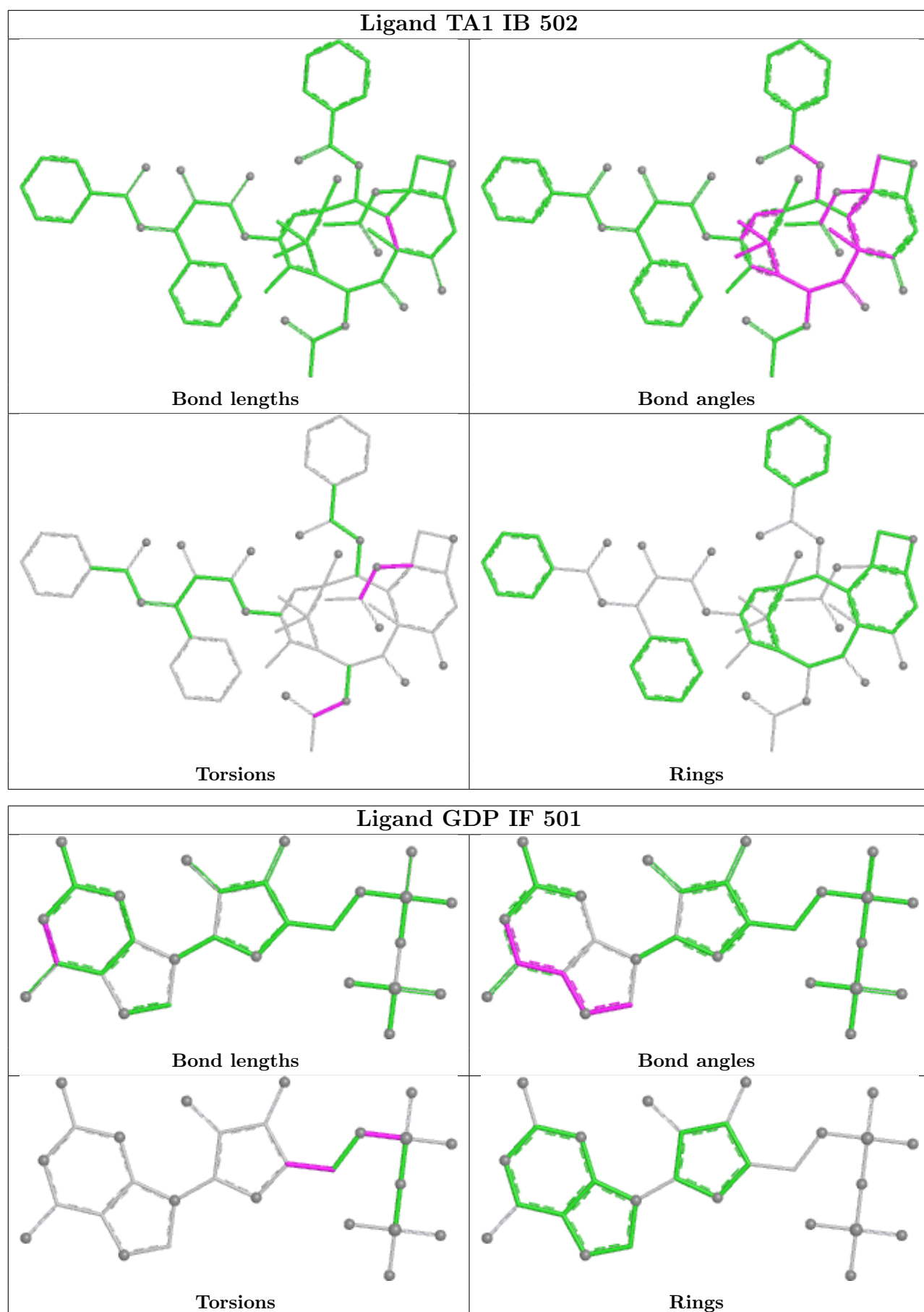


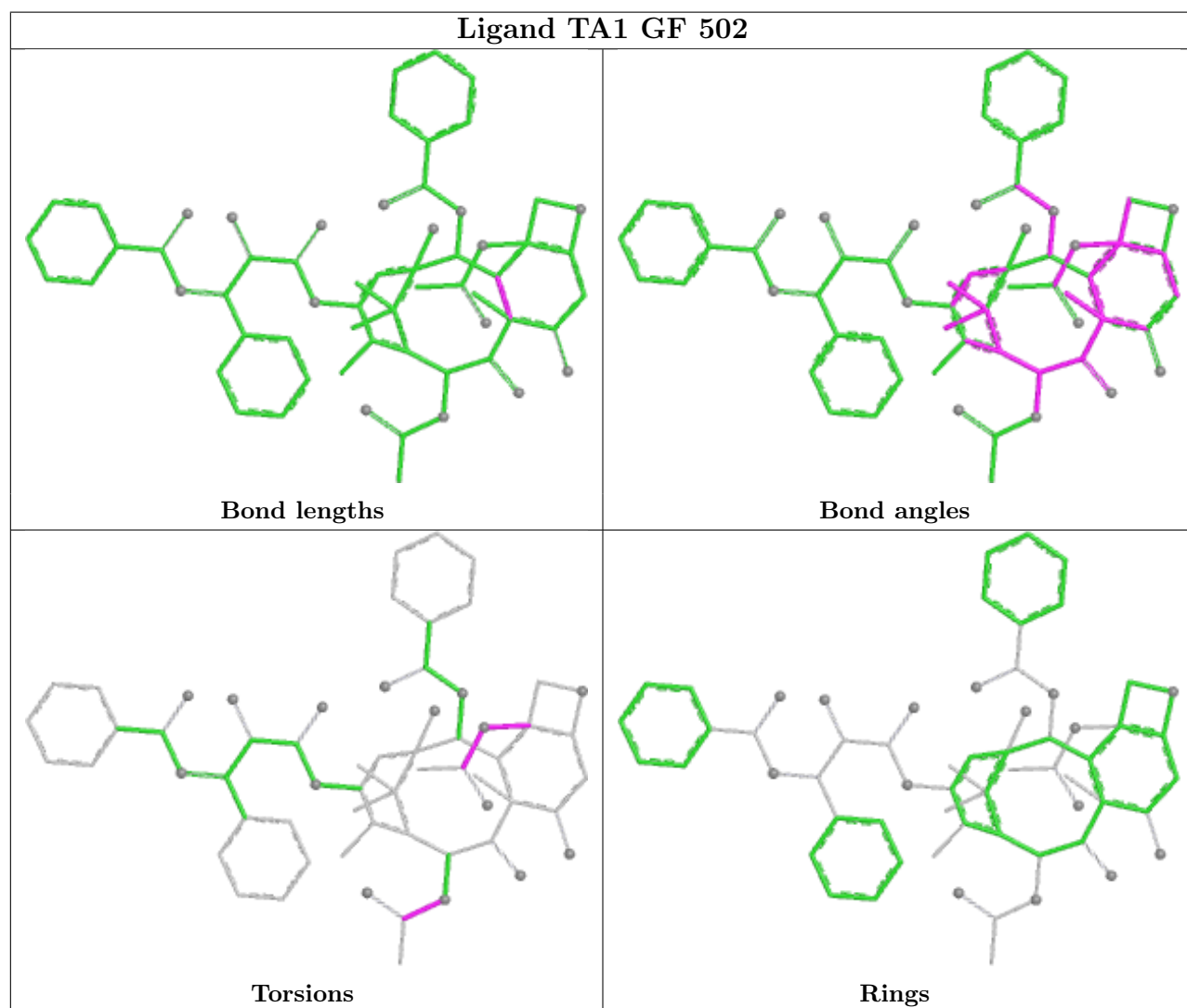
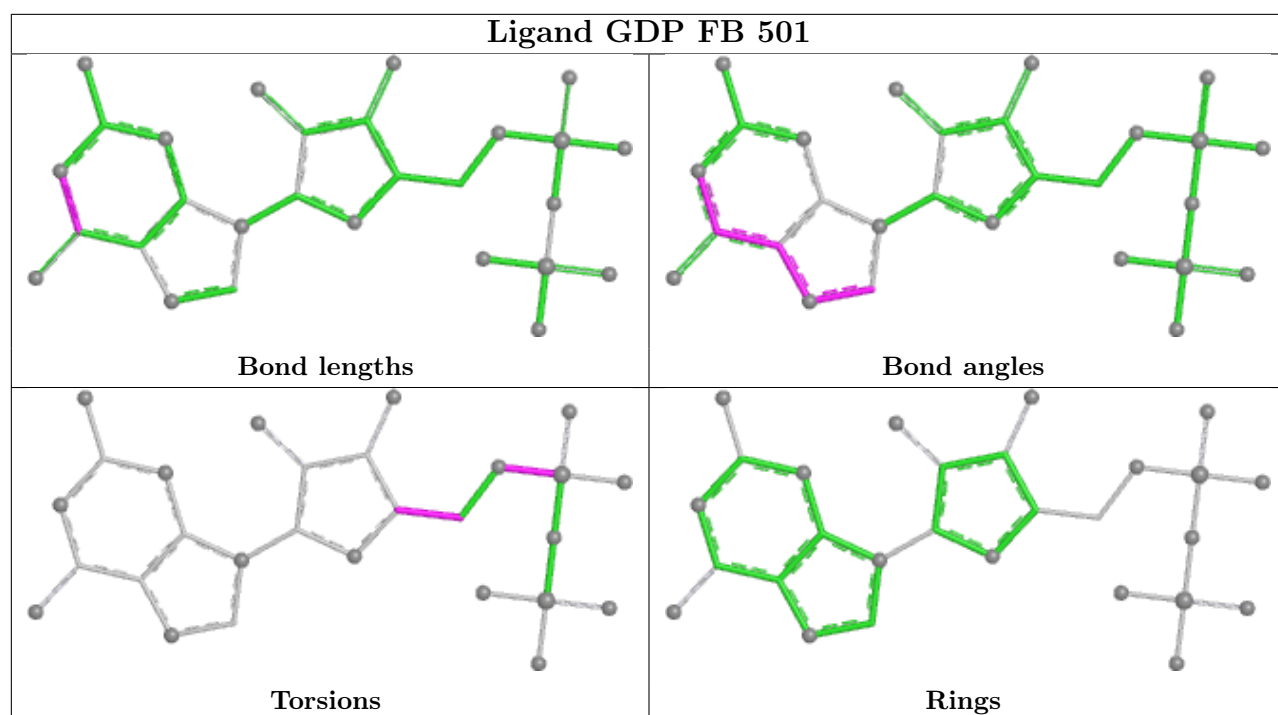


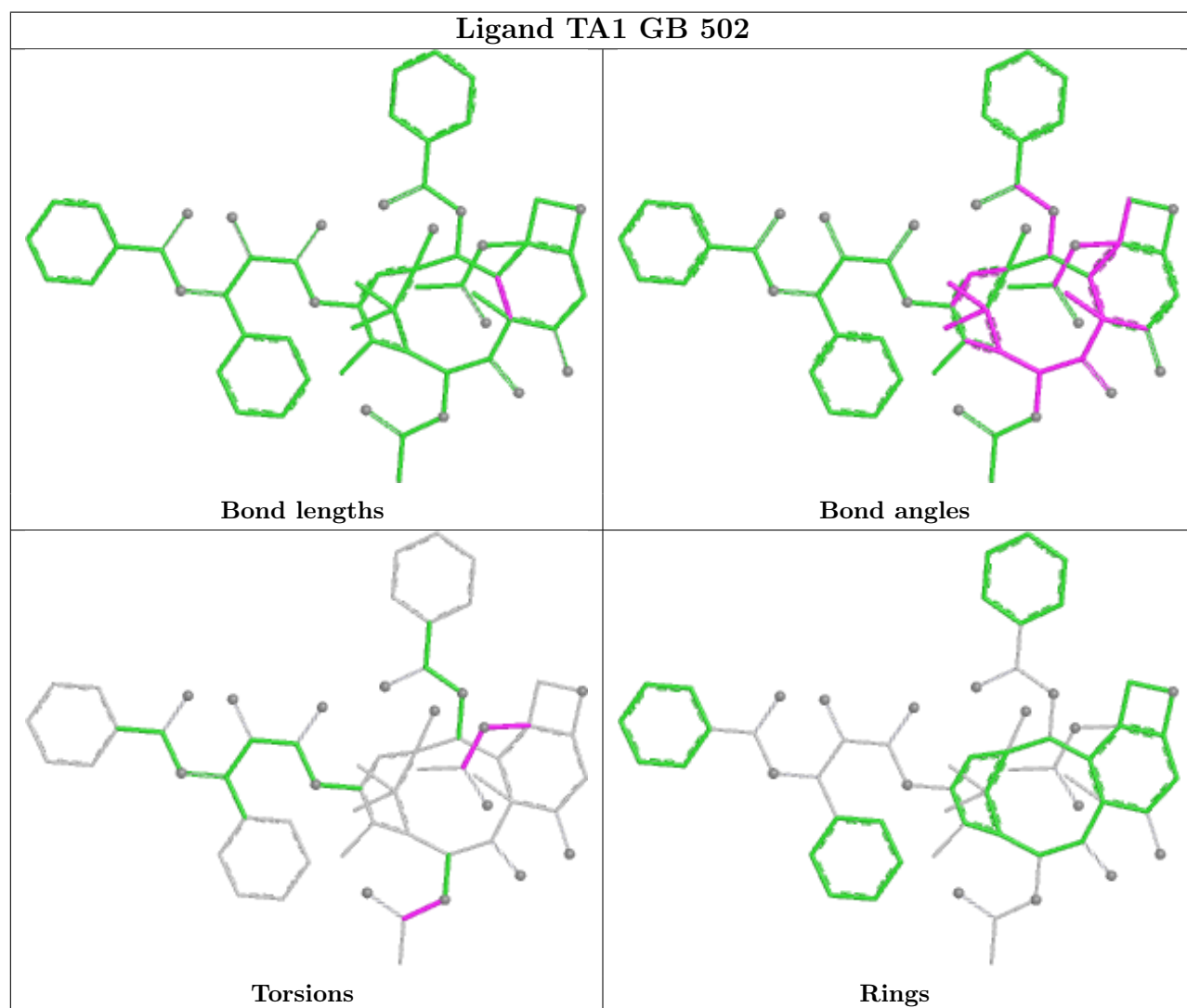
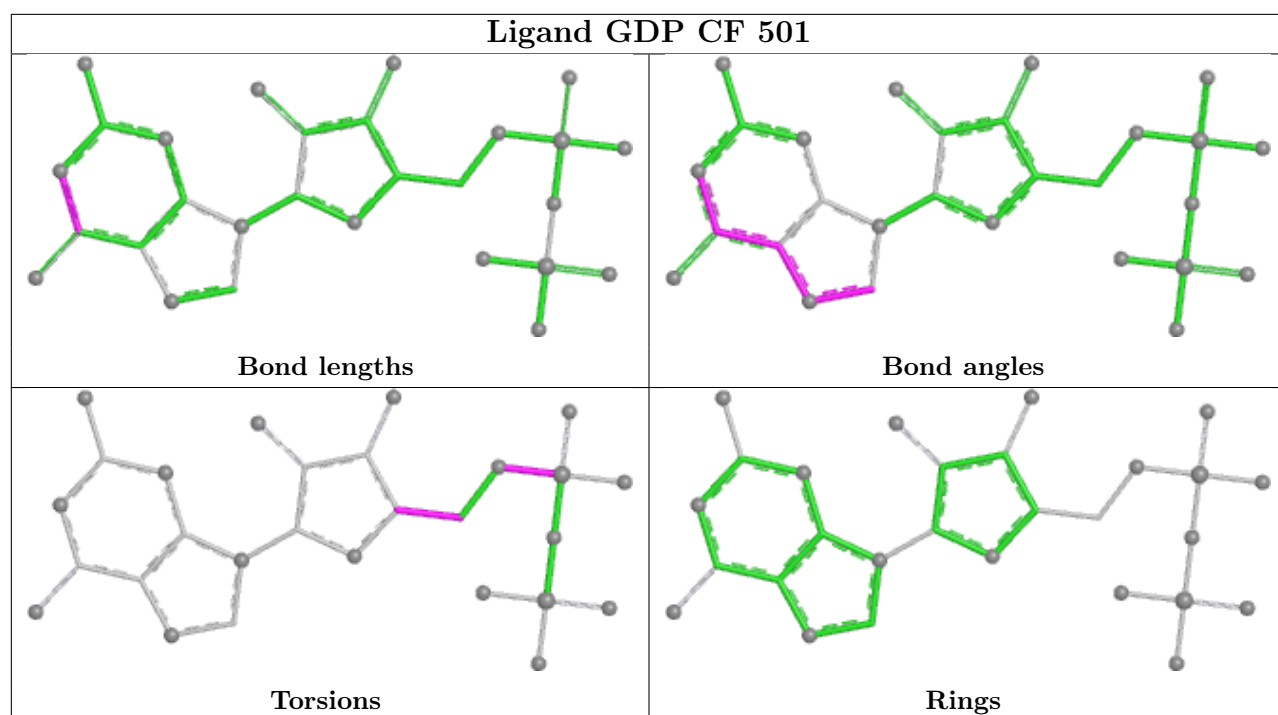




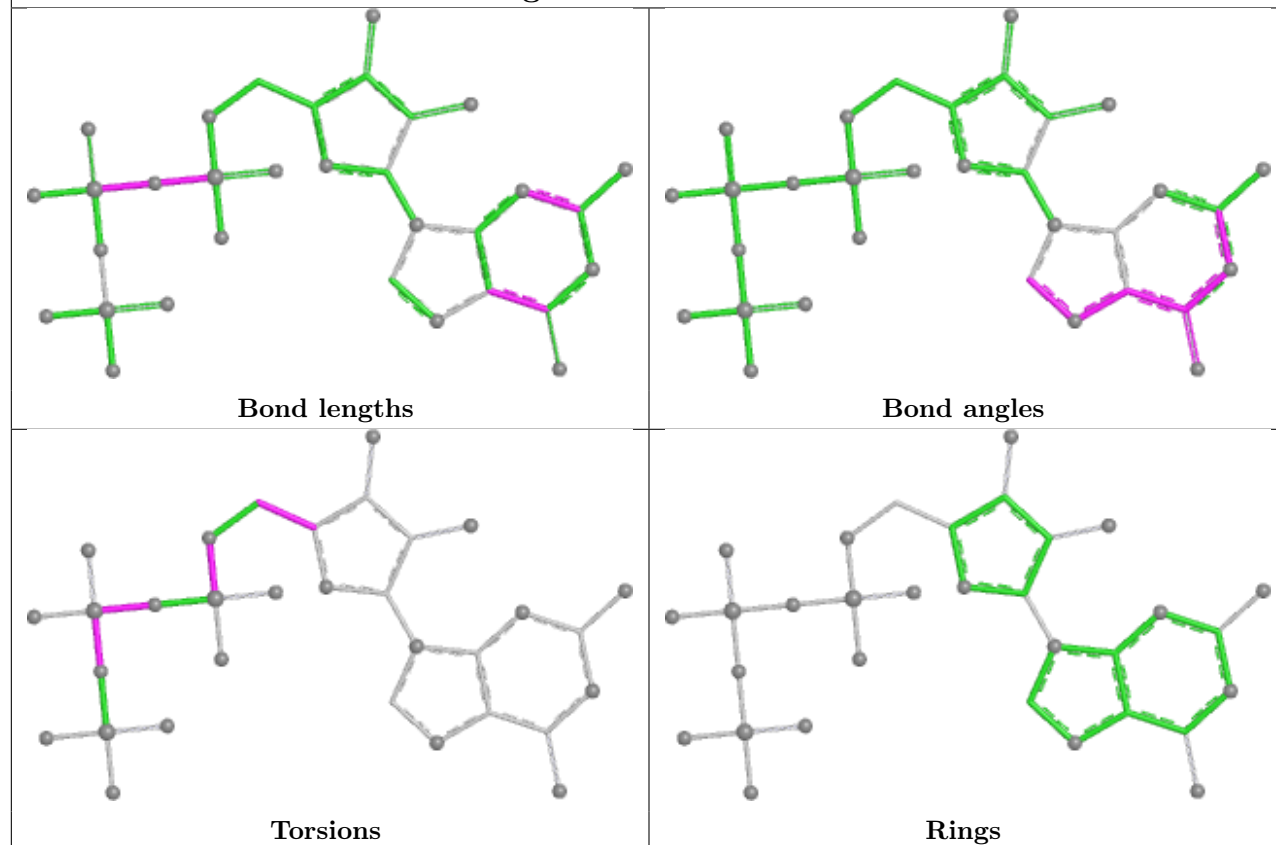




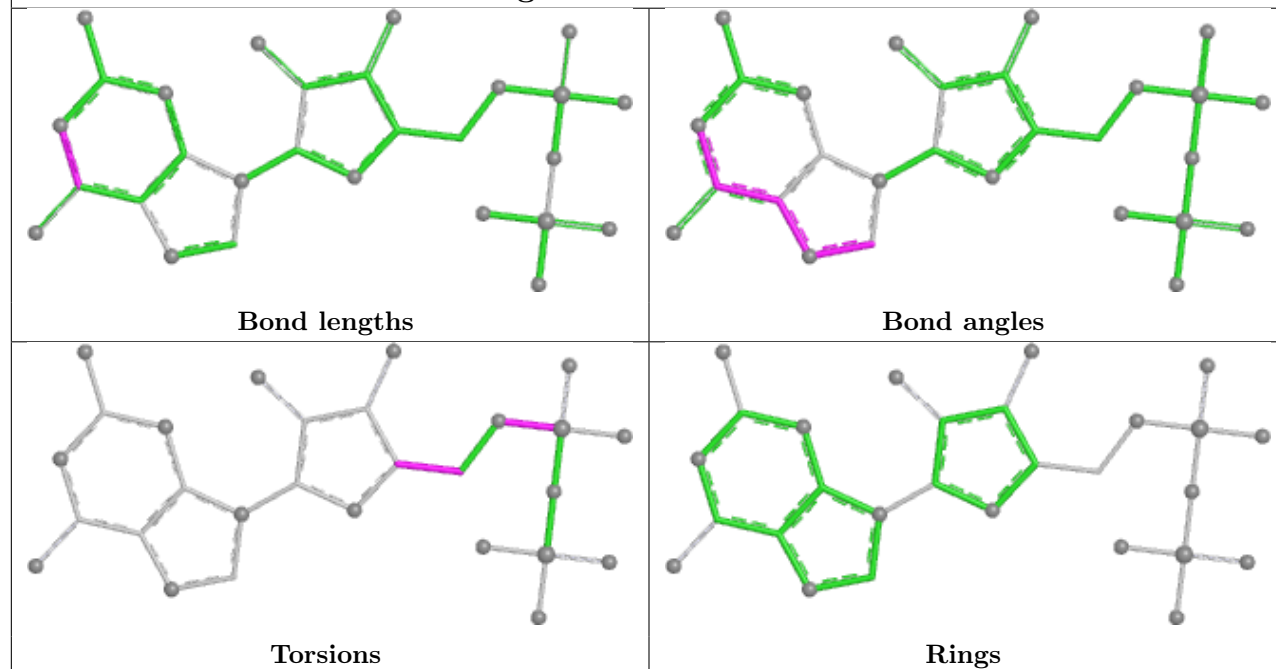


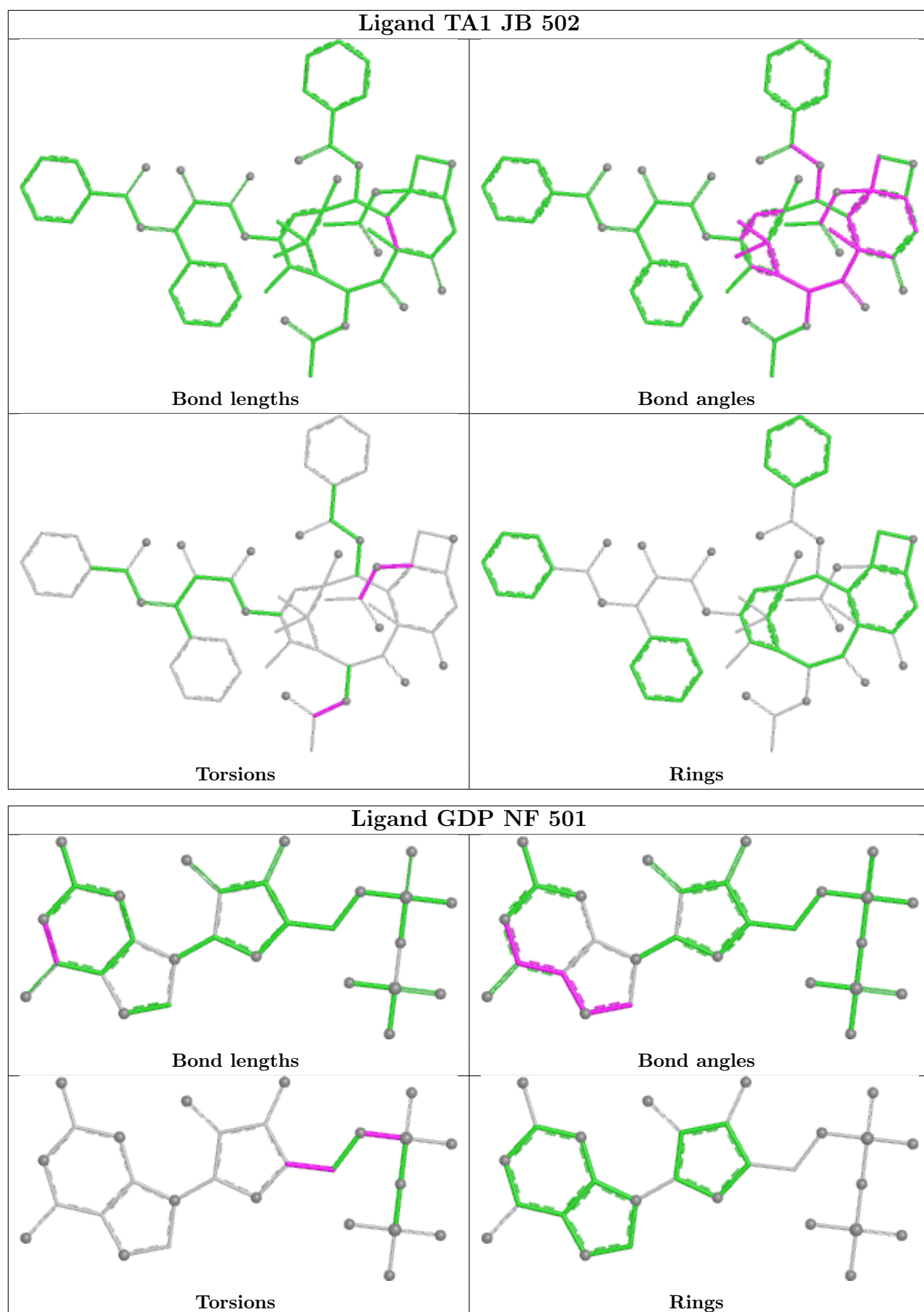


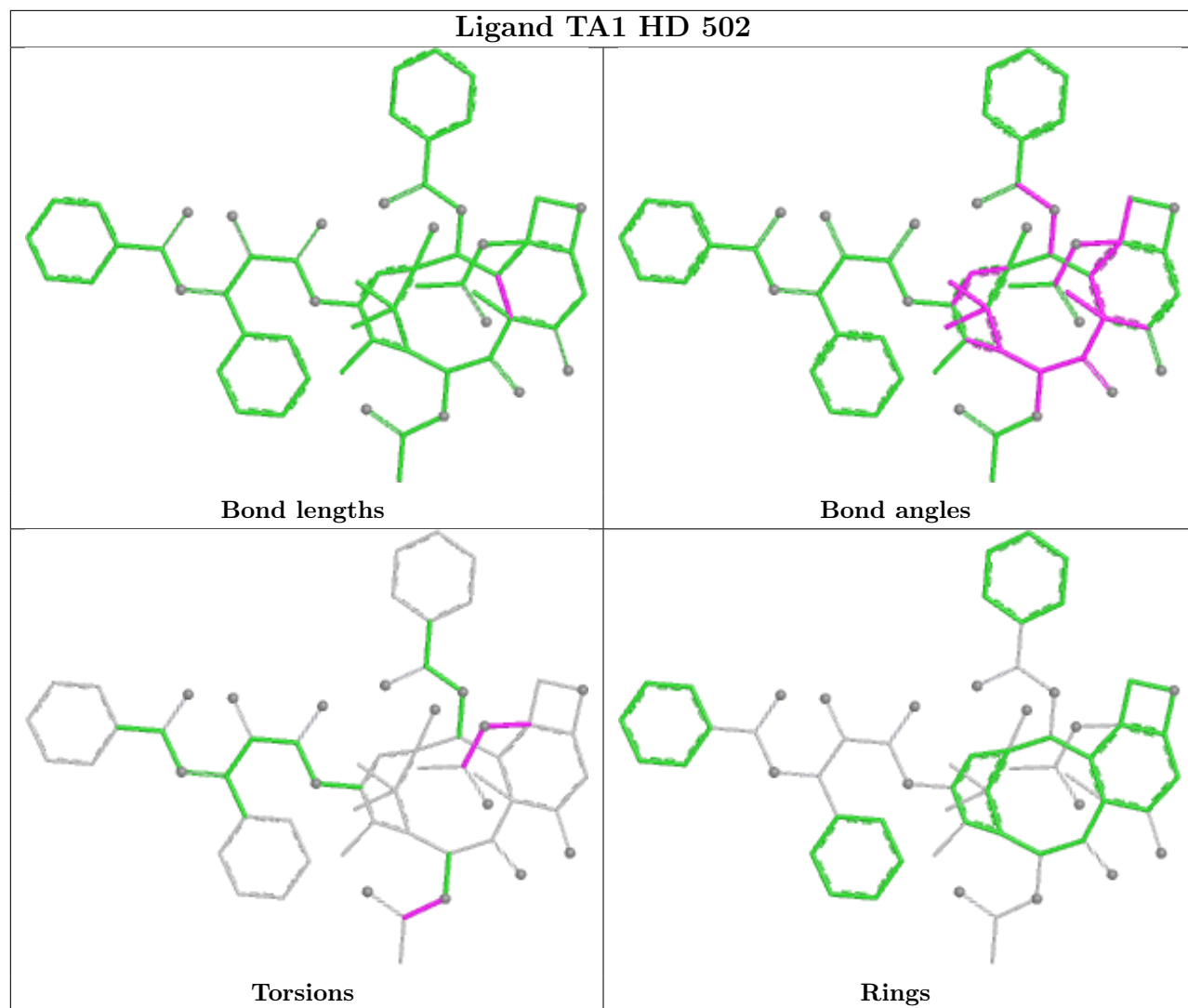
## Ligand GTP JE 501



## Ligand GDP DF 501

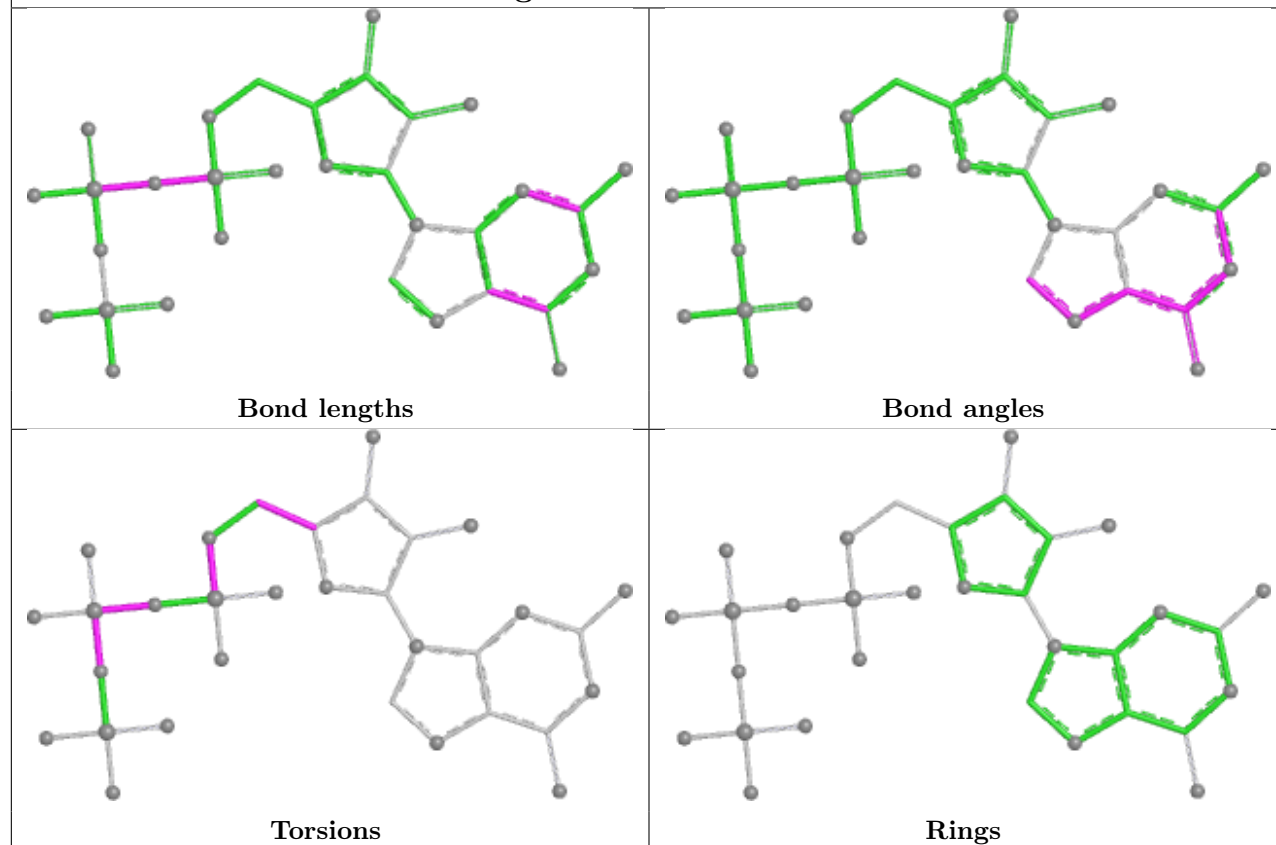




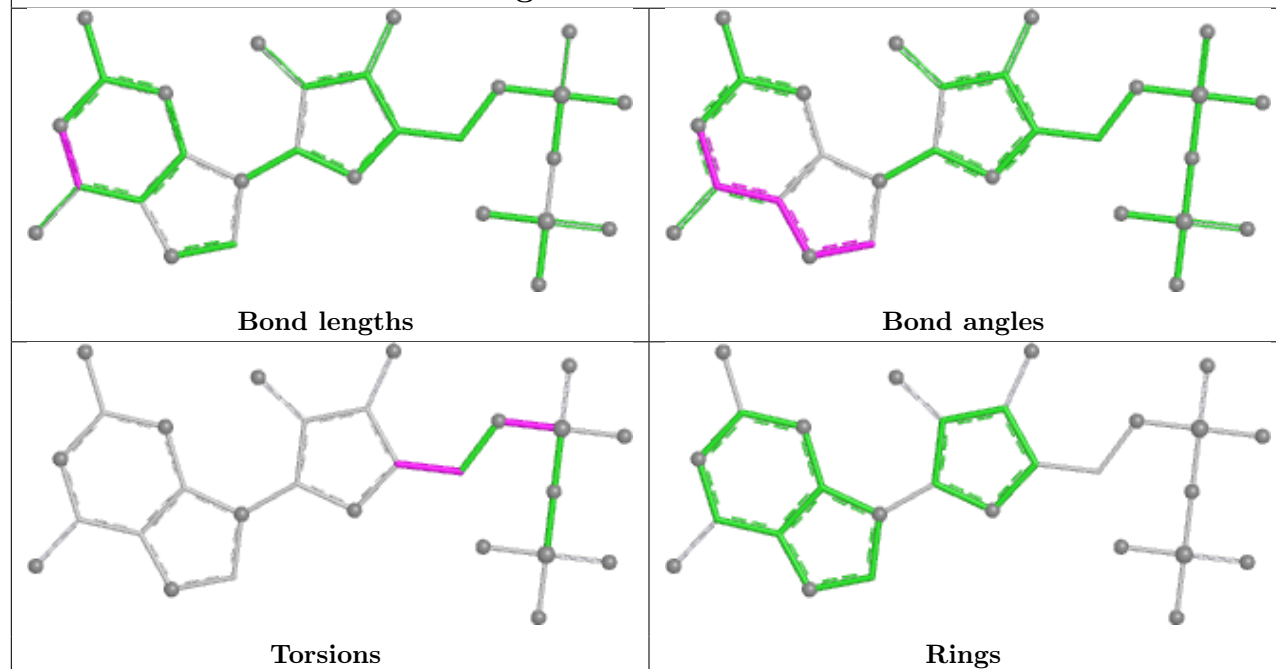


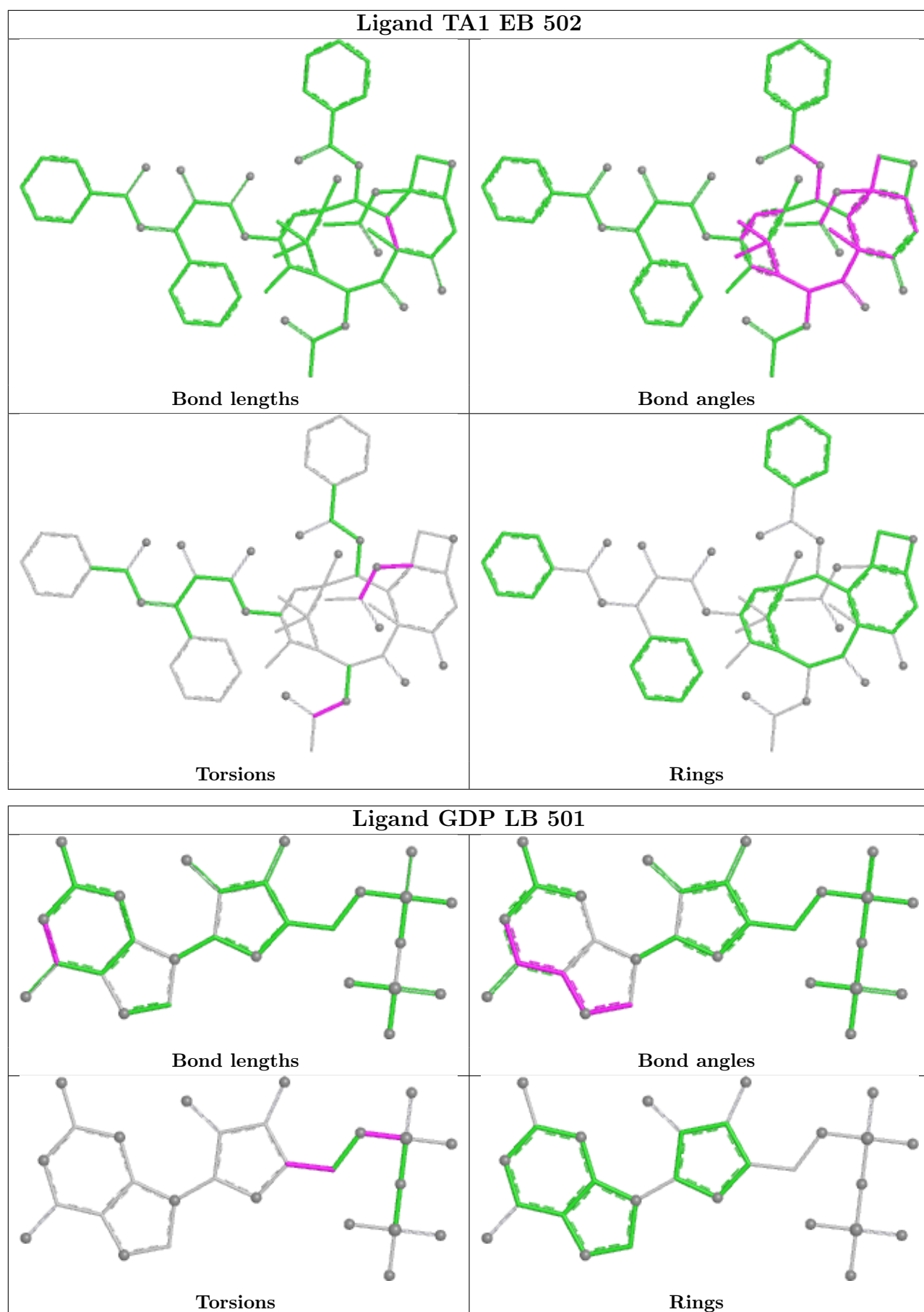


## Ligand GTP ME 501

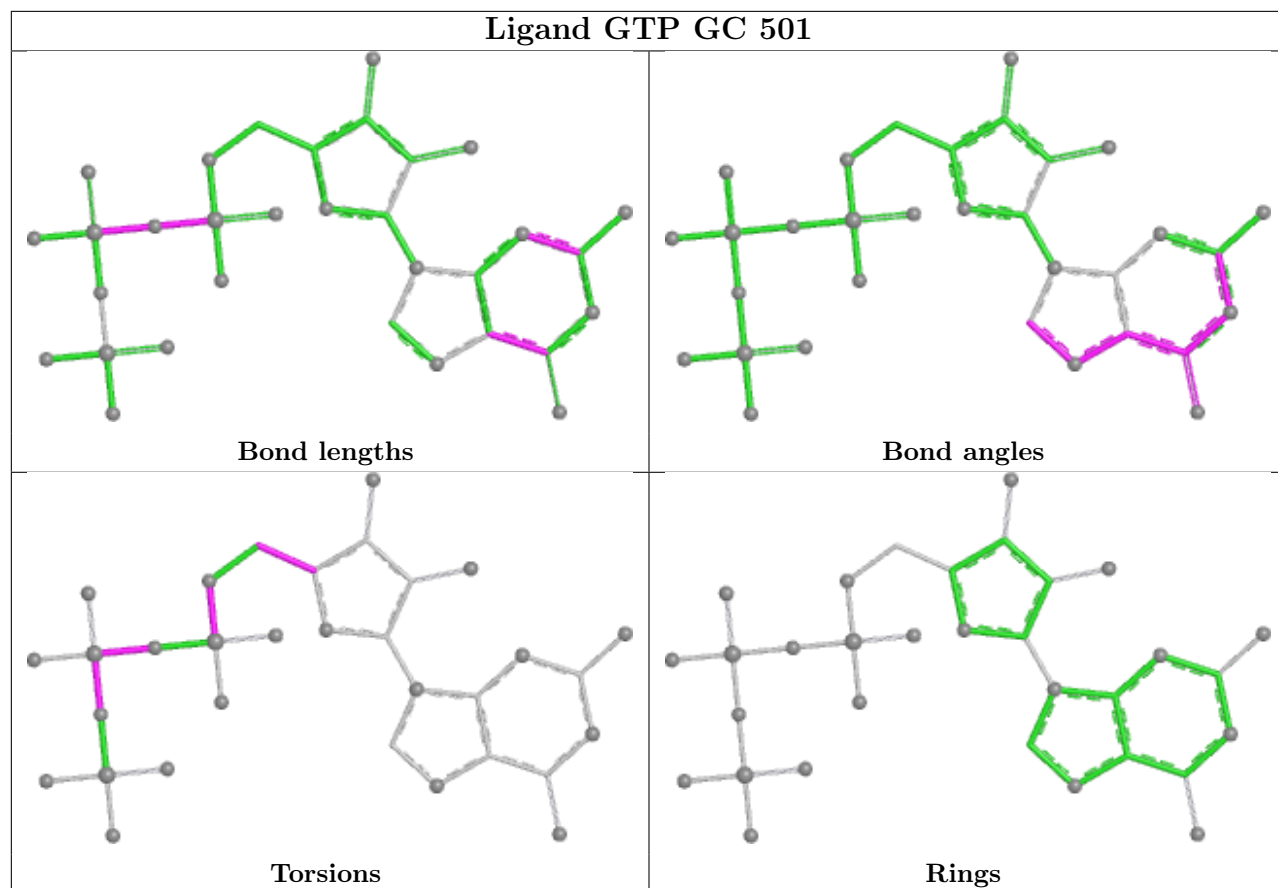


## Ligand GDP AB 501

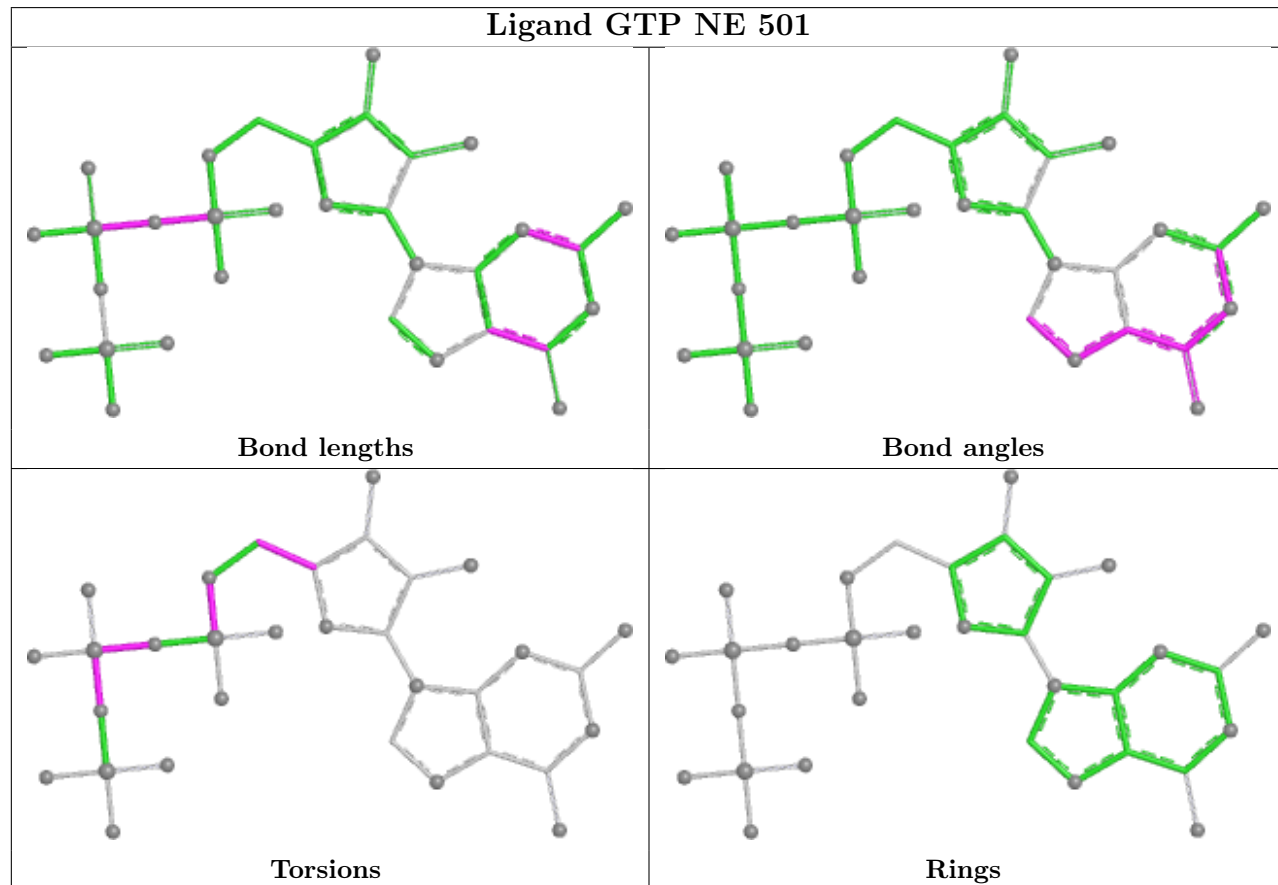




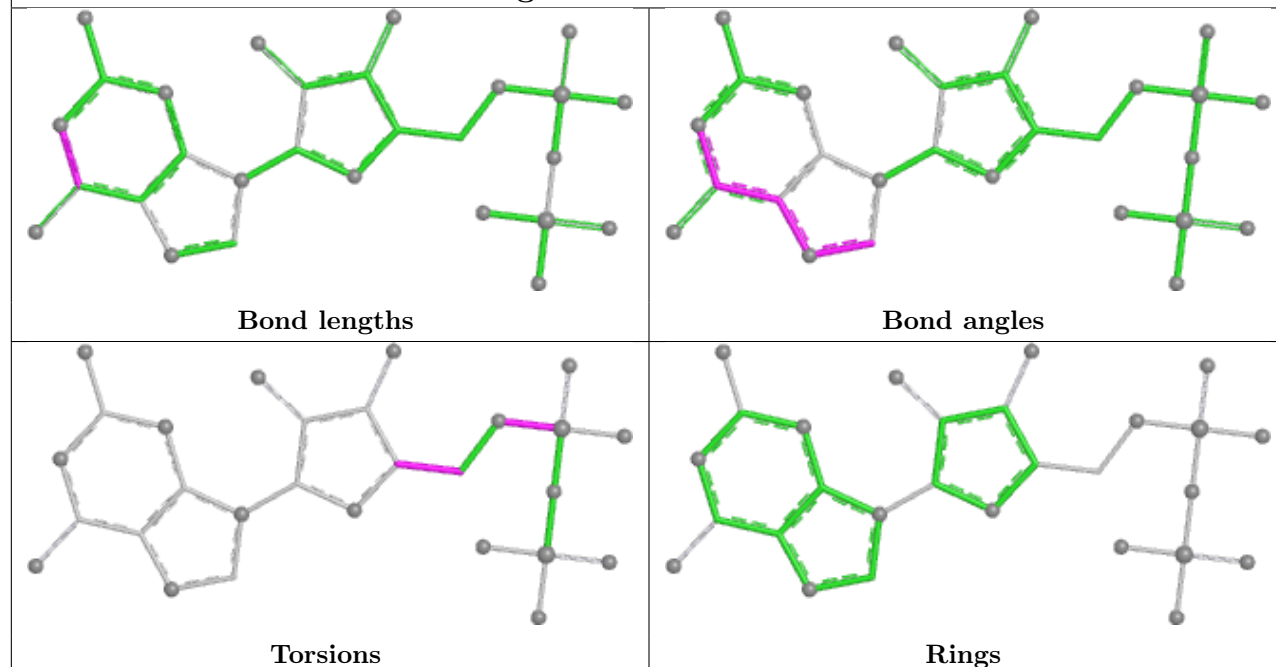
## Ligand GTP GC 501



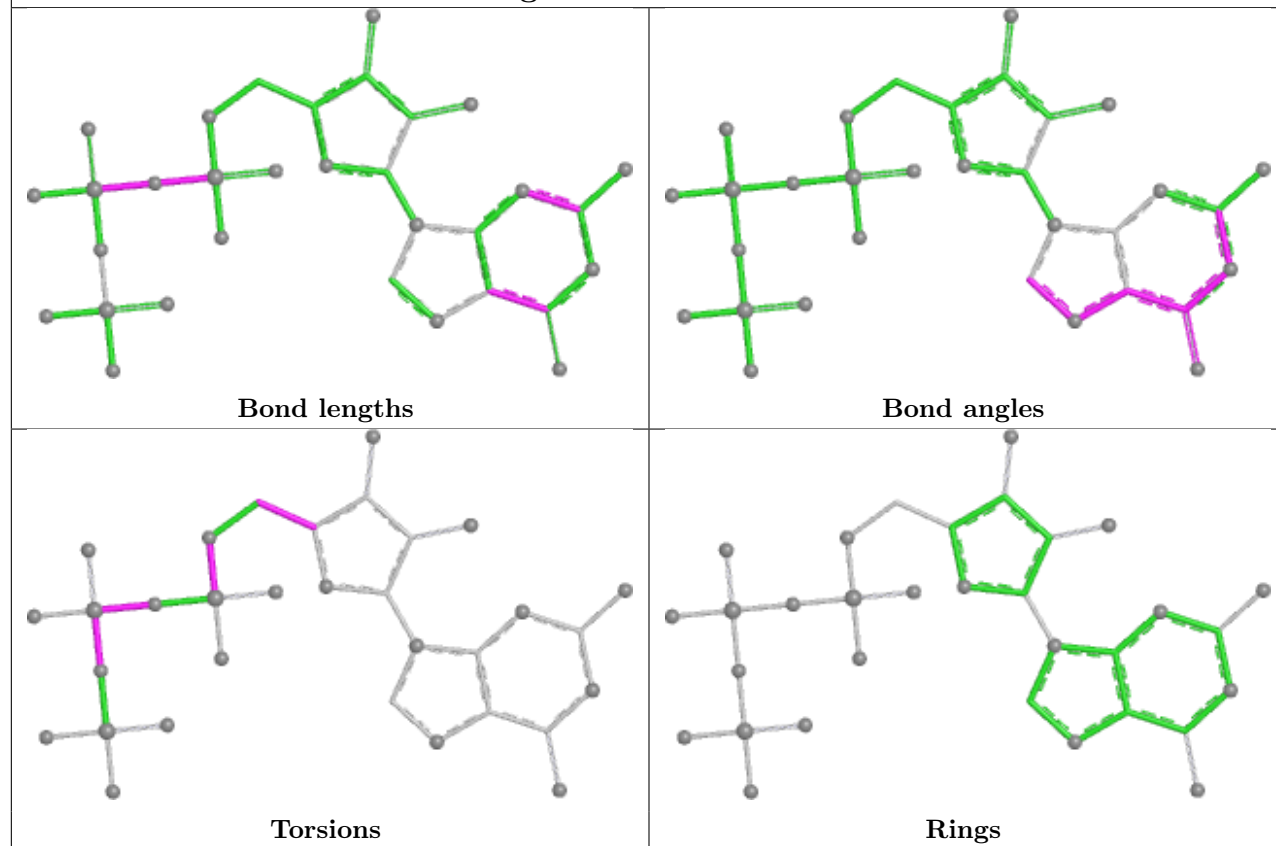
## Ligand GTP NE 501



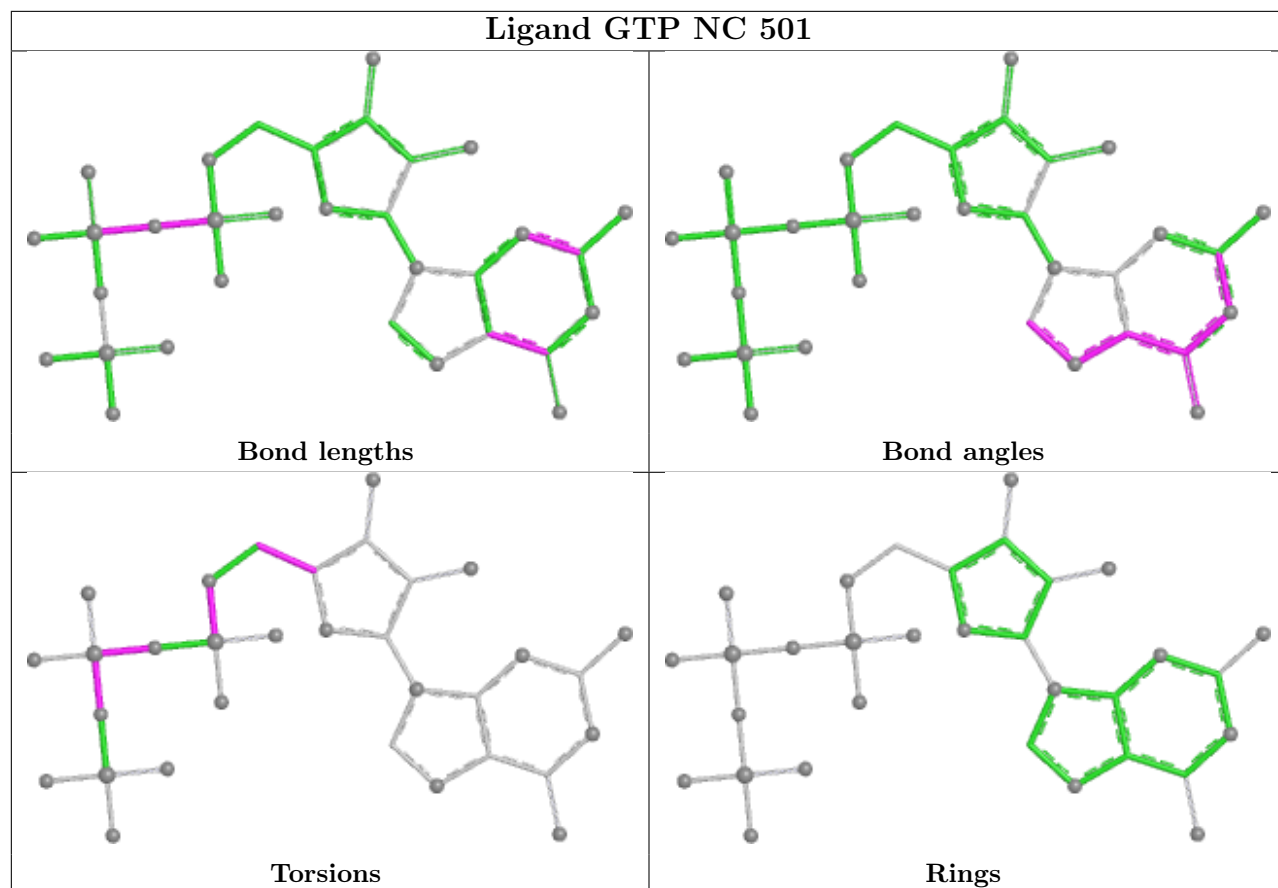
## Ligand GDP KF 501



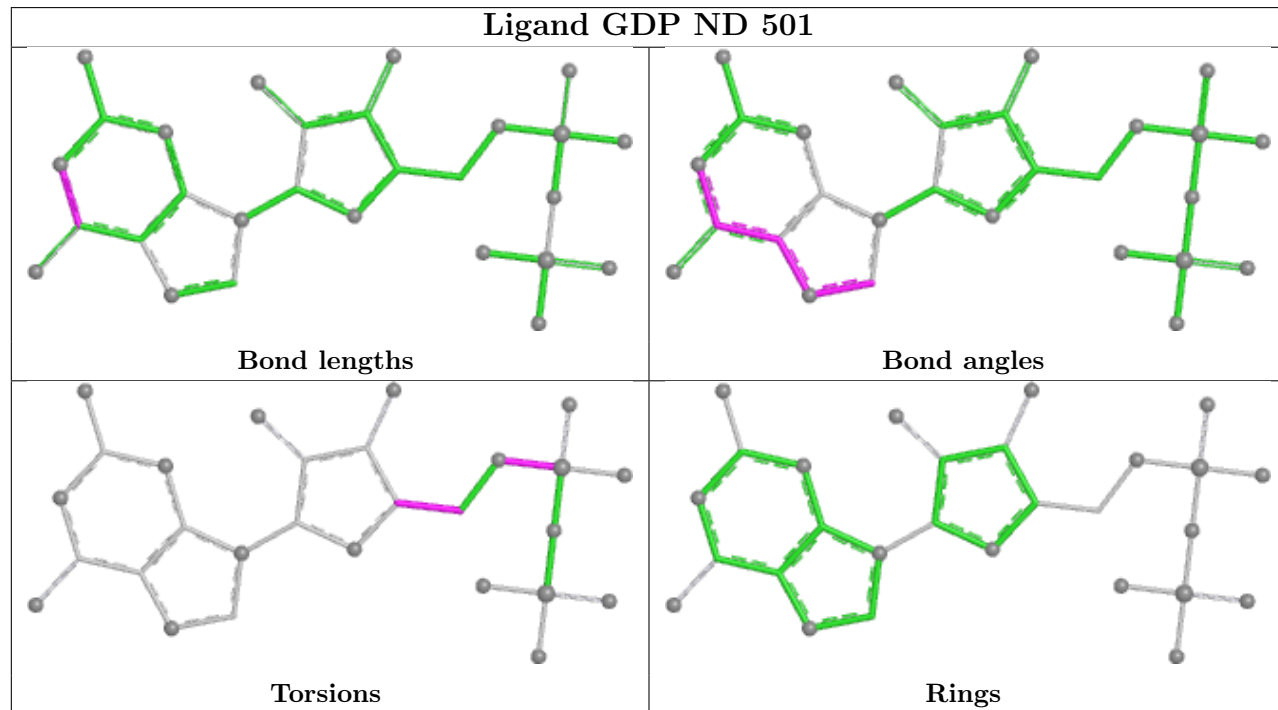
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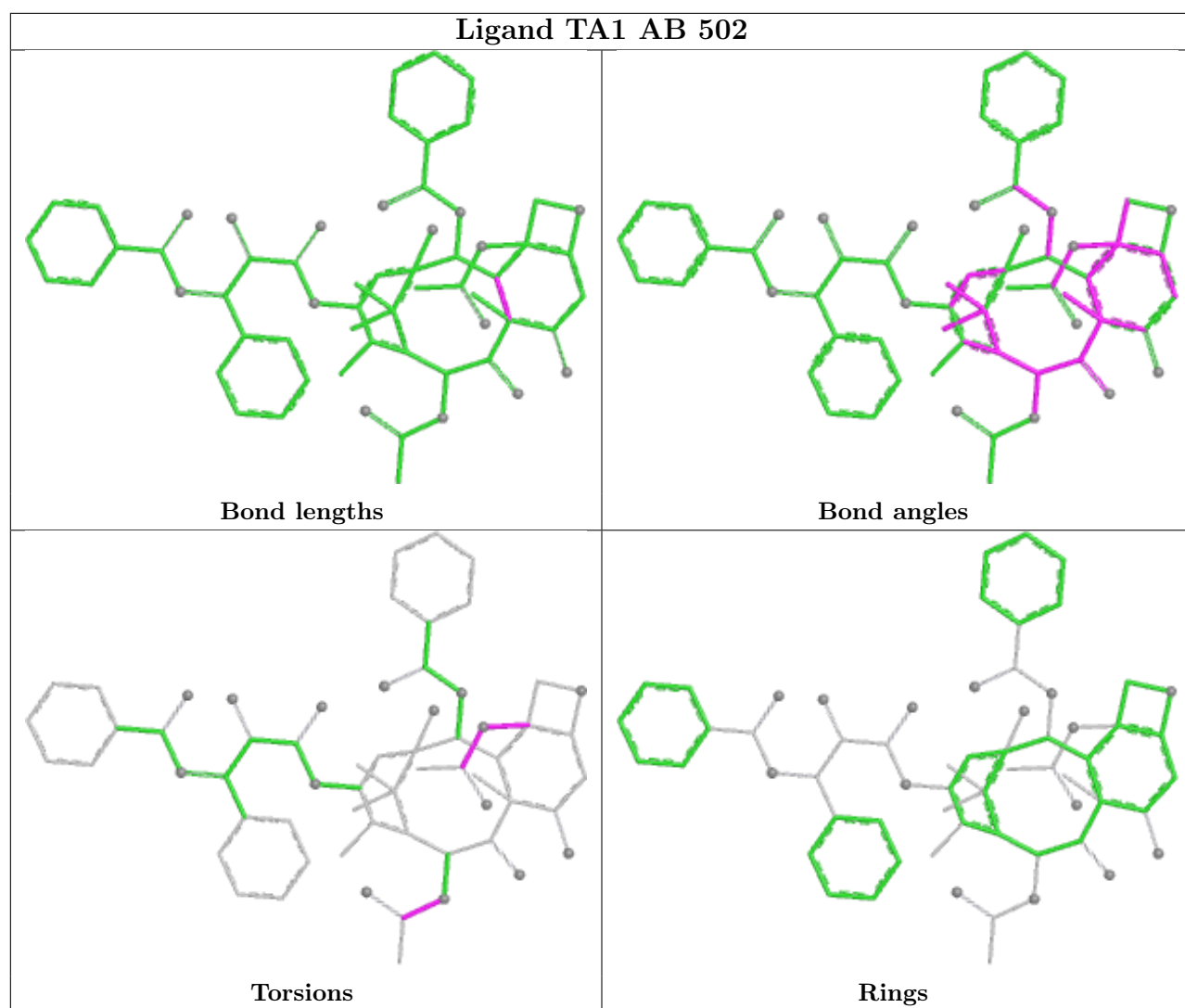


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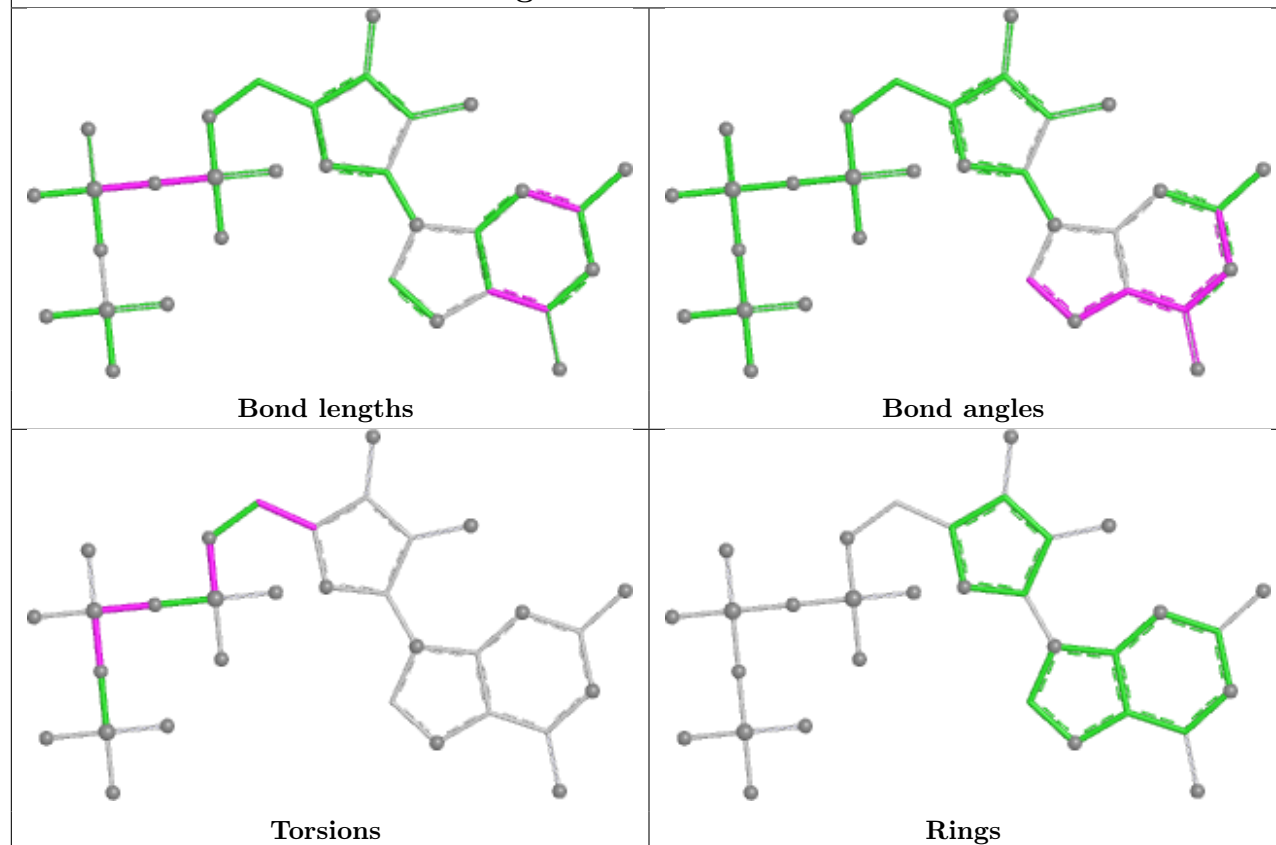


## Ligand GDP ND 501

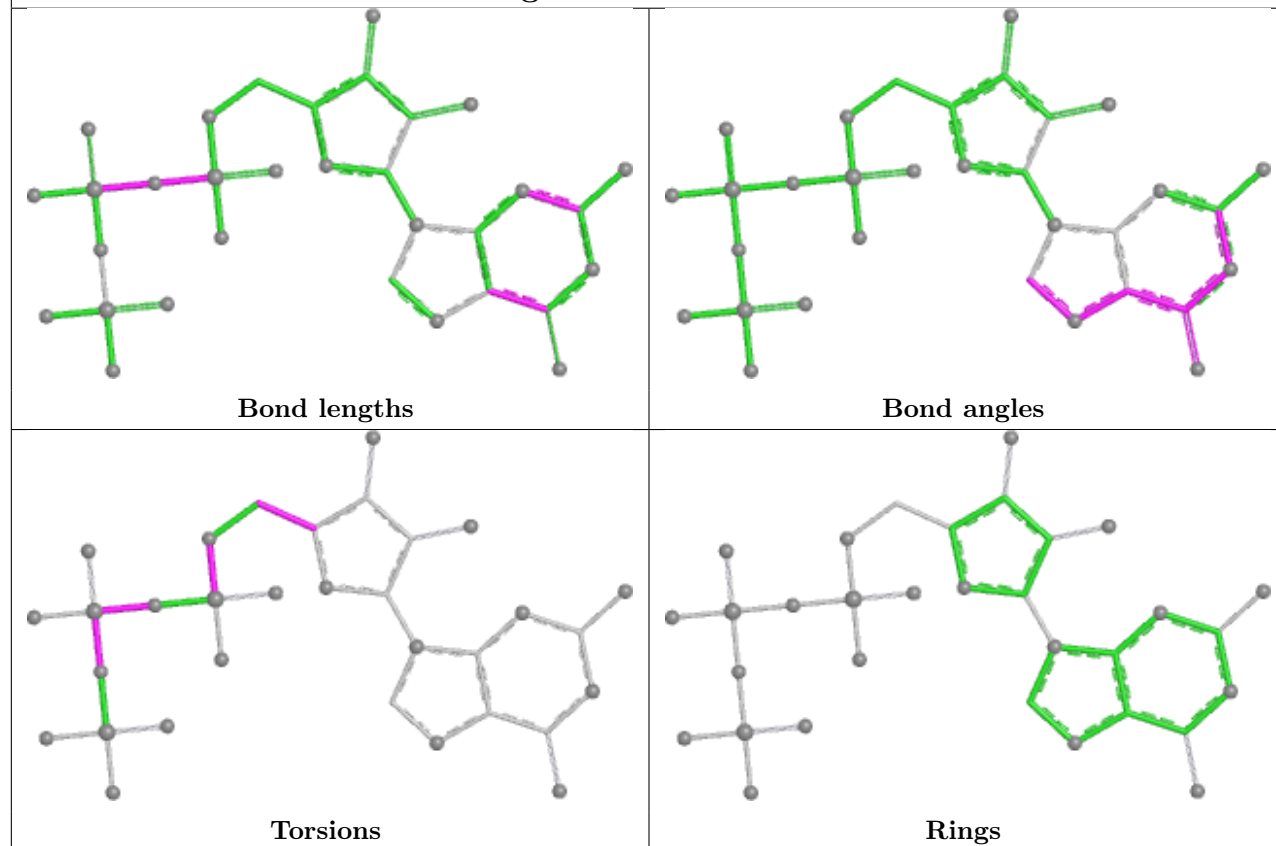




## Ligand GTP HA 501

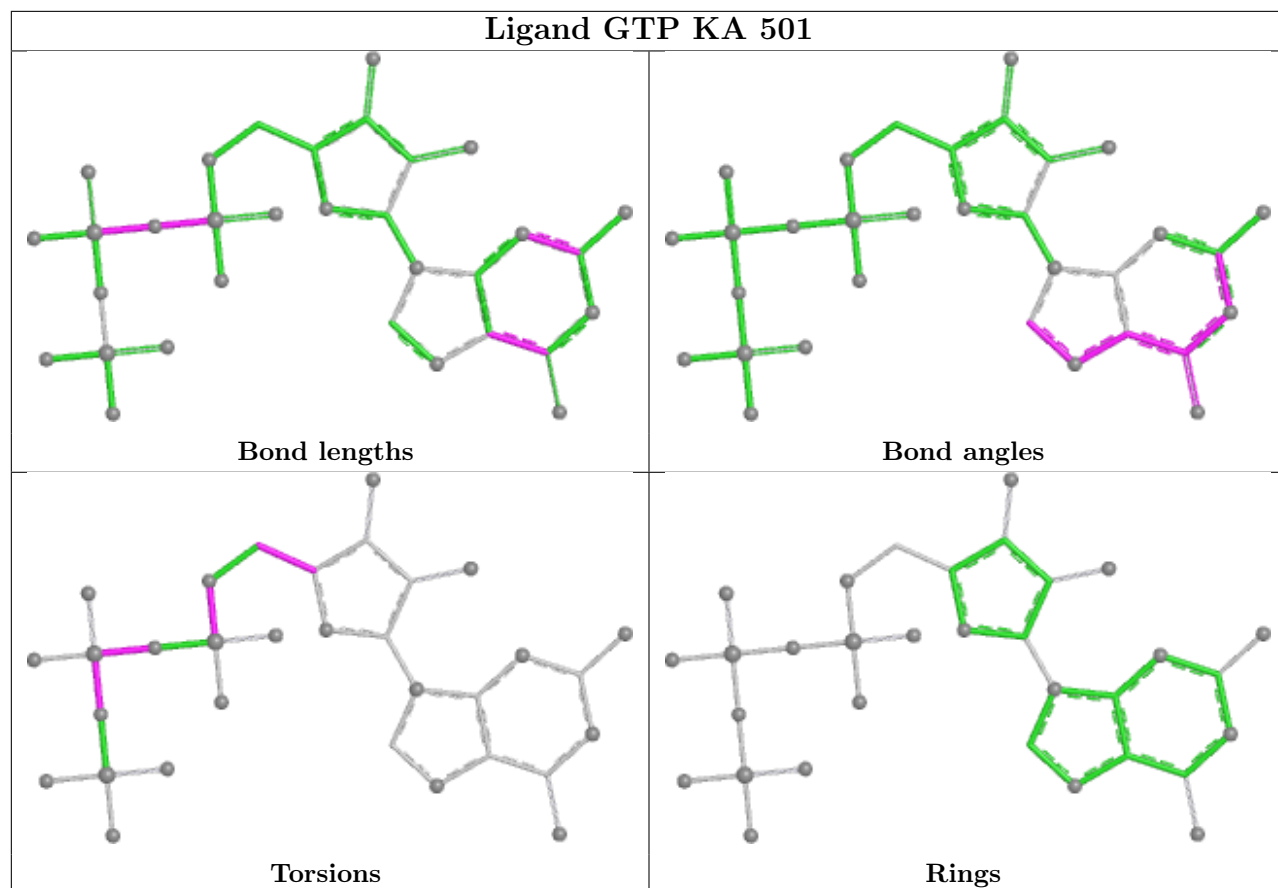


## Ligand GTP JC 501

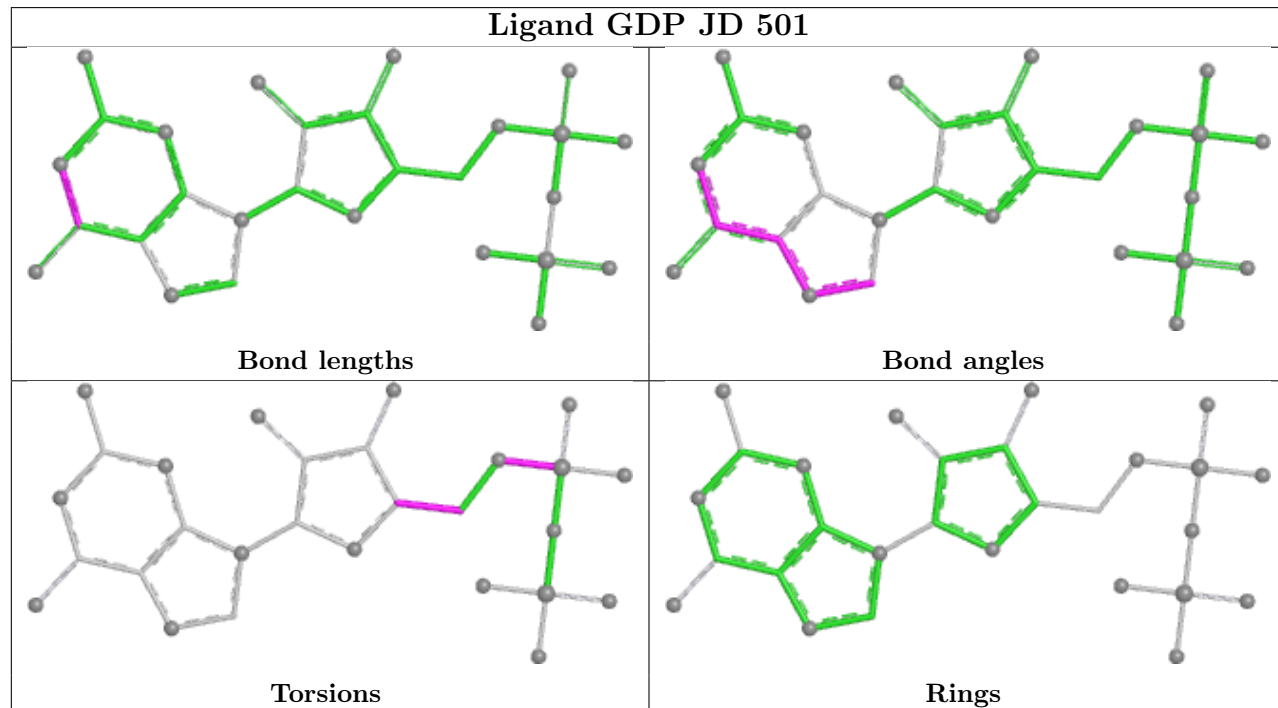


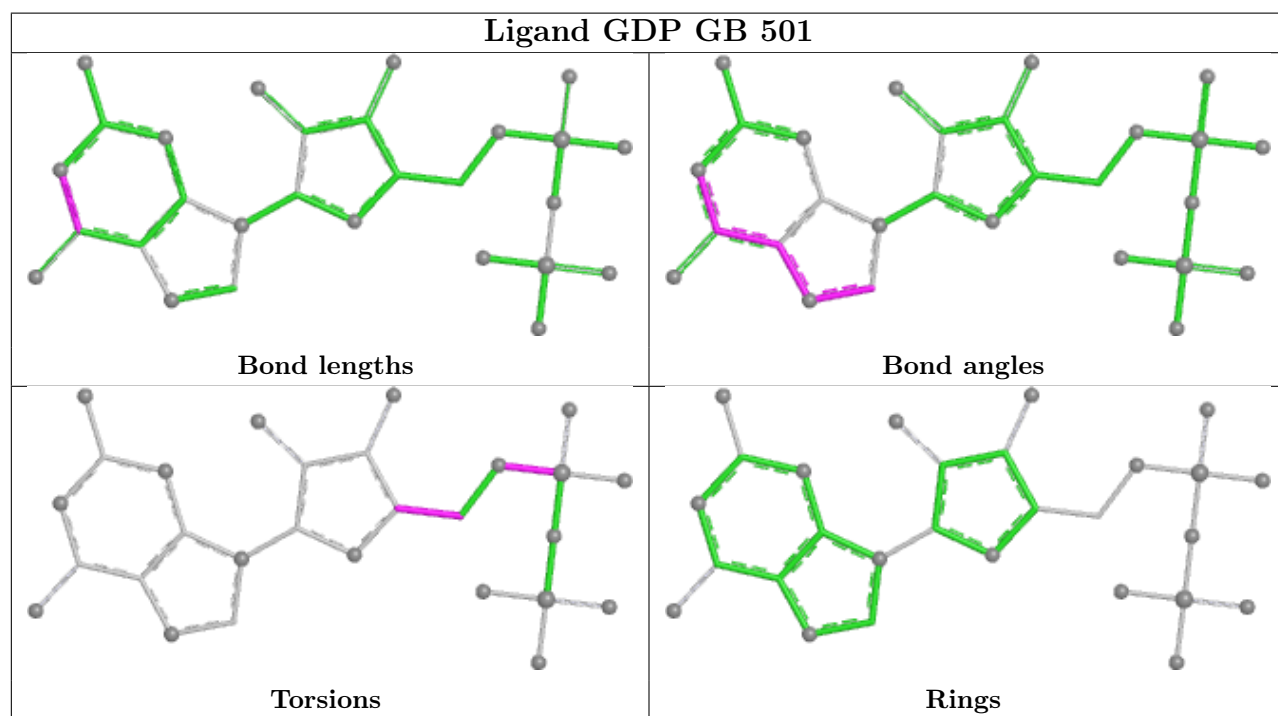
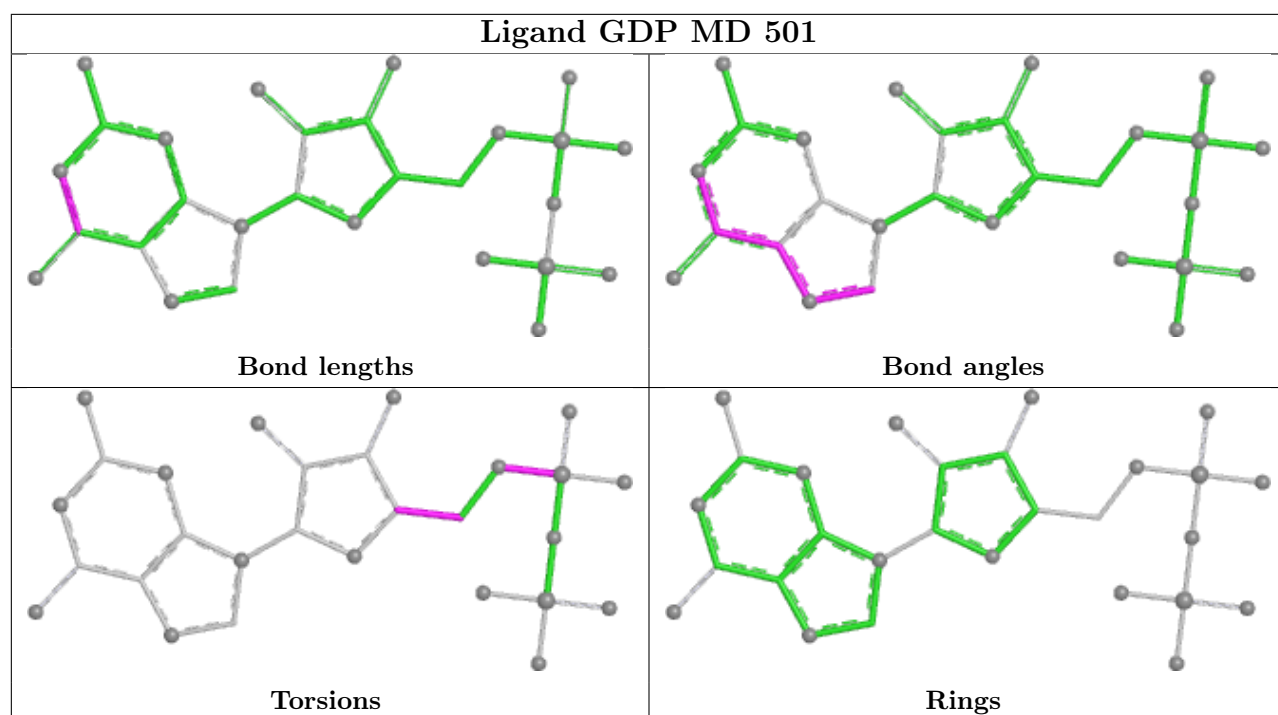


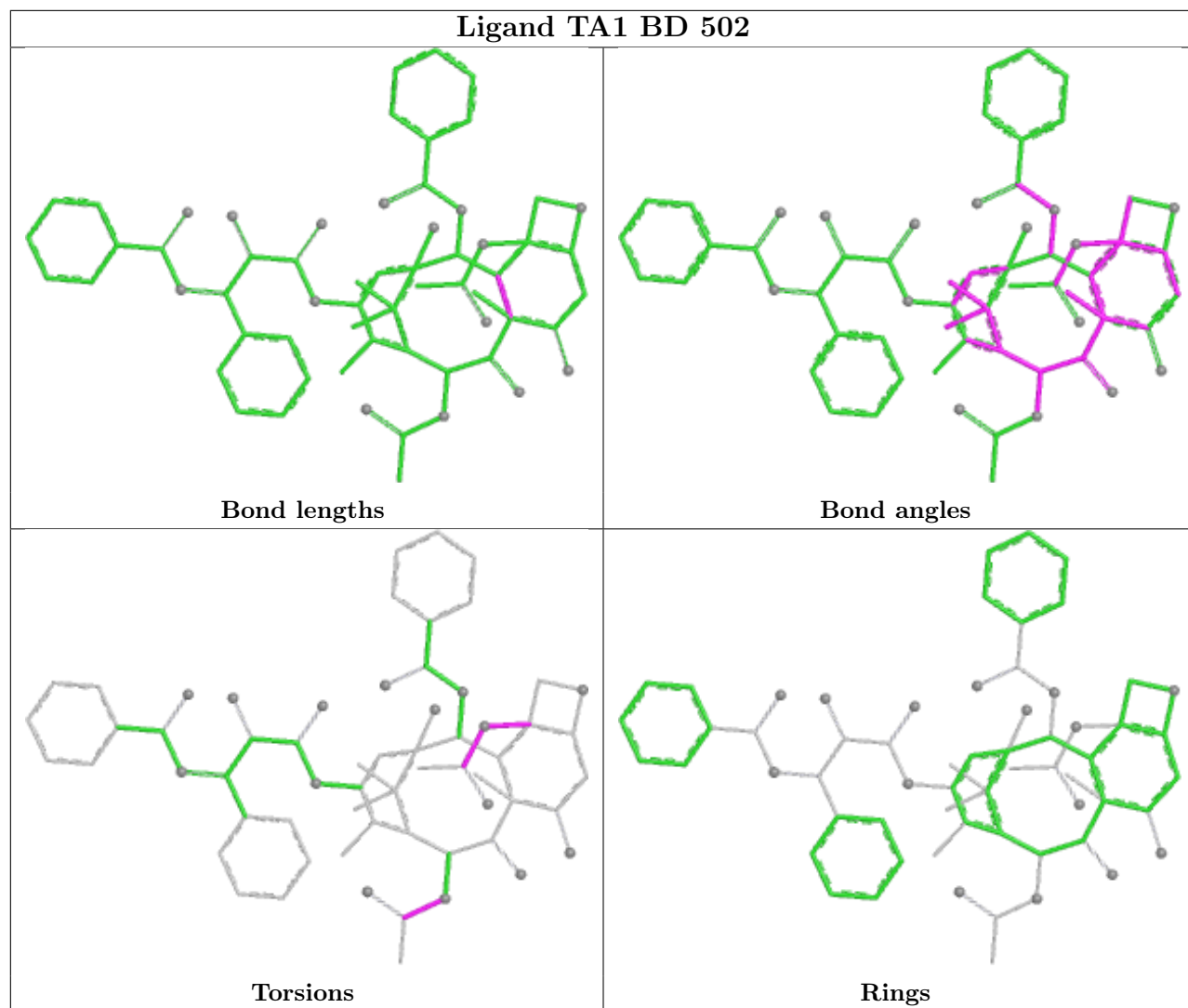
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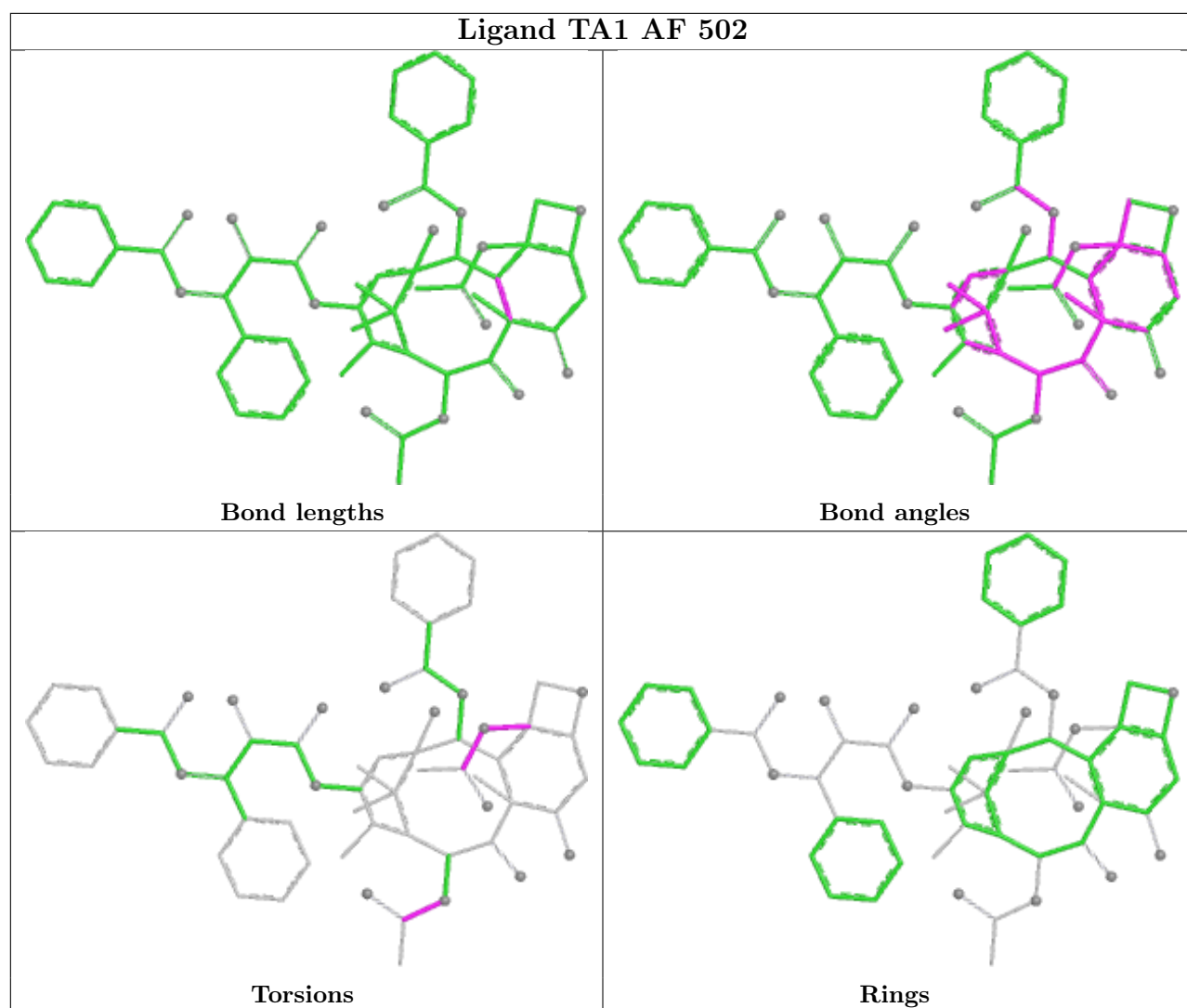


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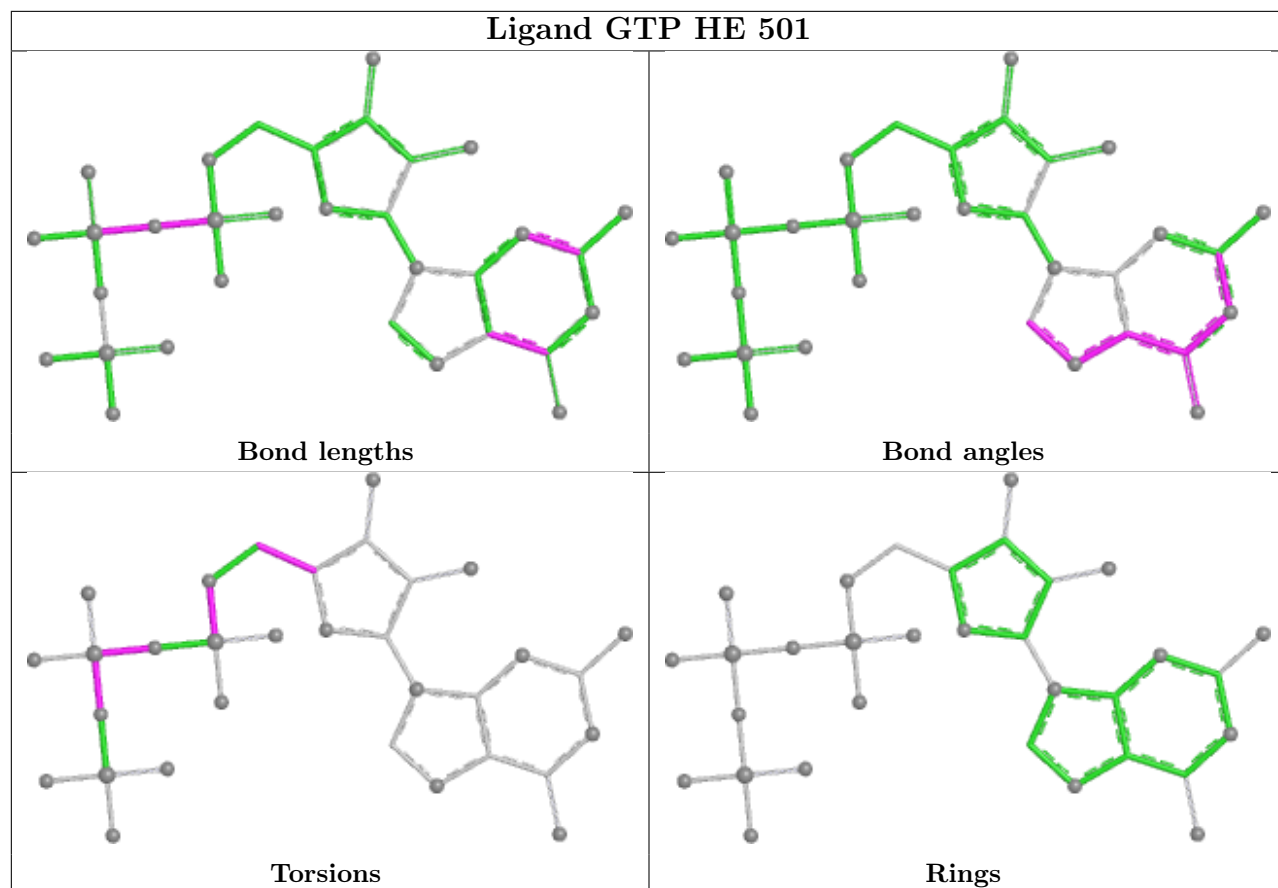




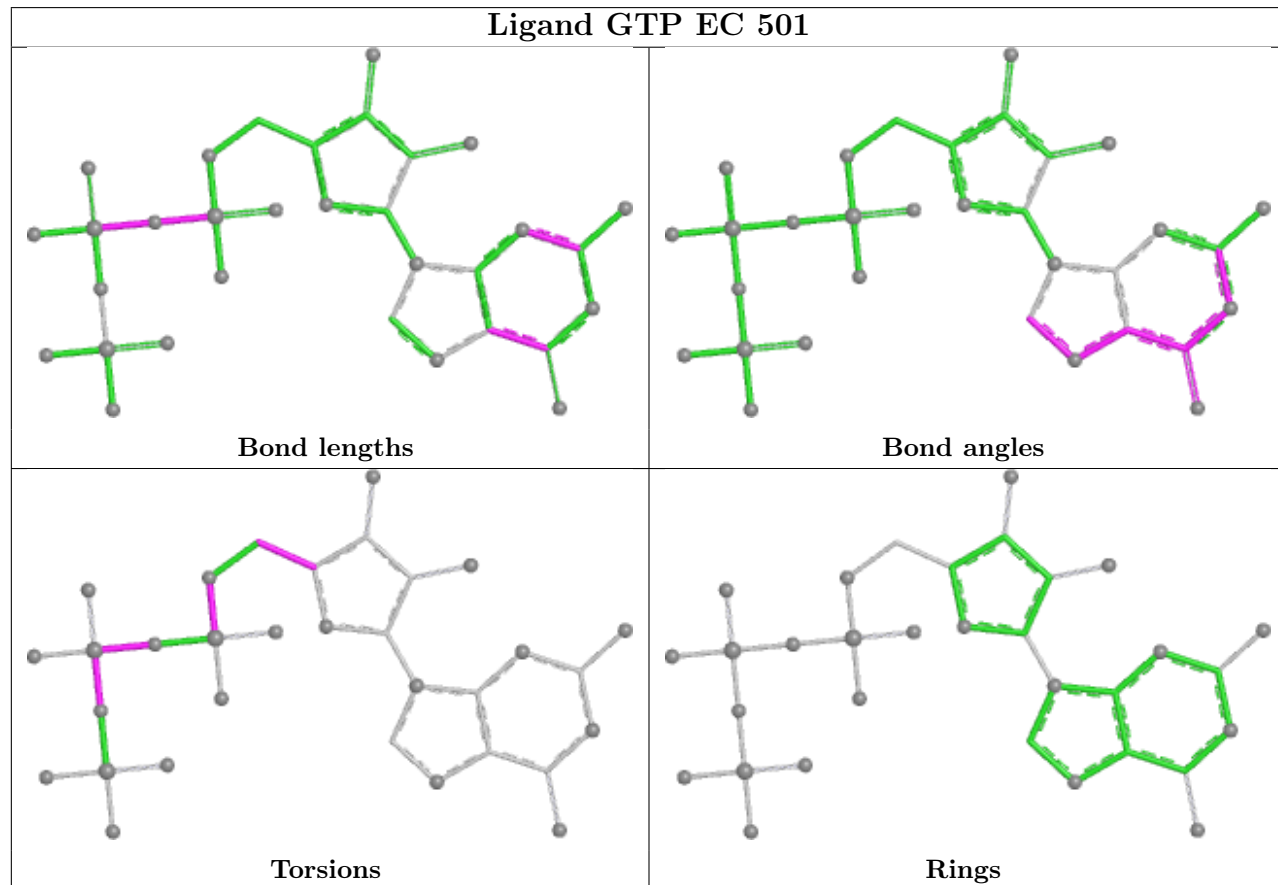


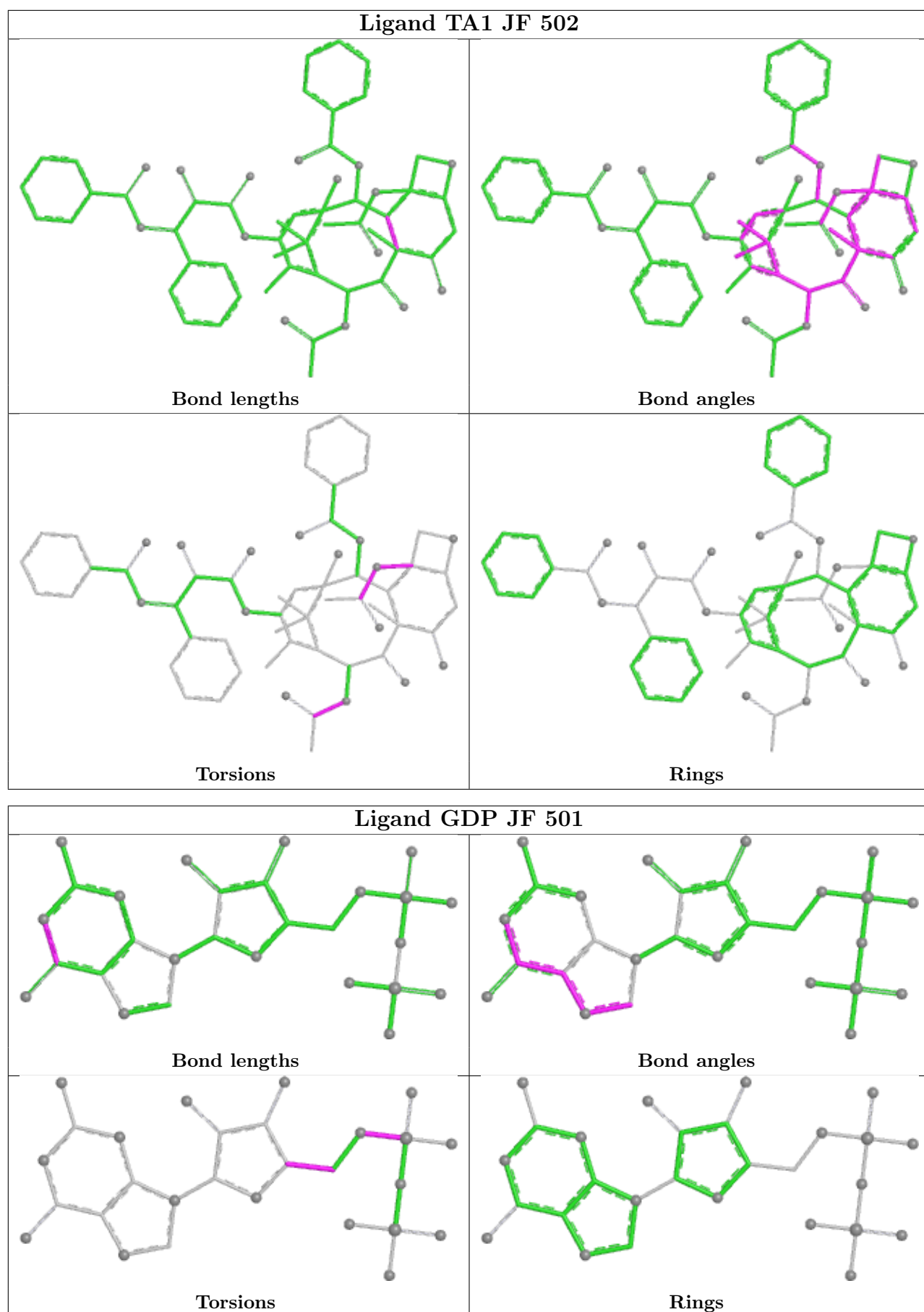


## Ligand GTP HE 501

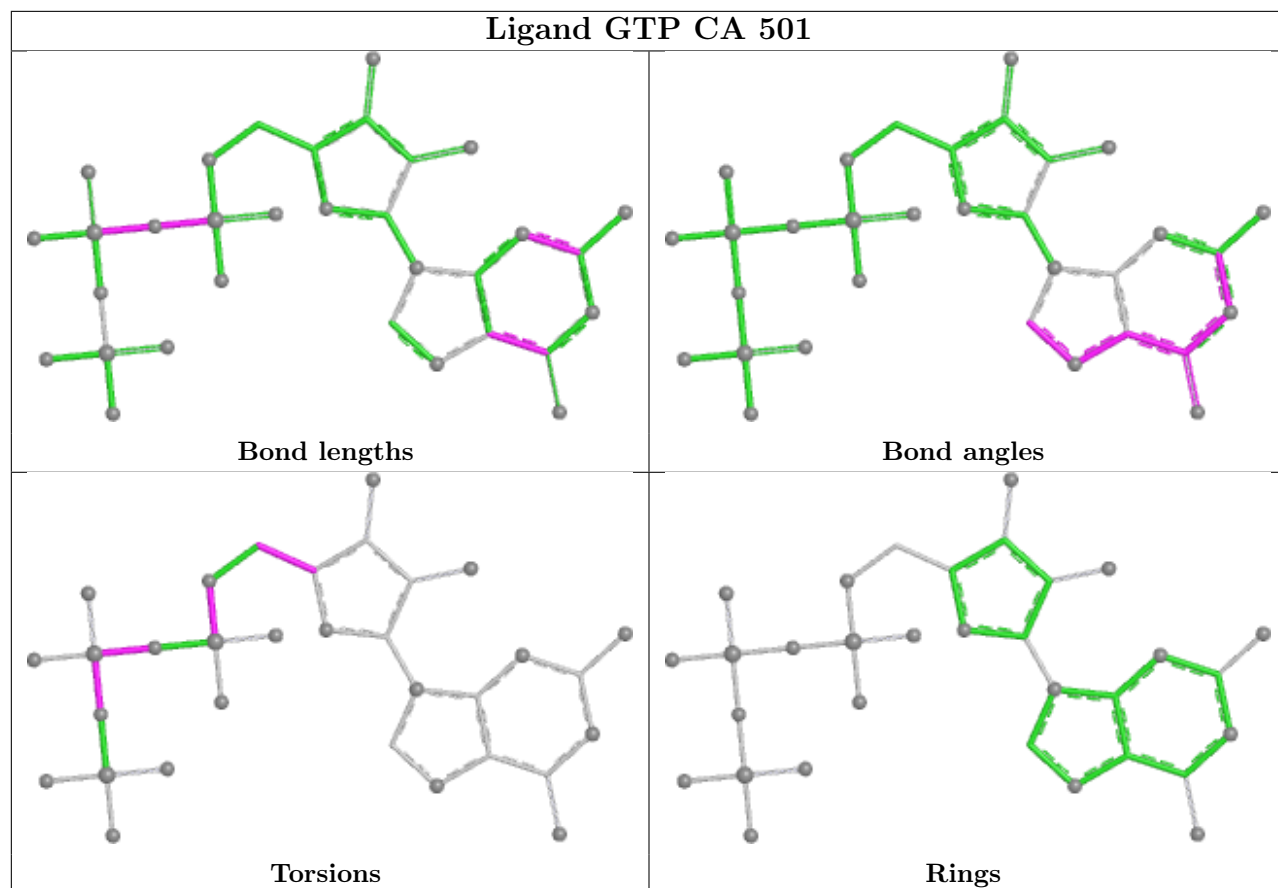


## Ligand GTP EC 501

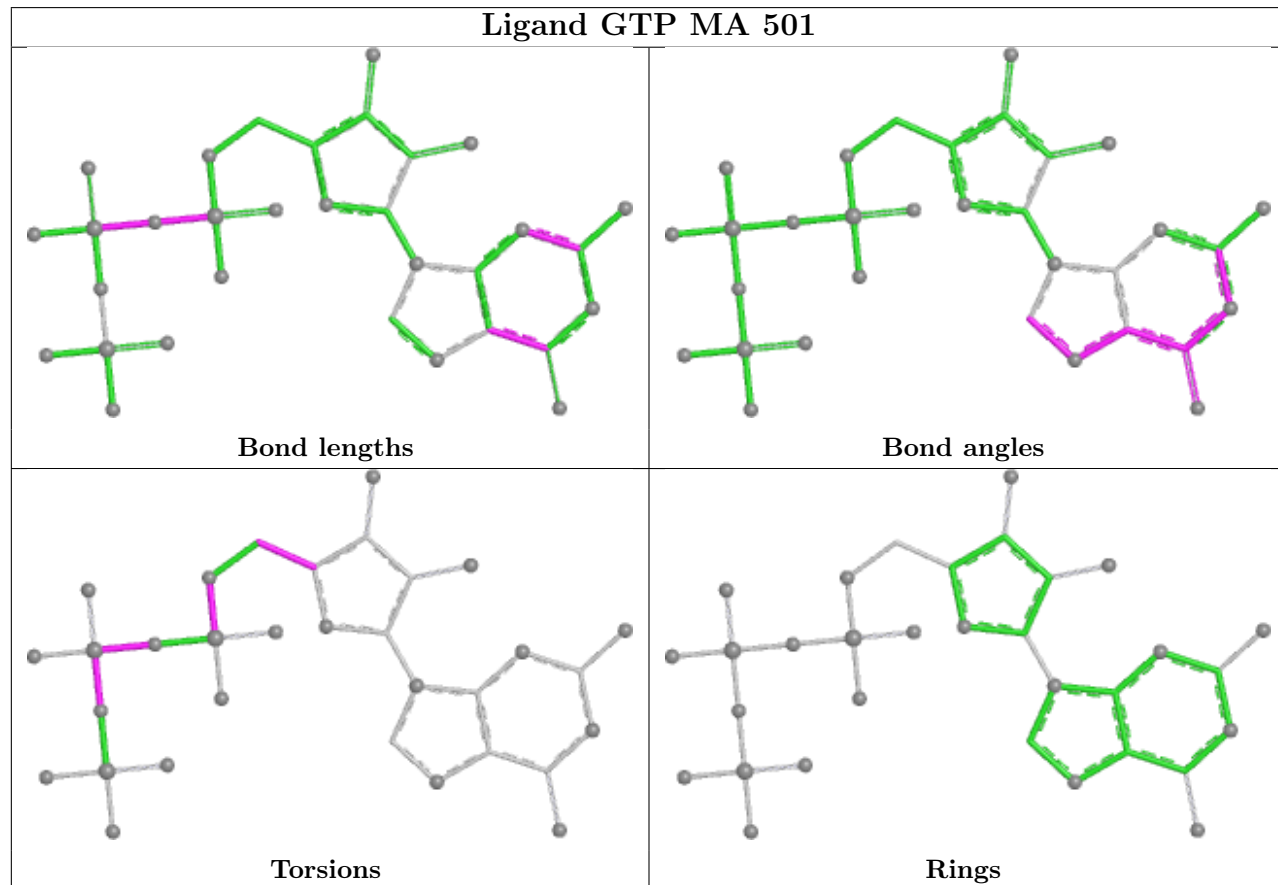




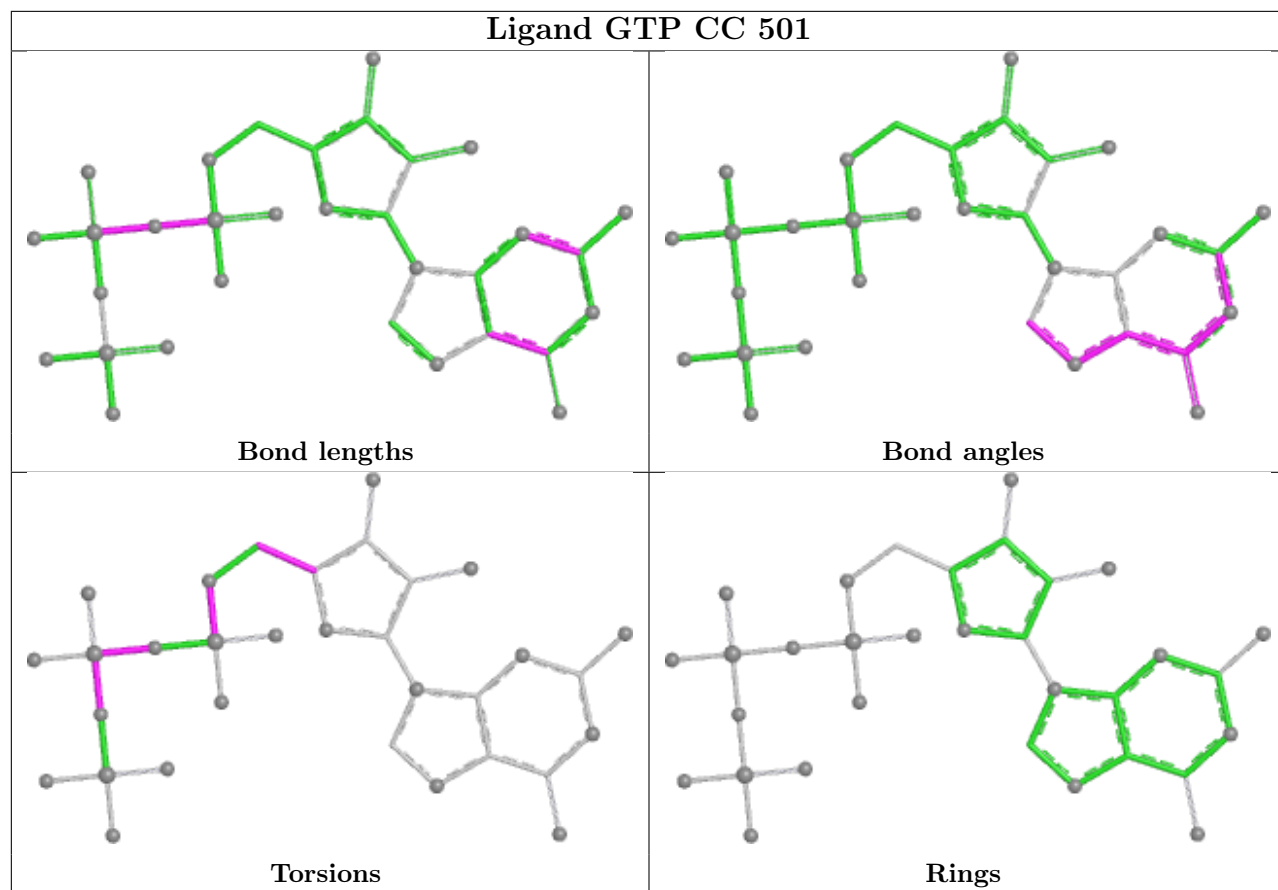
## Ligand GTP CA 501



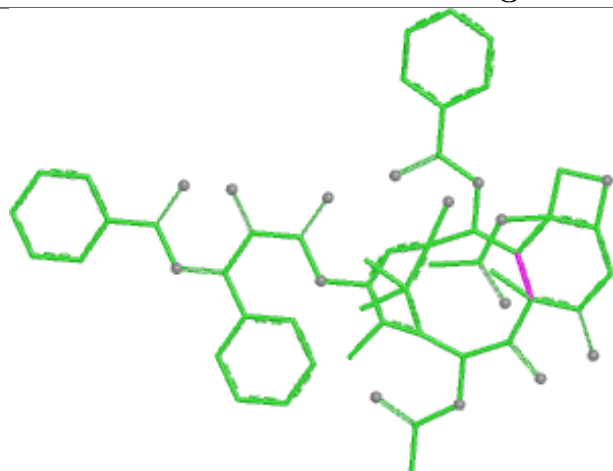
## Ligand GTP MA 501



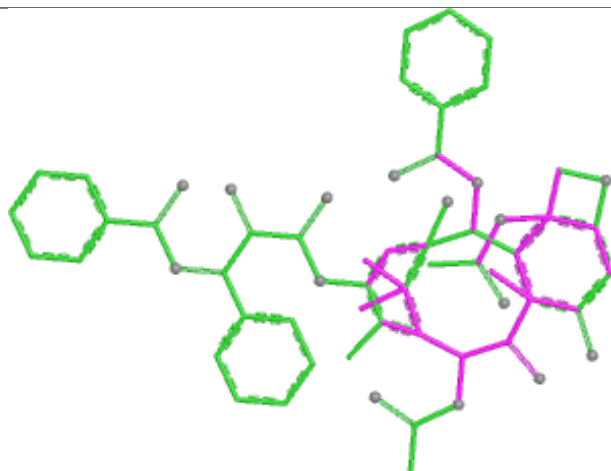




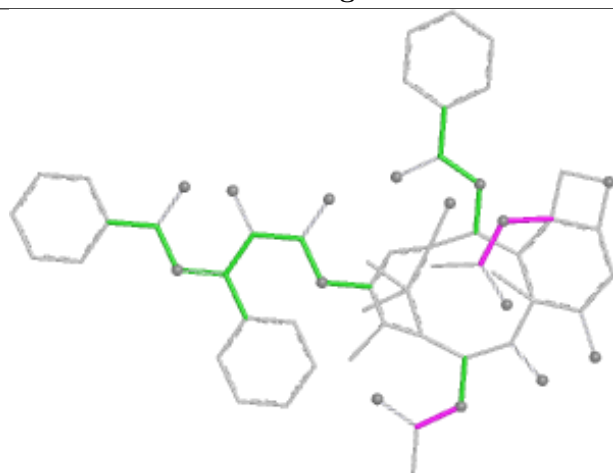
## Ligand TA1 MD 502



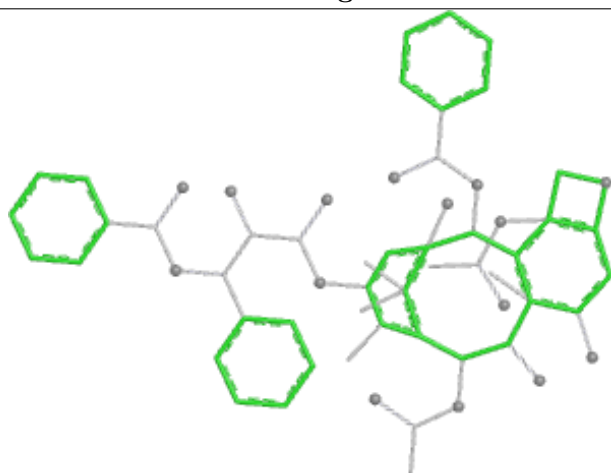
Bond lengths



Bond angles

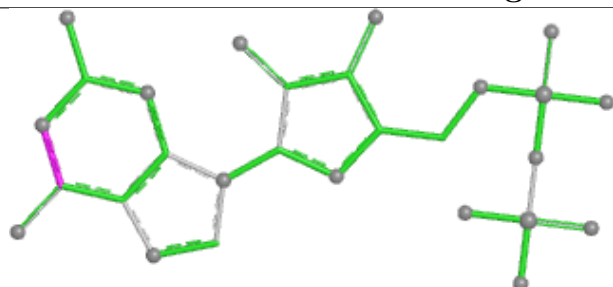


Torsions

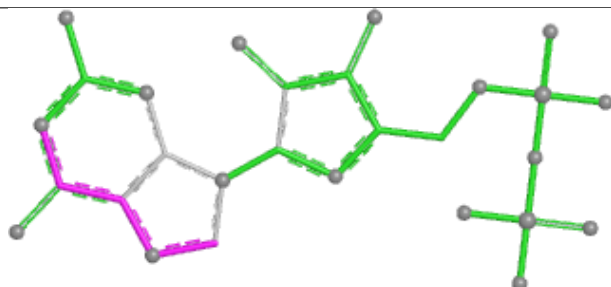


Rings

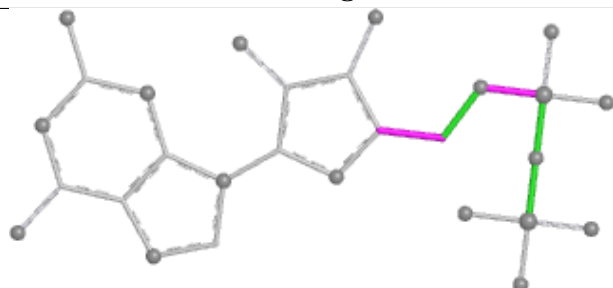
## Ligand GDP IB 501



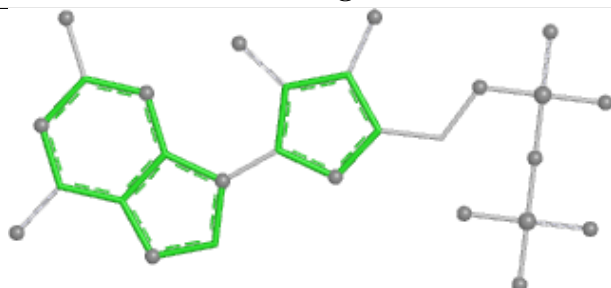
Bond lengths



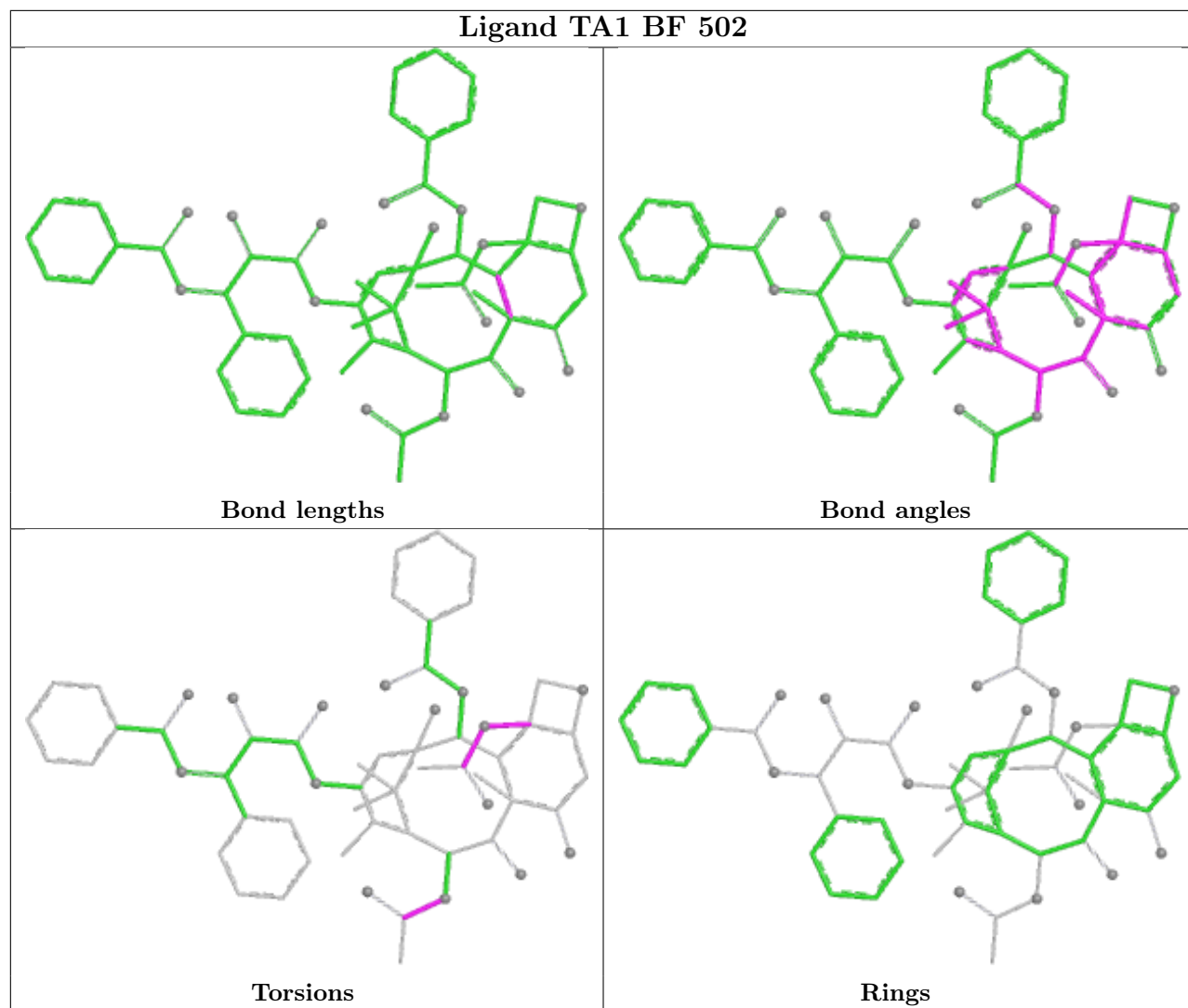
Bond angles

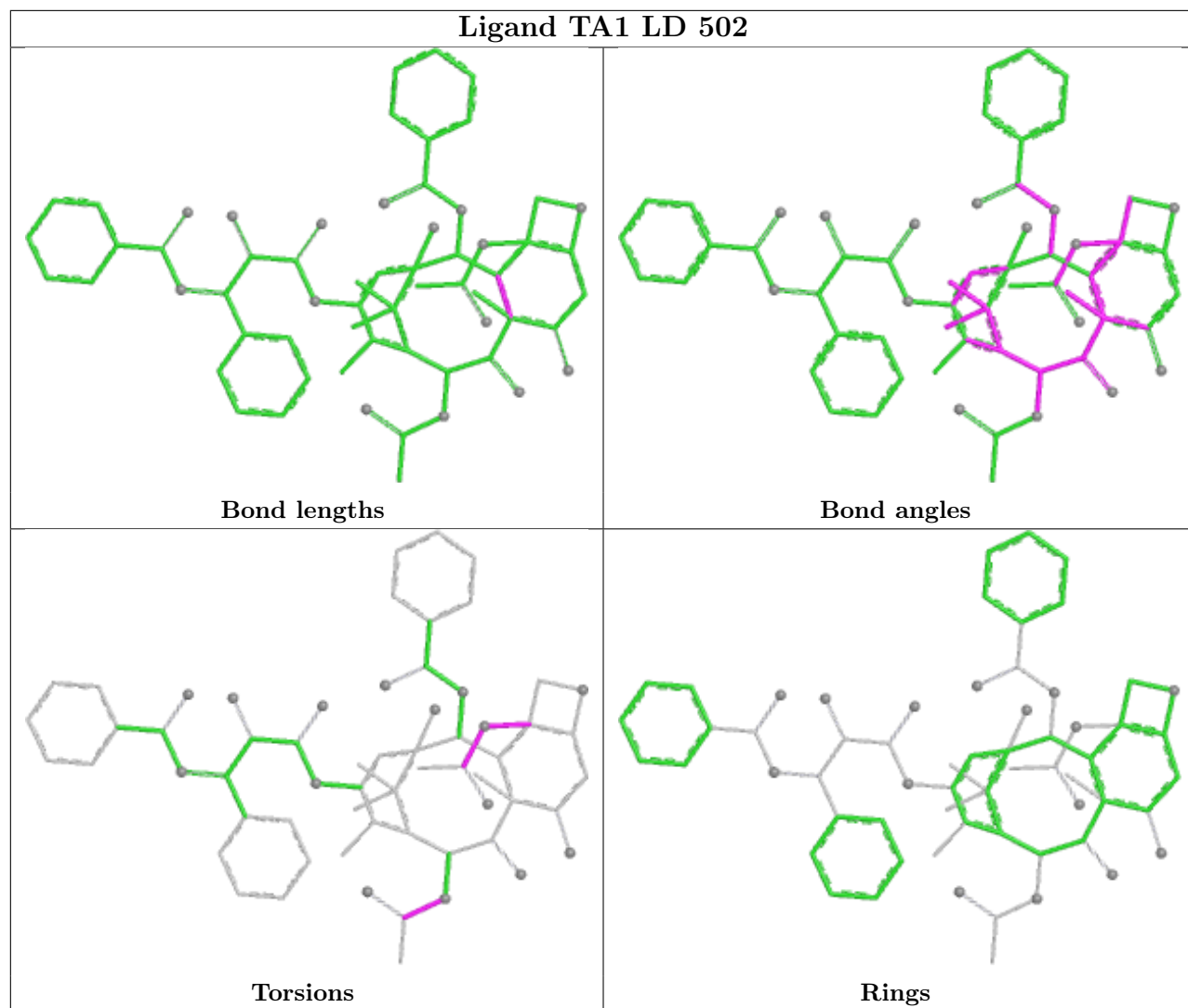


Torsions

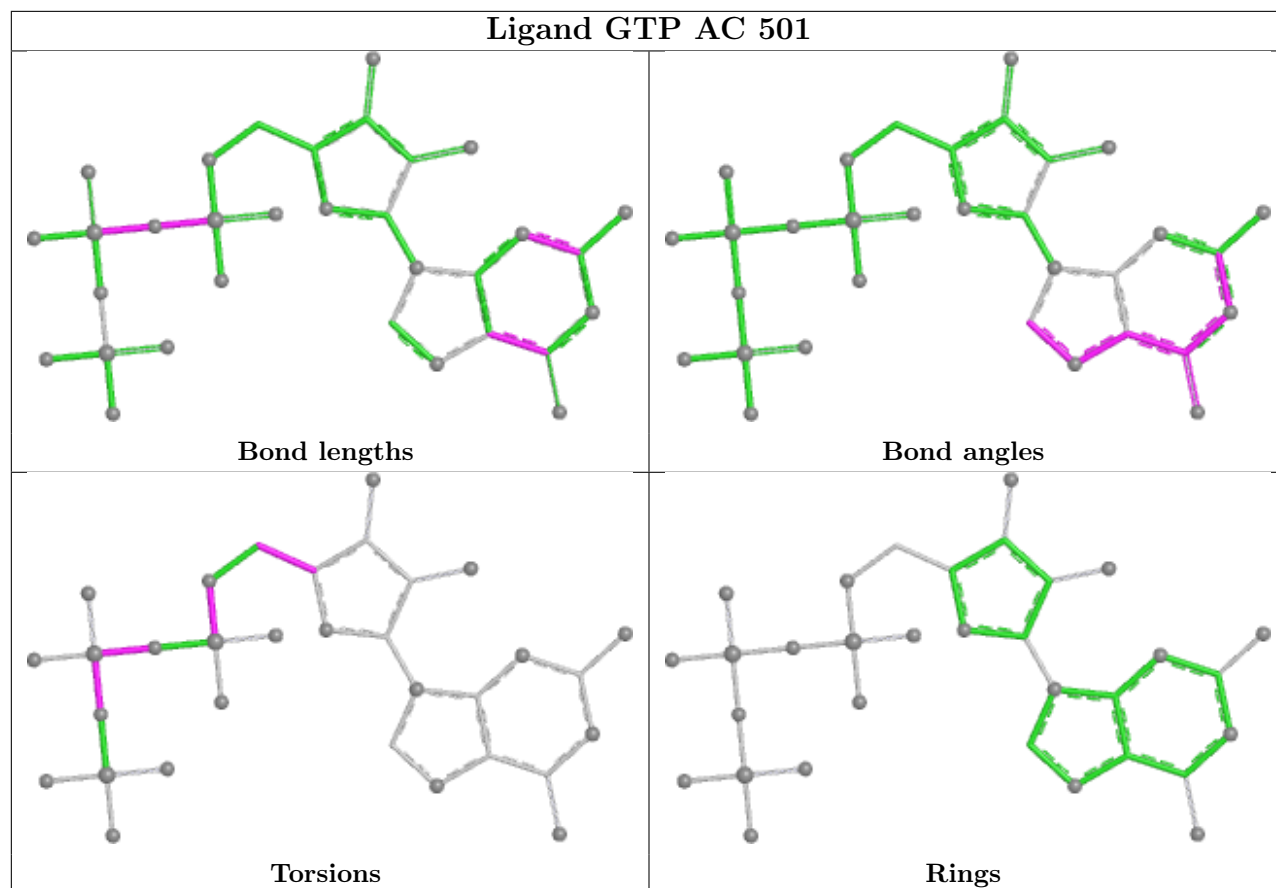


Rings

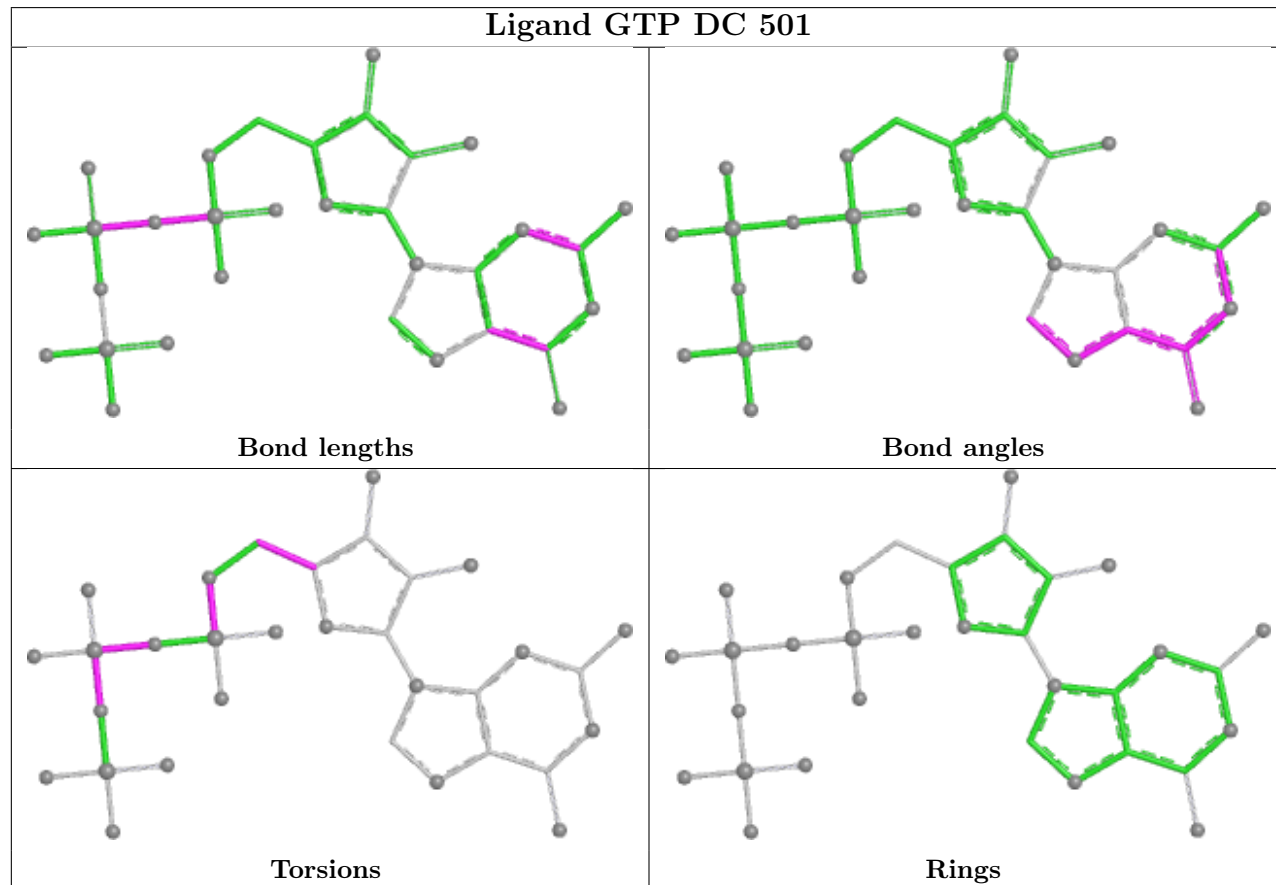


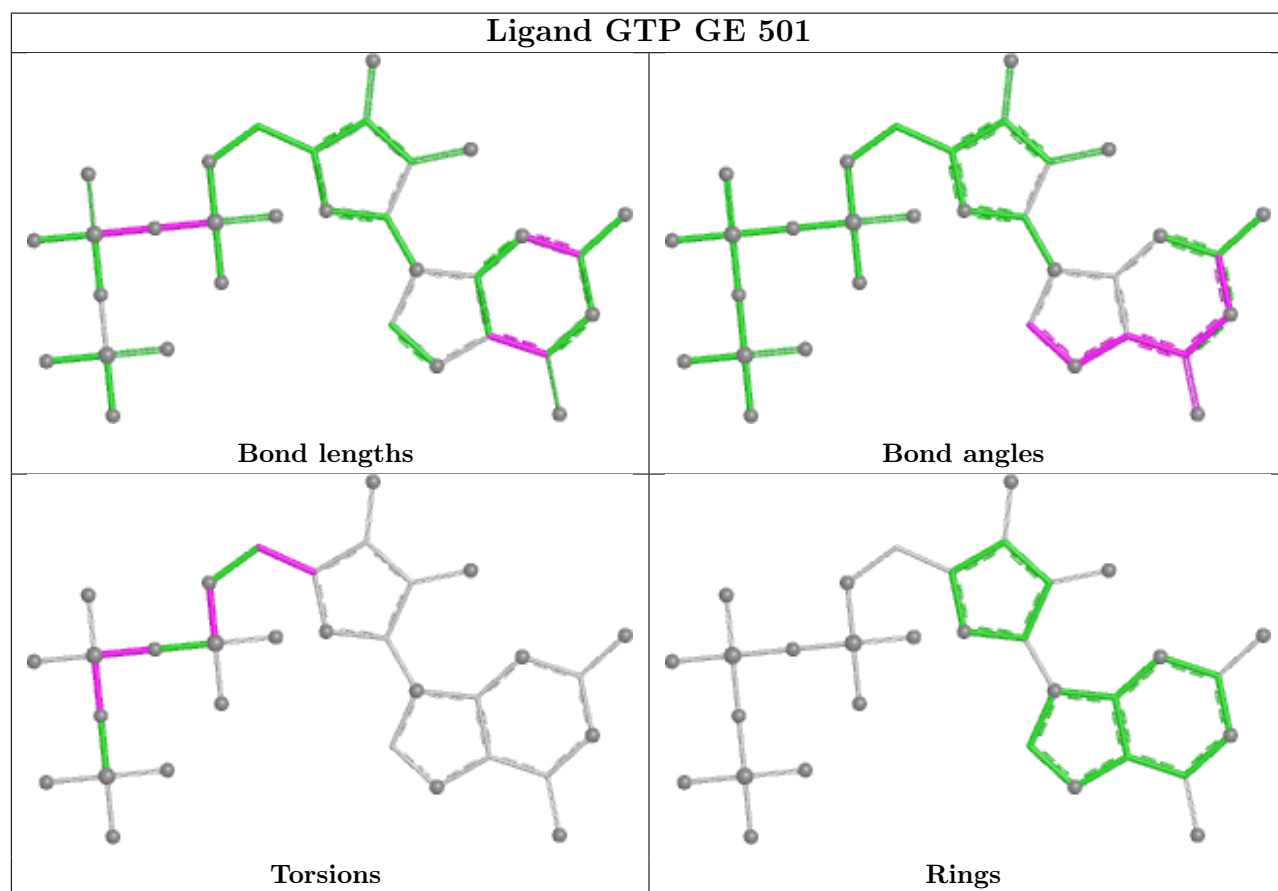
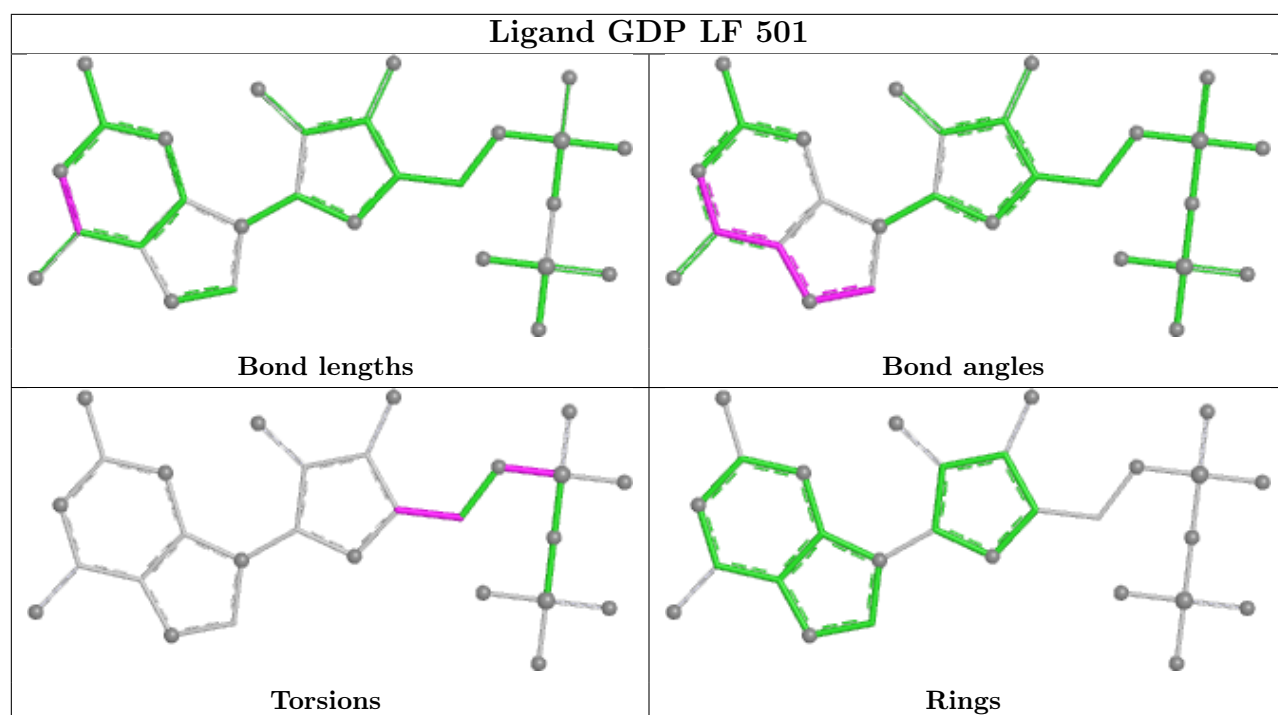


## Ligand GTP AC 501

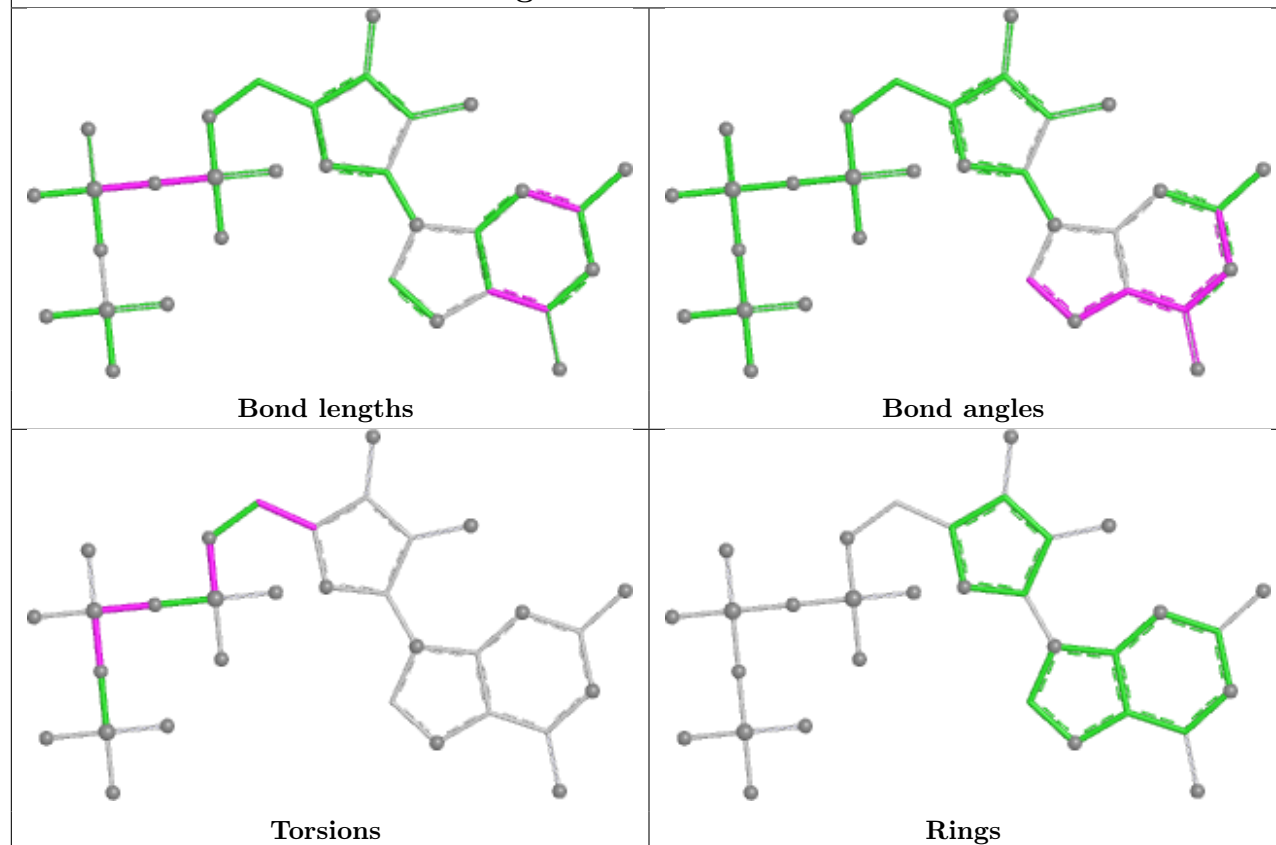


## Ligand GTP DC 501

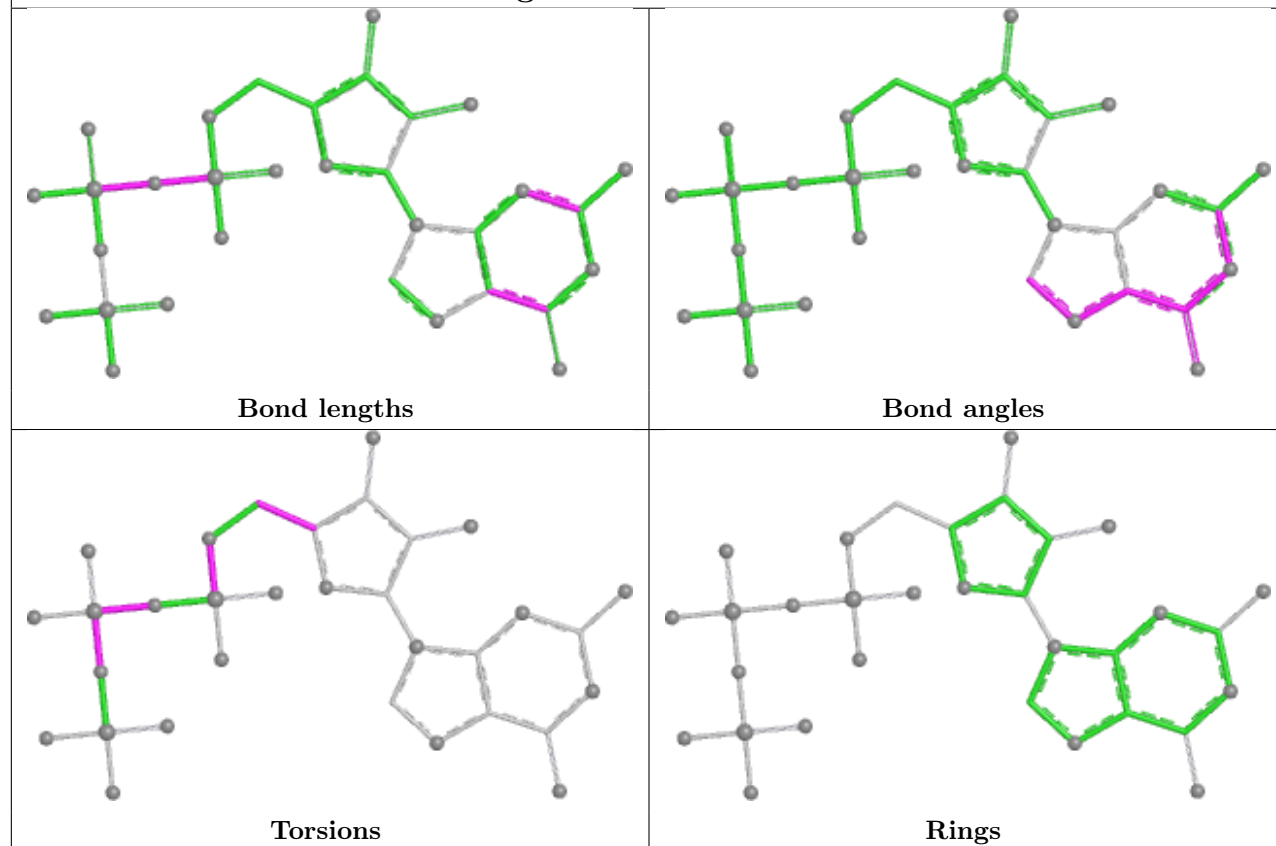




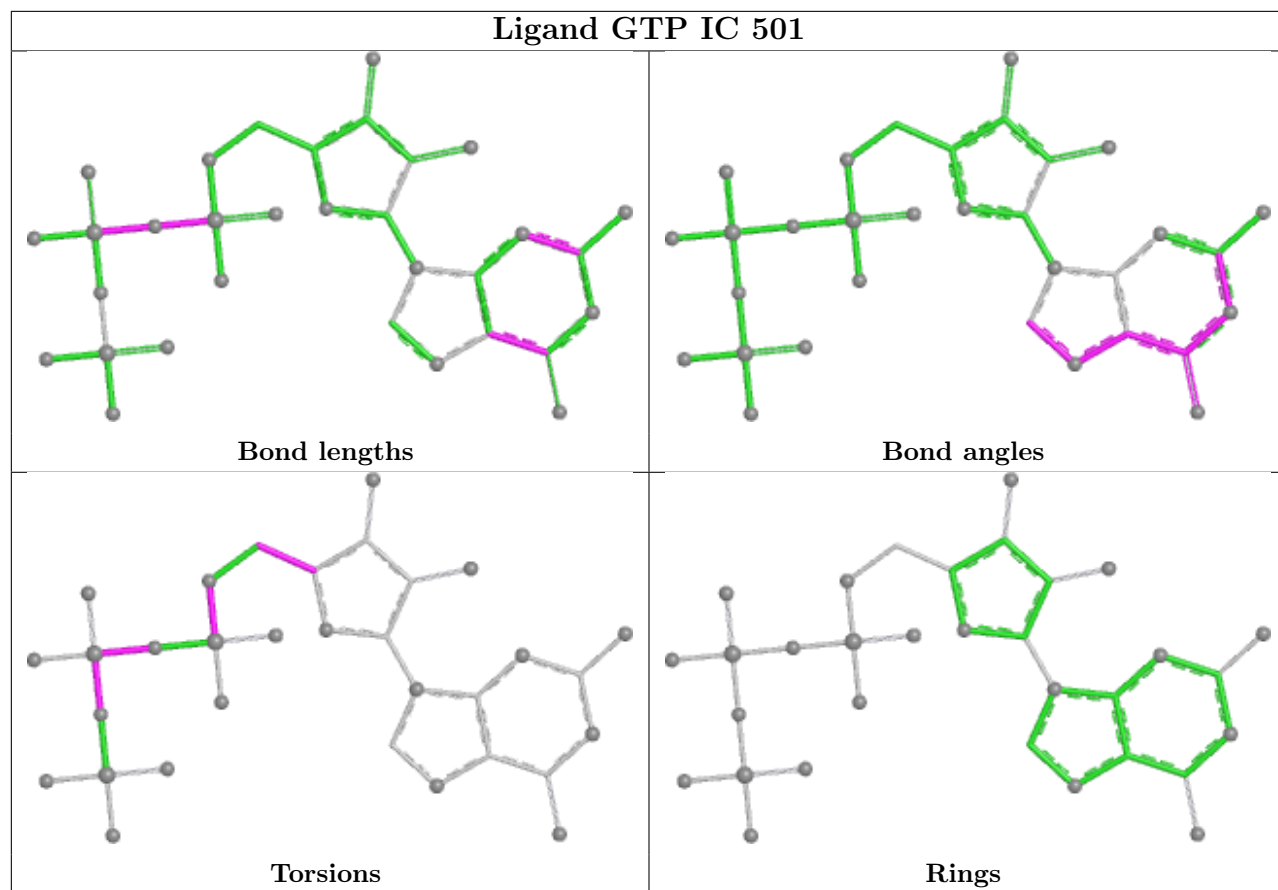
## Ligand GTP NA 501



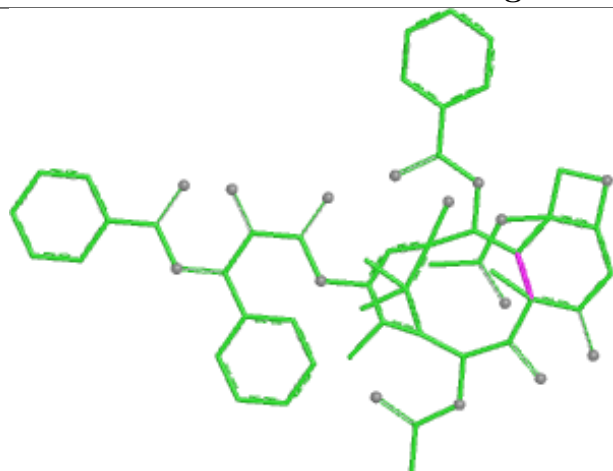
## Ligand GTP AA 501



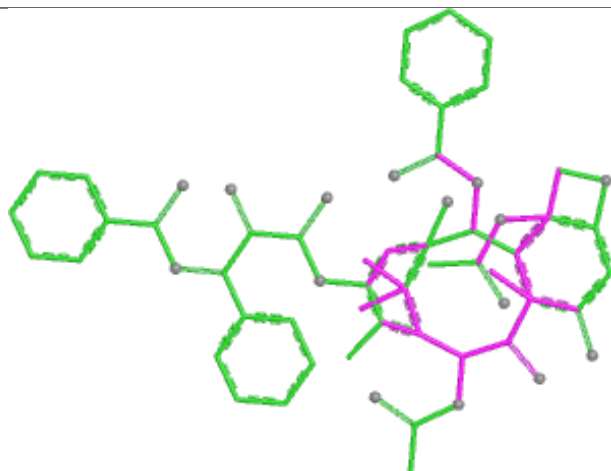




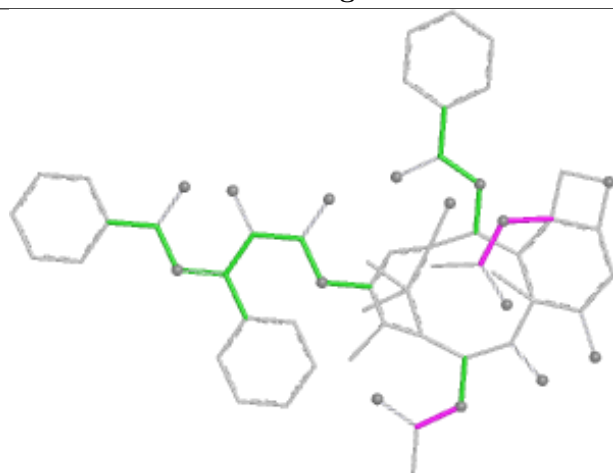
## Ligand TA1 DB 502



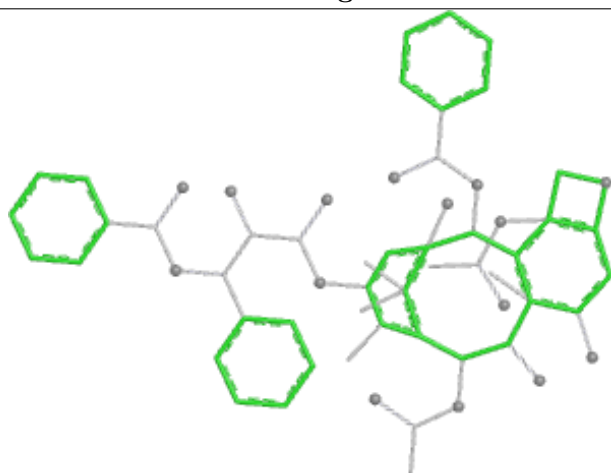
Bond lengths



Bond angles

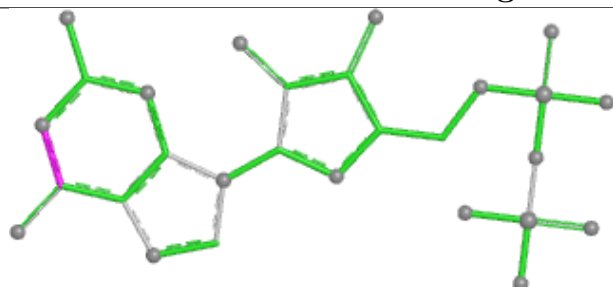


Torsions

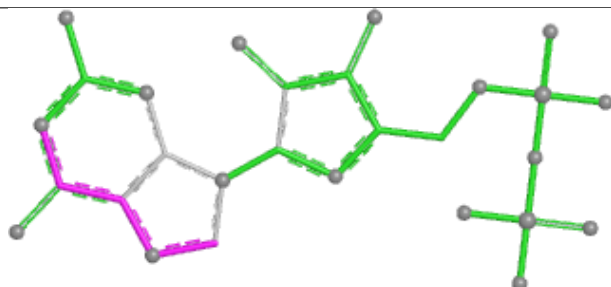


Rings

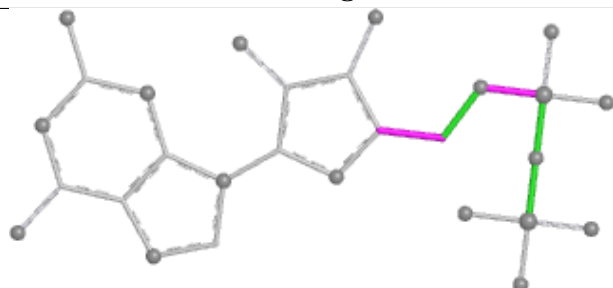
## Ligand GDP DD 501



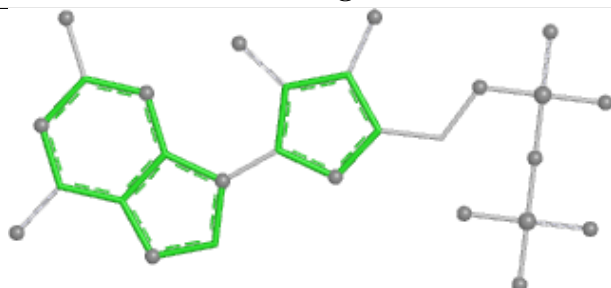
Bond lengths



Bond angles

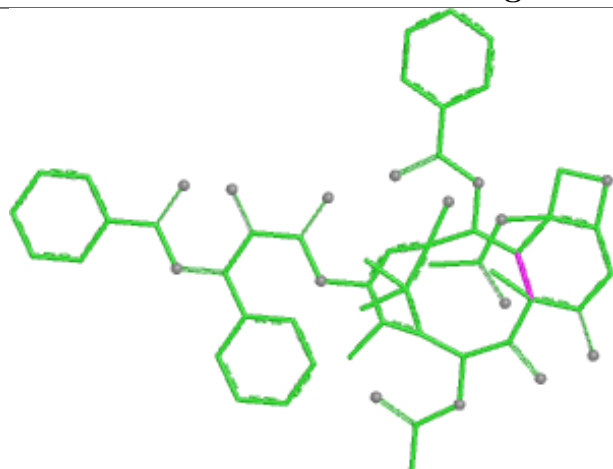


Torsions

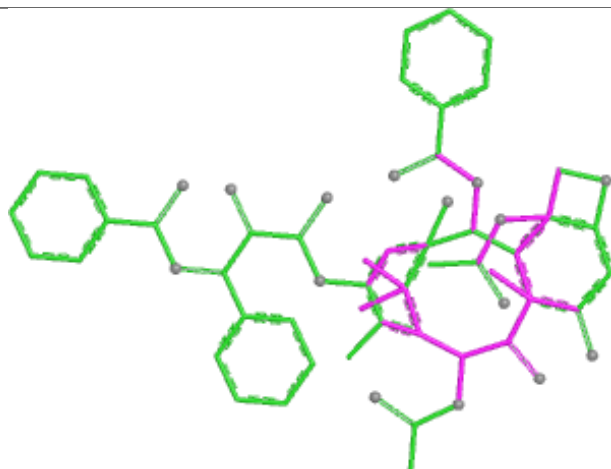


Rings

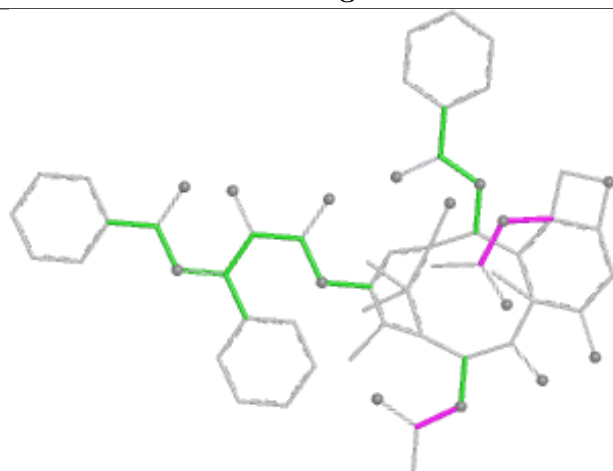
## Ligand TA1 CD 502



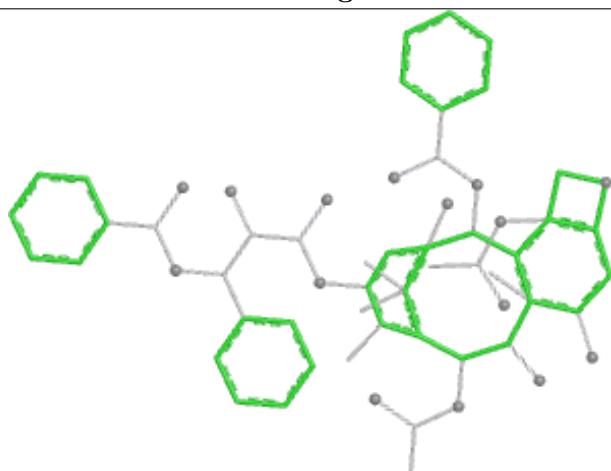
Bond lengths



Bond angles

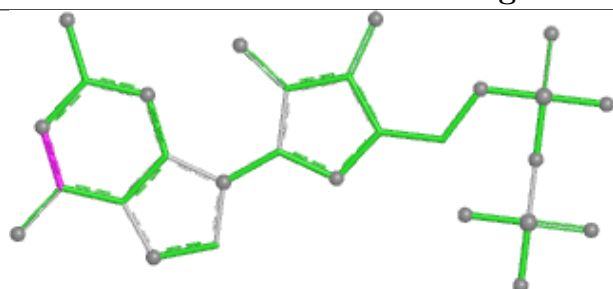


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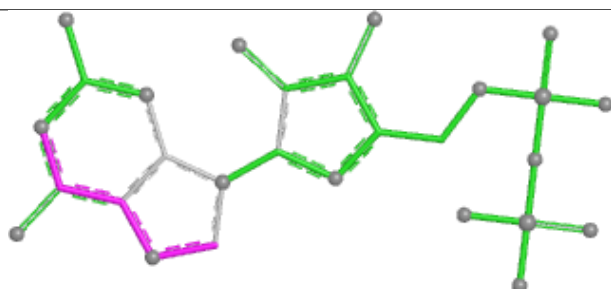


Rings

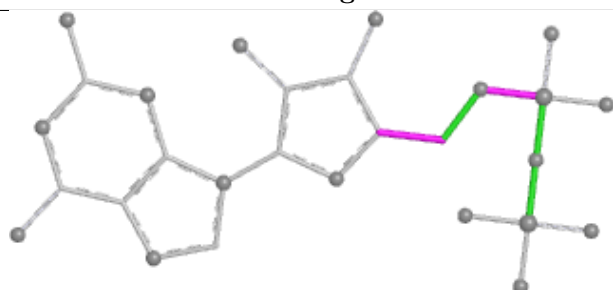
## Ligand GDP CB 501



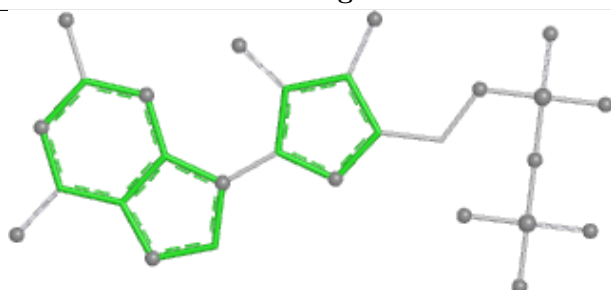
Bond lengths



Bond angles

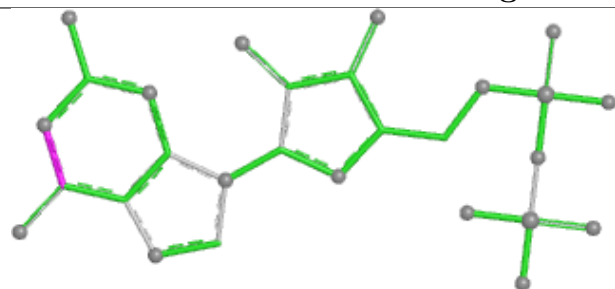


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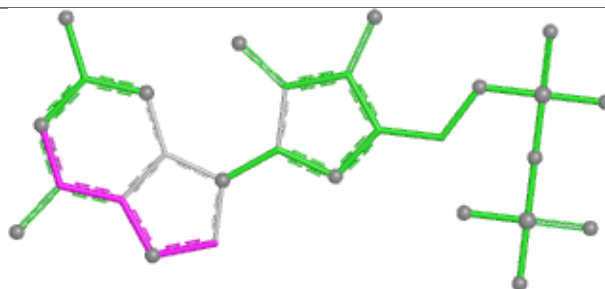


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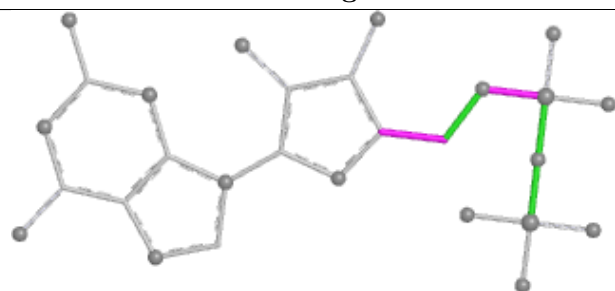
## Ligand GDP KB 501



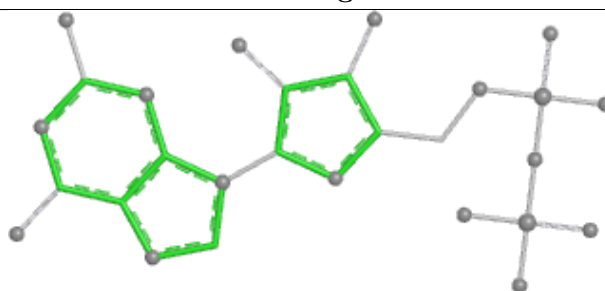
Bond lengths



Bond angles

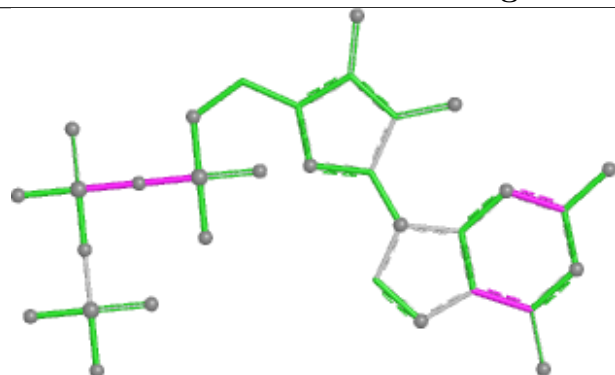


Torsions

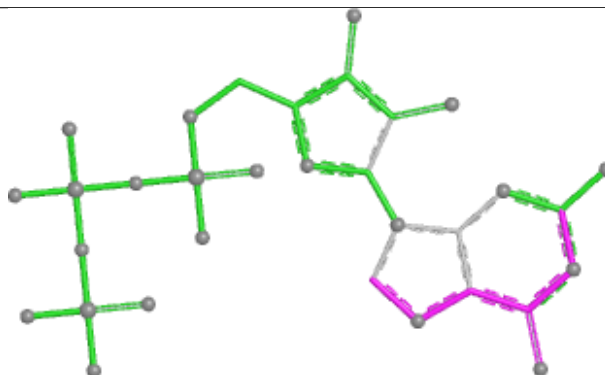


Rings

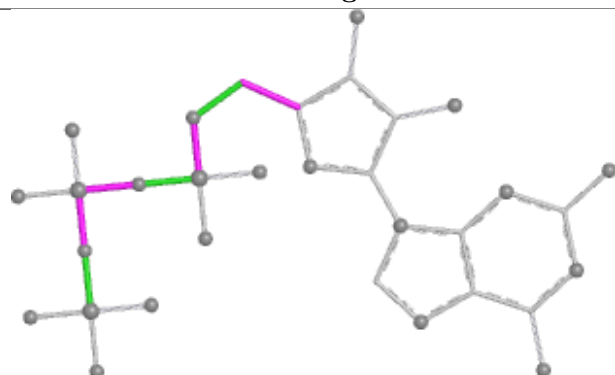
## Ligand GTP HC 501



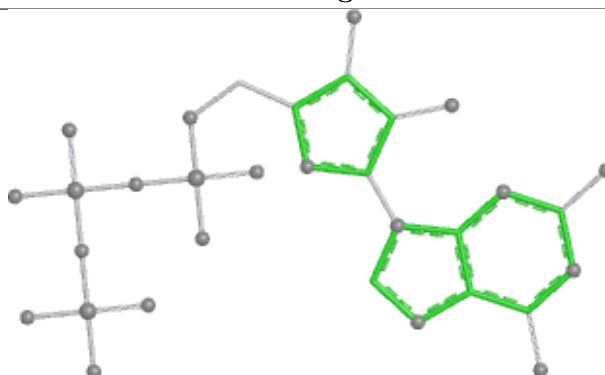
Bond lengths



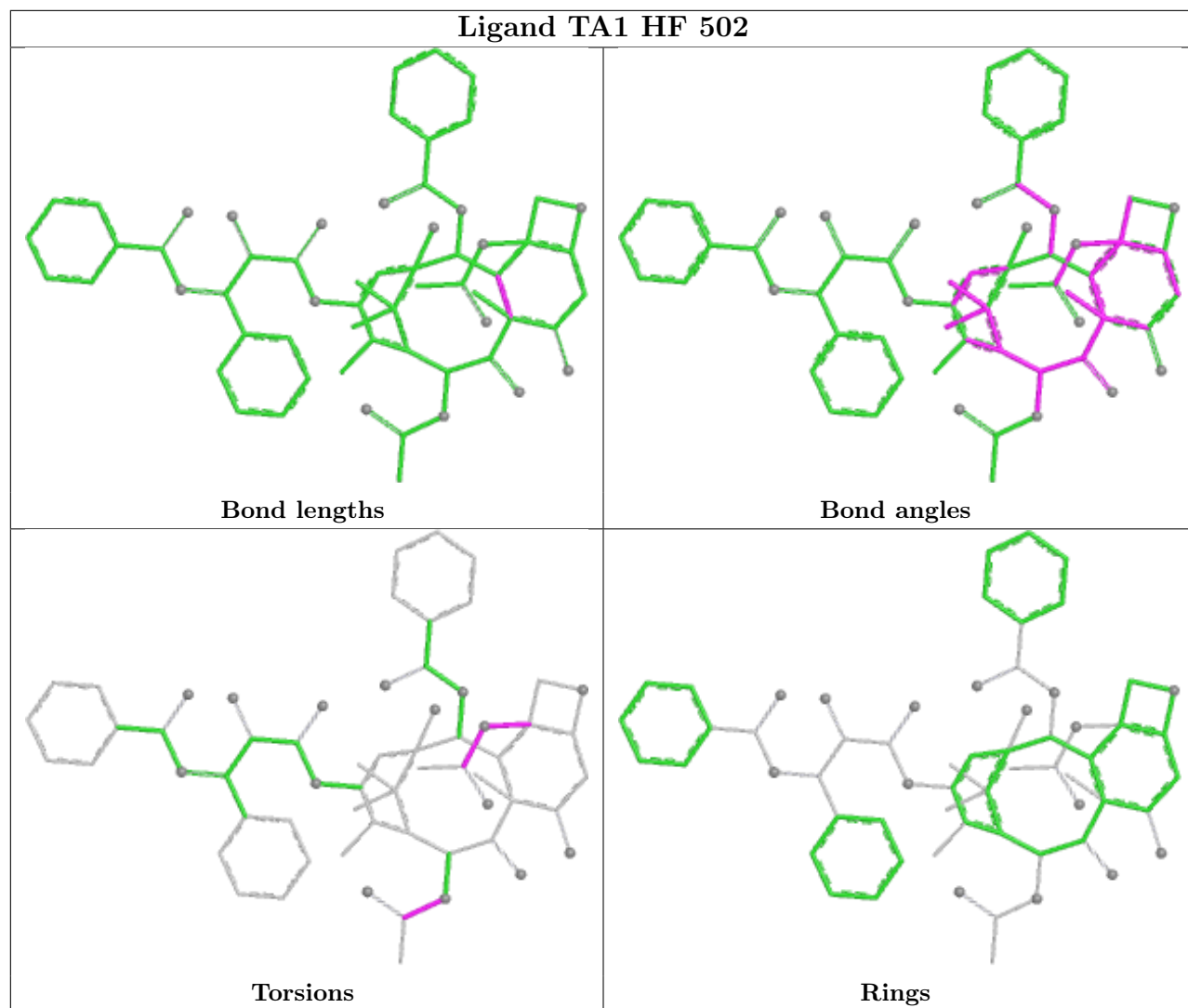
Bond angles

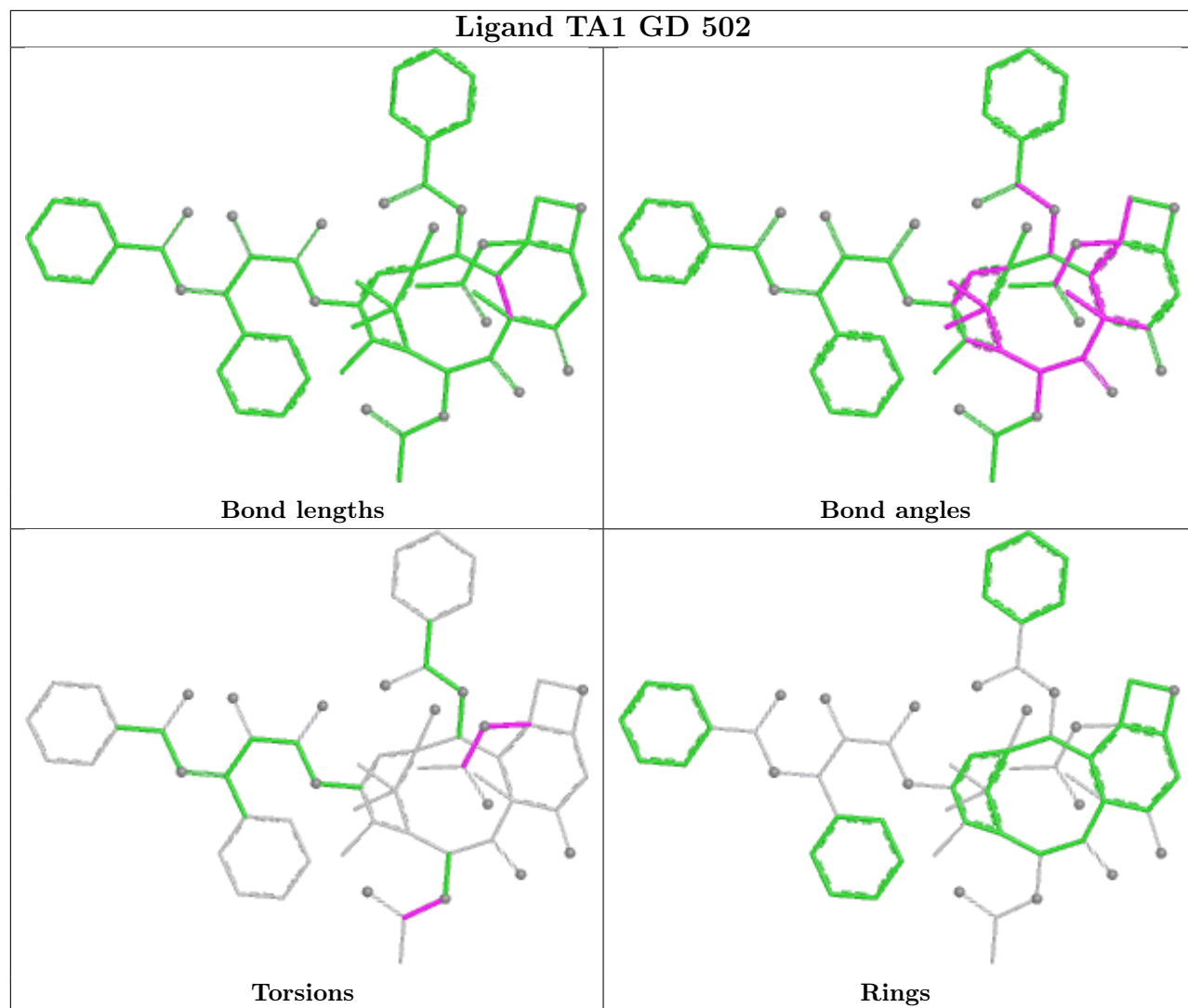


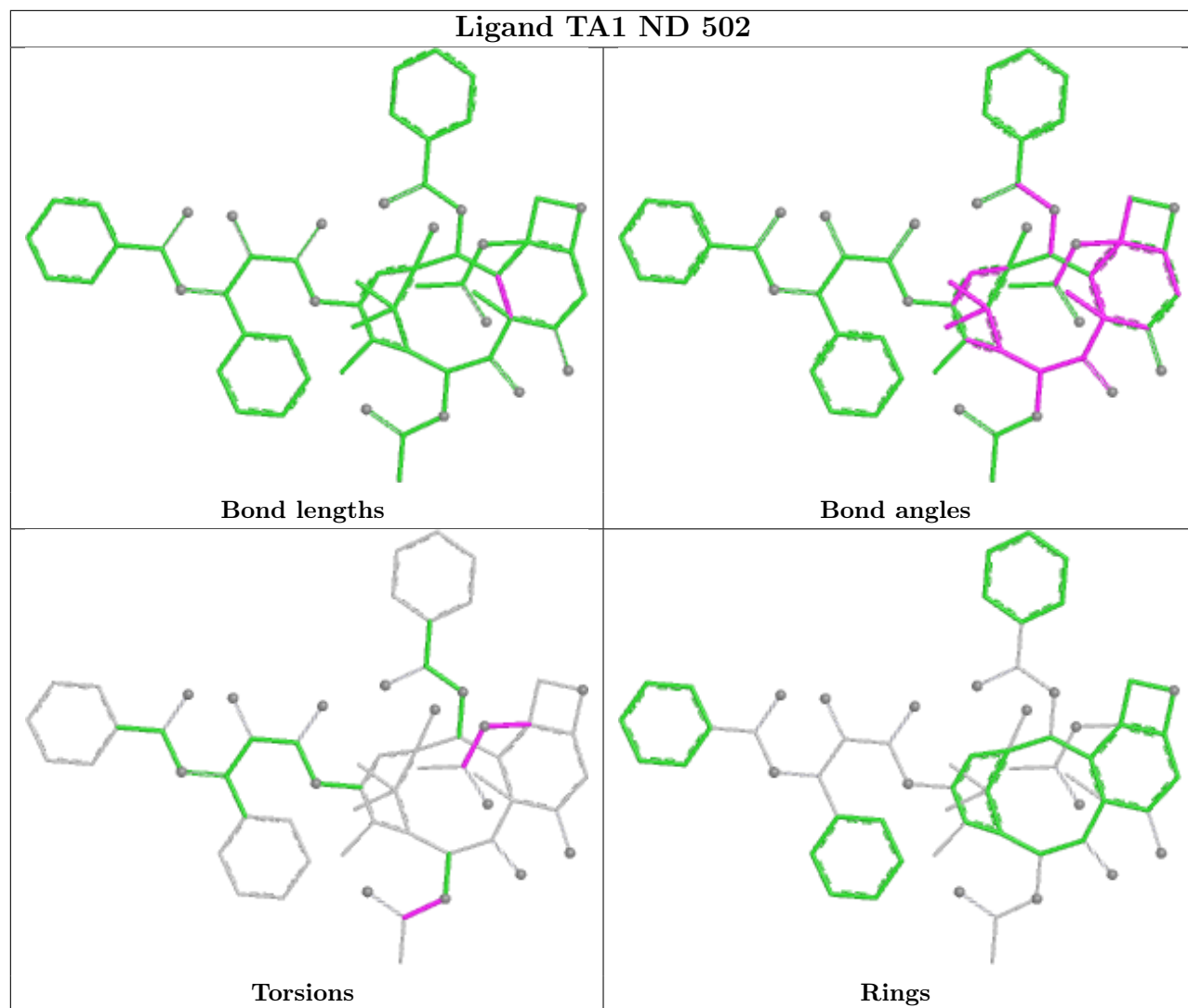
Torsions



Rings

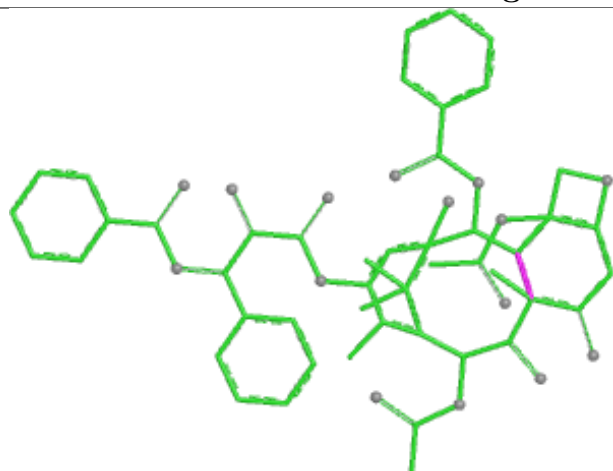




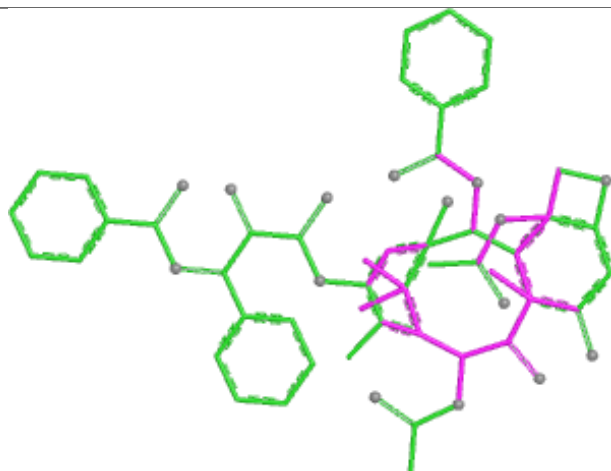




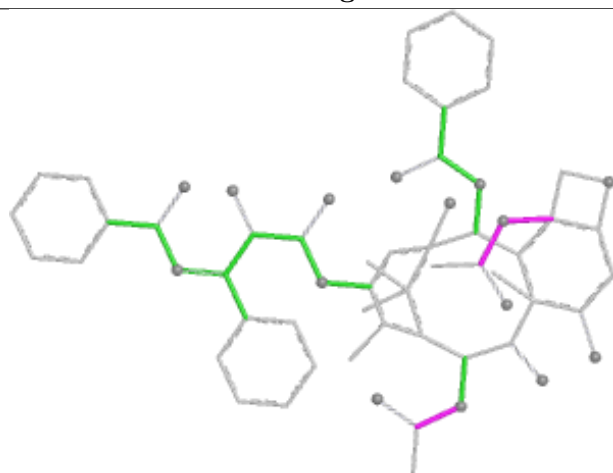
## Ligand TA1 MF 502



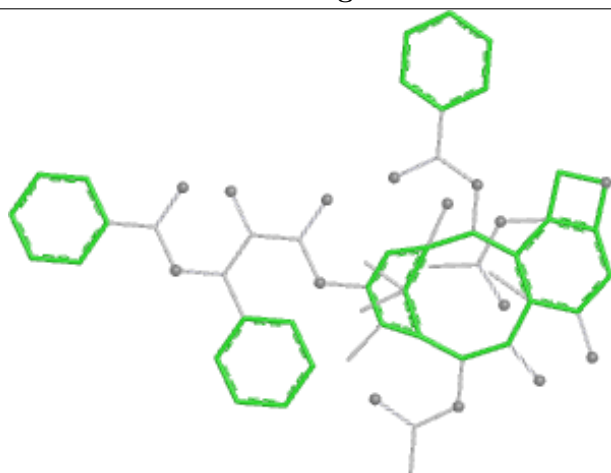
Bond lengths



Bond angles

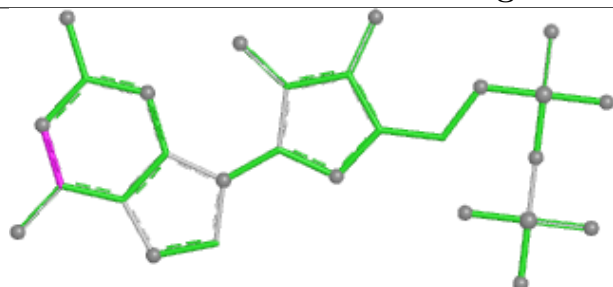


Torsions

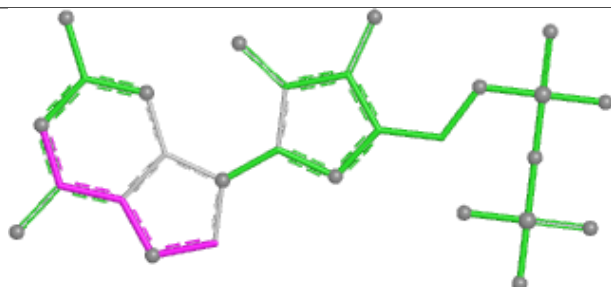


Rings

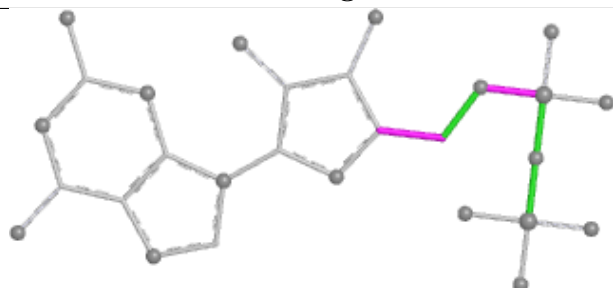
## Ligand GDP AD 501



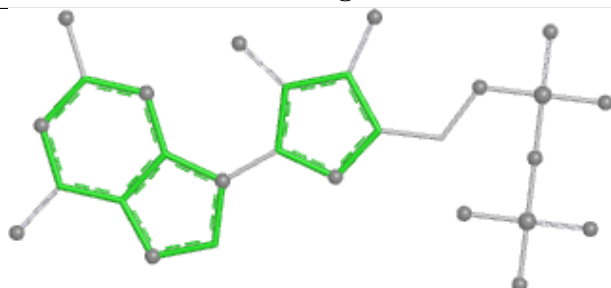
Bond lengths



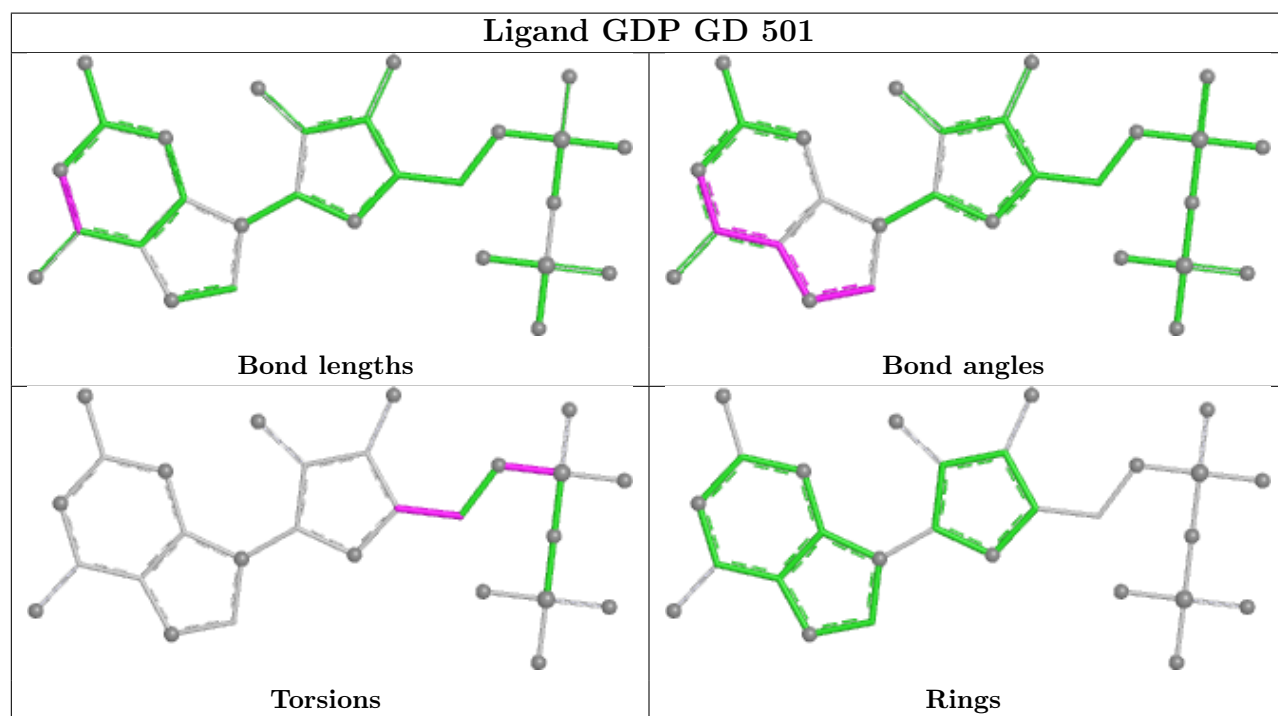
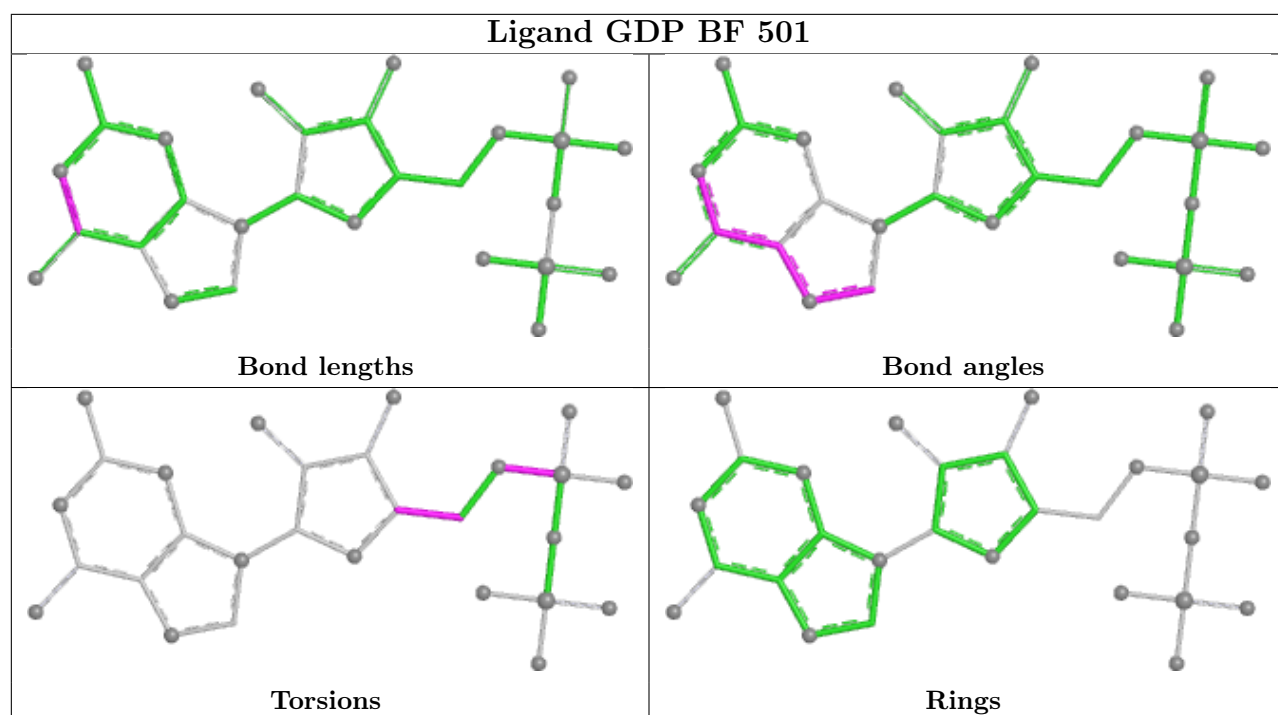
Bond angles

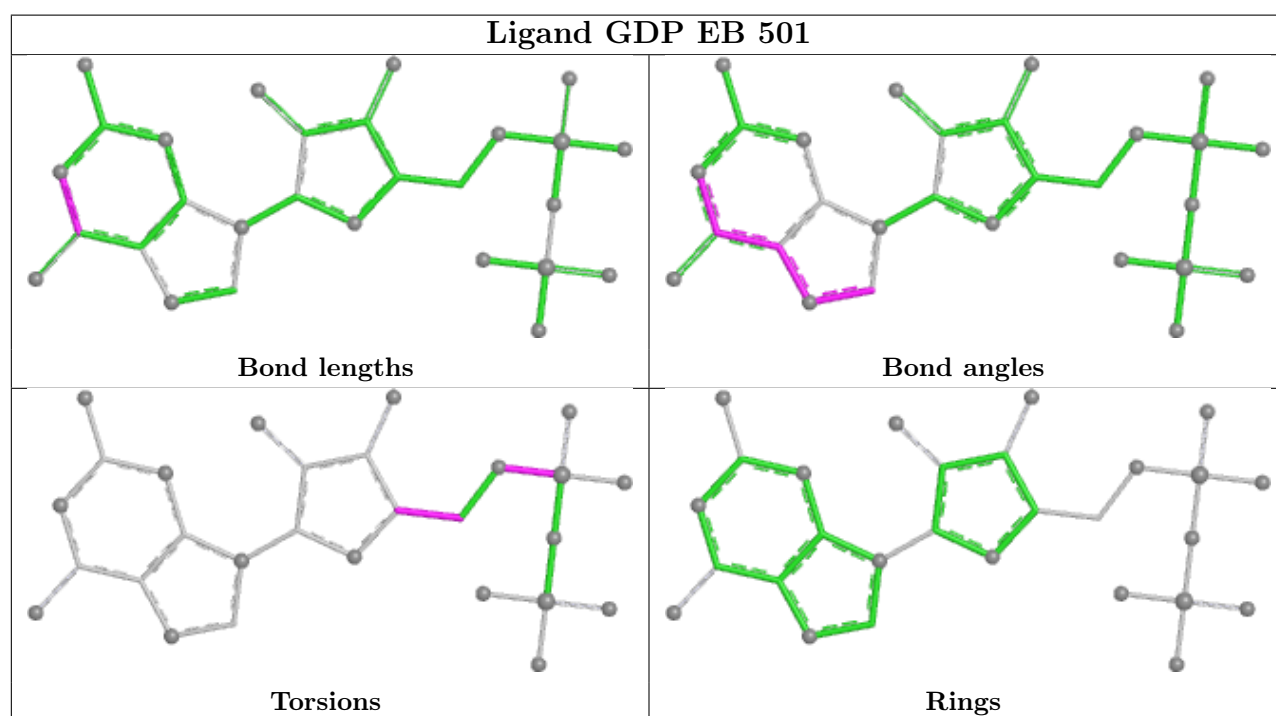
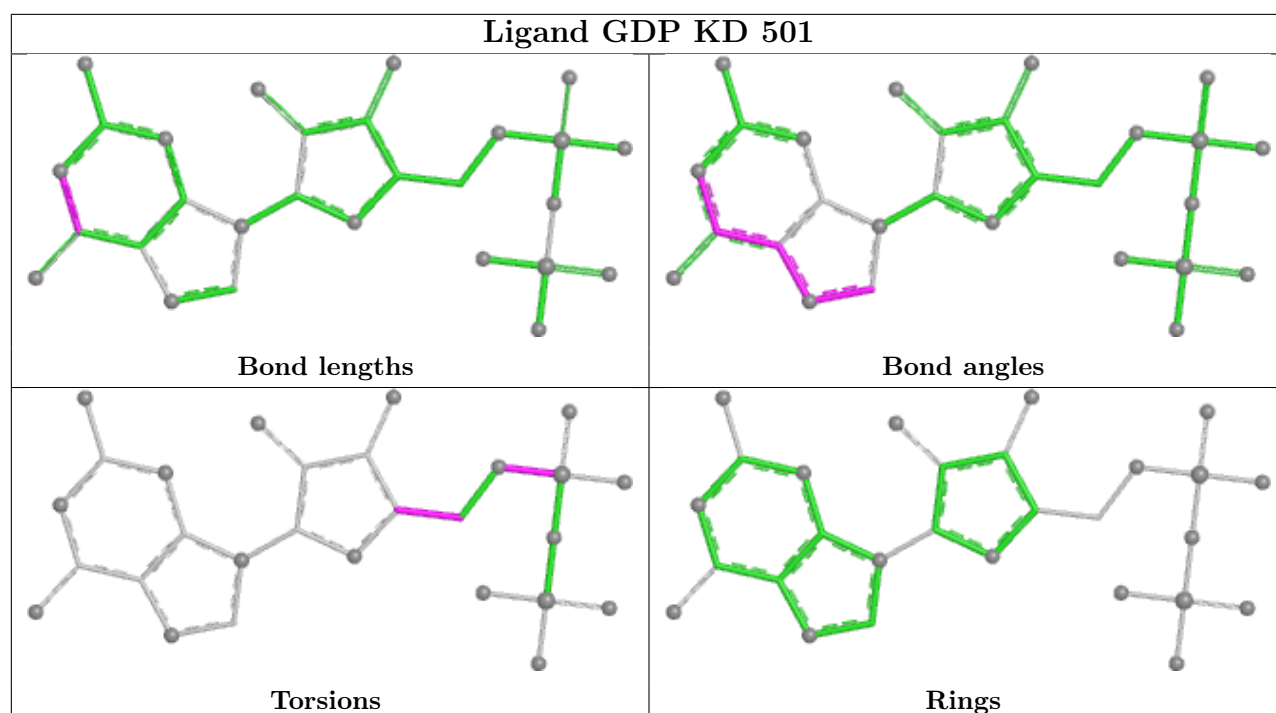


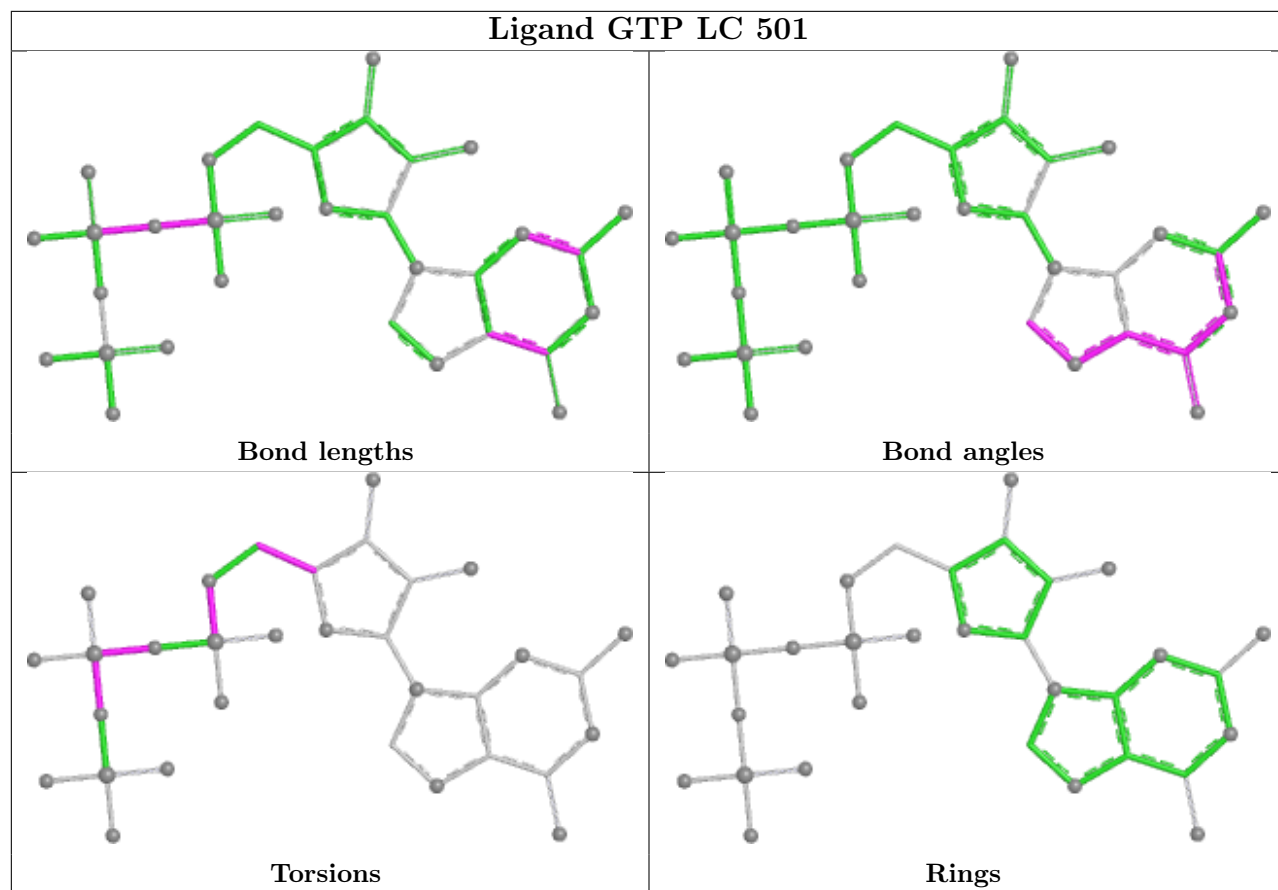
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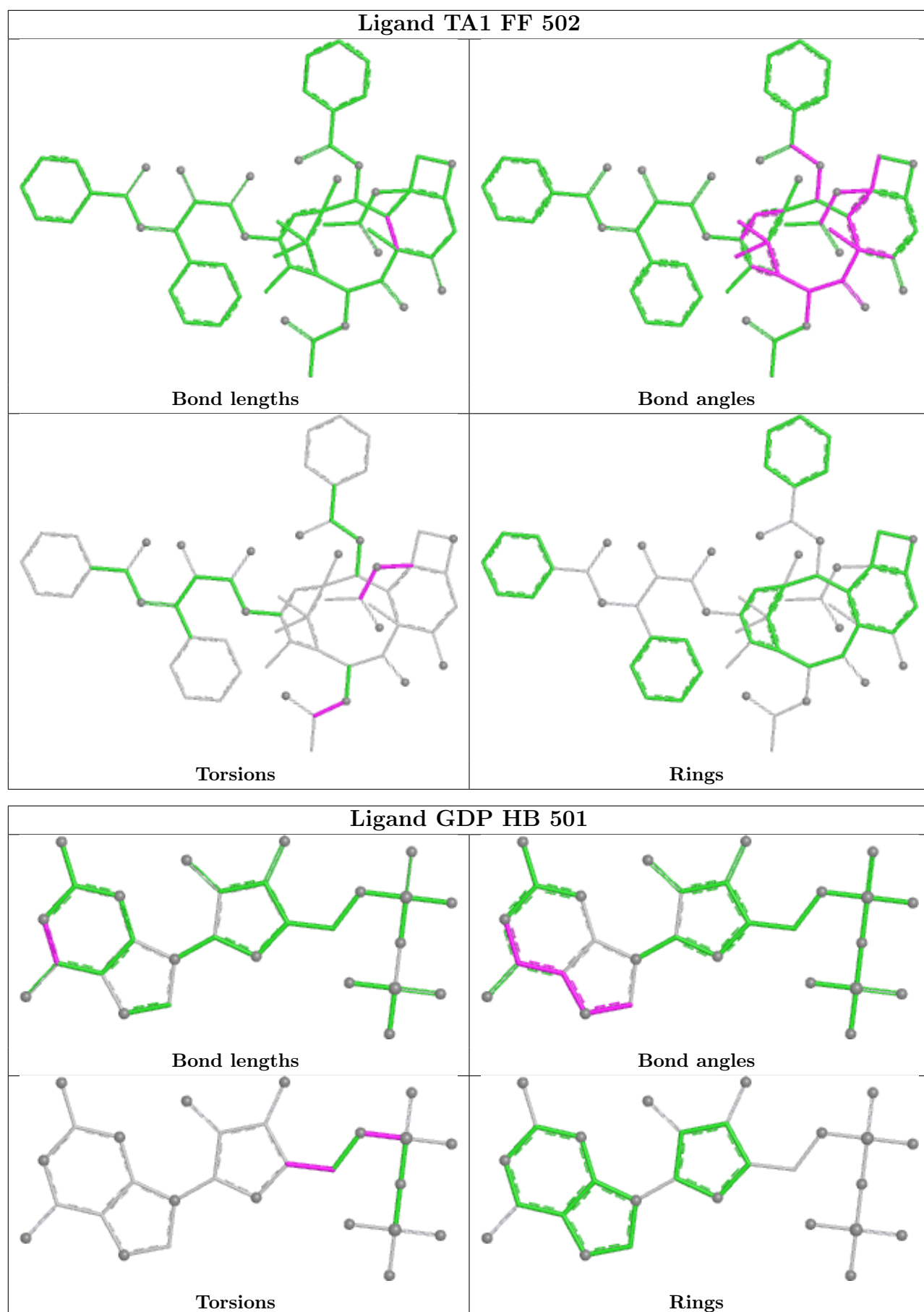


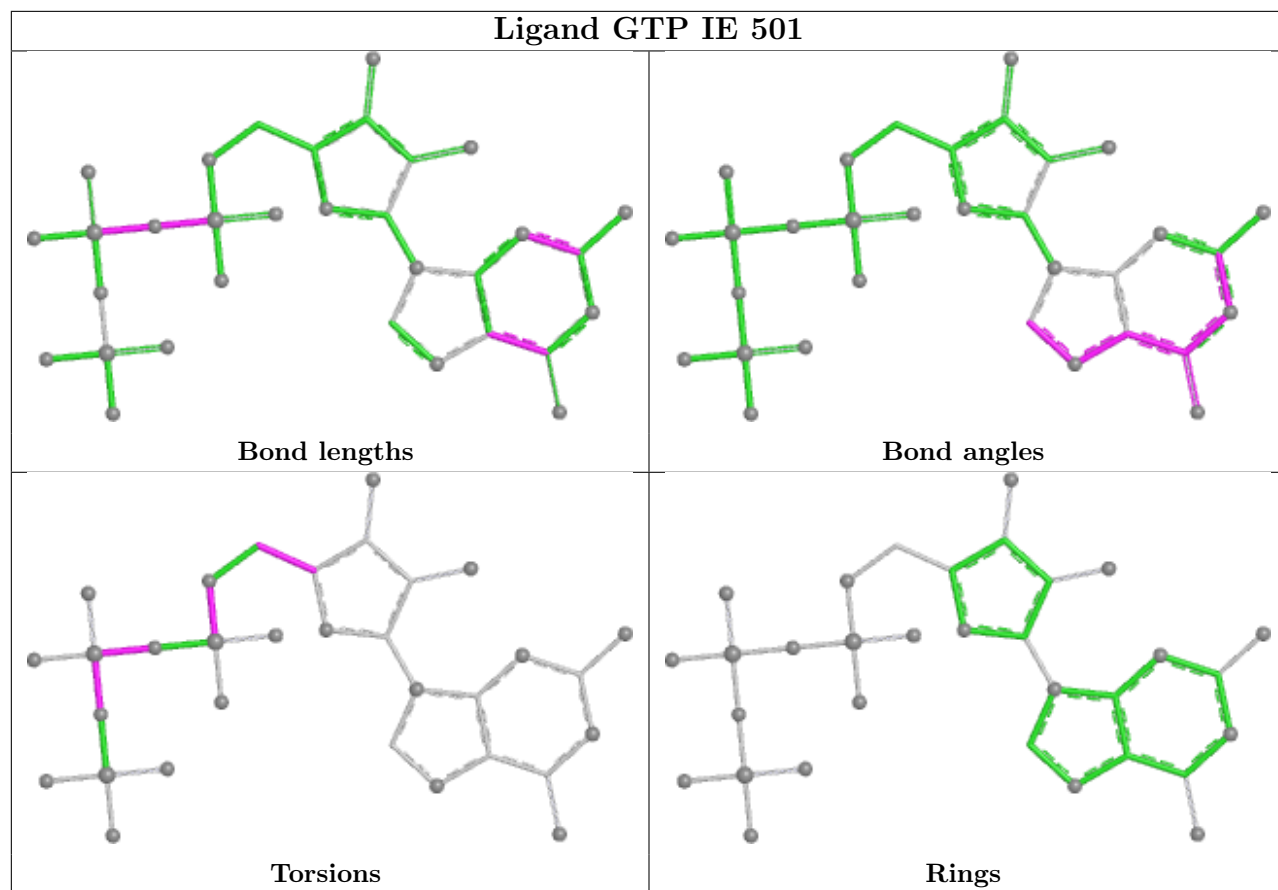
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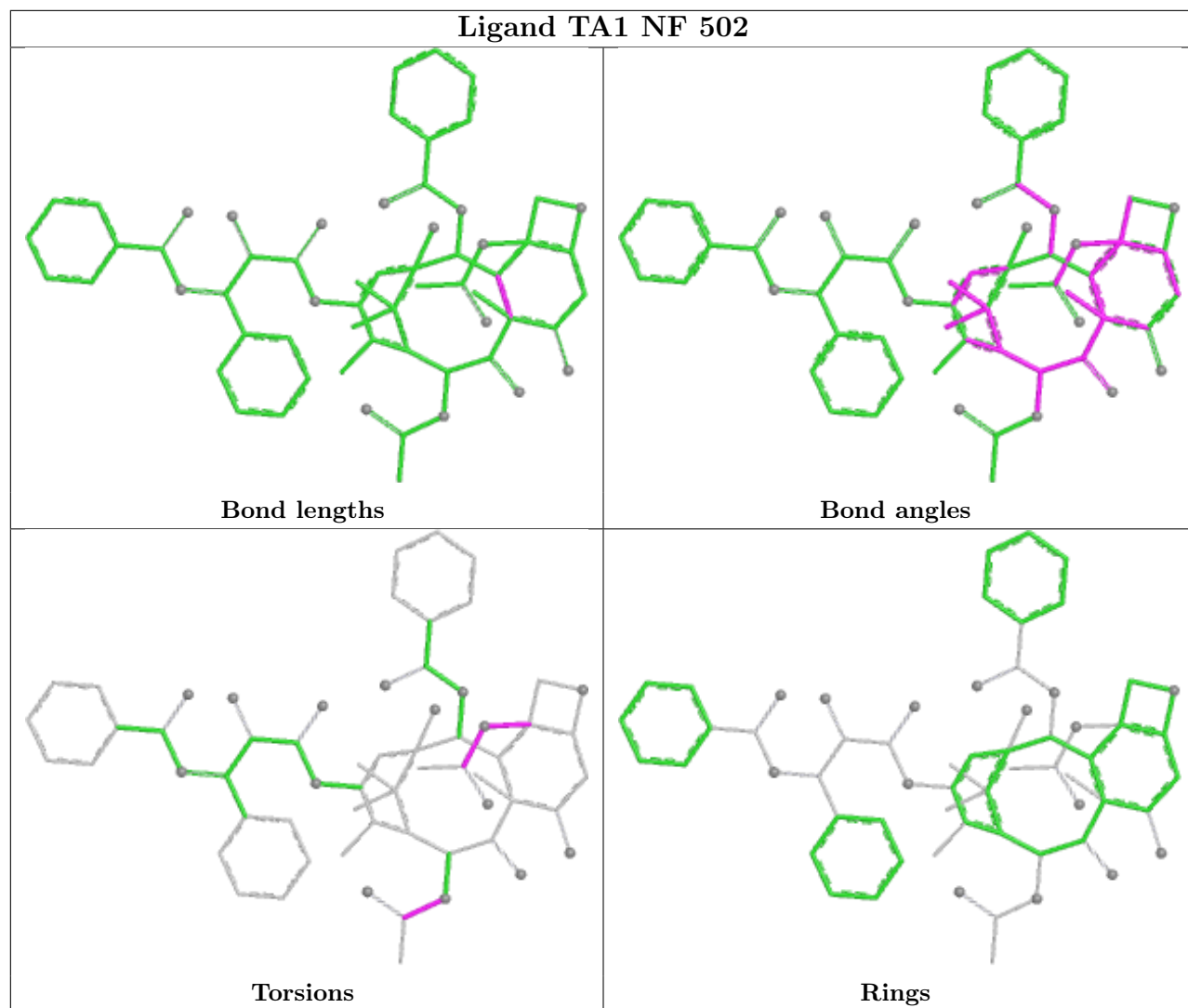




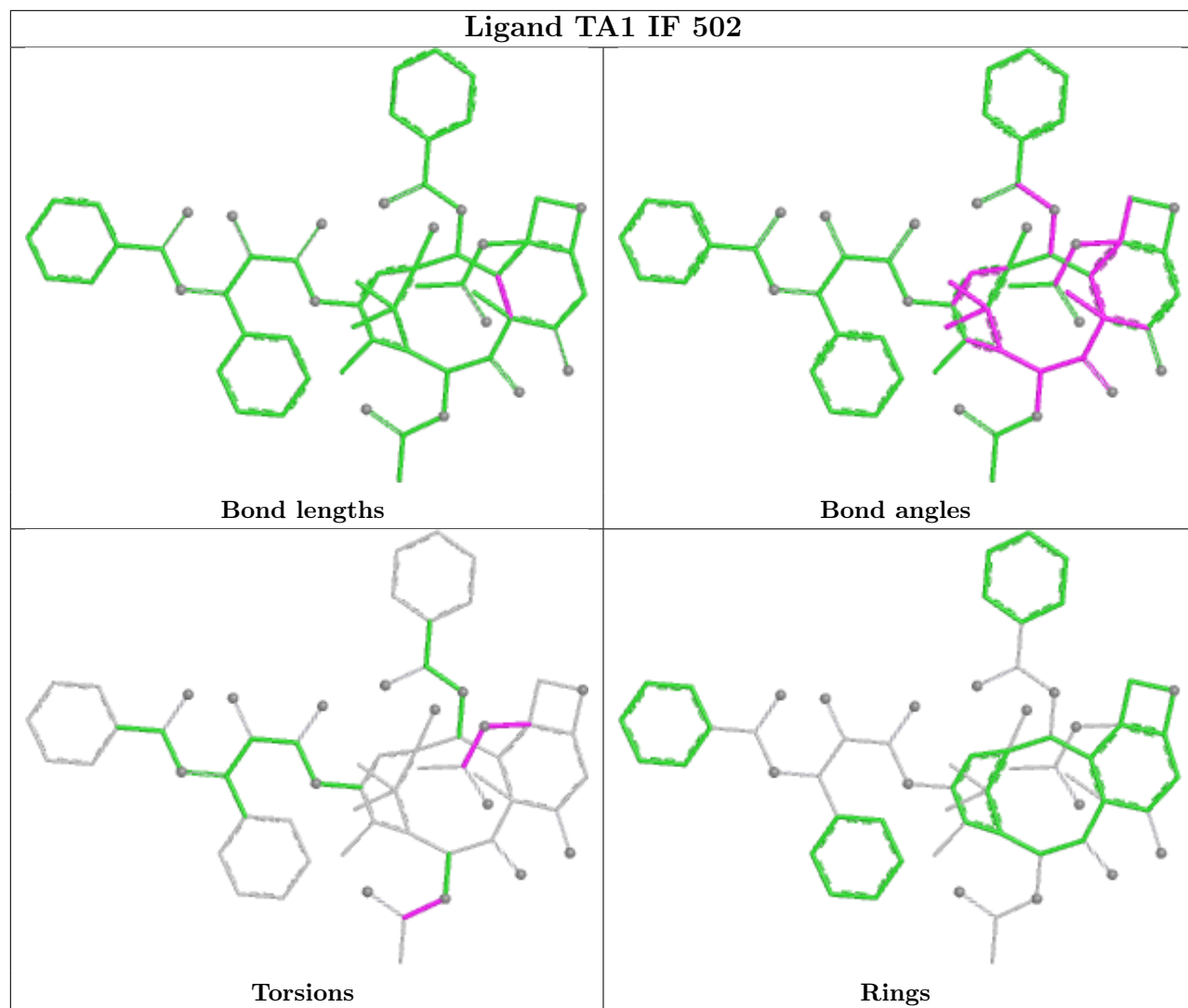


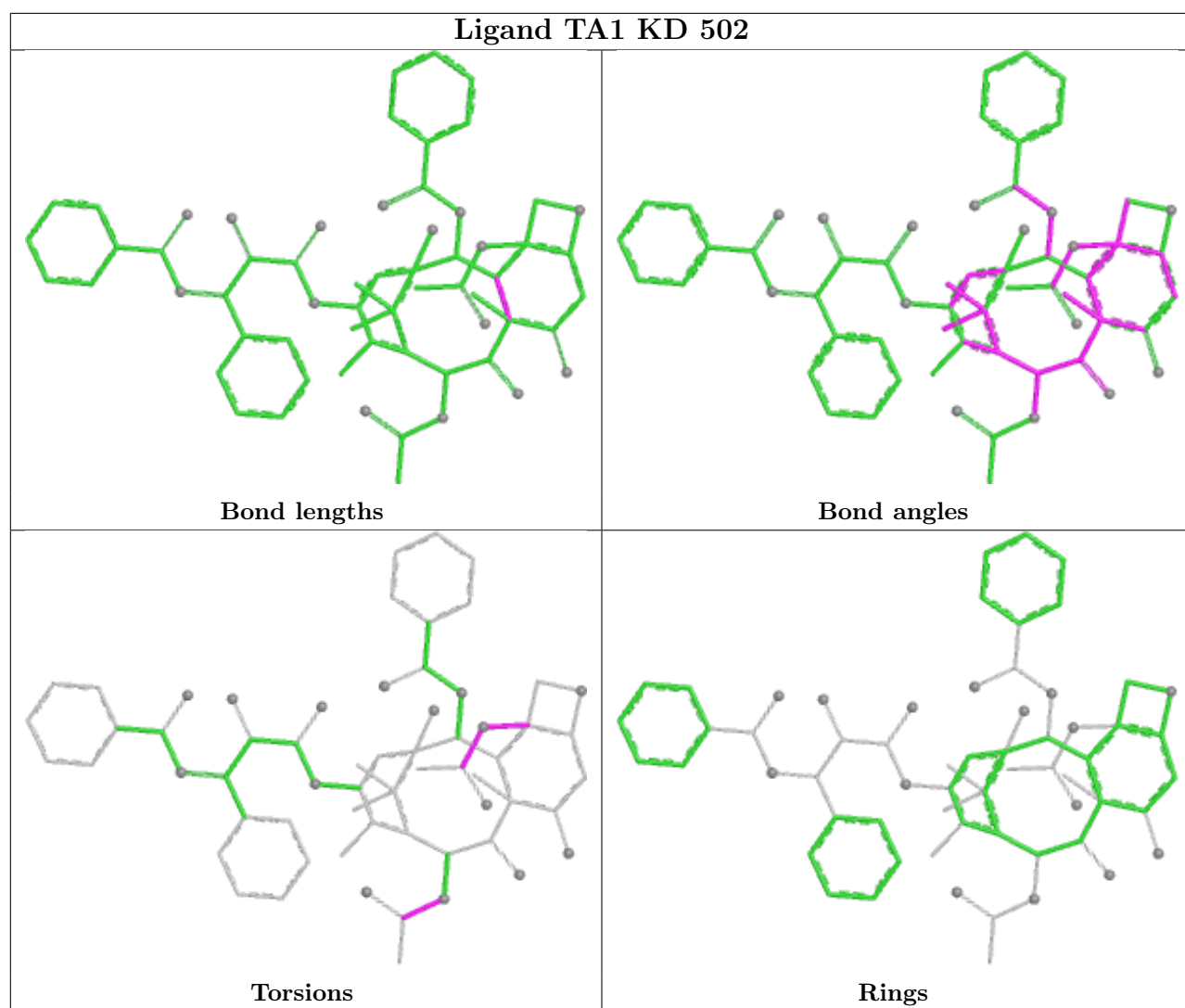




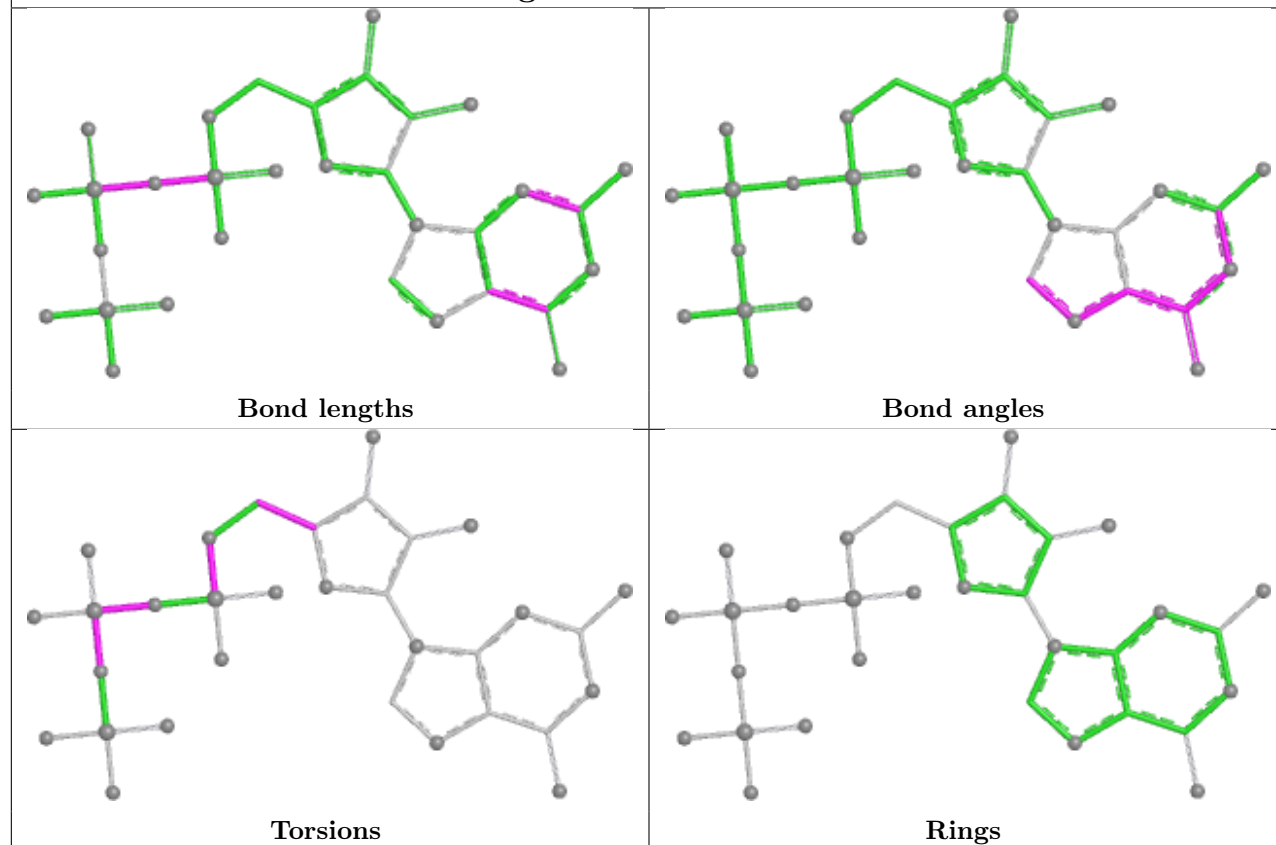




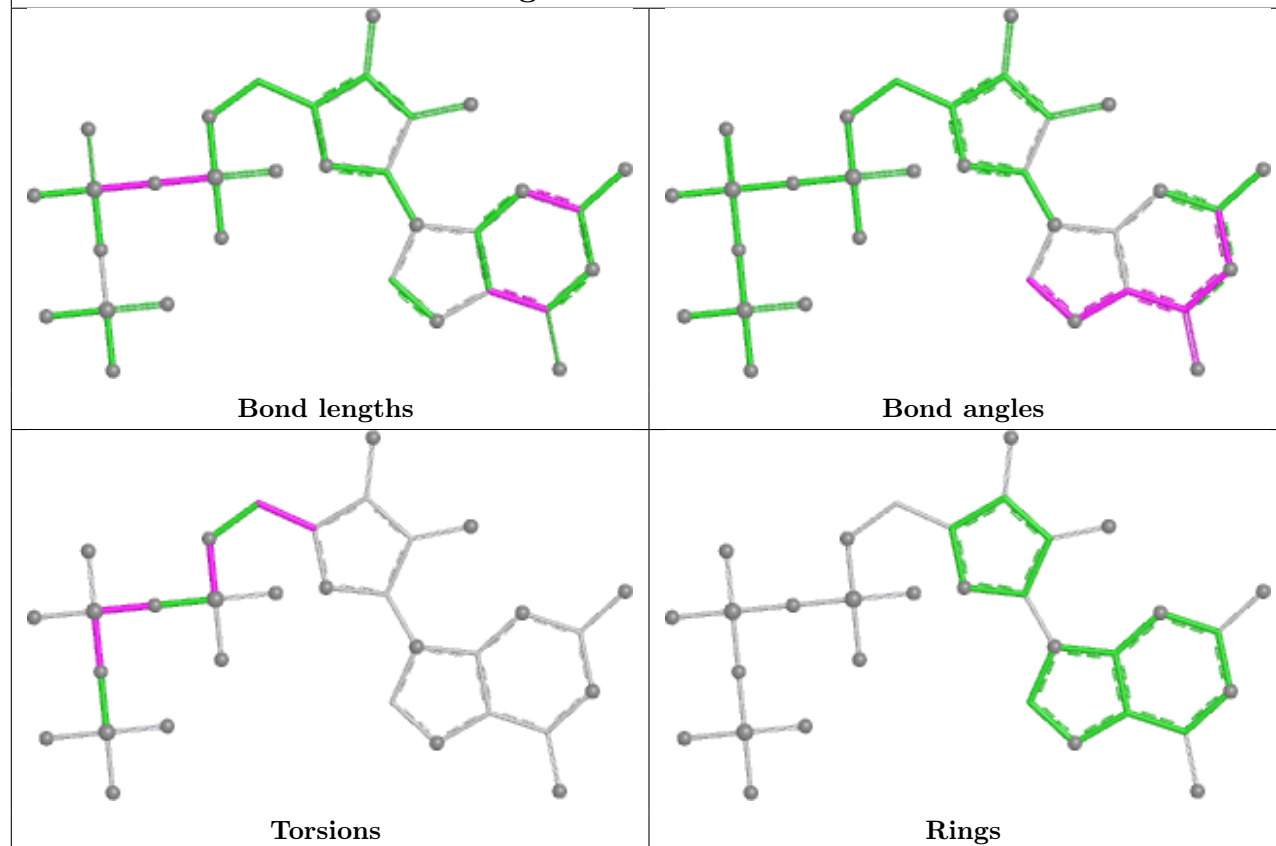




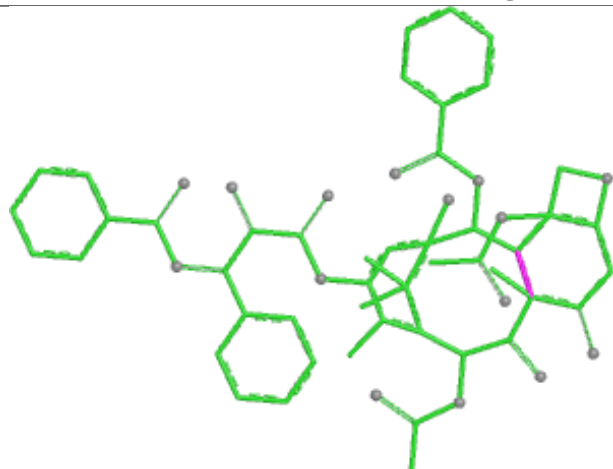
## Ligand GTP EA 501



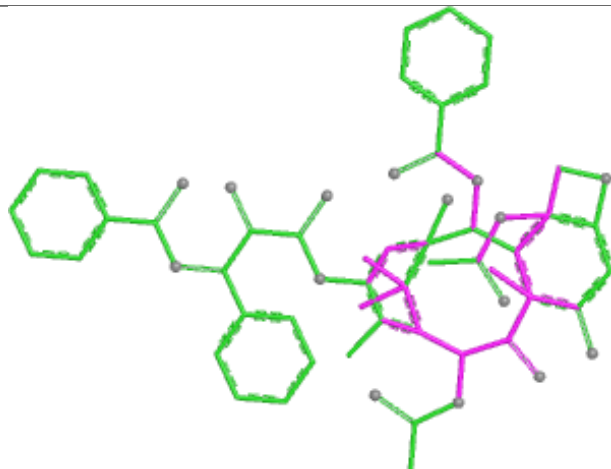
## Ligand GTP CE 501



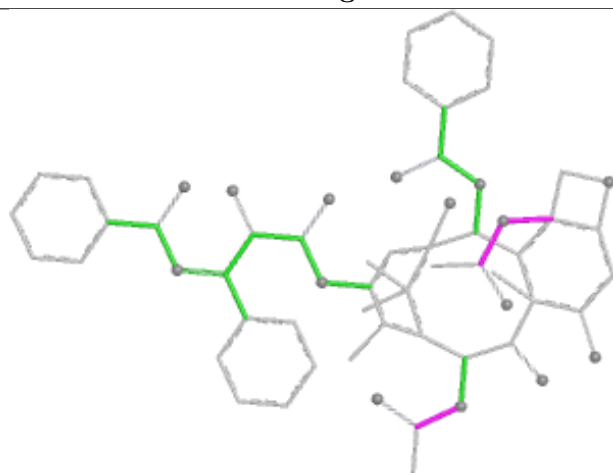
## Ligand TA1 MB 502



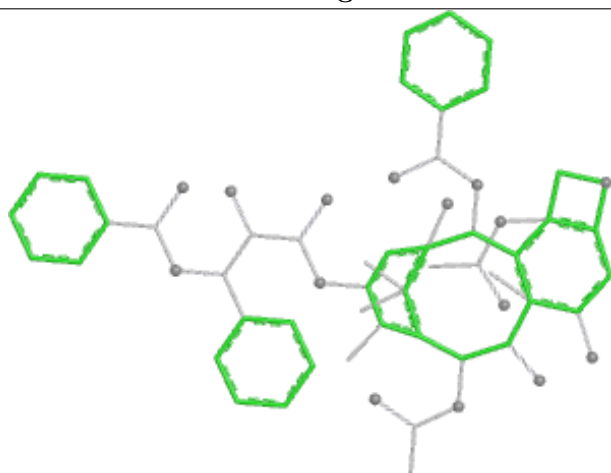
Bond lengths



Bond angles

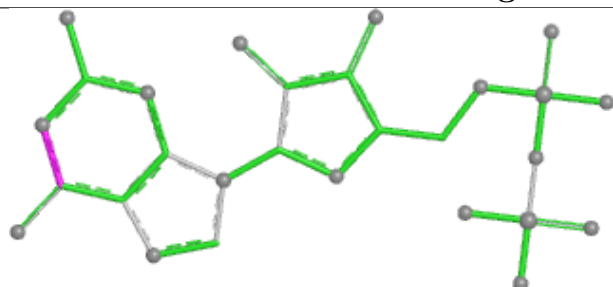


Torsions

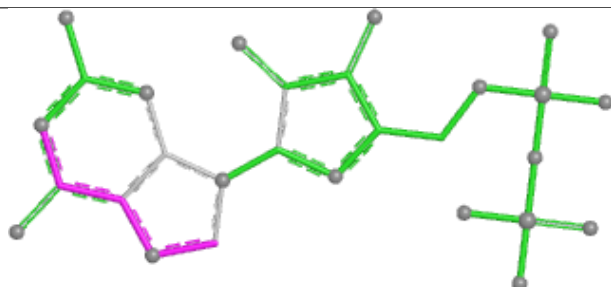


Rings

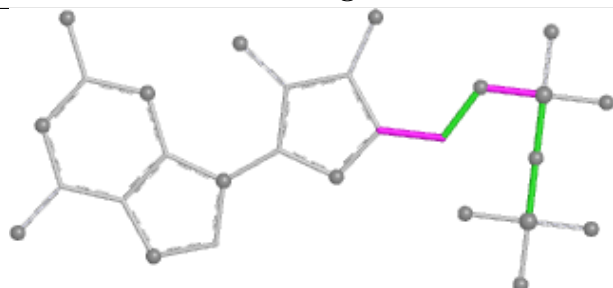
## Ligand GDP BD 501



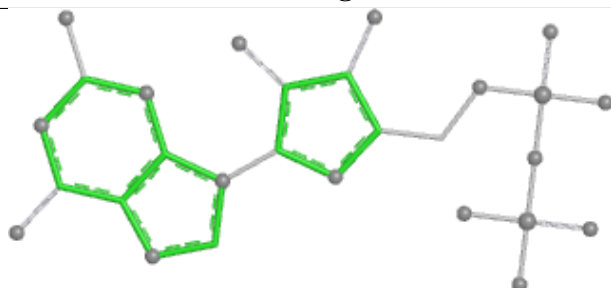
Bond lengths



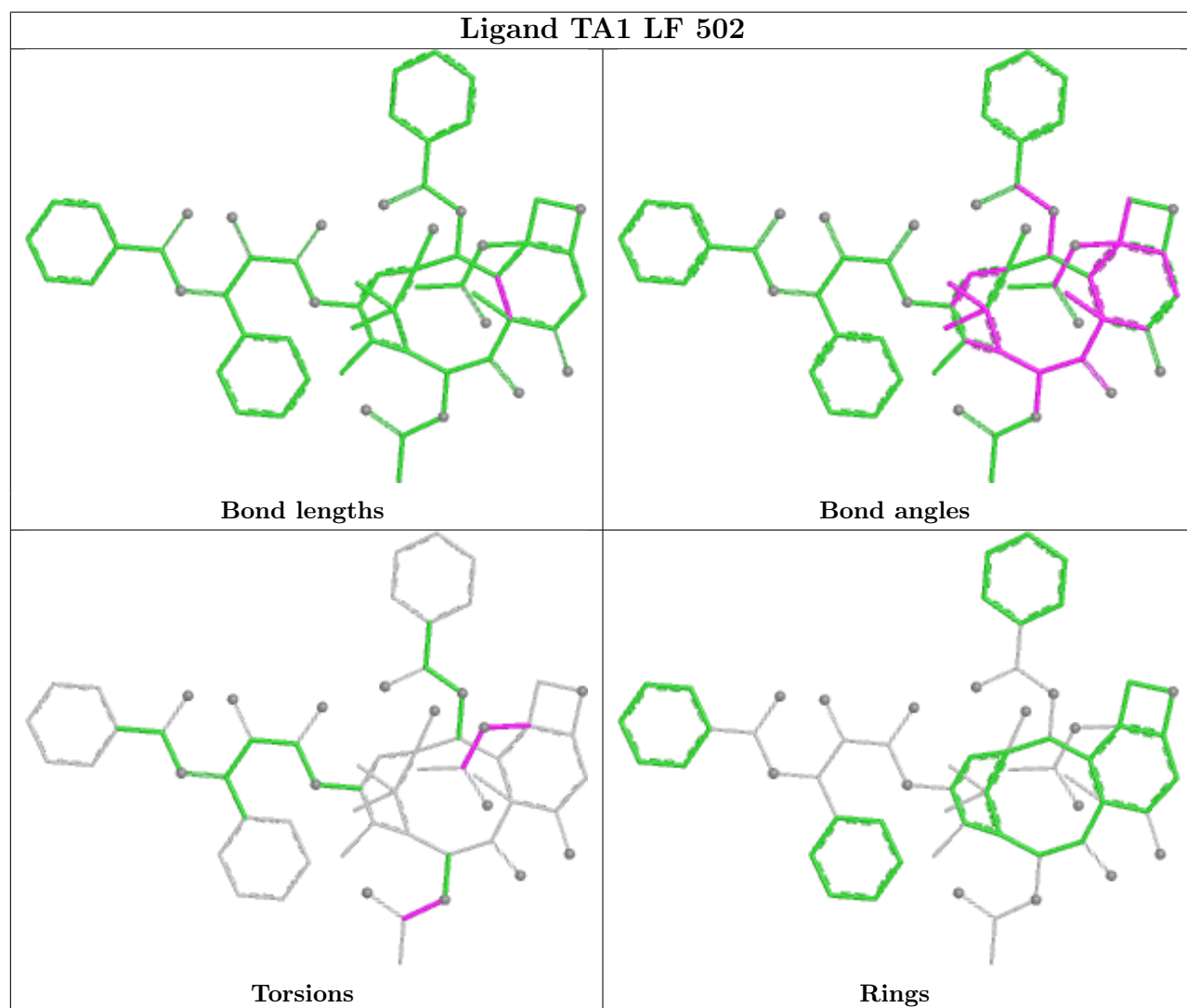
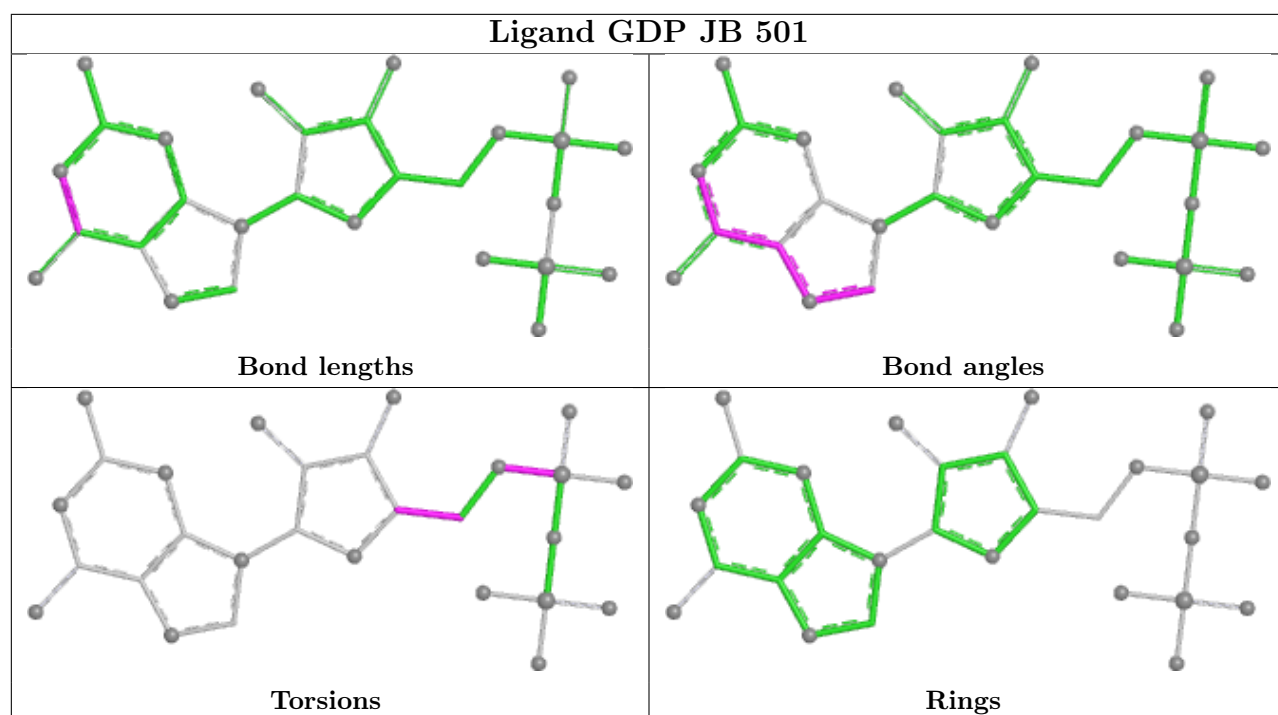
Bond angles



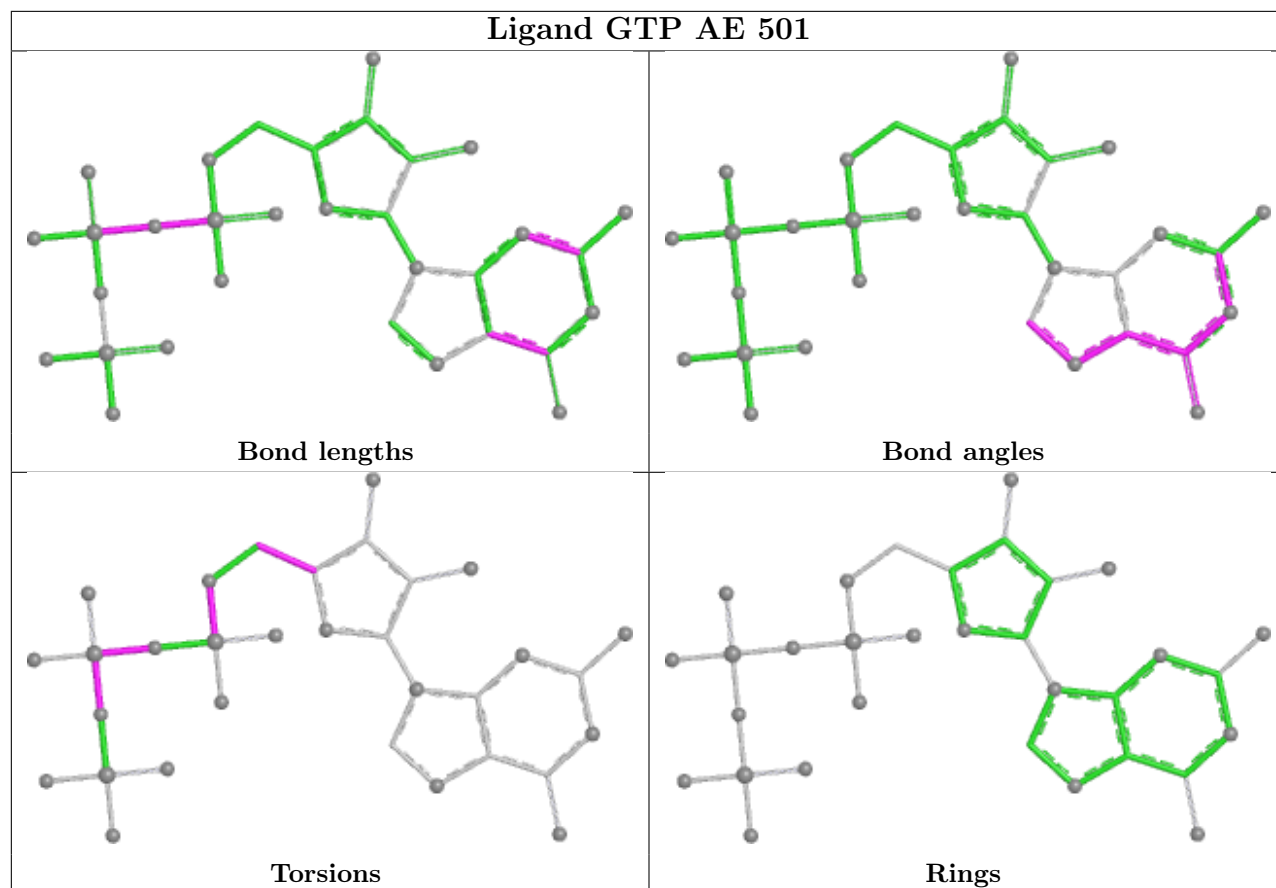
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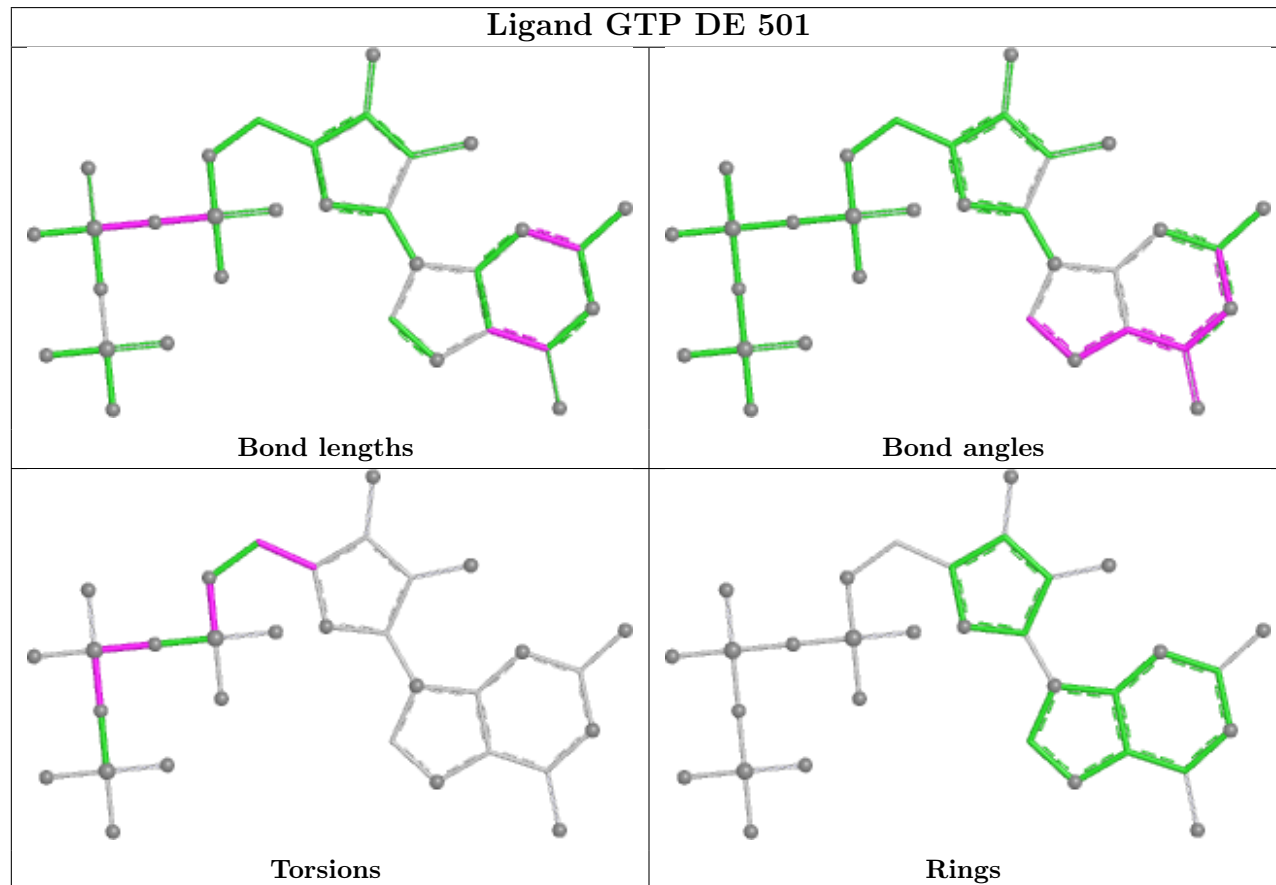
Rings

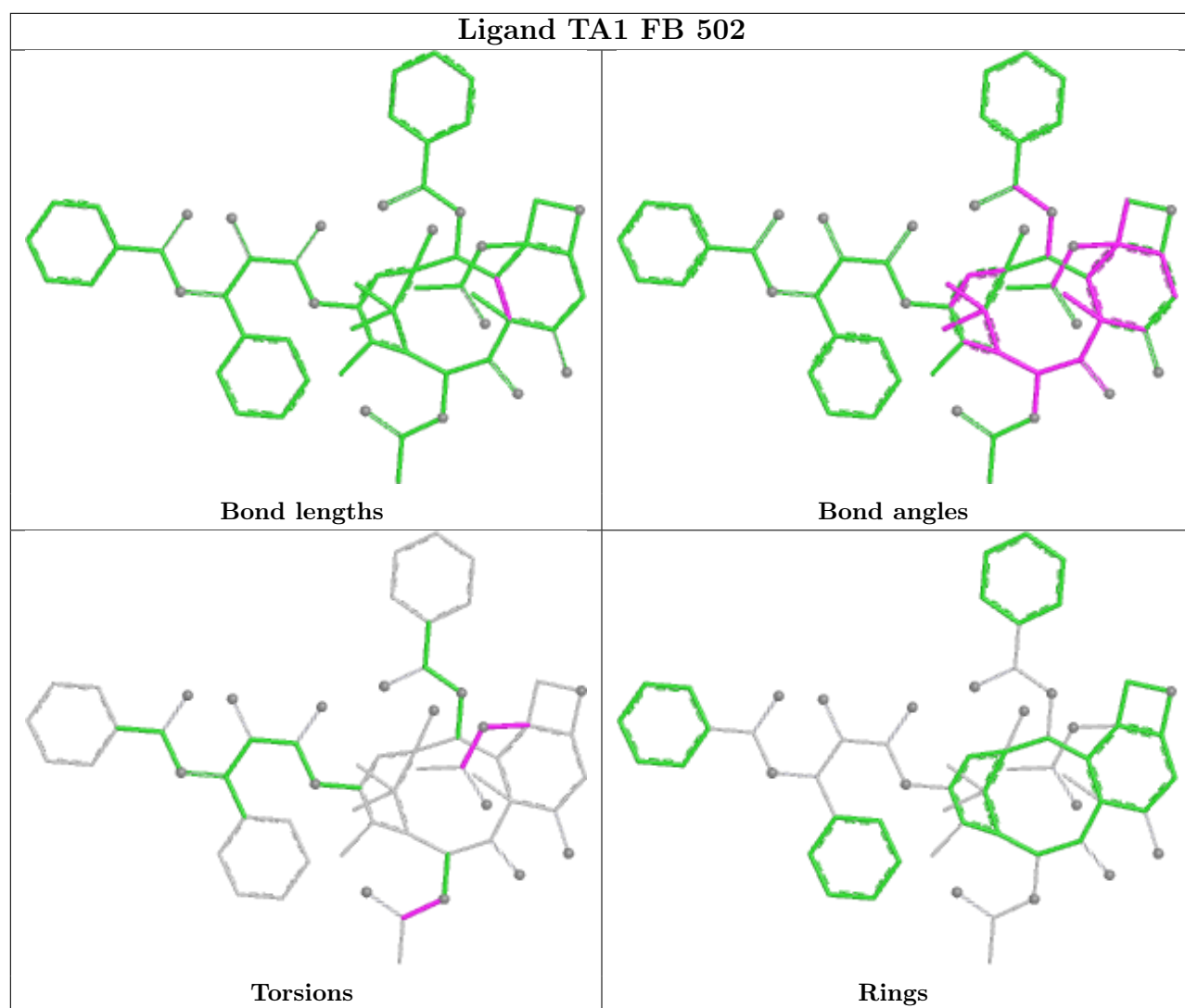


## Ligand GTP AE 501

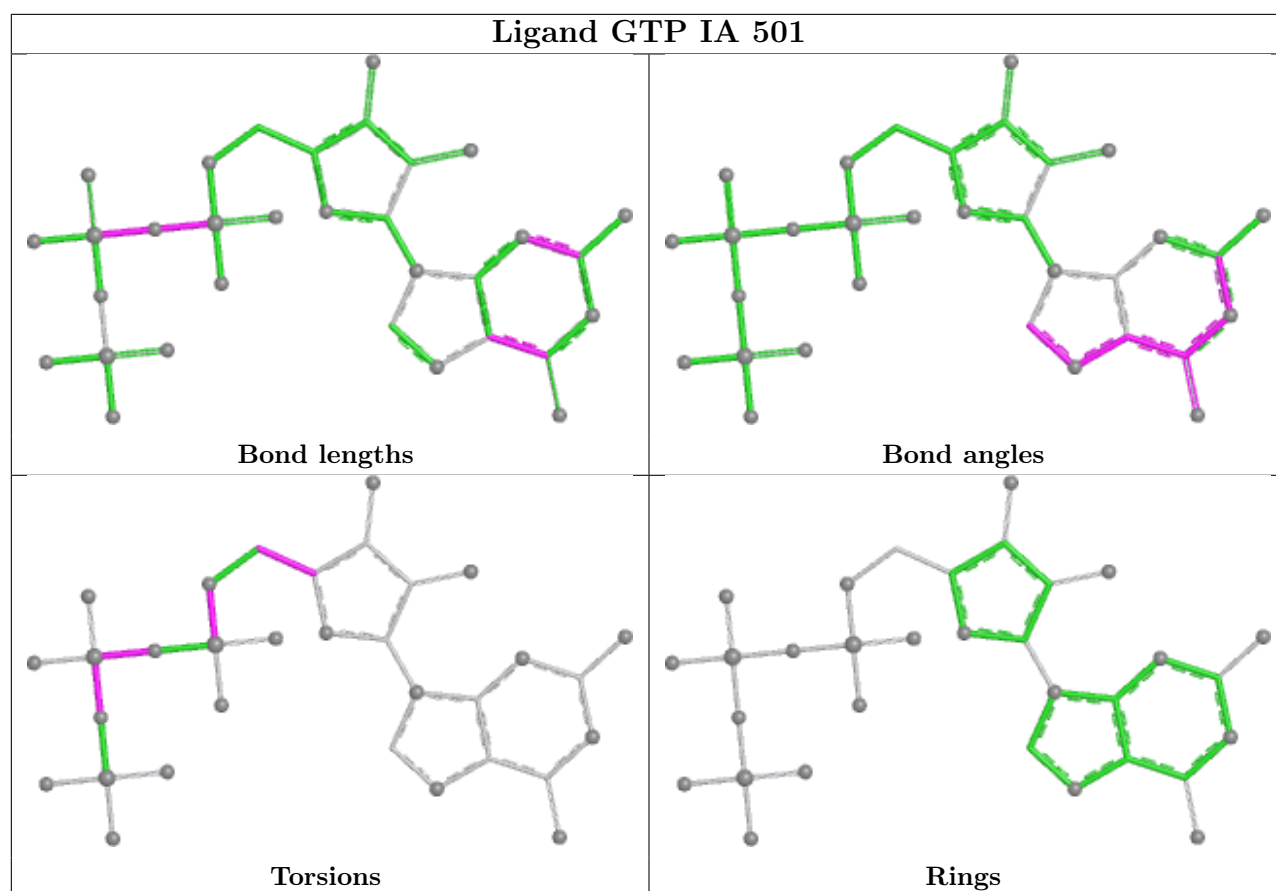


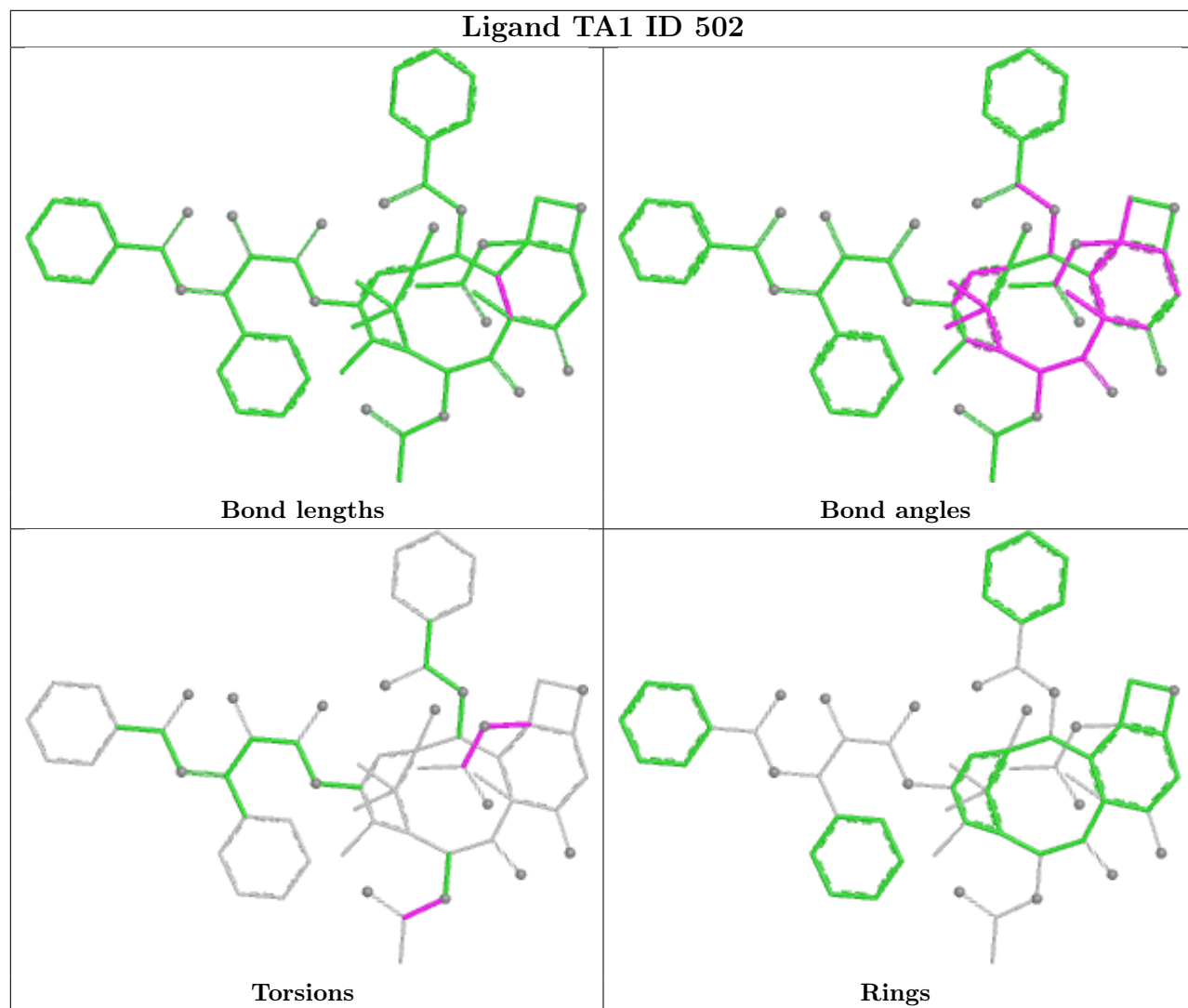
## Ligand GTP DE 501

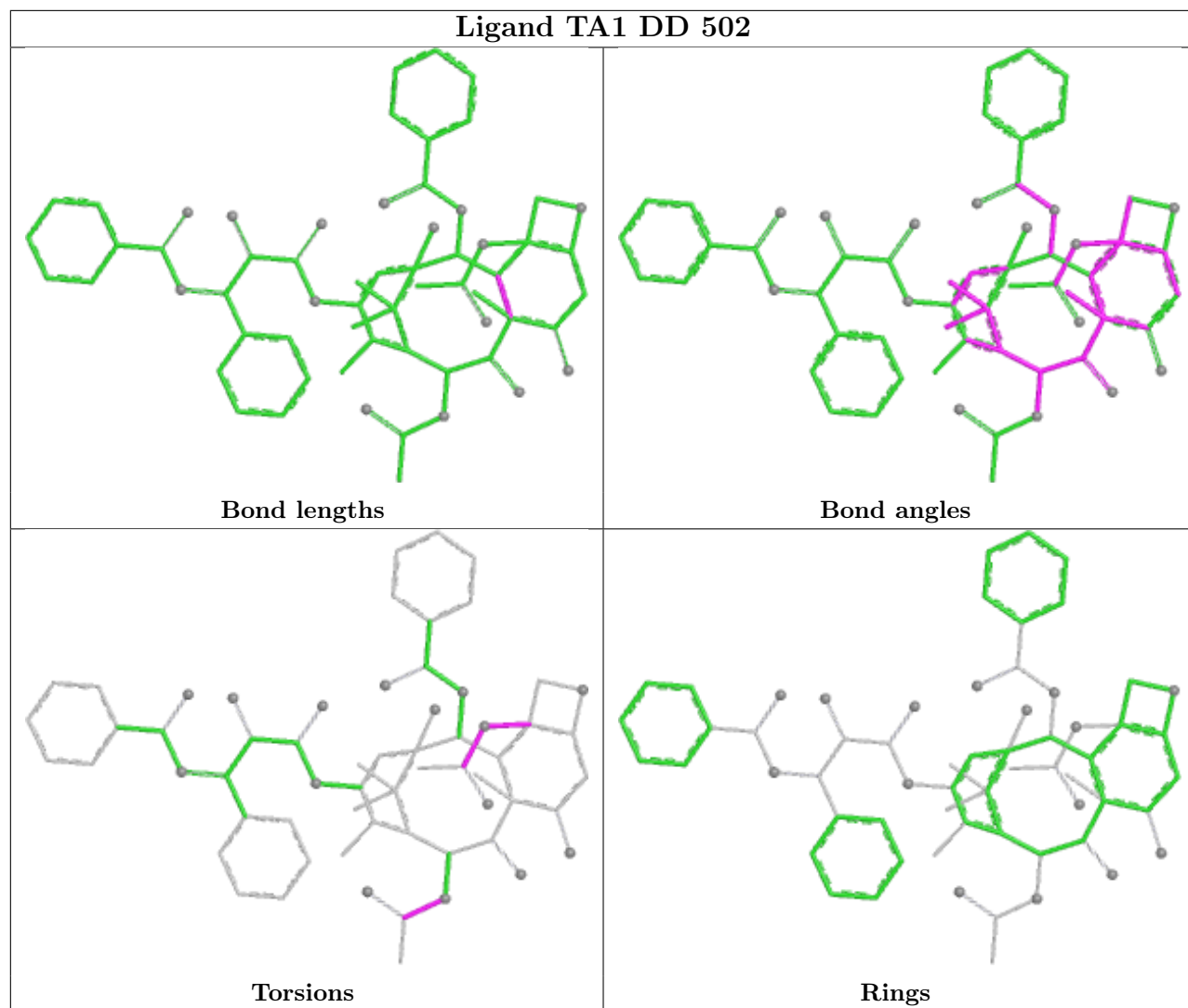




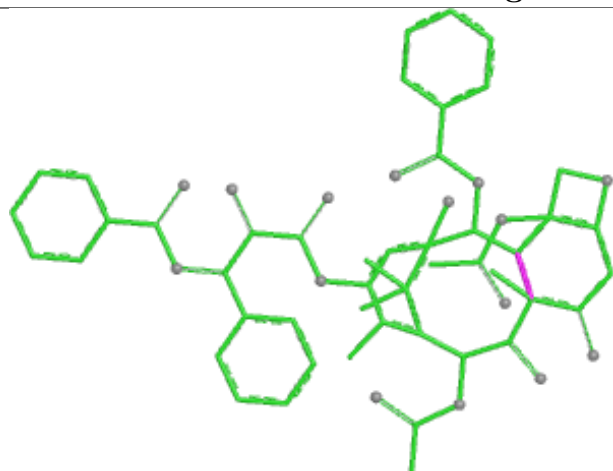




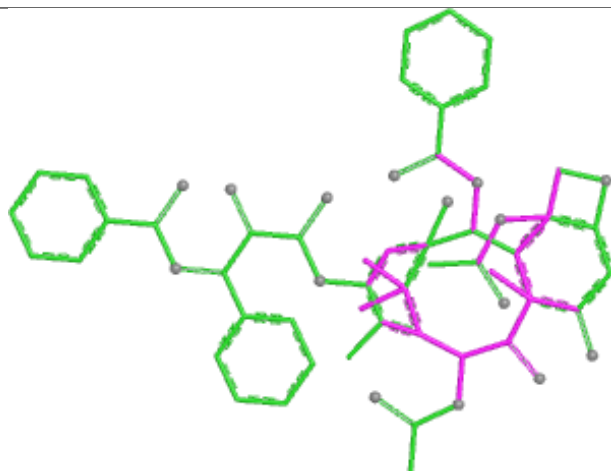




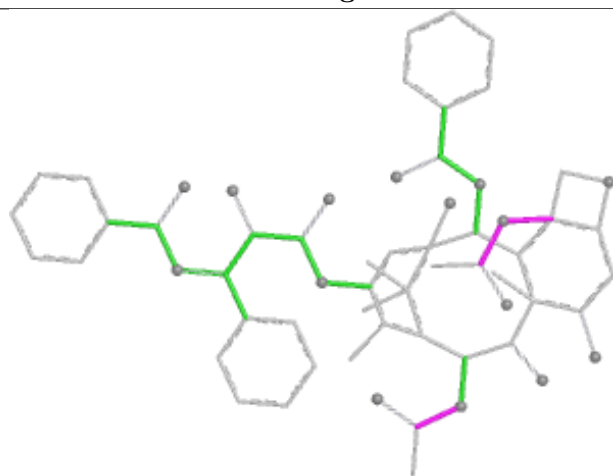
## Ligand TA1 CB 502



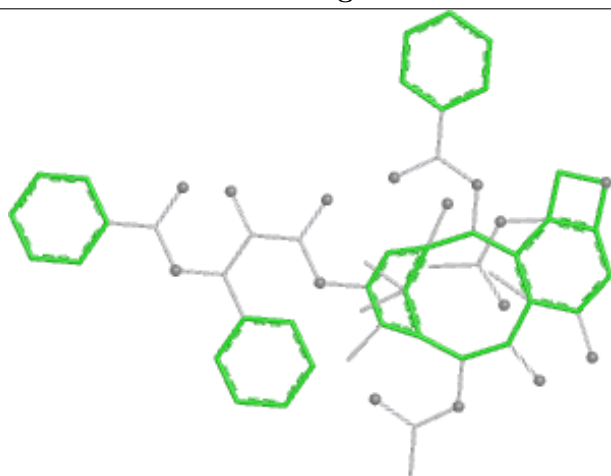
Bond lengths



Bond angles

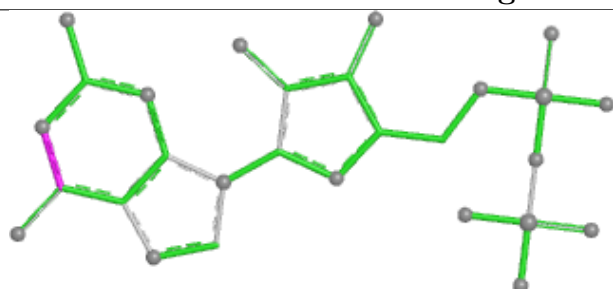


Torsions

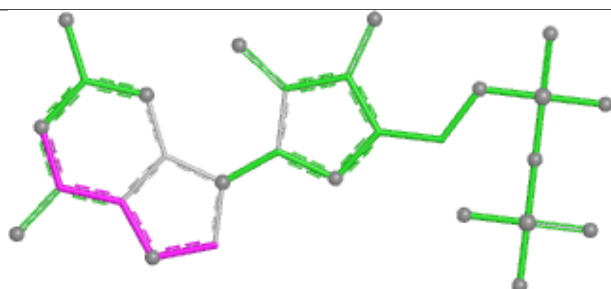


Rings

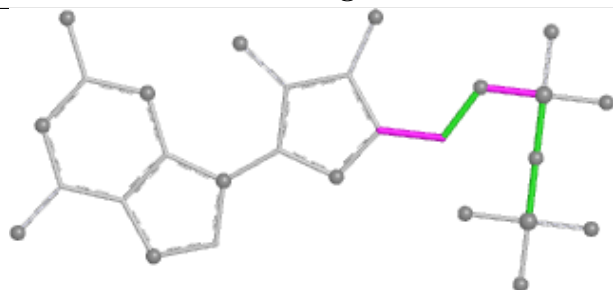
## Ligand GDP DB 501



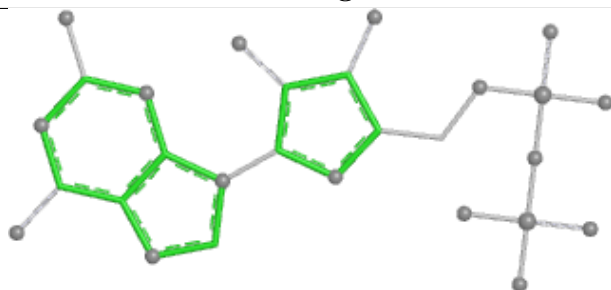
Bond lengths



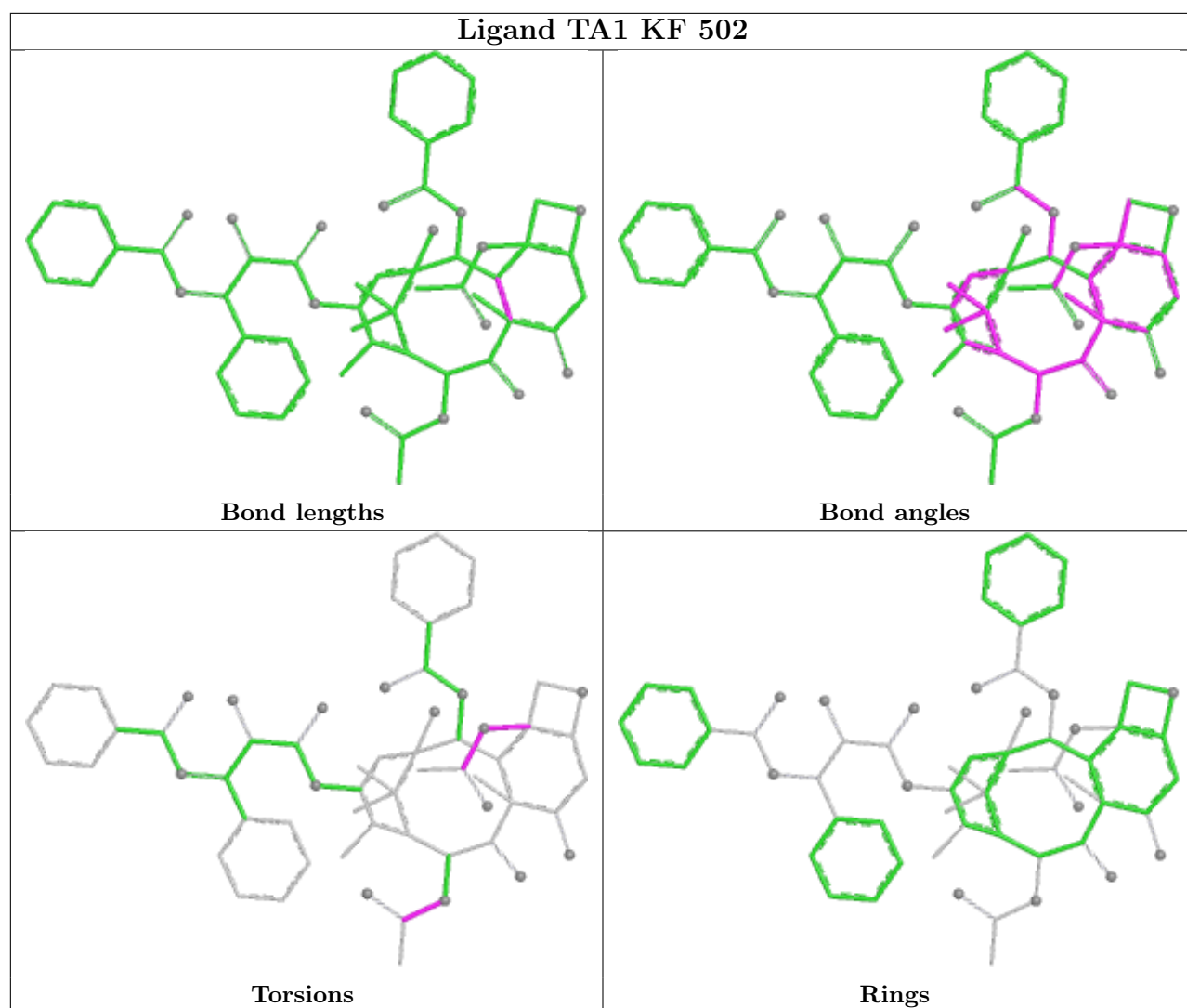
Bond angles

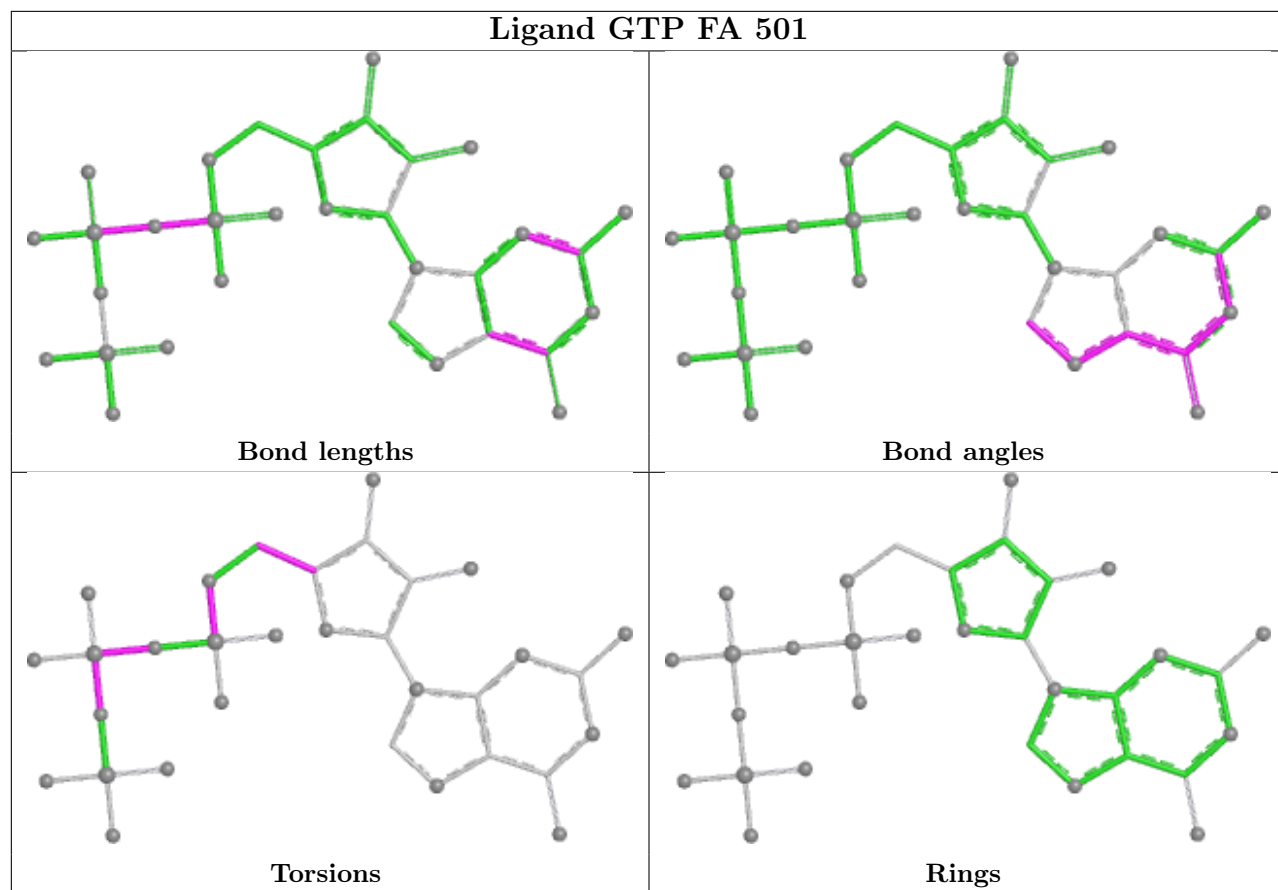


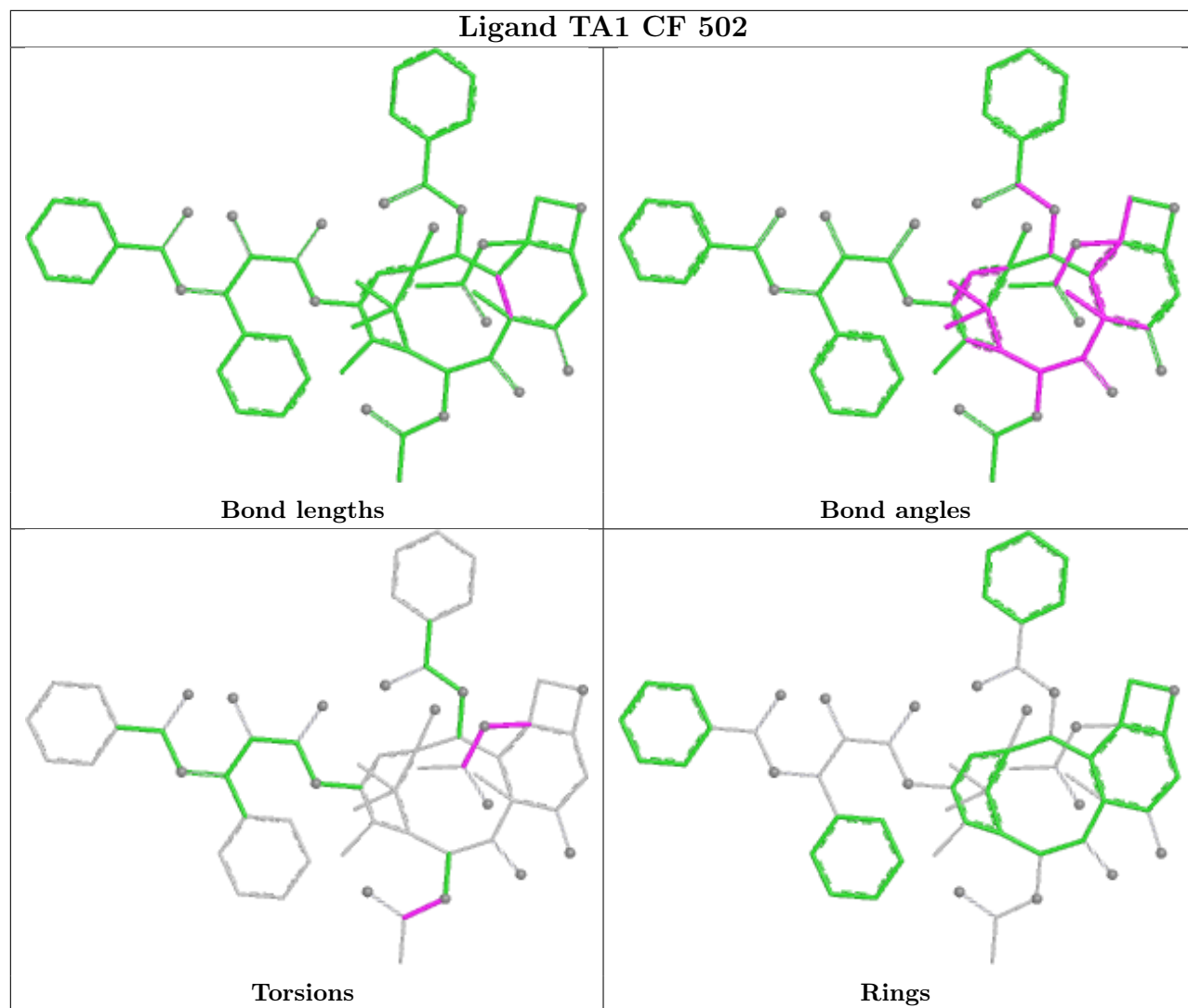
Torsions



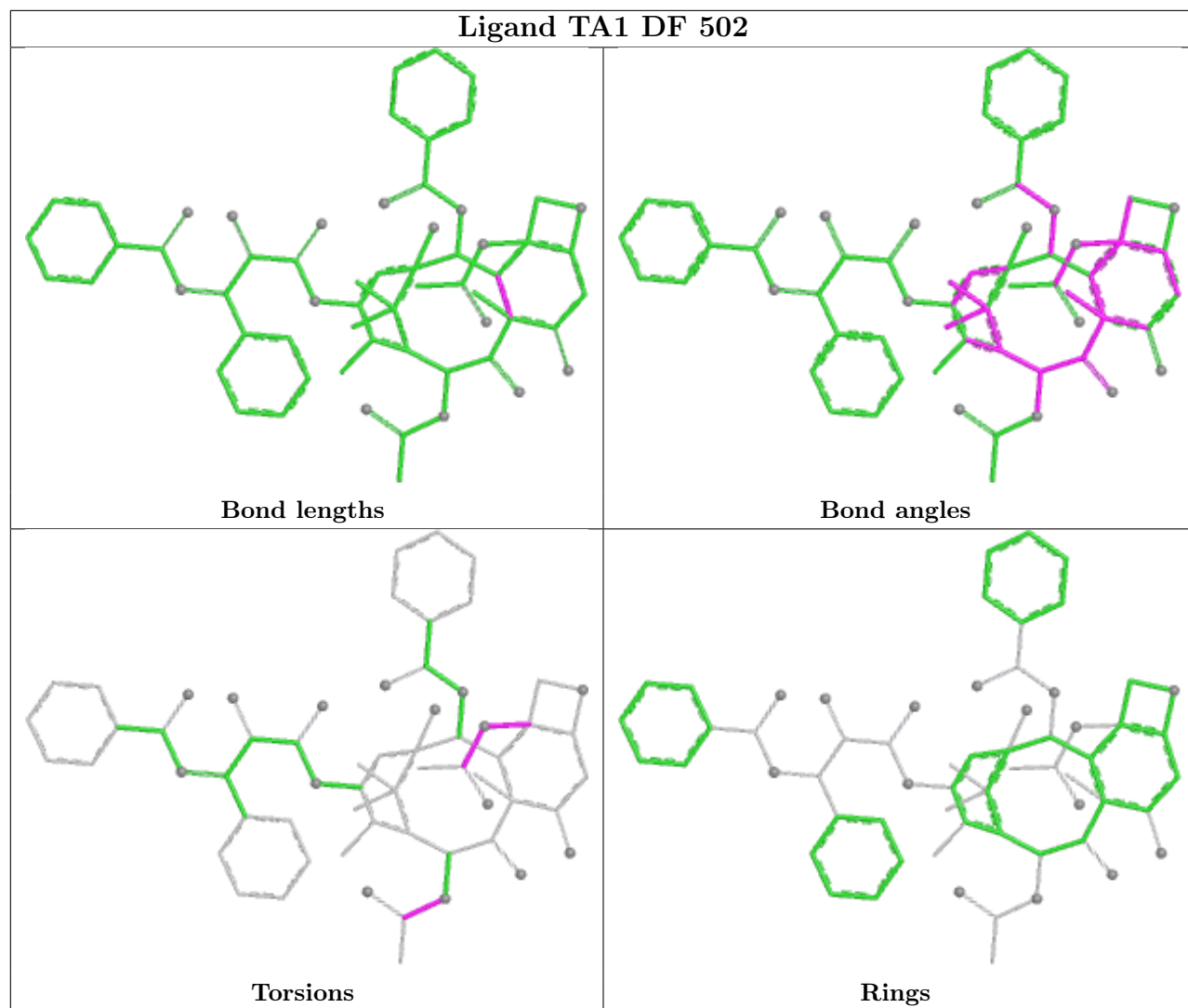
Rings



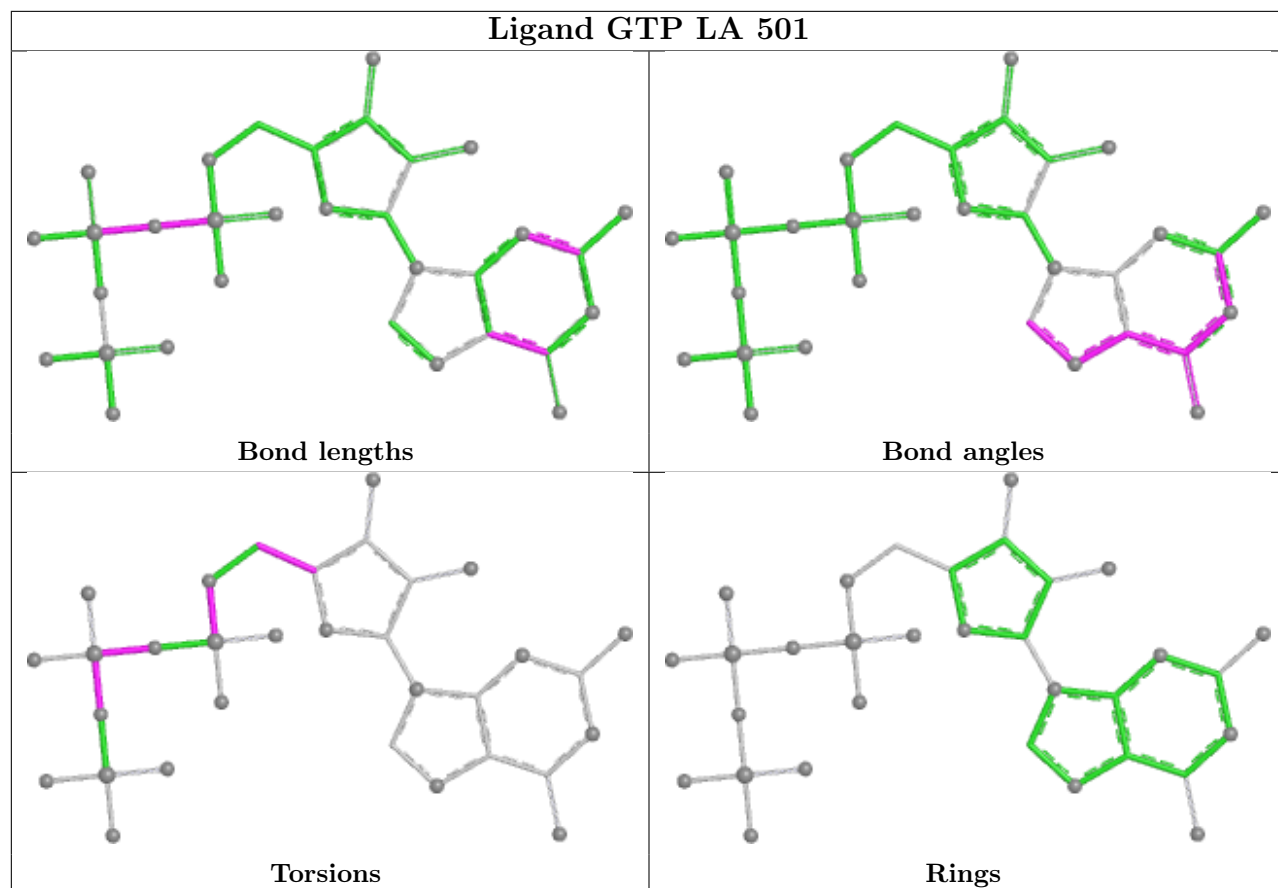




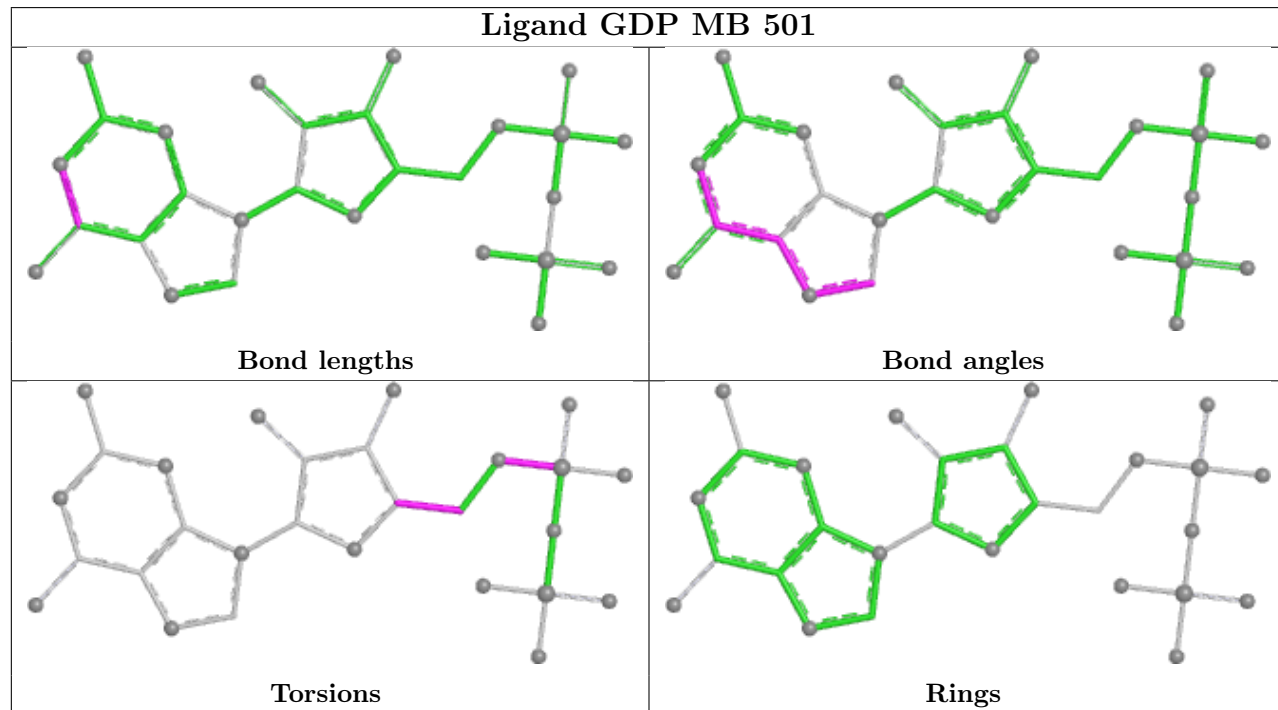


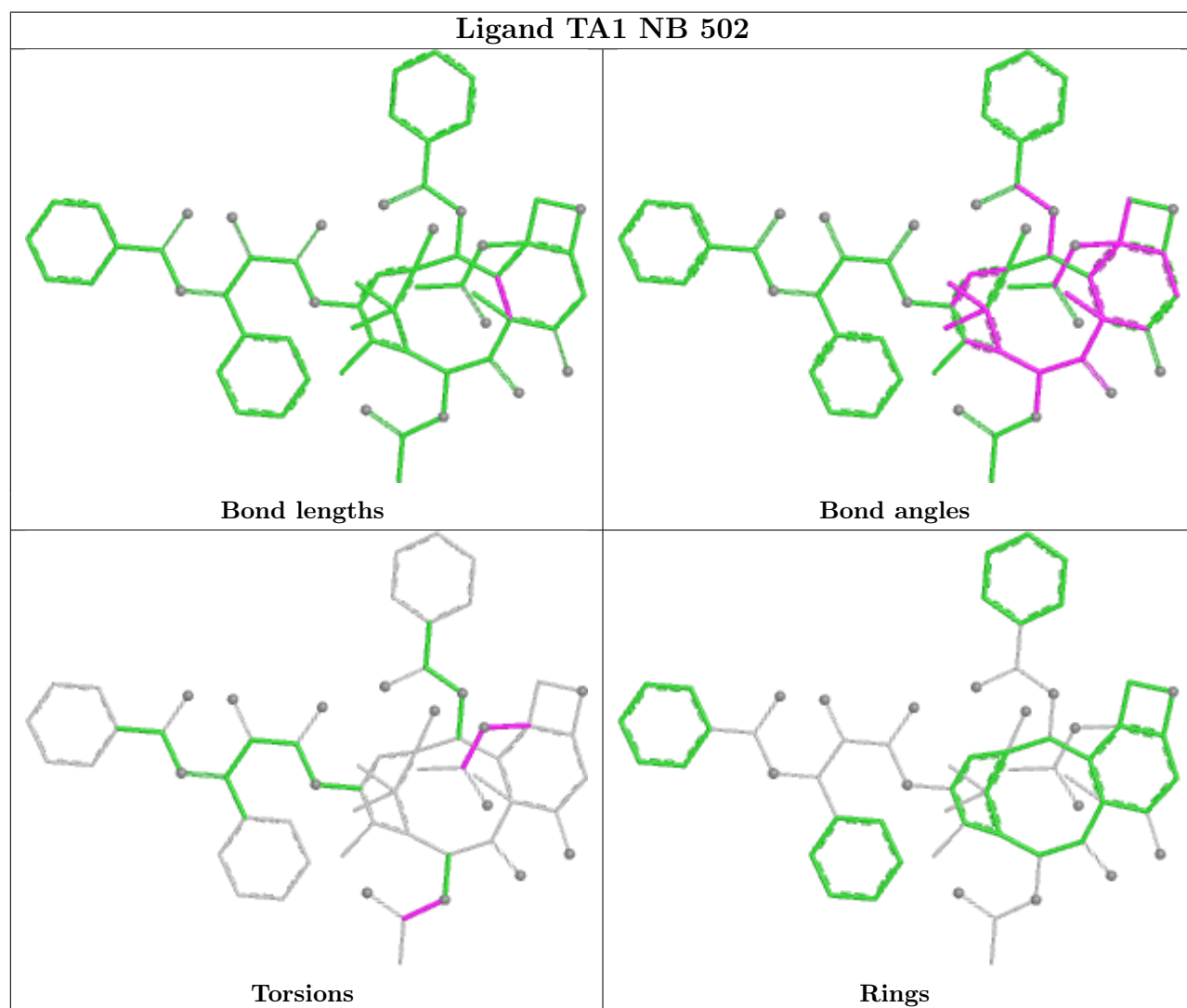
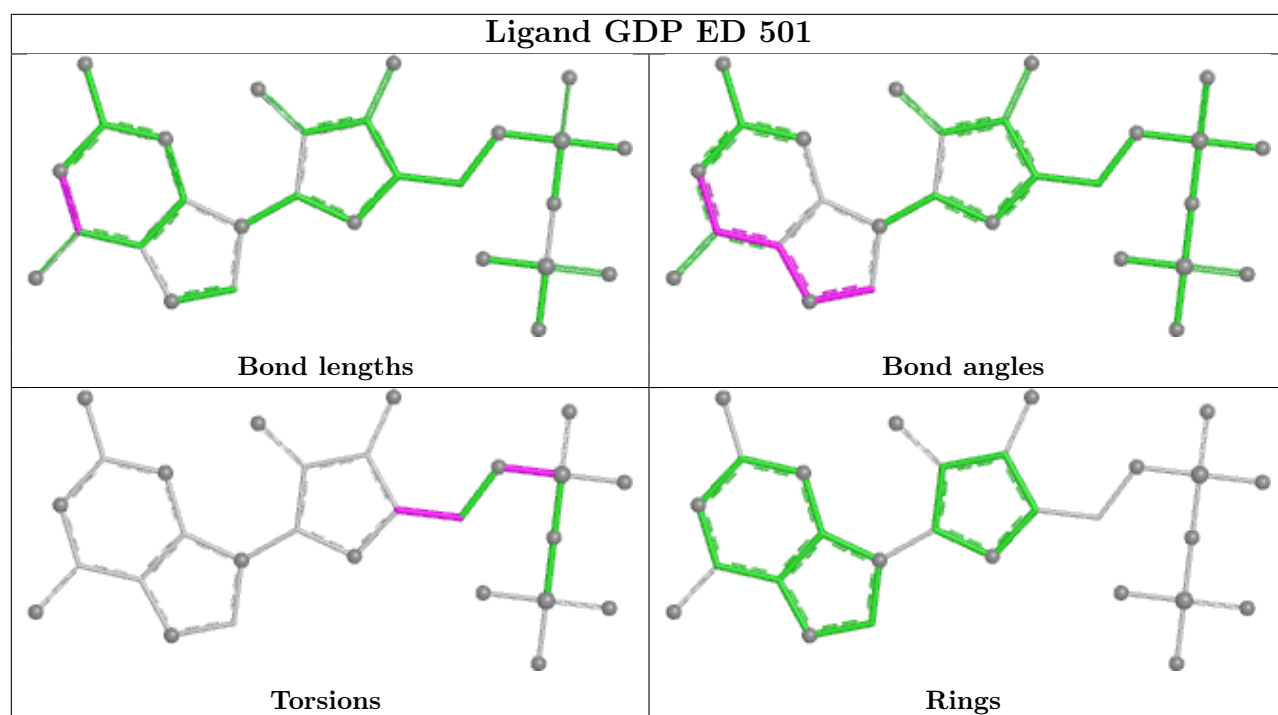


## Ligand GTP LA 501

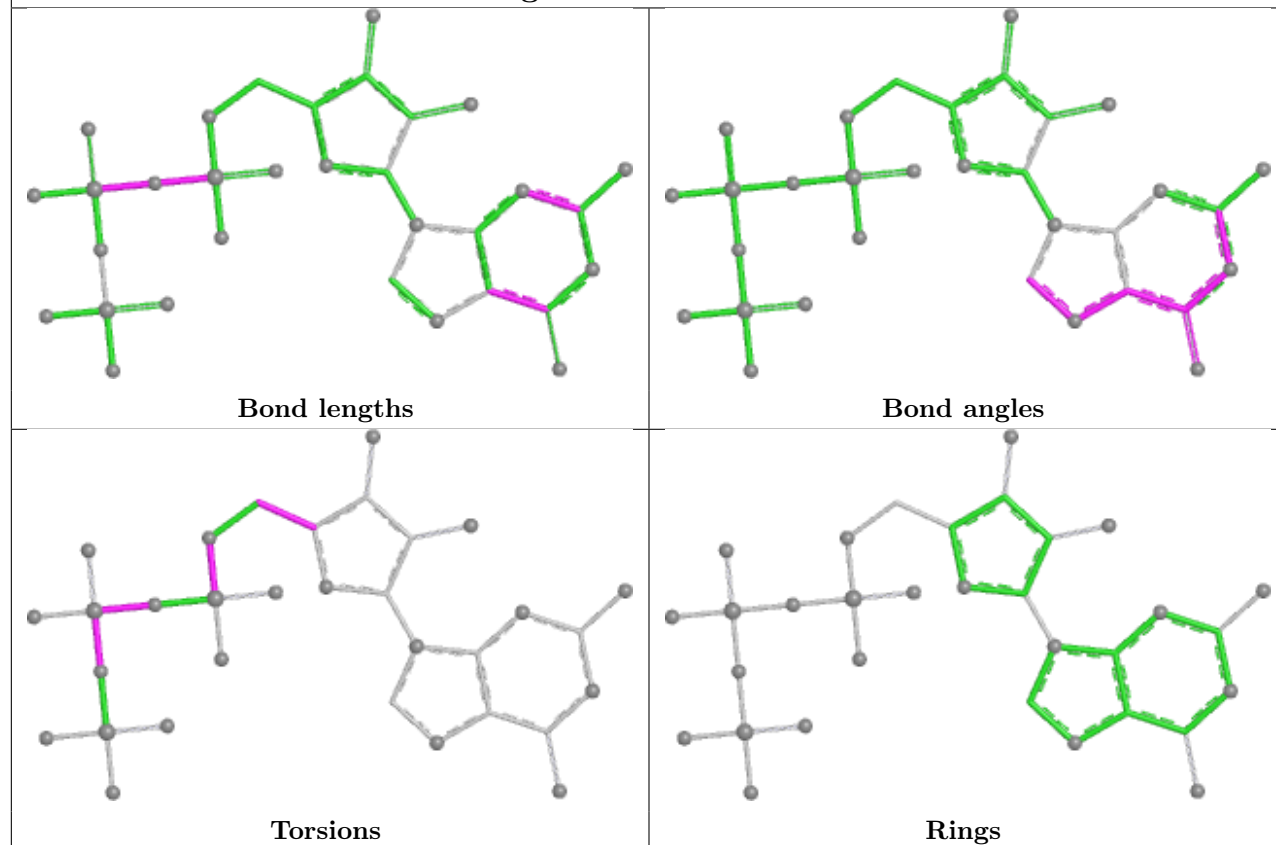


## Ligand GDP MB 501

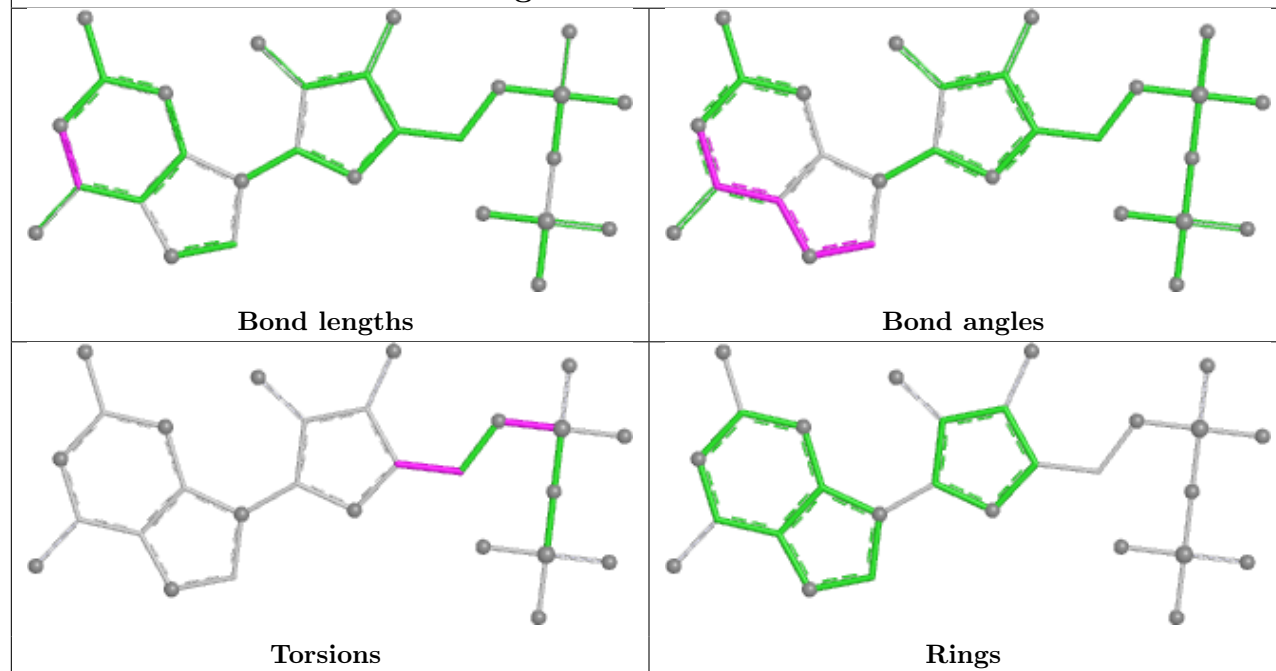


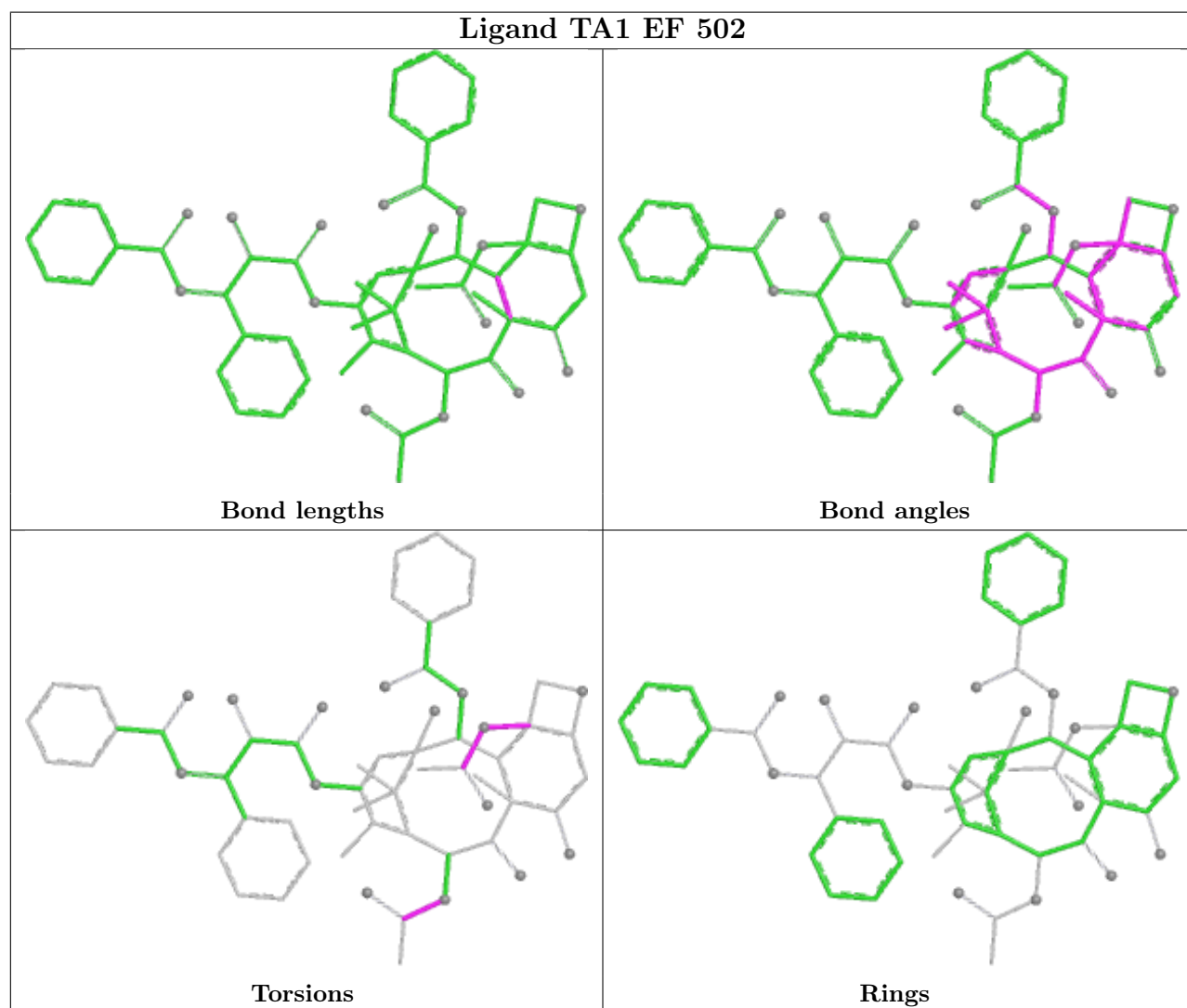
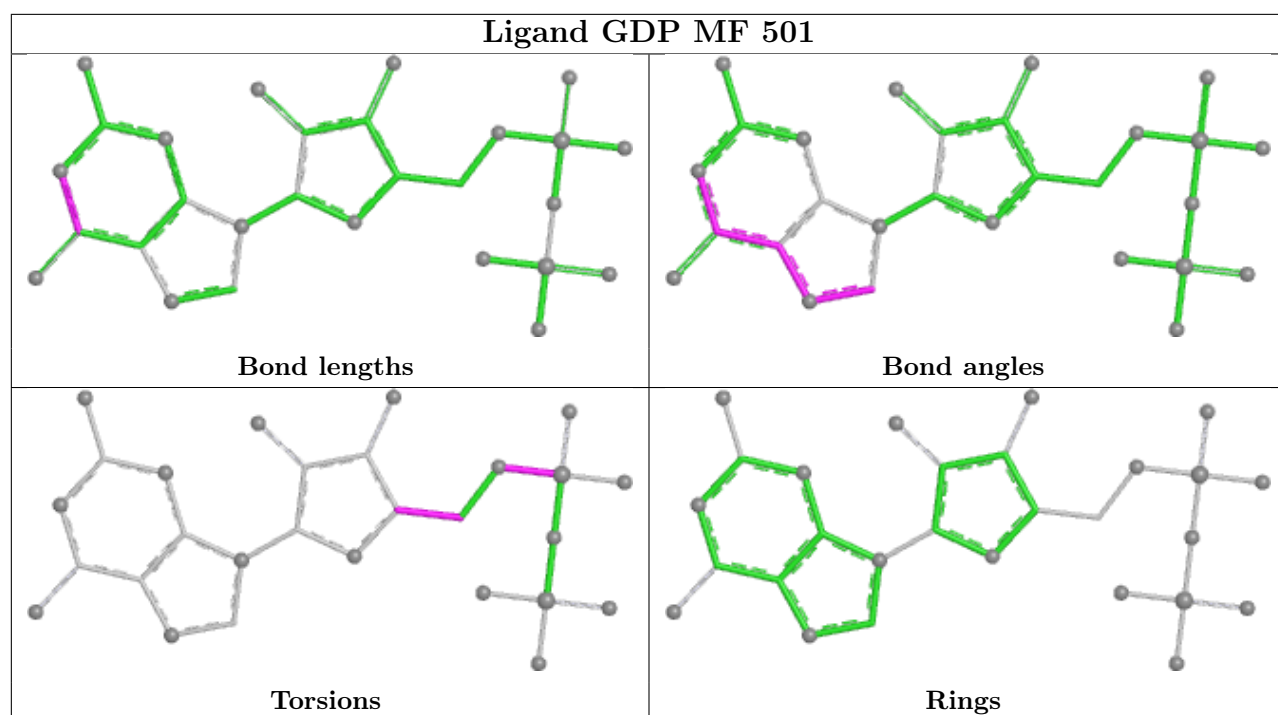


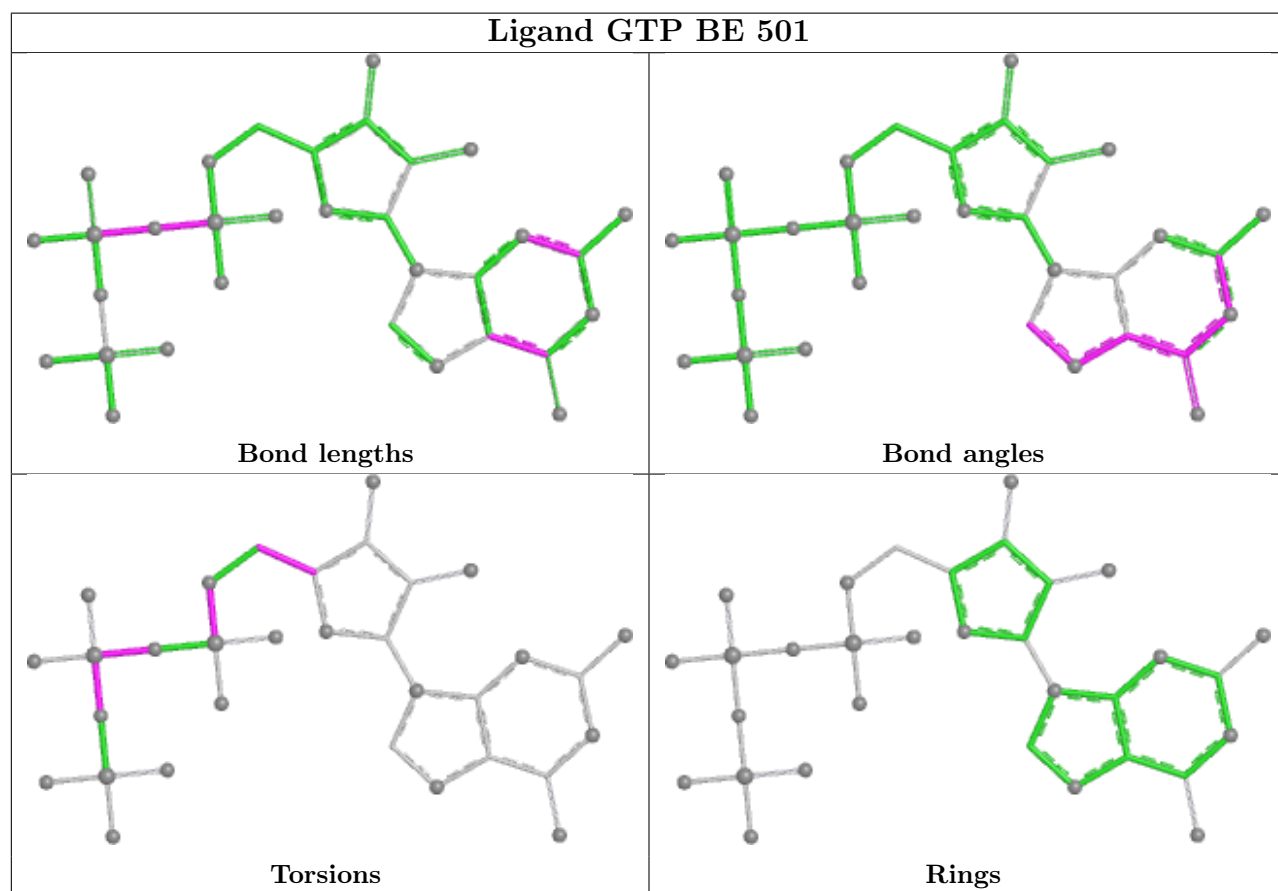
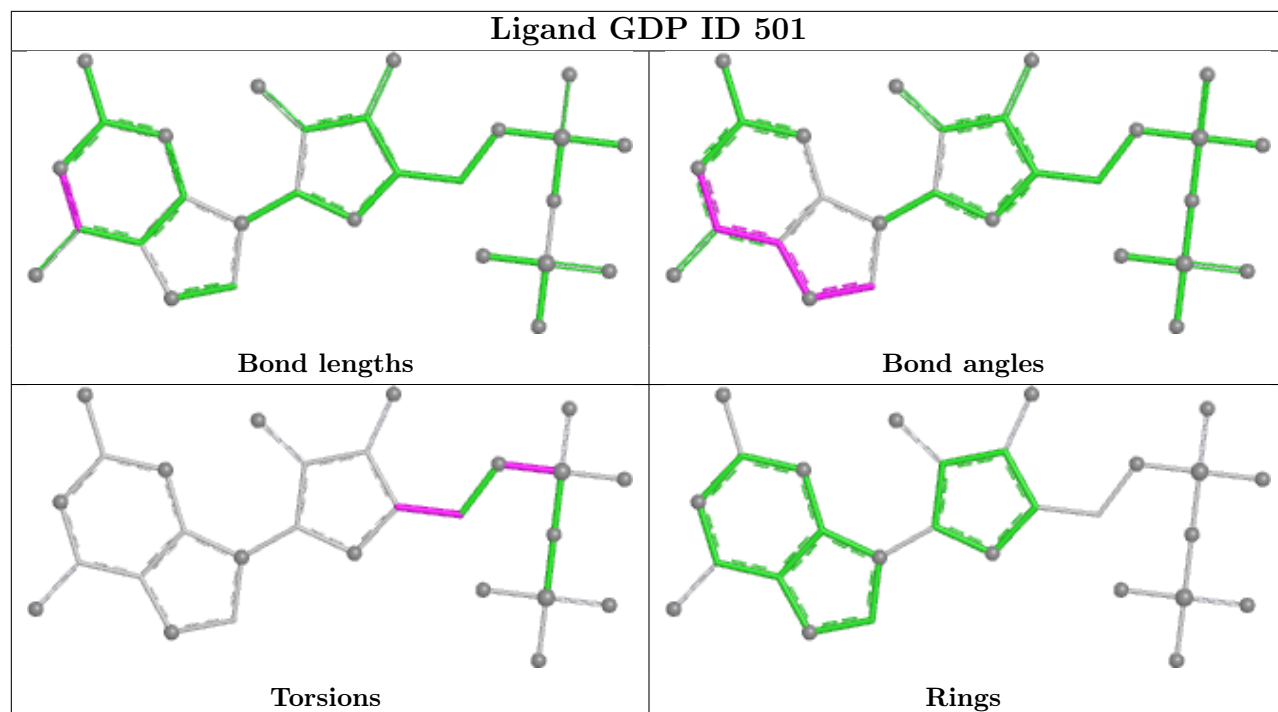
## Ligand GTP JA 501



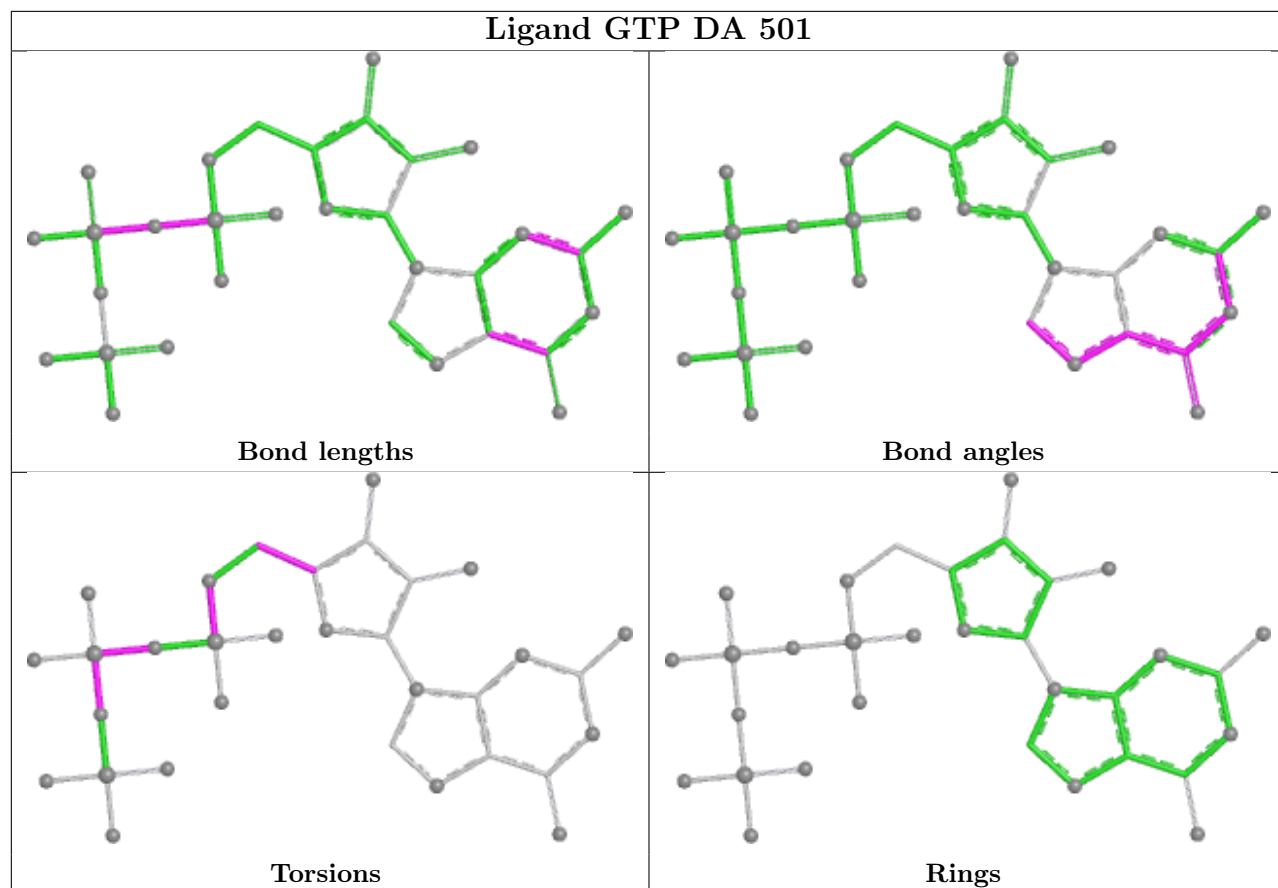
## Ligand GDP HD 501



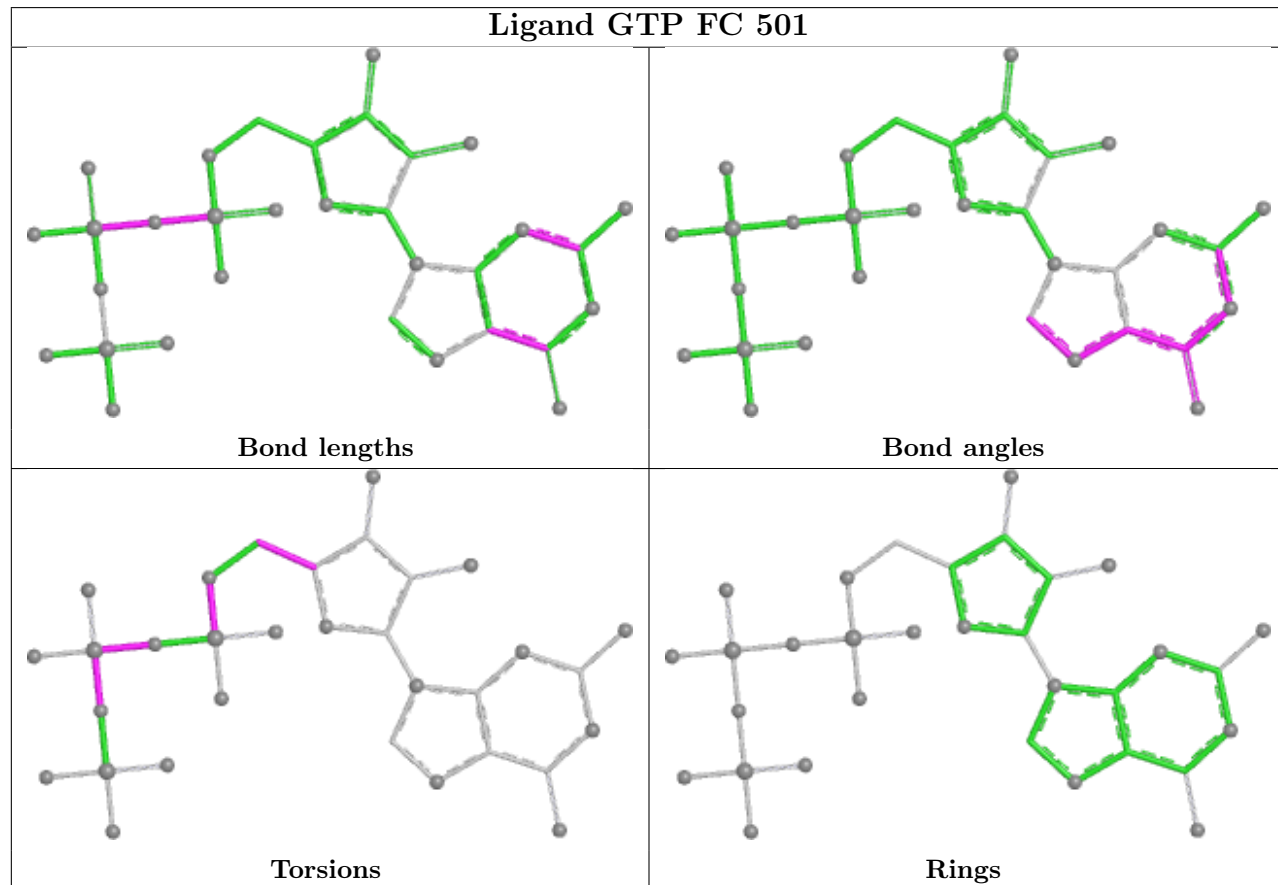




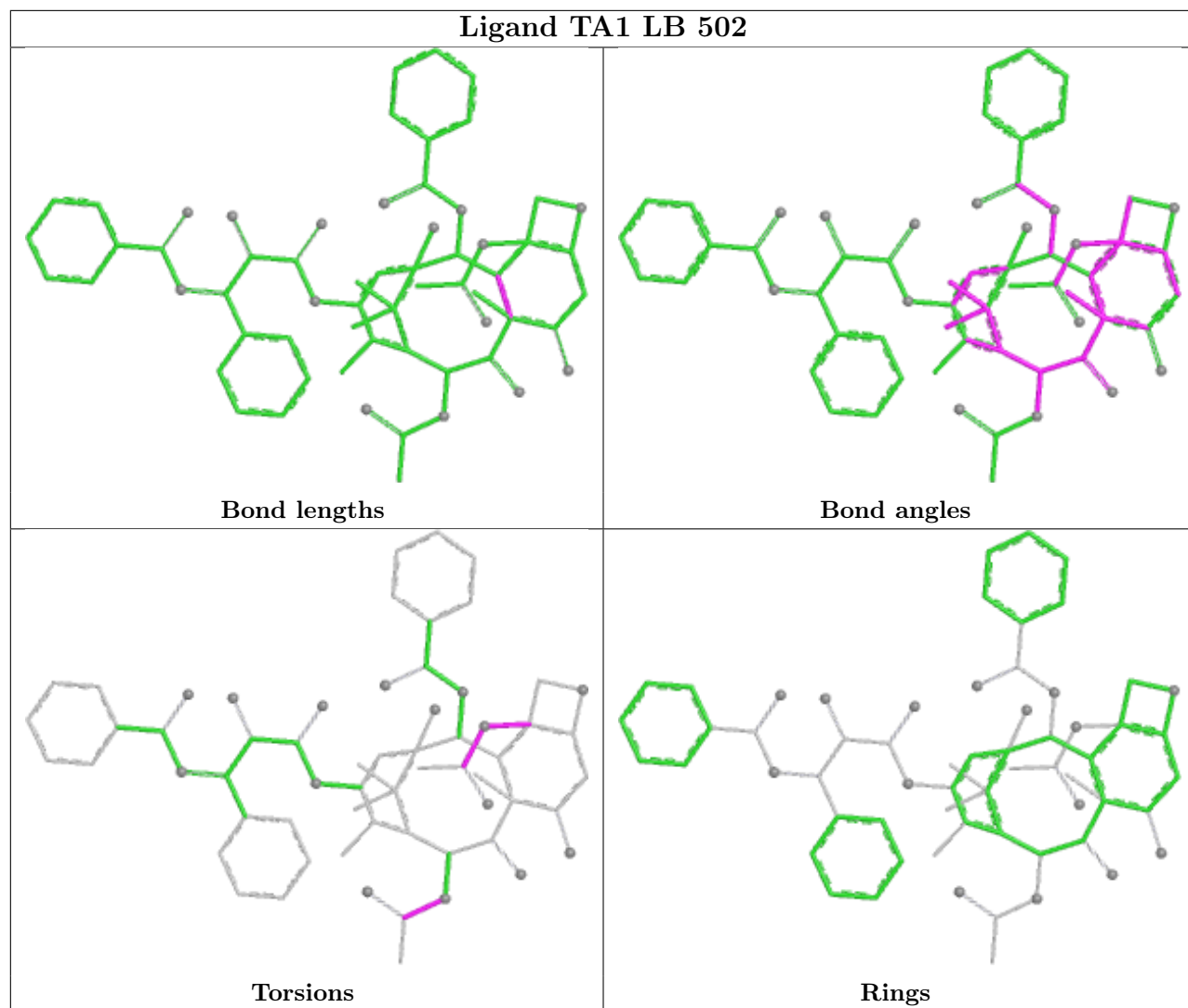
## Ligand GTP DA 501



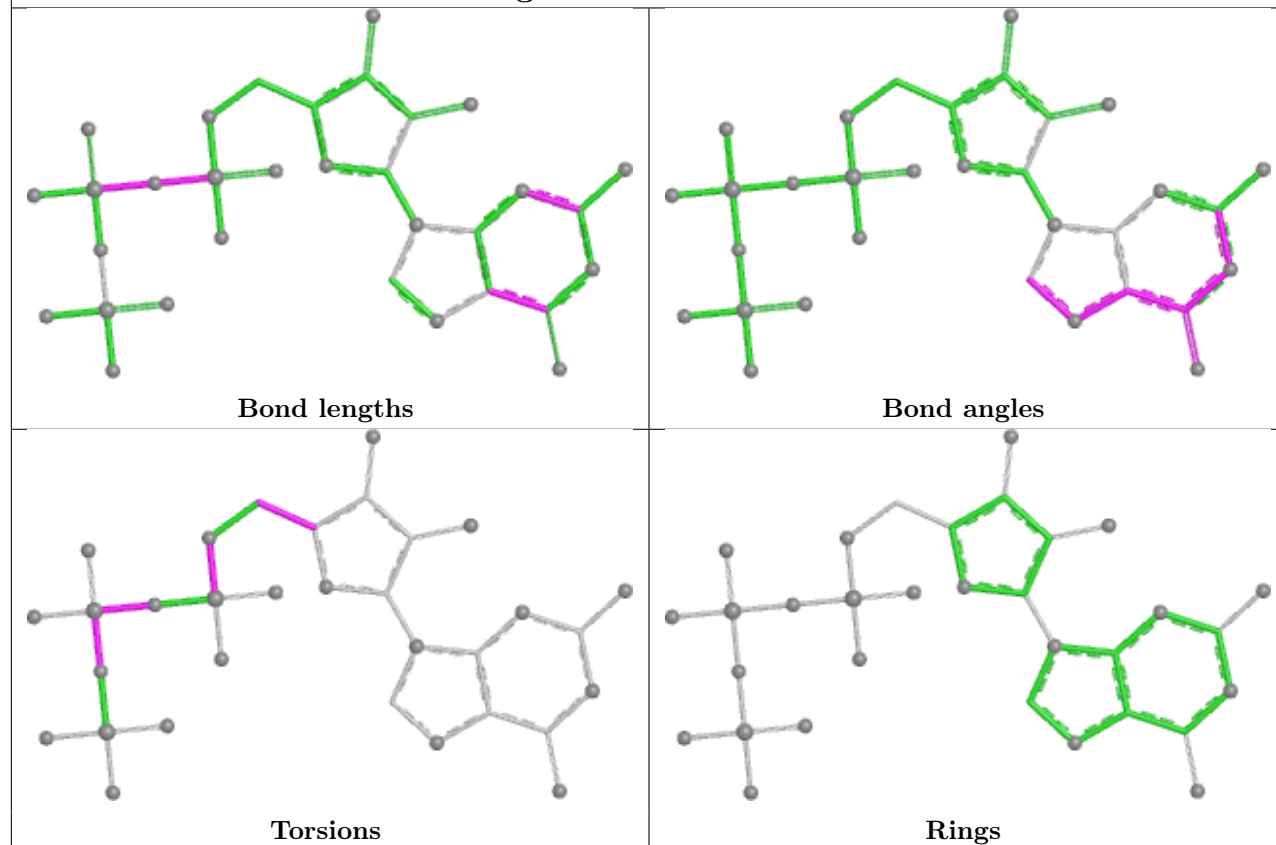
## Ligand GTP FC 501



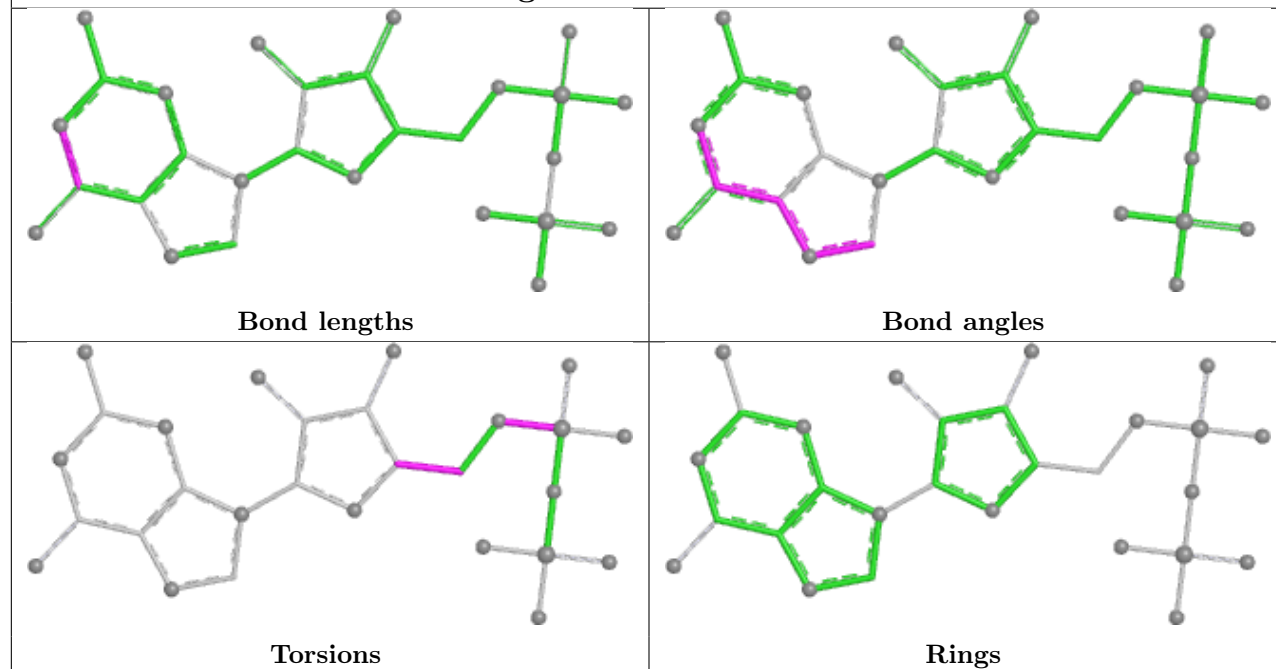




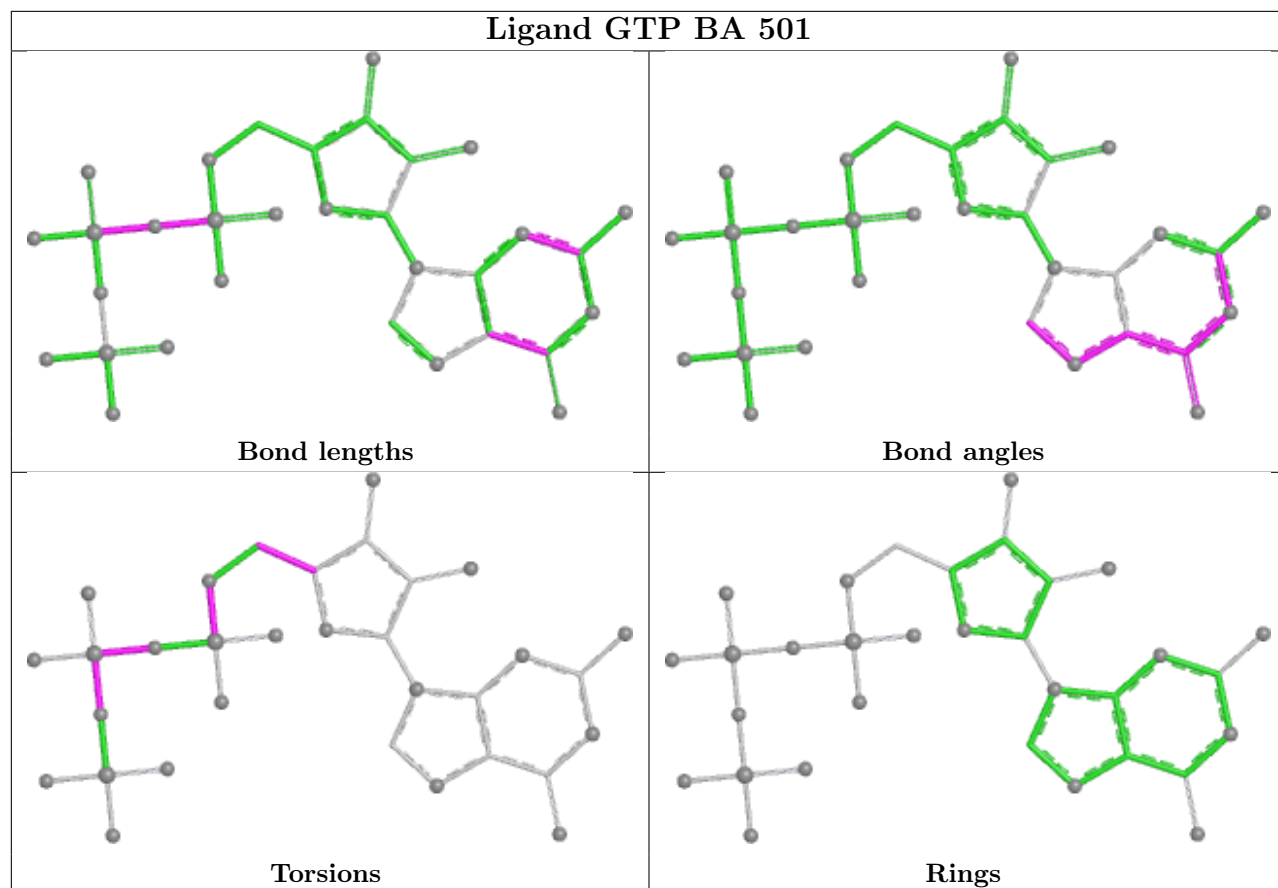
## Ligand GTP GA 501



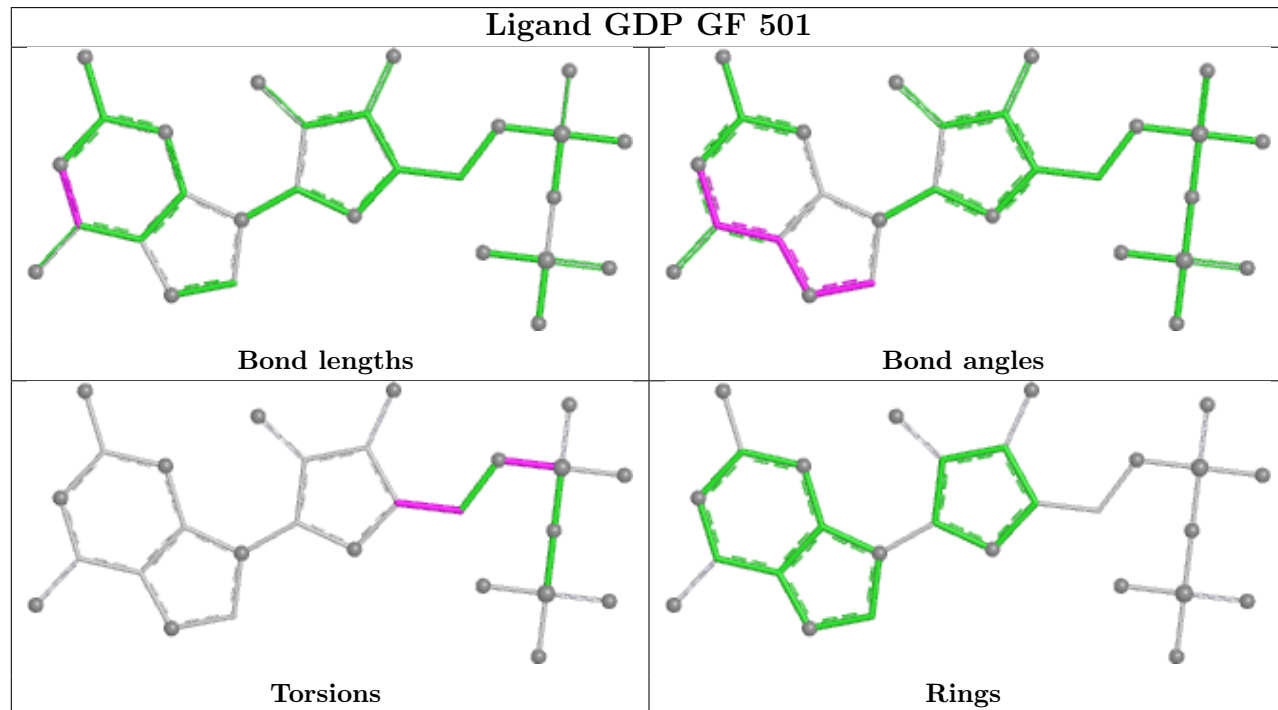
## Ligand GDP LD 501

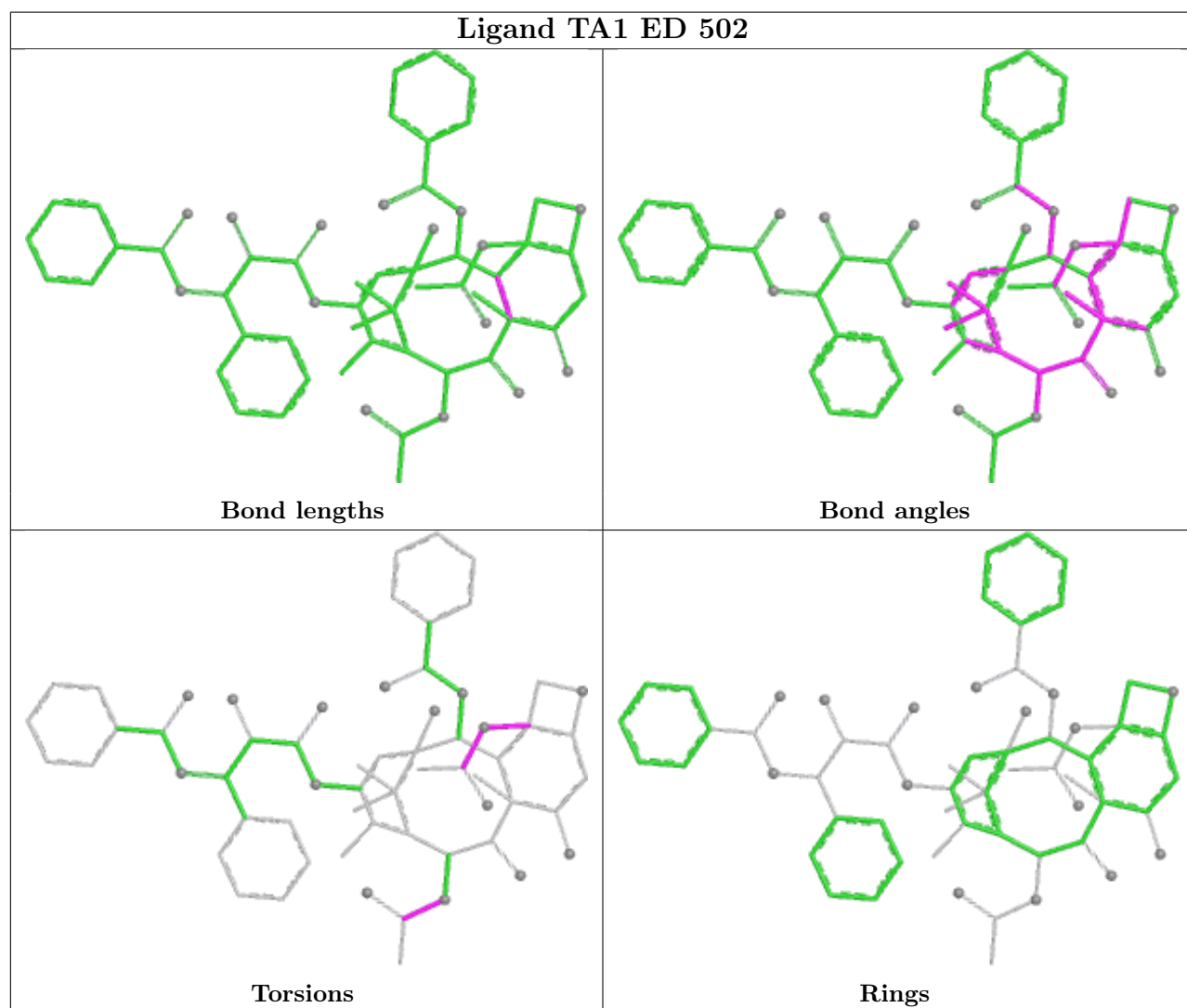
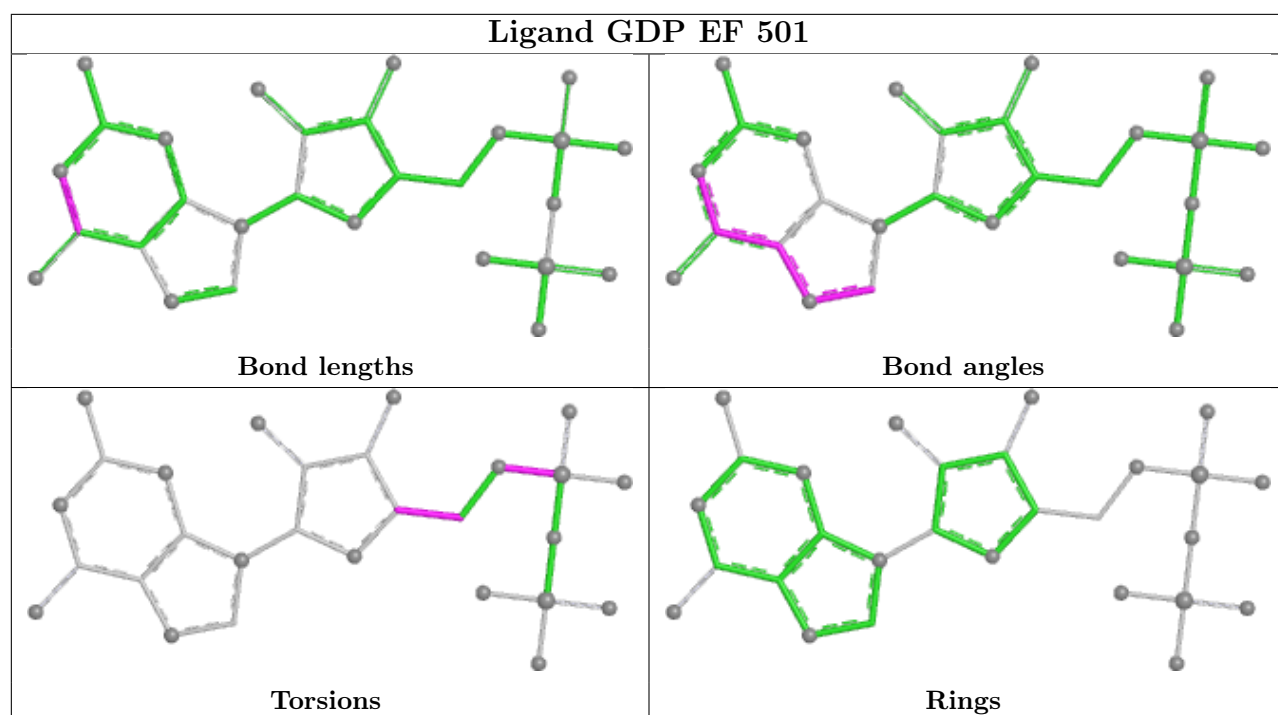


## Ligand GTP BA 501

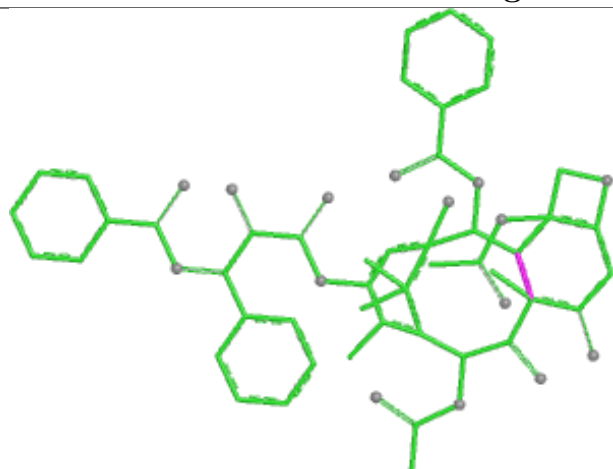


## Ligand GDP GF 501

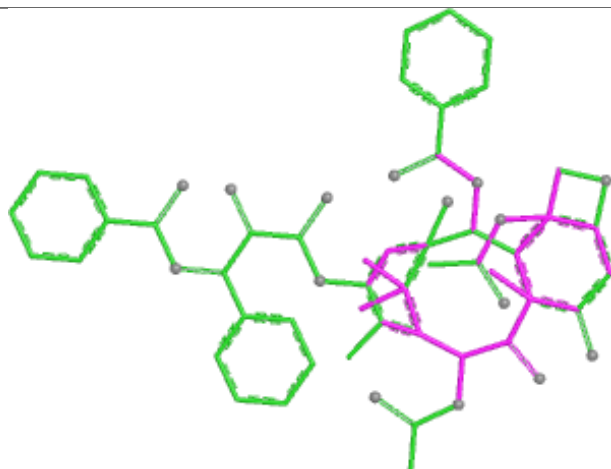




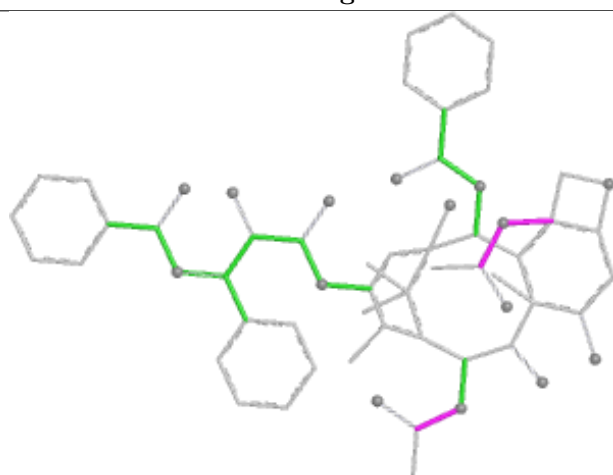
## Ligand TA1 AD 502



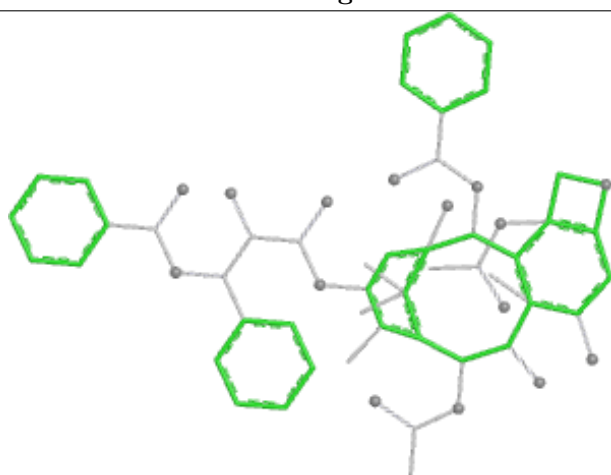
Bond lengths



Bond angles

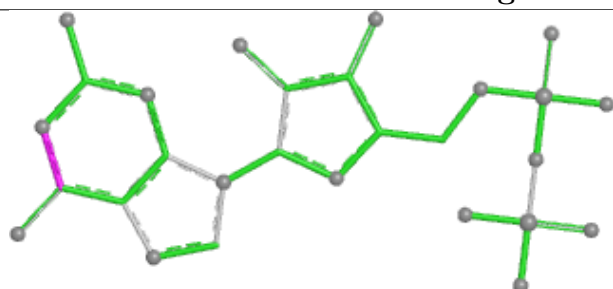


Torsions

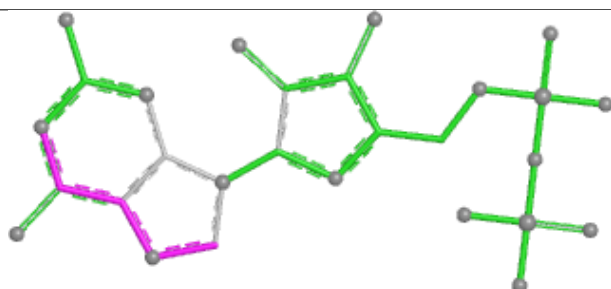


Rings

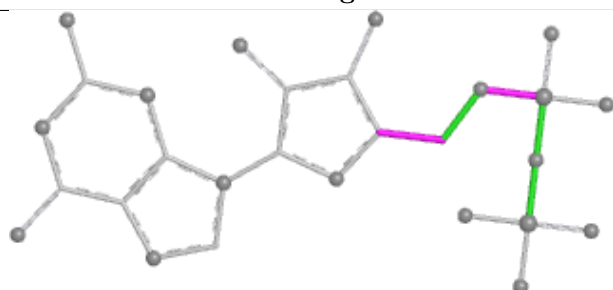
## Ligand GDP NB 501



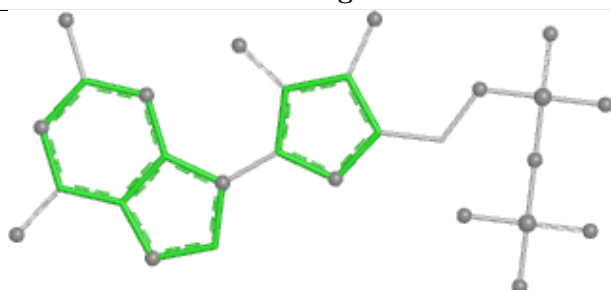
Bond lengths



Bond angles

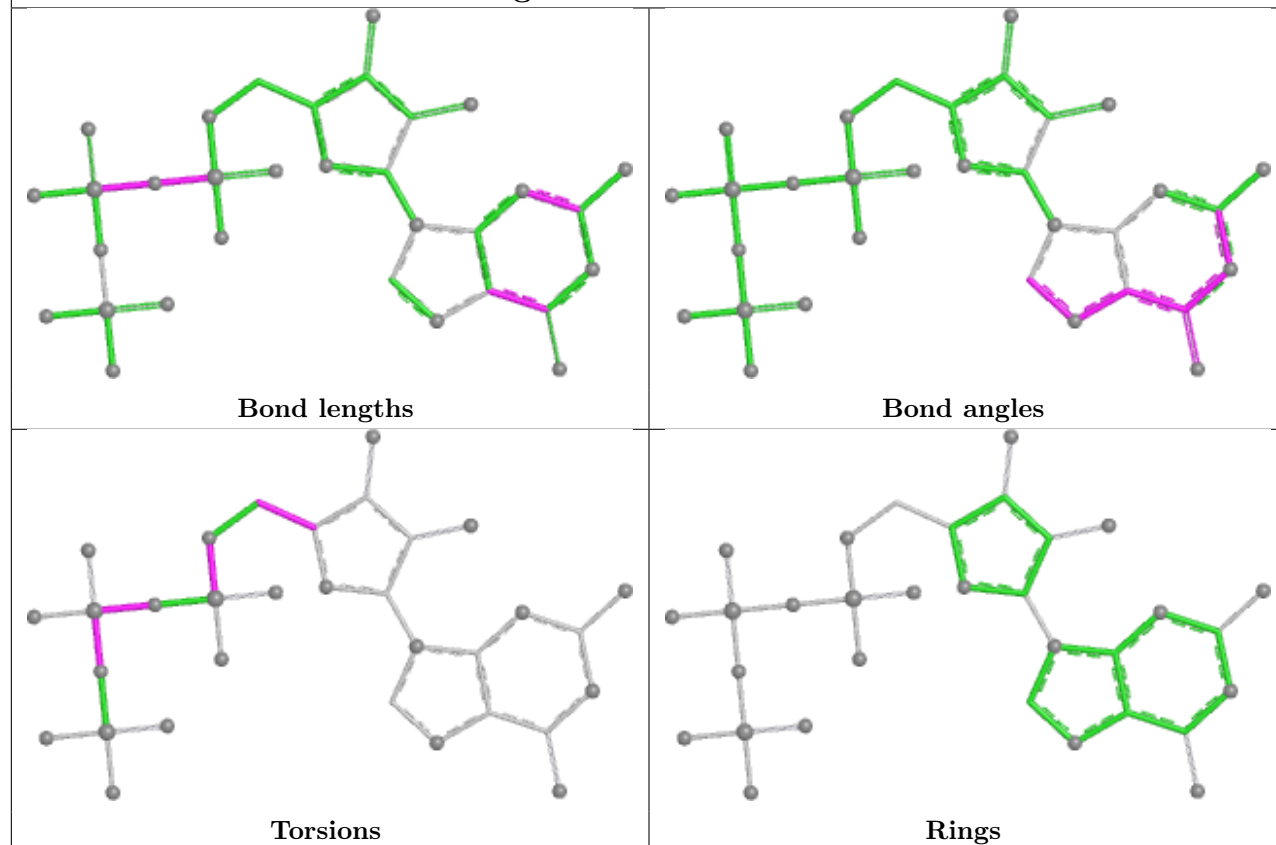


Torsions

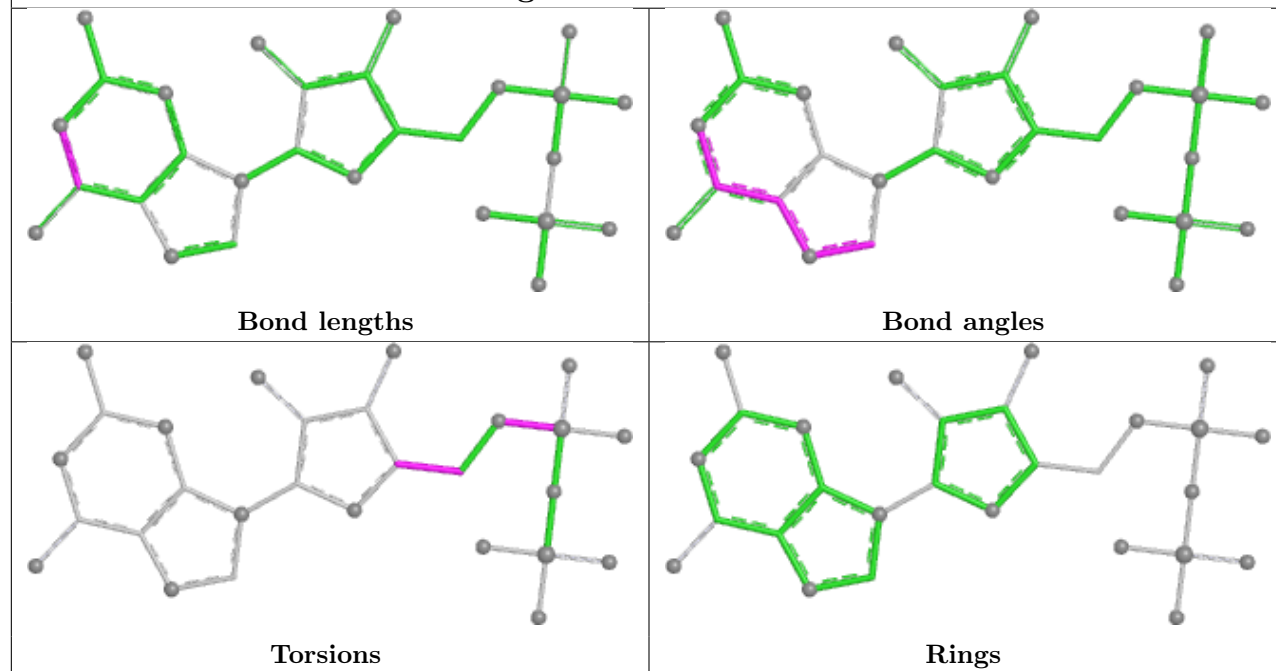


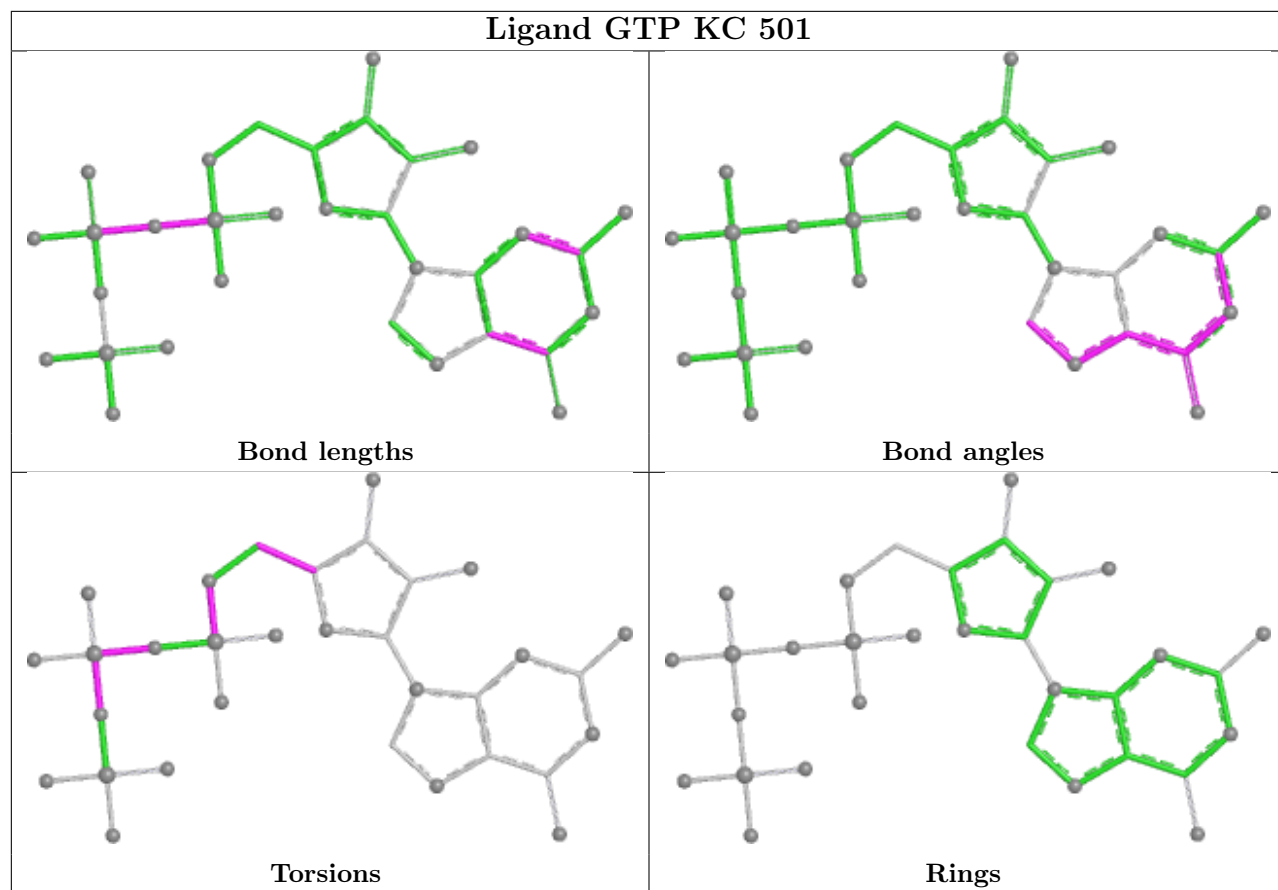
Rings

## Ligand GTP MC 501

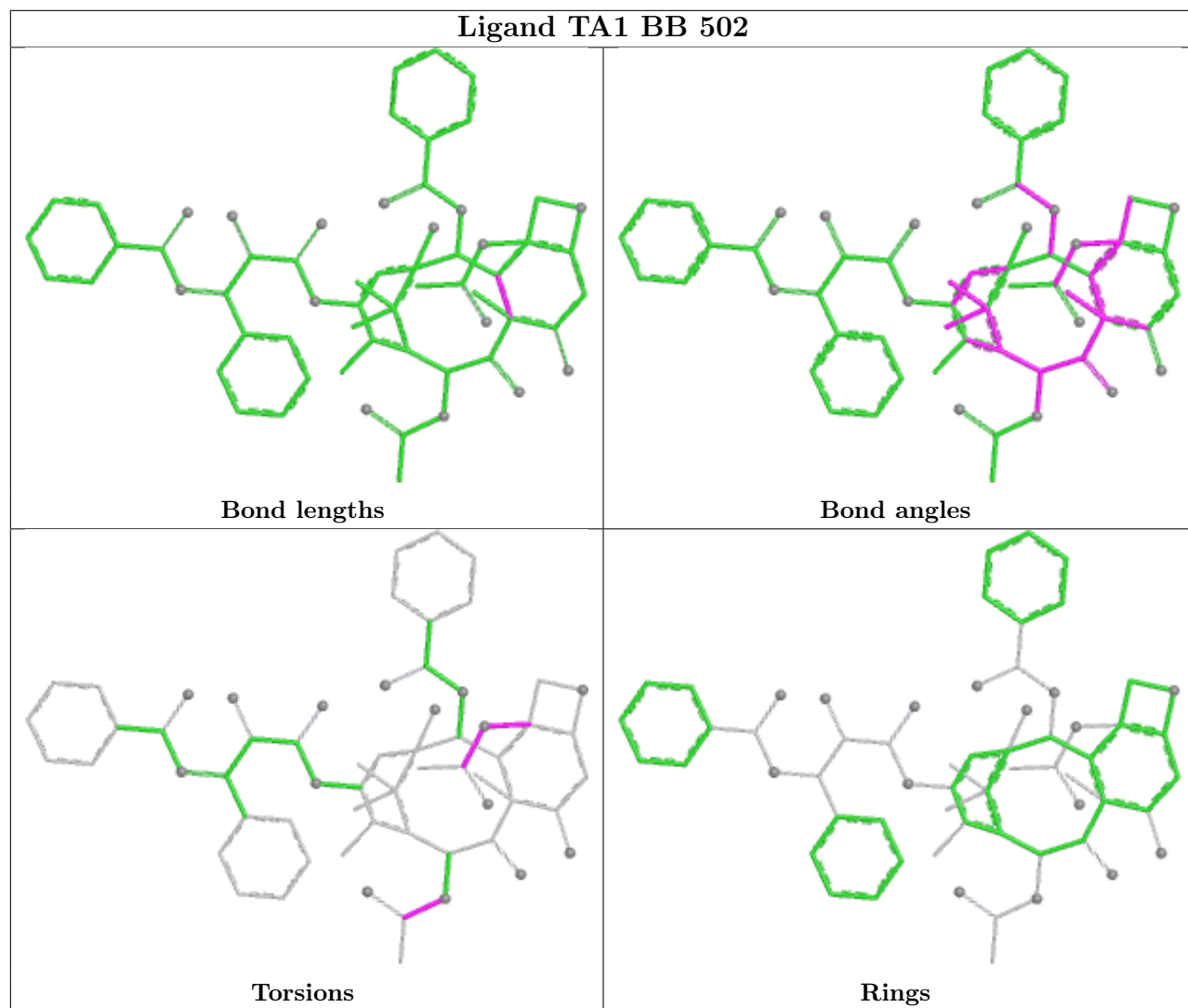


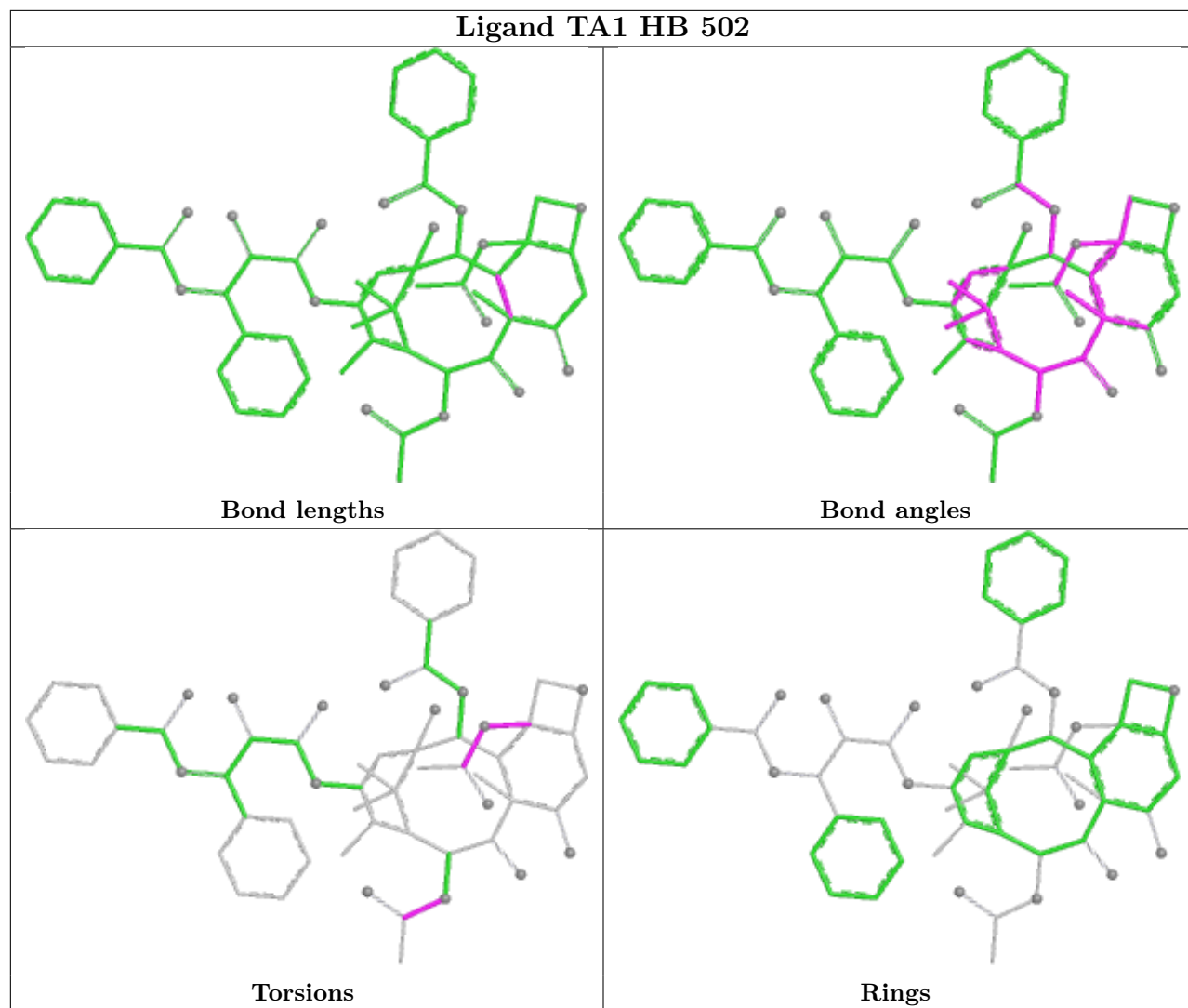
## Ligand GDP FD 501

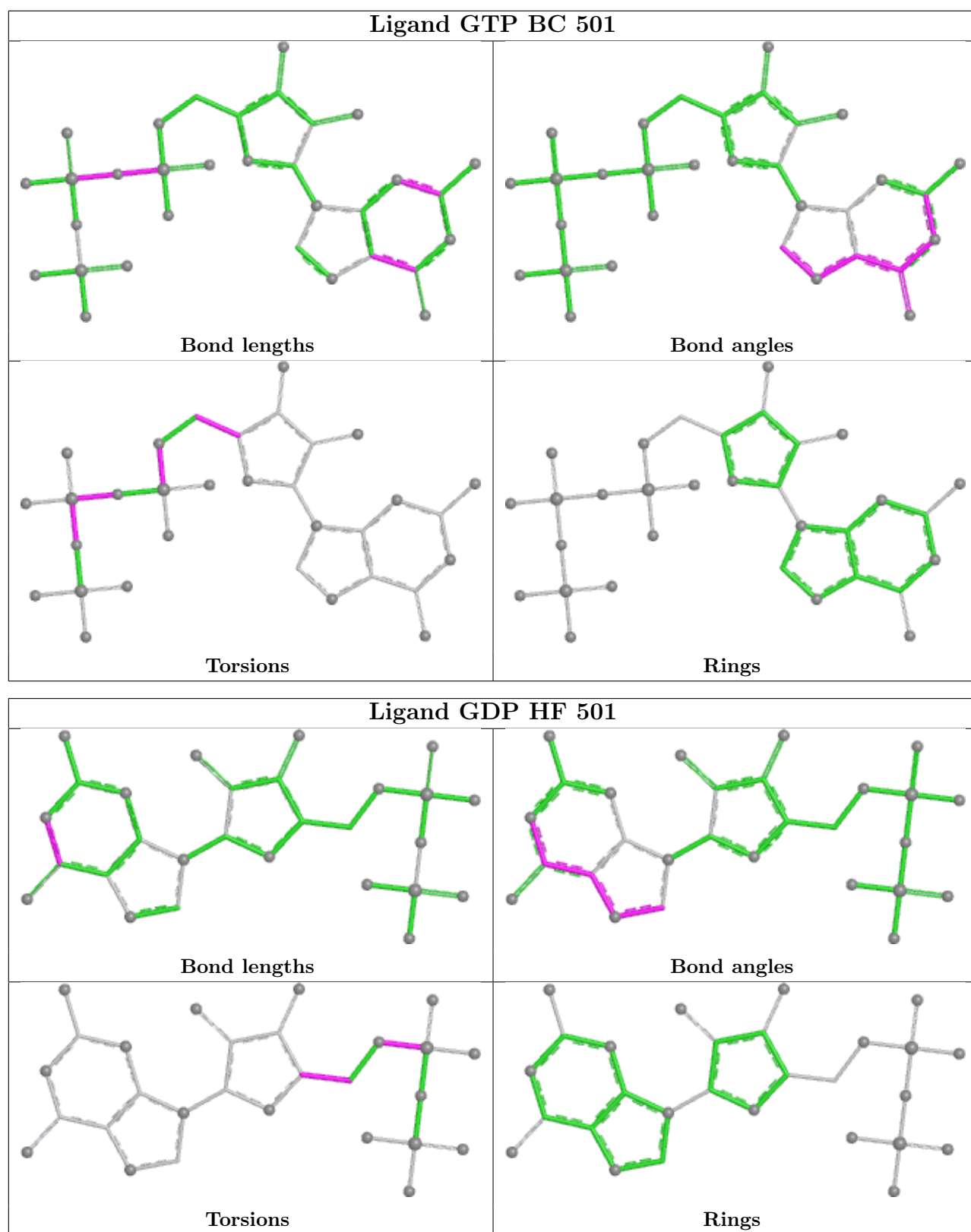












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

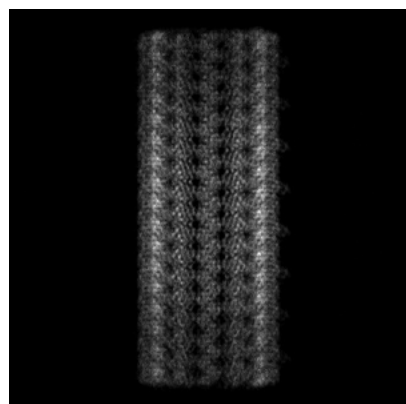
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-49760. These allow visual inspection of the internal detail of the map and identification of artifacts.

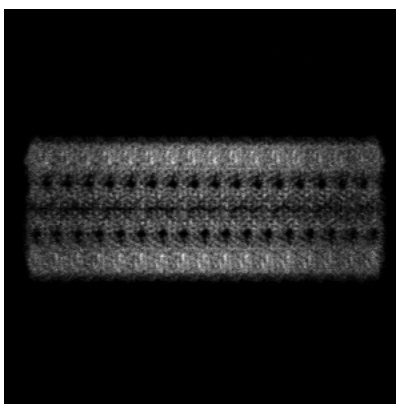
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

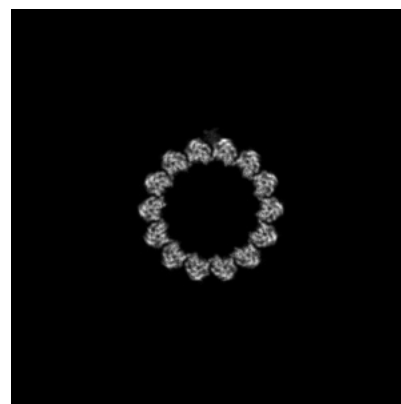
#### 6.1.1 Primary map



X

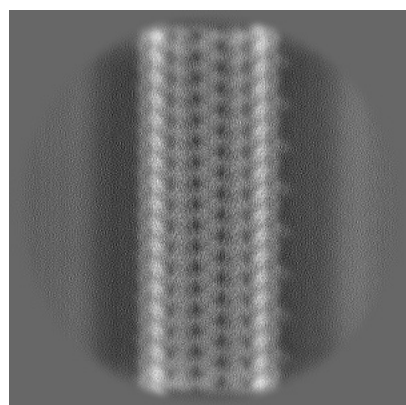


Y

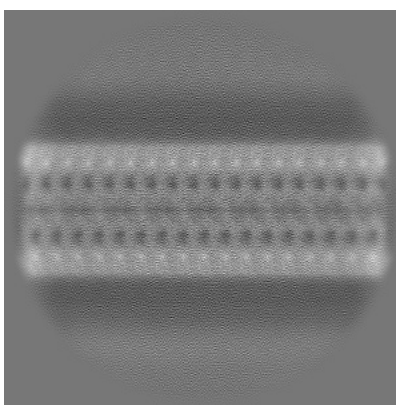


Z

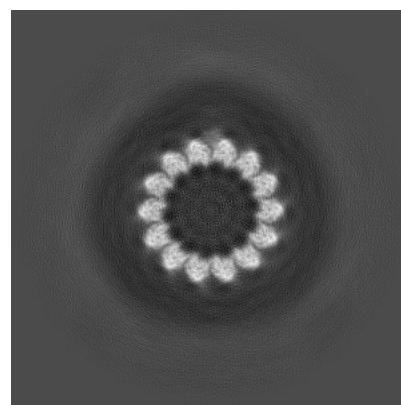
#### 6.1.2 Raw map



X



Y

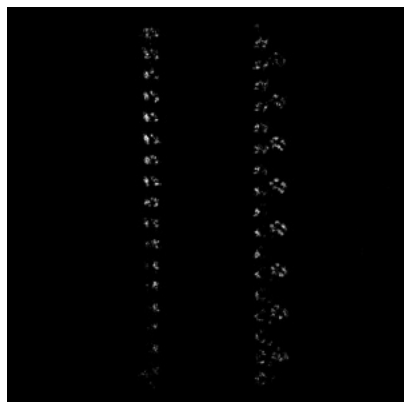


Z

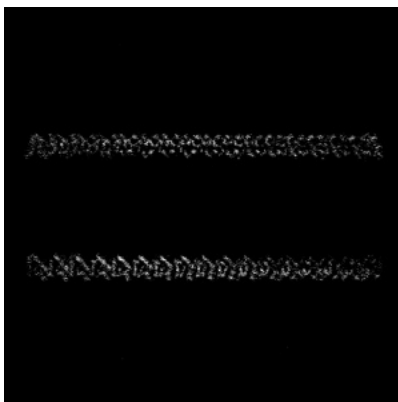
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

### 6.2.1 Primary map



X Index: 189

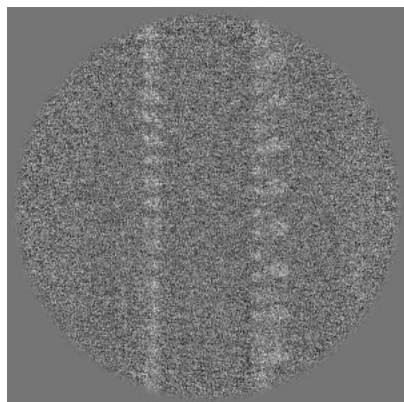


Y Index: 189

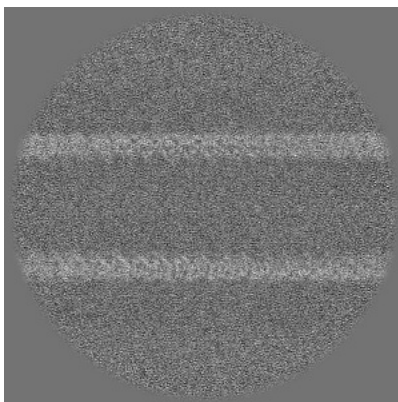


Z Index: 189

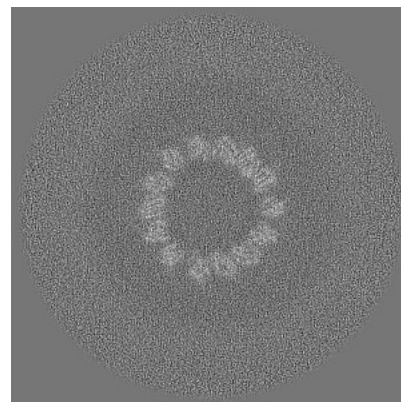
### 6.2.2 Raw map



X Index: 189



Y Index: 189

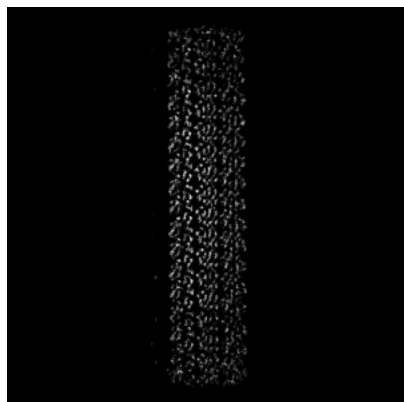


Z Index: 189

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

## 6.3 Largest variance slices [i](#)

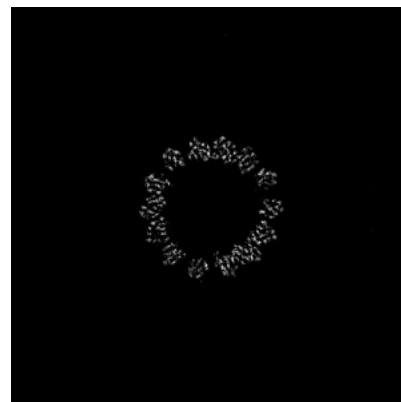
### 6.3.1 Primary map



X Index: 239

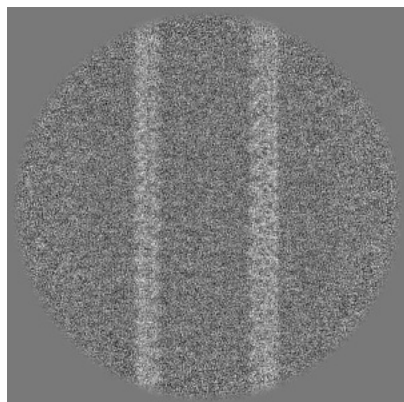


Y Index: 239

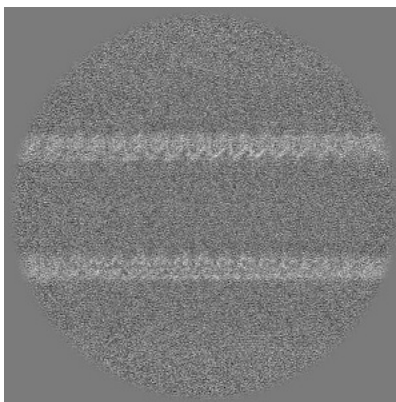


Z Index: 147

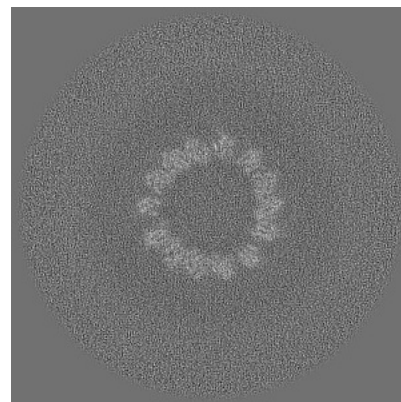
### 6.3.2 Raw map



X Index: 202



Y Index: 186



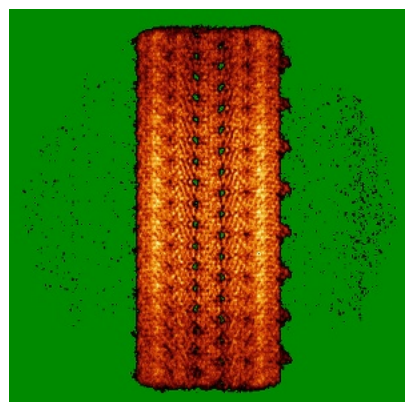
Z Index: 198

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

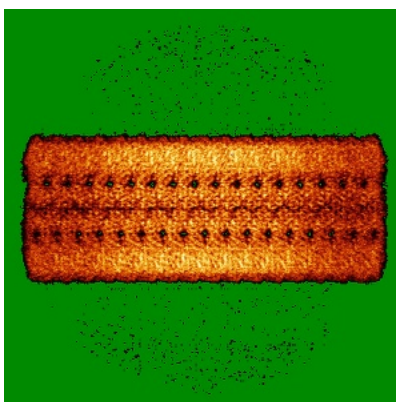


## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

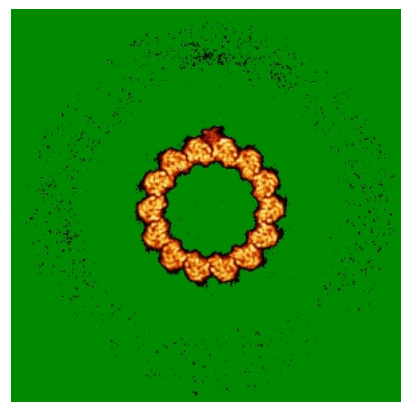
### 6.4.1 Primary map



X

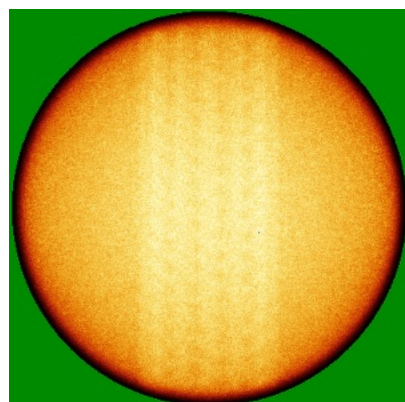


Y

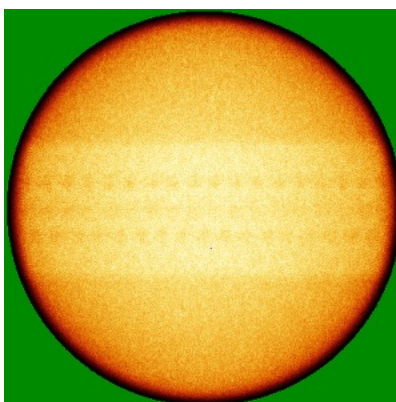


Z

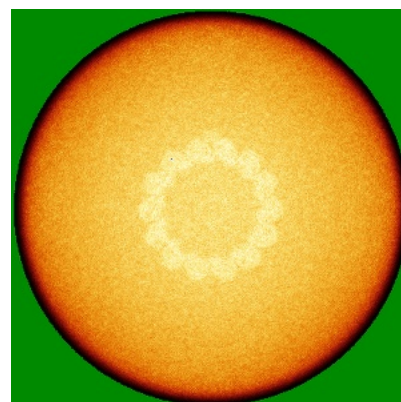
### 6.4.2 Raw map



X



Y

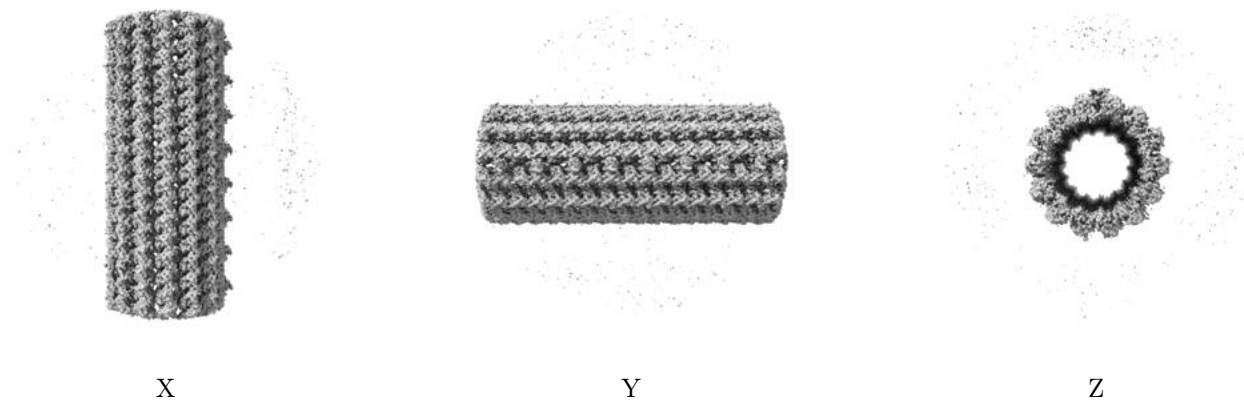


Z

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

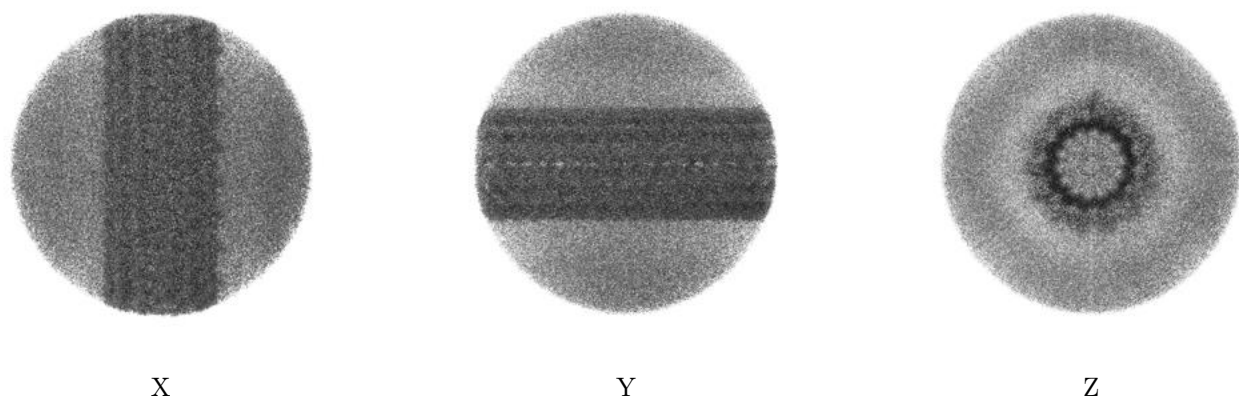
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0398. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

### 6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

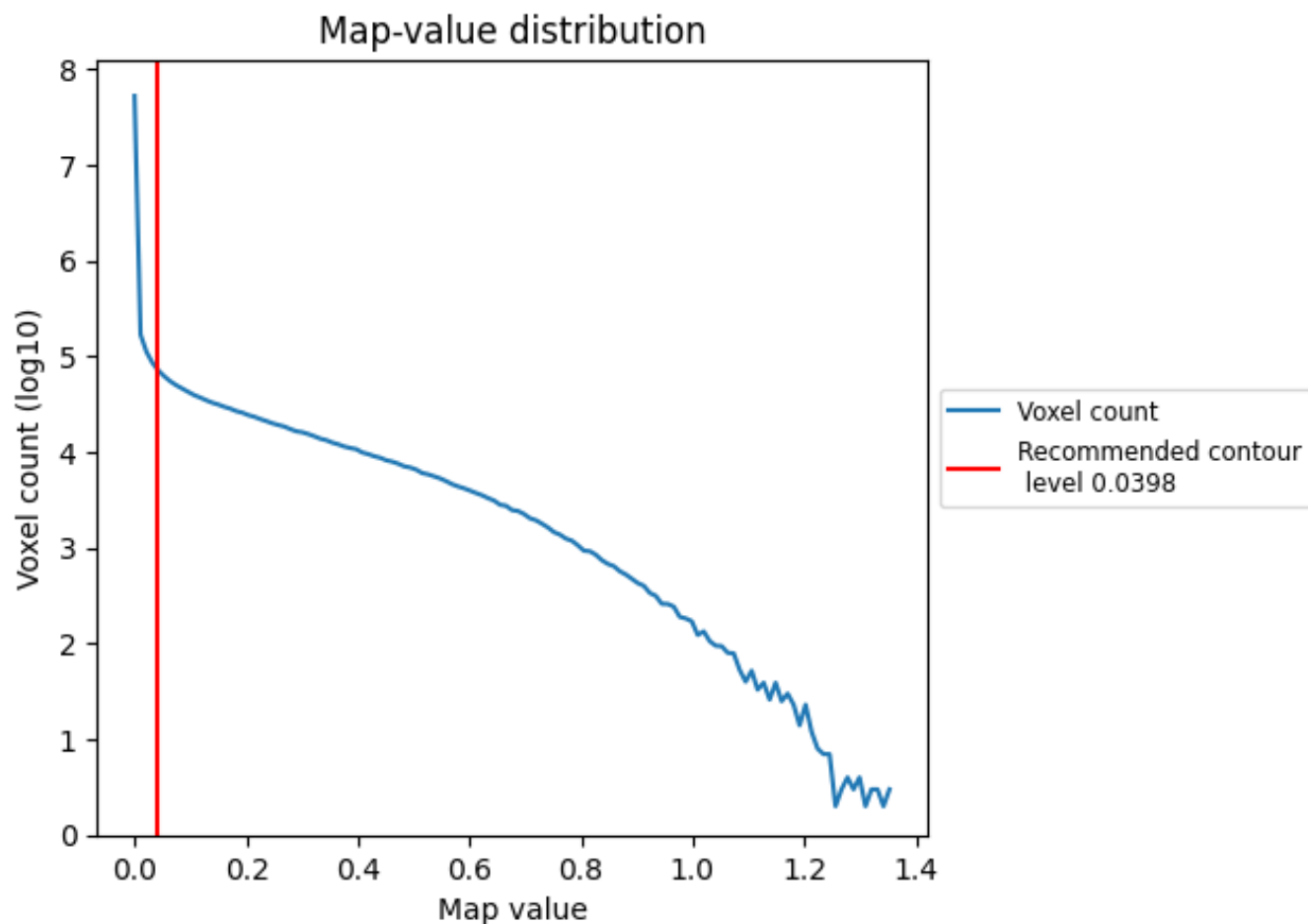
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

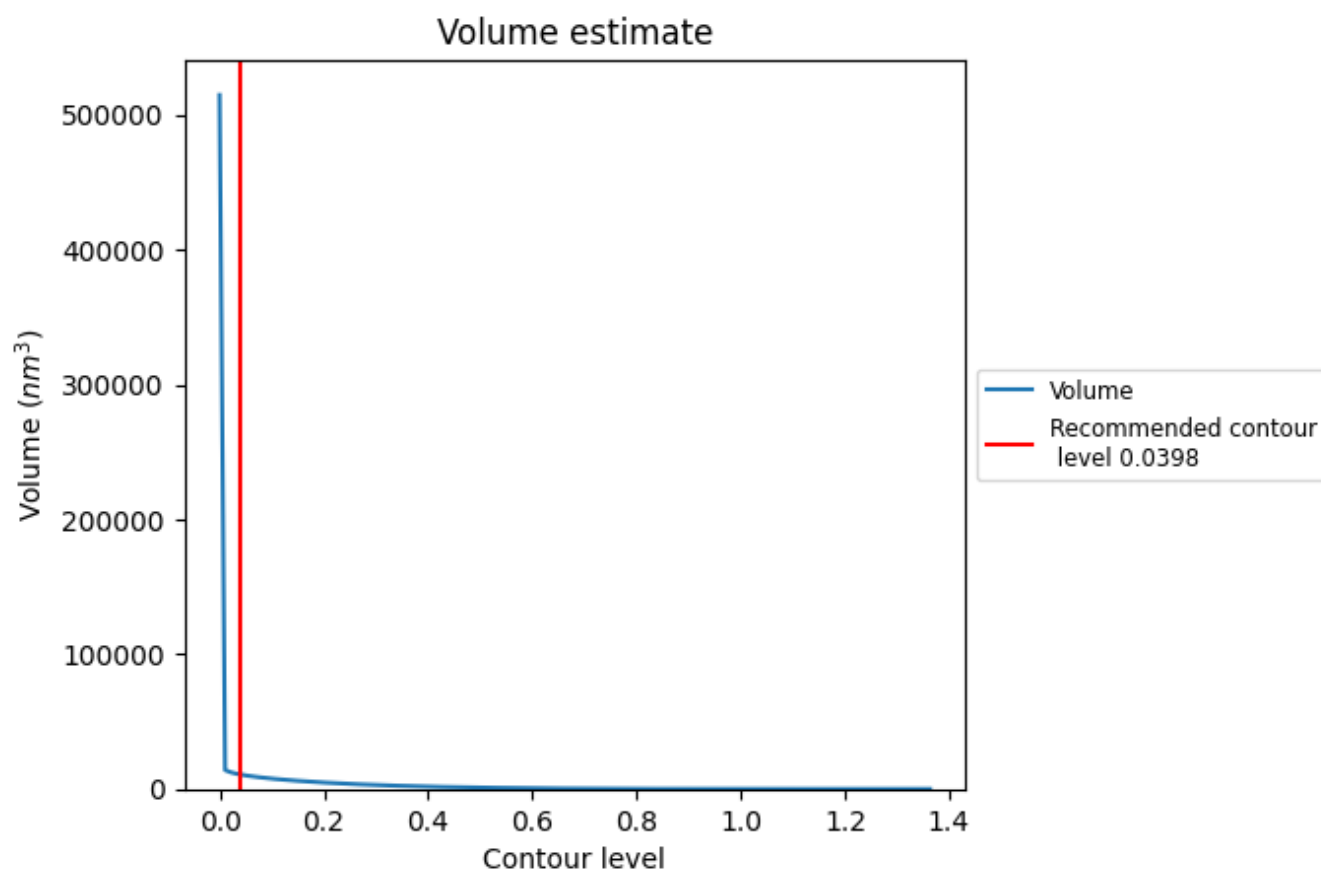
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



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

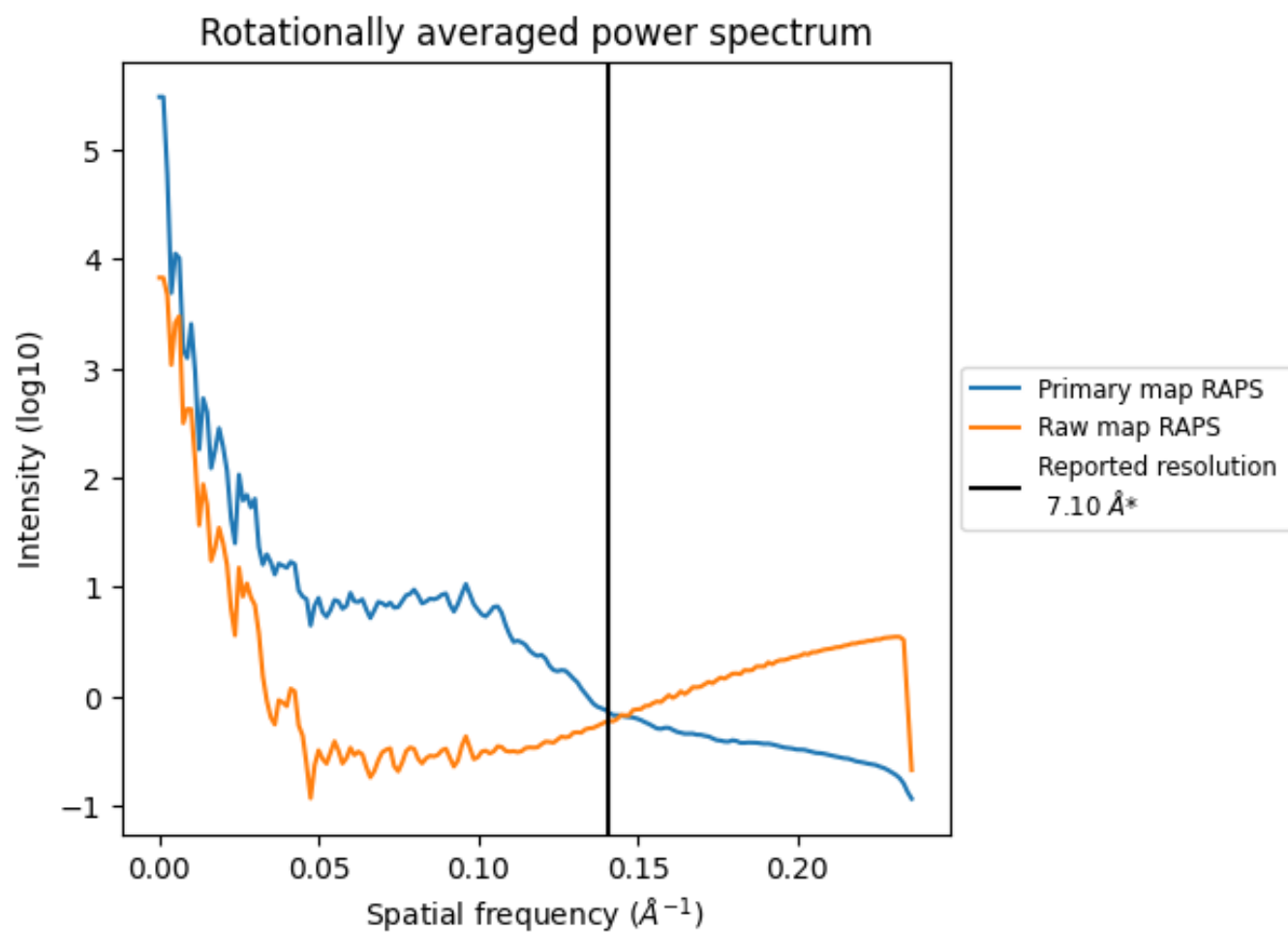
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 10696  $\text{nm}^3$ ; this corresponds to an approximate mass of 9662 kDa.

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

### 7.3 Rotationally averaged power spectrum ⓘ

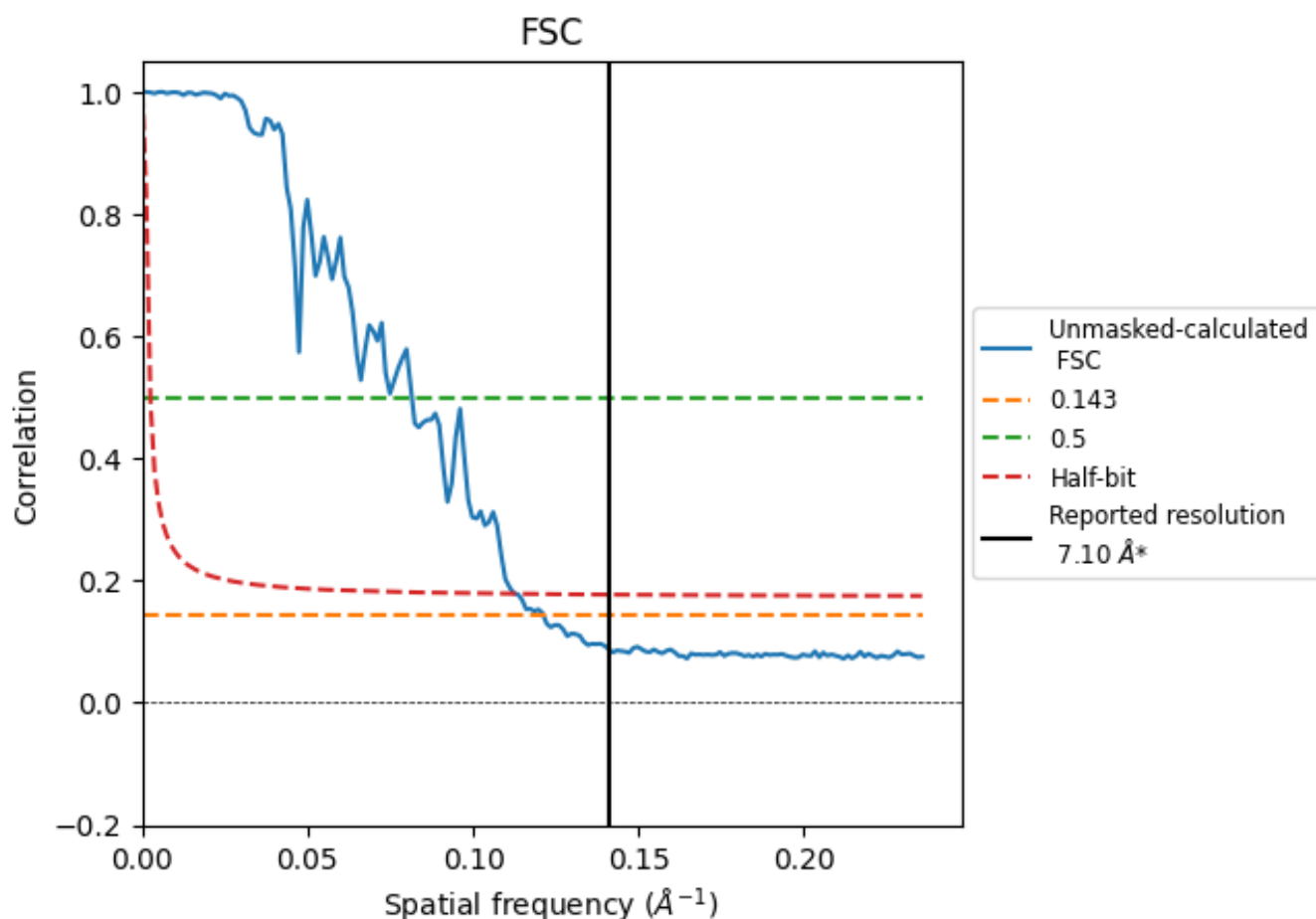


\*Reported resolution corresponds to spatial frequency of 0.141 Å<sup>-1</sup>

## 8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of 0.141 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.10	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	8.24	12.27	8.85

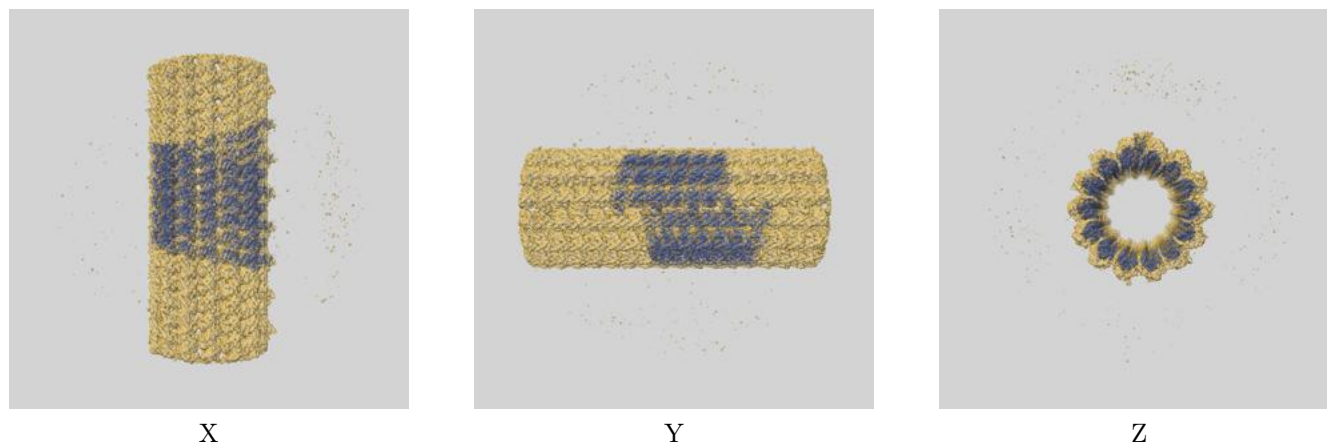
\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 8.24 differs from the reported value 7.1 by more than 10 %



## 9 Map-model fit [i](#)

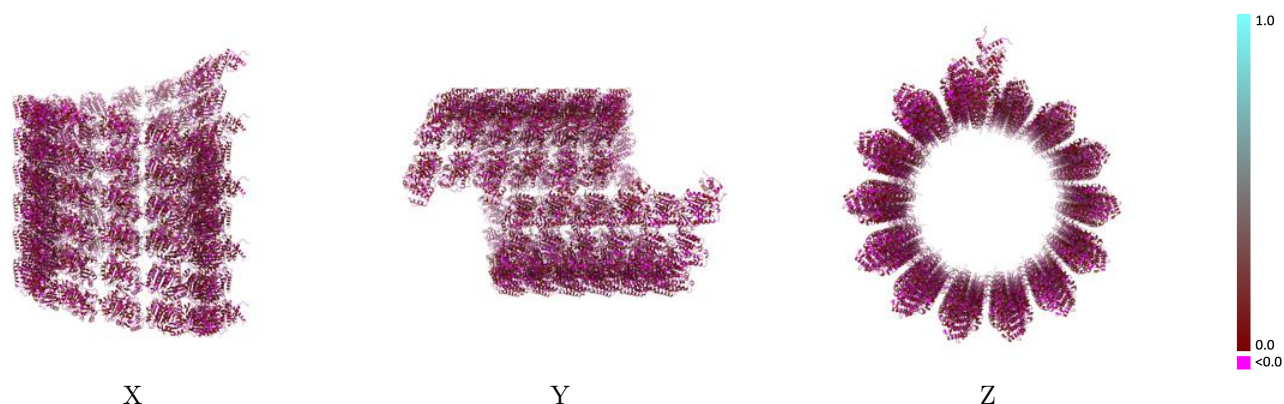
This section contains information regarding the fit between EMDB map EMD-49760 and PDB model 9NTM. Per-residue inclusion information can be found in section [3](#) on page [25](#).

### 9.1 Map-model overlay [i](#)



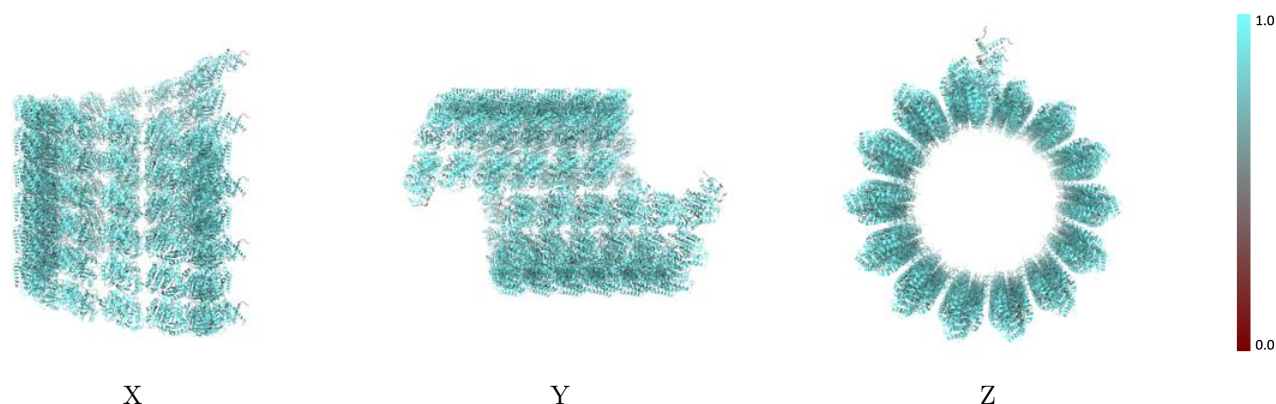
The images above show the 3D surface view of the map at the recommended contour level 0.0398 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



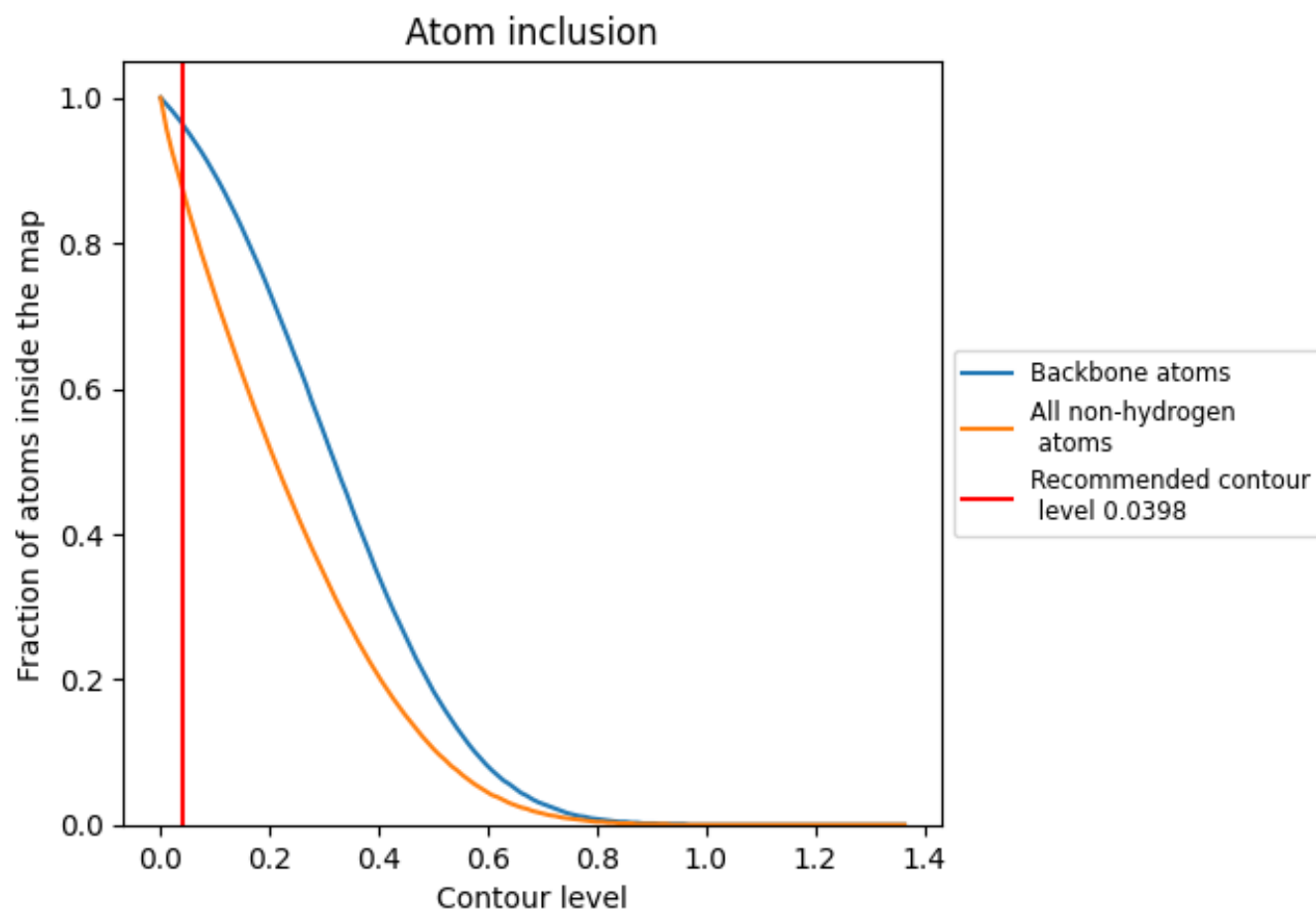
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0398).







































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 96% of all backbone atoms, 87% 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 (0.0398) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8740	 0.0900
1A	 0.7570	 0.0780
1B	 0.7870	 0.0880
1C	 0.7930	 0.0880
1D	 0.8010	 0.0970
1E	 0.6550	 0.0560
AA	 0.8750	 0.0950
AB	 0.8960	 0.1120
AC	 0.8940	 0.1050
AD	 0.9020	 0.1170
AE	 0.8890	 0.1000
AF	 0.8960	 0.1040
BA	 0.8660	 0.0900
BB	 0.8990	 0.0970
BC	 0.8960	 0.0990
BD	 0.8940	 0.0970
BE	 0.8930	 0.1100
BF	 0.8880	 0.0930
CA	 0.8810	 0.0930
CB	 0.9020	 0.1010
CC	 0.8940	 0.1070
CD	 0.9010	 0.0930
CE	 0.8980	 0.1140
CF	 0.8960	 0.0990
DA	 0.8840	 0.0930
DB	 0.8850	 0.0930
DC	 0.8920	 0.0980
DD	 0.8900	 0.1050
DE	 0.8920	 0.0910
DF	 0.8680	 0.0880
EA	 0.8750	 0.0890
EB	 0.8730	 0.0840
EC	 0.8820	 0.0850
ED	 0.8830	 0.0930
EE	 0.8870	 0.0930





























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Chain	Atom inclusion	Q-score
EF	 0.8690	 0.0780
FA	 0.8740	 0.0760
FB	 0.8740	 0.0750
FC	 0.8690	 0.0800
FD	 0.8850	 0.0830
FE	 0.8640	 0.0740
FF	 0.8500	 0.0690
GA	 0.8610	 0.0810
GB	 0.8850	 0.0930
GC	 0.8700	 0.0850
GD	 0.8790	 0.0920
GE	 0.8520	 0.0730
GF	 0.8440	 0.0820
HA	 0.8680	 0.0970
HB	 0.8850	 0.0930
HC	 0.8770	 0.1030
HD	 0.8770	 0.0890
HE	 0.8770	 0.0980
HF	 0.8440	 0.0810
IA	 0.8680	 0.0830
IB	 0.8750	 0.0920
IC	 0.8730	 0.0830
ID	 0.8730	 0.0870
IE	 0.8530	 0.0780
IF	 0.8430	 0.0700
JA	 0.8840	 0.0910
JB	 0.8960	 0.0920
JC	 0.8750	 0.0890
JD	 0.8670	 0.0830
JE	 0.8670	 0.0850
JF	 0.8500	 0.0650
KA	 0.8850	 0.1050
KB	 0.8890	 0.0960
KC	 0.8820	 0.0960
KD	 0.8680	 0.0840
KE	 0.8640	 0.0910
KF	 0.8440	 0.0820
LA	 0.8840	 0.0980
LB	 0.8860	 0.1020
LC	 0.8740	 0.0900
LD	 0.8790	 0.0940
LE	 0.8530	 0.0810

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Chain	Atom inclusion	Q-score
LF	 0.8460	 0.0760
MA	 0.8680	 0.0870
MB	 0.8810	 0.0800
MC	 0.8750	 0.0910
MD	 0.8640	 0.0860
ME	 0.8500	 0.0800
MF	 0.8200	 0.0560
NA	 0.8810	 0.1050
NB	 0.8970	 0.1050
NC	 0.8760	 0.1010
ND	 0.8780	 0.0920
NE	 0.8670	 0.0840
NF	 0.8360	 0.0750